

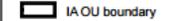
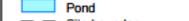
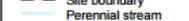
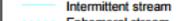
Figure 1.2
Buffer Zone
IHSSs and PACs

KEY

-  HRR Area
-  PAC Area
-  IHSS Area
-  Groundwater Treatment System

* Although geographically located within the IA, this portion of the PAC 000-501 is categorized as part of the BZ. NFAA has been granted.

Standard Map Features

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



0 1,000 2,000
 Feet

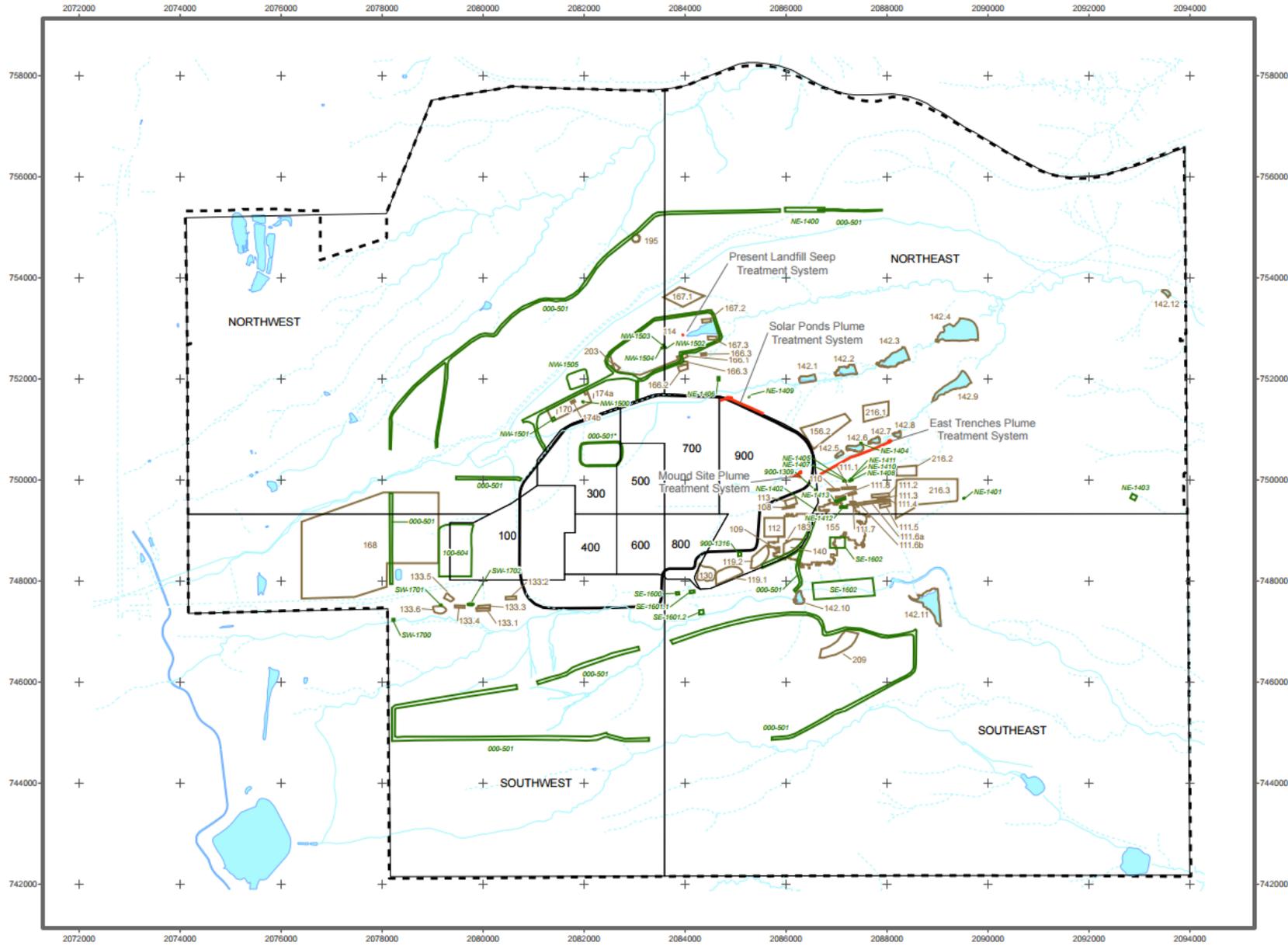
Scale 1:24,000

State Plane Coordinate Projection
 Colorado Central Zone
 Datum: NAD 27

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File: W:\Projects\FY2009\RIFS_FigSec011
 ArcMapFig1_02BufferZone_IHSS_PAC.mxd



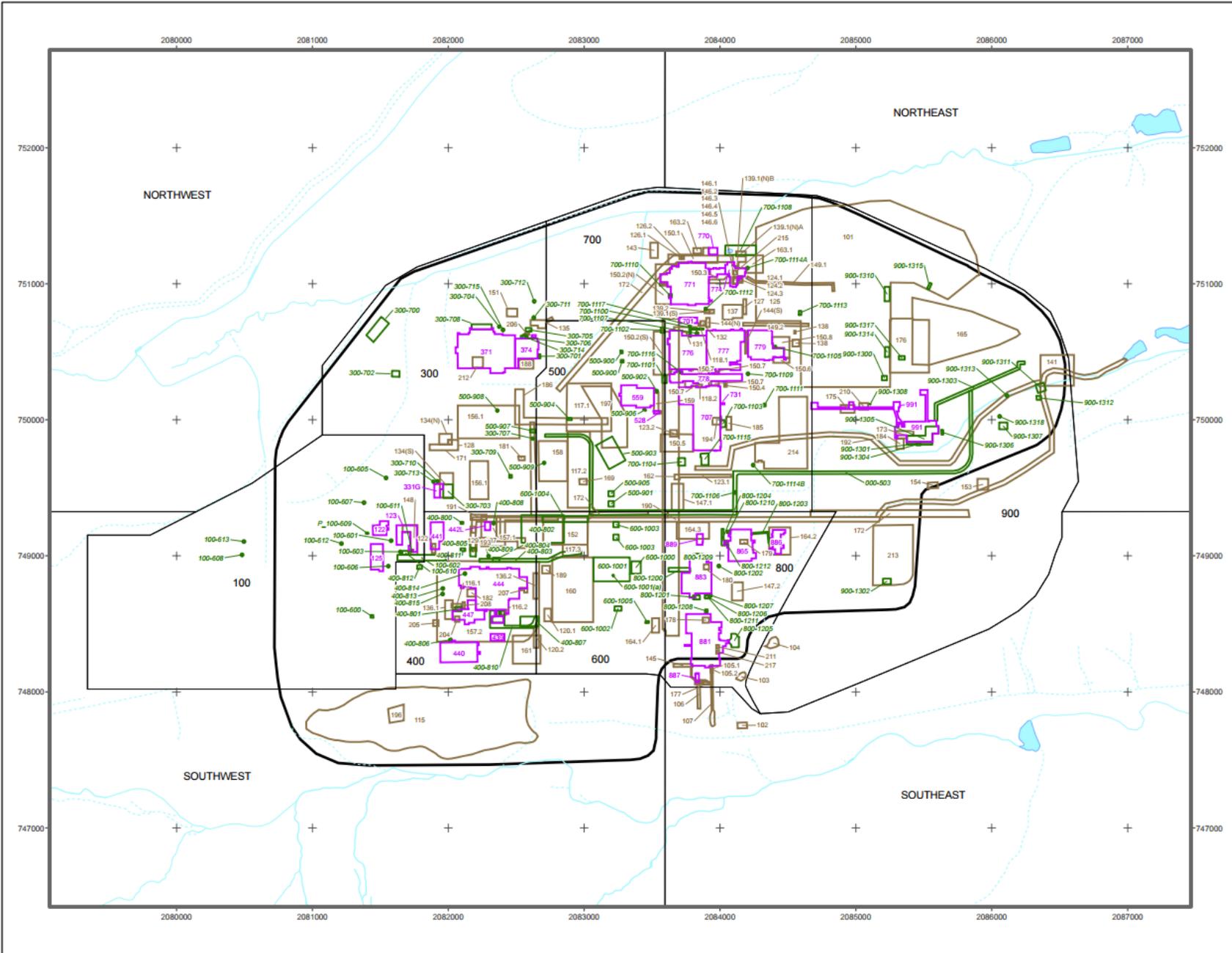


Figure 1.3
Industrial Area
IHSSs, PACs, and UBC Sites

KEY

- PAC Area
- IHSS Area
- UBC Area
- HRR Area

Standard Map Features

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

Scale 1:8,400
 State Plane Coordinate Projection
 Colorado Central Zone
 Datum: NAD 27

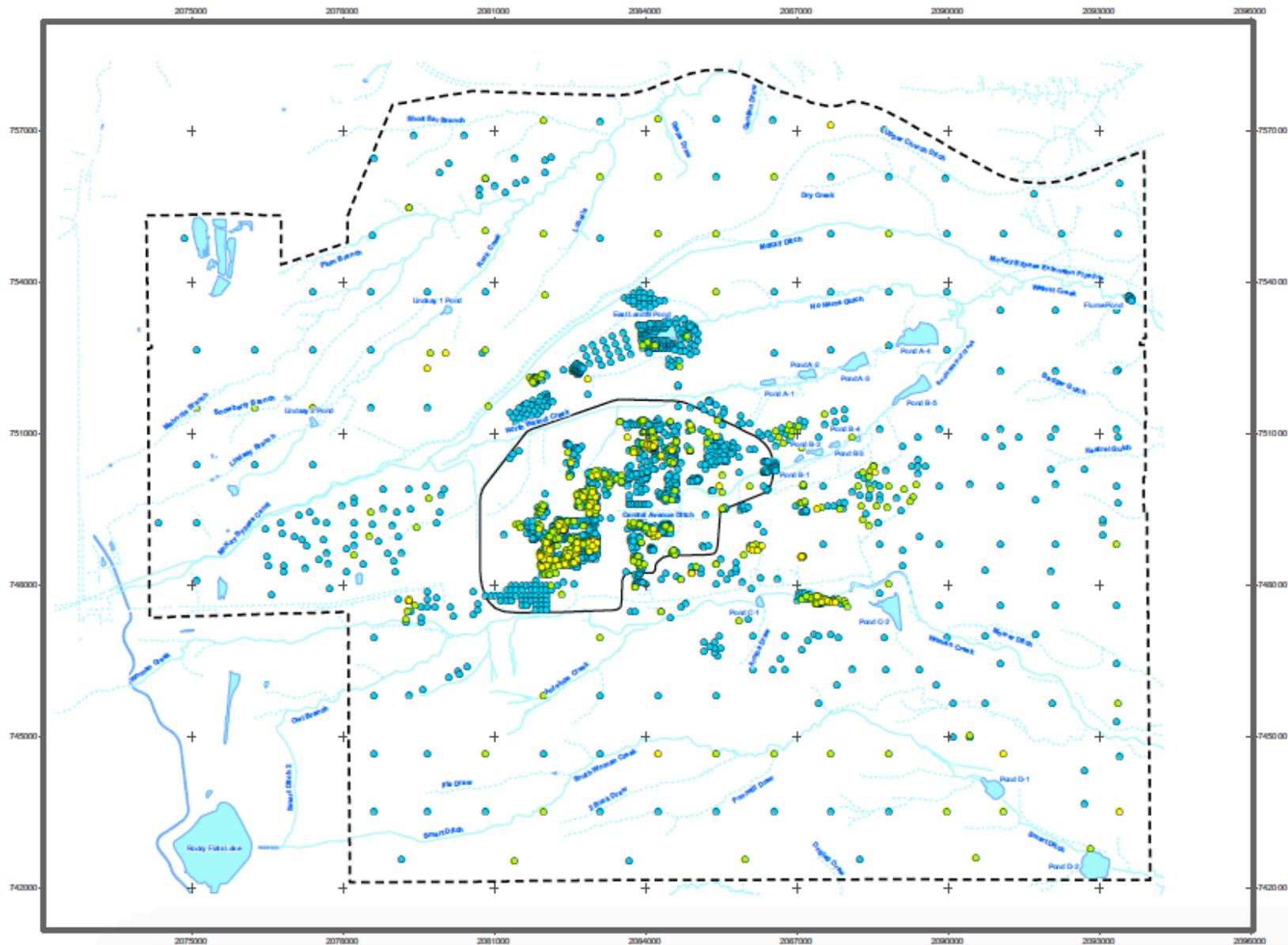


Figure 3.6
Aluminum
Concentrations in
Surface Soil

KEY

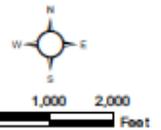
- > WRW PRG
- > Background M2SD and < WRW PRG
- Detected and < Background M2SD
- Not detected

Minimum nondetect reported value = 10.9 mg/kg
 Maximum nondetect reported value = 70 mg/kg
 Background M2SD = 16,715 mg/kg
 WRW PRG = 24,774 mg/kg

Notes:
 - Data presented are the results from soil samples collected between 6/29/1991 and 8/22/2005.
 - See Tables 3.1 and 3.13 for additional information.

Standard Map Features

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



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 Colorado Central Zone
 Datum: NAD 27

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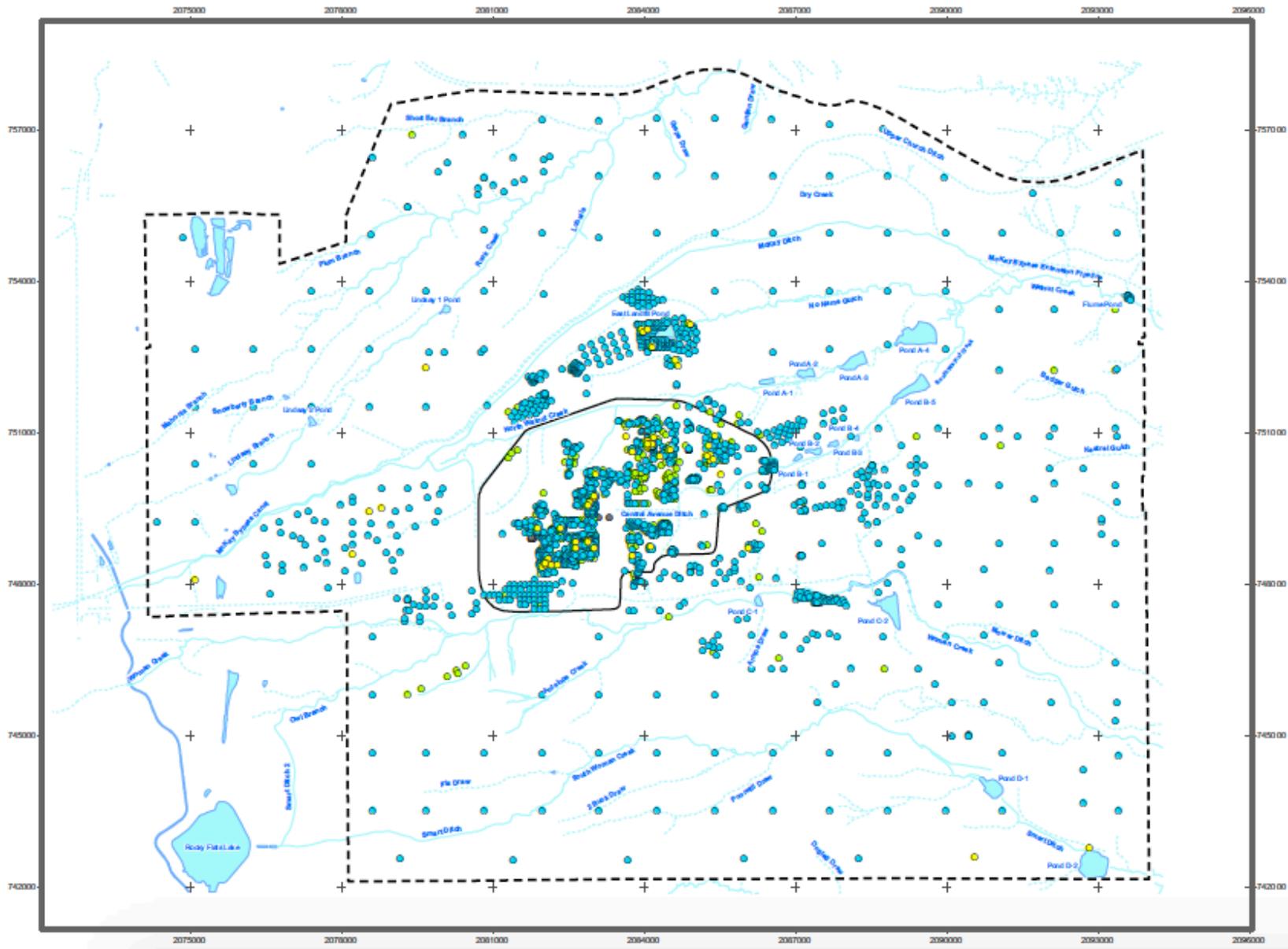


Figure 3.7
Arsenic
Concentrations in
Surface Soil

KEY

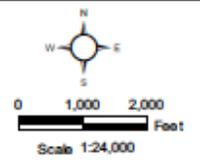
- > Background M2SD
- >= WRW PRG and <= Background M2SD
- Detected and < WRW PRG
- Not detected

Minimum nondetect reported value = 0.4 mg/kg
 Maximum nondetect reported value = 6.2 mg/kg
 Background M2SD = 10.1 mg/kg
 WRW PRG = 2.41 mg/kg

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



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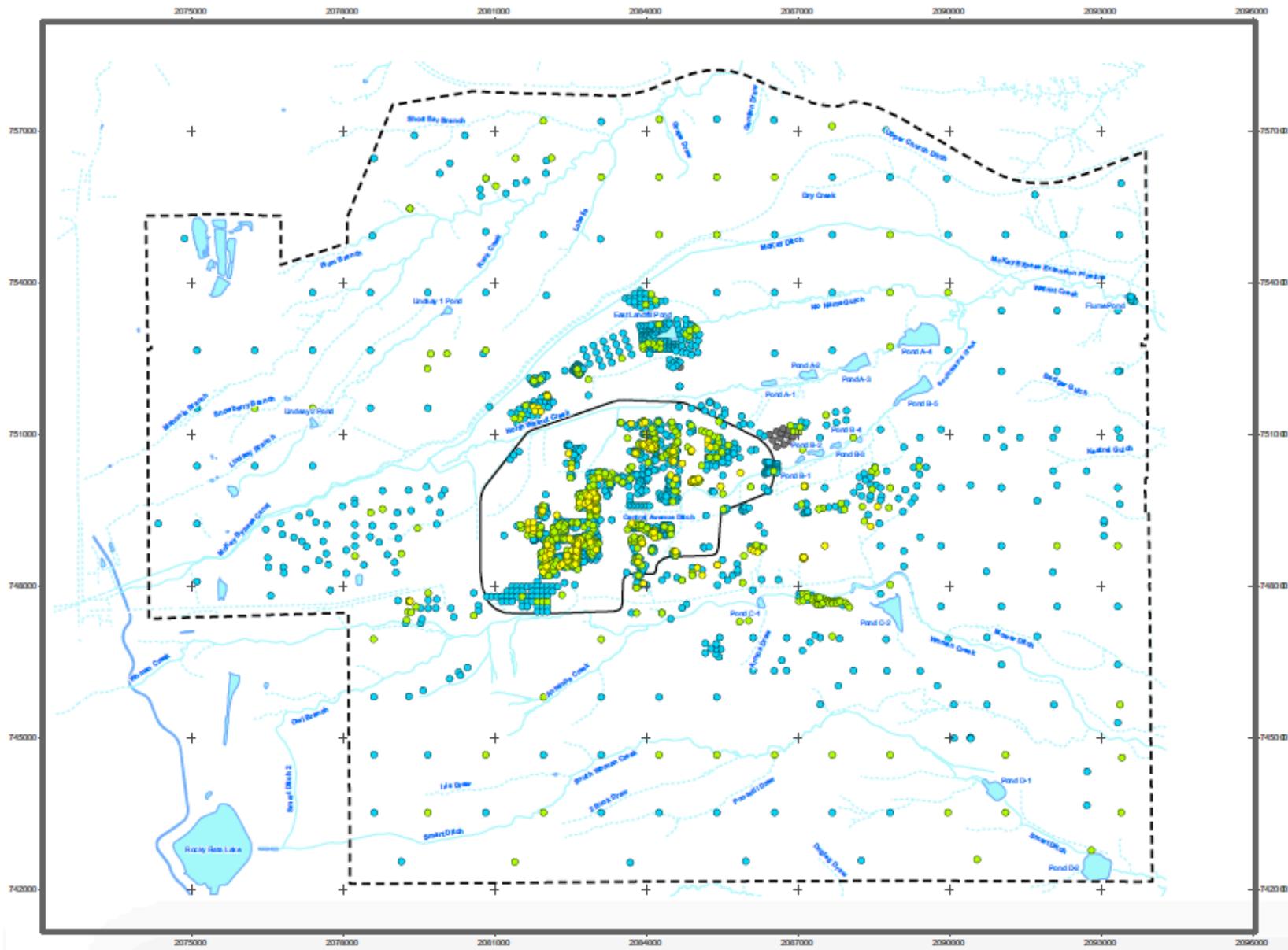


Figure 3.8
Chromium (total)
Concentrations in
Surface Soil

KEY

- \geq WRW PRG
- $>$ Background M2SD and $<$ WRW PRG
- Detected and \leq Background M2SD
- Not detected

Minimum nondetected reported value = 2.2 mg/kg
 Maximum nondetected reported value = 19.8 mg/kg
 Background M2SD = 16.8 mg/kg
 WRW PRG = 28.4 mg/kg

Notes:
 - Data presented are the results from soil samples collected between 9/28/1991 and 8/22/2005.
 - Chromium (total) is conservatively compared to the chromium (VI) WRW PRG.
 - See Tables 3.1 and 3.13 for additional information.

Standard Map Features

- ▭ A OU boundary
- ▭ Pond
- ▬ Perennial stream
- ▬ Intermittent stream
- ▬ Ephemeral stream
- ▬ Site boundary



0 1,000 2,000
 Feet

Scale 1:24,000

State Plane Coordinate Projection
 Colorado Central Zone
 Datum: NAD 27

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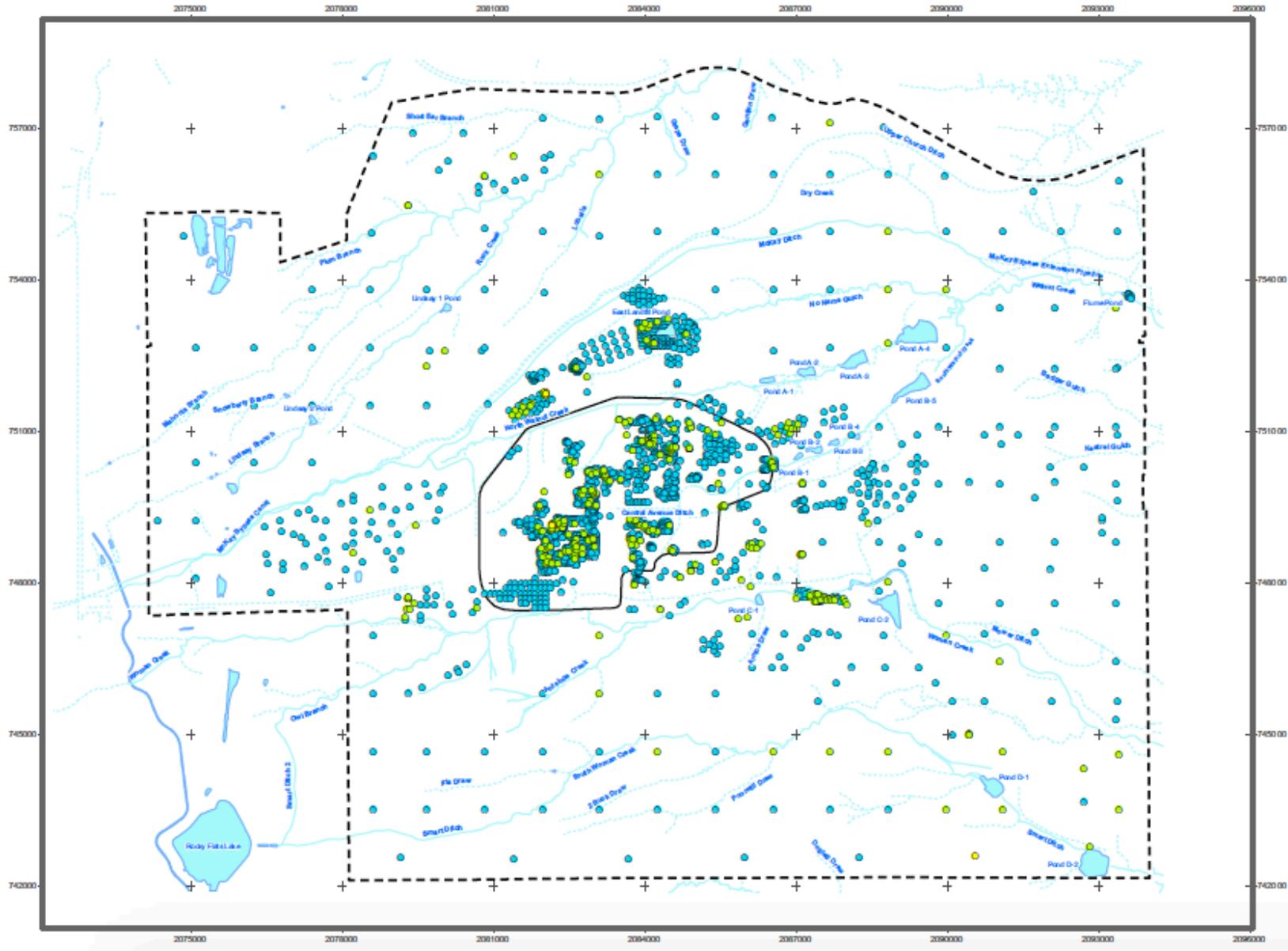


Figure 3.9
Vanadium Concentrations in
Surface Soil

KEY

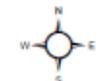
- S \geq WRW PRG
- S $>$ Background M2SD and $<$ WRW PRG
- S Detected and \leq Background M2SD
- S Not detected

Minimum nondetect reported value = null
 Maximum nondetect reported value = null
 Background M2SD = 43.1 mg/kg
 WRW PRG = 111 mg/kg

Notes:
 - Data presented are the results from soil samples collected between 6/28/1991 and 8/22/2005.
 - Nul values represent a frequency of detection at 100%.
 - See Tables 3.1 and 3.13 for additional information.

Standard Map Features

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



0 1,000 2,000
 Feet

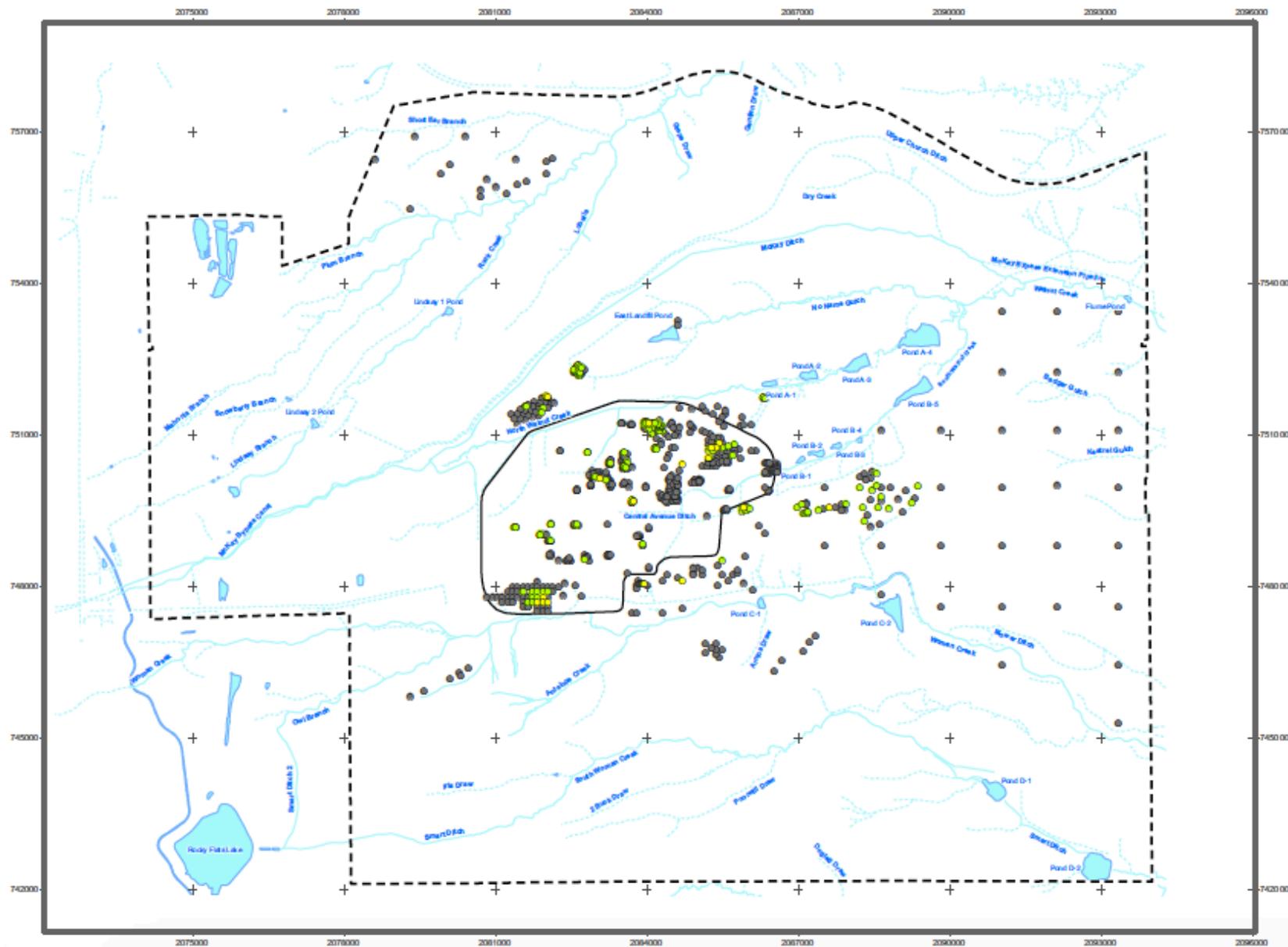
Scale 1:24,000

State Plane Coordinate Projection
 Colorado Central Zone
 Datum: NAD 27

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Figure 3.10
PCB-1254
Concentrations in
Surface Soil



KEY

- S \geq WRW PRG
- S Detected < WRW PRG
- S Not detected

Minimum nondetected reported value = 33.0 $\mu\text{g}/\text{kg}$
 Maximum nondetected reported value = 9,000 $\mu\text{g}/\text{kg}$
 Background MSD = NA
 WRW PRG = 1,349 $\mu\text{g}/\text{kg}$

Notes:
 - Data presented are the results from soil samples collected between 6/28/1991 and 8/22/2005.
 - PCBs are equivalent to Aroclors, for example PCB-1254 is the same as Aroclor-1254.
 - See Tables 3.1 and 3.13 for additional information.

Standard Map Features

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



0 1,000 2,000
 Feet

Scale 1:24,000

State Plane Coordinate Projection
 Colorado Central Zone
 Datum: NAD 27

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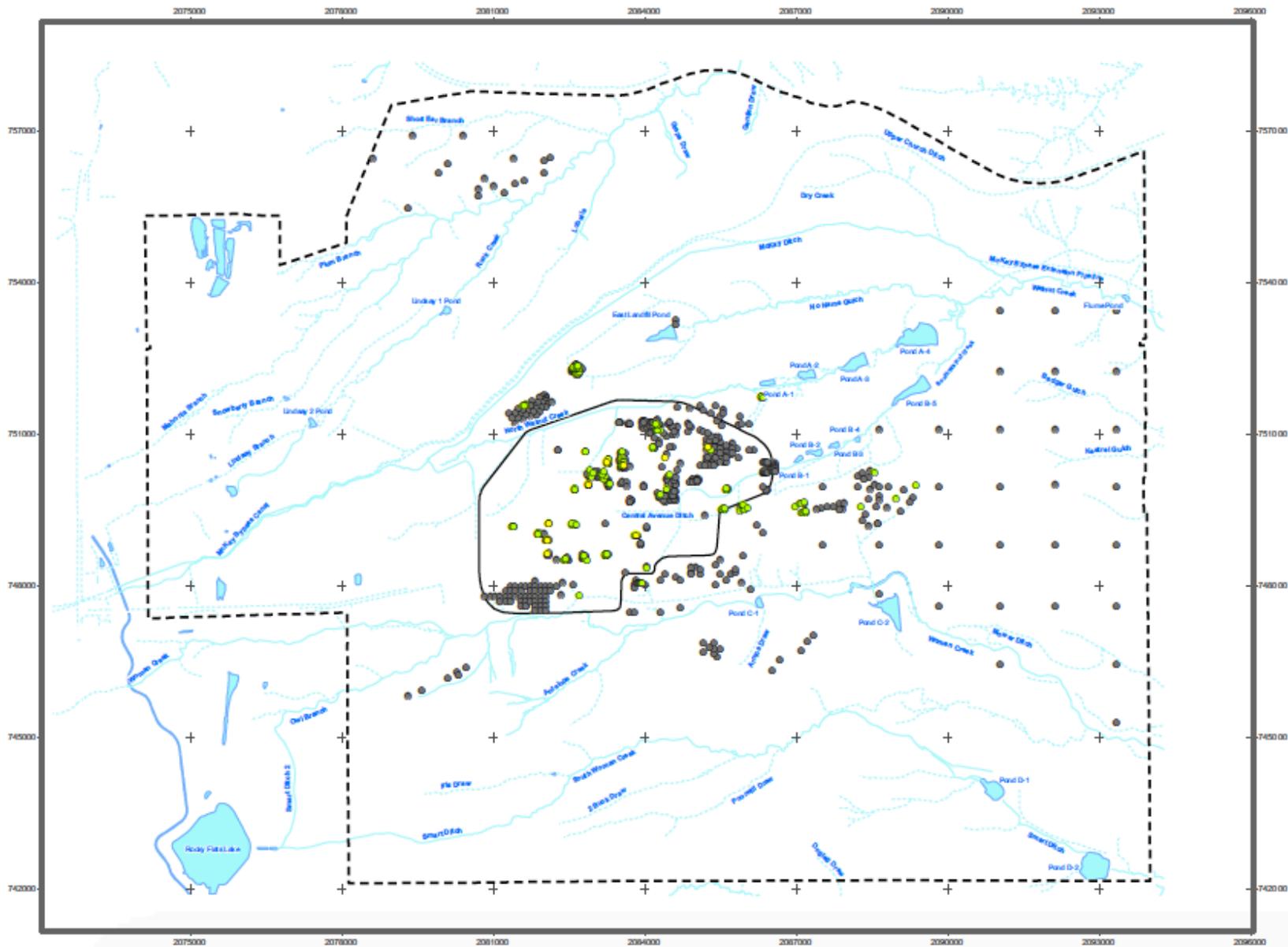


Figure 3.11
PCB-1260
Concentrations in
Surface Soil

KEY

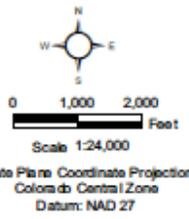
- \geq WRW PRG
- Detected < WRW PRG
- Not detected

Minimum nondetect reported value = 33.0 $\mu\text{g}/\text{kg}$
 Maximum nondetect reported value = 4,300 $\mu\text{g}/\text{kg}$
 Background MSD = NA
 WRW PRG = 1,349 $\mu\text{g}/\text{kg}$

Notes:
 - Data presented are the results from soil samples collected between 6/28/1991 and 8/22/2005.
 - PCBs are equivalent to Aroclors, for example PCB-1260 is the same as Aroclor-1260.
 - See Tables 3.1 and 3.13 for additional information.

Standard Map Features

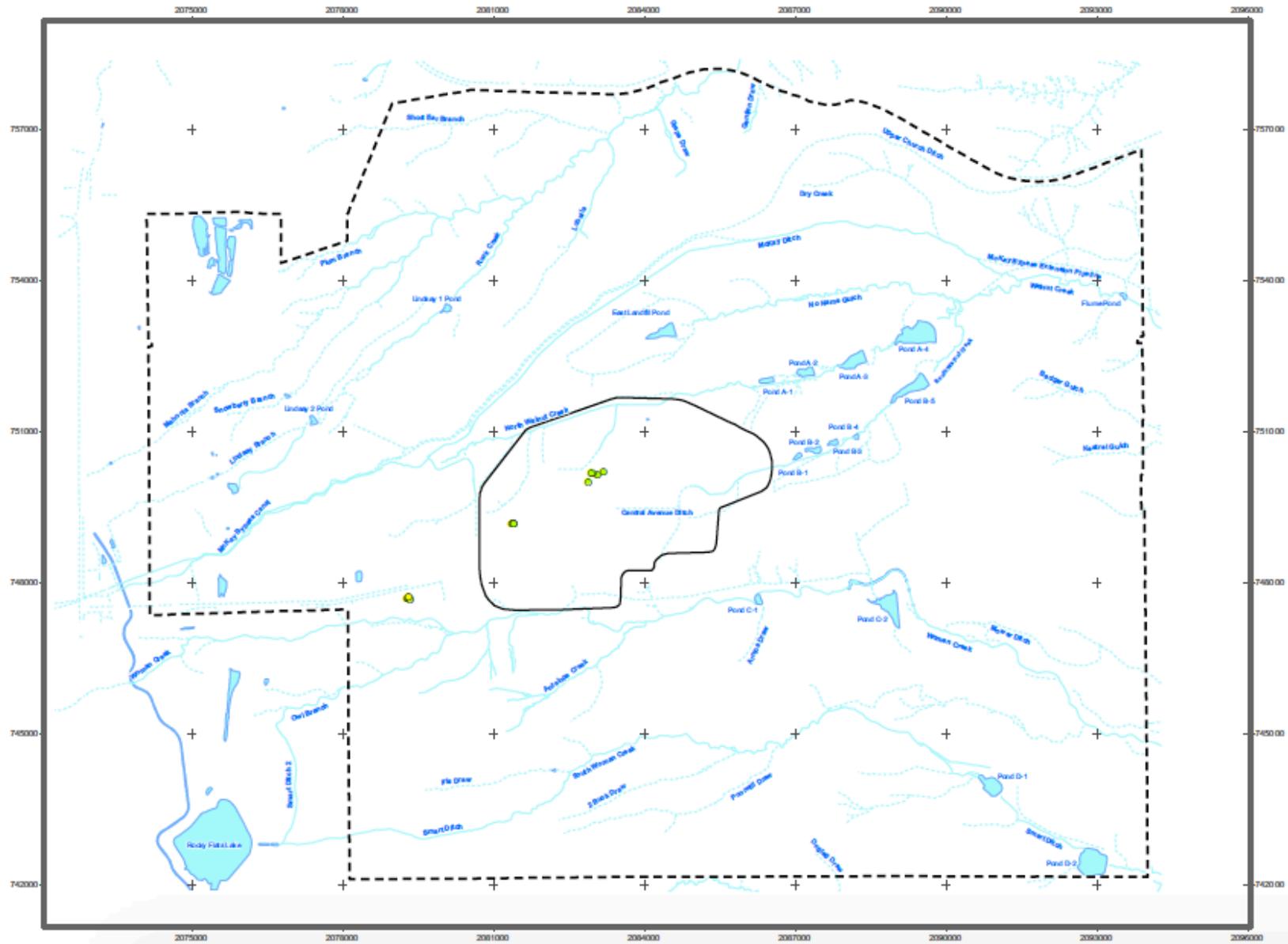
- A OU boundary
- Pond
- Perennial stream
- Intermittent stream
- Ephemeral stream
- Site boundary



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Figure 3.12
2,3,7,8-TCDD TEQ
Concentrations in
Surface Soil



KEY

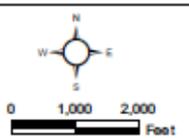
- >= WRW PRG
- Detected < WRW PRG
- Not detected

Minimum nondetect reported value = null
 Maximum nondetect reported value = null
 Background MSD = NA
 WRW PRG = 0.025 µg/g

Notes:
 - Data presented are the results from soil samples collected between 6/29/1991 and 8/22/2005.
 - Nil values represent a frequency of detection at 100%.
 - 2,3,7,8-TCDD TEQ is a calculated value that represents an equivalent 2,3,7,8-TCDD concentration based on the total concentration of 17 dioxin congeners.
 - See Tables 3.1 and 3.13 for additional information.

Standard Map Features

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



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 Datum: NAD 27

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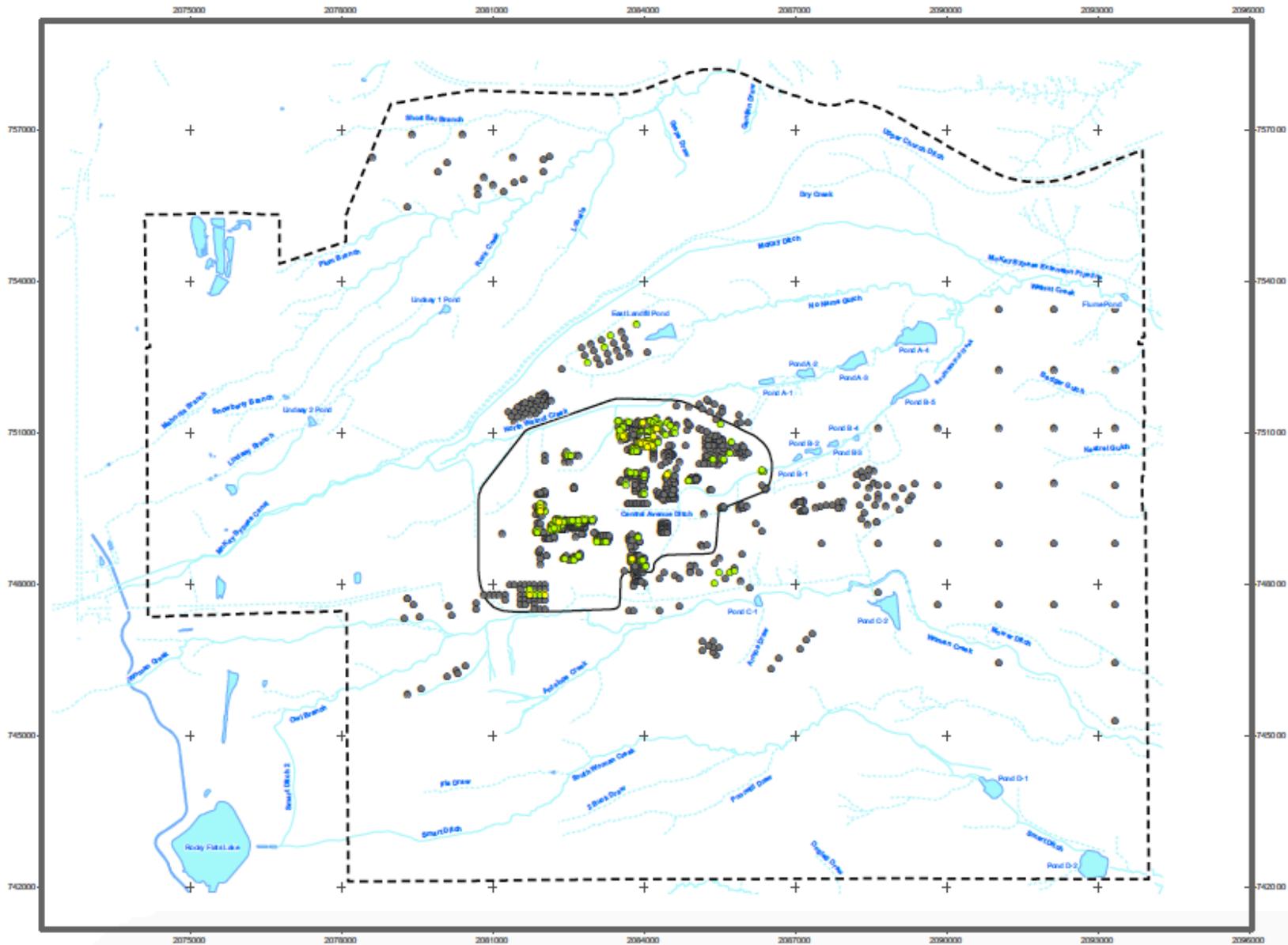


Figure 3.14
Dibenz(a,h)anthracene
Concentrations in
Surface Soil

KEY

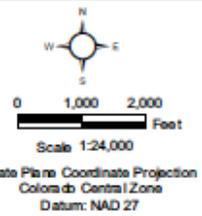
- \geq RWPRG
- Detected < RWPRG
- Not detected

Minimum nondetect reported value = 21.0 µg/kg
 Maximum nondetect reported value = 7,000 µg/kg
 Background MSD = NA
 RWPRG = 379 µg/kg

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

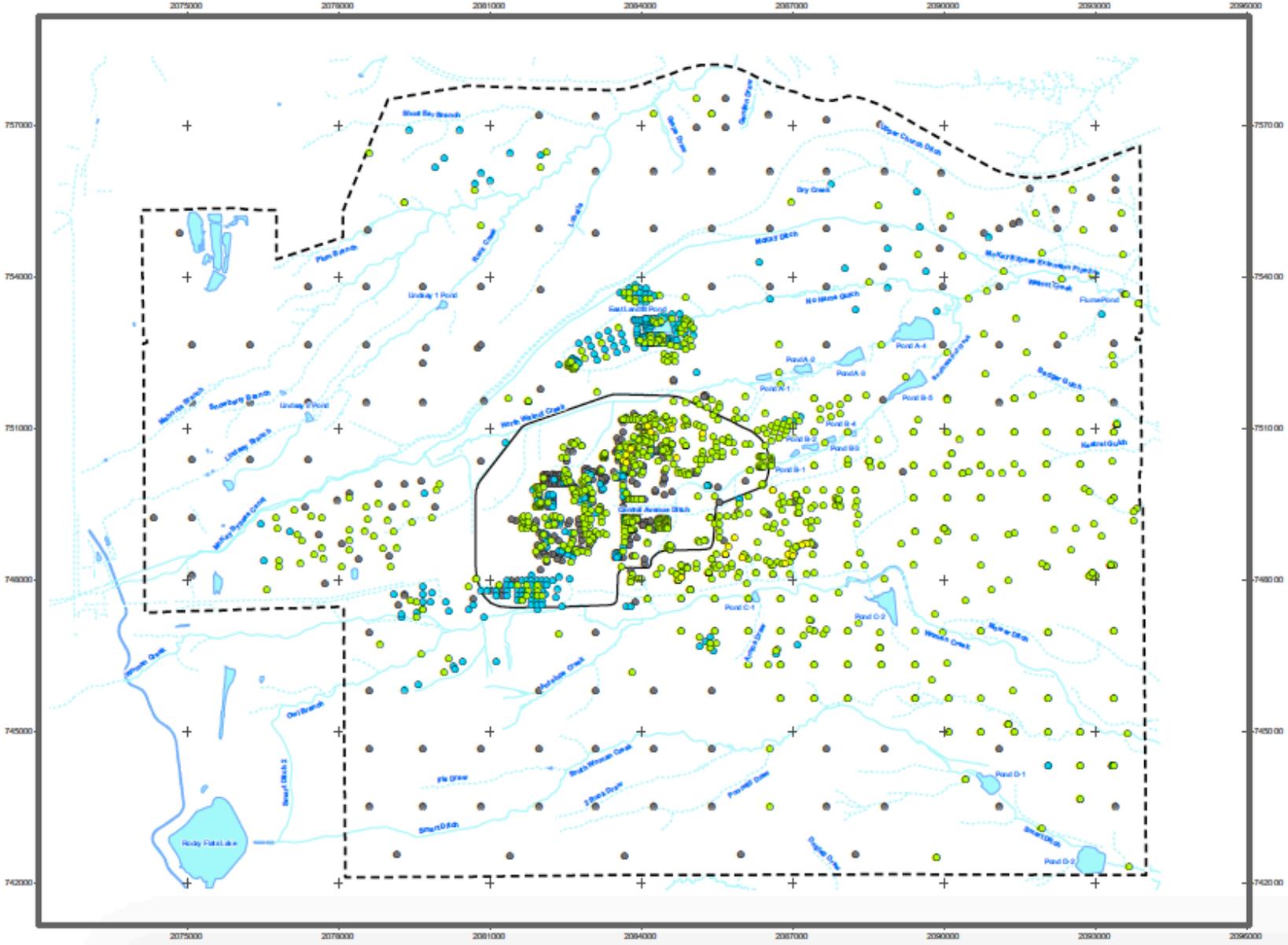
- AOC boundary
- Pond
- Perennial stream
- Intermittent stream
- Ephemeral stream
- Site boundary



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Figure 3.15
Americium-241
Activity in
Surface Soil



KEY

- \geq 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 = 7.89 pCi/g

Notes:
 - Data presented are the results from soil samples collected between 6/29/1991 and 8/22/2005.
 - See Tables 3.1 and 3.13 for additional information.

Standard Map Features

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



0 1,000 2,000
 Feet
 Scale 1:24,000

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 Colorado Central Zone
 Datum: NAD 27

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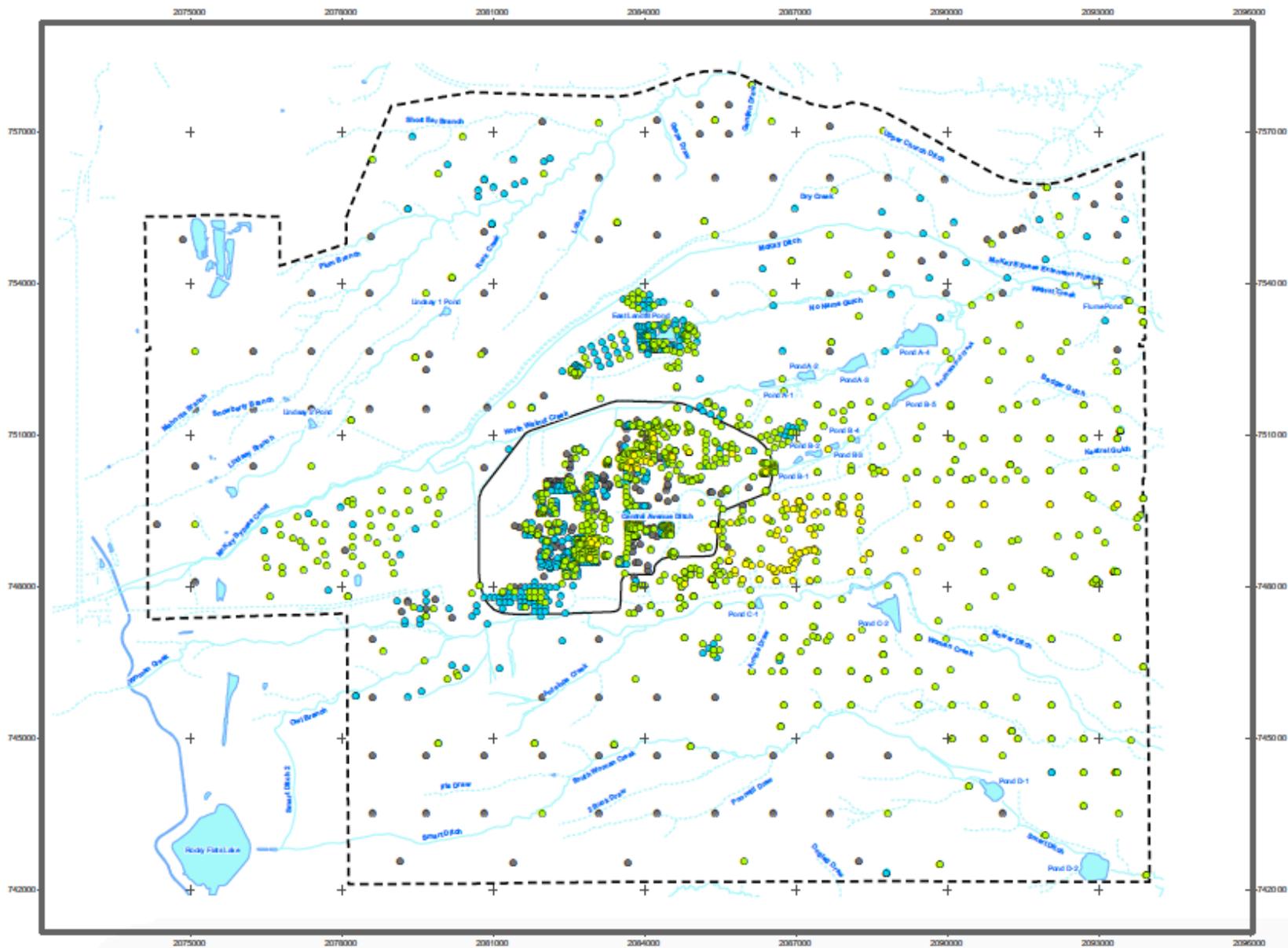


Figure 3.16
Plutonium-239/240
Activity in
Surface Soil

KEY

- > Background M2SD and < WRW PRG
- > 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 9/28/1991 and 8/22/2005.
 - See Tables 3.1 and 3.13 for additional information.

Standard Map Features

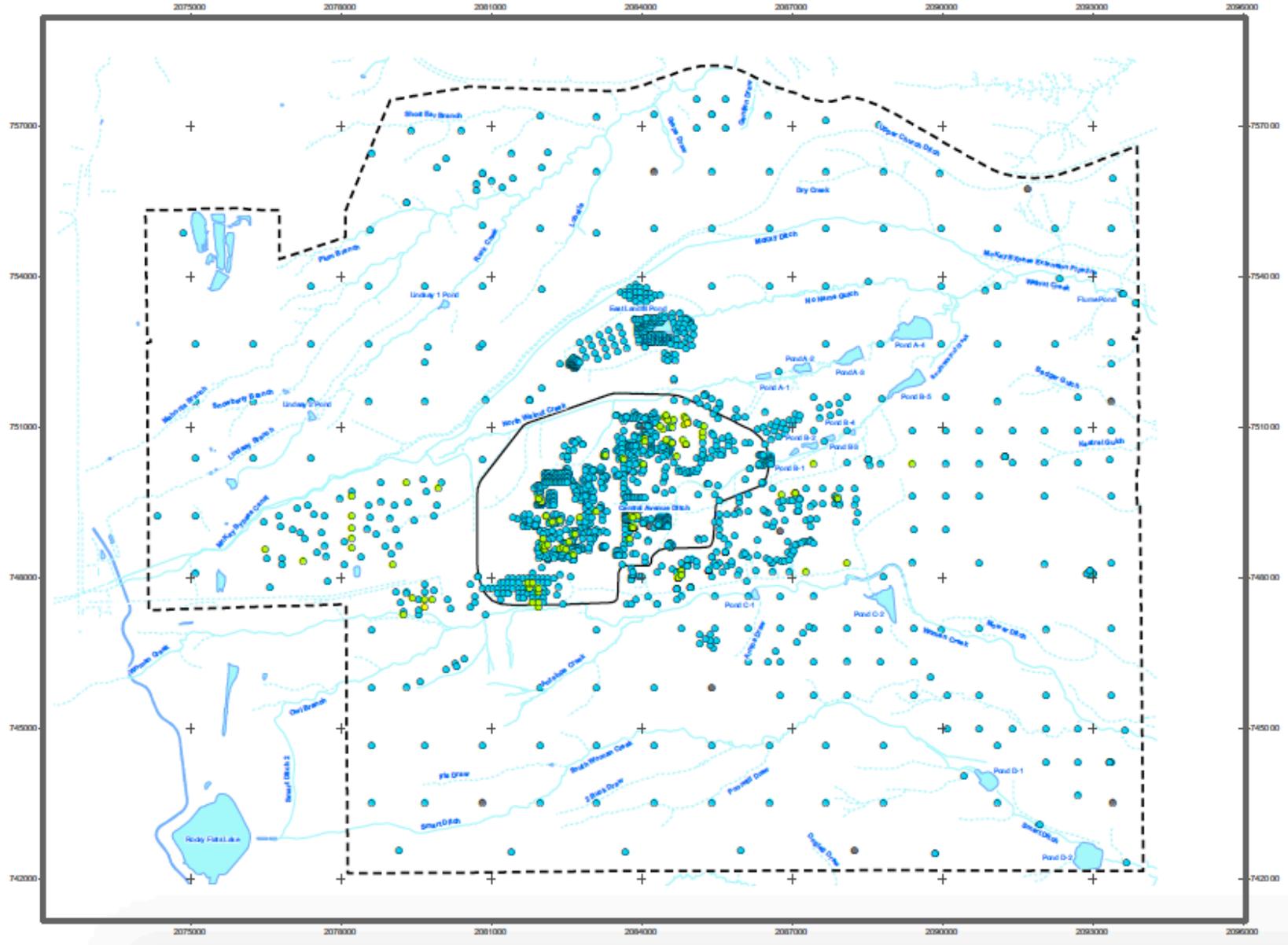
- A OU boundary
- Pond
- Perennial stream
- Intermittent stream
- Ephemeral stream
- Site boundary

N
 W — O — E
 S

0 1,000 2,000
 Feet

Scale 1:24,000
 State Plane Coordinate Projection
 Colorado Central Zone
 Datum: NAD 27

Figure 3.17
Uranium-233/234
Activity in
Surface Soil



KEY

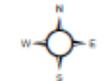
- \geq WRW PRG
- $>$ Background M2SD and $<$ WRW PRG
- Detected and \leq Background M2SD
- Not detected

Minimum nondetect reported value = 0.082 pCi/g
 Maximum nondetect reported value = 1.58 pCi/g
 Background M2SD = 2.25 pCi/g
 WRW PRG = 25.3 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

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



0 1,000 2,000
 Feet

Scale: 1:24,000

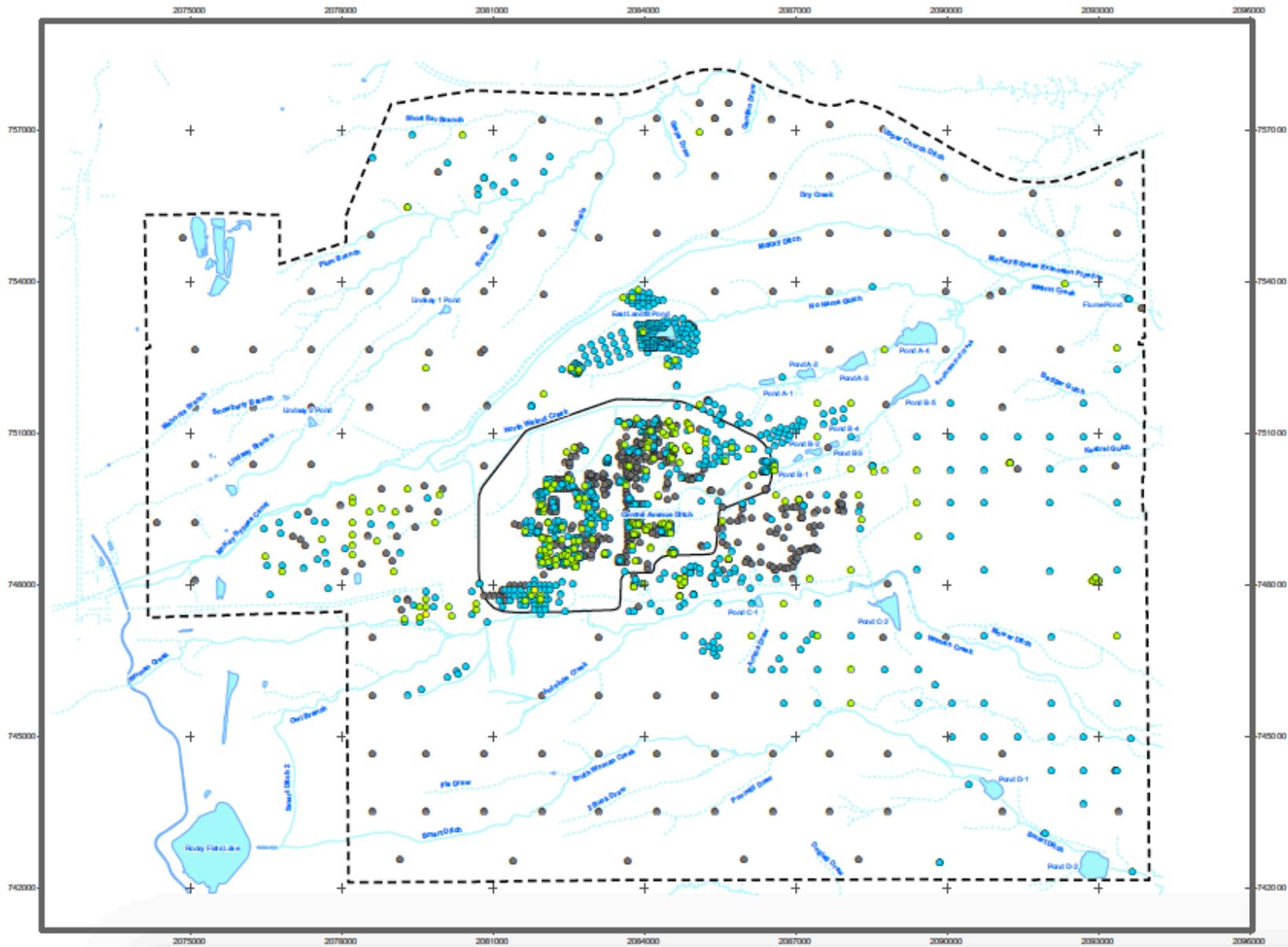
State Plane Coordinate Projection
 Colorado Central Zone
 Datum: NAD 27

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W:\Project\FY2005RPTS_Fig3ac05

Figure 3.18
Uranium-235
Activity in
Surface Soil



KEY

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

Minimum nondetect reported value = 0.138 pCi/g
 Maximum nondetect reported value = 0.465 pCi/g
 Background M2SD = 0.005 pCi/g
 WRW PRG = 1.05 pCi/g

Notes:
 - Data presented are the results from soil samples collected between 9/29/1991 and 8/22/2005.
 - See Tables 3.1 and 3.13 for additional information.

Standard Map Features

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



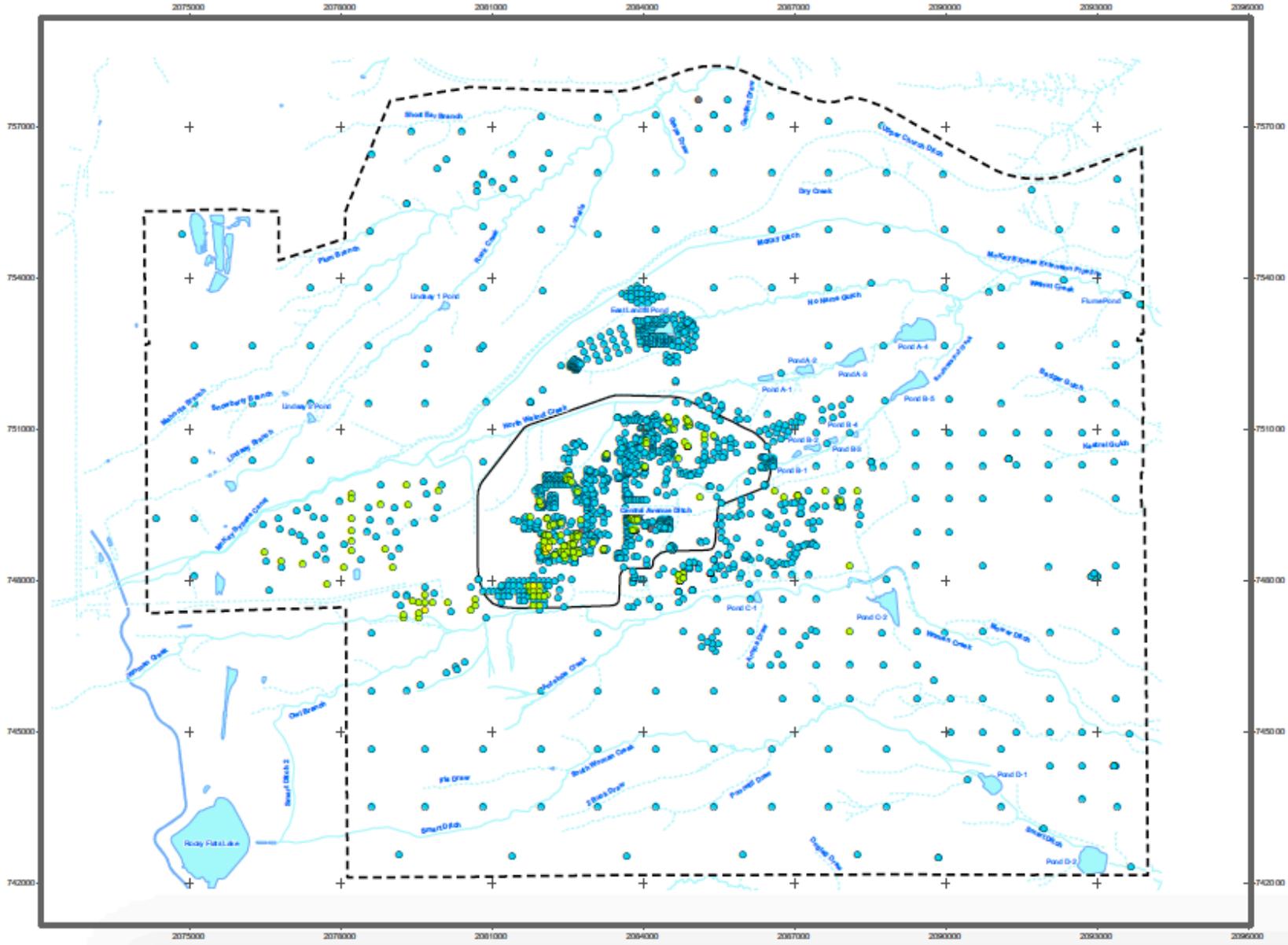
0 1,000 2,000
 Feet
 Scale 1:24,000

State Plane Coordinate Projection
 Colorado Central Zone
 Datum: NAD 27

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Figure 3.19
Uranium-238
Activity in
Surface Soil



KEY

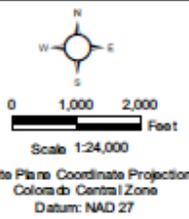
- \geq WRW PRG
- $>$ Background M2SD and $<$ WRW PRG
- Detected and \leq Background M2SD
- Not detected

Minimum nondetect reported value = 0.182 pCi/g
 Maximum nondetect reported value = 1.16 pCi/g
 Background M2SD = 2 pCi/g
 WRW PRG = 29.3 pCi/g

Notes:
 - Data presented are the results from soil samples collected between 9/29/1991 and 8/22/2005.
 - See Tables 3.1 and 3.13 for additional information.

Standard Map Features

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



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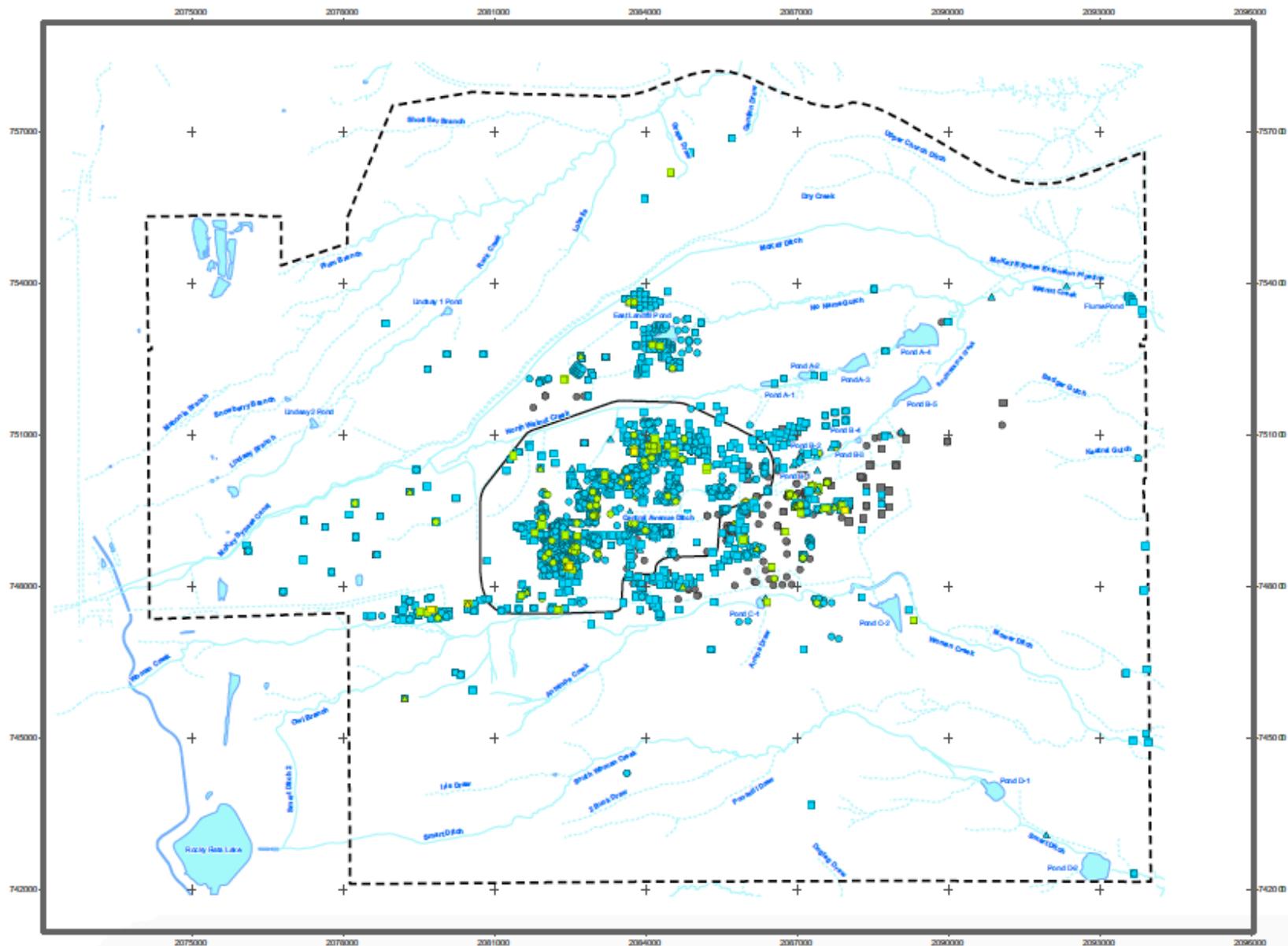


Figure 3.20
Chromium (total)
Concentrations in
Subsurface Soil
(0.5 - 3 ft, 3 - 8 ft, and 8 - 12 ft)

KEY

- Sample collected > 0.5 ft and <= 3 ft
- Sample collected > 3ft and <= 8 ft
- △ Sample collected > 8 ft and <= 12 ft
- >= WRW PRG
- > Background M2SD < WRW PRG
- Detected and <= Background M2SD
- Not detected

Minimum nondetected reported value = 0.43 mg/kg
 Maximum nondetected reported value = 15.5 mg/kg
 Background M2SD = 42.2 mg/kg
 WRW PRG = 327 mg/kg

Notes:

- Data presented are the results from soil samples collected between 6/29/1991 and 8/22/2005.
- Chromium (total) is conservatively compared to the chromium (VI) WRW PRG.
- See Tables 3.17 and 3.19 for additional information.

Standard Map Features

- 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

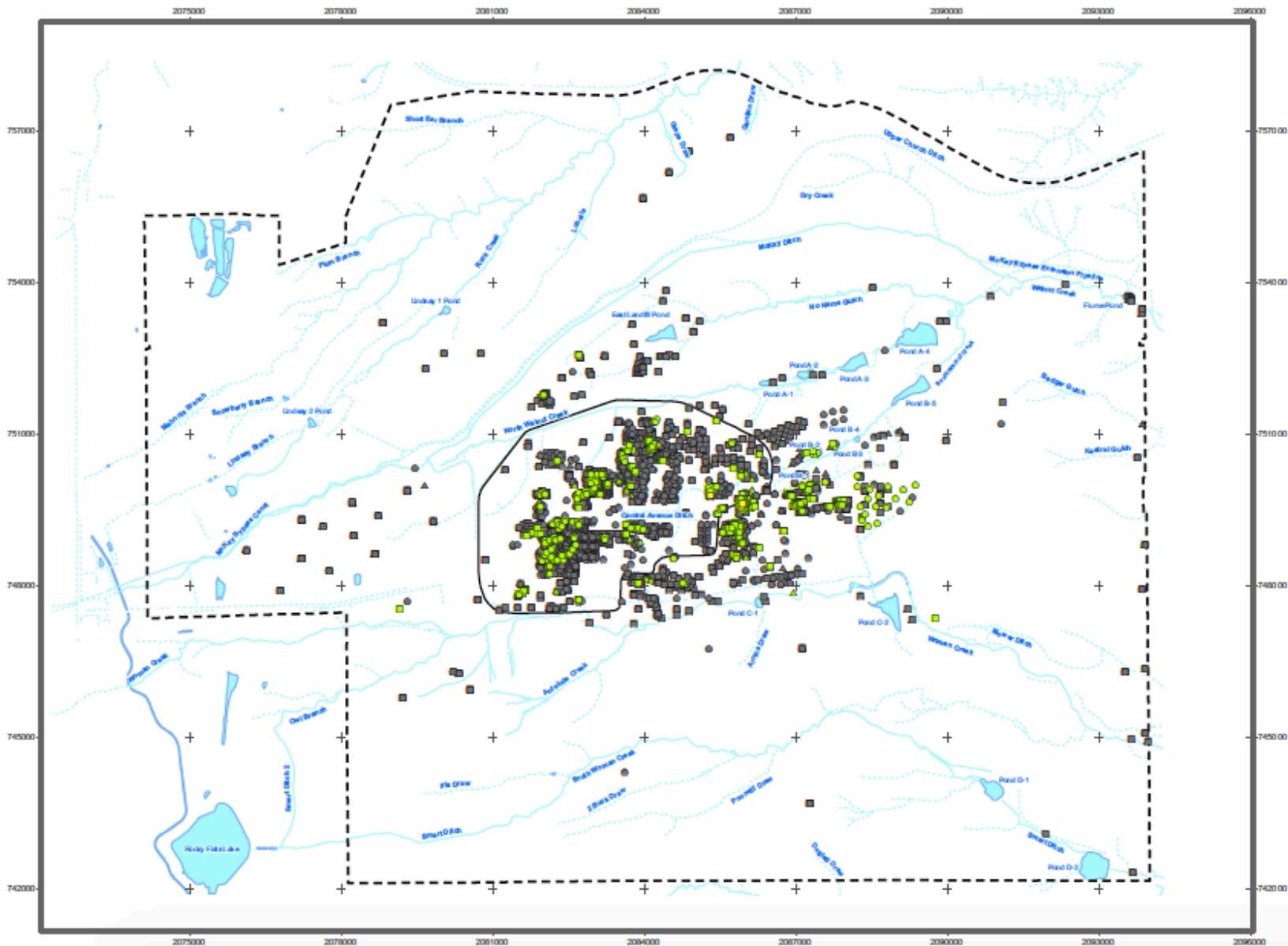


Figure 3.23
Tetrachloroethene
Concentrations in
Subsurface Soil
(0.5 - 3 ft, 3 - 8 ft, and 8 - 12 ft)

KEY

- S Sample collected > 0.5 ft and <= 3 ft
- Sample collected > 3ft and <= 8 ft
- △ Sample collected > 8 ft and <= 12 ft
- Yellow S >= WRW PRG
- Grey S Detected and < WRW PRG
- Black S Not detected

Minimum nondetect reported value = 0.043 µg/kg
 Maximum nondetect reported value = 1,300 µg/kg
 Background MSD = NA
 WRW PRG = 77,111 µg/kg

Notes:
 - Data presented are the results from soil samples collected between 6/29/1991 and 8/22/2005.
 - See Tables 3.17 and 3.19 for additional information.

Standard Map Features

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



0 1,000 2,000
 Feet

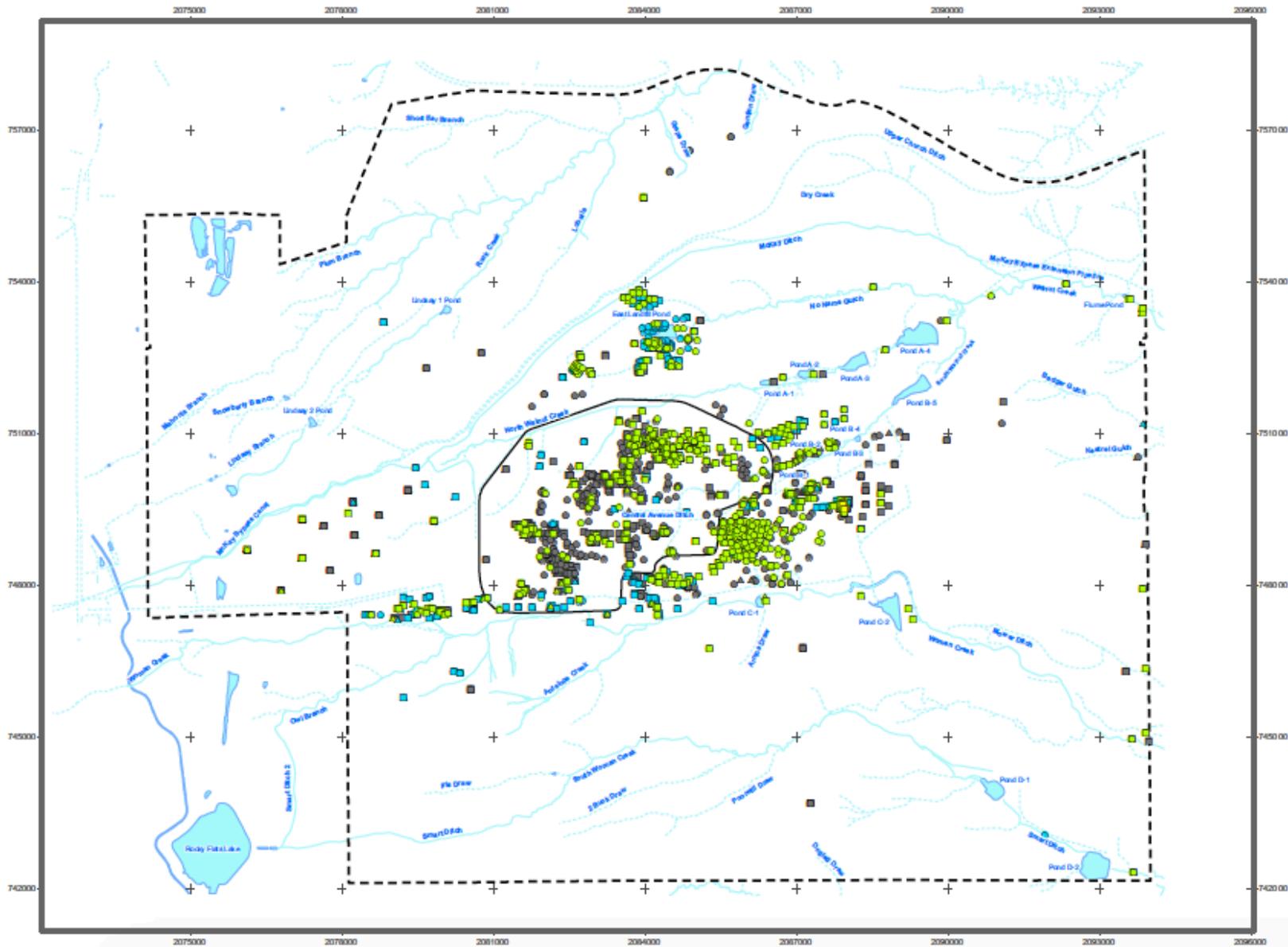
Scale 1:24,000

State Plane Coordinate Projection
 Colorado Central Zone
 Datum: NAD 27

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Figure 3.24
Americium-241
Activity in
Subsurface Soil
(0.5 - 3 ft, 3 - 8 ft, and 8 - 12 ft)



KEY

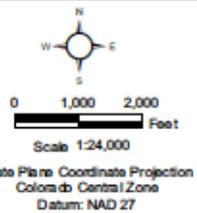
- S Sample collected > 0.5 ft and <= 3 ft
- Sample collected > 3ft and <= 8 ft
- △ Sample collected > 8 ft and <= 12 ft
- Yellow S >= WRW PRG
- Green S > Background M2SD < WRW PRG
- Grey S Detected and <= Background M2SD
- White S Not detected

Minimum nondetect reported value = 4.16 pCi/g
 Maximum nondetect reported value = 28.3 pCi/g
 Background M2SD = 0.01 pCi/g
 WRW PRG = 88.4 pCi/g

- Notes:**
- Data presented are the results from soil samples collected between 8/28/1991 and 8/22/2005.
 - See Table 3.17 for additional information.

Standard Map Features

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



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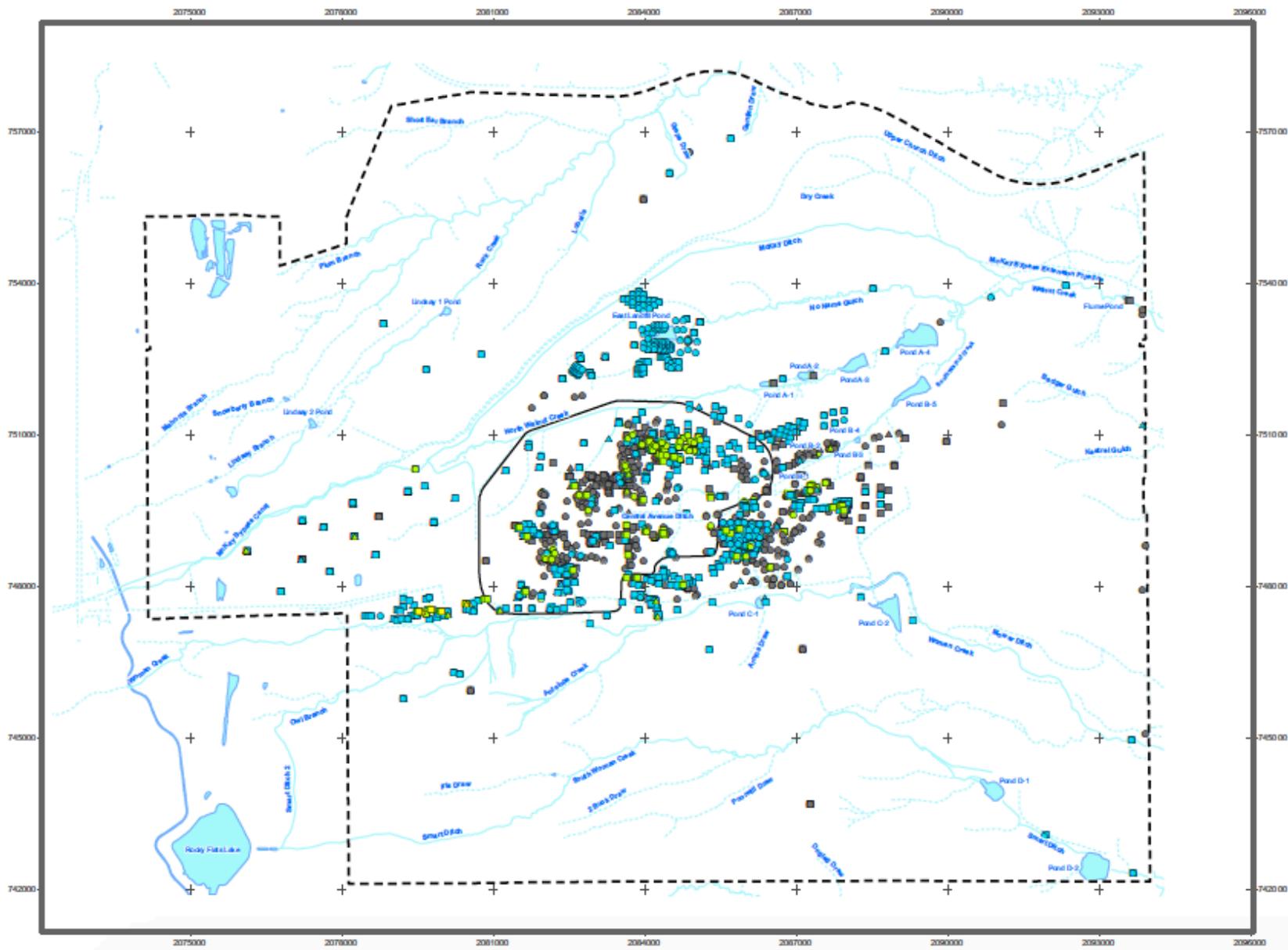


Figure 3.26
Uranium-235
Activity in
Subsurface Soil
(0.5 - 3 ft, 3 - 8 ft, and 8 - 12 ft)

KEY

S Sample collected > 0.5 ft and <= 3 ft
 □ Sample collected > 3ft and <= 8 ft
 △ Sample collected > 8 ft and <= 12 ft

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

Minimum nondetect reported value = 0.015 pCi/g
 Maximum nondetect reported value = 1.08 pCi/g
 Background M2SD = 0.162 pCi/g
 WRW PRG = 12.1 pCi/g

Notes:
 - Data presented are the results from soil samples collected between 6/29/1991 and 8/22/2005.
 - See Tables 3.17 and 3.19 for additional information.

Standard Map Features

□ AOU boundary
 ■ Pond
 — Perennial stream
 - - - Intermittent stream
 - - - Ephemeral stream
 - - - Site boundary

Scale 1:24,000
 State Plane Coordinate Projection
 Colorado Central Zone
 Datum: NAD 27

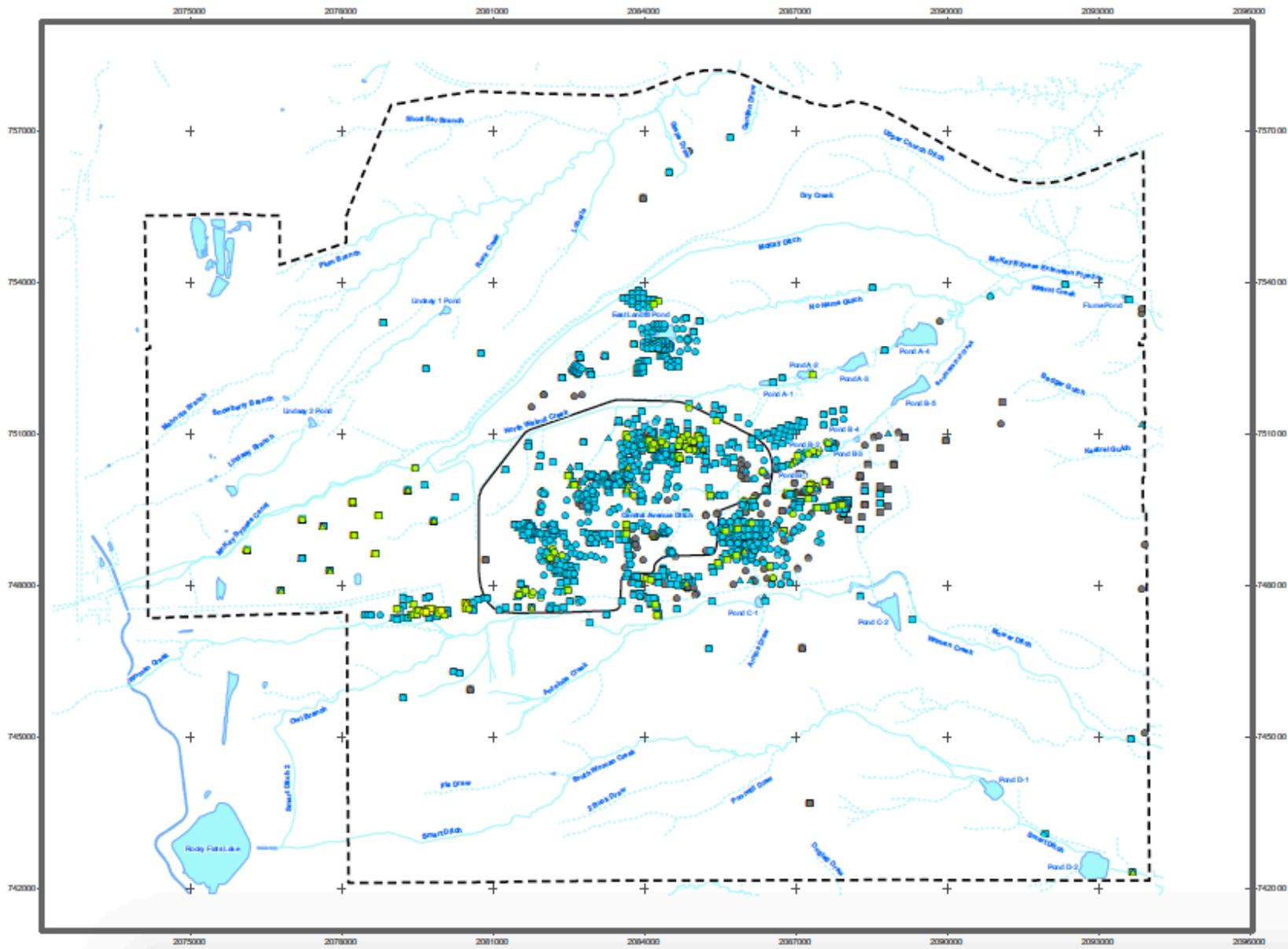


Figure 3.27
Uranium-238
Activity in
Subsurface Soil
(0.5 - 3 ft, 3 - 8 ft, and 8 - 12 ft)

KEY

- S Sample collected > 0.5 ft and <= 3 ft
 - Sample collected > 3ft and <= 8 ft
 - △ Sample collected > 8 ft and <= 12 ft
 - S >= WRW PRG
 - > Background M2SD < WRW PRG
 - Detected and <= Background M2SD
 - S Not detected
- Minimum nondetect reported value = 0.028 pCi/g
 Maximum nondetect reported value = 0.945 pCi/g
 Background M2SD = 1.77 pCi/g
 WRW PRG = 337 pCi/g

Notes:
 - Data presented are the results from soil samples collected between 6/28/1991 and 8/22/2005.
 - See Tables 3.17 and 3.19 for additional information.

Standard Map Features

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

N
 W — O — E
 S

0 1,000 2,000
 Feet

Scale 1:24,000
 State Plane Coordinate Projection
 Colorado Central Zone
 Datum: NAD 27

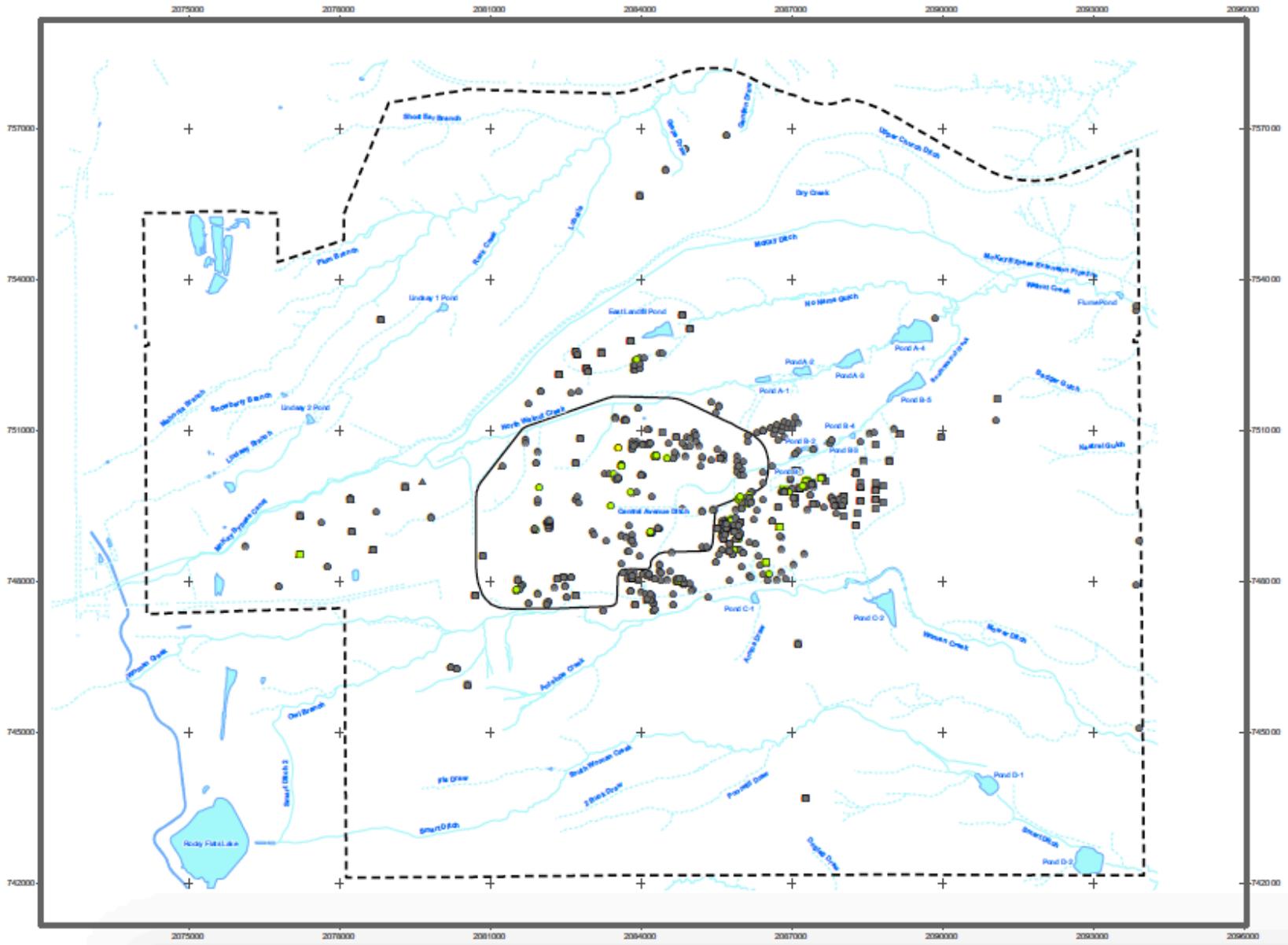


Figure 3.28
PCB-1260
Concentrations in
Subsurface Soil
(12 - 30 ft, 30 - 50 ft, and >50 ft)

KEY

- S Sample collected > 12 ft and <= 30 ft
- Sample collected > 30 ft and <= 50 ft
- △ Sample collected > 50 ft
- Yellow S >> WRW PRG
- Green S Detected and < WRW PRG
- Grey S Not detected

Minimum nondetect reported value = 17.0 µg/kg
 Maximum nondetect reported value = 1,000 µg/kg
 Background MSD = NA
 WRW PRG = 15,514 µg/kg

- Notes:**
- Data presented are the results from soil samples collected between 8/28/1991 and 8/22/2005.
 - PCBs are equivalent to Aroclors, for example PCB-1260 is the same as Aroclor-1260.
 - See Table 3.21 for additional information.

Standard Map Features

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



0 1,000 2,000
 Feet
 Scale 1:24,000

State Plane Coordinate Projection
 Colorado Central Zone
 Datum: NAD 27

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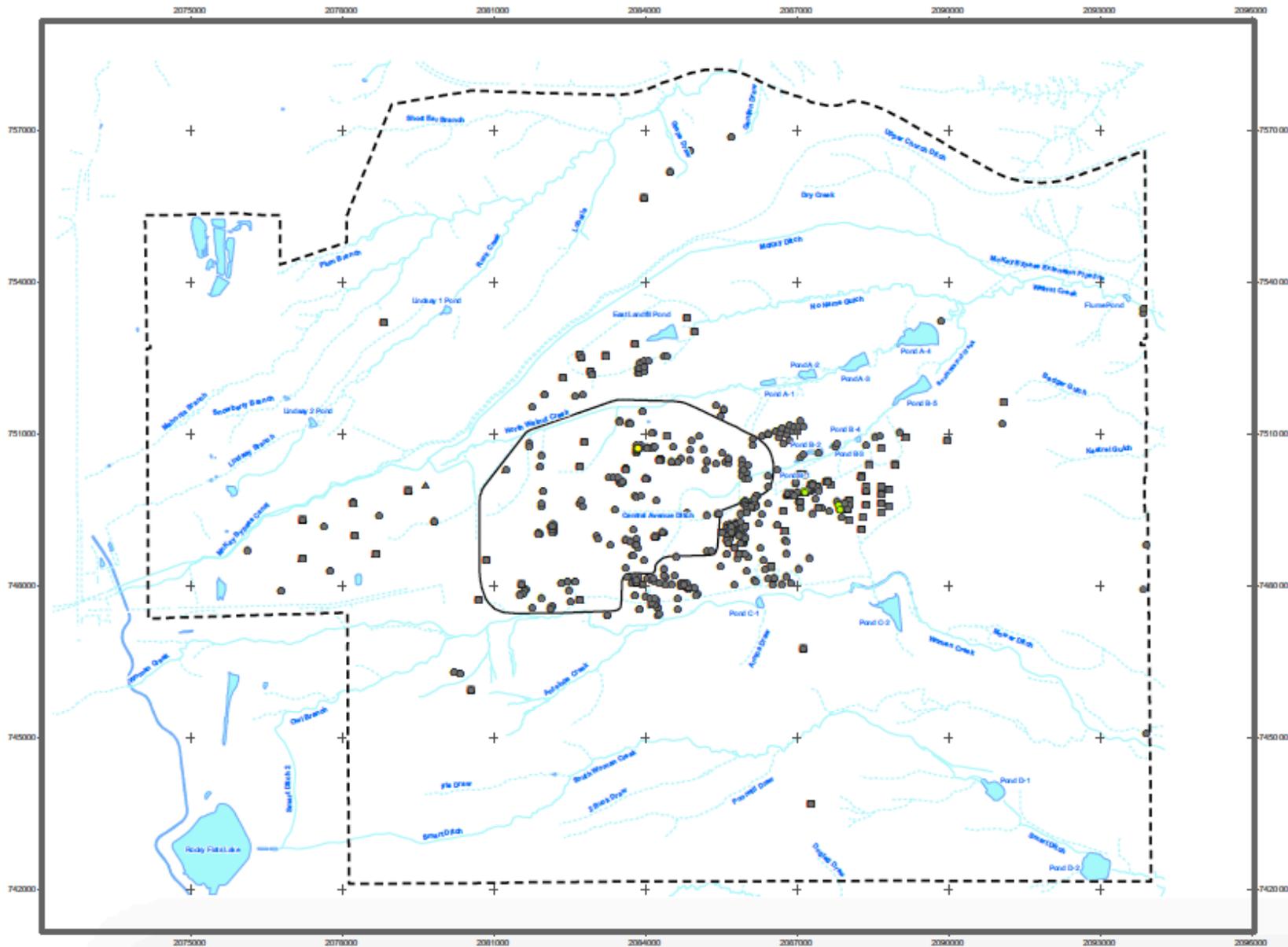


Figure 3.29
1,1,2-Tetrachloroethane
Concentrations in
Subsurface Soil
(12 - 30 ft, 30 - 50 ft, and >50 ft)

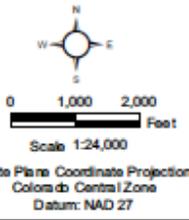
KEY

- S Sample collected > 12 ft and <= 30 ft
 - Sample collected > 30 ft and <= 50 ft
 - △ Sample collected > 50 ft
 - S >= WRW PRG
 - S Detected and < WRW PRG
 - S Not detected
- Minimum nondetect reported value = 0.516 µg/kg
 Maximum nondetect reported value = 640,000 µg/kg
 Background MSD = NA
 WRW PRG = 120,551 µg/kg

Notes:
 - Data presented are the results from soil samples collected between 9/29/1991 and 8/22/2005.
 - See Table 3.21 for additional information.

Standard Map Features

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



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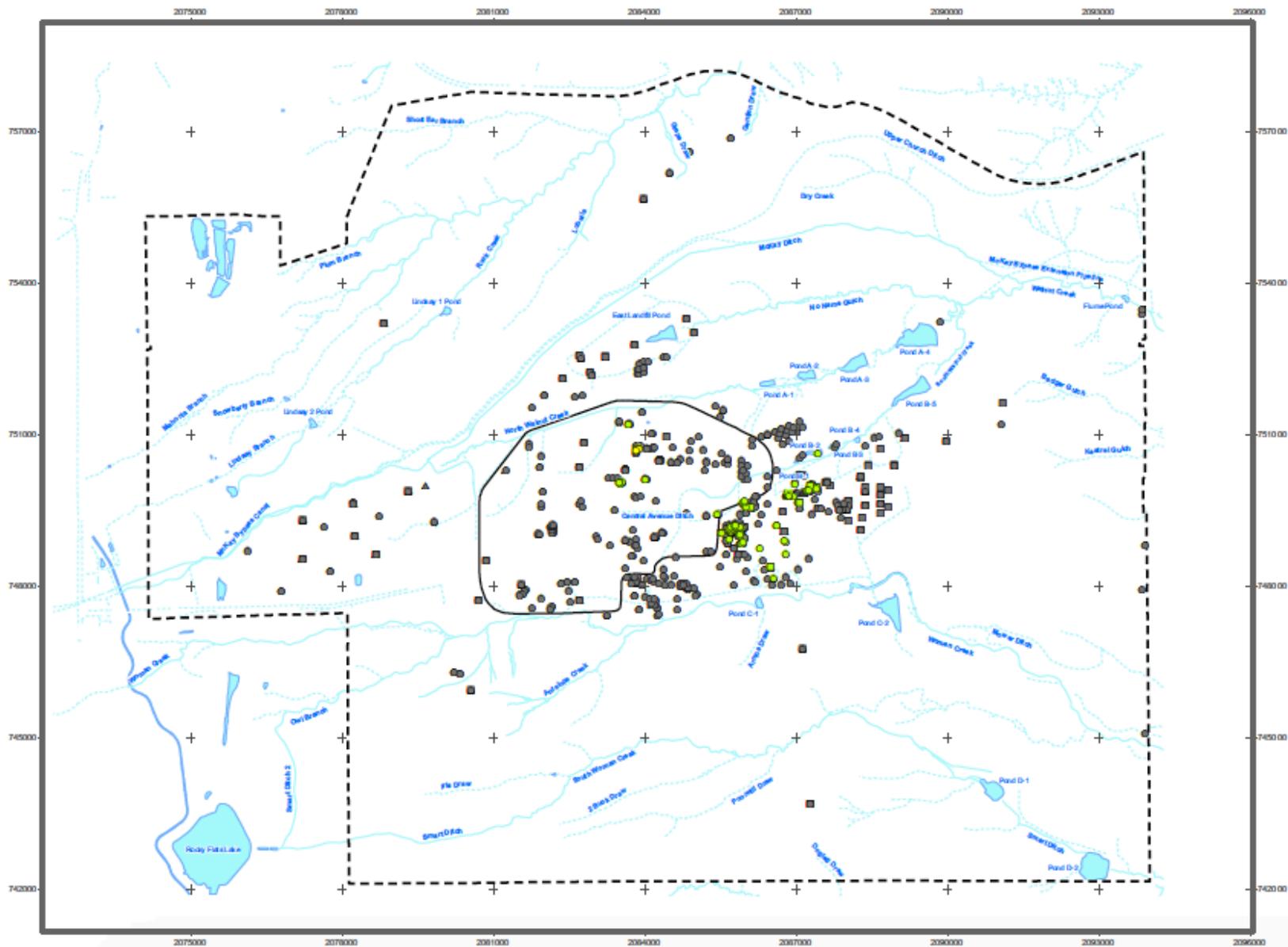


Figure 3.30
Carbon Tetrachloride
Concentrations in
Subsurface Soil
(12 - 30 ft, 30 - 50 ft, and >50 ft)

KEY

- S Sample collected > 12 ft and <= 30 ft
- Sample collected > 30 ft and <= 50 ft
- △ Sample collected > 50 ft
- S >= WRW PRG
- S Detected and < WRW PRG
- S Not detected

Minimum nondetect reported value = 0.843 µg/kg
 Maximum nondetect reported value = 53,290 µg/kg
 Background MSD = NA
 WRW PRG = 97,124 µg/kg

Notes:

- Data presented are the results from soil samples collected between 6/28/1991 and 8/22/2005.
- See Table 3.21 for additional information.

Standard Map Features

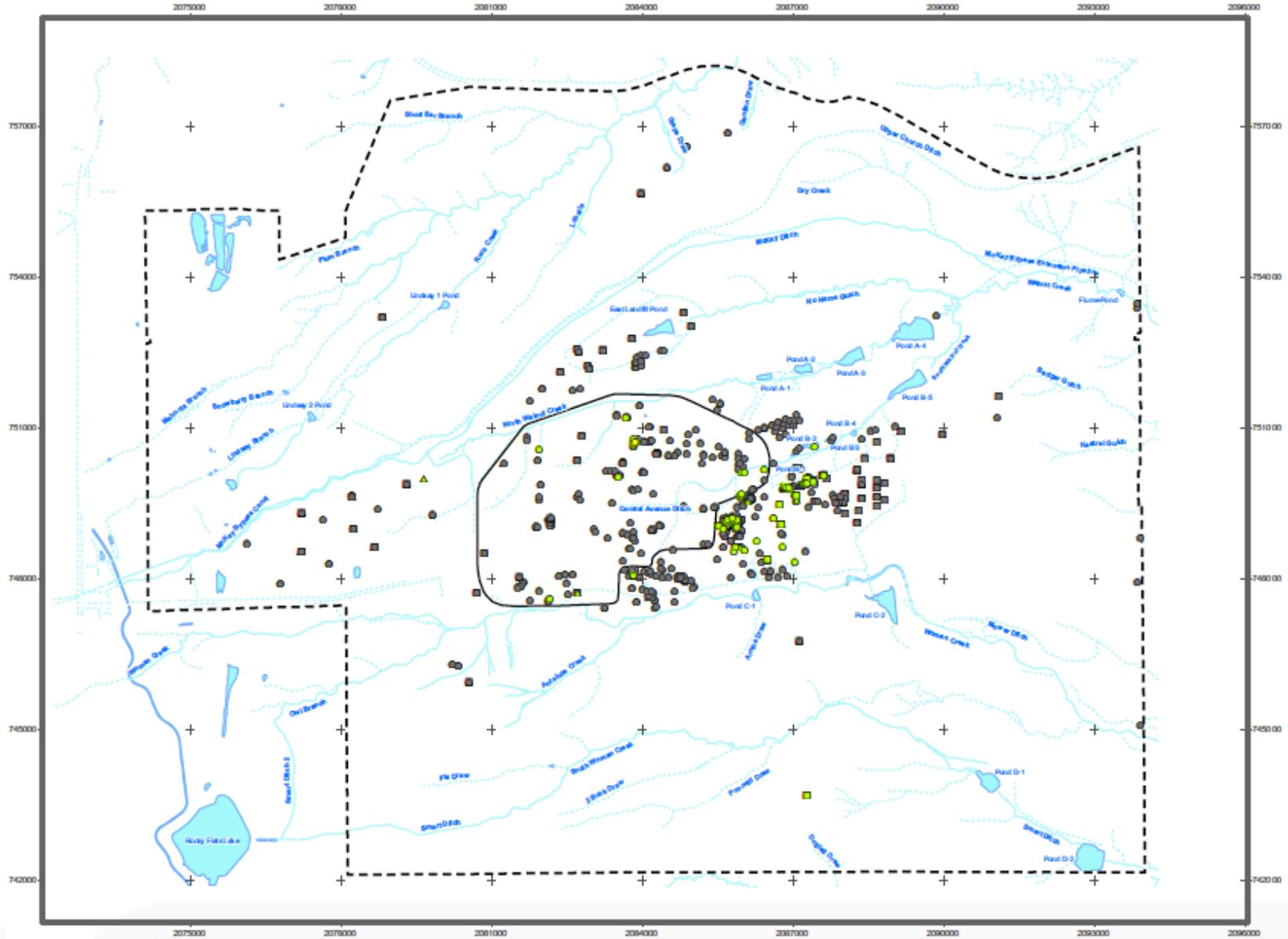
- AOU boundary
- Pond
- Perennial stream
- Intermittent stream
- Ephemeral stream
- Site boundary

North arrow and scale bar (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 3.31
Chloroform Concentrations in Subsurface Soil (12 - 30 ft, 30 - 50 ft, and >50 ft)



KEY

- S Sample collected > 12 ft and <= 30 ft
- Sample collected > 30 ft and <= 50 ft
- △ Sample collected > 50 ft

S >= WRW PRG
S Detected and < WRW PRG
S Not detected

Minimum nondetect reported value = 0.5 µg/kg
 Maximum nondetect reported value = 640,000 µg/kg
 Background MSD = NA
 WRW PRG = 90,270 µg/kg

Notes:
 - Data presented are the results from soil samples collected between 8/29/1991 and 8/22/2005.
 - See Table 3.21 for additional information.

Standard Map Features

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

0 1,000 2,000 Feet
 Scale 1:24,000
 State Plane Coordinate Projection
 Colorado Central Zone
 Datum: NAD 27

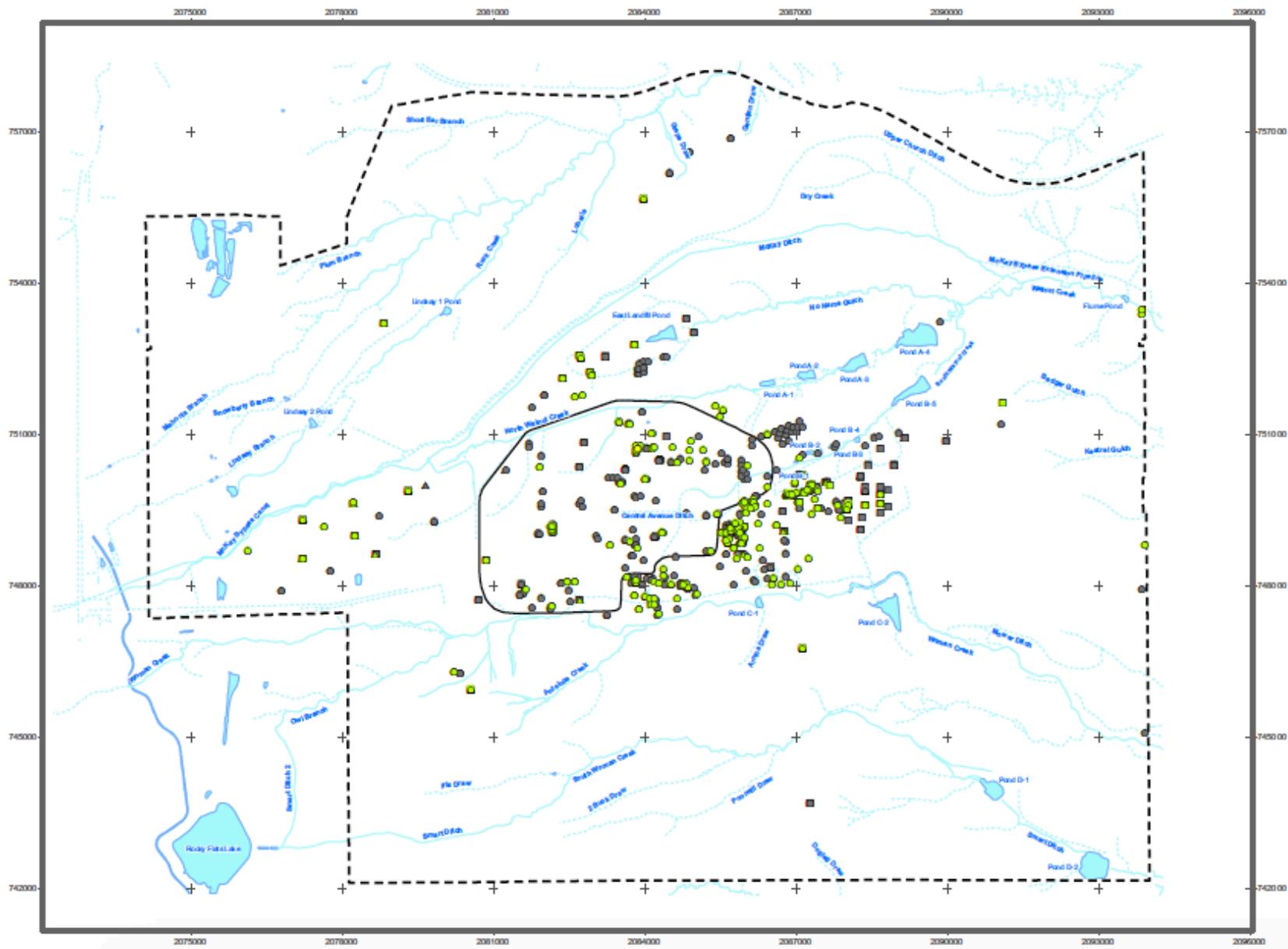


Figure 3.32
Methylene Chloride
Concentrations in
Subsurface Soil
(12 - 30 ft, 30 - 50 ft, and >50 ft)

KEY

- S Sample collected > 12 ft and <= 30 ft
- Sample collected > 30 ft and <= 50 ft
- △ Sample collected > 50 ft
- Yellow symbol >= WRW PRG
- Green symbol Detected and < WRW PRG
- Grey symbol Not detected

Minimum nondetect reported value = 0.493 µg/kg
 Maximum nondetect reported value = 640,000 µg/kg
 Background MSD = NA
 WRW PRG = 3,130,000 µg/kg

Notes:

- Data presented are the results from soil samples collected between 8/28/1991 and 8/22/2005.
- See Table 3.21 for additional information.

Standard Map Features

- AOC boundary
- Pond
- Parental stream
- Intermittent stream
- Ephemeral stream
- - - Site boundary

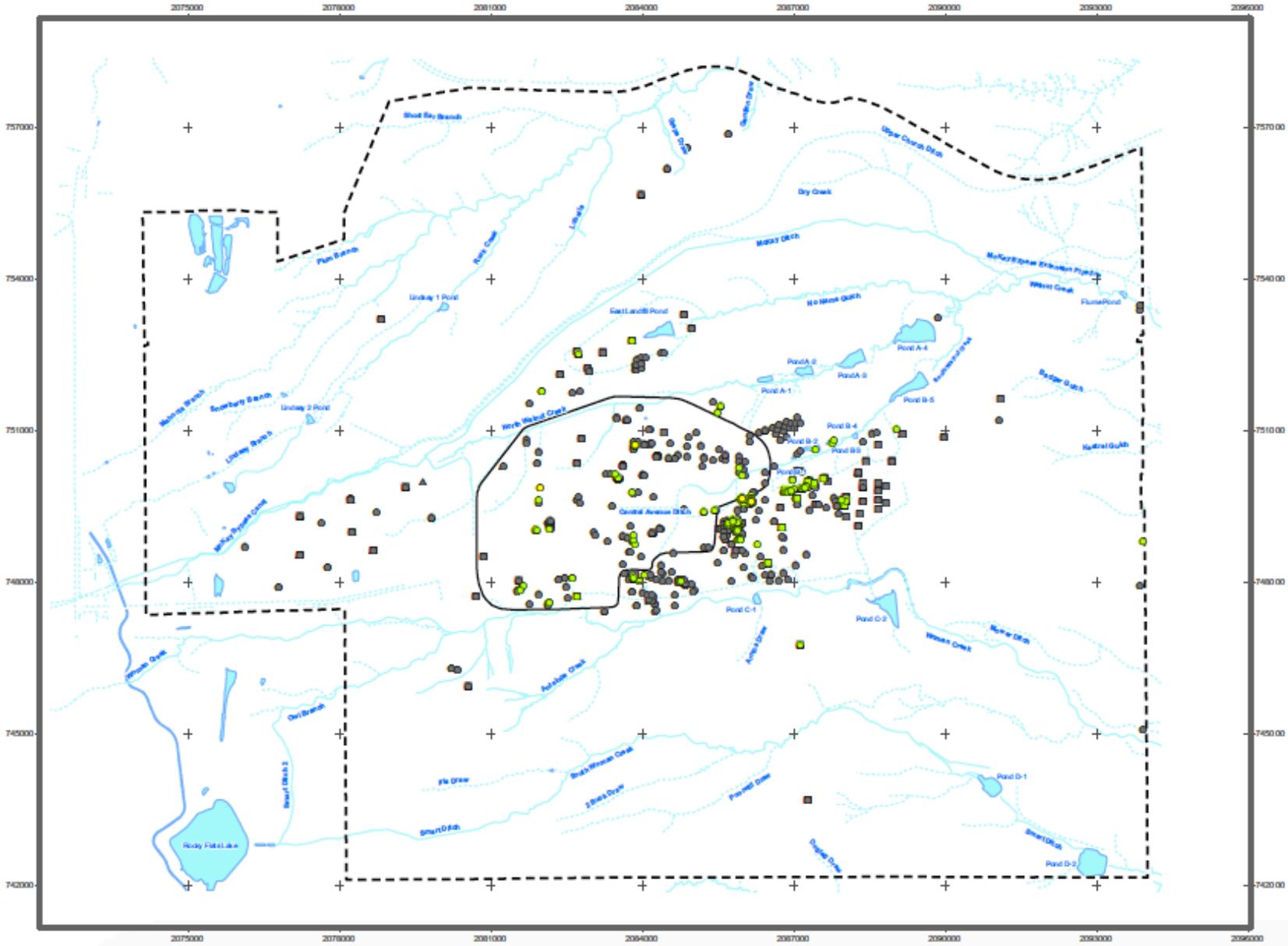
N
 W E
 S

0 1,000 2,000
 Feet

Scale 1:24,000

State Plane Coordinate Projection
 Colorado Central Zone
 Datum: NAD 27

Figure 3.33
Tetrachloroethene
Concentrations in
Subsurface Soil
(12 - 30 ft, 30 - 50 ft, and >50 ft)



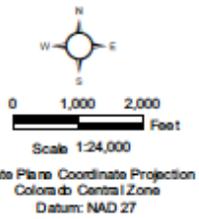
KEY

- S Sample collected > 12 ft and <= 30 ft
 - Sample collected > 30 ft and <= 50 ft
 - △ Sample collected > 50 ft
 - >= WRW PRG
 - Detected and < WRW PRG
 - Not detected
- Minimum nondetect reported value = 0.843 µg/kg
 Maximum nondetect reported value = 840,000 µg/kg
 Background MSD = NA
 WRW PRG = 77,111 µg/kg

Notes:
 - Data presented are the results from soil samples collected between 8/28/1991 and 8/22/2005.
 - See Table 3.21 for additional information.

Standard Map Features

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



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References

This is a synopsis, the author condensed information and all tables and figures were obtained from the *RCRA Facility Investigation –*

Remedial Investigation/ Corrective Measures Study – Feasibility Study Report for the Rocky Flats Environmental Technology Site prepared by Kaiser-Hill Company L.L.C.