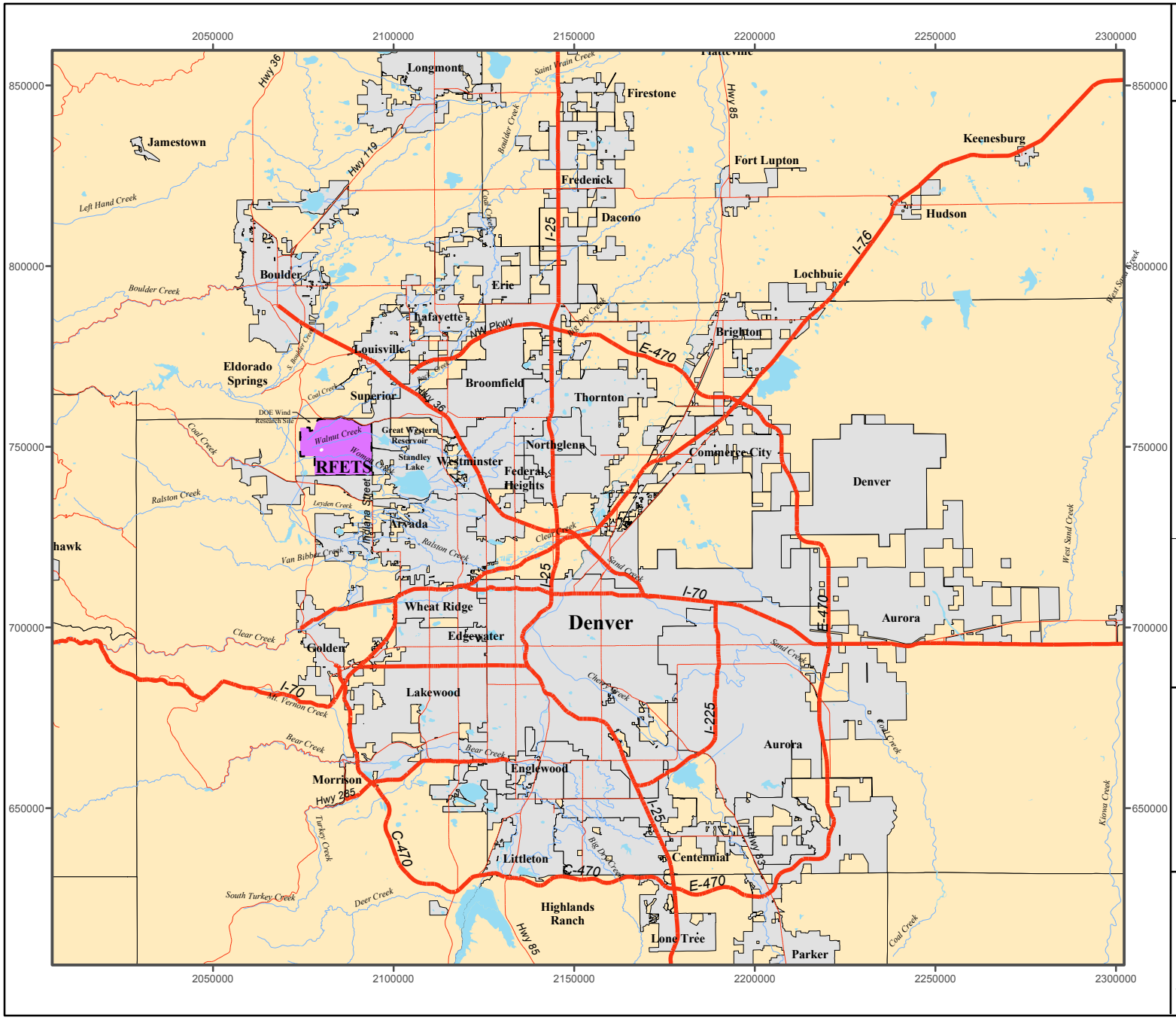
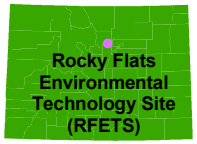


Figure 1
Location of
Rocky Flats Environmental
Technology Site (RFETS)

KEY

- Highway
- Interstate
- Streams
- Lakes and Ponds
- Site Boundary
- City Boundary
- County Boundary



N
W E
S

0 3 6 Miles

Scale 1:480,000

State Plane Coordinate Projection
Colorado Central Zone
Datum: NAD 27

U.S. Department of Energy
Rocky Flats Environmental
Technology Site

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Denver_area_map_RIFS.mxd

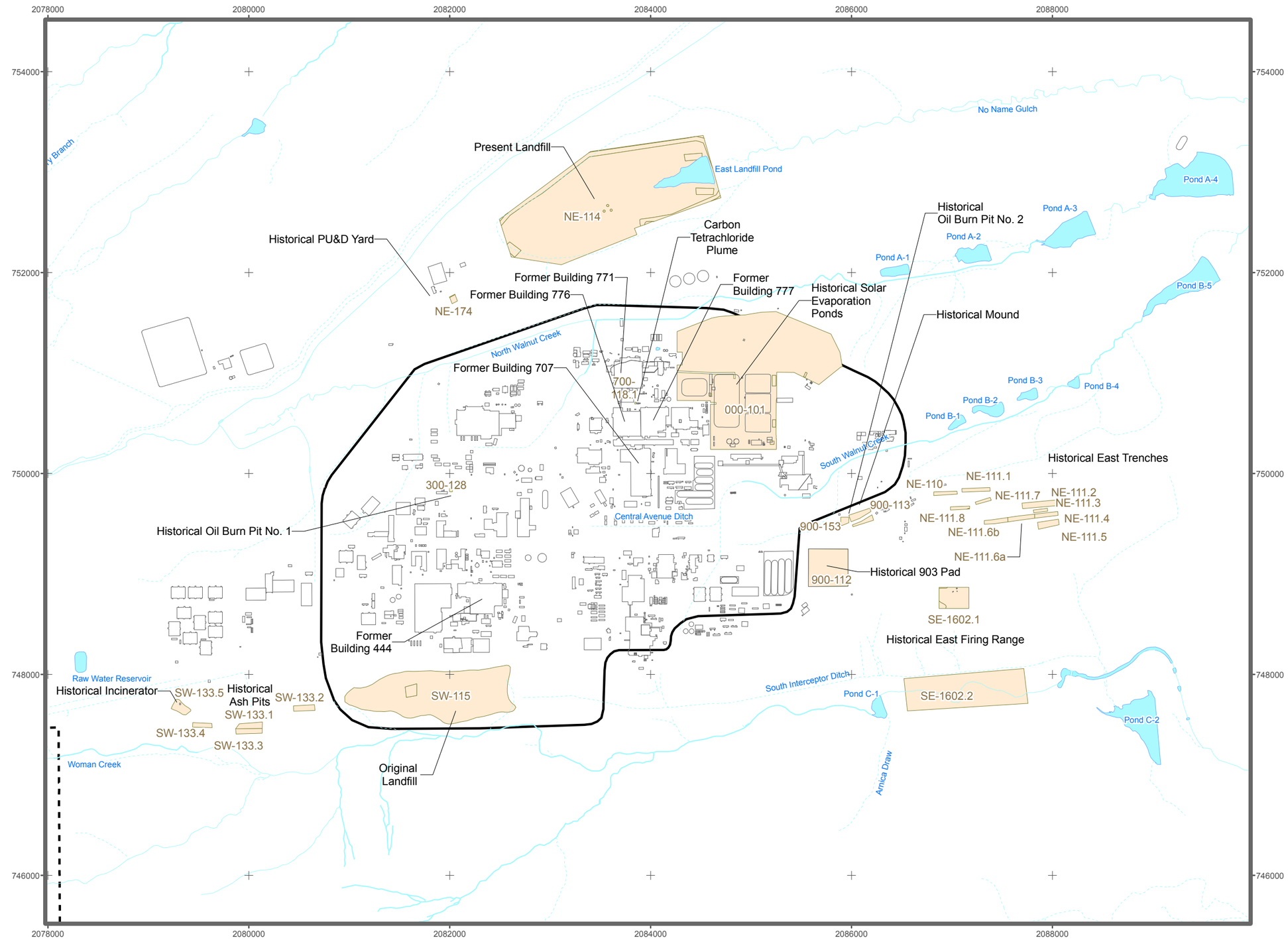

Figure 2

Location of Select Historical IHSSs, PACs, and UBC Sites

KEY

- Removed building or structure
- Select historical IHSS, PAC, or UBC Sites

Standard Map Features

- IA OU boundary
- Pond
- Site boundary
- Perennial stream
- Intermittent stream
- Ephemeral stream

N W E S

0 500 1,000 Feet

Scale 1:12,000

State Plane Coordinate Projection
Colorado Central Zone
Datum: NAD 27

U.S. Department of Energy
Rocky Flats Environmental Technology Site

File: W:\Projects\FY2005\RIFS_Fig\Sec03\ArcMap\Figure_3_01_Historical_Site_Features.mxd

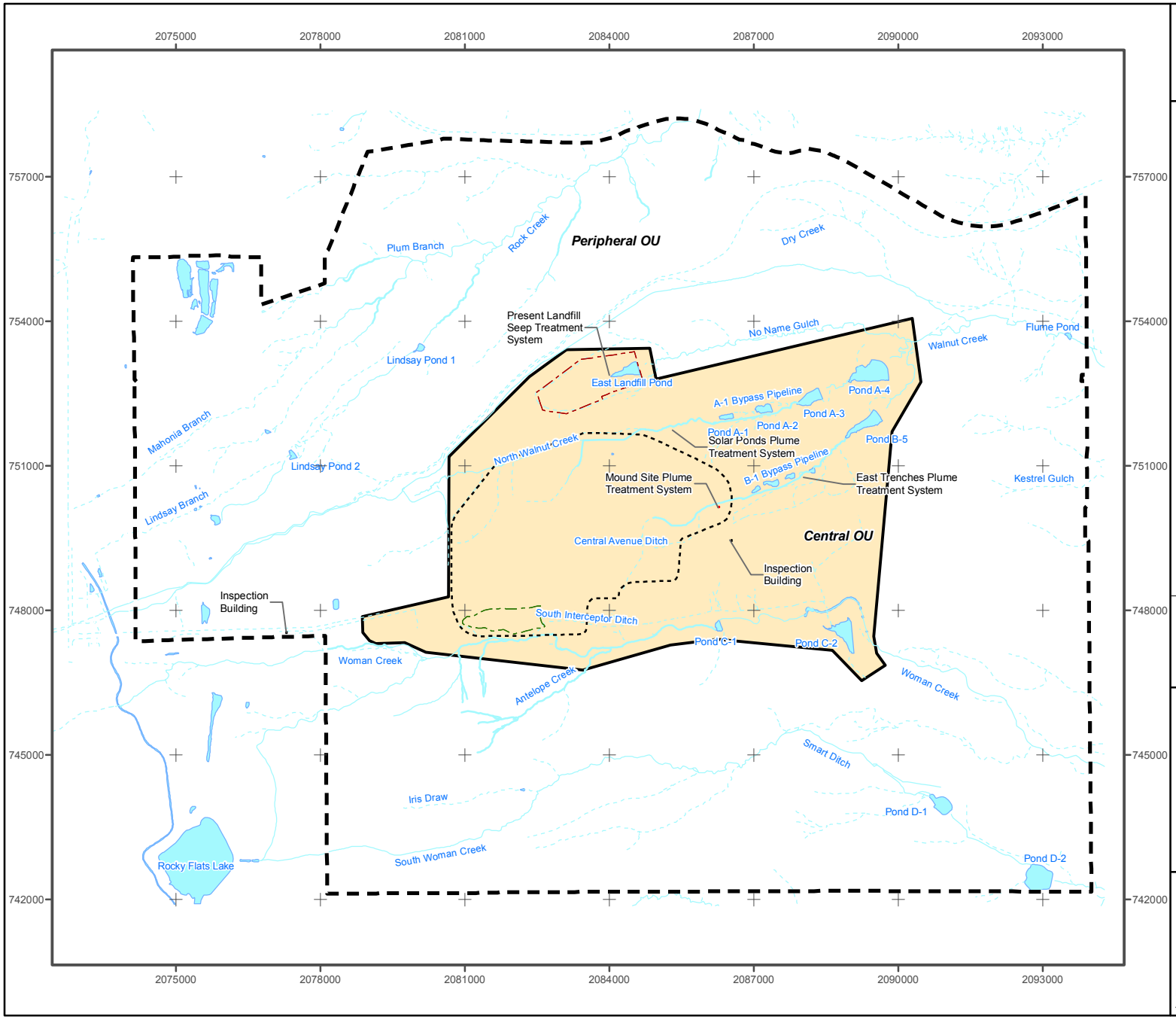

Figure 3

Boundaries of the Peripheral and Central Operable Units

KEY

- Original landfill Individual Hazardous Substance Site boundary
- Present landfill Individual Hazardous Substance Site boundary
- Site boundary
- Historical Industrial Area Operable Unit boundary
- Central Operable Unit boundary

Note:
Institutional controls apply to the entire Central Operable Unit

Standard Map Features

- Pond
- Perennial stream
- Intermittent stream
- Ephemeral stream

N
W E
S

0 1,500 3,000 Feet

Scale 1:36,000

State Plane Coordinate Projection
Colorado Central Zone
Datum: NAD 27

U.S. Department of Energy
Rocky Flats Environmental Technology Site

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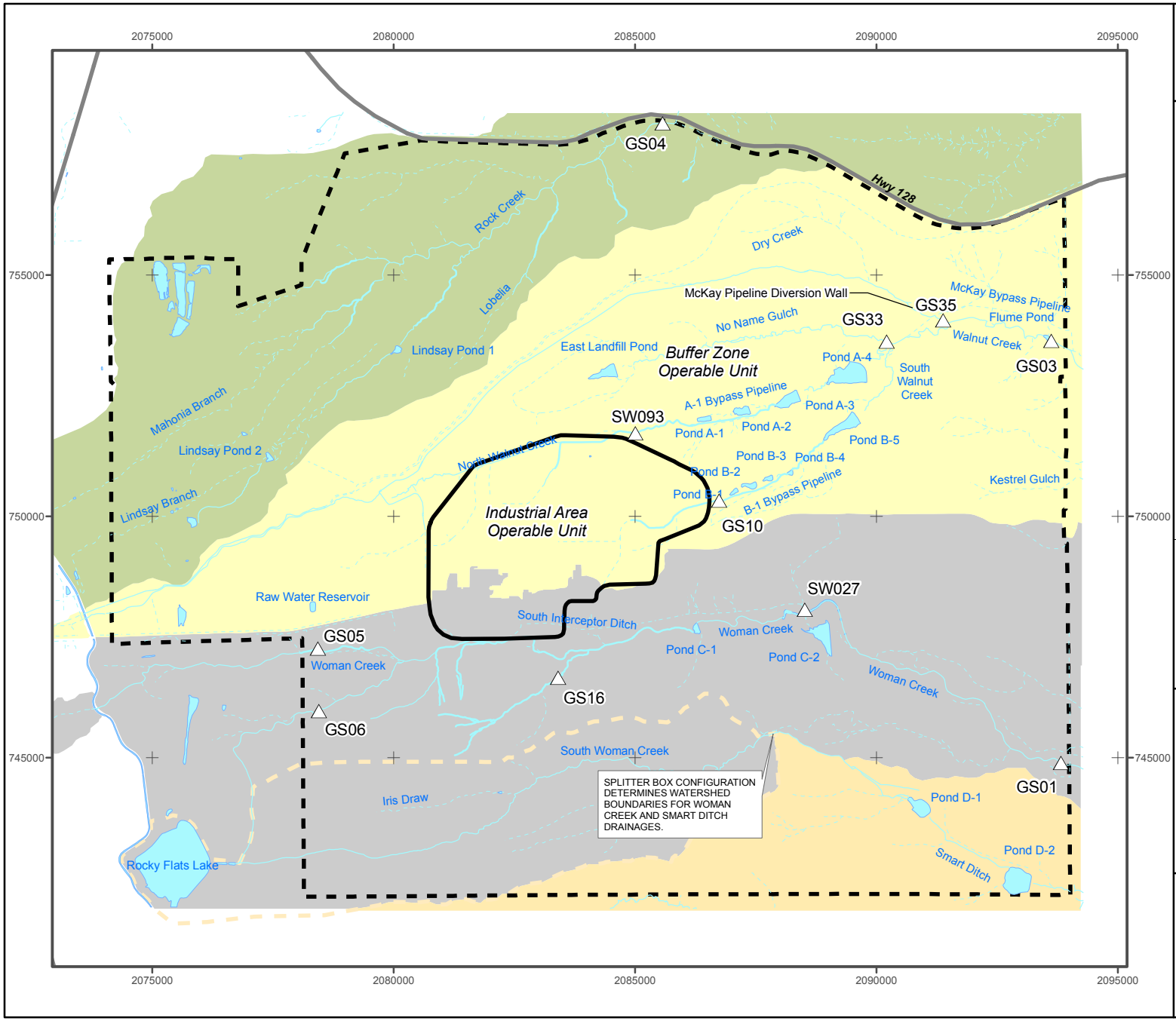

Figure 4

Surface Water Features

KEY

- Gaging station
- Lower Smart Ditch drainage basin
- Rock Creek drainage basin
- Walnut Creek drainage basin
- Woman Creek drainage basin
- Regional road

Standard Map Features

- IA OU boundary
- Pond
- Site boundary
- Perennial stream
- Intermittent stream
- Ephemeral stream

N
W E
S

0 1,500 3,000 Feet

Scale 1:36,000

State Plane Coordinate Projection
Colorado Central Zone
Datum: NAD 27

U.S. Department of Energy
Rocky Flats Environmental
Technology Site

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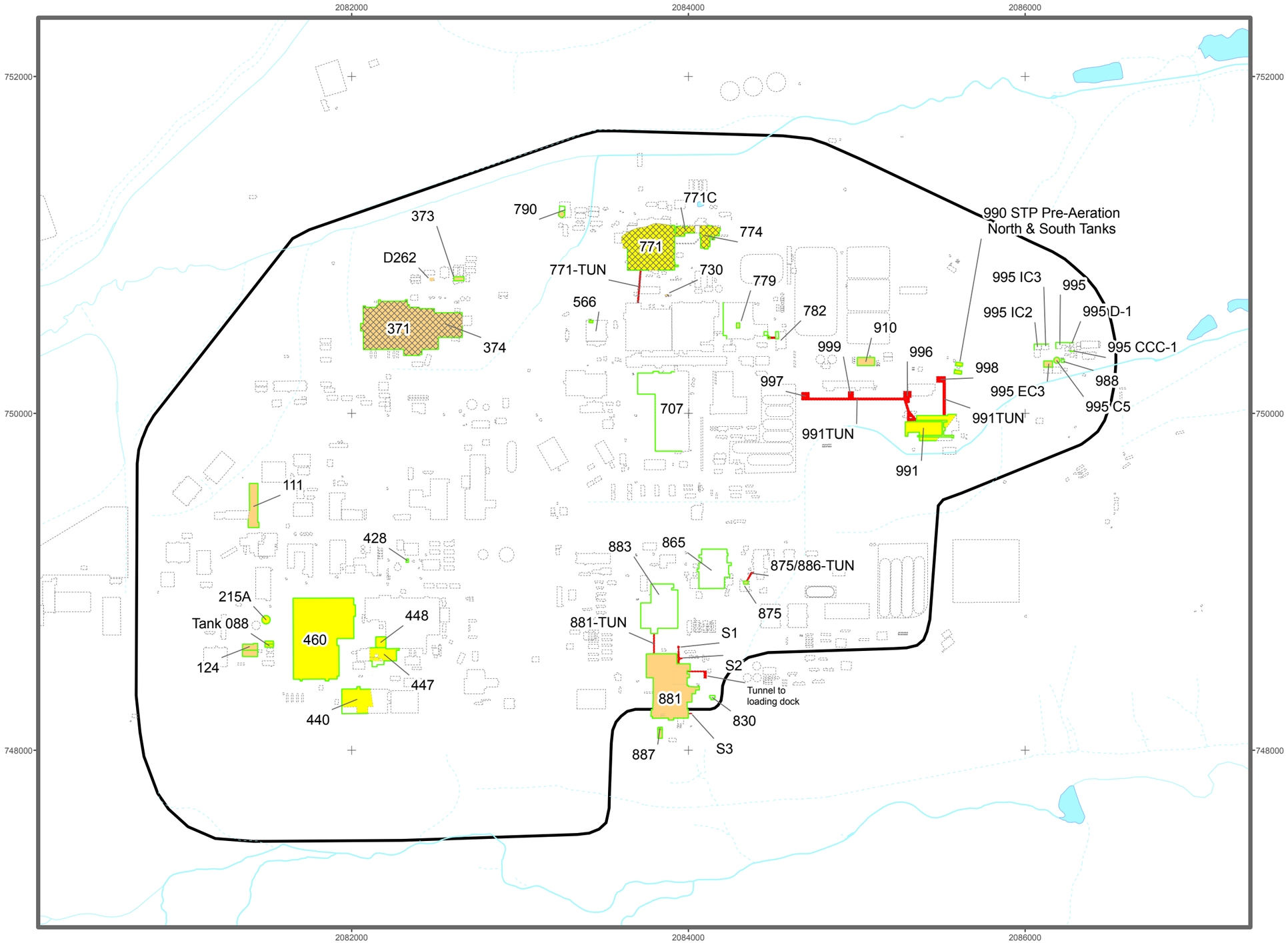

Figure 5

Subsurface Features After Accelerated Actions (Slabs, Building Foundations, and Tunnels)

KEY

- Slab remaining
- Basement slab remaining
- Tunnel Remaining (slab, walls, foundations, ceiling)
- Foundation Remaining (includes caissons and/or grade beams)
- Contaminated below 6 ft
- Removed buildings and structures

Standard Map Features

- IA OU boundary
- Pond
- Site boundary
- Perennial stream
- Intermittent stream
- Ephemeral stream

N W E S

0 300 600 Feet

Scale 1:7,200

State Plane Coordinate Projection
Colorado Central Zone
Datum: NAD 27

U.S. Department of Energy
Rocky Flats Environmental
Technology Site

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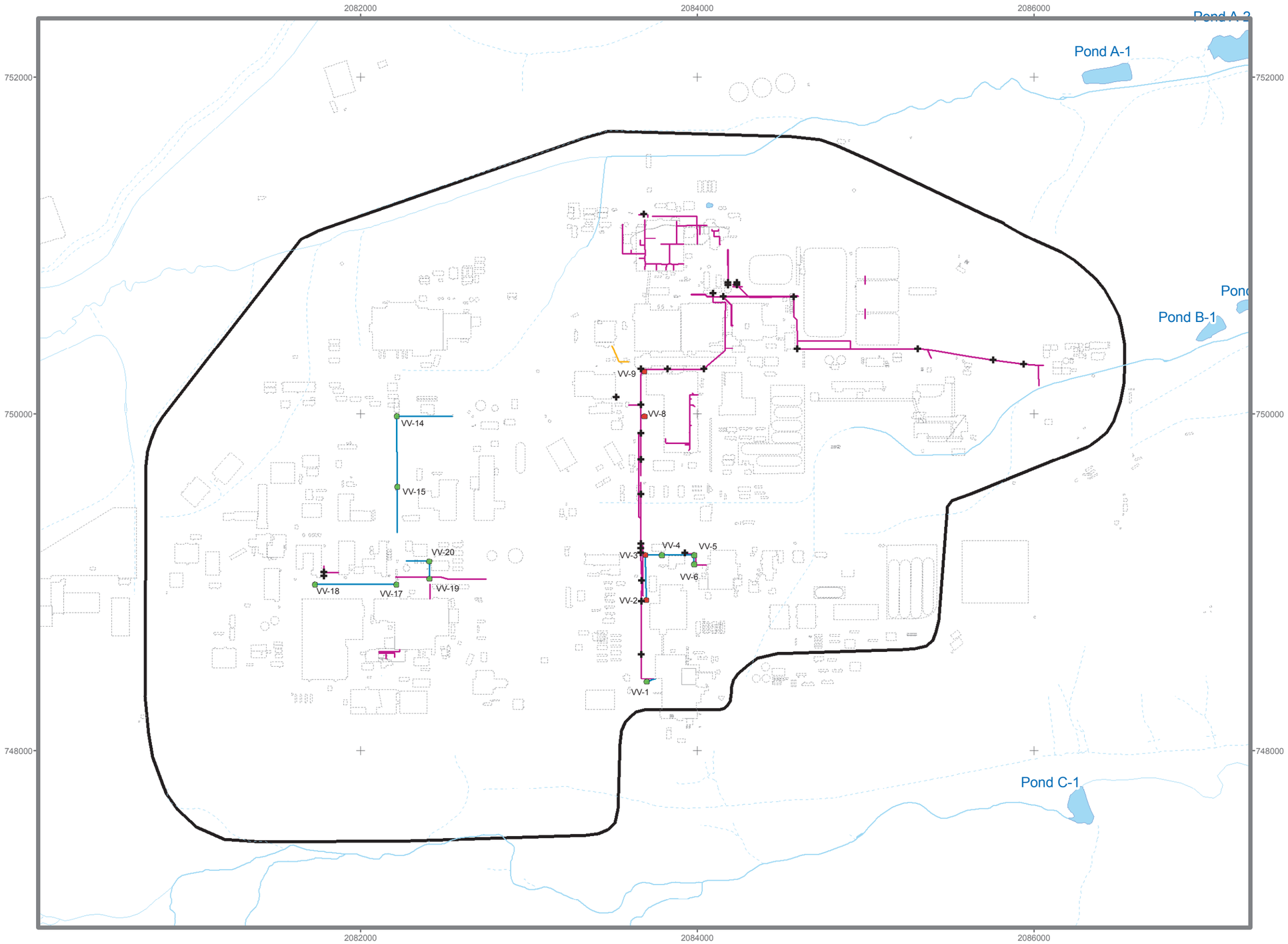

Figure 6

Subsurface Features After Accelerated Actions (Process Waste Lines and Valve Vaults)

KEY

Original Process Waste Lines (OPWL)

- OPWL grouted and left in place
- OPWL manway - removed

New Process Waste Lines (NPWL)

- NPWL grouted and left in place clean closed
- NPWL grouted and left in place not part of RCRA Unit 374.3
- NPWL valve vault (removed to below 6 feet from surface and backfilled; not contaminated)
- NPWL valve vault (removed to below 6 feet from surface and flowfilled/backfilled; radionuclide, contaminated)
- Removed buildings and structures

Standard Map Features

- IA OU boundary
- Pond
- Site boundary
- Perennial stream
- Intermittent stream
- Ephemeral stream

N W E S

0 300 600 Feet

Scale 1:7,200

State Plane Coordinate Projection
Colorado Central Zone
Datum: NAD 27

U.S. Department of Energy
Rocky Flats Environmental Technology Site

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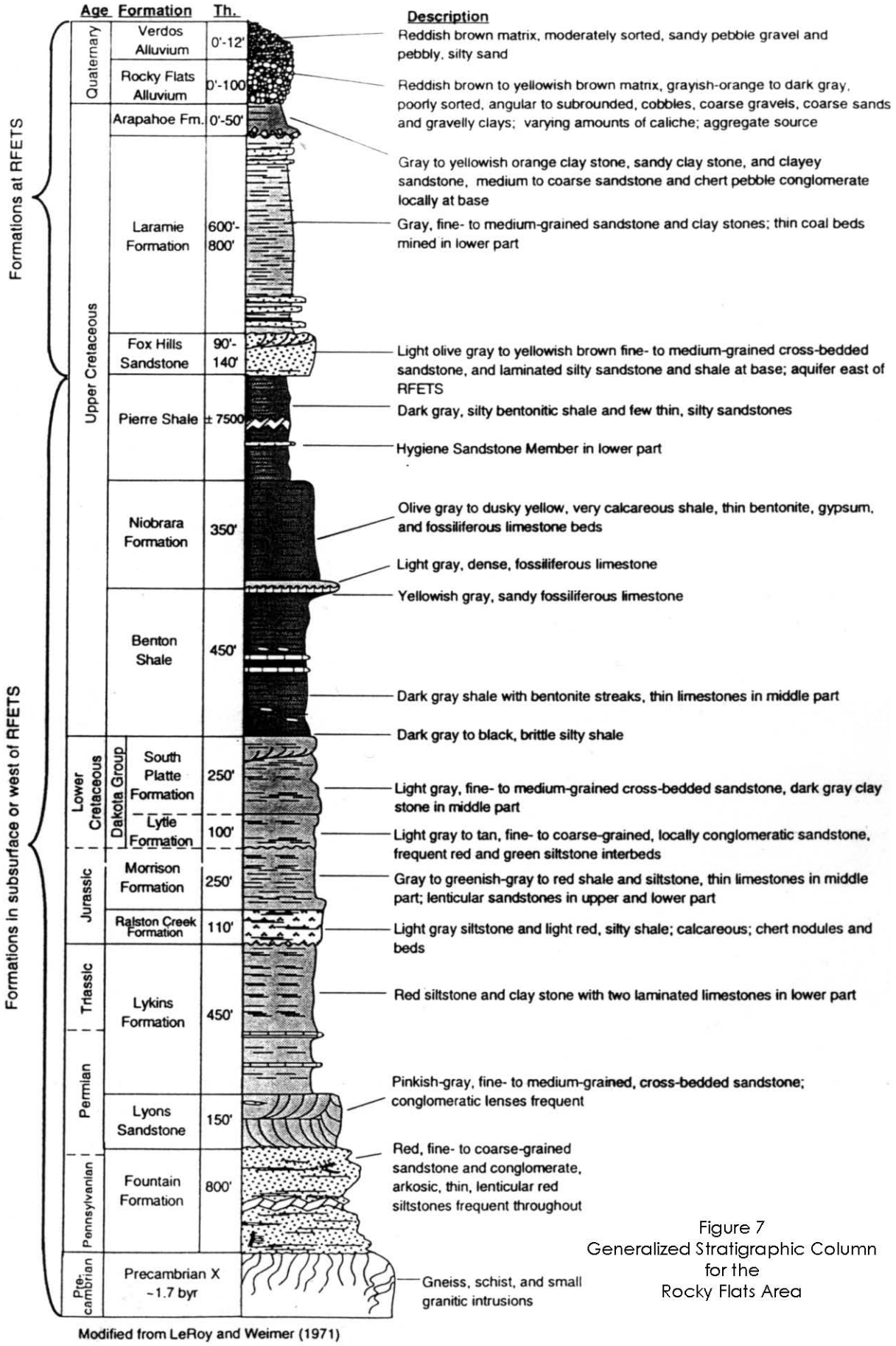

Figure 7
Generalized Stratigraphic Column for the Rocky Flats Area

Modified from LeRoy and Weimer (1971)

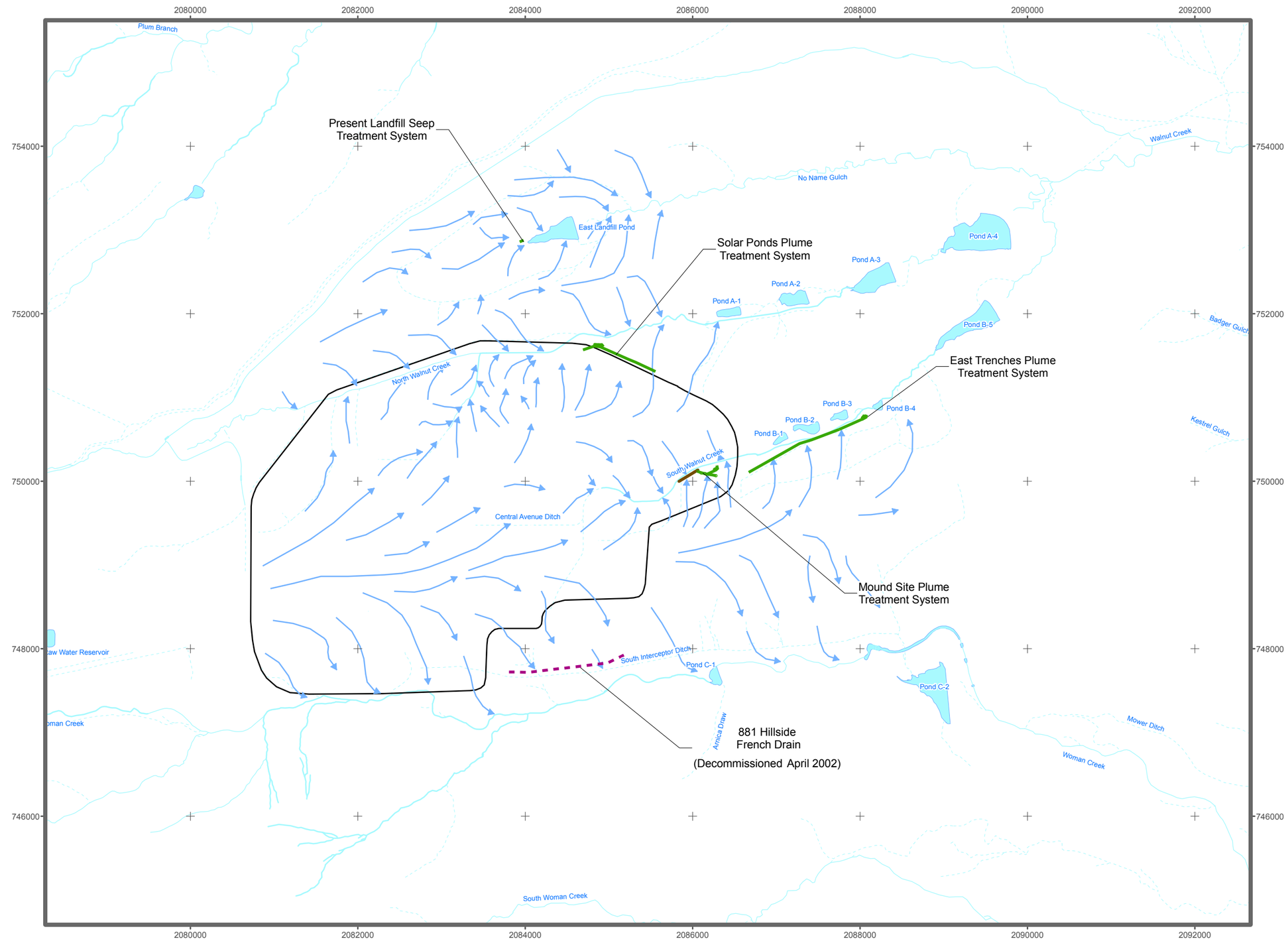

Figure 8

Predicted Groundwater Flow Directions

KEY

- Predicted groundwater flow direction
- Existing groundwater treatment system
- Decommissioned french drain
- Mound french drain
- IA OU boundary

Note:
The length of the arrow does not correspond to the groundwater velocity.

Standard Map Features

- Pond
- Perennial stream
- Intermittent stream
- Ephemeral stream

N
W E
S

0 600 1,200 Feet

Scale 1:14,400

State Plane Coordinate Projection
Colorado Central Zone
Datum: NAD 27

U.S. Department of Energy
Rocky Flats Environmental
Technology Site

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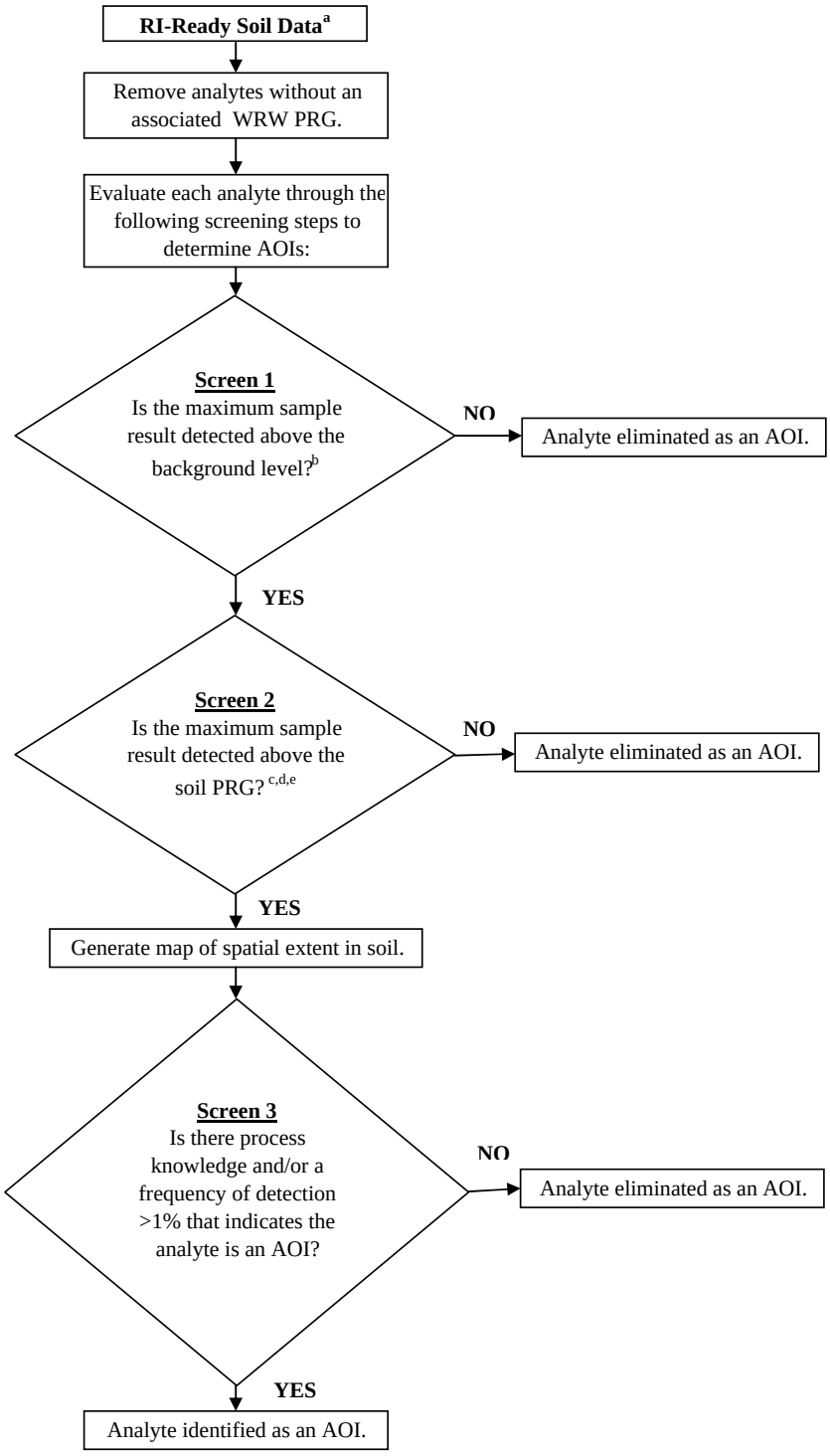
Figure 9
Soil Nature and Extent AOI Identification Process



[a] Soil "superset" for soil samples collected from June 28, 1991 through August 22, 2005.

[b] Background level is defined as the background M2SD.

[c] Soil PRGs are defined as 1 x 10^{-6} WRW PRGs based on using an HI of 0.1 or a risk of 1 x 10^{-6} (the more conservative of the two values was used for the PRG).

[d] The PRG value for lead is not a calculated PRG, but rather is taken from the EPA guidance document Revised Interim Soil Lead Guidance for CERCLA Sites and RCRA Correction Action Facilities (1994).

[e] For surface soil (0 to 0.5 ft), WRW surface soil (0 to 0.5 ft) PRGs are used. For subsurface soil (0.5 ft to a maximum depth of 209 ft), WRW subsurface soil (0.5 to 8 ft) PRGs are used.

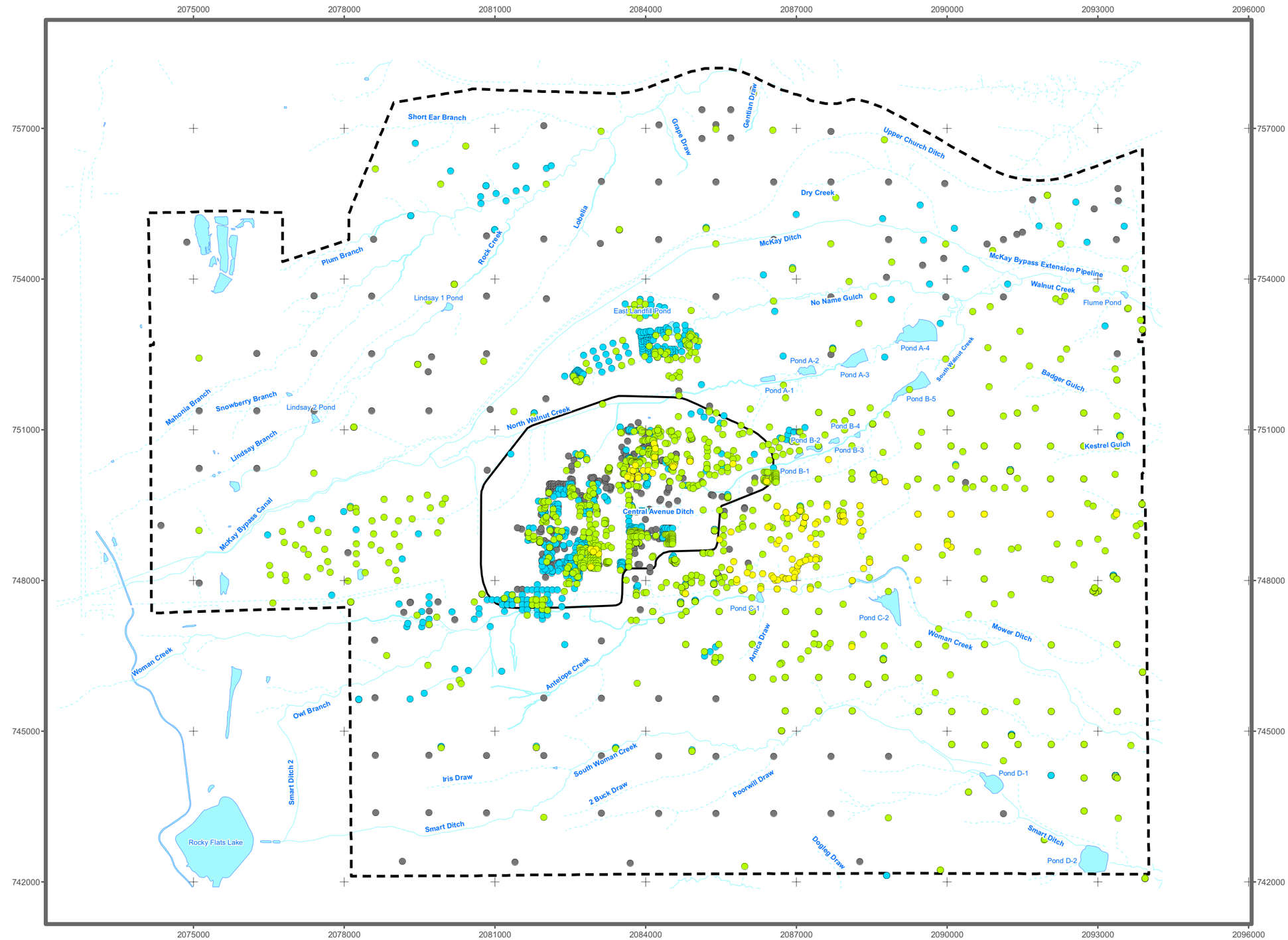


Figure 10
Plutonium-239/240 Activity in Surface Soil

KEY

- >= WRW PRG
- > Background M2SD and < WRW PRG
- Detected and <= Background M2SD
- Not detected

Minimum nondetect reported value = -0.078 pCi/g
Maximum nondetect reported value = 0.218 pCi/g
Background M2SD = 0.066 pCi/g
WRW PRG = 9.8 pCi/g

Notes:
- Data presented are the results from soil samples collected between 6/28/1991 and 8/22/2005.
- See Tables 3.1 and 3.13 for additional information.

Standard Map Features

- IA OU boundary
- Pond
- Perennial stream
- Intermittent stream
- Ephemeral stream
- Site boundary

N
W E
S

0 1,000 2,000 Feet

Scale 1:24,000

State Plane Coordinate Projection
Colorado Central Zone
Datum: NAD 27

U.S. Department of Energy
Rocky Flats Environmental Technology Site

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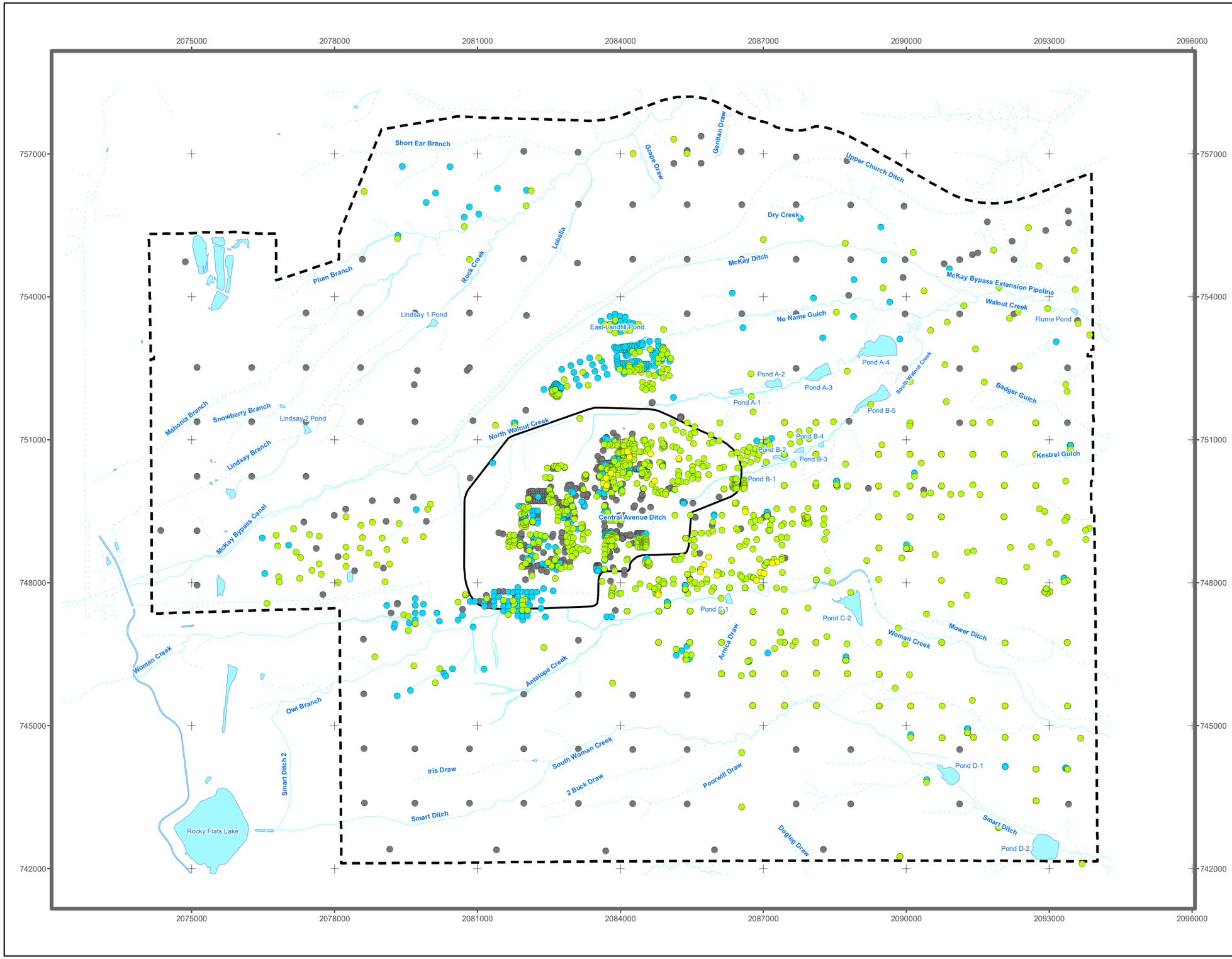

Figure 11
Americium-241 Activity in Surface Soil

KEY

- >= WRW PRG
- > Background M2SD and < WRW PRG
- Detected and <= Background M2SD
- Not detected

Minimum nondetect reported value = -0.082 pCi/g
Maximum nondetect reported value = 0.327 pCi/g
Background M2SD = 0.022 pCi/g
WRW PRG = 7.69 pCi/g

Notes:
- Data presented are the results from soil samples collected between 6/28/1991 and 8/22/2005.
- See Tables 3.1 and 3.13 for additional information.

Standard Map Features

- IA OU boundary
- Pond
- Perennial stream
- Intermittent stream
- Ephemeral stream
- Site boundary

N
W E
S

0 1,000 2,000 Feet

Scale 1:24,000

State Plane Coordinate Projection
Colorado Central Zone
Datum: NAD 27

U.S. Department of Energy
Rocky Flats Environmental Technology Site

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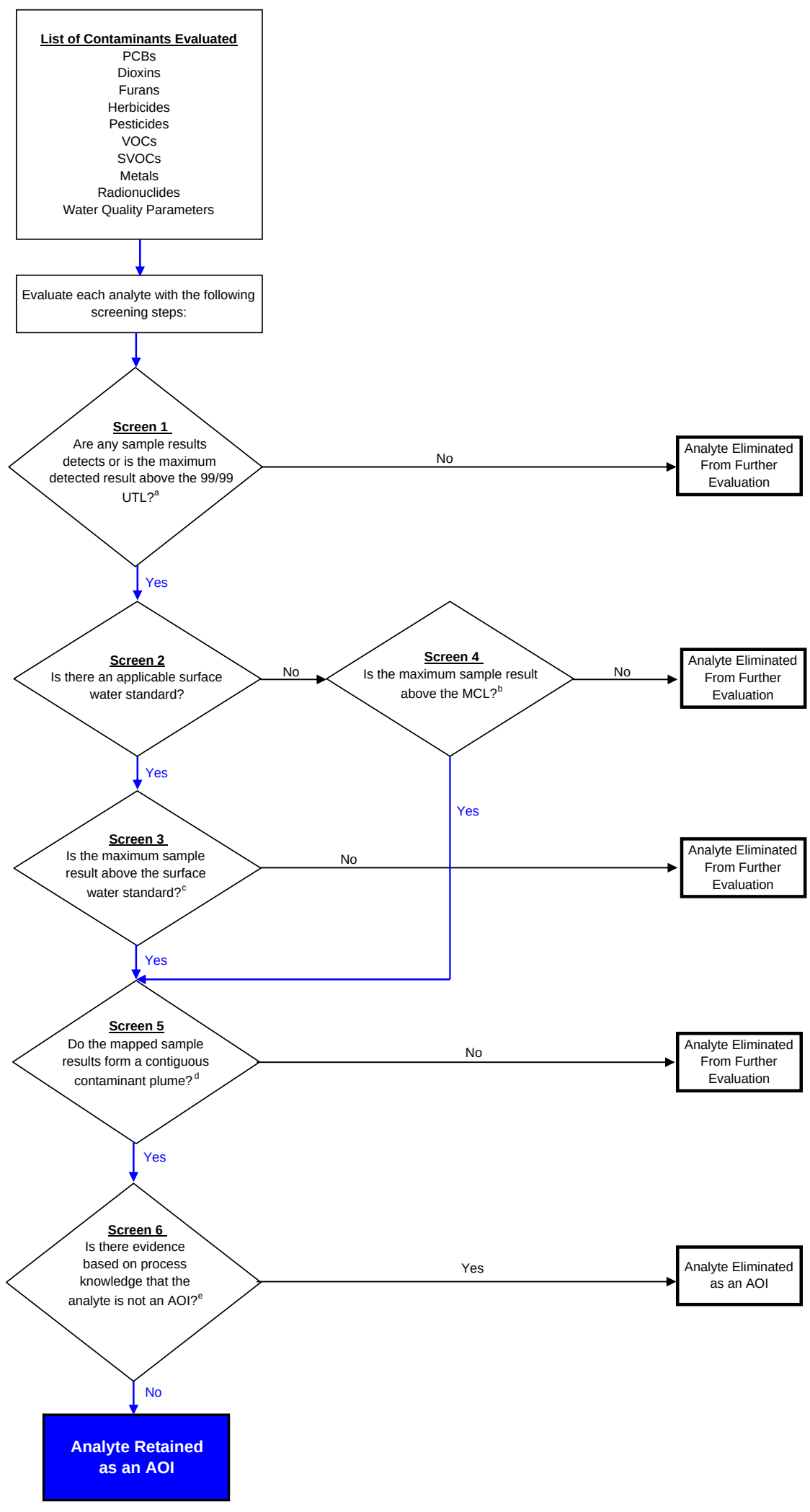
Figure 12
Groundwater AOI Screening Process



[a] Background level is the 99/99 UTL reported in the Background Geochemical Characterization Report (DOE 1993). For constituents without background 99/99 UTL values, such as organic compounds and select inorganic and radionuclide constituents, it was assumed that detection of these constituents indicates their presence in the environment. These constituents were carried forward to Screening Step 2.

[b] For analytes without a surface water standard, Screen 4 is performed using the MCL. MCLs have been established by EPA for many chemical contaminants and represent the maximum permissible level of a contaminant in drinking water. MCLs are listed at 40 CFR 141. If the PQL is higher than the surface water standard or MCL, the PQL is used as the comparison value. For simplicity, MCLs and PQLs are hereinafter referred to as MCLs.

[c] Surface water standards are not available for some analytes. For these analytes Screen 4 is performed using MCLs. See footnote b above.

[d] Data shown on the maps represent the most recent sample result available at each well. A contiguous plume is defined as three or more adjacent wells with concentrations or activities above background and either the surface water standard, MCL, or PQL, whichever is applicable.

[e] DOE recognizes that process knowledge at RFETS is not perfectly known. However, process knowledge alone is not used to retain or eliminate a constituent as an AOI. Other analyte criteria such as its areal distribution relative to RFETS activities, its proximity to contaminant sources, accelerated actions performed to remove contaminant source(s), and its natural occurrence and distribution in the environment are also considered when evaluating whether to retain or eliminate a constituent as an AOI.

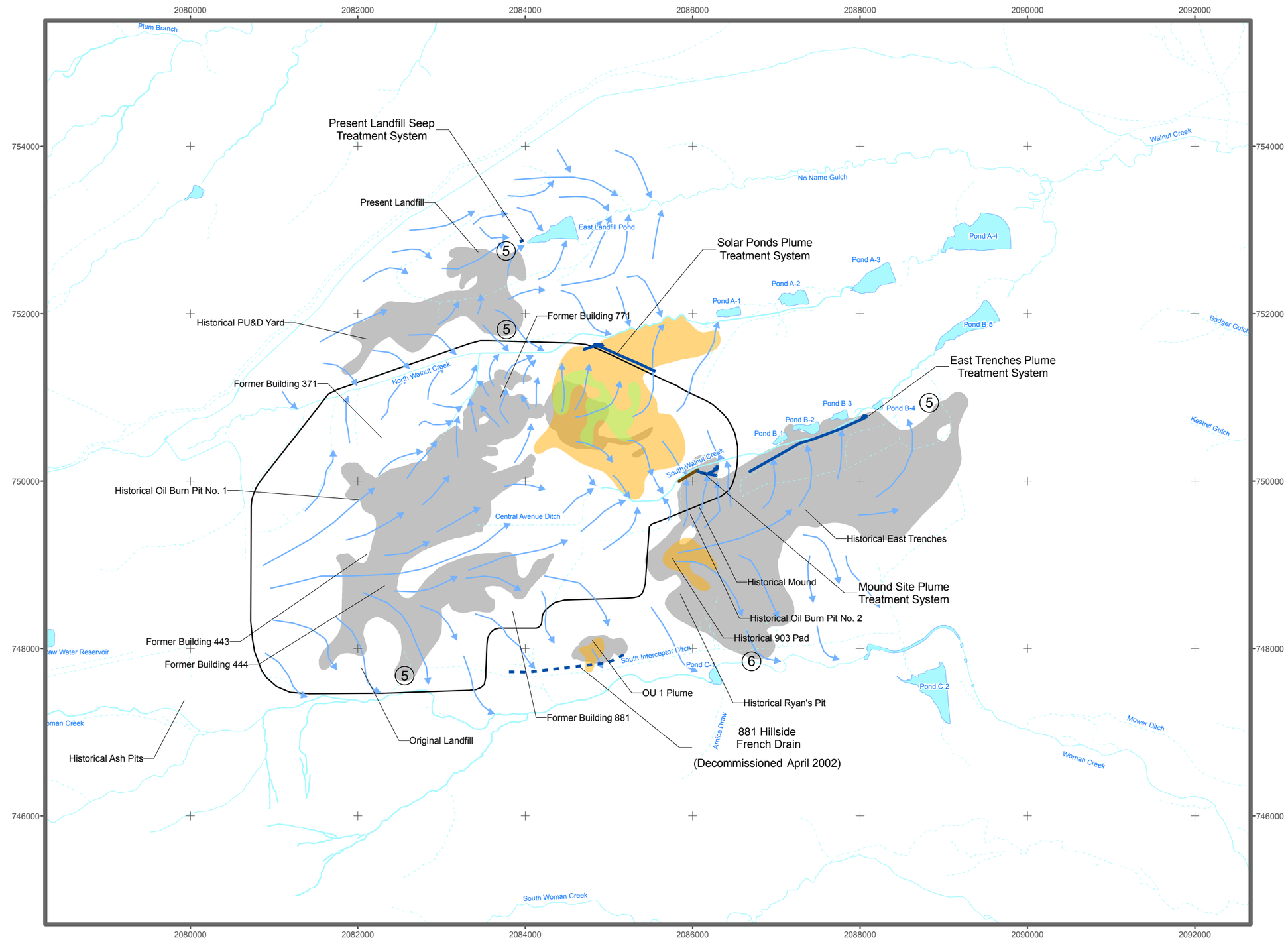


Figure 13

Composite Plume Map[1]

KEY

- Predicted groundwater flow direction (from figure 2.18)[2]
- Groundwater treatment system
- 881 Hillside French drain
- Mound French drain
- Nitrate exceeds the surface water standard
- Uranium (unfiltered) exceeds the surface water standard[3]
- VOC composite plume[4]

Notes:

1) No metals or flouride were included because of their dissimilar transport characteristics.
2) The length of the arrow does not correspond to the groundwater velocity.
3) There is no radionuclide filtered uranium standard and thus it has not been represented on the map. (Uranium that exceeded the metal filtered uranium standard is less than 1% of the data and is also not represented.)
4) The VOC composite plume is all VOC AOIs that exceed the surface water standard.
5) Modeling results indicate that groundwater discharge concentrations will be below surface water standards at these locations.
6) Groundwater in the area is in weathered bedrock and is only saturated during wet years, thus AOI transport is limited to wet years (high groundwater levels). See the Groundwater IM/IRA for details.

Standard Map Features

- IA OU boundary
- Pond
- Perennial stream
- Intermittent stream
- Ephemeral stream

N
W E
S

0 600 1,200 Feet

Scale 1:14,400

State Plane Coordinate Projection
Colorado Central Zone
Datum: NAD 27

U.S. Department of Energy
Rocky Flats Environmental Technology Site

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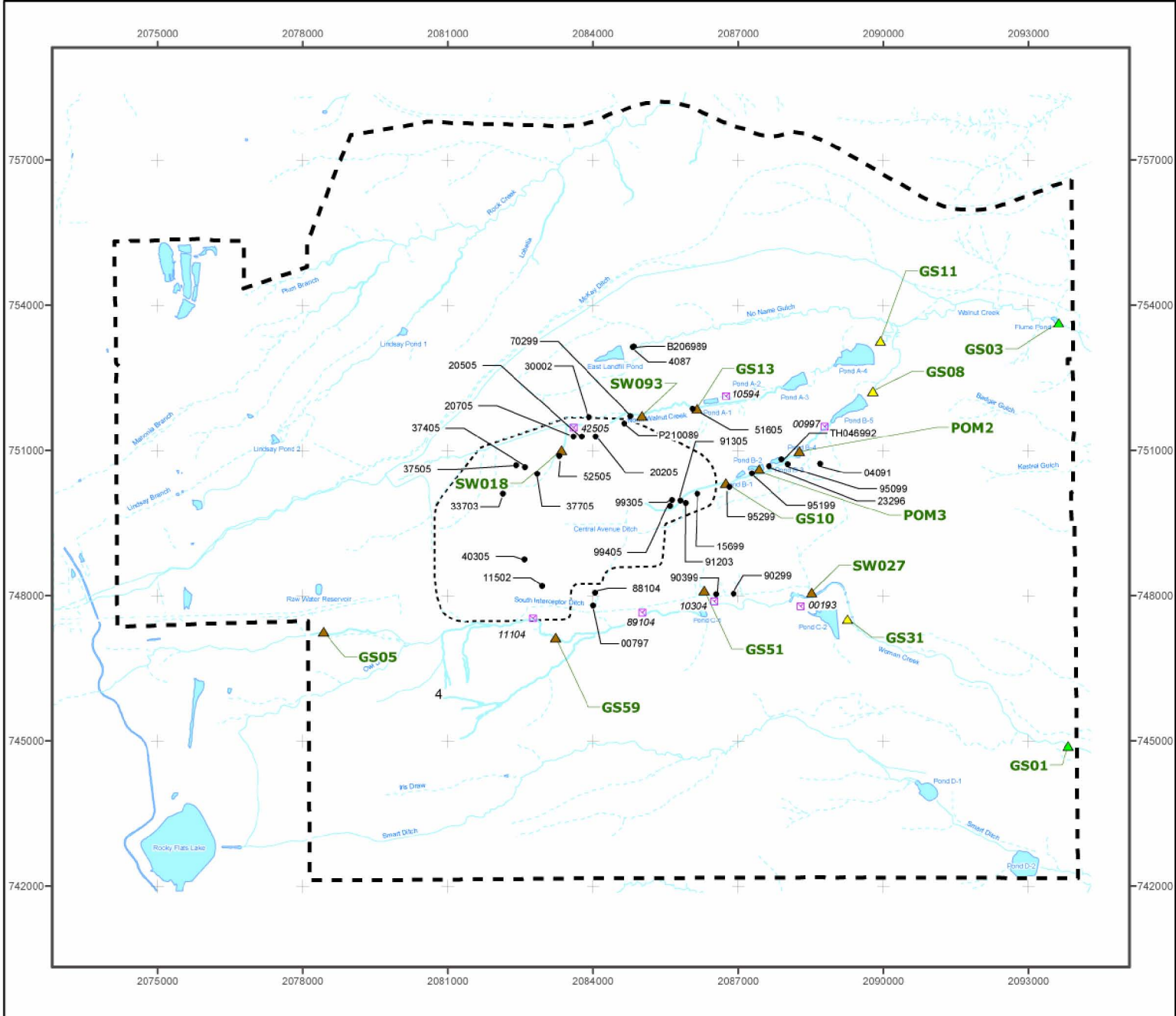


Figure 14

Representative Groundwater and Surface Water Monitoring Locations

KEY

- Area of concern well
- Sentinel well
- Surface water monitoring location representing segment 5
- Surface water monitoring location representing segments 4a and 4b
- Surface water monitoring location representing water quality upstream of the terminal ponds

Notes:
1) Groundwater monitoring in the Present Landfill and Original Landfill areas is defined in corresponding RFCA Decision Documents. This is defined and shown in the Fiscal Year 2005 Integrated Monitoring Plan (IMP).
2) Some of the wells shown on this figure and listed in the IMP will be replaced (with wells that have different identification numbers) and the IMP will be updated accordingly.

Standard Map Features

- Industrial Area Operable Unit boundary
- Pond
- Site boundary
- Perennial stream
- Intermittent stream
- Ephemeral stream

N
W E
S

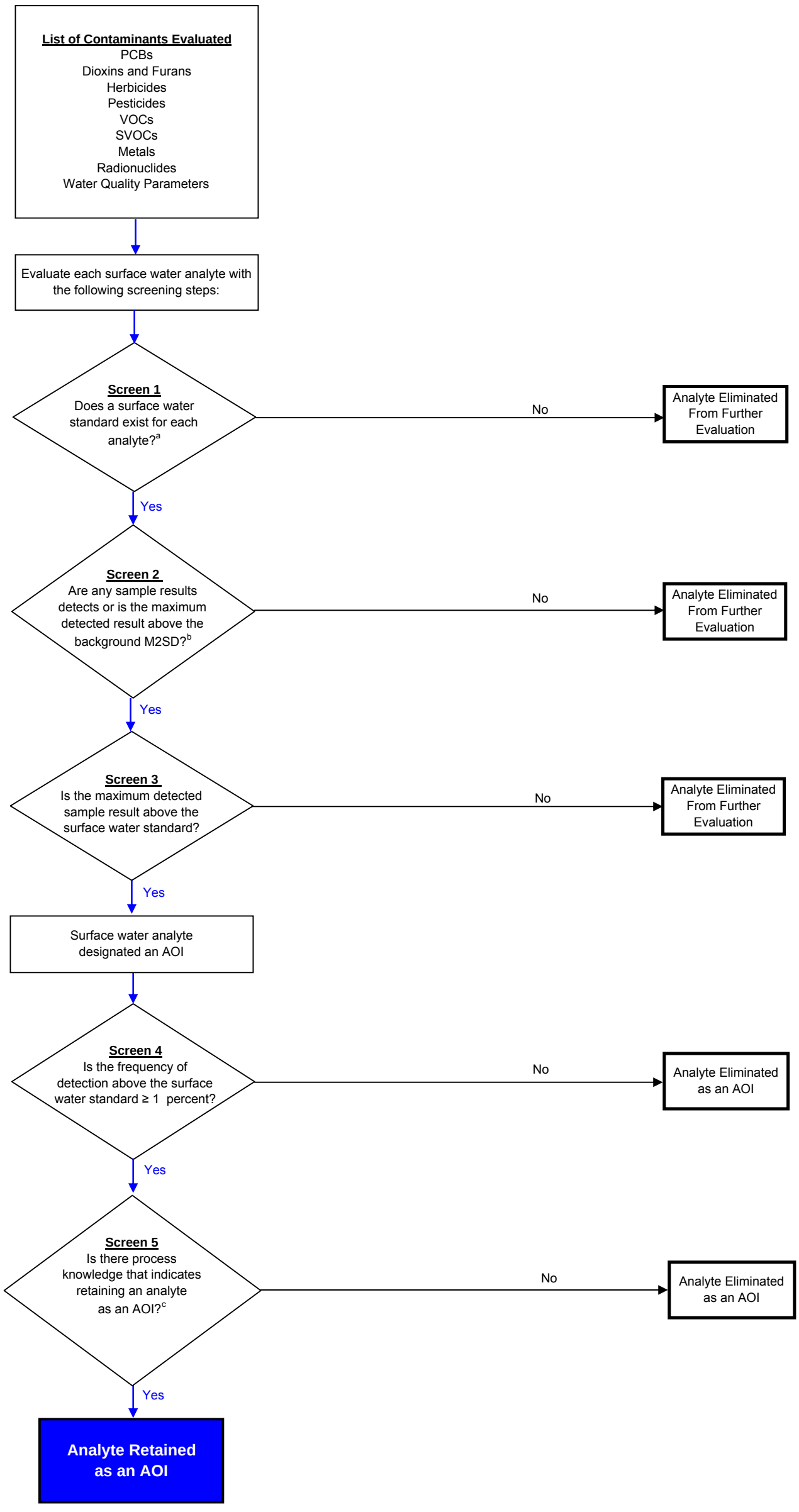
0 1,500 3,000 Feet

Scale 1:36,000

State Plane Coordinate Projection
Colorado Central Zone
Datum: NAD 27

U.S. Department of Energy
Rocky Flats Environmental Technology Site

Figure 15
Surface Water AOI Screening Process



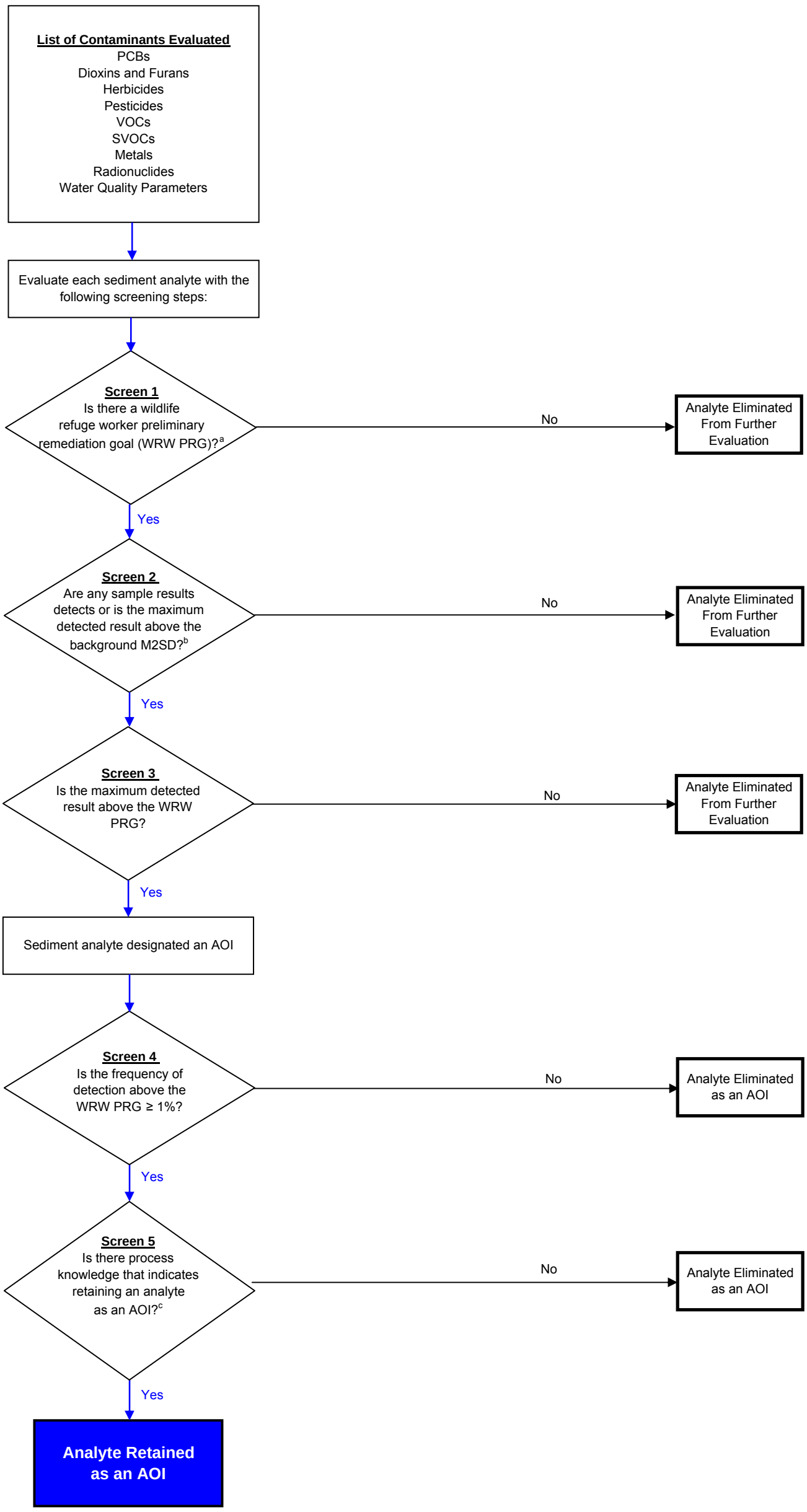
Notes:

[a]If the practical quantitation limit (PQL) is higher than the surface water standard, the PQL is used as the comparison value.

[b]Background mean + two standard deviation (M2SD) values used to evaluate surface water nature and extent were developed as part of the Comprehensive Risk Assessment (DOE 2005b). For constituents (organic compounds, some inorganic, and some radionuclides) that do not have background values, it was assumed that detection of these constituents indicates their presence in the environment.

[c]DOE recognizes that process knowledge at RFETS is not perfectly known. However, process knowledge alone is not used to retain or eliminate a constituent as an AOI. Other analyte criteria such as its areal distribution relative to RFETS activities, its proximity to contaminant sources, accelerated actions performed to remove contaminant source(s), and its natural occurrence and distribution in the environment are also considered when evaluating whether to retain or eliminate a constituent as an AOI.

Figure 16
Sediment AOI Screening Process



Notes:

[a]Human health WRW PRG is based on a target excess carcinogenic risk of 1 x 10^{-6} or a hazard quotient (HQ) of 0.1.

[b]Background mean + two standard deviation (M2SD) values used to evaluate sediment nature and extent were developed as part of the Comprehensive Risk Assessment (DOE 2005). For constituents (organic compounds, some inorganic, and some radionuclides) that do not have background values, it was assumed that detection of these constituents indicates their presence in the environment.

[c]DOE recognizes that process knowledge at RFETS is not perfectly known. However, process knowledge alone is not used to retain or eliminate a constituent as an AOI. Other analyte criteria such as its areal distribution relative to RFETS activities, its proximity to contaminant sources, accelerated actions performed to remove contaminant source(s), and its natural occurrence and distribution in the environment are also considered when evaluating whether to retain or eliminate a constituent as an AOI.

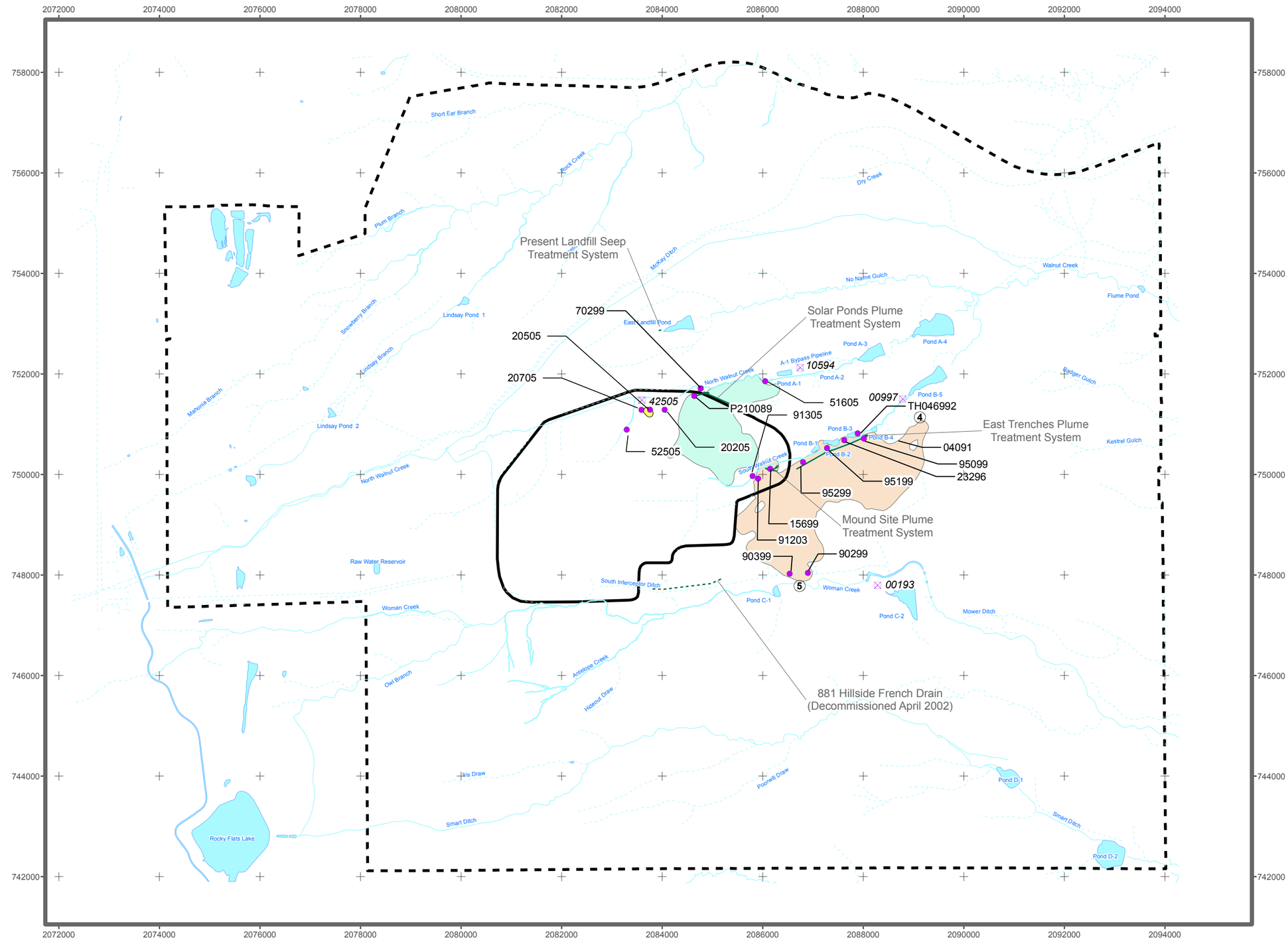


Figure 17

Groundwater Areas with Sentinel Wells Above the Higher of the Surface Water Standard, Background, or PQL

KEY

- Area of concern well
- Sentinel well
- Groundwater treatment system
- Decommissioned French drain
- North of Former Building 771[1]
- Historical Solar Ponds Area and former 700 Area Northeast Plume[2]
- -Historical East Trenches
  -Historical 903 Pad/Ryan's Pit
  -Historical Mound/Oil Burn Pit No. 2[3]

Notes:

1) AOI associated with the area north of former Building 771: trichloroethene.
2) AOIs associated with the historical Solar Ponds area: nitrate/nitrite, sulfate, and uranium. AOI associated with the former 700 Area Northeast Plume: nitrate/nitrite.
3) AOIs associated with the historical East Trenches: carbon tetrachloride, chloroform, tetrachloroethene, trichloroethene, and cis-1,2-dichloroethene. AOIs associated with the historical 903 Pad/Ryan's Pit area (both northern and southern flow paths): carbon tetrachloride, chloroform, tetrachloroethene, trichloroethene, and cis-1,2-dichloroethene. AOIs associated with the historical Mound/Oil Burn Pit No. 2: chloroform, trichloroethene, cis-1,2-dichloroethene, 1,1-dichloroethene, methylene chloride, sulfate, carbon tetrachloride, and tetrachloroethene.
4) Modeling results indicate that groundwater discharge concentrations will be below surface water standards at these locations.
5) Groundwater in the area is in weathered bedrock and is only saturated during wet years, thus AOI transport is limited to wet years (high groundwater levels). See the Groundwater IM/IRA for details.

Standard Map Features

- IA OU boundary
- Pond
- Site boundary
- Perennial stream
- Intermittent stream
- Ephemeral stream

N W E S

0 1,000 2,000 Feet

Scale 1:24,000

State Plane Coordinate Projection
Colorado Central Zone
Datum: NAD 27

U.S. Department of Energy
Rocky Flats Environmental Technology Site

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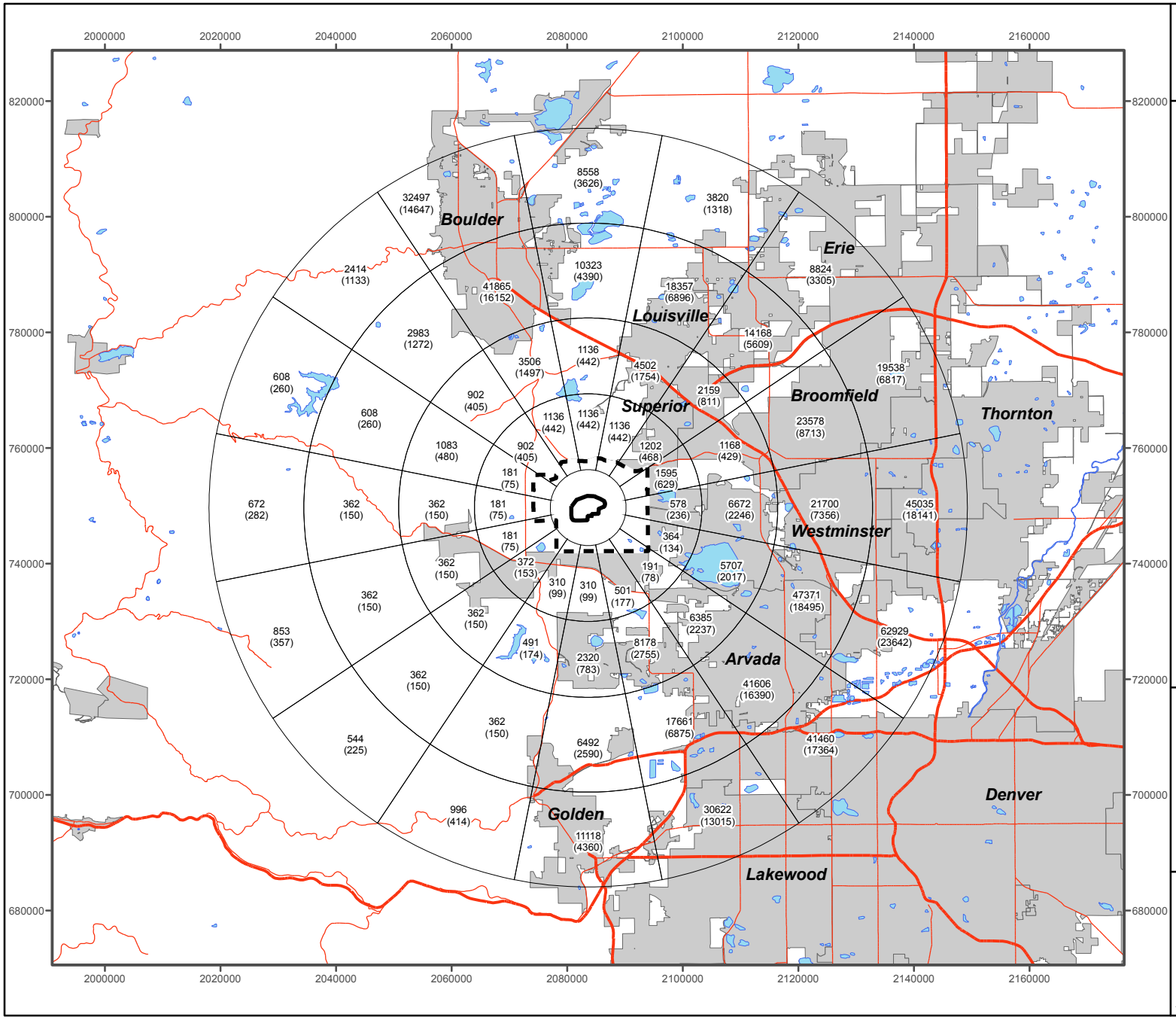

Figure 18

Population Distribution - 2004

KEY

- Population distribution
- Waterbodies
- Site boundary
- City boundary
- IA OU boundary

Major Transportation Routes

- Other
- Interstate

Note:
The center of the pie chart is the location of the former Industrial Area at the Rocky Flats Environmental Technology Site. The numbers represent the population of each pie area. The numbers in parentheses represent the number of households.

N
W E
S

0 12,500 25,000 Feet

Scale 1:300,000

State Plane Coordinate Projection
Colorado Central Zone
Datum: NAD 27

U.S. Department of Energy
Rocky Flats Environmental
Technology Site

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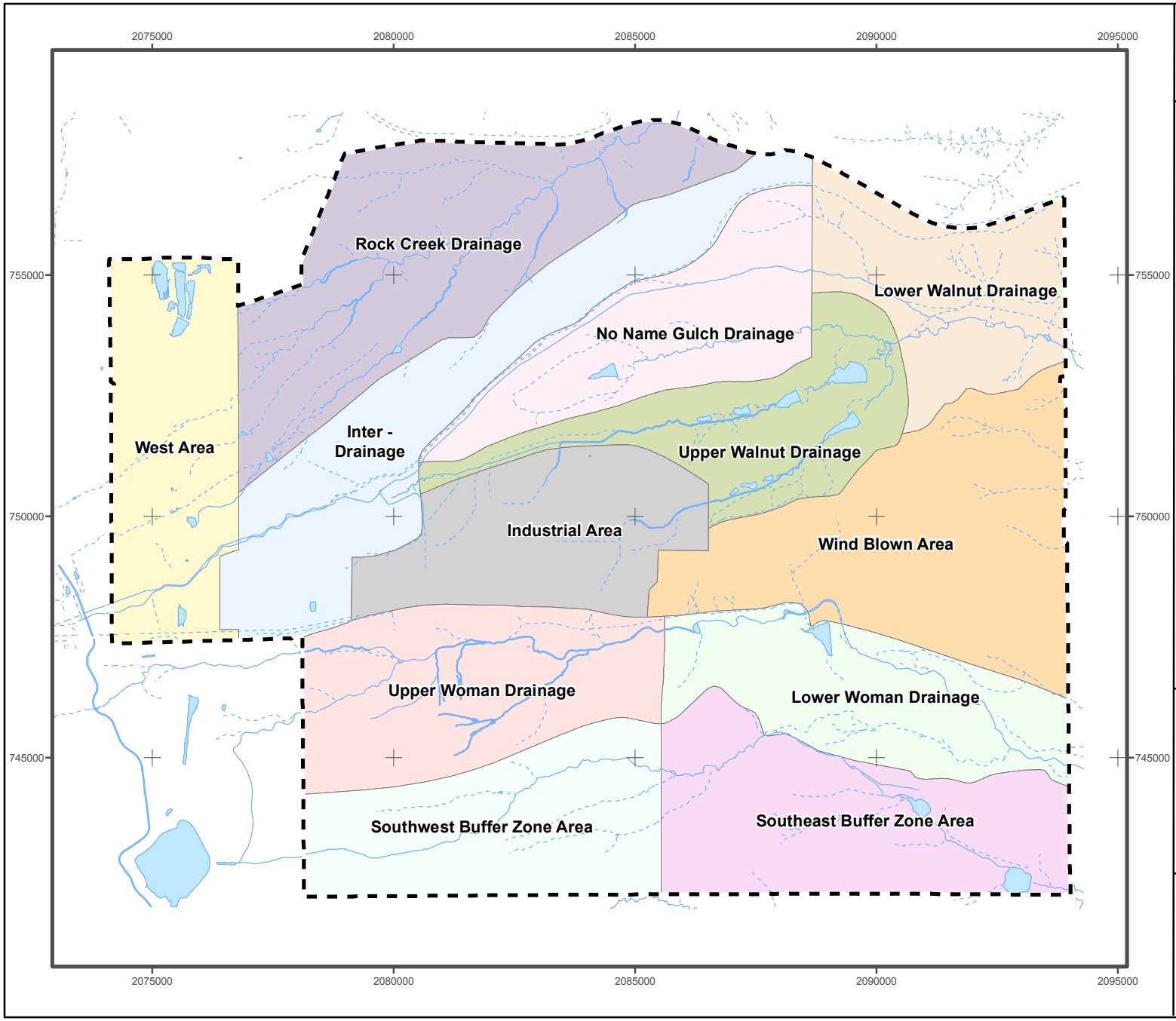

Figure 19
Rocky Flats Environmental Technology Site
Exposure Units

KEY

- Exposure unit boundary
- Pond
- Site boundary
- Perennial stream
- Intermittent stream
- Ephemeral stream

N
W E
S

0 1,500 3,000 Feet

Scale 1:36,000

State Plane Coordinate Projection
Colorado Central Zone
Datum: NAD 27

U.S. Department of Energy
Rocky Flats Environmental Technology Site

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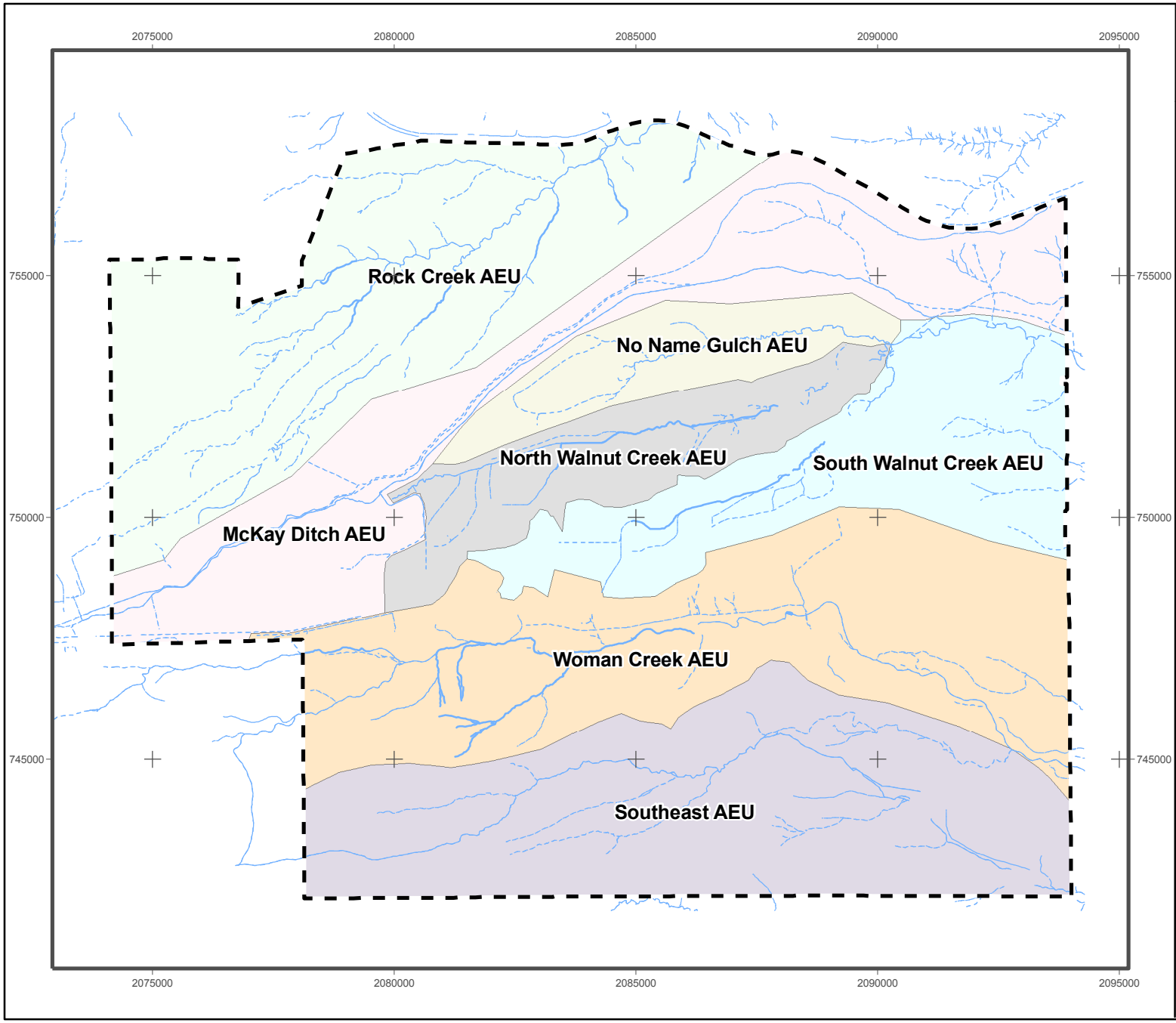

Figure 20
Rocky Flats Environmental Technology Site
Aquatic Exposure Units

KEY

- Aquatic exposure unit boundary
- Pond
- Site boundary
- Perennial stream
- Intermittent stream
- Ephemeral stream

N
W E
S

0 1,500 3,000 Feet

Scale 1:36,000

State Plane Coordinate Projection
Colorado Central Zone
Datum: NAD 27

U.S. Department of Energy
Rocky Flats Environmental Technology Site

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Figure 21. Human Health CRA COC Selection Process

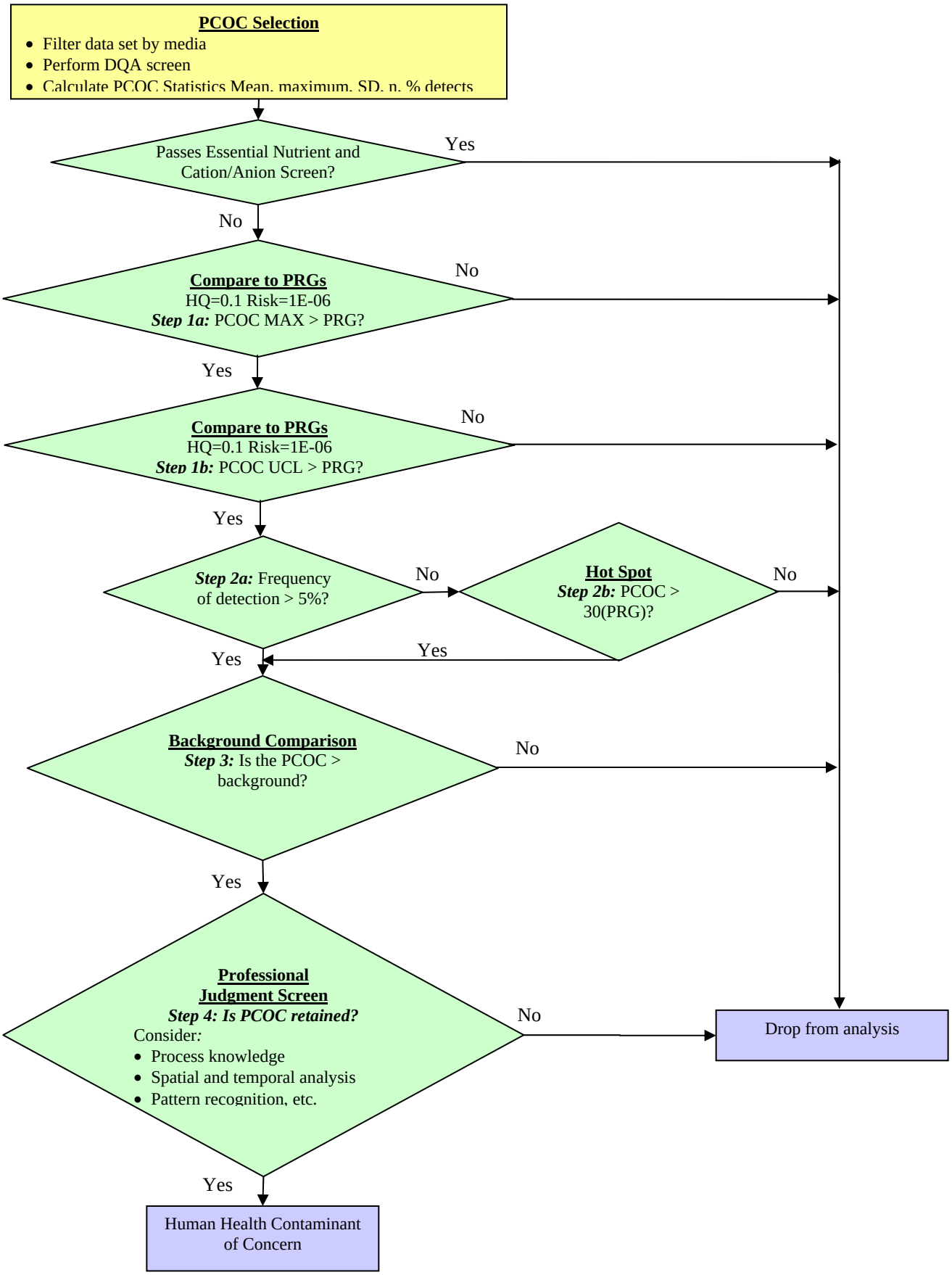

Figure 22 Human Health Site Conceptual Model

Primary Source	Primary Release Mechanism	Affected Media	Secondary Release Mechanism	Affected Media	Wildlife Refuge Worker Exposure Pathways	Wildlife Refuge Visitor Exposure Pathways
Surface Soil, Subsurface Soil, Sediment, and Building Rubble	Stormwater Runoff	Surface Water Streams/Seeps	Direct Contact		Oral (I) Dermal (I)	Oral (I) Dermal (I)
			Biotic Uptake	Fish	Oral (IC)	Oral (IC)
			Ingestion	Deer/Grazing Animals	Oral (IC)	Oral (I)
	Infiltration Percolation	UHSU Groundwater	Percolation	LHSU Groundwater	Oral (IC) Dermal (IC)	Oral (IC) Dermal (IC)
			Domestic Use		Oral (IC) Dermal (IC)	Oral (IC) Dermal (IC)
			Surface Water		Oral (I) Dermal (I)	Oral (I) Dermal (I)
	Volatilization	Groundwater Subsurface Soil	Volatilization	Indoor Air	Inhalation (I)	Inhalation (IC)
				Outdoor Air	Inhalation (I)	Inhalation (I)
		Surface Water	Volatilization	Outdoor Air	Inhalation (I)	Inhalation (I)
	Resuspension	Airborne Particulates		Indoor Air	Inhalation (S)	Inhalation (IC)
				Outdoor Air	Inhalation (S)	Inhalation (S)
			Deposition	Deer/Grazing Animals	Oral (IC)	Oral (I)
	Plant Uptake	Vegetation	Ingestion	Deer/Grazing Animals	Oral (IC)	Oral (I)
	Direct Contact	Surface Soil (0 to 0.5 foot)[a]			Oral (S) Dermal (S[b])	Oral (S) Dermal (S[c])
		Subsurface Soil (0.5 to 8 feet)			Oral (S) Dermal (S[b])	Oral (IC) Dermal (IC)
		Subsurface Soil (Below 8 feet)			Oral (IC) Dermal (IC)	Oral (IC) Dermal (IC)
		Sediment[a]			Oral (S) Dermal (S[b])	Oral (S[b]) Dermal (S[b])
		Building Rubble			Oral (IC) Dermal (IC)	Oral (IC) Dermal (IC)
	Radioactive Decay	Surface Soil			External Irradiation (S)	External Irradiation (S)
		Subsurface Soil			External Irradiation (I)	External Irradiation (I)
		Sediment			External Irradiation (S)	External Irradiation (I)
		Building Rubble			External Irradiation (I)	External Irradiation (I)

a. Surface soil and sediments to a depth of 0.5 foot will be combined for the exposure assessment.

b. Dermal exposures will be assessed for organic COCs only.

UHSU - upper hydrostratigraphic unit
LHSU – lower hydrostratigraphic unit

Key to Exposure Pathways:
S – Significant
I – Insignificant
IC – Incomplete

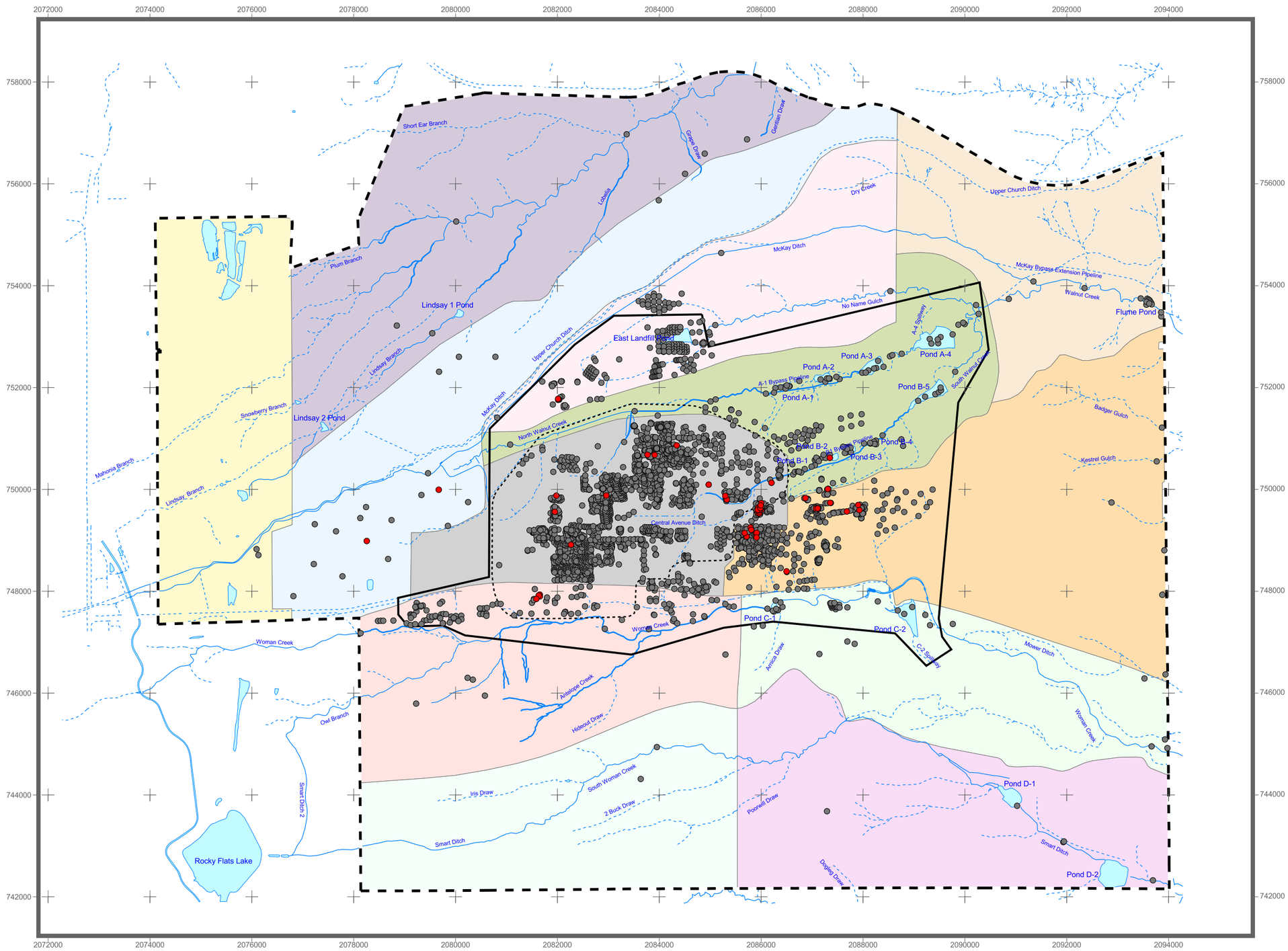

Figure 23

Subsurface Soil Sampling Locations Where Volatilization PRGs Were Exceeded

KEY

- Exceeded volatilization PRGs
- Did not exceed volatilization PRGs

A location is classified as a PRG exceedance if any analyte was detected at a concentration exceeding its PRG since June 28, 1991.

Standard Map Features

- Central OU boundary
- IA OU boundary
- Site boundary
- Pond
- Perennial stream
- Intermittent stream
- Ephemeral stream

Exposure Units

- Industrial Area
- Inter-Drainage
- Lower Walnut Drainage
- Lower Woman Drainage
- No Name Gulch Drainage
- Rock Creek Drainage
- Southeast Buffer Zone Area
- Southwest Buffer Zone Area
- Upper Walnut Drainage
- Upper Woman Drainage
- West Area
- Wind Blown Area

N
W E
S

0 1000 2000 Feet

Scale 1:24,000

State Plane Coordinate Projection
Colorado Central Zone
Datum: NAD 27

U.S. Department of Energy
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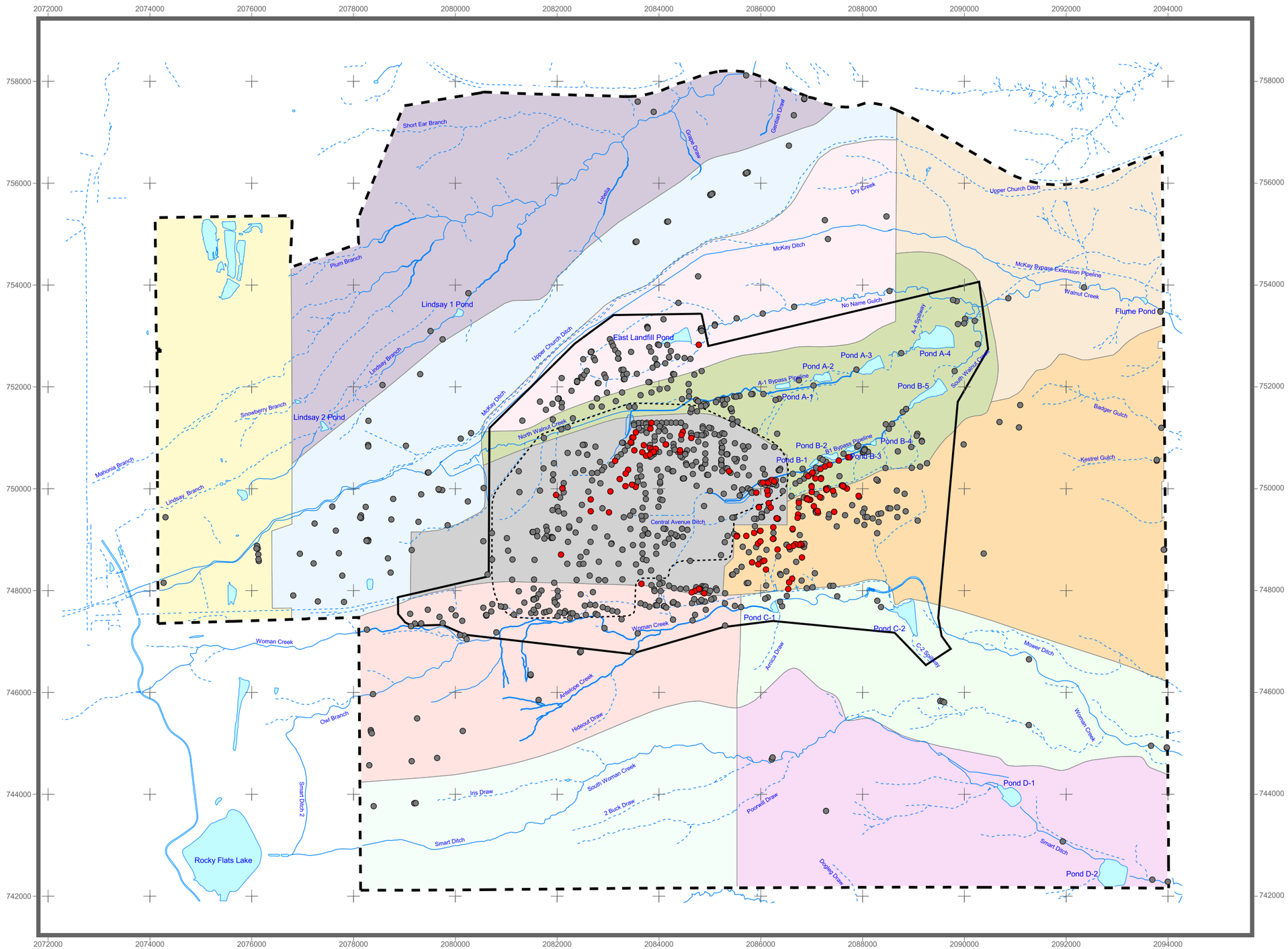

Figure 24

Groundwater Sampling Locations Where Volatilization PRGs Were Exceeded

KEY

- Exceeded volatilization PRGs
- Did not exceed volatilization PRGs

A location is classified as a PRG exceedance if any analyte was detected at a concentration exceeding its PRG since June 28, 1991.

Standard Map Features

- Central OU boundary
- IA OU boundary
- Site boundary
- Pond
- Perennial stream
- Intermittent stream
- Ephemeral stream

Exposure Units

- Industrial Area
- Inter-Drainage
- Lower Walnut Drainage
- Lower Woman Drainage
- No Name Gulch Drainage
- Rock Creek Drainage
- Southeast Buffer Zone Area
- Southwest Buffer Zone Area
- Upper Walnut Drainage
- Upper Woman Drainage
- West Area
- Wind Blown Area

N
W E
S

0 1000 2000 Feet

Scale 1:24,000

State Plane Coordinate Projection
Colorado Central Zone
Datum: NAD 27

U.S. Department of Energy
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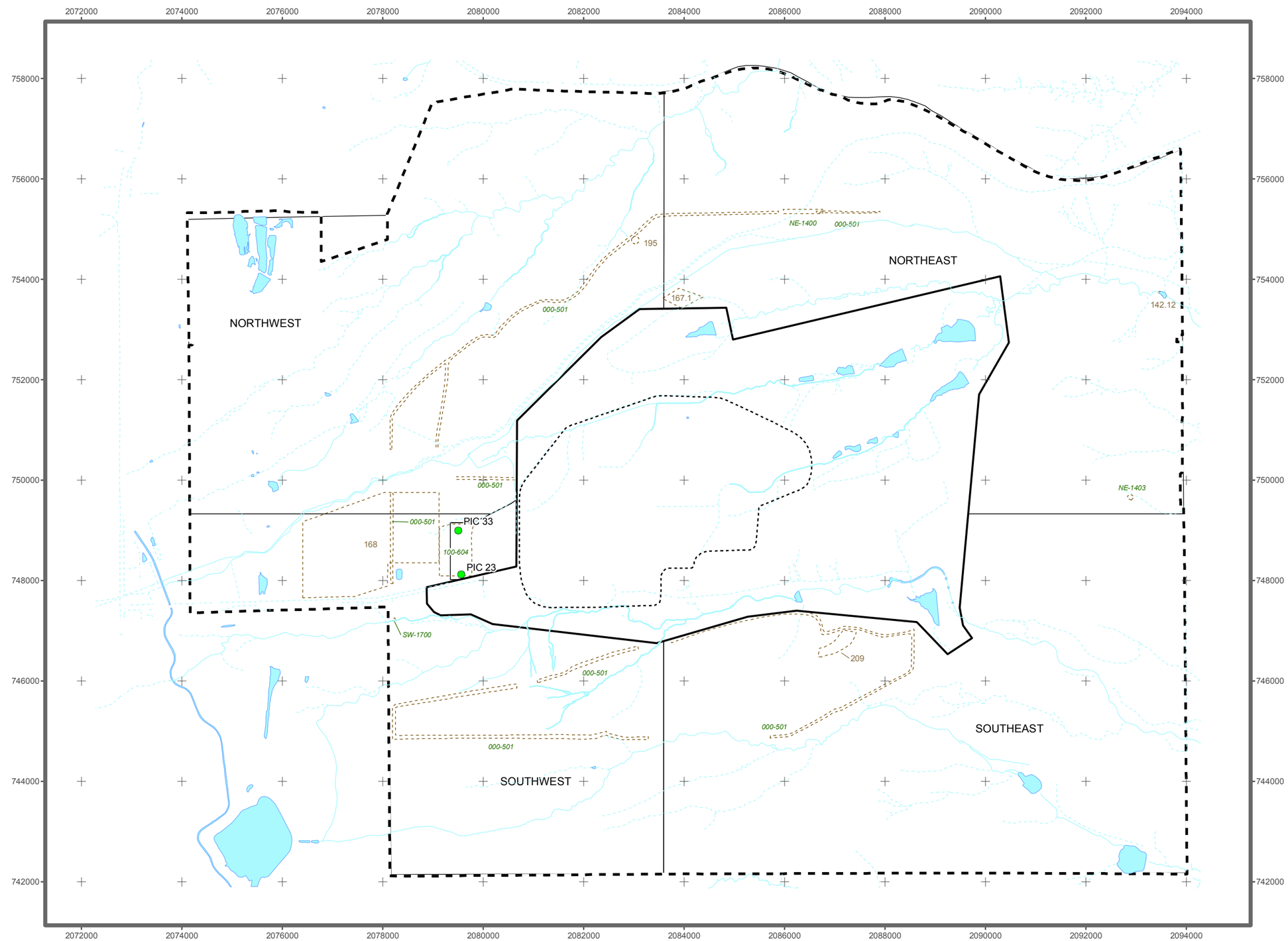

Figure 25

Historical IHSSs, PACs, and PICs in the Peripheral OU

KEY

- Historical PIC
- IA OU boundary
- Proposed Central OU boundary
- Historical IHSS and PAC areas
- Historical HRR area

Standard Map Features

- Pond
- Site boundary
- Perennial stream
- Intermittent stream
- Ephemeral stream

N
W E
S

0 1,000 2,000 Feet

Scale 1:24,000

State Plane Coordinate Projection
Colorado Central Zone
Datum: NAD 27

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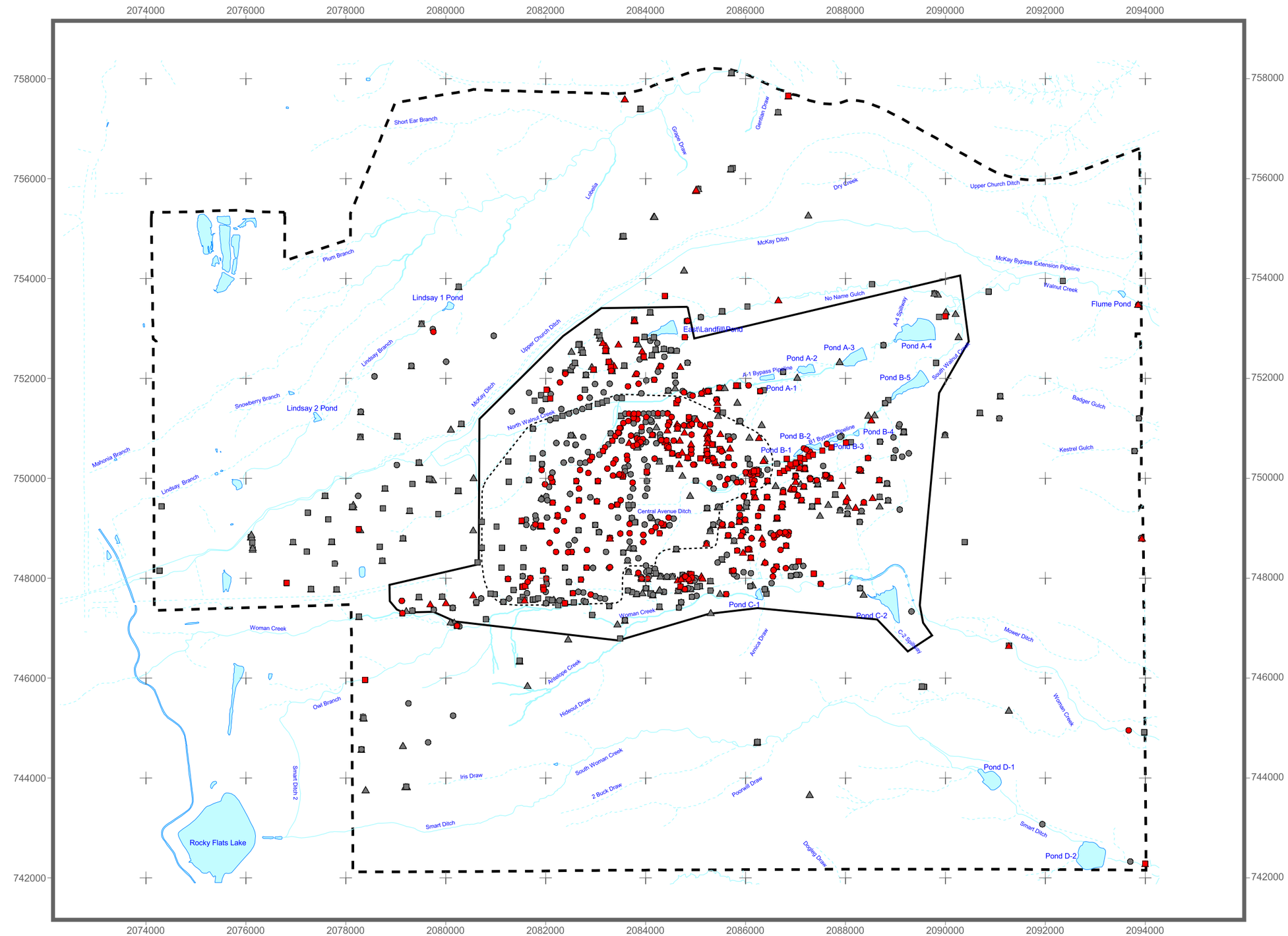

Figure 26

UHSU Groundwater Monitoring Locations Where Composite MCLs Were Exceeded

KEY

- ○ Sample collected since January 1, 2000
- □ Sample collected between January 1, 1995 and December 31, 1999
- △ Sample collected between June 28, 1991 and December 31, 1994
- ● Concentration > MCL
- ● Concentration <= MCL

Standard Map Features

- Central OU boundary
- IA OU boundary
- Pond
- Perennial stream
- Intermittent stream
- Ephemeral stream
- Site boundary

N
W E
S

0 1000 2000 Feet

Scale 1:24,000

State Plane Coordinate Projection
Colorado Central Zone
Datum: NAD 27

U.S. Department of Energy
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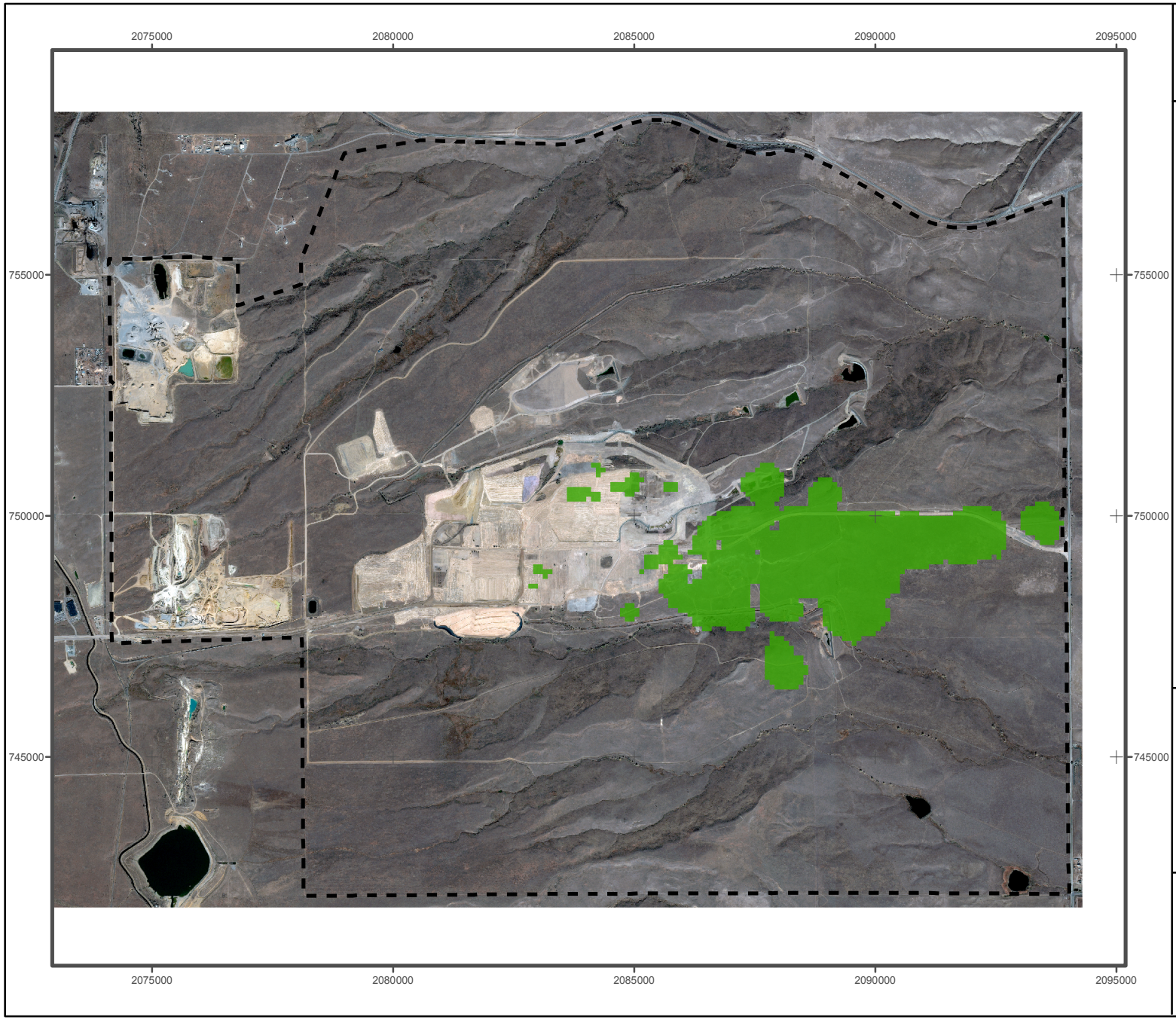

Figure 27
Estimated Sitewide Surface Soil Exceedance Area for Plutonium-239/240

KEY

Site boundary

Area exceeding 9.8 pCi/g based on Kriging results at 90% confidence level

N
W E
S

0 1,500 3,000 Feet

Scale 1:36,000

State Plane Coordinate Projection
Colorado Central Zone
Datum: NAD 27

U.S. Department of Energy
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