

**FINAL
ENGINEERING
REPORT**

**Former Jones & Laughlin Site 18-Acre Site
Site No. E645029**

**Town of Clifton
St. Lawrence County, New York**

**Prepared for:
St. Lawrence County
48 Court Street
Canton, New York**

**Prepared by:
CDM Smith
11 British American Blvd.
Latham, New York**

June 2014



CERTIFICATIONS

I, John P. Blaum, am currently a registered professional engineer licensed by the State of New York, I had primary direct responsibility for implementation of the remedial program activities, and I certify that the Remedial Action was implemented and that all remedial activities were completed in substantial conformance with the Department-approved Remedial Action.

I certify that the data submitted to the Department with the Remedial Investigation Report demonstrates that the remediation requirements set forth in the Record of Decision and in all applicable statutes and regulations have been or will be achieved in accordance with the time frames, if any, established in for the remedy.

I certify that all use restrictions, Institutional Controls, Engineering Controls, and/or any operation and maintenance requirements applicable to the Site are contained in an environmental easement created and recorded pursuant ECL 71-3605 and that all affected local governments, as defined in ECL 71-3603, have been notified that such easement has been recorded.

I certify that a Site Management Plan has been submitted for the continual and proper operation, maintenance, and monitoring of all Engineering Controls employed at the Site, including the proper maintenance of all remaining monitoring wells, and that such plan has been approved by Department.

I certify that all documents generated in support of this report have been submitted in accordance with the DER's electronic submission protocols and have been accepted by the Department.

I certify that all data generated in support of this report have been submitted in accordance with the Department's electronic data deliverable and have been accepted by the Department.

I certify that all information and statements in this certification form are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law. I, John P. Blaum of CDM Smith, 11 British American Boulevard, Latham, New York, am certifying as Owner's Designated Site Representative for the site.

085079
NYS Professional Engineer #

6-6-14
Date

John P. Blaum
Signature



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Section 1

Background and Site Description

1.1 Background

Camp Dresser McKee & Smith (CDM Smith) has prepared this Final Engineering Report (FER) on behalf of St. Lawrence County (County) for the former J&L Benson Mine Site – 18-acre Site (herein referred to as the Site) under the State of New York's Environmental Restoration Program (ERP). The Site location is presented on Figure 1-1 and Figure 1-2 and shows the overall Site Plan.

This document is required as an element of the remedial program under the New York State Inactive Hazardous Waste Disposal Site Remedial Program administered by the New York State Department of Environmental Conservation (NYSDEC), site number E645029. The Site is being addressed in accordance with the NYSDEC Record of Decision (ROD), Site No. E645029, dated March 2013.

The County entered into a State Assistance Contract (SAC) with the NYSDEC to investigate and remediate, as appropriate, potential areas of environmental concern associated with the Site under the ERP guidelines. A Final Site Investigation (SI) Report presenting the findings of the SI was submitted to the NYSDEC and the New York State Department of Health (NYSDOH) in January 2012 and was approved by the NYSDEC on January 15, 2013 subject to minor modifications. A Final Alternatives Analysis Report (AAR) was developed based on the findings of the SI and was submitted to the NYSDEC and approved in April 2013.

This FER was prepared in accordance with the requirements in NYSDEC DER-10 Technical Guidance for Site Investigation and Remediation, dated May 2010, and the guidelines provided by NYSDEC. The site was remediated to industrial use.

1.2 Site Description

The Site consists of three Areas of Concern (AOC) totaling 18-acres of industrially-zoned land located at the intersection of New York State Route 3 (Route 3) and County Route 60 (CR 60) in the Town of Clifton, New York. The AOCs are identified as AOC A, B, and C, and are described below.

- AOC A is approximately 5.8-acres in size and is located north/north west of the intersection of Route 3 and CR 60. The area is primarily flat and consists of the former parking lot, the former vehicle wash station, and some tailings pile.
- AOC B is approximately 6.34-acres in size and is south of the intersection between Route 3 and CR 60. This area consists primarily of a wooded area with a large tailings pile from previous mining operations occupying about one-third of the southern portion of this AOC and slopes significantly from south to north. It is also reported to consist of a former construction camp that is no longer standing, but was identified from historical photos and a partially buried concrete structure. Some of the building slab was identified during this site investigation.
- AOC C is approximately 5.86-acres in size and located east of the intersection of Route 3 and CR 60. This area consists of an active electrical substation, overhead power lines, a stretch of concrete

road (which was formally old State Route 3), and a pond. The Little River also flows across the eastern corner of this AOC.

The boundaries of the Site are fully described in Appendix A, Metes and Bound Survey Map prepared in accordance with the requirements of the Environmental Easement.

Section 2

Summary of Selected Site Remedy

2.1 Remedial Action Objectives

The objectives of the remedial program have been established through the remedy selection process stated in 6 NYCRR Part 375. The goal for the remedial program is to restore the site to pre-disposal conditions to the extent feasible. At a minimum, the remedy shall eliminate or mitigate all significant threats to the public health and the environment presented by the contamination identified at the site through the proper application of scientific and engineering principles.

The remedial action objectives for this site are;

- Groundwater; Public Health Protection – prevent ingestion of groundwater with contaminant levels exceeding drinking water standards.
- Soil – RAOs for Public Health Protection – Prevent ingestion/direct contact with contaminated soil.

2.2 Description of Selected Remedy

The selected remedy for this Site is referred to as Site Management Remedy. The findings of the investigation of the Site indicate that the Site does not pose a threat to human health or the environment. The remedy is effective in protecting human health and the environment and complies with NYS standards, criteria and guidance. No action is required beyond the site controls discussed in the following sections.

2.2.1 Site Cover

A site cover currently exists at the site and will be maintained to allow for commercial/industrial use. Any site redevelopment will maintain a site cover that will consist of building structures, pavement, sidewalks or soil cover. Where soil cover is required, a minimum of one foot of soil shall be placed.

2.2.2 Institutional Controls

Institutional controls are in the form of an Environmental Easement for the Site and require the following;

- Remedial party or site owner to complete and submit a Periodic Review Report (PRR) to the Department ensuring that the institutional and/or engineering controls remain in place and are effective.
- Limit site development to commercial and industrial use.
- Preparation of an Excavation Plan for review and approval by the department prior to any excavation at the Site.
- Description of the environmental easement including any land or groundwater use restrictions.

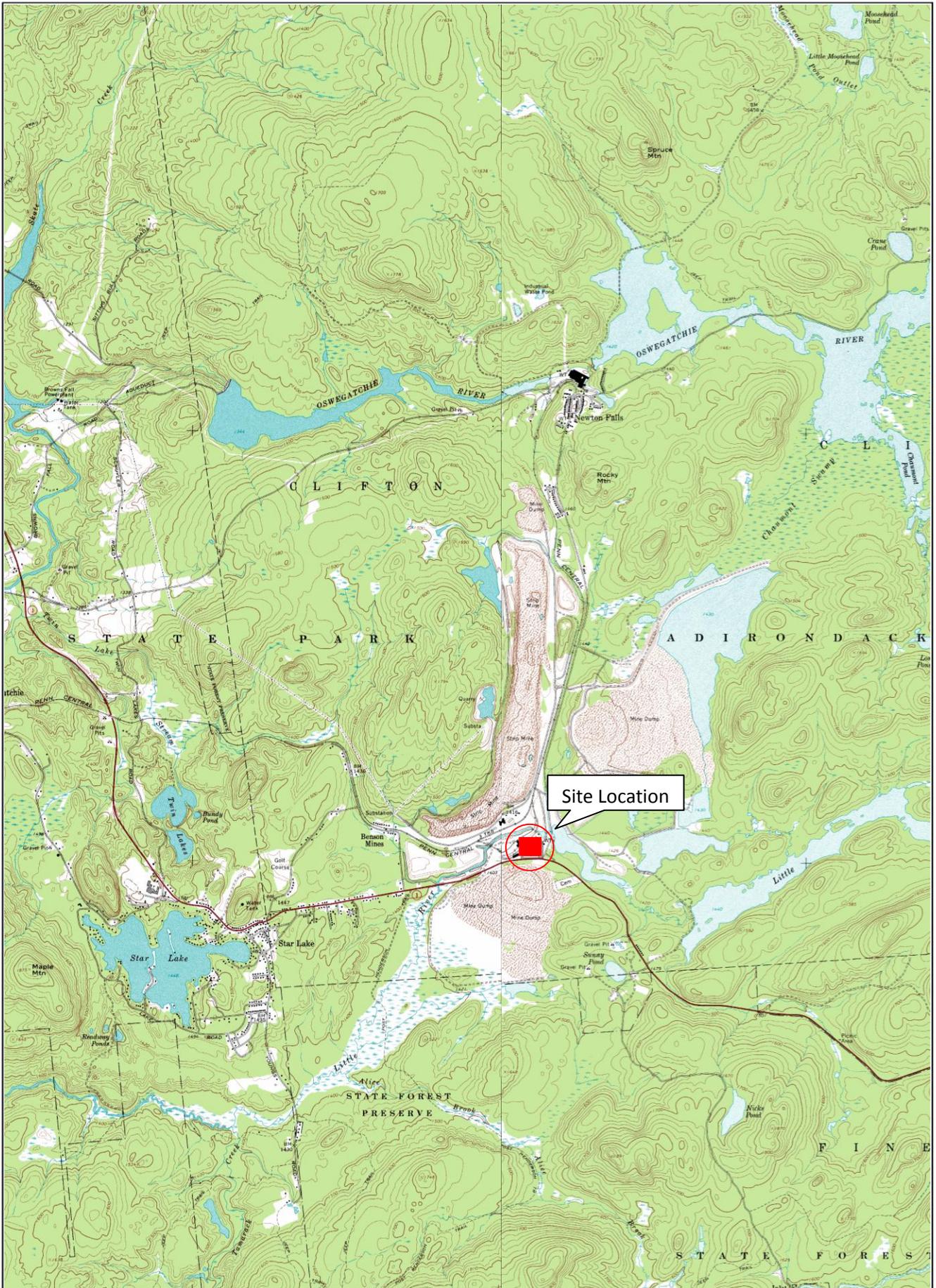
2.2.3 Site Management Plan

A Site Management Plan (SMP) has been developed and approved by the Department and will be implemented for long term management of remaining contamination as required by the Environmental Easement through institutional controls listed in Section 2.2.2.

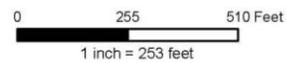
Section 3

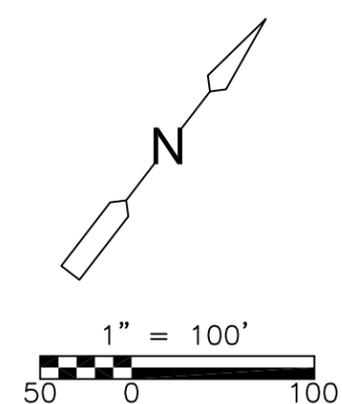
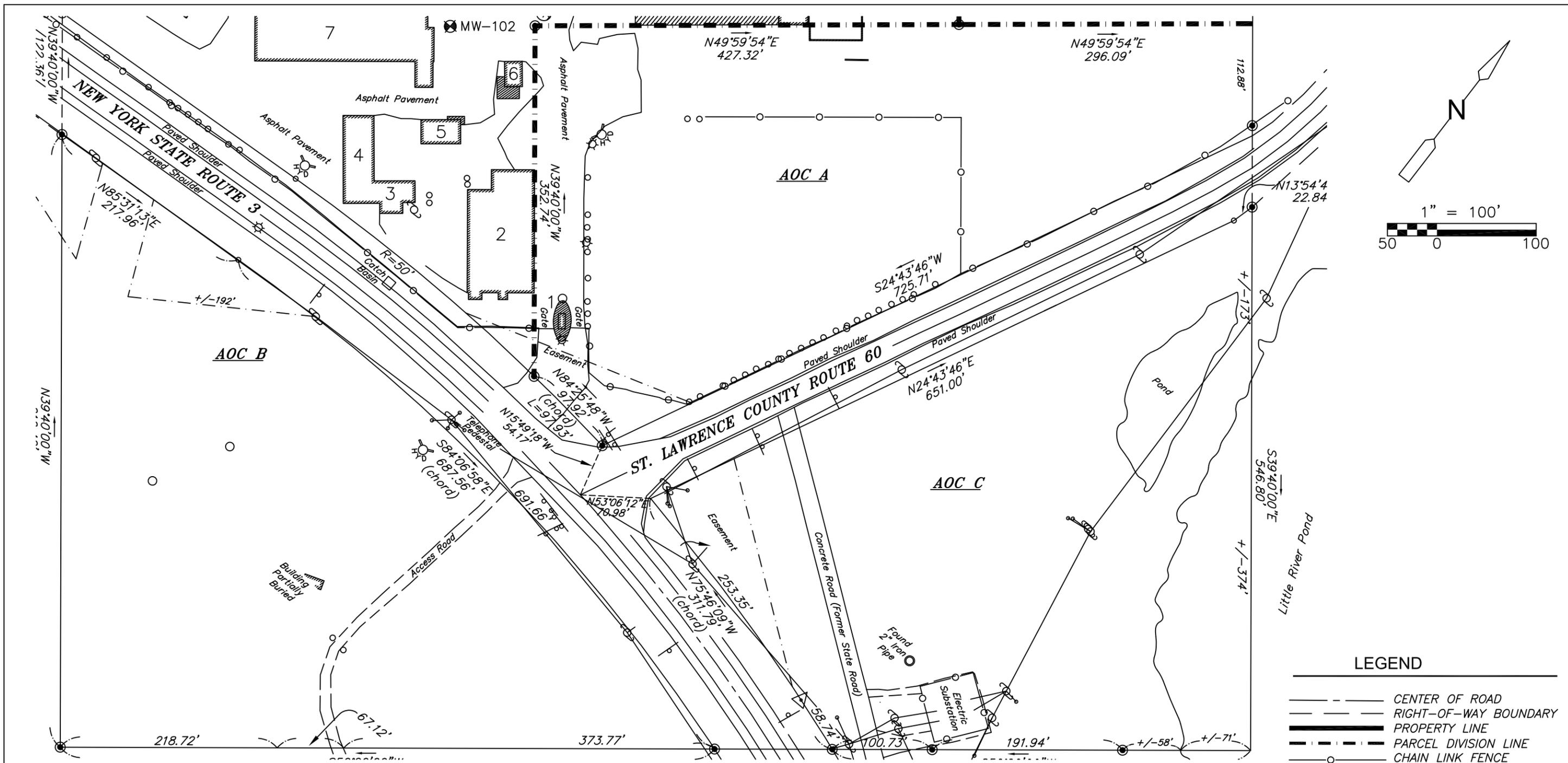
Interim Remedial Measures, Operable Units and Remedial Contracts

The remedy for this Site was performed as a single project and no interim remedial measures, operable units or separate construction contracts were performed.



St. Lawrence County, New York
 Site Location Plan
 Figure 1-1





LEGEND

	CENTER OF ROAD
	RIGHT-OF-WAY BOUNDARY
	PROPERTY LINE
	PARCEL DIVISION LINE
	CHAIN LINK FENCE
	EDGE OF BUILDING
	EDGE OF GRAVEL SURFACE
	SHORE OR EDGE OF WATER
	UTILITY LINE AND POLE

NOTES:

- 1) North arrow and bearings shown hereon are based on New York State Grid North as determined by GPS observations in June 2000.
- 2) Horizontal datum is NAD83 New York State Plane East Zone. Vertical datum is NAVD88.

