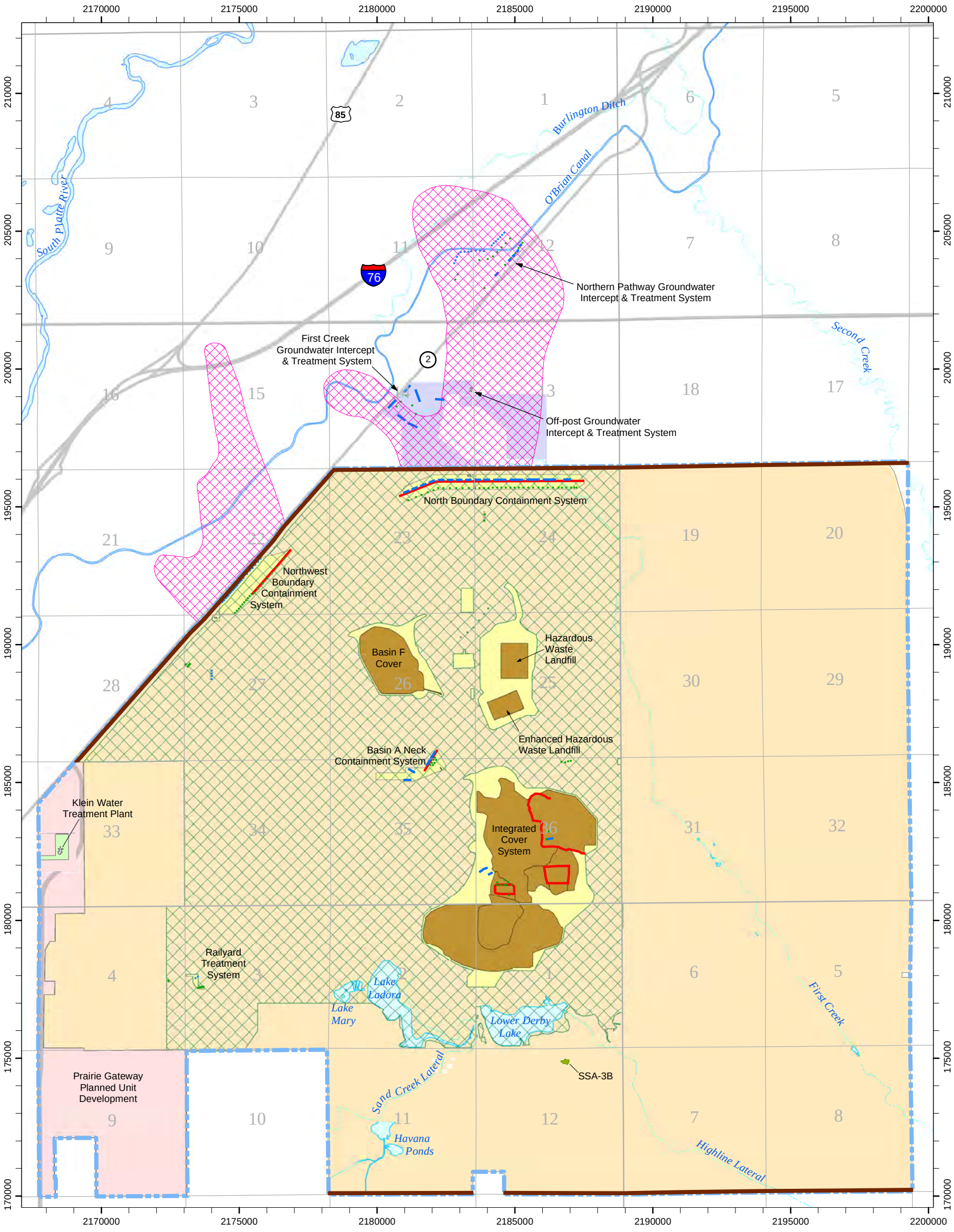
FIGURES



RMA Detail

Figure 1.1-1

- Off-Post Operable Unit
- RMA On-Post Operable Unit
- U.S. Army Jurisdiction
- RMA National Wildlife Refuge
- Transferred RMA Property with Groundwater Remaining on NPL
- Prairie Gateway Planned Unit Development
- 100-Ft Highway Setbacks
- Shell Property
- SSA-3B Sediments
- Caps and Covers
- Lakes and Ponds
- Slurry Walls
- Recharge Trenches
- Intermittent Streams
- Ditches, Canals
- Township & Range Lines
- Section Lines
- Dewatering Wells
- Recharge Wells

N

0 2,000 4,000 6,000
Feet

NAD27-NGVD29 Datum, US Survey Feet, Colorado North Zone

Sources: U.S. Army, RMA GIS, PMC, OMC, Shell/URS Corp.

Rocky Mountain Arsenal GIS

Note: Monitoring wells not shown for clarity. Location of monitoring wells is provided in the Long-Term Monitoring Plan for Groundwater and Surface Water (TtEC & URS 2010)

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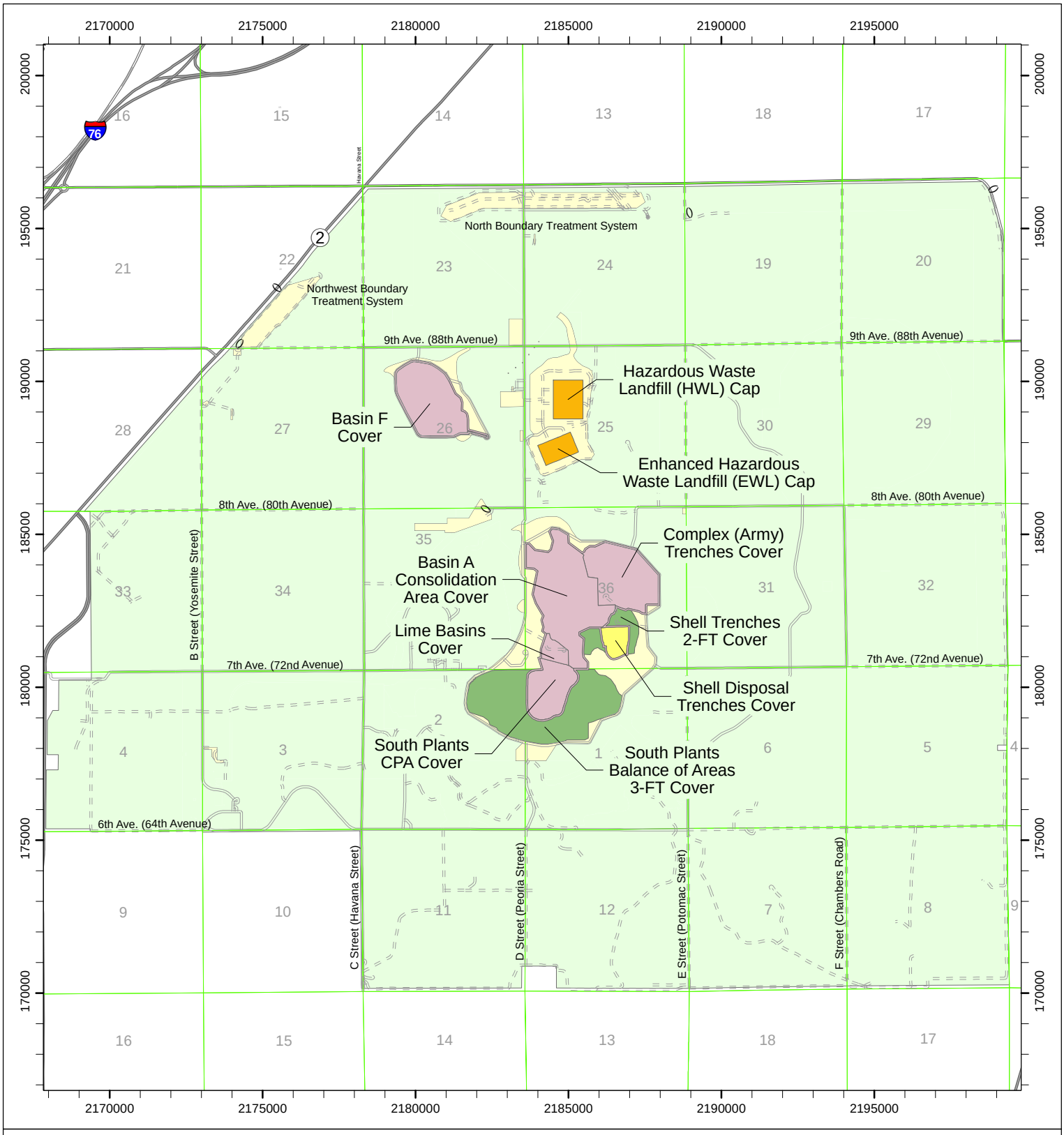

RMA Final Caps and Covers

Legend

- HWL and ELF RCRA Caps
- Integrated Cover System 2-FT/3-FT Cover
- Integrated Cover System/Basin F RCRA-Equivalent Cover
- Shell Disposal Trenches RCRA-Equivalent Cover
- Army Maintained Area
- USFWS Managed Area
- Section Lines
- Paved Road
- Unimproved Road

N

0 2,195 4,390 Feet

NAD27-NGVD29 Datum, US Survey Feet, Colorado North Zone

Sources: U.S. Army, RMA GIS, PMC, OMC, Shell/URS Corp.

Figure 1.4-1

Army/Shell GIS

9/9/2016 RMITS

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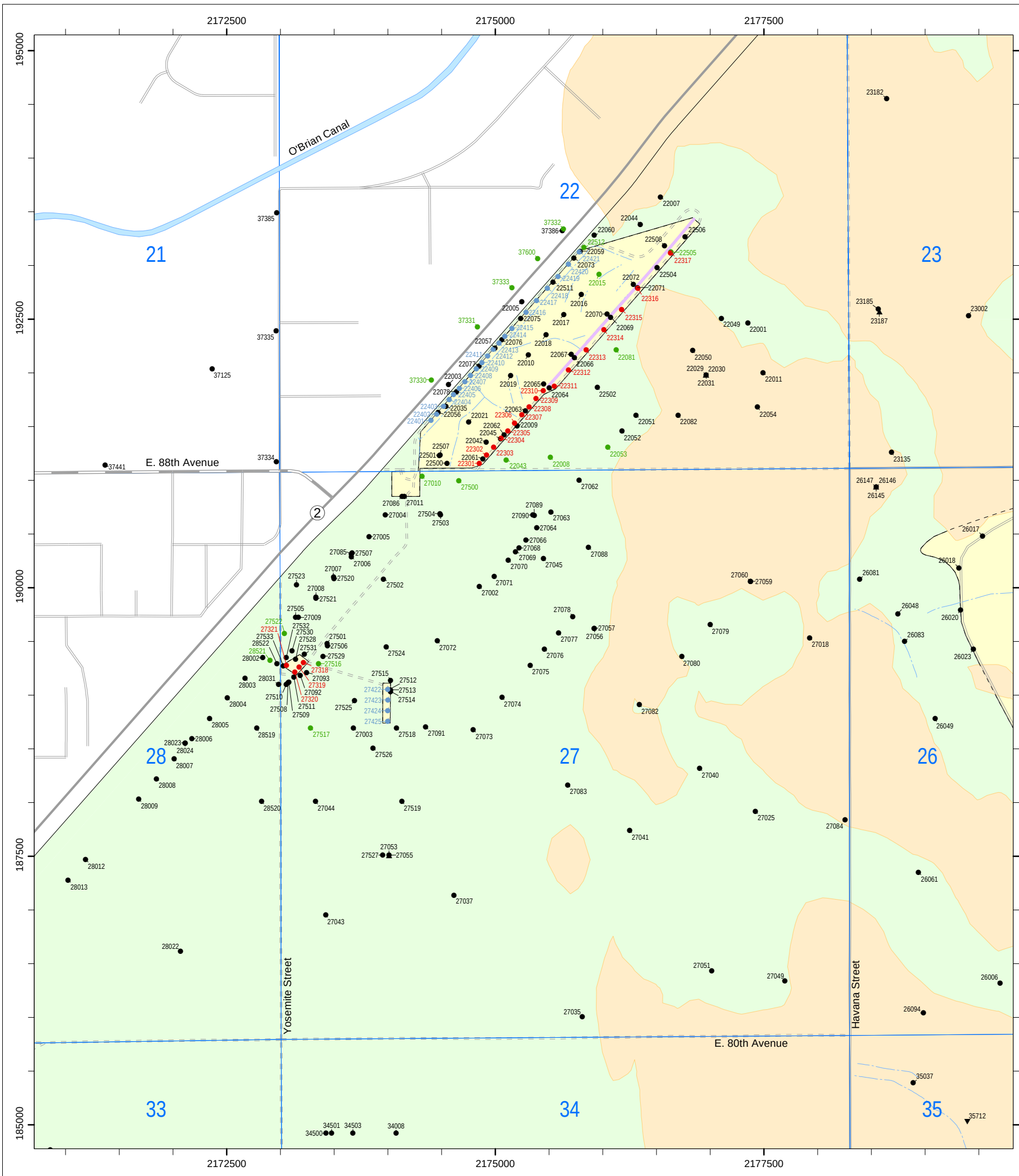

FY14 Northwest Boundary Monitoring Well Network
of the Unconfined Aquifer

Legend

- Performance Wells
- Extraction Wells
- Recharge Wells
- Monitoring Wells
- Confined Flow System
- Unconfined Flow System
- Questionable Flow System
- Slurry Walls
- Unsaturated Alluvium (Developed using summer 2014 data)
- Lakes, Ponds, Rivers
- Army Maintained Area
- USFWS Managed Area
- Army Maintained Area & USFWS Managed Area Border (shown under the Unsaturated Alluvium layer)
- Section Lines
- Ditches
- Light Duty Roads
- Secondary Roads
- Primary Roads
- Unimproved Roads

N

0 500 1,000 1,500

Feet

NAD27-NGVD29 Datum, US Survey Feet, Colorado North Zone

Sources: U.S. Army, RMA GIS, PMC, OMC, Shell/URS Corp.

Figure 5.1.1.1-1

Army/Shell GIS

9/9/2016 RMITS

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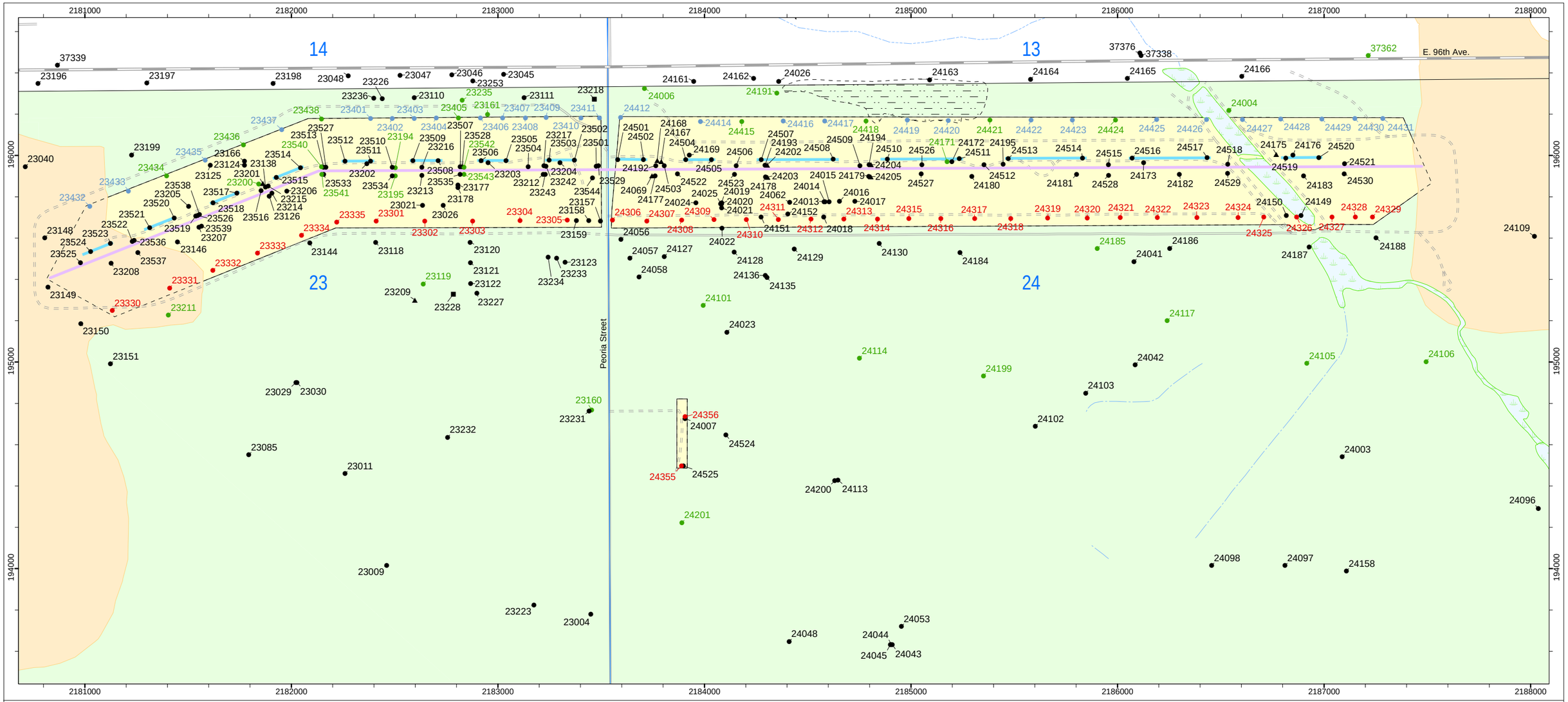

FY14 North Boundary Monitoring Well Network of the Unconfined Aquifer

Legend

- Performance Water Quality Wells
- Extraction Wells
- Former Recharge Wells

Monitoring Wells

- Confined Flow System
- Unconfined Flow System
- Questionable Unconfined Flow System

Slurry Walls

Recharge Trenches

- Local Roads
- Secondary Roads
- Primary Roads
- Unimproved Roads
- Intermittent Streams
- Ditches
- Section Lines

- Dry Lake Areas
- Wetlands
- Lakes and Ponds
- Unsaturated Alluvium (Developed using summer 2014 data)
- Army Maintained Area
- USFWS Managed Area
- Army Maintained Area & USFWS Managed Area Border (shown under the Unsaturated Alluvium layer)

N

0 250 500
Feet

NAD27-NGVD29 Datum, US Survey Feet, Colorado North Zone

Sources: U.S. Army, RMA GIS, PMC, OMC, Shell/URS Corp.

Figure 5.1.1.2-1

Army/Shell GIS

9/9/2016 RMITS

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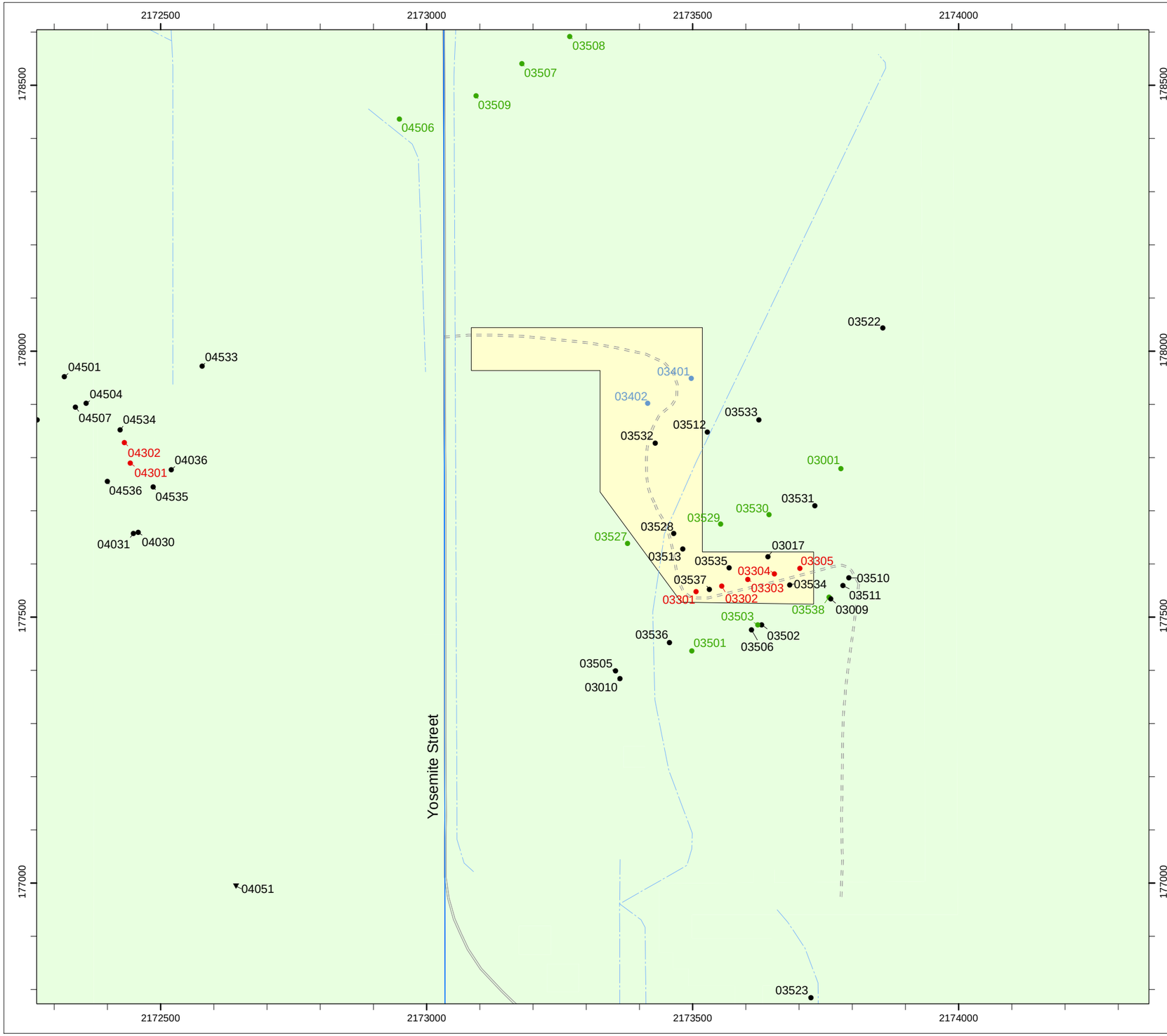

FY14 Railyard Containment System Monitoring Well Network of the Unconfined Aquifer

Legend

- Performance Wells
- Extraction Wells
- Recharge Wells
- Monitoring Wells
  - Confined Flow System
  - Unconfined Flow System
  - Questionable Unconfined Flow System
  - Questionable Flow System
- Ditches
- Paved Roads
- Unimproved Roads
- Section Lines
- Army Maintained Area
- USFWS Managed Area

N

0 100 200
Feet

NAD27-NGVD29 Datum, US Survey Feet, Colorado North Zone

Sources: U.S. Army, RMA GIS, PMC, OMC, Shell/URS Corp.

Figure 5.1.1.3-1

Army/Shell GIS

9/9/2016 RMITS

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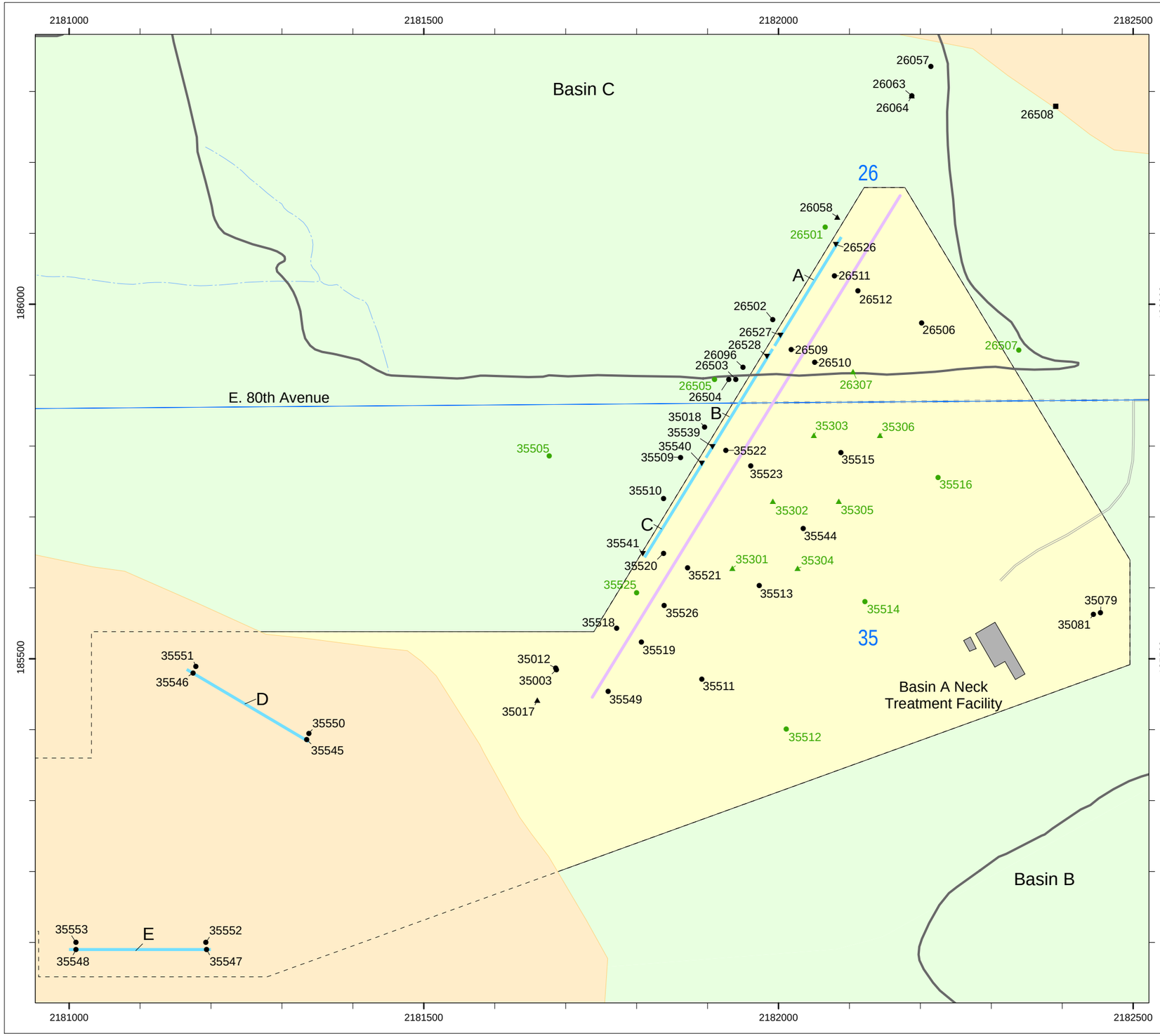

FY14 Basin A Neck Monitoring Well Network of the Unconfined Aquifer

Legend

- Performance Water Quality Wells
- Performance Extraction Wells
- Recharge Wells
- Monitoring Wells
  - Confined Flow System
  - Unconfined Flow System
  - Questionable Unconfined Flow System
  - Questionable Flow System
- Slurry Walls
- Recharge Trenches
- Ditches
- Section Lines
- Paved Roads
- Unimproved Roads
- Buildings
- Unsaturated Alluvium (Developed using summer 2014 data)
- USFWS Managed Area
- Army Maintained Area
- Army Maintained Area & USFWS Managed Area Border (shown under the Unsaturated Alluvium layer)

N

0 75 150
Feet

NAD27-NGVD29 Datum, US Survey Feet, Colorado North Zone

Sources: U.S. Army, RMA GIS, PMC, OMC, Shell/URS Corp.

Figure 5.1.1.4-1

Army/Shell GIS

9/9/2016 RMITS

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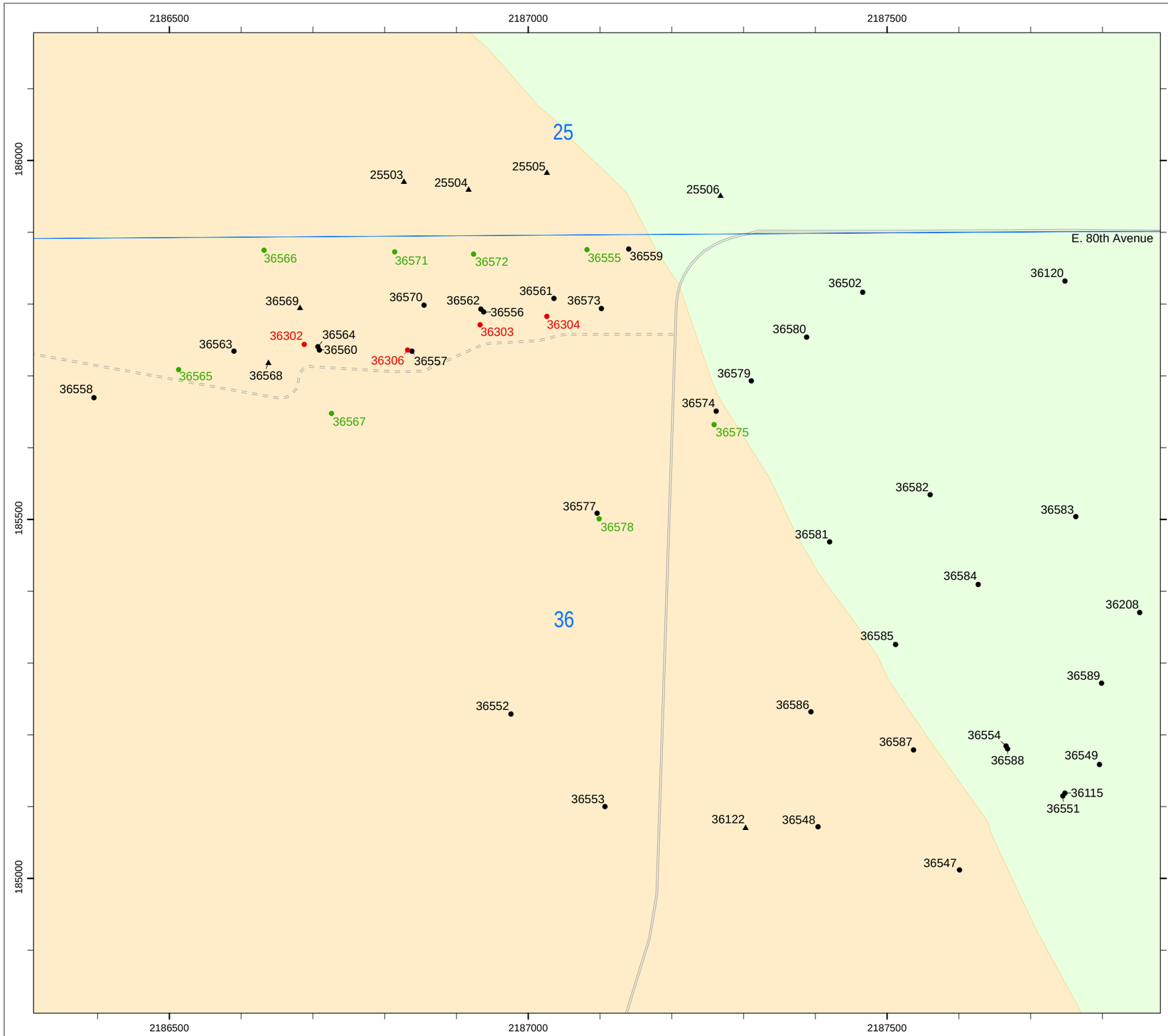

FY14 Bedrock Ridge Monitoring Well Network of the Unconfined Aquifer

Legend

- Performance Water Quality Wells
- Extraction Wells
- Recharge Wells
- Monitoring Wells
  - Confined Flow System
  - Unconfined Flow System
- Section Lines
- Paved Roads
- Unimproved Roads
- Buildings
- Unsaturated Alluvium (Developed using summer 2014 data)
- USFWS Managed Area

N

0 100 200 Feet

NAD27-NGVD29 Datum, US Survey Feet, Colorado North Zone

Sources: U.S. Army, RMA GIS, PMC, OMC, Shell/URS Corp.

Figure 5.1.1.5-1

Army/Shell GIS

9/9/2016 RMITS

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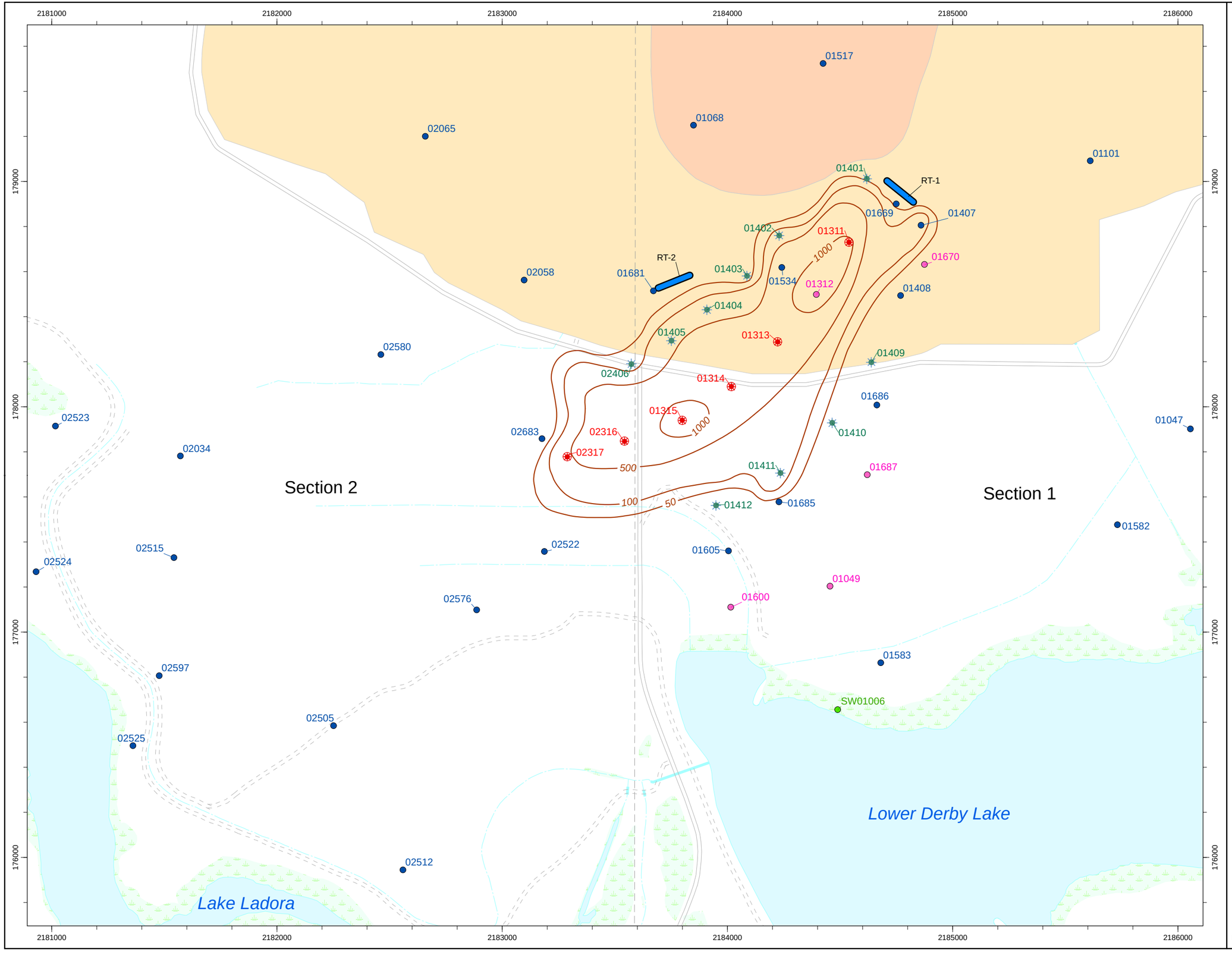

South Tank Farm System

Legend

- Extraction Well
- Recharge Well
- LTMP Water-Level Tracking Well
- GWMR Water Quality Well
- Surface Water Sampling Location
- Recharge Trench
- 2009 Isoconcentration of Benzene in mg/l
- Paved Road
- Unpaved Road
- Section Line
- Ditch, Spillway
- Culvert, Siphon, Sluice, Weir
- RCRA-Equivalent Cover
- South Plants Cover
- Lake or Pond
- Wetland

N

0 200 400
Feet

NAD27-NGVD29 Datum, US Survey Feet, Colorado North Zone

Sources: U.S. Army, RMA GIS, PMC, OMC, Shell/URS Corp.

Figure 5.1.1.6-1

Army/Shell GIS

9/9/2016 RMITS

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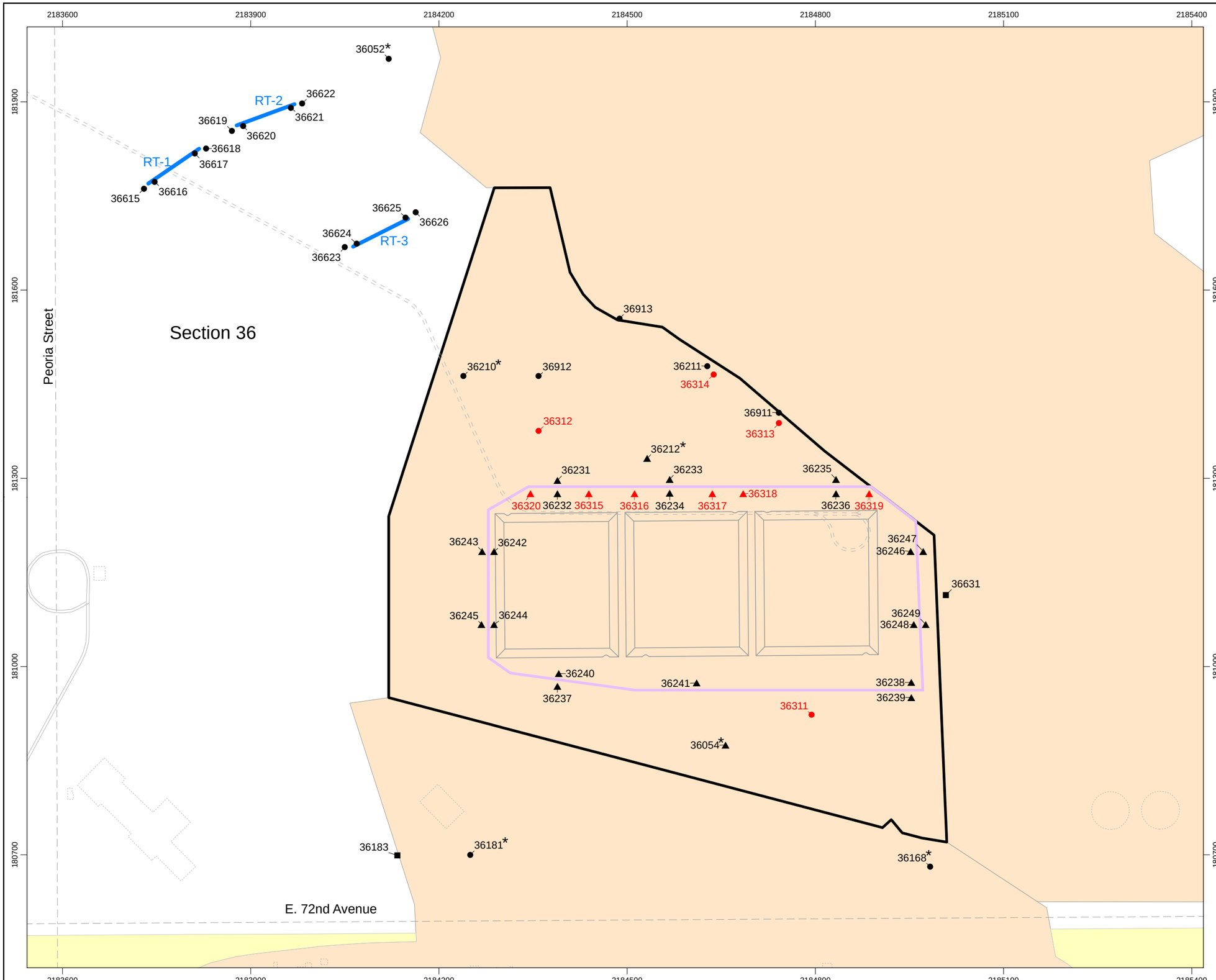

Lime Basins Monitoring Well Network

Groundwater Mass Removal (GWMR) System
Note: The GWMR System is no longer operational

- Extraction Wells
- Monitoring Wells

Slurry Wall Dewatering System

- Extraction Wells
- Monitoring Wells

LTMP Wells

- Monitoring Wells

Note: *= Also an LTMP Well

- Recharge Trench
  Note: Recharge trenches are no longer operational
- Slurry Wall
- Lime Settling Basins
- Paved Road
- Unpaved Road
- Section Line
- Section 36 Lime Basins Project Boundary
- RCRA-Equivalent Cover
- 3-foot Soil Cover
- Structure Location (Removed)

N

0 50 100 150
Feet

NAD27-NGVD29 Datum, US Survey Feet, Colorado North Zone

Sources: U.S. Army, RMA GIS, PMC, OMC, Shell/URS Corp.

Figure 5.1.1.6-3

Army/Shell GIS

9/9/2016 RMITS

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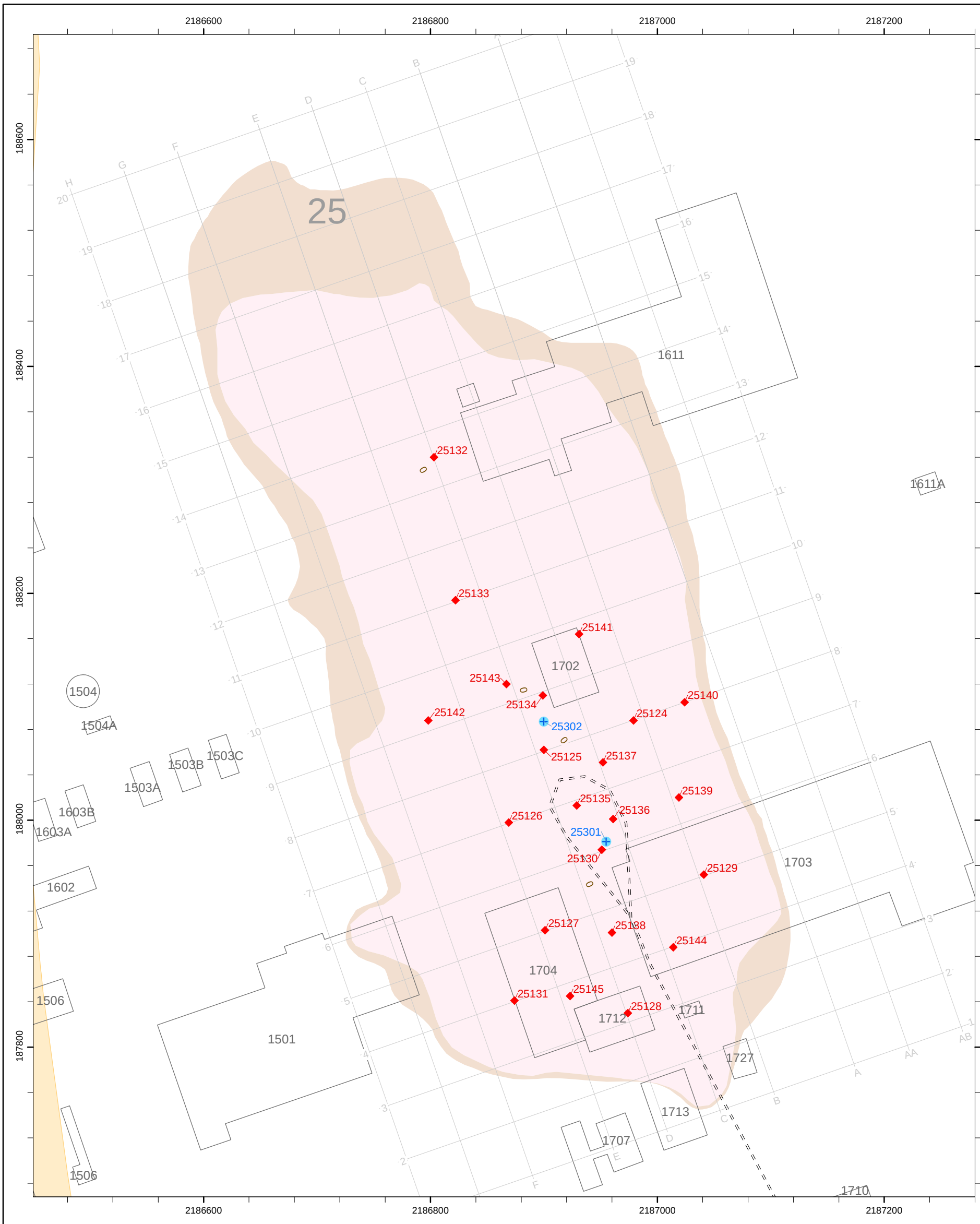

North Plants Pilot LNAPL Removal System
Well Location Map

Legend

- Piezometer
- Recovery Well
- Contaminated Soil (TEPH > 500 mg/kg)
- Stained Soil
- Unpaved Roads
- Unsaturated Alluvium (developed using summer 2014 data)
- Buildings, Foundations, Slabs, And Razed Buildings

N

0 20 40 80 120
Feet

NAD27-NGVD29 Datum, US Survey Feet,
Colorado North Zone

Sources: U.S. Army, RMA GIS, PMC, OMC, Shell/URS Corp.

Figure 5.1.1.8-1

Army/Shell GIS

9/9/2016 RMITS

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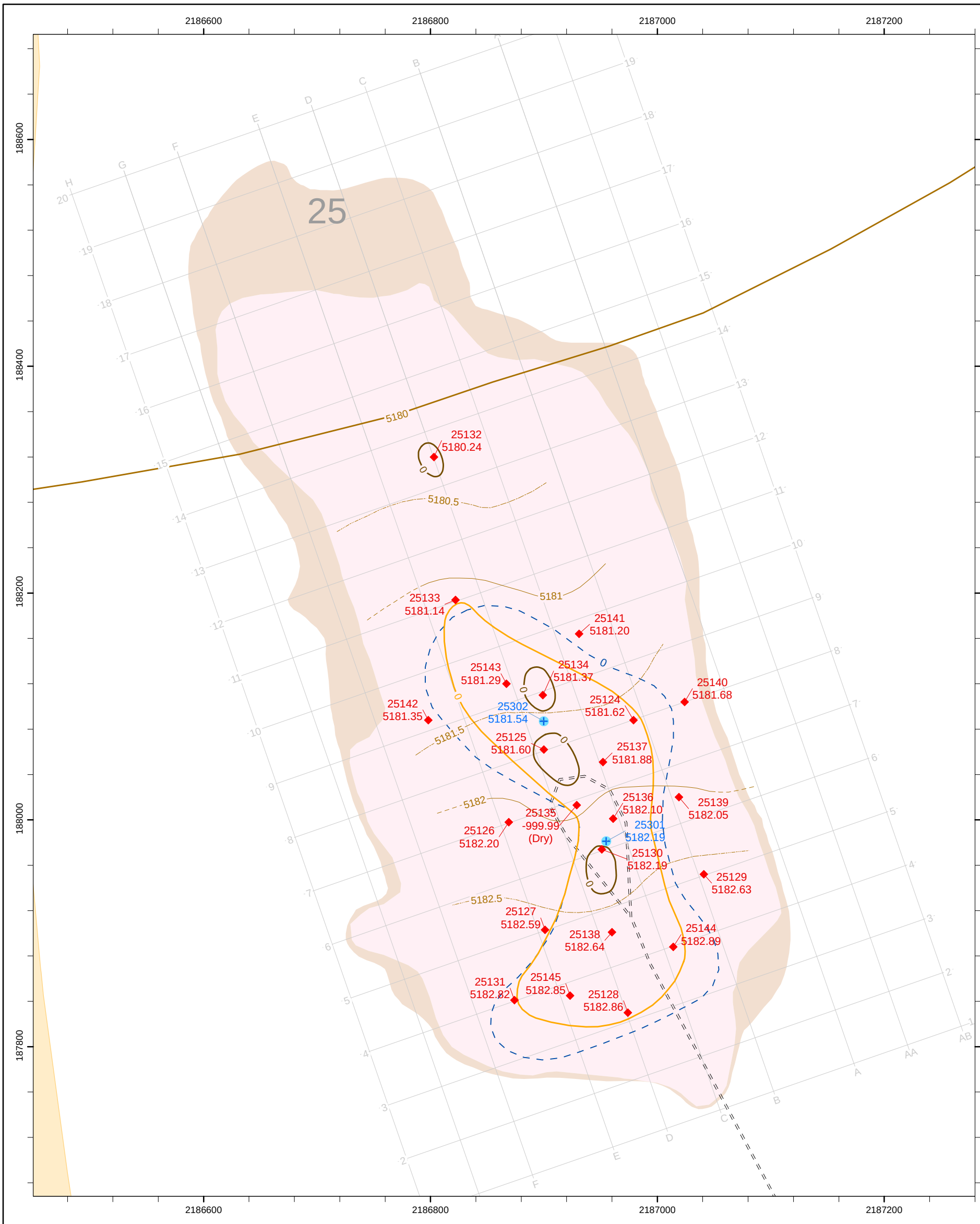

North Plants Pilot LNAPL Project
2004, 2007 and 2010 LNAPL Extent and 2014 Hydraulic Head Elevations

Water Levels Measured 7/17/2014

Legend

- Piezometer
- Recovery Well
- Contaminated Soil (TEPH > 500 mg/kg)
- Stained Soil
- Water elevation contour - 1 foot interval
- Approximate water elevation contour
- Supplemental water elevation contour
- Supplemental approximate water elevation contour
- Free Product Thickness 0" Contour Oct. 2004 (Approximate)
- Free Product Thickness 0" Contour Oct. 2007 (Approximate)
- Free Product Thickness 0" Contour May 2010 (Approximate)
- Unpaved Roads
- Unsaturated Alluvium (developed using summer 2014 data)

N

0 20 40 80 120

Feet

NAD27-NGVD29 Datum, US Survey Feet, Colorado North Zone

Sources: U.S. Army, RMA GIS, PMC, OMC, Shell/URS Corp.

Figure 5.1.1.8-3

Army/Shell GIS

9/9/2016 RMITS

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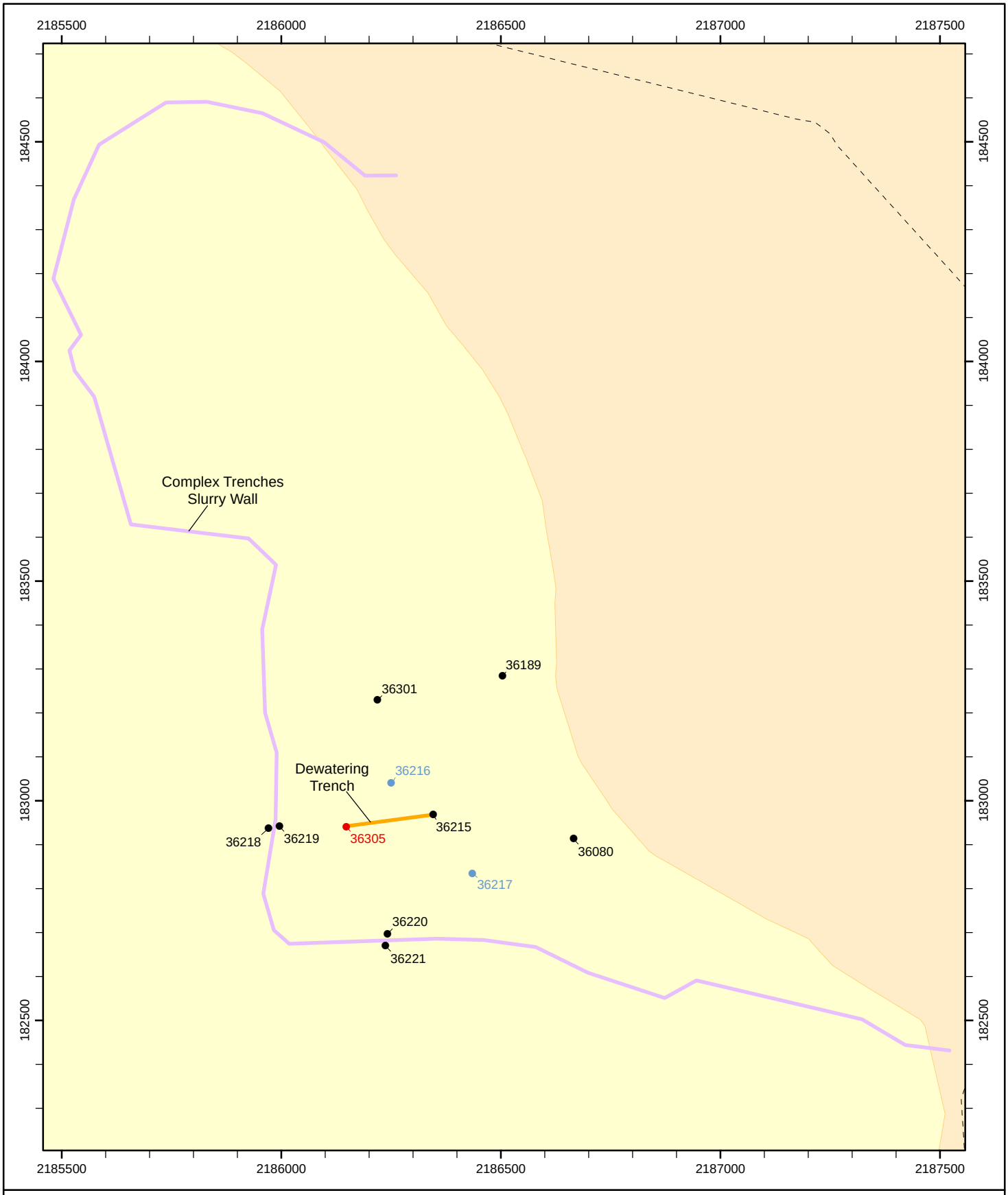

Complex Trenches Dewatering System Well Locations

- Monitoring Wells
- Compliance Wells
- Dewatering Well
- Complex Trenches Slurry Wall
- Dewatering Trench

- Army Maintained Area
- Unsaturated Alluvium (Developed using summer 2014 data)
- Army Maintained Area & USFWS Managed Area Border (shown under the Unsaturated Alluvium layer)

N

0 150 300

Feet

NAD27-NGVD29 Datum, US Survey Feet, Colorado North Zone

Sources: U.S. Army, RMA GIS, PMC, OMC, Shell/URS Corp.

Figure 5.1.2.1-1

Army/Shell GIS

9/9/2016 RMITS

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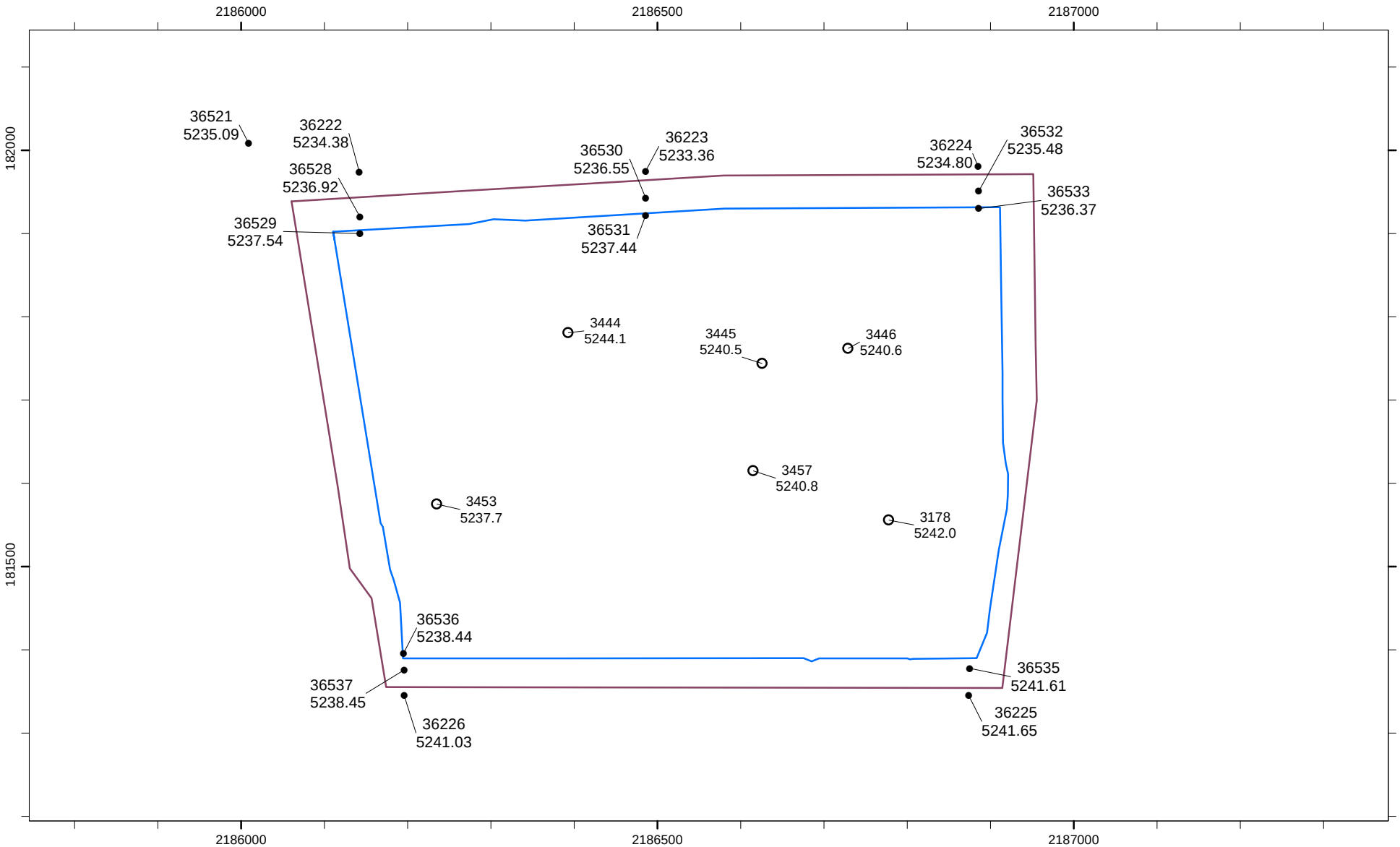

Shell Trenches Well and Borehole Locations

Figure 5.1.2.2-1

Legend

- Monitoring Wells with Site ID and Water Elevation in Feet
- Boreholes With Site ID and Trench Bottom Elevation in Feet
- ROD Slurry Wall
- IRA Slurry Wall

N

0 100 200 Feet

NAD27-NGVD29 Datum, US Survey Feet, Colorado North Zone

Sources: U.S. Army, RMA GIS, PMC, OMC, Shell/URS Corp.

Army/Shell GIS

9/9/2016 RMITS

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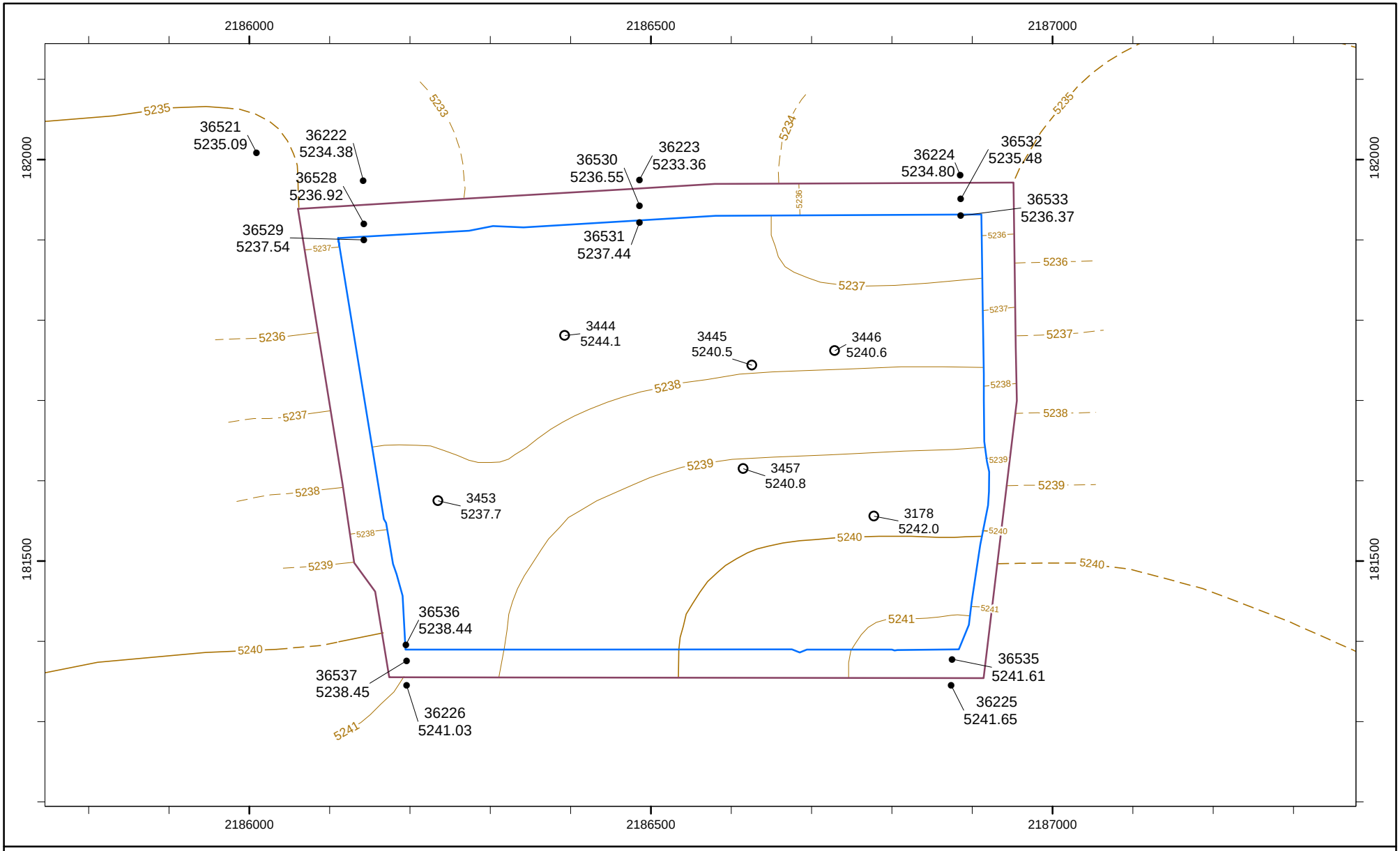

Legend

- Monitoring Wells with Site ID and Water Elevation in Feet
- Boreholes With Site ID and Trench Bottom Elevation in Feet
- ROD Slurry Wall
- IRA Slurry Wall
- Water elevation contours - 1 foot intervals - July 17, 2014
- Approximate water elevation contours - July 17, 2014

Shell Trenches Groundwater Elevations

July 2014 Water Elevations

N

0 100 200 Feet

NAD27-NGVD29 Datum, US Survey Feet, Colorado North Zone

Sources: U.S. Army, RMA GIS, PMC, OMC, Shell/URS Corp.

Figure 5.1.2.2-2

Army/Shell GIS

9/9/2016 RMITS

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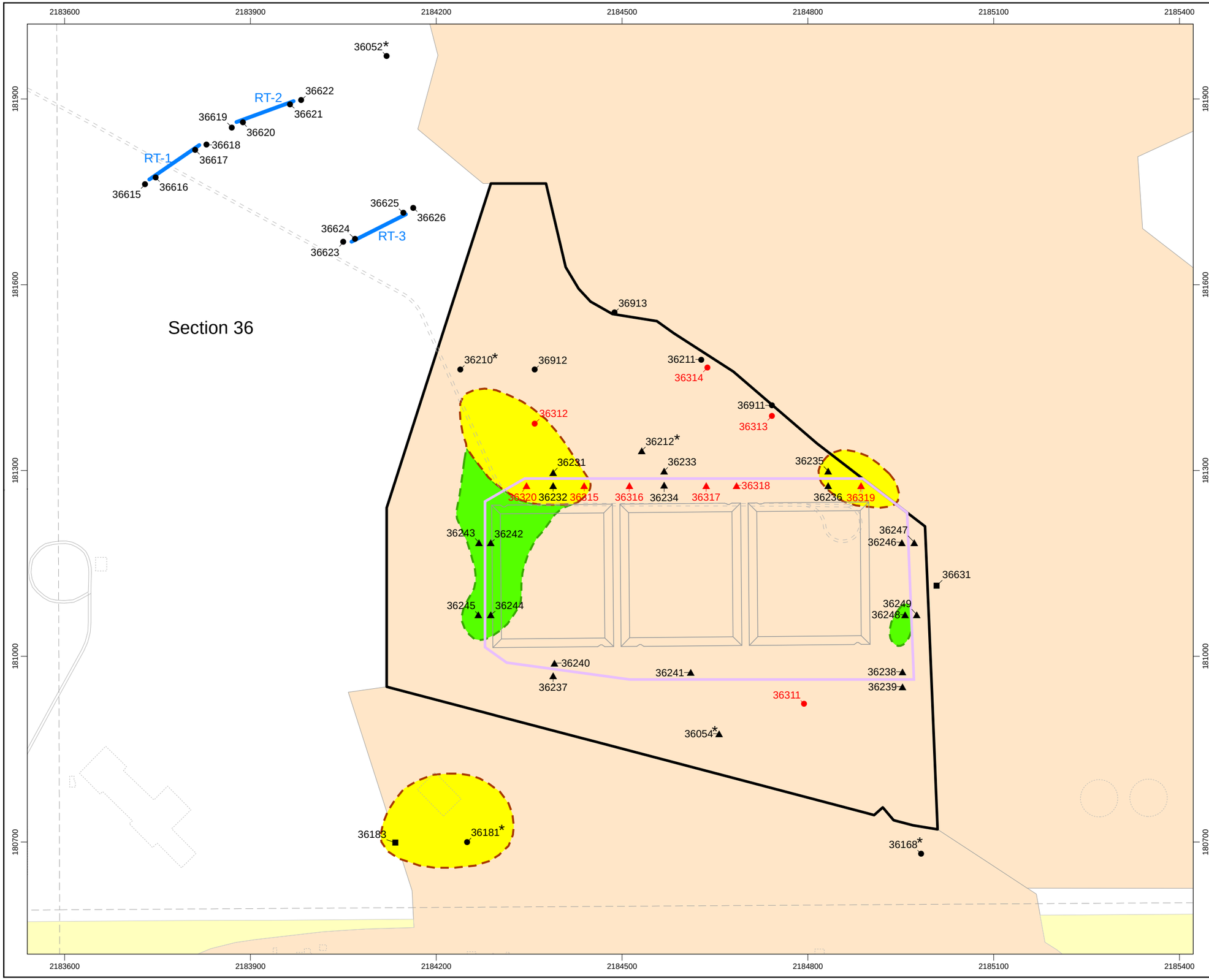

Lime Basins Delineation of Suspected DNAPL Source Zones

Groundwater Mass Removal (GWMR) System
Note: The GWMR System is no longer operational

- Extraction Wells
- Monitoring Wells

Slurry Wall Dewatering System

- Extraction Wells
- Monitoring Wells

LTMP Wells

- Monitoring Wells

Note: * = Also an LTMP Well

- Recharge Trench
  Note: Recharge trenches are no longer operational
- Slurry Wall
- Lime Settling Basins
- Paved Road
- Unpaved Road
- Section Line
- Section 36 Lime Basins Project Boundary
- RCRA-Equivalent Cover
- 3-foot Soil Cover
- Structure Location (Removed)
- FY13 Monitoring Data
- DNAPL RI/FS Data

N

0 50 100 150
Feet

NAD27-NGVD29 Datum, US Survey Feet, Colorado North Zone

Sources: U.S. Army, RMA GIS, PMC, OMC, Shell/URS Corp.

Figure 5.1.2.4-1

Army/Shell GIS

9/9/2016 RMITS

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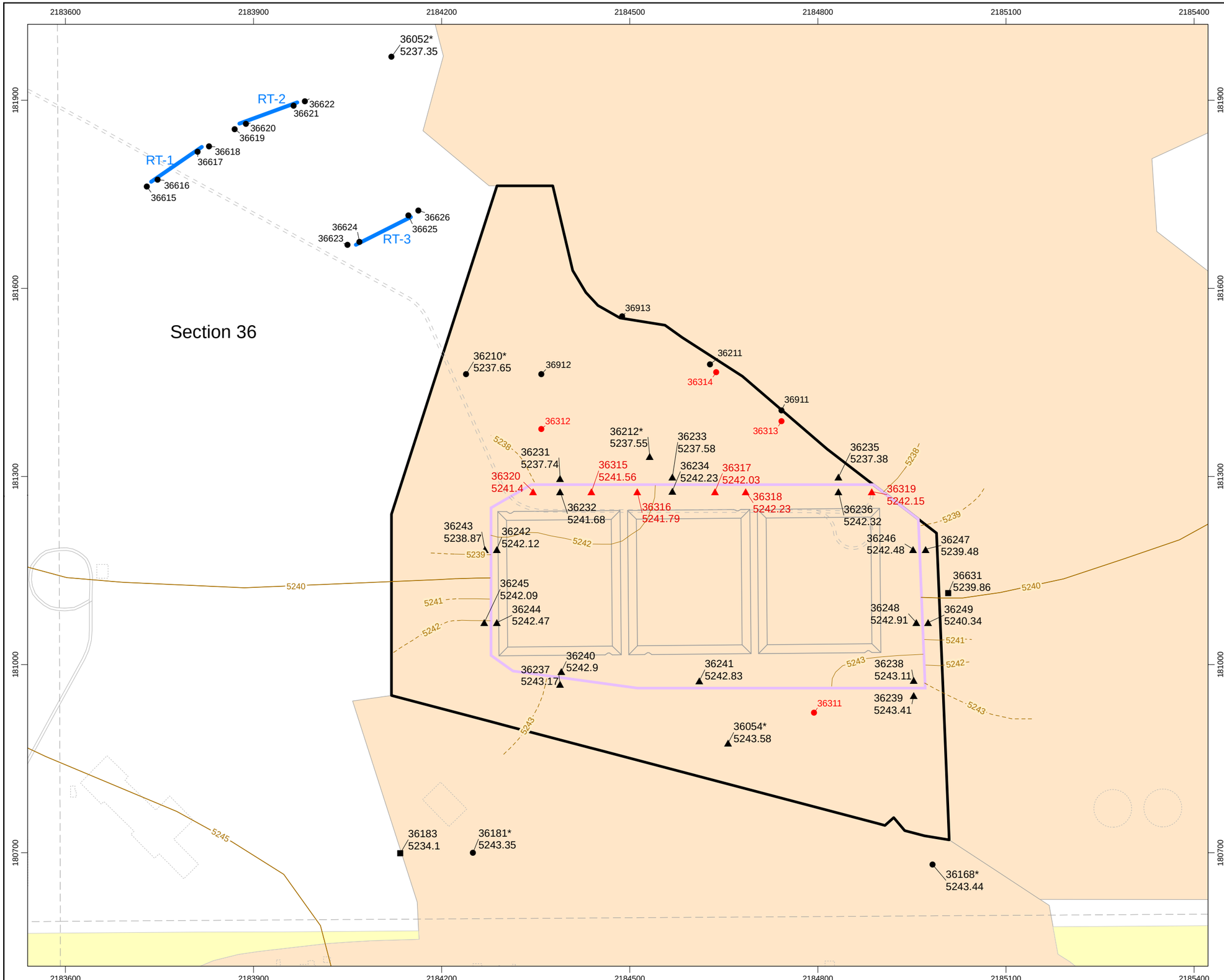

Lime Basins Groundwater System Water Table July - September 2014

Groundwater Mass Removal (GWMR) System
Note: The GWMR System is no longer operational

- Extraction Wells
- Monitoring Wells

Slurry Wall Dewatering System

- Extraction Wells
- Monitoring Wells

LTMP Wells

- Monitoring Wells

Note: * = Also an LTMP Well

- Recharge Trench

Note: Recharge trenches are no longer operational

- Slurry Wall
- Lime Settling Basins
- Paved Road
- Unpaved Road
- Section Line
- Section 36 Lime Basins Project Boundary
- RCRA-Equivalent Cover
- 3-foot Soil Cover
- Structure Location (Removed)
- Water elevation contour - 1 ft interval. Hachures indicate depression. Water elevations collected July 2014
- Approximate water elevation contour

N

0 50 100 150
Feet

NAD27-NGVD29 Datum, US Survey Feet, Colorado North Zone

Sources: U.S. Army, RMA GIS, PMC, OMC, Shell/URS Corp.

Figure 5.1.2.4-2

Army/Shell GIS

9/9/2016 RMITS

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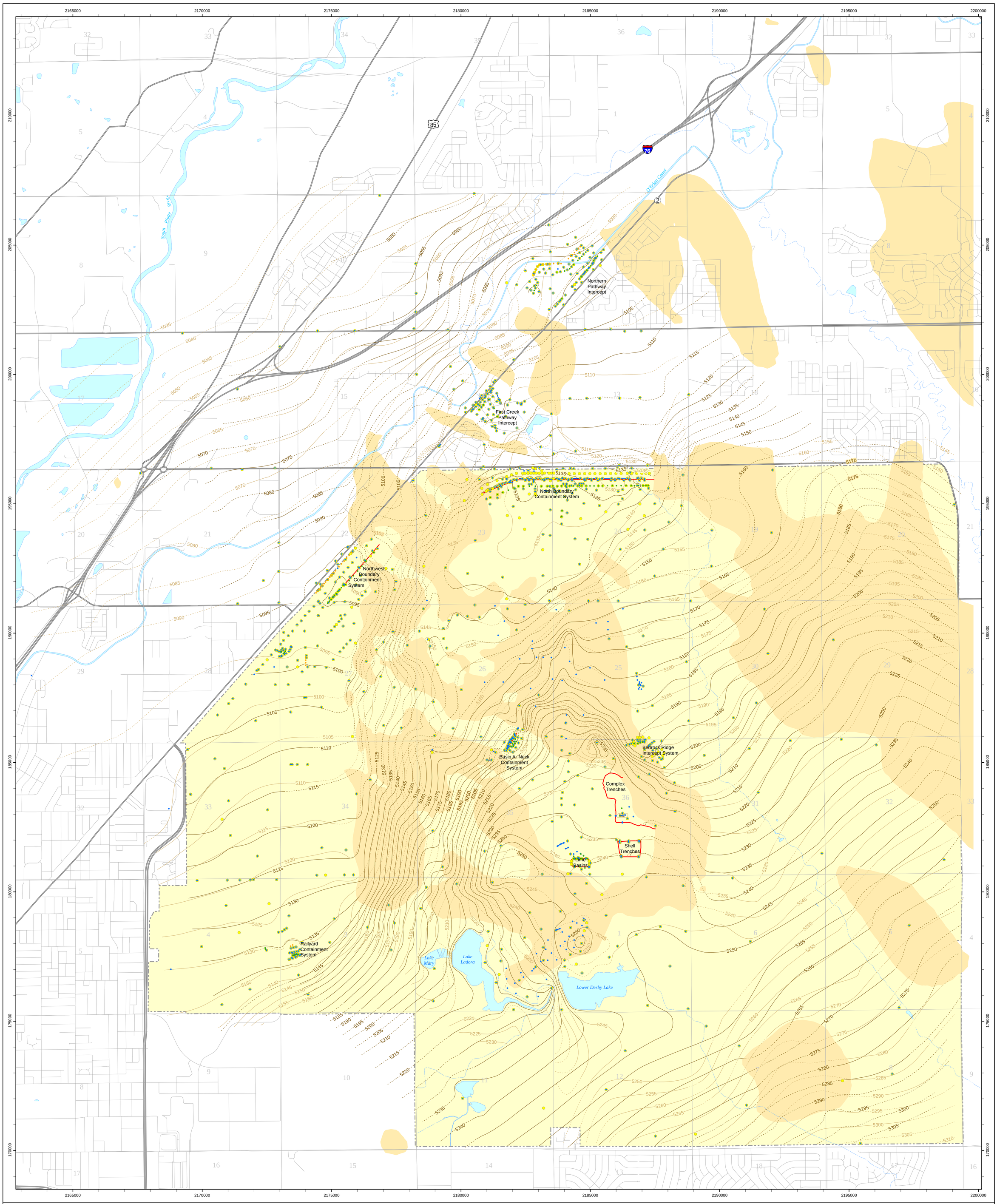

Groundwater Level Comparison Contour Map for Fiscal Years 2009 - 2014

Legend

- Rocky Mountain Arsenal (On-Post Operable Unit)
- 2014 Dry Alluvium
- Section Lines
- Lakes, Ponds, Rivers
- Offpost Primary Roads
- Offpost Secondary Roads
- Offpost Light Duty Roads
- Intermittent Streams
- Ditches and Canals
- Slurry Wall
- Trench
- Water Level Contour - 2014
- Approximate Water Level Contour - 2014
- Water Level Contour - 2009
- Approximate Water Level Contour - 2009
- Extraction Wells
- Recharge Wells
- 2009 Wells Used For Contouring
- 2014 Wells Used For Contouring

N

0 2,000 4,000 6,000
Feet

NAD27-NGVD29 Datum, US Survey Feet, Colorado North Zone

Sources: U.S. Army, RMA GIS, PMC, OMC, Shell/URS Corp.

Figure 5.1.3-1

Army/Shell GIS

9/9/2016 RMITS

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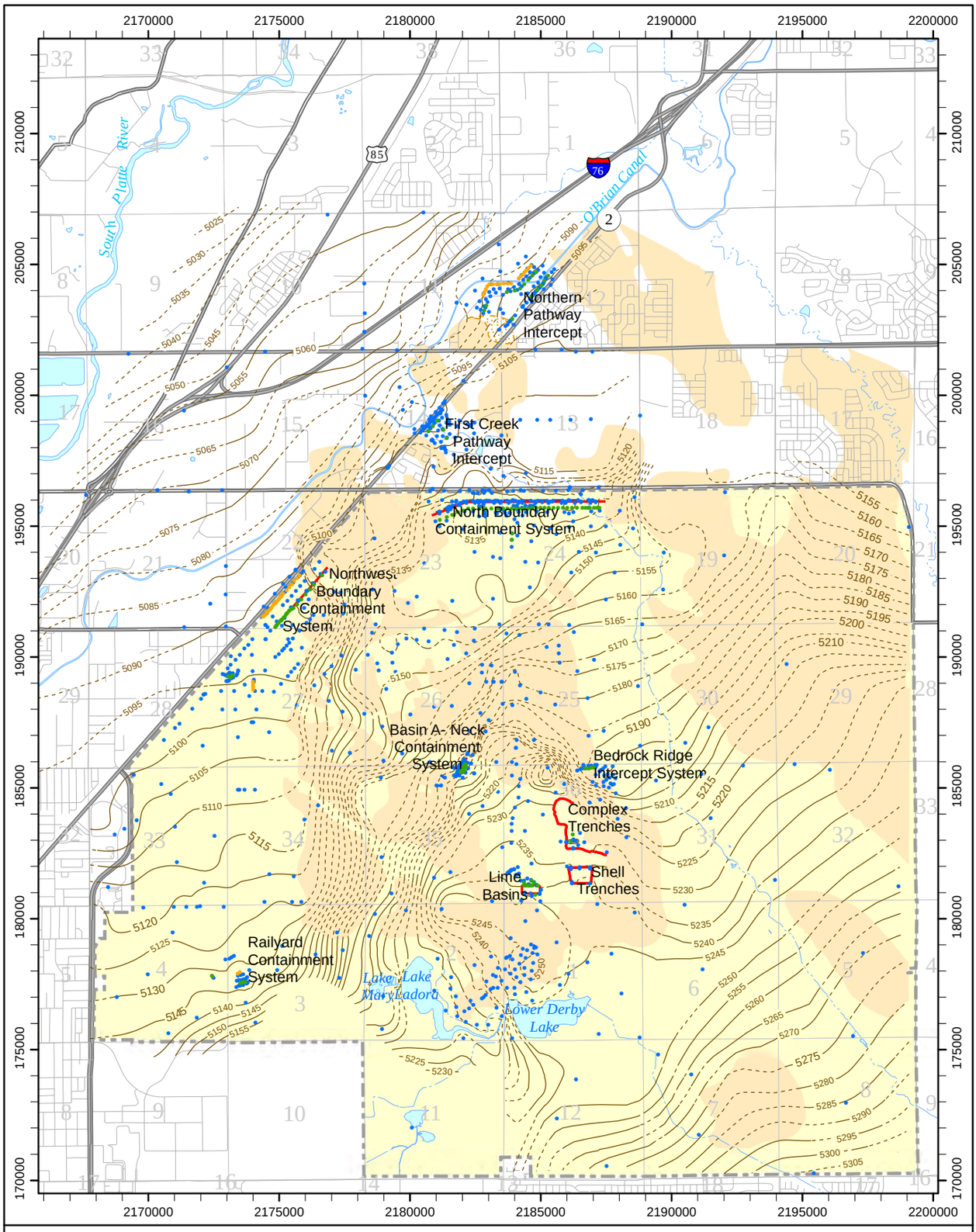

Site Wide Groundwater Level Contour Map
for Fiscal Year 2010

Legend

- Rocky Mountain Arsenal (On-Post Operable Unit)
- 2010 Dry Alluvium
- Low Permeability Alluvial Sediments
- Section Lines
- Offpost Primary Roads
- Offpost Secondary Roads
- Offpost Light Duty Roads
- Slurry Wall
- Trench
- Lakes, Ponds, Rivers
- Intermittent Streams
- Ditches and Canals
- Water Level Contour - 2010
- Approximate Water Level Contour - 2010
- Extraction Wells
- Recharge Wells
- 2010 Wells Used For Contouring

N

0 2,000 4,000 6,000
Feet

NAD27-NGVD29 Datum, US Survey Feet, Colorado North Zone

Sources: U.S. Army, RMA GIS, PMC, OMC, Shell/URS Corp.

Figure 5.1.3-2

Army/Shell GIS

9/9/2016 RMITS

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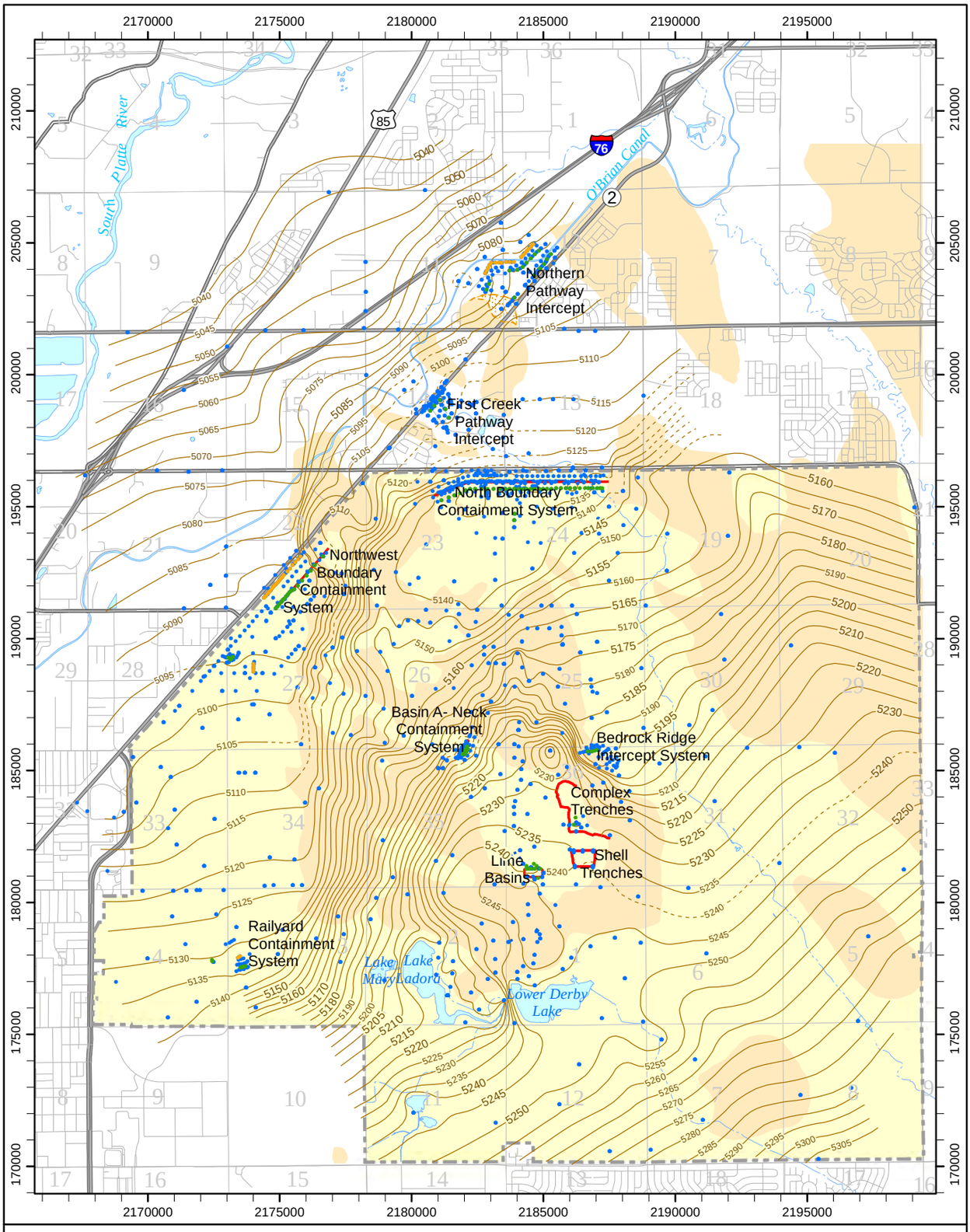

Site Wide Groundwater Level Contour Map
for Fiscal Year 2011

Legend

- Rocky Mountain Arsenal (On-Post Operable Unit)
- 2011 Dry Alluvium
- Low Permeability Alluvial Sediments
- Section Lines
- Offpost Primary Roads
- Offpost Secondary Roads
- Offpost Light Duty Roads
- Slurry Wall
- Trench
- Lakes, Ponds, Rivers
- Intermittent Streams
- Ditches and Canals
- Water Level Contour - 2011
- Approximate Water Level Contour - 2011
- 2011 Wells Used For Contouring
- Extraction Wells
- Recharge Wells

N

0 2,000 4,000 6,000
Feet

NAD27-NGVD29 Datum, US Survey Feet, Colorado North Zone

Sources: U.S. Army, RMA GIS, PMC, OMC, Shell/URS Corp.

Figure 5.1.3-3

Army/Shell GIS

9/9/2016 RMITS

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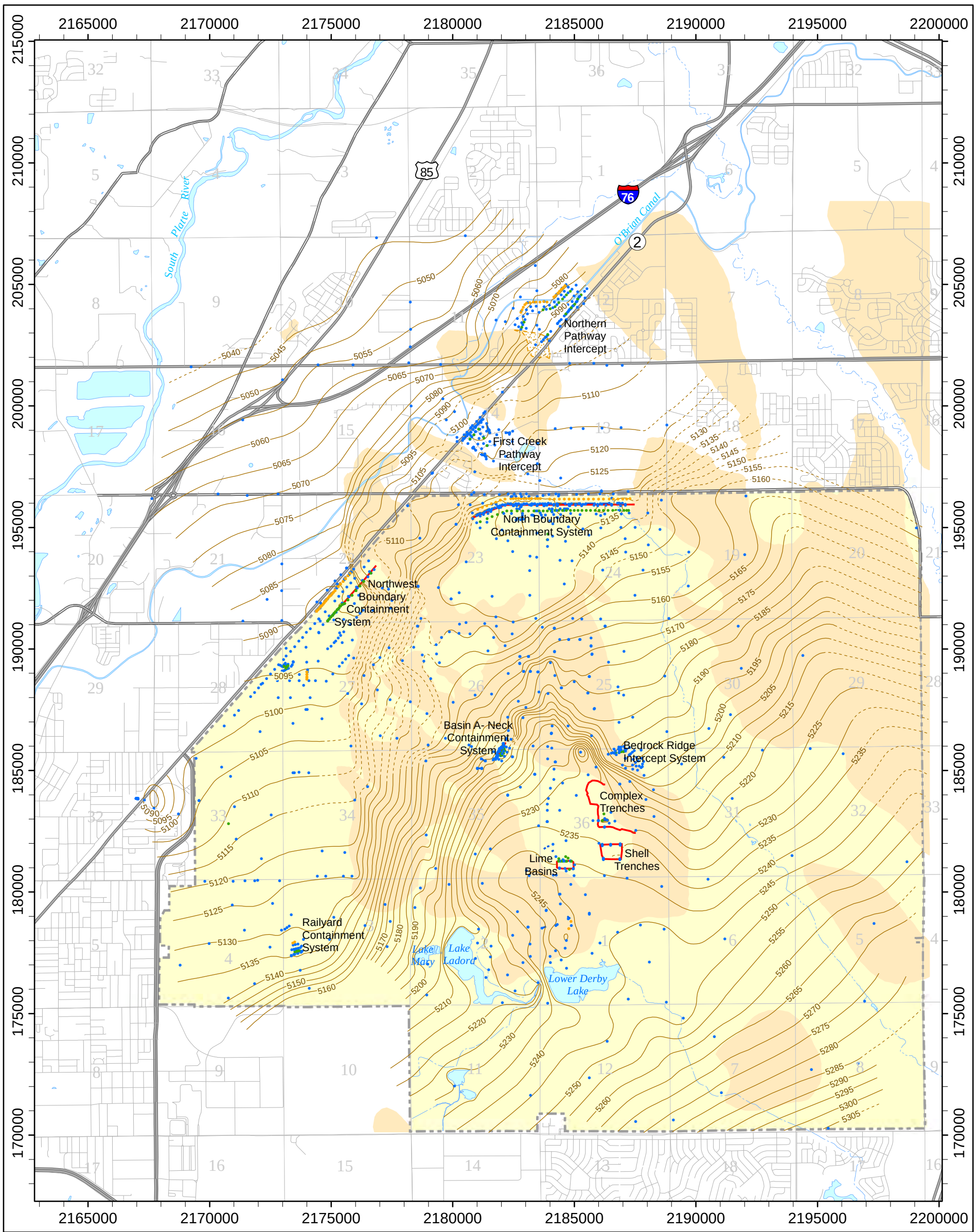

Site Wide Groundwater Level Contour Map for Fiscal Year 2012

Legend

- Rocky Mountain Arsenal (On-Post Operable Unit)
- 2012 Dry Alluvium
- Low Permeability Alluvial Sediments
- Section Lines
- Offpost Primary Roads
- Offpost Secondary Roads
- Offpost Light Duty Roads
- Slurry Wall
- Trench
- Lakes, Ponds, Rivers
- Intermittent Streams
- Ditches and Canals
- Water Level Contour - 2012
- Approximate Water Level Contour - 2012
- Monitoring Wells Used For Contouring
- Extraction Wells
- Recharge Wells

N

0 2000 4000 6000

Feet

NAD27-NGVD29 Datum, US Survey Feet, Colorado North Zone

Sources: U.S. Army, RMA GIS, PMC, OMC, Shell/URS Corp.

Figure 5.1.3-4

Army/Shell GIS

9/9/2016 RMITS

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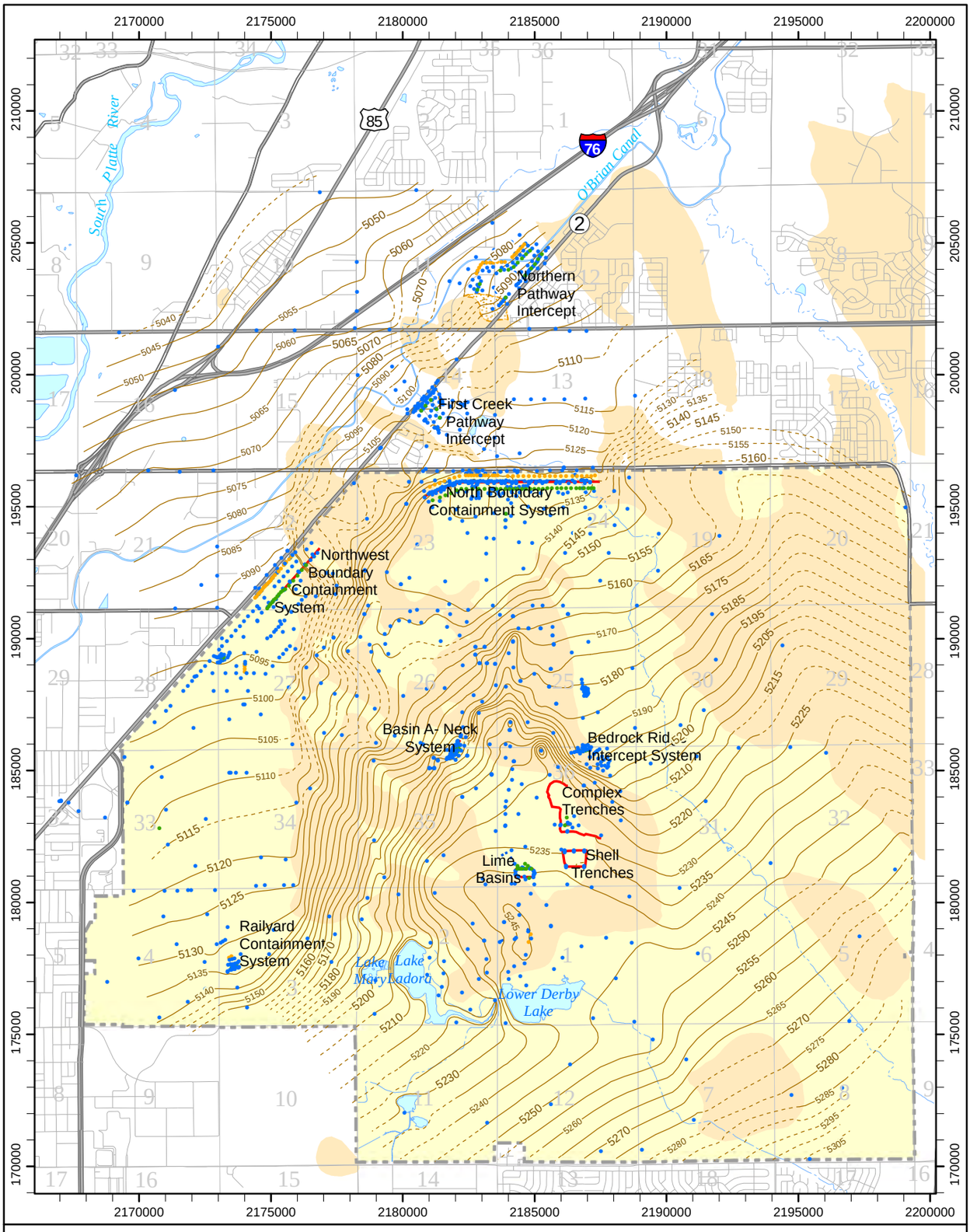

Site Wide Groundwater Level Contour Map for Fiscal Year 2013

Legend

- Rocky Mountain Arsenal (On-Post Operable Unit)
- 2013 Dry Alluvium
- Low Permeability Alluvial Sediments
- Section Lines
- Offpost Primary Roads
- Offpost Secondary Roads
- Offpost Light Duty Roads
- Slurry Wall
- Trench
- Lakes, Ponds, Rivers
- Intermittent Streams
- Ditches and Canals
- Water Level Contour - 2013
- Approximate Water Level Contour - 2013
- Monitoring Wells Used For Contouring
- Extraction Wells
- Recharge Wells

N

0 2,000 4,000 6,000

Feet

NAD27-NGVD29 Datum, US Survey Feet, Colorado North Zone

Sources: U.S. Army, RMA GIS, PMC, OMC, Shell/URS Corp.

Figure 5.1.3-5

Army/Shell GIS

9/19/2016 RMITS

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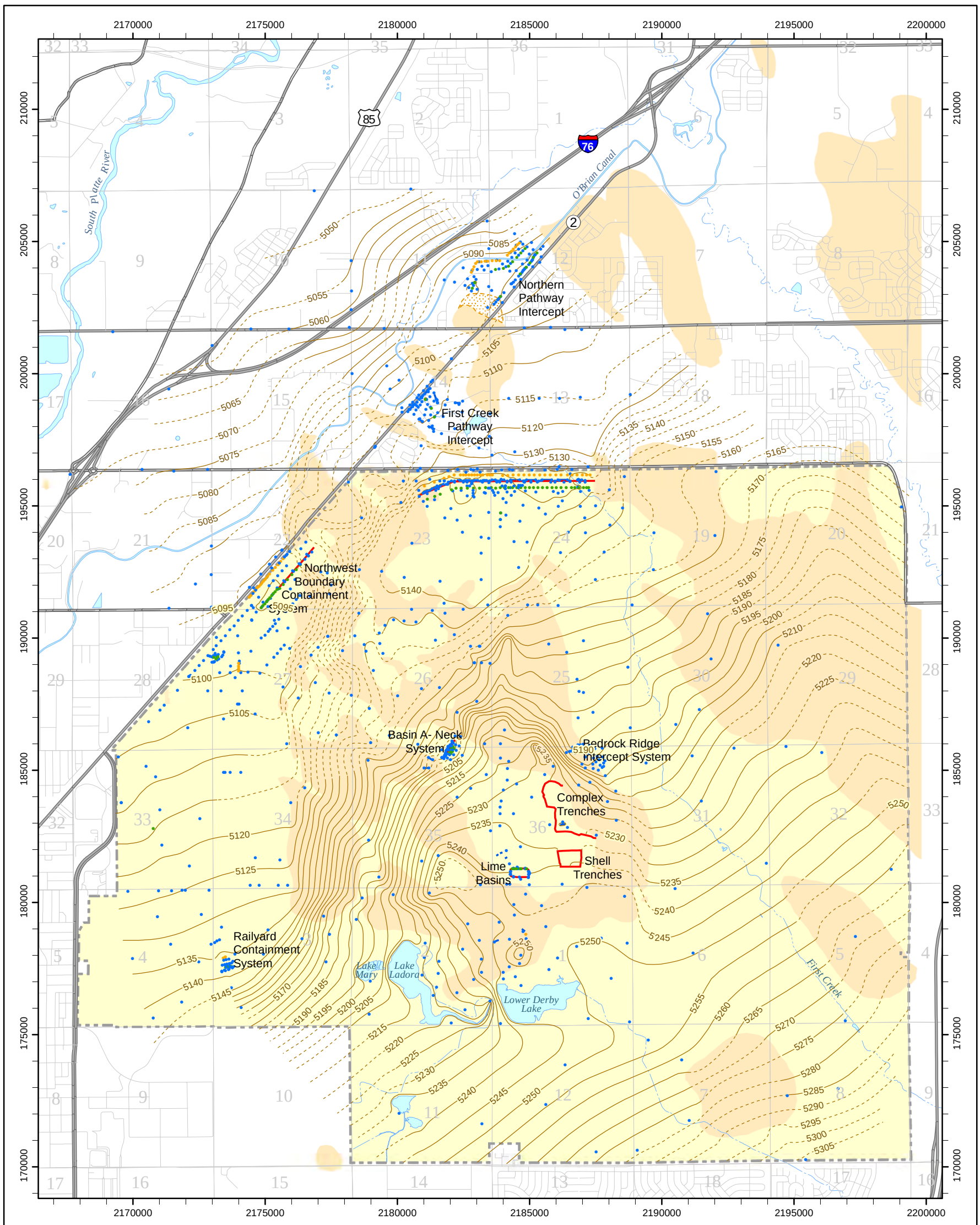

Site Wide Groundwater Level Contour Map for Fiscal Year 2014

Legend

- Rocky Mountain Arsenal (On-Post Operable Unit)
- 2014 Dry Alluvium
- Low Permeability Alluvial Sediments
- Section Lines
- Offpost Primary Roads
- Offpost Secondary Roads
- Offpost Light Duty Roads
- Slurry Wall
- Trench
- Lakes, Ponds, Rivers
- Intermittent Streams
- Ditches and Canals
- Water Elevation Contour Water elevations collected 2014
- Approximate Water Elevation Contour
- Monitoring Wells Used For Contouring
- Extraction Wells
- Recharge Wells

N

0 2,000 4,000 6,000
Feet

NAD27-NGVD29 Datum, US Survey Feet, Colorado North Zone

Sources: U.S. Army, RMA GIS, PMC, OMC, Shell/URS Corp.

Figure 5.1.3-6

Army/Shell GIS

9/9/2016 RMITS

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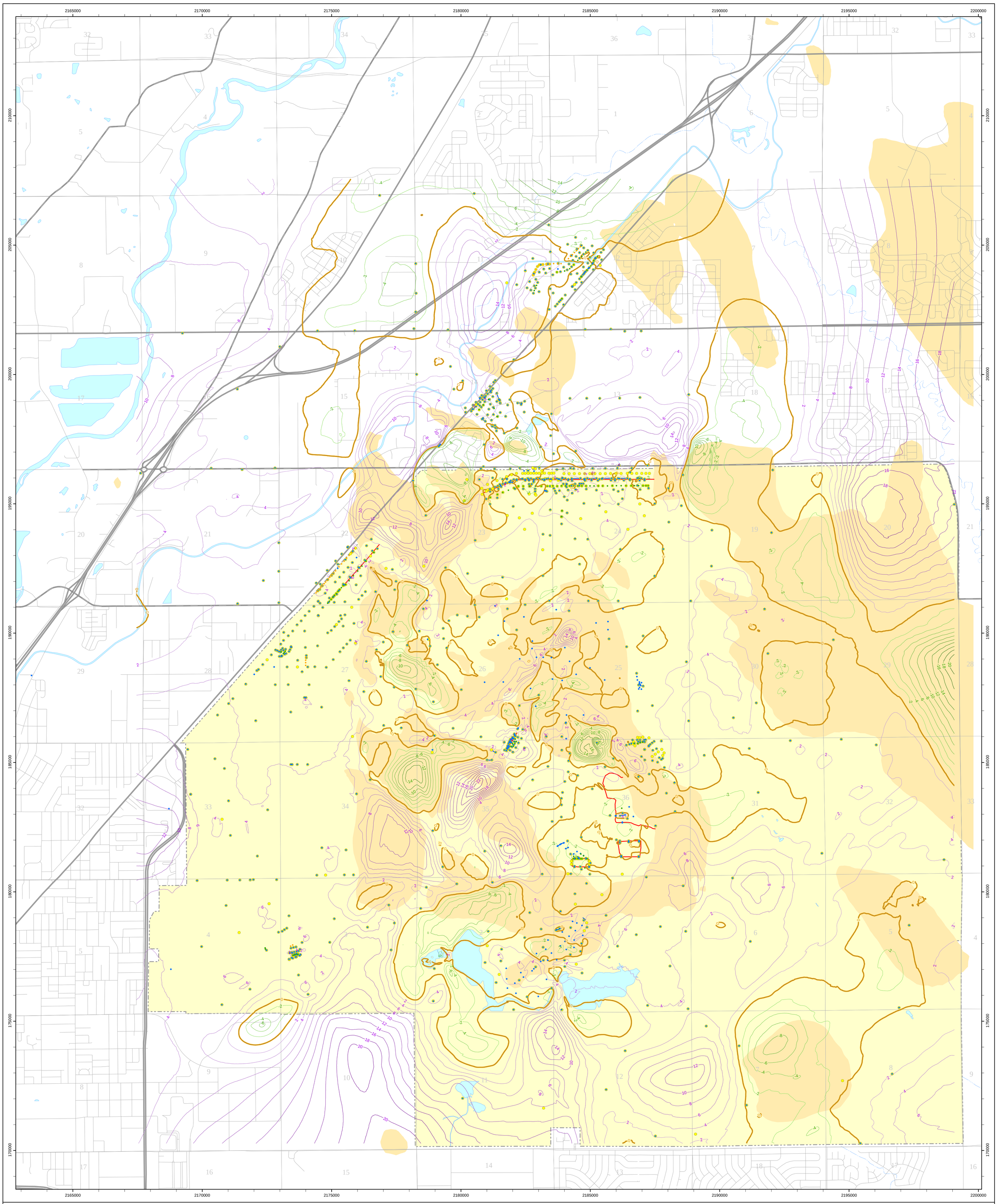

Groundwater Level Differences Fiscal Years 2009 & 2014

(2009 water elevations were subtracted from 2014 water elevations)

Legend

- Rocky Mountain Arsenal (On-Post Operable Unit)
- 2014 Dry Alluvium
- Section Lines
- Lakes, Ponds, Rivers
- Offpost Primary Roads
- Offpost Secondary Roads
- Offpost Light Duty Roads
- Intermittent Streams
- Ditches and Canals
- Slurry Wall
- Trench
- Extraction Wells
- Recharge Wells
- 2014 Wells Used For Contouring
- 2009 Wells Used For Contouring

Water Table Elevation Change

- No Change
- Elevation Increase
- Elevation Decrease

N

0 2,000 4,000 6,000
Feet

NAD27-NGVD29 Datum, US Survey Feet, Colorado North Zone

Sources: U.S. Army, RMA GIS, PMC, OMC, Shell/URS Corp.

Figure 5.1.3-7

Army/Shell GIS

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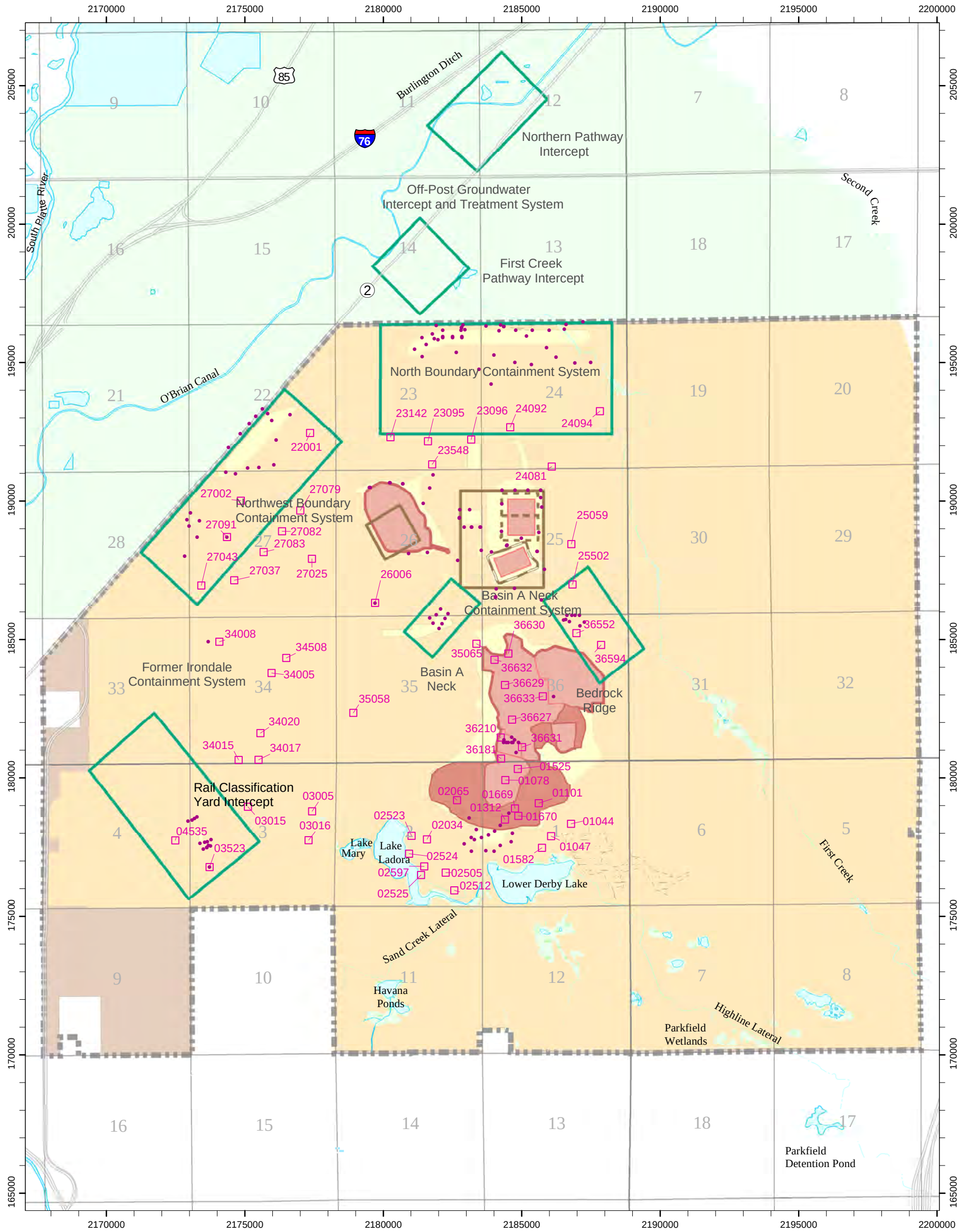

Water Quality Tracking Wells

Legend

- Rocky Mountain Arsenal (On-Post Operable Unit)
- Rocky Mountain Arsenal
- RMA National Wildlife Refuge; USFWS Phase 4
- Western Tier (Prairie Gateway) and Other Transfer Areas
- Off-Post Study Area-LEGEND
- Caps
- Soil Covers
- Lakes and Ponds
- Dry Lakes/Ponds
- Wetlands
- Operational Areas
- CAMU Boundary
- Hazardous Waste Landfill Cells
- LWTS Basins and Detention Basin
- Enhanced Hazardous Waste Landfill
- Primary Roads
- Intermittent Streams
- Ditches, Canals
- Section Lines
- Township & Range Lines
- Site-Wide Water Quality Tracking Wells
- Water Quality Operational Wells

N

0 1,830 3,660
Feet

NAD27-NGVD29 Datum, US Survey Feet, Colorado North Zone

Sources: U.S. Army, RMA GIS, PMC, OMC, Shell/URS Corp.

Figure 5.1.3-8

Army/Shell GIS

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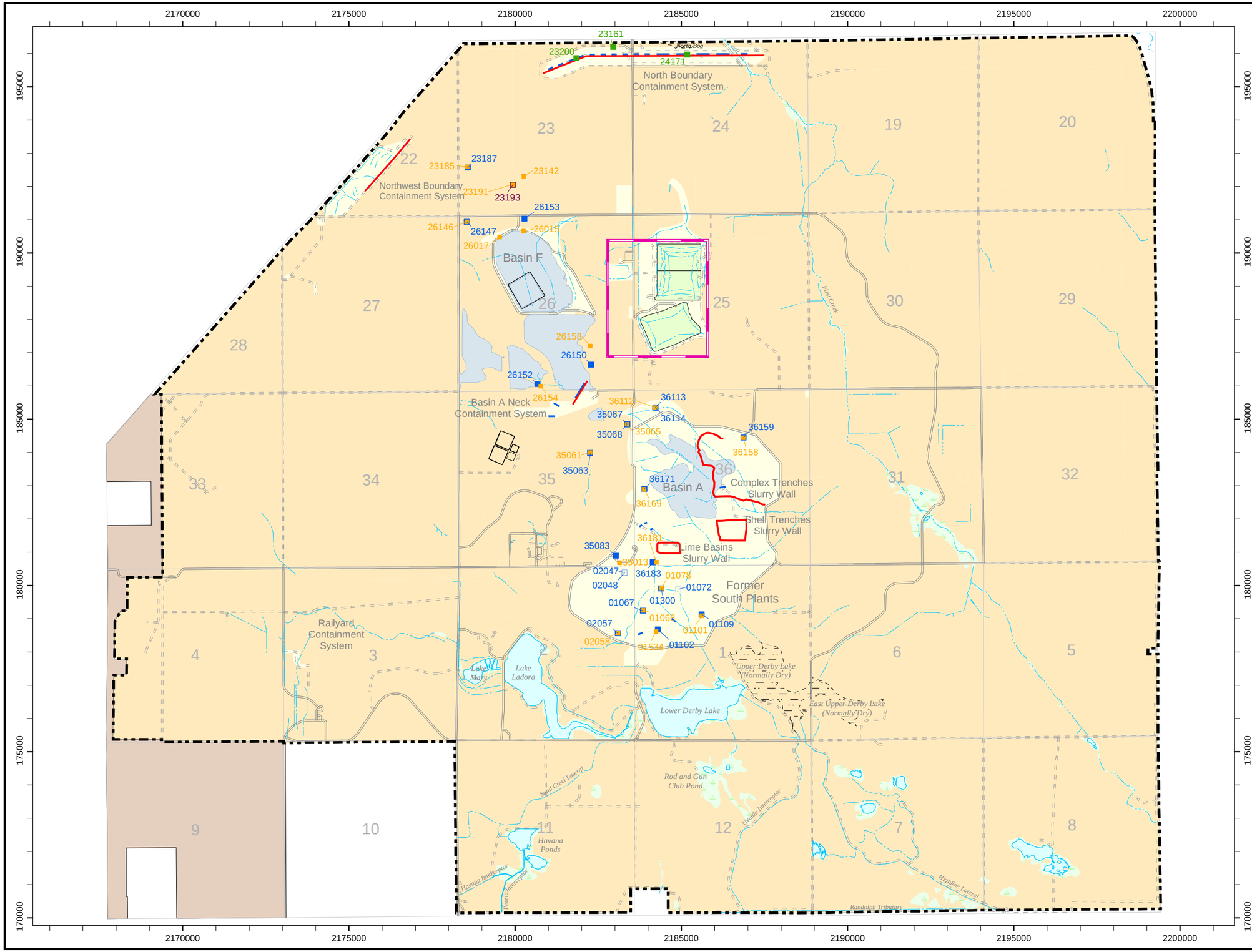

Rocky Mountain Arsenal Confined Flow System Water Quality and Water Level Monitoring Wells

Legend

- Rocky Mountain Arsenal
- RMA National Wildlife Refuge
- Western Tier Parcel (Prairie Gateway)
- Hazardous Waste Landfill, Enhanced Hazardous Waste Landfill, and Landfill Wastewater Treatment System
- Detention Basin Area
- CAMU Boundary
- Historic Basins
- Lakes and Ponds
- Dry Lakes/Ponds
- Wetlands
- Section Lines
- Intermittent Streams
- Ditches, Canals
- Paved Roads
- Unpaved Roads
- Slurry Walls
- Recharge Trenches
- NBCS Performance CFS Wells
- Confined Flow System Wells
- Water Levels Only
- Alternate South Plants CFS Wells
- UFS Paired Wells

Figure 5.1.3.2-1

N

0 1,350 2,700
Feet

NAD27-NGVD29 Datum, US Survey Feet, Colorado North Zone

Sources: U.S. Army, RVO GIS, PMC, OMC, Shell/URS Corp.

Army/Shell GIS

9/14/2016 RMITS

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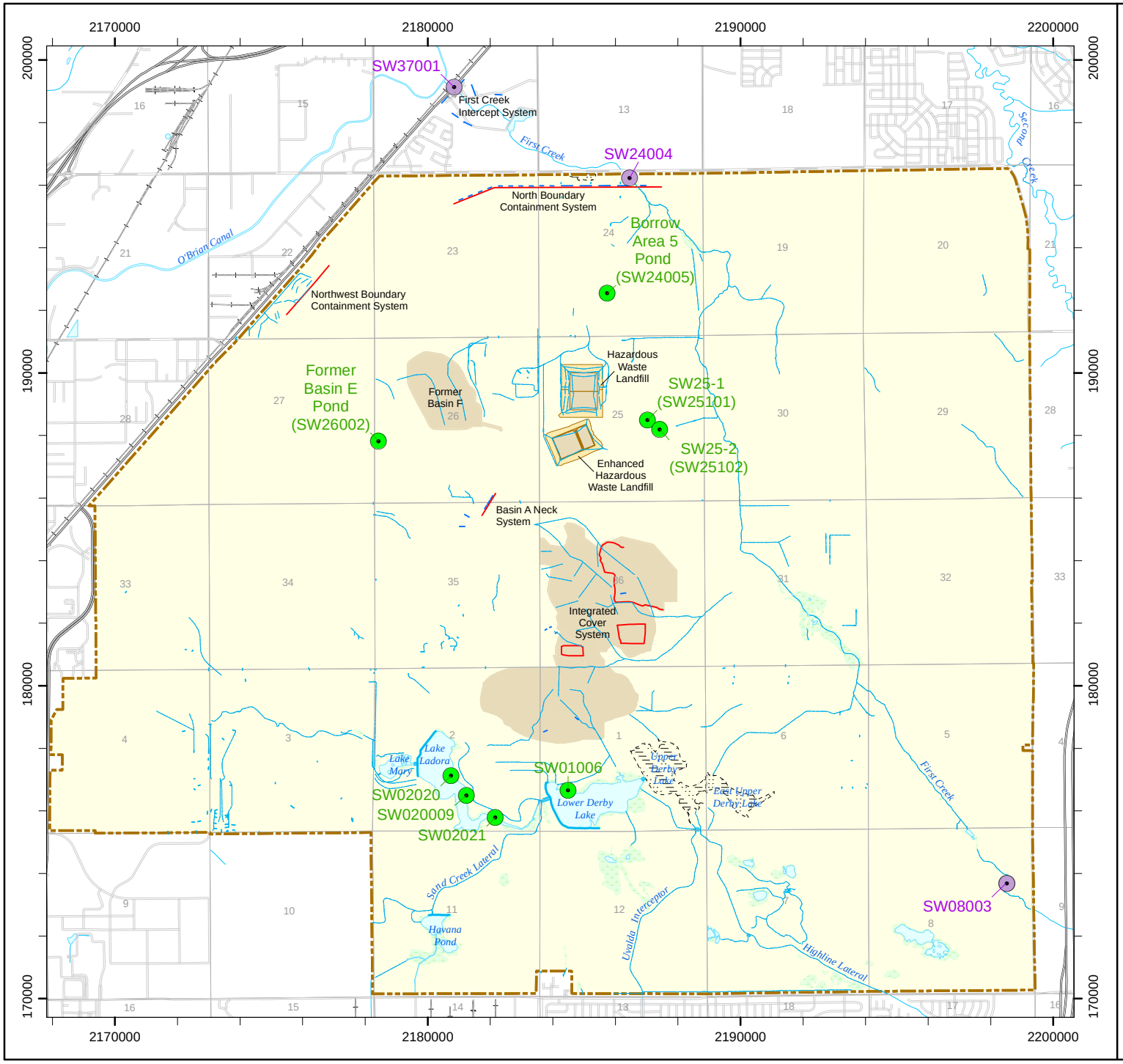

Surface Water Monitoring Locations

Legend

- RMA Boundary
- Soil Caps and Covers
- Lake, Pond, Ditch or Canal
- Wetland, Marsh, Swamp, or Bog
- Dry Lake or Pond
- Intermittent Streams
- Ditch or Spillway
- Culvert
- Dam
- Flume, Siphon, Sluice, or Weir
- Slurry Wall
- Recharge Trench

Surface water Monitoring Locations

- Short-Term Locations
- LTMP Locations

N

0 2,000 4,000 6,000 Feet

NAD27-NGVD29 Datum, US Survey Feet, Colorado North Zone

Sources: U.S. Army, RMA GIS, PMC, OMC, Shell/URS Corp.

Figure 5.1.3.3-1

Army/Shell GIS

9/9/2016 RMITS

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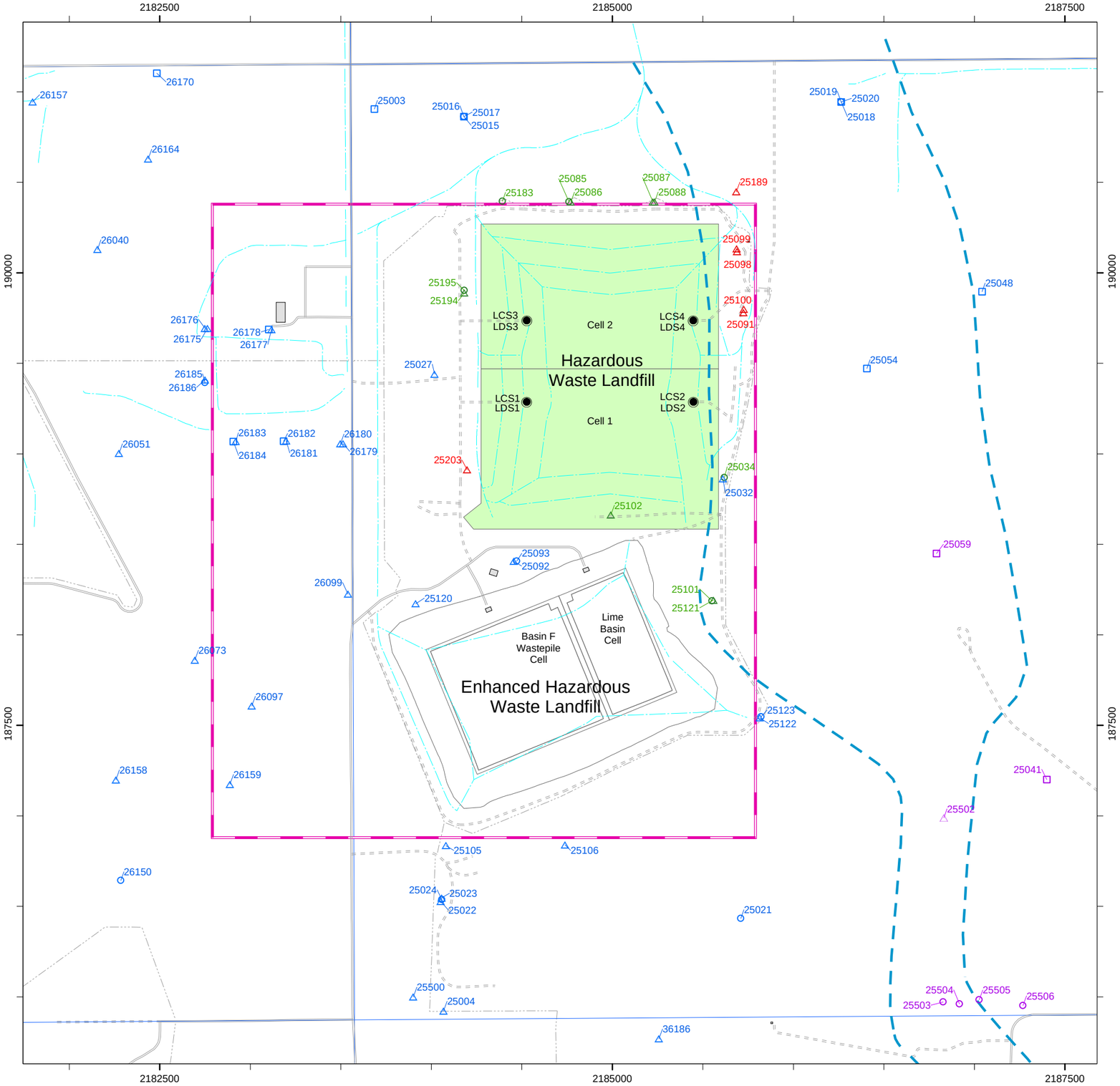

Well / Piezometer / Sump Location Map

HWL Groundwater Monitoring

Legend

- Sumps
- Estimated North Plants/ Bedrock Ridge Plume Extent
- CAMU Boundary
- Buildings
- ELF Cells
- Section Lines
- Light Duty Roads
- Unpaved Roads
- Fences
- Ditches, Canals

Note: This map reflects wells abandoned in April, May and June of 2002 and network designations based on DCN-GWMON-007.

Monitoring Well / Piezometer Network	Flow System / Aquifer		
	Unconfined Alluvial	Unconfined Denver	Confined Denver
Hazardous Waste Landfill		△	○
Supplemental Operational		△	
Long Term Monitoring Plan (LTMP)	□	△	○
Water Level Only	□	△	○

N

0 300 600 1,200

Feet

NAD27-NGVD29 Datum, US Survey Feet, Colorado North Zone

Sources: U.S. Army, RMA GIS, PMC, OMC, Shell/URS Corp.

Figure 5.1.4.1-1

Army/Shell GIS

9/9/2016 RMITS

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