2024 Annual Vegetation and Wetland Monitoring Report
Saranac Lake Gas Company, Inc.
NYSDEC Site 516008
Saranac Lake, Essex County, New York

Work Assignment No. D009806-34

Prepared for

New York State Department of Environmental Conservation
Division of Environmental Remediation
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Albany, New York 12233-7017

Prepared by

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September 2024

Revision: FINAL
EA Project No. 1602534

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LIST OF ACRONYMS AND ABBREVIATIONS

%	Percent
EA	EA Engineering, P.C. and its Affiliate EA Science and Technology
FAC	Facultative
No.	Number
NWP	Nationwide Permit
NYSDEC	New York State Department of Environmental Conservation
OU	Operable unit
USACE	U.S. Army Corps of Engineers

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1. INTRODUCTION

EA Engineering, P.C. and its affiliate EA Science and Technology (EA) was retained by the New York State Department of Environmental Conservation (NYSDEC) to perform annual vegetation and wetland monitoring associated with the remediation work conducted at the Saranac Lake Gas Company (Co.), Inc. Site (NYSDEC Site Number [No.] 516008) in the Village of Saranac Lake, Essex County, New York (Figure 1). Site design, regulatory authorization, and the first 2 years of annual reporting were completed by others and EA was retained by NYSDEC to monitor the site annually starting in April 2023. The following description of the project is based upon information presented in previous monitoring reports.

The NYSDEC has completed remediation at the site associated with Permit Application No. NAN-2017-0040-UDE, which included the condition to restore 1,360 linear feet of existing stream channel, 0.58 acres of riparian emergent and scrub shrub wetland, 0.09 acres of upland riparian area and stream bank, 71,650 square feet of Pontiac Bay, and 175 feet of shoreline.

The purpose of this report is to fulfill the requirements of the U.S. Army Corps of Engineers (USACE) authorization to complete remediation and restoration activities within jurisdictional areas under the USACE Nationwide Permit (NWP) 38 in which an annual monitoring report is required to describe the conditions of the restored wetlands and riparian areas for a period of 5 years to ensure that permit conditions and restoration objectives are being met at the conclusion of the 5-year monitoring period.

EA has been tasked with conducting the annual vegetation and wetland monitoring of the restored areas as detailed in the approved design plans (Appendix A). This report presents a summary of the 2024 annual monitoring activity conducted to ensure the long-term success of the restored wetland, stream and riparian areas conducted as part of the remedial action. Since the project site operable units (OUs) were restored during different years, the 5-year monitoring period for each OU is slightly different as described in Table 1.

Table 1. Current Monitoring Status of Each OU

OU	Common Name	Monitoring Subset Area	Date of Restoration	Monitoring Year (1-5)
OU1	Wetland Areas	WP-1	June 2022	2
		WP-2		
OU2	Brandy Brook Area	BB-1	June 2019	4
		BB-2		
OU3	Lake Flower Area	LF-1	June 2019	4
		LF-2		
		LF-3		
		Cedar Area		

1.1 GOALS AND OBJECTIVES

Annual monitoring of the restored wetland areas, stream channel, and riparian areas is required to be conducted to meet the conditions of the authorization received from USACE to perform the remediation under NWP 38. The annual monitoring must be conducted to ensure the permittee

successfully restored 1,360 linear feet of Brandy Brook, 0.58 acres of riparian emergent and scrub shrub wetland, 0.09 acres of upland riparian area and stream bank, 71,650 square feet of Pontiac Bay, and 175 feet of shoreline.

Per the Special Conditions of NWP 38, the following criteria shall be met for successful restoration of the site:

- Ensure that all proposed wetland, upland, and stream restoration plantings have an 85 percent (%) survival rate.
- Ensure that the newly established planting areas do not consist of more than a total of 5% areal coverage of invasive species.
- Ensure that no mowing of the restoration areas has occurred.
- Complete wetland data sheets within restored wetland areas to document wetland characteristics including wetland hydrology exists with the wetland areas.

In order to determine if these goals and objectives are being met within the restored areas, the annual monitoring for this year's effort as well as future efforts will be conducted annually following the methods provided in this report for a period of 5 years. At the end of the 5th monitoring year, EA will include a discussion in the annual monitoring report to identify if additional monitoring should be conducted after the 5th year and make recommendations for monitoring to be terminated if the conditions are acceptable to the regulatory agencies.

2. METHODS

To satisfy both USACE and NYSDEC monitoring requirements, the restoration monitoring efforts include the collection of specific data for reporting, including the requirements below, which are described in more detail in the sections that follow:

- Wetland, Riparian, and Upland Vegetation Monitoring
- Documentation of Erosion and Signs of Instability Along Brandy Brook and the Banks of Lake Flower
- Hydrology Monitoring within Restored Wetland Areas
- Development of Anaerobic Soil Conditions with Wetland Areas

For the annual monitoring, the project site was separated into three sections, consisting of the banks of Lake Flower, Brandy Brook, and the two restored wetland areas. These sections were separated based on the monitoring methods utilized to document the site conditions and are depicted on Figures 2 through 4 (Appendix B).

During an on-site discussion with NYSDEC staff during the previous 2023 monitoring event, it was requested to break the monitoring area into distinct areas based on existing on-site conditions to provide recommendations relevant to specific areas, rather than broad general recommendations. Therefore, a total of 8 distinct monitoring areas were established on-site in 2023, as depicted on Figures 2 through 4, and described in greater detail in the following sections. These 8 distinct monitoring areas were established during the 2023 monitoring effort and assessed again during the 2024 monitoring event. Wetland monitoring areas and key observations were located with a global positioning system in the field for repeat monitoring and are depicted on the figures in Appendix B. Location and directions of on-site photographs are depicted on Figures 5 and 6 (Appendix B) and on-site photographs are provided in Appendix D.

2.1 LAKE FLOWER

The banks of Lake Flower were monitored to determine the successful restoration of the vegetation along the banks and note areas of erosion and instability. The Lake Flower Restoration Section was separated into four distinct monitoring areas (Figure 2). These four monitoring locations consisted of three sections of shoreline on the northern banks of Lake Flower (LF-1, LF-2, and LF-3) and one are of Cedar plantings on the southern bank of Lake Flower. Within the Lake Flower Monitoring Areas, EA conducted a visual survey of the planted material and conducted an estimate of survivability based on counting live and dead woody stems along the shoreline, as well as estimating percent cover of native vegetation and percent cover of invasive species. General observations on restoration success and areas of concern, such as erosion and instability, were also documented within each monitoring area.

2.2 BRANDY BROOK

The stream channel identified as Brandy Brook was monitored to determine the successful restoration of the stream which included the successful establishment of riparian vegetation along the banks and identification of any areas of erosion and instability within the channel. Brandy Brook Restoration Section was separated into two distinct monitoring areas (Figures 3 and 4). These two monitoring areas included the northern portion of Brandy Brook (BB-1) located between Slater Avenue and Pine Street and the southern portion of Brandy Brook (BB-2) located between Brandy Brook Avenue and Wetland Area 2. Within the Brandy Brook Monitoring Areas, EA conducted a visual survey of the restored stream banks to document the percent vegetation cover along the banks and identify areas of bare earth lacking vegetation, as well as estimating percent cover of invasive species. General observations on restoration success and areas of concern, such as erosion and instability, were also documented within Brandy Brook.

2.3 WETLAND AREAS

Two wetland areas were restored as part of the remediation effort and are both located along the southern portion of the project site at the upstream end of Brandy Brook (Figure 4). These two wetlands were monitored to determine the successful restoration of the vegetation within the wetlands as well as ensuring wetland characteristics, such as wetland hydrology and hydric soils, are developing. The northern wetland monitoring area (Wet-1) consists of an emergent wetland which was seeded with an emergent wetland mix, and the southern wetland monitoring area (Wet-2) consists of a newly planted forested wetland. Within the two wetland areas, EA completed formal wetland data sheets (Appendix C) to ensure all three wetland criteria are present and the two areas meet the requirements of a wetland. In addition to the formal wetland data plot, EA also conducted a meander search throughout the two wetlands to estimate coverage of invasive species and estimate total plant cover throughout the wetlands. Within the newly planted Wet-2 area, EA also conducted an estimate of survivability based on counting live and dead woody stems. General observations on restoration success and areas of concern, such as erosion and instability, were also documented within each wetland area.

A formal wetland delineation data form for the Northcentral and Northeast Region was completed within each wetland area to document the vegetation species, wetland hydrology indicators, and hydric soil conditions within each wetland monitoring area. Field personnel collected soil to a depth of approximately 18 inches or until refusal was encountered to observe soil conditions and classify the soil as either hydric or non-hydric.

Wetland hydrology supplies the moisture required to support wetland vegetation and creates the conditions necessary for the formation of hydric soils. Primary indicators of wetland hydrology include, but are not limited to, observed inundation or saturation, watermarks, drift deposits, sediment deposits, aquatic fauna, oxidized rhizospheres on living roots, and water-stained leaves. Secondary indicators of wetland hydrology include, but are not limited to, drainage patterns, dry season water table, crayfish burrows, and the Facultative (FAC)-Neutral Test. The FAC-Neutral Test involves comparing the number of obligate and facultative wetland plant species to the number of facultative upland and upland plant species, with FAC species being neutral. If 50% or more of the plant species are obligate or facultative wetland, the FAC-Neutral Test is met. Meeting

the FAC-Neutral Test is considered a secondary indicator of wetland hydrology. An area must contain at least one primary indicator or two secondary indicators of wetland hydrology for the parameter of wetland hydrology to be met.

Hydric soils are soils that are saturated, ponded, or flooded long enough during the growing season to develop anaerobic conditions in the upper portion of the soil column (typically within the upper 18 inches). The prolonged presence of water results in the chemical reduction of elements, particularly iron and manganese. Reduced soils often exhibit a gray (or "gleyed") color that reflects either the leaching of elements or the presence of reduced elements (again, generally iron and manganese).

Hydric soils are often characterized by bright mottles, sometimes called redoxymorphic features. Mottles are an indication of incomplete saturation. They typically represent isolated pockets where elements (mainly iron) have remained oxidized. Another feature of hydric soils is a low matrix chroma in the diagnostic zone, which is typically identified as the upper 18 inches of the soil layer but may vary. For mineral hydric soils, the diagnostic zone typically must have a matrix chroma of two or less for soils with mottles, or a matrix chroma of one or less for soils without mottles. To make this determination, soil cores are collected in the field in suspected wetland areas, and the soil colors are compared to a Munsell Soil Color Chart. Other examples of field indicators for hydric soils include, but are not limited to, high organic content, histic epipedons, and concretions.

Since hydric soils indicators in newly created or recently disturbed wetlands can be difficult to observe, the hydric soils assessment was supplemented with the use of alpha, alpha-dipyridyl test strips to determine the presence of ferrous iron in the soil. These test strips are placed on the face of a soil sample and soaked with water. If ferrous iron is present in the soil sample, the test strips turn reddish pink. Within each wetland plot, a soil sample was collected, and test strips were placed on the soil sample in 4-inch increments from a depth of 0 inches down to 16 inches.

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3. RESULTS

Annual monitoring was performed on 24 June 2024, which included general observations of wetland hydrology and soils as well as vegetation assessments within the restored wetlands, stream banks, and riparian areas.

3.1 LAKE FLOWER

The Lake Flower section of the project site included the riparian banks of the lake and monitoring included documenting the survivability of planted woody stems along the banks, as well as percent native vegetation cover and percent invasive coverage. A total of four monitoring areas were established during the 2023 annual monitoring event, as depicted on Figure 2, and were evaluated again during the current monitoring event. Based on the data collected during the 2024 monitoring event, monitoring area LF-2, LF-3, and the Cedar Area had a survivability of 95% and above of the woody stems counted in 2023. During the 2023 and 2024 monitoring efforts, no woody stems were observed within area LF-1. Furthermore, the woody stem counts in both LF-2 and LF-3 have increased from 2023, due to the natural establishment of woody vegetation, including the establishment of American elm (*Ulmus americana*), black willow (*Salix nigra*), and gray alder (*Alnus incana*). A total of 43 new woody stems were identified during the 2024 monitoring effort. All four monitoring areas within the Lake Flower area had a percent native cover of 90% or above and an invasive cover of 5% or less. Additionally, wildlife browsing was also observed on numerous woody stems within LF-2 and LF-3 including beaver activity on larger mature trees along the top of the banks.

One hundred (100) % of the cedar trees planted during the initial restoration effort have survived in the Cedar area and appear to be healthy with no obvious sign of disease or decay.

Table 2. 2024 Lake Flower Monitoring Results

Area No.	2023 No. of Live Woody Stems	2024 No. of Live Woody Stems	Survivability 2023 → 2024	No. of Woody Stems Naturally Established	% Native Cover	% Invasive Cover
LF-1	0	0	--	0	100%	0%
LF-2	10	10	100%	8*	90%	0%
LF-3	59	59	100%	50*	95%	5%
Cedar Area	34	34	100%	0	90%	0%
Total	**103**	**103**	**100.0%**	**58***	**93.75%**	**1.25%**

Notes:
* Natural establishment of native woody stems from non-planted material does not include dense patches of bayberry which form dense clusters of 50-100 stems, observed throughout LF-2 and LF-3.

No signs of bank erosion or instability were observed within the Lake Flower section of the project site.

3.2 BRANDY BROOK

The Brandy Brook section of the project site included the restored stream channel riparian banks of the lake and monitoring included documenting any signs of erosion or instability along the banks or within the stream channel and at constructed restoration structures, as well as estimating percent native vegetation cover, and percent invasive coverage throughout the riparian areas adjacent to the stream channel. The Brandy Brook section of the project site is separated into two monitoring areas which were established during the 2023 annual monitoring event as depicted on Figures 3 and 4 and were evaluated during this monitoring event. Based on the data collected during this monitoring, the riparian areas adjacent to the stream channel in both BB-1 and BB-2 are currently exceeding the success criteria for vegetation cover (85% coverage) and have an invasive species cover below 5% (Table 3). Sections of riprap placed upstream and downstream of multiple culverts within both BB-1 and BB-2 contribute to the vegetation cover being below 100%. The core fabric logs placed along the bottom of the stream banks have become fairly vegetated throughout the length of BB-1 and BB-2 and the logs are mostly not identifiable due to the large amount of vegetation growing along the stream edge.

Table 3. Brandy Brook Monitoring Results

Area No.	% Native Cover	% Invasive Cover	Observations / Areas of Concern
BB-1	90%	1%	The area directly east of Slater Avenue has limited vegetation cover along the bottom of the bank along the core fiber log. Live stakes may be suitable in this area.
BB-2	95%	1%	Rip-rap slope at corner of Pine Street and Brandy Brook Avenue appears to receive significant street runoff and should be monitored closely. The concrete headwall and box culvert between BB1 and BB-2 has signs of scour and should be closely monitored in future events. Areas of previously identified invasive species (Japanese knotweed) have been treated successfully.
Total	**92.5%**	**1%**	

During the monitoring effort, EA personnel did not observe areas of stream bank erosion or signs of stream instability along the channel. In 2023 an area of concern at the historic concrete box culvert was identified, showing signs of scour under the concrete headwall. The existing fabric log was re-staked in this location in 2023 and the log has begun to become well vegetated, with no additional signs of erosion were observed in 2024. Additionally, in 2023 NYSDEC noted concern over the potential of future erosion along the rip-rap slope at the corner of Pine Street and Brandy Brook Avenue, since this location appears to receive significant runoff from the roads. However, during the 2024 monitoring effort this area was reviewed with NYDEC staff and no signs of erosion or rip-rap instability were noted during the 2024 monitoring event. The top of the slope has become more vegetated and no evidence of rip-rap movement down the bank was identified. The stream channel appears to be well connected to the wetlands and floodplain, and photographic documentation of the current channel conditions is provided in Appendix C. Established stream photograph locations are provided on Figures 5 and 6 (Appendix B). All in-stream structures and

habitat features that are on the design drawings were visually observed during the monitoring event and are in place and appear to be properly functioning per the design plans.

In 2023 two areas of Japanese knotweed were identified and have been treated since the initial planting efforts. The area of previously identified knotweed at the corner of Pine Street and Brandy Brook Avenue has been fully removed and the area along the bike trail has been treated effectively with only two small stems of knotweed re-propagating. Although the previously identified Japanese knotweed areas have been treated and are below the 5% cover threshold, the areas of previously identified Japanese knotweed should continue to be monitored and treated as identified.

One new area was identified for the presence of Japanese knotweed within BB-1 at one of the driveway crossings along Brandy Brook Road (Figure 3). This area should be treated for Japanese knotweed to ensure no further spread of this species along the banks of the stream channel.

3.3 WETLAND AREAS

The restored wetland areas of the project site included one emergent wetland and one forested/shrub wetland. The monitoring for these two wetlands included documenting the survivability of planted woody stems within Wet-2 only, as well as percent native vegetation cover, percent invasive coverage in both wetlands, documenting the presence of hydric soils, wetland hydrology, and noting any additional issues or concerns with the successful restoration of these areas back to wetlands. A total of two monitoring areas were established during the 2023 annual monitoring event (Figure 4) and were evaluated during this monitoring event. Based on the data collected during this monitoring event, both wetlands are achieving the success criteria for survivability, vegetation cover, and invasive cover; as well as the presence of hydric soils and wetland hydrology (Table 4).

Table 4. Wetland Areas Monitoring Results

Area No.	2023 No. of Live Trees	2023 Survivability	2024 No. of Live Trees	2024 Survivability	% Native Cover	% Invasive Cover	Hydric Soils	Wetland Hydrology
Wet-1	NA	NA	NA	NA	100%	0%	Yes	Yes
Wet-2	76*	95%	74*	92.5%	95%	0%	Yes	Yes
Total	**76**	**95%**	**74**	**92.5%**	**97.5%**	**0%**	-	-

Notes:
*2 trees have died between the 2023 and 2024 monitoring efforts
NA = Not applicable/available

The original planting count as indicated in the Annual Monitoring Report - Year 2 (2022); Wet-2 included 95 woody stems (24 white pine, 23 red maple, 23 birch, and 25 dogwood). However, in April 2023, it was noted that 10 of the white pine were not successful and were replaced with more tolerant wetland species (*Acer* rubrum - red maple). During the 2023 monitoring event a total of 80 planted woody stems were observed within the wetland area (Wet-2) with 76 live stems and 4 dead stems, for a survivability of 95%. However, it appears some of these 95 trees were planted along the opposite bank of the stream channel along the riparian edge and therefore were not included in the wetland survivability calculations. It should be noted that 14 live large trees and

one dead white pine was observed on the opposite bank of the stream channel during the wetland monitoring effort for a survivability of 93% for the trees along the riparian edge. The native vegetation cover in Wet-2 has increased by 10% and the emergent wetland vegetation has shown vigorous growth of the last year. During the 2023 monitoring effort, recent disturbance and re-seeding was identified in this area which has been repaired and the re-seeding has been very effective.

Wetland hydrology indicators as well as hydric soils were identified throughout both wetlands. A formal USACE wetland data sheet was collected within each wetland area. At each data collection location, EA obtained a soil sample (14-18 inches deep) using a stainless-steel auger. The hydric soils indicator of a depleted matrix was observed within each wetland. Additionally, wetland hydrology including surface water, saturated soils, drainage patterns, passing of the FAC-Neutral Test, and presence of reduced iron were observed in both wetlands.

4. CONCLUSIONS / RECOMMENDATIONS

In general, the restored wetlands, stream channel, and riparian areas appear to be functioning as designed and invasive species are below the required 5%. The two wetland areas are meeting or exceeding the success criteria and the stream channel is stable and functioning as designed. All the areas along Lake Flower are meeting the native cover and invasive cover requirements for the project and woody stem survivability and natural establishment is high in all areas except LF-1.

Monitoring areas LF-1 currently does not have any woody stems along the bank and in 2023, many of the live stakes appear to have been planted along the lower portion of the banks below the water line. NYSDEC expressed concern over the lack of bank shading within these two monitoring areas, which should be planted with shrubs along the top of bank, along the riprap edge or additional small trees should be planted to provide shade along the shoreline. This recommendation was approved in the final 2023 monitoring report and should be planted before the end of the 2024 growing season. Table 5 provides a general planting recommendation for areas LF-1 and LF-2, which includes planting shrubs along the top of the rip-rap edge within LF-1 and along the banks of LF-2. The presence of large rock and rip-rap in these two areas along the banks would likely inhibit the placement of additional live stakes along the bank.

Table 5. Proposed Riparian Plantings

Scientific Name	Common Name	Size	Quantity
LF-1			
Cephalanthus occidentalis	Buttonbush	1 gallon	8
Betula nigra	River birch	5-7 gallon	4
Acer rubra	Red Maple	5-7 gallon	4
LF-2			
Cephalanthus occidentalis	Buttonbush	1 gallon	3
Betula nigra	River birch	5-7 gallon	3
Spiraea alba	White meadowsweet	1 gallon	3

All plants shall be sourced from stock grown within a 150-mile radius of the project site, acclimated to the climate of Upstate New York, and grown from naturally occurring ecotypes in the region. Substitutions to plant species, type, size, and origin may be made at the approval of NYSDEC based on species availability. Due to the observed deer browsing on vegetation along the Lake Flower shoreline, new plantings should include the addition of deer browsing tubes.

The rip-rap slope and box culvert located between BB-1 and BB-2 was initially an area of concern in 2023 and was recommended to be closely monitored during future monitoring events to ensure erosion or scour does not continue in this area. During the 2024 monitoring effort, no additional erosion or scour was identified in this area and the top of slope and bottom of the slope at the edge of the rip rap has become more densely vegetated and appears to be stable. Similarly, the 2023 re-planted area within Wet-2 has become very well established and no bare spots or tire rutting was observed in 2024.

Invasive species throughout the project site are sparse and under restoration goals. However, the two identified areas of Japanese knotweed should continue to be monitored, and continued

treatment is recommended for throughout 2024 to spot treat the areas of Japanese knotweed. If not continuously treated, this population can re-establish and exceed the 5% threshold rapidly, as Japanese knotweed is an aggressive, fast growing invasive species.

Appendix A

Design Drawings

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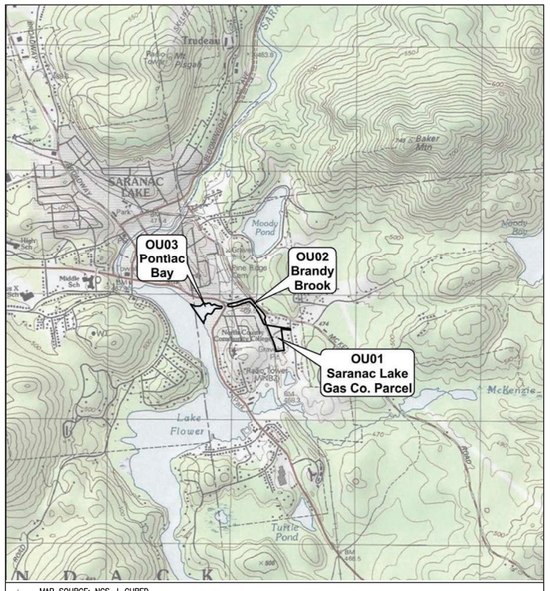
REMEDIAL ACTION RECORD
NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
SARANAC LAKE GAS CO., INC., SITE NO. 516008
OU02: BRANDY BROOK AND OU03 PONTIAC BAY ON LAKE FLOWER
SARANAC LAKE, NEW YORK
MARCH, 2020
CONTRACT NO. D010663



MAP SOURCE: NGS, I-CUBED

PROJECT SITE:
BRANDY BROOK AND SARANAC LAKE:
TOWN OF SARANAC LAKE SECTION SITE
RIVER STREET, ROUTE 86
SARANAC LAKE, NEW YORK

N

0 1000 2000 4000
SCALE IN FEET

LOCUS MAP

MAP SOURCE: AERIAL PHOTOGRAPH FROM HTTP://NYSGIS.STATE.NY.US

N

0 250 500 1000
SCALE IN FEET

KEY MAP

DRAWING INDEX

INCLUDED THIS SUBMITTAL	SHEET NUMBER	DRAWING TITLE	DISCIPLINE NUMBER
●	1	COVER SHEET	G-001
●	2	NOTES, LEGENDS, AND ABBREVIATIONS	G-002
●	3	BOTTOM OF EXCAVATION – OU02	C-201
●	4	BOTTOM OF EXCAVATION – OU02	C-202
●	5	PLAN AND BASELINE PROFILE – OU02	C-203
●	6	PLAN AND BASELINE PROFILE – OU02	C-204
●	7	PLAN AND BASELINE PROFILE – OU03	C-205
●	8	FINAL PLAN BOAT LANCH	C-206
●	9	BOTTOM OF ISS AREA	C-207
●	10	TOP OF MONOLITH/SAND WEDGE SURVEY ISS AREA	G-208
●	11	FINAL GRADE OF ISS AREA	C-209

CONSTRUCTION CONTRACTOR:

LAND REMEDIATION
74 HUDSON RIVER ROAD
WATERFORD, NY 12188

STATE OF NEW YORK LICENSED PROFESSIONAL ENGINEER
03/31/20

NO.	DATE	DSGN	DR	CHK	APVD
1	3/31/20	MAP	BRT	MAP	MJS

RECORD DRAWING
REVISION
BY APVD
MAP MJS

NEW YORK STATE OF OPPORTUNITY. Department of Environmental Conservation

REMEDIAL ACTION
SARANAC LAKE GAS CO., INC.
SARANAC LAKE, NEW YORK
NYSDEC SITE NUMBER - 516008

MACTEC Engineering and Geology, P.C.
P.O. Box 7050, 511 Congress Street
Portland, Maine 04112-7050
(207) 775-5401

MACTEC

GENERAL
COVER

VERIFY SCALE

BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"

DATE	JAN 2020
PROJ	3611-16-1193
DWG	G-001
SHEET	1 OF 11

BASE MAP SOURCES:

1. MAP ENTITLED "REMEDIAL ACTION NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION SARANAC LAKE GAS CO., INC., SITE NO. 516008 OU02: BRANDY BROOK AND OU03 PONTIAC BAY ON LAKE FLOWER", DATED NOVEMBER 29, 2017 AND PREPARED BY MACTEC ENGINEERING AND CONSULTING, P.C.
2. FINAL AS-BUILT SURVEYS BY NMB LAND SURVEYING PLC, WYNANTSKILL, NY WITH VARIOUS SURVEY DATES FROM MAY 2018 TO JUNE 2019.
3. SURVEY SUBJECT TO ANY SUBSURFACE CONDITIONS THAT MAY EXIST, IF ANY.
4. NO UNDERGROUND UTILITY INVESTIGATION WAS PERFORMED.
5. THE DATUM USED FOR THIS SURVEY IS BASED ON MAP REFERENCE 1.

GENERAL NOTES:

1. THE NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION IS RESPONSIBLE FOR COORDINATING PERMISSIONS AND SECURING ACCESS AGREEMENTS TO PERMIT WORK AND CONSTRUCTION SUPPORT ACTIVITIES ON THE PROPERTIES ADJACENT TO THE LIMIT OF WORK.
2. WATER SURFACE ELEVATIONS SHOWN ARE APPROXIMATE AND BASED ON FIELD OBSERVATIONS OF THE WORK AREA DURING COMPLETION OF THE 2017 SURVEY. ACTUAL WATER ELEVATIONS MAY VARY IN THE FIELD.
3. SELECT A CONSTRUCTION SEQUENCE AND METHODOLOGY THAT MINIMIZES IMPACTS TO BUSINESSES AND PUBLIC AREAS IN THE VICINITY OF THE WORK.
4. THE LOCATION OF EXISTING UNDERGROUND UTILITIES AND STRUCTURES SHOULD BE CONSIDERED APPROXIMATE. OTHER UNIDENTIFIED UNDERGROUND FEATURES MAY BE PRESENT. VERIFY THE LOCATION OF ALL EXISTING UTILITIES OR STRUCTURES WITHIN THE LIMIT OF WORK PRIOR TO THE COMMENCEMENT OF EARTH DISTURBING ACTIVITIES. DIG SAFELY NEW YORK: 811 OR 1-800-962-7962.
5. SHOULD UNCHARTED, OR INCORRECTLY CHARTED, PIPING OR OTHER UTILITIES BE ENCOUNTERED DURING EARTH DISTURBING ACTIVITIES, CONSULT THE UTILITY OWNER AND ENGINEER IMMEDIATELY FOR DIRECTION. REPAIR OR COORDINATE REPAIR OF CONTRACTOR-DAMAGED UTILITIES TO THE SATISFACTION OF THE UTILITY OWNER, PROPERTY OWNER, AND ENGINEER.
6. DO NOT INTERRUPT EXISTING UTILITIES SERVING OCCUPIED FACILITIES WITHOUT ADVANCED NOTIFICATION TO THE DEPARTMENT AND THE OWNER. PROVIDE COORDINATION AND TIMELY NOTIFICATION TO THE AFFECTED UTILITY OWNER FOR SHUT-OFF AND RE-CONNECTION OF SERVICES FOR TEMPORARY REMOVAL AND REPLACEMENT DURING AND FOLLOWING EARTH DISTURBING ACTIVITIES. PROVIDE TEMPORARY FACILITIES DURING CONSTRUCTION.
7. CONTROL DUST GENERATION THROUGHOUT THE DURATION OF THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. DUST MONITORING WILL CONSIST OF CONTINUOUS PARTICULATE/DUST VISUAL OBSERVATION FOR DUST GENERATION DURING EXCAVATION/CONSTRUCTION ACTIVITIES. DURING NON-WORKING HOURS, LEAVE THE SITE IN A CONDITION THAT WILL PREVENT DUST FROM BEING GENERATED. MONITOR WEATHER REPORTS FOR DRY AND/OR WINDY CONDITIONS AND PREPARE THE SITE ACCORDINGLY.
8. AIR MONITORING WILL BE UNDERTAKEN BY THE RA CONTRACTOR AT THE PERIMETER OF THE WORK AREA TO DETERMINE WHEN ADDITIONAL ENGINEERING CONTROLS (E.G., WATER SPRAY) ARE REQUIRED TO SUPPRESS DUST EMISSION DURING THE EXECUTION OF THE WORK. AIR MONITORING WILL ALSO BE CONDUCTED TO MEASURE AMOUNTS OF VOLATILE ORGANIC COMPOUNDS (VOCS) ASSOCIATED WITH MGP WASTE, INCLUDING BENZENE AND NAPHTHALENE, ANTICIPATED TO BE RELEASED DURING THE RA.
9. CONTROL ODOR GENERATION THROUGHOUT THE DURATION OF THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. TYPICAL ODOR CONTROL MEASURES INCLUDE APPLYING HYDROCARBON VAPOR SUPPRESSING AGENTS, DETERGENTS, OR ODOR-SUPPRESSING FOAMS TO ACTIVE EXCAVATION AREAS AND STOCKPILED WASTES, AS WELL AS CONDUCTING SOIL STABILIZATION OPERATIONS IN TEMPORARY ENCLOSURES.
10. SEGREGATE CLEAN MATERIALS FROM MGP IMPACTED SOIL AND SEDIMENT AND STOCKPILE SEPARATELY.
11. COVER STOCKPILES WITH TARPS AND SANDBAG DURING NON-WORKING PERIODS.
12. DEWATER OR STABILIZE STOCKPILED WASTES TO MEET THE MOISTURE CONTENT AND WORKABILITY REQUIREMENTS OF THE FACILITY CHOSEN FOR OFF-SITE DISPOSAL. HISTORICAL FILTER BAG TEST RESULTS OF PONTIAC BAY SEDIMENTS ARE PROVIDED IN THE PRE-DESGN INVESTIGATION REPORT FOR THE CONTRACTOR'S REFERENCE. SUBMIT A MIX DESIGN FOR STABILIZING FINE-GRAINED DEPOSITS AS PART OF THE CONSTRUCTION WORK PLAN TO ENGINEER FOR APPROVAL IF STABILIZATION METHODS ARE USED.
13. COLLECT ALL CONSTRUCTION WATER, INCLUDING SURFACE WATER ENTERING THE WORK ZONE, WATER FROM DECONTAMINATION OF VEHICLES AND EQUIPMENT, AND WATER FROM EXCAVATION DEWATERING. CONSTRUCTION WATER SHALL BE TREATED ON-SITE AND DISCHARGED TO THE LOCAL POTW AT THE REQUIRED TREATMENT STANDARDS OR ALTERNATIVELY TO SURFACE WATER IF AVAILABLE PERMIT CRITERIA ARE MET. SUBMIT CONSTRUCTION WATER MANAGEMENT PLAN TO ENGINEER FOR APPROVAL.
14. PROVIDE APPROPRIATE PROTECTION FOR SITE WORKERS AND TRESPASSERS WHEN THERE IS DANGER OF FALLING INTO AN OPEN EXCAVATION.
15. ROADS SHALL BE KEPT CLEAN OF MUD AND DEBRIS AT ALL TIMES. ROADSIDE DRAINAGE SHALL BE MAINTAINED TO ASSURE EXISTING ROADWAY DRAINAGE IS NOT ADVERSELY IMPACTED.
16. MATERIALS, EQUIPMENT AND VEHICLES SHALL NOT BE STORED OR PARKED WITHIN ROADWAY RIGHT OF WAY.
17. WORK ZONE TRAFFIC CONTROL SHALL BE PROVIDED IN ACCORDANCE WITH THE MOST RECENT NYSDOT STANDARD SPECIFICATION SECTION 619 WORK ZONE TRAFFIC CONTROL AND THE NATIONAL MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) FOR STREETS AND HIGHWAYS LATEST EDITION AND THE NEW YORK STATE SUPPLEMENT.

LEGEND:

UTILITY POLE
TREE LINE
WV WATER VALVE
FIRE HYDRANT
W MONITORING WELL
BOLLARD
SIGN (1 POST)
SIGN (2 POST)
X CHAINLINK FENCE
LIGHT POST
1531 MINOR CONTOUR
1530 MAJOR CONTOUR
1538.7 GROUND SPOT ELEVATIONS
1538.4 TOP OF PIPE ELEVATION
W WATER LINE
G GAS LINE
E UNDERGROUND ELECTRIC LINE
S SEWER LINE
S SEWER MANHOLE
D DRAINAGE MANHOLE
OH OVERHEAD UTILITY LINE
GV GAS VALVE
RAIL ROAD TRACKS
ASPHALT
GRAVEL AREA
CONCRETE
REACTIVE CORE MATTING AREA
BASELINE CONTROL POINT
DROP LOG STRUCTURES
EDGE OF STREAM
LIMIT OF EXCAVATION
SHORE LINE
LIMIT OF ISS
RIP RAP AREA
SOIL CHOKED STONE/ANGULAR STONE
FISH CRIB
FISH ROCK PILE
MA PLACED MAPLE
ASP PLACED ASPEN
CH PLACED CHERRY
DW PLACED DOGWOOD
POP PLACED POPLAR
BI PLACED BIRCH
SP PLACED SPRUCE
WP PLACED WHITE PINE

ABBREVIATIONS:

IN	INCH(ES)
FT	FOOT OR FEET
APPROX	APPROXIMATE
BM	BENCHMARK
CB	CATCH BASIN
CL	CENTER LINE
CMP	CORRUGATED METAL PIPE
DIA	DIAMETER
DWG	DRAWING
EL	ELEVATION
GPM	GALLON(S) PER MINUTE
HDPE	HIGH DENSITY POLYETHYLENE
INV	INVERT
ISS	IN SITU STABILIZATION/SOLIDIFICATION
MAX	MAXIMUM
MGP	MANUFACTURED GAS PLANT
MIN	MINIMUM
MW	MONITORING WELL
NAVD	NORTH AMERICAN VERTICAL DATUM
NTS	NOT TO SCALE
NYSDEC	NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
OC	ON CENTER
OH	OVERHEAD UTILITY
OZ	OUNCE
PEM	PALUSTRINE, EMERGENT WETLANDS
PSS	PALUSTRINE, SCRUB-SHRUB WETLANDS
PCB	POLYCHLORINATED BIPHENYL
TSCA	TOXIC SUBSTANCES CONTROL ACT
TYP	TYPICAL
RCM	REACTIVE CORE MAT
PP	POWER POLE

CONTROL POINTS:

Control ID	Northing	Easting	Elevation	Description
2984	1999774.077	592685.332	1545.690	CBP
2988	1999314.956	592741.973	1550.385	CBP
2990	1999792.272	592658.264	1548.420	BM X CUT HEADWALL
2992	2000430.759	591021.880	1535.420	BM X FLANGE BOLT
2995	2000427.836	590997.877	1533.149	CBP
2996	2000521.899	591344.323	1536.652	CBP
3391	2000553.347	590025.228	1533.671	CBP
3394	2000185.758	590794.364	1532.487	CBP
3395	2000591.134	589991.283	1531.622	USMH
3396	2000456.145	590110.605	1530.588	BL50 MAG
999997	2000472.213	590116.367	1531.863	BASE CIR

STATE OF NEW YORK · MARK JAMES STELMACK · LICENSED PROFESSIONAL ENGINEER · 080317
03/31/20

NO.	DATE	REVISION	BY	APVD
1	3/31/20	RECORD DRAWING	MAP	MJS

DSGN MAP | DR BRT | CHK MAP | APVD MJS

MACTEC
MACTEC Engineering and Geology, P.C.
P.O. Box 7050, 511 Congress Street
Portland, Maine 04112-7050
(207) 775-5401

NEW YORK STATE OF OPPORTUNITY · Department of Environmental Conservation

REMEDIAL ACTION
SARANAC LAKE GAS CO., INC.
SARANAC LAKE, NEW YORK
NYSDEC SITE NUMBER - 516008

GENERAL
NOTES, LEGEND AND ABBREVIATIONS

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"

DATE	JAN 2020
PROJ	3611-16-1193
DWG	G-002
SHEET	2 OF 11

MATCH LINE – SEE DWG. C-202

SEWER MANHOLE
RIM = 1542.45'

SEWER MANHOLE
RIM = 1544.16'

SEWER MANHOLE
RIM = 1542.49'

SEWER MANHOLE
RIM = 1543.67'

LIMIT OF EXCAVATION

24" CMP

RAIL ROAD

0+00
OU02
BASELINE

1+00
2+00
3+00
4+00
5+00
6+00
7+00

1532.0
1532.1
1531.8
1532.7
1532.4
1533.2
1533.4
1533.0
1533.5
1534.0
1531.1
1530.6
1534.2
1533.4
1532.1
1531.8
1533.9
1534.7
1535.2
1533.7
1533.4

GROUNDWATER
MONITORING
WELL (TYP)

TANK
HOLDERS

GATE

CHAINLINK FENCE

0 15 30 60
SCALE IN FEET

NO.	DATE	DSGN	DR	CHK
1	3/31/20	MAP	MAP	BRT

RECORD DRAWING
REVISION

BY	APVD
MAP	MJS

APVD MJS 03/31/20

UNAUTHORIZED ALTERATION OR ADDITION TO THIS DOCUMENT IS A VIOLATION OF SECTION 7209 OF THE NEW YORK STATE EDUCATION LAW.

NEW YORK STATE OF OPPORTUNITY | Department of Environmental Conservation

REMEDIAL ACTION
SARANAC LAKE GAS CO., INC.
SARANAC LAKE, NEW YORK
NYSDEC SITE NUMBER - 516008

MACTEC Engineering and Geology, P.C.
P.O. Box 7050, 51 Commercial Street
Portland, Maine 04112-7050
(207) 775-5401

MACTEC

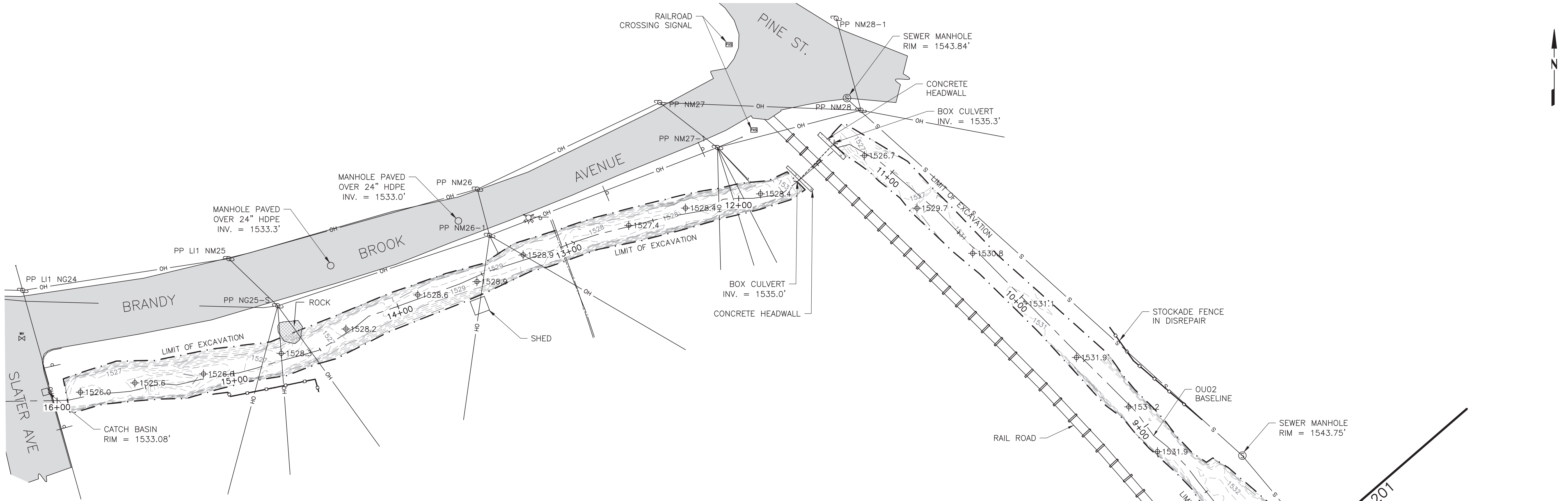
CIVIL

BOTTOM OF EXCAVATION OU02

VERIFY SCALE

BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"

DATE	JAN 2020
PROJ	3611-16-1193
DWG	C-201
SHEET	3 OF 11



CONFIRMATION SAMPLE LOCATIONS:

Line	sysloccode	latitude	longitude	surfelev
1	OU-2 SOIL-131	44.323086	-74.121266	1527.977
2	OU-2 SOIL-132	44.323119	-74.121284	1528.376
3	OU-2 SOIL-133	44.323102	-74.121395	1527.012
4	OU-2 SOIL-134	44.323054	-74.121494	1528.74
5	OU-2 SOIL-135	44.323092	-74.121515	1526.675
6	OU2 SED-126	44.323194	-74.120985	1528.653
7	OU2 SED-127	44.323165	-74.12097	1525.996
8	OU2 SED-128	44.323142	-74.12104	1526.419
9	OU2 SED-129	44.323173	-74.12105	1527.506
10	OU2 SED-130	44.323104	-74.121139	1528.432
11	OU2 SED-144	44.323141	-74.121093	1525.904
12	OU2 SED-145	44.323125	-74.121195	1525.65
13	OU2 SED-46	44.323182	-74.120979	1528.279
14	OU2 SED-47	44.323157	-74.121037	1526.271
15	OU2 SED-48	44.323117	-74.121157	1526.724
16	OU2 SOIL-162	44.323123	-74.121055	1527.107
17	OU2 SOIL-163	44.323156	-74.121109	1527.294
18	OU2-SED-0164-BOT	44.321679	-74.118525	1533.097
19	OU2-SED-1BOT	44.321217	-74.117939	1534.672
20	OU2-SED-10-BOT	44.321547	-74.11841	1531.311
21	OU2-SED-100-SIDE	44.323079	-74.119409	1532.252
22	OU2 SED 101 SIDE	44.323058	74.119444	1532.327
23	OU2-SED-102-SIDE	44.323136	-74.119493	1532.07
24	OU2 SED 103 SIDE	44.323116	74.119521	1531.75
25	OU2-SED-104-SIDE	44.323195	-74.119575	1532.312
26	OU2 SED 105 SIDE	44.323173	74.11961	1532.005
27	OU2-SED-106-SIDE	44.323231	-74.119689	1532.603
28	OU2 SED 108 SIDE	44.323289	74.119771	1532.301
29	OU2-SED-109-SIDE	44.32337	-74.119817	1526.733
30	OU2 SED 11 BOT	44.321925	74.118447	1533.098
31	OU2-SED-110-SIDE	44.323348	-74.119844	1527.611
32	OU2-SED-111-SIDE	44.323407	-74.119877	1526.853
33	OU2-SED-112-SIDE	44.323385	-74.119929	1526.796
34	OU2-SED-113-SIDE	44.323445	-74.119993	1525.852
35	OU2-SED-114-SIDE	44.323427	-74.119986	1528.326
36	OU2-SED-115-SIDE	44.32336	-74.120102	1530.031
37	OU2-SED-116-SIDE	44.323343	-74.120217	1528.518
38	OU2-SED-117-SIDE	44.323366	-74.120219	1529.417
39	OU2-SED-118	44.323302	-74.120403	1527.498
40	OU2-SED-119	44.323338	-74.120405	1528.292
41	OU2-SED-12-BOT	44.322002	-74.118488	1532.923
42	OU2-SED-120	44.323291	-74.120476	1526.711
43	OU2-SED-121	44.323322	-74.120508	1527.052
44	OU2-SED-13-BOT	44.322082	-74.118499	1532.343
45	OU2-SED-14-BOT	44.32217	-74.118444	1532.708
46	OU2-SED-140BOT	44.321728	-74.118343	1528.543
47	OU2-SED-143	44.323212	-74.120889	1528.478
48	OU2-SED-15-BOT	44.322162	-74.118581	1533.542
49	OU2-SED-155-SIDE	44.323389	-74.120113	1531.007
50	OU2-SED-16-BOT	44.322258	-74.118458	1532.589
51	OU2-SED-165-BOT	44.321739	-74.11856	1533.361
52	OU2-SED-166-SIDE	44.321638	-74.118497	1534.05
53	OU2-SED-167-SIDE	44.321668	-74.118557	1534.037
54	OU2-SED-168-SIDE	44.321729	-74.118592	1534.123
55	OU2-SED-169-SIDE	44.32178	-74.118572	1534.213
56	OU2-SED-17-BOT	44.322233	-74.11858	1533.525
57	OU2-SED-18-BOT	44.322305	-74.118636	1532.223
58	OU2-SED-19-BOT	44.322332	-74.118534	1532.159
59	OU2-SED-2BOT	44.321278	-74.118026	1534.378
60	OU2-SED-20-BOT	44.322368	-74.118679	1533.074
61	OU2-SED-21-BOT	44.322403	-74.118605	1531.435
62	OU2-SED-22-BOT	44.32245	-74.1187	1532.439
63	OU2-SED-23-BOT	44.322496	-74.118791	1531.858
64	OU2-SED-24-BOT	44.322571	-74.118844	1531.945
65	OU2-SED-25-BOT	44.322638	-74.118897	1532.085
66	OU2-SED-26-BOT	44.322702	-74.118962	1532.005
67	OU2-SED-27-SIDE	44.322777	-74.119023	1531.589
68	OU2-SED-28-BOT	44.322828	-74.119116	1531.667
69	OU2-SED-29-BOT	44.32259	-74.119191	1530.909
70	OU2-SED-3BOT	44.321324	-74.118086	1534.304
71	OU2-SED-30-BOT	44.322948	-74.119271	1531.168
72	OU2-SED-31-BOT	44.323007	-74.11935	1531.028
73	OU2-SED-32-BOT	44.323068	-74.119425	1531.324
74	OU2-SED-34-BOT	44.323185	-74.119589	1529.902
75	OU2-SED-35-BOT	44.323244	-74.11967	1531.479
76	OU2-SED-36-BOT	44.323303	-74.119749	1530.655
77	OU2 SED 37 BOT	44.323359	74.11983	1526.655
78	OU2-SED-38-BOT	44.323393	-74.119907	1526.433
79	OU2 SED 39 BOT	44.32344	74.119985	1525.769
80	OU2-SED-3A-BOT	44.321325	-74.118085	1533.655
81	OU2 SED 4BOT	44.321391	74.118152	1533.845
82	OU2-SED-40-BOT	44.323374	-74.120115	1529.194
83	OU2 SED 40A	44.323365	74.120151	1527.434
84	OU2-SED-41-BOTTOM MS	44.323355	-74.120217	1528.745
85	OU2 SED 42	44.32332	74.120402	1526.907
86	OU2-SED-43	44.323305	-74.120495	1526.269
87	OU2-SED-44	44.323278	-74.120622	1529.008
88	OU2-SED-45	44.323245	-74.120747	1528.593
89	OU2-SED-49	44.323102	-74.121256	1527.407
90	OU2-SED-4A-BOT	44.321394	-74.118152	1531.935
91	OU2-SED-5	44.321465	-74.118207	1533.483
92	OU2-SED-50	44.323074	-74.121403	1526.547
93	OU2-SED-51	44.323068	-74.12152	1526.363
94	OU2-SED-52	44.323035	-74.121626	1526.318
95	OU2-SED-53	44.321186	-74.117942	1535.947
96	OU2-SED-53A-SIDE	44.321183	-74.117945	1535.677
97	OU2-SED-54	44.321232	-74.117935	1535.612
98	OU2-SED-55	44.321256	-74.118055	1536.926
99	OU2-SED-56	44.321256	-74.11801	1535.547
100	OU2-SED-57	44.321313	-74.118105	1535.05
101	OU2-SED-58	44.321336	-74.118069	1534.95
102	OU2-SED-59	44.321408	-74.118119	1535.178
103	OU2-SED-6	44.321542	-74.118249	1533.048
104	OU2-SED-60	44.321475	-74.118178	1536.31
105	OU2-SED-61	44.321545	-74.118223	1535.13
106	OU2-SED-62	44.321623	-74.118269	1535.101
107	OU2-SED-62A-SIDE	44.321625	-74.118265	1535.438
108	OU2-SED-63SIDE	44.3217	-74.118301	1530.553
109	OU2-SED-64SIDE	44.321778	-74.118336	1531.314
110	OU2-SED-64SIDEWALL			0
111	OU2-SED-65-SIDE	44.321881	-74.118386	1532.182
112	OU2-SED-66-SIDE	44.321843	-74.118433	1533.34
113	OU2-SED-67-SIDE	44.321932	-74.11843	1533.837
114	OU2-SED-68-SIDE	44.32192	-74.118468	1534.583
115	OU2-SED-69-SIDE	44.322008	-74.118469	1533.551
116	OU2-SED-7	44.321617	-74.118283	1533.13
117	OU2-SED-70-SIDE	44.321991	-74.118514	1534.296
118	OU2-SED-71-SIDE	44.322087	-74.118436	1533.142
119	OU2-SED-72-SIDE	44.322089	-74.118559	1533.919
120	OU2-SED-73-SIDE	44.322179	-74.118347	1534.93
121	OU2-SED-74-SIDE	44.322157	-74.118601	1533.94
122	OU2-SED-75-SIDE	44.322276	-74.118421	1533.054
123	OU2-SED-76-SIDE	44.322347	-74.118487	1533.293
124	OU2-SED-77-SIDE	44.322289	-74.118704	1533.884
125	OU2-SED-78-SIDE	44.322421	-74.118569	1532.607
126	OU2-SED-79-SIDE	44.322344	-74.11873	1534.202
127	OU2-SED-8BOT	44.321693	-74.118334	1529.256
128	OU2-SED-80-SIDE	44.322484	-74.11868	1533.569
129	OU2-SED-81-SIDE	44.322396	-74.118762	1534.642
130	OU2-SED-82-SIDE	44.322587	-74.118712	1533.856
131	OU2-SED-83-SIDE	44.322472	-74.118814	1533.67
132	OU2 SED 84 SIDE	44.322594	74.118773	1533.263
133	OU2-SED-85-SIDE	44.322568	-74.118883	1533.435
134	OU2 SED 86 SIDE	44.322658	74.118864	1532.944
135	OU2-SED-87-SIDE	44.322629	-74.118931	1533.087
136	OU2 SED 88 SIDE	44.322722	74.118936	1532.574
137	OU2-SED-89-SIDE	44.322688	-74.119011	1533.313
138	OU2 SED 9BOT	44.321771	74.118367	1529.714
139	OU2-SED-90-SIDE	44.322789	-74.119003	1532.264
140	OU2 SED 91 SIDE	44.322755	74.119077	1532.139
141	OU2-SED-92-SIDE	44.322854	-74.11908	1531.938
142	OU2-SED-93-SIDE	44.322812	-74.119134	1532.45
143	OU2-SED-94-SIDE	44.322904	-74.119168	1531.693
144	OU2-SED-95-SIDE	44.322878	-74.119205	1531.987
145	OU2-SED-96-SIDE	44.322962	-74.119258	1532.326
146	OU2-SED-97-SIDE	44.322944	-74.119286	1532.645
147	OU2-SED-98-SIDE	44.323018	-74.119332	1531.902
148	OU2-SED-99-SIDE	44.322995	-74.119368	1532.324
149	OU2-SOIL-122	44.323293	-74.120633	1529.441
150	OU2-SOIL-123	44.32326	-74.120605	1529.696
151	OU2-SOIL-124	44.323229	-74.120734	1529.694
152	OU2-SOIL-125	44.323252	-74.120765	1529.935
153	OU2-SOIL-134	44.323054	-74.121494	1528.74
154	OU2-SOIL-135	44.323092	-74.121515	1526.675
155	OU2-SOIL-136	44.323044	-74.121612	1526.579
156	OU2-SOIL-137	44.32308	-74.12162	1526.417
157	OU2-SOIL-138	44.321436	-74.118214	1537.074
158	OU2-SOIL-139	44.321561	-74.118287	1535.364
159	OU2-SOIL-141	44.323334	-74.120338	1528.096
160	OU2-SOIL-146	44.321275	-74.118068	1535.265
161	OU2-SOIL-147BOT	44.321366	-74.118165	1536.411
162	OU2-SOIL-148	44.321433	-74.118137	1535.245
163	OU2-SOIL-149	44.321453	-74.118231	1537.592
164	OU2-SOIL-150	44.321534	-74.118275	1535.363
165	OU2-SOIL-151	44.321609	-74.118314	1535.706
166	OU2-SOIL-152	44.321649	-74.118322	1532.551
167	OU2-SOIL-153	44.321768	-74.118387	1532.983
168	OU2-SOIL-154	44.322251	-74.118676	1534.139
169	OU2-SOIL-155A	44.323389	-74.120113	1531.007
170	OU2-SOIL-155A-SIDE	44.323376	-74.120158	1527.85
171	OU2-SOIL-156	44.323348	-74.12033	1528.67
172	OU2-SOIL-157	44.323322	-74.120323	1528.721
173	OU2-SOIL-158	44.323312	-74.120558	1526.864
174	OU2-SOIL-159	44.323284	-74.120542	1526.056
175	OU2-SOIL-160	44.323195	-74.120858	1525.996
176	OU2-SOIL-161	44.323217	-74.120905	1528.91

0 15 30 60
SCALE IN FEET

NO.	DATE	REVISION	BY	APVD
1	3/31/20	RECORD DRAWING	MAP	MJS

DSGN	DR	CHK	APVD
MAP	MAP	BRT	MJS

03/31/20

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REMEDIAL ACTION
SARANAC LAKE GAS CO., INC.
SARANAC LAKE, NEW YORK
NYSDEC SITE NUMBER - 516008

NEW YORK STATE OF OPPORTUNITY | Department of Environmental Conservation

MACTEC
MACTEC Engineering and Geology, P.C.
P.O. Box 7050, 511 Congress Street
Portland, Maine 04112-7050
(207) 775-5401

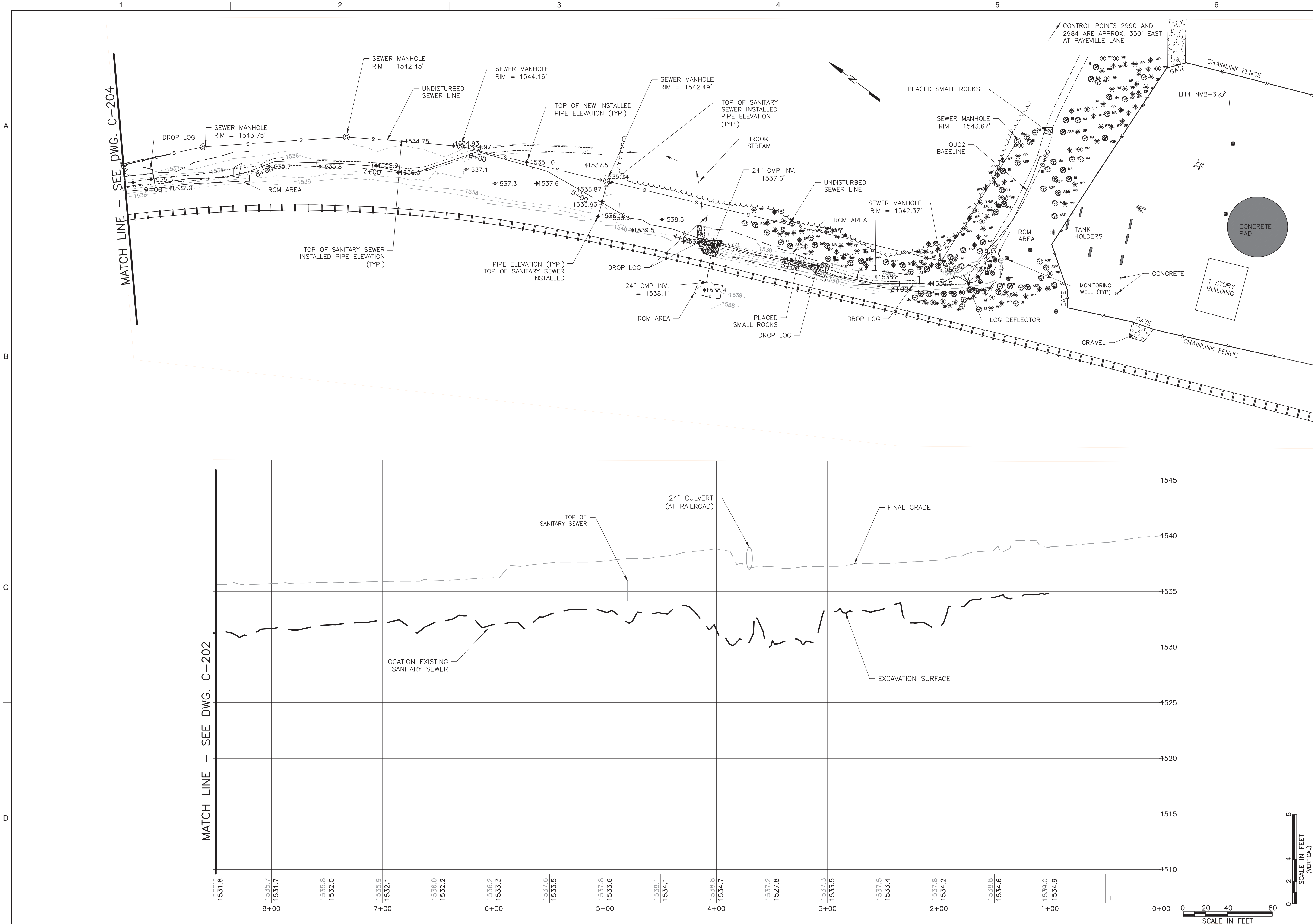
CIVIL

BOTTOM OF EXCAVATION
OU02

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"

DATE	JAN 2020
PROJ	3611-16-1193
DWG	C-202
SHEET	4 OF 11

FILE NAME: Z:\Projects\nysdec1\Saranac Lake\REC-C-202-BOTTOM OF EXC - OU2.dwg PLOT DATE: Fri, 13 Mar 2020 PLOT TIME: 2:54 PM



NO.	DATE	REVISION	DR	CHK	APVD	BY	APVD
1	3/31/20	RECORD DRAWING				MAP	MJS
DSGN			MAP	BRT	MAP		MJS

03/31/20

NEW YORK STATE OF OPPORTUNITY — Department of Environmental Conservation

REMEDIAL ACTION
SARANAC LAKE GAS CO., INC.
SARANAC LAKE, NEW YORK
NYSDEC SITE NUMBER - 516008

MACTEC

MACTEC Engineering and Geology, P.C.
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Portland, Maine 04112-7050
(207) 775-5401

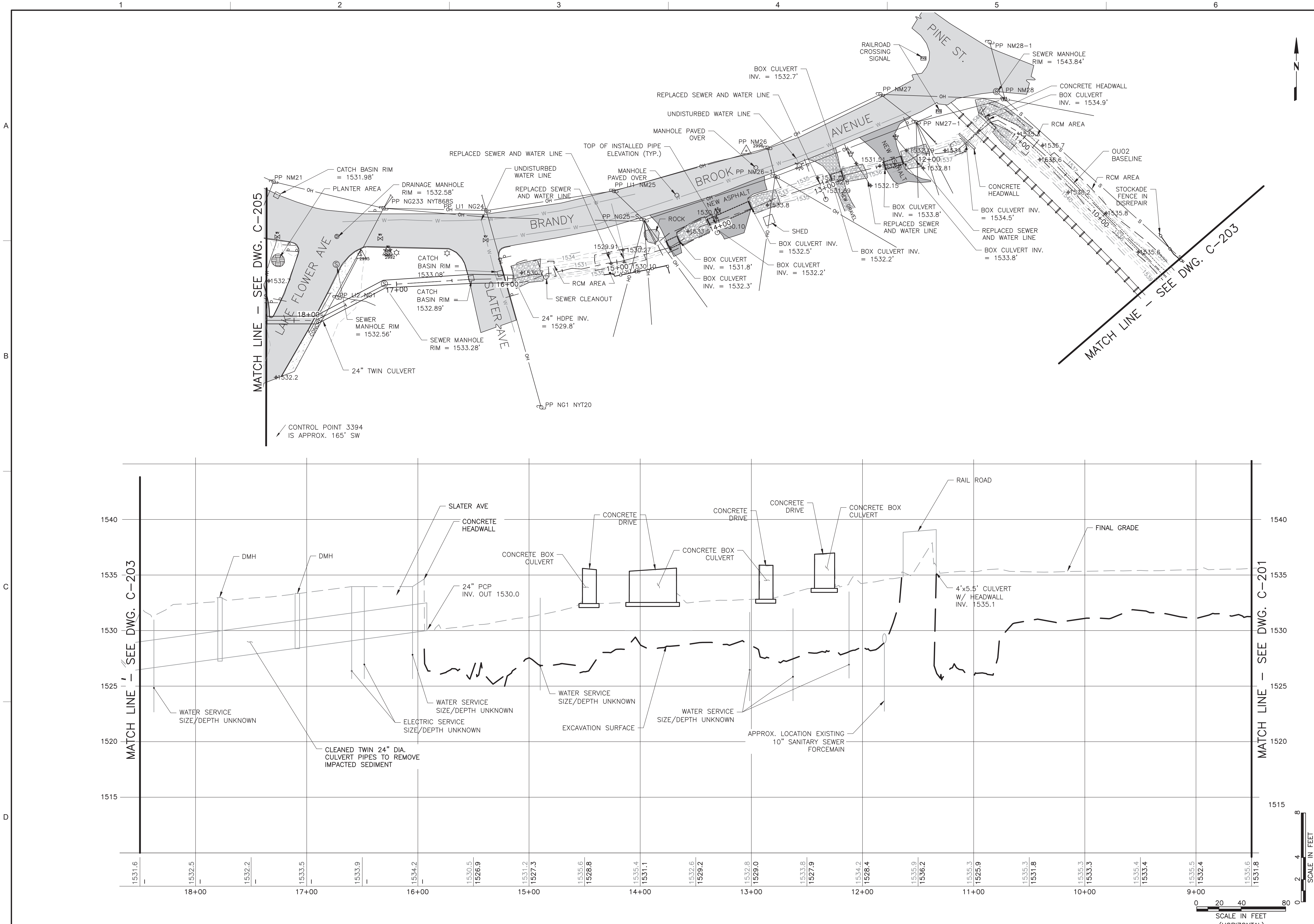
CIVIL

PLAN AND BASELINE PROFILE OU02

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"

DATE	JAN 2020
PROJ	3611-16-1193
DWG	C-203
SHEET	5 OF 11

FILE NAME: Z:\Projects\nysdec1\Saranac Lake\REC-C-203-PP- OU2.dwg PLOT DATE: Fri, 13 Mar 2020 PLOT TIME: 2:55 PM



RECORD DRAWING

NO.	DATE	REVISION	BY	APVD
1	3/31/20	RECORD DRAWING	MAP	MJS

DSGN	DR	CHK	APVD
MAP	BRT	MAP	MJS

03/31/20

MACTEC

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P.O. Box 7050, 511 Congress Street
Portland, Maine 04112-7050
(207) 775-5401

NEW YORK STATE OF OPPORTUNITY | Department of Environmental Conservation

REMEDIAL ACTION
SARANAC LAKE GAS CO., INC.
SARANAC LAKE, NEW YORK
NYSDEC SITE NUMBER - 516008

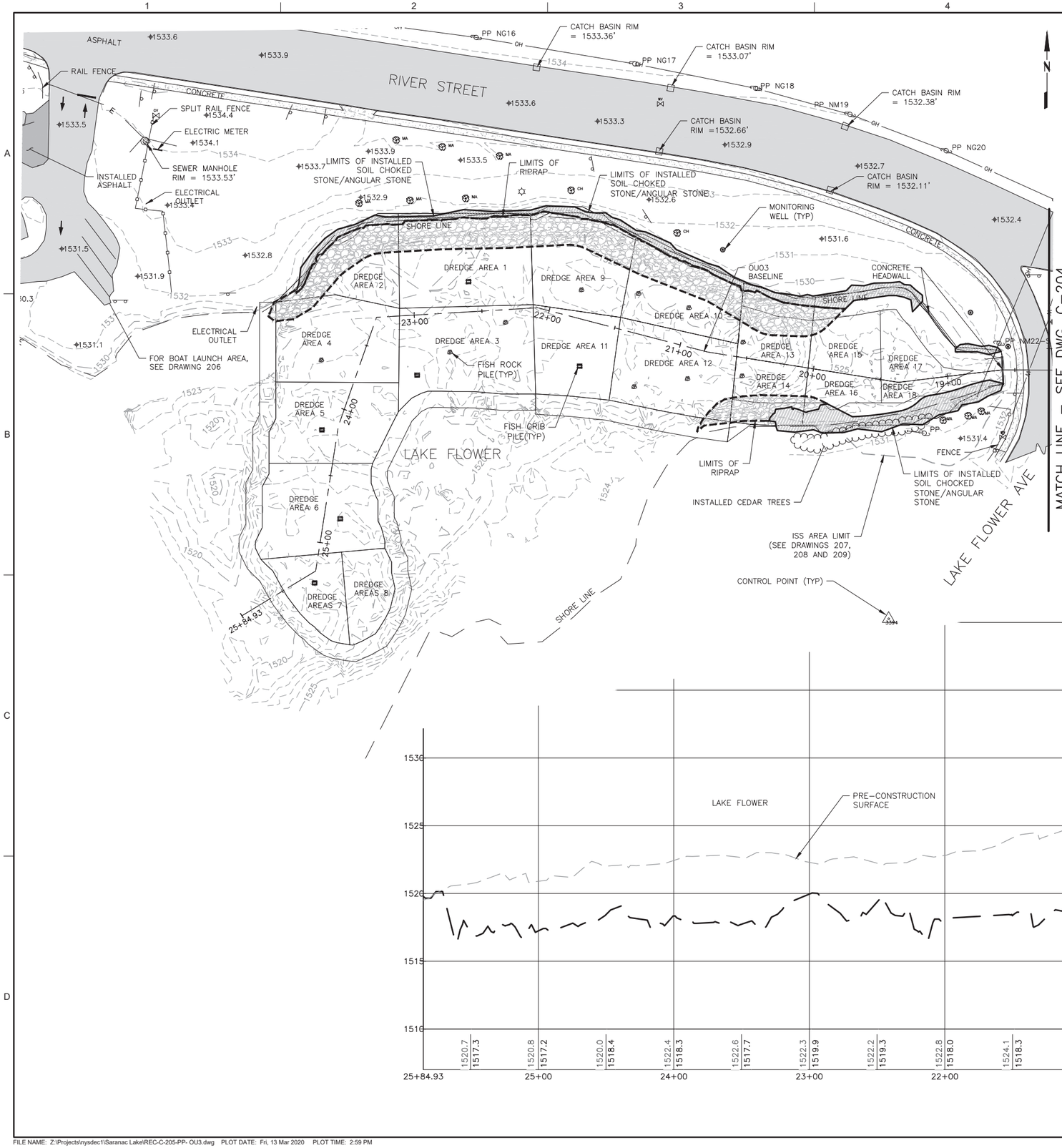
CIVIL

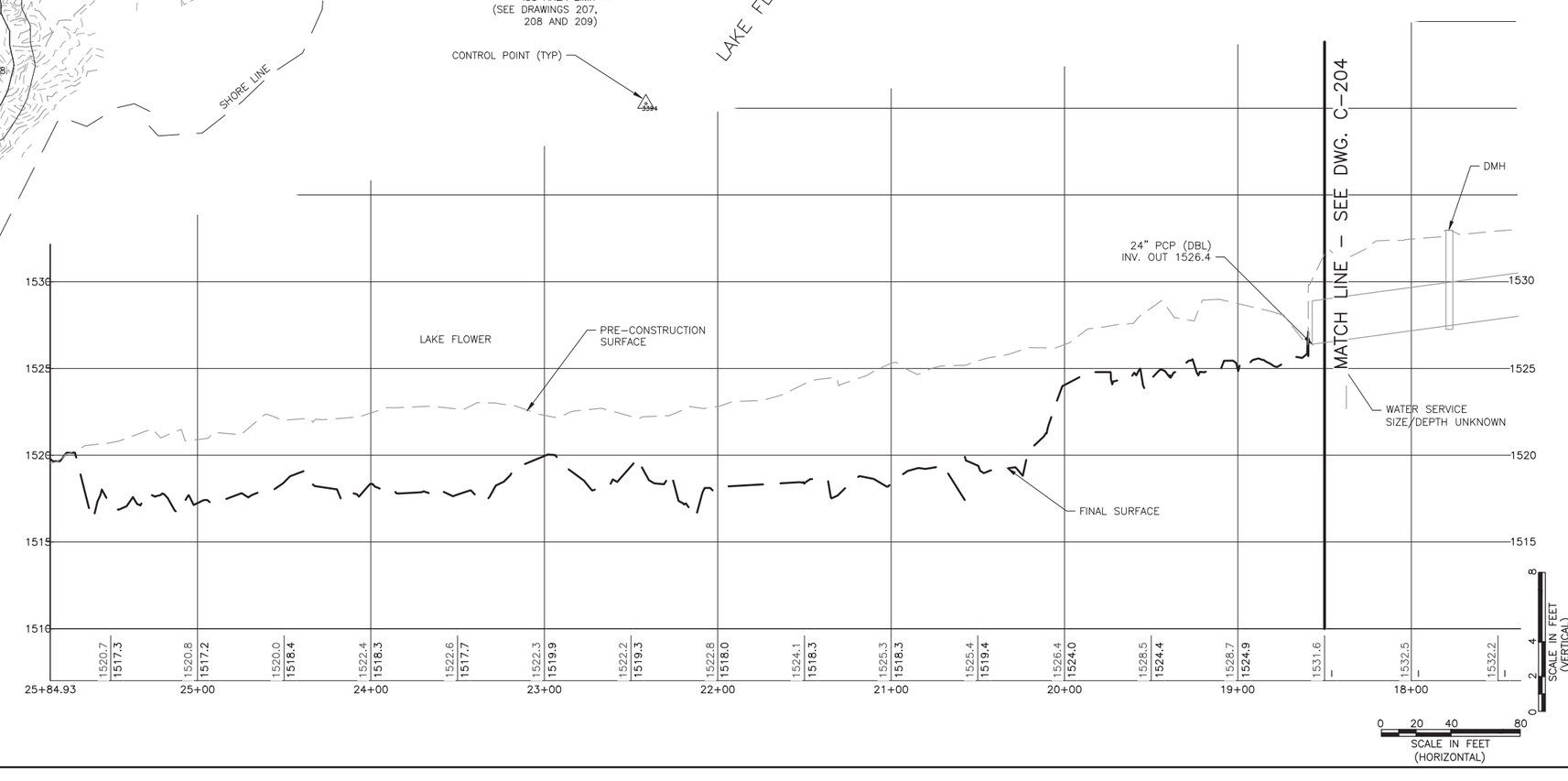
PLAN AND BASELINE PROFILE OU02

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"

DATE	JAN 2020
PROJ	3611-16-1193
DWG	C-204
SHEET	6 OF 11

FILE NAME: Z:\Projects\nysdec1\Saranac Lake\REC-C-204-PP- OU2.dwg PLOT DATE: Fri, 13 Mar 2020 PLOT TIME: 2:57 PM





CONFIRMATION SAMPLE LOCATIONS:

182	OU3-SED-1 COM	44.323122	-74.124219	1520.3426
183	OU3-SED-11	44.323122	-74.124219	1520.3426
184	OU3-SED-12	44.323184	-74.124241	1519.8338
185	OU3-SED-13	44.323196	-74.124045	1520.2279
186	OU3-SED-14	44.323105	-74.124034	1520.431
187	OU3-SED-10 COM	44.323057	-74.123571	1520.1731
188	OU3-SED-10-1	44.323057	-74.123571	1520.1731
189	OU3-SED-11 COM	44.322935	-74.12357	1518.3213
190	OU3-SED-12 COM	44.322921	-74.123651	1518.9209
191	OU3-SED-13 COM	44.322988	-74.12331	1518.0426
192	OU3-SED-13-1	44.322988	-74.12331	1518.0426
193	OU3-SED-14 COM	44.32295	-74.123323	1518.0412
194	OU3-SED-14-1	44.32295	-74.123323	1518.0412
195	OU3-SED-14-2	44.322935	-74.123233	1518.1339
196	OU3-SED-15-1	44.322973	-74.123116	1519.4233
197	OU3-SED-15-COM	44.322973	-74.123116	1519.4233
198	OU3-SED-15-COMP-DUP			0'
199	OU3-SED-16-1	44.322921	-74.123111	1519.3997
200	OU3-SED-16-COM	44.322921	-74.123111	1519.3997
201	OU3-SED-17-1	44.322955	-74.122934	1519.752
202	OU3-SED-17-2	44.323016	-74.122916	1519.444
203	OU3-SED-17-COM	44.322955	-74.122934	1519.752
204	OU3-SED-18-1	44.322935	-74.122941	1518.4304
205	OU3-SED-18-2	44.322933	-74.122904	1519.7386
206	OU3-SED-18-COM	44.322935	-74.122941	1518.4304
207	OU3-SED-2 COM			0'
208	OU3-SED-2 COMPOSITE	44.323138	-74.124499	1521.6327
209	OU3-SED-3 COM	44.322947	-74.124246	1518.071
210	OU3-SED-4 COM			0'
211	OU3-SED-4 COMPOSITE	44.322977	-74.124609	1519.8475
212	OU3-SED-9 COM	44.323113	-74.123888	1519.5943
213	OU3-SED-9-1	44.323113	-74.123888	1519.5943
214	OU3-SED-9-2	44.323202	-74.12388	1519.5342
215	OU3-SED5	44.322809	-74.124608	1518.2526
216	OU3-SED6	44.322628	-74.124628	1517.4143
217	OU3-SED7	44.322461	-74.124517	1518.1193
218	OU3-SED8	44.322451	-74.124446	1519.5404

STATE OF NEW YORK LICENSED PROFESSIONAL ENGINEER
03/31/20

NO.	DATE	DSGN	DR	CHK	APVD
				MAP	MJS
				BY	APVD
1	3/31/20	MAP	BRT	MAP	MJS

RECORD DRAWING
REVISION

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NEW YORK STATE OF OPPORTUNITY. Department of Environmental Conservation

REMEDIAL ACTION
SARANAC LAKE GAS CO., INC.
SARANAC LAKE, NEW YORK
NYSDEC SITE NUMBER - 516008

MACTEC Engineering and Geology, P.C.
P.O. Box 7050, 51 Commercial Street
Portland, Maine 04112-7050
(207) 775-5401

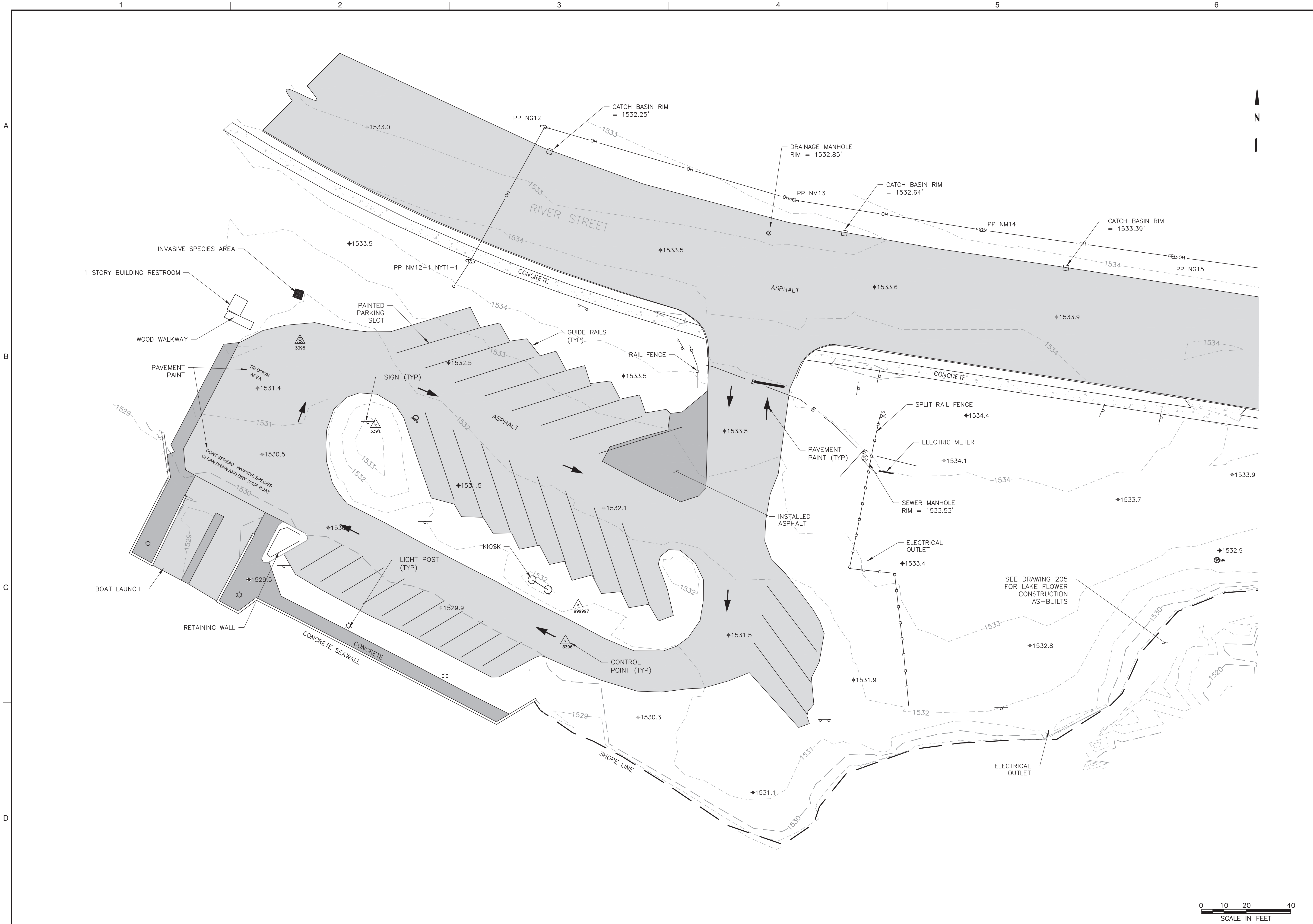
MACTEC

CIVIL

PLAN AND BASELINE PROFILE
OU03

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"

DATE	JAN 2020
PROJ	3611-16-1193
DWG	C-205
SHEET	7 OF 11



RECORD DRAWING

NO.	DATE	REVISION	MAP	BY	MJS	APVD
1	3/31/20	RECORD DRAWING	MAP		MJS	

DSGN MAP | DR MAP | CHK BRT | APVD MJS

03/31/20

REMEDIAL ACTION
SARANAC LAKE GAS CO., INC.
SARANAC LAKE, NEW YORK
NYSDEC SITE NUMBER - 516008

NEW YORK STATE OF OPPORTUNITY. Department of Environmental Conservation

MACTEC

MACTEC Engineering and Geology, P.C.
P.O. Box 7050, 511 Congress Street
Portland, Maine 04112-7050
(207) 775-5401

CIVIL

FINAL PLAN BOAT LANCH

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"

DATE	JAN 2020
PROJ	3611-16-1193
DWG	C-206
SHEET	8 OF 11

LAKE FLOWER

SHORELINE

CONCRETE HEADWALL

LIMIT OF ISS

CELL DESIGNATION (TYP)

1 STORY FRAME

SIDE WALK

LAKE FLOWER AVE

N

0 2.5 5 10
SCALE IN FEET

NO.	DATE	DSGN
1	3/31/20	MAP

RECORD DRAWING

REVISION

DR	CHK	APVD
MAP	BRT	MAP

BY	APVD
MAP	MJS

MJS 03/31/20

NEW YORK STATE OF OPPORTUNITY. Department of Environmental Conservation

REMEDIAL ACTION
SARANAC LAKE GAS CO., INC.
SARANAC LAKE, NEW YORK
NYSDEC SITE NUMBER - 516008

MACTEC Engineering and Geology, P.C.
P.O. Box 1026, 11 Commercial Street
Portland, Maine 04112-7050
(207) 775-5401

MACTEC

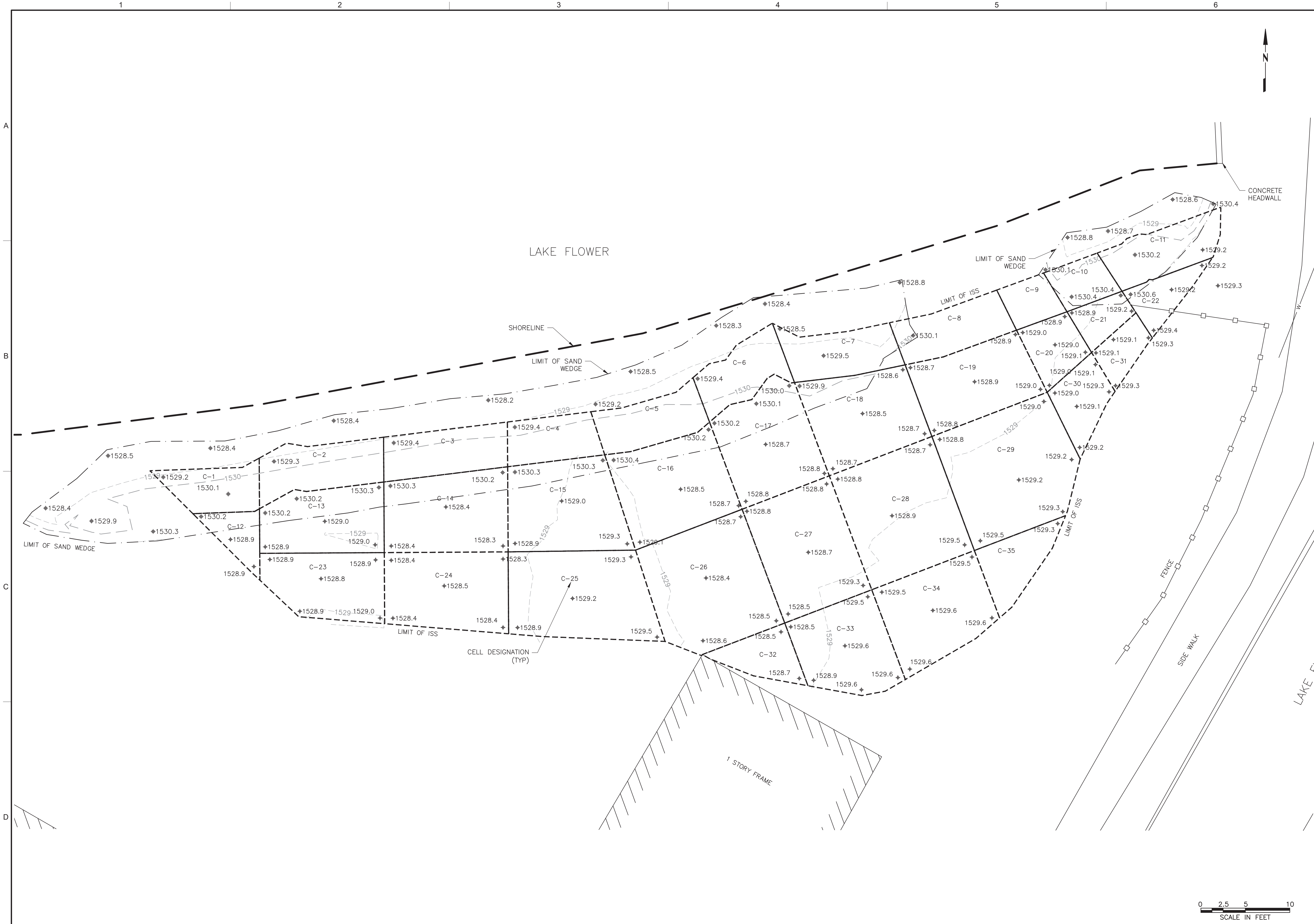
CIVIL

BOTTOM OF ISS AREA

VERIFY SCALE

BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"

DATE	JAN 2020
PROJ	3611-16-1193
DWG	C-207
SHEET	9 OF 11



MACTEC

MACTEC Engineering and Geology, P.C.
P.O. Box 7050, 511 Congress Street
Portland, Maine 04112-7050
(207) 775-5401

NEW YORK STATE OF OPPORTUNITY | Department of Environmental Conservation

CIVIL

TOP OF MONOLITH/SAND WEDGE SURVEY ISS AREA

REMEDIAL ACTION
SARANAC LAKE GAS CO., INC.
SARANAC LAKE, NEW YORK
NYSDEC SITE NUMBER - 516008

NO.	DATE	REVISION	BY	APVD
1	3/31/20	RECORD DRAWING	MAP	MJS

DSGN	DR	CHK	APVD
MAP	MAP	BRT	MAP

MJS 03/31/20

VERIFY SCALE
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0 1"

DATE	JAN 2020
PROJ	3611-16-1193
DWG	C-208
SHEET	10 OF 11

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LAKE FLOWER

SHORELINE

CONCRETE HEADWALL

LIMIT OF ISS

CELL DESIGNATION (TYP)

1 STORY FRAME

FENCE

SIDE WALK

LAKE FLOWER AVE

SCALE IN FEET 0 2.5 5 10

N

NO.	DATE	DSGN	DR	CHK
1	3/31/20	MAP	MAP	BRT

RECORD DRAWING

REVISION

BY	APVD
MAP	MJS

APVD MJS

STATE OF NEW YORK LICENSED PROFESSIONAL ENGINEER

03/31/20

NEW YORK STATE OF OPPORTUNITY. Department of Environmental Conservation

REMEDIAL ACTION
SARANAC LAKE GAS CO., INC.
SARANAC LAKE, NEW YORK
NYSDEC SITE NUMBER - 516008

MACTEC Engineering and Geology, P.C.
P.O. Box 7050, 1 Courtyard Street
Portland, Maine 04112-7050
(207) 775-5401

MACTEC

CIVIL

FINAL GRADE OF ISS AREA

VERIFY SCALE

BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"

DATE	JAN 2020
PROJ	3611-16-1193
DWG	C-209
SHEET	11 OF 11

FILE NAME: Z:\Projects\nysdec1\Saranac Lake\REC-C-209-FINAL GRADE- ISS AREA.dwg PLOT DATE: Fri, 13 Mar 2020 PLOT TIME: 3:05 PM

ATTACHMENT 2

LOCATION MAP
NOT TO SCALE

LEGEND

- Boundary Line
- Adjoiner Line
- Gravel Road
- Overhead wires
- Chainlink Fenceline
- Adjoiner Line
- Easement Area
- ISS Limits
- Final Cap
- Found iron pipe/rebar
- Set 5/8" capped rebar
- Calculated corner

TREE KEY

- Birch
- Cherry
- Hemlock
- Maple
- Pine
- Spruce

40 0 40 80 120
1 Inch = 40 Feet

Contour Interval: 1 Foot
Horizontal Datum: NAD 83
Vertical Datum: NAVD 88

MAP REFERENCES

1. See Map entitled "Map Showing Survey of Property for Adirondack Bottled Gas Corp." prepared by Magurk & Odone, PC, dated June 23, 1980.

NOTES

1. This survey was prepared without the benefit of an updated Abstract of Title and is subject to whatever facts an updated Abstract of Title may show.

ONLY COPIES FROM THE ORIGINAL OF THIS SURVEY MARKED WITH AN ORIGINAL OF THE LAND SURVEYOR'S EMBOSSED SEAL SHALL BE CONSIDERED TO BE VALID TRUE COPIES.

Certifications, if any, indicated hereon signify that this survey was prepared in accordance with the existing Code of Practice for Land Surveys adopted by the New York State Association of Professional Land Surveyors. Said certifications shall run only to the person for whom the survey is prepared, and on his behalf to the title company, governmental agency and lending institution listed hereon, and to the assignees of the lending institution. Certifications are not transferable to any additional institutions or subsequent owners.

GEOMATICS
land surveying, pc
STACEY L. ALLOTT, L.S.
P.O. BOX 1277 SARANAC LAKE, NY
518-891-6218 Phone
geomaticalspc@gmail.com www.geomatics.pro

MAP OF SURVEY showing Final Conditions
Saranac Lake Gas Company Remediation
PREPARED FOR
D.A. COLLINS ENVIRONMENTAL SERVICES, LLC

SITUATE IN LOT 12, TOWNSHIP 11, OLD MILITARY TRACT, VILLAGE OF SARANAC LAKE, TOWN OF NORTH ELBA, COUNTY OF ESSEX AND STATE OF NEW YORK.

REVISIONS / DATE / BY	
COPYRIGHT	2021
CHECKED BY	SLA
DRAWN BY	REL
DATE	SURVEY 06/08/22 MAP 11/03/22
SCALE	IN./FT. 1"=40' RATIO 1:480
TAX MAP NO.	32.231-1-11
MAP NO.	21007 Sheet 1 of 6

CADD File: 21007 SH1Of6 final conditions.dwg

LOCATION MAP
NOT TO SCALE

LEGEND

- Boundary Line
- Adjoiner Line
- Gravel Road
- Overhead wires
- Chainlink Fenceline
- Adjoiner Line
- Easement Area
- ISS Limits
- Final Cap
- Found iron pipe/rebar
- Set 5/8" capped rebar
- Calculated corner

GREGORY L. PEACOCK
Reputed Owner
L. 1366 pg. 73
Tax parcel 32.215-6-2

GREGORY L. PEACOCK
Reputed Owner
L. 1028 pg. 187
Tax parcel 32.215-6-3

GEORGE C. HUTTIG
Reputed Owner
L. 1364 pg. 275
Tax parcel 32.232-1-1

DEBORAH FOX
AUBREY FOX
Reputed Owner
L. 1920 pg. 128
Tax parcel 32.232-1-2

RANDOLPH SMITH. Jr.
LYNN LOUISE SMITH
Reputed Owner
L. 721 pg. 87
Tax parcel 32.232-1-5

Found 1 1/2" iron pipe 0.2' above grade, leaning Northerly

Found 1" iron pipe 0.1' above grade, leaning Westerly

ESSEX COUNTY
Reputed Owner
L. 1413 pg. 194
Tax parcel 32.232-1-15

JANICE M. GAUTHIER
Reputed Owner
L. 644 pg. 112
Tax parcel 32.232-1-6

Found 3/4" iron pipe 0.5' above grade, leaning

ROBERT OHMANN
MARY L. OHMANN
Reputed Owner
L. 656 pg. 120
Tax parcel 32.232-1-7

STEVEN P. SCHMIDT
MONICA D. SCHMIDT
Reputed Owner
L. 1972 pg. 210
Tax parcel 32.232-1-8

GEORGE E. PAYE III
Reputed Owner
L. 1794 pg. 120
Tax parcel 32.232-1-9

GEORGE E. PAYE III
Reputed Owner
L. 1794 pg. 120
Tax parcel 32.232-1-10

GEORGE E. PAYE III
Reputed Owner
L. 1794 pg. 120
Tax parcel 32.232-1-16

Capped rebar AEDA

PAYEVILLE ROAD

STATE OF NEW YORK
Reputed Owner
L. 1951 pg. 17
Tax parcel 32.247-4-1.2

SARANAC LAKE GAS CO INC.
Reputed Owner
L. 141 pg. 392
Tax parcel 32.231-1-11

COUNTY OF ESSEX
COUNTY OF FRANKLIN
Reputed Owner
L. 1143 pg. 217
Tax parcel 32.232-1-13

Capped rebar AEDA

Found 3/4" iron pipe 0.3' above grade

centerline of brook

edge of gravel

edge of topsoil

CP

EAST ZONE
N
N.Y.S. GRID NORTH

40 0 40 80 120
1 Inch = 40 Feet

Horizontal Datum: NAD 83
Vertical Datum: NAVD 88

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GEOMATICS
land surveying, pc
STACEY L. ALLOTT, L.S.
P.O. BOX 1277 SARANAC LAKE, NY
518-891-6218 Phone
geomaticslspc@gmail.com www.geomatics.pro

MAP OF SURVEY showing Final Cap Limits Location
Saranac Lake Gas Company Remediation
PREPARED FOR
D.A. COLLINS ENVIRONMENTAL SERVICES, LLC
SITUATE IN LOT 12, TOWNSHIP 11, OLD MILITARY TRACT, VILLAGE OF SARANAC LAKE, TOWN OF NORTH ELBA, COUNTY OF ESSEX AND STATE OF NEW YORK.

REVISIONS / DATE / BY	
COPYRIGHT	2021
CHECKED BY	SLA
DRAWN BY	REL
DATE	SURVEY 06/08/22 MAP 11/03/22
SCALE	IN./FT. 1"=40' RATIO 1:480
TAX MAP NO.	32.231-1-11
MAP NO.	21007 SHEET 2 of 6

CADD File: 21007 SH2of6 final cap.dwg

LOCATION MAP
NOT TO SCALE

LEGEND

- Boundary Line
- Adjoiner Line
- Gravel Road
- Overhead wires
- Chainlink Fenceline
- Adjoiner Line
- Easement Area
- ISS Limits Final Cap
- Found iron pipe/rebar
- Set 5/8" capped rebar
- Calculated corner

GREGORY L. PEACOCK
Reputed Owner
L. 1366 pg. 73
Tax parcel 32.215-6-2

GREGORY L. PEACOCK
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L. 1028 pg. 187
Tax parcel 32.215-6-3

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L. 1364 pg. 275
Tax parcel 32.232-1-1

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Found 1" iron pipe 0.1' above grade, leaning Westerly

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L. 656 pg. 120
Tax parcel 32.232-1-7

STEVEN P. SCHMIDT
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L. 1794 pg. 120
Tax parcel 32.232-1-9

GEORGE E. PAYE III
Reputed Owner
L. 1794 pg. 120
Tax parcel 32.232-1-10

GEORGE E. PAYE III
Reputed Owner
L. 1794 pg. 120
Tax parcel 32.232-1-16

Capped rebar AEDA

PAYEVILLE ROAD

centerline of brook

centerline of swale

1543

1544

12" CMP

edge of topsoil

final ISS limits

edge of gravel

gravel trail

STATE OF NEW YORK
Reputed Owner
L. 1951 pg. 17
Tax parcel 32.247-4-1.2

SARANAC LAKE GAS CO INC.
Reputed Owner
L. 141 pg. 392
Tax parcel 32.231-1-11

Capped rebar AEDA

Found 3/4" iron pipe 0.3' above grade

COUNTY OF ESSEX
COUNTY OF FRANKLIN
Reputed Owner
L. 1143 pg. 217
Tax parcel 32.232-1-13

EAST ZONE
N
N.Y.S. GRID NORTH

40 0 40 80 120
1 Inch = 40 Feet

Contour Interval: 1 Foot
Horizontal Datum: NAD 83
Vertical Datum: NAVD 88

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MAP OF SURVEY showing Final ISS Limits Location
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PREPARED FOR
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REVISIONS / DATE / BY	
COPYRIGHT	2021
CHECKED BY	SLA
DRAWN BY	REL
DATE	SURVEY 06/08/22 MAP 11/03/22
SCALE	IN./FT. 1"=40' RATIO 1:480
TAX MAP NO.	32.231-1-11
MAP NO.	21007 Sheet 3 of 6

CADD File: 21007 SH3of6 ISS.dwg

LOCATION MAP
NOT TO SCALE

LEGEND

Boundary Line	
Adjoiner Line	
Gravel Road	
Overhead wires	
Chainlink Fenceline	
Adjoiner Line	
Easement Area	
ISS Limits	
Final Cap	
Found iron pipe/rebar	●
Set 5/8" capped rebar	⊕
Calculated corner	○

GREGORY L. PEACOCK
Reputed Owner
L. 1366 pg. 73
Tax parcel 32.215-6-2

GREGORY L. PEACOCK
Reputed Owner
L. 1028 pg. 187
Tax parcel 32.215-6-3

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Tax parcel 32.232-1-1

DEBORAH FOX
AUBREY FOX
Reputed Owner
L. 1920 pg. 128
Tax parcel 32.232-1-2

RANDOLPH SMITH. Jr.
LYNN LOUISE SMITH
Reputed Owner
L. 721 pg. 87
Tax parcel 32.232-1-5

Found 1 1/2" iron pipe 0.2' above grade, leaning Northerly

Found 1" iron pipe 0.1' above grade, leaning Westerly

GRAVEL ROAD

ESSEX COUNTY
Reputed Owner
L. 1413 pg. 194
Tax parcel 32.232-1-15

Found 3/4" iron pipe 0.5' above grade, leaning

JANICE M. GAUTHIER
Reputed Owner
L. 644 pg. 112
Tax parcel 32.232-1-6

ROBERT OHMANN
MARY L. OHMANN
Reputed Owner
L. 656 pg. 120
Tax parcel 32.232-1-7

STEVEN P. SCHMIDT
MONICA D. SCHMIDT
Reputed Owner
L. 1972 pg. 210
Tax parcel 32.232-1-8

GEORGE E. PAYE III
Reputed Owner
L. 1794 pg. 120
Tax parcel 32.232-1-9

GEORGE E. PAYE III
Reputed Owner
L. 1794 pg. 120
Tax parcel 32.232-1-10

GEORGE E. PAYE III
Reputed Owner
L. 1794 pg. 120
Tax parcel 32.232-1-16

Capped rebar AEDA

PAYEVILLE ROAD

centerline of brook

centerline of swale

12" CMP

EXCAVATION AREA 2

ISS Limits

gravel trail

edge of gravel

ISS Limits

RxR EXCAVATION AREA 1

STATE OF NEW YORK
Reputed Owner
L. 1951 pg. 17
Tax parcel 32.247-4-1.2

SARANAC LAKE GAS CO INC.
Reputed Owner
L. 141 pg. 392
Tax parcel 32.231-1-11

Capped rebar AEDA

Found 3/4" iron pipe 0.3' above grade

COUNTY OF ESSEX
COUNTY OF FRANKLIN
Reputed Owner
L. 1143 pg. 217
Tax parcel 32.232-1-13

gravel trail

EAST ZONE
N
N.Y.S. GRID NORTH

40 0 40 80 120
1 Inch = 40 Feet

Horizontal Datum: NAD 83
Vertical Datum: NAVD 88

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GEOMATICS
land surveying, pc
STACEY L. ALLOTT, L.S.
P.O. BOX 1277 SARANAC LAKE, NY
518-891-6218 Phone
geomaticalspc@gmail.com www.geomatics.pro

MAP OF SURVEY showing Excavation Limits Location
Saranac Lake Gas Company Remediation
PREPARED FOR
D.A. COLLINS ENVIRONMENTAL SERVICES, LLC
SITUATE IN LOT 12, TOWNSHIP 11, OLD MILITARY TRACT, VILLAGE OF SARANAC LAKE, TOWN OF NORTH ELBA, COUNTY OF ESSEX AND STATE OF NEW YORK.

REVISIONS / DATE / BY	
COPYRIGHT	2021
CHECKED BY	SLA
DRAWN BY	REL
DATE	SURVEY 06/08/22 MAP 11/03/22
SCALE	IN./FT. 1"=40' RATIO 1:480
TAX MAP NO.	32.231-1-11
MAP NO.	21007 Sheet 4 of 6

CADD File: 21007 SH4of6 Excavation Limits.dwg

LOCATION MAP
NOT TO SCALE

LEGEND

Boundary Line	
Adjoiner Line	
Gravel Road	
Overhead wires	
Chainlink Fenceline	
Adjoiner Line	
Easement Area	
ISS Limits	
Final Cap	
Found iron pipe/rebar	●
Set 5/8" capped rebar	⊕
Calculated corner	○

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P.O. BOX 1277 SARANAC LAKE, NY
518-891-6218 Phone
geomaticslspc@gmail.com www.geomatics.pro

MAP OF SURVEY showing Fenceline Location
Saranac Lake Gas Company Remediation
PREPARED FOR
D.A. COLLINS ENVIRONMENTAL SERVICES, LLC
SITUATE IN LOT 12, TOWNSHIP 11, OLD MILITARY TRACT, VILLAGE OF SARANAC LAKE, TOWN OF NORTH ELBA, COUNTY OF ESSEX AND STATE OF NEW YORK.

REVISIONS / DATE / BY	
COPYRIGHT	2021
CHECKED BY	SLA
DRAWN BY	REL
DATE	SURVEY 06/08/22 MAP 11/03/22
SCALE	IN./FT. 1"=40' RATIO 1:480
TAX MAP NO.	32.231-1-11
MAP NO.	21007 Sheet 5 of 6

CADD File: 21007 SH5of6 fenceline.dwg

LOCATION MAP
NOT TO SCALE

LEGEND

Boundary Line	
Adjoiner Line	
Gravel Road	
Overhead wires	
Chainlink Fenceline	
Adjoiner Line	
Easement Area	
ISS Limits	
Final Cap	
Found iron pipe/rebar	●
Set 5/8" capped rebar	⊕
Calculated corner	○

GREGORY L. PEACOCK
Reputed Owner
L. 1366 pg. 73
Tax parcel 32.215-6-2

GREGORY L. PEACOCK
Reputed Owner
L. 1028 pg. 187
Tax parcel 32.215-6-3

GEORGE C. HUTTIG
Reputed Owner
L. 1364 pg. 275
Tax parcel 32.232-1-1

DEBORAH FOX
AUBREY FOX
Reputed Owner
L. 1920 pg. 128
Tax parcel 32.232-1-2

RANDOLPH SMITH. Jr.
LYNN LOUISE SMITH
Reputed Owner
L. 721 pg. 87
Tax parcel 32.232-1-5

Found 1 1/2" iron pipe 0.2' above grade, leaning Northerly

Found 1" iron pipe 0.1' above grade, leaning Westerly

PZ-PV1
piezometer
elev @ top=1548.12'

GRAVEL ROAD

ESSEX COUNTY
Reputed Owner
L. 1413 pg. 194
Tax parcel 32.232-1-15

centerline of brook

centerline of swale

12" CMP

MW-106R
monitoring well
elev @ top=1544.09'

edge of gravel

Found 3/4" iron pipe 0.5' above grade, leaning

JANICE M. GAUTHIER
Reputed Owner
L. 644 pg. 112
Tax parcel 32.232-1-6

ROBERT OHMANN
MARY L. OHMANN
Reputed Owner
L. 656 pg. 120
Tax parcel 32.232-1-7

MW-108R
monitoring well
elev @ top=1547.42'

STEVEN P. SCHMIDT
MONICA D. SCHMIDT
Reputed Owner
L. 1972 pg. 210
Tax parcel 32.232-1-8

PZ-PV2
piezometer
elev @ top=1546.87'

PAYEVILLE ROAD

MW-110R
monitoring well
elev @ top=1547.33'

GEORGE E. PAYE III
Reputed Owner
L. 1794 pg. 120
Tax parcel 32.232-1-9

GEORGE E. PAYE III
Reputed Owner
L. 1794 pg. 120
Tax parcel 32.232-1-10

STATE OF NEW YORK
Reputed Owner
L. 1951 pg. 17
Tax parcel 32.247-4-1.2

SARANAC LAKE GAS CO INC.
Reputed Owner
L. 141 pg. 392
Tax parcel 32.231-1-11

GEORGE E. PAYE III
Reputed Owner
L. 1794 pg. 120
Tax parcel 32.232-1-16

Capped rebar AEDA

MW-204D
monitoring well
elev @ top=1546.95'

Capped rebar AEDA

Found 3/4" iron pipe 0.3' above grade

COUNTY OF ESSEX
COUNTY OF FRANKLIN
Reputed Owner
L. 1143 pg. 217
Tax parcel 32.232-1-13

gravel trail

EAST ZONE
N
N.Y.S. GRID NORTH

40 0 40 80 120
1 Inch = 40 Feet

Horizontal Datum: NAD 83
Vertical Datum: NAVD 88

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P.O. BOX 1277 SARANAC LAKE, NY
518-891-6218 Phone
geomaticslspc@gmail.com www.geomatics.pro

MAP OF SURVEY showing Monitoring Wells Locations
Saranac Lake Gas Company Remediation

PREPARED FOR
D.A. COLLINS ENVIRONMENTAL SERVICES, LLC

SITUATE IN LOT 12, TOWNSHIP 11, OLD MILITARY TRACT, VILLAGE OF SARANAC LAKE, TOWN OF NORTH ELBA, COUNTY OF ESSEX AND STATE OF NEW YORK.

REVISIONS / DATE / BY	
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CHECKED BY	SLA
DRAWN BY	REL
DATE	SURVEY 06/08/22 MAP 11/03/22
SCALE	IN./FT. 1"=40' RATIO 1:480
TAX MAP NO.	32.231-1-11
MAP NO.	21007 Sheet 6 of 6

CADD File: 21007 SH6of6 mon wells.dwg

Appendix B

Figures

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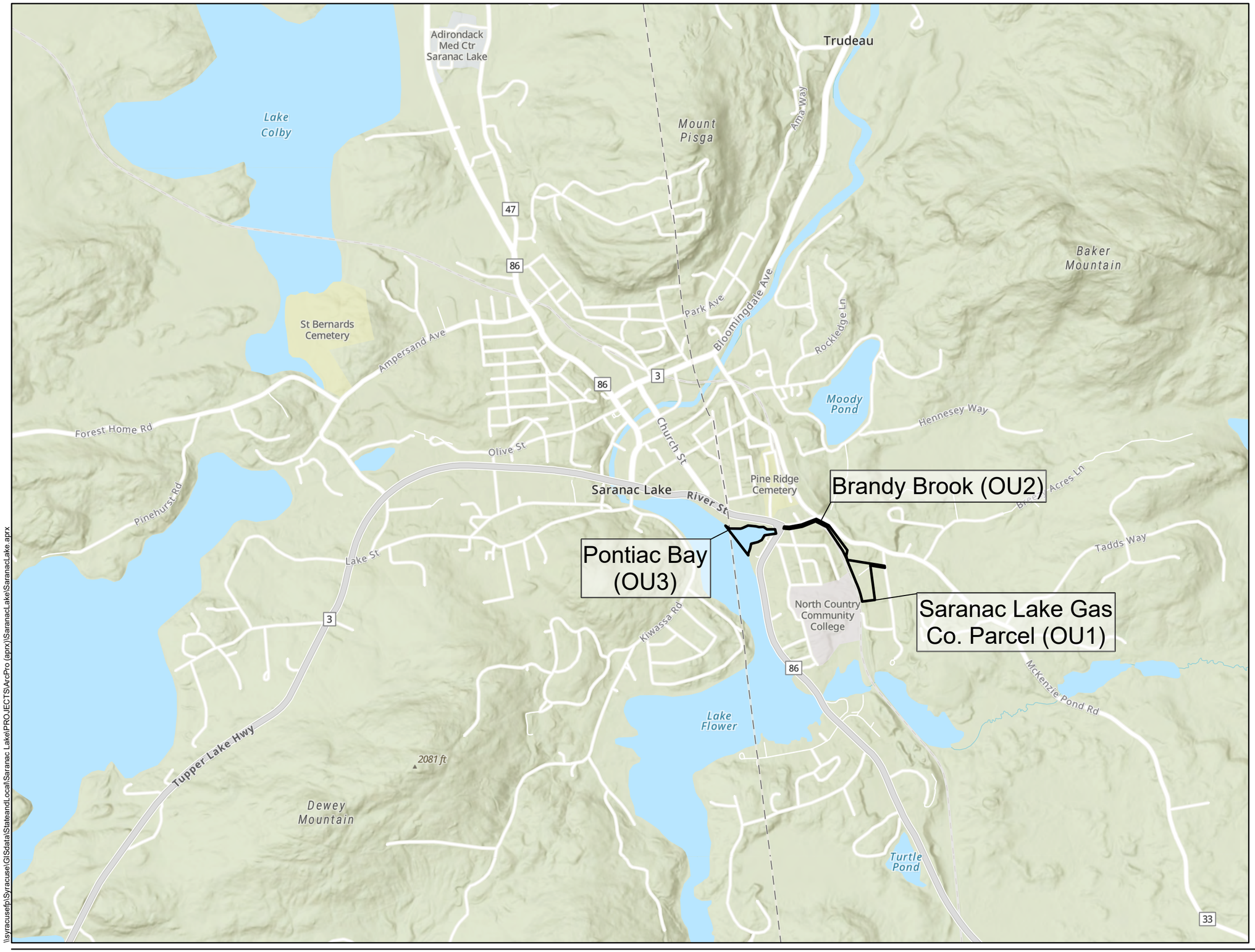
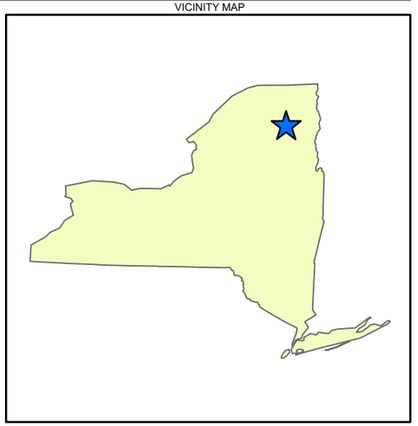


VICINITY MAP



Legend

★ Site Location

N

0 1,000 2,000

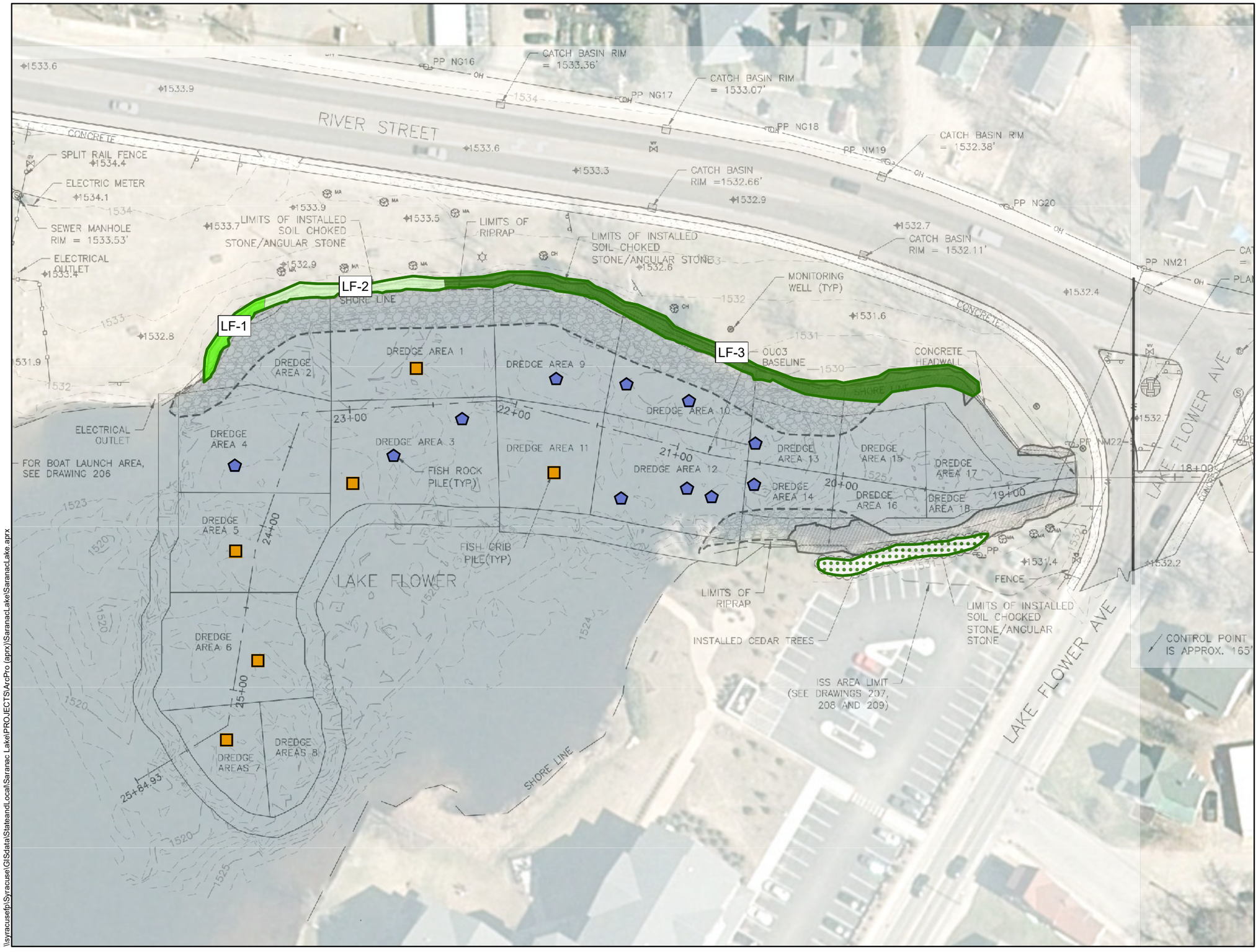
Feet

Map Date: 7/10/2023
Projection: NAD 1983 State Plane New York East
Source: WSP; ESRI

NEW YORK STATE | Department of Environmental Conservation

Figure 1
Site Vicinity Map
Saranac Lake Gas Co., Inc.
(NYSDEC Site No. 516008)
Saranac Lake, New York

\\syracusefp\Syracuse\GIS\data\StateandLocal\Saranac Lake\PROJECTS\ArcPro (aprx)\SaranacLake\SaranacLake.aprx



VICINITY MAP

Legend

Lake Flower Monitoring Areas
- LF-1
- LF-2
- LF-3
- Cedar Trees
- Approximate Vegetation Boundary
- Fish Crib
- Fish Rock Pile
- Site Location

N

0 50 100
Feet

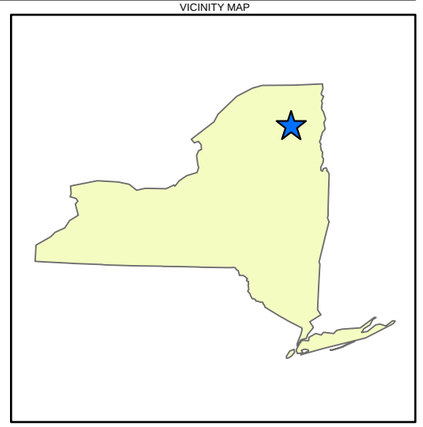
Map Date: 7/10/2023
Projection: NAD 1983 State Plane New York East
Source: WSP; ESRI

NEW YORK STATE Department of Environmental Conservation

Figure 2
Monitoring Areas and Data Collection Points - Pontiac Bay/Lake Flower
Saranac Lake Gas Co., Inc.
(NYSDEC Site No. 516008)
Saranac Lake, New York

\\syracusefp\Syracuse\GIS\data\StateandLocal\Saranac Lake\PROJECTS\ArcPro (aprx)\SaranacLake\SaranacLake.aprx

VICINITY MAP



Legend

Brandy Brook Monitoring Areas

- BB-1
- BB-2
- Gravelly/coarse sand material
- Approximate Upland Edge
- Restored Stream Channel
- Japanese Knotweed
- Site Location

0 50 100
Feet

Map Date: 7/19/2024
Projection: NAD 1983 State Plane New York East
Source: WSP; ESRI

NEW YORK STATE Department of Environmental Conservation

Figure 3
Monitoring Areas and Data Collection Points - Brandy Brook West
Saranac Lake Gas Co., Inc.
(NYSDEC Site No. 516008)
Saranac Lake, New York

\\Syracusefp\Syracuse\GIStata\StateandLocal\Saranac Lake\PROJECTS\ArcPro (aprx)\SaranacLake_Wetlands\SaranacLake_Wetlands.aprx

\\Syracusefp\Syracuse\GIStata\StateandLocal\Saranac Lake\PROJECTS\ArcPro (aprx)\SaranacLake_Wetlands\SaranacLake_Wetlands.aprx

VICINITY MAP

Legend

Brandy Brook Monitoring Areas

- BB-1
- BB-2
- Gravelly/coarse sand material
- Approximate Upland Edge
- Restored Stream Channel
- Japanese Knotweed
- Site Location

0 50 100
Feet

Map Date: 7/19/2024
Projection: NAD 1983 State Plane New York East
Source: WSP; ESRI

NEW YORK STATE Department of Environmental Conservation

Figure 3
Monitoring Areas and Data Collection Points - Brandy Brook West
Saranac Lake Gas Co., Inc.
(NYSDEC Site No. 516008)
Saranac Lake, New York

VICINITY MAP

Legend

Brandy Brook Monitoring Area and Wet Plots

- BB-2
- Wet-1
- Wet-2
- Saranac Lake Gas Co. Parcel
- Approximate Upland Edge
- Restored Stream Channel
- Approximate Wet Plot Sample Locations
- Site Location

N

0 50 100

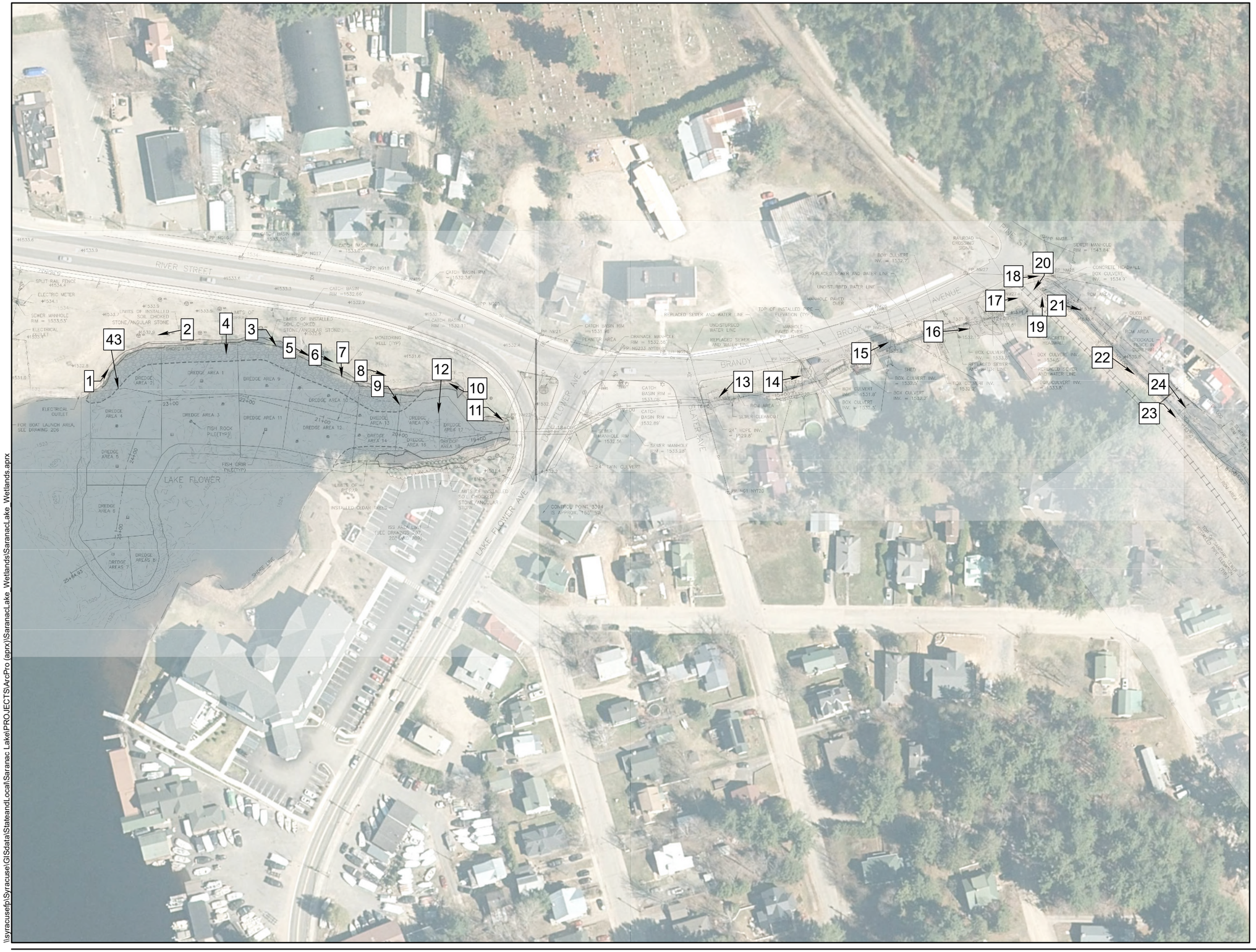
Feet

Map Date: 7/11/2023
Projection: NAD 1983 State Plane New York East
Source: WSP; ESRI

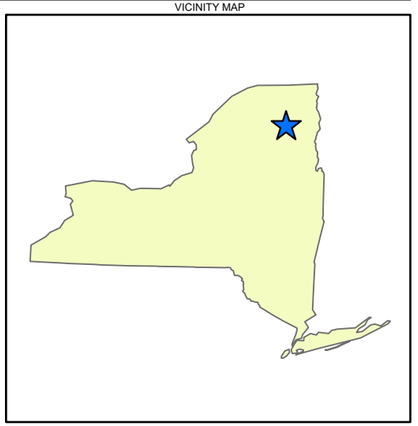
NEW YORK STATE Department of Environmental Conservation

Figure 4
Monitoring Areas and Data Collection Points - Brandy Brook East
Saranac Lake Gas Co., Inc.
(NYSDEC Site No. 516008)
Saranac Lake, New York

\\syracusefp\Syracuse\GIS\data\StateandLocal\Saranac Lake\PROJECTS\ArcPro (aprx)\SaranacLake\SaranacLake.aprx



VICINITY MAP



Legend

- Site Location
- 10 Photo Location/Direction

N

0 100 200

Feet

Note:
The photographs referenced on this figure are presented in the Saranac Lake 2023 Annual Wetlands Monitoring Report, Appendix D (Onsite Photos).

Map Date: 7/19/2024
Projection: NAD 1983 State Plane New York East
Source: WSP; ESRI

NEW YORK STATE Department of Environmental Conservation

Figure 5
Photograph Location Map #1
Saranac Lake Gas Co., Inc.
(NYSDEC Site No. 516008)
Saranac Lake, New York

\\syracusefp\Syracuse\GIS\data\StateandLocal\Saranac Lake\PROJECTS\ArcPro (aprx)\SaranacLake_Wetlands\SaranacLake_Wetlands.aprx

VICINITY MAP

Legend

- Site Location
- 25 Photo Location/Direction

N

0 75 150

Feet

Note:
The photographs referenced on this figure are presented in the Saranac Lake 2023 Annual Wetlands Monitoring Report, Appendix D (Onsite Photos).

Map Date: 7/19/2024
Projection: NAD 1983 State Plane New York East
Source: WSP; ESRI

NEW YORK STATE Department of Environmental Conservation

Figure 6
Photograph Location Map #2

Saranac Lake Gas Co., Inc.
(NYSDEC Site No. 516008)
Saranac Lake, New York

\\syracusefp\Syracuse\GIS\data\StateandLocal\Saranac Lake\PROJECTS\ArcPro (aprx)\SaranacLake_Wetlands\SaranacLake_Wetlands.aprx

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Appendix C

Wetland Data Sheets

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WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Saranac lake City/County: Saranac lake / essex county Sampling Date: 2024-06-24

Applicant/Owner: NYSDEC State: New York Sampling Point: Dpw1

Investigator(s): TMK Section, Township, Range: _____

Landform (hillslope, terrace, etc.): Floodplain Local relief (concave, convex, none): Concave Slope (%): 0

Subregion (LRR or MLRA): _____ Lat: 44.32211081 Long: -74.11838117 Datum: WGS 84

Soil Map Unit Name: _____ NWI classification: PEM

Are climatic / hydrologic conditions on the site typical for this time of year? Yes ✔ No _____ (If no, explain in Remarks.)

Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes ✔ No _____

Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes ✔	No _____	**Is the Sampled Area within a Wetland?** **Yes** ✔ **No** _____
Hydric Soil Present?	Yes ✔	No _____	If yes, optional Wetland Site ID: _____
Wetland Hydrology Present?	Yes ✔	No _____	

Remarks: (Explain alternative procedures here or in a separate report.)

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- ___ Surface Water (A1)
- ✔ High Water Table (A2)
- ✔ Saturation (A3)
- ___ Water Marks (B1)
- ___ Sediment Deposits (B2)
- ___ Drift Deposits (B3)
- ___ Algal Mat or Crust (B4)
- ___ Iron Deposits (B5)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Sparsely Vegetated Concave Surface (B8)
- ___ Water-Stained Leaves (B9)
- ___ Aquatic Fauna (B13)
- ___ Marl Deposits (B15)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres on Living Roots (C3)
- ✔ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ___ Surface Soil Cracks (B6)
- ✔ Drainage Patterns (B10)
- ___ Moss Trim Lines (B16)
- ___ Dry-Season Water Table (C2)
- ___ Crayfish Burrows (C8)
- ___ Saturation Vis ble on Aerial Imagery (C9)
- ___ Stunted or Stressed Plants (D1)
- ___ Geomorphic Position (D2)
- ___ Shallow Aquitard (D3)
- ___ Microtopographic Relief (D4)
- ✔ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present?	Yes _____	No ✔	Depth (inches): _____
Water Table Present?	Yes ✔	No _____	Depth (inches): 2
Saturation Present? (includes capillary fringe)	Yes ✔	No _____	Depth (inches): 0

Wetland Hydrology Present? **Yes** ✔ **No** _____

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

VEGETATION – Use scientific names of plants.

Sampling Point: Dpw1

Tree Stratum (Plot size: 30)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
5.			
6.			
7.			
	= Total Cover		
Sapling/Shrub Stratum (Plot size: 15)			
1. Alnus incana	5	✔	FACW
2.			
3.			
4.			
5.			
6.			
7.			
	5 = Total Cover		
Herb Stratum (Plot size: 5)			
1. Juncus effusus	15	✔	OBL
2. Typha latifolia	15	✔	OBL
3. Verbena hastata	15	✔	FACW
4. Eupatorium perfoliatum	10	✔	FACW
5. Carex lurida	10	✔	OBL
6. Carex vulpinoidea	10	✔	OBL
7. Impatiens capensis	10	✔	FACW
8. Solidago canadensis	10	✔	FACU
9. Lysimachia nummularia	5		FACW
10.			
11.			
12.			
	100 = Total Cover		
Woody Vine Stratum (Plot size: 30)			
1.			
2.			
3.			
4.			
	= Total Cover		

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 8 (A)

Total Number of Dominant Species Across All Strata: 9 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 88.88 (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	50	x 1 =	50
FACW species	45	x 2 =	90
FAC species	0	x 3 =	0
FACU species	10	x 4 =	40
UPL species	0	x 5 =	0
Column Totals:	105 (A)		180 (B)

Prevalence Index = B/A = 1.71

Hydrophytic Vegetation Indicators:

___ 1 - Rapid Test for Hydrophytic Vegetation

✔ 2 - Dominance Test is >50%

✔ 3 - Prevalence Index is ≤3.0[1]

___ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

___ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:

Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.

Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vines – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? **Yes** ✔ **No** ___

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point: Dpw1

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)	%	Redox Features Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0 - 4	10YR 2/2	100					Sandy Loam	
4 - 12	10YR 4/2	85	10YR 5/1	15	D	M	Sandy Loam	
12 - 16	10YR 5/2	90	10YR 5/1	10	D	M	Sandy Loam	
-								
-								
-								
-								
-								
-								
-								
-								
-								

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5)
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1)
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Dark Surface (S7) (**LRR R, MLRA 149B**)
- ___ Polyvalue Below Surface (S8) (**LRR R, MLRA 149B**)
- ___ Thin Dark Surface (S9) (**LRR R, MLRA 149B**)
- ___ Loamy Mucky Mineral (F1) (**LRR K, L**)
- ___ Loamy Gleyed Matrix (F2)
- ✔ Depleted Matrix (F3)
- ___ Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)

Indicators for Problematic Hydric Soils[3]:

- ___ 2 cm Muck (A10) (**LRR K, L, MLRA 149B**)
- ___ Coast Prairie Redox (A16) (**LRR K, L, R**)
- ___ 5 cm Mucky Peat or Peat (S3) (**LRR K, L, R**)
- ___ Dark Surface (S7) (**LRR K, L**)
- ___ Polyvalue Below Surface (S8) (**LRR K, L**)
- ___ Thin Dark Surface (S9) (**LRR K, L**)
- ___ Iron-Manganese Masses (F12) (**LRR K, L, R**)
- ___ Piedmont Floodplain Soils (F19) (**MLRA 149B**)
- ___ Mesic Spodic (TA6) (**MLRA 144A, 145, 149B**)
- ___ Red Parent Material (F21)
- ___ Very Shallow Dark Surface (TF12)
- ___ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? **Yes** ✔ **No** _____

Remarks:

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Saranac lake City/County: Saranac lake / essex county Sampling Date: 2024-06-24

Applicant/Owner: NYSDEC State: New York Sampling Point: Dpw2

Investigator(s): TMK Section, Township, Range: _____

Landform (hillslope, terrace, etc.): Floodplain Local relief (concave, convex, none): Concave Slope (%): 0

Subregion (LRR or MLRA): _____ Lat: 44.32122824 Long: -74.1178153 Datum: WGS 84

Soil Map Unit Name: _____ NWI classification: Pfo/pss

Are climatic / hydrologic conditions on the site typical for this time of year? Yes ✔ No _____ (If no, explain in Remarks.)

Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes ✔ No _____

Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes ✔	No _____	**Is the Sampled Area within a Wetland?** **Yes** ✔ **No** _____
Hydric Soil Present?	Yes ✔	No _____	If yes, optional Wetland Site ID: _____
Wetland Hydrology Present?	Yes ✔	No _____	

Remarks: (Explain alternative procedures here or in a separate report.)

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- ✔ Surface Water (A1)
- ✔ High Water Table (A2)
- ✔ Saturation (A3)
- ___ Water Marks (B1)
- ✔ Sediment Deposits (B2)
- ✔ Drift Deposits (B3)
- ___ Algal Mat or Crust (B4)
- ___ Iron Deposits (B5)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Sparsely Vegetated Concave Surface (B8)
- ___ Water-Stained Leaves (B9)
- ___ Aquatic Fauna (B13)
- ___ Marl Deposits (B15)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres on Living Roots (C3)
- ✔ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ✔ Surface Soil Cracks (B6)
- ✔ Drainage Patterns (B10)
- ___ Moss Trim Lines (B16)
- ___ Dry-Season Water Table (C2)
- ___ Crayfish Burrows (C8)
- ___ Saturation Vis ble on Aerial Imagery (C9)
- ___ Stunted or Stressed Plants (D1)
- ___ Geomorphic Position (D2)
- ___ Shallow Aquitard (D3)
- ___ Microtopographic Relief (D4)
- ✔ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present?	Yes ✔	No _____	Depth (inches): 2
Water Table Present?	Yes ✔	No _____	Depth (inches): 0
Saturation Present? (includes capillary fringe)	Yes ✔	No _____	Depth (inches): 0

Wetland Hydrology Present? **Yes** ✔ **No** _____

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

VEGETATION – Use scientific names of plants.

Sampling Point: Dpw2

Tree Stratum (Plot size: 30)	Absolute % Cover	Dominant Species?	Indicator Status
1. Acer rubrum	15	✔	FAC
2. Acer saccharinum	15	✔	FACW
3. Betula populifolia	10	✔	FAC
4.			
5.			
6.			
7.			
	40	= Total Cover	
Sapling/Shrub Stratum (Plot size: 15)			
1. Alnus incana	10	✔	FACW
2.			
3.			
4.			
5.			
6.			
7.			
	10	= Total Cover	
Herb Stratum (Plot size: 5)			
1. Carex scoparia	20	✔	FACW
2. Carex lurida	20	✔	OBL
3. Carex lupulina	15	✔	OBL
4. Carex vulpinoidea	15	✔	OBL
5. Juncus effusus	10		OBL
6. Verbena hastata	10		FACW
7. Solidago canadensis	5		FACU
8. Scirpus atrovirens	5		OBL
9.			
10.			
11.			
12.			
	100	= Total Cover	
Woody Vine Stratum (Plot size: 30)			
1.			
2.			
3.			
4.			
		= Total Cover	

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 8 (A)

Total Number of Dominant Species Across All Strata: 8 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 100.00 (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	65	x 1 =	65
FACW species	55	x 2 =	110
FAC species	25	x 3 =	75
FACU species	5	x 4 =	20
UPL species	0	x 5 =	0
Column Totals:	150 (A)		270 (B)

Prevalence Index = B/A = 1.80

Hydrophytic Vegetation Indicators:

___ 1 - Rapid Test for Hydrophytic Vegetation

✔ 2 - Dominance Test is >50%

✔ 3 - Prevalence Index is ≤3.0[1]

___ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

___ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:

Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.

Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vines – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? **Yes** ✔ **No** ___

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point: Dpw2

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)	Matrix %	Redox Features Color (moist)	Redox Features %	Type[1]	Loc[2]	Texture	Remarks
0 - 2	10YR 3/1	100					Loamy Sand	
2 - 16	10YR 4/2	90	10YR 5/2	10	D	M	Loamy Sand	
-								
-								
-								
-								
-								
-								
-								
-								
-								
-								

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5)
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1)
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Dark Surface (S7) (**LRR R, MLRA 149B**)
- ___ Polyvalue Below Surface (S8) (**LRR R, MLRA 149B**)
- ___ Thin Dark Surface (S9) (**LRR R, MLRA 149B**)
- ___ Loamy Mucky Mineral (F1) (**LRR K, L**)
- ___ Loamy Gleyed Matrix (F2)
- ✔ Depleted Matrix (F3)
- ___ Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)

Indicators for Problematic Hydric Soils[3]:

- ___ 2 cm Muck (A10) (**LRR K, L, MLRA 149B**)
- ___ Coast Prairie Redox (A16) (**LRR K, L, R**)
- ___ 5 cm Mucky Peat or Peat (S3) (**LRR K, L, R**)
- ___ Dark Surface (S7) (**LRR K, L**)
- ___ Polyvalue Below Surface (S8) (**LRR K, L**)
- ___ Thin Dark Surface (S9) (**LRR K, L**)
- ___ Iron-Manganese Masses (F12) (**LRR K, L, R**)
- ___ Piedmont Floodplain Soils (F19) (**MLRA 149B**)
- ___ Mesic Spodic (TA6) (**MLRA 144A, 145, 149B**)
- ___ Red Parent Material (F21)
- ___ Very Shallow Dark Surface (TF12)
- ___ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? **Yes** ✔ **No** _____

Remarks:

Appendix D

On-Site Photographs

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On-site Photographs
Saranac Lake Gas Co., Annual Monitoring – 2024
Photos Taken June 24, 2024

Photograph 1: Lack of woody vegetation along the bank in Monitoring Area LF-1.

Photograph 2: Overview of Monitoring Areas LF-1 and LF-2.

Photograph 3: Surviving live stakes observed at the transition from Monitoring Area LF-2 and LF-3.

Photograph 4: Dead live stakes observed within Monitoring Area LF-2.

On-site Photographs
Saranac Lake Gas Co., Annual Monitoring – 2024
Photos Taken June 24, 2024

Photograph 5: Signs of wildlife browsing on live stakes planted within Monitoring Area LF-3.

Photograph 6: Beaver activity observed on trees along the banks within Monitoring Area LF-3.

Photograph 7: Successful live stakes along the banks within Monitoring Area LF-3.

Photograph 8: Mature trees along the banks within Monitoring Area LF-3.

On-site Photographs
Saranac Lake Gas Co., Annual Monitoring – 2024
Photos Taken June 24, 2024

Photograph 9: Live stakes successfully growing under mature trees within Monitoring Area LF-3.

Photograph 10: Vegetated and stable banks within Monitoring Area LF-3.

Photograph 11: Existing woody shrubs along the banks within Monitoring Area LF-3.

Photograph 12: Cedar Planting Area on the South bank of Lake Flower.

On-site Photographs
Saranac Lake Gas Co., Annual Monitoring – 2024
Photos Taken June 24, 2024

Photograph 13: Rip rap bank and partially vegetated areas at the northwestern portion of Brandy Brook.

Photograph 14: View of well vegetated stream banks, facing upstream along Brandy Brook.

Photograph 15: View facing upstream of Brandy Brook along Brandy Brook Avenue.

Photograph 16: View facing upstream of the eastern portion of Monitoring Area BB-1.

On-site Photographs
Saranac Lake Gas Co., Annual Monitoring – 2024
Photos Taken June 24, 2024

Photograph 17: Easternmost portion of Monitoring Area BB-1.

Photograph 18: Area of street runoff along the top of banks of Brandy Brook at the northern portion of BB-2.

Photograph 19: Rip-rap slope of Brandy Brook at the northern end of BB-2 along Brandy Brook Avenue.

Photograph 20: Area of concern at historic culvert on the northern end of Monitoring Area BB-2.

On-site Photographs
Saranac Lake Gas Co., Annual Monitoring – 2024
Photos Taken June 24, 2024

Photograph 21: View facing upstream of Brandy Brook, withing Monitoring area BB-2.

Photograph 22: View facing upstream of Brandy Brook, withing Monitoring area BB-2.

Photograph 23: Area of previously identified and treaded invasive species (Japanese knotweed).

Photograph 24: Partially submerged stable drop log structure observed along Brandy Brook within

On-site Photographs
Saranac Lake Gas Co., Annual Monitoring – 2024
Photos Taken June 24, 2024

Photograph 25: View of stable stream channel bank with core log structure along Area BB-2.

Photograph 26: Submerged stable rock vane structure within Brandy Brook within Monitoring Area BB-2.

Photograph 27: Well vegetated and stable stream banks of Brank Brook within Area BB-2.

Photograph 28: Restored emergent wetland area identified at Monitoring Area Wet-1.

On-site Photographs
Saranac Lake Gas Co., Annual Monitoring – 2024
Photos Taken June 24, 2024

Photograph 29: View facing south from Monitoring Area Wet-1.

Photograph 30: saturated soils identified within the soil sample at Monitoring Area Wet-1.

Photograph 31: Groundwater identified within soil sample pit at Monitoring Area Wet-1.

Photograph 32: Large alder shrubs located within Monitoring Area Wet-1.

On-site Photographs
Saranac Lake Gas Co., Annual Monitoring – 2024
Photos Taken June 24, 2024

Photograph 33: Southern portion of Brandy Brook between wetland areas Wet-1 and Wet-2.

Photograph 34: Restored stream channel within Monitoring Area Wet-2.

Photograph 35: Submerged drop log structure within the restored stream channel within Monitoring Area Wet-2.

Photograph 36: 2023 planted trees within Monitoring Area Wet-2.

On-site Photographs
Saranac Lake Gas Co., Annual Monitoring – 2024
Photos Taken June 24, 2024

Photograph 37: Overview of Monitoring Area Wet-2.

Photograph 38: Restored stream channel within Monitoring Area Wet-2.

Photograph 39: 2023 tire rut areas now revegetated within the area of Wet-2.

Photograph 40: Sandy soils with redox features observed within Monitoring Area Wet-2.

On-site Photographs
Saranac Lake Gas Co., Annual Monitoring – 2024
Photos Taken June 24, 2024

Photograph 41: Saturated wetland soils within Wet-2.

Photograph 42: 2023 planted tree within Wet-2 with tree staking.

Photograph 43: Submerged aquatic vegetation observed in the open water area of LF-1.

Photograph 44: Green frog observed in the area of Wet-2.

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