FIGURES

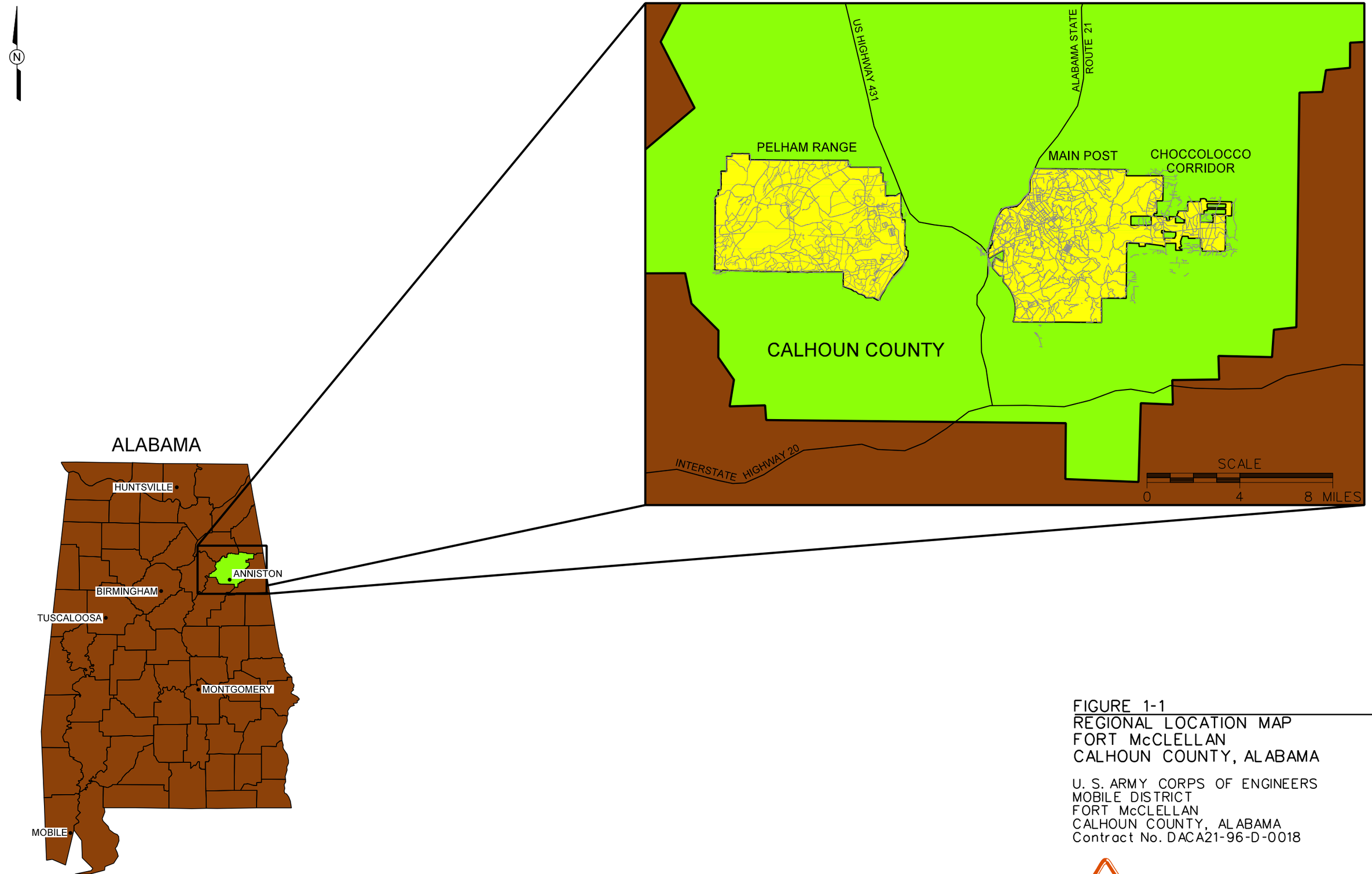

FIGURE 1-1
REGIONAL LOCATION MAP
FORT McCLELLAN
CALHOUN COUNTY, ALABAMA

U. S. ARMY CORPS OF ENGINEERS
MOBILE DISTRICT
FORT McCLELLAN
CALHOUN COUNTY, ALABAMA
Contract No. DACA21-96-D-0018

Shaw Environmental, Inc.

STARTING DATE: 06/29/04	DRAFT. CHCK. BY:	INITIATOR: B. HEDBERG	DWG. NO.: ...\838936es.169
DRAWN BY: D. BOMAR	ENGR. CHCK. BY: S. MORAN	PROJ. MGR.: J. YACOUB	PROJ. NO.: 838936
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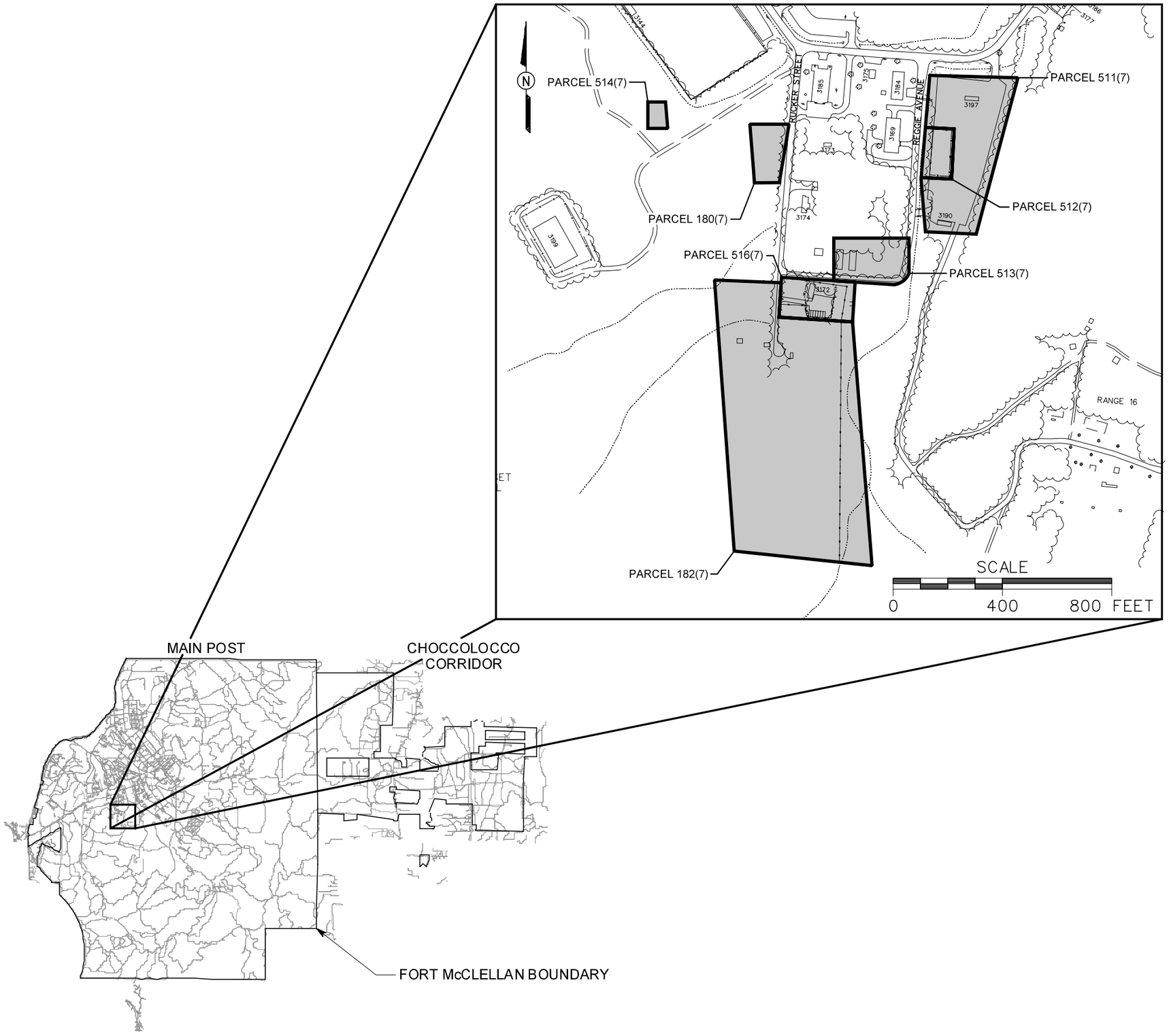

LEGEND

- UNIMPROVED ROADS AND PARKING
- PAVED ROADS AND PARKING
- BUILDING
- TREES / TREELINE
- PARCEL BOUNDARY
- SURFACE DRAINAGE / CREEK

FIGURE 1-2
SITE LOCATION MAP
TRAINING AREA T-5 SITES
PARCELS 180(7), 182(7), 511(7), 512(7), 513(7), 514(7), AND 516(7)

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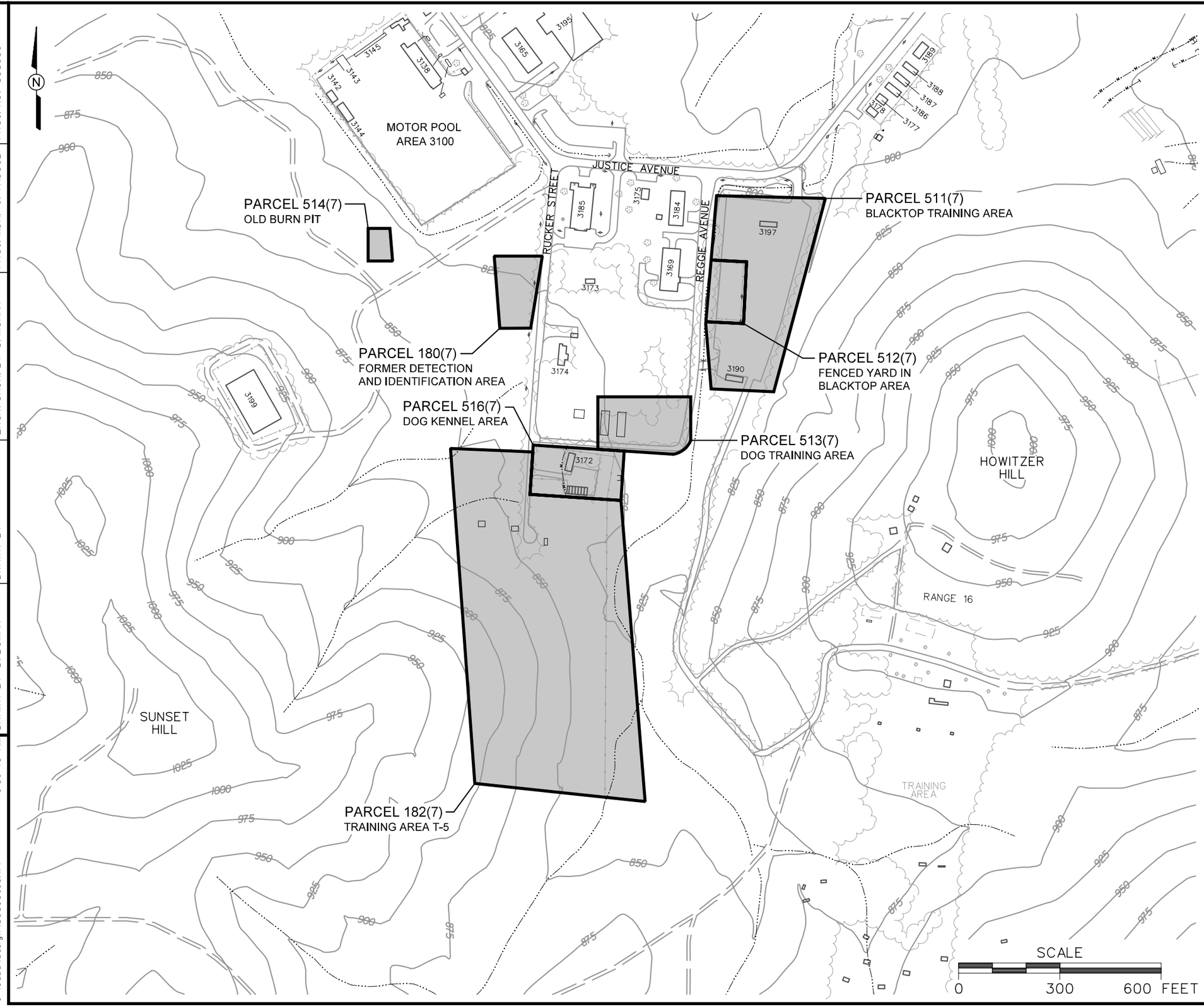

LEGEND

- UNIMPROVED ROADS AND PARKING
- PAVED ROADS AND PARKING
- BUILDING
- TOPOGRAPHIC CONTOURS (CONTOUR INTERVAL - 25 FOOT)
- TREES / TREELINE
- PARCEL BOUNDARY
- CULVERT WITH HEADWALL
- SURFACE DRAINAGE / CREEK
- MANMADE SURFACE DRAINAGE FEATURE
- FENCE
- UTILITY POLE

FIGURE 1-3
SITE MAP
TRAINING AREA T-5 SITES
PARCELS 180(7), 182(7), 511(7), 512(7), 513(7), 514(7), AND 516(7)

U. S. ARMY CORPS OF ENGINEERS
MOBILE DISTRICT
FORT McCLELLAN
CALHOUN COUNTY, ALABAMA
Contract No. DACA21-96-D-0018

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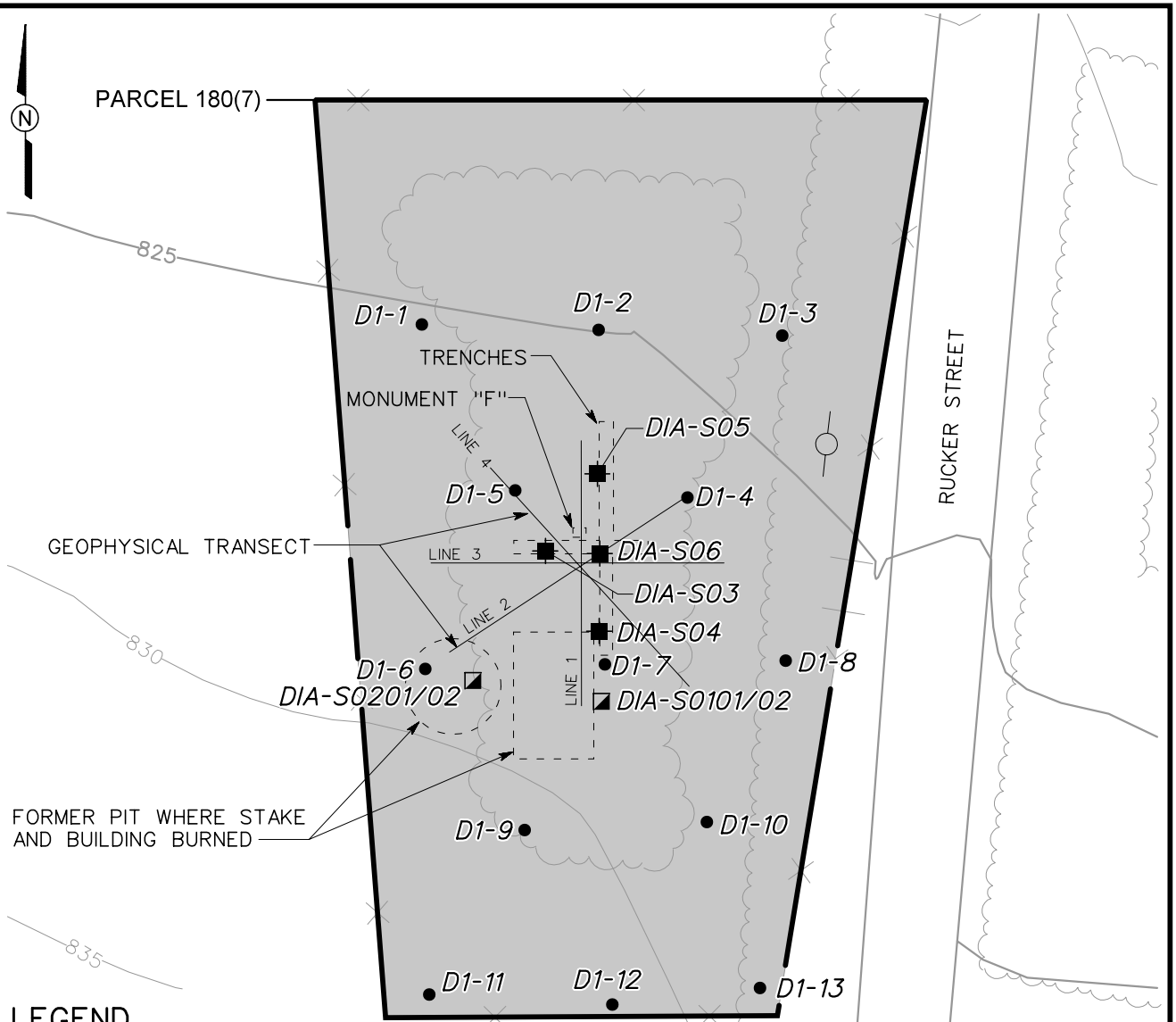

LEGEND

- PAVED ROADS AND PARKING
- TOPOGRAPHIC CONTOURS (CONTOUR INTERVAL - 5 FOOT)
- TREES / TREELINE
- PARCEL BOUNDARY
- UTILITY POLE
- HISTORICAL FEATURES, (SAIC, 2000)
- LINE 1 — GEOPHYSICAL TRANSECT
- MINICAMS SCREENING LOCATION
- SUBSURFACE SOIL SAMPLE LOCATION
- SURFACE AND SUBSURFACE SOIL SAMPLE LOCATION

SCALE

0 40 80 FEET

SOURCE: SCIENCE APPLICATIONS INTERNATIONAL CORPORATION (SAIC), 2000, "FINAL FORT McCLELLAN REMEDIAL INVESTIGATION/BASELINE RISK ASSESSMENT REPORT", JULY.

FIGURE 1-4
SAMPLE LOCATION MAP (PREVIOUS SI/RI) FORMER DETECTION AND IDENTIFICATION AREA PARCEL 180(7)

U. S. ARMY CORPS OF ENGINEERS
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FORT McCLELLAN
CALHOUN COUNTY, ALABAMA
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ENGR. CHCK. BY: S. MORAN
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STARTING DATE: 06/29/04
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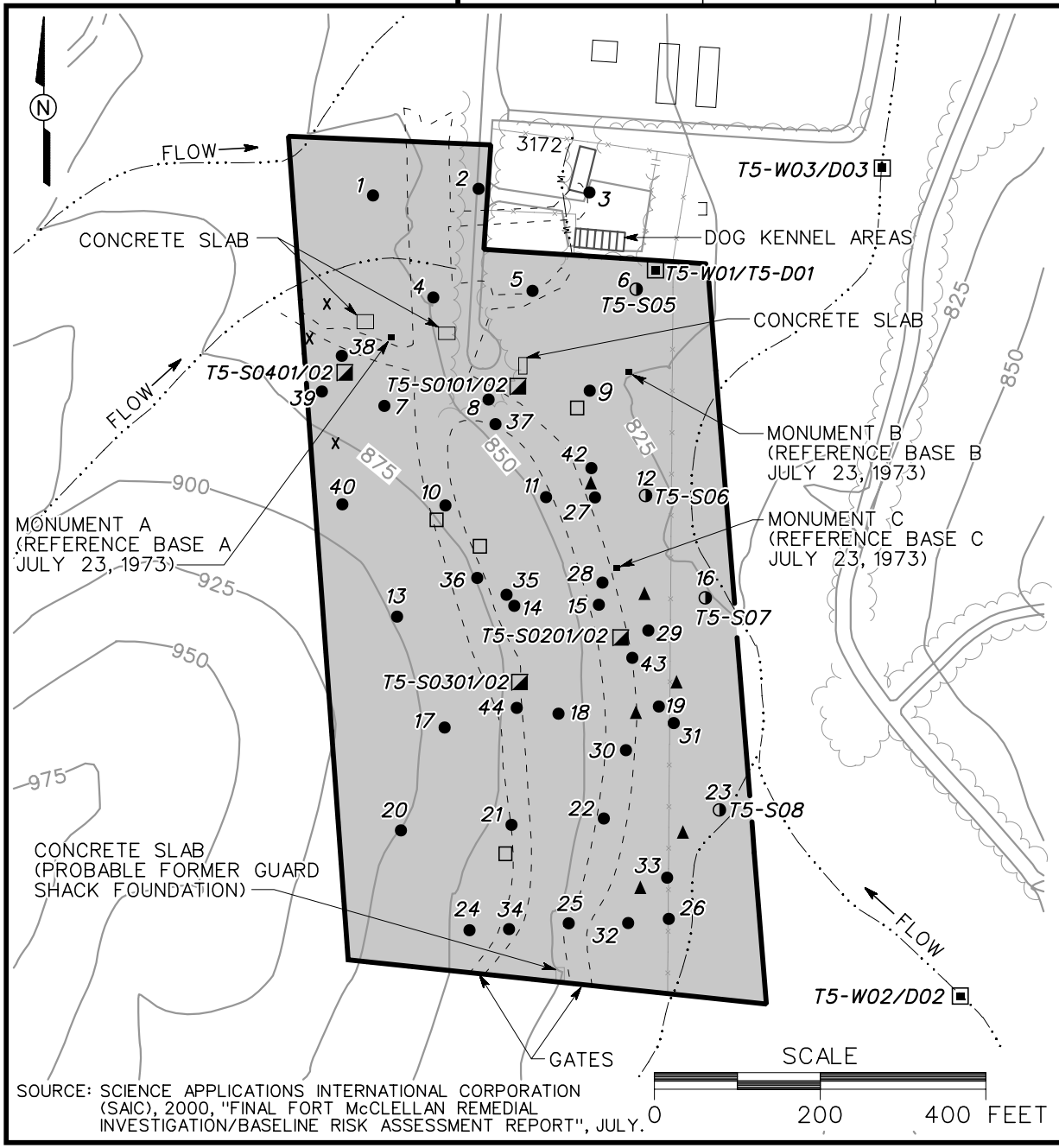

SOURCE: SCIENCE APPLICATIONS INTERNATIONAL CORPORATION (SAIC), 2000, "FINAL FORT McCLELLAN REMEDIAL INVESTIGATION/BASELINE RISK ASSESSMENT REPORT", JULY.

LEGEND

- PAVED ROADS AND PARKING
- BUILDING
- TOPOGRAPHIC CONTOURS (CONTOUR INTERVAL - 25 FOOT)
- TREES / TREELINE
- PARCEL BOUNDARY
- SURFACE DRAINAGE / CREEK
- FENCE
- UTILITY POLE
- HISTORICAL FEATURES, (SAIC, 1995)
- SAIC MINICAMS SCREENING LOCATION
- SAIC MINICAMS SCREENING LOCATION WITH SOIL SAMPLE
- SAIC SURFACE WATER/SEDIMENT SAMPLE LOCATION
- SAIC SI SURFACE AND SUBSURFACE SOIL SAMPLE LOCATION
- SAIC SI POTENTIAL VX SITE
- SAIC SI POTENTIAL GB SITE
- X SAIC SI HD SITE

FIGURE 1-5
SAMPLE LOCATION MAP (PREVIOUS SI/RI) TRAINING AREA T-5 PARCEL 182(7)

U. S. ARMY CORPS OF ENGINEERS
MOBILE DISTRICT
FORT McCLELLAN
CALHOUN COUNTY, ALABAMA
Contract No. DACA21-96-D-0018

Shaw™ Shaw Environmental, Inc.

dbomar 12/6/2004	STARTING DATE: 07/01/04	DATE LAST REV.:	DRAFT. CHCK. BY:	INITIATOR: B. HEDBERG	DWG. NO.:..\838936es.174
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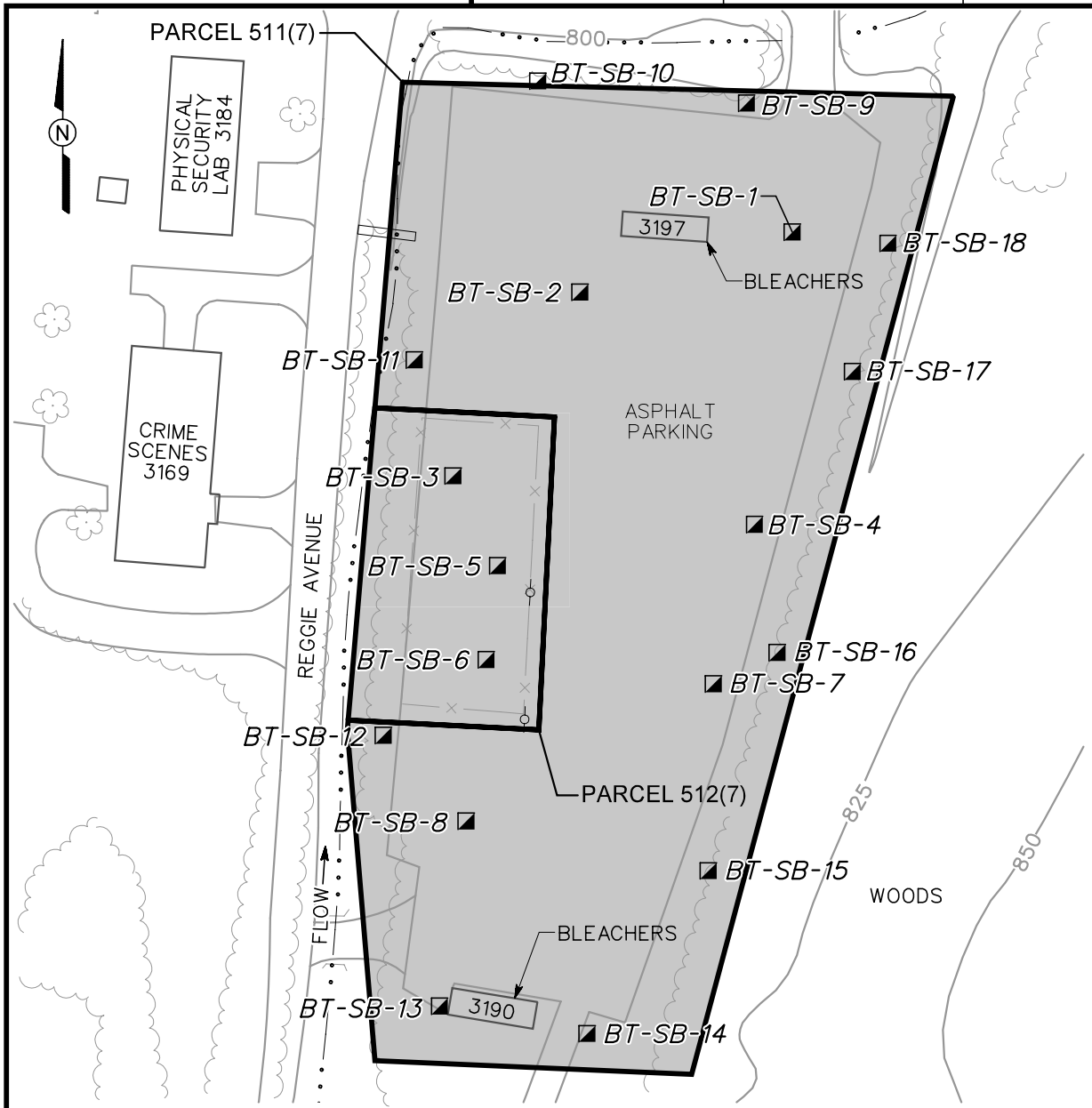


SOURCE: PARSONS ENGINEERING SCIENCE INC., (2002), "CHEMICAL WARFARE MATERIEL (CWM) ENGINEERING EVALUATION/COST ANALYSIS (EE/CA), FORT McCLELLAN, ALABAMA", JUNE.

LEGEND

- PAVED ROADS AND PARKING
- BUILDING
- TOPOGRAPHIC CONTOUR (CONTOUR INTERVAL - 25 FOOT)
- TREES / TREELINE
- PARCEL BOUNDARY
- CULVERT WITH HEADWALL
- SURFACE DRAINAGE / CREEK
- FENCE
- UTILITY POLE
- SURFACE AND SUBSURFACE SOIL SAMPLE LOCATION (PARSONS, 2002)

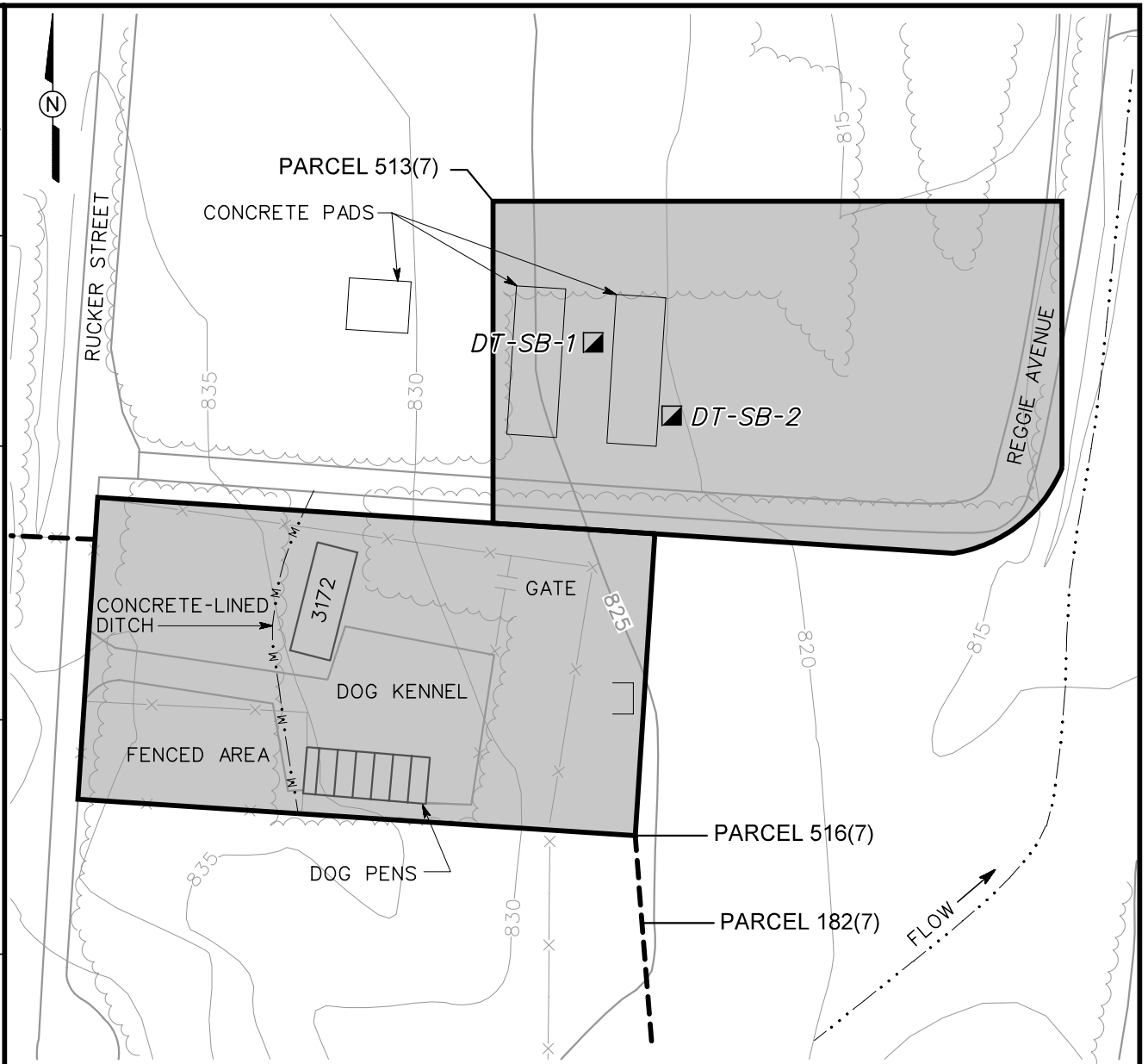
SCALE

0 100 200 FEET

FIGURE 1-6
SAMPLE LOCATION MAP (EE/CA)
BLACKTOP TRAINING AREA
PARCEL 511(7) AND
FENCED YARD IN BLACKTOP AREA
PARCEL 512(7)

U. S. ARMY CORPS OF ENGINEERS
MOBILE DISTRICT
FORT McCLELLAN
CALHOUN COUNTY, ALABAMA
Contract No. DACA21-96-D-0018

Shaw™ Shaw Environmental, Inc.



LEGEND:

- PAVED ROADS AND PARKING
- BUILDING
- TOPOGRAPHIC CONTOURS (CONTOUR INTERVAL - 5 FOOT)
- TREES / TREELINE
- PARCEL BOUNDARY
- SURFACE DRAINAGE / CREEK
- MANMADE SURFACE DRAINAGE FEATURE
- FENCE
- UTILITY POLE
- SURFACE AND SUBSURFACE SOIL SAMPLE LOCATION (APPROXIMATE LOCATION)

SCALE

0 80 160 FEET

SOURCE: PARSONS ENGINEERING SCIENCE INC., (2002), "CHEMICAL WARFARE MATERIEL (CWM) ENGINEERING EVALUATION/COST ANALYSIS (EE/CA), FORT McCLELLAN, ALABAMA", JUNE.

FIGURE 1-7
SAMPLE LOCATION MAP (EE/CA)
DOG TRAINING AREA, PARCEL 513(7)
AND DOG KENNEL AREA
PARCEL 516(7)

U. S. ARMY CORPS OF ENGINEERS
MOBILE DISTRICT
FORT McCLELLAN
CALHOUN COUNTY, ALABAMA
Contract No. DACA21-96-D-0018

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PROJ. MGR.: J. YACOUB
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ENGR. CHCK. BY: S. MORAN
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STARTING DATE: 07/02/04
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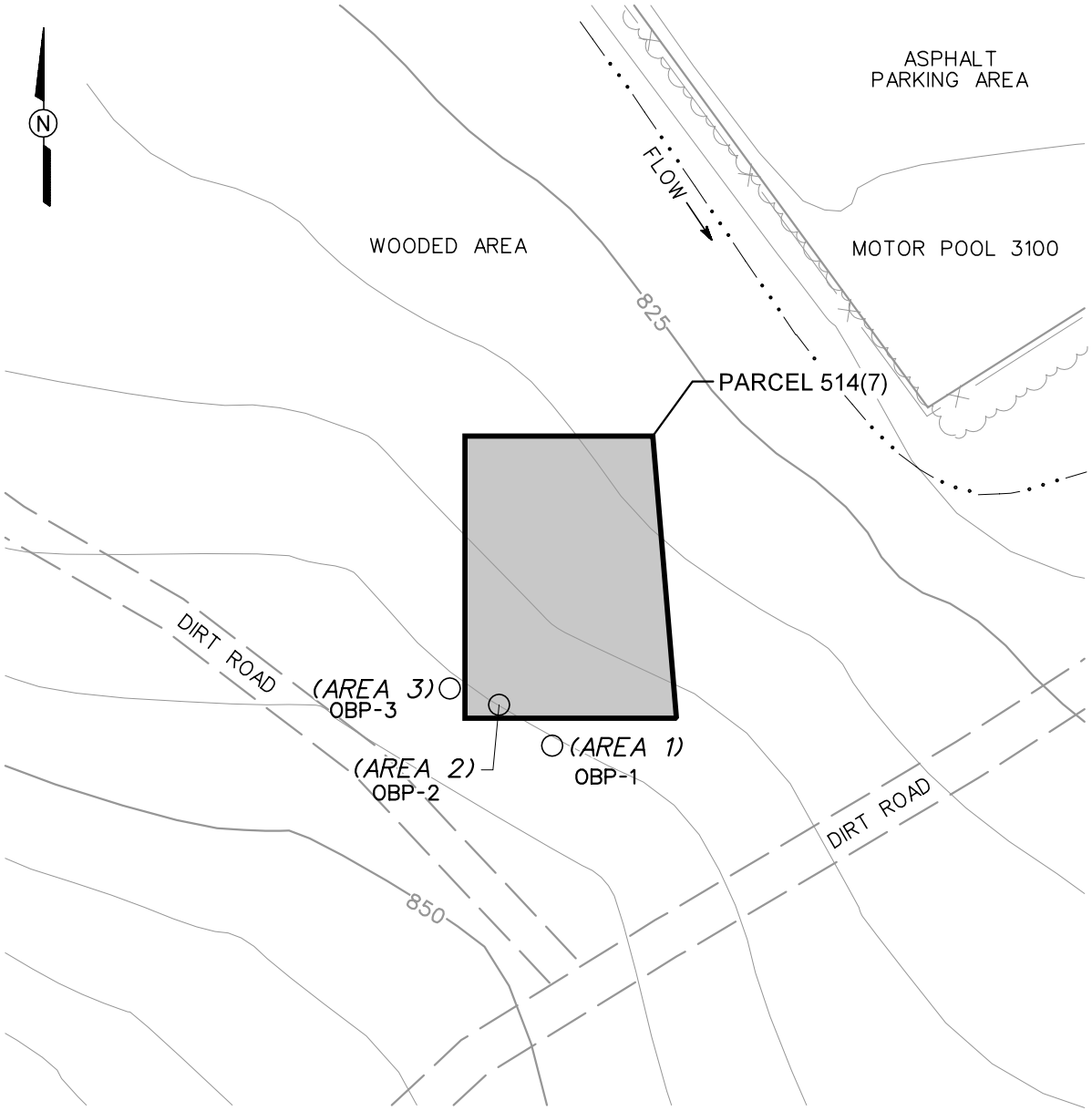

LEGEND:

- UNIMPROVED ROADS AND PARKING
- PAVED ROADS AND PARKING
- BUILDING
- TOPOGRAPHIC CONTOURS (CONTOUR INTERVAL - 5 FOOT)
- TREES / TREELINE
- PARCEL BOUNDARY
- SURFACE DRAINAGE / CREEK
- FENCE
- UTILITY POLE
- EE/CA EXCAVATION LOCATION (PARSONS, 2002)

SCALE

0 60 120 FEET

SOURCE: PARSONS ENGINEERING SCIENCE INC., (2002),"CHEMICALWARFARE MATERIEL (CWM) ENGINEERING EVALUATION/COST ANALYSIS (EE/CA), FORT McCLELLAN, ALABAMA", JUNE.

FIGURE 1-8
EXCAVATION LOCATION MAP (EE/CA)
OLD BURN PIT
PARCEL 514(7)

U. S. ARMY CORPS OF ENGINEERS
MOBILE DISTRICT
FORT McCLELLAN
CALHOUN COUNTY, ALABAMA
Contract No. DACA21-96-D-0018

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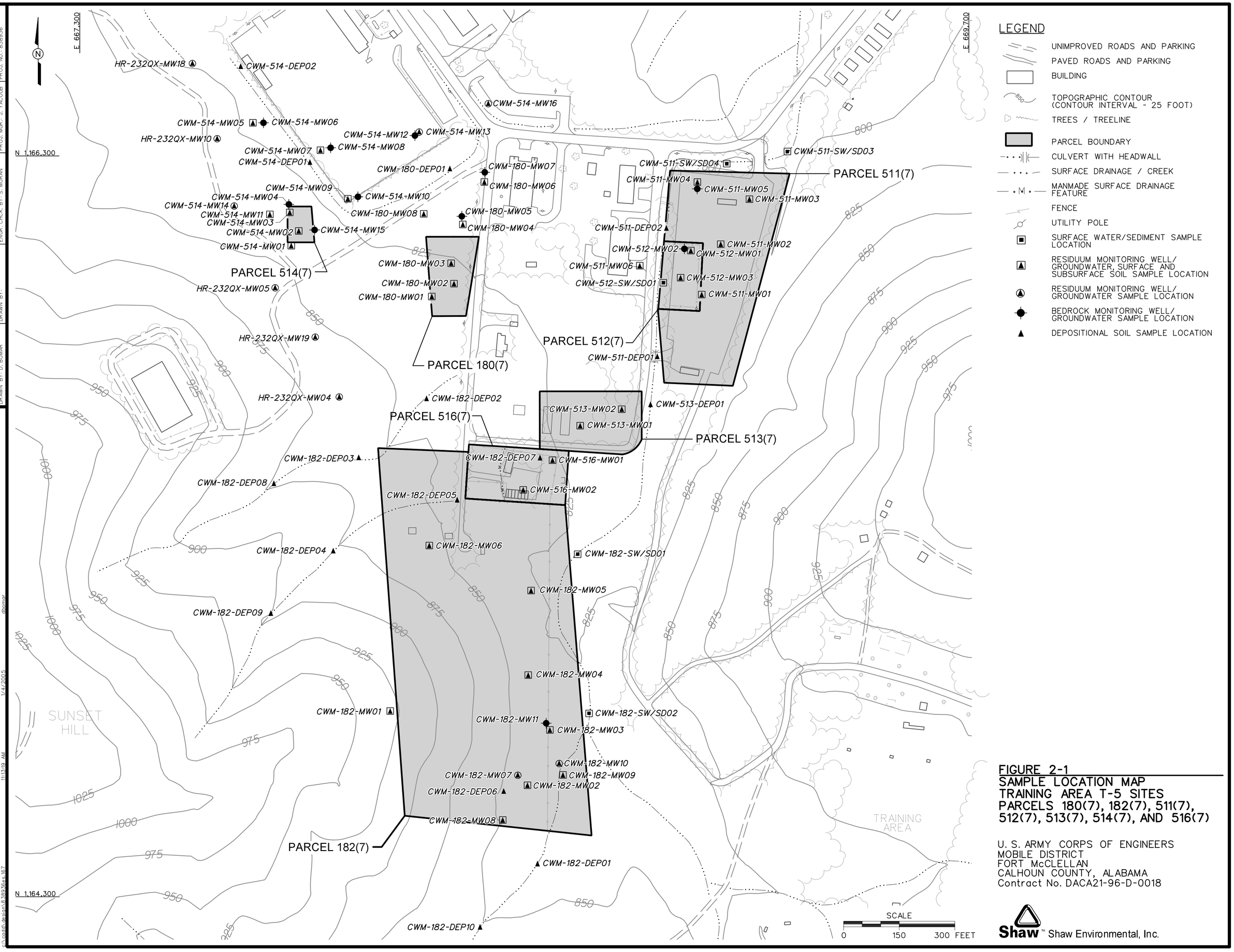

FIGURE 2-1
SAMPLE LOCATION MAP
TRAINING AREA T-5 SITES
PARCELS 180(7), 182(7), 511(7), 512(7), 513(7), 514(7), AND 516(7)

U. S. ARMY CORPS OF ENGINEERS
MOBILE DISTRICT
FORT McCLELLAN
CALHOUN COUNTY, ALABAMA
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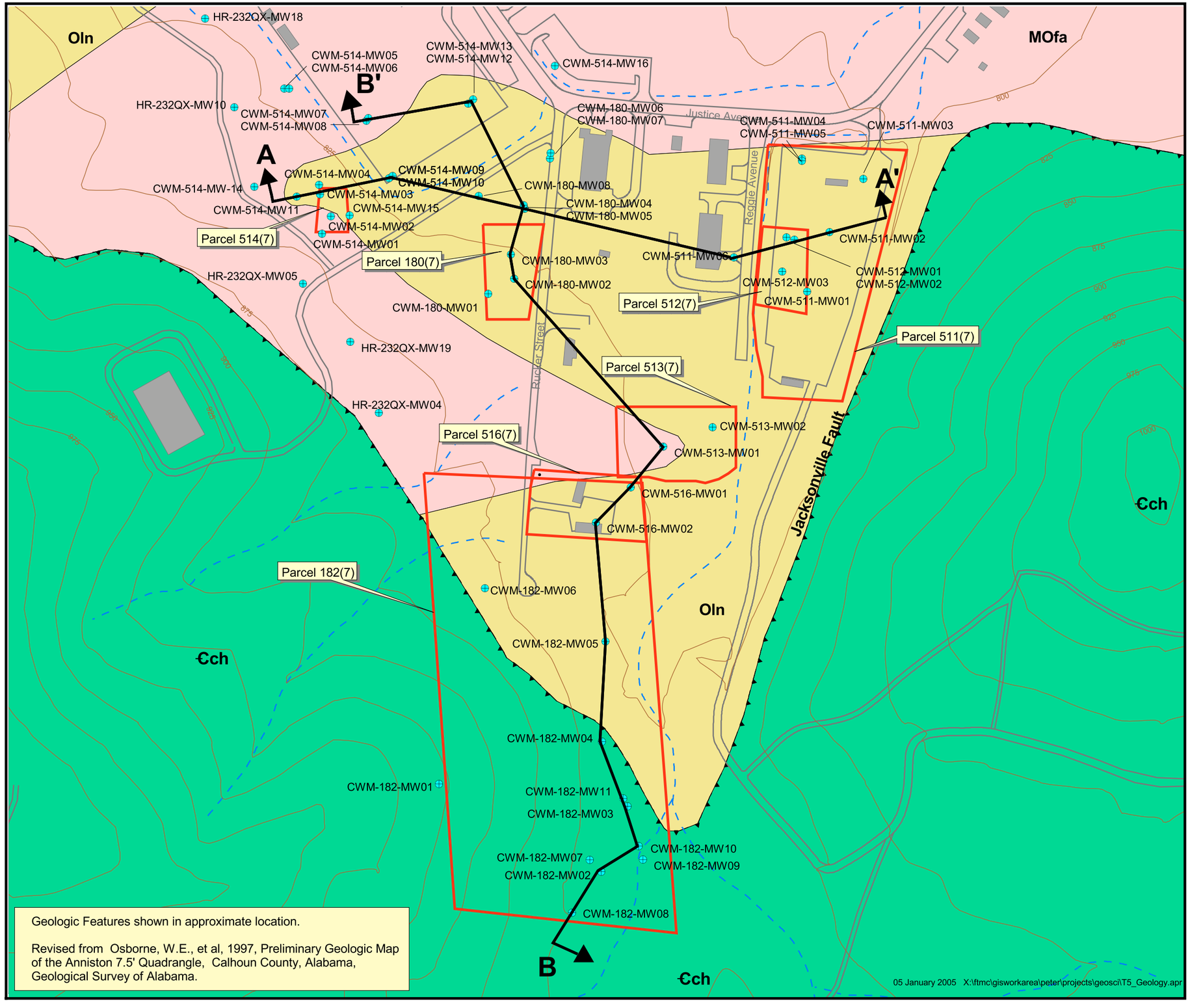
DRAWN BY: D. BOMAR | DRAWN BY: | ENGR. CHCK. BY: S. MORAN | PROJ. MGR.: J. YACOUB | PROJ. NO.: 838936

Figure 3-1

Site Geologic Map

Training Area T-5, Sites
Parcels 180(7), 182(7), 511(7),
512(7), 513(7), 514(7), and 516(7)
Fort McClellan, Alabama



Geologic Features shown in approximate location.

Revised from Osborne, W.E., et al, 1997, Preliminary Geologic Map of the Anniston 7.5' Quadrangle, Calhoun County, Alabama, Geological Survey of Alabama.

Legend

- Parcel Boundary
- Buildings
- Roads
- Streams (dashed where intermittent)
- Monitoring Well

Geology

- MOfa — Mississippian/Ordovician - Floyd and Athens Shale, Undifferentiated
- Oln — Ordovician - Little Oak and Newala Limestones, Undifferentiated
- Ꞓch — Cambrian - Chilhowee Group, Undifferentiated
- Thrust Fault (dashed where inferred; barbs on upper plate)
- A A' — Cross Section Location

0 225 450
NAD83 State Plane Feet

N

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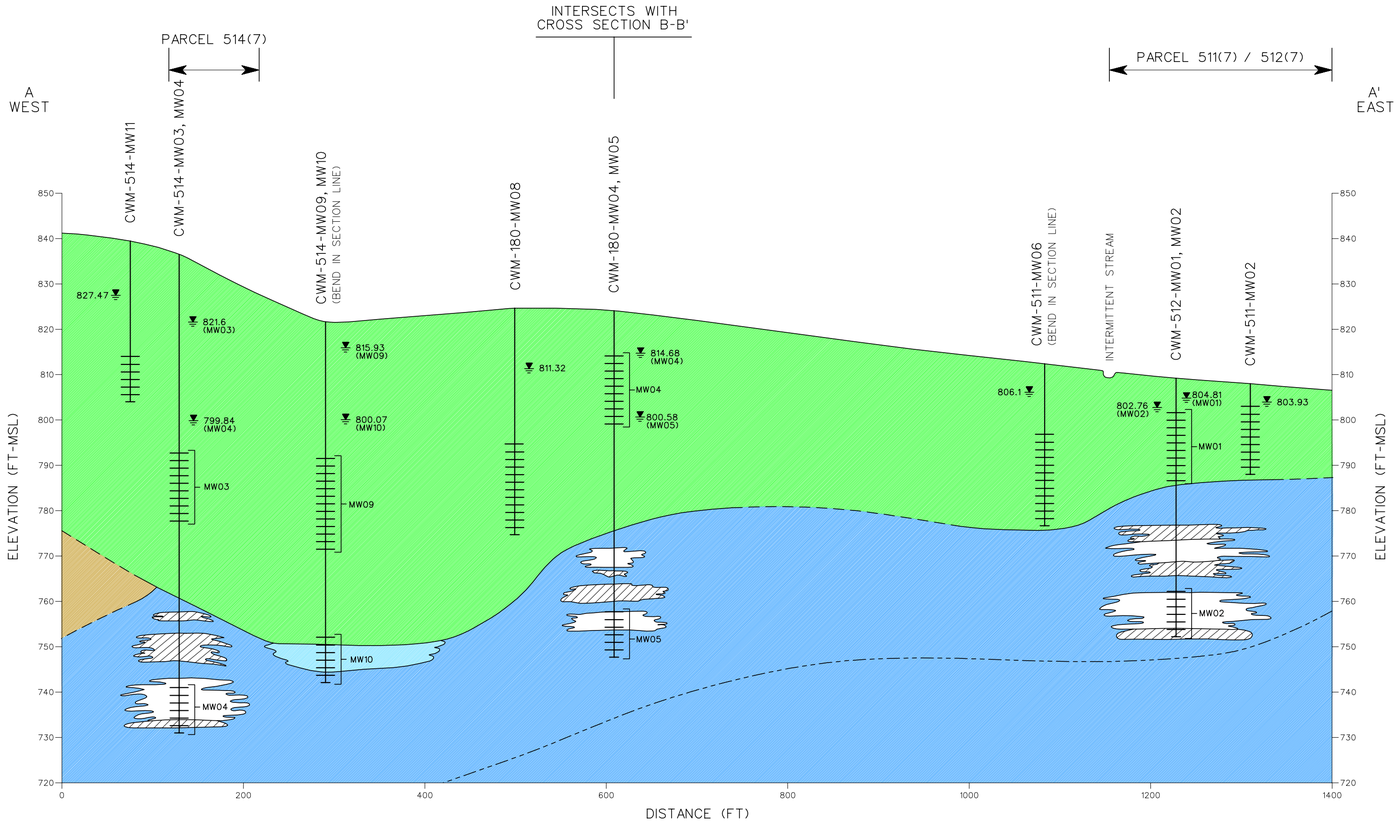

LEGEND:

- SCREEN INTERVAL
- WATER TABLE
- 804.81 GROUNDWATER ELEVATION (FT MSL) (MAY 6, 2004)
- CONTACT DASHED WHERE INFERRED
- INFERRED BEDDING
- THRUST FAULT
- VOID
- VOID, CLAY-FILLED WITH WEATHERED LIMESTONE GRAVEL
- CLAY, CLAY WITH SILT AND SAND, LITTLE SANDSTONE, QUARTZITE GRAVEL, LIMESTONE GRAVEL, OR WEATHERED SHALE GRAVEL
- SHALE
- HIGHLY FRACTURED LIMESTONE
- LIMESTONE, LIMESTONE AND SHALE

NOTES:

1. ELEVATIONS ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988.
2. CROSS SECTION LOCATION SHOWN ON FIGURE 3-1.

HORIZONTAL: 0 100 200 FEET

VERTICAL: 0 20 40 FEET

FIGURE 3-2
GEOLOGIC CROSS SECTION A-A'
TRAINING AREA T-5 SITES
PARCELS 180(7), 182(7), 511(7), 512(7), 513(7), 514(7), AND 516(7)

U. S. ARMY CORPS OF ENGINEERS
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FORT McCLELLAN
CALHOUN COUNTY, ALABAMA
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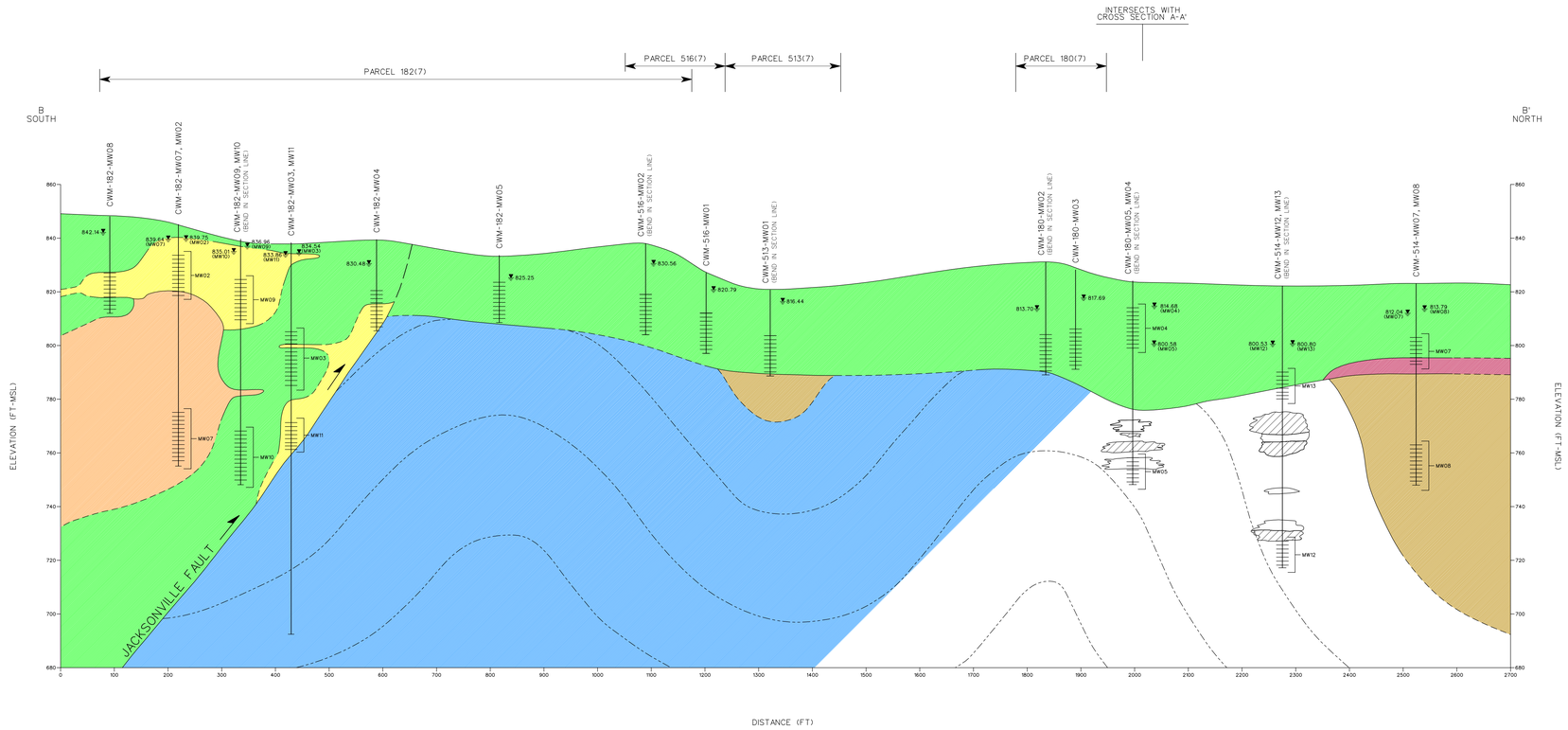

LEGEND:

- SCREEN INTERVAL
- WATER TABLE
- 833.86 GROUNDWATER ELEVATION (FT MSL) (MAY 6, 2004)
- CONTACT DASHED WHERE INFERRED
- INFERRED BEDDING
- THRUST FAULT
- VOID
- VOID, CLAY-FILLED WITH WEATHERED LIMESTONE GRAVEL
- CLAY, CLAY WITH SILT AND SAND, LITTLE SANDSTONE, QUARTZITE GRAVEL, LIMESTONE GRAVEL, OR WEATHERED SHALE GRAVEL
- SILT AND SAND, SAND
- SILT AND GRAVEL
- WEATHERED SHALE
- SHALE
- LIMESTONE, LIMESTONE AND SHALE

NOTES:

1. ELEVATIONS ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988.
2. CROSS SECTION LOCATION SHOWN ON FIGURE 3-1.

HORIZONTAL
0 100 200 FEET

VERTICAL
0 20 40 FEET

FIGURE 3-3
GEOLOGIC CROSS SECTION B-B'
TRAINING AREA T-5 SITES
PARCELS 180(7), 182(7), 511(7), 512(7), 513(7), 514(7), AND 516(7)

U. S. ARMY CORPS OF ENGINEERS
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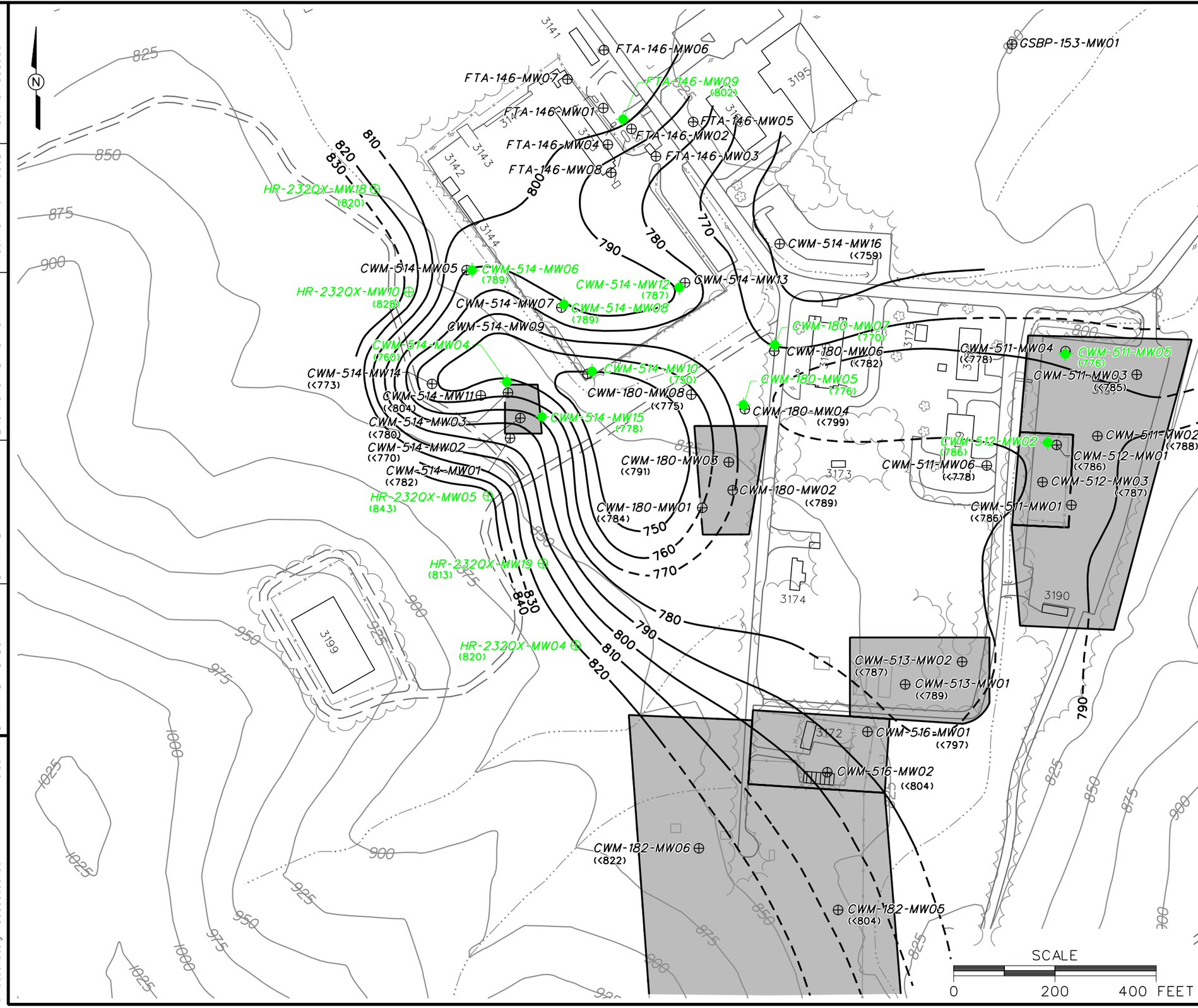

LEGEND

- UNIMPROVED ROAD
- PAVED ROAD AND PARKING
- BUILDING
- TOPOGRAPHIC CONTOUR (CONTOUR INTERVAL - 25 FOOT)
- TOP-OF-BEDROCK STRUCTURE CONTOUR (DASHED WHERE INFERRED)
- TREES / TREELINE
- PARCEL BOUNDARY
- SURFACE DRAINAGE / CREEK
- FENCE
- UTILITY POLE
- RESIDUUM MONITORING WELL LOCATION
- BEDROCK MONITORING WELL LOCATION
- (776) TOP-OF-BEDROCK ELEVATION

NOTES:

1. WELLS PENETRATING BEDROCK ARE SHOWN IN GREEN.
2. PARCEL 232QX WELLS PENETRATED WEATHERED BEDROCK AT SHALLOW DEPTHS BUT ARE SHOWN AS RESIDUUM WELLS BASED ON GROUNDWATER FLOW.

FIGURE 3-4

TOP OF BEDROCK STRUCTURE MAP
TRAINING AREA T-5 SITES
PARCELS 180(7), 182(7), 511(7), 512(7), 513(7), 514(7), AND 516(7)

U. S. ARMY CORPS OF ENGINEERS
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INITIATOR: B. HEDBERG	PROJ. MGR.: J. YACOUB		
DRAFT. CHCK. BY:	ENGR. CHCK. BY: S. MORAN		
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STARTING DATE: 05/18/04	DRAWN BY: D. BOMAR		
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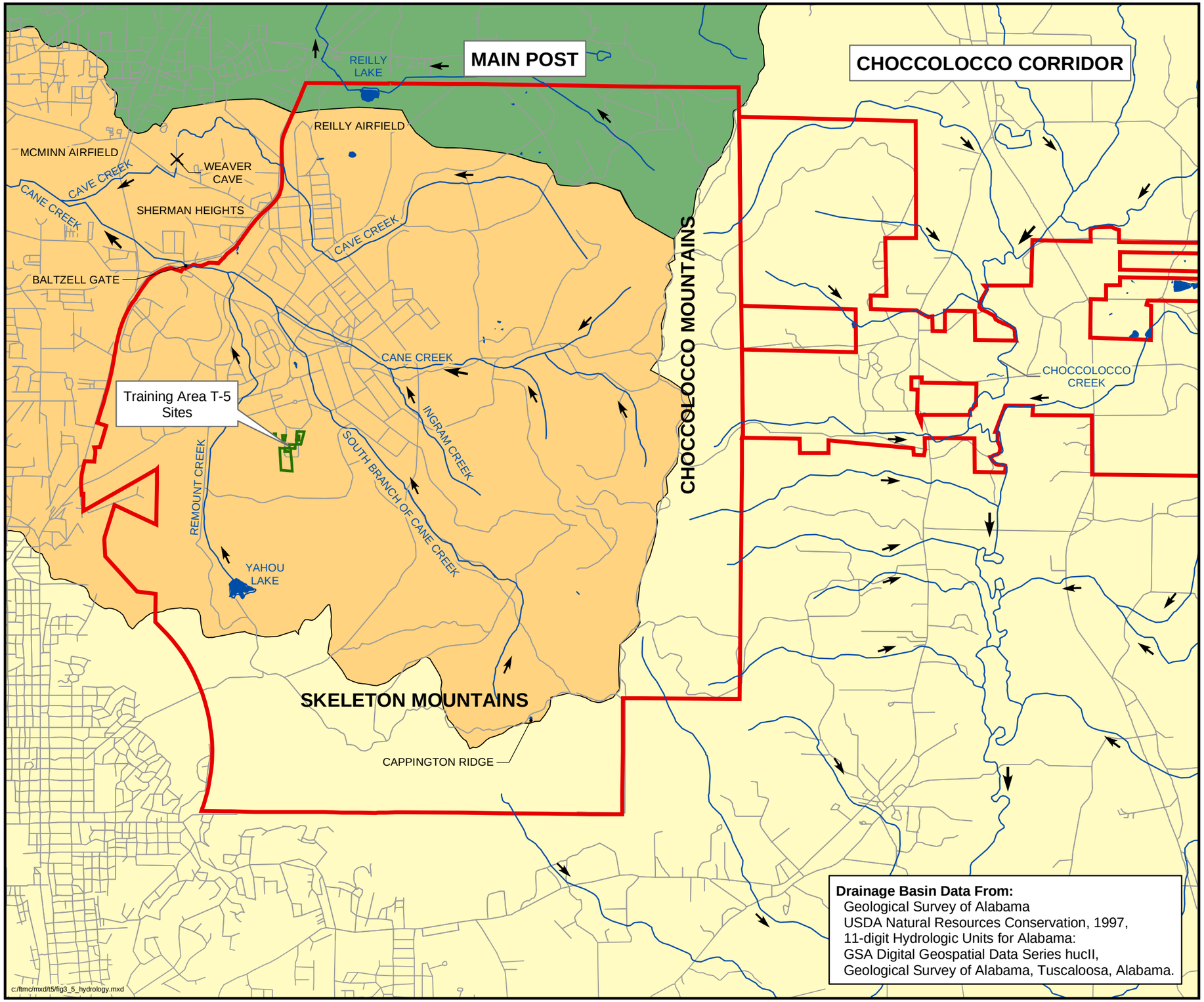
Figure 3-5

Surface Water Hydrology and Drainage Basins Map

Training Area T-5 Sites
Fort McClellan, Alabama



Drainage Basin Data From:
Geological Survey of Alabama
USDA Natural Resources Conservation, 1997,
11-digit Hydrologic Units for Alabama:
GSA Digital Geospatial Data Series hucII,
Geological Survey of Alabama, Tuscaloosa, Alabama.

Legend

- Surface Water Flow Direction
- Cave
- Roads
- Surface Drainage Feature
- Main Post and Choccolocco Corridor Boundaries
- Parcel Boundary
- Ponds and Lakes
- Cane Creek Drainage Basin
- Tallasseehatchee Creek Drainage Basin
- Choccolocco Creek Drainage Basin

4,500 0 4,500 Feet

NAD83 State Plane feet

N

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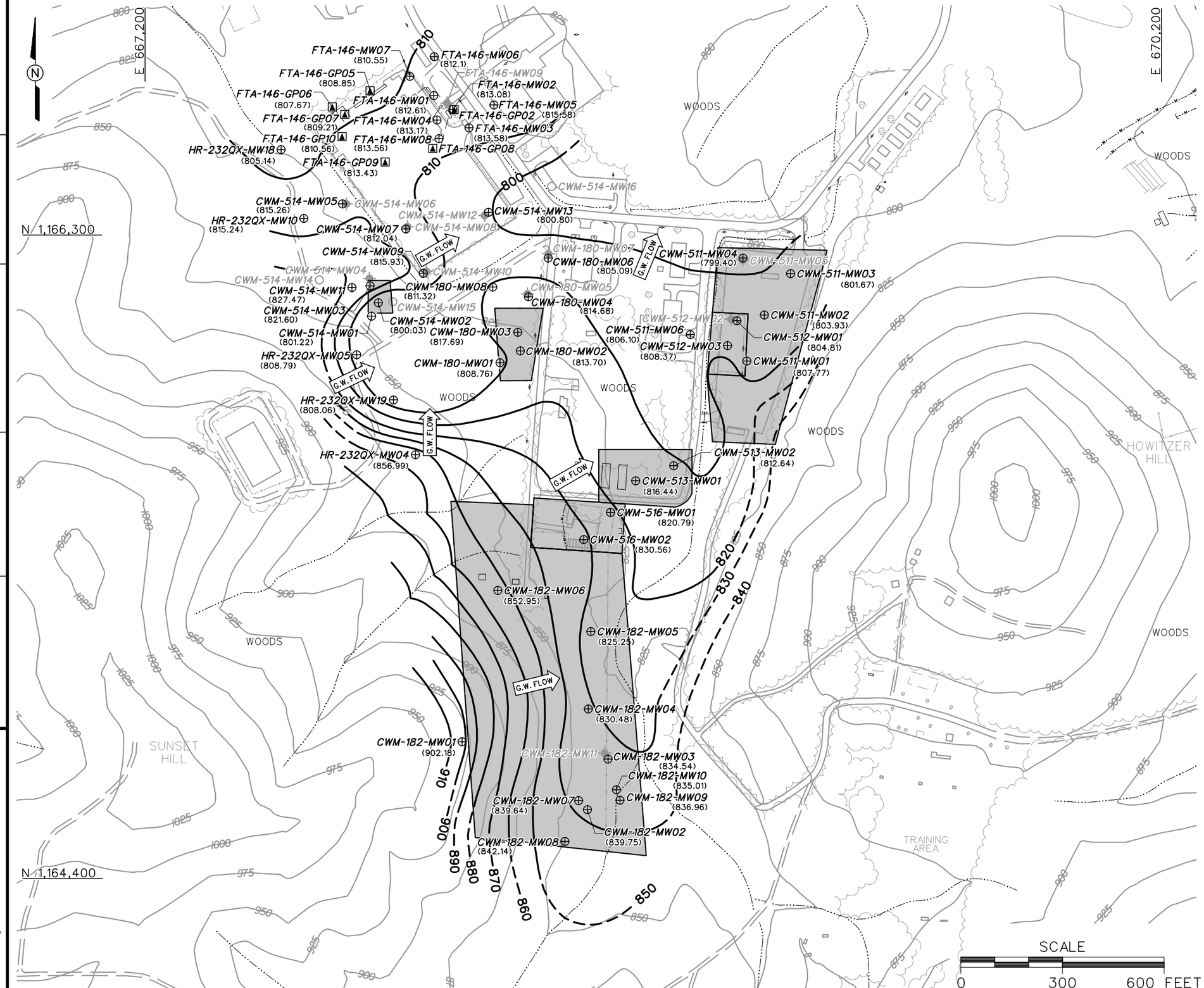
U.S. Army Corps of Engineers Mobile District

Contract No. DACA21-96-D-0018



LEGEND

- UNIMPROVED ROAD
- PAVED ROAD AND PARKING
- BUILDING
- TOPOGRAPHIC CONTOUR (CONTOUR INTERVAL - 25 FOOT)
- GROUNDWATER ELEVATION CONTOUR (DASHED WHERE INFERRED)
- (807.77) GROUNDWATER ELEVATION (FT MSL) (MAY 6, 2004)
- G.W. FLOW GROUNDWATER FLOW DIRECTION
- TREES / TREELINE
- PARCEL BOUNDARY
- CULVERT WITH HEADWALL
- SURFACE DRAINAGE / CREEK
- MANMADE SURFACE DRAINAGE FEATURE
- FENCE
- UTILITY POLE
- PROPOSED MONITORING WELL LOCATION
- TEMPORARY MONITORING WELL LOCATION
- RESIDUUM MONITORING WELL LOCATION
- BEDROCK MONITORING WELL LOCATION

SCALE

0 300 600 FEET

FIGURE 3-6
GROUNDWATER ELEVATION MAP
RESIDUUM MONITORING WELLS
MAY 2004
TRAINING AREA T-5 SITES
PARCELS 180(7), 182(7), 511(7), 512(7), 513(7), 514(7), AND 516(7)

U. S. ARMY CORPS OF ENGINEERS
MOBILE DISTRICT
FORT McCLELLAN
CALHOUN COUNTY, ALABAMA
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DWG. NO.: ...\838936es.148
PROJ. NO.: 838936
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PROJ. MGR.: J. YACOUB
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ENGR. CHCK. BY: S. MORAN
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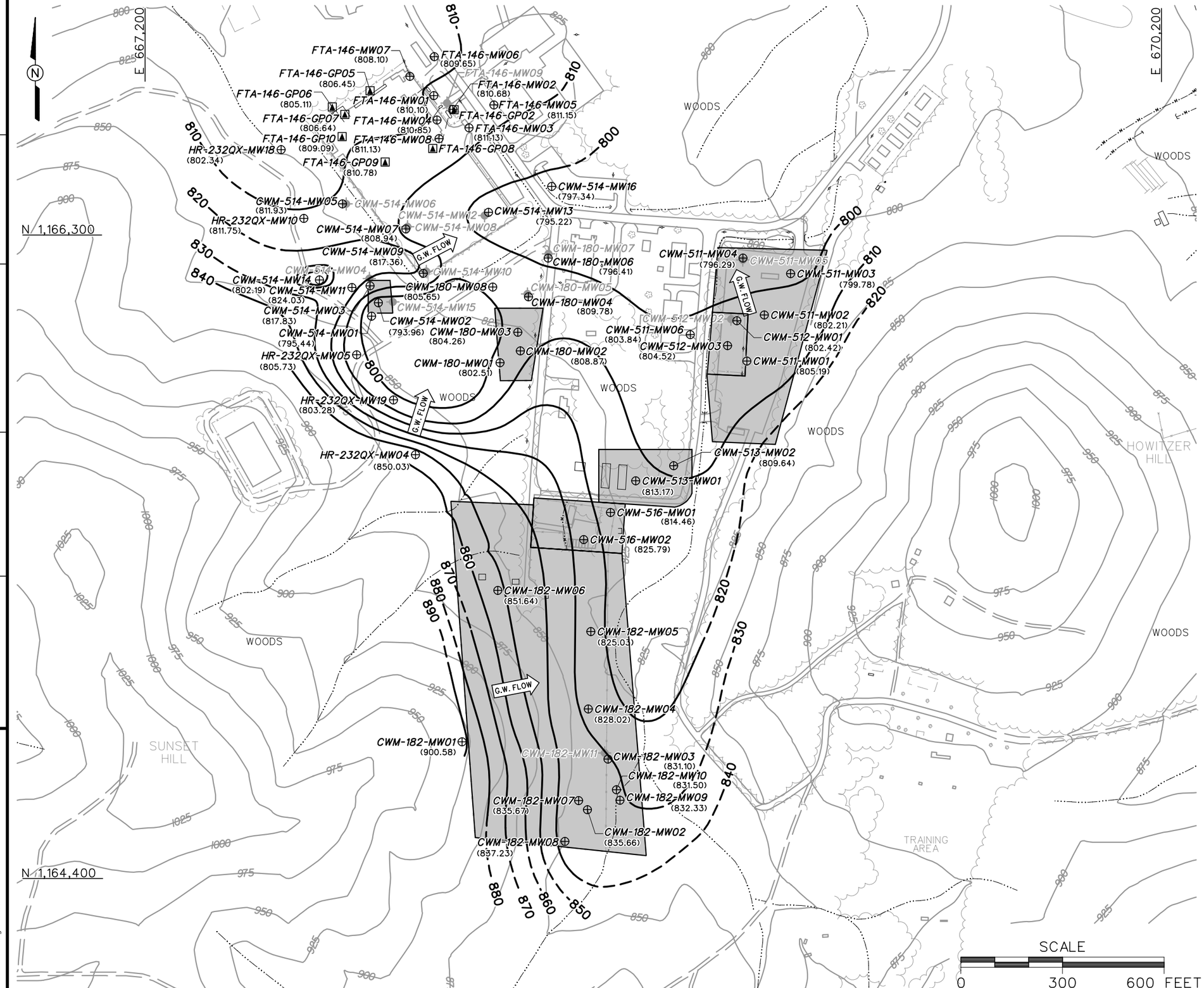


LEGEND

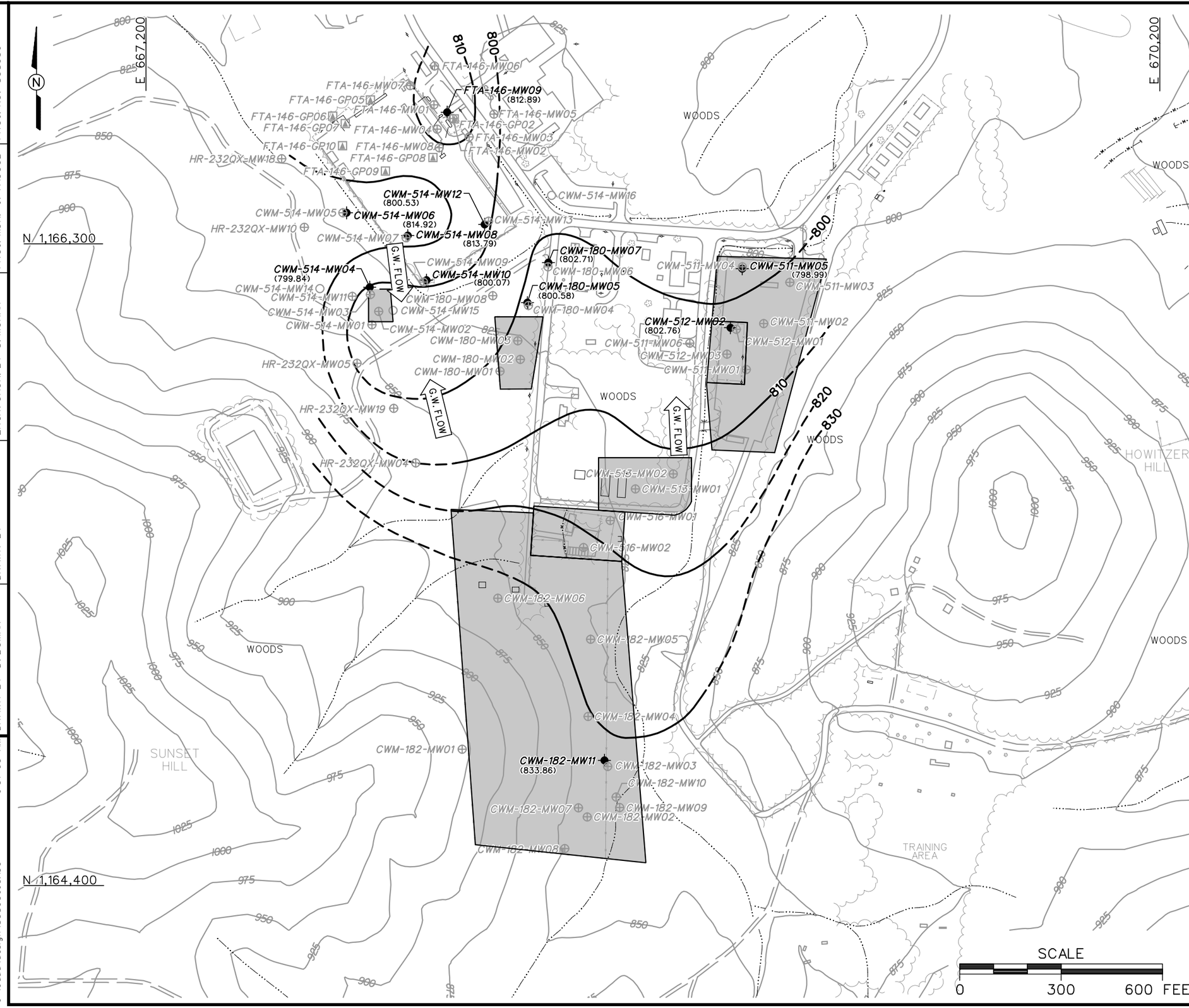
- UNIMPROVED ROAD
- PAVED ROAD AND PARKING
- BUILDING
- TOPOGRAPHIC CONTOUR (CONTOUR INTERVAL - 25 FOOT)
- GROUNDWATER ELEVATION CONTOUR (DASHED WHERE INFERRED)
- (805.19) GROUNDWATER ELEVATION (FT MSL) (SEPTEMBER 1-2, 2004)
- G.W. FLOW GROUNDWATER FLOW DIRECTION
- TREES / TREELINE
- PARCEL BOUNDARY
- CULVERT WITH HEADWALL
- SURFACE DRAINAGE / CREEK
- MANMADE SURFACE DRAINAGE FEATURE
- FENCE
- UTILITY POLE
- TEMPORARY MONITORING WELL LOCATION
- RESIDUUM MONITORING WELL LOCATION
- BEDROCK MONITORING WELL LOCATION

FIGURE 3-7
GROUNDWATER ELEVATION MAP
RESIDUUM MONITORING WELLS
SEPTEMBER 2004
TRAINING AREA T-5 SITES
PARCELS 180(7), 182(7), 511(7), 512(7), 513(7), 514(7), AND 516(7)

U. S. ARMY CORPS OF ENGINEERS
MOBILE DISTRICT
FORT McCLELLAN
CALHOUN COUNTY, ALABAMA
Contract No. DACA21-96-D-0018

Shaw Environmental, Inc.

DWG. NO.: ...\838936es.181 | PROJ. NO.: 838936
INITIATOR: B. HEDBERG | PROJ. MGR.: J. YACOUB
DRAFT. CHCK. BY: | ENGR. CHCK. BY: S. MORAN
DATE LAST REV.: | DRAWN BY:
STARTING DATE: 09/13/04 | DRAWN BY: D. BOMAR
12/9/2004 9:32:35 AM dbomar c:\cadd\design\838936es.181



LEGEND

- UNIMPROVED ROAD
- PAVED ROAD AND PARKING
- BUILDING
- TOPOGRAPHIC CONTOUR (CONTOUR INTERVAL - 25 FOOT)
- GROUNDWATER ELEVATION CONTOUR (DASHED WHERE INFERRED)
- (798.99) GROUNDWATER ELEVATION (FT MSL) (MAY 6, 2004)
- G.W. FLOW GROUNDWATER FLOW DIRECTION
- TREES / TREELINE
- PARCEL BOUNDARY
- CULVERT WITH HEADWALL
- SURFACE DRAINAGE / CREEK
- MANMADE SURFACE DRAINAGE FEATURE
- FENCE
- UTILITY POLE
- PROPOSED MONITORING WELL LOCATION
- TEMPORARY MONITORING WELL LOCATION
- RESIDUUM MONITORING WELL LOCATION
- BEDROCK MONITORING WELL LOCATION

FIGURE 3-8
GROUNDWATER ELEVATION MAP
BEDROCK MONITORING WELLS
MAY 2004
TRAINING AREA T-5 SITES
PARCELS 180(7), 182(7), 511(7), 512(7), 513(7), 514(7), AND 516(7)

U. S. ARMY CORPS OF ENGINEERS
MOBILE DISTRICT
FORT McCLELLAN
CALHOUN COUNTY, ALABAMA
Contract No. DACA21-96-D-0018

Shaw™ Shaw Environmental, Inc.

DWG. NO.: ...\838936es.150	INITIATOR: B. HEDBERG	DRAFT. CHCK. BY:	DATE LAST REV.:
PROJ. NO.: 838936	PROJ. MGR.: J. YACOUB	ENGR. CHCK. BY: S. MORAN	DRAWN BY:
STARTING DATE: 05/18/04	DRAWN BY: D. BOMAR		
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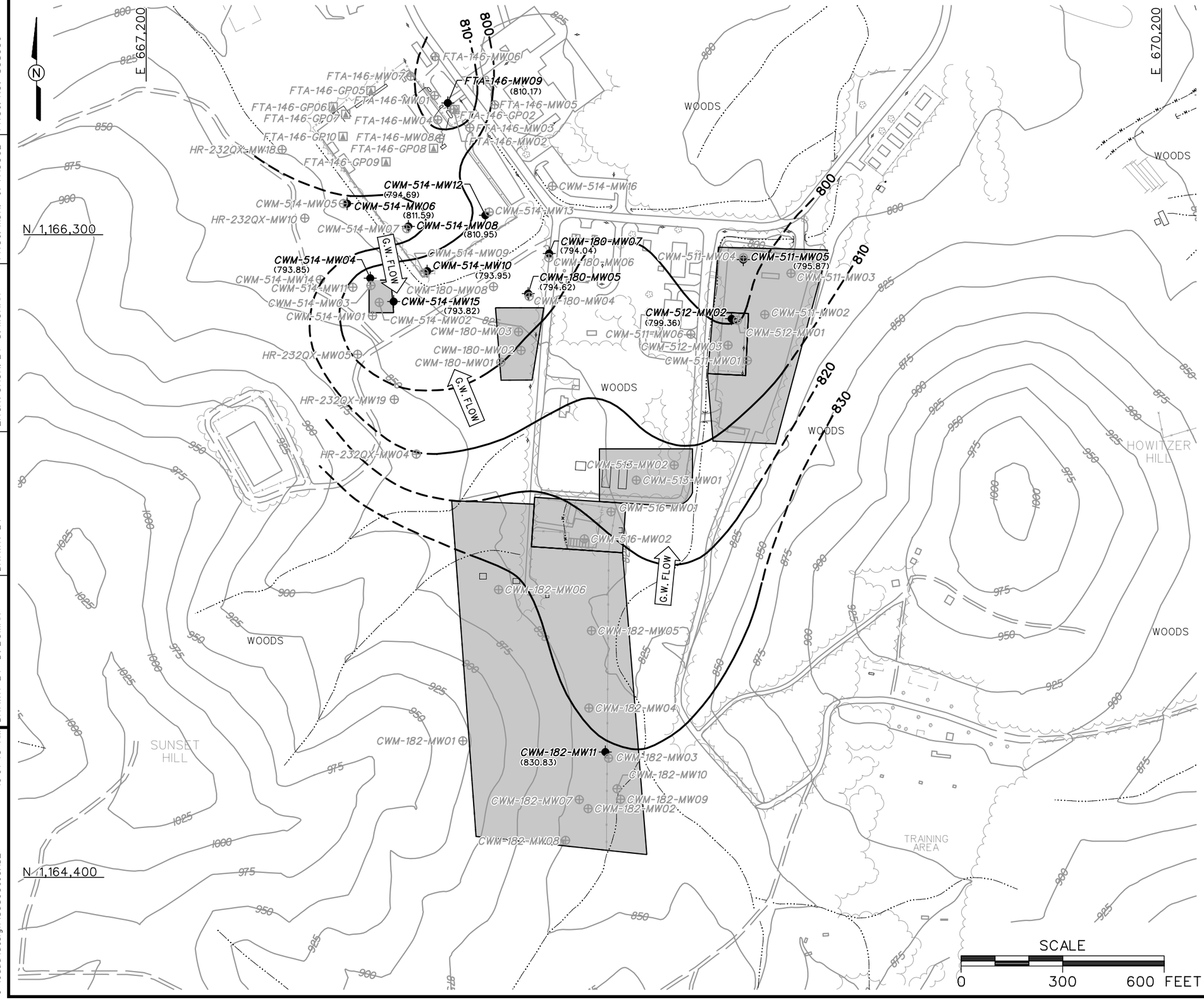

LEGEND

- UNIMPROVED ROAD
- PAVED ROAD AND PARKING
- BUILDING
- TOPOGRAPHIC CONTOUR (CONTOUR INTERVAL - 25 FOOT)
- GROUNDWATER ELEVATION CONTOUR (DASHED WHERE INFERRED)
- (795.87) GROUNDWATER ELEVATION (FT MSL) (SEPTEMBER 1-2, 2004)
- G.W. FLOW GROUNDWATER FLOW DIRECTION
- TREES / TREELINE
- PARCEL BOUNDARY
- CULVERT WITH HEADWALL
- SURFACE DRAINAGE / CREEK
- MANMADE SURFACE DRAINAGE FEATURE
- FENCE
- UTILITY POLE
- TEMPORARY MONITORING WELL LOCATION
- RESIDUUM MONITORING WELL LOCATION
- BEDROCK MONITORING WELL LOCATION

SCALE

0 300 600 FEET

FIGURE 3-9
GROUNDWATER ELEVATION MAP BEDROCK MONITORING WELLS SEPTEMBER 2004 TRAINING AREA T-5 SITES PARCELS 180(7), 182(7), 511(7), 512(7), 513(7), 514(7), AND 516(7)

U. S. ARMY CORPS OF ENGINEERS
MOBILE DISTRICT
FORT McCLELLAN
CALHOUN COUNTY, ALABAMA
Contract No. DACA21-96-D-0018

Shaw™ Shaw Environmental, Inc.

DWG. NO.: ...\838936es.182	INITIATOR: B. HEDBERG	DRAFT. CHCK. BY:	DATE LAST REV.:
PROJ. NO.: 838936	PROJ. MGR.: J. YACOUB	ENGR. CHCK. BY: S. MORAN	DRAWN BY:
STARTING DATE: 09/13/04	DRAWN BY: D. BOMAR		
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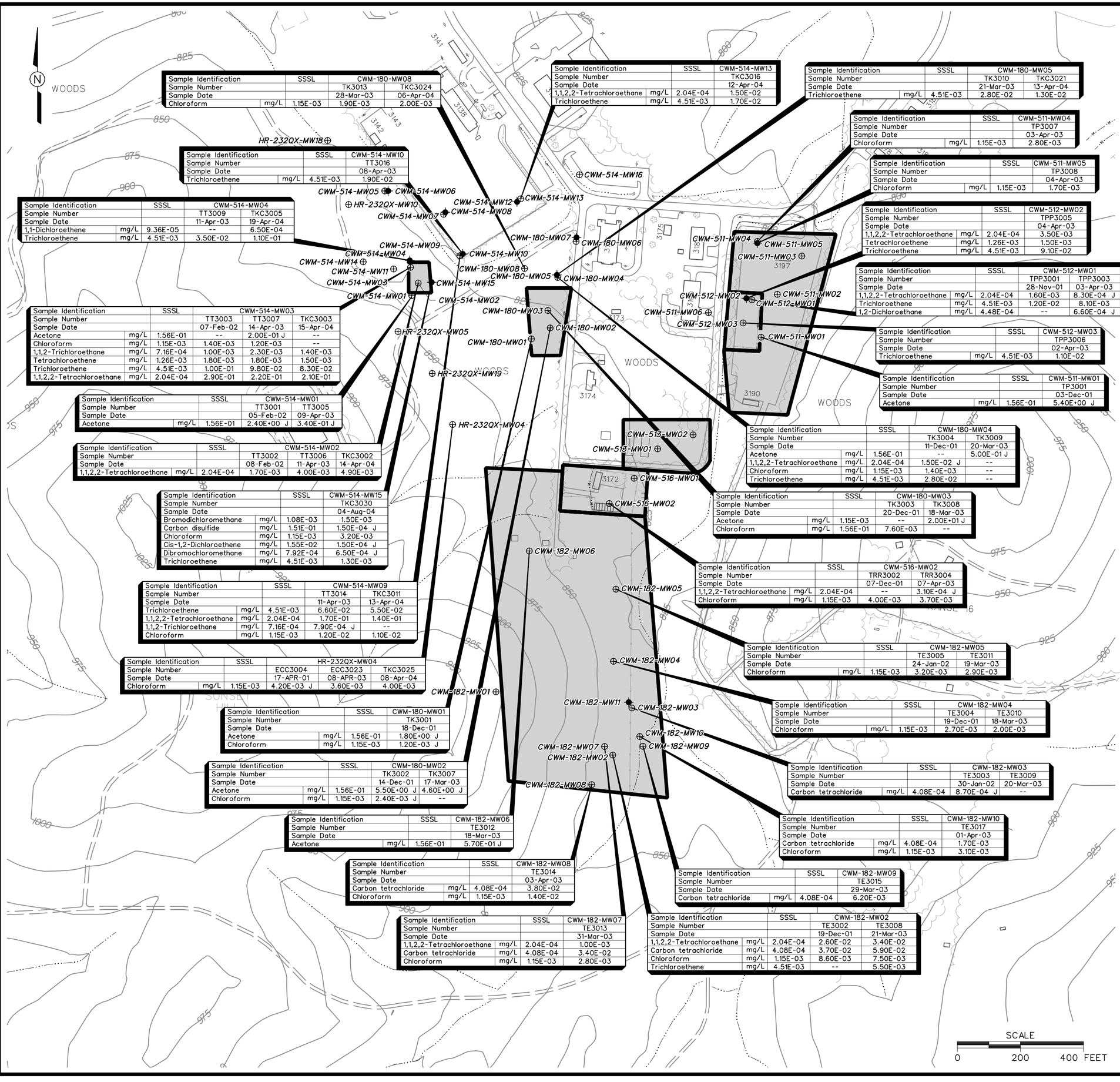

Sample Identification		SSSL	CWM-180-MW08	
Sample Number			TK3013	TKC3024
Sample Date			28-Mar-03	06-Apr-04
Chloroform	mg/L	1.15E-03	1.90E-03	2.00E-03

Sample Identification		SSSL	CWM-514-MW13
Sample Number			TKC3016
Sample Date			12-Apr-04
1,1,2,2-Tetrachloroethane	mg/L	2.04E-04	1.50E-02
Trichloroethene	mg/L	4.51E-03	1.70E-02

Sample Identification		SSSL	CWM-180-MW05	
Sample Number			TK3010	TKC3021
Sample Date			21-Mar-03	13-Apr-04
Trichloroethene	mg/L	4.51E-03	2.80E-02	1.30E-02

Sample Identification		SSSL	CWM-514-MW10
Sample Number			TT3016
Sample Date			08-Apr-03
Trichloroethene	mg/L	4.51E-03	1.90E-02

Sample Identification		SSSL	CWM-511-MW04
Sample Number			TP3007
Sample Date			03-Apr-03
Chloroform	mg/L	1.15E-03	2.80E-03

Sample Identification		SSSL	CWM-511-MW05
Sample Number			TP3008
Sample Date			04-Apr-03
Chloroform	mg/L	1.15E-03	1.70E-03

Sample Identification		SSSL	CWM-514-MW04	
Sample Number			TT3009	TKC3005
Sample Date			11-Apr-03	19-Apr-04
1,1-Dichloroethene	mg/L	9.36E-05	--	6.50E-04
Trichloroethene	mg/L	4.51E-03	3.50E-02	1.10E-01

Sample Identification		SSSL	CWM-512-MW02
Sample Number			TPP3005
Sample Date			04-Apr-03
1,1,2,2-Tetrachloroethane	mg/L	2.04E-04	3.50E-03
Tetrachloroethene	mg/L	1.26E-03	1.50E-03
Trichloroethene	mg/L	4.51E-03	9.10E-02

Sample Identification		SSSL	CWM-512-MW01	
Sample Number			TPP3001	TPP3003
Sample Date			28-Nov-01	03-Apr-03
1,1,2,2-Tetrachloroethane	mg/L	2.04E-04	1.60E-03	8.30E-04 J
Trichloroethene	mg/L	4.51E-03	1.20E-02	8.10E-03
1,2-Dichloroethane	mg/L	4.48E-04	--	6.60E-04 J

Sample Identification		SSSL	CWM-514-MW03		
Sample Number			TT3003	TT3007	TKC3003
Sample Date			07-Feb-02	14-Apr-03	15-Apr-04
Acetone	mg/L	1.56E-01	--	2.00E-01 J	--
Chloroform	mg/L	1.15E-03	1.40E-03	1.20E-03	--
1,1,2-Trichloroethane	mg/L	7.16E-04	1.00E-03	2.30E-03	1.40E-03
Tetrachloroethene	mg/L	1.26E-03	1.80E-03	1.80E-03	1.50E-03
Trichloroethene	mg/L	4.51E-03	1.00E-01	9.80E-02	8.30E-02
1,1,2,2-Tetrachloroethane	mg/L	2.04E-04	2.90E-01	2.20E-01	2.10E-01

Sample Identification		SSSL	CWM-512-MW03
Sample Number			TPP3006
Sample Date			02-Apr-03
Trichloroethene	mg/L	4.51E-03	1.10E-02

Sample Identification		SSSL	CWM-511-MW01
Sample Number			TP3001
Sample Date			03-Dec-01
Acetone	mg/L	1.56E-01	5.40E+00 J

Sample Identification		SSSL	CWM-514-MW01	
Sample Number			TT3001	TT3005
Sample Date			05-Feb-02	09-Apr-03
Acetone	mg/L	1.56E-01	2.40E+00 J	3.40E-01 J

Sample Identification		SSSL	CWM-180-MW04	
Sample Number			TK3004	TK3009
Sample Date			11-Dec-01	20-Mar-03
Acetone	mg/L	1.56E-01	--	5.00E-01 J
1,1,2,2-Tetrachloroethane	mg/L	2.04E-04	1.50E-02 J	--
Chloroform	mg/L	1.15E-03	1.40E-03	--
Trichloroethene	mg/L	4.51E-03	2.80E-02	--

Sample Identification		SSSL	CWM-514-MW02		
Sample Number			TT3002	TT3006	TKC3002
Sample Date			08-Feb-02	11-Apr-03	14-Apr-04
1,1,2,2-Tetrachloroethane	mg/L	2.04E-04	1.70E-03	4.00E-03	4.90E-03

Sample Identification		SSSL	CWM-514-MW15
Sample Number			TKC3030
Sample Date			04-Aug-04
Bromodichloromethane	mg/L	1.08E-03	1.50E-03
Carbon disulfide	mg/L	1.51E-01	1.50E-04 J
Chloroform	mg/L	1.15E-03	3.20E-03
Cis-1,2-Dichloroethene	mg/L	1.55E-02	1.50E-04 J
Dibromochloromethane	mg/L	7.92E-04	6.50E-04 J
Trichloroethene	mg/L	4.51E-03	1.30E-03

Sample Identification		SSSL	CWM-180-MW03	
Sample Number			TK3003	TK3008
Sample Date			20-Dec-01	18-Mar-03
Acetone	mg/L	1.15E-03	--	2.00E+01 J
Chloroform	mg/L	1.56E-01	7.60E-03	--

Sample Identification		SSSL	CWM-516-MW02	
Sample Number			TRR3002	TRR3004
Sample Date			07-Dec-01	07-Apr-03
1,1,2,2-Tetrachloroethane	mg/L	2.04E-04	--	3.10E-04 J
Chloroform	mg/L	1.15E-03	4.00E-03	3.70E-03

Sample Identification		SSSL	CWM-514-MW09	
Sample Number			TT3014	TKC3011
Sample Date			11-Apr-03	13-Apr-04
Trichloroethene	mg/L	4.51E-03	6.60E-02	5.50E-02
1,1,2,2-Tetrachloroethane	mg/L	2.04E-04	1.70E-01	1.40E-01
1,1,2-Trichloroethane	mg/L	7.16E-04	7.90E-04 J	--
Chloroform	mg/L	1.15E-03	1.20E-02	1.10E-02

Sample Identification		SSSL	CWM-182-MW05	
Sample Number			TE3005	TE3011
Sample Date			24-Jan-02	19-Mar-03
Chloroform	mg/L	1.15E-03	3.20E-03	2.90E-03

Sample Identification		SSSL	HR-232QX-MW04		
Sample Number			ECC3004	ECC3023	TKC3025
Sample Date			17-APR-01	08-APR-03	08-Apr-04
Chloroform	mg/L	1.15E-03	4.20E-03 J	3.60E-03	4.00E-03

Sample Identification		SSSL	CWM-182-MW04	
Sample Number			TE3004	TE3010
Sample Date			19-Dec-01	18-Mar-03
Chloroform	mg/L	1.15E-03	2.70E-03	2.00E-03

Sample Identification		SSSL	CWM-180-MW01
Sample Number			TK3001
Sample Date			18-Dec-01
Acetone	mg/L	1.56E-01	1.80E+00 J
Chloroform	mg/L	1.15E-03	1.20E-03 J

Sample Identification		SSSL	CWM-182-MW03	
Sample Number			TE3003	TE3009
Sample Date			30-Jan-02	20-Mar-03
Carbon tetrachloride	mg/L	4.08E-04	8.70E-04 J	--

Sample Identification		SSSL	CWM-180-MW02	
Sample Number			TK3002	TK3007
Sample Date			14-Dec-01	17-Mar-03
Acetone	mg/L	1.56E-01	5.50E+00 J	4.60E+00 J
Chloroform	mg/L	1.15E-03	2.40E-03 J	--

Sample Identification		SSSL	CWM-182-MW10
Sample Number			TE3017
Sample Date			01-Apr-03
Carbon tetrachloride	mg/L	4.08E-04	1.70E-03
Chloroform	mg/L	1.15E-03	3.10E-03

Sample Identification		SSSL	CWM-182-MW06
Sample Number			TE3012
Sample Date			18-Mar-03
Acetone	mg/L	1.56E-01	5.70E-01 J

Sample Identification		SSSL	CWM-182-MW08
Sample Number			TE3014
Sample Date			03-Apr-03
Carbon tetrachloride	mg/L	4.08E-04	3.80E-02
Chloroform	mg/L	1.15E-03	1.40E-02

Sample Identification		SSSL	CWM-182-MW09
Sample Number			TE3015
Sample Date			29-Mar-03
Carbon tetrachloride	mg/L	4.08E-04	6.20E-03

Sample Identification		SSSL	CWM-182-MW07
Sample Number			TE3013
Sample Date			31-Mar-03
1,1,2,2-Tetrachloroethane	mg/L	2.04E-04	1.00E-03
Carbon tetrachloride	mg/L	4.08E-04	3.40E-02
Chloroform	mg/L	1.15E-03	2.80E-03

Sample Identification		SSSL	CWM-182-MW02	
Sample Number			TE3002	TE3008
Sample Date			19-Dec-01	21-Mar-03
1,1,2,2-Tetrachloroethane	mg/L	2.04E-04	2.60E-02	3.40E-02
Carbon tetrachloride	mg/L	4.08E-04	3.70E-02	5.90E-02
Chloroform	mg/L	1.15E-03	8.60E-03	7.50E-03
Trichloroethene	mg/L	4.51E-03	--	5.50E-03

LEGEND

- UNIMPROVED ROAD
- PAVED ROAD AND PARKING
- BUILDING
- TOPOGRAPHIC CONTOURS (CONTOUR INTERVAL - 25 FOOT)
- TREES / TREELINE
- PARCEL BOUNDARY
- CULVERT WITH HEADWALL
- SURFACE DRAINAGE / CREEK
- MANMADE SURFACE DRAINAGE FEATURE
- FENCE
- UTILITY POLE
- RESIDUUM MONITORING WELL LOCATION
- BEDROCK MONITORING WELL LOCATION
- J — COMPOUND WAS POSITIVELY IDENTIFIED; REPORTED VALUE IS AN ESTIMATED CONCENTRATION
- mg/L — MILLIGRAMS PER LITER
- NOT DETECTED OR CONCENTRATION WAS BELOW SSSL

NOTE:

1. "B"-FLAGGED DATA NOT SHOWN.

SCALE

0 200 400 FEET

FIGURE 4-1
VOCs EXCEEDING SSSLs IN GROUNDWATER (ALL DATA) TRAINING AREA T-5 SITES PARCELS 180(7), 182(7), 511(7), 512(7), 513(7), 514(7), AND 516(7)

U. S. ARMY CORPS OF ENGINEERS
MOBILE DISTRICT
FORT McCLELLAN
CALHOUN COUNTY, ALABAMA
Contract No. DACA21-96-D-0018

Shaw™ Shaw Environmental, Inc.

DWG. NO.: ...\838936es147 | PROJ. NO.: 838936 | INITIATOR: T. WINTON | PROJ. MGR.: J. YACOUB | DRAFT. CHCK. BY: | ENGR. CHCK. BY: T. WINTON | DATE LAST REV.: | DRAWN BY: | STARTING DATE: 12/09/04 | DRAWN BY: D. BOMAR

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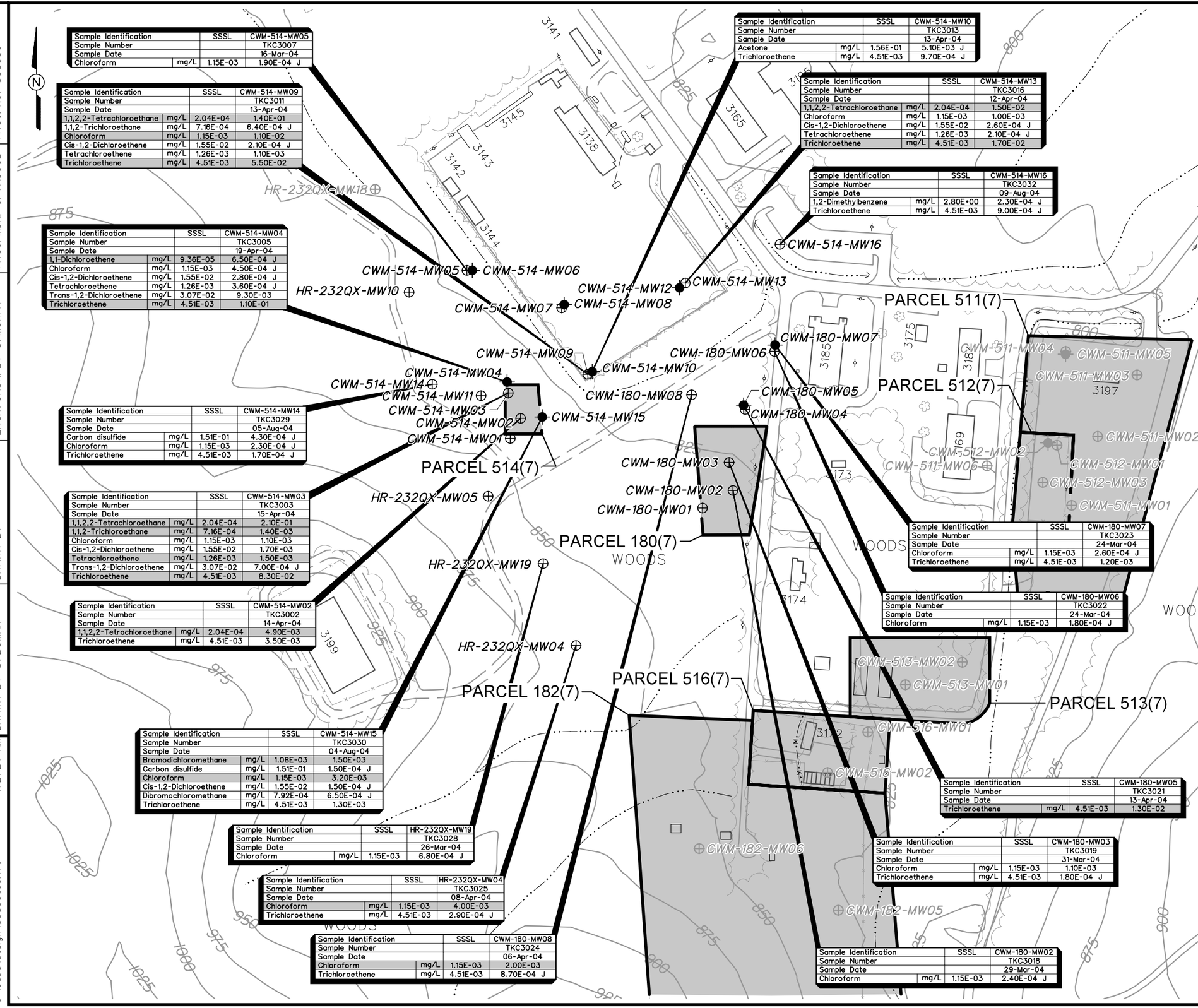

Sample Identification		SSSL	CWM-514-MW05
Sample Number			TKC3007
Sample Date			16-Mar-04
Chloroform	mg/L	1.15E-03	1.90E-04 J

Sample Identification		SSSL	CWM-514-MW09
Sample Number			TKC3011
Sample Date			13-Apr-04
1,1,2,2-Tetrachloroethane	mg/L	2.04E-04	1.40E-01
1,1,2-Trichloroethane	mg/L	7.16E-04	6.40E-04 J
Chloroform	mg/L	1.15E-03	1.10E-02
Cis-1,2-Dichloroethene	mg/L	1.55E-02	2.10E-04 J
Tetrachloroethene	mg/L	1.26E-03	1.10E-03
Trichloroethene	mg/L	4.51E-03	5.50E-02

Sample Identification		SSSL	CWM-514-MW04
Sample Number			TKC3005
Sample Date			19-Apr-04
1,1-Dichloroethene	mg/L	9.36E-05	6.50E-04 J
Chloroform	mg/L	1.15E-03	4.50E-04 J
Cis-1,2-Dichloroethene	mg/L	1.55E-02	2.80E-04 J
Tetrachloroethene	mg/L	1.26E-03	3.60E-04 J
Trans-1,2-Dichloroethene	mg/L	3.07E-02	9.30E-03
Trichloroethene	mg/L	4.51E-03	1.10E-01

Sample Identification		SSSL	CWM-514-MW14
Sample Number			TKC3029
Sample Date			05-Aug-04
Carbon disulfide	mg/L	1.51E-01	4.30E-04 J
Chloroform	mg/L	1.15E-03	2.30E-04 J
Trichloroethene	mg/L	4.51E-03	1.70E-04 J

Sample Identification		SSSL	CWM-514-MW03
Sample Number			TKC3003
Sample Date			15-Apr-04
1,1,2,2-Tetrachloroethane	mg/L	2.04E-04	2.10E-01
1,1,2-Trichloroethane	mg/L	7.16E-04	1.40E-03
Chloroform	mg/L	1.15E-03	1.10E-03
Cis-1,2-Dichloroethene	mg/L	1.55E-02	1.70E-03
Tetrachloroethene	mg/L	1.26E-03	1.50E-03
Trans-1,2-Dichloroethene	mg/L	3.07E-02	7.00E-04 J
Trichloroethene	mg/L	4.51E-03	8.30E-02

Sample Identification		SSSL	CWM-514-MW02
Sample Number			TKC3002
Sample Date			14-Apr-04
1,1,2,2-Tetrachloroethane	mg/L	2.04E-04	4.90E-03
Trichloroethene	mg/L	4.51E-03	3.50E-03

Sample Identification		SSSL	CWM-514-MW15
Sample Number			TKC3030
Sample Date			04-Aug-04
Bromodichloromethane	mg/L	1.08E-03	1.50E-03
Carbon disulfide	mg/L	1.51E-01	1.50E-04 J
Chloroform	mg/L	1.15E-03	3.20E-03
Cis-1,2-Dichloroethene	mg/L	1.55E-02	1.50E-04 J
Dibromochloromethane	mg/L	7.92E-04	6.50E-04 J
Trichloroethene	mg/L	4.51E-03	1.30E-03

Sample Identification		SSSL	HR-232QX-MW19
Sample Number			TKC3028
Sample Date			26-Mar-04
Chloroform	mg/L	1.15E-03	6.80E-04 J

Sample Identification		SSSL	HR-232QX-MW04
Sample Number			TKC3025
Sample Date			08-Apr-04
Chloroform	mg/L	1.15E-03	4.00E-03
Trichloroethene	mg/L	4.51E-03	2.90E-04 J

Sample Identification		SSSL	CWM-180-MW08
Sample Number			TKC3024
Sample Date			06-Apr-04
Chloroform	mg/L	1.15E-03	2.00E-03
Trichloroethene	mg/L	4.51E-03	8.70E-04 J

Sample Identification		SSSL	CWM-514-MW10
Sample Number			TKC3013
Sample Date			13-Apr-04
Acetone	mg/L	1.56E-01	5.10E-03 J
Trichloroethene	mg/L	4.51E-03	9.70E-04 J

Sample Identification		SSSL	CWM-514-MW13
Sample Number			TKC3016
Sample Date			12-Apr-04
1,1,2,2-Tetrachloroethane	mg/L	2.04E-04	1.50E-02
Chloroform	mg/L	1.15E-03	1.00E-03
Cis-1,2-Dichloroethene	mg/L	1.55E-02	2.60E-04 J
Tetrachloroethene	mg/L	1.26E-03	2.10E-04 J
Trichloroethene	mg/L	4.51E-03	1.70E-02

Sample Identification		SSSL	CWM-514-MW16
Sample Number			TKC3032
Sample Date			09-Aug-04
1,2-Dimethylbenzene	mg/L	2.80E+00	2.30E-04 J
Trichloroethene	mg/L	4.51E-03	9.00E-04 J

Sample Identification		SSSL	CWM-180-MW07
Sample Number			TKC3023
Sample Date			24-Mar-04
Chloroform	mg/L	1.15E-03	2.60E-04 J
Trichloroethene	mg/L	4.51E-03	1.20E-03

Sample Identification		SSSL	CWM-180-MW06
Sample Number			TKC3022
Sample Date			24-Mar-04
Chloroform	mg/L	1.15E-03	1.80E-04 J

Sample Identification		SSSL	CWM-180-MW05
Sample Number			TKC3021
Sample Date			13-Apr-04
Trichloroethene	mg/L	4.51E-03	1.30E-02

Sample Identification		SSSL	CWM-180-MW03
Sample Number			TKC3019
Sample Date			31-Mar-04
Chloroform	mg/L	1.15E-03	1.10E-03
Trichloroethene	mg/L	4.51E-03	1.80E-04 J

Sample Identification		SSSL	CWM-180-MW02
Sample Number			TKC3018
Sample Date			29-Mar-04
Chloroform	mg/L	1.15E-03	2.40E-04 J

LEGEND

- UNIMPROVED ROAD
- PAVED ROAD AND PARKING
- BUILDING
- TOPOGRAPHIC CONTOUR (CONTOUR INTERVAL - 25 FOOT)
- TREES / TREELINE
- PARCEL BOUNDARY
- CULVERT WITH HEADWALL
- SURFACE DRAINAGE / CREEK
- MANMADE SURFACE DRAINAGE FEATURE
- FENCE
- UTILITY POLE
- TEMPORARY MONITORING WELL LOCATION
- RESIDUUM MONITORING WELL LOCATION
- BEDROCK MONITORING WELL LOCATION
- J — COMPOUND WAS POSITIVELY IDENTIFIED; REPORTED VALUE IS AN ESTIMATED CONCENTRATION
- mg/L — MILLIGRAMS PER LITER
- CONCENTRATION EXCEEDS SSSL

NOTE:

1. "B"-FLAGGED DATA NOT SHOWN.

SCALE

0 200 400 FEET

FIGURE 4-2

VOCs DETECTED IN GROUNDWATER
2004
TRAINING AREA T-5 SITES
PARCELS 180(7), 182(7), 511(7), 512(7), 513(7), 514(7), AND 516(7)

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DRAFT. CHCK. BY: | ENGR. CHCK. BY: S. MORAN
DATE LAST REV.: | DRAWN BY:
STARTING DATE: 05/13/04 | DRAWN BY: D. BOMAR
12/9/2004 11:21:24 AM
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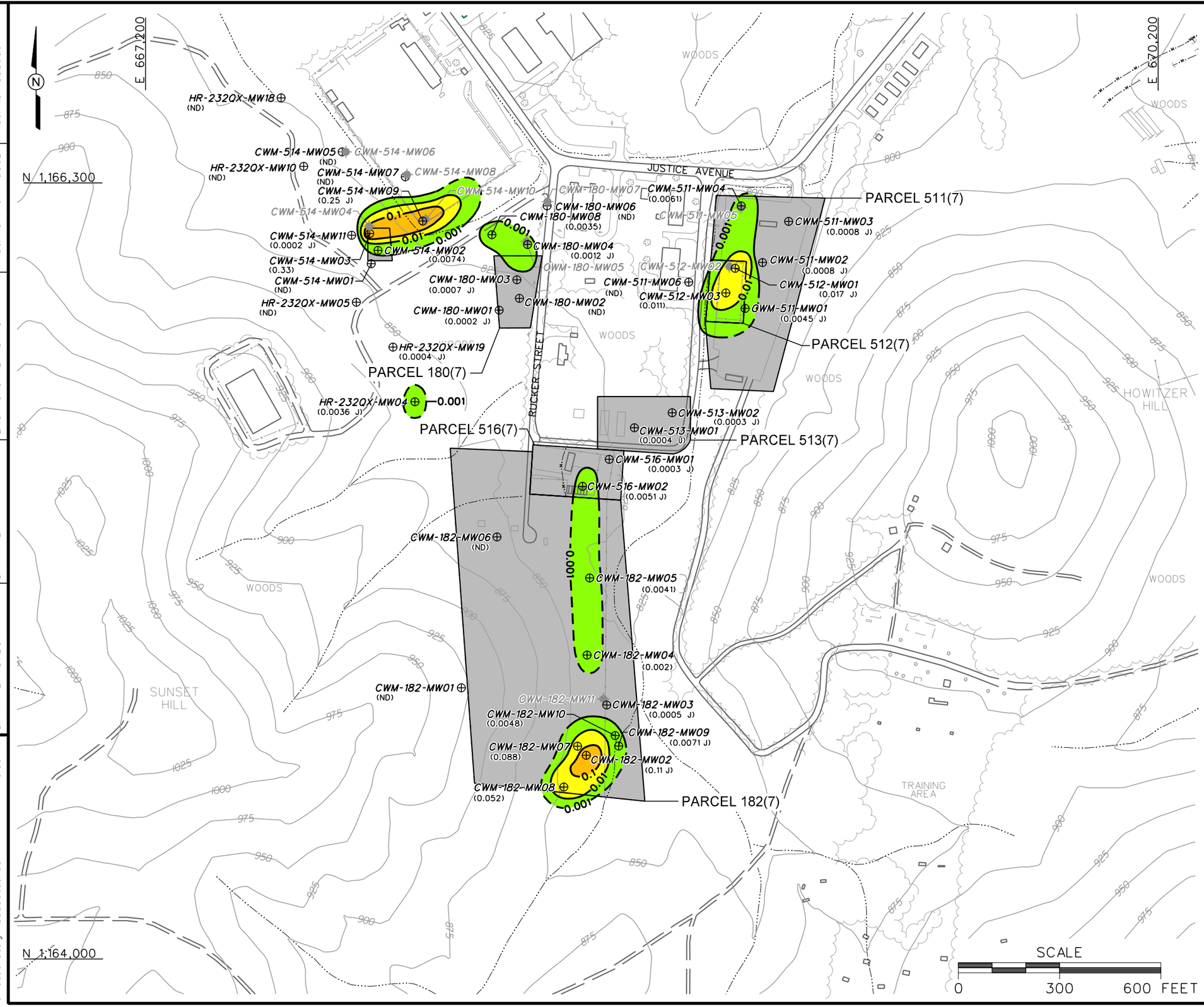

LEGEND

- UNIMPROVED ROAD
- PAVED ROAD AND PARKING
- BUILDING
- TOPOGRAPHIC CONTOURS (CONTOUR INTERVAL - 25 FOOT)
- TREES / TREELINE
- PARCEL BOUNDARY
- CULVERT WITH HEADWALL
- SURFACE DRAINAGE / CREEK
- MANMADE SURFACE DRAINAGE FEATURE
- FENCE
- UTILITY POLE
- ⊕ RESIDUUM MONITORING WELL LOCATION
- ◆ BEDROCK MONITORING WELL LOCATION
- (0.33) TOTAL CHLORINATED VOCs CONCENTRATION (mg/L)
- 0.1 CONCENTRATION IN MILLIGRAMS PER LITER (mg/L) (DASHED WHERE INFERRED)
- mg/L MILLIGRAMS PER LITER
- J REPORTED VALUE IS AN ESTIMATED CONCENTRATION
- ND NOT DETECTED

NOTE:

1. "B"-FLAGGED DATA AND METHYLENE CHLORIDE RESULTS NOT SHOWN.

SCALE
0 300 600 FEET

FIGURE 4-3
TOTAL CHLORINATED VOCs ISOPLETH MAP RESIDUUM MONITORING WELLS (2003) TRAINING AREA T-5 SITES PARCELS 180(7), 182(7), 511(7), 512(7), 513(7), 514(7), AND 516(7)

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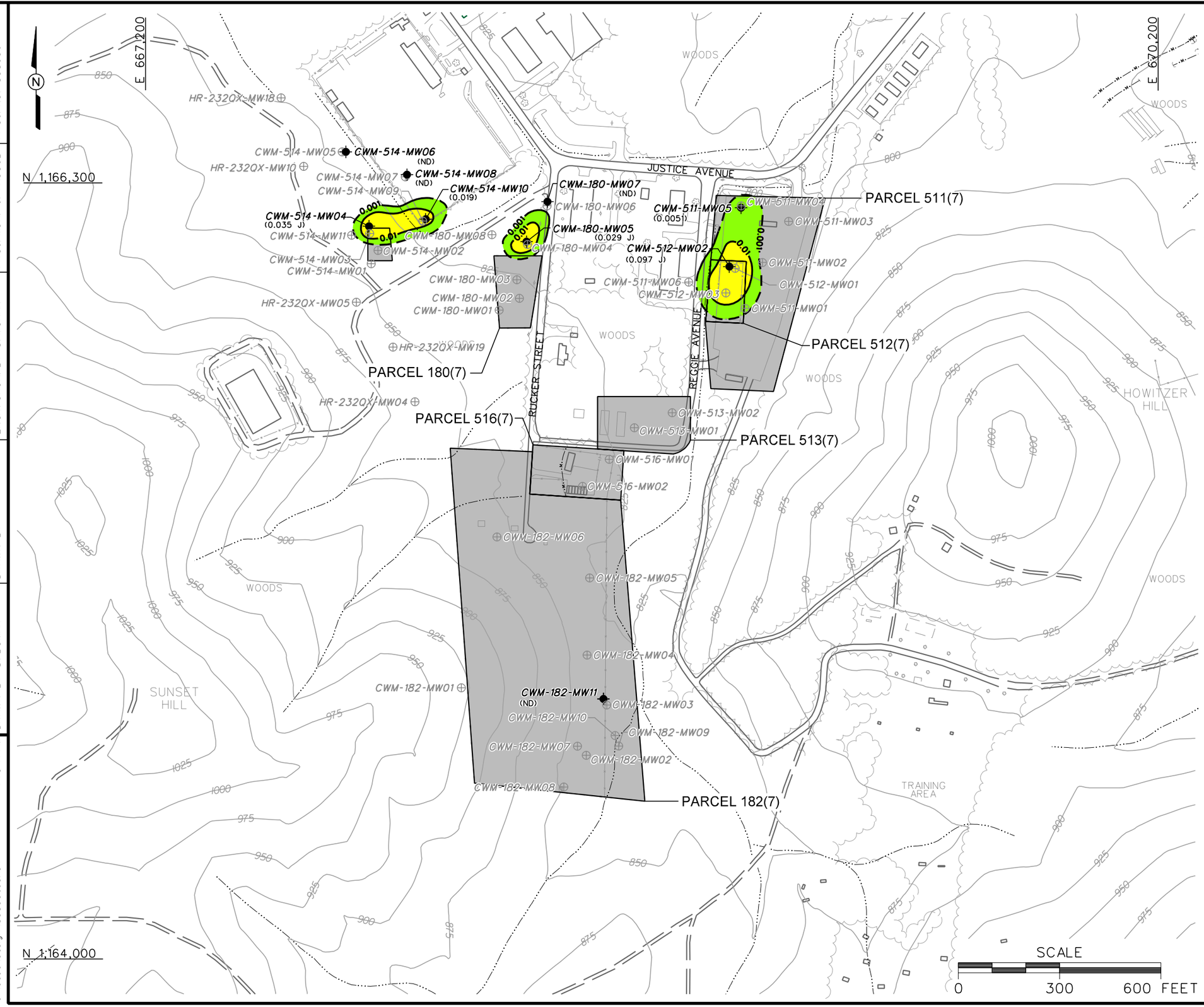

LEGEND

- UNIMPROVED ROAD
- PAVED ROAD AND PARKING
- BUILDING
- TOPOGRAPHIC CONTOURS (CONTOUR INTERVAL - 25 FOOT)
- TREES / TREELINE
- PARCEL BOUNDARY
- CULVERT WITH HEADWALL
- SURFACE DRAINAGE / CREEK
- MANMADE SURFACE DRAINAGE FEATURE
- FENCE
- UTILITY POLE
- RESIDUUM MONITORING WELL LOCATION
- BEDROCK MONITORING WELL LOCATION
- (0.0051) TOTAL CHLORINATED VOCs CONCENTRATION (mg/L)
- 0.01 CONCENTRATION IN MILLIGRAMS PER LITER (mg/L) (DASHED WHERE INFERRED)
- mg/L MILLIGRAMS PER LITER
- J REPORTED VALUE IS AN ESTIMATED CONCENTRATION
- ND NOT DETECTED

NOTE:

1. "B"-FLAGGED DATA AND METHYLENE CHLORIDE RESULTS NOT SHOWN.

FIGURE 4-4

TOTAL CHLORINATED VOCs
ISOPLETH MAP
BEDROCK MONITORING WELLS (2003)
TRAINING AREA T-5 SITES
PARCELS 180(7), 182(7), 511(7),
512(7), 513(7), 514(7), AND 516(7)

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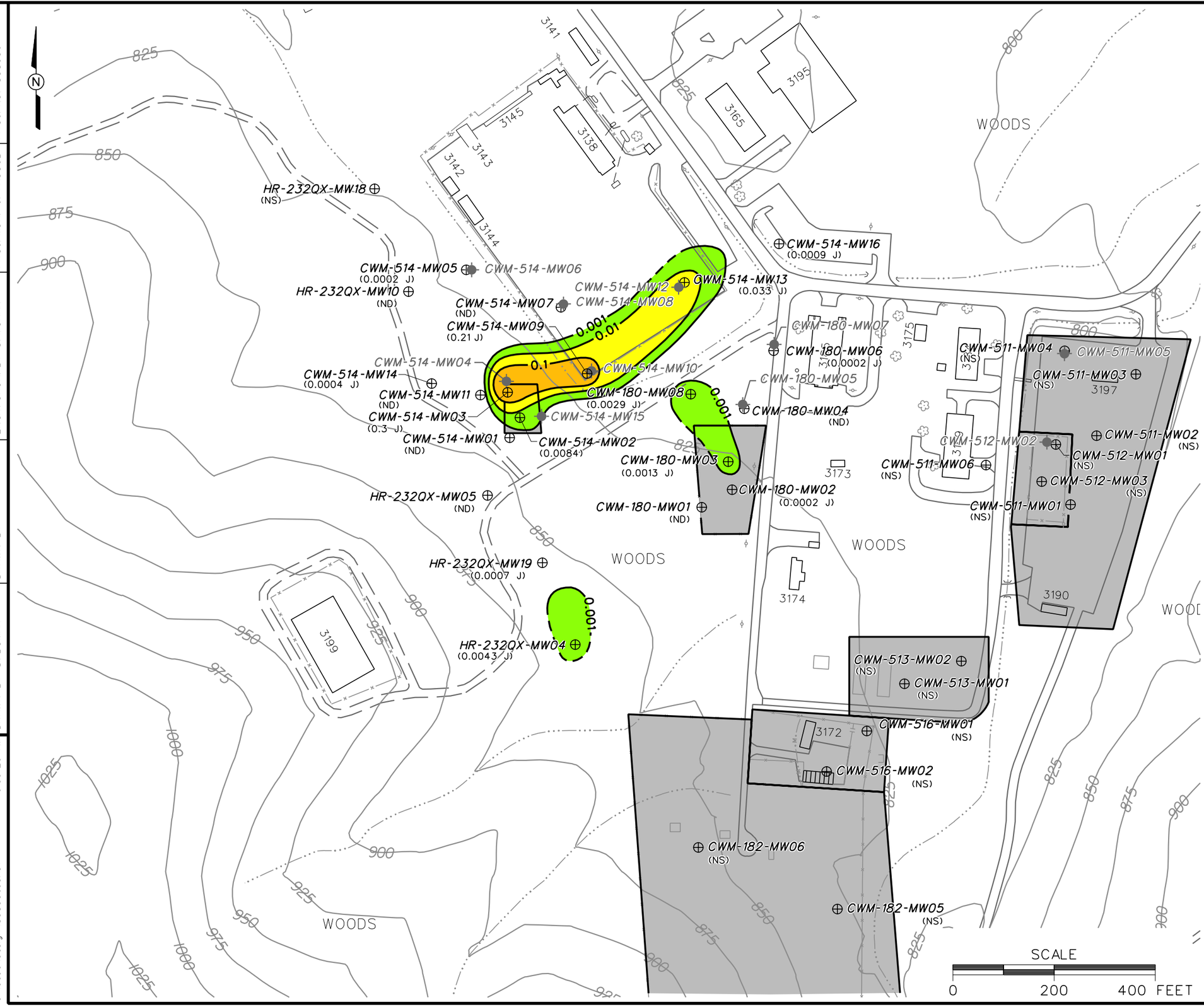

LEGEND

- UNIMPROVED ROAD
- PAVED ROAD AND PARKING
- BUILDING
- TOPOGRAPHIC CONTOUR (CONTOUR INTERVAL - 25 FOOT)
- TREES / TREELINE
- PARCEL BOUNDARY
- SURFACE DRAINAGE / CREEK
- FENCE
- UTILITY POLE
- TEMPORARY MONITORING WELL LOCATION
- RESIDUUM MONITORING WELL LOCATION
- BEDROCK MONITORING WELL LOCATION
- (0.03) TOTAL CHLORINATED VOCs CONCENTRATION (mg/L)
- 0.1 CONCENTRATION IN MILLIGRAMS PER LITER (mg/L) (DASHED WHERE INFERRED)
- mg/L MILLIGRAMS PER LITER
- J REPORTED VALUE IS AN ESTIMATED CONCENTRATION
- ND NOT DETECTED
- NS NOT SAMPLED

FIGURE 4-5
TOTAL CHLORINATED VOCs
ISOPLETH MAP
RESIDUUM MONITORING WELLS (2004)
TRAINING AREA T-5 SITES
PARCELS 180(7), 182(7), 511(7),
512(7), 513(7), 514(7), AND 516(7)

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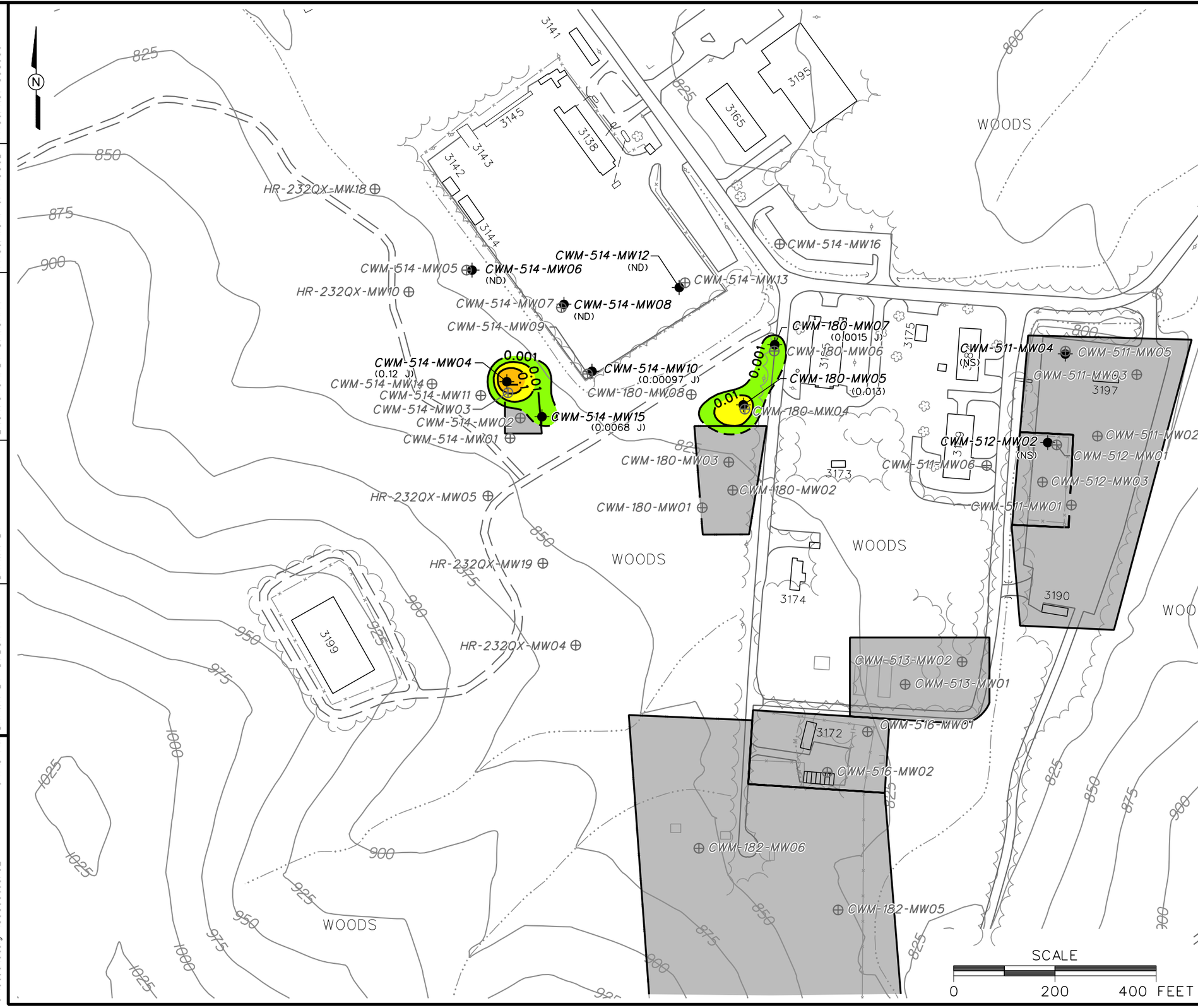

LEGEND

- UNIMPROVED ROAD
- PAVED ROAD AND PARKING
- BUILDING
- TOPOGRAPHIC CONTOUR (CONTOUR INTERVAL - 25 FOOT)
- TREES / TREELINE
- PARCEL BOUNDARY
- SURFACE DRAINAGE / CREEK
- FENCE
- UTILITY POLE
- TEMPORARY MONITORING WELL LOCATION
- RESIDUUM MONITORING WELL LOCATION
- BEDROCK MONITORING WELL LOCATION
- (0.013) TOTAL CHLORINATED VOCs CONCENTRATION (mg/L)
- 0.1 CONCENTRATION IN MILLIGRAMS PER LITER (mg/L) (DASHED WHERE INFERRED)
- mg/L MILLIGRAMS PER LITER
- J REPORTED VALUE IS AN ESTIMATED CONCENTRATION
- ND NOT DETECTED
- NS NOT SAMPLED

SCALE

0 200 400 FEET

FIGURE 4-6
TOTAL CHLORINATED VOCs
ISOPLETH MAP
BEDROCK MONITORING WELLS (2004)
TRAINING AREA T-5 SITES
PARCELS 180(7), 182(7), 511(7),
512(7), 513(7), 514(7), AND 516(7)

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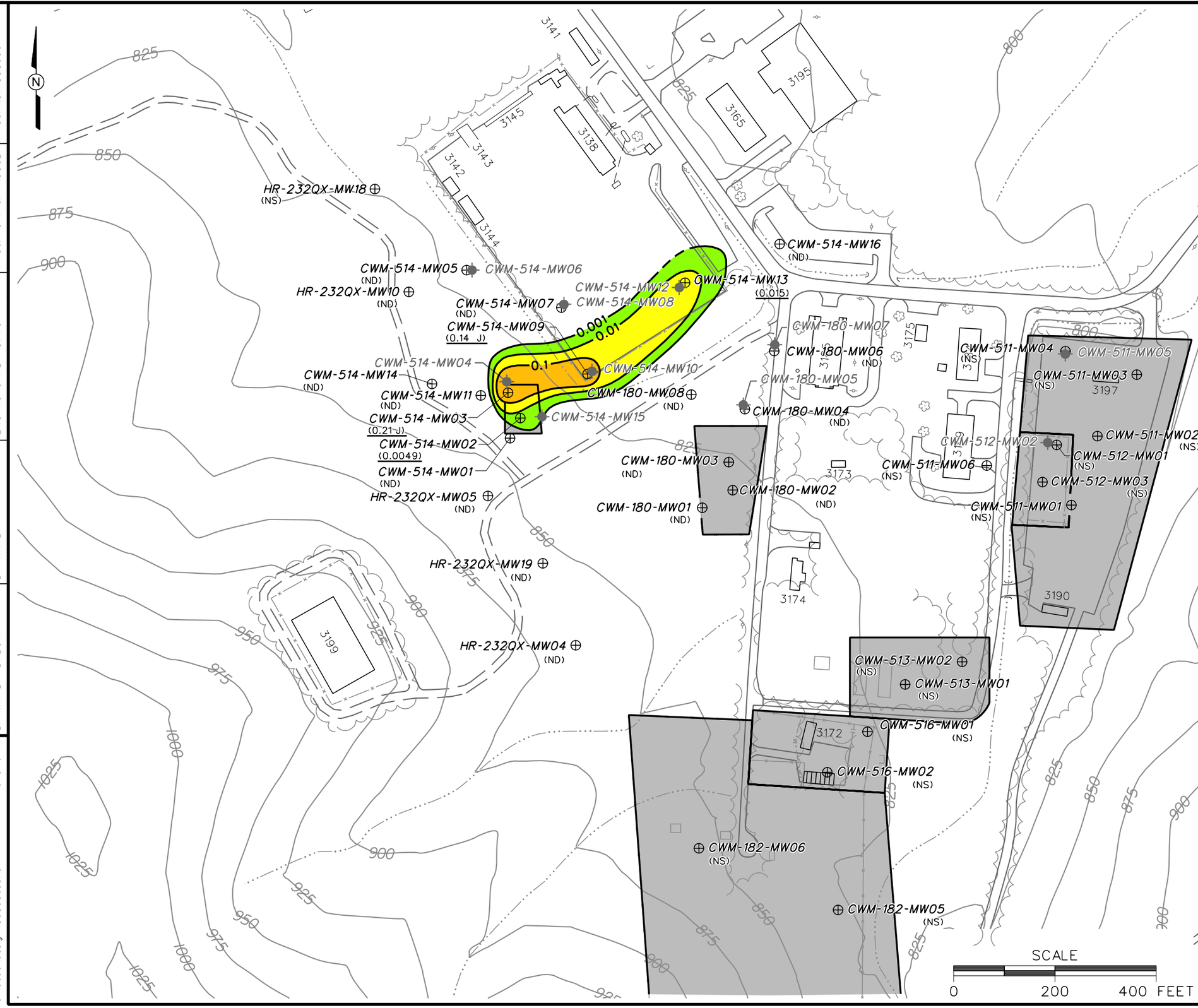

LEGEND

- UNIMPROVED ROAD
- PAVED ROAD AND PARKING
- BUILDING
- TOPOGRAPHIC CONTOUR (CONTOUR INTERVAL - 25 FOOT)
- TREES / TREELINE
- PARCEL BOUNDARY
- SURFACE DRAINAGE / CREEK
- FENCE
- UTILITY POLE
- TEMPORARY MONITORING WELL LOCATION
- RESIDUUM MONITORING WELL LOCATION
- BEDROCK MONITORING WELL LOCATION
- (0.14) CHLORINATED ETHANES CONCENTRATION (mg/L)
- 0.1 CONCENTRATION IN MILLIGRAMS PER LITER (mg/L) (DASHED WHERE INFERRED)
- mg/L MILLIGRAMS PER LITER
- J REPORTED VALUE IS AN ESTIMATED CONCENTRATION
- ND NOT DETECTED
- NS NOT SAMPLED

NOTE:

1. CONCENTRATION UNDERLINED IF ONE OR MORE COMPOUNDS EXCEEDS IT'S SSSL.

FIGURE 4-7

CHLORINATED ETHANES
ISOPLETH MAP
RESIDUUM MONITORING WELLS (2004)
TRAINING AREA T-5 SITES
PARCELS 180(7), 182(7), 511(7), 512(7), 513(7), 514(7), AND 516(7)

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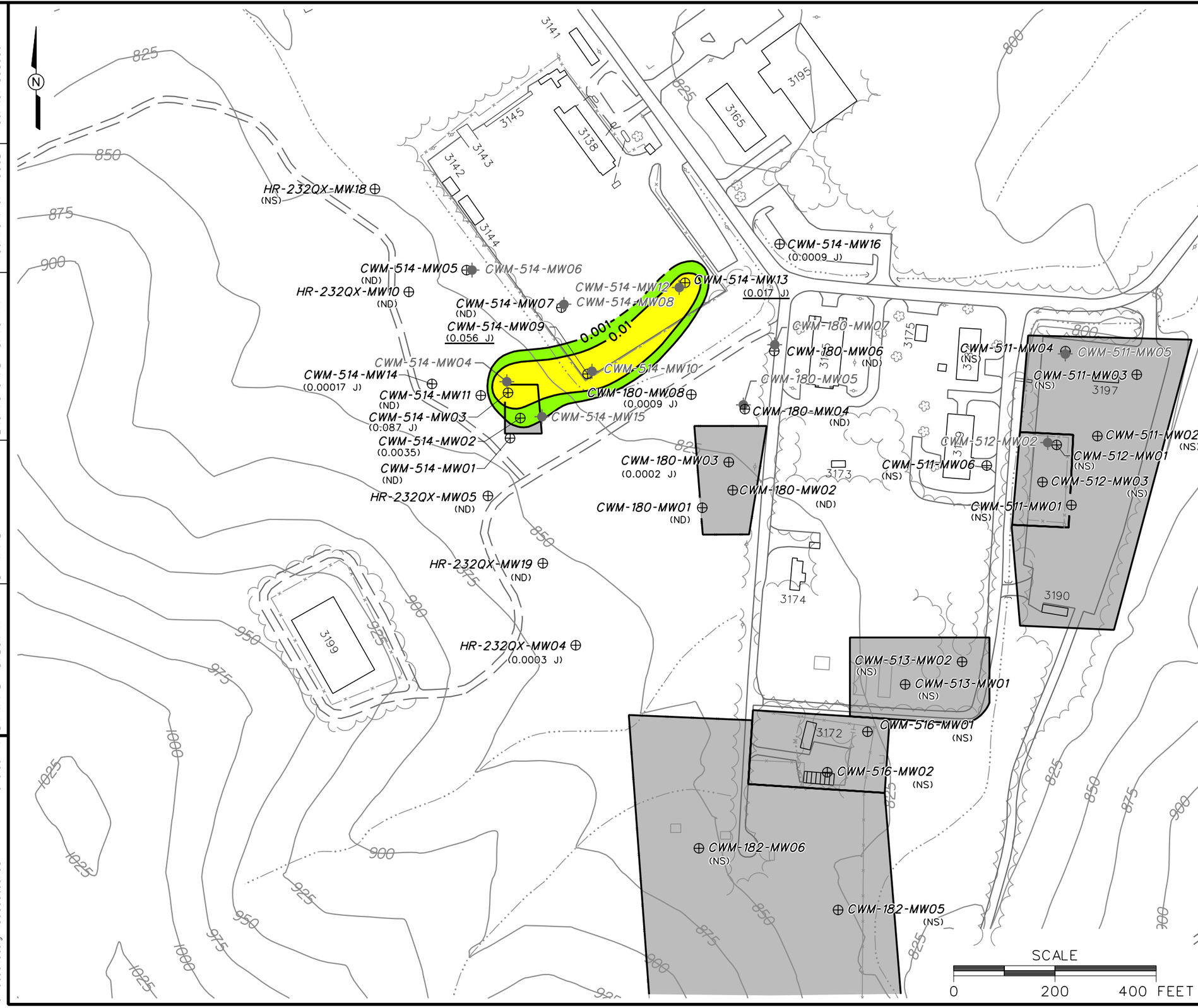

LEGEND

- UNIMPROVED ROAD
- PAVED ROAD AND PARKING
- BUILDING
- TOPOGRAPHIC CONTOUR (CONTOUR INTERVAL - 25 FOOT)
- TREES / TREELINE
- PARCEL BOUNDARY
- SURFACE DRAINAGE / CREEK
- FENCE
- UTILITY POLE
- TEMPORARY MONITORING WELL LOCATION
- RESIDUUM MONITORING WELL LOCATION
- BEDROCK MONITORING WELL LOCATION
- (0.017) CHLORINATED ETHENES CONCENTRATION (mg/L)
- 0.1 CONCENTRATION IN MILLIGRAMS PER LITER (mg/L) (DASHED WHERE INFERRED)
- mg/L MILLIGRAMS PER LITER
- J REPORTED VALUE IS AN ESTIMATED CONCENTRATION
- ND NOT DETECTED
- NS NOT SAMPLED

NOTE:

1. CONCENTRATION UNDERLINED IF ONE OR MORE COMPOUNDS EXCEEDS IT'S SSSL.

FIGURE 4-8

CHLORINATED ETHENES
ISOPLETH MAP
RESIDUUM MONITORING WELLS (2004)
TRAINING AREA T-5 SITES
PARCELS 180(7), 182(7), 511(7), 512(7), 513(7), 514(7), AND 516(7)

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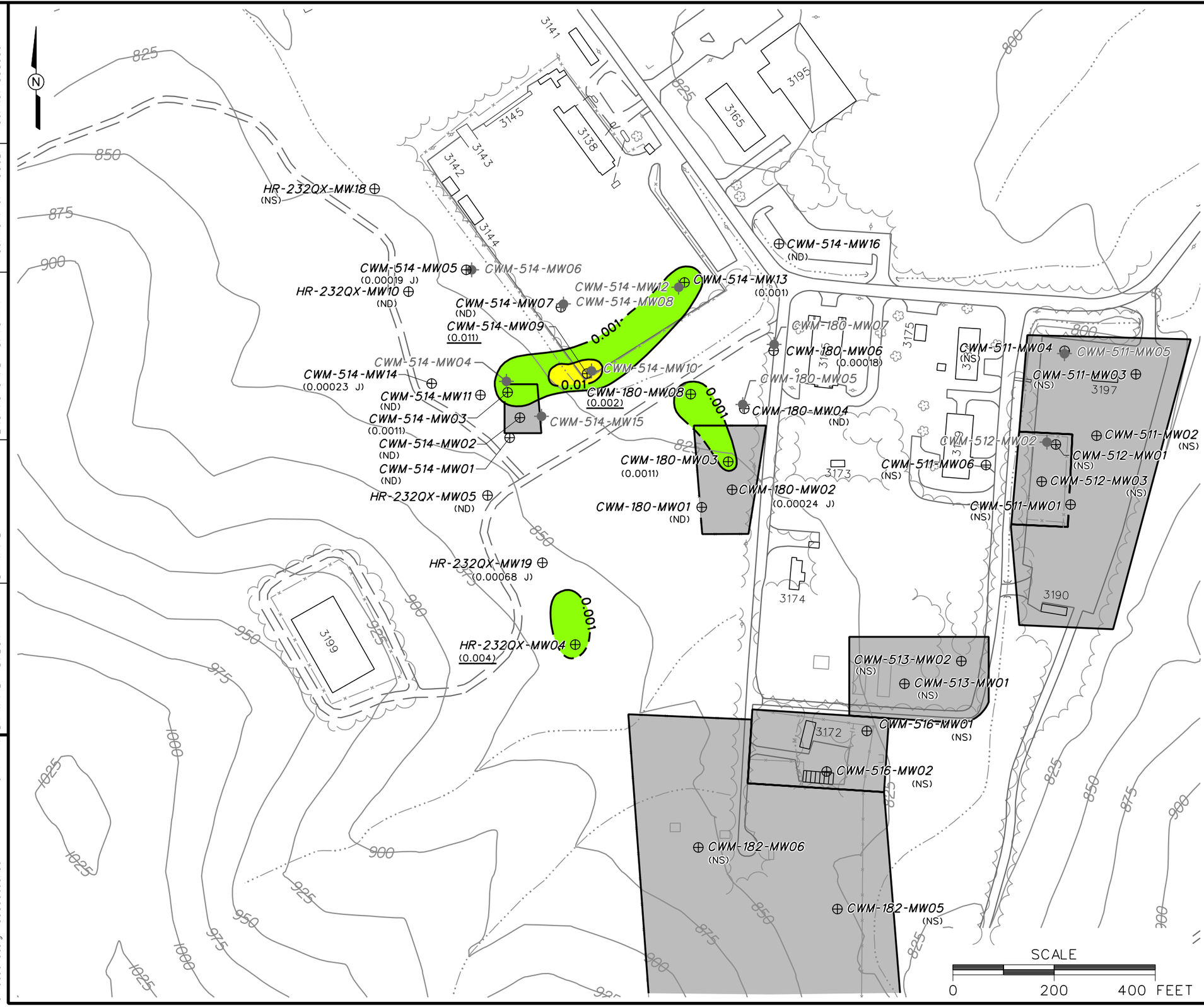

LEGEND

- UNIMPROVED ROAD
- PAVED ROAD AND PARKING
- BUILDING
- TOPOGRAPHIC CONTOUR (CONTOUR INTERVAL - 25 FOOT)
- TREES / TREELINE
- PARCEL BOUNDARY
- SURFACE DRAINAGE / CREEK
- FENCE
- UTILITY POLE
- TEMPORARY MONITORING WELL LOCATION
- RESIDUUM MONITORING WELL LOCATION
- BEDROCK MONITORING WELL LOCATION
- (0.001) CHLOROFORM CONCENTRATION (mg/L)
- 0.1 CONCENTRATION IN MILLIGRAMS PER LITER (mg/L) (DASHED WHERE INFERRED)
- mg/L MILLIGRAMS PER LITER
- J REPORTED VALUE IS AN ESTIMATED CONCENTRATION
- ND NOT DETECTED
- NS NOT SAMPLED

NOTE:

1. CONCENTRATION UNDERLINED IF IT EXCEEDS SSSL.

SCALE

0 200 400 FEET

FIGURE 4-9

CHLOROFORM ISOPLETH MAP
RESIDUUM MONITORING WELLS (2004)
TRAINING AREA T-5 SITES
PARCELS 180(7), 182(7), 511(7), 512(7), 513(7), 514(7), AND 516(7)

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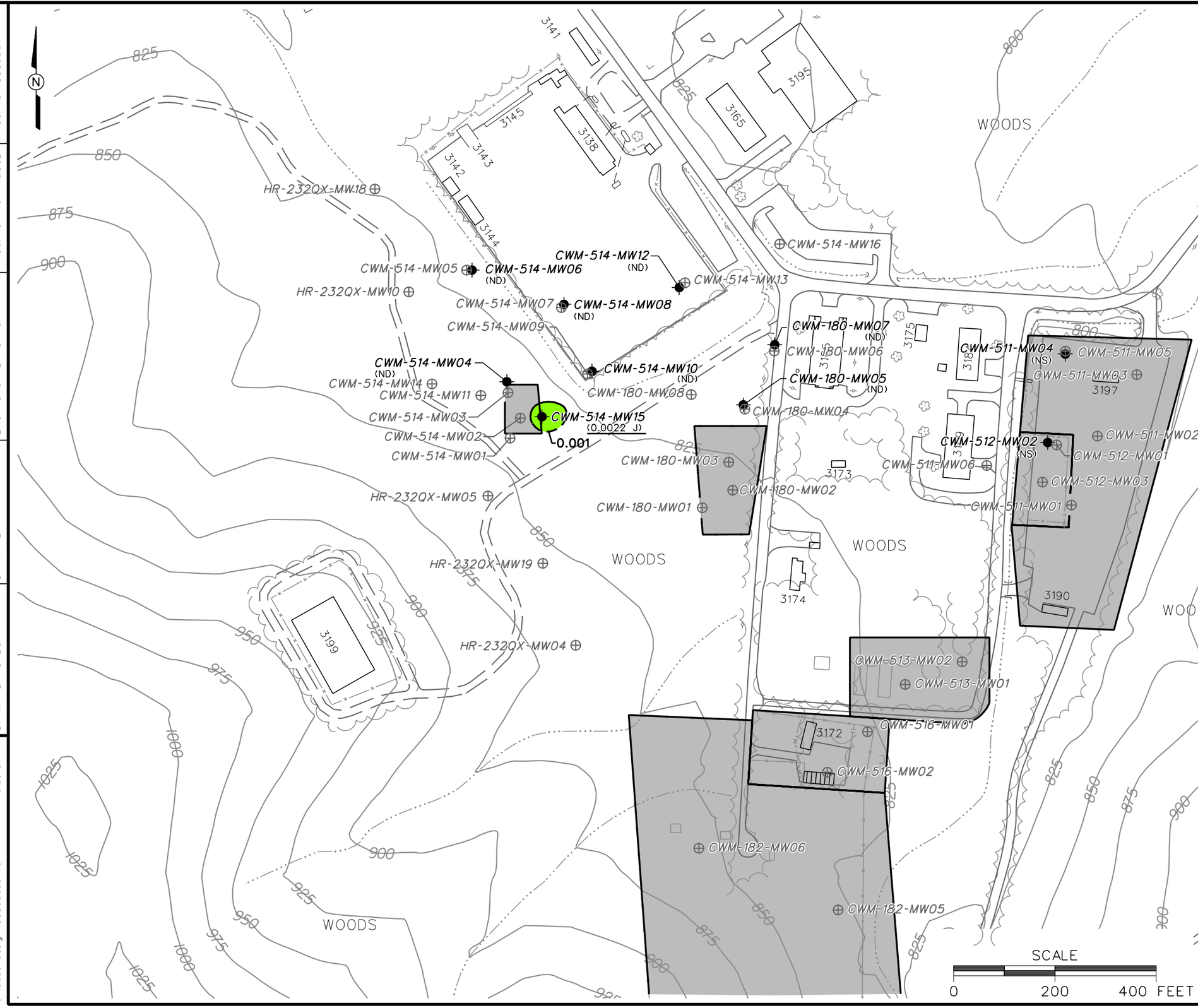

LEGEND

- UNIMPROVED ROADS AND PARKING
- PAVED ROADS AND PARKING
- BUILDING
- TOPOGRAPHIC CONTOUR (CONTOUR INTERVAL - 25 FOOT)
- TREES / TREELINE
- PARCEL BOUNDARY
- SURFACE DRAINAGE / CREEK
- FENCE
- UTILITY POLE
- TEMPORARY MONITORING WELL LOCATION
- RESIDUUM MONITORING WELL LOCATION
- BEDROCK MONITORING WELL LOCATION
- (0.0022) CHLORINATED ETHANES CONCENTRATION (mg/L)
- 0.1 CONCENTRATION IN MILLIGRAMS PER LITER (mg/L) (DASHED WHERE INFERRED)
- mg/L MILLIGRAMS PER LITER
- J REPORTED VALUE IS AN ESTIMATED CONCENTRATION
- ND NOT DETECTED
- NS NOT SAMPLED

NOTE:

1. CONCENTRATION UNDERLINED IF ONE OR MORE COMPOUNDS EXCEEDS IT'S SSSL.

FIGURE 4-10
CHLORINATED ETHANES
ISOPLETH MAP
BEDROCK MONITORING WELLS (2004)
TRAINING AREA T-5 SITES
PARCELS 180(7), 182(7), 511(7),
512(7), 513(7), 514(7), AND 516(7)

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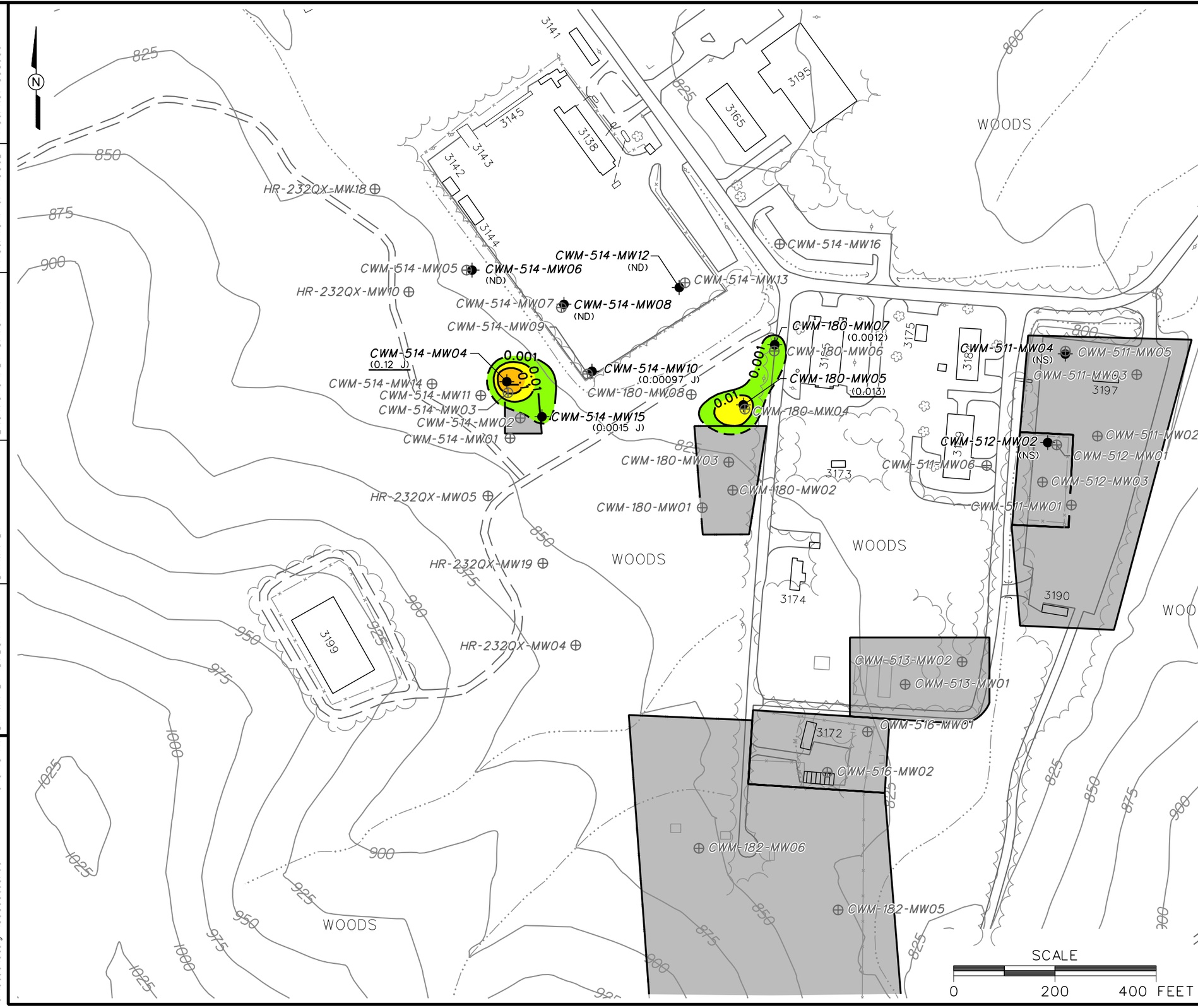

LEGEND

- UNIMPROVED ROADS AND PARKING
- PAVED ROADS AND PARKING
- BUILDING
- TOPOGRAPHIC CONTOUR (CONTOUR INTERVAL - 25 FOOT)
- TREES / TREELINE
- PARCEL BOUNDARY
- SURFACE DRAINAGE / CREEK
- FENCE
- UTILITY POLE
- TEMPORARY MONITORING WELL LOCATION
- RESIDUUM MONITORING WELL LOCATION
- BEDROCK MONITORING WELL LOCATION
- (0.013) CHLORINATED ETHENES CONCENTRATION (mg/L)
- 0.1 CONCENTRATION IN MILLIGRAMS PER LITER (mg/L) (DASHED WHERE INFERRED)
- mg/L MILLIGRAMS PER LITER
- J REPORTED VALUE IS AN ESTIMATED CONCENTRATION
- ND NOT DETECTED
- NS NOT SAMPLED

NOTE:

1. CONCENTRATION UNDERLINED IF ONE OR MORE COMPOUNDS EXCEEDS IT'S SSSL.

SCALE

0 200 400 FEET

FIGURE 4-11
CHLORINATED ETHENES
ISOPLETH MAP
BEDROCK MONITORING WELLS (2004)
TRAINING AREA T-5 SITES
PARCELS 180(7), 182(7), 511(7), 512(7), 513(7), 514(7), AND 516(7)

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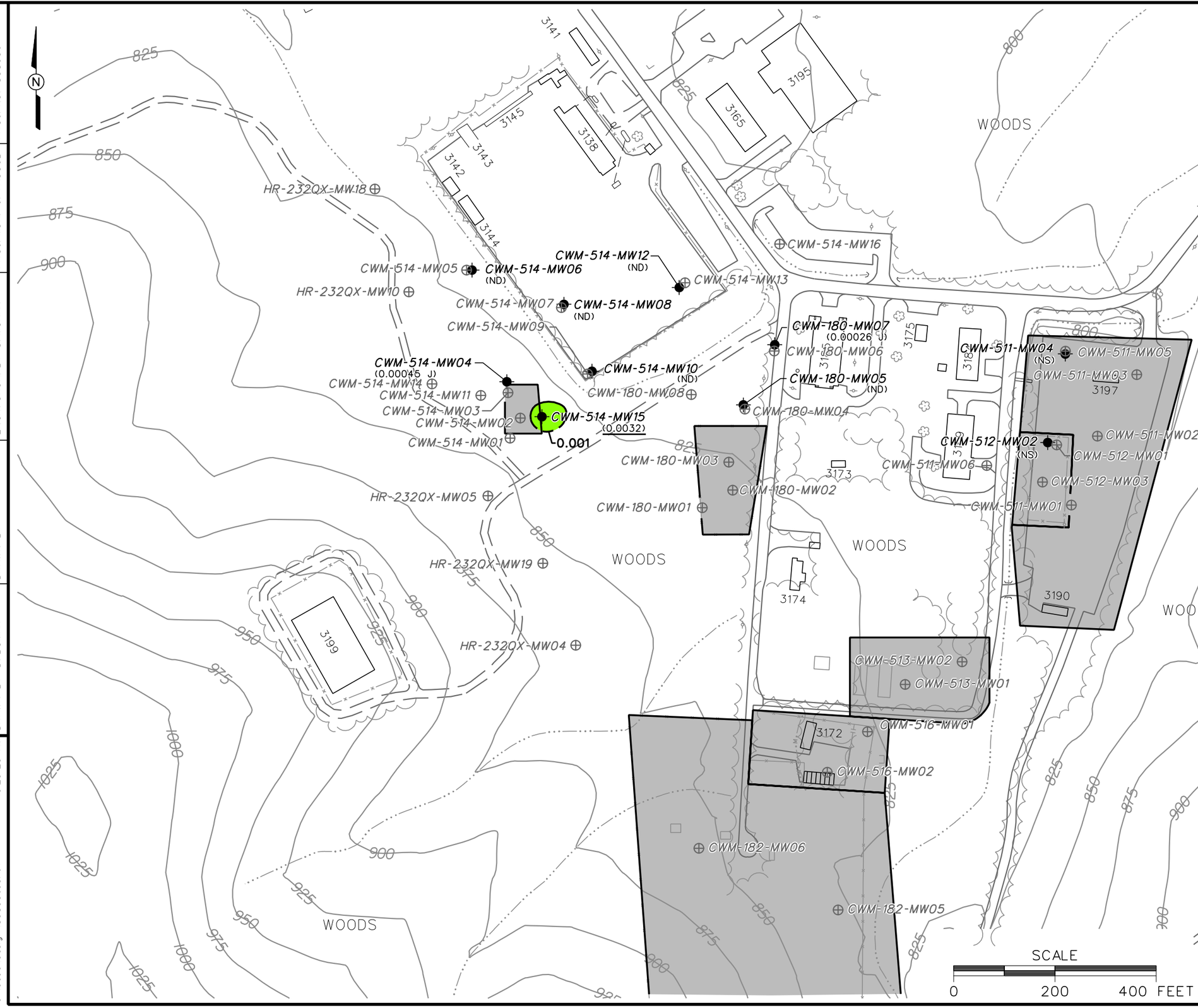

LEGEND

	UNIMPROVED ROADS AND PARKING
	PAVED ROADS AND PARKING
	BUILDING
800	TOPOGRAPHIC CONTOUR (CONTOUR INTERVAL - 25 FOOT)
	TREES / TREELINE
	PARCEL BOUNDARY
	SURFACE DRAINAGE / CREEK
	FENCE
	UTILITY POLE
	TEMPORARY MONITORING WELL LOCATION
	RESIDUUM MONITORING WELL LOCATION
	BEDROCK MONITORING WELL LOCATION
(0.0032)	CHLOROFORM CONCENTRATION (mg/L)
0.1	CONCENTRATION IN MILLIGRAMS PER LITER (mg/L) (DASHED WHERE INFERRED)
mg/L	MILLIGRAMS PER LITER
J	REPORTED VALUE IS AN ESTIMATED CONCENTRATION
ND	NOT DETECTED
NS	NOT SAMPLED

NOTE:

1. CONCENTRATION UNDERLINED IF IT EXCEEDS SSSL.

FIGURE 4-12

CHLOROFORM ISOPLETH MAP
BEDROCK MONITORING WELLS (2004)
TRAINING AREA T-5 SITES
PARCELS 180(7), 182(7), 511(7), 512(7), 513(7), 514(7), AND 516(7)

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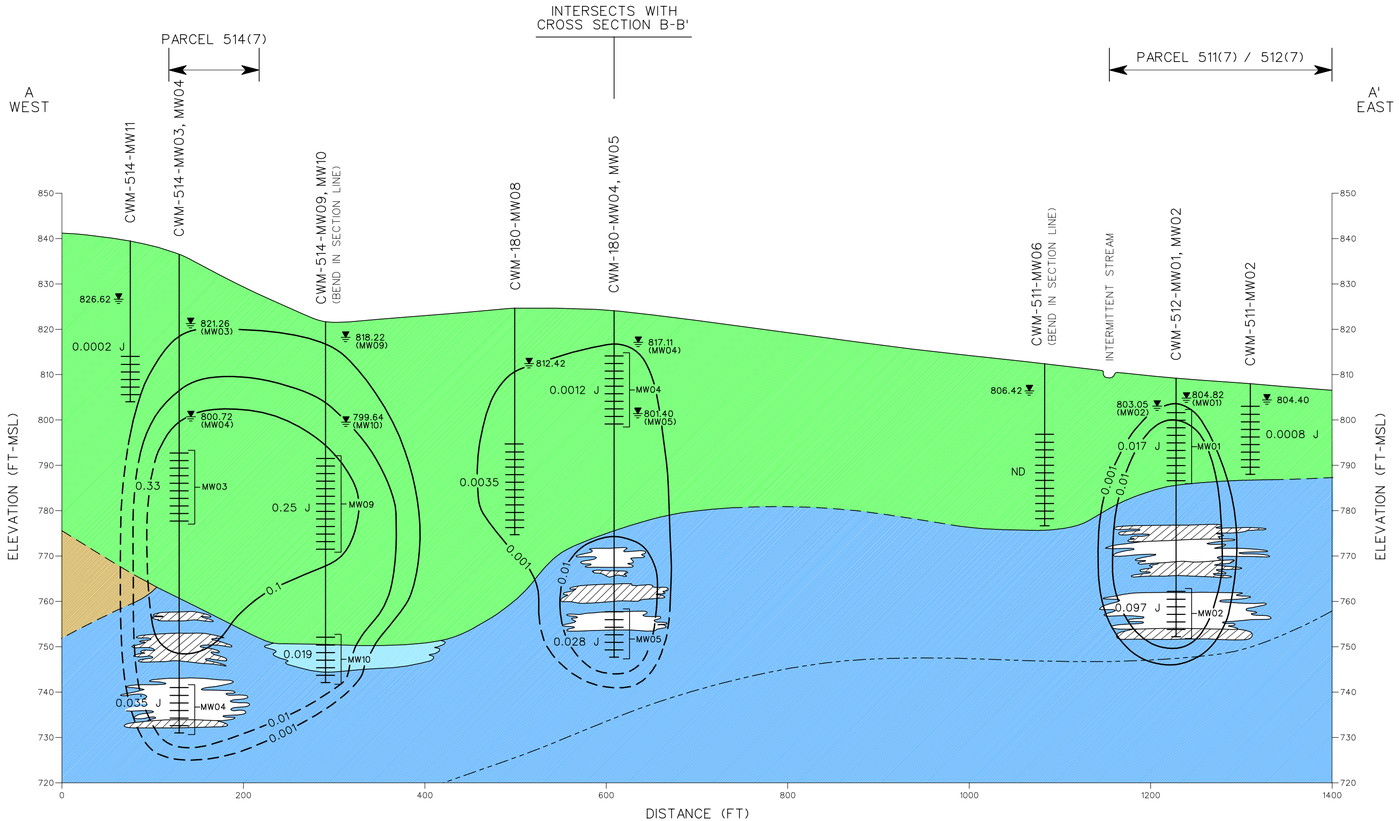

LEGEND:

- SCREEN INTERVAL
- WATER TABLE
- 806.42 — GROUNDWATER ELEVATION (FT MSL) (JUNE 24, 2003)
- 0.1 — TOTAL CHLORINATED VOCs CONCENTRATION IN GROUNDWATER (mg/L)
- 0.33 — CONCENTRATION IN MILLIGRAMS PER LITER (mg/L)
- J — REPORTED VALUE IS AN ESTIMATED CONCENTRATION
- ND — NOT DETECTED
- CONTACT DASHED WHERE INFERRED
- INFERRED BEDDING
- THRUST FAULT
- VOID
- VOID, CLAY-FILLED WITH WEATHERED LIMESTONE GRAVEL
- CLAY, CLAY WITH SILT AND SAND, LITTLE SANDSTONE, QUARTZITE GRAVEL, LIMESTONE GRAVEL, OR WEATHERED SHALE GRAVEL
- SHALE
- HIGHLY FRACTURED LIMESTONE
- LIMESTONE, LIMESTONE AND SHALE

NOTES:

1. ELEVATIONS ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988.
2. CROSS SECTION LOCATION SHOWN ON FIGURE 3-1.

HORIZONTAL: 0 100 200 FEET

VERTICAL: 0 20 40 FEET

FIGURE 5-1
GEOLOGIC CROSS SECTION A-A'
TOTAL CHLORINATED VOCs (2003)
TRAINING AREA T-5 SITES
PARCELS 180(7), 182(7), 511(7), 512(7), 513(7), 514(7), AND 516(7)

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Shaw Environmental, Inc.

DWG. NO.: ...\838936es.164	INITIATOR: B. HEDBERG
PROJ. NO.: 838936	PROJ. MGR.: J. YACOUB
DRAFT. CHCK. BY:	ENGR. CHCK. BY: S. MORAN
DATE LAST REV.:	DRAWN BY:
STARTING DATE: 06/01/04	DRAWN BY: D. BOMAR

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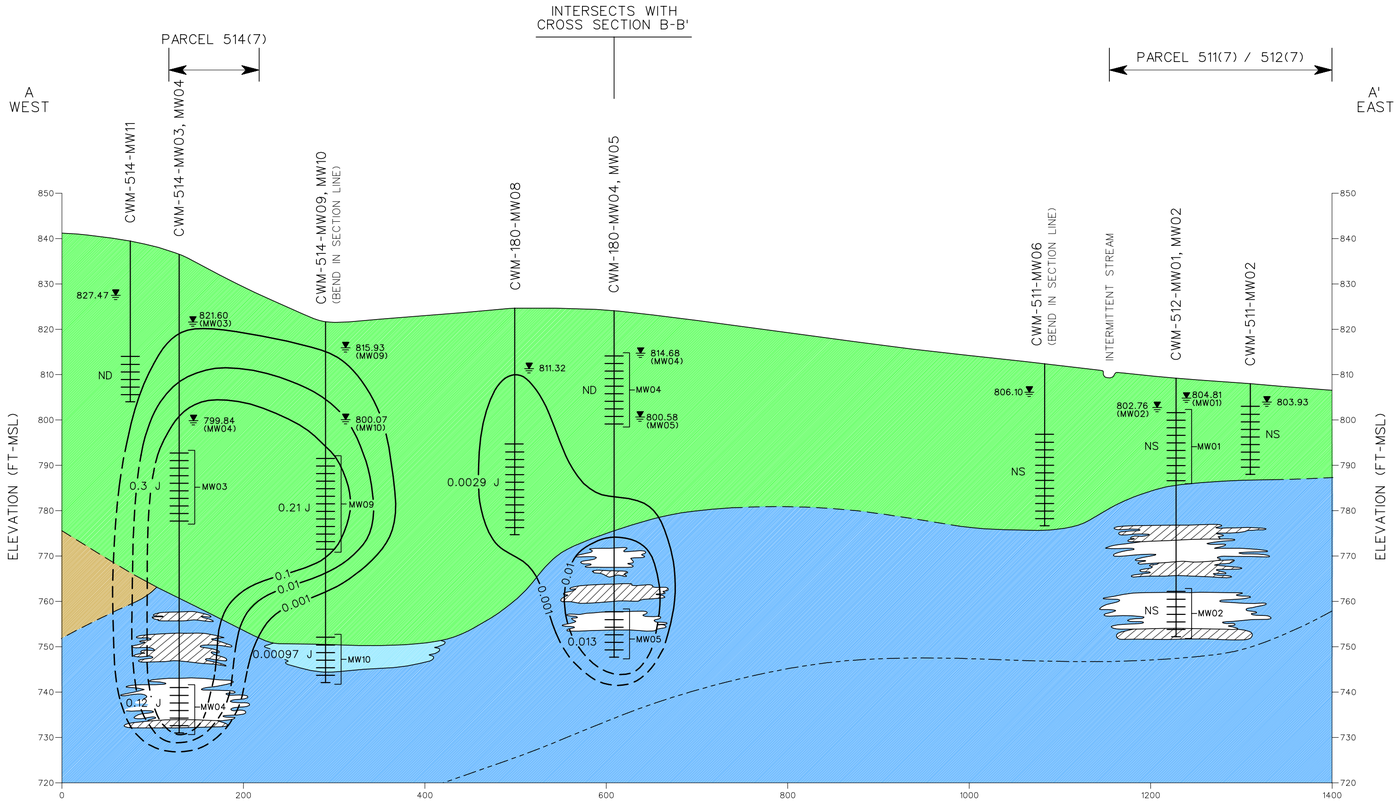

LEGEND:

- SCREEN INTERVAL
- WATER TABLE
- 815.93 — GROUNDWATER ELEVATION (FT MSL) (MAY 6, 2004)
- 0.1 — TOTAL CHLORINATED VOCs CONCENTRATION IN GROUNDWATER (mg/L)
- 0.013 — CONCENTRATION IN MILLIGRAMS PER LITER (mg/L) (MARCH/APRIL 2004)
- J — REPORTED VALUE IS AN ESTIMATED CONCENTRATION
- ND — NOT DETECTED
- NS — NOT SAMPLED
- CONTACT DASHED WHERE INFERRED
- INFERRED BEDDING
- THRUST FAULT
- VOID
- VOID, CLAY-FILLED WITH WEATHERED LIMESTONE GRAVEL
- CLAY, CLAY WITH SILT AND SAND, LITTLE SANDSTONE, QUARTZITE GRAVEL, LIMESTONE GRAVEL, OR WEATHERED SHALE GRAVEL
- SHALE
- HIGHLY FRACTURED LIMESTONE
- LIMESTONE, LIMESTONE AND SHALE

NOTES:

1. ELEVATIONS ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988.
2. CROSS SECTION LOCATION SHOWN ON FIGURE 3-1.

HORIZONTAL: 0 100 200 FEET

VERTICAL: 0 20 40 FEET

FIGURE 5-2
GEOLOGIC CROSS SECTION A-A'
TOTAL CHLORINATED VOCs (2004)
TRAINING AREA T-5 SITES
PARCELS 180(7), 182(7), 511(7), 512(7), 513(7), 514(7), AND 516(7)

U. S. ARMY CORPS OF ENGINEERS
MOBILE DISTRICT
FORT McCLELLAN
CALHOUN COUNTY, ALABAMA
Contract No. DACA21-96-D-0018

Shaw™ Shaw Environmental, Inc.

STARTING DATE: 06/01/04	DATE LAST REV.:	DRAFT. CHCK. BY:	INITIATOR: B. HEDBERG	DWG. NO.: ...\838936es.165
DRAWN BY: D. BOMAR	DRAWN BY:	ENGR. CHCK. BY: S. MORAN	PROJ. MGR.: J. YACOUB	PROJ. NO.: 838936

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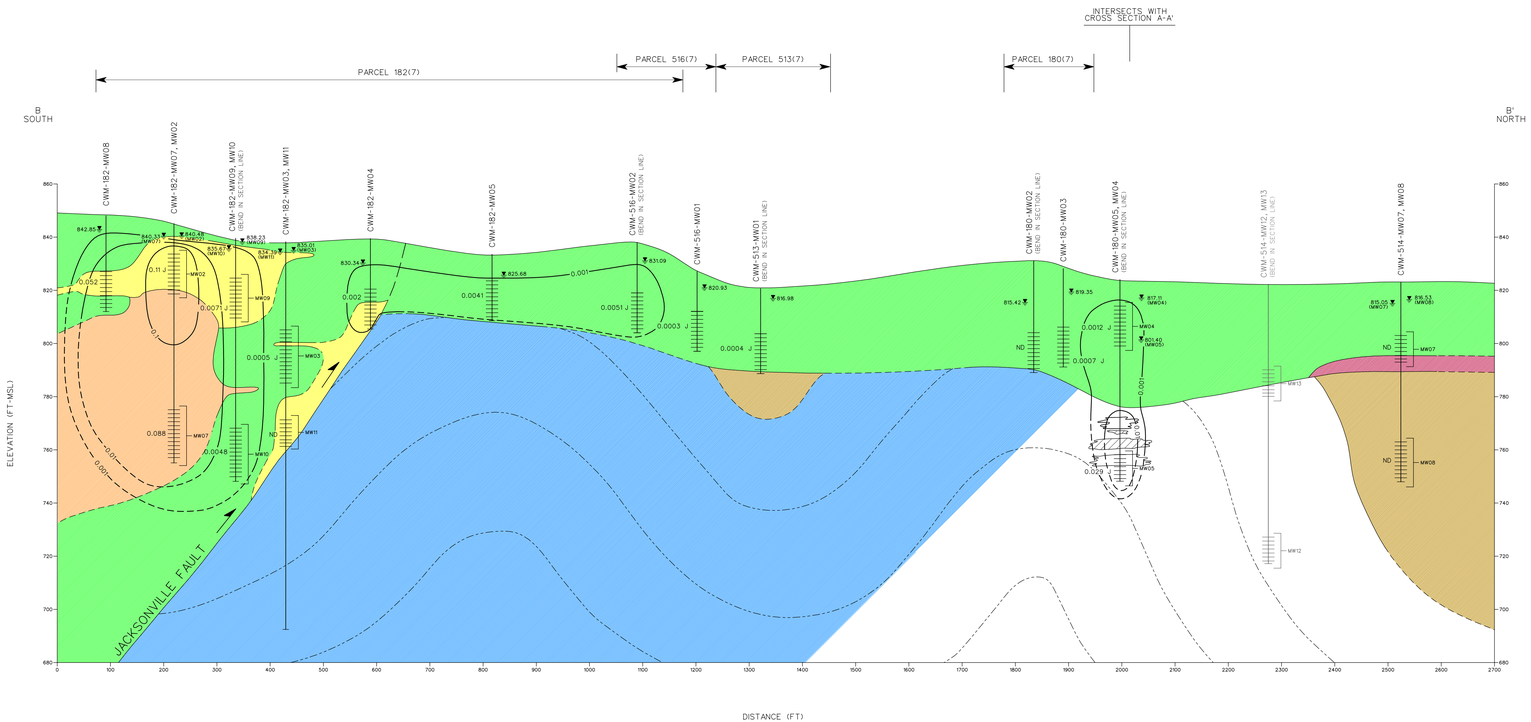


LEGEND:

- SCREEN INTERVAL
- WATER TABLE
- 817.11 — GROUNDWATER ELEVATION (FT MSL) (JUNE 24, 2003)
- 0.1 — TOTAL CHLORINATED VOCs CONCENTRATION IN GROUNDWATER (mg/L)
- 0.013 — CONCENTRATION IN MILLIGRAMS PER LITER (mg/L)
- J — REPORTED VALUE IS AN ESTIMATED CONCENTRATION
- ND — NOT DETECTED
- CONTACT DASHED WHERE INFERRED
- INFERRED BEDDING
- THRUST FAULT
- VOID
- VOID, CLAY-FILLED WITH WEATHERED LIMESTONE GRAVEL
- CLAY, CLAY WITH SILT AND SAND, LITTLE SANDSTONE, QUARTZITE GRAVEL, LIMESTONE GRAVEL, OR WEATHERED SHALE GRAVEL
- SILT AND SAND, SAND
- SILT AND GRAVEL
- WEATHERED SHALE
- SHALE
- LIMESTONE, LIMESTONE AND SHALE

NOTES:

1. ELEVATIONS ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988.
2. MONITORING WELLS CWM-514-MW12 AND CWM-514-MW13 INSTALLED AND SAMPLED IN 2004.
3. CROSS SECTION LOCATION SHOWN ON FIGURE 3-1.

HORIZONTAL
0 100 200 FEET

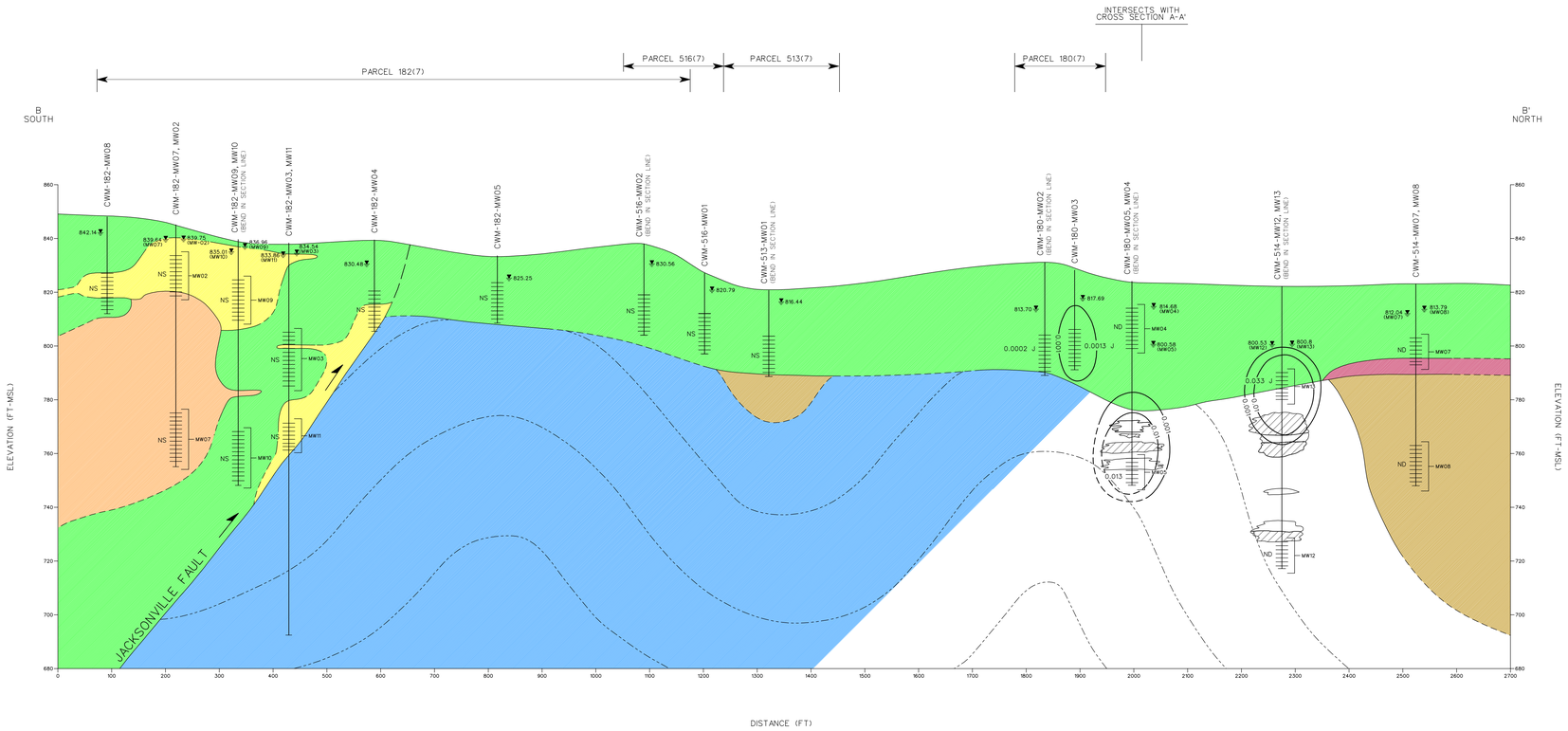
VERTICAL
0 20 40 FEET

FIGURE 5-3
GEOLOGIC CROSS SECTION B-B'
TOTAL CHLORINATED VOCs (2003)
TRAINING AREA T-5 SITES
PARCELS 180(7), 182(7), 511(7), 512(7), 513(7), 514(7), AND 516(7)

U.S. ARMY CORPS OF ENGINEERS
MOBILE DISTRICT
FORT McCLELLAN
CALHOUN COUNTY, ALABAMA
Contract No. DACA21-96-D-0018

Shaw® Shaw Environmental, Inc.

DRAWING: 2241-00-00-04 | DATE: 04-01 | REV.: | DRAWN BY: | DWG CHECKED BY: | DRAFT CHECK BY: | DWG CHECKED BY: S. MURPHY | PROJ MGR: | PROJ NO: 124049 | PROJ NO: 4.3.9.9.9.9.4.1.9.8



LEGEND:

- SCREEN INTERVAL
- WATER TABLE
- 830.56 — GROUNDWATER ELEVATION (FT MSL) (MAY 6, 2004)
- 0.1 — TOTAL CHLORINATED VOCs CONCENTRATION IN GROUNDWATER (mg/L)
- 0.013 — CONCENTRATION IN MILLIGRAMS PER LITER (mg/L)
- J — REPORTED VALUE IS AN ESTIMATED CONCENTRATION
- ND — NOT DETECTED
- NS — NOT SAMPLED
- CONTACT DASHED WHERE INFERRED
- INFERRED BEDDING
- THRUST FAULT
- VOID
- VOID, CLAY-FILLED WITH WEATHERED LIMESTONE GRAVEL
- CLAY, CLAY WITH SILT AND SAND, LITTLE SANDSTONE, QUARTZITE GRAVEL, LIMESTONE GRAVEL, OR WEATHERED SHALE GRAVEL
- SILT AND SAND, SAND
- SILT AND GRAVEL
- WEATHERED SHALE
- SHALE
- LIMESTONE, LIMESTONE AND SHALE

NOTES:

1. ELEVATIONS ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988.
2. CROSS SECTION LOCATION SHOWN ON FIGURE 3-1.

HORIZONTAL: 0 100 200 FEET

VERTICAL: 0 20 40 FEET

FIGURE 5-4
GEOLOGIC CROSS SECTION B-B'
TOTAL CHLORINATED VOCs (2004)
TRAINING AREA T-5 SITES
PARCELS 180(7), 182(7), 511(7), 512(7), 513(7), 514(7), AND 516(7)

U. S. ARMY CORPS OF ENGINEERS
MOBILE DISTRICT
FORT McCLELLAN
CALHOUN COUNTY, ALABAMA
Contract No. DACA21-96-D-0018

Shaw Environmental, Inc.

DRAWING DATE: 09/07/04	DATE LAST REV:	DRAFT CHECK BY:	INITIATOR: B. HEBERT
DRAWN BY: D. BRUNER	DRAWN BY:	TSDF CHECK BY: S. MORAN	PROJ MGR: J. CROUCH

DWG NO: A3836Ma-160
PROJ NO: 630836

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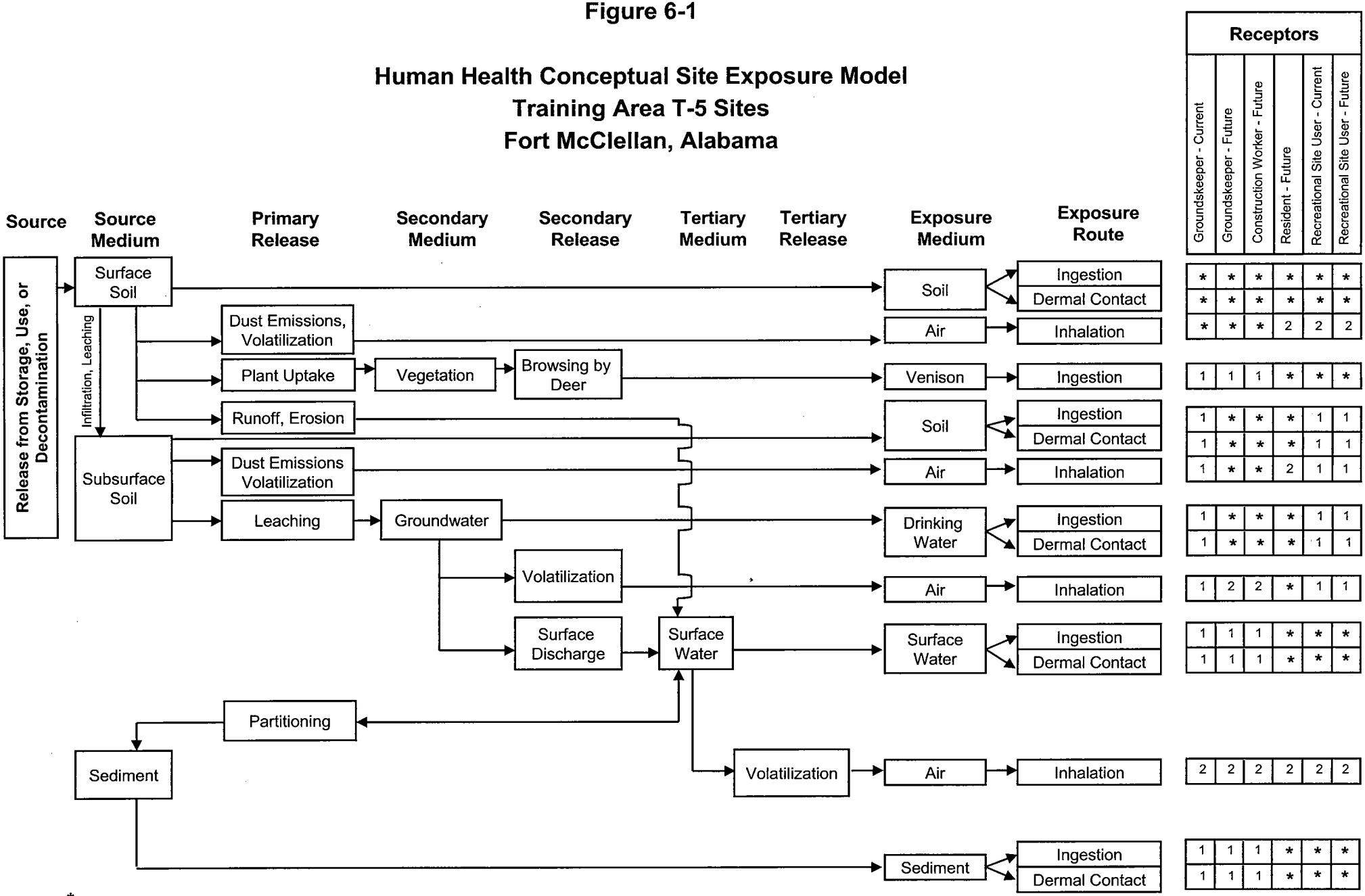
Figure 6-1

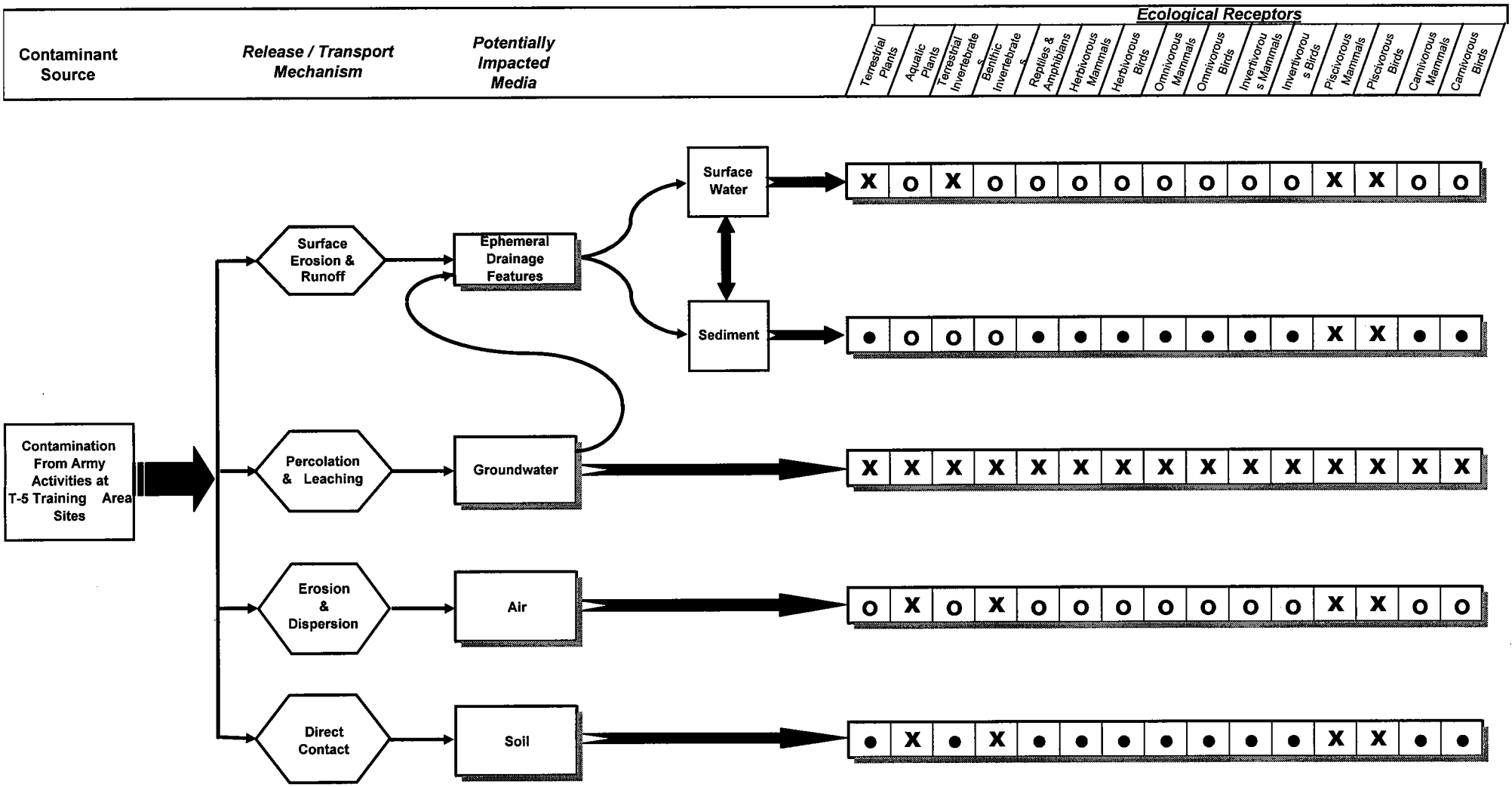
Human Health Conceptual Site Exposure Model
Training Area T-5 Sites
Fort McClellan, Alabama



* = Complete exposure pathway evaluated in the streamlined risk assessment.
1 = Incomplete exposure pathway.
2 = Although theoretically complete, this pathway is judged to be insignificant and is not evaluated in the streamlined risk assessment.

Figure 7-1

Ecological Site Conceptual Model
Training Area T-5 Sites
Fort McClellan, Calhoun County, Alabama



Key To Potential Exposure Routes

● - Potentially complete exposure pathway

X - Incomplete exposure pathway

O - Potentially complete exposure pathway but insignificant

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