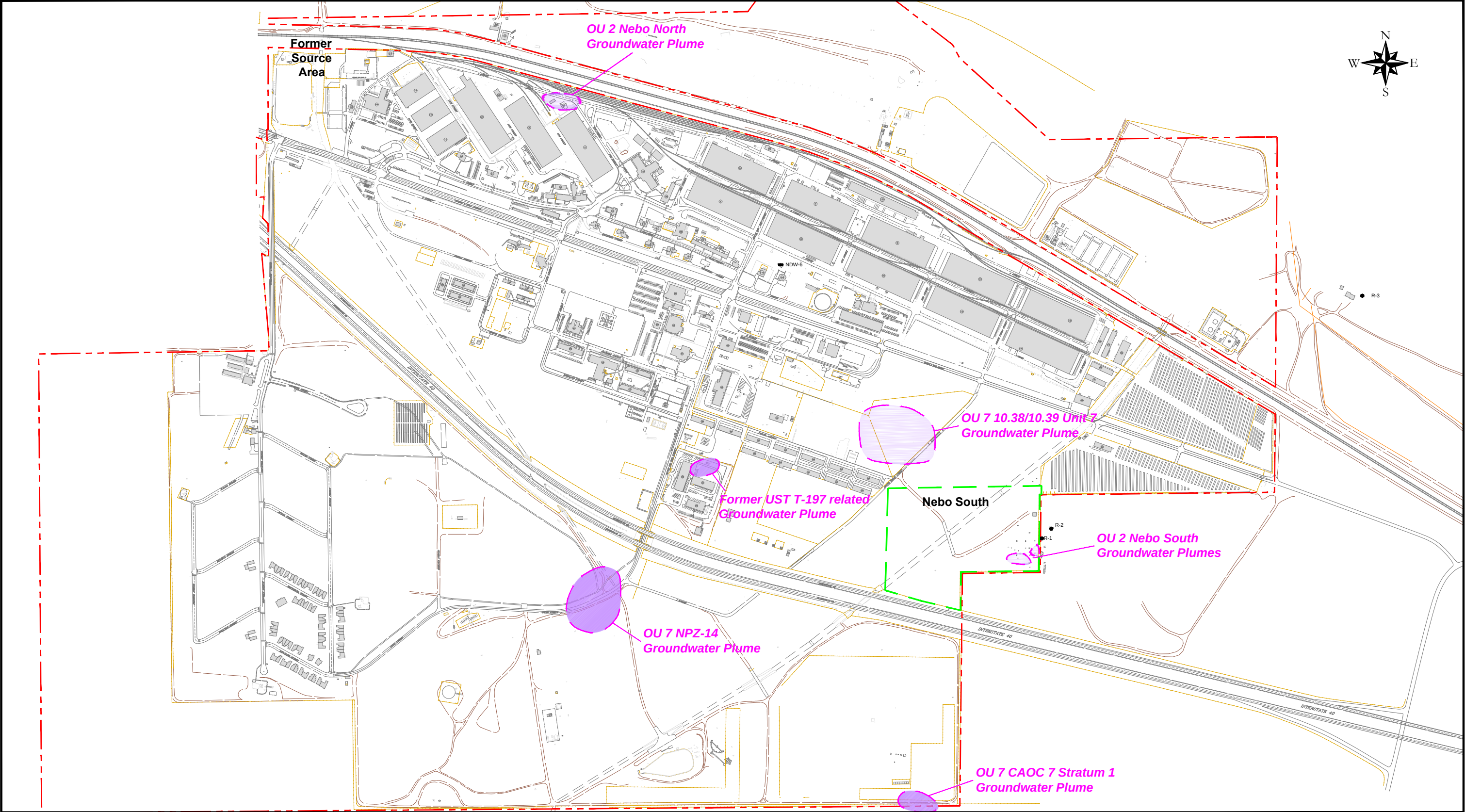




Legend

- | | | | |
|--|----------------------------------|--|------------------------------------|
| | Paved Road | | Base Groundwater Supply Well |
| | Dirt Road | | Residential Well |
| | Railroad Tracks | | Approximate Groundwater VOC Plumes |
| | CAOC 6 Land Use Control Boundary | | |
| | Base Boundary | | |

Notes

- 1) Analytical results used to delineate the OU2 groundwater plumes are a combination of wells sampled during the November 2016 event.

Approximate Scale in Feet

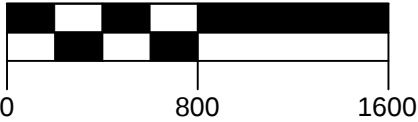
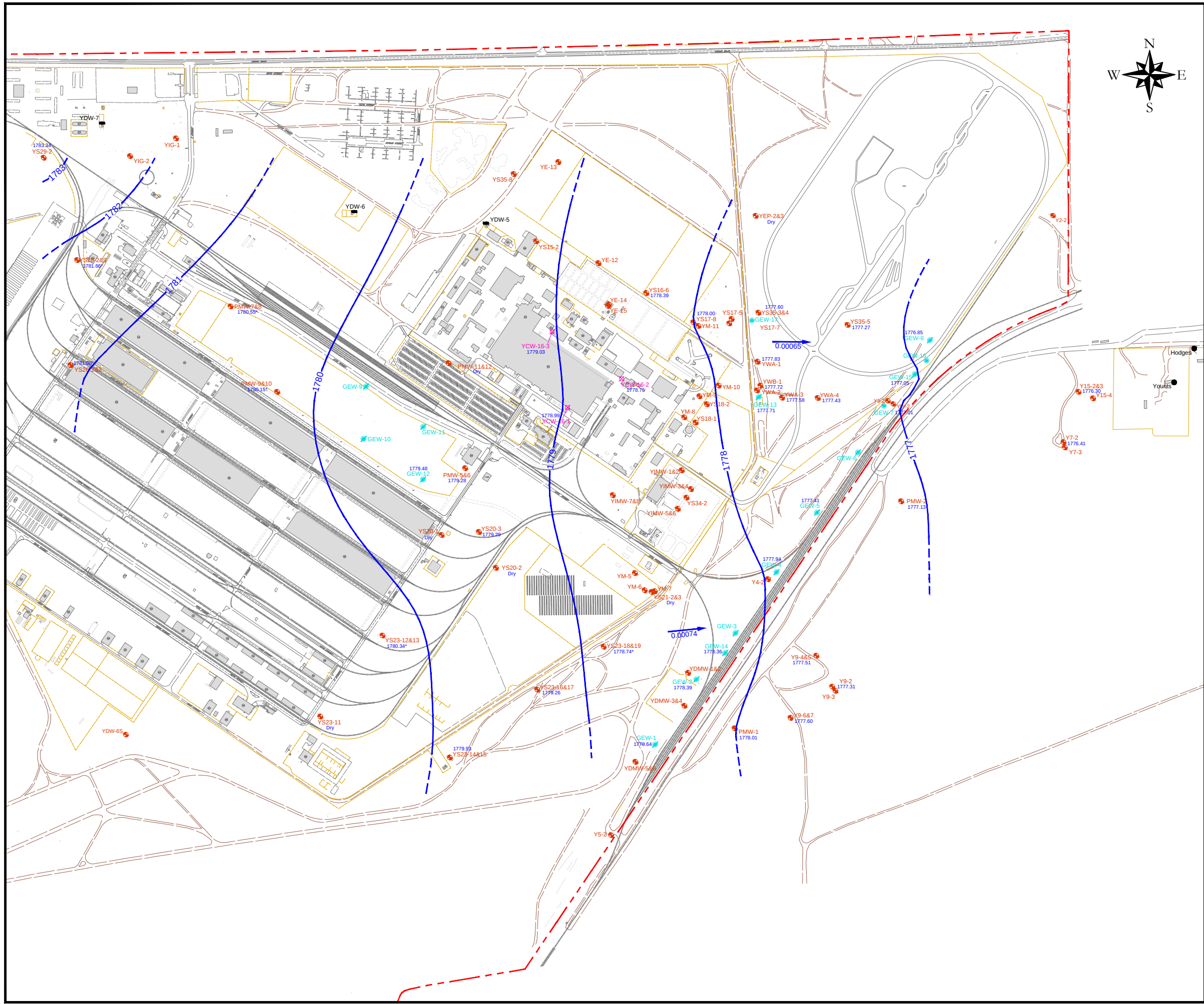


Figure 2-3
Groundwater VOC Plumes Extent
(November 2016)

Nebo Main Base
Marine Corps Logistics Base
Barstow, California



Date: June 19, 2017
File: Barstow_5yrRev - 2017.dwg



Legend

- Paved Road
- Dirt Road
- Railroad Tracks
- Fence Line
- Base Boundary
- Groundwater Elevation Contour, 1-foot Interval (Dashed Where Approximate)
- Groundwater Flow Direction (With Approximate Gradient in ft/ft)
- Groundwater Elevation (ft above mean sea level)
- YMP-2 Groundwater Monitoring Well
- YDW-6 Base Groundwater Supply Well
- GEW-7 Groundwater Extraction Well (Active)
- GEW-2 Groundwater Extraction Well (Inactive)
- YCW-16-1 Combination Well
- Younts Residential Well

Notes

- Groundwater elevation contours were drawn using only monitoring wells with water levels within the screened interval. For nested wells that the shallow screen was "Dry", the elevation in the deep screen was used (noted with an *).
- GEW-7, 16, & 17 were online during gauging.
- ft/ft = feet per foot

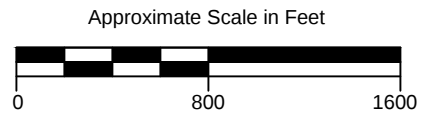


Figure 3-1
Groundwater Elevation Map
(October 2016)

Yermo Annex
Marine Corps Logistics Base
Barstow, California



Date: June 19, 2017
File: Barstow_5yrRev - 2017.dwg
Plotted By: Adam Goldenberg

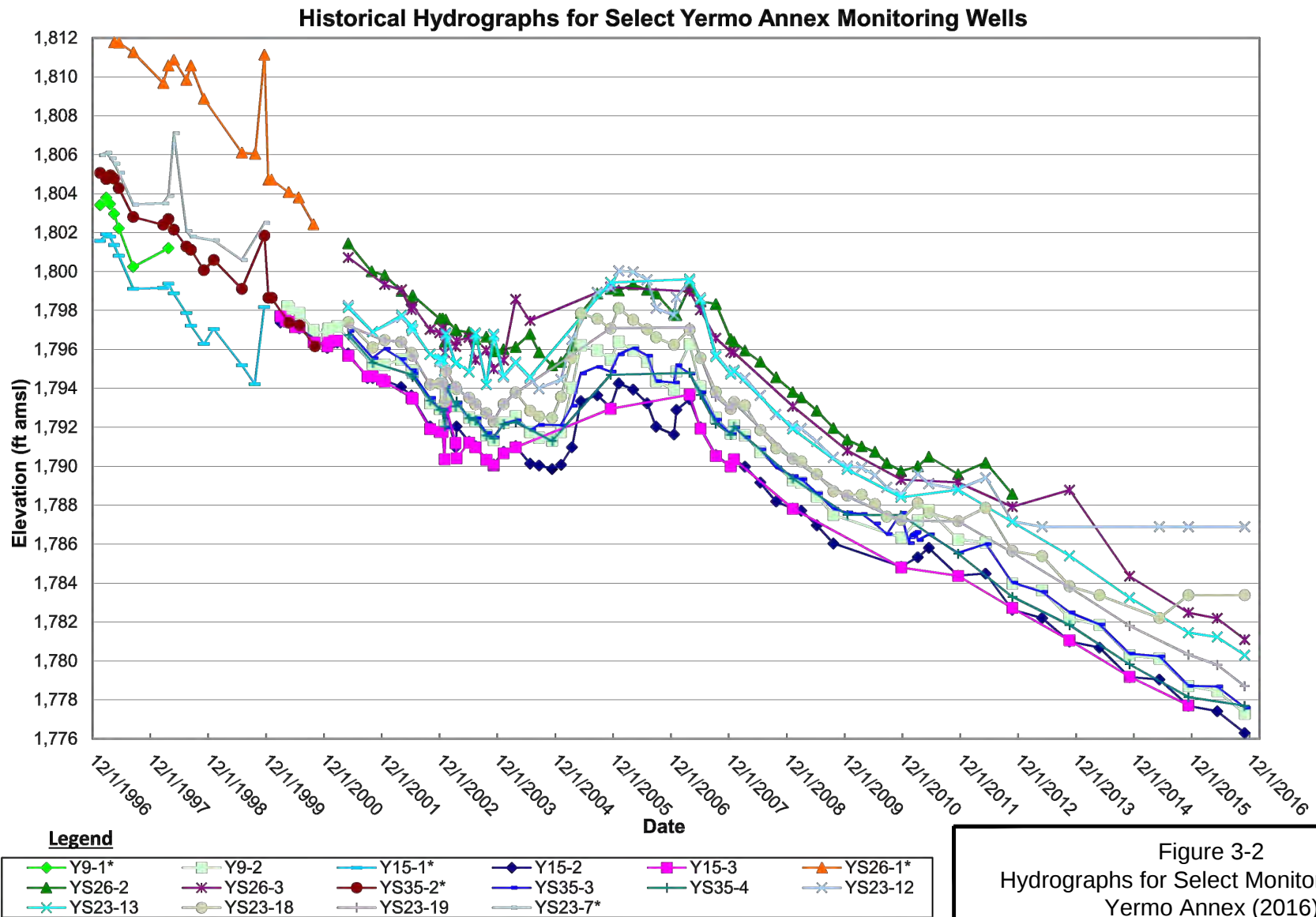


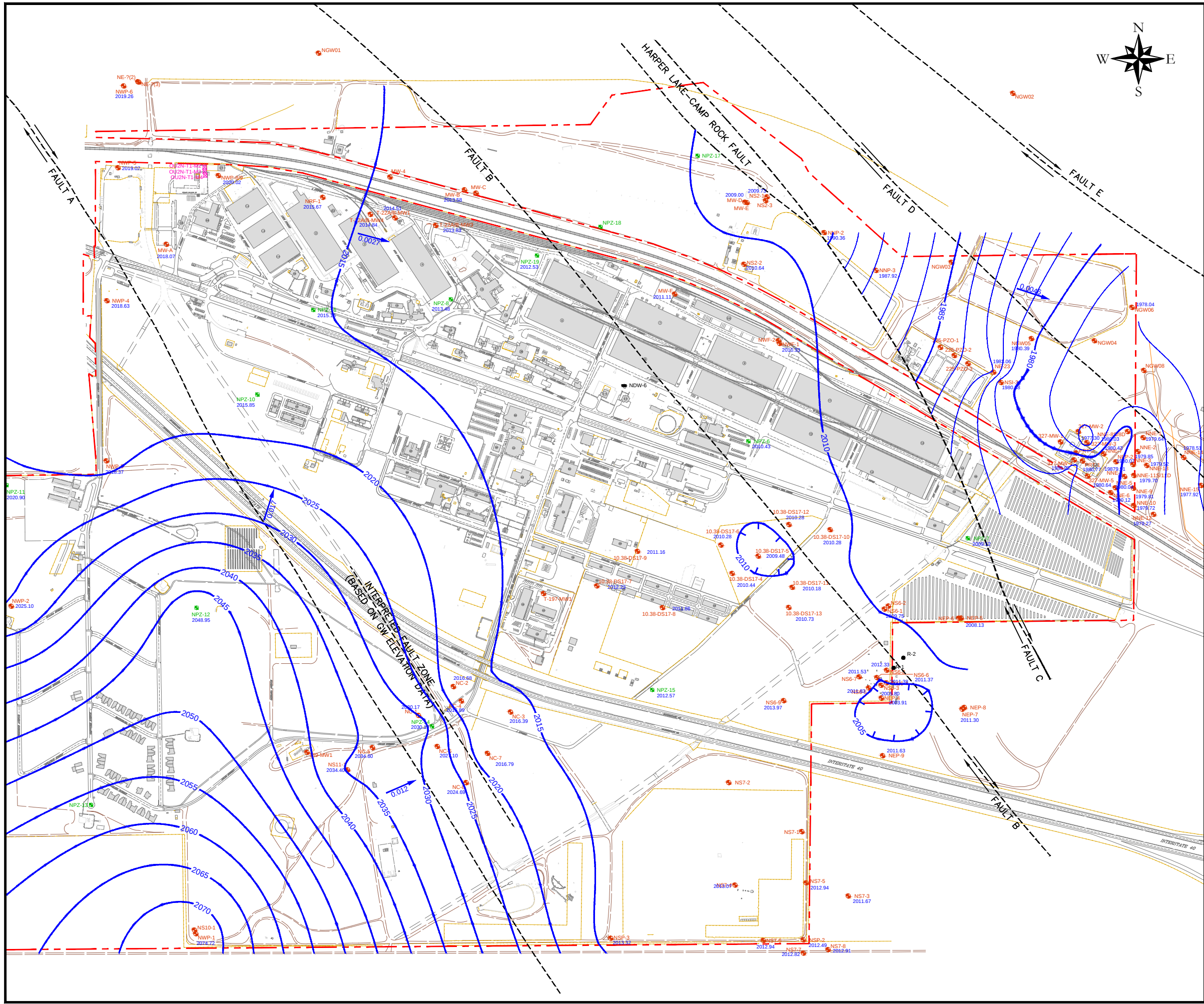
Figure 3-2
Hydrographs for Select Monitoring Wells,
Yermo Annex (2016)

Yermo Annex
Marine Corps Logistics Base
Barstow, California



Date: March 20, 2017

File: Barstow_Hgraphs.dwg



Legend

- Paved Road
- Dirt Road
- Railroad Tracks
- Fence Line
- Base Boundary
- Groundwater Elevation Contour (5-foot and 1-foot intervals)
- Groundwater Flow Direction (With Approximate Gradient in ft/ft)
- Groundwater Elevation (ft above mean sea level)
- Groundwater Monitoring Well
- Piezometer
- Base Groundwater Supply Well
- Fault Traces (strike-slip)

Notes

- Groundwater elevation contours were drawn using only monitoring wells with water levels within the screened interval.
- ft/ft = feet per foot

Approximate Scale in Feet



Figure 3-3
Nebo Main Base
Groundwater Elevation Map
(November 2016)

Nebo Main Base
Marine Corps Logistics Base
Barstow, California



Date: June 19, 2017
File: Barstow_5yrRev - 2017.dwg
Plotted By: Adam Goldenberg

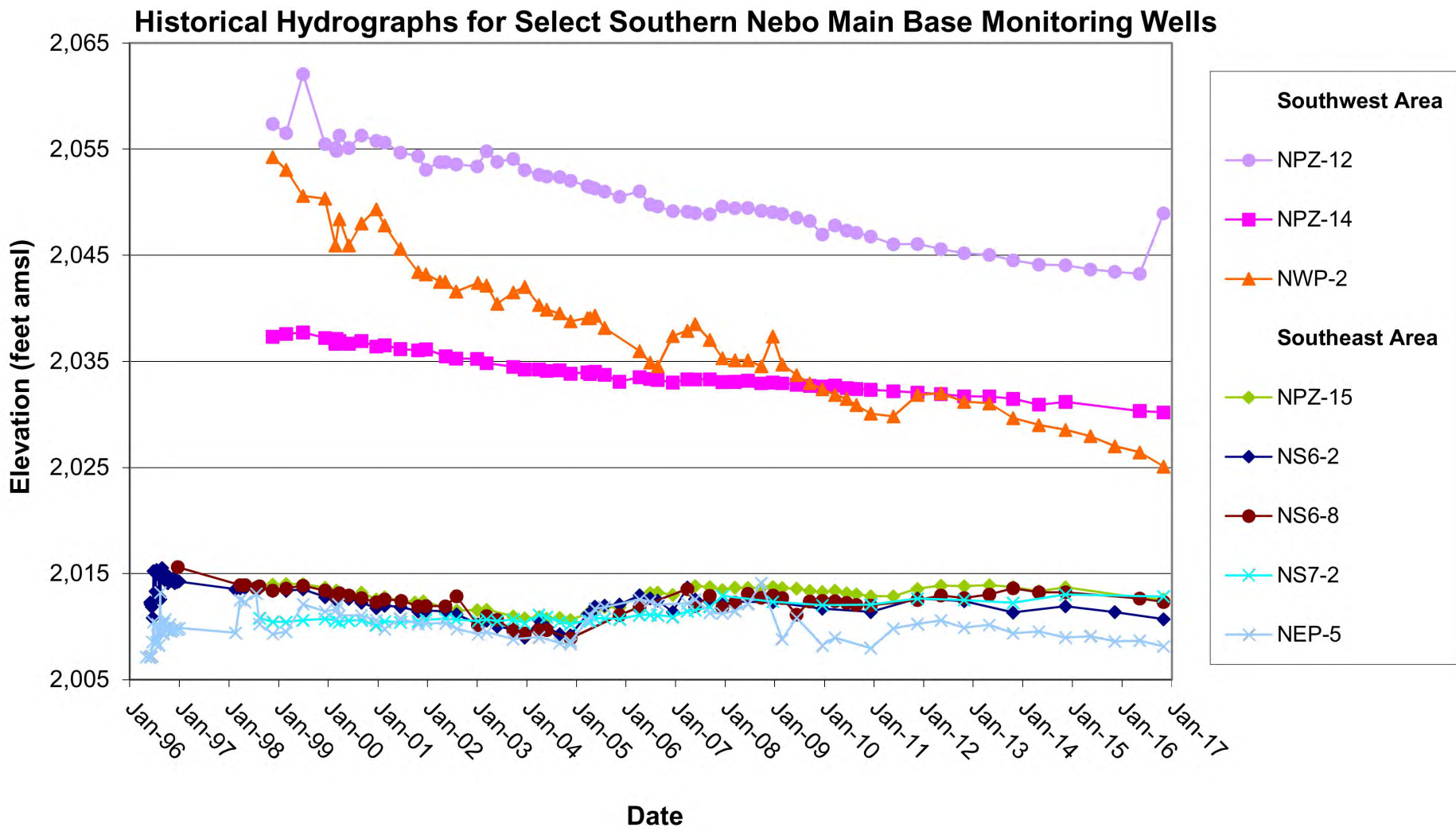
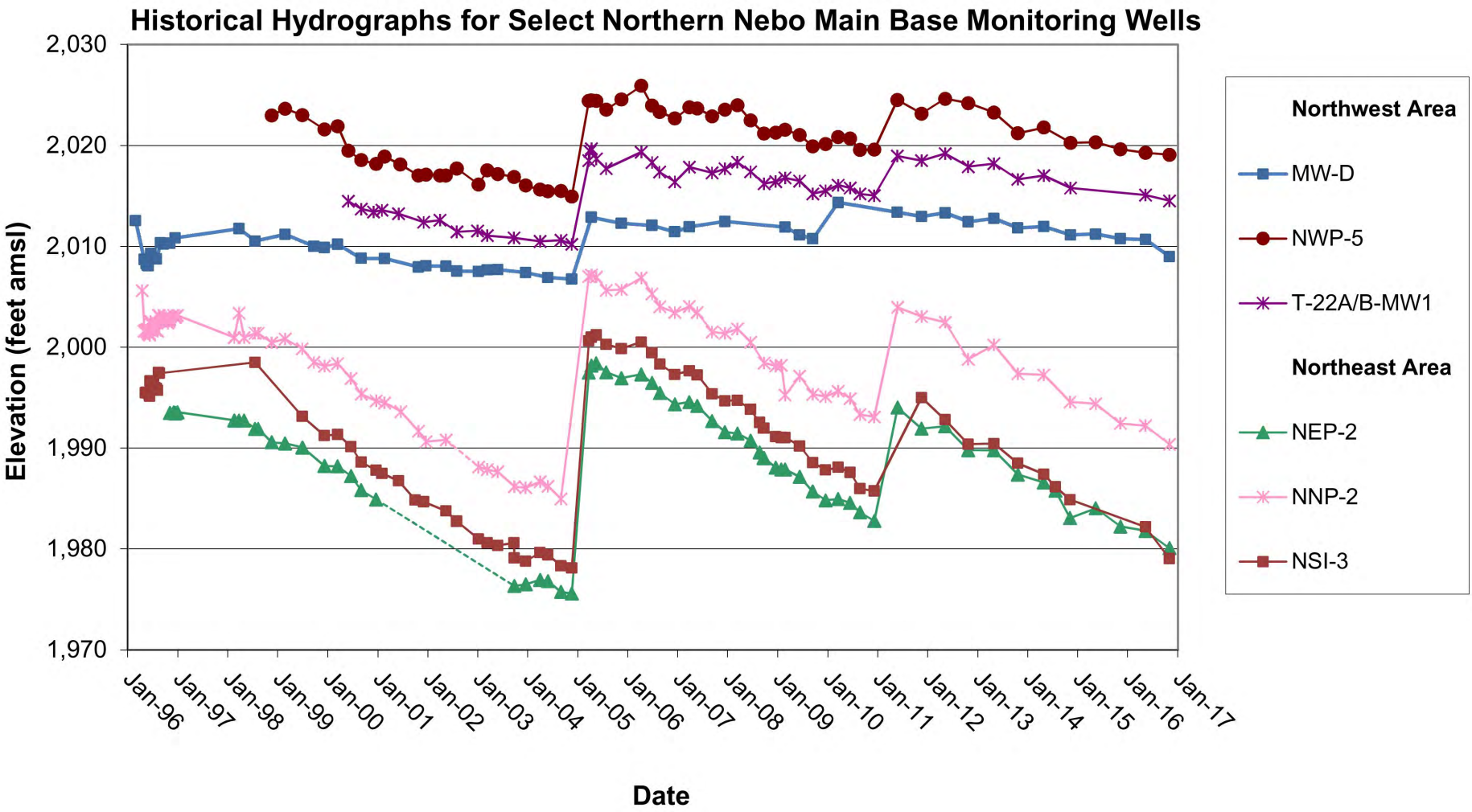
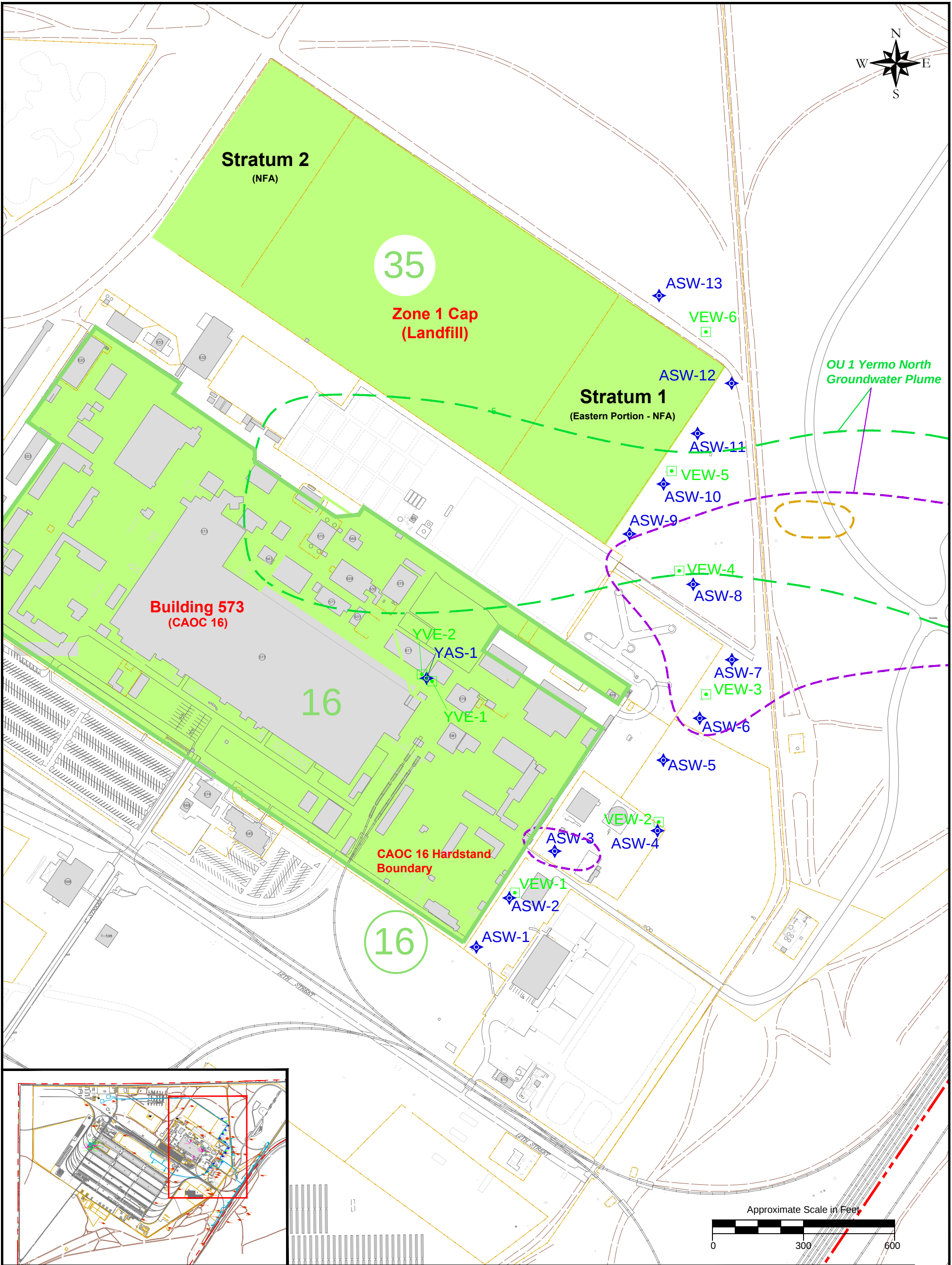


Figure 3-4
Hydrographs for Select Monitoring Wells,
Nebo Main Base (2016)

Yermo Annex
Marine Corps Logistics Base
Barstow, California



Date: March 20, 2017
File: Barstow HGraphs.dwg



Legend

- | | | | |
|--|---|--|-----------------------|
| | Operable Unit 5 (CAOC ##) | | Vapor Extraction Well |
| | Paved Road | | Air Sparge Well |
| | Dirt Road | | |
| | Railroad Tracks | | |
| | Fence Line | | |
| | Remediation Line | | |
| | Approximate TCE Isoconcentration Contour (ug/L) | | |
| | Approximate TCE Isoconcentration Contour (ug/L) | | |
| | Approximate PCE Isoconcentration Contour (ug/L) | | |

Notes

- Analytical results shown in ug/L (micrograms per liter) for the wells sampled during the 2016 annual groundwater monitoring event.
- CAOC = CERCLA Area of Concern
CERCLA = Comprehensive Environmental Response, Compensation, and Liability Act
TCE = Trichloroethene
PCE = Tetrachloroethene
NFA = no further action

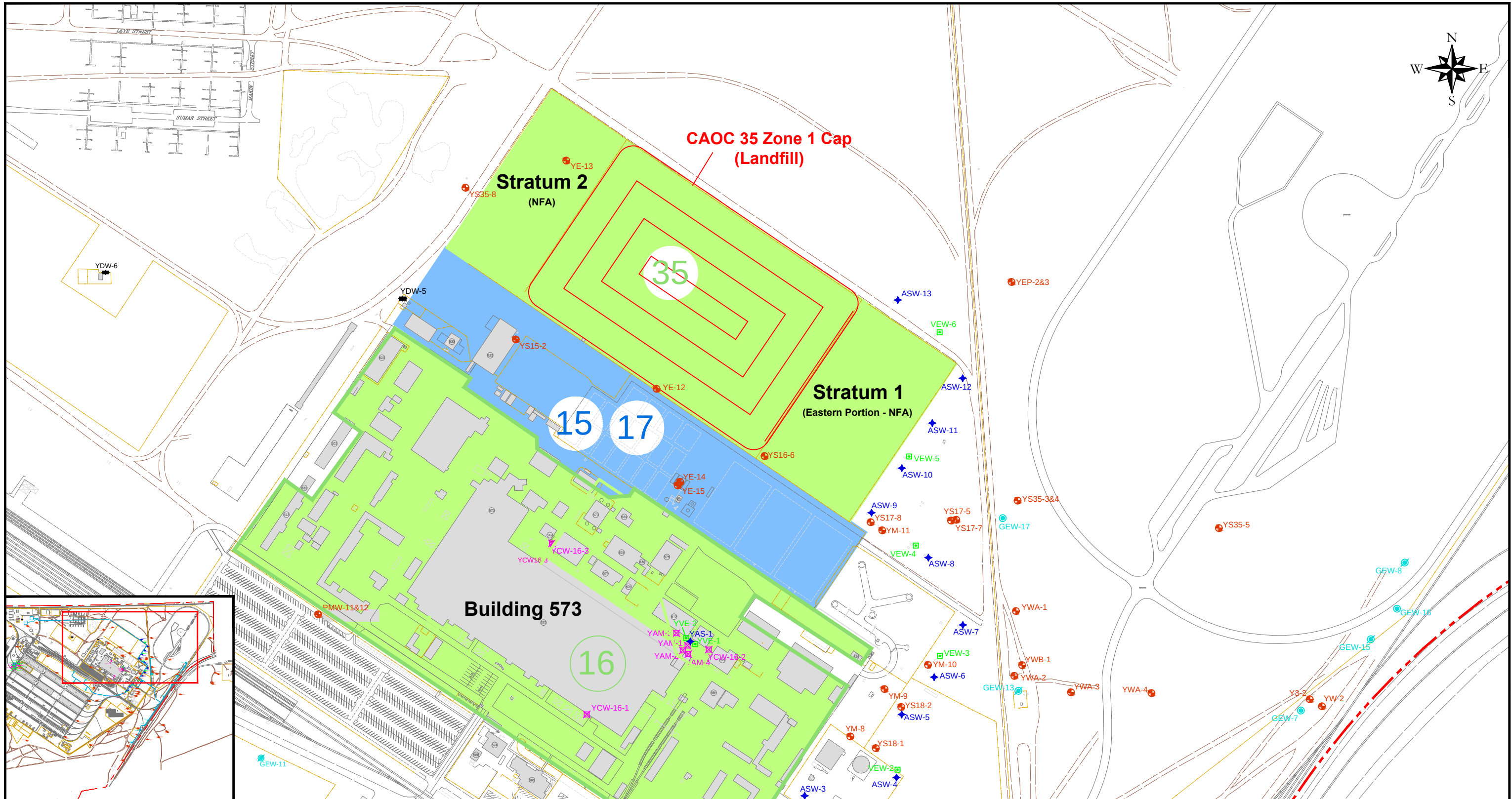
Figure 5-2
OU 5/OU 1 CAOC 16 AS/SVE System

Yermo Annex
Marine Corps Logistics Base
Barstow, California



Date: July 26, 2017

File: Barstow_5yrRev - 2017.dwg
Plotted By: Geoff Brink



Legend

	Paved Road		Groundwater Monitoring Well
	Dirt Road		Piezometer
	Railroad Tracks		Groundwater Extraction Well (Active)
	Fence Line		Groundwater Extraction Well (Inactive)
	Remediation Line		Vapor Extraction Well
	Base Boundary		Air Sparge Well
	Operable Unit 3 (CAOC ##)		Combination Well
	Operable Unit 5 (CAOC ##)		

Notes

- 1) CAOC 35 Zone 1 comprises the western portion of Stratum 1, with a remedy of a soil and gravel cap, plus land use controls (LUCs). Strata 1 (eastern portion) and 2 were closed with no further action (NFA).
- 2) CAOC - CERCLA Area of Concern
CERCLA = Comprehensive Environmental Response, Compensation, and Liability Act

Approximate Scale in Feet



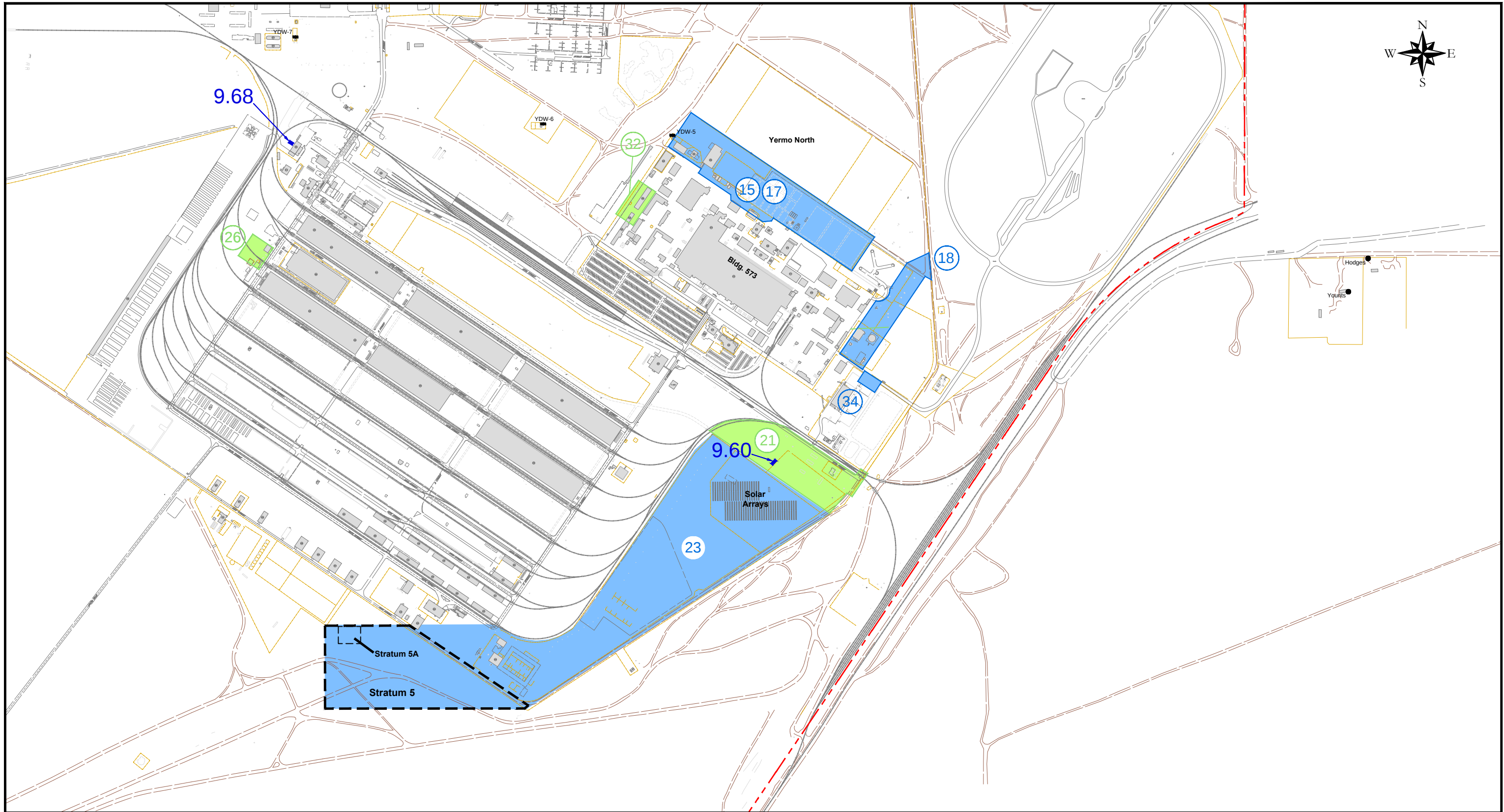
Figure 5-4
OU 5 CAOC 35

Yermo Annex
Marine Corps Logistics Base
Barstow, California



Date: July 26, 2017

File: Barstow_5yrRev - 2017.dwg
Plotted By: Geoff Brink



Legend

- Paved Road
- Dirt Road
- Railroad Tracks
- Base Boundary
- Operable Unit 3 (CAOC ##)
- Operable Unit 5 (CAOC ##)

Notes

- CAOC = CERCLA Area of Concern
CERCLA = Comprehensive Environmental Response, Compensation, and Liability Act
LUCs = Land Use Controls
- CAOCs 9.60 and 9.68 are under OU 7

Approximate Scale in Feet

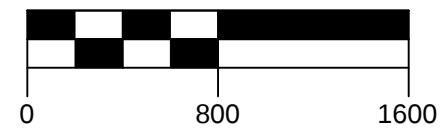


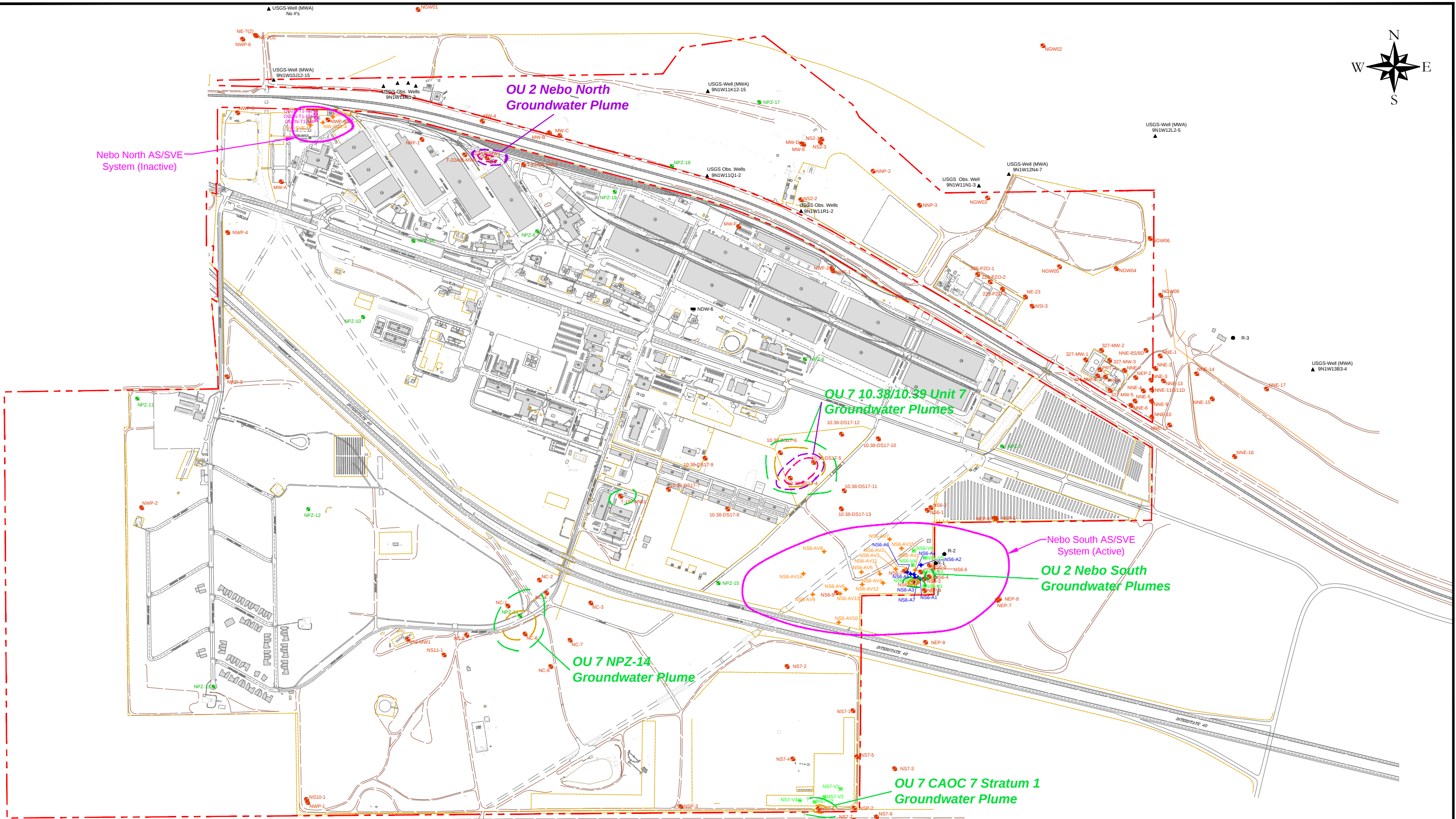
Figure 5-5
CAOCs 15/17, 18, 21, 23, 26, 32,
34, 9.60, and 9.68: LUCs Only Sites

Yermo Annex
Marine Corps Logistics Base
Barstow, California



Date: July 26, 2017

File: Barstow_5yrRev - 2017.dwg



Legend

	Paved Road		Vapor Extraction Well
	Dirt Road		Air Sparge Well
	Railroad Tracks		Vapor Extraction/Air Sparge Well
	Fence Line		USGS Well
	Base Boundary		Residential Well
	Groundwater Monitoring Well		Approximate TCE Isoconcentration Contour (ug/L)
	Piezometer		Approximate TCE Isoconcentration Contour (ug/L)
	Base Groundwater Supply Well		Approximate PCE Isoconcentration Contour (ug/L)
			Approximate PCE Isoconcentration Contour (ug/L)

Notes

- Analytical results shown in ug/L (micrograms per liter) are a from wells sampled during the November 2016 event.
- TCE = Trichloroethene
PCE = Tetrachloroethene
DCE = 1,1-Dichloroethene
CAOC - CERCLA Area of Concern
CERCLA = Comprehensive Environmental Response, Compensation, and Liability Act
OU = Operable Unit

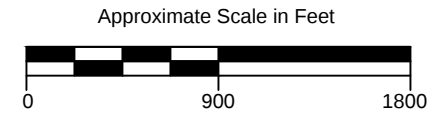
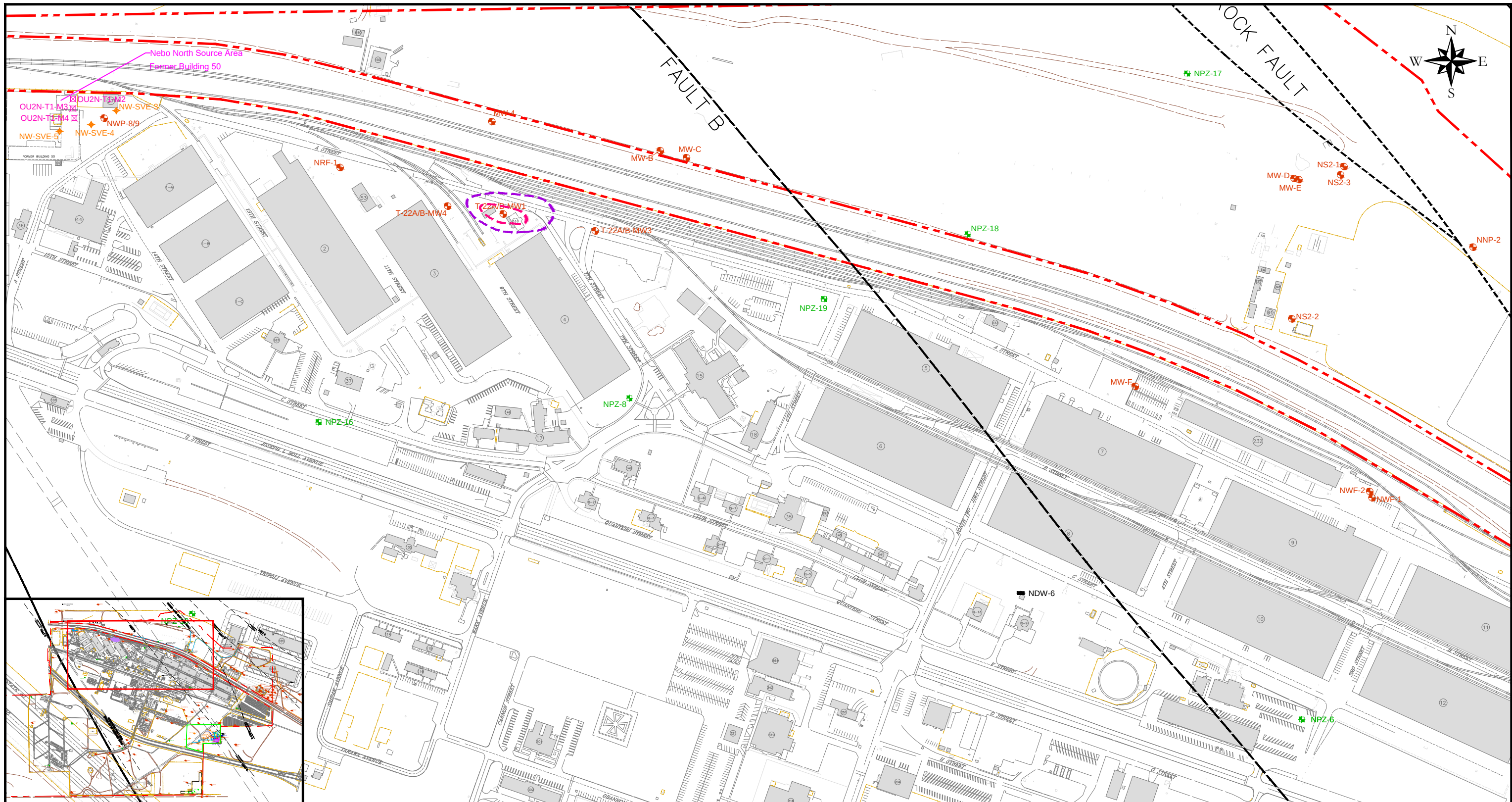


Figure 6-1
OU 2 and OU 7 Groundwater Plumes
and Remediation Systems

Nebo Main Base
Marine Corps Logistics Base
Barstow, California



Date: June 19, 2017
File: Barstow_5yrRev - 2017.dwg
Plotted By: Adam Goldenberg



Legend

	Paved Road		MW-B	Groundwater Monitoring Well
	Dirt Road		NPZ-8	Piezometer
	Railroad Tracks		NDW-6	Base Groundwater Supply Well
	Fence Line		EW-B	Groundwater Extraction Well (Inactive)
	Base Boundary		NW-SVE-3	Vapor Extraction Well
	Fault Traces (strike-slip)		OU2N-T1-M2	Combination Well
			5	Approximate PCE Isoconcentration Contour (ug/L)
			10	Approximate PCE Isoconcentration Contour (ug/L)

Notes

- 1) Analytical results shown in ug/L (micrograms per liter) for the wells sampled during the 2016 Annual Groundwater Monitoring Event.
- 2) The highest detection is reported when a duplicate sample is collected.
- 3) TCE = Trichloroethene
PCE = Tetrachloroethene
MCL = Maximum Contaminant Level
ft bgs = feet below ground surface

Approximate Scale in Feet

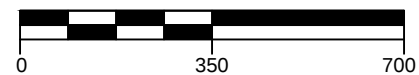
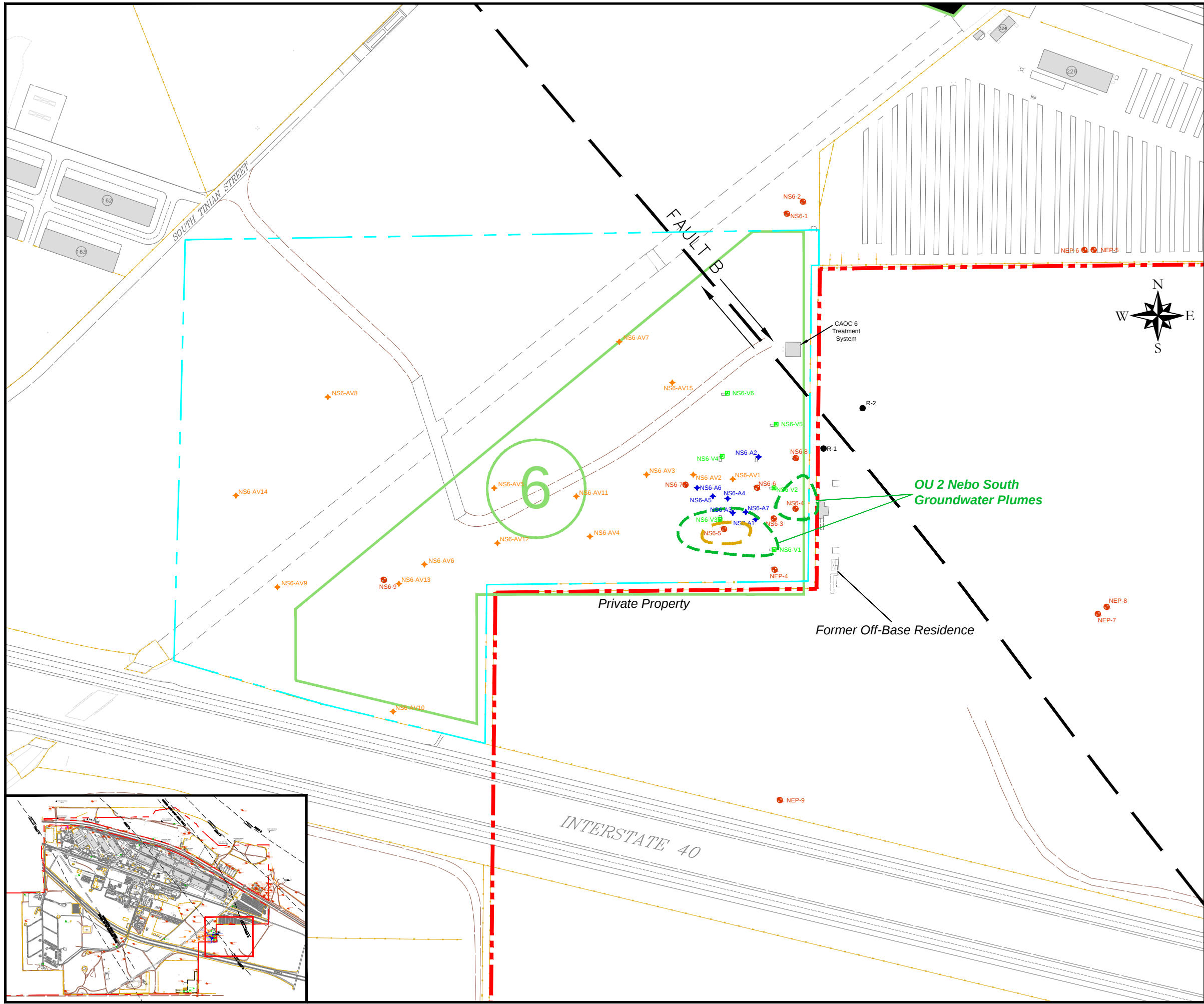


Figure 6-2
OU 2 Nebo North Source Area and
Groundwater Plume (November 2016)

Nebo Main Base
Marine Corps Logistics Base
Barstow, California



Date: March 27, 2017
File: Barstow_5yrRev - 2017.dwg
Plotted By: Mario Camacho



Legend

- Paved Road
- Dirt Road
- Fence Line
- Base Boundary
- Nebo South Land Use Control Boundary
- NS6-1 Groundwater Monitoring Well
- NS6-V4 Vapor Extraction Well
- NS6-A7 Air Sparge Well
- NS6-AV7 Air Sparge/Vapor Extraction Well
- R-1 Residential Well
- Approximate TCE Isoconcentration Contour (ug/L) 5
- Approximate TCE Isoconcentration Contour (ug/L) 10
- Fault Traces (strike-slip)

Notes

- Analytical results shown in ug/L (micrograms per liter) for the wells sampled during the 2016 Annual Groundwater Monitoring Event.
- The highest detection is reported when a field duplicate is collected.
- AS/SVE = Air Sparge / Soil Vapor Extraction
TCE = Trichloroethene
CAOC = CERCLA Area of Concern
CERCLA = Comprehensive Environmental Response, Compensation, and Liability Act

Approximate Scale in Feet

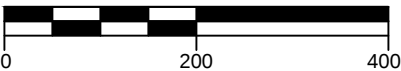


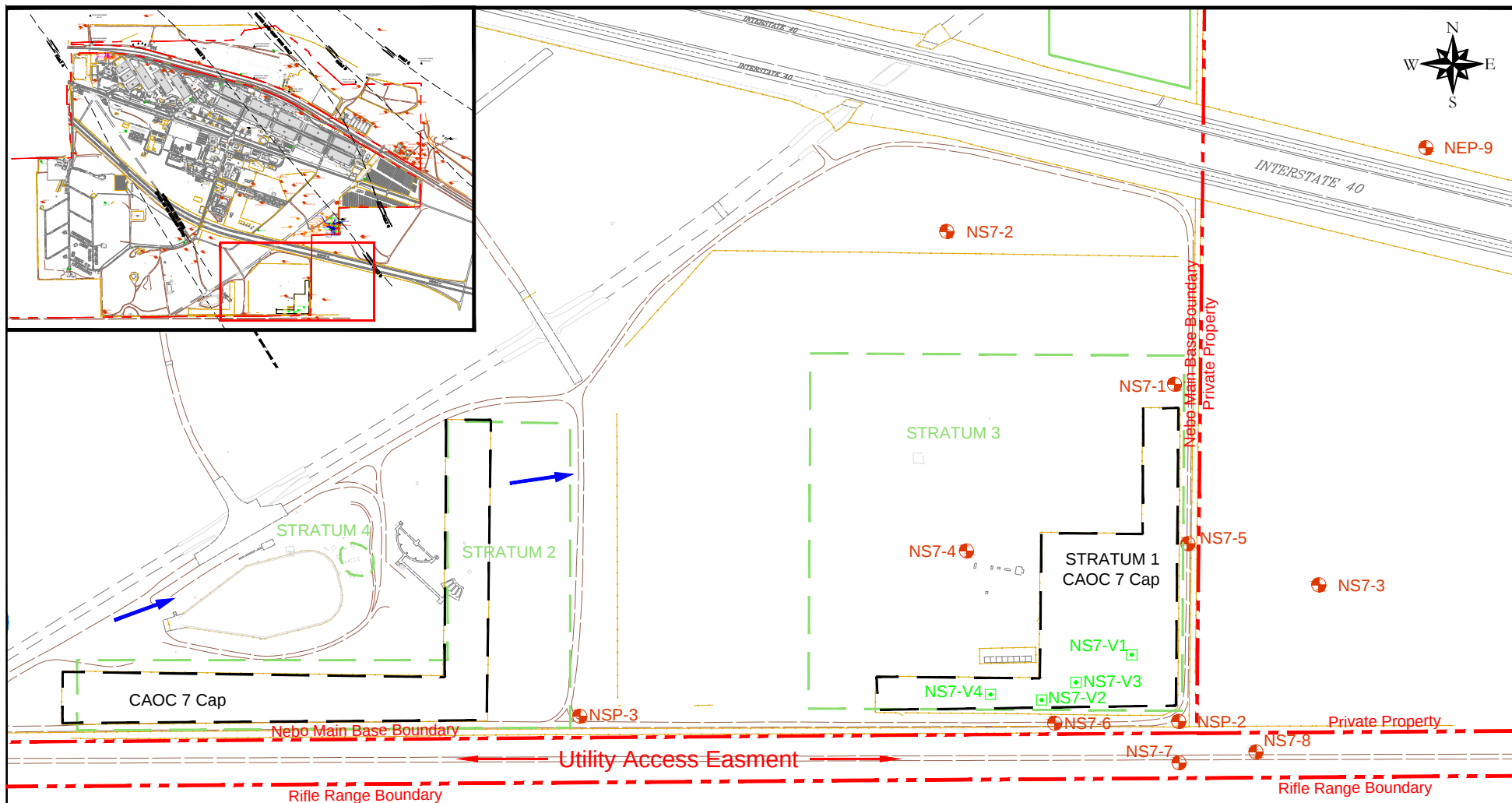
Figure 6-3
OU 2 Nebo South AS/SVE System and
2016 TCE Plumes

Nebo Main Base
Marine Corps Logistics Base
Barstow, California



Date: June 19, 2017

File: Barstow_5yrRev - 2017.dwg
Plotted By: Adam Goldenberg



Legend

- Paved Road
- Dirt Road
- Fence Line
- Base Boundary
- CAOC 7 Boundary
- NSP-3 Groundwater Monitoring Well
- NS7-V1 Vapor Extraction Well
- Groundwater Flow Direction

Notes

- 1) CAOC - CERCLA Area of Concern
CERCLA = Comprehensive Environmental Response, Compensation, and Liability Act

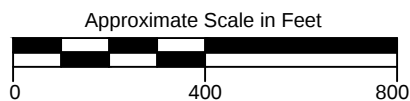
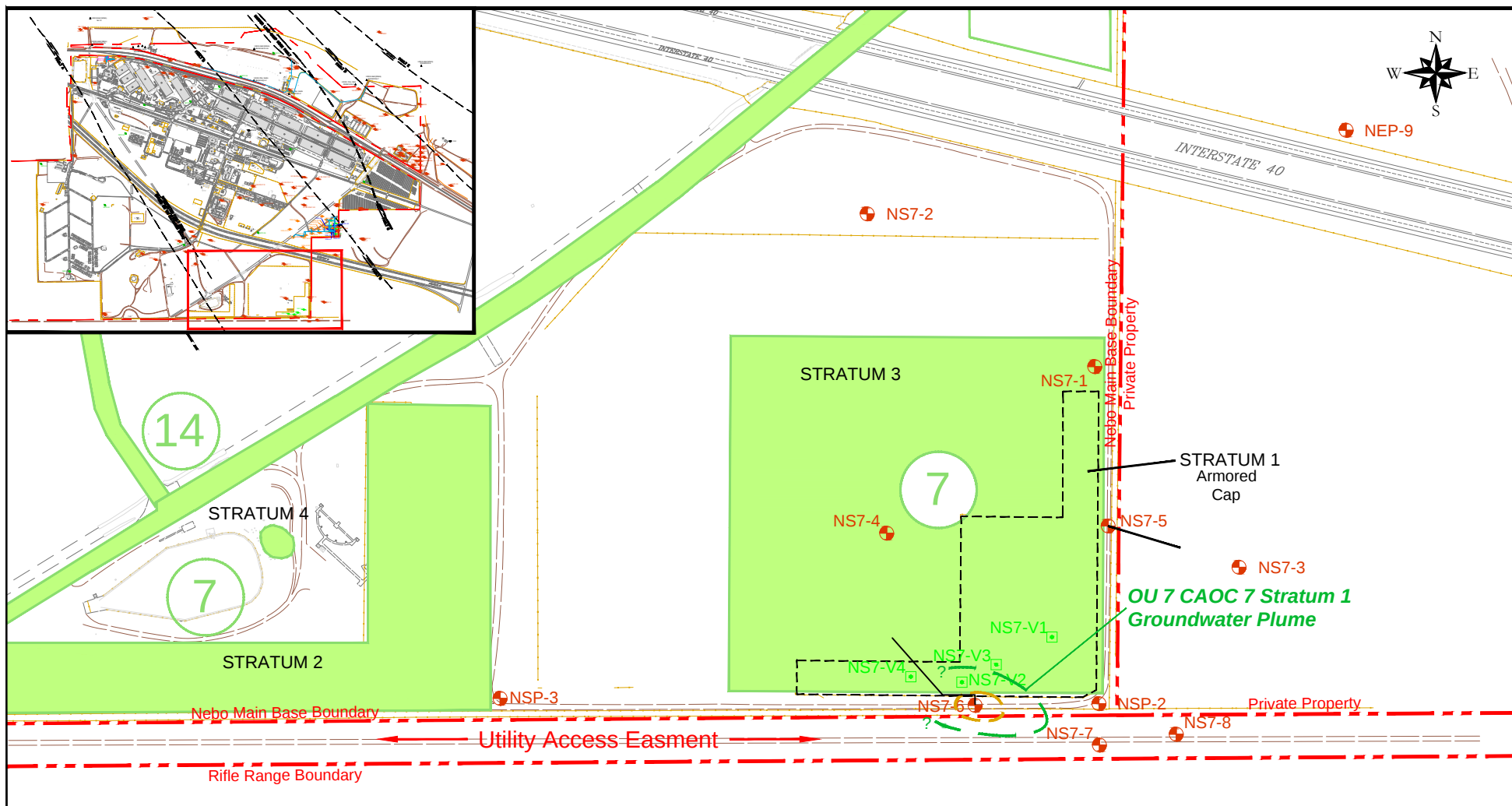


Figure 6-4
OU 6 CAOC 7 Strata 1 - 4

Nebo Main Base
Marine Corps Logistics Base
Barstow, California



Date: June 19, 2017
File: Barstow_5yrRev - 2017.dwg
Plotted By: Adam Goldenberg



Legend

- Paved Road
- Dirt Road
- Fence Line
- Base Boundary
- Operable Unit 6 (CAOC 7)
- NSP-3 Groundwater Monitoring Well
- NS7-V1 Vapor Extraction Well
- 5 Approximate TCE Isoconcentration Contour (ug/L)
- 10 Approximate TCE Isoconcentration Contour (ug/L)
- Stratum 1 Armored Cap Boundary

Acronyms

COC = contaminant of concern
TCE = Trichloroethene
ft bgs = feet below ground surface
U = Not Detected (value indicates detection limit)
OU = operable unit
CAOC - CERCLA Area of Concern
CERCLA = Comprehensive Environmental Response, Compensation, and Liability Act

Approximate Scale in Feet

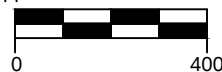


Figure 6-5
OU 7, CAOC 7 Groundwater
TCE Plume (2016)

Nebo Main Base
Marine Corps Logistics Base
Barstow, California



Date: May 5, 2017

File: Barstow_A16.dwg

Plotted By: Geoff Brink