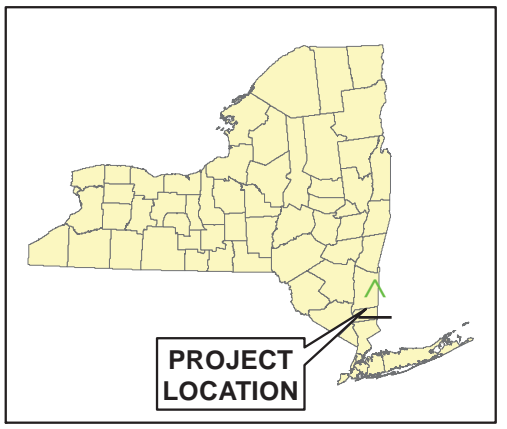





Figures: Earth Resources

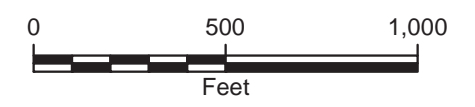
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Legend

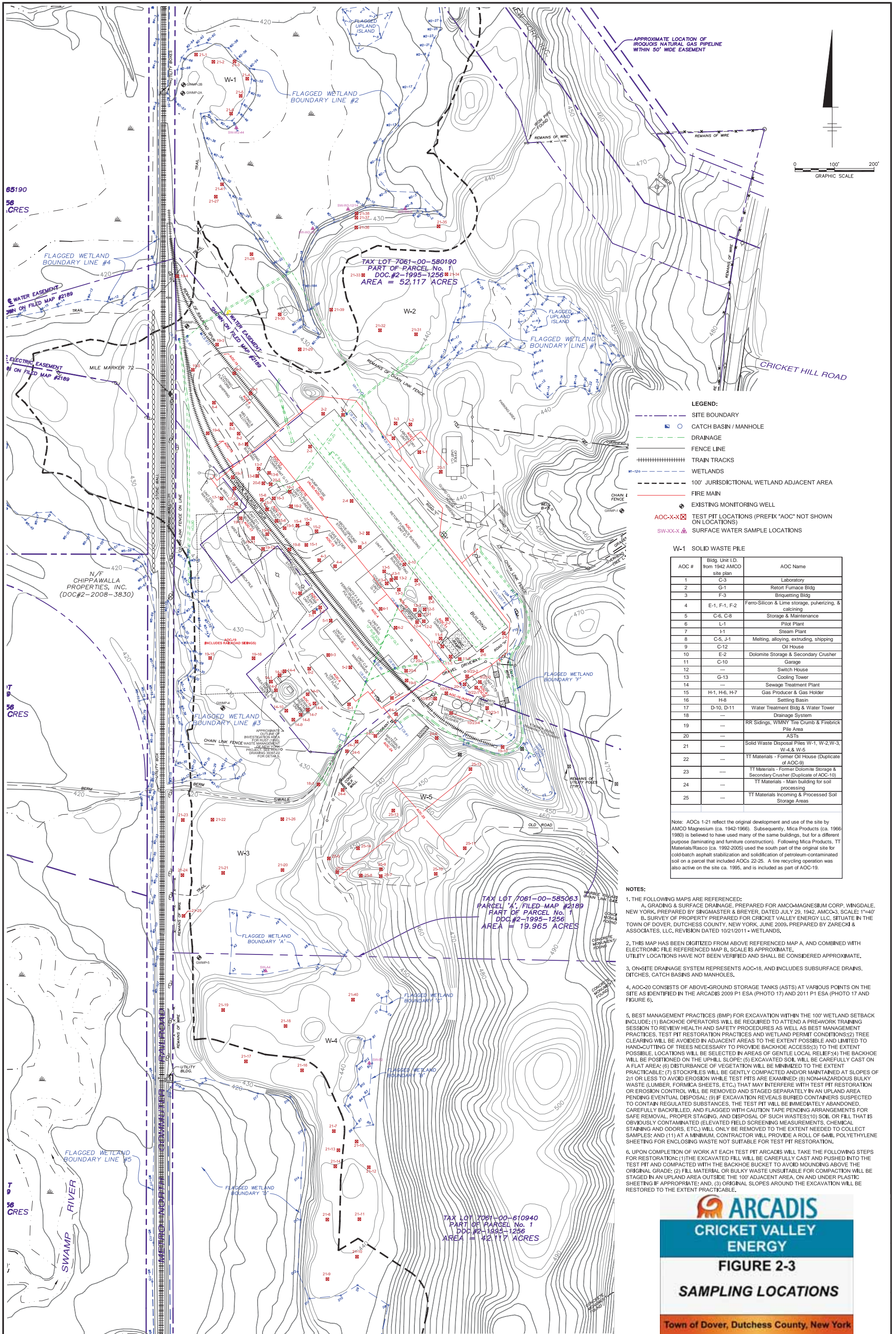
-  Project Development Area
-  Rasco Parcel
-  Property
-  Elevation Contour - 10ft

SOURCE:
2009 Dutchess County Color Infrared Orthoimagery
obtained from NYS GIS Clearinghouse.
<http://www.nysgis.state.ny.us/gateway/mg/2004/dutchess/>



**CRICKET VALLEY
ENERGY**
**FIGURE 2-1
CURRENT PROJECT
PROPERTY**

Town of Dover, Dutchess County, New York




- LEGEND:**
- SITE BOUNDARY
 - CATCH BASIN / MANHOLE
 - DRAINAGE
 - FENCE LINE
 - ||||| TRAIN TRACKS
 - WETLANDS
 - 100' JURISDICTIONAL WETLAND ADJACENT AREA
 - FIRE MAIN
 - ⊕ EXISTING MONITORING WELL
 - ⊗ AOC-X-X TEST PIT LOCATIONS (PREFIX "AOC" NOT SHOWN ON LOCATIONS)
 - △ SW-XX-X SURFACE WATER SAMPLE LOCATIONS

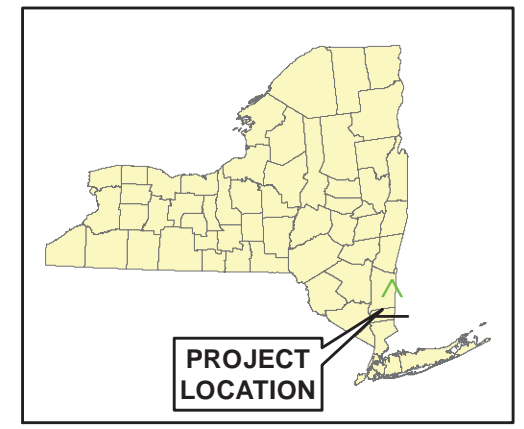
W-1 SOLID WASTE PILE

AOC #	Bldg. Unit I.D. from 1942 AMCO site plan	AOC Name
1	C-3	Laboratory
2	G-1	Retort Furnace Bldg
3	F-3	Bricketting Bldg
4	E-1, F-1, F-2	Ferro-Silicon & Lime storage, pulverizing, & calcining
5	C-6, C-8	Storage & Maintenance
6	L-1	Pit Plant
7	H-1	Steam Plant
8	C-5, J-1	Melting, alloying, extruding, shipping
9	C-12	Oil House
10	E-2	Dolomite Storage & Secondary Crusher
11	C-10	Garage
12	---	Switch House
13	G-13	Cooling Tower
14	---	Sewage Treatment Plant
15	H-1, H-6, H-7	Gas Producer & Gas Holder
16	H-8	Settling Basin
17	D-10, D-11	Water Treatment Bldg & Water Tower
18	---	Drainage System
19	---	RR Sidings, WMNY Tire Crumb & Firebrick Pile Area
20	---	ASTs
21	---	Solid Waste Disposal Piles W-1, W-2, W-3, W-4 & W-5
22	---	TT Materials - Former Oil House (Duplicate of AOC-9)
23	---	TT Materials - Former Dolomite Storage & Secondary Crusher (Duplicate of AOC-10)
24	---	TT Materials - Main building for soil processing
25	---	TT Materials Incoming & Processed Soil Storage Areas

Note: AOCs 1-21 reflect the original development and use of the site by AMCO Magnesium (ca. 1942-1966). Subsequently, Mica Products (ca. 1966-1980) is believed to have used many of the same buildings, but for a different purpose (laminating and furniture construction). Following Mica Products, TT Materials/Rasco (ca. 1992-2005) used the south part of the original site for coldbatch asphalt stabilization and solidification of petroleum-contaminated soil on a parcel that included AOCs 22-25. A tire recycling operation was also active on the site ca. 1995, and is included as part of AOC-19.

- NOTES:**
- THE FOLLOWING MAPS ARE REFERENCED:
 - A. GRADING & SURFACE DRAINAGE, PREPARED FOR AMCO-MAGNESIUM CORP., WINGDALE, NEW YORK, PREPARED BY SINGMASTER & BREYER, DATED JULY 29, 1942, AMCO-3, SCALE: 1"=40'
 - B. SURVEY OF PROPERTY PREPARED FOR CRICKET VALLEY ENERGY LLC, SITUATE IN THE TOWN OF DOVER, DUTCHESS COUNTY, NEW YORK, JUNE 2009, PREPARED BY ZARECKI & ASSOCIATES, LLC, REVISION DATED 10/21/2011 - WETLANDS.
 - THIS MAP HAS BEEN DIGITIZED FROM ABOVE REFERENCED MAP A, AND COMBINED WITH ELECTRONIC FILE REFERENCED MAP B, SCALE IS APPROXIMATE. UTILITY LOCATIONS HAVE NOT BEEN VERIFIED AND SHALL BE CONSIDERED APPROXIMATE.
 - ON-SITE DRAINAGE SYSTEM REPRESENTS AOC-18, AND INCLUDES SUBSURFACE DRAINS, DITCHES, CATCH BASINS AND MANHOLES.
 - AOC-20 CONSISTS OF ABOVE-GROUND STORAGE TANKS (ASTS) AT VARIOUS POINTS ON THE SITE AS IDENTIFIED IN THE ARCADIS 2009 P1 ESA (PHOTO 17) AND 2011 P1 ESA (PHOTO 17 AND FIGURE 6).
 - BEST MANAGEMENT PRACTICES (BMP) FOR EXCAVATION WITHIN THE 100' WETLAND SETBACK INCLUDE: (1) BACKHOE OPERATORS WILL BE REQUIRED TO ATTEND A PRE-WORK TRAINING SESSION TO REVIEW HEALTH AND SAFETY PROCEDURES AS WELL AS BEST MANAGEMENT PRACTICES, TEST PIT RESTORATION PRACTICES AND WETLAND PERMIT CONDITIONS; (2) TREE CLEARING WILL BE AVOIDED IN ADJACENT AREAS TO THE EXTENT POSSIBLE AND LIMITED TO HAND-CUTTING OF TREES NECESSARY TO PROVIDE BACKHOE ACCESS; (3) TO THE EXTENT POSSIBLE, LOCATIONS WILL BE SELECTED IN AREAS OF GENTLE LOCAL RELIEF; (4) THE BACKHOE WILL BE POSITIONED ON THE UPHILL SLOPE; (5) EXCAVATED SOIL WILL BE CAREFULLY CAST ON A FLAT AREA; (6) DISTURBANCE OF VEGETATION WILL BE MINIMIZED TO THE EXTENT PRACTICABLE; (7) STOCKPILES WILL BE GENTLY COMPACTED AND/OR MAINTAINED AT SLOPES OF 2:1 OR LESS TO AVOID EROSION WHILE TEST PITS ARE EXAMINED; (8) NON-HAZARDOUS BULKY WASTE (LUMBER, FORMICA SHEETS, ETC.) THAT MAY INTERFERE WITH TEST PIT RESTORATION OR EROSION CONTROL WILL BE REMOVED AND STAGED SEPARATELY IN AN UPLAND AREA PENDING EVENTUAL DISPOSAL; (9) IF EXCAVATION REVEALS BURIED CONTAINERS SUSPECTED TO CONTAIN REGULATED SUBSTANCES, THE TEST PIT WILL BE IMMEDIATELY ABANDONED, CAREFULLY BACKFILLED, AND FLAGGED WITH CAUTION TAPE PENDING ARRANGEMENTS FOR SAFE REMOVAL, PROPER STAGING, AND DISPOSAL OF SUCH WASTES; (10) SOIL OR FILL THAT IS OBVIOUSLY CONTAMINATED (ELEVATED FIELD SCREENING MEASUREMENTS, CHEMICAL STAINING AND ODORS, ETC.) WILL ONLY BE REMOVED TO THE EXTENT NEEDED TO COLLECT SAMPLES; AND (11) AT A MINIMUM, CONTRACTOR WILL PROVIDE A ROLL OF 6-MIL POLYETHYLENE SHEETING FOR ENCLOSING WASTE NOT SUITABLE FOR TEST PIT RESTORATION.
 - UPON COMPLETION OF WORK AT EACH TEST PIT ARCADIS WILL TAKE THE FOLLOWING STEPS FOR RESTORATION: (1) THE EXCAVATED FILL WILL BE CAREFULLY CAST AND PUSHED INTO THE TEST PIT AND COMPACTED WITH THE BACKHOE BUCKET TO AVOID MOUNDING ABOVE THE ORIGINAL GRADE; (2) FILL MATERIAL OR BULKY WASTE UNSUITABLE FOR COMPACTION WILL BE STAGED IN AN UPLAND AREA OUTSIDE THE 100' ADJACENT AREA, ON AND UNDER PLASTIC SHEETING IF APPROPRIATE; AND, (3) ORIGINAL SLOPES AROUND THE EXCAVATION WILL BE RESTORED TO THE EXTENT PRACTICABLE.

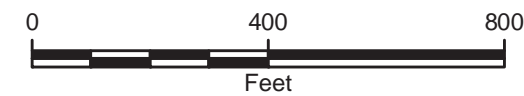

CRICKET VALLEY ENERGY
FIGURE 2-3
SAMPLING LOCATIONS
 Town of Dover, Dutchess County, New York



- Legend**
- Project Development Area
 - Rasco Parcel
 - Property Boundary
- Results Above the ICRU
(Number of Constituents Exceeded)
- (1
 - (2
- 15-5 Sample Location (AOC-ID)

ICRU = Industrial Criteria, Restricted Use

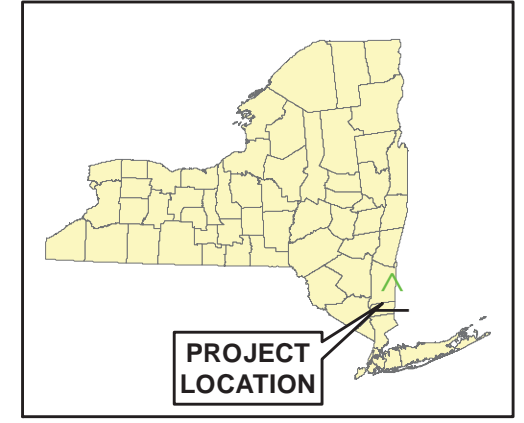
SOURCE:
2009 Dutchess County Color Infrared Orthoimagery
obtained from NYS GIS Clearinghouse.
<http://www.nysgis.state.ny.us/gateway/mg/2004/dutchess/>



**CRICKET VALLEY
ENERGY**

**FIGURE 2-4
RESULTS ABOVE
THE ICRU**

Town of Dover, Dutchess County, New York



Legend

- Project Development Area
- Rasco Parcel
- Property Boundary

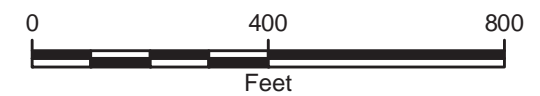
Results Above the URU and Below the ICRU
(Number of Constituents Exceeded)

- 1
- 2
- 3
- 4

1-3 Sample Location (AOC-ID)

URU = Unrestricted Use
ICRU = Industrial Criteria, Restricted Use

SOURCE:
2009 Dutchess County Color Infrared Orthoimagery
obtained from NYS GIS Clearinghouse.
<http://www.nysgis.state.ny.us/gateway/mg/2004/dutchess/>

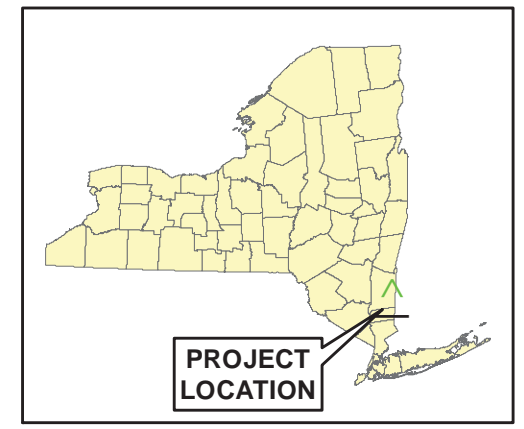
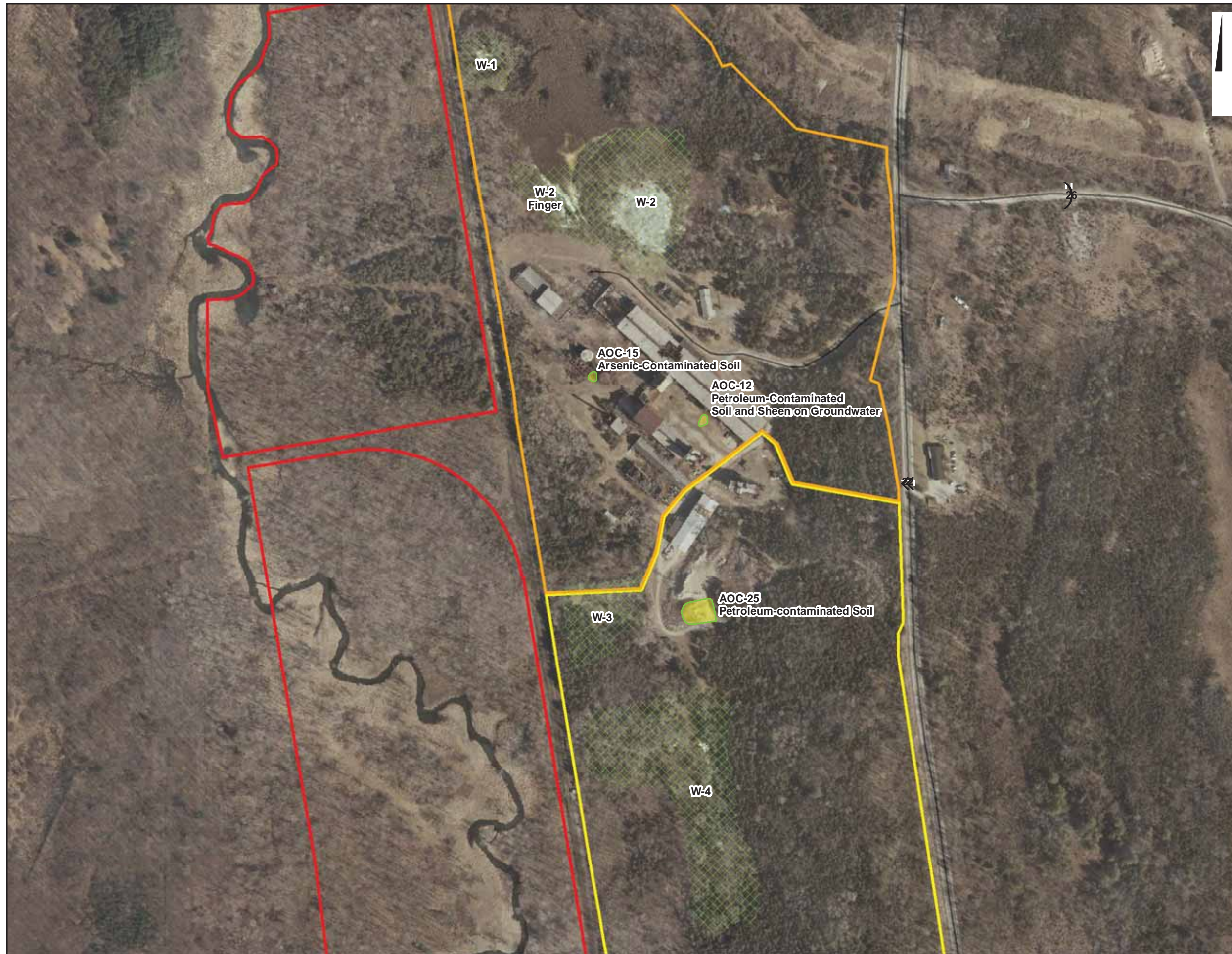


CRICKET VALLEY ENERGY






FIGURE 2-5

RESULTS ABOVE THE URU AND BELOW THE ICRU

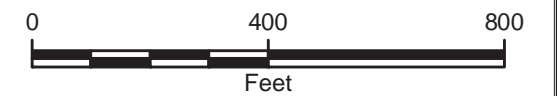
Town of Dover, Dutchess County, New York



Legend

-  Project Development Area
-  Rasco Parcel
-  Property Boundary
-  Special Handling Area
-  Extent of Waste Pile

SOURCE:
2009 Dutchess County Color Infrared Orthoimagery
obtained from NYS GIS Clearinghouse.
<http://www.nysgis.state.ny.us/gateway/mg/2004/dutchess/>



**CRICKET VALLEY
ENERGY**
**FIGURE 2-6
WASTE AND SPECIAL
HANDLING AREAS**

Town of Dover, Dutchess County, New York