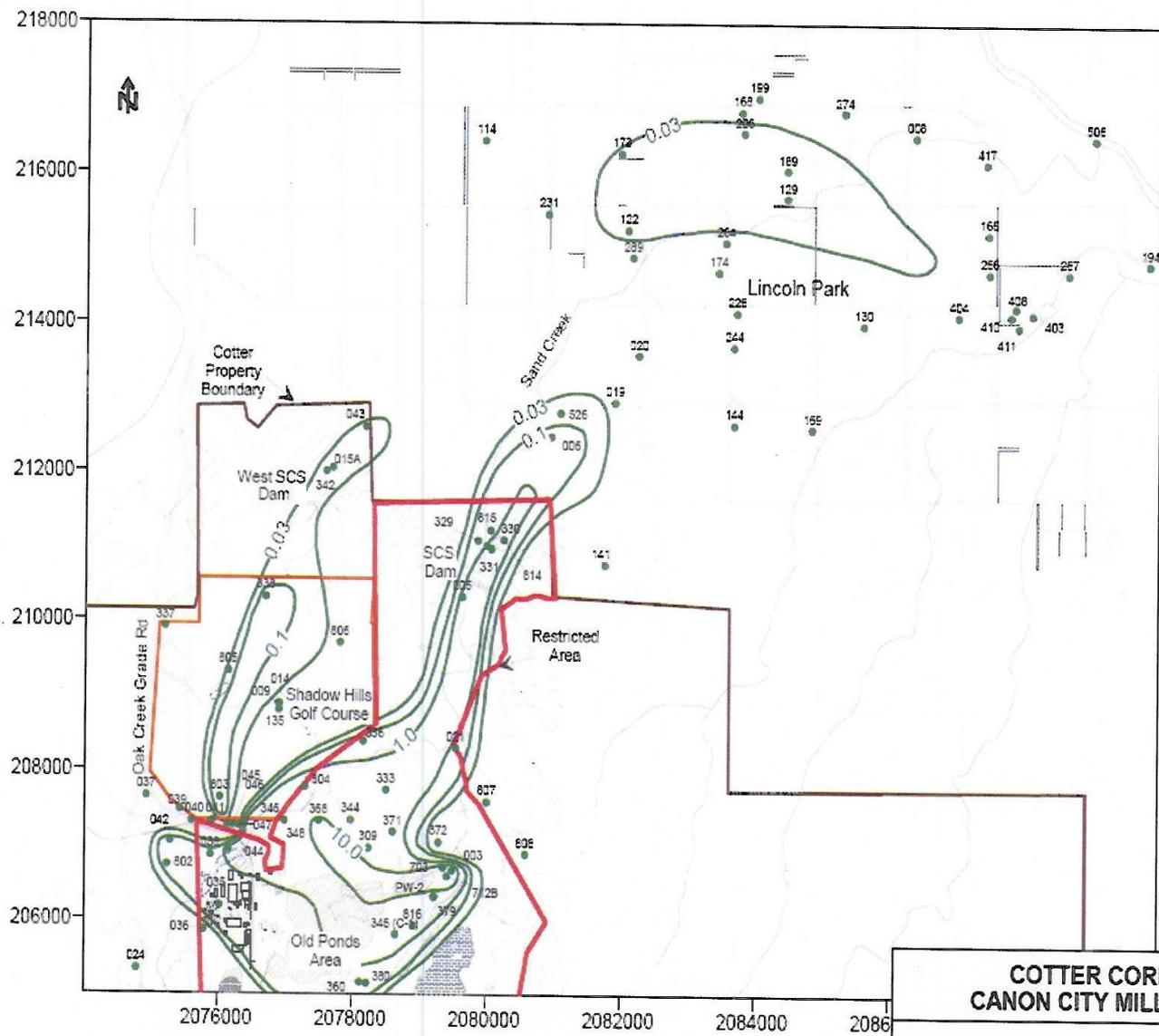


NORTHWEST GROUND WATER PLUME (Golf Course Plume)

Investigation report dated May 17, 2010



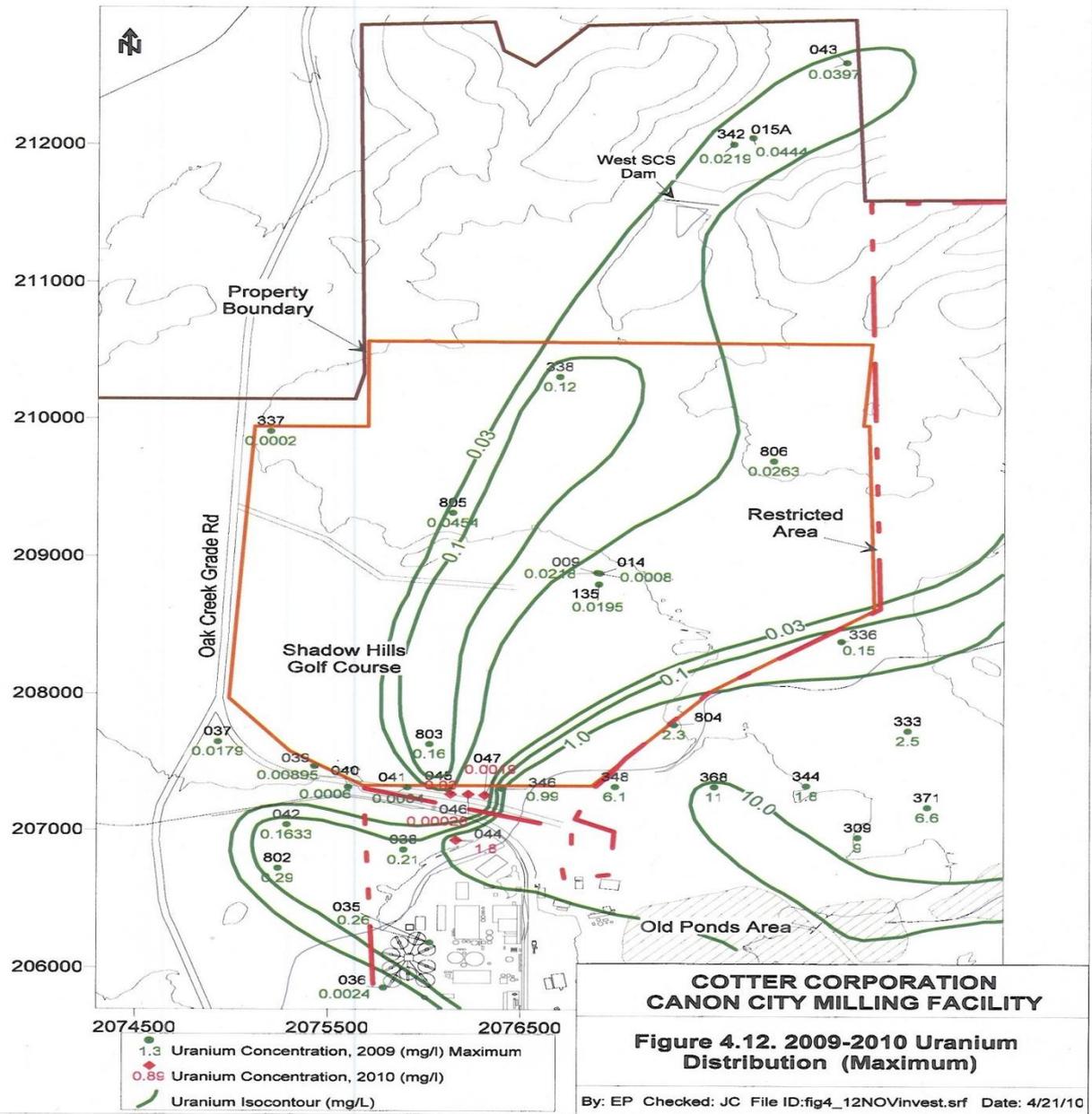
Colorado Department
of Public Health
and Environment



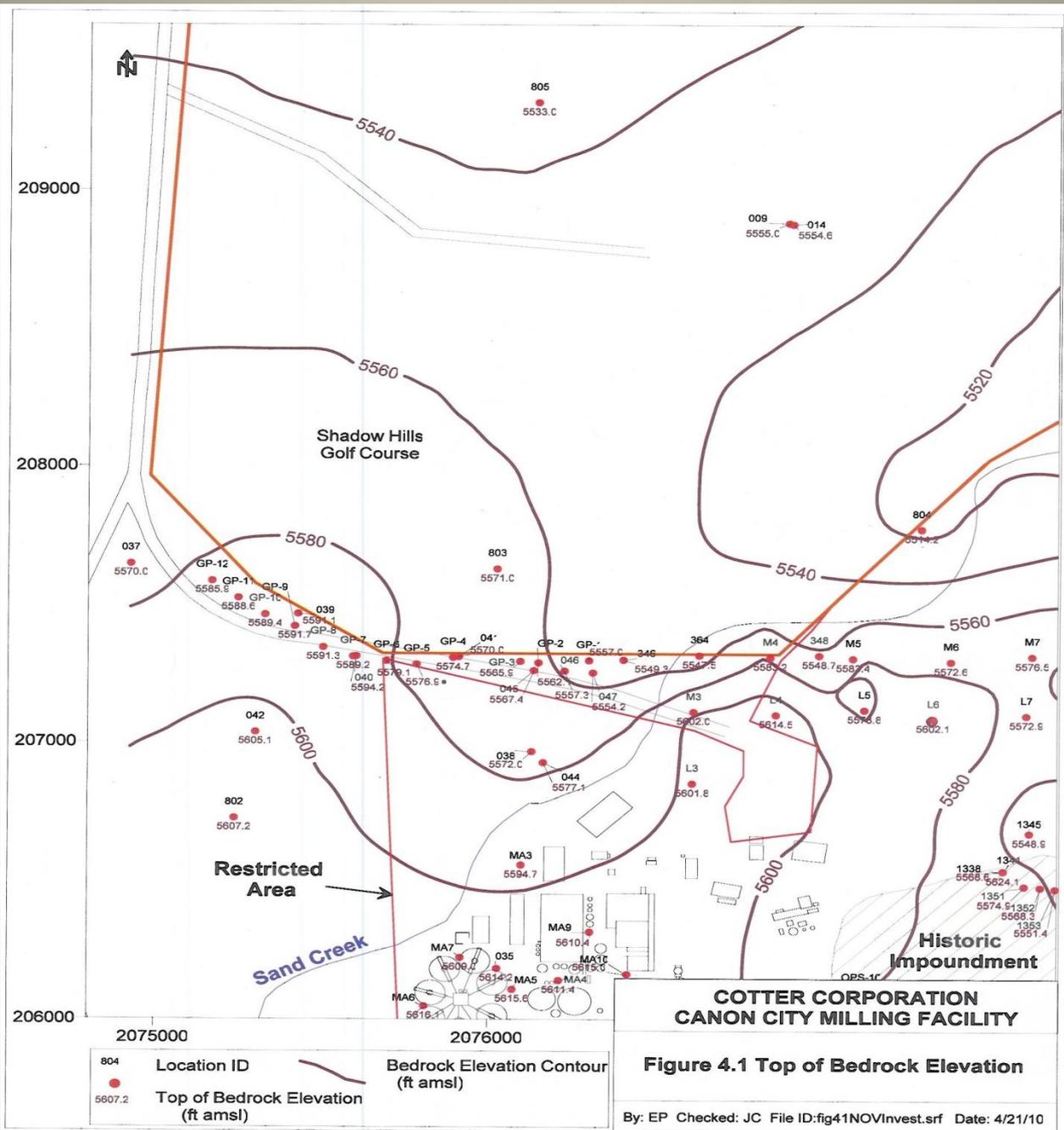
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CANON CITY MILLING FACILITY**

**Figure 1.2. 2009-2010 Uranium Distribution
Vicinity of the Milling Facility**

By: EP Checked: JC File ID:fig5_12NOInvest.srf Date: 4/21/10



As was the case prior to the NOV groundwater investigation, the only well with molybdenum that exceeds the CGWQS is Well 804 (Figure 4.13).

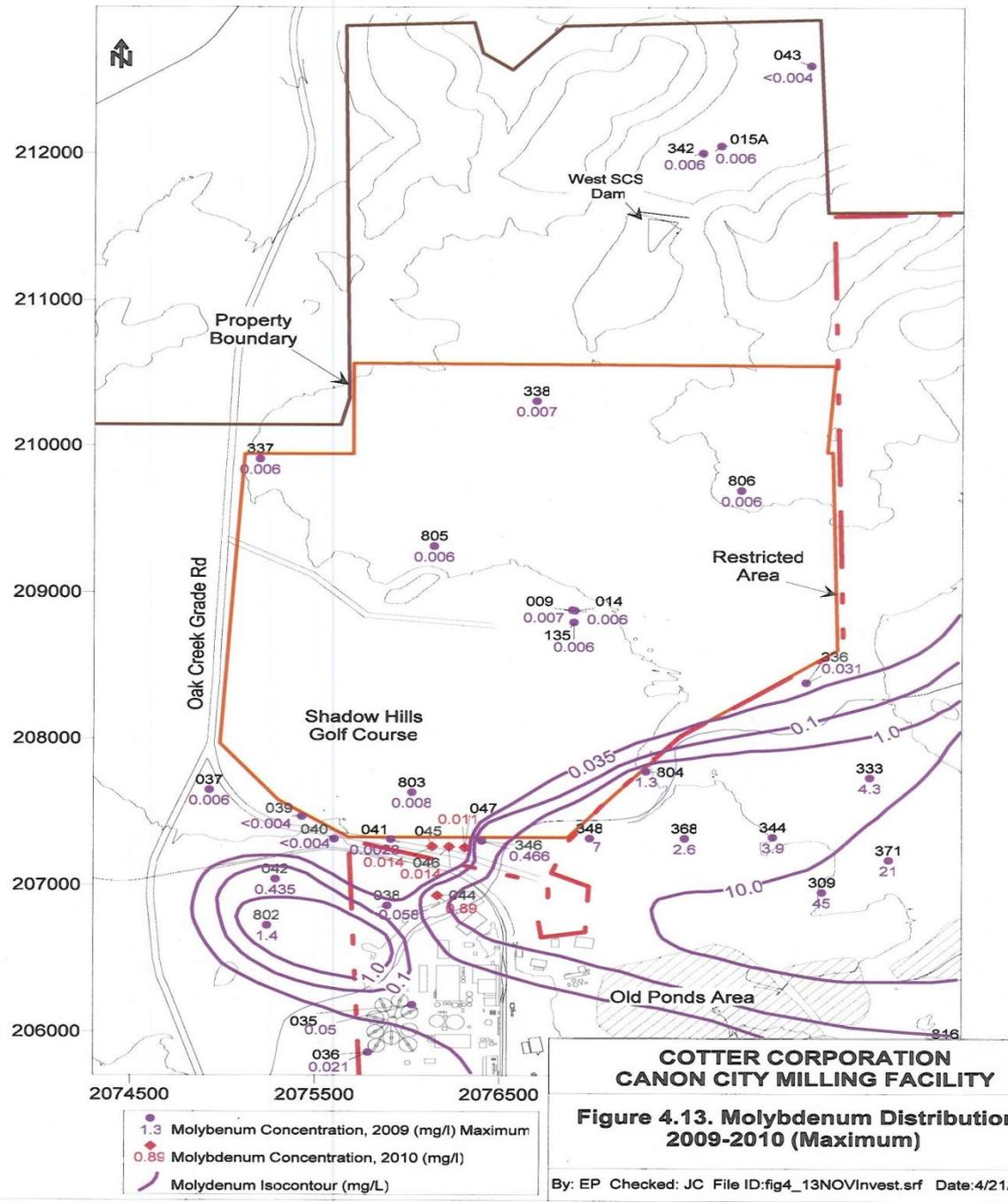


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Figure 4.1 Top of Bedrock Elevation

By: EP Checked: JC File ID:fig41NOVInvest.srf Date: 4/21/10

<p>804 ●</p> <p>5607.2</p>	<p>Location ID</p> <p>Top of Bedrock Elevation (ft amsl)</p>	<p>—</p> <p>Bedrock Elevation Contour (ft amsl)</p>
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North West Plume

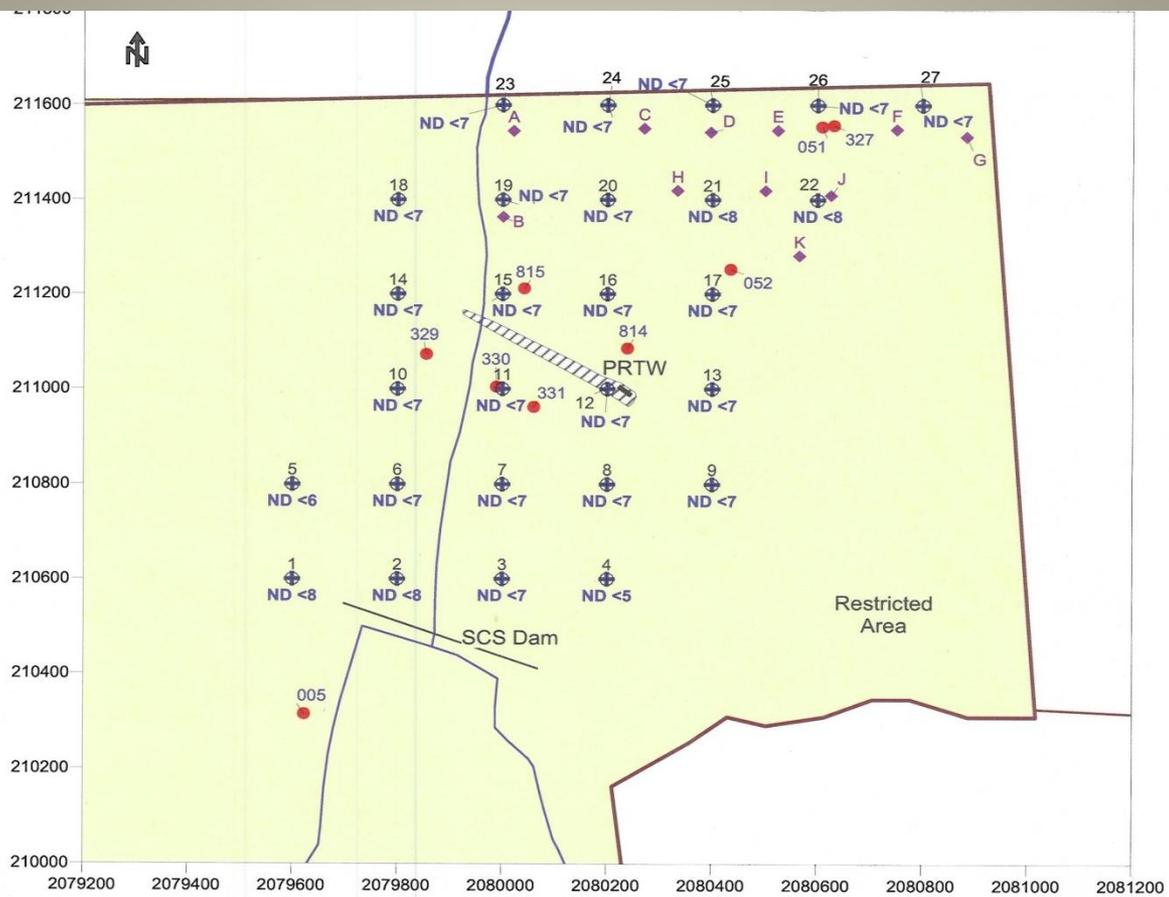
- Bedrock high separates NW Plume from the contamination found west of mill and from main ground water plume along Sand Creek.
- Extent of plume appears stable, there is no evidence it reaches Lincoln Park.
- Impacted ground water is not used therefore presents no present public health risk.
- Potential source areas will continue to be investigated as part of closure and remedial action.
- This area is part of RAP task 10.

DAM TO DITCH AREA

- Area between SCS dam on Sand Creek and DeWeese Dye Ditch.
- It includes cut off wall and Sand Creek drainage as it moves from Chandler Syncline into Lincoln Park alluvium.
- Characterizing and remediating this area is RAP task 12.

Leaching studies

- To determine if near-surface soils are source of on-going contamination in ground water, and if they could used be in remedy, a leaching study was performed.
- 13 new soil borings drilled into competent bedrock in last year.
- 2 new monitoring wells with pump tests
- Leach studies of soils taken from boreholes
- X-ray fluorescence (XRF) analysis for uranium and molybdenum in surface soils.



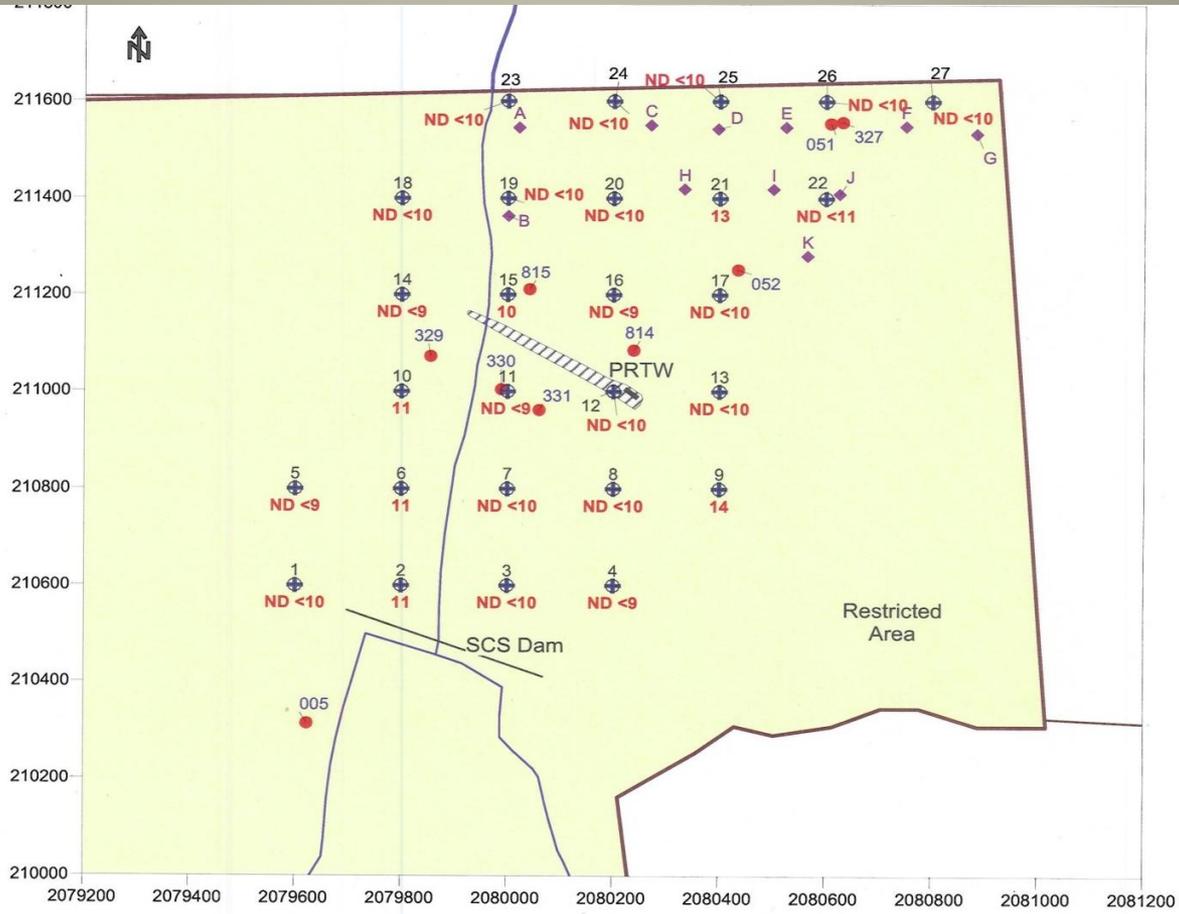
- Monitor Well
Groundwater Sampling Program
- ◆ DDA Soil Boring Location
- 1 Sample ID
- ⊕ XRF Soil Sample Location
- ND < 10 Uranium Concentration (ppm)

Coordinates in ft, NAD27, Central Colorado

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**Figure 1. Uranium Measurements, XRF Soil Samples
Dam to Ditch Area
Canon City Milling Facility, Colorado**

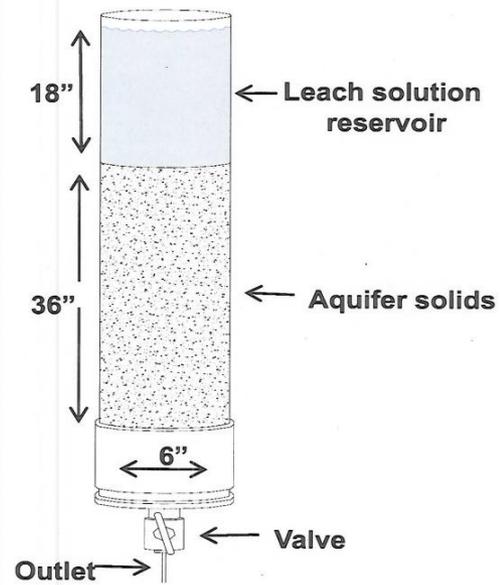
By: EPL Checked: JC File ID: DDAXRF.srf Date: 10/3/11

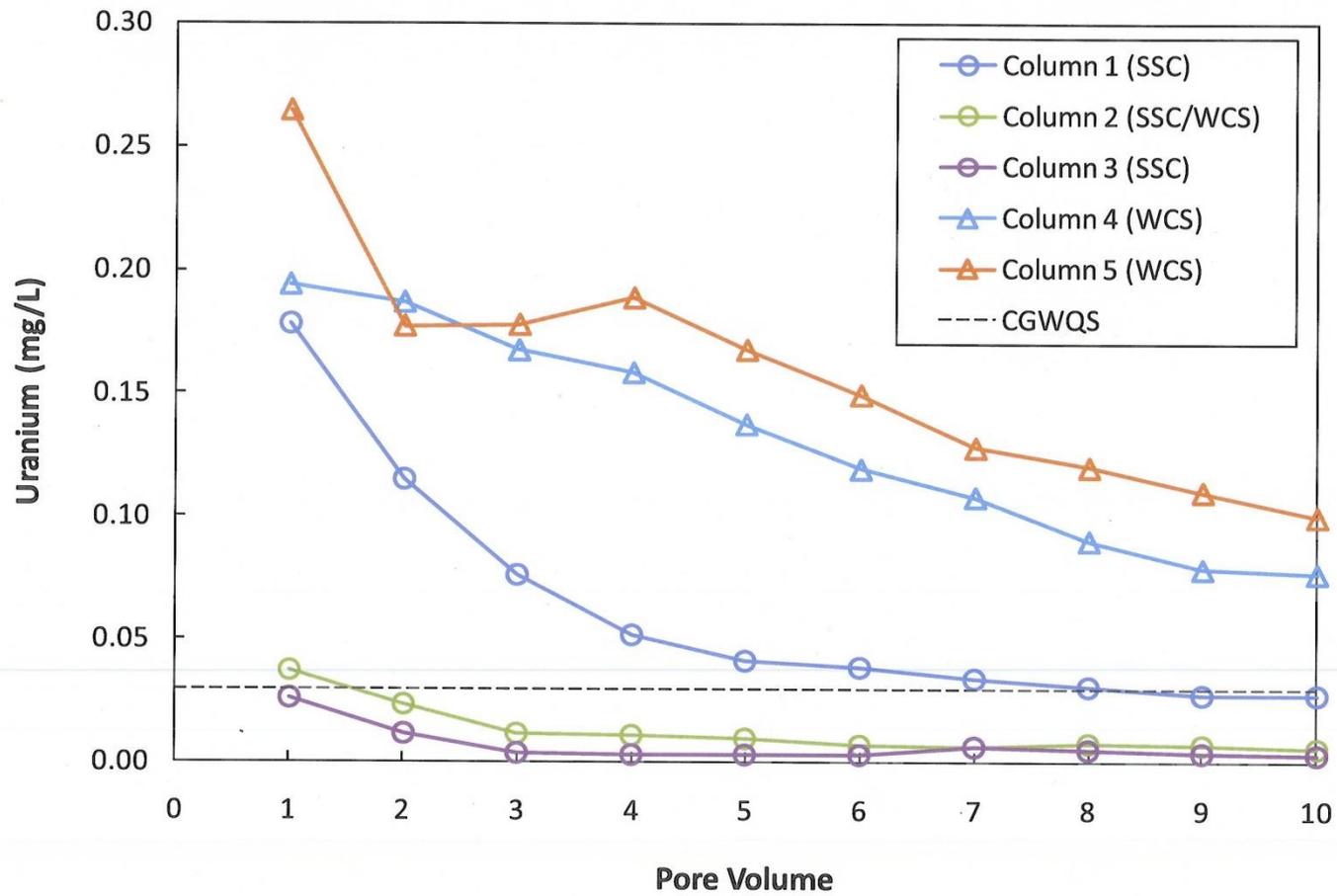


- Monitor Well
Groundwater Sampling Program
 - ◆ DDA Soil Boring Location
 - 1 Sample ID
 - ⊕ XRF Soil Sample Location
 - ND < 10 Molybdenum Concentration (ppm)
- Coordinates in ft, NAD27, Central Colorado

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**Figure 2. Molybdenum Measurements, XRF Soil Samples
Dam to Ditch Area
Canon City Milling Facility, Colorado**





URANIUM COLUMN LEACHING RESULTS FOR UNCONSOLIDATED SANDS, SILTS & CLAYS (SSC) AND WEATHERED CLAYSTONE (WCS)

Project No. DE10160100

Figure 3

Leach Study Findings

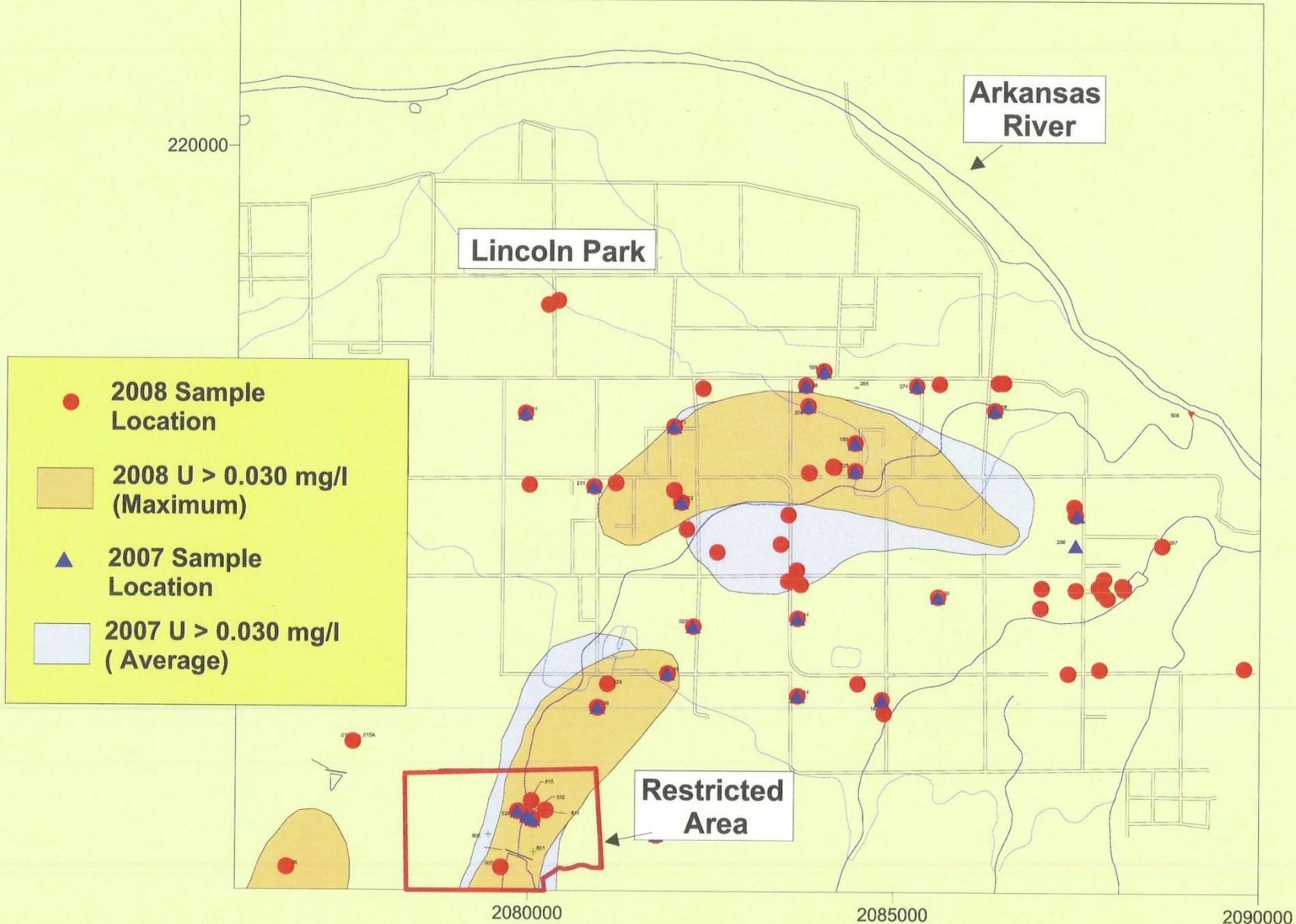
- Surface soils do not contribute significantly to contamination in ground water. Amount of contaminants released by leaching are too low to impact ground water above standards.
- Drilling program found that bedrock expression of Sand Creek is east of surface of same creek.

Lincoln Park Ground Water

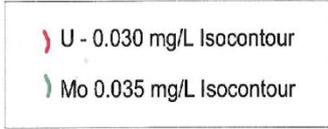
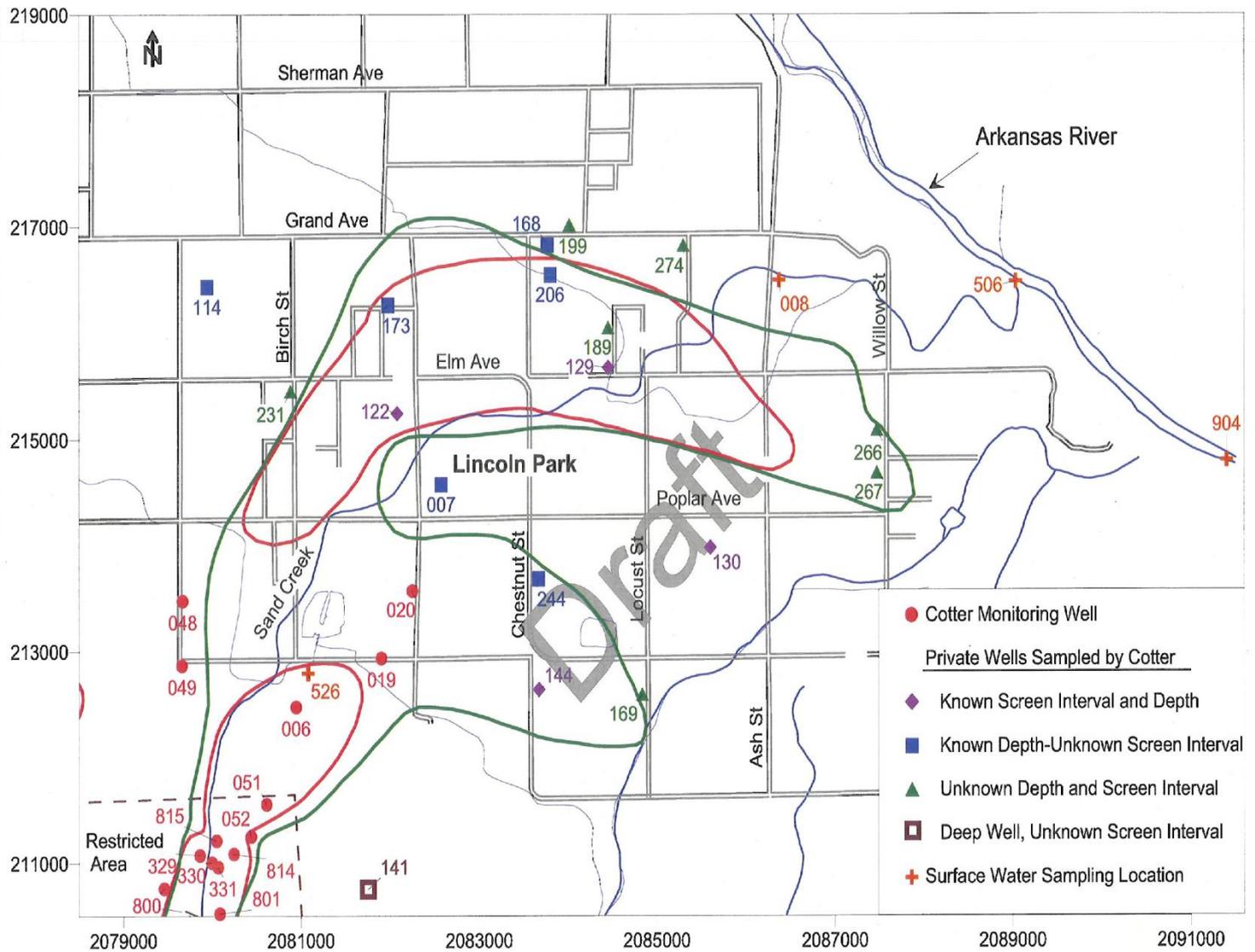
Expanding the Investigation



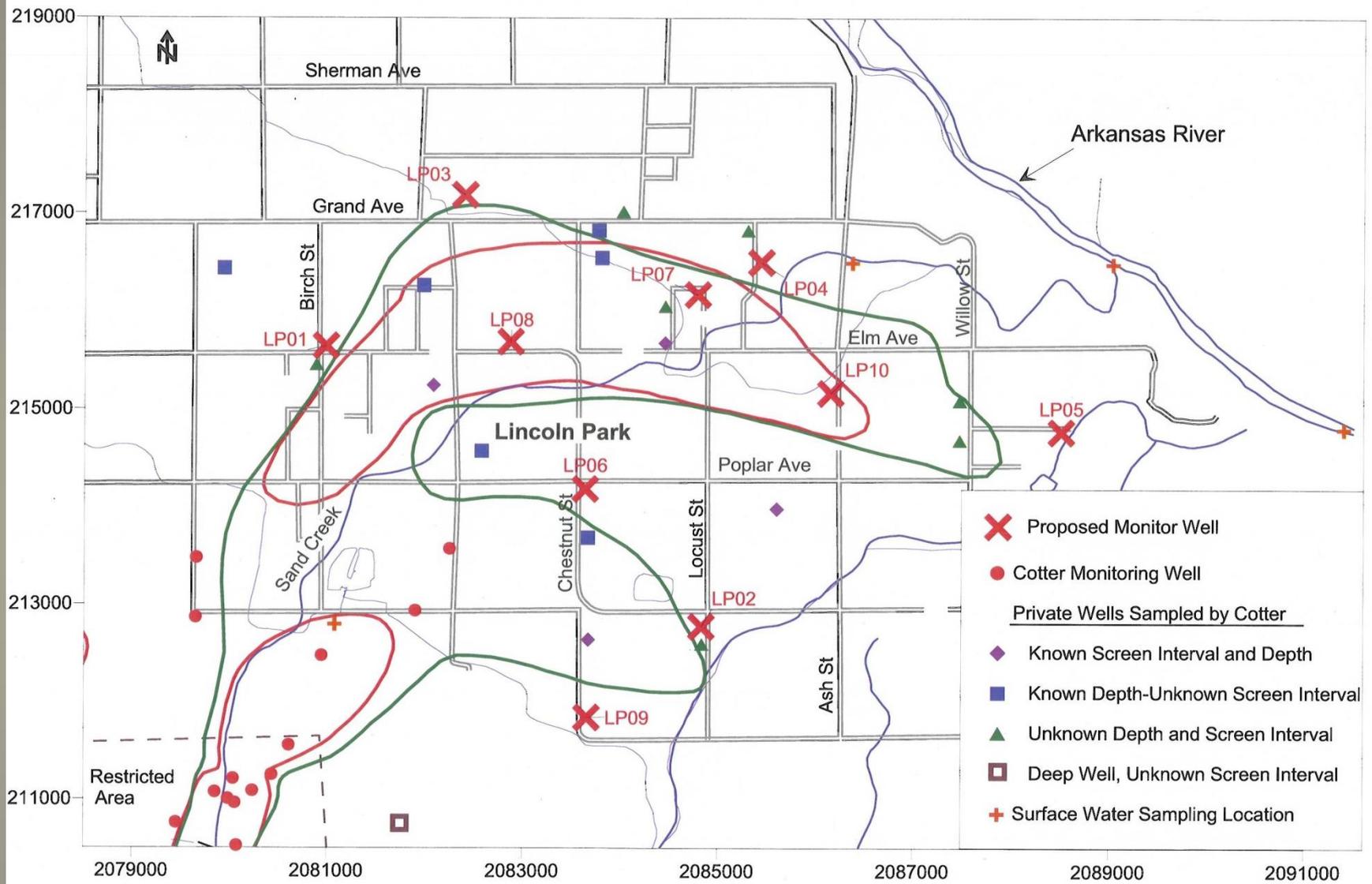
Colorado Department
of Public Health
and Environment



Comparison of 2008 (Maximum) with 2007 (Average) Uranium Groundwater Concentration > 0.030mg/L



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Figure 1. Lincoln Park
Groundwater Monitoring Locations



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Figure 2. Lincoln Park
Proposed Monitoring Locations
 (Revised 7/6/11)

By: EPL Checked: JC File ID:fig2LPGWMP.srf Date: 7/6/11

9/27/11

