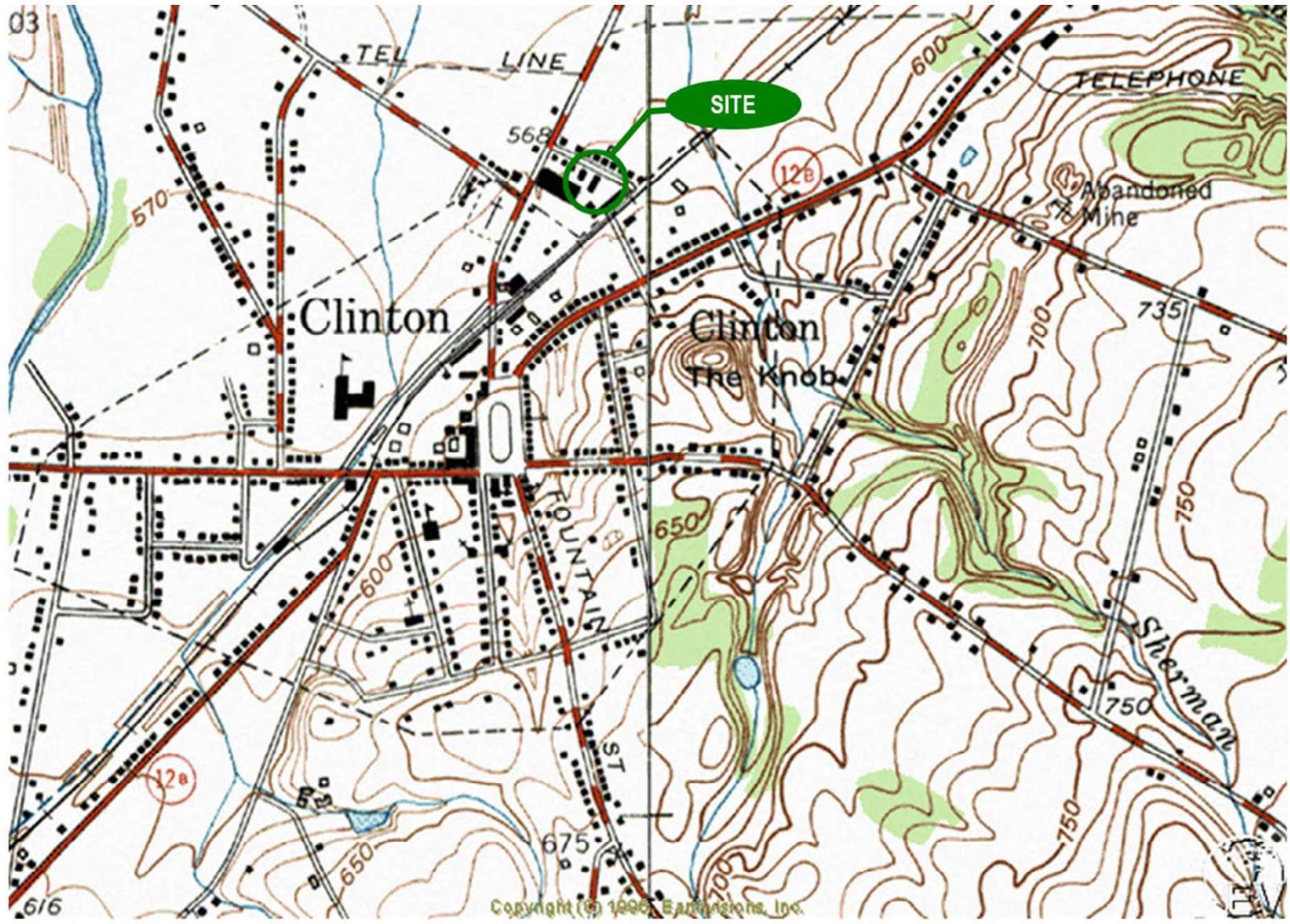


# Figures



Source: United States Geological Survey  
7.5 minute Topographic Series, 1980.





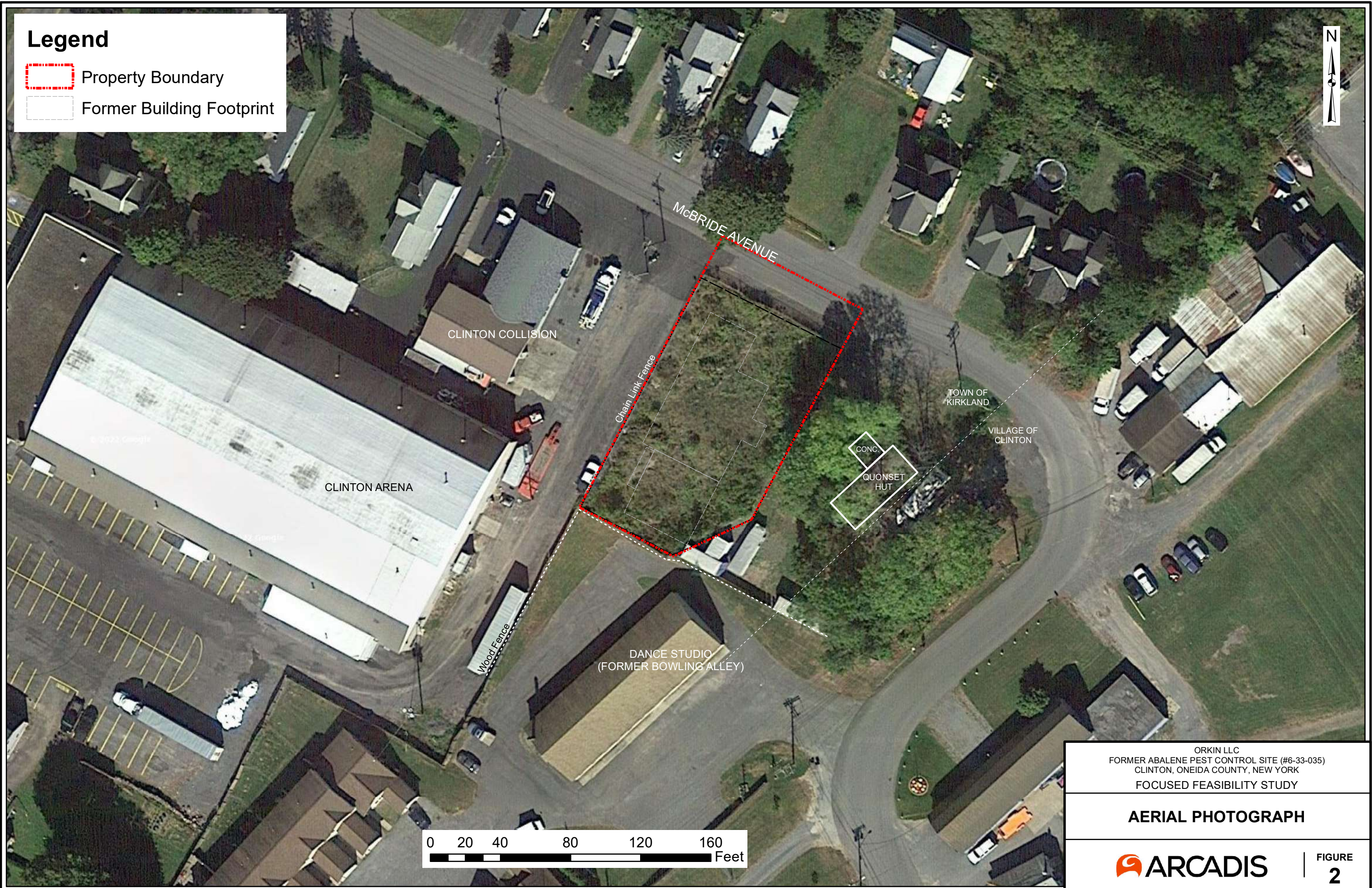
ORKIN LLC  
FORMER ABALENE PEST CONTROL SITE  
CLINTON, NEW YORK  
FOCUSED FEASIBILITY STUDY

SITE LOCATION



### Legend

-  Property Boundary
-  Former Building Footprint

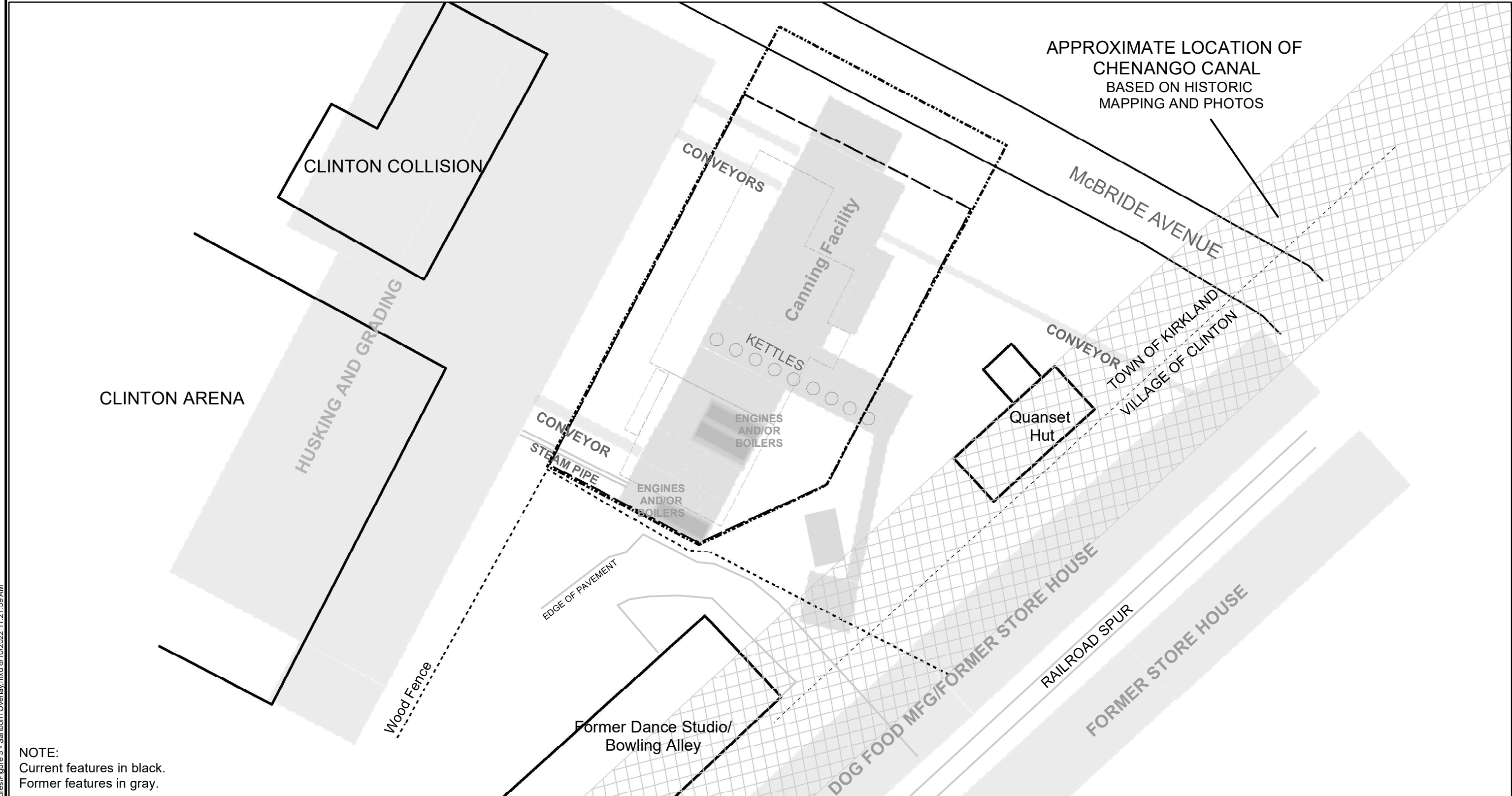


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**AERIAL PHOTOGRAPH**

 **ARCADIS** | **FIGURE 2**





APPROXIMATE LOCATION OF  
CHENANGO CANAL  
BASED ON HISTORIC  
MAPPING AND PHOTOS

CLINTON COLLISION

McBRIDE AVENUE

CLINTON ARENA

HUSKING AND GRADING

CONVEYORS

Canning Facility

KETTLES

ENGINES  
AND/OR  
BOILERS

Quanset  
Hut

CONVEYOR  
STEAM PIPE

ENGINES  
AND/OR  
BOILERS

EDGE OF PAVEMENT

Wood Fence

Former Dance Studio/  
Bowling Alley

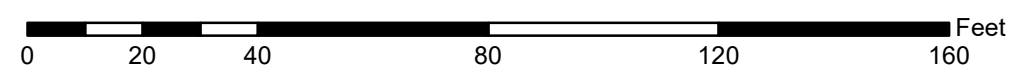
DOG FOOD MFG/FORMER STORE HOUSE

RAILROAD SPUR

FORMER STORE HOUSE

CONVEYOR  
TOWN OF KIRKLAND  
VILLAGE OF CLINTON

NOTE:  
Current features in black.  
Former features in gray.

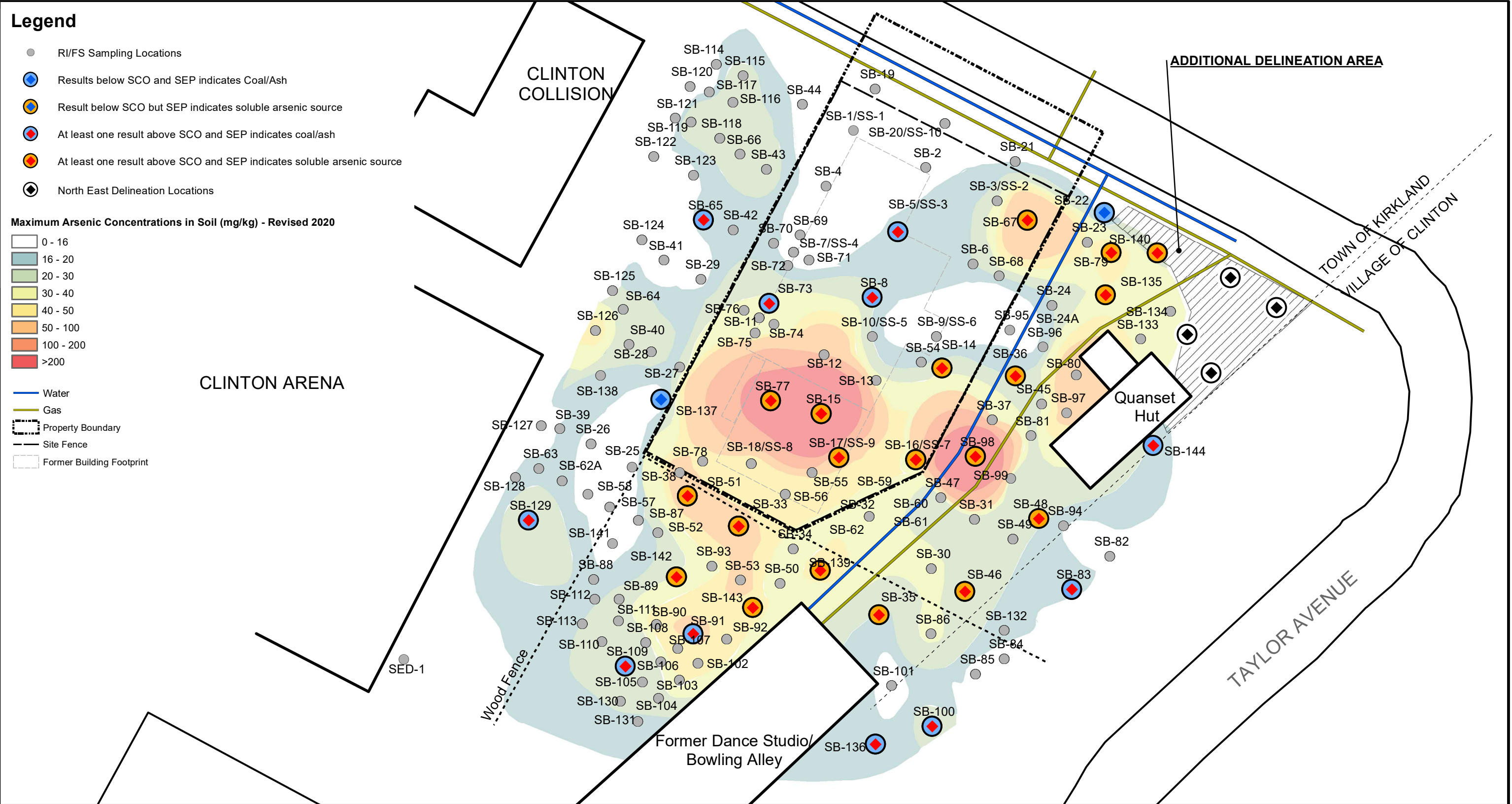


- Legend**
- Property Boundary
  - Site Fence
  - Former Bldg Footprint

ORKIN LLC FORMER ABALENE PEST CONTROL SITE (#6-33-035) CLINTON, ONEIDA COUNTY, NEW YORK <b>FOCUSED FEASIBILITY STUDY</b>	
<b>SANBORN MAP OVERLAY</b> <b>1923/1941 COMPOSITE</b>	
	FIGURE <b>3</b>

City: Clifton Park Div/Group: ENV Created By: D.Giroux Last Saved By: kfaris  
 Project: 30001800  
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Date: 9/6/2022



**NOTE:**  
 Current features in black.  
 Former features in gray.  
 Arsenic Soil Cleanup Objectives (SCO) (mg/kg)  
 Unrestricted Use SCO = 13  
 Residential/Commercial/Protection of Groundwater SCO = 16  
 SEP - Sequential Extraction Procedure  
 Fraction of arsenic concentrations in 1st and 2nd Sequential greater than 35% indicative of soluble source (potential arsenical pesticide/herbicide presence)  
 2020 Analytical results at soil borings SB-26 and SB-141 were below Residential/Commercial SCOs, and were not evaluated by SEP. Samples collected at SB-138 were not evaluated by SEP because site impacts delineated by SB-137 results.

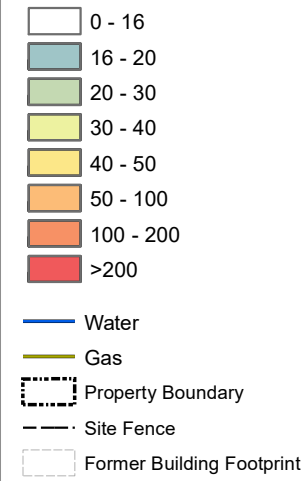
ORKIN LLC FORMER ABALONE PEST CONTROL SITE (#6-33-035) CLINTON, ONEIDA COUNTY, NEW YORK <b>FOCUSED FEASIBILITY STUDY</b>	
<b>REMEDIAL AND FORENSIC INVESTIGATION          SAMPLE LOCATIONS</b>	
	FIGURE <b>4</b>



# Legend

- RI/FS Sampling Locations
- Results below SCO and SEP indicates coal/ash
- Result below SCO and SEP indicates soluble arsenic source
- At least one result above SCO and SEP indicates coal/ash
- At least one result above SCO and SEP indicates soluble arsenic source

## Maximum Arsenic Concentrations in Soil (mg/kg) - Revised 2020

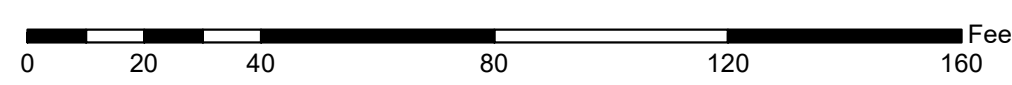


CLINTON ARENA

CLINTON COLLISION

Quanset Hut

Former Dance Studio/Bowling Alley



**NOTE:**  
 Arsenic Soil Cleanup Objectives (SCO) (mg/kg)  
 Unrestricted Use SCO = 13 (mg/kg)  
 Residential/Commercial/Protection of Groundwater SCO = 16 (mg/kg)  
 SEP - Sequential Extraction Procedure  
 Fraction of arsenic concentrations in 1st and 2nd Sequential greater than 35% indicative of soluble source (potential arsenical pesticide/herbicide presence)  
 2020 Analytical results at soil borings SB-26 and SB-141 were below Residential/Commercial SCOs, and were not evaluated by SEP.  
 Samples collected at SB-138 were not evaluated by SEP because site impacts delineated by SB-137 results.  
 RI/FS = Remedial Investigation/Feasibility Study  
 mg/kg = milligrams per kilogram  
 As = Arsenic

Samples collected in 2018 (grey)

Depth	[As]	SEP%
0.5-1.5	147	55%
1.5-2.5	74	57%
2.5-3.5	39.1	61%

Percent of As eluted in the first and second extraction steps. Red highlight exceeds 35% threshold.

Bolded box indicate location not vertically delineated by SEP.

- Yellow highlight: Concentration exceeds corresponding 6 NYCRR Part 375 Commercial Soil Cleanup Objective.
- Blue highlight: Concentration exceeds corresponding 6 NYCRR Part 375 Unrestricted Use Soil Cleanup Objective.

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 CLINTON, ONEIDA COUNTY, NEW YORK  
**FOCUSED FEASIBILITY STUDY**

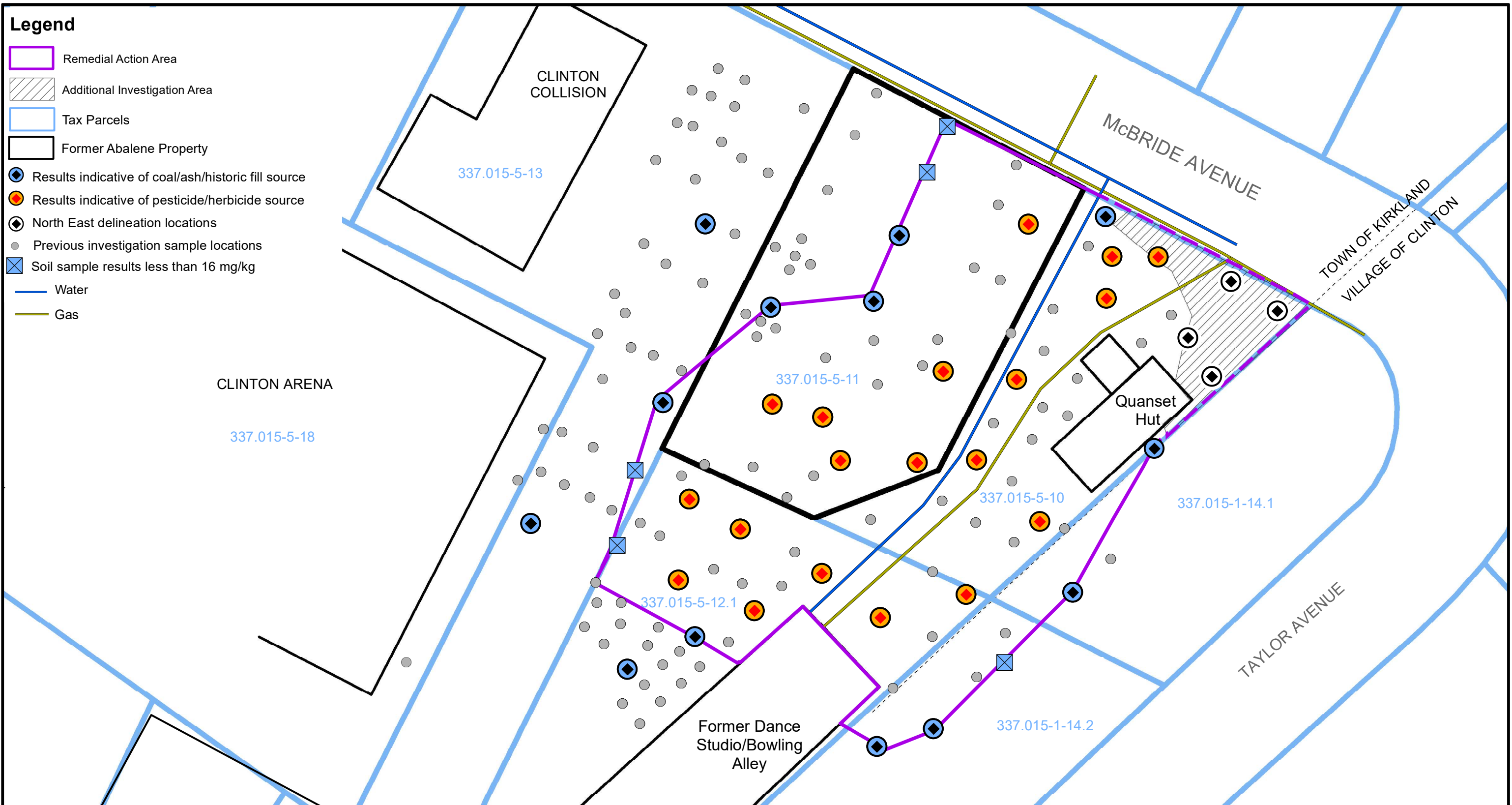
**2018-2020 SEP RESULTS**

ARCADIS

FIGURE 5

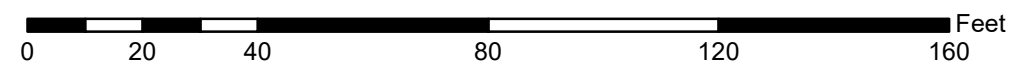
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 Date: 9/15/2022

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Date: 9/6/2022



### Legend

- Remedial Action Area
- Additional Investigation Area
- Tax Parcels
- Former Abalene Property
- Results indicative of coal/ash/historic fill source
- Results indicative of pesticide/herbicide source
- North East delineation locations
- Previous investigation sample locations
- Soil sample results less than 16 mg/kg
- Water
- Gas



NOTE:  
Current features in black.  
Remedial Action Area defined as extent of Abalene-related release as accepted by NYSDEC in April 11, 2022 memo.  
Supplemental samples will be collected in Additional Delineation Area prior to or during excavation to confirm excavation footprint.  
Dashed line indicates approximate extent.

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CLINTON, ONEIDA COUNTY, NEW YORK  
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### REMEDIAL ACTION AREA

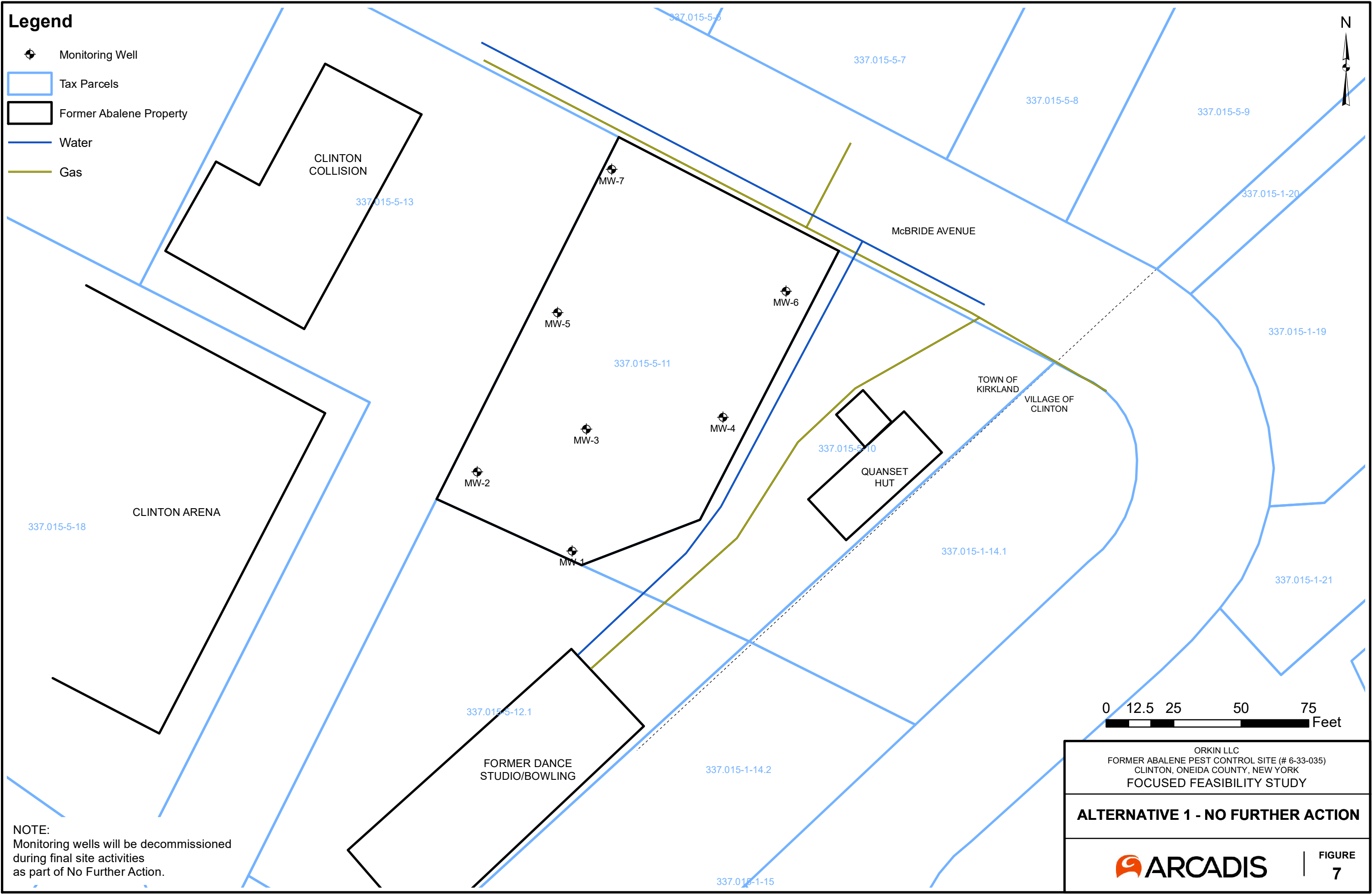


FIGURE

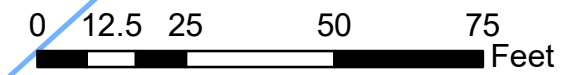
6


**Legend**

-  Monitoring Well
-  Tax Parcels
-  Former Abalene Property
-  Water
-  Gas



**NOTE:**  
Monitoring wells will be decommissioned during final site activities as part of No Further Action.

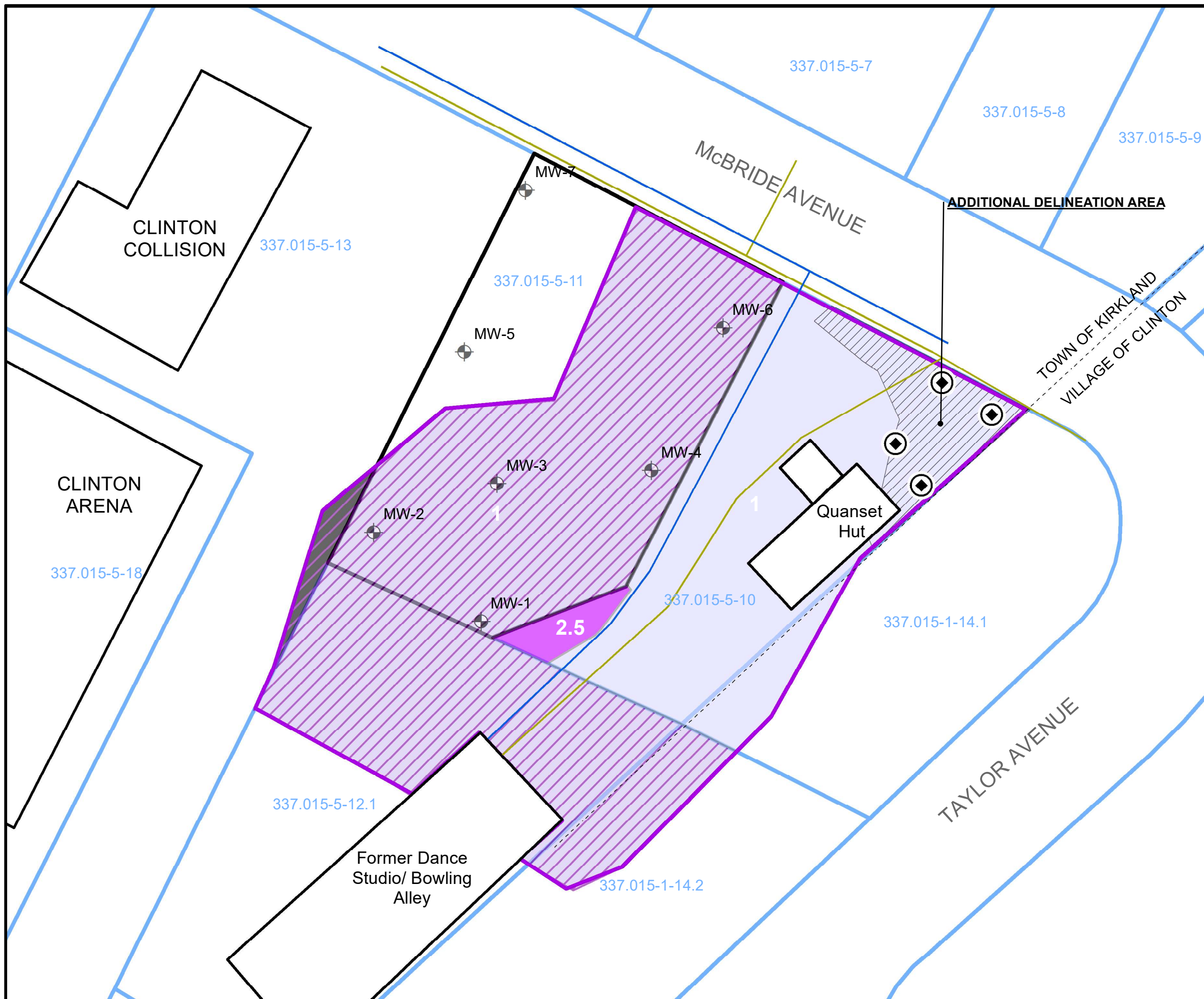


ORKIN LLC FORMER ABALENE PEST CONTROL SITE (# 6-33-035) CLINTON, ONEIDA COUNTY, NEW YORK FOCUSED FEASIBILITY STUDY	
ALTERNATIVE 1 - NO FURTHER ACTION	
	FIGURE <b>7</b>

City: Clinton Park Div/Group: ENV Created By: D.Giroux Last Saved By: Giroux  
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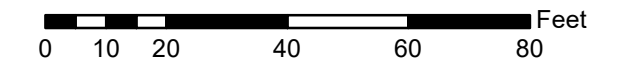


**Legend**

- Monitoring Well
  - Water
  - Gas
  - Remedial Action Area
  - Tax Parcels
  - Former Abalene Property
- Excavation Depths**
- 1 ft bgs excavation with ICs
  - 1 ft bgs
  - 2.5 ft bgs
  - Existing asphalt cap with ICs
  - Additional Delineation Area
  - Additional delineation samples



**Notes:**  
 Excavation extents within former Abalene property and adjacent properties to the south and west address shallow organochlorine pesticide and pesticide-related arsenic attributed to the Abalene release within the Remedial Action Area to achieve Commercial cleanup using ICs. The adjacent properties to the east will include deeper excavation where shown to achieve Commercial cleanup without ICs. Confirmation and/or documentation samples may be collected.  
 ft bgs - feet below ground surface.  
 SCOs - soil cleanup objective  
 ICs - institutional controls  
 MNA - monitored natural attenuation



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 CLINTON, ONEIDA COUNTY, NEW YORK  
**FOCUSED FEASIBILITY STUDY**

**ALTERNATIVE 2**  
**EXCAVATION AND SOIL COVER WITH INSTITUTIONAL CONTROLS AND GROUNDWATER MNA**





### Legend

- Monitoring Well
- Water
- Gas
- Remedial Action Area
- Tax Parcels
- Former Abalene Property

### Excavation Depths

- 7 ft bgs
- 6 ft bgs
- 5 ft bgs
- 4 ft bgs
- 2 ft bgs
- 1 ft bgs
- Additional Investigation Area
- Additional delineation samples

Notes:  
 Additional delineation samples may be collected where indicated.  
 Excavation extents address organochlorine pesticide and pesticide-related arsenic attributed to the Abalene release within the Remedial Action Area to achieve pre-Abalene release conditions.  
 Institutional control for groundwater will be needed for Former Abalene Property.  
 Confirmation and/or documentation samples may be collected.  
 ft bgs - feet below ground surface.  
 SCOs - soil clean-up objective  
 MNA - monitored natural attenuation

Feet  
 0 10 20 40 60 80

---

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 CLINTON, ONEIDA COUNTY, NEW YORK  
 FOCUSED FEASIBILITY STUDY

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**ALTERNATIVE 3**  
**EXCAVATION TO PRE-ABALENE RELEASE**  
**CONDITIONS WITH GROUNDWATER MNA**

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**ARCADIS** | FIGURE **9**