

Former Basin F Well / Piezometer Location Map

Former Basin F Surface Impoundment

Paved Roads

Unpaved Roads

* Well 26015 is used in both Wastepile Water Quality and Principal Threat Water Quality Networks.

Monitoring Well/ Piezometer Network	Flow System / Aquifer				
	Unconfined Alluvial	Unconfined Alluvial/ Denver	Unconfined Denver	Confined Denver	Questionable
Water Level Network					
Other Network Wells					
Basin F Wastepile Water Quality Network					
Basin F Principal Threat Water Quality Network					



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

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

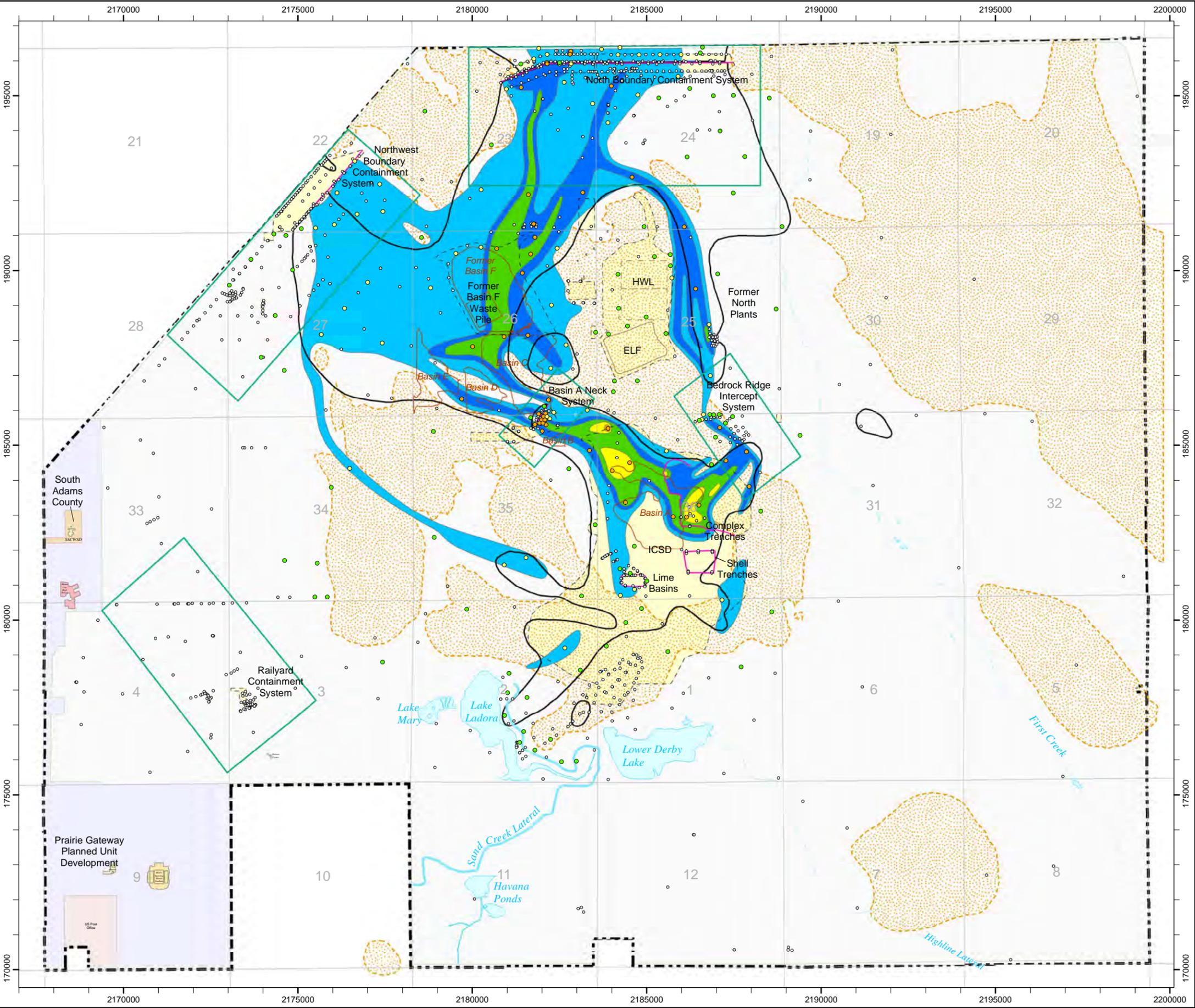
Figure 5.1.4.3-1

Army/Shell GIS

9/9/2016 RMITS

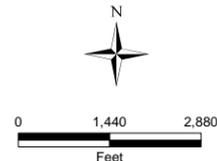
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2014 Diisopropylmethylphosphonate (DIMP) Concentrations in the Unconfined Aquifer



- Legend**
- Open Unconfined Flow System Wells
 - Water Quality Tracking Wells
 - Chemical detected above the CSRG
 - Chemical detected at or below the CSRG
 - Chemical below the MRL
 - U.S. Army Maintained Area
 - USFWS Managed Area
 - Prairie Gateway Planned Unit Development
 - South Adams County
 - U.S. Post Office
 - Section Lines
 - Operational Areas
 - Basins
 - Unsaturated Alluvium (Developed using summer 2014 data)
 - Slurry Walls
 - Recharge Trenches
 - Intermittent Streams
 - Ditches, Canals
 - Sand Creek Lateral
 - 1994 Diisopropylmethylphosphonate (DIMP) Concentration greater than the 1994 MDL of 0.392 µg/L
- 2014 Diisopropylmethylphosphonate (DIMP) Concentrations in µg/L**
- 0.5 to < 8.0
 - 8.0 to < 100
 - 100 to < 1,000
 - 1,000 to < 10,000
 - 10,000 to < 20,000

Figure 5.1.5.1-1



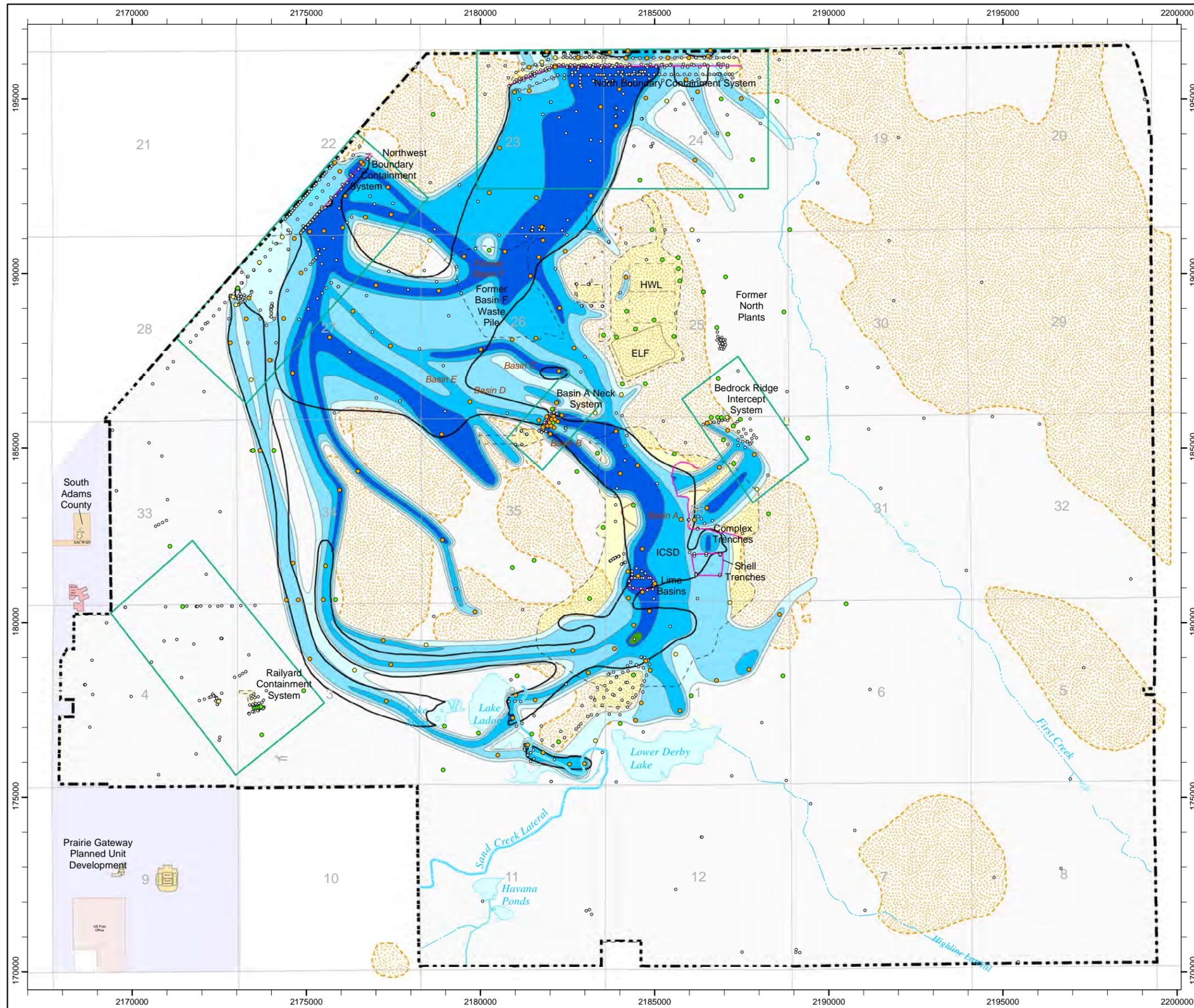
NAD27-NGVD29 Datum, US Survey Feet, Colorado North Zone
 Sources: U.S. Army, RVO GIS, PMC, OMC, Shell/URS Corp.

Army/Shell GIS

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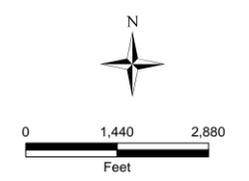
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2014 Dieldrin (DLDRN) Concentrations in the Unconfined Aquifer



- Legend**
- Open Unconfined Flow System Wells
 - Water Quality Tracking Wells
 - Chemical detected above the PQL
 - Chemical detected at or below the PQL
 - Chemical below the MRL
 - U.S. Army Maintained Area
 - USFWS Managed Area
 - Prairie Gateway Planned Unit Development
 - South Adams County
 - U.S. Post Office
 - Section Lines
 - Operational Areas
 - Basins
 - Unsaturated Alluvium (Developed using summer 2014 data)
 - Slurry Walls
 - Recharge Trenches
 - Intermittent Streams
 - Ditches, Canals
 - Sand Creek Lateral
 - 1994 Dieldrin (DLDRN) Concentrations greater than the 1994 MDL of 0.05 µg/L
 - 2014 Dieldrin (DLDRN) Concentrations in µg/L
 - 0.0066 to < 0.013
 - 0.013 to < 0.05
 - 0.05 to < 0.5
 - 0.5 to < 5.0
 - 5.0 to < 21.0

Figure 5.1.5.1-2



NAD27-NGVD29 Datum, US Survey Feet, Colorado North Zone
 Sources: U.S. Army, RVO GIS, PMC, OMC, Shell/URS Corp.

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2014 Chloroform (CHCL3) Concentrations in the Unconfined Aquifer

Legend

- Open Unconfined Flow System Wells
 - Water Quality Tracking Wells
 - Chemical detected above the CSRG
 - Chemical detected at or below the CSRG
 - Chemical below the MDL
 - U.S. Army Maintained Area
 - USFWS Managed Area
 - Prairie Gateway Planned Unit Development
 - South Adams County
 - U.S. Post Office
 - Section Lines
 - Operational Areas
 - Basins
 - Unsaturated Alluvium (Developed using summer 2014 data)
 - Slurry Walls
 - Recharge Trenches
 - Intermittent Streams
 - Ditches, Canals
 - Sand Creek Lateral
 - 1994 Chloroform (CHCL3) Concentration greater than the 1994 MDL of 0.5 µg/L
- 2014 Chloroform (CHCL3) Concentrations in µg/L
- 0.2 to < 6
 - 6 to < 100
 - 100 to < 1,000
 - 1,000 to < 10,000
 - 10,000 to < 100,000
 - 100,000 to < 1,000,000
 - 1,000,000 to ≤ 1,010,000

Figure 5.1.5.1-3



0 1,440 2,880
Feet

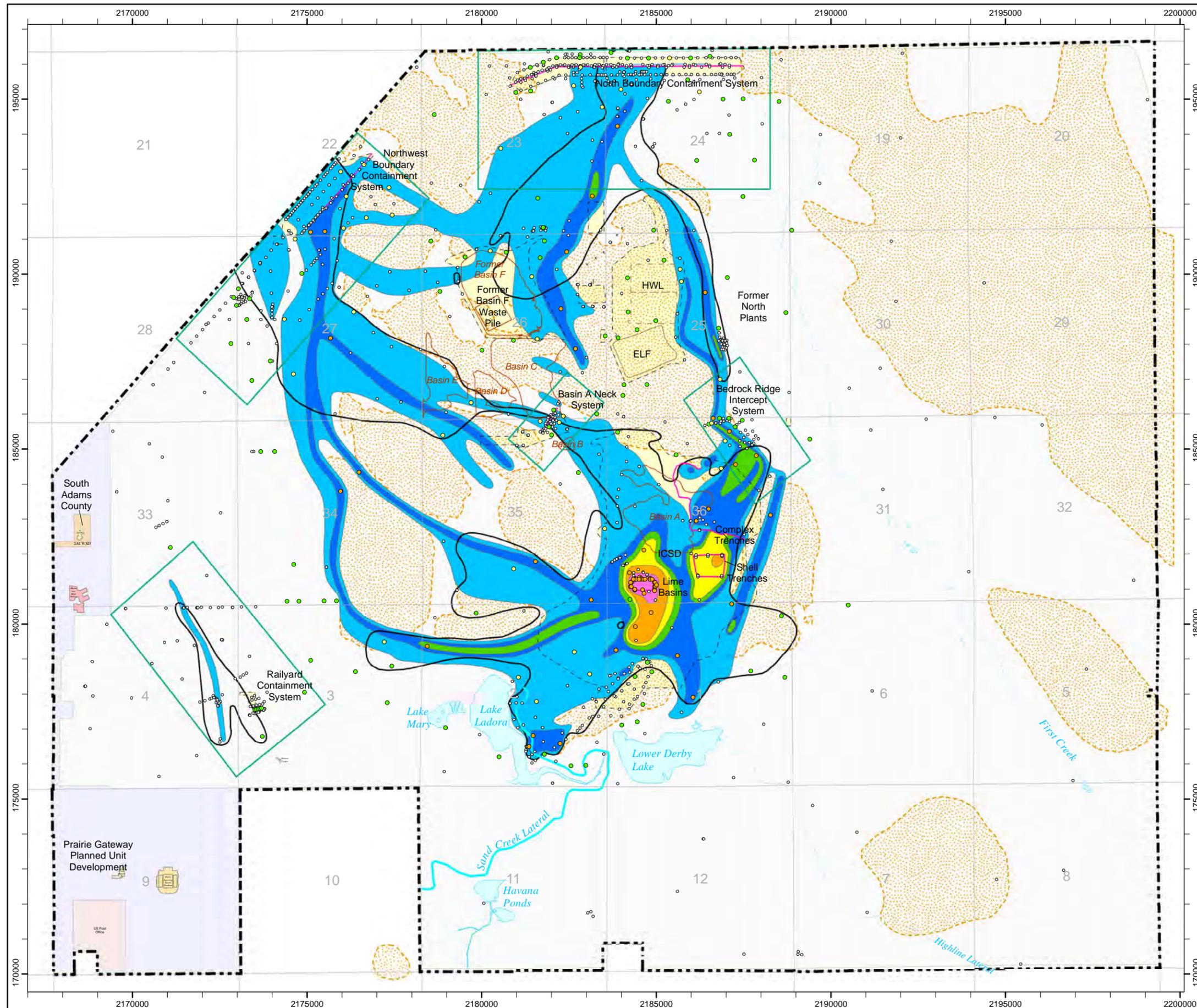
NAD27-NGVD29 Datum, US Survey Feet,
Colorado North Zone

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

Army/Shell GIS

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2014 Benzene (C6H6) Concentrations in the Unconfined Aquifer

Legend

- Open Unconfined Flow System Wells
 - Water Quality Tracking Wells
 - Chemical detected above the CSRG
 - Chemical detected at or below the CSRG
 - Chemical below the MRL
 - U.S. Army Maintained Area
 - USFWS Managed Area
 - Prairie Gateway Planned Unit Development
 - South Adams County
 - U.S. Post Office
 - Section Lines
 - Operational Areas
 - Basins
 - Unsaturated Alluvium (Developed using summer 2014 data)
 - Slurry Walls
 - Recharge Trenches
 - Intermittent Streams
 - Ditches, Canals
 - Sand Creek Lateral
 - 1994 Benzene (C6H6) Concentrations greater than the 1994 MDL of 1.27 µg/L
- 2014 Benzene (C6H6) Concentrations in µg/L
- 0.2 to < 3.0
 - 3.0 to < 100
 - 100 to < 1,000
 - 1,000 to < 10,000
 - 10,000 to < 100,000
 - 100,000 to < 1,000,000
 - 1,000,000 to < 1,500,000

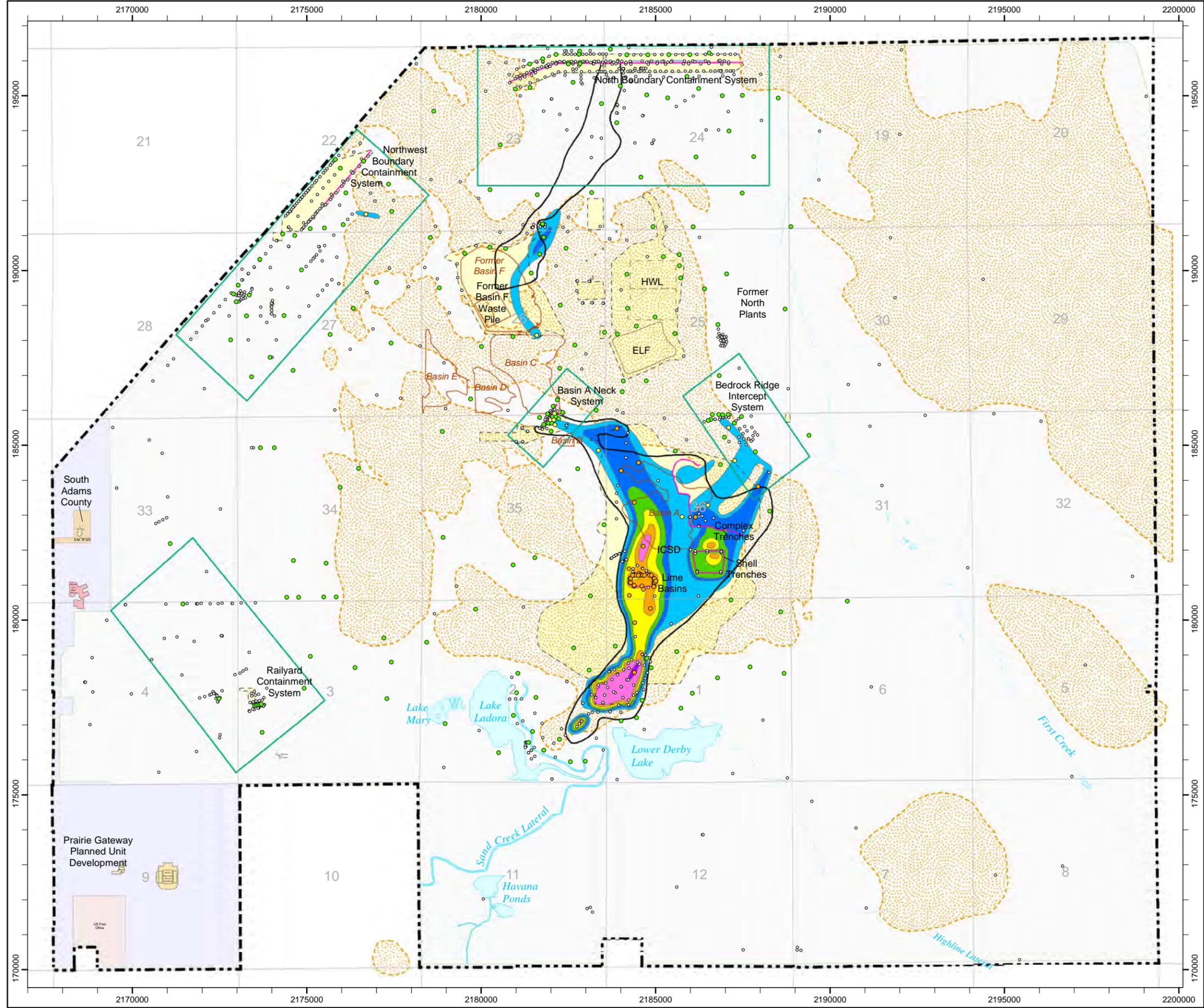
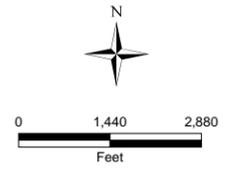


Figure 5.1.5.1-5



NAD27-NGVD29 Datum, US Survey Feet, Colorado North Zone
 Sources: U.S. Army, RVO GIS, PMC, OMC, Shell/URS Corp.

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2014 n-Nitrosodimethylamine (NDMA) Concentrations in the Unconfined Aquifer

Legend

- Open Unconfined Flow System Wells
- Water Quality Tracking Wells
- Chemical detected above the PQL
- Chemical detected at or below the PQL
- Chemical below the MRL
- U.S. Army Maintained Area
- USFWS Managed Area
- Prairie Gateway Planned Unit Development
- South Adams County
- U.S. Post Office
- Section Lines
- Operational Areas
- Basins
- Unsaturated Alluvium (Developed using summer 2014 data)
- Slurry Walls
- Recharge Trenches
- Intermittent Streams
- Ditches, Canals
- Sand Creek Lateral
- 1994 n-Nitrosodimethylamine (NDMA) Concentration greater than the 1994 MDL of 0.5 µg/L
- 2014 n-Nitrosodimethylamine (NDMA) Concentrations in µg/L
- 0.00115 to < 0.018
- 0.018 to < 0.033
- 0.033 to < 0.10
- 0.10 to < 1.0
- 1.0 to < 10

Figure 5.1.5.1-7



0 1,440 2,880
Feet

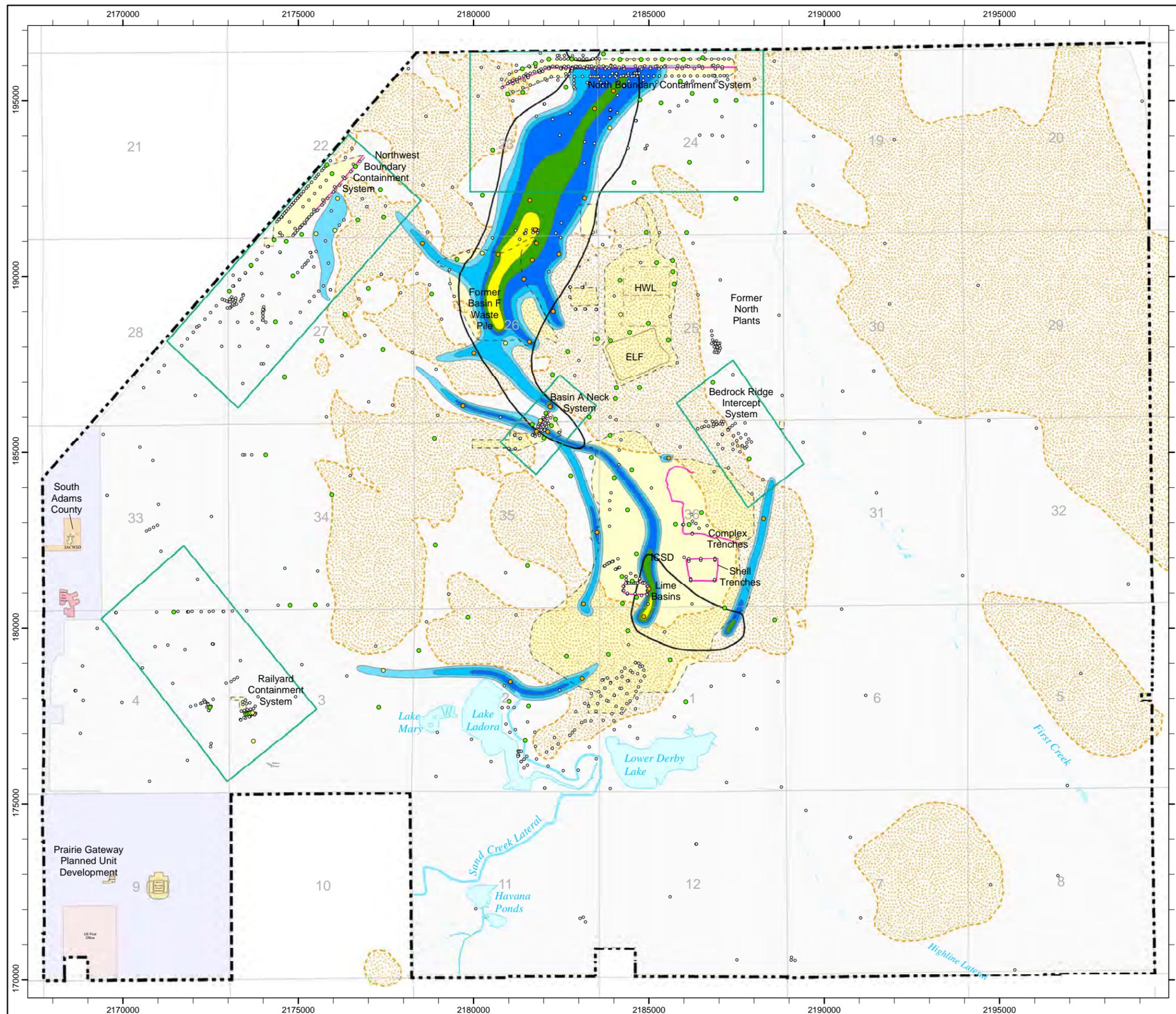
NAD27-NGVD29 Datum, US Survey Feet,
Colorado North Zone

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

Army/Shell GIS

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1994 Carbon Tetrachloride (CCL4) Concentrations in the Unconfined Aquifer

Legend

- Open Unconfined Flow System Wells
 - Water Quality Tracking Wells
 - Chemical detected above the CSRG
 - Chemical detected at or below the CSRG
 - Chemical below the MRL
 - U.S. Army Maintained Area
 - USFWS Managed Area
 - Prairie Gateway Planned Unit Development
 - South Adams County
 - U.S. Post Office
 - Section Lines
 - Operational Areas
 - Basins
 - Unsaturated Alluvium (Developed using summer 2014 data)
 - Slurry Walls
 - Recharge Trenches
 - Intermittent Streams
 - Ditches, Canals
 - Sand Creek Lateral
 - 1994 Carbon Tetrachloride (CCL4) Concentrations greater than the 1994 MDL of 0.263 µg/L
- 1994 Carbon Tetrachloride (CCL4) Concentrations in µg/L
- 0.99 to < 5.0
 - 5.0 to < 50
 - 50 to < 100
 - 100 to < 1,000
 - 1,000 to < 2,000

Figure 5.1.5.1-8



0 1,440 2,880
Feet

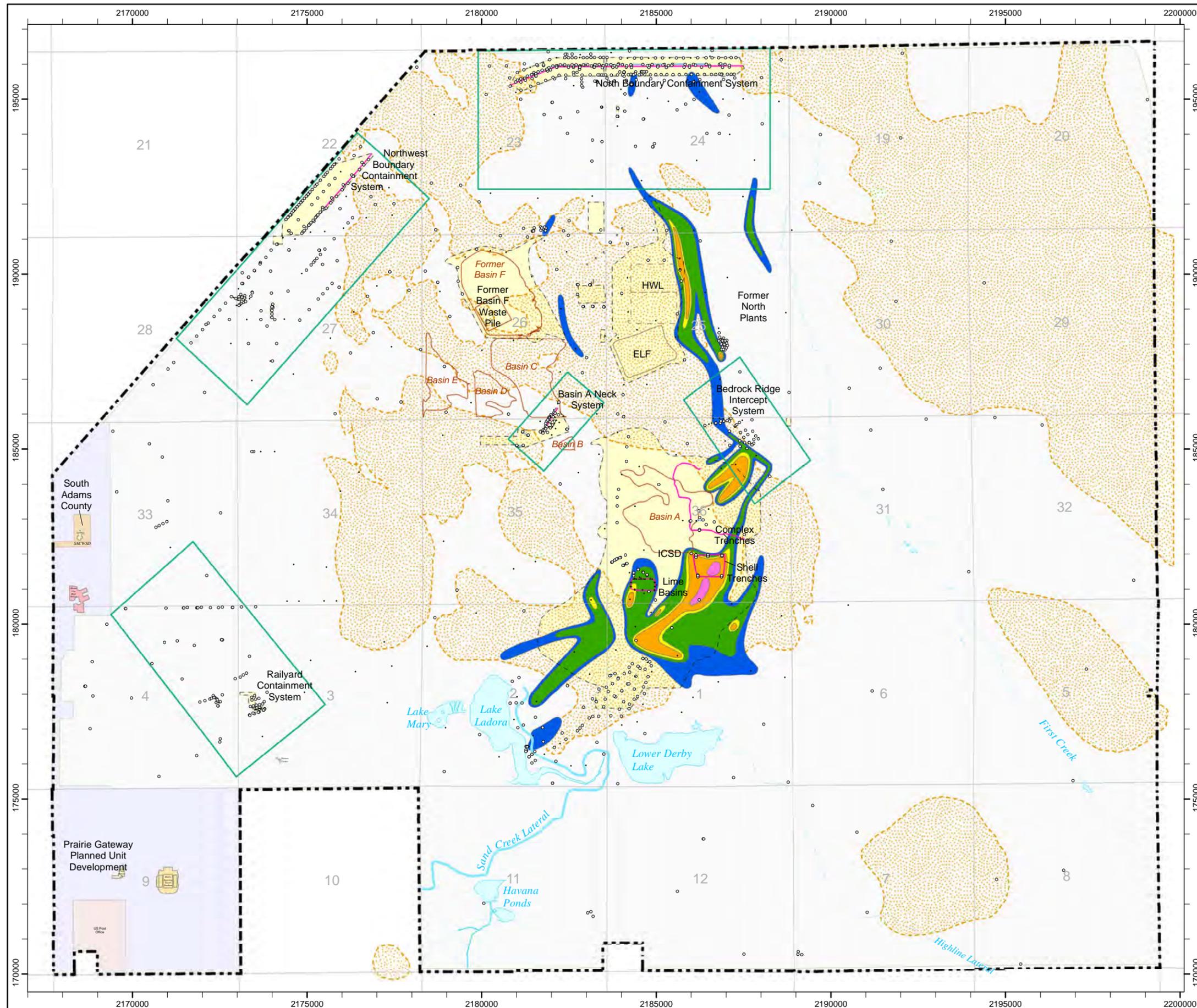
NAD27-NGVD29 Datum, US Survey Feet, Colorado North Zone

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

Army/Shell GIS

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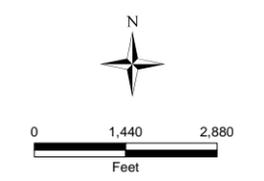


2014 Carbon Tetrachloride (CCL4) Concentrations in the Unconfined Aquifer

Legend

- Open Unconfined Flow System Wells
 - Water Quality Tracking Wells
 - Chemical detected above the CSRG
 - Chemical detected at or below the CSRG
 - Chemical below the MRL
 - U.S. Army Maintained Area
 - USFWS Managed Area
 - Prairie Gateway Planned Unit Development
 - South Adams County
 - U.S. Post Office
 - Section Lines
 - Operational Areas
 - Basins
 - Unsaturated Alluvium (Developed using summer 2014 data)
 - Slurry Walls
 - Recharge Trenches
 - Intermittent Streams
 - Ditches, Canals
 - Sand Creek Lateral
 - 1994 Carbon Tetrachloride (CCL4) Concentrations greater than the 1994 MDL of 0.263 µg/L
- 2014 Carbon Tetrachloride (CCL4) Concentrations in µg/L
- 0.263 to < 5.0
 - 5.0 to < 50
 - 50 to < 100
 - 100 to < 1,000
 - 1,000 to < 2,000

Figure 5.1.5.1-9

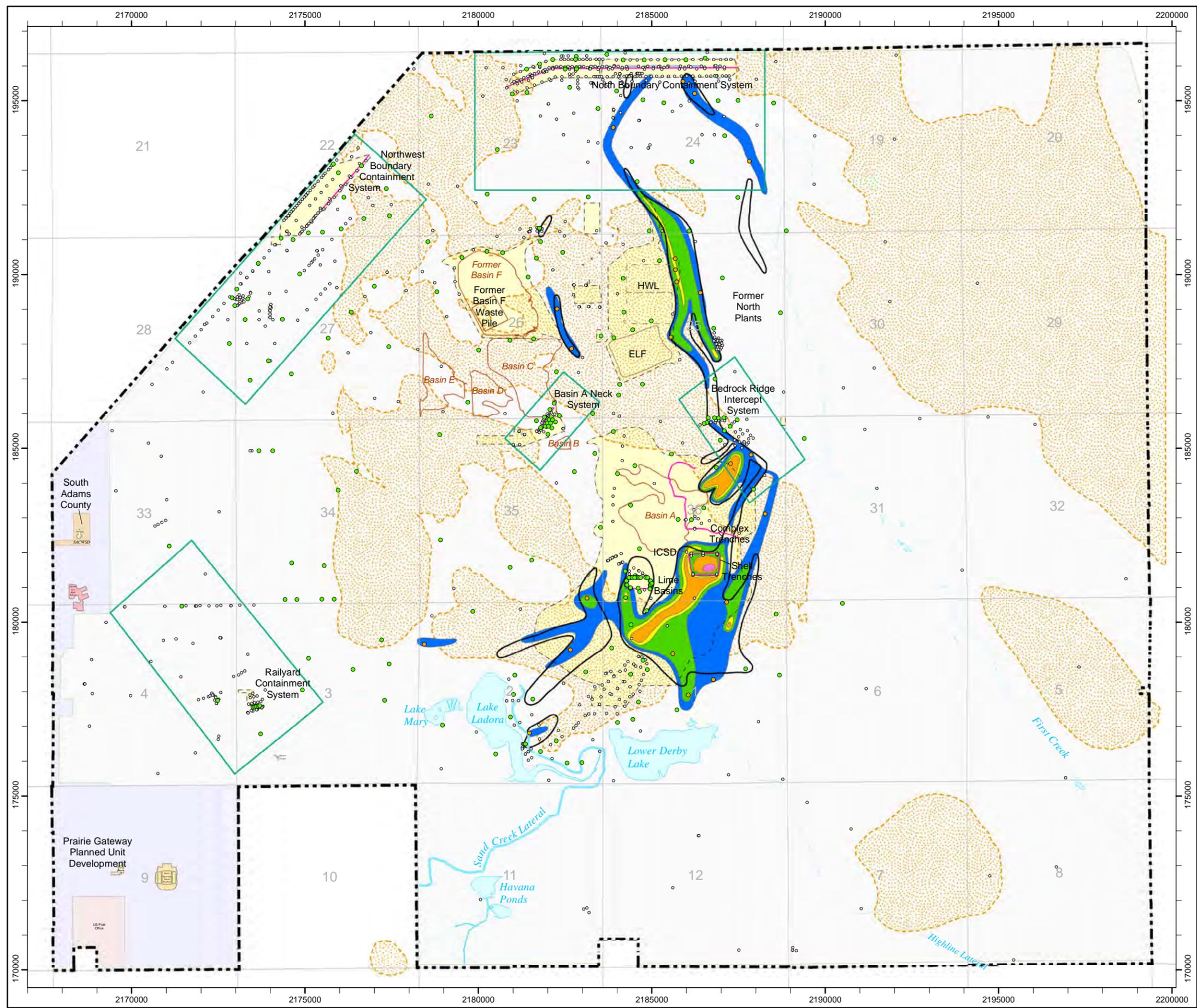


NAD27-NGVD29 Datum, US Survey Feet, Colorado North Zone
 Sources: U.S. Army, RVO GIS, PMC, OMC, Shell/URS Corp.

Army/Shell GIS

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2014 Dithiane (DITH) Concentrations in the Unconfined Aquifer

Legend

- Open Unconfined Flow System Wells
 - Water Quality Tracking Wells
 - Chemical detected above the CSRG
 - Chemical detected at or below the CSRG
 - Chemical below the MRL
 - U.S. Army Maintained Area
 - USFWS Managed Area
 - Prairie Gateway Planned Unit Development
 - South Adams County
 - U.S. Post Office
 - Section Lines
 - Operational Areas
 - Basins
 - Unsaturated Alluvium (Developed using summer 2014 data)
 - Slurry Walls
 - Recharge Trenches
 - Intermittent Streams
 - Ditches, Canals
 - Sand Creek Lateral
 - 1994 Dithiane/Oxathiane (DITH/OXAT) Concentration greater than the 1994 MDL of 1.34 µg/L
- 2014 Dithiane (DITH) Concentrations in µg/L
- 0.4 to < 18
 - 18 to < 100
 - 100 to < 1,000
 - 1,000 to < 5,000

Dithiane has the lowest CSRG of all the organosulphur compounds monitored at RMA; therefore, dithiane results were used to draw the contamination plume on this map.

Figure 5.1.5.1-10



0 1,440 2,880
Feet

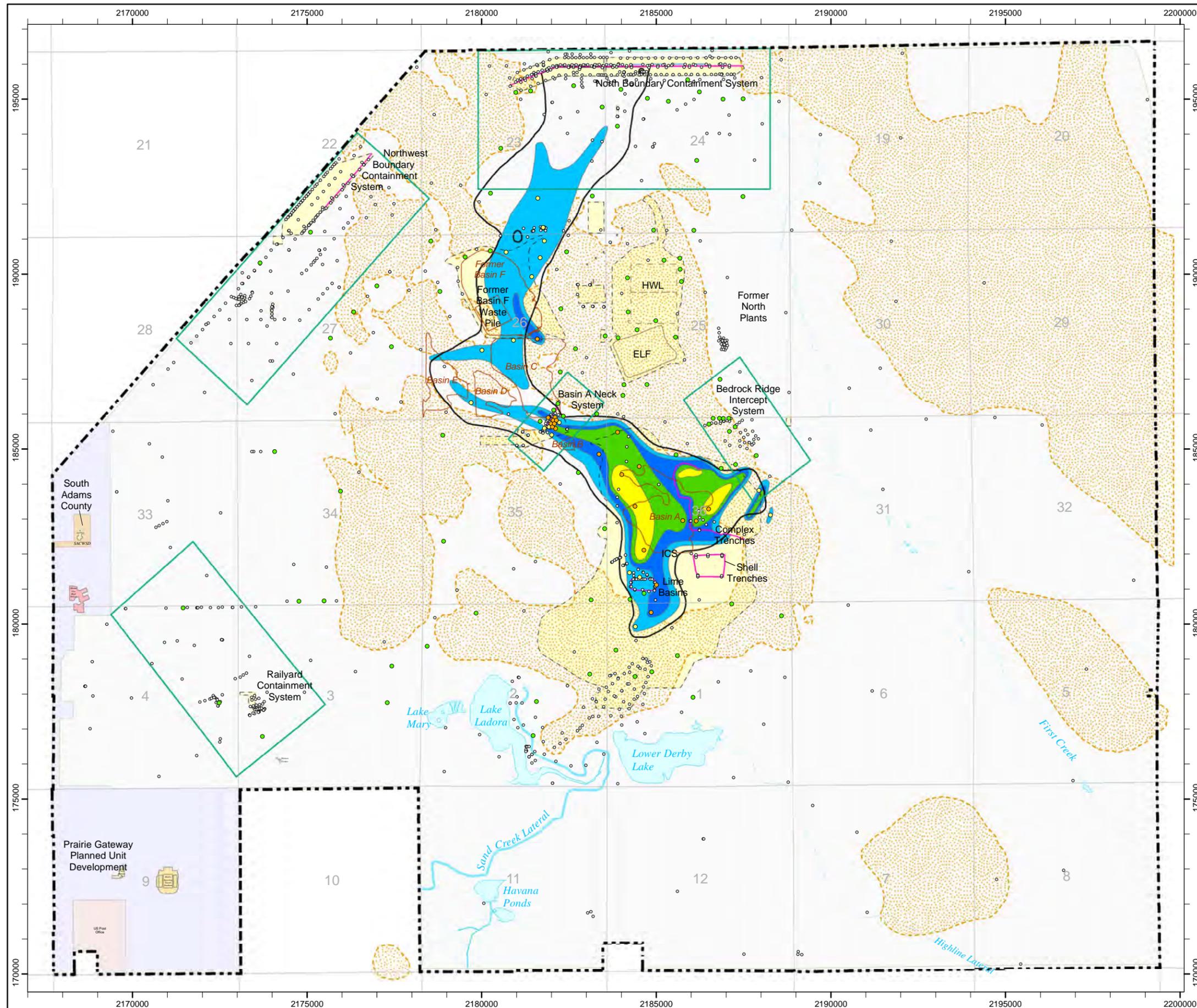
NAD27-NGVD29 Datum, US Survey Feet,
Colorado North Zone

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

Army/Shell GIS

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2014 Arsenic (AS) Concentrations in the Unconfined Aquifer

Legend

- Open Unconfined Flow System Wells
 - Water Quality Tracking Wells
 - Chemical detected above the CSRG
 - Chemical detected at or below the CSRG
 - Chemical below the MRL
 - U.S. Army Maintained Area
 - USFWS Managed Area
 - Prairie Gateway Planned Unit Development
 - South Adams County
 - U.S. Post Office
 - Section Lines
 - Operational Areas
 - Basins
 - Unsaturated Alluvium (Developed using summer 2014 data)
 - Slurry Walls
 - Recharge Trenches
 - Intermittent Streams
 - Ditches, Canals
 - Sand Creek Lateral
 - 1994 Arsenic (AS) Concentrations greater than the 1994 MDL of 2.35 µg/L
- 2014 Arsenic (AS) Concentrations in µg/L
- 1.0 to < 2.35
 - 2.35 to < 10
 - 10 to < 50
 - 50 to < 500
 - 500 to < 5,000
 - 5,000 to < 10,000
 - 10,000 to < 100,000

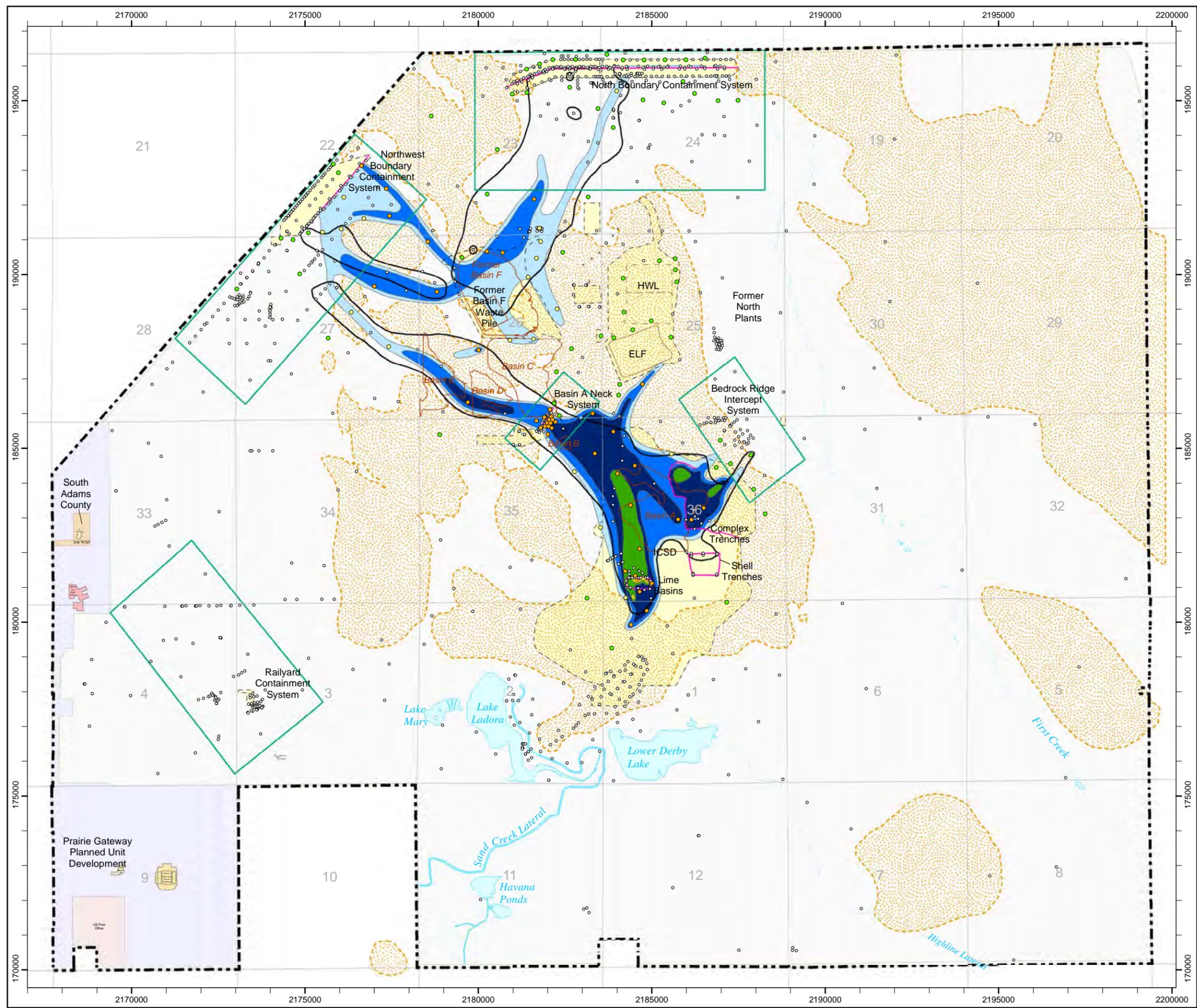
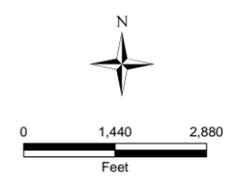


Figure 5.1.5.1-11



NAD27-NGVD29 Datum, US Survey Feet, Colorado North Zone
 Sources: U.S. Army, RVO GIS, PMC, OMC, Shell/URS Corp.

Army/Shell GIS

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