



TOWN OF RAYMOND

Planning Board Agenda

June 8, 2023

7 p.m. - Raymond High School
Media Center - 45 Harriman Hill

Public Announcement

*If this meeting is canceled or postponed for any reason the information can be found on our website, posted at Town Hall, Facebook Notification, and RCTV. **

1. Pledge of Allegiance

2. Public Hearing-

Application #2022-013- Earth Excavation Permit-Severino/Candia South

Branch Brook: An application for an Earth Excavation Permit has been submitted by Candia South Branch Brook, LLC. The applicant is proposing the permitting of an existing excavation operation. The property is identified as Raymond Tax Map 38, Lot 34; 263 NH Route 27. (cont. 11/03/22, 11/10/22, 12/15/22, 02/16/23, and 05/04/23)

3. Public Comment

4. Approval of Minutes

- 05/25/2023

5. Other Business

- ◆ Staff Updates-
- ◆ Board Member Updates
- ◆ Any other business brought before the board-

* Note: If you require personal assistance for audio, visual or other special aid, please contact the Selectmen's Office at least 72 hours prior to the meeting. If this meeting is postponed for any reason, it will be held at a time TBD.



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6. Adjournment (NO LATER THAN 10:00 P.M.)

Planning Board 2023 Submittal and Meeting Dates

Submittal Deadline for Completed Application & Materials	Planning Board Meeting Dates (1st & 3rd Thursdays of the Month)
ADDED MEETING	June 8, 2023 2022-013 Severino Excavation
May 18, 2023	June 15, 2023 2022-015 White Rock LLA & 2022-008 Onyx Warehouse
June 01, 2023	July 06, 2023 2023-003 Elated Canine LLC.
June 15, 2023	July 20, 2023
July 06, 2023	August 03, 2023
July 20, 2023	August 17, 2023
August 03, 2023	September 07, 2023
August 17, 2023	September 21, 2023
September 07, 2023	October 05, 2023
September 21, 2023	October 19, 2023
October 05, 2023	November 02, 2023
October 19, 2023	November 16, 2023
November 02, 2023	December 07, 2023
November 16, 2023	December 21, 2023

* Note: If you require personal assistance for audio, visual or other special aid, please contact the Selectmen's Office at least 72 hours prior to the meeting. If this meeting is postponed for any reason, it will be held at a time TBD.

May 25, 2023
Project No. 1205-687

Thomas Severino, V.P.
Severino Trucking Company, Inc.
P.O. Box 202
512 Raymond Road
Candia, NH 03034

Re: Raymond Dennehy Pit
Tax Map 38, Lot 34: 22.37-Acres
Hydrogeologic and Environmental Evaluation

Dear Mr. Severino:

Enviro North American Consulting, LLC (ENAC) has prepared the enclosed Hydrogeologic and Environmental Evaluation for the above referenced property (the Property) noted as Tax Map 38, Lot 34 located in Raymond, NH. The Hydrogeologic and Environmental Evaluation was prepared for Severino Trucking Company, Inc. (Severino) and conducted under an approved work plan authorization. The enclosed evaluation was requested by the Town of Raymond's Planning Board as part of the application process for renewal of an excavation permit.

1.0 GROUNDWATER MONITORING WELL INSTALLATIONS

Four (4) groundwater monitoring wells were installed at the Property on April 6, 2023 by S.W. Cole Engineering, Inc. Soil boring and monitoring well construction logs were prepared for the 4-new well installations by S.W. Cole, and are attached to this report. As shown on attached boring logs, monitoring wells were installed to varying depths into the saturated unconsolidated fine sand and silt. The saturated unconsolidated sands were penetrated by advancing 4.5-inch diameter hollow stem augers (HSA) to penetrate the underlying saturated stratigraphy. Each of the four soil borings were finished as two-inch diameter polyvinyl chloride (PVC) monitoring wells. The PVC slotted well screen construction was designed to intercept the observed shallow water table. Filter sand was placed around the slotted screen well annulus, with placement of bentonite chips at depths above the slotted PVC well screen as a seal to protect groundwater from surface water runoff. The PVC monitoring wells were installed approximately 3-feet above grade with a protective stand-pipe road box with lock cover to prevent unauthorized access.

1.1 Monitoring Well Development and Sampling

After monitoring well installation, the four well network was developed by ENAC personnel on April 15, 2023. Well development included the use of dedicated polyethylene bailers for each well, where the bailer was allowed to sink to the bottom of PVC well. Each well bailer was deployed and recovered allowing removal of accumulated fine sands and silt mixed with ground water. Well development included removal of a minimum of 5-well volumes consistent with standard industry practices. A minimum of 10-gallons of well water was removed from each monitoring well during the phase of well development.

1.1.1 Groundwater Sampling April 20, 2023

After a two-week stabilization period following the well installations, groundwater samples were collected from the existing groundwater monitoring well network: MW-1, MW-2, MW-3 and MW-4 on April 20, 2023. Prior to water sample collection into laboratory prepared containers, static water levels were measured from the four-network monitoring wells using an electronic water level indicator. A minimum of three well volumes were purged prior to sample collection using dedicated polyethylene bailers. Water samples were collected by dedicated bailer and decanted into sampling containers for laboratory analyses of volatile organic compounds (VOCs) following EPA Method 8260C and polycyclic aromatic hydrocarbons (PAHs) following EPA Method 8270D. Upon collection the water samples were placed inside a cooler with ice and transported to a New England Laboratory Accredited Program (NELAP) and NH certified laboratory for the water analyses. Water samples were collected raw and non-filtered. The summary of VOC and PAH water sampling results are presented as Table 1.

1.1.2 Groundwater Sampling May 9, 2023

A second day of groundwater sampling was conducted at the Property by ENAC representatives on May 9, 2023. Prior to water sample collection into laboratory prepared containers, static water levels were measured from the four-network monitoring wells using an electronic water level indicator. A minimum of three-well volumes of water were purged prior to sample collection using dedicated polyethylene bailers. Water samples were collected by dedicated bailer and decanted into sampling containers for laboratory analyses of Per- and Polyfluoroalkyl Substances (PFAS) following EPA Method 537.1, 8-Resource Conservation and Recovery Act Metals (RCRA-8 Metals) following EPA Method 200.8, and for blasting series compounds including Nitrite, Nitrate, Ammonia, and Total Phosphorus following appropriate EPA Methods of detection. ENAC notes that water samples collected for RCRA-8 metals were field filtered with a 0.45-micron filter prior to placement in laboratory prepared water sample containers. The

remaining water samples were collected raw and non-filtered. The summary of PFAS, RCRA-8 metals, and blasting series compounds are presented as Table 1.

1.2 Groundwater Sampling Results

1.2.1 Table 1 – VOCs and PAHs

As shown in Table 1, concentrations of VOCs and PAHs were detected below applicable NHDES Ambient Groundwater Quality Standards (AGQS) or below laboratory reporting limits with the exception of one PAH compound, fluoranthene. Fluoranthene was detected slightly above the laboratory detection limit at 0.12-parts per billion (ppb), equivalent to micrograms per liter ($\mu\text{g/L}$). ENAC notes the laboratory detection limit for individual PAH compounds is 0.10-ppb and NHDES Ambient Groundwater Quality Standard (AGQS) for fluoranthene is 280-ppb. The AGQS is equivalent to the drinking water standards adopted by the NHDES for groundwater.

1.2.2 Table 1 – RCRA 8 Metals and Blasting Series Compounds

Laboratory results of RCRA-8 metals from water samples collected from the 4-monitoring well network included detections of arsenic and barium at low concentrations below the applicable AGQS, or drinking water standards established by the NHDES. In some cases, arsenic from MW-1 and MW-4 was not detected above laboratory reporting limits. The remaining metals cadmium, chromium, lead, mercury, selenium and silver were not detected above the laboratory reporting limits from the 4-monitoring well samples.

Laboratory results for the blasting series are presented in Table 1 and discussed below.

Nitrate

Nitrate as Nitrogen (N) was detected from a water sample collected from MW-3. Nitrate was not detected from the remaining monitoring well water samples. The detection of Nitrate from MW-3 was less than the AGQS.

Nitrite

Nitrite as N was not detected above the laboratory reporting limits in the water samples collected from the four monitoring well network.

Ammonia

Ammonia as N was detected from MW-3. Ammonia was not detected from the remaining monitoring well water samples. There is no current AGQS for ammonia regulated by the NHDES.

Total Phosphorus

Total phosphorus was detected from each of the water samples collected from the network of monitoring wells. There is no current AGQS for total phosphorus regulated by the NHDES. Monitoring well water sample MW-2 had a significant concentration elevated from the remaining monitoring well samples. This may be associated with a former septic or leach field sewage disposal system historically located in this area of the Property. ENAC notes this area of the Property contained building structures which have been razed and removed.

1.2.3 Groundwater Elevations and Inferred Flow

Severino personnel conducted a site survey of the newly installed network of four monitoring wells. Table 2 presents the top of PVC well survey elevations, depth to groundwater measured on April 20 and May 9, 2023 and the resulting April groundwater contour elevations. The attached Site Plan shows the depicted groundwater elevation contours and inferred groundwater flow direction. As shown on the attached Site Plan, groundwater flow is directed to the east-southeast with a radial component.

2.0 ENVIRONMENTAL SOIL EVALUATION

During property visits in April and May 2023, ENAC personnel observed stockpiles of reclaimed asphalt, concrete, and loam. Based on visual and olfactory observations, it did not appear existing stockpiles are significant sources for subsurface impacts to soil or groundwater quality. The Property has historically been used as an excavation source for sand and as an aggregate materials storage yard for nearby Severino projects.

2.1 Work Plan

As part of the excavation renewal permit application, Severino was asked by the Town of Raymond's Planning Board to provide soil analytical results from their onsite operations. A work plan was discussed with Severino to conduct the following soil testing:

1. Excavation at the toe of slope of existing reclaimed asphalt pile to expose underlying native sands, collect 3-discrete soil samples from native sands for analyses of RCRA-8

metals, PAHs, VOCs, and total petroleum hydrocarbons diesel range organics (TPH-DRO).

2. Composite soil samples collected from the existing reclaimed asphalt stockpile and loam stockpiles for testing of RCRA-8 metals, PAHs, VOCs, and TPH-DRO.

2.2 Soil Sample Collection

ENAC representatives conducted a Property visit on May 9, 2023 to conduct the soil sample collection outlined as the work plan.

Discrete Soil Samples

Three (3) discrete soil samples were collected from test pits advanced at the toe of slope of the existing reclaimed asphalt stockpile. Native sands were exposed beneath the active pit floor and discrete soil samples were collected from 3-test pit locations at depths ranging from 16- to 24-inches below grade. Discrete soil samples collected from toe of slope at subsurface locations are labeled as TS-1, TS-2, and TS-3 and shown on the attached Site Plan.

Composite Soil Samples

Two (2) composite soil samples were collected from the existing reclaimed asphalt stockpile (CS-1) and from two loam piles (CS-2). Composite soil samples were collected from 8-discrete locations at each stockpile, where soil from the stockpiles was exposed with a spade shovel, a soil sample collected and placed on polyvinyl chloride sheeting then mixed with a hand spade to create a representative composite soil sample.

Discrete and composite soil samples were collected with use of shovel and stainless-steel spade and samples placed in laboratory prepared containers then directly into coolers with ice. Composite and discrete soil samples were submitted to a NH certified laboratory for analyses following EPA Methods as listed: VOCs by method 8260, PAHs by method 8270, RCRA-8 metals by method 6020, and TPH-DRO by method 8015.

2.2.1 Table 3 Soil Analytical Summary

Laboratory soil analytical results for the discrete and composite soil samples are presented in attached Table 3.

RCRA-8 Metals

Arsenic was detected in the 3 discrete soil samples TS-1, TS-2 and TS-3 collected from test pits advanced to expose subsurface sand beneath the pit floor at depths between 16- and 24-inches. Arsenic was also detected from two composite soil samples collected from the reclaimed asphalt and loam stockpiles. The arsenic concentrations detected in 3-discrete and 1-composite soil samples exceed the NHDES Soil Remediation Standard (SRS) of 11 mg/kg equivalent to parts

per million (ppm). Remaining RCRA-8 metals were not detected in soil samples at concentrations above SRS.

PAHs and VOCs

Concentrations of individual PAHs and VOCs were detected from the composite soil sample CS-1 collected from the reclaimed asphalt stockpile. The VOC trichloroethene (TCE) was detected from CS-1 at a concentration below SRS. Two individual PAHs, benzo(a)pyrene and benzo(b)fluoranthene were detected from composite soil sample CS-1 above SRS, respectively. The presence of PAHs and VOCs were not detected from the 3-discrete soil samples TS-1, TS-2, or TS-3 or composite sample CS-2 (loam) above laboratory reporting limits (method detection limits).

TPH – DRO

Concentrations of TPH-DRO were not detected above laboratory reporting limits from the 3-discrete and 2-composite soil samples. ENAC notes the SRS for TPH is 10,000-ppm.

2.2.2 Table 3 - Background Arsenic Soil Samples

Due to detected arsenic in underlying native sand from the 3-subsurface discrete soil samples collected from test pits excavated beneath the toe of slope of reclaimed asphalt stockpile (TS-1, TS-2, and TS-3), ENAC revised the work plan to include soil sample collection from 8-additional locations across the Property at undisturbed areas. Laboratory results of background soil samples will help evaluate the arsenic in native soils at the Property.

ENAC representatives visited the Property on May 22, 2023 to collect additional discrete soil samples at undisturbed areas of the Property. Sampling tools were decontaminated prior to each sampling location by washing with analconox-based detergent mixed with water and rinsed with separate deionized water.

The attached Site Plan shows 8-additional soil sample locations (BKG-1 through BKG-8) where discrete soil samples were collected for laboratory analyses of arsenic only. Discrete soil samples BKG-1, BKG-2, BKG-3, and BKG-7 were collected from above the active pit floor and within the exposed sand embankment. The exposed embankment is the visual limit of past excavation and onsite construction activity. Steel hand augering was advanced approximately 24-inches horizontally into the undisturbed sand embankment locations to collect a representative discrete soil sample for laboratory analysis of arsenic.

Discrete soil samples were also collected by advancement of a hand auger to vertical depths advanced below grade at locations BKG-4 (28-inches), BKG-5 (16-inches), BKG-6 (28-inches), and BKG-8 (13-inches). These 4-soil samples were collected from areas at, or beyond the limits of the disturbed area of the Property.

Background Arsenic Concentrations

Table 3 presents the results of background concentrations of arsenic detected from the additional 8-locations at the Property. Background arsenic concentrations range from 6.4 to 41 milligrams per kilogram (mg/kg) equivalent to parts per million (ppm). The background discrete soil samples collected and analyzed for arsenic support elevated background concentrations persist in shallow native underlying sands with presence of gravel.

3.0 BACKGROUND METALS STUDY NEW HAMPSHIRE SOILS

ENAC reviewed information presented in the study Development of Background Metals Concentrations Database for New Hampshire Soils / Background Metals Concentration Study New Hampshire Soils, dated November 19, 1998, and prepared by Sanborn, Head & Associates Consulting Engineers & Scientists (SHA)¹. The SHA study was prepared for the New Hampshire Department of Environmental Services (NHDES). The purpose of the study was to assist the NHDES in further developing the database of background metals concentrations in New Hampshire soils. The focus of the study was to evaluate metals concentrations in urban developed areas compared to non-urban areas of the State.

Section 2.0 (page 2) of the study indicates that existing soil data (pre-1998) collected from the southeastern portion of the State may exhibit relatively high levels of several metals including arsenic. The SHA study describes collection of additional soil data during the study at locations across the State where composite soil samples were collected at relatively shallow soil depths and analyzed for the presence of metals including arsenic. Section 4.1 (page 5) of the SHA study indicates detected arsenic concentrations in soils from urban locations throughout NH range from 5.4 to 21 milligrams per kilogram (mg/kg). The SHA study sampling indicates that the 95th percentile for arsenic was determined to be 19.9 mg/kg.

Section 5.2 (page 6) of the SHA study indicates that on average the arsenic concentrations detected in soil samples collected by SHA during the study are significantly higher compared to pre-study concentrations found in the NHDES soil database. This variance was presumably related to the urban settings where soil sample data was collected during the SHA study. The NHDES database was referenced in the SHA study to include the 95th percentile for arsenic at 11 mg/kg, which has been the adopted SRS for arsenic by NHDES. Page 7 of the SHA study further reports that based on arsenic data collected during the study from composite soil samples, the 95th percentile concentration for arsenic is 19.9 mg/kg.

Section 6.0 (page 7) of the SHA study presents report conclusions and recommendations based on data collected from composite soil sample results. The SHA study references the 1998 version of the NHDES Risk Characterization and Management Policy (RCMP) which discusses the background concentrations for metals are generally consistent with the 95th percentile concentrations found during the study. Page 8 of the SHA study (Conclusions) indicates arsenic and mercury concentrations detected in urban soils analyzed during the study suggest

¹ Information from the 1998 SHA study included with discussions for arsenic detected in discrete subsurface soil samples collected at the Property (pages 2-8).

background levels are elevated in urban settings relative to non-urban settings. The SHA study recommends the NHDES may consider establishing urban background values for arsenic at 20 mg/kg. The 1998 SHA proposed urban value for arsenic is above the current adopted SRS of 11 mg/kg.

4.0 CONCLUSIONS

The 1998 SHA study establishes that urban settings in southeastern NH have elevated concentrations of arsenic detected in shallow soil. ENAC recommends the Town of Raymond's Planning Board consider the recent detected elevated arsenic in subsurface native sand at the Property is associated with naturally occurring arsenic at concentrations that persist above SRS. Discrete soil samples collected by ENAC during this environmental evaluation at subsurface locations met the SRS criteria for all tested compounds, with the exception of arsenic found in underlying native sands with the presence of gravel.

Two PAH compounds benzo(a)pyrene and benzo(b)fluoranthene were detected above SRS, from the composite soil sample CS-1 collected from the reclaimed asphalt stockpile. The reclaimed asphalt stockpile is targeted for processing and re-use at offsite locations and the PAH detections are not considered a significant source for contamination of subsurface soil or groundwater. ENAC notes that PAHs are persistent in asphalt products and soil that is in direct contact with asphalt.

Recent groundwater samples collected by ENAC from the Property's network of 4-monitoring wells indicate that RCRA-8 metals, VOCs, PAHs, PFAS and blasting series compounds meet the established NHDES drinking water quality standard criteria, also referenced as the AGQS.

It has been a pleasure to assist you with your needs for environmental consulting.

ENVIRO NORTH AMERICAN CONSULTING, LLC



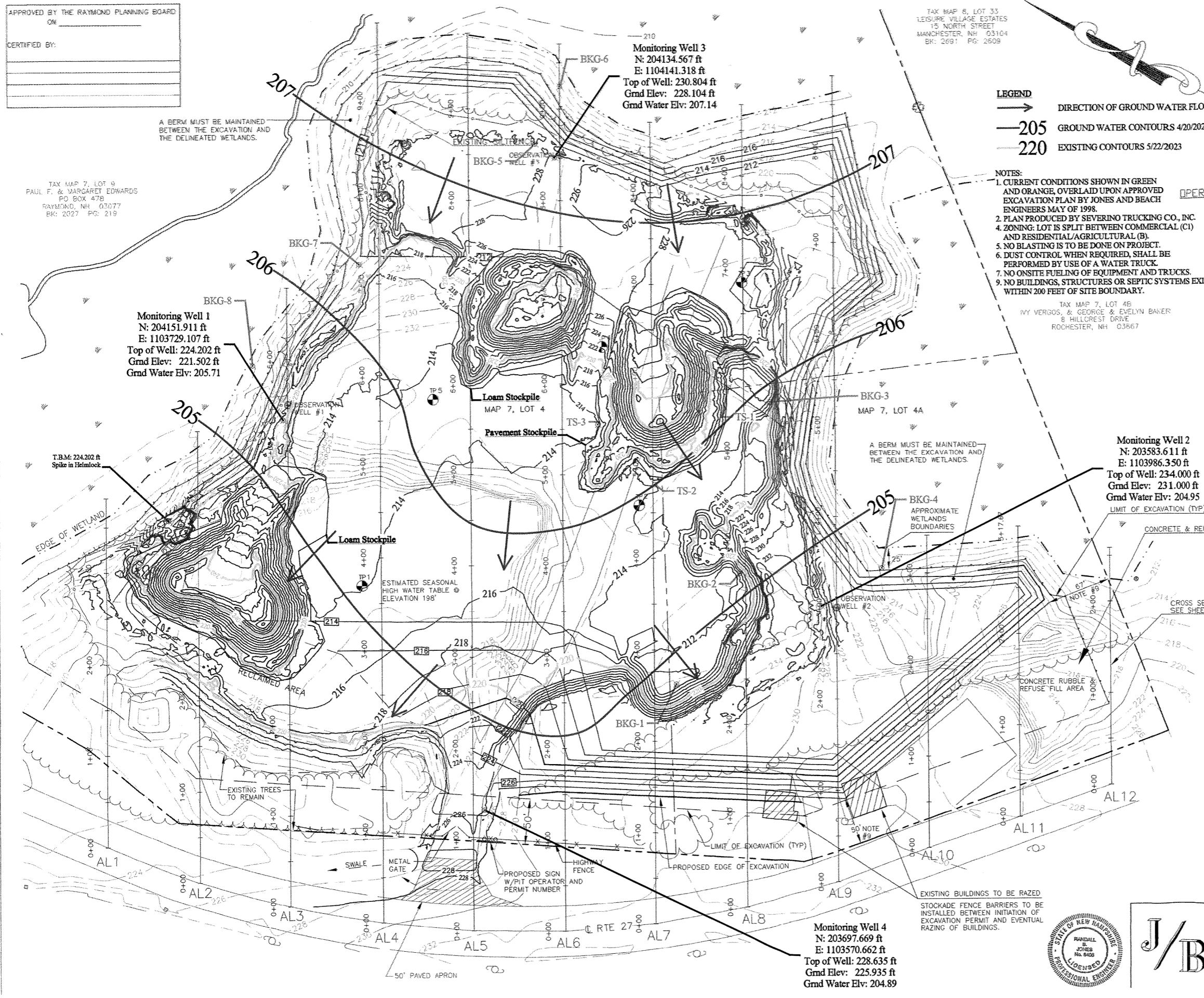
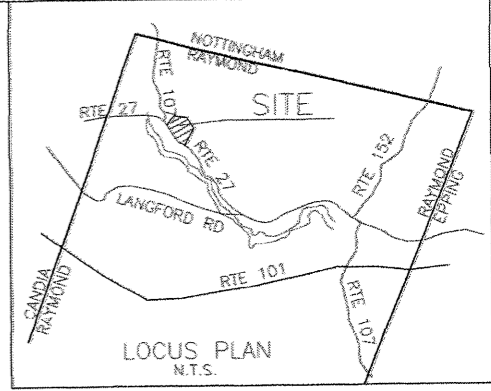
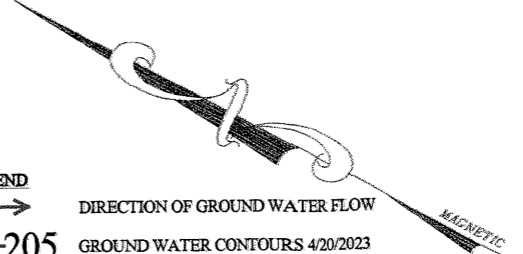
Todd A. Greenwood, P.G.
President

Attachments: Site Plan
Table 1 – Summary of Groundwater Quality Data
Table 2 – Summary of Groundwater Elevation Data
Table 3 – Summary of Discrete & Composite Soil Analytical Data
Soil Boring and Monitoring Well Logs
Laboratory Results

APPROVED BY THE RAYMOND PLANNING BOARD
ON _____
CERTIFIED BY: _____

TAX MAP 7, LOT 9
PAUL F. & MARGARET EDWARDS
PO BOX 478
RAYMOND, NH 03077
BK: 2027 PG: 219

TAX MAP 8, LOT 33
LEISURE VILLAGE ESTATES
15 NORTH STREET
MANCHESTER, NH 03104
BK: 2691 PG: 2609



LEGEND
 → DIRECTION OF GROUND WATER FLOW
 —205 GROUND WATER CONTOURS 4/20/2023
 —220 EXISTING CONTOURS 5/22/2023

NOTES:
 1. CURRENT CONDITIONS SHOWN IN GREEN AND ORANGE, OVERLAID UPON APPROVED EXCAVATION PLAN BY JONES AND BEACH ENGINEERS MAY OF 1998.
 2. PLAN PRODUCED BY SEVERINO TRUCKING CO., INC.
 3. ZONING: LOT IS SPLIT BETWEEN COMMERCIAL (C1) AND RESIDENTIAL/AGRICULTURAL (B).
 4. NO BLASTING IS TO BE DONE ON PROJECT.
 5. DUST CONTROL WHEN REQUIRED, SHALL BE PERFORMED BY USE OF A WATER TRUCK.
 6. NO ONSITE FUELING OF EQUIPMENT AND TRUCKS.
 7. NO BUILDINGS, STRUCTURES OR SEPTIC SYSTEMS EXIST WITHIN 200 FEET OF SITE BOUNDARY.

OPERATION NOTES:
 1. PROPOSED EXCAVATION LOCATED WITHIN A STRATIFIED-DRIFT AQUIFER AS SHOWN ON MAPS WITHIN USGS OPEN-FILE REPORT 92-95 STRATIFIED-DRIFT AQUIFERS IN THE EXETER, LAMPREY, AND OYSTER RIVER BASINS. (SEE WELL #6)
 2. AREA OF PROPOSED EXCAVATION: 13.27 ACRES, 578,000 SQUARE FEET
 3. VOLUME OF MATERIAL: 220,000 CUBIC YARDS
 4. PROJECT DURATION: 20 Years
 5. ESTIMATED SEASONAL HIGH WATER TABLE DETERMINED TO BE AT ELEVATION 198' AT TEST HOLE #1. PROPOSED EXCAVATION IS A MINIMUM OF 13 FEET ABOVE ESHWT.
 6. TRUCK TRAFFIC:
 A. TRIPS PER DAY: 100 LOADS PER DAY MAX.
 B. TYPE OF VEHICLES: 1-15 TRUCKS PER DAY
 C. WEIGHT LIMITS: 10 WHEELERS - 65,000 LBS.
 TRAILER DUMP BODIES - 100,000 LBS.
 TRI-AXLE - 72,000 LBS.
 7. HOURS OF OPERATION: WAIVER GRANTED JUNE 4, 1998.
 MACHINERY: 7:00AM - 5:00PM
 MATERIAL REMOVAL: 7:00AM - 5:00PM
 SATURDAY: 7:00AM - 12:00 (NOON)
 8. PERIMETER OF THE PIT SHALL BE SUITABLY POSTED WITH SIGNS AT A MAXIMUM 100 FOOT INTERVAL, NOTIFYING TRESPASSERS OF POTENTIAL DANGER.
 9. THE PROPOSED MINIMUM DISTANCE FROM EXCAVATION TO A SIDE PROPERTY LINE IS 67 FEET. THE PROPOSED MINIMUM DISTANCE FROM EXCAVATION TO A FRONT RIGHT-OF-WAY LINE IS 50 FEET.
 10. SITE SPECIFIC PERMIT #WPS-5001, JANUARY 28, 1998. AMENDED MARCH 9, 2010
 11. TRUCKS WILL NOT QUE ONTO ROUTE 27 AND ARE NOT ALLOWED TO BACK OUT ONTO THE HIGHWAY. TRUCKS ARE ALSO PROHIBITED FROM BACKING FROM ROUTE 27 ONTO THE SITE.
 12. MONITORING WELLS INSTALLED 4/6/2023

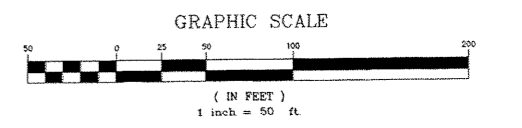
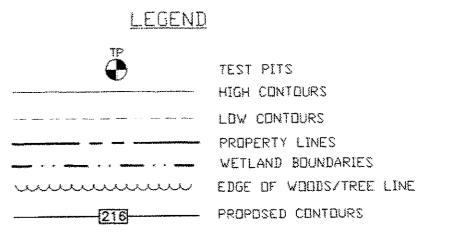
TAX MAP 7, LOT 4B
IVY VERGOS, & GEORGE & EVELYN BAKER
8 HILLCREST DRIVE
ROCHESTER, NH 03667

Monitoring Well 2
 N: 203583.611 ft
 E: 1103986.350 ft
 Top of Well: 234.000 ft
 Grd Elev: 231.000 ft
 Grd Water Elv: 204.95
 LIMIT OF EXCAVATION (TYP)

Monitoring Well 1
 N: 204151.911 ft
 E: 1103729.107 ft
 Top of Well: 224.202 ft
 Grd Elev: 221.502 ft
 Grd Water Elv: 205.71

Monitoring Well 3
 N: 204134.567 ft
 E: 1104141.318 ft
 Top of Well: 230.804 ft
 Grd Elev: 228.104 ft
 Grd Water Elv: 207.14

Monitoring Well 4
 N: 203697.669 ft
 E: 1103570.662 ft
 Top of Well: 228.635 ft
 Grd Elev: 225.935 ft
 Grd Water Elv: 204.89



OWNER OF RECORD
 BRANCH BROOK HOLDINGS, LLC.
 PO BOX 202
 CANDIA, N.H.
 BOOK 3919 - PAGE 1313

OPERATOR
 SEVERINO TRUCKING CO., INC.
 RONALD A. SEVERINO, PRESIDENT
 PO BOX 202
 CANDIA, N.H.
 PHONE (603)483-2133
 FAX (603)483-2998

TOTAL AREA
 22.37 AC

PROPOSED EXCAVATION
 13.2 AC

REVISED: JUNE 8, 1998

MAP 7 LOTS 4 & 4A NH RTE 27, RAYMOND, N.H.		DRAWING NO C2	
SEVERINO TRUCKING CO., INC. PROPOSED EXCAVATION PLAN NH RTE 27, RAYMOND, N.H.		JONES & BEACH ENGINEERS, INC. 85 PORTSMOUTH AVENUE STRATHAM, N.H. 03885 PHONE 772-4746 FAX 772-0227	
SCALE: 1" = 50'	DATE: 11/25/97	FILE: SEVERINO	REV. SHEET NO. OF



1
2023

TABLE 1
SUMMARY OF GROUNDWATER QUALITY DATA
SEVERINO TRUCKING CO., INC. - DENNEHY PIT
RAYMOND, NH

COMPOUND	DATE	SITE MONITORING WELLS				NHDES AMBIENT GROUNDWATER QUALITY STANDARDS
		MW-1	MW-2	MW-3	MW-4	
Benzene <i>VOCs by EPA Method 8260C/524.2</i>						5
	4/20/2023	<1	<1	<1	<1	
Toluene						1,000
	4/20/2023	<1	<1	<1	<1	
Ethylbenzene						700
	4/20/2023	<1	<1	<1	<1	
Total Xylenes						10,000
	4/20/2023	<1	<1	<1	<1	
Naphthalene						100
	4/20/2023	<2	<2	<2	<2	
Isopropylbenzene						800
	4/20/2023	<1	<1	<1	<1	
n-Butylbenzene						260
	4/20/2023	<1	<1	<1	<1	
sec-Butylbenzene						260
	4/20/2023	<1	<1	<1	<1	
n-Propylbenzene						260
	4/20/2023	<1	<1	<1	<1	
p-Isopropyltoluene						260
	4/20/2023	<1	<1	<1	<1	
Trichloroethene (TCE)						5
	4/20/2023	<1	<1	<1	<1	
Tetrachloroethene (PCE)						5
	4/20/2023	<1	<1	<1	<1	
1,2,4-Trimethylbenzene						330
	4/20/2023	<1	<1	<1	<1	
1,3,5-Trimethylbenzene						330
	4/20/2023	<1	<1	<1	<1	

- Notes: 1. Concentrations expressed in parts per billion (ppb) equivalent to micrograms per liter (µg/L).
2. <1 = Below laboratory detection/reporting limits, as shown.
3. Concentrations compared to NHDES AGQS, revised 1/1/2021.
4. Samples collected from groundwater monitoring wells as raw unfiltered.

**TABLE 1
SUMMARY OF GROUNDWATER QUALITY DATA
SEVERINO TRUCKING CO., INC. - DENNEHY PIT
RAYMOND, NH**

COMPOUND <i>PAHS by EPA Method 8270D</i>	DATE	SITE MONITORING WELLS				NHDES AMBIENT GROUNDWATER QUALITY STANDARDS
		MW-1	MW-2	MW-3	MW-4	
Acenaphthylene						420
	4/20/2023	<0.1	<0.1	<0.1	<0.1	
Acenaphthene						420
	4/20/2023	<0.1	<0.1	<0.1	<0.1	
Anthracene						2,100
	4/20/2023	<0.1	<0.1	<0.1	<0.1	
Benzo(a)anthracene						0.1
	4/20/2023	<0.1	<0.1	<0.1	<0.1	
Benzo(a)pyrene						0.2
	4/20/2023	<0.1	<0.1	<0.1	<0.1	
Benzo(b)fluoranthene						0.1
	4/20/2023	<0.1	<0.1	<0.1	<0.1	
Benzo(g,h,i)perylene						210
	4/20/2023	<0.1	<0.1	<0.1	<0.1	
Benzo(k)fluoranthene						0.5
	4/20/2023	<0.1	<0.1	<0.1	<0.1	
Chrysene						5
	4/20/2023	<0.1	<0.1	<0.1	<0.1	
Dibenz(a,h)anthracene						0.1
	4/20/2023	<0.1	<0.1	<0.1	<0.1	
Fluorene						280
	4/20/2023	<0.1	<0.1	<0.1	<0.1	
Fluoranthene						280
	4/20/2023	<0.1	<0.1	<0.1	0.12	
Phenanthrene						210
	4/20/2023	<0.1	<0.1	<0.1	<0.1	
Pyrene						210
	4/20/2023	<0.1	<0.1	<0.1	<0.1	
Indeno(1,2,3-cd)pyrene						0.1
	4/20/2023	<0.1	<0.1	<0.1	<0.1	
Naphthalene						100
	4/20/2023	<0.1	<0.1	<0.1	<0.1	
1-Methylnaphthalene						160
	4/20/2023	<0.1	<0.1	<0.1	<0.1	
2-Methylnaphthalene						280
	4/20/2023	<0.1	<0.1	<0.1	<0.1	

- Notes: 1. Concentrations expressed in parts per billion (ppb) equivalent to micrograms per liter (µg/L).
2. <1 = Below laboratory detection/reporting limits, as shown.
3. Concentrations compared to NHDES AGQS, revised 1/1/21.
4. Samples collected from groundwater monitoring wells as raw unfiltered.

**TABLE 1
SUMMARY OF GROUNDWATER QUALITY DATA
SEVERINO TRUCKING CO., INC. - DENNEHY PIT
RAYMOND, NH**

COMPOUND	DATE	SITE MONITORING WELLS				NHDES AMBIENT GROUNDWATER QUALITY STANDARDS
		MW-1	MW-2	MW-3	MW-4	
<i>RCRA-8 Metals and Nutrients</i>						
	5/9/2023	<0.5	0.84	0.91	<0.5	
Arsenic						5
	5/9/2023	<0.5	0.84	0.91	<0.5	
Barium						2,000
	5/9/2023	8.1	20	8	120	
Cadmium						5
	5/9/2023	<1	<1	<1	<1	
Chromium						100
	5/9/2023	<1	<1	<1	<1	
Lead						15
	5/9/2023	<1	<1	<1	<1	
Mercury						2
	5/9/2023	<0.1	<0.1	<0.1	<0.1	
Selenium						50
	5/9/2023	<1	<1	<1	<1	
Silver						100
	5/9/2023	<1	<1	<1	<1	
Nitrate-N						10,000
	5/9/2023	<100	<100	100	<100	
Nitrite-N						1,000
	5/9/2023	<500	<500	<500	<500	
Ammonia-N						NSA
	5/9/2023	<50	<50	100	<50	
Total Phosphorus						NSA
	5/9/2023	320	1,100	88	340	

- Notes:*
1. Concentrations expressed in parts per billion (ppb) equivalent to micrograms per liter (µg/L).
 2. <1 = Below laboratory detection/reporting limits, as shown.
 3. Concentrations compared to NHDES AGQS, revised 1/1/21.
 4. RCRA-8 dissolved metal samples collected from groundwater monitoring wells with use of 0.45-micron field filter. Nutrient samples collected as raw water without field filtering for Nitrate, Nitrite, Ammonia, and Total Phosphorus.
 5. NSA = No Standard (AGQS) Available

**TABLE 1
SUMMARY OF GROUNDWATER QUALITY DATA
SEVERINO TRUCKING CO., INC. - DENNEHY PIT
RAYMOND, NH**

COMPOUND	DATE	SITE MONITORING WELLS				NHDES AMBIENT GROUNDWATER QUALITY STANDARDS
		MW-1	MW-2	MW-3	MW-4	
<i>PFAS Chemicals</i>						
Perfluorobutane Sulfonic Acid (PFBS)	5/9/2023	0.72	<1.8	0.86	2.9 / 3.4*	NSA
Perfluorohexanoic Acid (PFHxA)	5/9/2023	<1.7	<1.8	0.99	2.7 / 4.5*	NSA
Perfluorohexane Sulfonic Acid (PFHxS)	5/9/2023	<1.7	<1.8	1.0	0.87 / <1.9*	18
Perfluoroheptanoic Acid (PFHpA)	5/9/2023	<1.7	<1.8	1.5	3.3 / 4.2*	NSA
Perfluorooctanoic Acid (PFOA)	5/9/2023	<1.7	<1.8	1.6	5.2 / 6.7*	12
Perfluorooctane Sulfonic Acid (PFOS)	5/9/2023	1.1	0.72	1.1	0.72 / <1.8*	15
Perfluorononanoic Acid (PFNA)	5/9/2023	<1.7	<1.8	<1.8	<1.9	11
Perfluorodecanoic Acid (PFDA)	5/9/2023	<1.7	<1.8	<1.8	<1.9	NSA
N-ethyl Perfluorooctanesulfonamido Acetic Acid (EtFOSAA)	5/9/2023	<1.7	<1.8	<1.8	<1.9	NSA
Perfluoroundecanoic Acid (PFUnA)	5/9/2023	<1.7	<1.8	<1.8	<1.9	NSA
N-methyl Perfluorooctanesulfonamido Acetic Acid (MeFOSAA)	5/9/2023	<1.7	<1.8	<1.8	<1.9	NSA
Perfluorododecanoic Acid (PFDoA)	5/9/2023	<1.7	<1.8	<1.8	<1.9 ⁶	NSA
Perfluorotridecanoic Acid (PFTrDA)	5/9/2023	<1.7	<1.8	<1.8	<1.9 ⁶	NSA
Perfluorotetradecanoic Acid (PFTA)	5/9/2023	<1.7	<1.8	<1.8	<1.9 ⁶	NSA
Hexafluoropropylene oxide dimer acid (HFPO-DA)	5/9/2023	<1.7	<1.8	<1.8	<1.9	NSA
11C1-PF3OUdS (F53B Major)	5/9/2023	<1.7	<1.8	<1.8	<1.9**	NSA
9C1-PF3ONS (F53B Minor)	5/9/2023	<1.7	<1.8	<1.8	<1.9	NSA
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	5/9/2023	<1.7	<1.8	<1.8	<1.9	NSA

- Notes:
1. Concentrations expressed in parts per trillion (ppt) equivalent to nanograms per liter (ng/L).
 2. <1 = Below laboratory detection/reporting limits, as shown.
 3. Concentrations compared to NHDES AGQS, revised 1/1/21.
 4. Samples collected from groundwater monitoring wells as raw unfiltered.
 5. NSA = No Standard (AGQS) Available
 6. Concentration results obtained in laboratory where fortified blank control sample recovery and duplicate recovery is outside of control limits. Reported value is likely to be biased on the low side.
 7. ** concentration result where either laboratory fortified blank or laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. The reported concentration is between the two LFB/LCS results is within method specification criteria.
 8. * Concentrations for MW-4 resulted with surrogate recovery outside of control limits. Re-extraction yielded different surrogate non-conformance. Both results reported for MW-4 analyses.

TABLE 2

**SUMMARY OF GROUNDWATER ELEVATION DATA
SEVERINO TRUCKING COMPANY, INC. - DENNEHY PIT
RAYMOND, NH**

WELL	DATE	WATER LEVEL (feet)	TOP OF PVC (feet)	GROUNDWATER ELEVATION (feet)
MW-1			224.202	
	5/9/2023	17.95		206.25
	4/20/2023	18.49		205.71
MW-2			234.000	
	5/9/2023	28.32		205.68
	4/20/2023	29.05		204.95
MW-3			230.804	
	5/9/2023	23.16		207.64
	4/20/2023	23.66		207.14
MW-4			228.635	
	5/9/2023	23.05		205.59
	4/20/2023	23.75		204.89

- NOTES:**
1. Well survey conducted by Severino Construction.
 2. Site Survey Benchmark = Spike in Hemlock = 224.202 feet.
 3. Monitoring wells installed 4/6/2023.

**TABLE 3
SUMMARY OF DISCREET AND COMPOSITE SOIL ANALYTICAL DATA
SEVERINO TRUCKING COMPANY, INC. - DENNEHY PIT
RAYMOND, NH**

COMPOUND	DATE	SOIL SAMPLE LOCATIONS					NHDES Soil Remediation Standards
		TS-1 (discrete sample, subsurface toe of slope 16-inches)	TS-2 (discrete sample, subsurface toe of slope 24-inches)	TS-3 (discrete sample, subsurface toe of slope 22-inches)	CS-1 (composite sample recycled asphalt)	CS-2 (composite sample loam piles)	
RCRA 8 Metals		<i>SOIL presented as mg/kg</i>					
Arsenic	5/9/2023	22	16	15	7.8	16	11
Barium	5/9/2023	36	15	14	40	24	1,000
Cadmium	5/9/2023	<0.5	<0.5	<0.5	<0.5	<0.5	33
Chromium	5/9/2023	13	5.3	5	18	8.9	130*
Lead	5/9/2023	6	4	3.2	28	17	400
Mercury	5/9/2023	<0.1	<0.1	<0.1	0.16	<0.1	7
Selenium	5/9/2023	<0.5	<0.5	<0.5	<0.5	<0.5	180
Silver	5/9/2023	<0.5	<0.5	<0.5	<0.5	<0.5	89
PAHs 8270		<i>SOIL presented as mg/kg</i>					
Acenaphthene	5/9/2023	<0.07	<0.07	<0.07	<0.4	<0.08	340
Acenaphthylene	5/9/2023	<0.07	<0.07	<0.07	<0.4	<0.08	490
Anthracene	5/9/2023	<0.07	<0.07	<0.07	<0.4	<0.08	1,000
Benzo(a)anthracene	5/9/2023	<0.07	<0.07	<0.07	0.72	<0.08	1
Benzo(a)pyrene	5/9/2023	<0.07	<0.07	<0.07	0.79	<0.08	0.7
Benzo(b)fluoranthene	5/9/2023	<0.07	<0.07	<0.07	1.2	<0.08	1
Benzo(k)fluoranthene	5/9/2023	<0.07	<0.07	<0.07	0.43	<0.08	12
Benzo(g,h,i)perylene	5/9/2023	<0.07	<0.07	<0.07	<0.4	<0.08	NSA
Dibenz(a,h)anthracene	5/9/2023	<0.07	<0.07	<0.07	<0.4	<0.08	0.7
Chrysene	5/9/2023	<0.07	<0.07	<0.07	0.87	<0.08	120
Indeno(1,2,3-cd)pyrene	5/9/2023	<0.07	<0.07	<0.07	<0.4	<0.08	1
Fluorene	5/9/2023	<0.07	<0.07	<0.07	<0.4	<0.08	77
Fluoranthene	5/9/2023	<0.07	<0.07	<0.07	1.6	<0.08	960
Phenanthrene	5/9/2023	<0.07	<0.07	<0.07	0.61	<0.08	NSA
Naphthalene (8270D)	5/9/2023	<0.07	<0.07	<0.07	<0.4	<0.08	5
Pyrene	5/9/2023	<0.07	<0.07	<0.07	1.2	<0.08	720
1-Methylnaphthalene	5/9/2023	<0.07	<0.07	<0.07	<0.4	<0.08	NSA
2-Methylnaphthalene	5/9/2023	<0.07	<0.07	<0.07	<0.4	<0.08	96
VOCs 8260		<i>SOIL presented as mg/kg</i>					
Trichloroethene	5/9/2023	<0.05	<0.05	<0.05	0.12	<0.05	0.8
Total Petroleum Hydrocarbons DRO 8015		<i>SOIL presented as mg/kg</i>					
TPH as Diesel Range Organics	5/9/2023	<30	<30	<30	<200	<30	10,000

- Notes: 1. Discreet soil samples TS-1, TS-2, TS-3 collected from toe of slope of recycled asphalt pile 15-inches below grade.
2. Composite soil sample CS-1 collected from 8-discreet locations across face of recycled asphalt pile.
3. Composite soil sample CS-2 collected from existing loam piles (8-discreet sample locations).
4. Laboratory soil data presented as milligrams per kilogram equivalent to parts per million (ppm).
5. Analytical soil results compared to NHDES Soil Remediation Standards published in Env-Or 600, Table 600-2.

TABLE 3
SUMMARY OF DISCREET AND COMPOSITE SOIL ANALYTICAL DATA
SEVERINO TRUCKING COMPANY, INC. - DENNEHY PIT
RAYMOND, NH

COMPOUND	DATE	DISCRETE BACKGROUND SOIL SAMPLE LOCATIONS								NHDES Soil Remediation Standard
		BKG-1 (embankment sample)	BKG-2 (embankment sample)	BKG-3 (embankment sample)	BKG-4 (native sand near wetland)	BKG-5 (native sand top of slope)	BKG-6 (native sand near wetland)	BKG-7 (embankment sample)	BKG-8 (near wetland)	
<i>RCRA 8 Metals</i>		<i>SOIL presented as ug/kg</i>								
Arsenic	5/22/2023	15	8.9	13	22	41	10	6.4	13	11

- Notes:
1. Background soil samples BKG-1, BKG-2, BKG-3 and BKG-7 collected 2-feet into embankments at the limits of disturbance.
 2. Background soil sample BKG-4 collected below ground surface at 28-inches, BKG-5 below grade at 16-inches.
 3. Background soil sample BKG-6 collected below grade at 28-inches, and BKG-8 at 13-inches.



BORING LOG

BORING NO.: MW-1
SHEET: 1 of 1
PROJECT NO.: 23-0564
DATE START: 4/6/2023
DATE FINISH: 4/6/2023

CLIENT: Severino Trucking Co., Inc.
PROJECT: Dennehy Borrow Pit
LOCATION: Route 27, Raymond, New Hampshire

Drilling Information

LOCATION: See Exploration Location Plan **ELEVATION (FT):** _____ **TOTAL DEPTH (FT):** 22.0 **LOGGED BY:** Bryce Walker
DRILLING CO.: S. W. Cole Explorations, LLC **DRILLER:** Jeff Lee **DRILLING METHOD:** Solid Stem Auger
RIG TYPE: Track Mounted CME 850 **AUGER ID/OD:** N/A / 4 1/2 in **SAMPLER:** Standard Split-Spoon
HAMMER TYPE: Automatic / N/A **HAMMER WEIGHT (lbs):** 140 **CASING ID/OD:** N/A / N/A **CORE BARREL:** N/A
HAMMER CORRECTION FACTOR: 1.44 **HAMMER DROP (inch):** 30
WATER LEVEL DEPTHS (ft): ∇ 16 ft Soils appear saturated below 16 feet.

GENERAL NOTES:

KEY TO NOTES AND SYMBOLS:
 Water Level ∇ At time of Drilling
 ∇ At Completion of Drilling
 ∇ After Drilling
 D = Split Spoon Sample
 U = Thin Walled Tube Sample
 R = Rock Core Sample
 V = Field Vane Shear
 Pen. = Penetration Length
 Rec. = Recovery Length
 bpf = Blows per Foot
 mpf = Minute per Foot
 WOR = Weight of Rods
 WOH = Weight of Hammer
 RQD = Rock Quality Designation
 PID = Photoionization Detector
 S_v = Field Vane Shear Strength, kips/sq.ft.
 q_u = Unconfined Compressive Strength, kips/sq.ft.
 Ø = Friction Angle (Estimated)
 N/A = Not Applicable

Elev. (ft)	Depth (ft)	Casing Pen. (bpf)	SAMPLE INFORMATION					Graphic Log	Sample Description & Classification	H ₂ O Depth	Well Diagram
			Sample No.	Type	Depth (ft)	Pen./ Rec. (in)	Blow Count or RQD				
			1D	X	0-2	24/9	1-3-3-4		Loose, brown to light brown, gravelly silty SAND; frequent cobbles, boulders		
	5		2D	X	5-7	24/8	3-2-2-4	6.5	Loose to medium dense, light brown to tan, SAND some gravel some silt		Capped riser from -2.5 to 12 feet. Drill spoils from 0 to 10 feet.
	10		3D	X	10-12	24/12	9-6-6-7				Bentonite chips from 10 to 11 feet.
	15		4D	X	15-17	24/18	7-6-9-5	16.0	Medium dense, light brown with orange staining, fine SAND some silt	∇	Filter sand from 11 to 22 feet. Water level observed at 16.5 feet after well installation. Capped screen from 12 to 22 feet.
Bottom of Exploration at 22.0 feet											

Stratification lines represent approximate boundary between soil types, transitions may be gradual. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.

BORING NO.: MW-1



BORING LOG

BORING NO.: MW-2
SHEET: 1 of 1
PROJECT NO.: 23-0564
DATE START: 4/6/2023
DATE FINISH: 4/6/2023

CLIENT: Severino Trucking Co., Inc.
PROJECT: Dennehy Borrow Pit
LOCATION: Route 27, Raymond, New Hampshire

Drilling Information

LOCATION: See Exploration Location Plan **ELEVATION (FT):** _____ **TOTAL DEPTH (FT):** 30.0 **LOGGED BY:** Bryce Walker
DRILLING CO.: S. W. Cole Explorations, LLC **DRILLER:** Jeff Lee **DRILLING METHOD:** Hollow Stem Auger
RIG TYPE: Track Mounted CME 850 **AUGER ID/OD:** 2 1/4 in / 5 5/8 in **SAMPLER:** Standard Split-Spoon
HAMMER TYPE: Automatic / N/A **HAMMER WEIGHT (lbs):** 140 **CASING ID/OD:** N/A / N/A **CORE BARREL:** N/A
HAMMER CORRECTION FACTOR: 1.44 **HAMMER DROP (inch):** 30
WATER LEVEL DEPTHS (ft): ∇ 25 ft Soils appear saturated below 25.5 feet.

GENERAL NOTES:

KEY TO NOTES AND SYMBOLS:
 Water Level: ∇ At time of Drilling, ▼ At Completion of Drilling, ▽ After Drilling
 D = Split Spoon Sample, U = Thin Walled Tube Sample, R = Rock Core Sample, V = Field Vane Shear
 Pen. = Penetration Length, Rec. = Recovery Length, bpf = Blows per Foot, mpf = Minute per Foot
 WOR = Weight of Rods, WOH = Weight of Hammer, RQD = Rock Quality Designation, PID = Photoionization Detector
 S_v = Field Vane Shear Strength, kips/sq.ft., q_u = Unconfined Compressive Strength, kips/sq.ft., Ø = Friction Angle (Estimated), N/A = Not Applicable

Elev. (ft)	Depth (ft)	Casing Pen. (bpf)	SAMPLE INFORMATION				Graphic Log	Sample Description & Classification	H ₂ O Depth	Well Diagram
			Sample No.	Type	Depth (ft)	Pen./ Rec. (in)				
							No samples taken - drilling through leveling pad (Fill)			
	5		1D	5-7	24/14	5-6-6-7	5.0	Loose to medium dense, light brown with orange staining, gravelly SAND some silt; occasional fine sand seams		
	10		2D	10-12	24/15	4-4-6-6				
	15		3D	15-17	24/24	5-5-6-9	15.0	Medium dense to dense, light brown with orange staining, fine SAND some silt; occasional sand seams		
	20		4D	20-22	24/20	14-15-15-16				
	25		5D	25-27	24/18	8-9-9-11				

Stratification lines represent approximate boundary between soil types, transitions may be gradual. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.

Bottom of Exploration at 30.0 feet

BORING NO.: MW-2



BORING LOG

BORING NO.: MW-3
SHEET: 1 of 1
PROJECT NO.: 23-0564
DATE START: 4/6/2023
DATE FINISH: 4/6/2023

CLIENT: Severino Trucking Co., Inc.
PROJECT: Dennehy Borrow Pit
LOCATION: Route 27, Raymond, New Hampshire

Drilling Information

LOCATION: See Exploration Location Plan **ELEVATION (FT):** _____ **TOTAL DEPTH (FT):** 26.0 **LOGGED BY:** Bryce Walker
DRILLING CO.: S. W. Cole Explorations, LLC **DRILLER:** Jeff Lee **DRILLING METHOD:** Solid Stem Auger
RIG TYPE: Track Mounted CME 850 **AUGER ID/OD:** N/A / 4 1/2 in **SAMPLER:** Standard Split-Spoon
HAMMER TYPE: Automatic / N/A **HAMMER WEIGHT (lbs):** 140 **CASING ID/OD:** N/A / N/A **CORE BARREL:** N/A
HAMMER CORRECTION FACTOR: 1.44 **HAMMER DROP (inch):** 30
WATER LEVEL DEPTHS (ft): ∇ 21 ft Soils appear saturated below 21 feet.

GENERAL NOTES:

KEY TO NOTES AND SYMBOLS:
 ∇ Water Level
 ∇ At time of Drilling
 ∇ At Completion of Drilling
 ∇ After Drilling
 D = Split Spoon Sample
 U = Thin Walled Tube Sample
 R = Rock Core Sample
 V = Field Vane Shear
 Pen. = Penetration Length
 Rec. = Recovery Length
 bpf = Blows per Foot
 mpf = Minute per Foot
 WOR = Weight of Rods
 WOH = Weight of Hammer
 RQD = Rock Quality Designation
 PID = Photoionization Detector
 S_v = Field Vane Shear Strength, kips/sq.ft.
 q_u = Unconfined Compressive Strength, kips/sq.ft.
 Ø = Friction Angle (Estimated)
 N/A = Not Applicable

Elev. (ft)	Depth (ft)	Casing Pen. (bpf)	SAMPLE INFORMATION					Graphic Log	Sample Description & Classification	H ₂ O Depth	Well Diagram
			Sample No.	Type	Depth (ft)	Pen./ Rec. (in)	Blow Count or RQD				
			1D	X	0-2	24/8	3-4-9-12		0.3 Medium dense, brown, SAND (Fill) Medium dense, light brown with orange staining, SAND some gravel trace silt		
	5		2D	X	5-7	24/2	7-8-7-7				
	10		3D	X	10-12	24/24	6-6-7-7		10.7 Loose to medium dense, light brown to tan, fine SAND some silt		
	15		4D	X	15-17	24/19	7-5-5-6				
	20		5D	X	20-22	24/24	6-4-5-6				
	25										

Bottom of Exploration at 26.0 feet

Stratification lines represent approximate boundary between soil types, transitions may be gradual. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.

BORING NO.: MW-3

BORING / WELL_10-12-2022_23-0564.GPJ_SWCE_TEMPLATE.GDT_4/6/23



BORING LOG

BORING NO.: MW-4
SHEET: 1 of 1
PROJECT NO.: 23-0564
DATE START: 4/6/2023
DATE FINISH: 4/6/2023

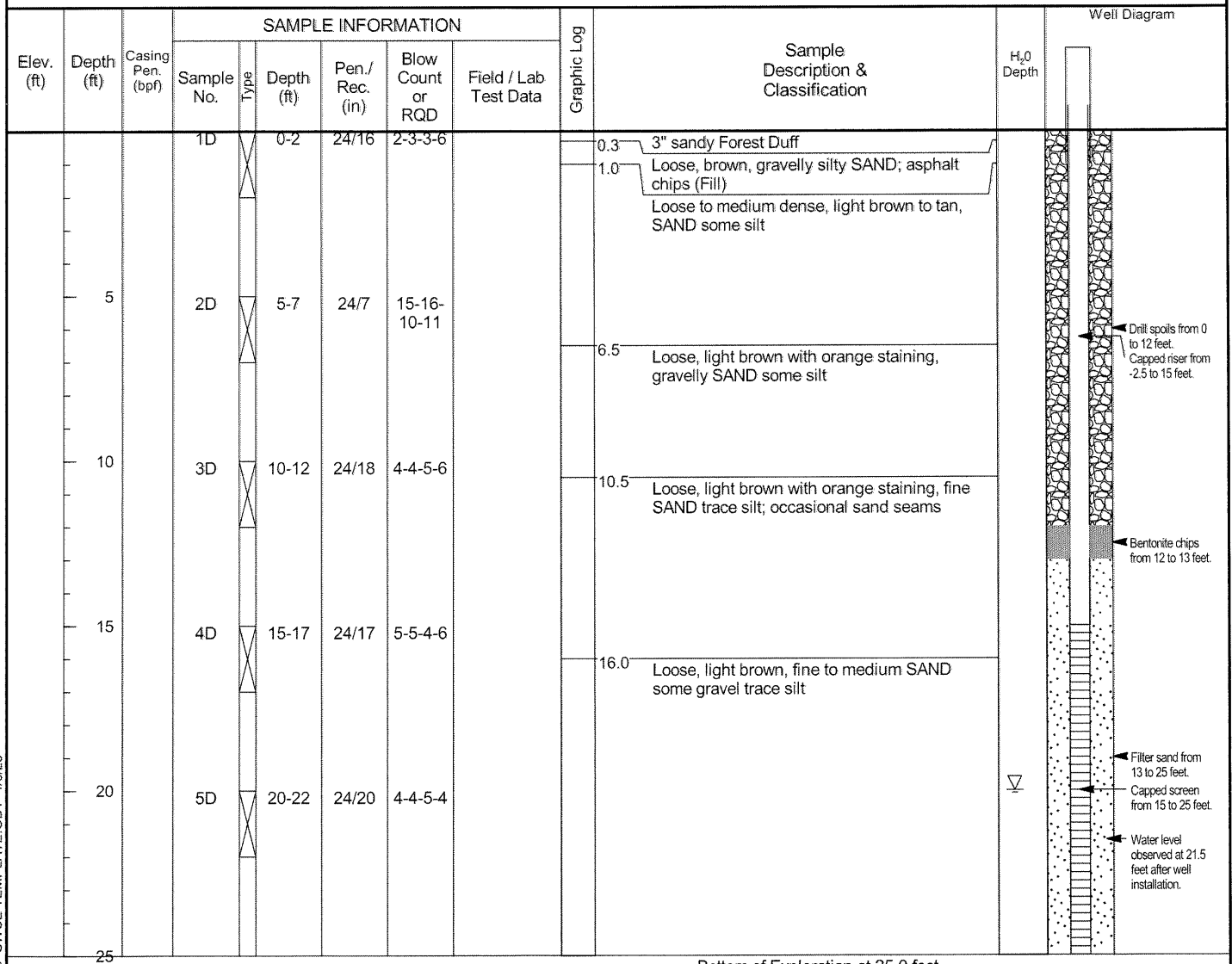
CLIENT: Severino Trucking Co., Inc.
PROJECT: Dennehy Borrow Pit
LOCATION: Route 27, Raymond, New Hampshire

Drilling Information

LOCATION: See Exploration Location Plan **ELEVATION (FT):** _____ **TOTAL DEPTH (FT):** 25.0 **LOGGED BY:** Bryce Walker
DRILLING CO.: S. W. Cole Explorations, LLC **DRILLER:** Jeff Lee **DRILLING METHOD:** Hollow Stem Auger
RIG TYPE: Track Mounted CME 850 **AUGER ID/OD:** 2 1/4 in / 5 5/8 in **SAMPLER:** Standard Split-Spoon
HAMMER TYPE: Automatic / N/A **HAMMER WEIGHT (lbs):** 140 **CASING ID/OD:** N/A /N/A **CORE BARREL:** N/A
HAMMER CORRECTION FACTOR: 1.44 **HAMMER DROP (inch):** 30
WATER LEVEL DEPTHS (ft): ∇ 20 ft Soils appear saturated below 20 feet.

GENERAL NOTES:

KEY TO NOTES AND SYMBOLS:
 Water Level: ∇ At time of Drilling, ▼ At Completion of Drilling, ▼ After Drilling
 D = Split Spoon Sample U = Thin Walled Tube Sample R = Rock Core Sample V = Field Vane Shear
 Pen. = Penetration Length Rec. = Recovery Length bpf = Blows per Foot mpf = Minute per Foot
 WOR = Weight of Rods WOH = Weight of Hammer RQD = Rock Quality Designation PID = Photoionization Detector
 S_v = Field Vane Shear Strength, kips/sq.ft. q_u = Unconfined Compressive Strength, kips/sq.ft. Ø = Friction Angle (Estimated) N/A = Not Applicable



BORING /WELL 10-12-2022 23-0564.GPJ SWCE TEMPLATE.GDT 4/6/23

Stratification lines represent approximate boundary between soil types, transitions may be gradual. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.

BORING NO.: MW-4

Todd Greenwood
Enviro North American Consulting
PO Box 1075
Alton, NH 03809



Laboratory Report for:

Eastern Analytical, Inc. ID: 258982
Client Identification: SEVERINO PIT
Date Received: 4/20/2023

Enclosed are the analytical results per the Chain of Custody for sample(s) in the referenced project. All analyses were performed in accordance with our QA/QC Program, NELAP and other applicable state requirements. All quality control criteria was within acceptance criteria unless noted on the report pages. Results are for the exclusive use of the client named on this report and will not be released to a third party without consent.

The following information is contained within this report: Sample Conditions summary, Analytical Results/Data, Quality Control data (if requested) and copies of the Chain of Custody. This report may not be reproduced except in full, without the written approval of the laboratory.

The following standard abbreviations and conventions apply to all EAI reports:

- < : "less than" followed by the reporting limit
- > : "greater than" followed by the reporting limit
- %R : % Recovery

Certifications:

Eastern Analytical, Inc. maintains certification in the following states: Connecticut (PH-0492), Maine (NH005), Massachusetts (M-NH005), New Hampshire/NELAP (1012), Rhode Island (269), Vermont (VT1012), New York (12072) and West Virginia (9910C). Please refer to our website at www.easternanalytical.com for a copy of our certificates and accredited parameters.


References:

- EPA 600/4-79-020, 1983
- Standard Methods for Examination of Water and Wastewater, 20th, 21st, 22nd & 23rd edition or noted revision year.
- Test Methods for Evaluating Solid Waste SW 846 3rd Edition including updates IVA and IVB
- Hach Water Analysis Handbook, 4th edition, 1992
- ASTM International

If you have any questions regarding the results contained within, please feel free to contact customer service. Unless otherwise requested, we will dispose of the sample(s) 6 weeks from the sample receipt date.

We appreciate this opportunity to be of service and look forward to your continued patronage.

Sincerely,


Lorraine Olashaw, Lab Director

4.26.23
Date



SAMPLE CONDITIONS PAGE

EAI ID#: 258982

Client: **Enviro North American Consulting**

Client Designation: **SEVERINO PIT**

Temperature upon receipt (°C): **2.7**

Received on ice or cold packs (Yes/No): **Y**

Acceptable temperature range (°C): 0-6

Lab ID	Sample ID	Date Received	Date/Time Sampled	Sample Matrix	% Dry Weight	Exceptions/Comments (other than thermal preservation)
258982.01	MW-1	4/20/23	4/20/23 12:35	aqueous		Adheres to Sample Acceptance Policy
258982.02	MW-2	4/20/23	4/20/23 12:10	aqueous		Adheres to Sample Acceptance Policy
258982.03	MW-3	4/20/23	4/20/23 12:25	aqueous		Adheres to Sample Acceptance Policy
258982.04	MW-4	4/20/23	4/20/23 12:45	aqueous		Adheres to Sample Acceptance Policy
258982.05	Trip Blank	4/20/23	4/20/23 08:00	aqueous		Adheres to Sample Acceptance Policy

All results contained in this report relate only to the above listed samples.

Unless otherwise noted:

- Hold times, preservation, container types, and sample conditions adhered to EPA Protocol.
- Solid samples are reported on a dry weight basis, unless otherwise noted. pH/Corrosivity, Flashpoint, Ignitability, Paint Filter, Conductivity and Specific Gravity are always reported on an "as received" basis.
- Analysis of pH, Total Residual Chlorine, Dissolved Oxygen and Sulfite were performed at the laboratory outside of the recommended 15 minute hold time.
- Samples collected by Eastern Analytical, Inc. (EAI) were collected in accordance with approved EPA procedures.



LABORATORY REPORT

EAI ID#: **258982**

Client: **Enviro North American Consulting**

Client Designation: **SEVERINO PIT**

Sample ID:	MW-1	MW-2	MW-3	MW-4
Lab Sample ID:	258982.01	258982.02	258982.03	258982.04
Matrix:	aqueous	aqueous	aqueous	aqueous
Date Sampled:	4/20/23	4/20/23	4/20/23	4/20/23
Date Received:	4/20/23	4/20/23	4/20/23	4/20/23
Units:	ug/L	ug/L	ug/L	ug/L
Date of Analysis:	4/21/23	4/21/23	4/21/23	4/21/23
Analyst:	SG	SG	SG	SG
Method:	8260C	8260C	8260C	8260C
Dilution Factor:	1	1	1	1
Dichlorodifluoromethane	< 2	< 2	< 2	< 2
Chloromethane	< 2	< 2	< 2	< 2
Vinyl chloride	< 1	< 1	< 1	< 1
Bromomethane	< 2	< 2	< 2	< 2
Chloroethane	< 2	< 2	< 2	< 2
Trichlorofluoromethane	< 2	< 2	< 2	< 2
Diethyl Ether	< 2	< 2	< 2	< 2
Acetone	< 10	< 10	< 10	< 10
1,1-Dichloroethene	< 0.5	< 0.5	< 0.5	< 0.5
tert-Butyl Alcohol (TBA)	< 30	< 30	< 30	< 30
Methylene chloride	< 1	< 1	< 1	< 1
Carbon disulfide	< 2	< 2	< 2	< 2
Methyl-t-butyl ether(MTBE)	< 1	< 1	< 1	< 1
Ethyl-t-butyl ether(ETBE)	< 2	< 2	< 2	< 2
Isopropyl ether(DIPE)	< 2	< 2	< 2	< 2
tert-amyl methyl ether(TAME)	< 2	< 2	< 2	< 2
trans-1,2-Dichloroethene	< 1	< 1	< 1	< 1
1,1-Dichloroethane	< 1	< 1	< 1	< 1
2,2-Dichloropropane	< 1	< 1	< 1	< 1
cis-1,2-Dichloroethene	< 1	< 1	< 1	< 1
2-Butanone(MEK)	< 10	< 10	< 10	< 10
Bromochloromethane	< 1	< 1	< 1	< 1
Tetrahydrofuran(THF)	< 10	< 10	< 10	< 10
Chloroform	< 1	< 1	< 1	< 1
1,1,1-Trichloroethane	< 1	< 1	< 1	< 1
Carbon tetrachloride	< 1	< 1	< 1	< 1
1,1-Dichloropropene	< 1	< 1	< 1	< 1
Benzene	< 1	< 1	< 1	< 1
1,2-Dichloroethane	< 1	< 1	< 1	< 1
Trichloroethene	< 1	< 1	< 1	< 1
1,2-Dichloropropane	< 1	< 1	< 1	< 1
Dibromomethane	< 1	< 1	< 1	< 1
Bromodichloromethane	< 0.5	< 0.5	< 0.5	< 0.5
1,4-Dioxane	< 50	< 50	< 50	< 50
4-Methyl-2-pentanone(MIBK)	< 10	< 10	< 10	< 10
cis-1,3-Dichloropropene	< 0.5	< 0.5	< 0.5	< 0.5
Toluene	< 1	< 1	< 1	< 1
trans-1,3-Dichloropropene	< 0.5	< 0.5	< 0.5	< 0.5
1,1,2-Trichloroethane	< 1	< 1	< 1	< 1
2-Hexanone	< 10	< 10	< 10	< 10
Tetrachloroethene	< 1	< 1	< 1	< 1
1,3-Dichloropropane	< 1	< 1	< 1	< 1
Dibromochloromethane	< 1	< 1	< 1	< 1
1,2-Dibromoethane(EDB)	< 0.5	< 0.5	< 0.5	< 0.5
Chlorobenzene	< 1	< 1	< 1	< 1
1,1,1,2-Tetrachloroethane	< 1	< 1	< 1	< 1



LABORATORY REPORT

EAI ID#: 258982

Client: **Enviro North American Consulting**

Client Designation: **SEVERINO PIT**

Sample ID:	MW-1	MW-2	MW-3	MW-4
Lab Sample ID:	258982.01	258982.02	258982.03	258982.04
Matrix:	aqueous	aqueous	aqueous	aqueous
Date Sampled:	4/20/23	4/20/23	4/20/23	4/20/23
Date Received:	4/20/23	4/20/23	4/20/23	4/20/23
Units:	ug/L	ug/L	ug/L	ug/L
Date of Analysis:	4/21/23	4/21/23	4/21/23	4/21/23
Analyst:	SG	SG	SG	SG
Method:	8260C	8260C	8260C	8260C
Dilution Factor:	1	1	1	1
Ethylbenzene	< 1	< 1	< 1	< 1
mp-Xylene	< 1	< 1	< 1	< 1
o-Xylene	< 1	< 1	< 1	< 1
Styrene	< 1	< 1	< 1	< 1
Bromoform	< 2	< 2	< 2	< 2
IsoPropylbenzene	< 1	< 1	< 1	< 1
Bromobenzene	< 1	< 1	< 1	< 1
1,1,2,2-Tetrachloroethane	< 1	< 1	< 1	< 1
1,2,3-Trichloropropane	< 0.5	< 0.5	< 0.5	< 0.5
n-Propylbenzene	< 1	< 1	< 1	< 1
2-Chlorotoluene	< 1	< 1	< 1	< 1
4-Chlorotoluene	< 1	< 1	< 1	< 1
1,3,5-Trimethylbenzene	< 1	< 1	< 1	< 1
tert-Butylbenzene	< 1	< 1	< 1	< 1
1,2,4-Trimethylbenzene	< 1	< 1	< 1	< 1
sec-Butylbenzene	< 1	< 1	< 1	< 1
1,3-Dichlorobenzene	< 1	< 1	< 1	< 1
p-Isopropyltoluene	< 1	< 1	< 1	< 1
1,4-Dichlorobenzene	< 1	< 1	< 1	< 1
1,2-Dichlorobenzene	< 1	< 1	< 1	< 1
n-Butylbenzene	< 1	< 1	< 1	< 1
1,2-Dibromo-3-chloropropane	< 2	< 2	< 2	< 2
1,3,5-Trichlorobenzene	< 1	< 1	< 1	< 1
1,2,4-Trichlorobenzene	< 1	< 1	< 1	< 1
Hexachlorobutadiene	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	< 2	< 2	< 2	< 2
1,2,3-Trichlorobenzene	< 0.5	< 0.5	< 0.5	< 0.5
4-Bromofluorobenzene (surr)	96 %R	97 %R	97 %R	97 %R
1,2-Dichlorobenzene-d4 (surr)	100 %R	100 %R	100 %R	100 %R
Toluene-d8 (surr)	97 %R	97 %R	95 %R	97 %R
1,2-Dichloroethane-d4 (surr)	101 %R	103 %R	106 %R	101 %R



LABORATORY REPORT

EAI ID#: 258982

Client: **Enviro North American Consulting**
Client Designation: **SEVERINO PIT**

Sample ID: Trip Blank

Lab Sample ID: 258982.05
Matrix: aqueous
Date Sampled: 4/20/23
Date Received: 4/20/23
Units: ug/L
Date of Analysis: 4/22/23
Analyst: SG
Method: 8260C
Dilution Factor: 1

Dichlorodifluoromethane	< 2
Chloromethane	< 2
Vinyl chloride	< 1
Bromomethane	< 2
Chloroethane	< 2
Trichlorofluoromethane	< 2
Diethyl Ether	< 2
Acetone	< 10
1,1-Dichloroethene	< 0.5
tert-Butyl Alcohol (TBA)	< 30
Methylene chloride	< 1
Carbon disulfide	< 2
Methyl-t-butyl ether(MTBE)	< 1
Ethyl-t-butyl ether(ETBE)	< 2
Isopropyl ether(DIPE)	< 2
tert-amyl methyl ether(TAME)	< 2
trans-1,2-Dichloroethene	< 1
1,1-Dichloroethane	< 1
2,2-Dichloropropane	< 1
cis-1,2-Dichloroethene	< 1
2-Butanone(MEK)	< 10
Bromochloromethane	< 1
Tetrahydrofuran(THF)	< 10
Chloroform	< 1
1,1,1-Trichloroethane	< 1
Carbon tetrachloride	< 1
1,1-Dichloropropene	< 1
Benzene	< 1
1,2-Dichloroethane	< 1
Trichloroethene	< 1
1,2-Dichloropropane	< 1
Dibromomethane	< 1
Bromodichloromethane	< 0.5
1,4-Dioxane	< 50
4-Methyl-2-pentanone(MIBK)	< 10
cis-1,3-Dichloropropene	< 0.5
Toluene	< 1
trans-1,3-Dichloropropene	< 0.5
1,1,2-Trichloroethane	< 1
2-Hexanone	< 10
Tetrachloroethene	< 1
1,3-Dichloropropane	< 1
Dibromochloromethane	< 1
1,2-Dibromoethane(EDB)	< 0.5
Chlorobenzene	< 1
1,1,1,2-Tetrachloroethane	< 1



LABORATORY REPORT

EAI ID#: 258982

Client: **Enviro North American Consulting**

Client Designation: **SEVERINO PIT**

Sample ID: Trip Blank

Lab Sample ID: 258982.05

Matrix: aqueous

Date Sampled: 4/20/23

Date Received: 4/20/23

Units: ug/L

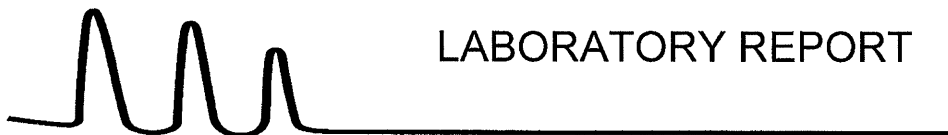
Date of Analysis: 4/22/23

Analyst: SG

Method: 8260C

Dilution Factor: 1

Ethylbenzene	< 1
mp-Xylene	< 1
o-Xylene	< 1
Styrene	< 1
Bromoform	< 2
IsoPropylbenzene	< 1
Bromobenzene	< 1
1,1,2,2-Tetrachloroethane	< 1
1,2,3-Trichloropropane	< 0.5
n-Propylbenzene	< 1
2-Chlorotoluene	< 1
4-Chlorotoluene	< 1
1,3,5-Trimethylbenzene	< 1
tert-Butylbenzene	< 1
1,2,4-Trimethylbenzene	< 1
sec-Butylbenzene	< 1
1,3-Dichlorobenzene	< 1
p-Isopropyltoluene	< 1
1,4-Dichlorobenzene	< 1
1,2-Dichlorobenzene	< 1
n-Butylbenzene	< 1
1,2-Dibromo-3-chloropropane	< 2
1,3,5-Trichlorobenzene	< 1
1,2,4-Trichlorobenzene	< 1
Hexachlorobutadiene	< 0.5
Naphthalene	< 2
1,2,3-Trichlorobenzene	< 0.5
4-Bromofluorobenzene (surr)	98 %R
1,2-Dichlorobenzene-d4 (surr)	100 %R
Toluene-d8 (surr)	94 %R
1,2-Dichloroethane-d4 (surr)	104 %R



LABORATORY REPORT

EAI ID#: **258982**

Client: **Enviro North American Consulting**

Client Designation: **SEVERINO PIT**

Sample ID:	MW-1	MW-2	MW-3	MW-4
Lab Sample ID:	258982.01	258982.02	258982.03	258982.04
Matrix:	aqueous	aqueous	aqueous	aqueous
Date Sampled:	4/20/23	4/20/23	4/20/23	4/20/23
Date Received:	4/20/23	4/20/23	4/20/23	4/20/23
Units:	ug/L	ug/L	ug/L	ug/L
Date of Extraction/Prep:	4/24/23	4/24/23	4/24/23	4/24/23
Date of Analysis:	4/26/23	4/26/23	4/26/23	4/26/23
Analyst:	JMR	JMR	JMR	JMR
Method:	8270E	8270E	8270E	8270E
Dilution Factor:	1	1	1	1
Naphthalene	< 0.1	< 0.1	< 0.1	< 0.1
2-Methylnaphthalene	< 0.1	< 0.1	< 0.1	< 0.1
1-Methylnaphthalene	< 0.1	< 0.1	< 0.1	< 0.1
Acenaphthylene	< 0.1	< 0.1	< 0.1	< 0.1
Acenaphthene	< 0.1	< 0.1	< 0.1	< 0.1
Fluorene	< 0.1	< 0.1	< 0.1	< 0.1
Phenanthrene	< 0.1	< 0.1	< 0.1	< 0.1
Anthracene	< 0.1	< 0.1	< 0.1	< 0.1
Fluoranthene	< 0.1	< 0.1	< 0.1	0.12
Pyrene	< 0.1	< 0.1	< 0.1	< 0.1
Benzo[a]anthracene	< 0.1	< 0.1	< 0.1	< 0.1
Chrysene	< 0.1	< 0.1	< 0.1	< 0.1
Benzo[b]fluoranthene	< 0.1	< 0.1	< 0.1	< 0.1
Benzo[k]fluoranthene	< 0.1	< 0.1	< 0.1	< 0.1
Benzo[a]pyrene	< 0.1	< 0.1	< 0.1	< 0.1
Indeno[1,2,3-cd]pyrene	< 0.1	< 0.1	< 0.1	< 0.1
Dibenz[a,h]anthracene	< 0.1	< 0.1	< 0.1	< 0.1
Benzo[g,h,i]perylene	< 0.1	< 0.1	< 0.1	< 0.1
p-Terphenyl-D14 (surr)	79 %R	82 %R	78 %R	77 %R

CHAIN-OF-CUSTODY RECORD

BOLD FIELDS REQUIRED. PLEASE CIRCLE REQUESTED ANALYSIS.

258982

SAMPLE I.D.	SAMPLING DATE/TIME *IF COMPOSITE, INDICATE BOTH START & FINISH DATE/TIME	MATRIX (SEE BELOW) G RAB/* COMPOSITE	VOC			SVOC			TCIP			INORGANICS			MICRO METALS			OTHER		NOTES MeOH Vial #							
			8015 GAO MAYPH	8015 DRO MAEPH	TPH8100 LI L2	PEST 608 PCB 8082	PEST 8081 PCB 8082	Oil & Grease 1664 TPH 1664	TCLP 1311 ABN METALS	VOC PEST HERB	BOD CBOD TDS	TS TSS F SO ₄	Ba Cl NO ₂ NO ₃	TKN NH ₃ TN	T. PHOS. O. PHOS.	pH T. RES. CHLORINE	SPEC. CON. T. ALK.	COD PHENOLS TOC DOC	Total Cyanide Total Sulfide		Reactive Cyanide Reactive Sulfide	Flashpoint Ignitability	Total Coliform E. Coli	Enterococci	Heterotrophic Plate Count	Dissolved Metals (List Below)	Total Metals (List Below)
MW-1	4/20/23 12:35	GW G	8021	8015 GAO MAYPH	TPH8100 LI L2	PEST 608 PCB 8082	PEST 8081 PCB 8082	Oil & Grease 1664 TPH 1664	TCLP 1311 ABN METALS	VOC PEST HERB	BOD CBOD TDS	Ba Cl NO ₂ NO ₃	TKN NH ₃ TN	T. PHOS. O. PHOS.	pH T. RES. CHLORINE	SPEC. CON. T. ALK.	COD PHENOLS TOC DOC	Total Cyanide Total Sulfide	Reactive Cyanide Reactive Sulfide	Flashpoint Ignitability	Total Coliform E. Coli	Enterococci	Heterotrophic Plate Count	Dissolved Metals (List Below)	Total Metals (List Below)	3	
MW-2	4/20/23 12:10	GW G	8021	8015 GAO MAYPH	TPH8100 LI L2	PEST 608 PCB 8082	PEST 8081 PCB 8082	Oil & Grease 1664 TPH 1664	TCLP 1311 ABN METALS	VOC PEST HERB	BOD CBOD TDS	Ba Cl NO ₂ NO ₃	TKN NH ₃ TN	T. PHOS. O. PHOS.	pH T. RES. CHLORINE	SPEC. CON. T. ALK.	COD PHENOLS TOC DOC	Total Cyanide Total Sulfide	Reactive Cyanide Reactive Sulfide	Flashpoint Ignitability	Total Coliform E. Coli	Enterococci	Heterotrophic Plate Count	Dissolved Metals (List Below)	Total Metals (List Below)	3	
MW-3	4/20/23 12:25	GW G	8021	8015 GAO MAYPH	TPH8100 LI L2	PEST 608 PCB 8082	PEST 8081 PCB 8082	Oil & Grease 1664 TPH 1664	TCLP 1311 ABN METALS	VOC PEST HERB	BOD CBOD TDS	Ba Cl NO ₂ NO ₃	TKN NH ₃ TN	T. PHOS. O. PHOS.	pH T. RES. CHLORINE	SPEC. CON. T. ALK.	COD PHENOLS TOC DOC	Total Cyanide Total Sulfide	Reactive Cyanide Reactive Sulfide	Flashpoint Ignitability	Total Coliform E. Coli	Enterococci	Heterotrophic Plate Count	Dissolved Metals (List Below)	Total Metals (List Below)	3	
MW-4	4/20/23 12:45	GW G	8021	8015 GAO MAYPH	TPH8100 LI L2	PEST 608 PCB 8082	PEST 8081 PCB 8082	Oil & Grease 1664 TPH 1664	TCLP 1311 ABN METALS	VOC PEST HERB	BOD CBOD TDS	Ba Cl NO ₂ NO ₃	TKN NH ₃ TN	T. PHOS. O. PHOS.	pH T. RES. CHLORINE	SPEC. CON. T. ALK.	COD PHENOLS TOC DOC	Total Cyanide Total Sulfide	Reactive Cyanide Reactive Sulfide	Flashpoint Ignitability	Total Coliform E. Coli	Enterococci	Heterotrophic Plate Count	Dissolved Metals (List Below)	Total Metals (List Below)	3	
TRIP BLANK	4/20/23 8:00	LL	8021	8015 GAO MAYPH	TPH8100 LI L2	PEST 608 PCB 8082	PEST 8081 PCB 8082	Oil & Grease 1664 TPH 1664	TCLP 1311 ABN METALS	VOC PEST HERB	BOD CBOD TDS	Ba Cl NO ₂ NO ₃	TKN NH ₃ TN	T. PHOS. O. PHOS.	pH T. RES. CHLORINE	SPEC. CON. T. ALK.	COD PHENOLS TOC DOC	Total Cyanide Total Sulfide	Reactive Cyanide Reactive Sulfide	Flashpoint Ignitability	Total Coliform E. Coli	Enterococci	Heterotrophic Plate Count	Dissolved Metals (List Below)	Total Metals (List Below)	2	

MATRIX: A-Air; S-Soil; GW-Ground Water; SW-Surface Water; DW-Drinking Water;
WW-Waste Water
PRESERVATIVE: H-HCl; N-HNO₃; S-H₂SO₄; Na-NaOH; M-MEoH

PROJECT MANAGER: LODD GREENWOOD
 COMPANY: ENAC
 ADDRESS: P.O. Box 1075 STATE: NH ZIP: 03809
 CITY: ACTON
 PHONE: 603-875-8100 EXT: _____
 E-MAIL: tag@metrecast.net
 SITE NAME: SEVERINO PIT

PROJECT #: _____
 STATE: NH MA ME VT OTHER: _____
 REGULATORY PROGRAM: NPDES: RGP POTW STORMWATER OR
GW, OIL FUND, BROWNFIELD OR OTHER:
 QUOTE #: _____ PO #: _____

METALS: 8 RCRA 13 PP Fe, Mn Pb, Cu
 OTHER METALS: _____
 SAMPLES FIELD FILTERED? YES NO
 NOTES: (i.e. SPECIAL DETECTION LIMITS, BILLING INFO, IF DIFFERENT)

BOTTLE ORDER # 4988
4-DAY T-A-T!

SITE HISTORY: _____
 SUSPECTED CONTAMINATION: _____
 FIELD READINGS: _____

QA/QC REPORTING
 A B C
 MA MCP
 TEMP: 27 °C
 ICE? YES NO

REPORTING OPTIONS
 PRELIMS: YES OR NO
 ELECTRONIC OPTIONS
 PDF EXCEL EQUIS
 OTHER: _____

TURN AROUND TIME
 24hr* 48hr*
 3-4 Days* 5 Day 7 Day 10 Day
 *Pre-approval Required

RELINQUISHED BY: Dena J. Wunsch DATE: 4/20/23 TIME: 15:47
 RECEIVED BY: [Signature]
 RELINQUISHED BY: _____ DATE: _____ TIME: _____
 RECEIVED BY: _____ DATE: _____ TIME: _____

Todd Greenwood
Enviro North American Consulting
PO Box 1075
Alton, NH 03809



Laboratory Report for:

Eastern Analytical, Inc. ID: 259978
Client Identification: SEVERINO PIT
Date Received: 5/9/2023
Report revision/reissue: Revision, replaces report dated 5/16/2023
Revision information: Per customers request, NO2 and NO3 have been reported separately.

Enclosed are the analytical results per the Chain of Custody for sample(s) in the referenced project. All analyses were performed in accordance with our QA/QC Program, NELAP and other applicable state requirements. All quality control criteria was within acceptance criteria unless noted on the report pages. Results are for the exclusive use of the client named on this report and will not be released to a third party without consent.

The following information is contained within this report: Sample Conditions summary, Analytical Results/Data, Quality Control data (if requested) and copies of the Chain of Custody. This report may not be reproduced except in full, without the written approval of the laboratory.

The following standard abbreviations and conventions apply to all EAI reports:

- < : "less than" followed by the reporting limit
- > : "greater than" followed by the reporting limit
- %R : % Recovery

Certifications:

Eastern Analytical, Inc. maintains certification in the following states: Connecticut (PH-0492), Maine (NH005), Massachusetts (M-NH005), New Hampshire/NELAP (1012), Rhode Island (269), Vermont (VT1012), New York (12072) and West Virginia (9910C). Please refer to our website at www.easternanalytical.com for a copy of our certificates and accredited parameters.

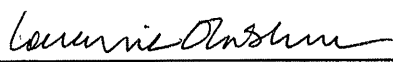
References:

- EPA 600/4-79-020, 1983
- Standard Methods for Examination of Water and Wastewater, 20th, 21st, 22nd & 23rd edition or noted revision year.
- Test Methods for Evaluating Solid Waste SW 846 3rd Edition including updates IVA and IVB
- Hach Water Analysis Handbook, 4th edition, 1992

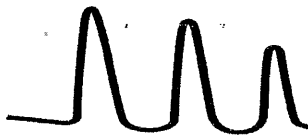
If you have any questions regarding the results contained within, please feel free to contact customer service. Unless otherwise requested, we will dispose of the sample(s) 6 weeks from the sample receipt date.

We appreciate this opportunity to be of service and look forward to your continued patronage.

Sincerely,


Lorraine Olashaw, Lab Director

5.18.23
Date



SAMPLE CONDITIONS PAGE

EAI ID#: 259978

Client: **Enviro North American Consulting**

Client Designation: **SEVERINO PIT**

Temperature upon receipt (°C): 4.7

Received on ice or cold packs (Yes/No): Y

Acceptable temperature range (°C): 0-6

Lab ID	Sample ID	Date Received	Date/Time Sampled	Sample Matrix	% Dry Weight	Exceptions/Comments (other than thermal preservation)
259978.01	MW-1	5/9/23	5/9/23 11:43	aqueous		Adheres to Sample Acceptance Policy
259978.02	MW-2	5/9/23	5/9/23 12:00	aqueous		Adheres to Sample Acceptance Policy
259978.03	MW-3	5/9/23	5/9/23 12:15	aqueous		Adheres to Sample Acceptance Policy
259978.04	MW-4	5/9/23	5/9/23 11:25	aqueous		Adheres to Sample Acceptance Policy
259978.05	TS-1	5/9/23	5/9/23 14:10	soil	92.5	Adheres to Sample Acceptance Policy
259978.06	TS-2	5/9/23	5/9/23 15:00	soil	95.9	Adheres to Sample Acceptance Policy
259978.07	TS-3	5/9/23	5/9/23 15:15	soil	94.5	Adheres to Sample Acceptance Policy
259978.08	CS-1	5/9/23	5/9/23 15:30	soil	96.1	Adheres to Sample Acceptance Policy
259978.09	CS-2	5/9/23	5/9/23 15:45	soil	91.4	Adheres to Sample Acceptance Policy
259978.1	Trip Blank	5/9/23	5/9/23 08:00	soil	100.0	Adheres to Sample Acceptance Policy

All results contained in this report relate only to the above listed samples.

Unless otherwise noted:

- Hold times, preservation, container types, and sample conditions adhered to EPA Protocol.
- Solid samples are reported on a dry weight basis, unless otherwise noted. pH/Corrosivity, Flashpoint, Ignitability, Paint Filter, Conductivity and Specific Gravity are always reported on an "as received" basis.
- Analysis of pH, Total Residual Chlorine, Dissolved Oxygen and Sulfite were performed at the laboratory outside of the recommended 15 minute hold time.
- Samples collected by Eastern Analytical, Inc. (EAI) were collected in accordance with approved EPA procedures.



LABORATORY REPORT

EAI ID#: 259978

Client: **Enviro North American Consulting**

Client Designation: **SEVERINO PIT**

Sample ID:	TS-1	TS-2	TS-3	CS-1
Lab Sample ID:	259978.05	259978.06	259978.07	259978.08
Matrix:	soil	soil	soil	soil
Date Sampled:	5/9/23	5/9/23	5/9/23	5/9/23
Date Received:	5/9/23	5/9/23	5/9/23	5/9/23
Units:	mg/kg	mg/kg	mg/kg	mg/kg
Date of Analysis:	5/11/23	5/11/23	5/11/23	5/11/23
Analyst:	JAK	JAK	JAK	JAK
Method:	8260C	8260C	8260C	8260C
Dilution Factor:	1	1	1	1
Dichlorodifluoromethane	< 0.1	< 0.1	< 0.1	< 0.1
Chloromethane	< 0.1	< 0.1	< 0.1	< 0.1
Vinyl chloride	< 0.02	< 0.02	< 0.02	< 0.02
Bromomethane	< 0.1	< 0.1	< 0.1	< 0.1
Chloroethane	< 0.1	< 0.1	< 0.1	< 0.1
Trichlorofluoromethane	< 0.1	< 0.1	< 0.1	< 0.1
Diethyl Ether	< 0.05	< 0.05	< 0.05	< 0.05
Acetone	< 2	< 2	< 2	< 2
1,1-Dichloroethene	< 0.05	< 0.05	< 0.05	< 0.05
tert-Butyl Alcohol (TBA)	< 2	< 2	< 2	< 2
Methylene chloride	< 0.1	< 0.1	< 0.1	< 0.1
Carbon disulfide	< 0.1	< 0.1	< 0.1	< 0.1
Methyl-t-butyl ether(MTBE)	< 0.1	< 0.1	< 0.1	< 0.1
Ethyl-t-butyl ether(ETBE)	< 0.1	< 0.1	< 0.1	< 0.1
Isopropyl ether(DIPE)	< 0.1	< 0.1	< 0.1	< 0.1
tert-amyl methyl ether(TAME)	< 0.1	< 0.1	< 0.1	< 0.1
trans-1,2-Dichloroethene	< 0.05	< 0.05	< 0.05	< 0.05
1,1-Dichloroethane	< 0.05	< 0.05	< 0.05	< 0.05
2,2-Dichloropropane	< 0.05	< 0.05	< 0.05	< 0.05
cis-1,2-Dichloroethene	< 0.05	< 0.05	< 0.05	< 0.05
2-Butanone(MEK)	< 0.5	< 0.5	< 0.5	< 0.5
Bromochloromethane	< 0.05	< 0.05	< 0.05	< 0.05
Tetrahydrofuran(THF)	< 0.5	< 0.5	< 0.5	< 0.5
Chloroform	< 0.05	< 0.05	< 0.05	< 0.05
1,1,1-Trichloroethane	< 0.05	< 0.05	< 0.05	< 0.05
Carbon tetrachloride	< 0.05	< 0.05	< 0.05	< 0.05
1,1-Dichloropropene	< 0.05	< 0.05	< 0.05	< 0.05
Benzene	< 0.05	< 0.05	< 0.05	< 0.05
1,2-Dichloroethane	< 0.05	< 0.05	< 0.05	< 0.05
Trichloroethene	< 0.05	< 0.05	< 0.05	0.12
1,2-Dichloropropane	< 0.05	< 0.05	< 0.05	< 0.05
Dibromomethane	< 0.05	< 0.05	< 0.05	< 0.05
Bromodichloromethane	< 0.05	< 0.05	< 0.05	< 0.05
1,4-Dioxane	< 1	< 1	< 1	< 1
4-Methyl-2-pentanone(MIBK)	< 0.5	< 0.5	< 0.5	< 0.5
cis-1,3-Dichloropropene	< 0.05	< 0.05	< 0.05	< 0.05
Toluene	< 0.05	< 0.05	< 0.05	< 0.05
trans-1,3-Dichloropropene	< 0.05	< 0.05	< 0.05	< 0.05
1,1,2-Trichloroethane	< 0.05	< 0.05	< 0.05	< 0.05
2-Hexanone	< 0.1	< 0.1	< 0.1	< 0.1
Tetrachloroethene	< 0.05	< 0.05	< 0.05	< 0.05
1,3-Dichloropropane	< 0.05	< 0.05	< 0.05	< 0.05
Dibromochloromethane	< 0.05	< 0.05	< 0.05	< 0.05
1,2-Dibromoethane(EDB)	< 0.02	< 0.02	< 0.02	< 0.02
Chlorobenzene	< 0.05	< 0.05	< 0.05	< 0.05
1,1,1,2-Tetrachloroethane	< 0.05	< 0.05	< 0.05	< 0.05



LABORATORY REPORT

EAI ID#: 259978

Client: Enviro North American Consulting

Client Designation: SEVERINO PIT

Sample ID:	TS-1	TS-2	TS-3	CS-1
Lab Sample ID:	259978.05	259978.06	259978.07	259978.08
Matrix:	soil	soil	soil	soil
Date Sampled:	5/9/23	5/9/23	5/9/23	5/9/23
Date Received:	5/9/23	5/9/23	5/9/23	5/9/23
Units:	mg/kg	mg/kg	mg/kg	mg/kg
Date of Analysis:	5/11/23	5/11/23	5/11/23	5/11/23
Analyst:	JAK	JAK	JAK	JAK
Method:	8260C	8260C	8260C	8260C
Dilution Factor:	1	1	1	1
Ethylbenzene	< 0.05	< 0.05	< 0.05	< 0.05
mp-Xylene	< 0.05	< 0.05	< 0.05	< 0.05
o-Xylene	< 0.05	< 0.05	< 0.05	< 0.05
Styrene	< 0.05	< 0.05	< 0.05	< 0.05
Bromoform	< 0.05	< 0.05	< 0.05	< 0.05
IsoPropylbenzene	< 0.05	< 0.05	< 0.05	< 0.05
Bromobenzene	< 0.05	< 0.05	< 0.05	< 0.05
1,1,2,2-Tetrachloroethane	< 0.05	< 0.05	< 0.05	< 0.05
1,2,3-Trichloropropane	< 0.05	< 0.05	< 0.05	< 0.05
n-Propylbenzene	< 0.05	< 0.05	< 0.05	< 0.05
2-Chlorotoluene	< 0.05	< 0.05	< 0.05	< 0.05
4-Chlorotoluene	< 0.05	< 0.05	< 0.05	< 0.05
1,3,5-Trimethylbenzene	< 0.05	< 0.05	< 0.05	< 0.05
tert-Butylbenzene	< 0.05	< 0.05	< 0.05	< 0.05
1,2,4-Trimethylbenzene	< 0.05	< 0.05	< 0.05	< 0.05
sec-Butylbenzene	< 0.05	< 0.05	< 0.05	< 0.05
1,3-Dichlorobenzene	< 0.05	< 0.05	< 0.05	< 0.05
p-Isopropyltoluene	< 0.05	< 0.05	< 0.05	< 0.05
1,4-Dichlorobenzene	< 0.05	< 0.05	< 0.05	< 0.05
1,2-Dichlorobenzene	< 0.05	< 0.05	< 0.05	< 0.05
n-Butylbenzene	< 0.05	< 0.05	< 0.05	< 0.05
1,2-Dibromo-3-chloropropane	< 0.05	< 0.05	< 0.05	< 0.05
1,3,5-Trichlorobenzene	< 0.05	< 0.05	< 0.05	< 0.05
1,2,4-Trichlorobenzene	< 0.05	< 0.05	< 0.05	< 0.05
Hexachlorobutadiene	< 0.05	< 0.05	< 0.05	< 0.05
Naphthalene	< 0.1	< 0.1	< 0.1	< 0.1
1,2,3-Trichlorobenzene	< 0.05	< 0.05	< 0.05	< 0.05
4-Bromofluorobenzene (surr)	82 %R	83 %R	82 %R	84 %R
1,2-Dichlorobenzene-d4 (surr)	100 %R	100 %R	101 %R	100 %R
Toluene-d8 (surr)	93 %R	92 %R	93 %R	93 %R
1,2-Dichloroethane-d4 (surr)	96 %R	95 %R	96 %R	96 %R



LABORATORY REPORT

EAI ID#: 259978

Client: **Enviro North American Consulting**

Client Designation: **SEVERINO PIT**

Sample ID:	CS-2	Trip Blank
Lab Sample ID:	259978.09	259978.1
Matrix:	soil	soil
Date Sampled:	5/9/23	5/9/23
Date Received:	5/9/23	5/9/23
Units:	mg/kg	mg/kg
Date of Analysis:	5/11/23	5/10/23
Analyst:	JAK	JAK
Method:	8260C	8260C
Dilution Factor:	1	1
Dichlorodifluoromethane	< 0.1	< 0.1
Chloromethane	< 0.1	< 0.1
Vinyl chloride	< 0.02	< 0.02
Bromomethane	< 0.1	< 0.1
Chloroethane	< 0.1	< 0.1
Trichlorofluoromethane	< 0.1	< 0.1
Diethyl Ether	< 0.05	< 0.05
Acetone	< 2	< 2
1,1-Dichloroethene	< 0.05	< 0.05
tert-Butyl Alcohol (TBA)	< 2	< 2
Methylene chloride	< 0.1	< 0.1
Carbon disulfide	< 0.1	< 0.1
Methyl-t-butyl ether(MTBE)	< 0.1	< 0.1
Ethyl-t-butyl ether(ETBE)	< 0.1	< 0.1
Isopropyl ether(DIPE)	< 0.1	< 0.1
tert-amyl methyl ether(TAME)	< 0.1	< 0.1
trans-1,2-Dichloroethene	< 0.05	< 0.05
1,1-Dichloroethane	< 0.05	< 0.05
2,2-Dichloropropane	< 0.05	< 0.05
cis-1,2-Dichloroethene	< 0.05	< 0.05
2-Butanone(MEK)	< 0.5	< 0.5
Bromochloromethane	< 0.05	< 0.05
Tetrahydrofuran(THF)	< 0.5	< 0.5
Chloroform	< 0.05	< 0.05
1,1,1-Trichloroethane	< 0.05	< 0.05
Carbon tetrachloride	< 0.05	< 0.05
1,1-Dichloropropene	< 0.05	< 0.05
Benzene	< 0.05	< 0.05
1,2-Dichloroethane	< 0.05	< 0.05
Trichloroethene	< 0.05	< 0.05
1,2-Dichloropropane	< 0.05	< 0.05
Dibromomethane	< 0.05	< 0.05
Bromodichloromethane	< 0.05	< 0.05
1,4-Dioxane	< 1	< 1
4-Methyl-2-pentanone(MIBK)	< 0.5	< 0.5
cis-1,3-Dichloropropene	< 0.05	< 0.05
Toluene	< 0.05	< 0.05
trans-1,3-Dichloropropene	< 0.05	< 0.05
1,1,2-Trichloroethane	< 0.05	< 0.05
2-Hexanone	< 0.1	< 0.1
Tetrachloroethene	< 0.05	< 0.05
1,3-Dichloropropane	< 0.05	< 0.05
Dibromochloromethane	< 0.05	< 0.05
1,2-Dibromoethane(EDB)	< 0.02	< 0.02
Chlorobenzene	< 0.05	< 0.05
1,1,1,2-Tetrachloroethane	< 0.05	< 0.05



LABORATORY REPORT

EAI ID#: 259978

Client: **Enviro North American Consulting**

Client Designation: **SEVERINO PIT**

Sample ID:	CS-2	Trip Blank
Lab Sample ID:	259978.09	259978.1
Matrix:	soil	soil
Date Sampled:	5/9/23	5/9/23
Date Received:	5/9/23	5/9/23
Units:	mg/kg	mg/kg
Date of Analysis:	5/11/23	5/10/23
Analyst:	JAK	JAK
Method:	8260C	8260C
Dilution Factor:	1	1
Ethylbenzene	< 0.05	< 0.05
mp-Xylene	< 0.05	< 0.05
o-Xylene	< 0.05	< 0.05
Styrene	< 0.05	< 0.05
Bromoform	< 0.05	< 0.05
IsoPropylbenzene	< 0.05	< 0.05
Bromobenzene	< 0.05	< 0.05
1,1,2,2-Tetrachloroethane	< 0.05	< 0.05
1,2,3-Trichloropropane	< 0.05	< 0.05
n-Propylbenzene	< 0.05	< 0.05
2-Chlorotoluene	< 0.05	< 0.05
4-Chlorotoluene	< 0.05	< 0.05
1,3,5-Trimethylbenzene	< 0.05	< 0.05
tert-Butylbenzene	< 0.05	< 0.05
1,2,4-Trimethylbenzene	< 0.05	< 0.05
sec-Butylbenzene	< 0.05	< 0.05
1,3-Dichlorobenzene	< 0.05	< 0.05
p-Isopropyltoluene	< 0.05	< 0.05
1,4-Dichlorobenzene	< 0.05	< 0.05
1,2-Dichlorobenzene	< 0.05	< 0.05
n-Butylbenzene	< 0.05	< 0.05
1,2-Dibromo-3-chloropropane	< 0.05	< 0.05
1,3,5-Trichlorobenzene	< 0.05	< 0.05
1,2,4-Trichlorobenzene	< 0.05	< 0.05
Hexachlorobutadiene	< 0.05	< 0.05
Naphthalene	< 0.1	< 0.1
1,2,3-Trichlorobenzene	< 0.05	< 0.05
4-Bromofluorobenzene (surr)	84 %R	88 %R
1,2-Dichlorobenzene-d4 (surr)	100 %R	98 %R
Toluene-d8 (surr)	93 %R	94 %R
1,2-Dichloroethane-d4 (surr)	96 %R	92 %R



LABORATORY REPORT

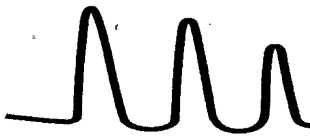
EAI ID#: **259978**

Client: **Enviro North American Consulting**

Client Designation: **SEVERINO PIT**

Sample ID:	TS-1	TS-2	TS-3	CS-1
Lab Sample ID:	259978.05	259978.06	259978.07	259978.08
Matrix:	soil	soil	soil	soil
Date Sampled:	5/9/23	5/9/23	5/9/23	5/9/23
Date Received:	5/9/23	5/9/23	5/9/23	5/9/23
Units:	mg/kg	mg/kg	mg/kg	mg/kg
Date of Extraction/Prep:	5/10/23	5/10/23	5/10/23	5/10/23
Date of Analysis:	5/11/23	5/11/23	5/11/23	5/11/23
Analyst:	JMR	JMR	JMR	JMR
Method:	8270E	8270E	8270E	8270E
Dilution Factor:	1	1	1	5
Naphthalene	< 0.07	< 0.07	< 0.07	< 0.4
2-Methylnaphthalene	< 0.07	< 0.07	< 0.07	< 0.4
1-Methylnaphthalene	< 0.07	< 0.07	< 0.07	< 0.4
Acenaphthylene	< 0.07	< 0.07	< 0.07	< 0.4
Acenaphthene	< 0.07	< 0.07	< 0.07	< 0.4
Fluorene	< 0.07	< 0.07	< 0.07	< 0.4
Phenanthrene	< 0.07	< 0.07	< 0.07	0.61
Anthracene	< 0.07	< 0.07	< 0.07	< 0.4
Fluoranthene	< 0.07	< 0.07	< 0.07	1.6
Pyrene	< 0.07	< 0.07	< 0.07	1.2
Benzo[a]anthracene	< 0.07	< 0.07	< 0.07	0.72
Chrysene	< 0.07	< 0.07	< 0.07	0.87
Benzo[b]fluoranthene	< 0.07	< 0.07	< 0.07	1.2
Benzo[k]fluoranthene	< 0.07	< 0.07	< 0.07	0.43
Benzo[a]pyrene	< 0.07	< 0.07	< 0.07	0.79
Indeno[1,2,3-cd]pyrene	< 0.07	< 0.07	< 0.07	< 0.4
Dibenz[a,h]anthracene	< 0.07	< 0.07	< 0.07	< 0.4
Benzo[g,h,i]perylene	< 0.07	< 0.07	< 0.07	< 0.4
p-Terphenyl-D14 (surr)	68 %R	70 %R	71 %R	86 %R

CS-1: Detection limits elevated due to higher than normal final extract volume.



LABORATORY REPORT

EAI ID#: 259978

Client: **Enviro North American Consulting**

Client Designation: **SEVERINO PIT**

Sample ID: CS-2

Lab Sample ID: 259978.09
Matrix: soil
Date Sampled: 5/9/23
Date Received: 5/9/23
Units: mg/kg
Date of Extraction/Prep: 5/10/23
Date of Analysis: 5/11/23
Analyst: JMR
Method: 8270E
Dilution Factor: 1

Naphthalene	< 0.08
2-Methylnaphthalene	< 0.08
1-Methylnaphthalene	< 0.08
Acenaphthylene	< 0.08
Acenaphthene	< 0.08
Fluorene	< 0.08
Phenanthrene	< 0.08
Anthracene	< 0.08
Fluoranthene	0.16
Pyrene	0.13
Benzo[a]anthracene	< 0.08
Chrysene	0.085
Benzo[b]fluoranthene	0.13
Benzo[k]fluoranthene	< 0.08
Benzo[a]pyrene	0.088
Indeno[1,2,3-cd]pyrene	< 0.08
Dibenz[a,h]anthracene	< 0.08
Benzo[g,h,i]perylene	< 0.08
p-Terphenyl-D14 (surr)	64 %R



LABORATORY REPORT

EAI ID#: **259978**

Client: **Enviro North American Consulting**

Client Designation: **SEVERINO PIT**

Sample ID:	TS-1	TS-2	TS-3	CS-1
Lab Sample ID:	259978.05	259978.06	259978.07	259978.08
Matrix:	soil	soil	soil	soil
Date Sampled:	5/9/23	5/9/23	5/9/23	5/9/23
Date Received:	5/9/23	5/9/23	5/9/23	5/9/23
Units:	mg/kg	mg/kg	mg/kg	mg/kg
Date of Extraction/Prep:	5/10/23	5/10/23	5/10/23	5/10/23
Date of Analysis:	5/10/23	5/10/23	5/10/23	5/10/23
Analyst:	MB	MB	MB	MB
Method:	8015CDRO	8015CDRO	8015CDRO	8015CDRO
Dilution Factor:	1	1	1	5
DRO (Diesel Range C10-C28)	< 30	< 30	< 30	< 200
p-Terphenyl-D14 (surr)	84 %R	79 %R	84 %R	98 %R

CS-1: Detection limits elevated due to higher than normal final extract volume.



LABORATORY REPORT

EAI ID#: 259978

Client: **Enviro North American Consulting**

Client Designation: **SEVERINO PIT**

Sample ID: CS-2

Lab Sample ID: 259978.09

Matrix: soil

Date Sampled: 5/9/23

Date Received: 5/9/23

Units: mg/kg

Date of Extraction/Prep: 5/10/23

Date of Analysis: 5/10/23

Analyst: MB

Method: 8015CDRO

Dilution Factor: 1

DRO (Diesel Range C10-C28) < 30

p-Terphenyl-D14 (surr) 87 %R



LABORATORY REPORT

EAI ID#: 259978

Client: **Enviro North American Consulting**

Client Designation: **SEVERINO PIT**

Sample ID:	MW-1	MW-2	MW-3	MW-4					
Lab Sample ID:	259978.01	259978.02	259978.03	259978.04					
Matrix:	aqueous	aqueous	aqueous	aqueous					
Date Sampled:	5/9/23	5/9/23	5/9/23	5/9/23	Analysis				
Date Received:	5/9/23	5/9/23	5/9/23	5/9/23	Units	Date	Time	Method	Analyst
Ammonia-N	< 0.05	< 0.05	0.10	< 0.05	mg/L	5/12/23	14:53	TM NH3-001	GRS
Total Phosphorus-P	0.32	1.1	0.088	0.34	mg/L	5/11/23	14:24	365.1	PMC
Nitrite-N	< 0.5	< 0.5	< 0.5	< 0.5	mg/L	5/10/23	13:19	353.2	ALM
Nitrate-N	< 0.5	6.0	< 0.5	< 0.5	mg/L	5/10/23	13:19	353.2	ALM



LABORATORY REPORT

EAI ID#: 259978

Client: **Enviro North American Consulting**

Client Designation: **SEVERINO PIT**

Sample ID:	MW-1	MW-2	MW-3	MW-4					
Lab Sample ID:	259978.01	259978.02	259978.03	259978.04					
Matrix:	aqueous	aqueous	aqueous	aqueous					
Date Sampled:	5/9/23	5/9/23	5/9/23	5/9/23	Analytical		Date of		
Date Received:	5/9/23	5/9/23	5/9/23	5/9/23	Matrix	Units	Analysis	Method	Analyst
Arsenic	< 0.0005	0.00084	0.00091	< 0.0005	AqDis	mg/L	5/11/23	200.8	DS
Barium	0.0081	0.020	0.0080	0.12	AqDis	mg/L	5/11/23	200.8	DS
Cadmium	< 0.001	< 0.001	< 0.001	< 0.001	AqDis	mg/L	5/11/23	200.8	DS
Chromium	< 0.001	< 0.001	< 0.001	< 0.001	AqDis	mg/L	5/11/23	200.8	DS
Lead	< 0.001	< 0.001	< 0.001	< 0.001	AqDis	mg/L	5/11/23	200.8	DS
Mercury	< 0.0001	< 0.0001	< 0.0001	< 0.0001	AqDis	mg/L	5/11/23	200.8	DS
Selenium	< 0.001	< 0.001	< 0.001	< 0.001	AqDis	mg/L	5/11/23	200.8	DS
Silver	< 0.001	< 0.001	< 0.001	< 0.001	AqDis	mg/L	5/11/23	200.8	DS



LABORATORY REPORT

EAI ID#: 259978

Client: **Enviro North American Consulting**

Client Designation: **SEVERINO PIT**

Sample ID:	TS-1	TS-2	TS-3	CS-1					
Lab Sample ID:	259978.05	259978.06	259978.07	259978.08					
Matrix:	soil	soil	soil	soil					
Date Sampled:	5/9/23	5/9/23	5/9/23	5/9/23	Analytical		Date of		
Date Received:	5/9/23	5/9/23	5/9/23	5/9/23	Matrix	Units	Analysis	Method	Analyst
Arsenic	22	16	15	7.8	SolTotDry	mg/kg	5/11/23	6020A	DS
Barium	36	15	14	40	SolTotDry	mg/kg	5/11/23	6020A	DS
Cadmium	< 0.5	< 0.5	< 0.5	< 0.5	SolTotDry	mg/kg	5/11/23	6020A	DS
Chromium	13	5.3	4.5	18	SolTotDry	mg/kg	5/11/23	6020A	DS
Lead	6.0	4.1	3.2	28	SolTotDry	mg/kg	5/11/23	6020A	DS
Mercury	< 0.1	< 0.1	< 0.1	0.16	SolTotDry	mg/kg	5/11/23	6020A	DS
Selenium	< 0.5	< 0.5	< 0.5	< 0.5	SolTotDry	mg/kg	5/11/23	6020A	DS
Silver	< 0.5	< 0.5	< 0.5	< 0.5	SolTotDry	mg/kg	5/11/23	6020A	DS

Sample ID:	CS-2							
Lab Sample ID:	259978.09							
Matrix:	soil							
Date Sampled:	5/9/23			Analytical		Date of		
Date Received:	5/9/23			Matrix	Units	Analysis		
						Method		
						Analyst		
Arsenic	16			SolTotDry	mg/kg	5/11/23	6020A	DS
Barium	24			SolTotDry	mg/kg	5/11/23	6020A	DS
Cadmium	< 0.5			SolTotDry	mg/kg	5/11/23	6020A	DS
Chromium	8.9			SolTotDry	mg/kg	5/11/23	6020A	DS
Lead	17			SolTotDry	mg/kg	5/11/23	6020A	DS
Mercury	< 0.1			SolTotDry	mg/kg	5/11/23	6020A	DS
Selenium	< 0.5			SolTotDry	mg/kg	5/11/23	6020A	DS
Silver	< 0.5			SolTotDry	mg/kg	5/11/23	6020A	DS

May 22, 2023

Todd Greenwood
Environmental N. American Consulting
Po Box 1075
Alton, NH 03809

Project Location: Raymond, NH
Client Job Number:
Project Number: [none]
Laboratory Work Order Number: 23E1290

Enclosed are results of analyses for samples as received by the laboratory on May 9, 2023. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Jordan Zoe Ross
Project Manager

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Environmental N. American Consulting
 Po Box 1075
 Alton, NH 03809
 ATTN: Todd Greenwood

REPORT DATE: 5/22/2023

PURCHASE ORDER NUMBER:

PROJECT NUMBER: [none]

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 23E1290

The results of analyses performed on the following samples submitted to CON-TEST, a Pace Analytical Laboratory, are found in this report.

PROJECT LOCATION: Raymond, NH

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
MW-1	23E1290-01	Ground Water		EPA 537.1	
MW-2	23E1290-02	Ground Water		EPA 537.1	
MW-3	23E1290-03	Ground Water		EPA 537.1	
MW-4	23E1290-04	Ground Water		EPA 537.1	

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

EPA 537.1

Qualifications:

L-04

Laboratory fortified blank/laboratory control sample recovery and duplicate recovery are outside of control limits. Reported value for this compound is likely to be biased on the low side.

Analyte & Samples(s) Qualified:

Perfluorododecanoic acid (PFDDA)

23E1290-04[MW-4], B339913-BS1, B339913-BSD1

Perfluorotetradecanoic acid (PFTA)

23E1290-04[MW-4], B339913-BS1, B339913-BSD1

Perfluorotridecanoic acid (PFTrDA)

23E1290-04[MW-4], B339913-BS1, B339913-BSD1

L-07

Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD between the two LFB/LCS results is within method specified criteria.

Analyte & Samples(s) Qualified:

11Cl-PF3OUdS (F53B Major)

23E1290-04[MW-4], B339913-BSD1

PF-02B

Surrogate recovery is outside of control limits. Re-extraction yielded different surrogate non-conformance. Both results reported.

Analyte & Samples(s) Qualified:

13C-PFDA

23E1290-04[MW-4]

13C-PFHxA

23E1290-04RE1[MW-4]

M3HFPO-DA

23E1290-04RE1[MW-4]

The results of analyses reported only relate to samples submitted to Con-Test, a Pace Analytical Laboratory, for testing.

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.



Meghan E. Kelley
Reporting Specialist

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Raymond, NH

Sample Description:

Work Order: 23E1290

Date Received: 5/9/2023

Field Sample #: MW-1

Sampled: 5/9/2023 10:40

Sample ID: 23E1290-01

Sample Matrix: Ground Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanesulfonic acid (PFBS)	0.72	1.7	0.69	ng/L	1	J	EPA 537.1	5/16/23	5/17/23 12:50	JR2
Perfluorohexanoic acid (PFHxA)	ND	1.7	0.82	ng/L	1		EPA 537.1	5/16/23	5/17/23 12:50	JR2
Perfluorohexanesulfonic acid (PFHxS)	ND	1.7	0.78	ng/L	1		EPA 537.1	5/16/23	5/17/23 12:50	JR2
Perfluoroheptanoic acid (PFHpA)	ND	1.7	0.87	ng/L	1		EPA 537.1	5/16/23	5/17/23 12:50	JR2
Perfluorooctanoic acid (PFOA)	ND	1.7	0.90	ng/L	1		EPA 537.1	5/16/23	5/17/23 12:50	JR2
Perfluorooctanesulfonic acid (PFOS)	1.1	1.7	0.66	ng/L	1	J	EPA 537.1	5/16/23	5/17/23 12:50	JR2
Perfluorononanoic acid (PFNA)	ND	1.7	0.80	ng/L	1		EPA 537.1	5/16/23	5/17/23 12:50	JR2
Perfluorodecanoic acid (PFDA)	ND	1.7	0.84	ng/L	1		EPA 537.1	5/16/23	5/17/23 12:50	JR2
N-EtFOSAA (NEtFOSAA)	ND	1.7	0.58	ng/L	1		EPA 537.1	5/16/23	5/17/23 12:50	JR2
Perfluoroundecanoic acid (PFUnA)	ND	1.7	0.66	ng/L	1		EPA 537.1	5/16/23	5/17/23 12:50	JR2
N-MeFOSAA (NMeFOSAA)	ND	1.7	0.65	ng/L	1		EPA 537.1	5/16/23	5/17/23 12:50	JR2
Perfluorododecanoic acid (PFDoA)	ND	1.7	0.63	ng/L	1		EPA 537.1	5/16/23	5/17/23 12:50	JR2
Perfluorotridecanoic acid (PFTriDA)	ND	1.7	0.64	ng/L	1		EPA 537.1	5/16/23	5/17/23 12:50	JR2
Perfluorotetradecanoic acid (PFTEA)	ND	1.7	0.73	ng/L	1		EPA 537.1	5/16/23	5/17/23 12:50	JR2
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.7	1.1	ng/L	1		EPA 537.1	5/16/23	5/17/23 12:50	JR2
11Cl-PF3OUdS (F53B Major)	ND	1.7	0.58	ng/L	1		EPA 537.1	5/16/23	5/17/23 12:50	JR2
9Cl-PF3ONS (F53B Minor)	ND	1.7	0.71	ng/L	1		EPA 537.1	5/16/23	5/17/23 12:50	JR2
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.7	0.77	ng/L	1		EPA 537.1	5/16/23	5/17/23 12:50	JR2

Surrogates	% Recovery	Recovery Limits	Flag/Qual
13C-PFHxA	84.3	70-130	5/17/23 12:50
M3HFPO-DA	97.3	70-130	5/17/23 12:50
13C-PFDA	129	70-130	5/17/23 12:50
D5-NEtFOSAA	102	70-130	5/17/23 12:50

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Project Location: Raymond, NH

Sample Description:

Work Order: 23E1290

Date Received: 5/9/2023

Field Sample #: MW-2

Sampled: 5/9/2023 10:50

Sample ID: 23E1290-02

Sample Matrix: Ground Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanesulfonic acid (PFBS)	ND	1.8	0.72	ng/L	1		EPA 537.1	5/16/23	5/17/23 12:04	JR2
Perfluorohexanoic acid (PFHxA)	ND	1.8	0.86	ng/L	1		EPA 537.1	5/16/23	5/17/23 12:04	JR2
Perfluorohexanesulfonic acid (PFHxS)	ND	1.8	0.82	ng/L	1		EPA 537.1	5/16/23	5/17/23 12:04	JR2
Perfluoroheptanoic acid (PFHpA)	ND	1.8	0.91	ng/L	1		EPA 537.1	5/16/23	5/17/23 12:04	JR2
Perfluorooctanoic acid (PFOA)	ND	1.8	0.95	ng/L	1		EPA 537.1	5/16/23	5/17/23 12:04	JR2
Perfluorooctanesulfonic acid (PFOS)	0.72	1.8	0.70	ng/L	1	J	EPA 537.1	5/16/23	5/17/23 12:04	JR2
Perfluorononanoic acid (PFNA)	ND	1.8	0.85	ng/L	1		EPA 537.1	5/16/23	5/17/23 12:04	JR2
Perfluorodecanoic acid (PFDA)	ND	1.8	0.88	ng/L	1		EPA 537.1	5/16/23	5/17/23 12:04	JR2
N-EtFOSAA (NEtFOSAA)	ND	1.8	0.61	ng/L	1		EPA 537.1	5/16/23	5/17/23 12:04	JR2
Perfluoroundecanoic acid (PFUnA)	ND	1.8	0.70	ng/L	1		EPA 537.1	5/16/23	5/17/23 12:04	JR2
N-MeFOSAA (NMeFOSAA)	ND	1.8	0.68	ng/L	1		EPA 537.1	5/16/23	5/17/23 12:04	JR2
Perfluorododecanoic acid (PFDoA)	ND	1.8	0.66	ng/L	1		EPA 537.1	5/16/23	5/17/23 12:04	JR2
Perfluorotridecanoic acid (PFTriDA)	ND	1.8	0.67	ng/L	1		EPA 537.1	5/16/23	5/17/23 12:04	JR2
Perfluorotetradecanoic acid (PFTA)	ND	1.8	0.77	ng/L	1		EPA 537.1	5/16/23	5/17/23 12:04	JR2
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.8	1.1	ng/L	1		EPA 537.1	5/16/23	5/17/23 12:04	JR2
11Cl-PF3OUdS (F53B Major)	ND	1.8	0.61	ng/L	1		EPA 537.1	5/16/23	5/17/23 12:04	JR2
9Cl-PF3ONS (F53B Minor)	ND	1.8	0.75	ng/L	1		EPA 537.1	5/16/23	5/17/23 12:04	JR2
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.8	0.81	ng/L	1		EPA 537.1	5/16/23	5/17/23 12:04	JR2

Surrogates	% Recovery	Recovery Limits	Flag/Qual
13C-PFHxA	77.8	70-130	5/17/23 12:04
M3HFPO-DA	91.9	70-130	5/17/23 12:04
13C-PFDA	113	70-130	5/17/23 12:04
D5-NEtFOSAA	104	70-130	5/17/23 12:04

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Project Location: Raymond, NH

Sample Description:

Work Order: 23E1290

Date Received: 5/9/2023

Field Sample #: MW-3

Sampled: 5/9/2023 11:05

Sample ID: 23E1290-03

Sample Matrix: Ground Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanesulfonic acid (PFBS)	0.86	1.8	0.73	ng/L	1	J	EPA 537.1	5/16/23	5/17/23 12:57	JR2
Perfluorohexanoic acid (PFHxA)	0.99	1.8	0.86	ng/L	1	J	EPA 537.1	5/16/23	5/17/23 12:57	JR2
Perfluorohexanesulfonic acid (PFHxS)	1.0	1.8	0.83	ng/L	1	J	EPA 537.1	5/16/23	5/17/23 12:57	JR2
Perfluoroheptanoic acid (PFHpA)	1.5	1.8	0.92	ng/L	1	J	EPA 537.1	5/16/23	5/17/23 12:57	JR2
Perfluorooctanoic acid (PFOA)	1.6	1.8	0.95	ng/L	1	J	EPA 537.1	5/16/23	5/17/23 12:57	JR2
Perfluorooctanesulfonic acid (PFOS)	1.1	1.8	0.70	ng/L	1	J	EPA 537.1	5/16/23	5/17/23 12:57	JR2
Perfluorononanoic acid (PFNA)	ND	1.8	0.85	ng/L	1		EPA 537.1	5/16/23	5/17/23 12:57	JR2
Perfluorodecanoic acid (PFDA)	ND	1.8	0.89	ng/L	1		EPA 537.1	5/16/23	5/17/23 12:57	JR2
N-EtFOSAA (NEtFOSAA)	ND	1.8	0.61	ng/L	1		EPA 537.1	5/16/23	5/17/23 12:57	JR2
Perfluoroundecanoic acid (PFUnA)	ND	1.8	0.70	ng/L	1		EPA 537.1	5/16/23	5/17/23 12:57	JR2
N-MeFOSAA (NMeFOSAA)	ND	1.8	0.69	ng/L	1		EPA 537.1	5/16/23	5/17/23 12:57	JR2
Perfluorododecanoic acid (PFDoA)	ND	1.8	0.66	ng/L	1		EPA 537.1	5/16/23	5/17/23 12:57	JR2
Perfluorotridecanoic acid (PFTriDA)	ND	1.8	0.67	ng/L	1		EPA 537.1	5/16/23	5/17/23 12:57	JR2
Perfluorotetradecanoic acid (PFTA)	ND	1.8	0.77	ng/L	1		EPA 537.1	5/16/23	5/17/23 12:57	JR2
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.8	1.1	ng/L	1		EPA 537.1	5/16/23	5/17/23 12:57	JR2
11Cl-PF3OUdS (F53B Major)	ND	1.8	0.61	ng/L	1		EPA 537.1	5/16/23	5/17/23 12:57	JR2
9Cl-PF3ONS (F53B Minor)	ND	1.8	0.75	ng/L	1		EPA 537.1	5/16/23	5/17/23 12:57	JR2
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.8	0.81	ng/L	1		EPA 537.1	5/16/23	5/17/23 12:57	JR2
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
13C-PFHxA		70.0	70-130						5/17/23 12:57	
M3HFPO-DA		90.1	70-130						5/17/23 12:57	
13C-PFDA		110	70-130						5/17/23 12:57	
D5-NEtFOSAA		86.0	70-130						5/17/23 12:57	

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Project Location: Raymond, NH

Sample Description:

Work Order: 23E1290

Date Received: 5/9/2023

Field Sample #: MW-4

Sampled: 5/9/2023 10:30

Sample ID: 23E1290-04

Sample Matrix: Ground Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanesulfonic acid (PFBS)	3.4	1.8	0.73	ng/L	1		EPA 537.1	5/11/23	5/16/23 15:02	DRL
Perfluorobutanesulfonic acid (PFBS)	2.9	1.9	0.75	ng/L	1		EPA 537.1	5/16/23	5/17/23 12:19	JR2
Perfluorohexanoic acid (PFHxA)	4.5	1.8	0.86	ng/L	1		EPA 537.1	5/11/23	5/16/23 15:02	DRL
Perfluorohexanoic acid (PFHxA)	2.7	1.9	0.89	ng/L	1		EPA 537.1	5/16/23	5/17/23 12:19	JR2
Perfluorohexanesulfonic acid (PFHxS)	0.87	1.8	0.83	ng/L	1	J	EPA 537.1	5/11/23	5/16/23 15:02	DRL
Perfluorohexanesulfonic acid (PFHxS)	ND	1.9	0.85	ng/L	1		EPA 537.1	5/16/23	5/17/23 12:19	JR2
Perfluoroheptanoic acid (PFHpA)	4.2	1.8	0.92	ng/L	1		EPA 537.1	5/11/23	5/16/23 15:02	DRL
Perfluoroheptanoic acid (PFHpA)	3.3	1.9	0.95	ng/L	1		EPA 537.1	5/16/23	5/17/23 12:19	JR2
Perfluorooctanoic acid (PFOA)	6.7	1.8	0.95	ng/L	1		EPA 537.1	5/11/23	5/16/23 15:02	DRL
Perfluorooctanoic acid (PFOA)	5.2	1.9	0.99	ng/L	1		EPA 537.1	5/16/23	5/17/23 12:19	JR2
Perfluorooctanesulfonic acid (PFOS)	ND	1.8	0.70	ng/L	1		EPA 537.1	5/11/23	5/16/23 15:02	DRL
Perfluorooctanesulfonic acid (PFOS)	0.72	1.9	0.72	ng/L	1	J	EPA 537.1	5/16/23	5/17/23 12:19	JR2
Perfluorononanoic acid (PFNA)	ND	1.8	0.85	ng/L	1		EPA 537.1	5/11/23	5/16/23 15:02	DRL
Perfluorononanoic acid (PFNA)	ND	1.9	0.88	ng/L	1		EPA 537.1	5/16/23	5/17/23 12:19	JR2
Perfluorodecanoic acid (PFDA)	ND	1.8	0.88	ng/L	1		EPA 537.1	5/11/23	5/16/23 15:02	DRL
Perfluorodecanoic acid (PFDA)	ND	1.9	0.91	ng/L	1		EPA 537.1	5/16/23	5/17/23 12:19	JR2
N-EtFOSAA (NEtFOSAA)	ND	1.8	0.61	ng/L	1		EPA 537.1	5/11/23	5/16/23 15:02	DRL
N-EtFOSAA (NEtFOSAA)	ND	1.9	0.63	ng/L	1		EPA 537.1	5/16/23	5/17/23 12:19	JR2
Perfluoroundecanoic acid (PFUnA)	ND	1.8	0.70	ng/L	1		EPA 537.1	5/11/23	5/16/23 15:02	DRL
Perfluoroundecanoic acid (PFUnA)	ND	1.9	0.72	ng/L	1		EPA 537.1	5/16/23	5/17/23 12:19	JR2
N-MeFOSAA (NMeFOSAA)	ND	1.8	0.69	ng/L	1		EPA 537.1	5/11/23	5/16/23 15:02	DRL
N-MeFOSAA (NMeFOSAA)	ND	1.9	0.71	ng/L	1		EPA 537.1	5/16/23	5/17/23 12:19	JR2
Perfluorododecanoic acid (PFDoA)	ND	1.8	0.66	ng/L	1	L-04	EPA 537.1	5/11/23	5/16/23 15:02	DRL
Perfluorododecanoic acid (PFDoA)	ND	1.9	0.68	ng/L	1		EPA 537.1	5/16/23	5/17/23 12:19	JR2
Perfluorotridecanoic acid (PFTTrDA)	ND	1.8	0.67	ng/L	1	L-04	EPA 537.1	5/11/23	5/16/23 15:02	DRL
Perfluorotridecanoic acid (PFTTrDA)	ND	1.9	0.70	ng/L	1		EPA 537.1	5/16/23	5/17/23 12:19	JR2
Perfluorotetradecanoic acid (PFTA)	ND	1.8	0.77	ng/L	1	L-04	EPA 537.1	5/11/23	5/16/23 15:02	DRL
Perfluorotetradecanoic acid (PFTA)	ND	1.9	0.80	ng/L	1		EPA 537.1	5/16/23	5/17/23 12:19	JR2
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.8	1.1	ng/L	1		EPA 537.1	5/11/23	5/16/23 15:02	DRL
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.9	1.2	ng/L	1		EPA 537.1	5/16/23	5/17/23 12:19	JR2
11Cl-PF3OUdS (F53B Major)	ND	1.9	0.63	ng/L	1		EPA 537.1	5/16/23	5/17/23 12:19	JR2
11Cl-PF3OUdS (F53B Major)	ND	1.8	0.61	ng/L	1	L-07	EPA 537.1	5/11/23	5/16/23 15:02	DRL
9Cl-PF3ONS (F53B Minor)	ND	1.8	0.75	ng/L	1		EPA 537.1	5/11/23	5/16/23 15:02	DRL
9Cl-PF3ONS (F53B Minor)	ND	1.9	0.78	ng/L	1		EPA 537.1	5/16/23	5/17/23 12:19	JR2
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.8	0.81	ng/L	1		EPA 537.1	5/11/23	5/16/23 15:02	DRL
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.9	0.84	ng/L	1		EPA 537.1	5/16/23	5/17/23 12:19	JR2

Surrogates	% Recovery	Recovery Limits	Flag/Qual	Date/Time Analyzed
13C-PFHxA	78.2	70-130		5/16/23 15:02
13C-PFHxA	48.5 *	70-130	PF-02B	5/17/23 12:19
M3HFPO-DA	88.6	70-130		5/16/23 15:02
M3HFPO-DA	64.2 *	70-130	PF-02B	5/17/23 12:19
13C-PFDA	138 *	70-130	PF-02B	5/16/23 15:02
13C-PFDA	116	70-130		5/17/23 12:19

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Raymond, NH

Sample Description:

Work Order: 23E1290

Date Received: 5/9/2023

Field Sample #: MW-4

Sampled: 5/9/2023 10:30

Sample ID: 23E1290-04

Sample Matrix: Ground Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Surrogates		% Recovery		Recovery Limits		Flag/Qual				
D5-NEtFOSAA		83.5		70-130					5/16/23 15:02	
D5-NEtFOSAA		107		70-130					5/17/23 12:19	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Sample Extraction Data

Prep Method:EPA 537.1 Analytical Method:EPA 537.1

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
23E1290-04 [MW-4]	B339913	271	1.00	05/11/23

Prep Method:EPA 537.1 Analytical Method:EPA 537.1

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
23E1290-01RE1 [MW-1]	B340328	287	1.00	05/16/23
23E1290-02RE1 [MW-2]	B340328	272	1.00	05/16/23
23E1290-03RE1 [MW-3]	B340328	271	1.00	05/16/23
23E1290-04RE1 [MW-4]	B340328	262	1.00	05/16/23

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QUALITY CONTROL
Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B339913 - EPA 537.1										
Blank (B339913-BLK1)										
Prepared: 05/11/23 Analyzed: 05/16/23										
Perfluorobutanesulfonic acid (PFBS)	ND	1.8	ng/L							
Perfluorohexanoic acid (PFHxA)	ND	1.8	ng/L							
Perfluorohexanesulfonic acid (PFHxS)	ND	1.8	ng/L							
Perfluoroheptanoic acid (PFHpA)	ND	1.8	ng/L							
Perfluorooctanoic acid (PFOA)	ND	1.8	ng/L							
Perfluorooctanesulfonic acid (PFOS)	ND	1.8	ng/L							
Perfluorononanoic acid (PFNA)	ND	1.8	ng/L							
Perfluorodecanoic acid (PFDA)	ND	1.8	ng/L							
N-EtFOSAA (NEtFOSAA)	ND	1.8	ng/L							
Perfluoroundecanoic acid (PFUnA)	ND	1.8	ng/L							
N-MeFOSAA (NMeFOSAA)	ND	1.8	ng/L							
Perfluorododecanoic acid (PFDoA)	ND	1.8	ng/L							
Perfluorotridecanoic acid (PFTrDA)	ND	1.8	ng/L							
Perfluorotetradecanoic acid (PFTA)	ND	1.8	ng/L							
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.8	ng/L							
11Cl-PF3OUdS (F53B Major)	ND	1.8	ng/L							
9Cl-PF3ONS (F53B Minor)	ND	1.8	ng/L							
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.8	ng/L							
Surrogate: 13C-PFHxA	41.9		ng/L	36.0		116	70-130			
Surrogate: M3HFPO-DA	37.0		ng/L	36.0		103	70-130			
Surrogate: 13C-PFDA	35.7		ng/L	36.0		99.1	70-130			
Surrogate: D5-NEtFOSAA	123		ng/L	144		85.2	70-130			
LCS (B339913-BS1)										
Prepared: 05/11/23 Analyzed: 05/16/23										
Perfluorobutanesulfonic acid (PFBS)	1.47	1.8	ng/L	1.60		92.0	50-150			J
Perfluorohexanoic acid (PFHxA)	1.53	1.8	ng/L	1.80		84.5	50-150			J
Perfluorohexanesulfonic acid (PFHxS)	1.48	1.8	ng/L	1.65		90.0	50-150			J
Perfluoroheptanoic acid (PFHpA)	1.41	1.8	ng/L	1.80		77.9	50-150			J
Perfluorooctanoic acid (PFOA)	1.36	1.8	ng/L	1.80		75.4	50-150			J
Perfluorooctanesulfonic acid (PFOS)	1.52	1.8	ng/L	1.67		91.0	50-150			J
Perfluorononanoic acid (PFNA)	1.46	1.8	ng/L	1.80		80.8	50-150			J
Perfluorodecanoic acid (PFDA)	1.51	1.8	ng/L	1.80		83.7	50-150			J
N-EtFOSAA (NEtFOSAA)	1.20	1.8	ng/L	1.80		66.3	50-150			J
Perfluoroundecanoic acid (PFUnA)	1.13	1.8	ng/L	1.80		62.7	50-150			J
N-MeFOSAA (NMeFOSAA)	1.26	1.8	ng/L	1.80		69.9	50-150			J
Perfluorododecanoic acid (PFDoA)	0.849	1.8	ng/L	1.80		47.1	* 50-150			L-04, J
Perfluorotridecanoic acid (PFTrDA)	0.676	1.8	ng/L	1.80		37.5	* 50-150			L-04, J
Perfluorotetradecanoic acid (PFTA)	0.712	1.8	ng/L	1.80		39.5	* 50-150			L-04, J
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.46	1.8	ng/L	1.80		81.1	50-150			J
11Cl-PF3OUdS (F53B Major)	0.855	1.8	ng/L	1.70		50.3	50-150			J
9Cl-PF3ONS (F53B Minor)	1.34	1.8	ng/L	1.68		79.8	50-150			J
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	1.48	1.8	ng/L	1.70		86.6	50-150			J
Surrogate: 13C-PFHxA	40.6		ng/L	36.1		112	50-150			
Surrogate: M3HFPO-DA	37.5		ng/L	36.1		104	50-150			
Surrogate: 13C-PFDA	37.3		ng/L	36.1		103	50-150			
Surrogate: D5-NEtFOSAA	138		ng/L	144		95.8	50-150			

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL
Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Notes
Batch B339913 - EPA 537.1										
LCS Dup (B339913-BSD1)										
						Prepared: 05/11/23 Analyzed: 05/16/23				
Perfluorobutanesulfonic acid (PFBS)	1.29	1.8	ng/L	1.59		81.2	50-150	12.9	50	J
Perfluorohexanoic acid (PFHxA)	1.51	1.8	ng/L	1.80		84.0	50-150	1.17	50	J
Perfluorohexanesulfonic acid (PFHxS)	1.47	1.8	ng/L	1.64		89.3	50-150	1.25	50	J
Perfluoroheptanoic acid (PFHpA)	1.53	1.8	ng/L	1.80		85.4	50-150	8.69	50	J
Perfluorooctanoic acid (PFOA)	1.49	1.8	ng/L	1.80		82.8	50-150	8.93	50	J
Perfluorooctanesulfonic acid (PFOS)	1.45	1.8	ng/L	1.67		86.9	50-150	5.10	50	J
Perfluorononanoic acid (PFNA)	1.53	1.8	ng/L	1.80		85.2	50-150	4.89	50	J
Perfluorodecanoic acid (PFDA)	1.44	1.8	ng/L	1.80		80.3	50-150	4.52	50	J
N-EtFOSAA (NEtFOSAA)	1.11	1.8	ng/L	1.80		61.8	50-150	7.56	50	J
Perfluoroundecanoic acid (PFUnA)	1.21	1.8	ng/L	1.80		67.2	50-150	6.46	50	J
N-MeFOSAA (NMeFOSAA)	1.21	1.8	ng/L	1.80		67.4	50-150	4.03	50	J
Perfluorododecanoic acid (PFDoA)	0.849	1.8	ng/L	1.80		47.3	* 50-150	0.0107	50	L-04, J
Perfluorotridecanoic acid (PFTrDA)	0.639	1.8	ng/L	1.80		35.6	* 50-150	5.49	50	L-04, J
Perfluorotetradecanoic acid (PFTA)	0.643	1.8	ng/L	1.80		35.8	* 50-150	10.1	50	L-04, J
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.49	1.8	ng/L	1.80		83.0	50-150	1.80	50	J
11Cl-PF3OUdS (F53B Major)	0.664	1.8	ng/L	1.69		39.2	* 50-150	25.2	50	L-07, J
9Cl-PF3ONS (F53B Minor)	1.32	1.8	ng/L	1.68		78.7	50-150	1.86	50	J
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	1.43	1.8	ng/L	1.70		84.3	50-150	3.24	50	J
Surrogate: 13C-PFHxA	39.4		ng/L	35.9		110	50-150			
Surrogate: M3HFPO-DA	36.1		ng/L	35.9		101	50-150			
Surrogate: 13C-PFDA	37.3		ng/L	35.9		104	50-150			
Surrogate: D5-NEtFOSAA	132		ng/L	144		91.9	50-150			
Batch B340328 - EPA 537.1										
Blank (B340328-BLK1)										
						Prepared: 05/16/23 Analyzed: 05/17/23				
Perfluorobutanesulfonic acid (PFBS)	ND	2.0	ng/L							
Perfluorohexanoic acid (PFHxA)	ND	2.0	ng/L							
Perfluorohexanesulfonic acid (PFHxS)	ND	2.0	ng/L							
Perfluoroheptanoic acid (PFHpA)	ND	2.0	ng/L							
Perfluorooctanoic acid (PFOA)	ND	2.0	ng/L							
Perfluorooctanesulfonic acid (PFOS)	ND	2.0	ng/L							
Perfluorononanoic acid (PFNA)	ND	2.0	ng/L							
Perfluorodecanoic acid (PFDA)	ND	2.0	ng/L							
N-EtFOSAA (NEtFOSAA)	ND	2.0	ng/L							
Perfluoroundecanoic acid (PFUnA)	ND	2.0	ng/L							
N-MeFOSAA (NMeFOSAA)	ND	2.0	ng/L							
Perfluorododecanoic acid (PFDoA)	ND	2.0	ng/L							
Perfluorotridecanoic acid (PFTrDA)	ND	2.0	ng/L							
Perfluorotetradecanoic acid (PFTA)	ND	2.0	ng/L							
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	2.0	ng/L							
11Cl-PF3OUdS (F53B Major)	ND	2.0	ng/L							
9Cl-PF3ONS (F53B Minor)	ND	2.0	ng/L							
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	2.0	ng/L							
Surrogate: 13C-PFHxA	41.1		ng/L	40.3		102	70-130			
Surrogate: M3HFPO-DA	39.4		ng/L	40.3		97.8	70-130			
Surrogate: 13C-PFDA	36.4		ng/L	40.3		90.4	70-130			
Surrogate: D5-NEtFOSAA	172		ng/L	161		107	70-130			

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QUALITY CONTROL
Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Batch B340328 - EPA 537.1									
LCS (B340328-BS1)									
					Prepared: 05/16/23 Analyzed: 05/17/23				
Perfluorobutanesulfonic acid (PFBS)	1.51	2.0	ng/L	1.78		84.6 50-150			J
Perfluorohexanoic acid (PFHxA)	1.46	2.0	ng/L	2.01		72.7 50-150			J
Perfluorohexanesulfonic acid (PFHxS)	1.60	2.0	ng/L	1.83		87.5 50-150			J
Perfluoroheptanoic acid (PFHpA)	1.48	2.0	ng/L	2.01		73.7 50-150			J
Perfluorooctanoic acid (PFOA)	1.72	2.0	ng/L	2.01		85.7 50-150			J
Perfluorooctanesulfonic acid (PFOS)	1.53	2.0	ng/L	1.86		82.4 50-150			J
Perfluorononanoic acid (PFNA)	2.70	2.0	ng/L	2.01		135 50-150			J
Perfluorodecanoic acid (PFDA)	1.60	2.0	ng/L	2.01		79.9 50-150			J
N-EtFOSAA (NEtFOSAA)	1.45	2.0	ng/L	2.01		72.4 50-150			J
Perfluoroundecanoic acid (PFUnA)	1.63	2.0	ng/L	2.01		81.3 50-150			J
N-MeFOSAA (NMeFOSAA)	1.17	2.0	ng/L	2.01		58.3 50-150			J
Perfluorododecanoic acid (PFDoA)	1.36	2.0	ng/L	2.01		67.7 50-150			J
Perfluorotridecanoic acid (PFTriDA)	1.43	2.0	ng/L	2.01		71.4 50-150			J
Perfluorotetradecanoic acid (PFTA)	1.42	2.0	ng/L	2.01		70.8 50-150			J
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.14	2.0	ng/L	2.01		57.0 50-150			J
11Cl-PF3OUdS (F53B Major)	1.38	2.0	ng/L	1.89		73.1 50-150			J
9Cl-PF3ONS (F53B Minor)	1.48	2.0	ng/L	1.87		79.1 50-150			J
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	1.35	2.0	ng/L	1.90		71.4 50-150			J
Surrogate: 13C-PFHxA	36.8		ng/L	40.1		91.6 70-130			
Surrogate: M3HFPO-DA	32.7		ng/L	40.1		81.5 70-130			
Surrogate: 13C-PFDA	35.1		ng/L	40.1		87.4 70-130			
Surrogate: D5-NEtFOSAA	162		ng/L	160		101 70-130			
LCS Dup (B340328-BS1)									
					Prepared: 05/16/23 Analyzed: 05/17/23				
Perfluorobutanesulfonic acid (PFBS)	1.71	2.1	ng/L	1.86		91.9 50-150	12.7	50	J
Perfluorohexanoic acid (PFHxA)	1.69	2.1	ng/L	2.10		80.7 50-150	14.8	50	J
Perfluorohexanesulfonic acid (PFHxS)	1.67	2.1	ng/L	1.92		87.1 50-150	3.89	50	J
Perfluoroheptanoic acid (PFHpA)	1.70	2.1	ng/L	2.10		80.9 50-150	13.7	50	J
Perfluorooctanoic acid (PFOA)	2.43	2.1	ng/L	2.10		116 50-150	34.4	50	J
Perfluorooctanesulfonic acid (PFOS)	1.60	2.1	ng/L	1.94		82.2 50-150	4.07	50	J
Perfluorononanoic acid (PFNA)	1.88	2.1	ng/L	2.10		89.6 50-150	35.9	50	J
Perfluorodecanoic acid (PFDA)	1.26	2.1	ng/L	2.10		60.2 50-150	23.9	50	J
N-EtFOSAA (NEtFOSAA)	1.66	2.1	ng/L	2.10		79.3 50-150	13.4	50	J
Perfluoroundecanoic acid (PFUnA)	1.90	2.1	ng/L	2.10		90.6 50-150	15.1	50	J
N-MeFOSAA (NMeFOSAA)	1.45	2.1	ng/L	2.10		69.1 50-150	21.2	50	J
Perfluorododecanoic acid (PFDoA)	1.63	2.1	ng/L	2.10		77.8 50-150	18.2	50	J
Perfluorotridecanoic acid (PFTriDA)	1.69	2.1	ng/L	2.10		80.5 50-150	16.4	50	J
Perfluorotetradecanoic acid (PFTA)	1.54	2.1	ng/L	2.10		73.5 50-150	8.14	50	J
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.42	2.1	ng/L	2.10		67.8 50-150	21.6	50	J
11Cl-PF3OUdS (F53B Major)	1.49	2.1	ng/L	1.98		75.3 50-150	7.37	50	J
9Cl-PF3ONS (F53B Minor)	1.77	2.1	ng/L	1.96		90.3 50-150	17.6	50	J
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	1.66	2.1	ng/L	1.98		83.8 50-150	20.2	50	J
Surrogate: 13C-PFHxA	38.8		ng/L	41.9		92.5 70-130			
Surrogate: M3HFPO-DA	35.9		ng/L	41.9		85.5 70-130			
Surrogate: 13C-PFDA	34.3		ng/L	41.9		81.7 70-130			
Surrogate: D5-NEtFOSAA	172		ng/L	168		103 70-130			

FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
J	Detected but below the Reporting Limit (lowest calibration standard); therefore, result is an estimated concentration (CLP J-Flag).
L-04	Laboratory fortified blank/laboratory control sample recovery and duplicate recovery are outside of control limits. Reported value for this compound is likely to be biased on the low side.
L-07	Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD between the two LFB/LCS results is within method specified criteria.
PF-02B	Surrogate recovery is outside of control limits. Re-extraction yielded different surrogate non-conformance. Both results reported.

CERTIFICATIONS
Certified Analyses included in this Report

Analyte	Certifications
<i>EPA 537.1 in Drinking Water</i>	
Perfluorobutanesulfonic acid (PFBS)	VT-DW,NJ,CT,ME,PA,MI,MA,NY,NH,OH
Perfluorohexanoic acid (PFHxA)	VT-DW,NJ,CT,ME,PA,MI,MA,NY,NH,OH
Perfluorohexanesulfonic acid (PFHxS)	VT-DW,NJ,CT,ME,PA,MI,MA,NY,NH,OH
Perfluoroheptanoic acid (PFHpA)	VT-DW,NJ,CT,ME,PA,MI,MA,NY,NH,OH
Perfluorooctanoic acid (PFOA)	VT-DW,NJ,CT,ME,PA,MI,MA,NY,NH,OH
Perfluorooctanesulfonic acid (PFOS)	VT-DW,NJ,CT,ME,PA,MI,MA,NY,NH,OH
Perfluorononanoic acid (PFNA)	VT-DW,NJ,CT,ME,PA,MI,MA,NY,NH,OH
Perfluorodecanoic acid (PFDA)	VT-DW,NJ,CT,ME,PA,MI,MA,NY,NH,OH
N-EtFOSAA (NEtFOSAA)	VT-DW,NJ,CT,ME,PA,MI,MA,NY,NH,OH
Perfluoroundecanoic acid (PFUnA)	VT-DW,NJ,CT,ME,PA,MI,MA,NY,NH,OH
N-MeFOSAA (NMeFOSAA)	VT-DW,NJ,CT,ME,PA,MI,MA,NY,NH,OH
Perfluorododecanoic acid (PFDoA)	VT-DW,NJ,CT,ME,PA,MI,MA,NY,NH,OH
Perfluorotridecanoic acid (PFTrDA)	VT-DW,NJ,CT,ME,PA,MI,MA,NY,NH,OH
Perfluorotetradecanoic acid (PFTA)	VT-DW,NJ,CT,ME,PA,MI,MA,NY,NH,OH
Hexafluoropropylene oxide dimer acid (HFPO-DA)	VT-DW,NJ,CT,ME,PA,MI,MA,NY,NH,OH
11Cl-PF3OUdS (F53B Major)	VT-DW,NJ,CT,ME,PA,MI,MA,NY,NH,OH
9Cl-PF3ONS (F53B Minor)	VT-DW,NJ,CT,ME,PA,MI,MA,NY,NH,OH
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	VT-DW,NJ,CT,ME,PA,MI,MA,NY,NH,OH

Con-Test, a Pace Environmental Laboratory, operates under the following certifications and accreditations:

Code	Description	Number	Expires
MA	Massachusetts DEP	M-MA100	06/30/2024
CT	Connecticut Department of Public Health	PH-0821	12/31/2024
NY	New York State Department of Health	10899 NELAP	04/1/2024
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2024
NJ	New Jersey DEP	MA007 NELAP	06/30/2023
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2023
ME	State of Maine	MA00100	06/9/2023
PA	Commonwealth of Pennsylvania DEP	68-05812	06/30/2023
MI	Dept. of Env, Great Lakes, and Energy	9100	06/30/2023
OH	Ohio Environmental Protection Agency	87781	04/1/2024

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http://www.pacelabs.com

39 Spruce Street
East Longmeadow, MA 01028

Doc # 301 Rev 5_07/13/2021

Phone: 413-525-2332
Fax: 413-525-6405

Access, COC's, and Support Requests

ENAC

Address: 291 MAIN ST., P.O. BOX 105, ALTON, NH

Phone: 603-875-8100

Project Location: SEVERINO PIT, RIMMOND, NH

Project Number:

Project Manager: TADD GREENWOOD

Face Quote Name/Number:

Invoice Recipient: DTW

Sampled By: DTW

Price Work Order:

Beginning Date/Time: 5/9/23 10:40

Client Sample ID / Description: MW-1

Ending Date/Time: 5/9/23 10:50

Client Sample ID / Description: MW-2

Ending Date/Time: 5/9/23 11:05

Client Sample ID / Description: MW-3

Ending Date/Time: 5/9/23 10:30

Client Sample ID / Description: MW-4

Beginning Date/Time:

Client Sample ID / Description:

Beginning Date/Time:

Client Sample ID / Description:

Beginning Date/Time:

Client Sample ID / Description:

Beginning Date/Time:

Client Sample ID / Description:

Beginning Date/Time:

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Beginning Date/Time:

Client Sample ID / Description:

Beginning Date/Time:

Client Sample ID / Description:

Beginning Date/Time:

Client Sample ID / Description:

Beginning Date/Time:

Relinquished by: (signature)

Date/Time: 5/9/23 13:45

Received by: (signature)

Date/Time: 5-7-23

Relinquished by: (signature)

Date/Time: 5-7-23

Received by: (signature)

Date/Time: 5/9/23 1705

Relinquished by: (signature)

Date/Time:

Received by: (signature)

Date/Time:

Relinquished by: (signature)

Date/Time:

Received by: (signature)

Date/Time:

Relinquished by: (signature)

Date/Time:

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Received by: (signature)

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Relinquished by: (signature)

Date/Time:

Received by: (signature)

Date/Time:

Relinquished by: (signature)

Date/Time:

Received by: (signature)

Date/Time:

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 East Longmeadow, MA. 01028
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Log In Back-Sheet

Login Sample Receipt Checklist - (Rejection Criteria Listing
 - Using Acceptance Policy) Any False statement will be
 brought to the attention of the Client - True or False



Client ENAC
 Project Severino Pt
 MCP/RCP Required NO
 Deliverable Package Req. none
 Location Raymond, NH
 PWSID# (When Applicable) N/A
 Arrival Method:
 Courier Fed Ex Walk In Other
 Received By / Date / Time ER 5/9/23 1205
 Back-Sheet By / Date / Time MCM 5/9/23 1749
 Temperature Method GUD # 5
 Temp < 6° C Actual Temperature 30
 Rush Samples: Yes / No Notify No
 Short Hold: Yes / No Notify No

	True	False
Received on Ice	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Received in Cooler	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Custody Seal: DATE TIME	<input type="checkbox"/>	<input checked="" type="checkbox"/>
COC Relinquished	<input checked="" type="checkbox"/>	<input type="checkbox"/>
COC/Samples Labels Agree	<input checked="" type="checkbox"/>	<input type="checkbox"/>
All Samples in Good Condition	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Samples Received within Holding Time	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Is there enough Volume	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Proper Media/Container Used	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Splitting Samples Required	<input type="checkbox"/>	<input checked="" type="checkbox"/>
MS/MSD	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Trip Blanks	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Lab to Filters	<input type="checkbox"/>	<input checked="" type="checkbox"/>
COC Legible	<input checked="" type="checkbox"/>	<input type="checkbox"/>
COC Included: (Check all included)		
Client <input checked="" type="checkbox"/>	Analysis <input checked="" type="checkbox"/>	Sampler Name <input checked="" type="checkbox"/>
Project <input checked="" type="checkbox"/>	IDs <input checked="" type="checkbox"/>	Collection Date/Time <input checked="" type="checkbox"/>
All Samples Proper pH:	<input checked="" type="checkbox"/> <u>N/A</u>	<input type="checkbox"/>

Notes regarding Samples/COC outside of SOP:

Container (Circle when applicable)	UnP	HCl	HNO3	H2SO4	NaOH	Trizma	Na2S2O3	Other Preservative	
1L Amber Plastic									
500 mL Amber Plastic									
250 mL Amber <u>Plastic</u>						12			
Other Amber Clear Plastic									
16oz Amber Clear									
8oz Amber Clear									
4oz Amber Clear									
2oz Amber Clear									
Col/Bacteria									
Flashpoint									
Plastic Bag									
SOC Kit									
Perchlorate									
Encore									
Frozen									
	Proper Headspace	UnP	HCl	MeOH	Bisulfate	DI	Thiosulfate	Sulfuric	Other
Vials									

Todd Greenwood
Enviro North American Consulting
PO Box 1075
Alton, NH 03809



Laboratory Report for:

Eastern Analytical, Inc. ID: 260617
Client Identification: SEVERINO PIT
Date Received: 5/22/2023

Enclosed are the analytical results per the Chain of Custody for sample(s) in the referenced project. All analyses were performed in accordance with our QA/QC Program, NELAP and other applicable state requirements. All quality control criteria was within acceptance criteria unless noted on the report pages. Results are for the exclusive use of the client named on this report and will not be released to a third party without consent.

The following information is contained within this report: Sample Conditions summary, Analytical Results/Data, Quality Control data (if requested) and copies of the Chain of Custody. This report may not be reproduced except in full, without the written approval of the laboratory.

The following standard abbreviations and conventions apply to all EAI reports:

- < : "less than" followed by the reporting limit
- > : "greater than" followed by the reporting limit
- %R : % Recovery

Certifications:

Eastern Analytical, Inc. maintains certification in the following states: Connecticut (PH-0492), Maine (NH005), Massachusetts (M-NH005), New Hampshire/NELAP (1012), Rhode Island (269), Vermont (VT1012), New York (12072) and West Virginia (9910C). Please refer to our website at www.easternanalytical.com for a copy of our certificates and accredited parameters.


References:

- EPA 600/4-79-020, 1983
- Standard Methods for Examination of Water and Wastewater, 20th, 21st, 22nd & 23rd edition or noted revision year.
- Test Methods for Evaluating Solid Waste SW 846 3rd Edition including updates IVA and IVB
- Hach Water Analysis Handbook, 4th edition, 1992
- ASTM International

If you have any questions regarding the results contained within, please feel free to contact customer service. Unless otherwise requested, we will dispose of the sample(s) 6 weeks from the sample receipt date.

We appreciate this opportunity to be of service and look forward to your continued patronage.

Sincerely,


Lorraine Olashaw, Lab Director

5.25.23
Date



SAMPLE CONDITIONS PAGE

EAI ID#: 260617

Client: **Enviro North American Consulting**

Client Designation: **SEVERINO PIT**

Temperature upon receipt (°C): 3.0

Received on ice or cold packs (Yes/No): Y

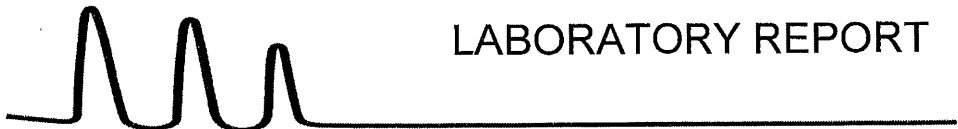
Acceptable temperature range (°C): 0-6

Lab ID	Sample ID	Date Received	Date/Time Sampled	Sample Matrix	% Dry Weight	Exceptions/Comments (other than thermal preservation)
260617.01	BKG-1	5/22/23	5/22/23 09:45	solid	97.1	Adheres to Sample Acceptance Policy
260617.02	BKG-2	5/22/23	5/22/23 10:00	solid	87.7	Adheres to Sample Acceptance Policy
260617.03	BKG-3	5/22/23	5/22/23 10:15	solid	94.7	Adheres to Sample Acceptance Policy
260617.04	BKG-4	5/22/23	5/22/23 10:45	solid	89.3	Adheres to Sample Acceptance Policy
260617.05	BKG-5	5/22/23	5/22/23 11:00	solid	95.0	Adheres to Sample Acceptance Policy
260617.06	BKG-6	5/22/23	5/22/23 11:10	solid	81.7	Adheres to Sample Acceptance Policy
260617.07	BKG-7	5/22/23	5/22/23 11:20	solid	94.1	Adheres to Sample Acceptance Policy
260617.08	BKG-8	5/22/23	5/22/23 11:30	solid	86.2	Adheres to Sample Acceptance Policy

All results contained in this report relate only to the above listed samples.

Unless otherwise noted:

- Hold times, preservation, container types, and sample conditions adhered to EPA Protocol.
- Solid samples are reported on a dry weight basis, unless otherwise noted. pH/Corrosivity, Flashpoint, Ignitability, Paint Filter, Conductivity and Specific Gravity are always reported on an "as received" basis.
- Analysis of pH, Total Residual Chlorine, Dissolved Oxygen and Sulfite were performed at the laboratory outside of the recommended 15 minute hold time.
- Samples collected by Eastern Analytical, Inc. (EAI) were collected in accordance with approved EPA procedures.



LABORATORY REPORT

EAI ID#: 260617

Client: **Enviro North American Consulting**

Client Designation: **SEVERINO PIT**

Sample ID:	BKG-1	BKG-2	BKG-3	BKG-4					
Lab Sample ID:	260617.01	260617.02	260617.03	260617.04					
Matrix:	solid	solid	solid	solid					
Date Sampled:	5/22/23	5/22/23	5/22/23	5/22/23	Analytical		Date of		
Date Received:	5/22/23	5/22/23	5/22/23	5/22/23	Matrix	Units	Analysis	Method	Analyst
Arsenic	15	8.9	13	22	SolTotDry	mg/kg	5/25/23	6020A	DS

Sample ID:	BKG-5	BKG-6	BKG-7	BKG-8					
Lab Sample ID:	260617.05	260617.06	260617.07	260617.08					
Matrix:	solid	solid	solid	solid					
Date Sampled:	5/22/23	5/22/23	5/22/23	5/22/23	Analytical		Date of		
Date Received:	5/22/23	5/22/23	5/22/23	5/22/23	Matrix	Units	Analysis	Method	Analyst
Arsenic	41	10	6.4	13	SolTotDry	mg/kg	5/25/23	6020A	DS

Dennehy Pit

DATE	SOURCE	MATERIAL	Yards	DATE	SOURCE	MATERIAL	Yards
6/1/22	Nashua Middle School	raw loam	125	7/8/22	Slate @ Merrimack	raw loam	18
6/2/22	"	"	75	7/11/22	Flat Rock Rd. Pit	raw stonebase	50
6/7/22	Flat Rock Rd. Pit	raw stonebase	75	"	Stevens Mill Redev.	concrete	18
6/8/22	"	"	100	"	Dennet Rd.	spoil	25
"	Dennet Rd.	raw loam	18	"	Plaistow Self Storage	old asphalt	110
6/10/22	Flat Rock Rd. Pit	raw stonebase	75	7/12/22	Flat Rock Rd. Pit	raw stonebase	25
"	Nashua Middle School	raw loam	25	"	Stevens Mill Redev.	concrete	18
6/13/22	Flat Rock Rd. Pit	raw stonebase	61	"	Slate @ Merrimack	raw loam	14
"	Slate @ Merrimack	rocks	14	"	Vitex	concrete	18
"	Dennet Rd.	raw loam	18	7/13/22	Flat Rock Rd. Pit	raw stonebase	25
6/14/22	Flat Rock Rd. Pit	raw stonebase	43	"	Stevens Mill Redev.	concrete	43
6/15/22	"	"	57	"	Contel	ledge	50
6/16/22	"	"	32	"	Vitex	concrete	18
"	Dennet Rd.	raw loam	25	"	Peter Chivers	stump grindings	154
6/17/22	Flat Rock Rd. Pit	raw stonebase	25	"	"	spoil	70
6/20/22	"	"	43	7/14/22	Flat Rock Rd. Pit	raw stonebase	43
"	Dennet Rd.	raw loam	50	"	Slate @ Merrimack	raw loam	14
"	Procon GTE	"	54	"	Sagamore Ave.	ledge	18
6/21/22	Stevens Mill Redev.	concrete	18	"	Parson Woods	raw loam	18
"	Dennet Rd.	raw loam	25	"	Vitex	ledge	18
6/22/22	Flat Rock Rd. Pit	raw stonebase	25	7/15/22	Flat Rock Rd. Pit	raw stonebase	25
"	Stevens Mill Redev.	ledge	18	"	Slate @ Merrimack	concrete	14
"	Copart	spoil	18	"	Vitex	fill	25
6/23/22	Flat Rock Rd. Pit	raw stonebase	25	7/18/22	Flat Rock Rd. Pit	raw stonebase	43
"	Lorden Common	raw loam	18	"	Slate @ Merrimack	loam	14
"	Stevens Mill Redev.	old asphalt	18	"	Vitex	old asphalt	18
6/24/22	Vitex	raw loam	18	7/19/22	Flat Rock Rd. Pit	raw stonebase	43
6/27/22	Flat Rock Rd. Pit	raw stonebase	50	7/20/22	"	"	43
"	Vitex	raw loam	18	"	Vitex	ledge	54
6/28/22	Pruven Pit	erosion stone	50	7/21/22	Flat Rock Rd. Pit	raw stonebase	50
"	Flat Rock Rd. Pit	raw stonebase	36	"	"	3/4" stone	25
"	Parson Woods	old asphalt	14	7/22/22	Flat Rock Rd. Pit	raw stonebase	175
"	Vitex	raw loam	18	"	Evroks (Allenstown)	rocks	14
"	Lorden Common	"	18	7/25/22	Flat Rock Rd. Pit	raw stonebase	50
6/29/22	Flat Rock Rd. Pit	raw stonebase	79	"	Auburn Cliffs	"	192
"	Stevens Mill Redev.	raw loam	18	"	Stevens Mill Dev.	old asphalt	18
6/30/22	Flat Rock Rd. Pit	raw stonebase	68	"	Evroks (Huse Rd.)	"	36
"	Contel	big rock	154	"	Contel	oversize rock	18
7/5/22	Flat Rock Rd. Pit	raw stonebase	50	7/26/22	Auburn Cliffs	raw stonebase	97
"	Aviation Drive	fill	18	"	"	1 1/2" stone	18
"	"	concrete	36	7/27/22	Flat Rock Rd. Pit	raw stonebase	25
"	"	old asphalt	18	"	Vitex	ledge	18
7/6/22	Flat Rock Rd. Pit	raw stonebase	25	7/28/22	Flat Rock Rd. Pit	raw stonebase	25
"	Stevens Mill Redev.	rubble	18	"	Vitex	ledge	18
"	Contel	big rock	14	8/1/22	"	concrete	18
7/7/22	Parson Woods	raw loam	36	8/2/22	"	"	18
7/8/22	Stevens Mill Redev.	concrete	36	8/3/22	"	"	18

Dennehy Pit

DATE	SOURCE	MATERIAL	Yards	DATE	SOURCE	MATERIAL	Yards
8/4/22	Stevens Mill Redev.	concrete	18	9/1/22	Vitex	concrete	18
"	"	old asphalt	18	9/2/22	"	"	18
8/5/22	Vitex	concrete	18	9/6/22	"	"	18
8/8/22	"	"	18	9/7/22	"	"	18
8/9/22	Slate @ Merrimack	old asphalt	14	9/8/22	Sunningdale	"	18
"	Vitex	concrete	18	9/13/22	Vitex	concrete	18
8/10/22	Flat Rock Rd. Pit	raw stonebase	18	"	Sunningdale	old asphalt	18
"	Rte. 33 stkyd.	ledge	18	9/14/22	"	"	18
8/11/22	Lady Isle	raw loam	18	9/16/22	Dennet Rd.	stonedust	25
"	Vitex	concrete	18	9/19/22	Rte. 33 stkyd.	old asphalt	18
8/12/22	Evroks (Huse Rd.)	"	18	"	Dennet Rd.	stonedust	25
"	Vitex	"	18	"	Sagamore	old asphalt	18
8/15/22	Stevens Mill Redev.	"	14	9/20/22	Dennet Rd.	stonedust	25
"	Evroks (Huse Rd.)	concrete slabs	1 ld.	"	Sagamore	old asphalt	18
8/15/22	Lady Isle	fill	14	"	Bluebird Storage	raw loam	18
8/16/22	Rte. 33 stkyd.	ledge	14	9/21/22	Sagamore	old asphalt	18
"	Vitex	concrete	18	"	Vitex	"	18
8/17/22	Stevens Mill Redev.	"	18	"	Landing Way	"	36
"	Tom Sev (Adams Rd.)	rock	14	9/22/22	Rte. 33 stkyd.	"	72
8/18/22	Stevens Mill Redev.	concrete	18	"	"	ledge	72
"	Slate @ Merrimack	"	14	"	Candia Irving	fill	28
8/19/22	Stevens Mill Redev.	"	18	9/23/22	Rte. 33 stkyd.	ledge	18
8/22/22	Flat Rock Rd. Pit	raw stonebase	18	"	Candia Irving	fill	28
"	Rte. 33 stkyd.	old asphalt	18	"	"	old asphalt	14
"	Vitex	concrete	18	9/24/22	140 Exeter Rd.	spoil	416
8/23/22	Flat Rock Rd. Pit	raw stonebase	18	"	"	fill	90
"	Stevens Mill Redev.	concrete	18	9/26/22	Vitex	ledge	18
"	Lady Isle	spoil	108	"	Aviation Drive	concrete	14
"	"	fill	36	"	"	fill	28
"	"	ledge	36	"	"	old asphalt	14
"	Vitex	concrete	18	9/27/22	Vitex	ledge	18
8/24/22	"	"	18	9/28/22	"	ledge/concrete	25
8/25/22	Flat Rock Rd. Pit	raw stonebase	18	9/29/22	Vitex	rock/concrete	25
"	Stevens Mill Redev.	concrete	18	"	"	ledge/fill	18
"	Dennet Rd.	stonedust	18	10/3/22	Slate @ Merrimack	old asphalt	14
"	Vitex	concrete	18	"	Landing Way Pond	raw loam	18
8/26/22	Dennet Rd.	stonedust	18	"	"	pond scum	18
"	Vitex	raw loam	18	10/6/22	Slate @ Merrimack	old asphalt	14
8/29/22	6 Industrial Way	"	25	10/7/22	Sagamore Ave.	"	18
8/30/22	Stevens Mill Redev.	concrete	14	10/10/22	Rte. 33 stkyd.	"	43
"	6 Industrial Way	raw loam	25	"	Contel	raw loam	144
"	Dennet Rd.	"	18	"	"	screened loam	18
"	Vitex	concrete	18	"	Vitex	concrete	18
8/31/22	Stevens Mill Redev.	"	18	10/11/22	Sagamore Ave.	old asphalt	18
"	Vitex	"	18	10/12/22	Stevens Mill Redev.	raw loam	18
9/1/22	Stevens Mill Redev.	"	18	"	Slate @ Merrimack	spoil	18
"	Rte. 33 stkyd.	old asphalt	18	"	Sagamore Ave.	old asphalt	25

Dennehy Pit

DATE	SOURCE	MATERIAL	Yards	DATE	SOURCE	MATERIAL	Yards
10/13/22	Stevens Mill Redev.	concrete	18	11/19/22	6 Industrial Way	raw loam	50
"	Slate @ Merrimack	spoil	18	11/21/22	"	"	36
"	Sagamore Ave.	old asphalt	18	11/23/22	"	"	36
10/17/22	Auburn Cliffs	stonedust	225	"	Constructors 31	ledge	18
"	Rte. 33 stkyd.	old asphalt	18	11/28/22	Stevens Mill Redev.	concrete	14
"	Slate @ Merrimack	concrete	14	"	6 Industrial Way	raw loam	18
"	Landing Way	raw loam	25	"	Evroks (Huse Rd.)	loam	18
10/18/22	Stevens Mill Redev.	"	18	"	"	old asphalt	18
"	Rte. 33 stkyd.	old asphalt	36	"	Auburn Cliffs	"	14
10/19/22	"	spoil	18	11/29/22	"	3/4" stone	14
10/21/22	Auburn Cliffs	stonedust	36	"	6 Industrial Way	raw loam	36
10/25/22	"	"	25	"	Auburn Self Storage	old asphalt	32
"	Sagamore Ave.	ledge	18	11/30/22	Milton Pit	screened sand	150
"	Auburn Self Storage	spoil	14	"	Constructors 31	ledge	18
"	"	concrete	18	"	Evroks (Huse Rd.)	old asphalt	14
10/26/22	Stevens Mill Redev.	ledge	18	"	Auburn Self Storage	"	36
"	Sagamore Ave.	"	18	12/1/22	Milton Pit	screened sand	75
"	Auburn Self Storage	spoil	28	"	Auburn Cliffs	raw stonebase	18
"	"	concrete	36	"	Constructors 31	ledge	18
10/27/22	Auburn Cliffs	stonedust	25	"	Evroks (Huse Rd.)	old asphalt	28
10/28/22	"	"	42	"	Auburn Cliffs	"	14
10/31/22	Evroks (Huse Rd.)	concrete	18	"	Auburn Self Storage	"	18
"	Northgate Apts.	"	18	12/2/22	Milton Pit	screened sand	100
11/1/22	Stevens Mill Redev.	"	18	"	"	raw stonebase	18
11/2/22	Evroks (Huse Rd.)	old asphalt	18	"	Stevens Mill Redev.	concrete	14
"	Auburn Self Storage	concrete	14	"	Evroks (Huse Rd.)	old asphalt	36
"	"	spoil	14	"	Auburn Self Storage	raw loam	18
11/4/22	Stevens Mill Redev.	concrete	14	12/5/22	Milton Pit	screened sand	100
11/7/22	Evroks (Huse Rd.)	spoil	18	"	Evroks (Huse Rd.)	concrete	14
11/8/22	Auburn Cliffs	raw stonebase	150	"	Vitex	frost/crush	14
11/9/22	Parson Woods	raw loam	18	12/6/22	Stevens Mill Redev.	concrete	14
11/10/22	Auburn Cliffs	raw stonebase	557	"	Evroks (Huse Rd.)	old asphalt	78
"	Parson Woods	raw loam	25	"	"	fill	18
11/11/22	Pruven Pit	screened sand	286	12/7/22	6 Industrial Way	old asphalt	18
"	Auburn Cliffs	raw stonebase	373	"	Evroks (Huse Rd.)	"	42
11/12/22	"	"	567	12/8/22	Milton Pit	screened sand	25
11/14/22	Evroks (Huse Rd.)	old asphalt	18	"	6 Industrial Way	old asphalt	18
"	Vitex	"	14	"	Evroks (Huse Rd.)	"	14
11/15/22	Milton Pit	sand	25	"	Slate @ Merrimack	"	14
"	Evroks (Huse Rd.)	old asphalt	14	"	Contel	fill	28
"	"	concrete	28	12/9/22	Milton Pit	screened sand	75
"	Vitex	"	14	"	New. Maint. Facility	raw loam	18
11/16/22	Evroks (Huse Rd.)	old asphalt	146	12/12/22	Milton Pit	screened sand	61
11/17/22	"	fill	36	"	Auburn Cliffs	3/4" stone	14
"	"	concrete	18	"	"	1 1/2" stone	25
"	Auburn Self Storage	old asphalt	36	"	Evroks (Huse Rd.)	old asphalt	14
11/18/22	"	"	36	12/13/22	Milton Pit	screened sand	50

Dennehy Pit

DATE	SOURCE	MATERIAL	Yards	DATE	SOURCE	MATERIAL	Yards
1/3/23	Milton Pit	screened sand	50	3/6/23	Milton Pit	pipe sand	18
"	Contel	spoil	98	"	Stevens Mill Redev.	"	18
1/4/23	Vitex	fill	18	3/7/23	Milton Pit	"	18
"	Contel	spoil	56	3/8/23	"	"	18
1/5/23	Milton Pit	screened sand	100	3/10/23	Vitex	concrete	18
"	Vitex	old asphalt	18	3/16/23	Milton Pit	sand	18
"	Queen City Bridge	concrete	256	3/17/23	"	"	18
1/9/23	Auburn Cliffs	3/4" stone	25	"	GMC Dealership	old asphalt	18
"	Evroks (Huse Rd.)	old asphalt	18	3/20/23	"	"	36
1/10/23	Milton Pit	screened sand	25	3/22/23	Stevens Mill Redev.	concrete	18
1/13/23	Stevens Mill Redev.	concrete	18	3/23/23	Milton Pit	sand	18
1/17/23	Vitex	old asphalt	18	3/27/23	"	pipe sand	43
1/18/23	Stevens Mill Redev.	concrete	18	"	Nashua Middle School	erosion stone	50
1/19/23	6 Industrial Way	stump grindings	270	3/28/23	Raymond Dist. Pit	1 1/2" stone	18
1/24/23	Milton Pit	screened sand	50	"	Stevens Mill Redev.	concrete	18
"	6 Industrial Way	stump grindings	216	3/29/23	Milton Pit	sand	25
"	McNabb Properties	spoil	18	"	Vitex	concrete	18
1/25/23	Milton Pit	screened sand	25	"	Turnpike Maint. Facility	spoil	25
"	6 Industrial Way	stump grindings	198	3/30/23	Evroks (Allentown)	concrete	126
"	Vitex	fill	18	3/31/23	"	"	90
1/26/23	Milton Pit	screened sand	25	4/1/23	Stevens Mill Redev.	"	36
"	Vitex	fill	18	4/3/23	Evroks (Allentown)	loam	18
1/27/23	"	"	18	4/4/23	Stratham Surgical	old asphalt	18
1/31/23	Milton Pit	screened sand	25	4/6/23	Vitex	concrete	18
2/1/23	"	"	25	4/7/23	Aggregate (Raymond)	3/8" stone	14
2/2/23	Flat Rock Rd. Pit	1 1/2" stone	25	"	Raymond Dist. Pit	3/4" stone	14
2/6/23	Milton Pit	screened sand	43	"	Evroks (Allentown)	fill	18
"	Constructors 381	ledge	36	4/11/23	Litchfield S&G	1/2" stone	75
2/7/23	Milton Pit	screened sand	61	"	Evroks (Allentown)	loam	18
"	6 Industrial Way	stump grindings	90	4/12/23	Litchfield S&G	1/2" stone	50
2/8/23	Milton Pit	screened sand	18	"	Raymond Dist. Pit	3/4" stone	90
"	6 Industrial Way	stump grindings	90	"	Evroks (Allentown)	loam	36
2/10/23	Vitex	concrete	75	4/13/23	Sagamore Ave.	old asphalt	18
2/13/23	Milton Pit	screened sand	25	"	Auburn Self Storage	concrete	54
"	Canterbury Commons	old asphalt	14	4/14/23	GMC Dealership	old asphalt	25
2/14/23	Parson Woods	concrete	25	"	Auburn Self Storage	"	18
2/21/23	Milton Pit	screened sand	18	4/17/23	Sagamore Ave.	"	18
"	"	sand	25	4/18/23	Nashua Middle School	stump grindings	14
"	Landing Way	ledge	96	4/19/23	Auburn Self Storage	"	36
2/22/23	Milton Pit	sand	25	4/20/23	Nashua Middle School	raw loam	32
"	Vitex	concrete	18	4/21/23	"	"	18
2/27/23	Stevens Mill Redev.	"	18	"	"	rip rap	14
3/2/23	Milton Pit	screened gravel	18	"	Denet Rd.	old asphalt	18
"	Stevens Mill Redev.	"	18	4/24/23	Nashua Middle School	raw loam	32
3/3/23	Milton Pit	pipe sand	18	"	Sagamore Ave.	ledge	18
"	"	sand	18	4/25/23	6 Industrial Way	concrete	18
3/6/23	"	"	18	4/26/23	Raymond Dist. Pit	1 1/2" stone	182

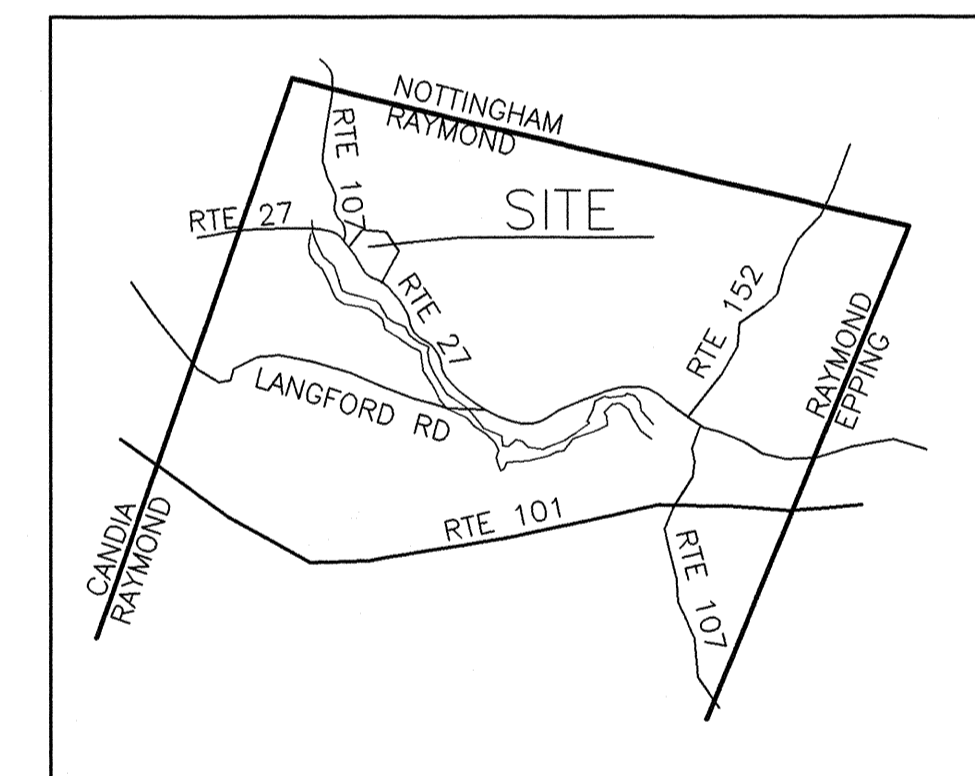
PROPOSED EXCAVATION

MAP 7 LOTS 4 & 4A

RTE 27, RAYMOND, N.H.

SHEET INDEX

- C1 EXISTING CONDITIONS PLAN 1"=60'
- C2 PROPOSED EXCAVATION PLAN 1"=50'
- C3 PROPOSED RECLAMATION PLAN 1"=50'
- X1-X2 CROSS SECTIONS
- E1 EROSION & SEDIMENT CONTROL DETAILS
- IC1 INTERIM CONDITIONS PLAN 5/23/2023



LOCUS PLAN
N.T.S.

OPERATOR

SEVERINO TRUCKING CO. INC.
RONALD SEVERINO, PRESIDENT
PO BOX 202, CANDIA, N.H. 03034
PHONE: 603-483-2133
FAX: 603-483-2998

ENGINEER: RANDALL B. JONES, P.E.

JONES & BEACH ENGINEERS, INC.
P.O. BOX 219
85 PORTSMOUTH AVE.
STRATHAM, N.H. 03885
PHONE: 603-772-4746
FAX: 603-772-0227



APPROVED BY THE RAYMOND PLANNING BOARD ON _____
CERTIFIED BY: _____ _____ _____

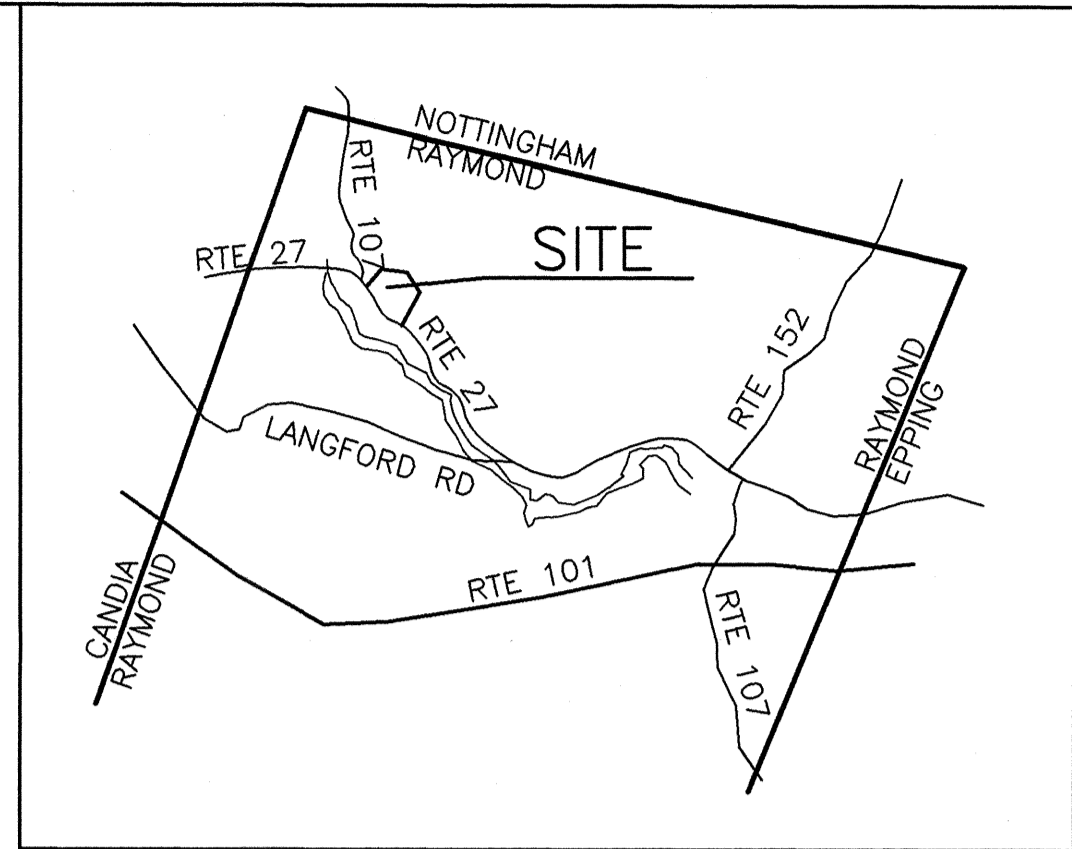
PLAN REFERENCES:

"SURVEY PLAN PREPARED FOR RONALD SEVERINO
 ASSESSORS MAP 17 LOTS 4 & 4A"
 BY JAMES FRANKLIN DATED MAY 25, 1995, R.C.R.D. PLAN #23985

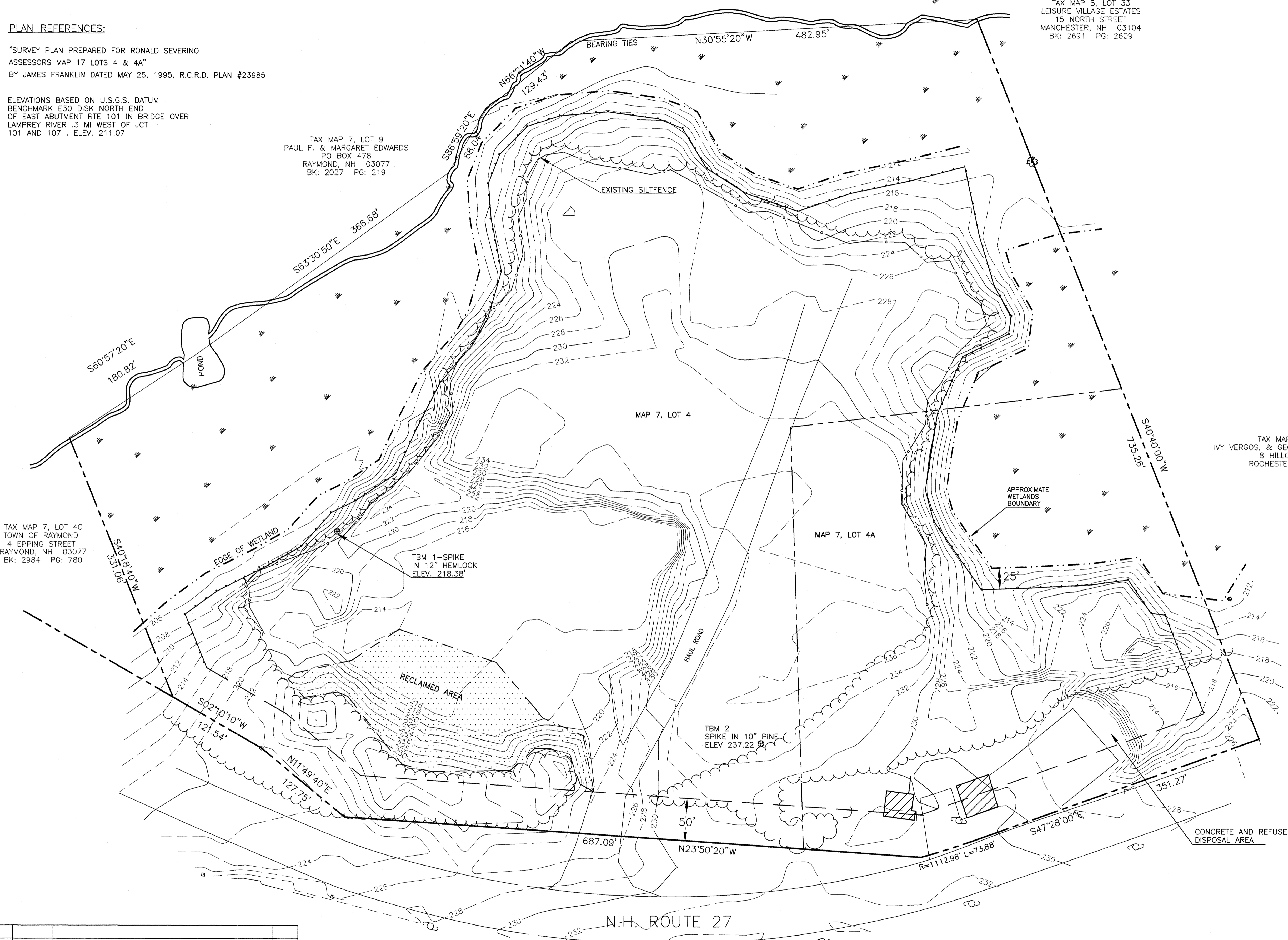
ELEVATIONS BASED ON U.S.G.S. DATUM
 BENCHMARK E30 DISK NORTH END
 OF EAST ABUTMENT RTE 101 IN BRIDGE OVER
 LAMPREY RIVER .3 MI WEST OF JCT
 101 AND 107 . ELEV. 211.07

TAX MAP 7, LOT 9
 PAUL F. & MARGARET EDWARDS
 PO BOX 478
 RAYMOND, NH 03077
 BK: 2027 PG: 219

TAX MAP 8, LOT 33
 LEISURE VILLAGE ESTATES
 15 NORTH STREET
 MANCHESTER, NH 03104
 BK: 2691 PG: 2609



LOCUS PLAN
 N.T.S.



TAX MAP 7, LOT 4B
 IVY VERGOS, & GEORGE & EVELYN BAKER
 8 HILLCREST DRIVE
 ROCHESTER, NH 03867

LEGEND

	UTILITY POLE
	TEST PITS
	HIGH CONTOURS
	LOW CONTOURS
	PROPERTY LINES
	WETLAND BOUNDARIES
	EDGE OF WOODS

OWNER OF RECORD
 RONALD A. SEVERINO
 PO BOX 202
 CANDIA N.H.
 BOOK 3032 PG 81 R.C.R.D.

OPERATOR
 SEVERINO TRUCKING CO., INC.
 RONALD A. SEVERINO, PRESIDENT
 PO BOX 202
 CANDIA N.H.
 PHONE (603)483-2133
 FAX (603)483-2998

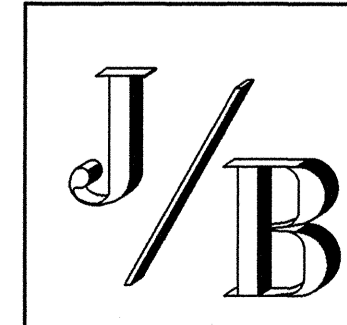
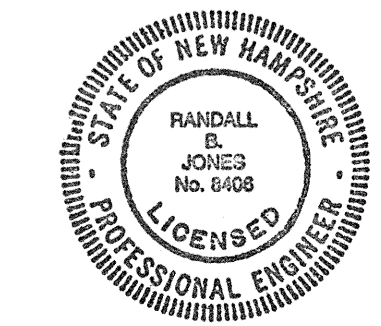
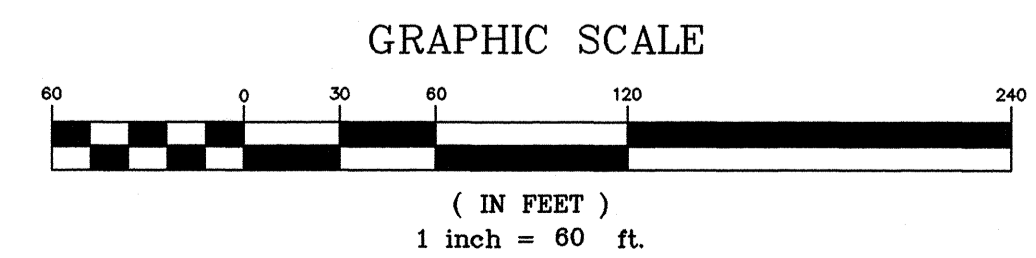
TOTAL AREA
 22.37 AC

REVISED: MAY 11, 1998

MAP 7 LOTS 4 & 4A
 N.H. RTE 27, RAYMOND, N.H.

SEVERINO TRUCKING CO INC
 EXISTING CONDITIONS PLAN

NO.	DATE	REVISION	DESIGNED	CHECKED	APPROVED	DRAWN
0	11/26/97	ISSUED FOR APPROVAL	KAB	JSR	RBJ	RBJ



JONES & BEACH ENGINEERS, INC.
 85 PORTSMOUTH AVENUE
 STRATHAM, N.H. 03885
 PHONE 772-4746 FAX 772-0227

SCALE : 1" = 60'	DATE : 11/25/97	FILE : 97155	REV : 0	DRAWING NO. C1	SHEET NO. 1 OF 6
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2036

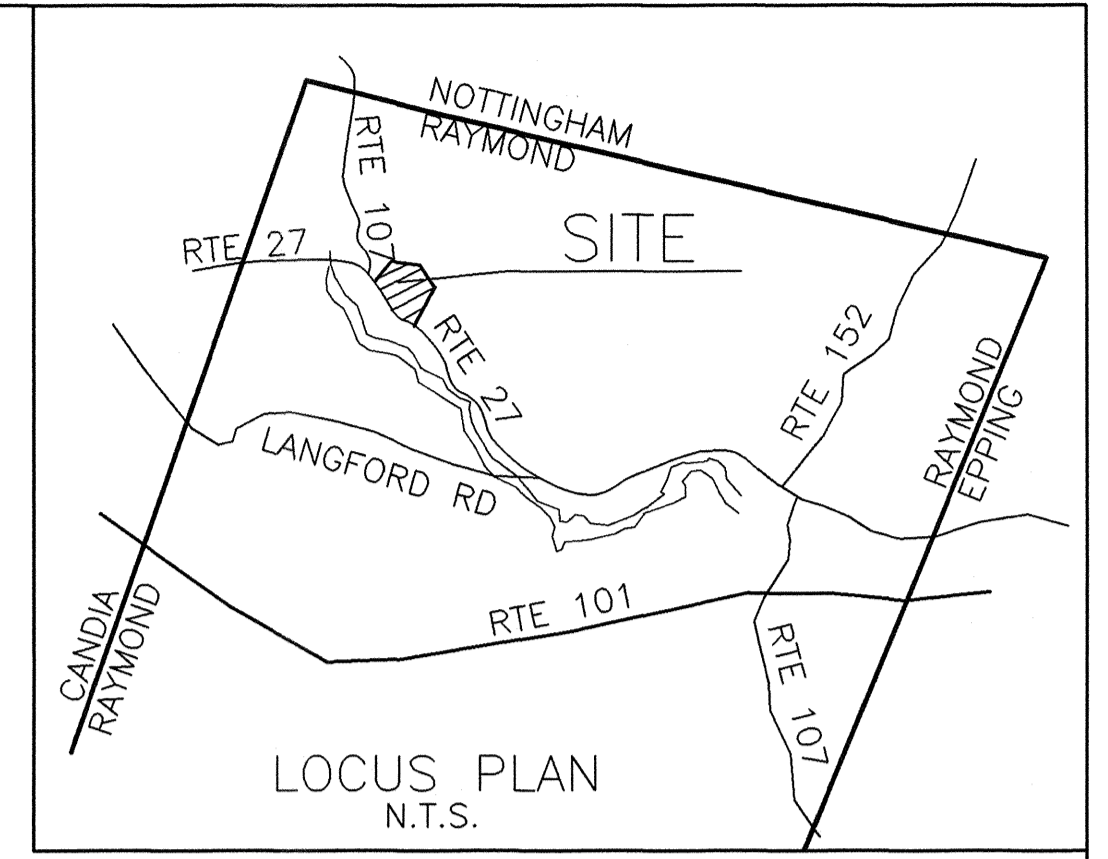
APPROVED BY THE RAYMOND PLANNING BOARD
ON _____

CERTIFIED BY:

TAX MAP 7, LOT 9
PAUL F. & MARGARET EDWARDS
PO BOX 478
RAYMOND, NH 03077
BK: 2027 PG: 219

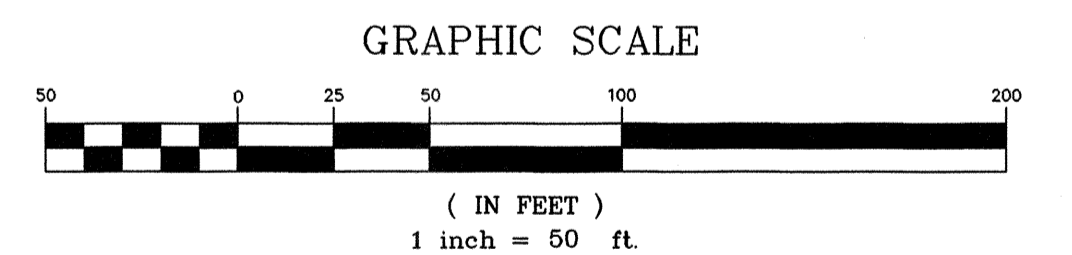
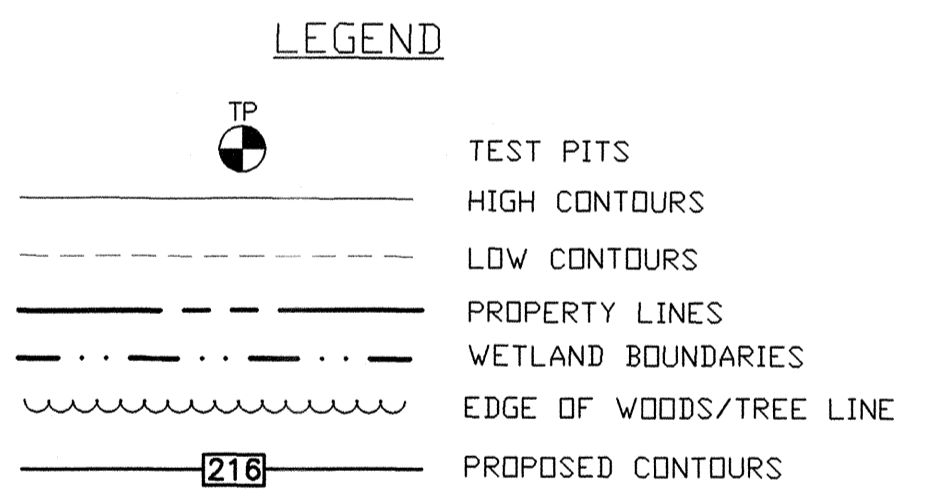
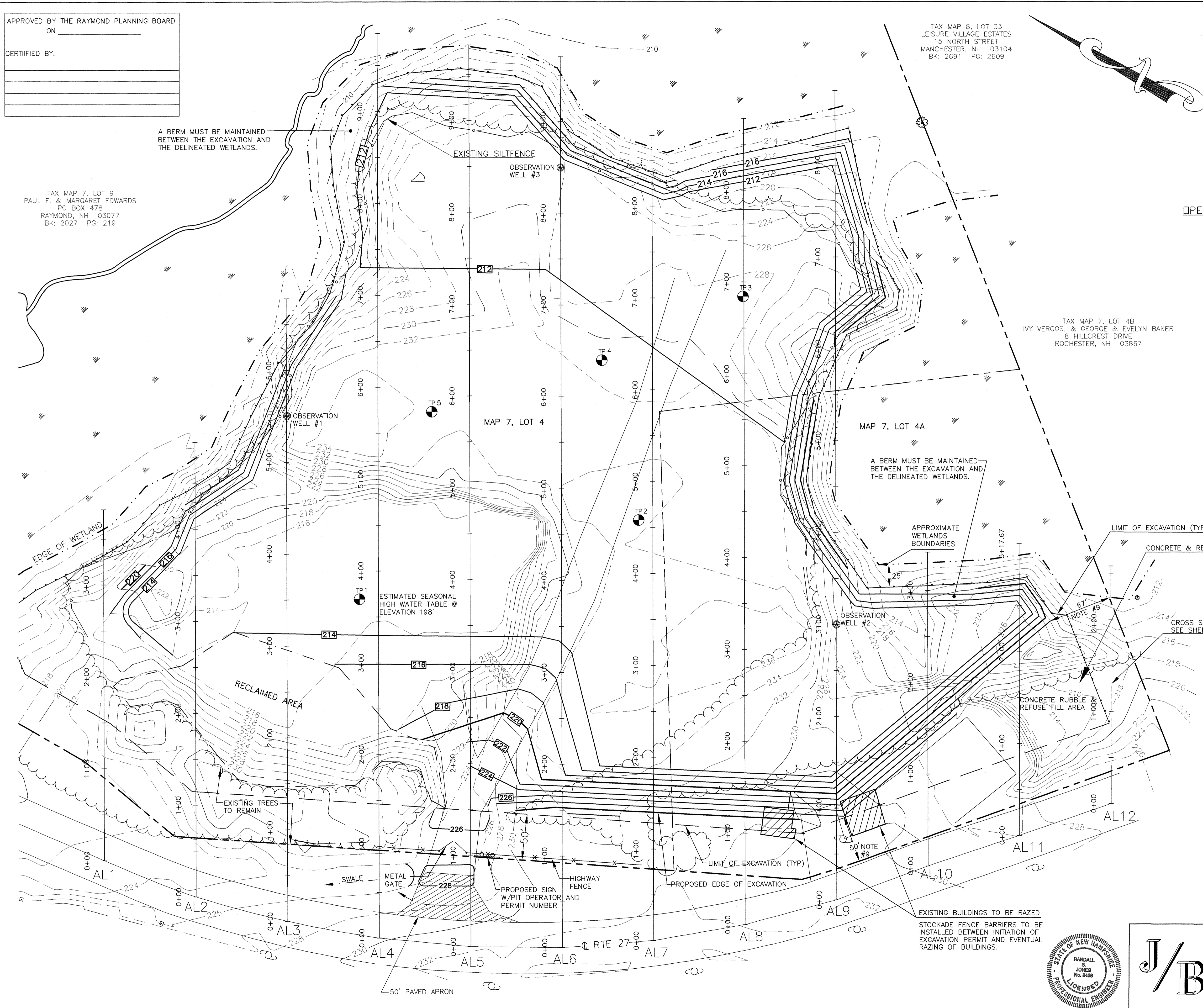
TAX MAP 8, LOT 33
LEISURE VILLAGE ESTATES
15 NORTH STREET
MANCHESTER, NH 03104
BK: 2691 PG: 2609

TAX MAP 7, LOT 4B
IVY VERGOS, & GEORGE & EVELYN BAKER
8 HILLCREST DRIVE
ROCHESTER, NH 03867



OPERATION NOTES:

- PROPOSED EXCAVATION LOCATED WITHIN A STRATIFIED-DRIFT AQUIFER AS SHOWN ON MAPS WITHIN USGS OPEN-FILE REPORT 92-95 STRATIFIED-DRIFT AQUIFERS IN THE EXETER, LAMPREY, AND OYSTER RIVER BASINS. (SEE WELL #6)
- AREA OF PROPOSED EXCAVATION: 13.27 ACRES, 578,000 SQUARE FEET
- VOLUME OF MATERIAL: 220,000 CUBIC YARDS
- PROJECT DURATION: 5 YEARS
- ESTIMATED SEASONAL HIGH WATER TABLE DETERMINED TO BE AT ELEVATION 198' AT TEST HOLE #1. PROPOSED EXCAVATION IS A MINIMUM OF 13 FEET ABOVE ESHWT.
- TRUCK TRAFFIC:
 - A. TRIPS PER DAY: 100 LOADS PER DAY MAX.
 - B. TYPE OF VEHICLES: 1-15 TRUCKS PER DAY
 - C. WEIGHT LIMITS: 10 WHEELERS - 65,000 LBS. TRAILER DUMP BODIES - 100,000 LBS. TRI-AXLE - 72,000 LBS.
- HOURS OF OPERATION: WAIVER GRANTED JUNE 4, 1998.
 - MACHINERY: 7:00AM - 5:00PM
 - MATERIAL REMOVAL: 7:00AM - 5:00PM
 - SATURDAY: 7:00AM - 12:00 (NOON)
- PERIMETER OF THE PIT SHALL BE SUITABLY POSTED WITH SIGNS AT A MAXIMUM 100 FOOT INTERVAL, NOTIFYING TRESPASSERS OF POTENTIAL DANGER.
- THE PROPOSED MINIMUM DISTANCE FROM EXCAVATION TO A SIDE PROPERTY LINE IS 67 FEET. THE PROPOSED MINIMUM DISTANCE FROM EXCAVATION TO A FRONT RIGHT-OF-WAY LINE IS 50 FEET.
- SITE SPECIFIC PERMIT #WPS-5001, JANUARY 28, 1998.
- TRUCKS WILL NOT QUE ONTO ROUTE 27 AND ARE NOT ALLOWED TO BACK OUT ONTO THE HIGHWAY. TRUCKS ARE ALSO PROHIBITED FROM BACKING FROM ROUTE 27 ONTO THE SITE.



OWNER OF RECORD
RONALD A. SEVERINO
PO BOX 202
CANDIA N.H.
BOOK 3032 PG 81 R.C.R.D.

OPERATOR
SEVERINO TRUCKING CO., INC.
RONALD A. SEVERINO, PRESIDENT
PO BOX 202
CANDIA N.H.
PHONE (603)483-2133
FAX (603)483-2998

TOTAL AREA
22.37 AC

PROPOSED EXCAVATION
13.2 AC

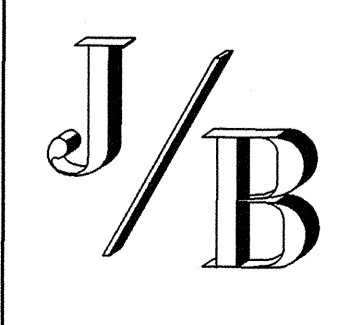
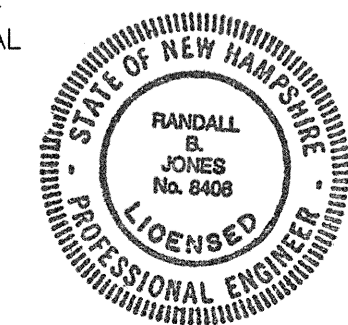
REVISED: JUNE 8, 1998

MAP 7 LOTS 4 & 4A
NH RTE 27, RAYMOND, N.H.

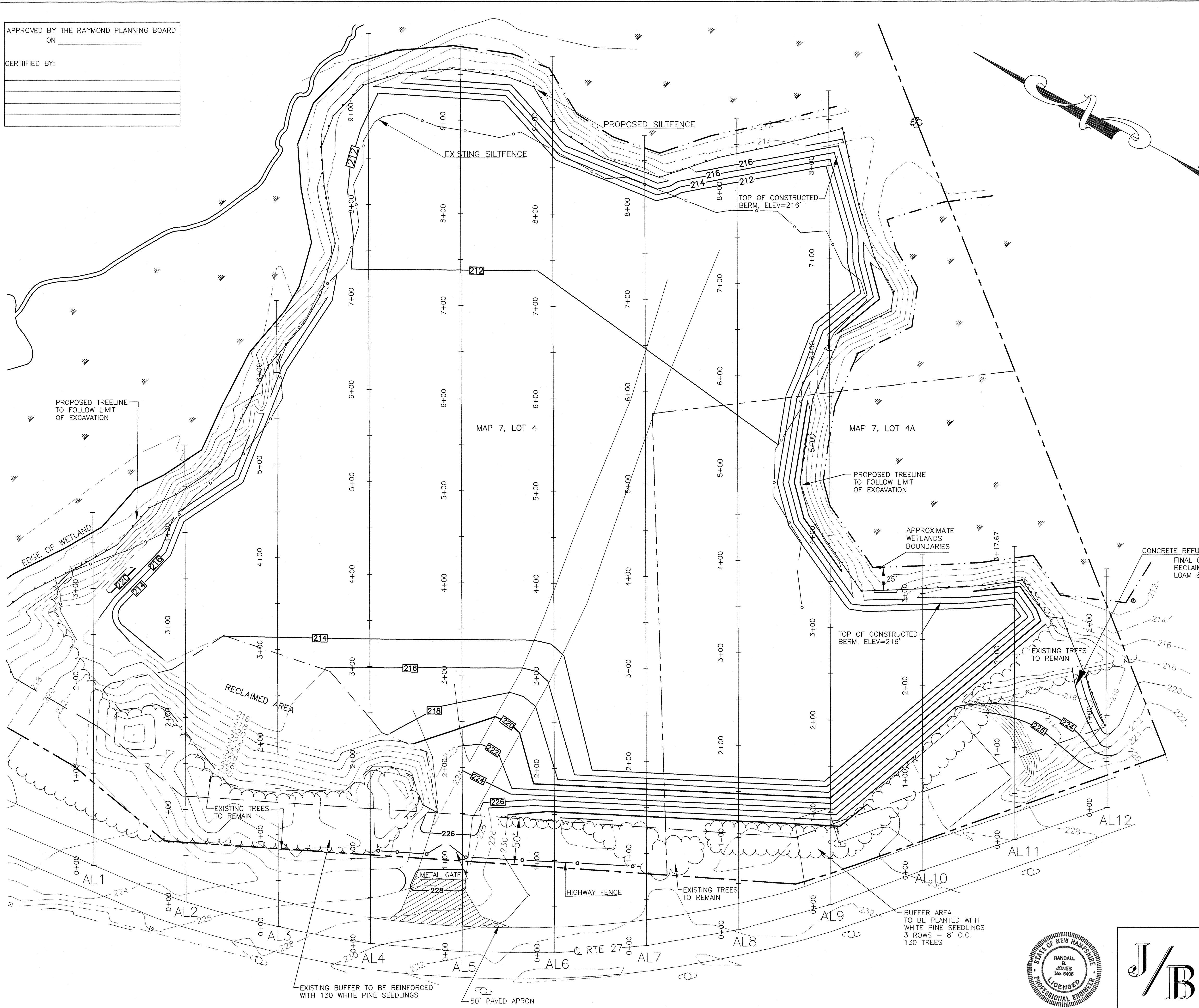
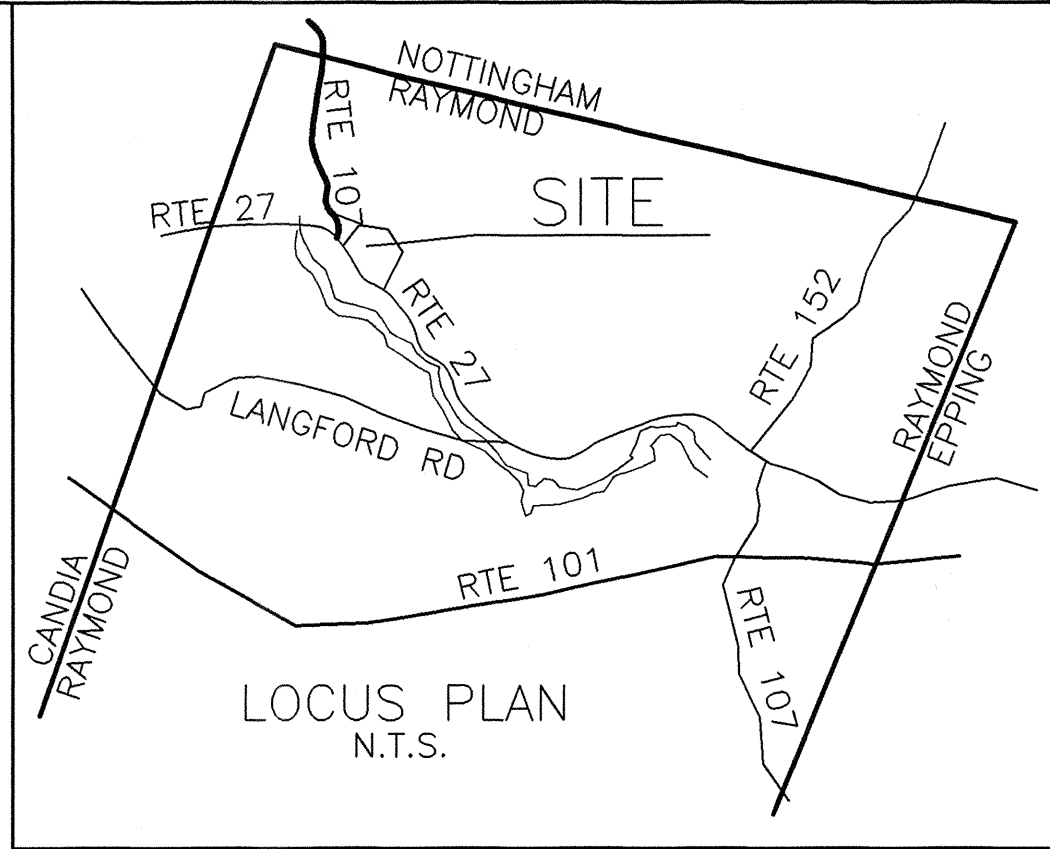
SEVERINO TRUCKING CO., INC.
PROPOSED EXCAVATION PLAN
NH RTE 27, RAYMOND, N.H

JONES & BEACH ENGINEERS, INC.
85 PORTSMOUTH AVENUE
STRATHAM, N.H. 03885
PHONE 772-4746 FAX 772-0227

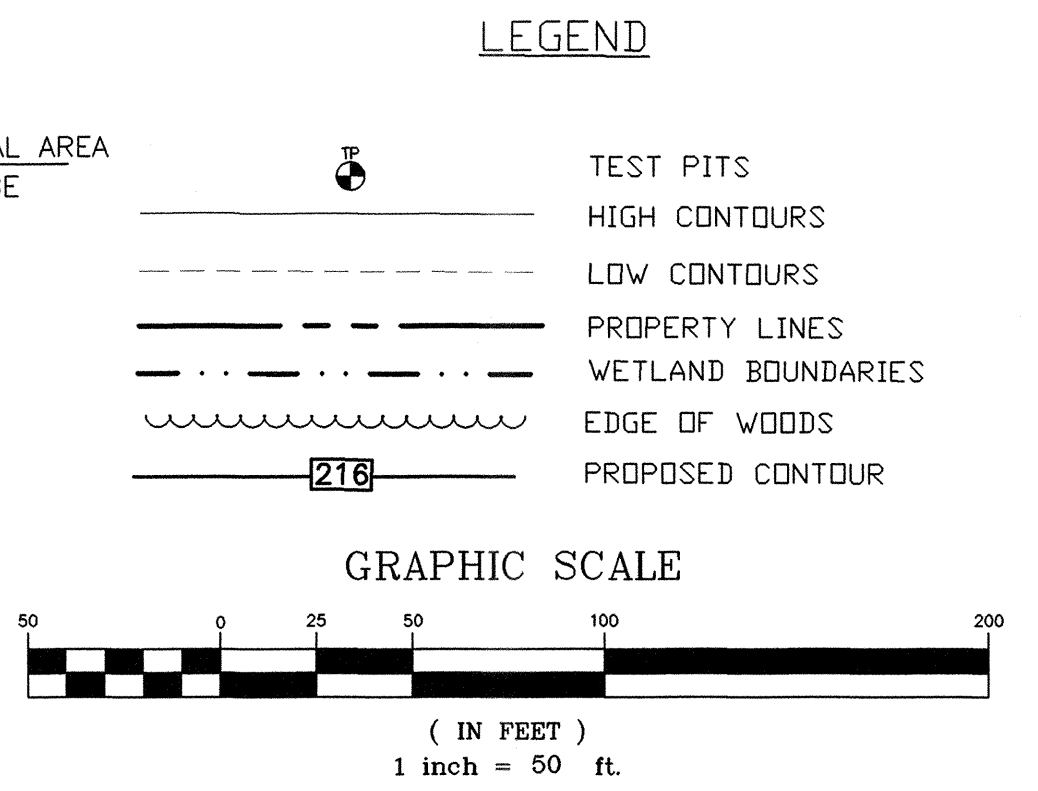
OWNER OF RECORD: RONALD A. SEVERINO
OPERATOR: SEVERINO TRUCKING CO., INC.
DRAWING NO. **C2**
SCALE: 1" = 50'
DATE: 11/25/97
FILE: SEVERINO
REV. SHEET NO. OF



APPROVED BY THE RAYMOND PLANNING BOARD
ON _____
CERTIFIED BY:



- RECLAMATION NOTES:**
1. RECLAMATION WILL BE CONDUCTED IN 5 ACRE INCREMENTS WITH PHASING MOVING FROM WEST TO EAST IN THE NORTHERN PORTION OF THE PIT AND FOLLOWED BY WEST TO EAST IN THE SOUTHERN PORTION OF THE PIT.
 2. ALL DISTURBED AREAS WILL BE GRADED TO A MAXIMUM SLOPE OF 3:1 (3 FEET HORIZONTAL TO 1 FOOT VERTICAL) AND A MINIMUM SLOPE OF 0.5%. ALL DISTURBED AREAS WILL BE SPREAD WITH A 4" LAYER OF REAPPLIED TOPSOIL, PER TOWN OF RAYMOND EXCAVATION REGULATIONS (R.E.R.) PLAN SHEET E-1, AND PROJECT NARRATIVE (RECLAMATION PLAN).
 3. RECLAIMED 3:1 SIDE SLOPES AND CONSTRUCTED BERMS TO BE PLANTED WITH WHITE PINE SEEDLINGS 8 FEET ON-CENTER. A PORTION OF THE RECLAIMED PIT FLOOR WILL BE USED AS A NURSERY AND BE PLANTED WITH BUFFER WHITE PINE SEEDLINGS THAT CAN BE PLANTED IMMEDIATELY DUE TO THE LOCATION OF EXISTING STRUCTURES TO BE RAIZED.
- WAIVER OF SEEDLING PLANTING ON PIT FLOOR GRANTED JUNE 4, 1998.



OWNER OF RECORD
RONALD A. SEVERINO
PO BOX 202
CANDIA N.H.
BOOK 3032 PG 81 R.C.R.D.

OPERATOR
SEVERINO TRUCKING CO., INC.
RONALD A. SEVERINO, PRESIDENT
PO BOX 202
CANDIA N.H.
PHONE (603)483-2133
FAX (603)483-2998

TOTAL AREA
22.37 AC

REVISED: JUNE 8, 1998

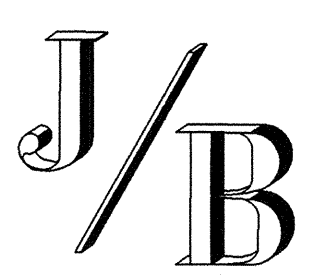
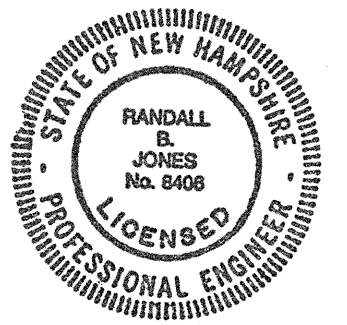
MAP 7 LOTS 4 & 4A
NH RTE 27, RAYMOND, N.H.

SEVERINO TRUCKING CO., INC.
RECLAMATION PLAN
NH RTE 27, RAYMOND, N.H.

JONES & BEACH ENGINEERS, INC.
85 PORTSMOUTH AVENUE
STRATHAM, N.H. 03885
PHONE 772-4746 FAX 772-0227

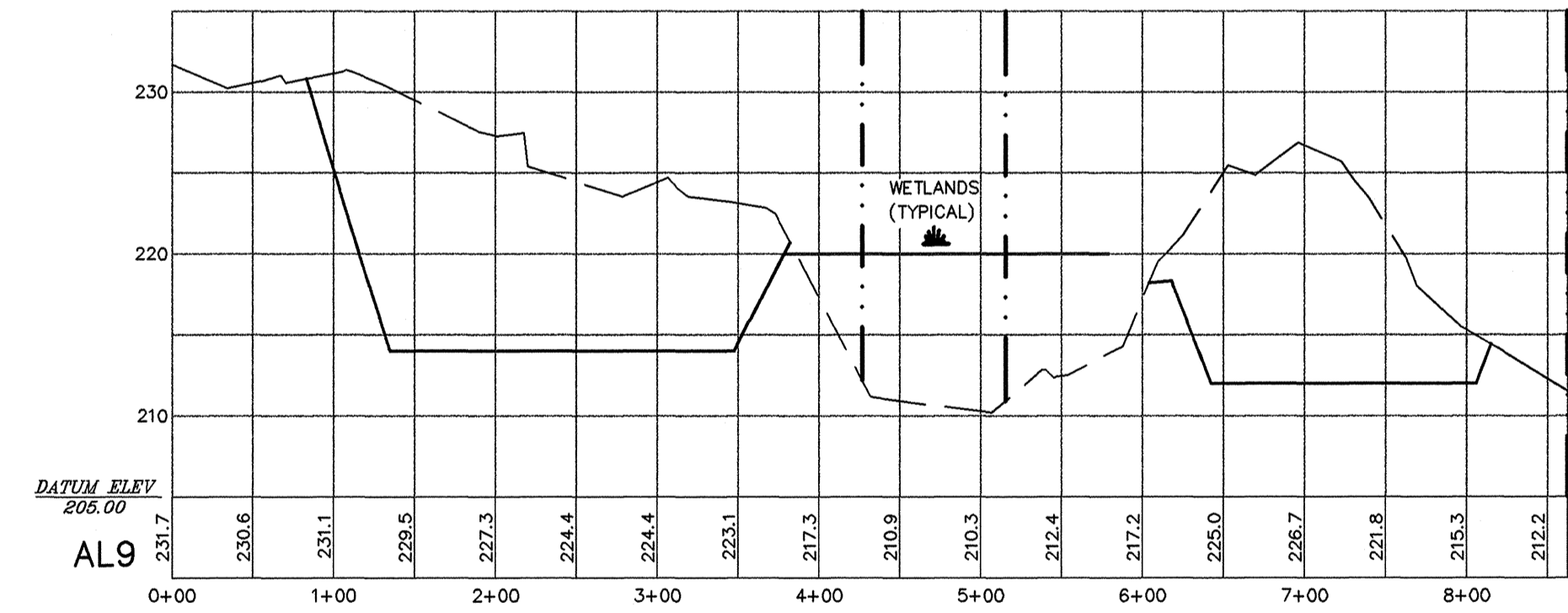
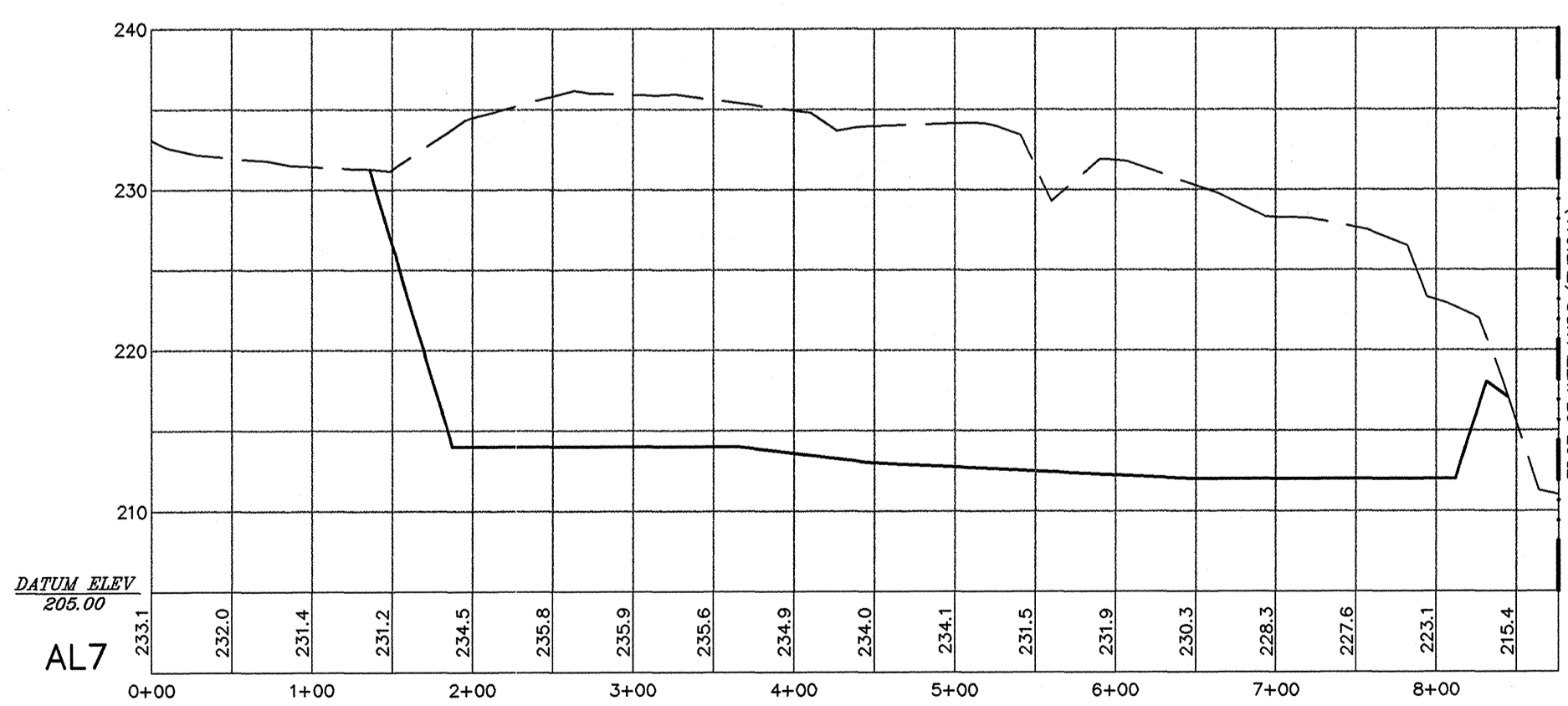
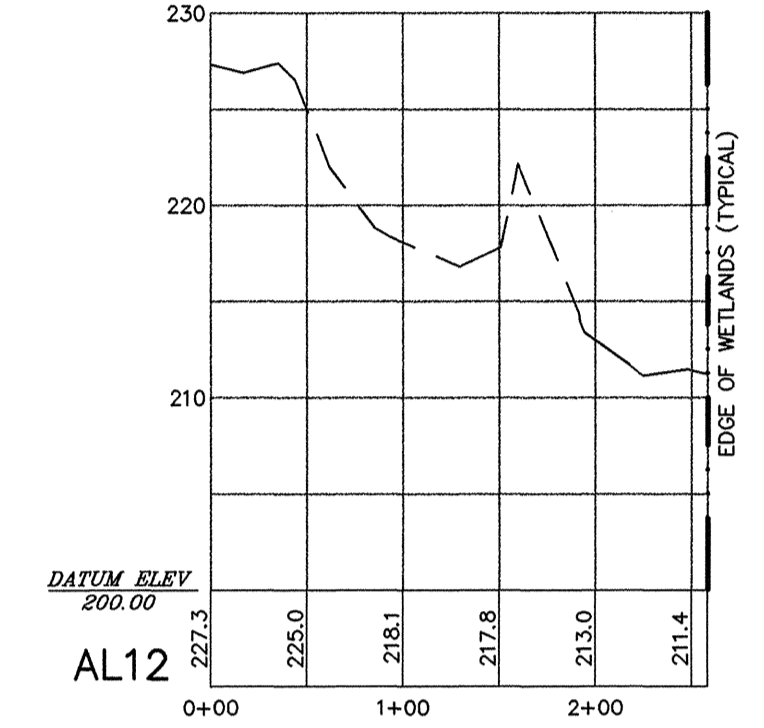
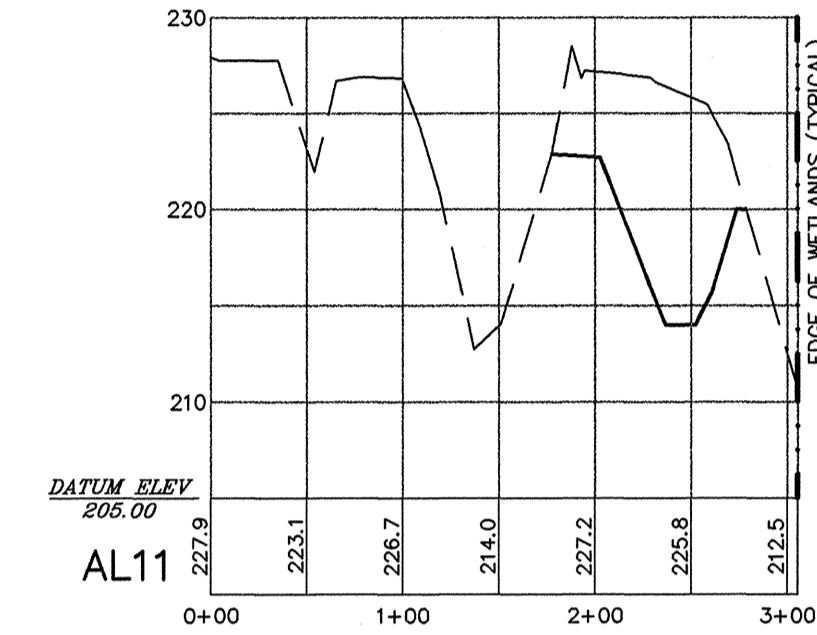
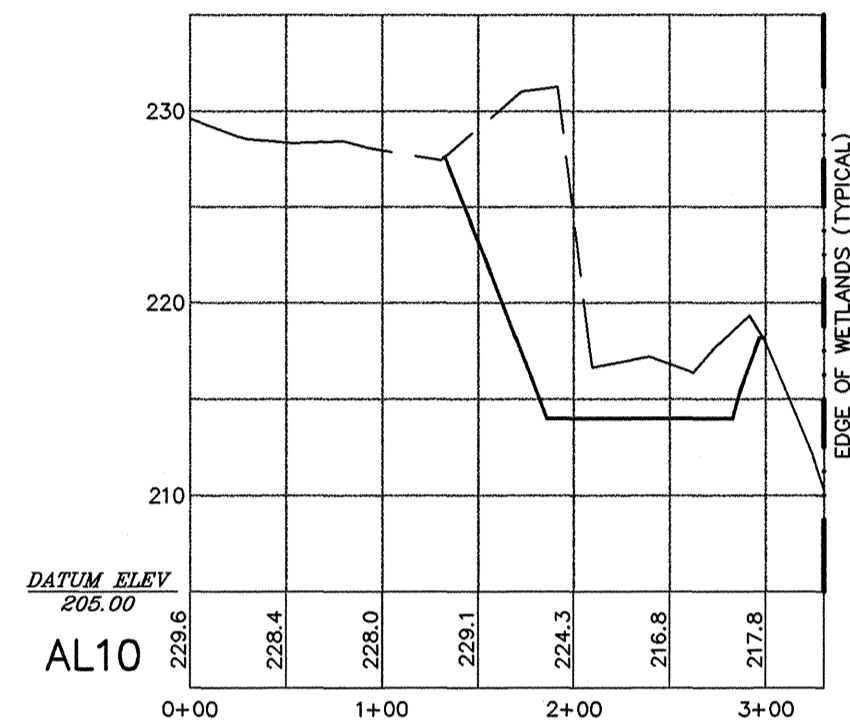
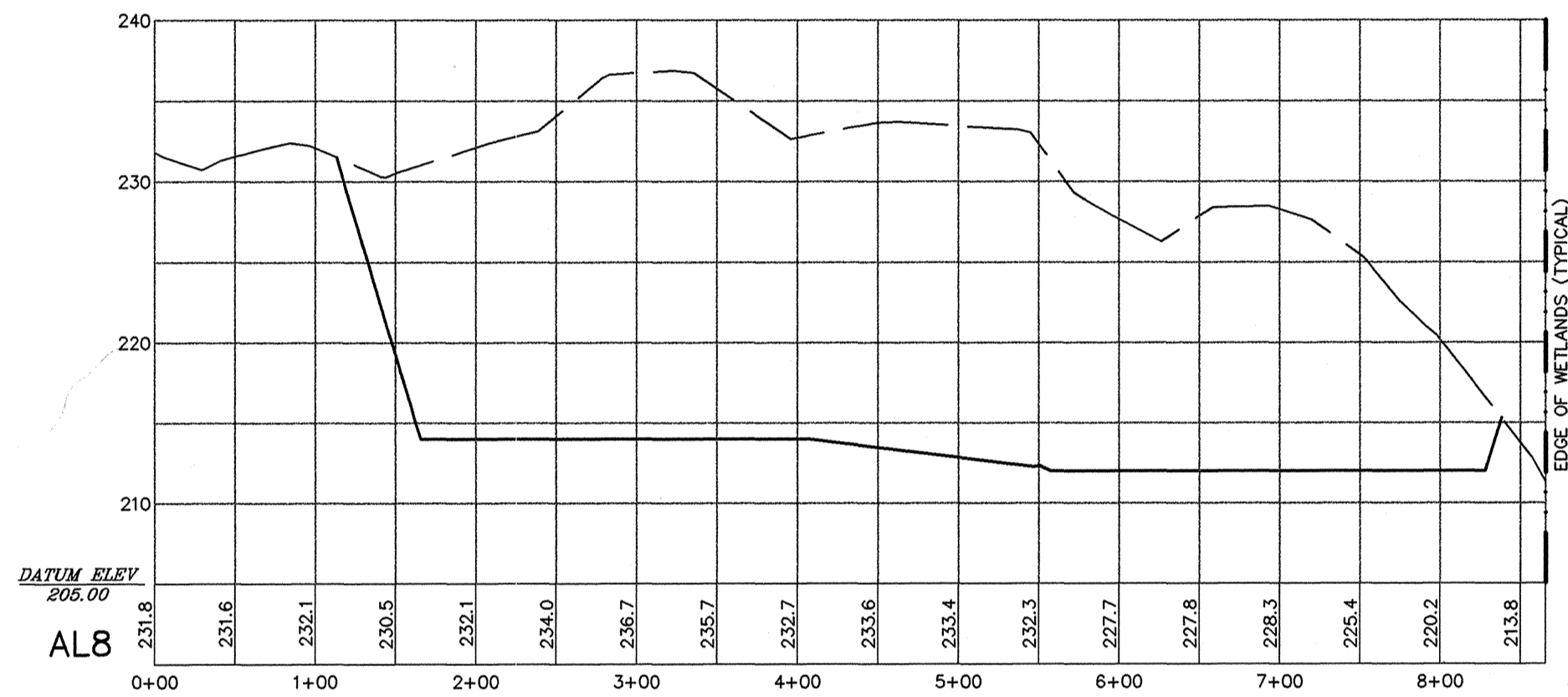
DRAWING NO.
C3

SCALE : 1" = 50'	DATE : 11/25/97	FILE : SEVERINO	REV.	SHEET NO. 3 OF 6
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EXISTING BUFFER TO BE REINFORCED WITH 150 WHITE PINE SEEDLINGS
50' PAVED APRON

BUFFER AREA TO BE PLANTED WITH WHITE PINE SEEDLINGS 3 ROWS - 8' O.C. 150 TREES



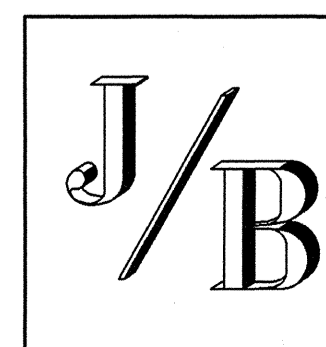
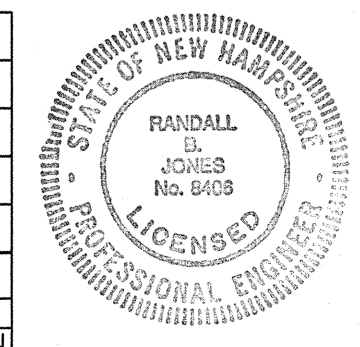
LEGEND

- EXISTING GRADE -----
- PROPOSED GRADE _____
- EDGE OF WETLANDS - . - . - .

MAP 7, LOT 4 & 4A
NH RTE 27, RAYMOND, N.H.

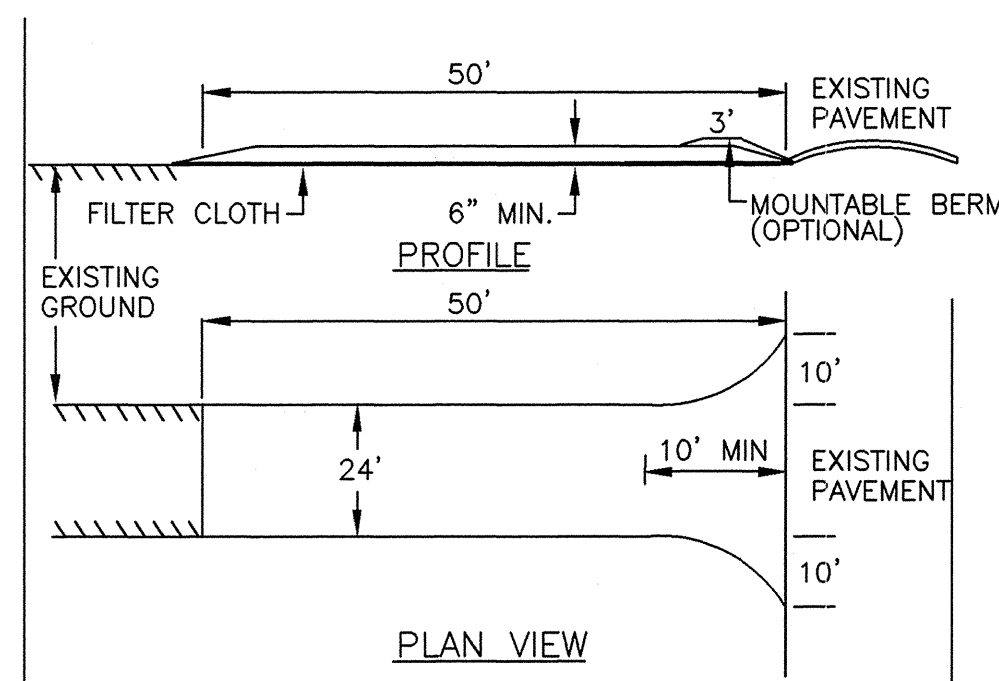
CROSS SECTIONS
SEVERINO TRUCKING CO., INC.
SAND & GRAVEL PIT EXCAVATION

0	11/25/97	ISSUED FOR APPROVAL	PRWH
NO.	DATE	REVISION	
	KAB	DESIGNED	
	RBJ	CHECKED	
	RBJ	APPROVED	
		DRAWN	



SCALE : 1" = 10' V 1" = 100' H		DATE : 11/25/97	FILE : C:\SEVERINO	REV.	SHEET NO. --- OF ---
JONES & BEACH ENGINEERS, INC. 85 PORTSMOUTH AVENUE STRATHAM, N.H. 03885 PHONE 772-4746 FAX 772-0227				DRAWING NO. X2	2036 1

B
E-1 STABILIZED CONSTRUCTION ENTRANCE
N.T.S.



- STONE FOR A STABILIZED CONSTRUCTION ENTRANCE SHALL BE 1 TO 2 INCH STONE, RECLAIMED STONE, OR RECYCLED CONCRETE EQUIVALENT.
- THE LENGTH OF THE STABILIZED ENTRANCE SHALL NOT BE LESS THAN 50 FEET, EXCEPT FOR A SINGLE RESIDENTIAL LOT WHERE A 30 FOOT MINIMUM LENGTH WOULD APPLY.
- THE THICKNESS OF THE STONE FOR THE STABILIZED ENTRANCE SHALL NOT BE LESS THAN 6 INCHES.
- THE WIDTH OF THE ENTRANCE SHALL NOT BE LESS THAN THE FULL WIDTH OF THE ENTRANCE WHERE INGRESS OR EGRESS OCCURS OR 10 FEET, WHICH EVER IS GREATER.
- GEOTEXTILE FILTER CLOTH SHALL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING THE STONE. FILTER CLOTH IS NOT REQUIRED FOR A SINGLE FAMILY RESIDENCE LOT.
- ALL SURFACE WATER THAT IS FLOWING TO OR DIVERTED TOWARD THE CONSTRUCTION ENTRANCE SHALL BE PIPED BENEATH THE ENTRANCE. IF PIPING IS IMPRACTICAL, A BERM WITH 5:1 SLOPES THAT CAN BE CROSSED BY VEHICLES MAY BE SUBSTITUTED FOR THE PIPE.
- THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOPDRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, WASHED, OR TRACKED ONTO PUBLIC RIGHT-OF-WAY MUST BE REMOVED PROMPTLY.

TEMPORARY EROSION CONTROL MEASURES

- THE SMALLEST PRACTICAL AREA OF LAND SHALL BE EXPOSED AT ANY ONE TIME
- EROSION, SEDIMENT AND DETENSION MEASURES SHALL BE INSTALLED AS SHOWN ON THE PLANS AND AT LOCATIONS AS REQUIRED, DIRECTED BY THE ENGINEER
- ALL DISTURBED AREAS SHALL BE GRADED TO SPECIFIED ELEVATIONS. DISTURBED AREAS SHALL BE LOAMED WITH A MINIMUM OF 4" OF LOAM AND SEEDED WITH NOT LESS THAN ONE POUND OF SEED PER 50 SQUARE YARDS OF AREA. (SEE SEED SPECIFICATIONS THIS SHEET)
- SILT FENCES AND STRAW OR HAY BALES BARRIERS SHALL BE INSPECTED PERIODICALLY AND AFTER EVERY RAIN DURING THE LIFE OF THE PROJECT. ALL DAMAGED AREAS SHALL BE REPAIRED. SEDIMENT DEPOSITS SHALL PERIODICALLY BE REMOVED AND DISPOSED OF.
- AFTER ALL DISTURBED AREAS HAVE BEEN STABILIZED, THE TEMPORARY EROSION CONTROL MEASURES ARE TO BE REMOVED AND THE AREA DISTURBED BY THE REMOVAL SMOOTHED AND RE-VEGETATED
- ALL SEDIMENT AND EROSION CONTROL MEASURES WILL BE IN PLACE AND STABILIZED PRIOR TO HAVING RUN-OFF DIRECTED TO THEM.
- A BERM MUST BE MAINTAINED BETWEEN THE EXCAVATION AND THE DELINEATED WETLANDS.

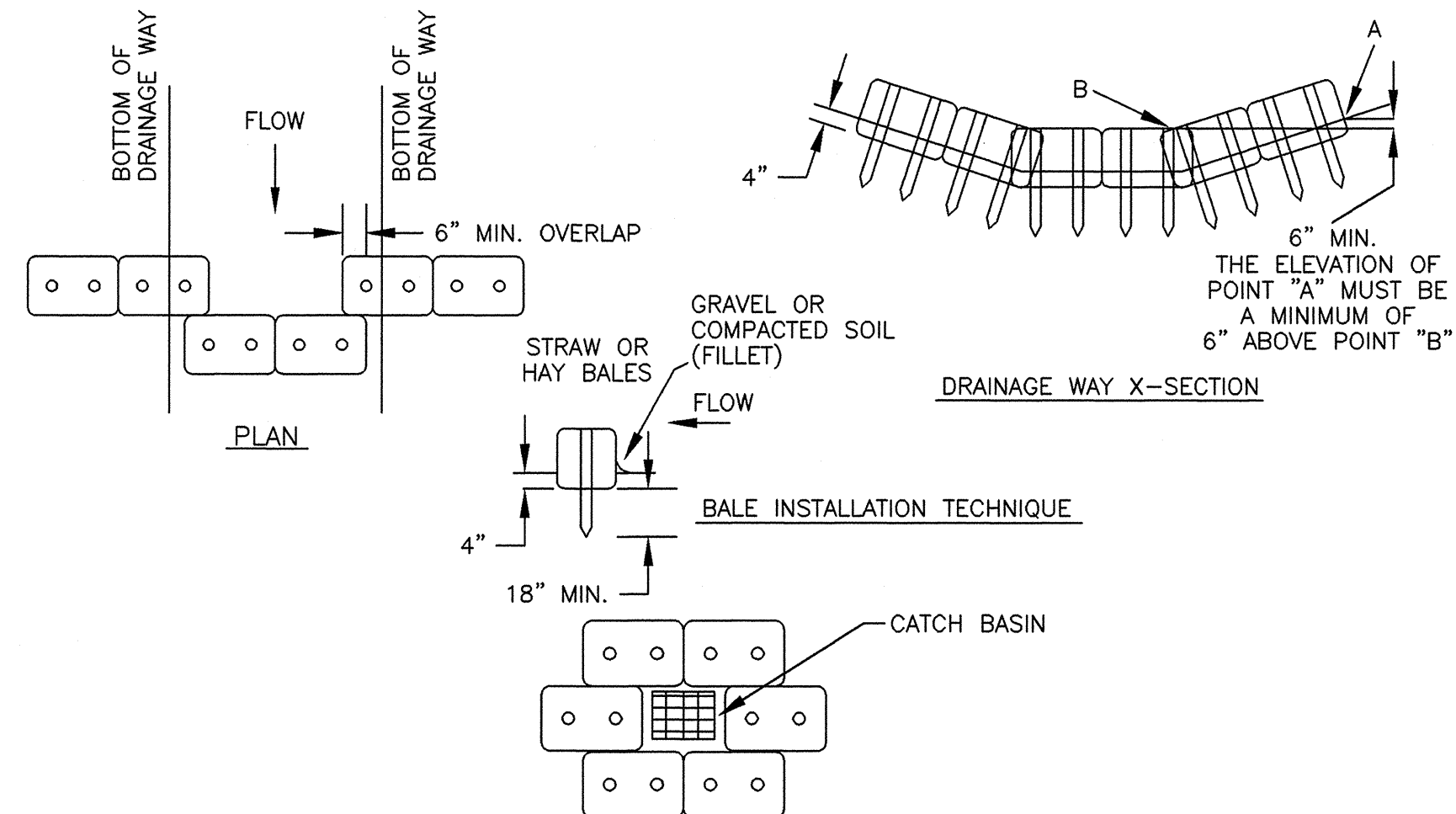
CONSTRUCTION SEQUENCE

- CUT AND REMOVE TREES IN CONSTRUCTION AREA ONLY AS REQUIRED
- CONSTRUCT AND/OR INSTALL TEMPORARY AND PERMANENT SEDIMENT EROSION AND DETENSION CONTROL FACILITIES AS REQUIRED. EROSION, SEDIMENT AND DETENSION CONTROL FACILITY SHALL BE INSTALLED & STABILIZED PRIOR TO ANY EARTH MOVING OPERATION & OR DIRECTING RUNOFF TO THEM
- CLEAR, CUT AND DISPOSE OF DEBRIS IN APPROVED FACILITY
- CONSTRUCT TEMPORARY CULVERTS AS REQUIRED, OR DIRECTED
- CONSTRUCT ROADWAYS FOR ACCESS TO DESIRED CONSTRUCTION AREAS. ALL ROADS SHALL BE STABILIZED IMMEDIATELY AFTER GRADING
- CONDUCT EXCAVATION ACTIVITIES.
- BEGIN PERMANENT AND TEMPORARY SEEDING AND MULCHING. ALL CUT AND FILL SLOPES AND DISTURBED AREAS SHALL BE SEEDED OR MULCHED AS REQUIRED, OR DIRECTED.
- RECLAMATION WILL BE ACCOMPLISHED IN 5 ACRE SEGMENTS.
 - RECLAMATION STANDARD: WITHIN TWELVE (12) MONTHS AFTER THE EXPIRATION DATE IN A PERMIT ISSUED UNDER THESE REGULATIONS, OR AFTER COMPLETION OF ANY EXCAVATION, THE EXCAVATED LAND SHALL HAVE COMPLETED THE RECLAMATION OF THE AREAS AFFECTED BY THE EXCAVATION.
 - INCREMENTAL RECLAMATION: ANY EXCAVATED AREA OF FIVE (5) CONTIGUOUS ACRES OR MORE, FROM WHICH NO EARTH MATERIALS HAVE BEEN REMOVED FOR A TWO (2) YEAR PERIOD, SHALL BE RECLAIMED IN ACCORDANCE WITH THE TOWN OF EPPING REGULATIONS AND RSA 155-E:5, WITHIN TWELVE (12) MONTHS FOLLOWING SUCH DEPLETION.
- DAILY, OR AS REQUIRED CONSTRUCT TEMPORARY BERMS, DRAINS DITCHES, SILT FENCES, SEDIMENT TRAPS, ETC. MULCH AND SEED AS REQUIRED.
- INSPECT AND MAINTAIN ALL EROSION AND SEDIMENT CONTROL MEASURES DURING CONSTRUCTION
- COMPLETE PERMANENT SEEDING AND LANDSCAPING
- REMOVE TEMPORARY EROSION CONTROL MEASURES AFTER SEEDING AREAS HAVE ESTABLISHED THEMSELVES AND SITE IMPROVEMENTS ARE COMPLETE. SMOOTH AND REVEGETATE ALL DISTURBED AREAS.

F
E-1 SEEDING SPECIFICATIONS

- Grading and Shaping
 - Slopes shall not be steeper than 2:1; 3:1 slopes or flatter are preferred. Where mowing will be done, 3:1 slopes or flatter are recommended.
- Seedbed Preparation
 - Surface and seepage water should be drained or diverted from the site to prevent drowning or winter killing of the plants.
 - Stones larger than 4 inches and trash should be removed because they interfere with seeding and future maintenance of the area. Where feasible, the soil should be tilled to a depth of about 4 inches to prepare a seedbed and mix fertilizer and lime into the soil. The seedbed should be left in reasonably firm and smooth condition. The last tillage operation should be performed across the slope wherever practical.
- Establishing a Stand
 - Lime and fertilizer should be applied prior to or at the time of seeding and incorporated into the soil kinds and amounts of lime and fertilizer should be based on an evaluation of soil tests. When a soil test is not available, the following minimum amounts should be applied:
Agricultural limestone, 2 tons per acre or 100lbs. per 1,000 sq.ft.
Nitrogen(N), 50lbs. per acre or 1.1lbs. per 1,000 sq.ft.
Phosphate(P2O5), 100lbs. per acre or 2.2lbs. per 1,000 sq.ft.
Potash(K2O), 100lbs. per acre or 2.2lbs. per 1,000 sq.ft.
(Note: This is the equivalent of 500lbs. per acre of 10-20-20 fertilizer or 1,000lbs. per acre of 5-10-10.)

- Seed should be spread uniformly by the method most appropriate for the site. Methods include broadcasting, drilling and hydroseeding. Where broadcasting is used, cover seed with .25 inch of soil or less, by cultipacking or raking.
 - Refer to Table 7-35 for appropriate seed mixtures and Table 7-36 for rates of seeding. All legumes (crownvetch, birdsfoot trefoil, and flatpea) must be inoculated with their specific inoculant.
 - When seeded areas are mulched, plantings may be made from early spring to early October. When seeded areas are not mulched, plantings should be made from early spring to May 20 or from August 10 to September 1.
- Mulch
 - Hay, straw, or other mulch, when needed, should be applied immediately after seeding.
 - Mulch will be held in place using appropriate techniques from the Best Management Practice for mulching.
 - Maintenance to Establish a Stand
 - Planted area should be protected from damage by fire, grazing, traffic, and dense weed growth.
 - Fertilization needs should be determined by onsite inspections. Supplemental fertilizer is usually the key to fully complete the establishment of the stand because most perennial stake 2 to 3 years to become established.
 - In waterways, channels, or swales where uniform flow conditions are anticipated, occasional mowing may be necessary to control growth of woody vegetation.



EROSION PROTECTION
TYPE "E"

NORMAL USE AROUND CATCH BASINS
NOT TO SCALE

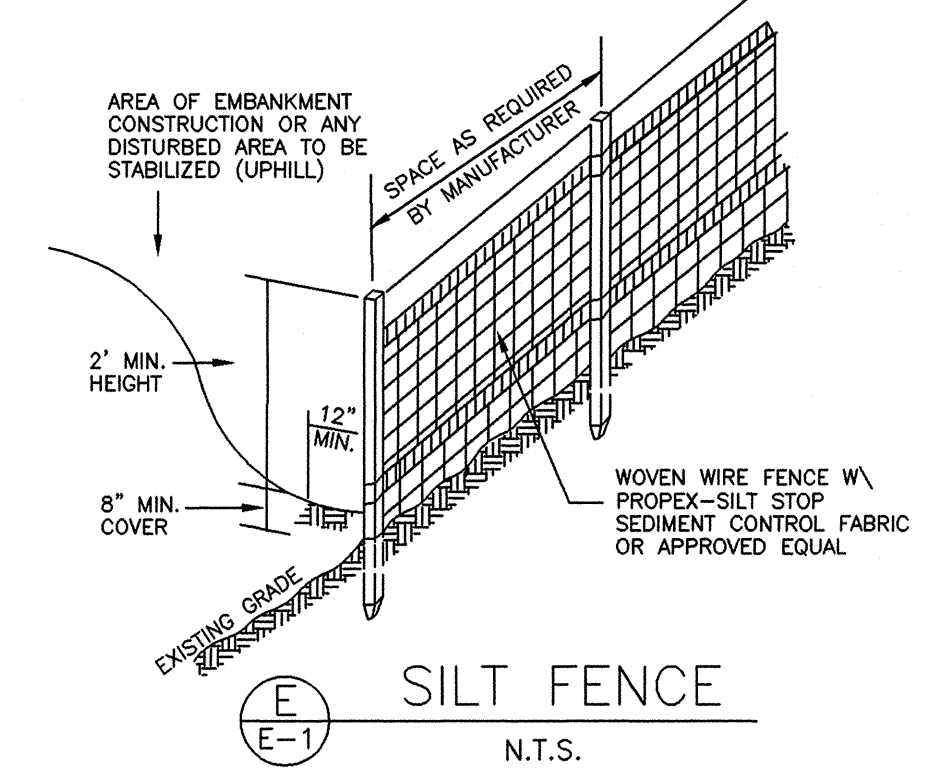
D
E-1 CONSTRUCTION SPECIFICATIONS
FOR STRAW OR HAY BALE BARRIERS

- STRUCTURES SHALL BE INSTALLED ACCORDING TO THE DIMENSIONS SHOWN ON THE PLANS AT THE APPROPRIATE SPACING.
- CONSTRUCTION OPERATIONS SHALL BE CARRIED OUT IN SUCH A MANNER SO THAT EROSION AND AIR AND WATER POLLUTION WILL BE MINIMIZED.
- WHEN HAY BALES ARE USED, THE BALES SHALL BE EMBEDDED AT LEAST 4 INCHES INTO THE SOIL. WHEN TIMBER STRUCTURES ARE USED, THE TIMBER SHALL EXTEND AT LEAST 18 INCHES INTO THE SOIL.
- HAY OR STRAW BALES SHALL BE ANCHORED INTO THE SOIL USING 2" X 2" STAKES DRIVEN THROUGH THE BALES AND AT LEAST 18 INCHES INTO THE SOIL.
- SEEDING, FERTILIZING, AND MULCHING SHALL CONFORM TO THE RECOMMENDATIONS IN THE APPROPRIATE VEGETATIVE BMP.
- STRUCTURES SHALL BE REMOVED FROM THE CHANNEL WHEN THEIR USEFUL LIFE HAS BEEN COMPLETED.

G
E-1 Seeding Guide

USE	SEEDING MIXTURE 1/	DROUGHTY	WELL DRAINED	MODERATELY WELL DRAINED	POORLY DRAINED
STEEP CUTS AND FILLS, BORROW AND DISPOSAL AREAS	A	FAIR	GOOD	GOOD	FAIR
	B	POOR	GOOD	FAIR	FAIR
	C	POOR	GOOD	EXCELLENT	GOOD
	D	FAIR	FAIR	GOOD	EXCELLENT
	E	FAIR	EXCELLENT	EXCELLENT	POOR
WATERWAYS, EMERGENCY SPILLWAYS, AND OTHER CHANNELS WITH FLOWING WATER.	A	GOOD	GOOD	GOOD	FAIR
	C	GOOD	EXCELLENT	EXCELLENT	FAIR
	D	GOOD	EXCELLENT	EXCELLENT	FAIR
	E	GOOD	EXCELLENT	EXCELLENT	FAIR
LIGHTLY USED PARKING LOTS, ODD AREAS, UNUSED LANDS, AND LOW INTENSITY USE RECREATION SITES.	A	GOOD	GOOD	GOOD	FAIR
	B	GOOD	GOOD	FAIR	POOR
	C	GOOD	EXCELLENT	EXCELLENT	FAIR
	D	FAIR	GOOD	GOOD	EXCELLENT
PLAY AREAS AND ATHLETIC FIELDS. (TOPSOIL IS ESSENTIAL FOR GOOD TURF.)	F	FAIR	EXCELLENT	EXCELLENT	2/

GRAVEL PIT—SEE NH-PA-24 IN APPENDIX FOR RECOMMENDATION REGARDING RECLAMATION OF SAND AND GRAVEL PITS.
1/ REFER TO SEEDING MIXTURES AND RATES IN TABLE 7-36.
2/ POORLY DRAINED SOILS ARE NOT DESIRABLE FOR USE AS PLAYING AREA AND ATHLETIC FIELDS.



CONSTRUCTION SPECIFICATIONS FOR SILT FENCES

- WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES AND FILTER CLOTH SHALL BE FASTENED TO WOVEN WIRE EVERY 24" AT TOP, MID AND BOTTOM SECTIONS AND BE EMBEDDED INTO GROUND A MINIMUM OF 8"
- THE FENCE POSTS SHALL BE A MINIMUM 48" LONG, SPACED A MAXIMUM 10' APART, AND DRIVEN A MINIMUM OF 18" INTO THE GROUND
- WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER, THE ENDS OF THE FABRIC SHALL BE OVERLAPPED BY SIX INCHES, FOLDED AND STAPLED TO PREVENT SEDIMENT FROM BY-PASSING
- MAINTENANCE SHALL BE PERFORMED AS NEEDED AND SEDIMENT REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE AND PROPERLY DISPOSED OF
- PLACE THE ENDS OF THE SILT FENCE UP CONTOUR TO PROVIDE FOR SEDIMENT STORAGE
- SILT FENCES SHALL BE REMOVED WHEN NO LONGER NEEDED AND THE SEDIMENT COLLECTED SHALL BE DISPOSED AS DIRECTED BY THE ENGINEER. THE AREA DISTURBED BY THE REMOVAL SHALL BE SMOOTHED AND RE-VEGETATED

H
E-1 SEEDING RATES

MIXTURE	POUNDS PER ACRE	POUNDS PER 1,000 SQ.FT.
RECOMMENDED		
A. TALL FESCUE	20	0.45
CREEPING RED FESCUE	20	0.45
REDTOP	2	0.05
TOTAL	40	0.95
B. TALL FESCUE	15	0.35
CREEPING RED FESCUE	10	0.25
CROWN VETCH	15	0.35
OR		
FLATPEA	30	0.75
TOTAL	40 OR 55	0.95 OR 1.35
C. TALL FESCUE	20	0.45
CREEPING RED FESCUE	20	0.45
BIRDSFOOT TREFLOIL	8	0.20
TOTAL	48	1.10
D. BIRDSFOOT TREFLOIL	10	0.25
REDTOP	5	0.10
RED CANARYGRASS	15	0.35
TOTAL	30	0.70
E. TALL FESCUE	20	0.45
FLATPEA	30	0.75
TOTAL	50	1.20
F. CREEPING RED FESCUE 1/	50	1.15
KENTUCKY BLUEGRASS 1/2	50	1.15
TOTAL	100	2.30
G. TALL FESCUE 1	150	3.60

1/ FOR HEAVY USE ATHLETIC FIELDS CONSULT THE UNIVERSITY OF NEW HAMPSHIRE COOPERATIVE EXTENSION TURF SPECIALIST FOR CURRENT VARIETIES AND SEEDING RATES.

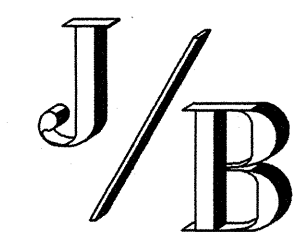
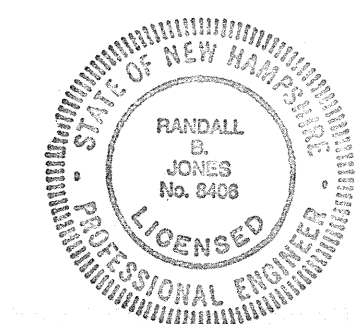
MAP 7, LOT 4 & 4A
NH RTE 27, RAYMOND, N.H.

EROSION & SEDIMENT CONTROL DETAILS
SEVERINO TRUCKING CO., INC.
SAND & GRAVEL PIT EXCAVATION

JONES & BEACH ENGINEERS, INC.
85 PORTSMOUTH AVENUE
STRATHAM, N.H. 03885
PHONE 772-4746 FAX 772-0227

DRAWING NO.
E1




SCALE : AS INDICATED DATE : 11/25/97 FILE : C:\SEVERINO REV. : 0 SHEET NO. : 6 OF 6



APPROVED BY THE RAYMOND PLANNING BOARD
ON _____
CERTIFIED BY: _____

TAX MAP 7, LOT 9
PAUL F. & MARGARET EDWARDS
PO BOX 478
RAYMOND, NH 03077
BK: 2027 PG: 219

TAX MAP 8, LOT 33
LEISURE VILLAGE ESTATES
15 NORTH STREET
MANCHESTER, NH 03104
BK: 2691 PG: 2609

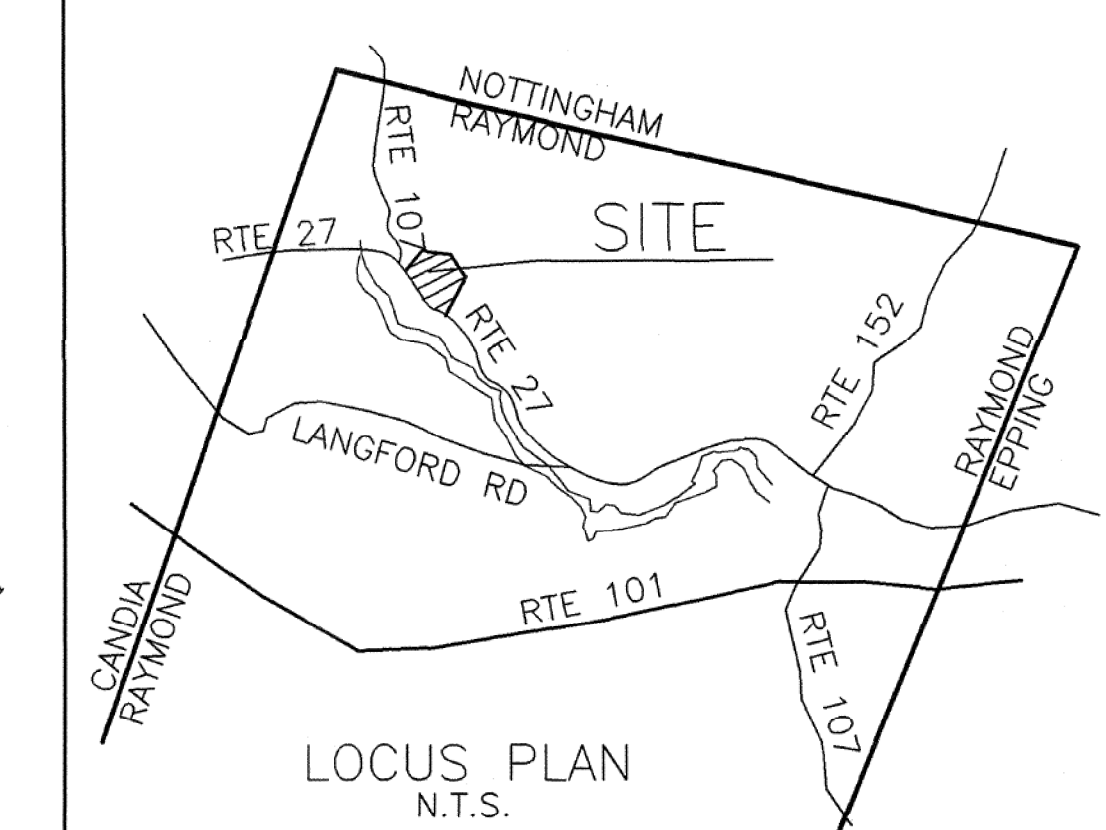
LEGEND
 DIRECTION OF GROUND WATER FLOW
 205 GROUND WATER CONTOURS 4/20/2023
 220 EXISTING CONTOURS 5/22/2023

NOTES:
 1. CURRENT CONDITIONS SHOWN IN GREEN AND ORANGE, OVERLAID UPON APPROVED EXCAVATION PLAN BY JONES AND BEACH ENGINEERS MAY OF 1998.
 2. PLAN PRODUCED BY SEVERINO TRUCKING CO., INC.
 4. ZONING: LOT IS SPLIT BETWEEN COMMERCIAL (C1) AND RESIDENTIAL/AGRICULTURAL (B).
 5. NO BLASTING IS TO BE DONE ON PROJECT.
 6. DUST CONTROL WHEN REQUIRED, SHALL BE PERFORMED BY USE OF A WATER TRUCK.
 7. NO ONSITE FUELING OF EQUIPMENT AND TRUCKS.
 9. NO BUILDINGS, STRUCTURES OR SEPTIC SYSTEMS EXIST WITHIN 200 FEET OF SITE BOUNDARY.

TAX MAP 7, LOT 4B
IVY VERGOS, & GEORGE & EVELYN BAKER
8 HILLCREST DRIVE
ROCHESTER, NH 03867

OPERATION NOTES:

- PROPOSED EXCAVATION LOCATED WITHIN A STRATIFIED-DRIFT AQUIFER AS SHOWN ON MAPS WITHIN USGS OPEN-FILE REPORT 92-95 STRATIFIED-DRIFT AQUIFERS IN THE EXETER, LAMPREY, AND OYSTER RIVER BASINS. (SEE WELL #6)
- AREA OF PROPOSED EXCAVATION: 13.27 ACRES, 578,000 SQUARE FEET
- VOLUME OF MATERIAL: 220,000 CUBIC YARDS
- PROJECT DURATION: ~~2~~ YEARS 20 Years
- ESTIMATED SEASONAL HIGH WATER TABLE DETERMINED TO BE AT ELEVATION 198' AT TEST HOLE #1. PROPOSED EXCAVATION IS A MINIMUM OF 13 FEET ABOVE ESHWT.
- TRUCK TRAFFIC:
 A. TRIPS PER DAY: 100 LOADS PER DAY MAX.
 B. TYPE OF VEHICLES: 1-15 TRUCKS PER DAY
 C. WEIGHT LIMITS: 10 WHEELERS - 65,000 LBS.
 TRAILER DUMP BODIES - 100,000 LBS.
 TRI-AXLE - 72,000 LBS.
- HOURS OF OPERATION: WAIVER GRANTED JUNE 4, 1998.
 MACHINERY: 7:00AM - 5:00PM
 MATERIAL REMOVAL: 7:00AM - 5:00PM
 SATURDAY: 7:00AM - 12:00 (NOON)
- PERIMETER OF THE PIT SHALL BE SUITABLY POSTED WITH SIGNS AT A MAXIMUM 100 FOOT INTERVAL, NOTIFYING TRESPASSERS OF POTENTIAL DANGER.
- THE PROPOSED MINIMUM DISTANCE FROM EXCAVATION TO A SIDE PROPERTY LINE IS 67 FEET. THE PROPOSED MINIMUM DISTANCE FROM EXCAVATION TO A FRONT RIGHT-OF-WAY LINE IS 50 FEET.
- SITE SPECIFIC PERMIT #WPS-5001, JANUARY 28, 1998. AMENDED MARCH 9, 2010
- TRUCKS WILL NOT QUE ONTO ROUTE 27 AND ARE NOT ALLOWED TO BACK ONTO THE HIGHWAY. TRUCKS ARE ALSO PROHIBITED FROM BACKING FROM ROUTE 27 ONTO THE SITE.
- MONITORING WELLS INSTALLED 4/6/2023





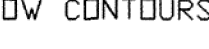
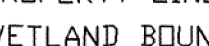
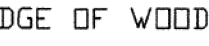
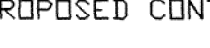

Monitoring Well 1
 N: 204151.911 ft
 E: 1103729.107 ft
 Top of Well: 224.202 ft
 Grd Elev: 221.502 ft
 Grd Water Elv: 205.71

Monitoring Well 3
 N: 204134.567 ft
 E: 1104141.318 ft
 Top of Well: 230.804 ft
 Grd Elev: 228.104 ft
 Grd Water Elv: 207.14

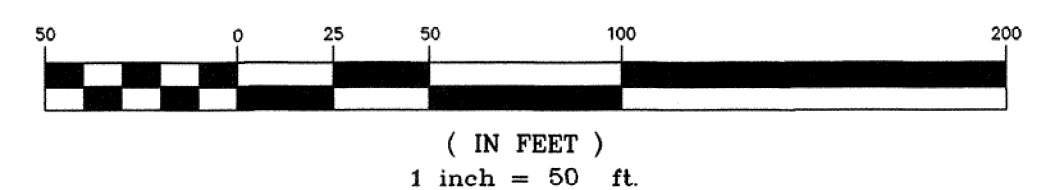
Monitoring Well 2
 N: 203583.611 ft
 E: 1103986.350 ft
 Top of Well: 234.000 ft
 Grd Elev: 231.000 ft
 Grd Water Elv: 204.95
 LIMIT OF EXCAVATION (TYP)

Monitoring Well 4
 N: 203697.669 ft
 E: 1103570.662 ft
 Top of Well: 228.635 ft
 Grd Elev: 225.935 ft
 Grd Water Elv: 204.89

LEGEND

-  TEST PITS
-  HIGH CONTOURS
-  LOW CONTOURS
-  PROPERTY LINES
-  WETLAND BOUNDARIES
-  EDGE OF WOODS/TREE LINE
-  216 PROPOSED CONTOURS

GRAPHIC SCALE



OWNER OF RECORD
 BRANCH BROOK HOLDINGS, LLC.
 PO BOX 202
 CANDIA, N.H.
 BOOK 3919 - PAGE 1313

OPERATOR
 SEVERINO TRUCKING CO., INC.
 RONALD A. SEVERINO, PRESIDENT
 PO BOX 202
 CANDIA N.H.
 PHONE (603)483-2133
 FAX (603)483-2998

TOTAL AREA
 22.37 AC

PROPOSED EXCAVATION
 13.2 AC

REVISED: 5/23/2023

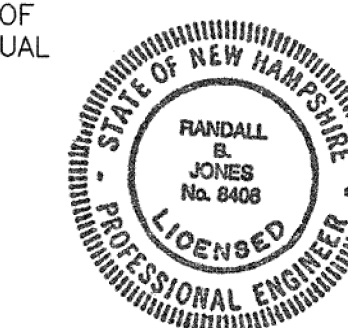
MAP 7 LOTS 4 & 4A
 NH RTE 27, RAYMOND, N.H.

SEVERINO TRUCKING CO., INC.
 PROPOSED EXCAVATION PLAN
 NH RTE 27, RAYMOND, N.H.

JONES & BEACH ENGINEERS, INC.
 85 PORTSMOUTH AVENUE
 STRATHAM, N.H. 03885
 PHONE 772-4746 FAX 772-0227

DRAWING NO.
IC1

SCALE: 1" = 50' DATE: 11/25/97 FILE: SEVERINO REV. SHEET NO. -- OF --



2036

1 Planning Board Minutes
2 May 25 2023 @ 8:20 PM
3 Media Center Raymond High School
4 45 Harriman Hill Road, Raymond, NH 03077
5

6 Planning Board Members Present:

7 Patricia Bridgeo

8 Jim McLeod

9 Gretchen Gott

10 Dee Luszcz

11 Bob McDonald

12 Dave Rice

13

14 Planning Board Members Absent:

15

16

17 Staff Present:

18 None

19

20 **Pledge of Allegiance:** Recited by all in attendance.

21

22 **Meeting called to order:**

23 The meeting started at approximately 8:20 pm.

24

25 **Work Session:**

26

27 Mrs. Luszcz said that on all site plan and subdivision regulations she would like to see
28 the application and project name on all communications, documents, and pages as a
29 footnote with the page number of total number of pages. Obviously the Master Plan has
30 to be way up on the list of things that need to be done.

31

32 Ms. Bridgeo said she has asked for hard copies of all the documents and she still
33 doesn't have some of these.

34

35 Mr. McLeod suggested that all of the members of the Board get new binders.

36

37 Mrs. Luszcz said that the TRC's rules and procedures have to be a top priority because
38 it plays a major role in most of the applications that come before the Board.

39

40 Ms. Gott suggested having a joint meeting with TRC in a work session.

41

42 Mr. McLeod said there should be a preamble that is added to the TRC rules and
43 procedure where they read off a statement at the opening of all of their meetings that
44 clarifies what their role is and what the applicant can expect from the TRC, including the
45 fact that the TRC is not a judiciary Board. That it is only an advisory Board. Mr. McLeod
46 said he would write a preamble for the TRC rules and procedures.

47 Ms. Bridgeo said she would look into the scope and process of what we would expect
48 them to be doing.

49
50 Mrs. Luszczyk said she would table the whole master plan discussion until Maddie gets
51 back.

52
53 Mr. McLeod discussed the earth excavation regulations he said there is a big gap and
54 what it is, is that that if you're an excavation site, which means that you're there is
55 commercial taking of material off a site that you need to have that in place to get your
56 blasting permit. But if you have an incidental excavation, then you don't need an
57 excavation permit to get your blasting permit. And I think that that is an oversight that
58 needs to be filled in I believe, and this is what I want to poll the board. If you agree with
59 me is that we should update our Earth excavation regulations. So that if there is any
60 blasting that you are required to get an excavation permit before any blasting, whether
61 it's incidental or not ancillary.

62
63 Ms. Gott asked are we legally allowed to require if it's an ancillary use?

64
65 Mr. McLeod said they would vet it through legal.

66 Mr. McLeod asked if the Board agreed he would work on that to make sure it is ironclad
67 before it goes to legal.

68
69 Ms. Gott did say that they should explore it and the Board seemed to concur with a nod
70 of heads.

71
72 Mrs. Luszczyk discussed the waiver application form and improvements that could be
73 made to the form including a signature and date line.

74
75 **Public Comment:**

76
77 Kathy McDonald suggested having a date stamp when the application comes in.

78
79 **Work session continued:**

80
81 Mrs. Luszczyk stated that a video of the meetings is to be preserved for 5 years but that
82 RCTV has stated that they only keep the videos for 1 year and they are under no
83 obligation to keep them. I know we have a budget for the planning board. With your
84 approval, I'd like to entertain some direction into finding a provider that could download
85 all of our meetings and put them on a server so that we do have them for historical
86 purposes. And I don't know the ins and outs of that, but what are your thoughts. Select
87 Board already approved it, and Mrs. Luszczyk is not in favor of a thumb drive. Mrs. Luszczyk
88 thinks that the Board should use some of the budget to preserve the videos for the 5
89 years as voted on. It is not getting done so they should do it themselves. Mrs. Luszczyk
90 said she would like to hire an outside person to do it. Somebody who does this for a
91 living that will sit there, and they'll take the download it when it's posted onto our website
92 and put it on a different server that then the town can just put the link and people can I

93 want everyone to be able to see it for the full five years. It shouldn't be in somebody's
94 possession. And it shouldn't be on a disk or a thumb drive. It should be somewhere
95 where it is backed up and everybody has access to it. That's the direction I'm going in
96 anyway.

97
98 Mr. McDonald said they should look at the site plan regulations and in their next work
99 session come back with any issues they have.

100
101 A suggestion was made about signing drawing that the act of signing the drawing will be
102 on the agenda and the COA's will be in the packets.

103
104 Mr. McDonald asked one of the one of the other questions that I have is whose
105 responsibility is it to get the mylar once it's signed? Recorded? And how do we know? Is
106 there anything like in looking at the rules, it seems to be silent on that on once a plan is
107 signed in his had been approved by the board and it meets all the criteria, but it never
108 gets recorded. Where I think we should look at the rule on that as well, to make sure
109 that who is going to do that recording, and it wasn't recorded. I think that's an important
110 step that I've personally checked on projects. Over the years that haven't been
111 recorded.

112
113 Ms. Gott said then is not officially done.

114
115 Mr. McLeod said so in concert with that was that the building inspector was before the
116 board last year and said that they would like a separate copy of those conditions of
117 approval. So that he didn't have to refer to the original drawing when he's going on site
118 to see if they're following the conditions. So that should probably be part of that process.

119
120 Mrs. Luszczyk would like to see the conditions of approval that were voted on in the next
121 packet as a review document.

122
123 Mr. McLeod suggested having a sheet of paper for the building inspector that serves
124 that purpose and the next week vote to send it to the building inspector if it is correct.
125 What I would suggest is that once that is approved, that that can be added to our
126 agenda in that format. So now that we've approved it, that's the format to add to our
127 agenda where we check off whether it's been completed or not. And then once all of the
128 ones for a particular project had been completed then that could disappear so that way,
129 every other problem Look also has a running tally of where these projects are in
130 compliance.

131
132 Ms. Gott agreed to work on subdivision regulations and Mr. Rice said he would start
133 doing some research on how wide driveways have to be under subdivisions.

134
135 Mrs. Luszczyk said she would come back with a rewrite on that and just point out that
136 1.200 meeting date, time and place doesn't accurately depict how we meet because we
137 don't meet every Thursday. And she thinks they should specify the holidays that were
138 closed.

139 **Approval of Minutes:**

140

141 **May 4, 2023**

142

143 Ms. Bridgeo requested that timestamp 2:15:00 to 2:20:20 be added to the May 4, 2023,
144 minutes verbatim.

145

146 **Motion:**

147 **Ms. Bridgeo made a motion to table the minutes of May 4, 2023, until the**
148 **Board has the added language verbatim.**

149 **Mr. Rice seconded the motion.**

150 **The motion passed unanimously with a vote of 6 in favor, 0 opposed and 0**
151 **abstentions.**

152

153 **May 11, 2023**

154

155 Ms. Gott requested on page 3 on line 97 that the word 'what' be added.

156

157 Also, on page 8 line 262 Ms. Gott requested that the word 'be' to be added.

158

159 On page 11 lines 361 to 363 Ms. Gott said that Sunday morning is not a normal time to
160 have committee meetings. And specifically said that the location needs to be in a public
161 place such as the school. Ms. Gott specifically said it needs to be in a public place.
162 Even though you said it was open to the public. It needs to be in a public place such as
163 a school that's accessible to all.

164

165 Mr. McLeod said it was an incorrect statement.

166

167 Ms. Gott would like the statement included int the minutes.

168

169 Ms. Bridgeo requested that the statement be checked against the actual meeting and
170 included verbatim.

171

172 Mr. McLeod wanted an email received from NH Municipal Association included to show
173 that it is perfectly acceptable to have a meeting outside of public building and a school
174 to be attached to the May 11, 2023, minutes.

175

176 Ms. Bridgeo requested that on page 5 line 175 Eric Poulin be identified as ONYX.

177

178 **Motion:**

179 **Ms. Bridgeo made a motion to table the minutes of May 11, 2023, until the**
180 **Board has the added language verbatim and the adjustments for the**
181 **applicants listed prior to their public hearing.**

182 **Mr. McLeod seconded the motion.**

183 **The motion passed unanimously with a vote of 6 in favor, 0 opposed and 0**
184 **abstentions.**

185 **Board Updates:**

186

187 Ms. Gott requested a date to schedule Ethics Training for all.

188

189 Mr. McLeod said he disagreed with Ms. Gott about the need for all members to attend
190 the training. That the code says it must be made *available* to all.

191

192 Mrs. Luszczyk said she would table the discussion until they get legal advice.

193

194 Mrs. Luszczyk thanked everyone that came out to the Town Meeting on Monday night.

195

196 Ms. Bridgeo asked how to better communication to Cons Com and vice versa.

197

198 **Motion:**

199 **Mr. McLeod made a motion to vote to send him as a representative to Cons**
200 **Com and make a list of what they need from the Planning Board, so the**
201 **applicants know what they have to give them and when.**

202 **Ms. Bridgeo seconded the motion.**

203

204 **Discussion:**

205 **Mr. McLeod said he thinks we need to coordinate a little bit with the**
206 **committee, and then bring it back to the board so that everybody knows**
207 **what we discussed, and we can adjudicate it from there.**

208

209 **The motion passed unanimously with a vote of 6 in favor, 0 opposed and 0**
210 **abstentions.**

211

212 **Adjournment:**

213

214 **Motion:**

215 **Mr. McLeod made a motion to adjourn the meeting.**

216 **Mr. Rice seconded the motion.**

217 **The motion passed unanimously with a vote of 6 in favor, 0 opposed and 0**
218 **abstentions.**

219

220 Chair Luszczyk adjourned the meeting at approximate 9:48 pm.

221

222 The video of this meeting is to be preserved as part of the permanent and official
223 record.

224

225 Respectfully submitted,

226

227 Jill A. Vadeboncoeur

228

229

230