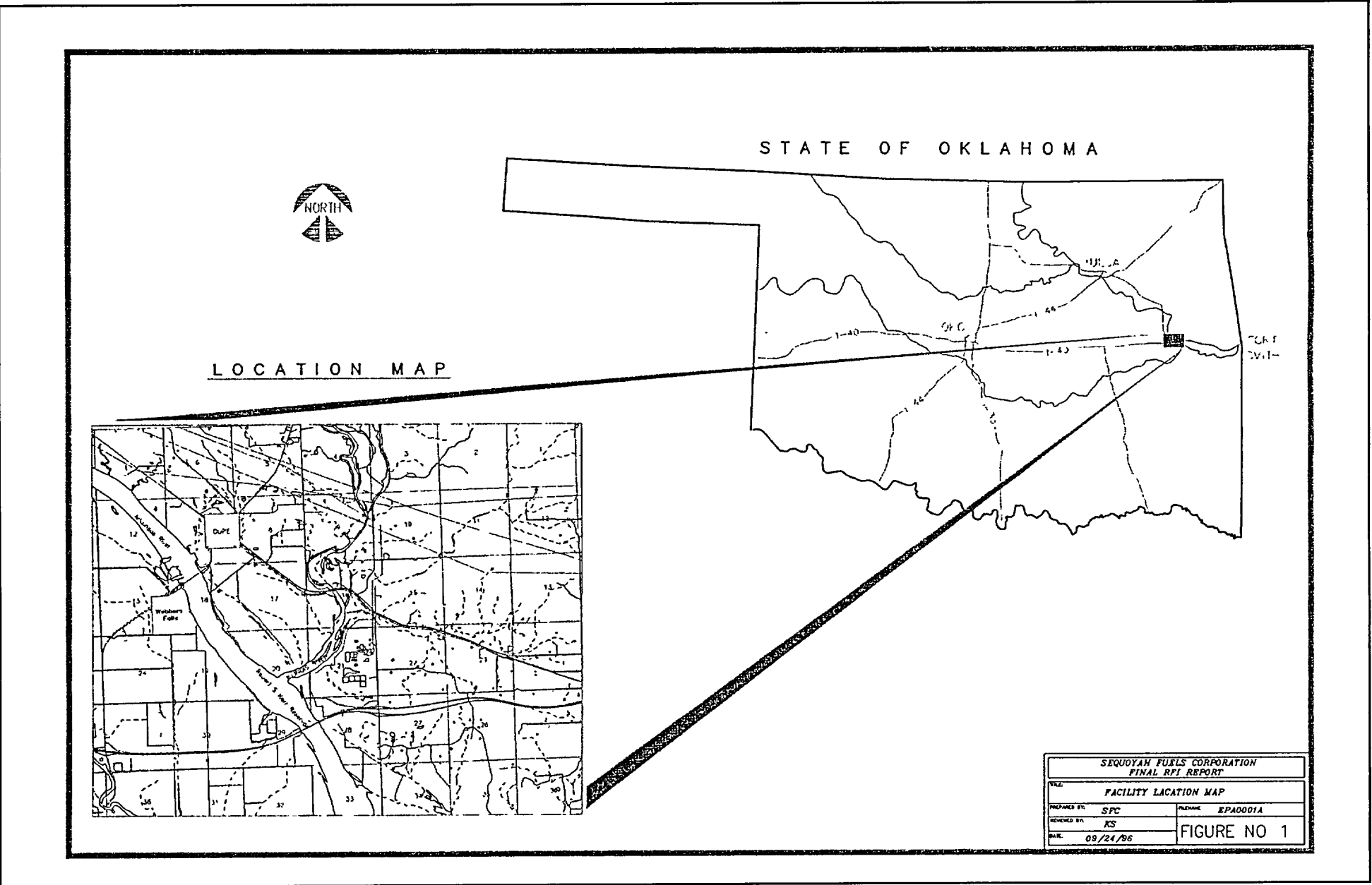


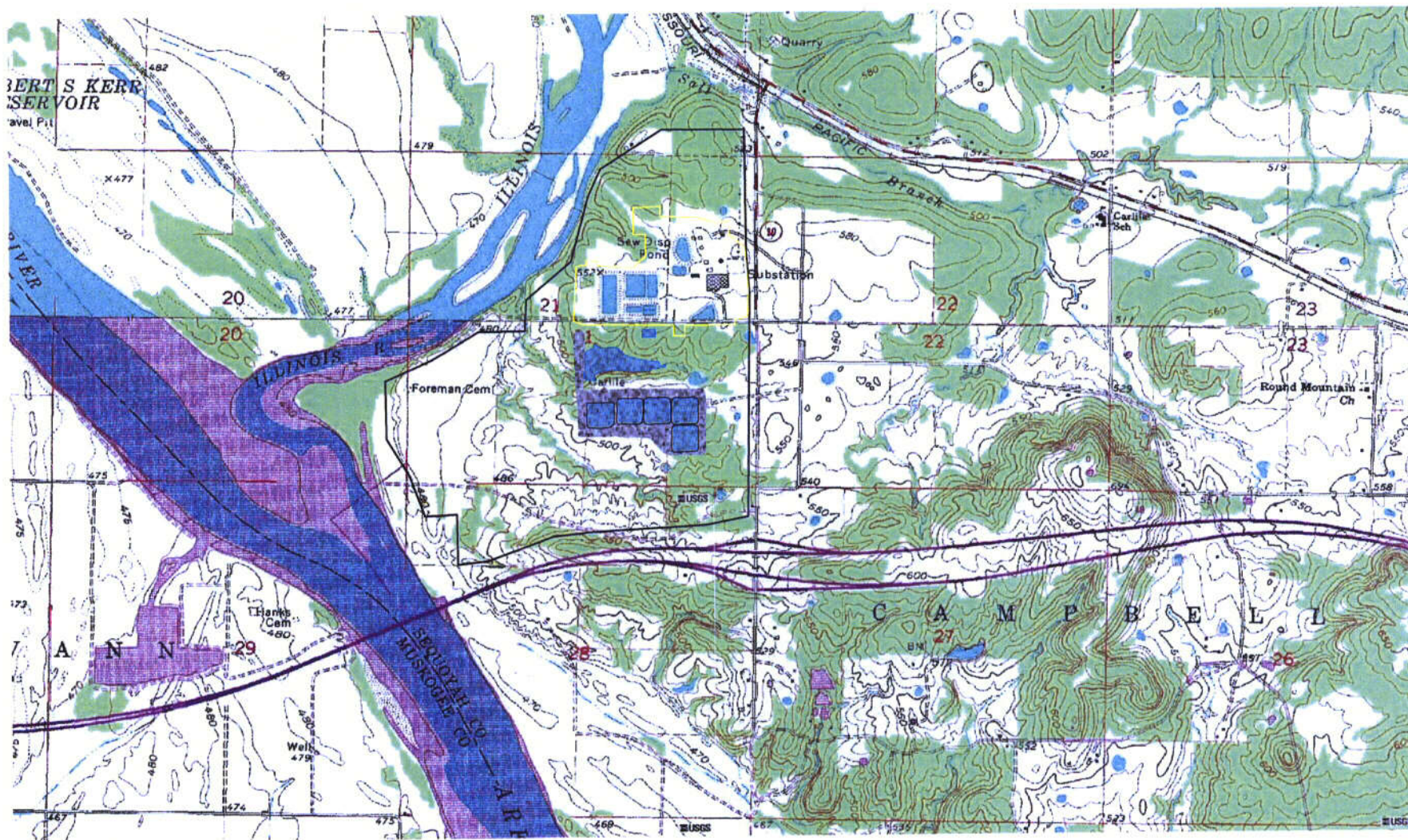
FIGURES



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FIGURE 2-1
LOCATION MAP

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After U.S.G.S. 7.5 Min. Topographic quadrangles, Gore, OK (1974) and Stigler NE, OK (1963).

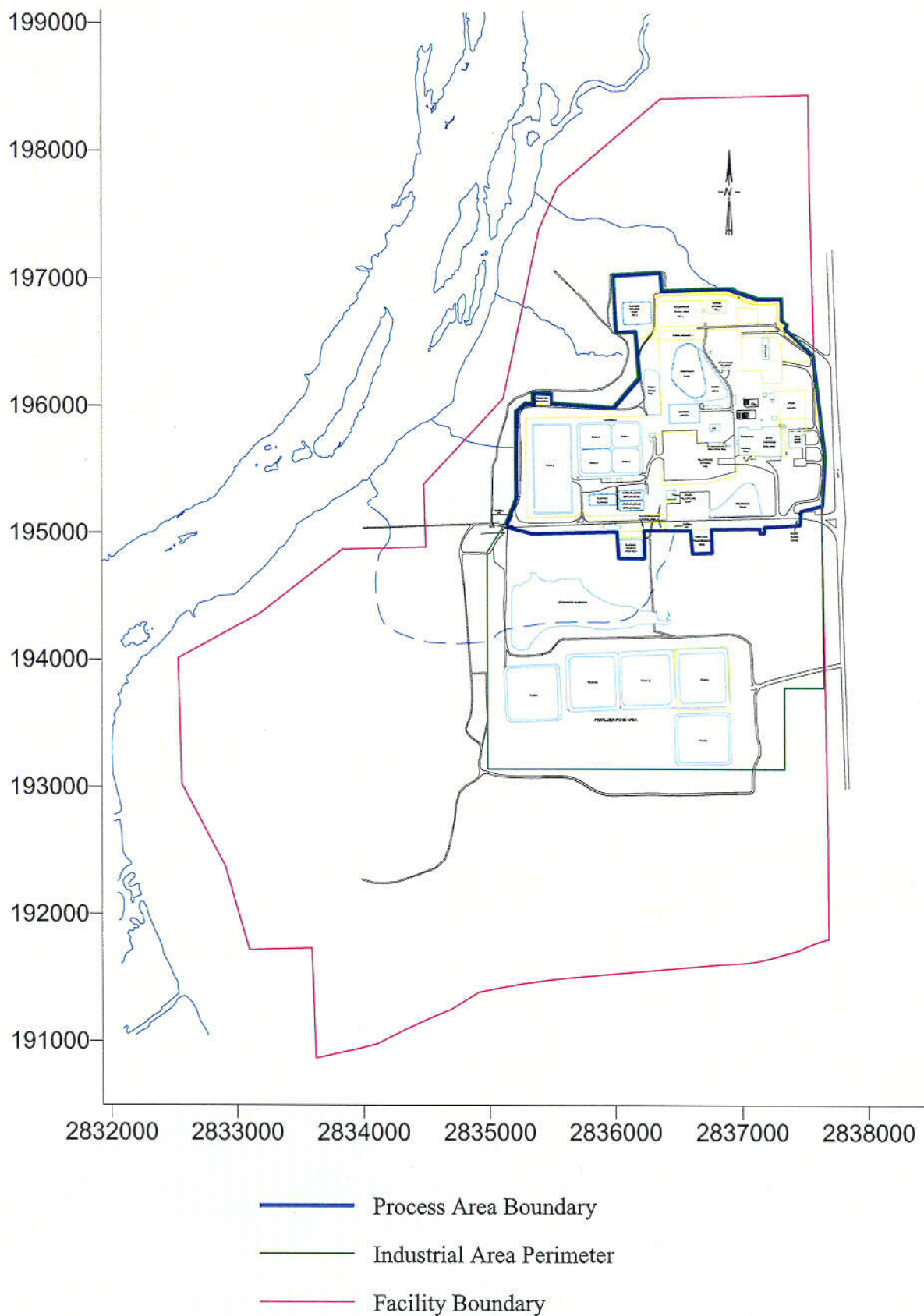
C01



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FIGURE 2-2
TOPOGRAPHIC MAP

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FIGURE 2-3
FACILITY AREA DESIGNATIONS

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C03

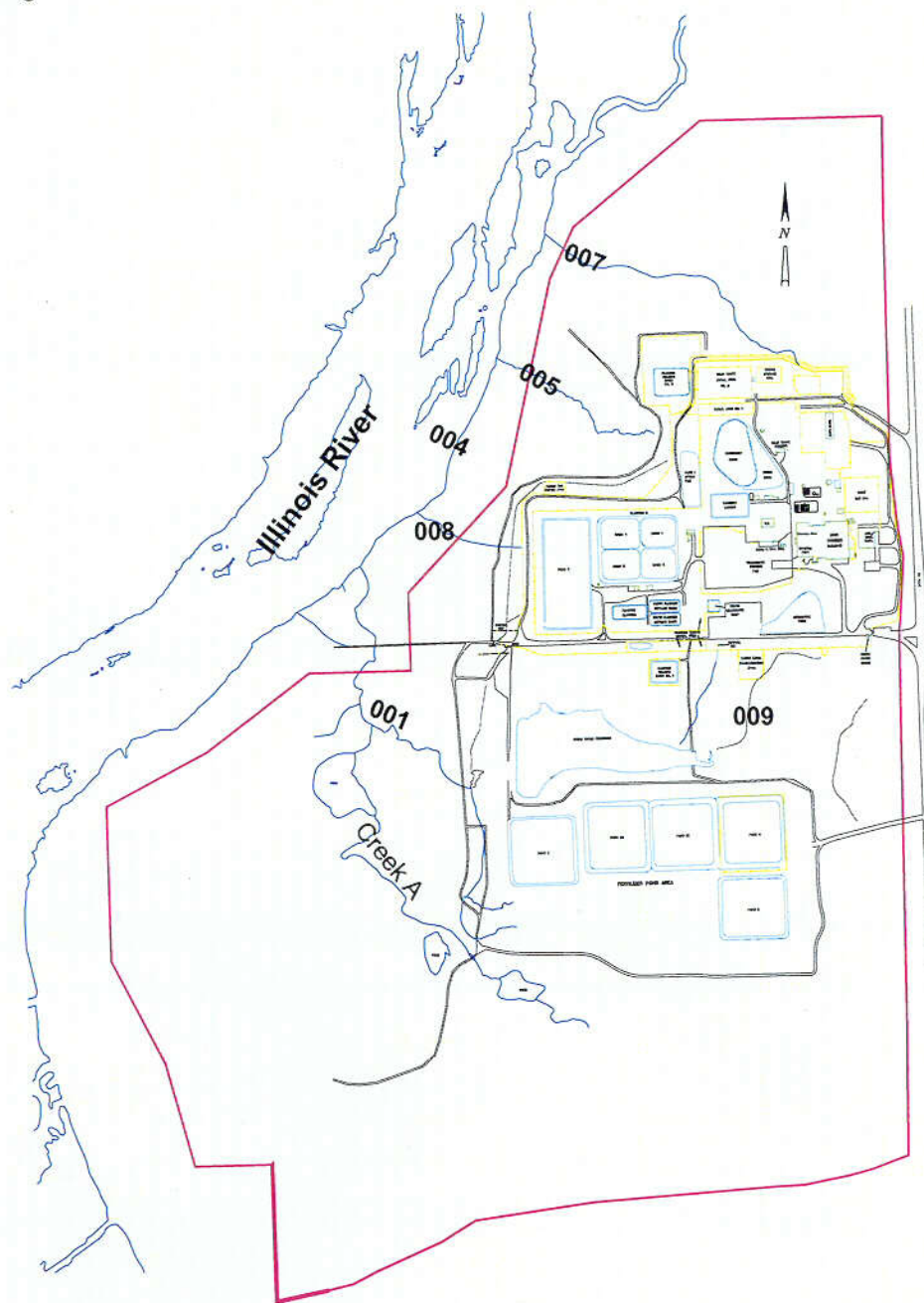


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FIGURE 2-4
GENERAL FACILITY LAYOUT

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▲ Spring



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FIGURE 2-5
LOCATIONS OF FACILITY
DRAINAGES AND SPRINGS

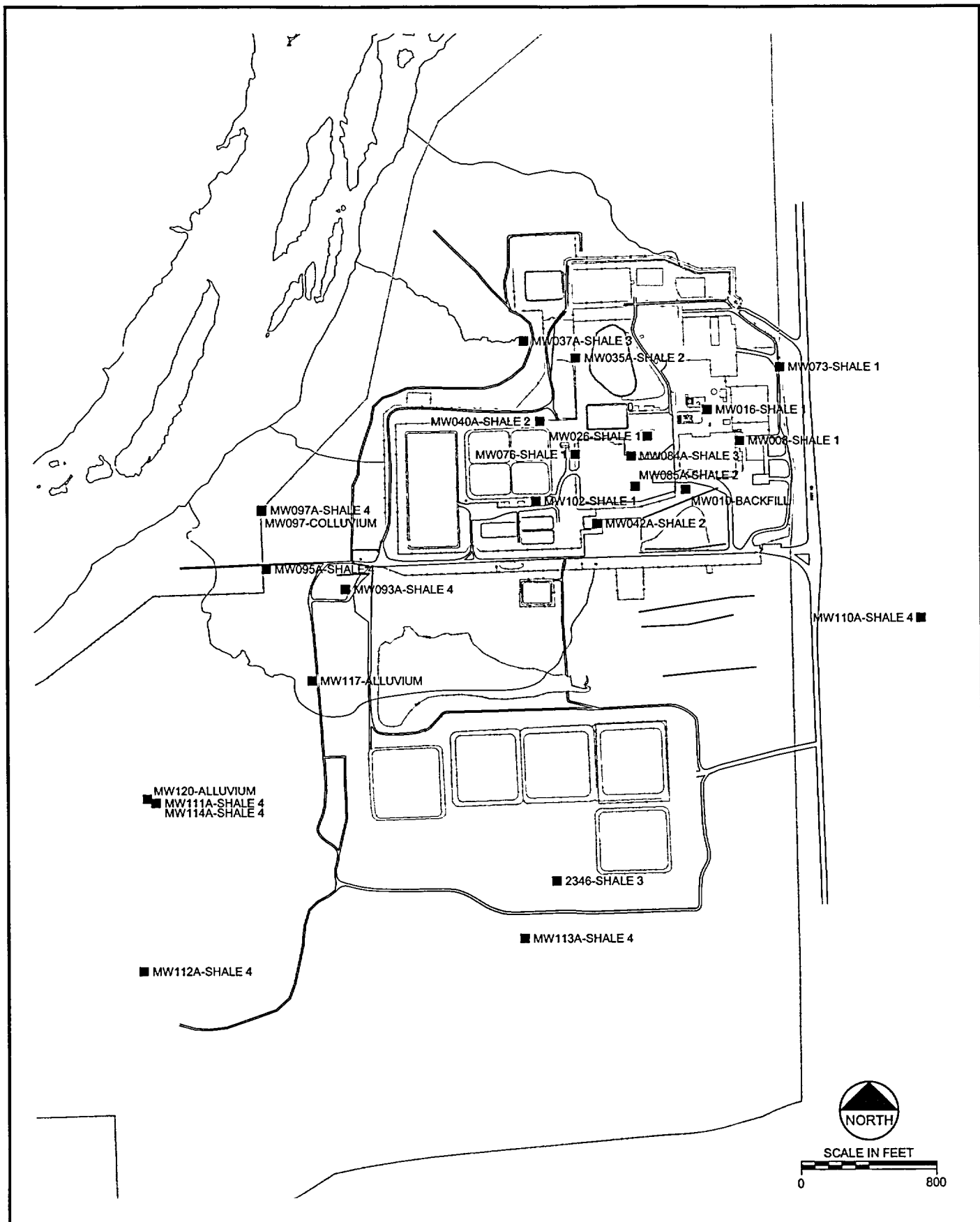
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File:	SECT2PORT.ppt

**THIS PAGE IS AN
OVERSIZED DRAWING OR
FIGURE,
THAT CAN BE VIEWED AT THE
RECORD TITLED:
FIGURE 4-1, "SMI WELL, BOREHOLE,
AND GEOCHEMICAL SAMPLING
LOCATIONS"**

WITHIN THIS PACKAGE

NOTE: Because of these page's large file size, it may be more convenient to copy the file to a local drive and use the Imaging (Wang) viewer, which can be accessed from the Programs/Accessories menu.

D-01



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FIGURE 4-2
SLUG TEST LOCATIONS

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Project. 100734

File. SLUGTEST.DWG

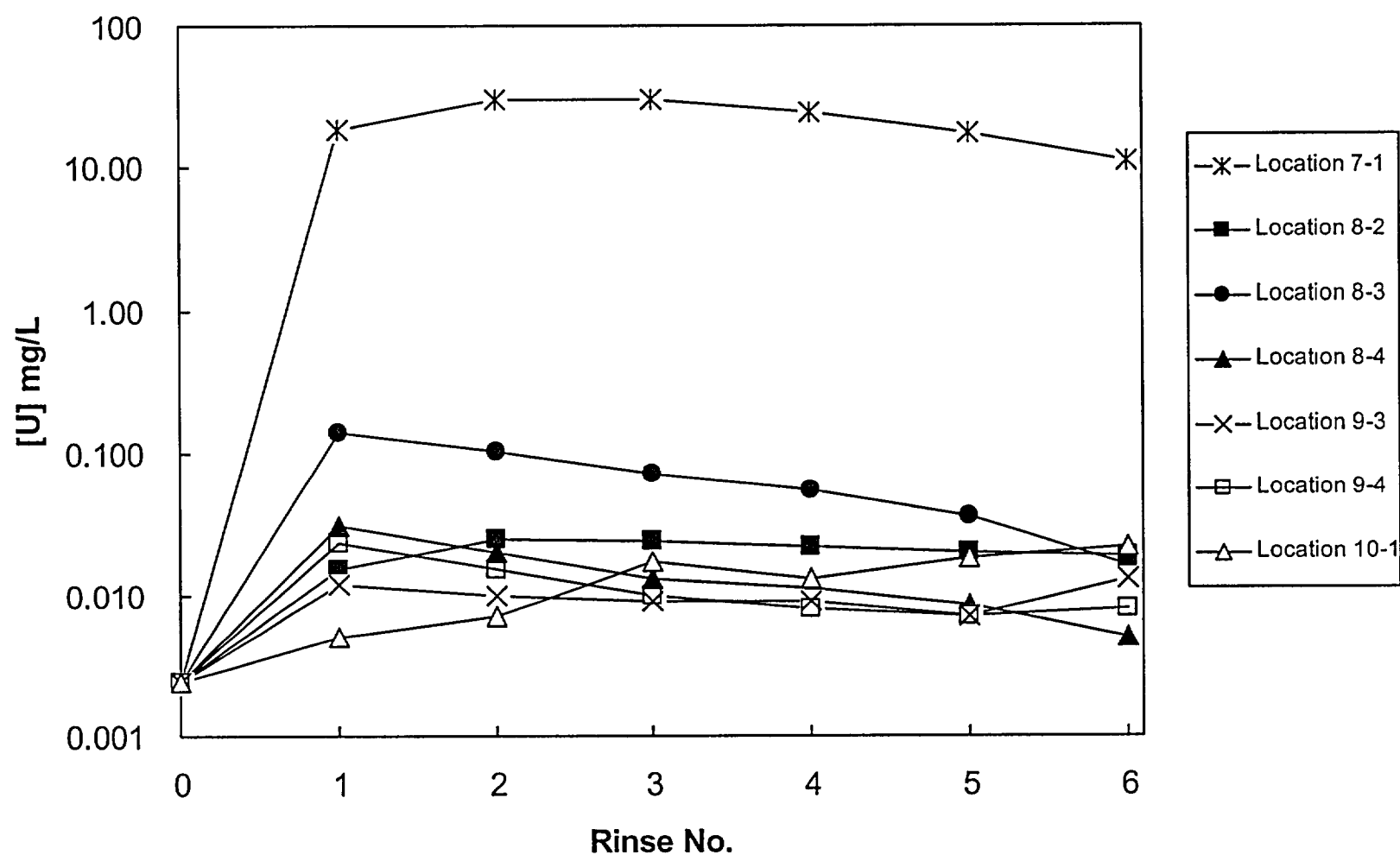


FIGURE 5-1
URANIUM CONCENTRATIONS IN THE K_d BATCH TEST SOLUTIONS

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File	GEOCHEM ppt

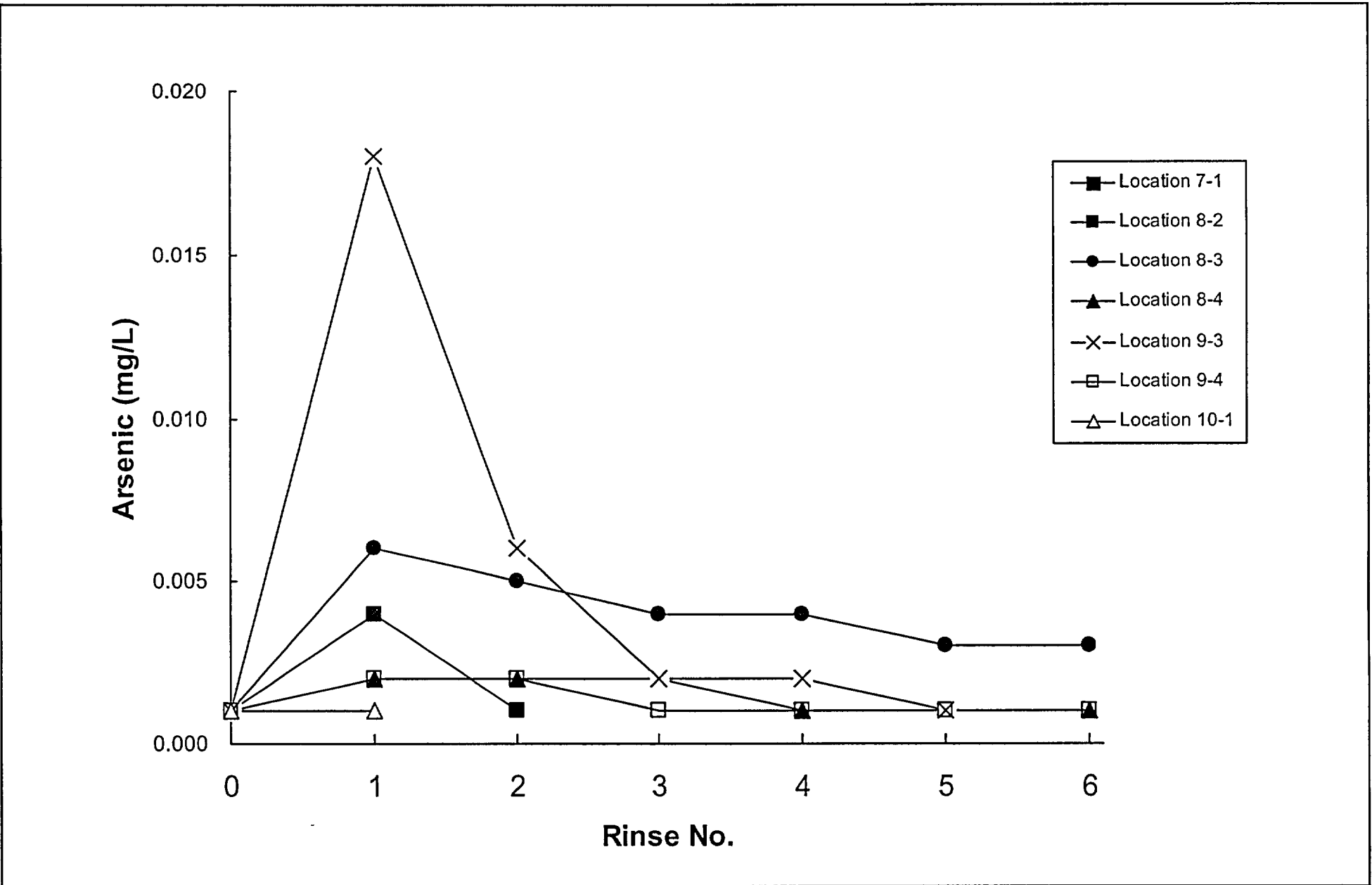
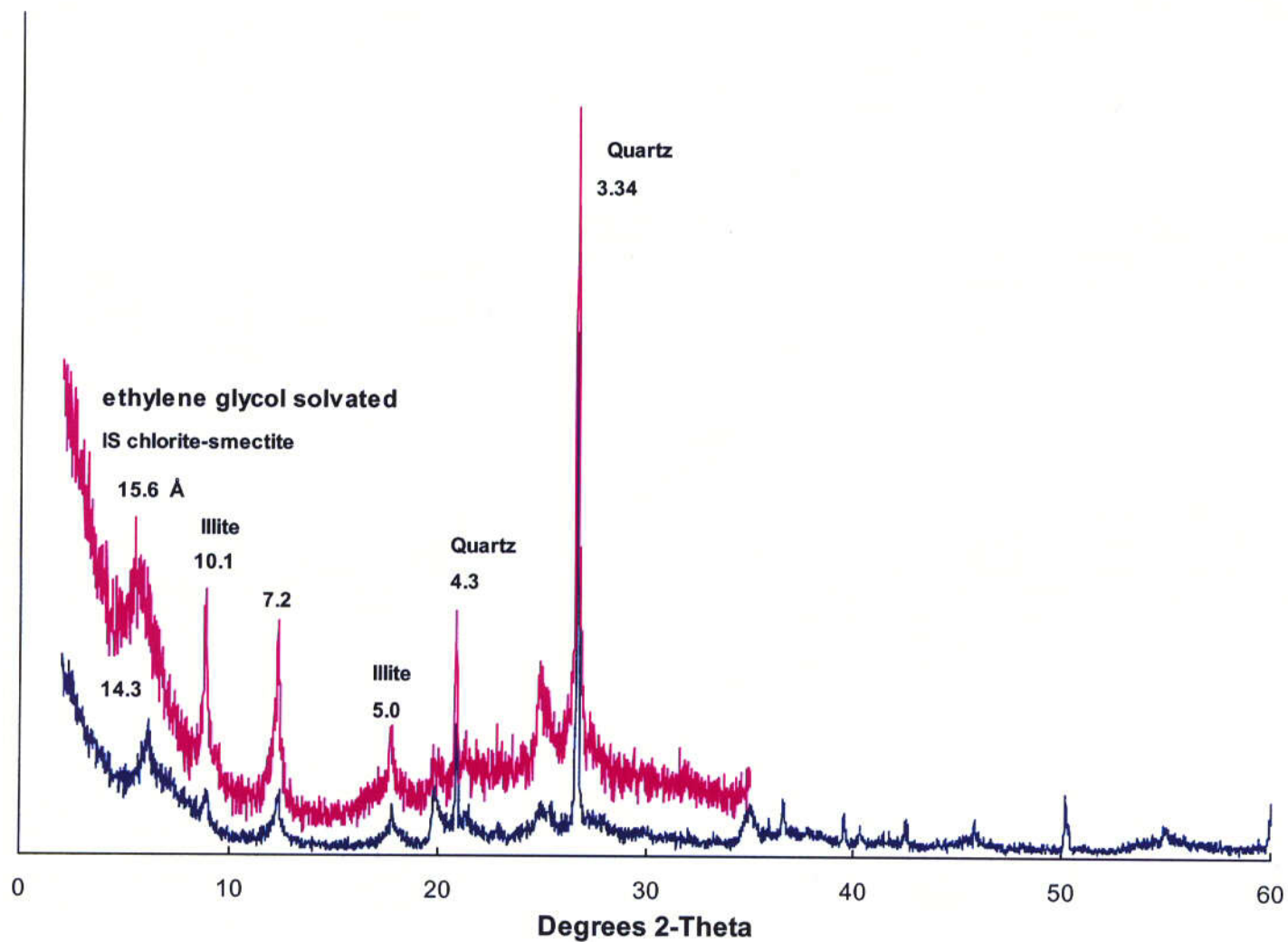


FIGURE 5-2
ARSENIC CONCENTRATIONS IN THE K_d BATCH TEST SOLUTIONS

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File.	GEOCHEM ppt



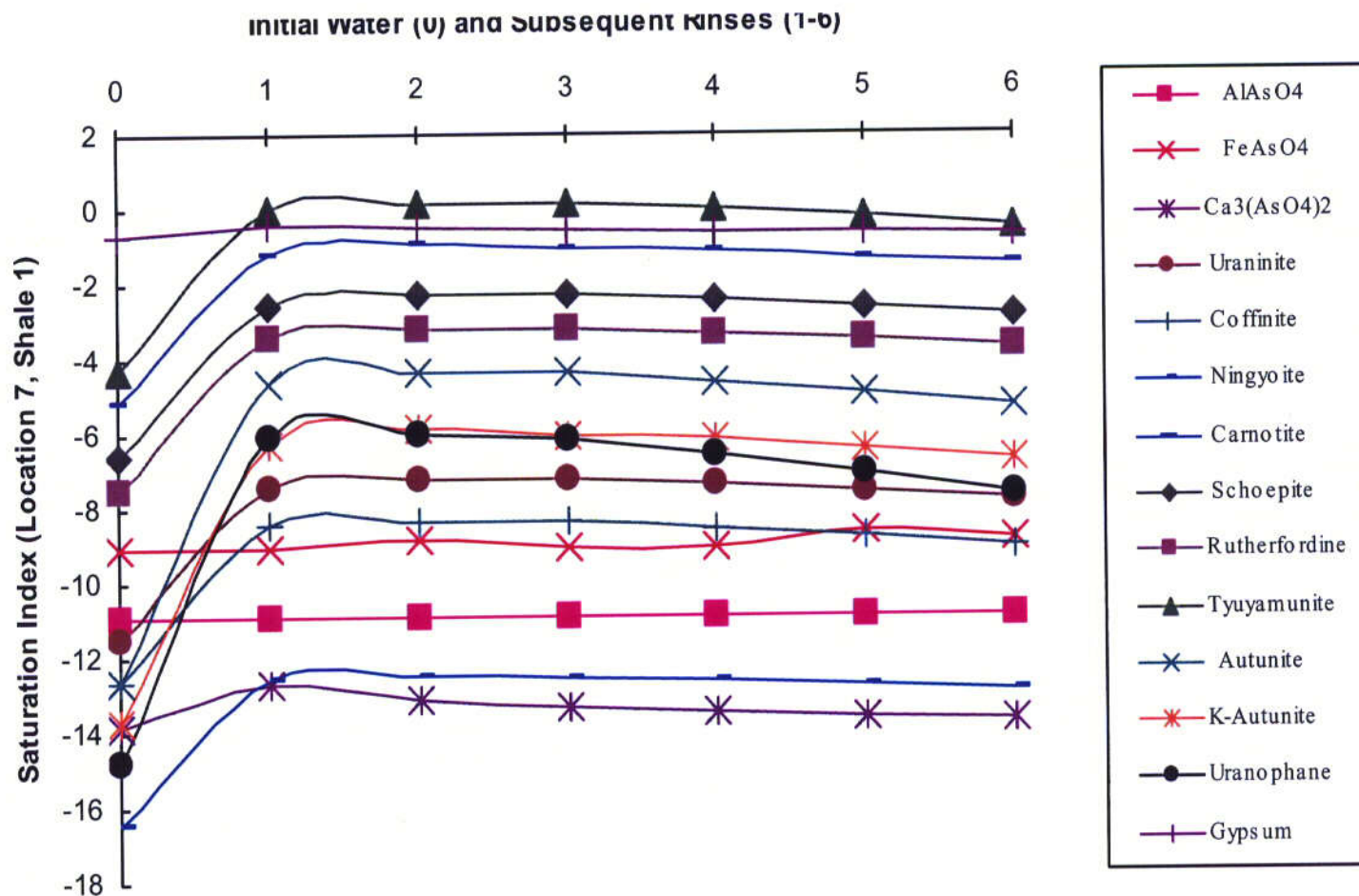
C05



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FIGURE 5-3
X-RAY DIFFRACTION PATTERN FOR SHALE 1 (LOCATION 7) COMPARING
THE d(001)-SPACING OF UNTREATED AND ETHYLENE GLYCOL SOLVATED
SAMPLES

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Project:	P:\100734-2\REV CHAR RPT
File:	GEOCHEM.ppt



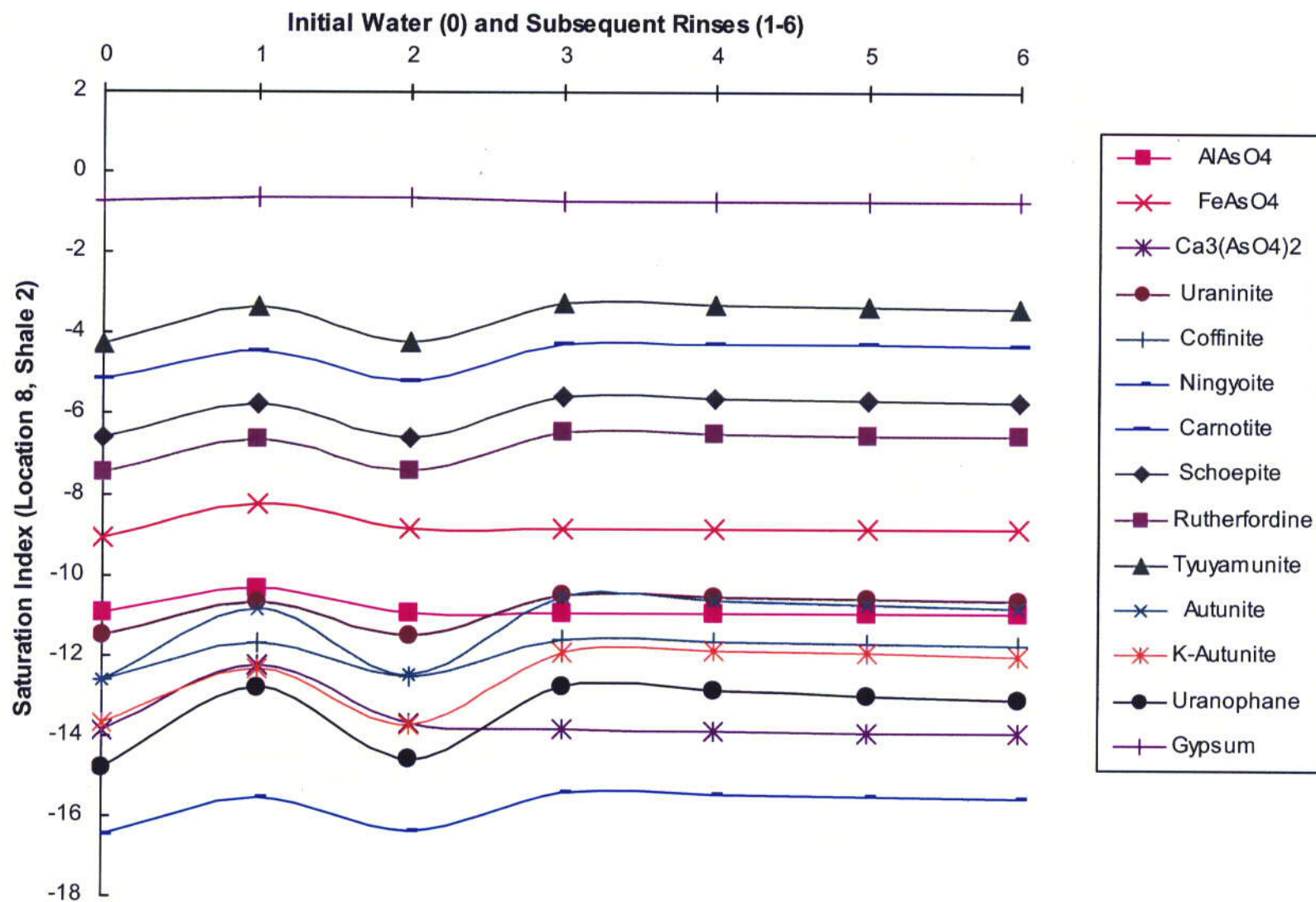
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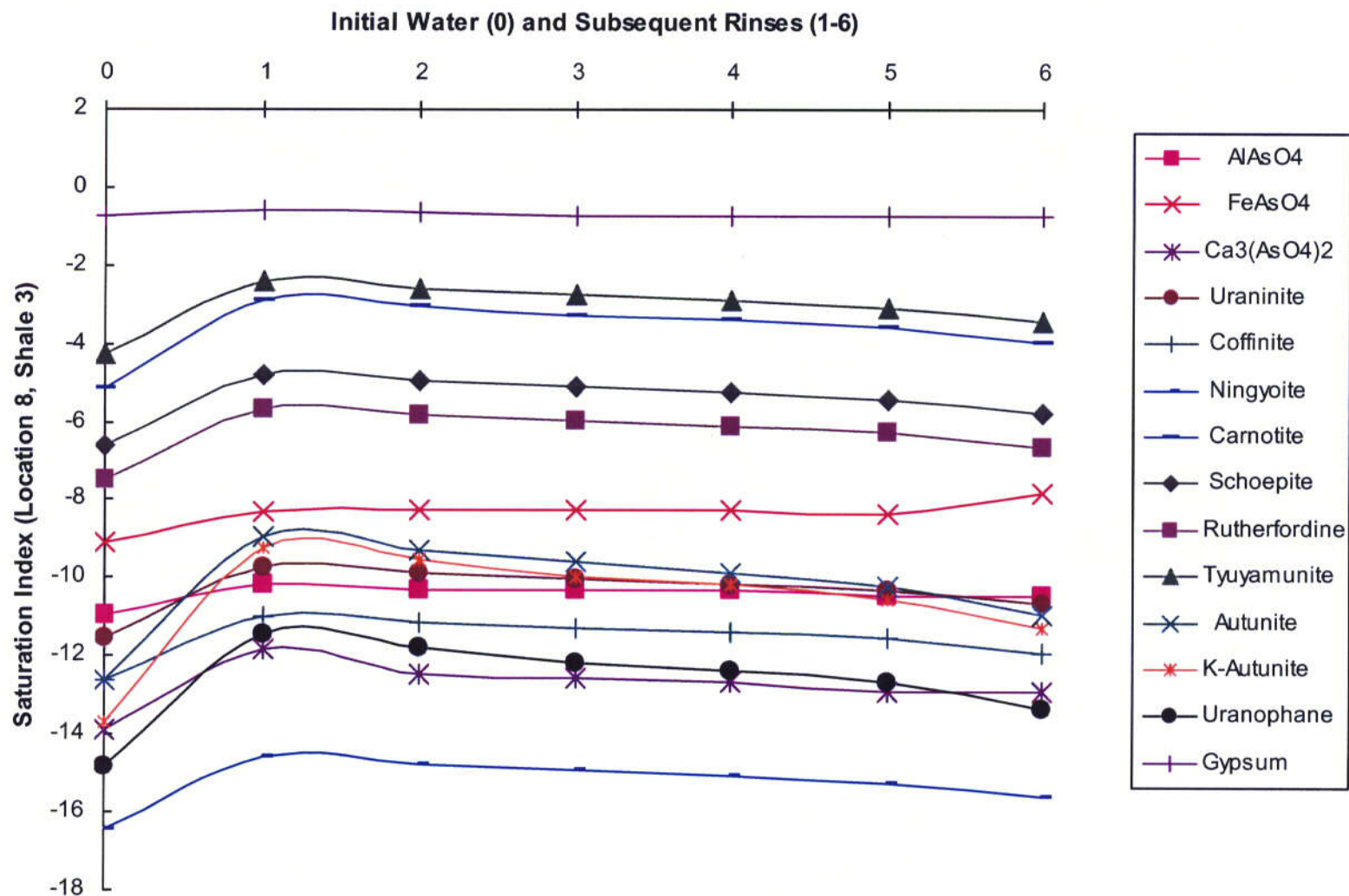
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FIGURE 5-4
MINERAL SATURATION INDICES FOR THE SHALE 1 (LOCATION 7)
BATCH TEST SOLUTIONS

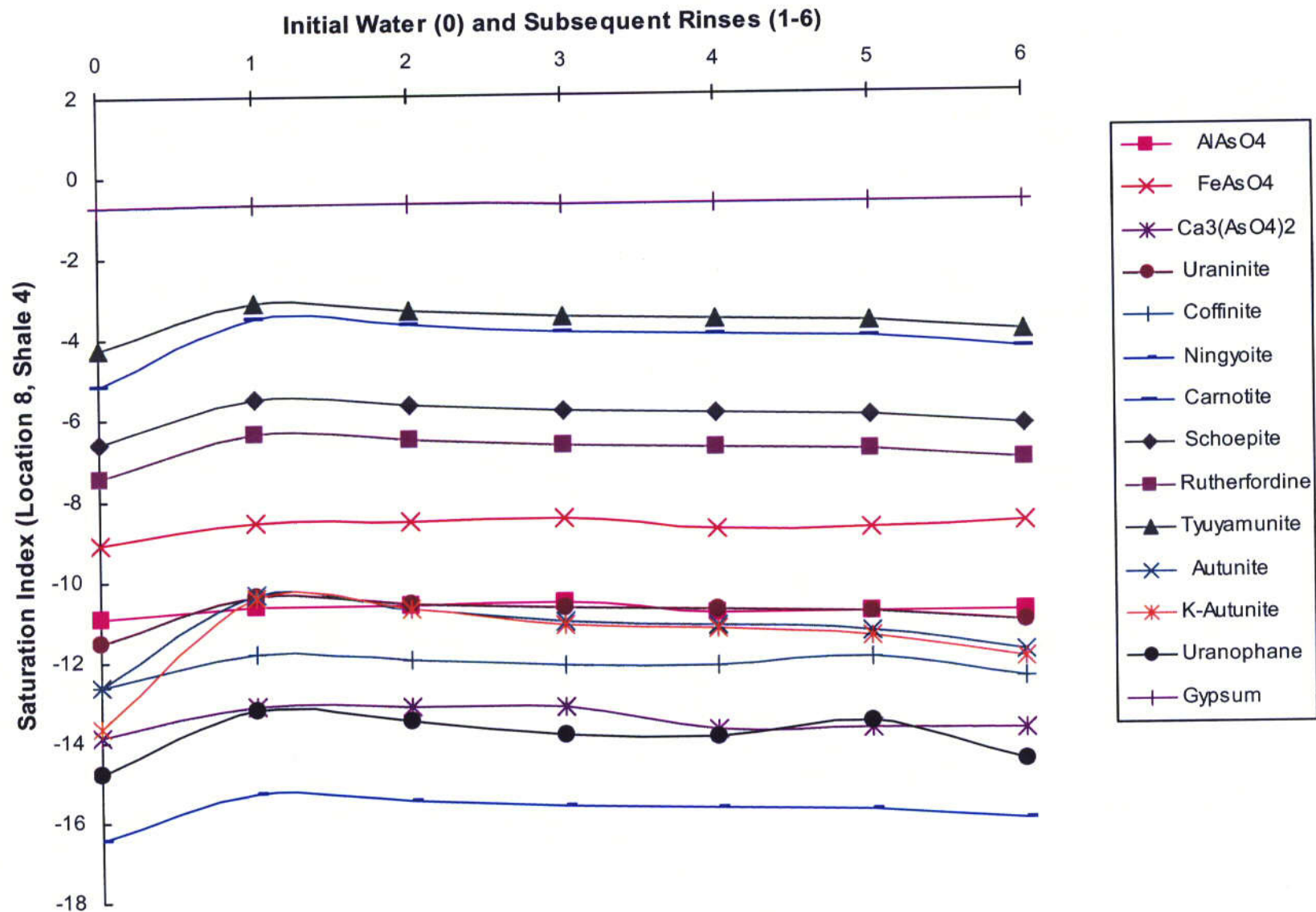
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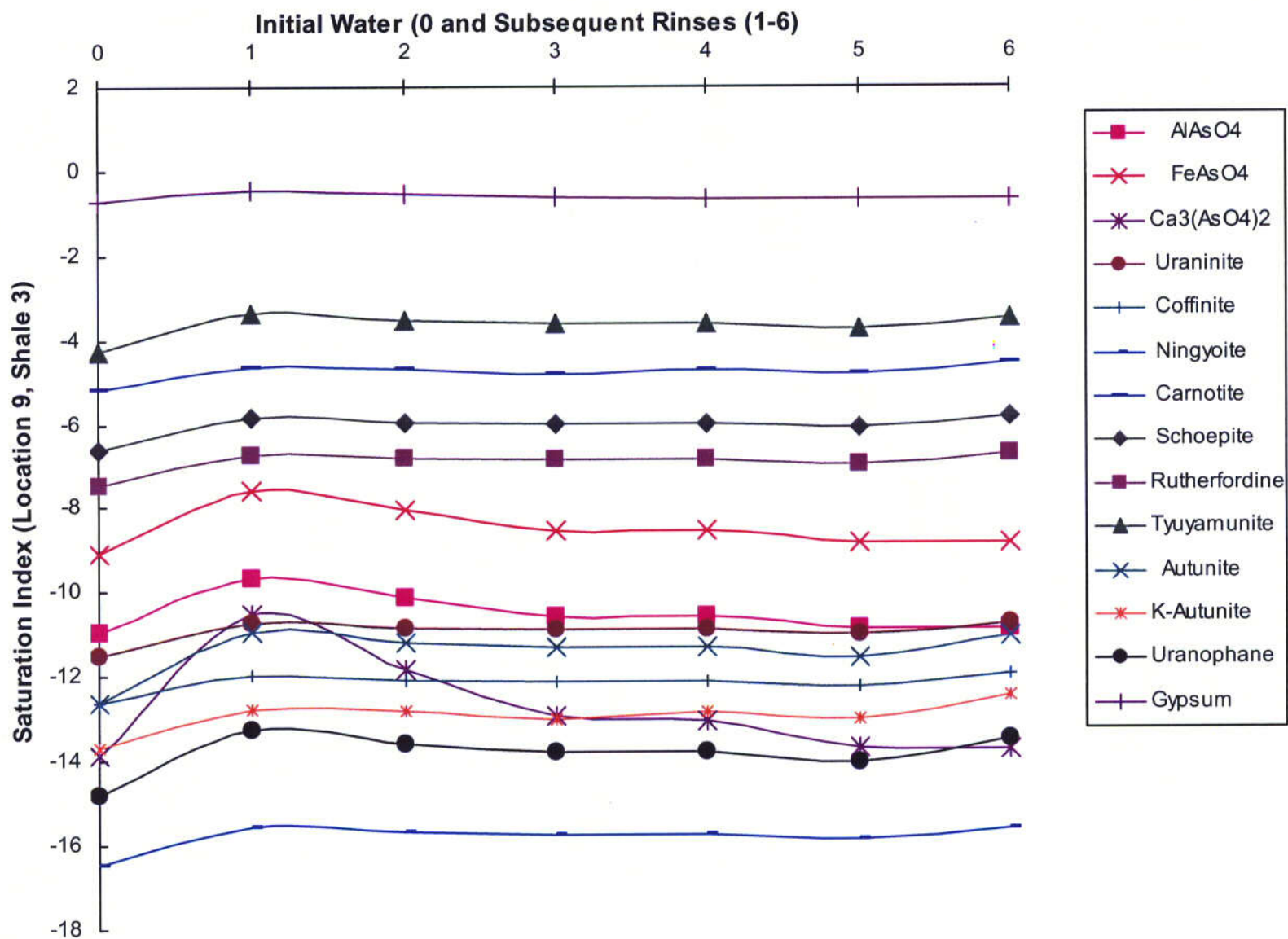


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c09

FIGURE 5-7
MINERAL SATURATION INDICES FOR THE SHALE 4 (LOCATION 8)
BATCH TEST SOLUTIONS



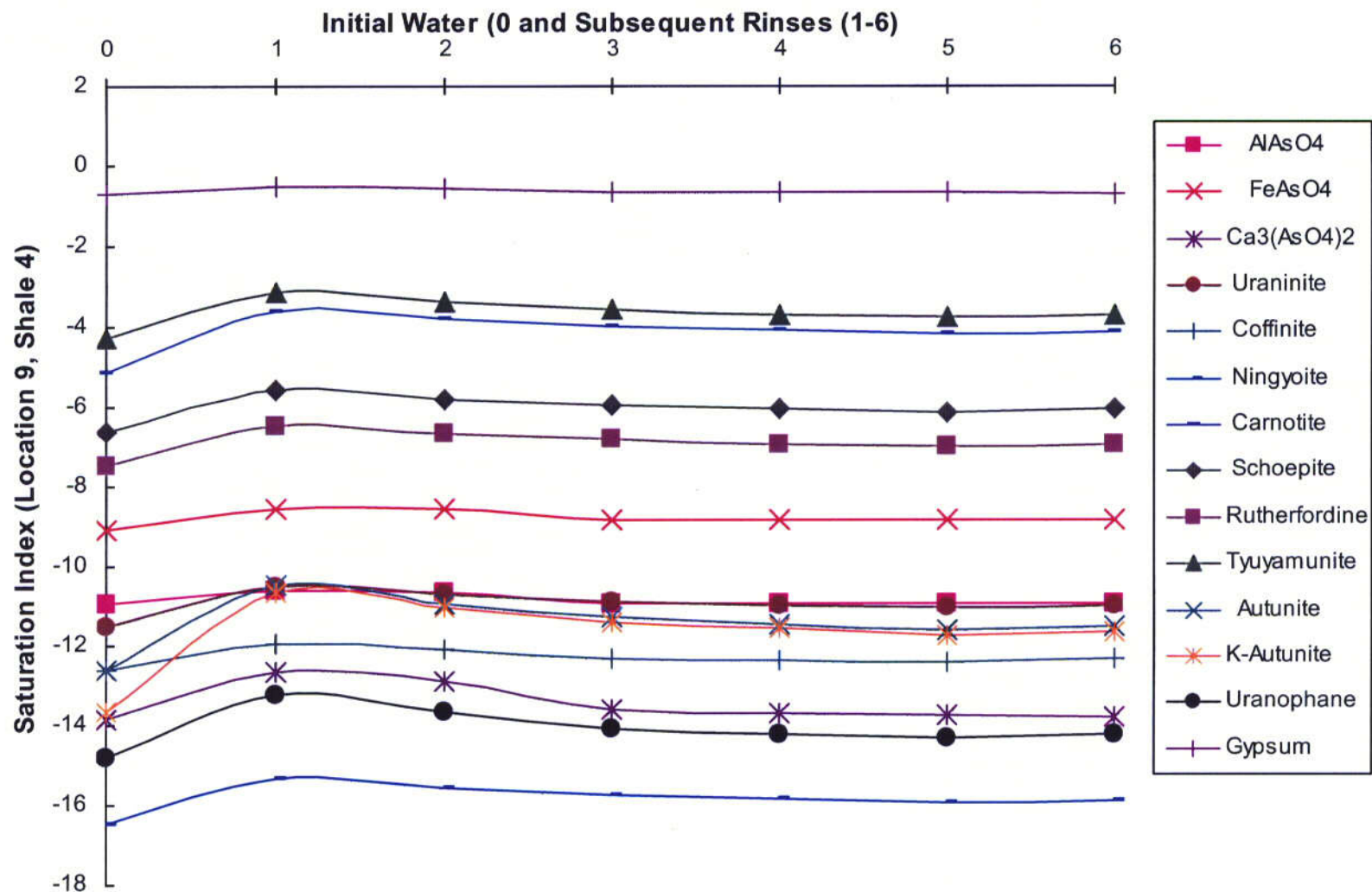
C10



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FIGURE 5-8
MINERAL SATURATION INDICES FOR THE SHALE 3 (LOCATION 9)
BATCH TEST SOLUTIONS

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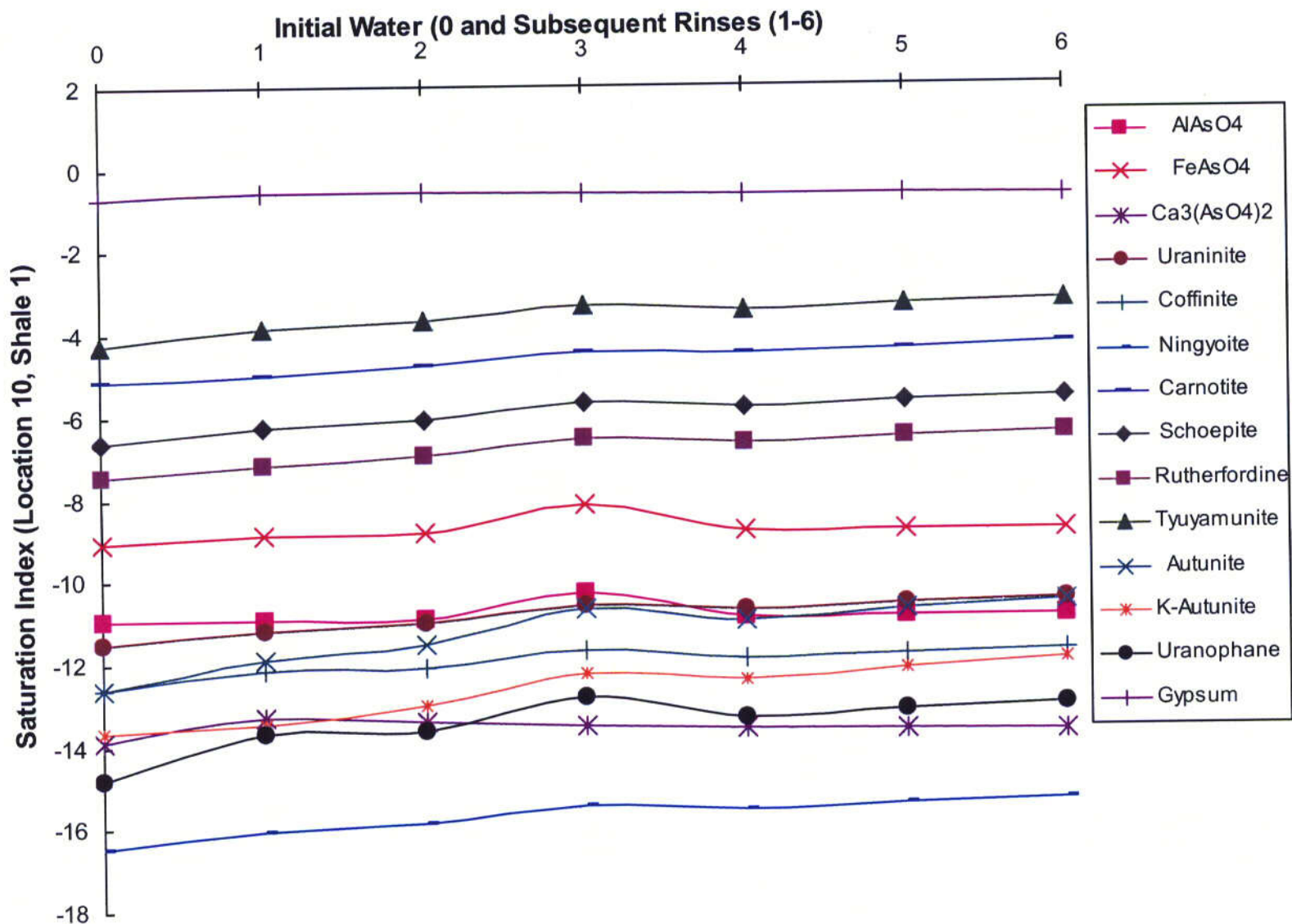
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FIGURE 5-9
MINERAL SATURATION INDICES FOR THE SHALE 4 (LOCATION 9)
BATCH TEST SOLUTIONS

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FIGURE 5-10
MINERAL SATURATION INDICES FOR THE SHALE 1 (LOCATION 10)
BATCH TEST SOLUTIONS

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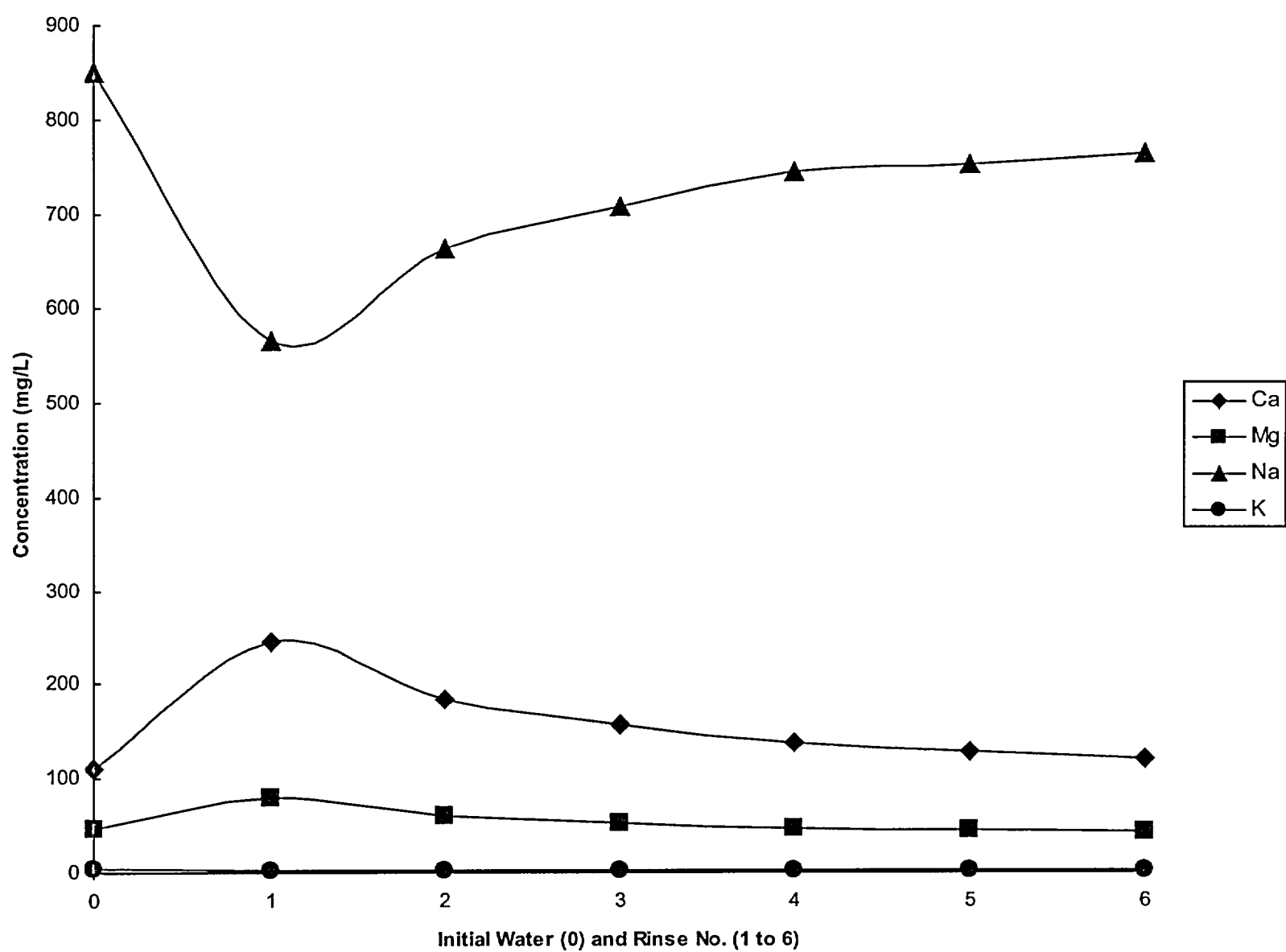


FIGURE 5-11
EXAMPLE OF MAJOR ION CHEMISTRY CHANGES DURING THE K_d
BATCH TESTING



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File: ISOPLETH.ppt

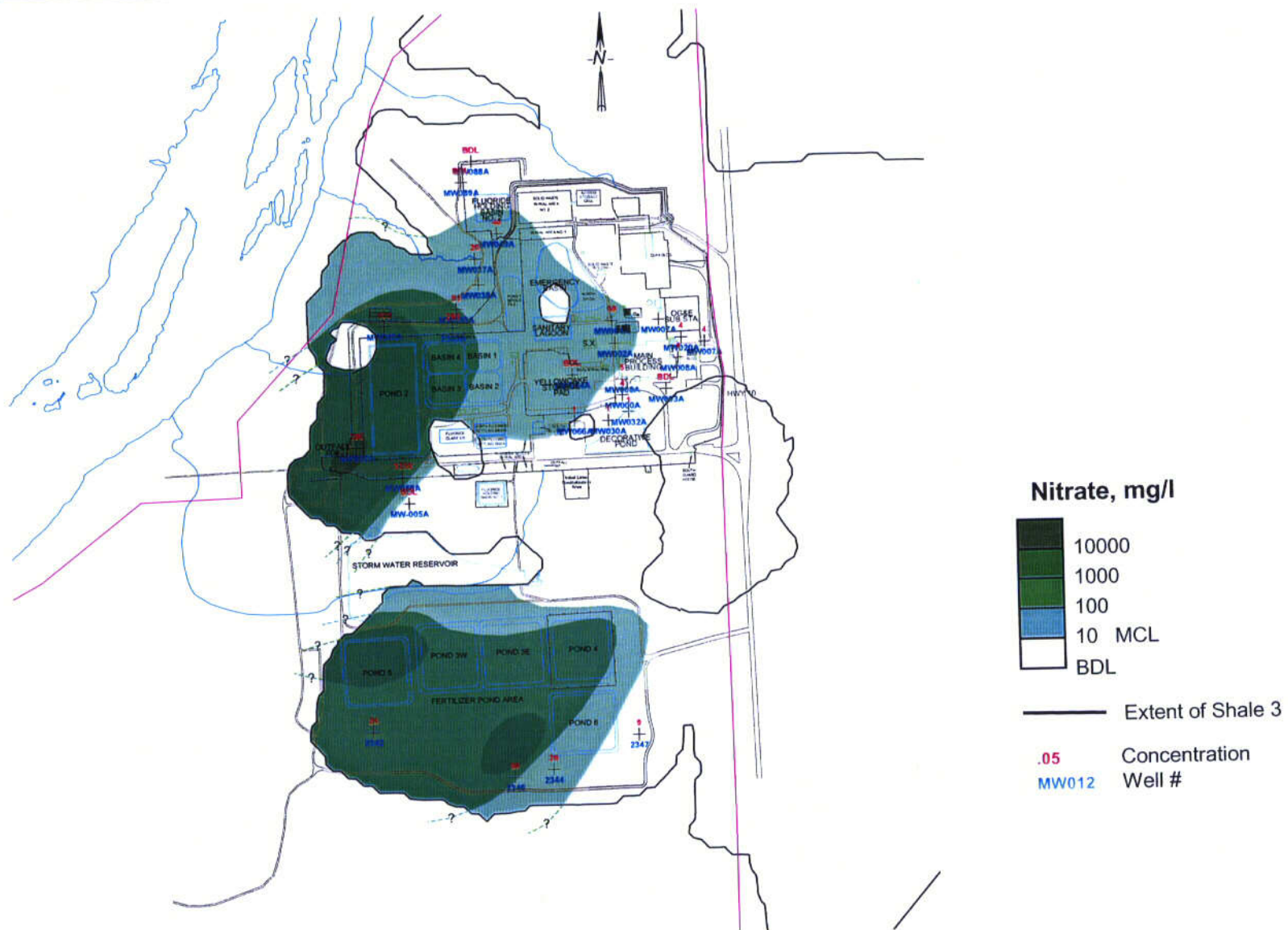
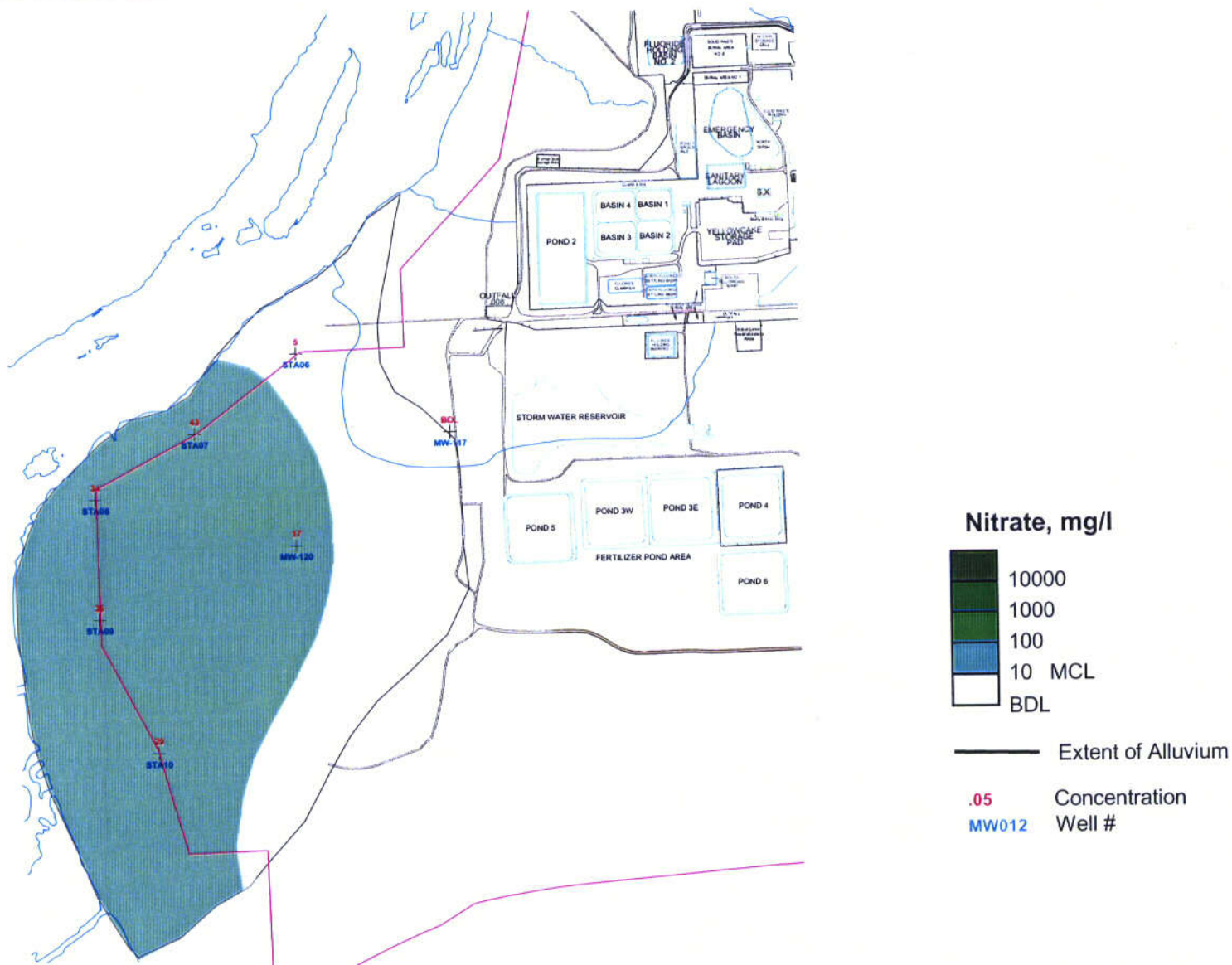


FIGURE 5-14
ISOPLETH OF NITRATE CONCENTRATIONS IN SHALE 3
2001 GROUNDWATER SAMPLING





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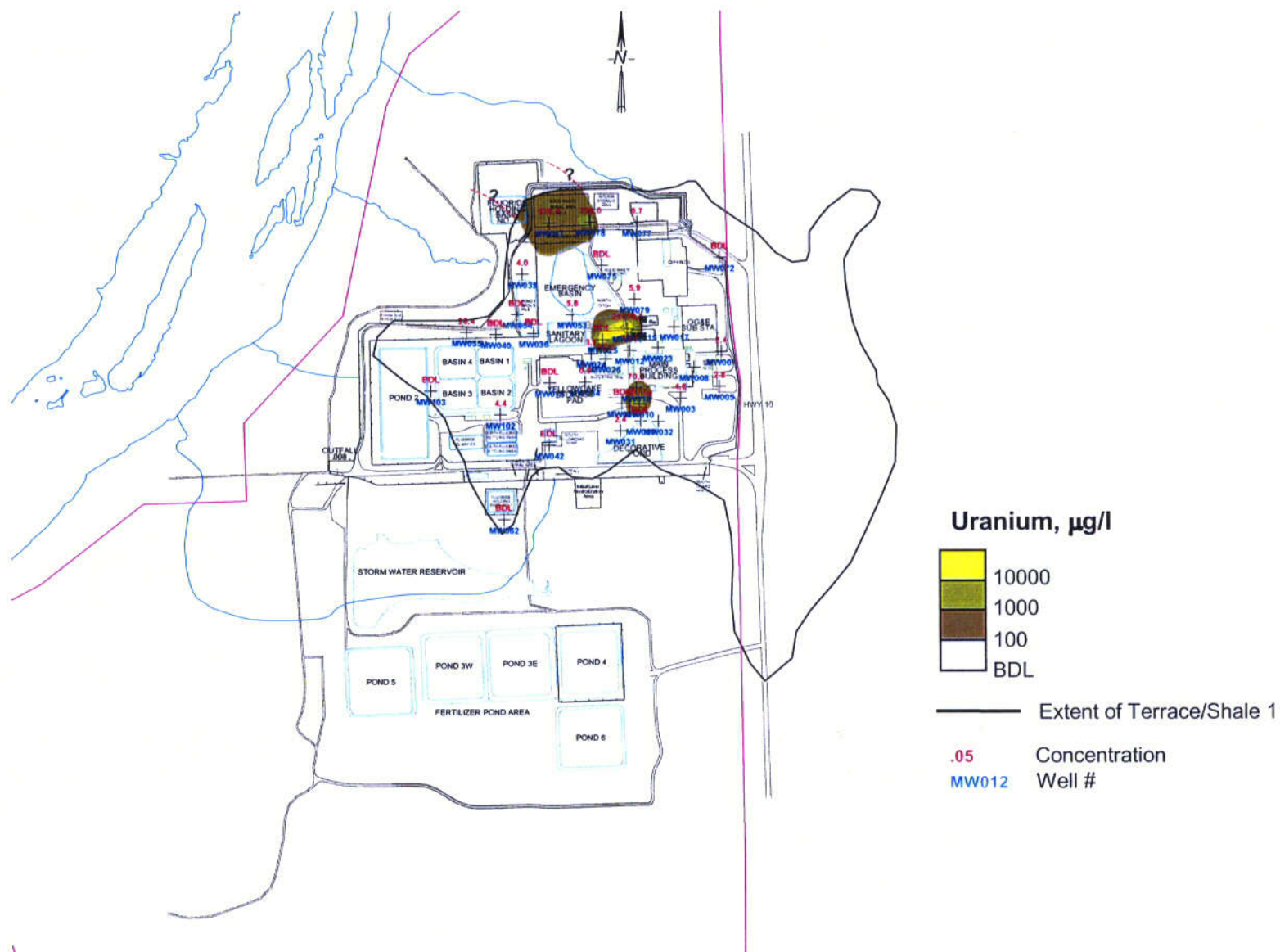
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FIGURE 5-17
ISOPLETH OF NITRATE CONCENTRATIONS IN ALLUVIUM
2001 GROUNDWATER SAMPLING

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Project: P:\100734-2\REV CHAR RPT

File: ISOPLETH.ppt



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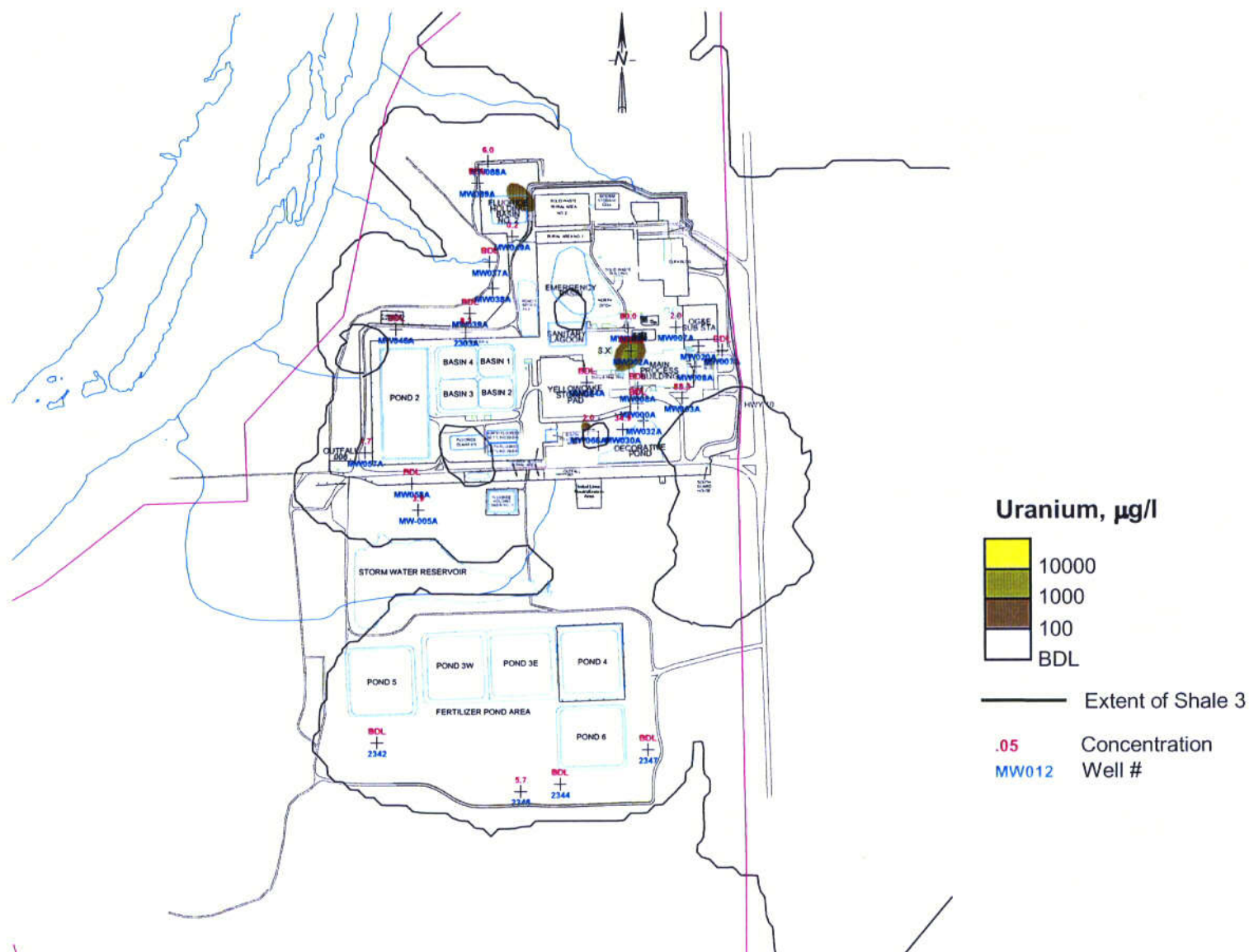
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FIGURE 5-18
ISOPLETH OF URANIUM CONCENTRATIONS IN TERRACE/SHALE 1
2001 GROUNDWATER SAMPLING

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File: ISOPLETH.ppt



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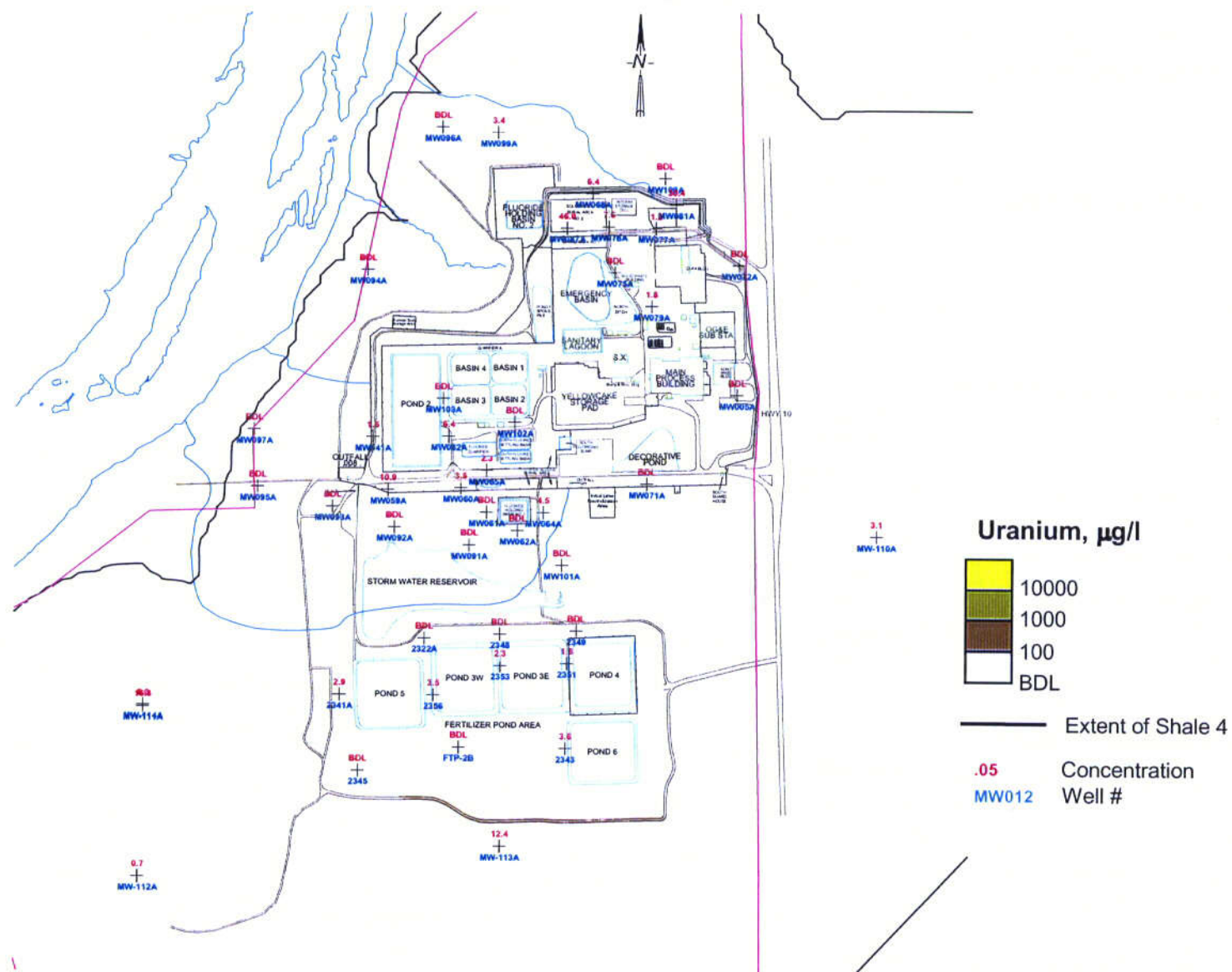
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FIGURE 5-20
ISOPLETH OF URANIUM CONCENTRATIONS IN SHALE 3
2001 GROUNDWATER SAMPLING

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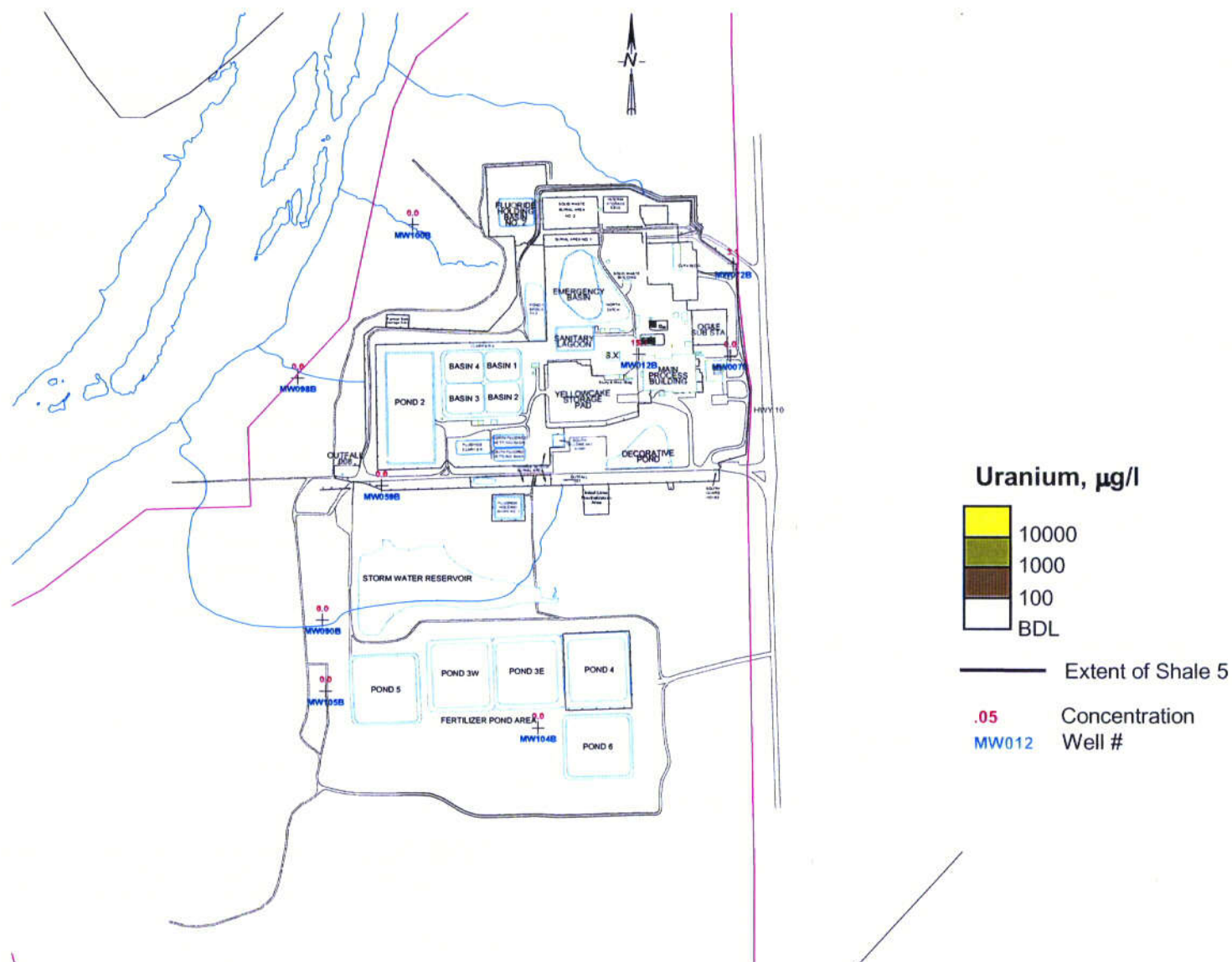
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FIGURE 5-21
ISOPLETH OF URANIUM CONCENTRATIONS IN SHALE 4
2001 GROUNDWATER SAMPLING

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File: ISOPLETH.ppt



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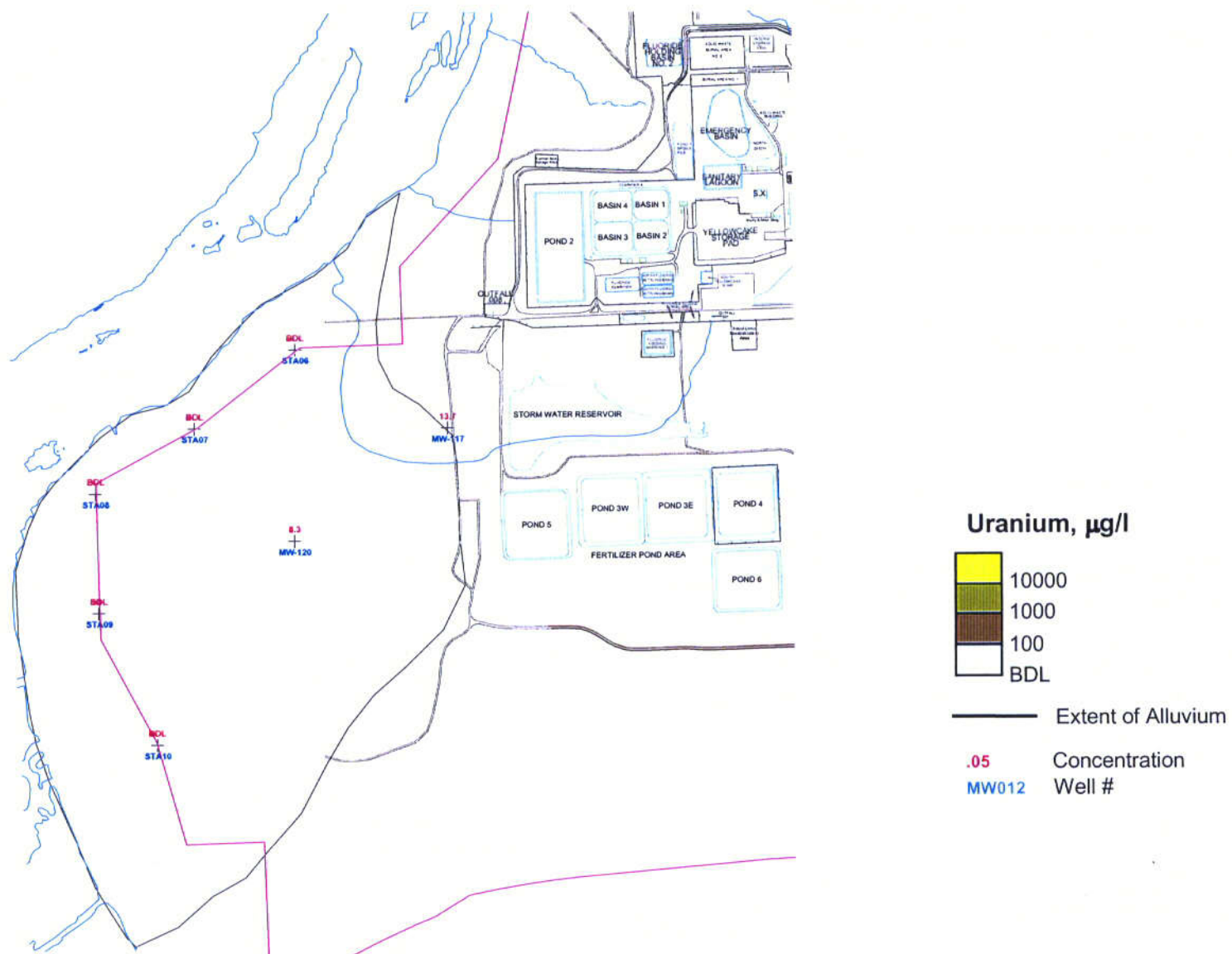
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FIGURE 5-22
ISOPLETH OF URANIUM CONCENTRATIONS IN SHALE 5
2001 GROUNDWATER SAMPLING

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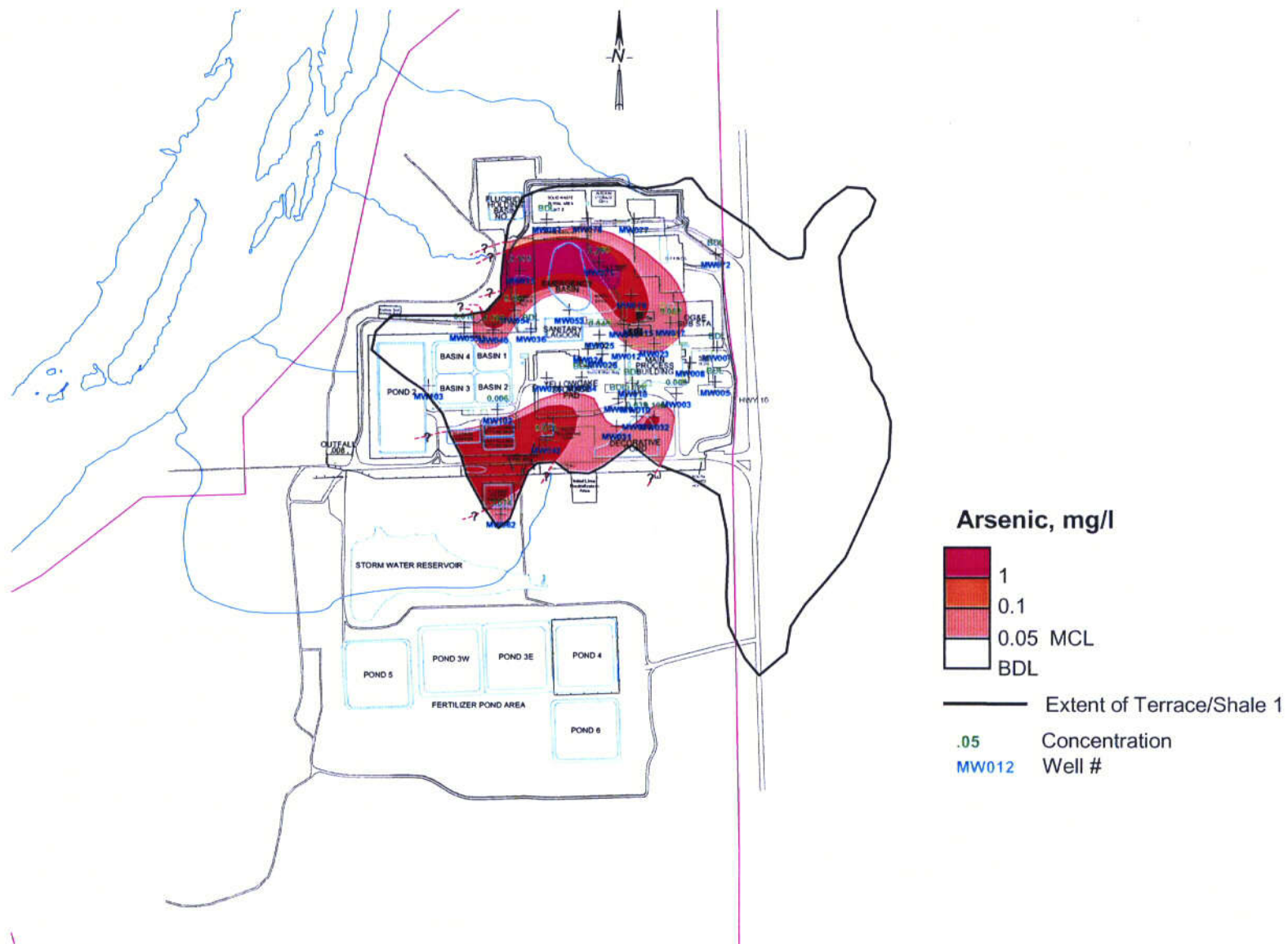
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FIGURE 5-23
ISOPLETH OF URANIUM CONCENTRATIONS IN ALLUVIUM
2001 GROUNDWATER SAMPLING

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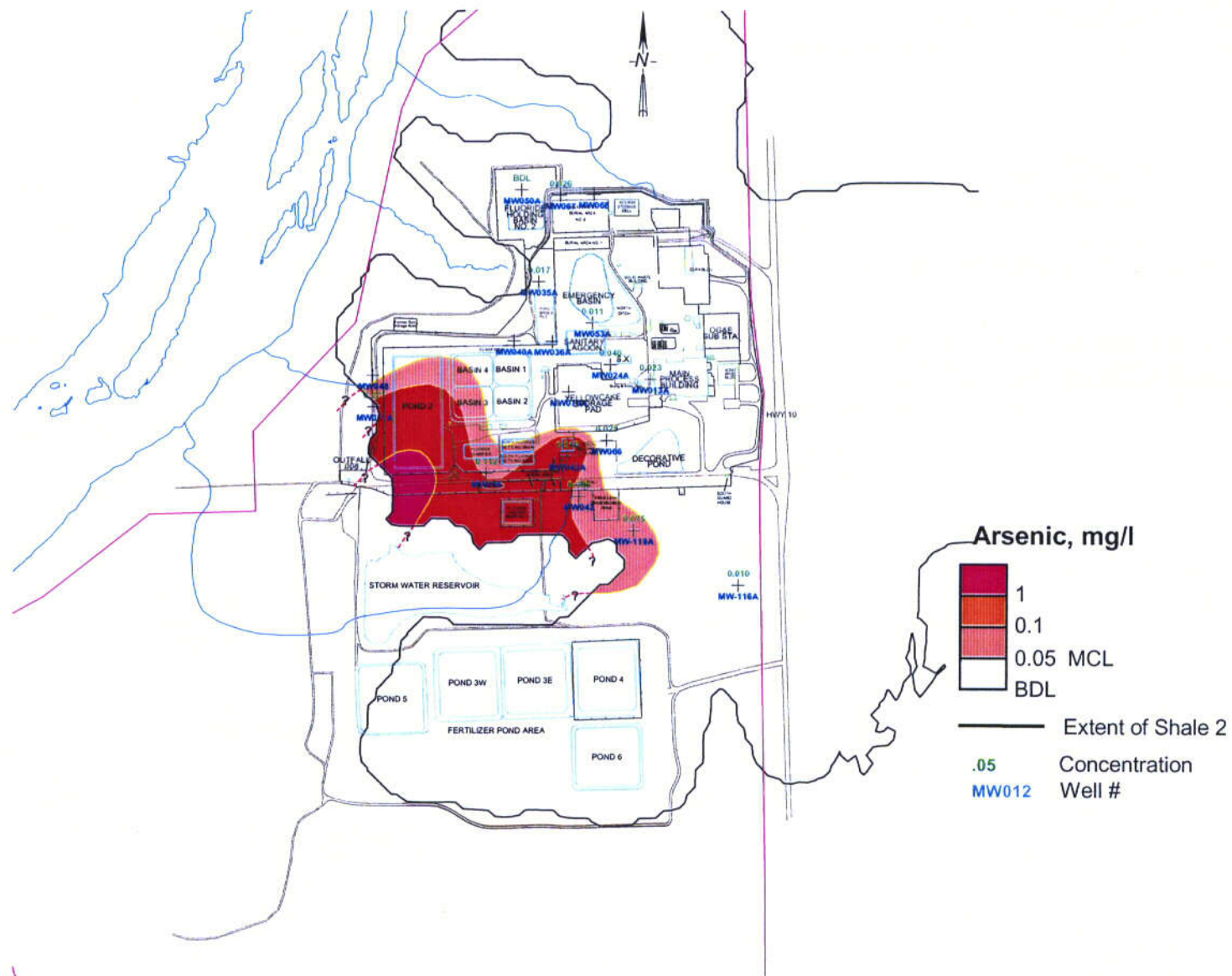
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FIGURE 5-24
ISOPLETH OF ARSENIC CONCENTRATIONS IN TERRACE/SHALE 1
2001 GROUNDWATER SAMPLING

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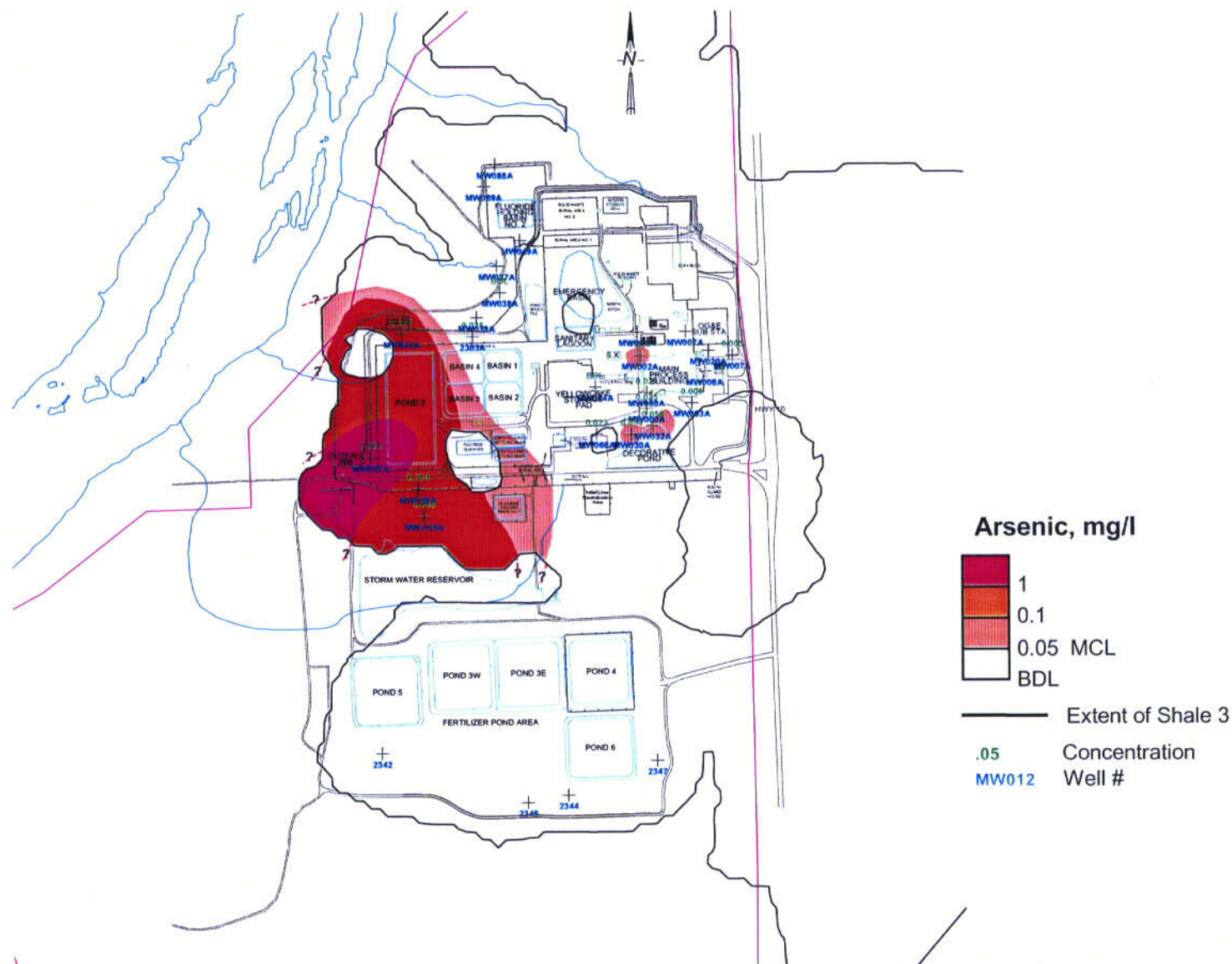
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FIGURE 5-25
ISOPLETH OF ARSENIC CONCENTRATIONS IN SHALE 2
2001 GROUNDWATER SAMPLING

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FIGURE 5-26
ISOPLETH OF ARSENIC CONCENTRATIONS IN SHALE 3
2001 GROUNDWATER SAMPLING

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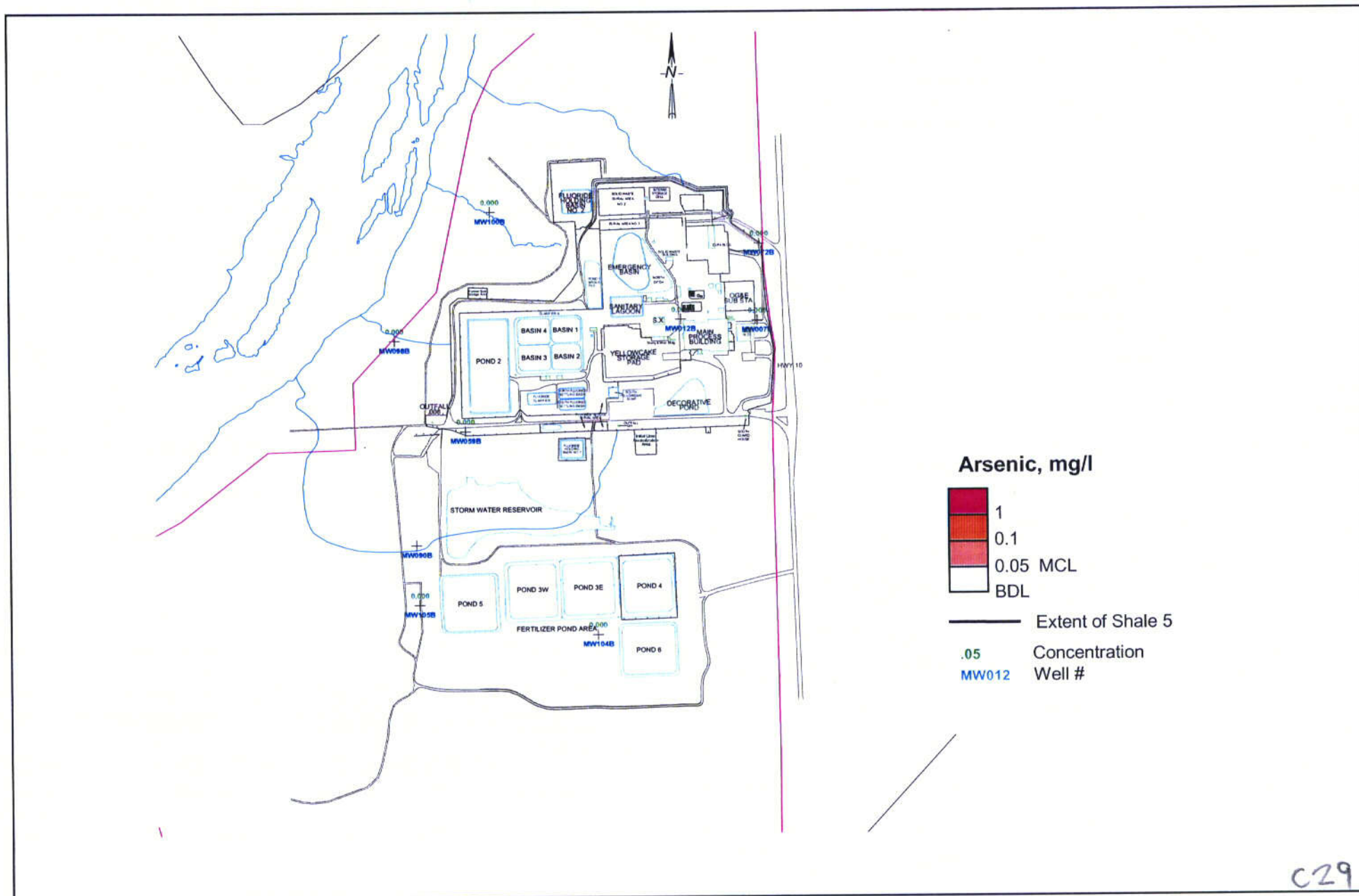


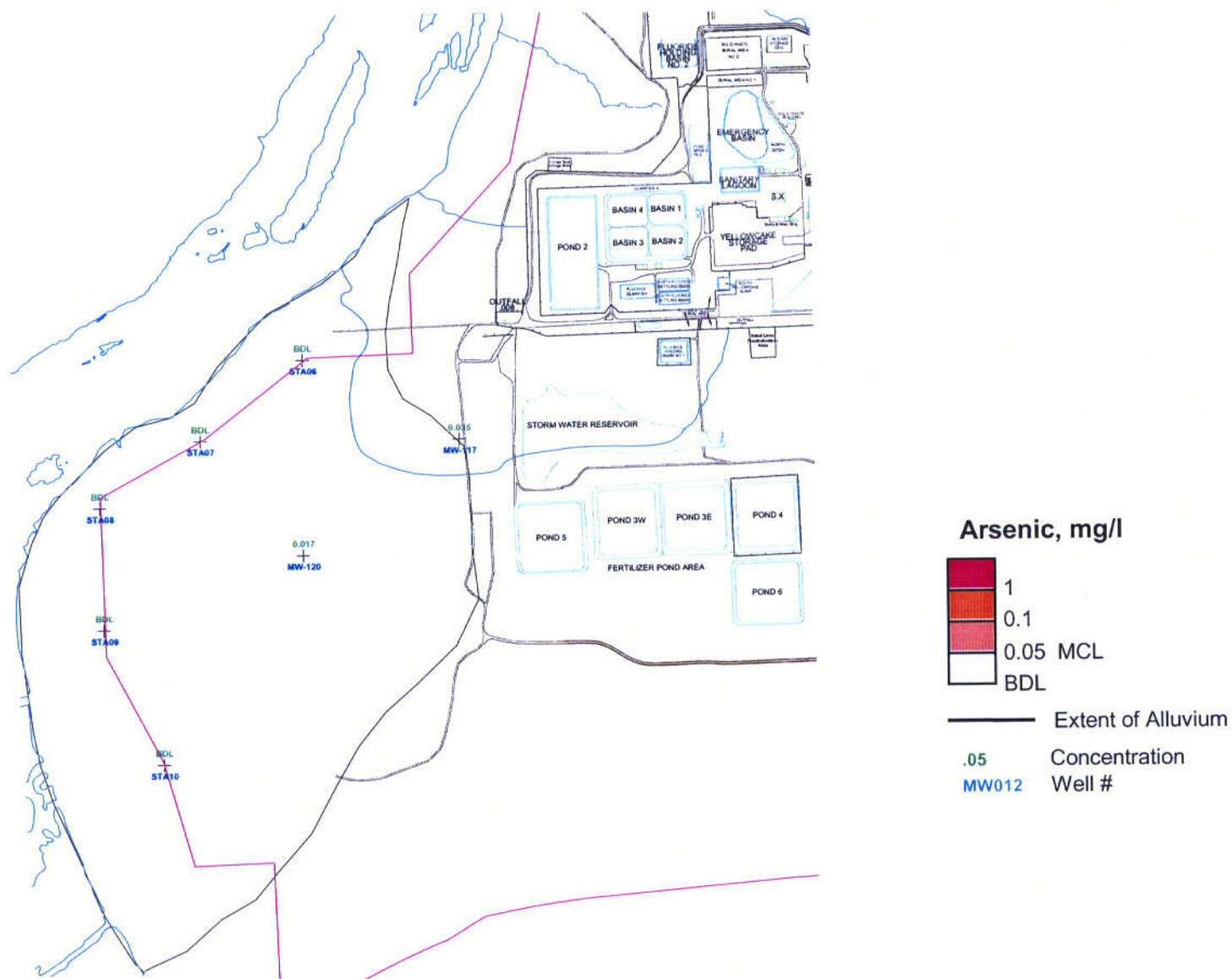
FIGURE 5-28
ISOPLETH OF ARSENIC CONCENTRATIONS IN SHALE 5
2001 GROUNDWATER SAMPLING

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File: ISOPLETH.ppt



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FIGURE 5-29
ISOPLETH OF ARSENIC CONCENTRATIONS IN ALLUVIUM
2001 GROUNDWATER SAMPLING

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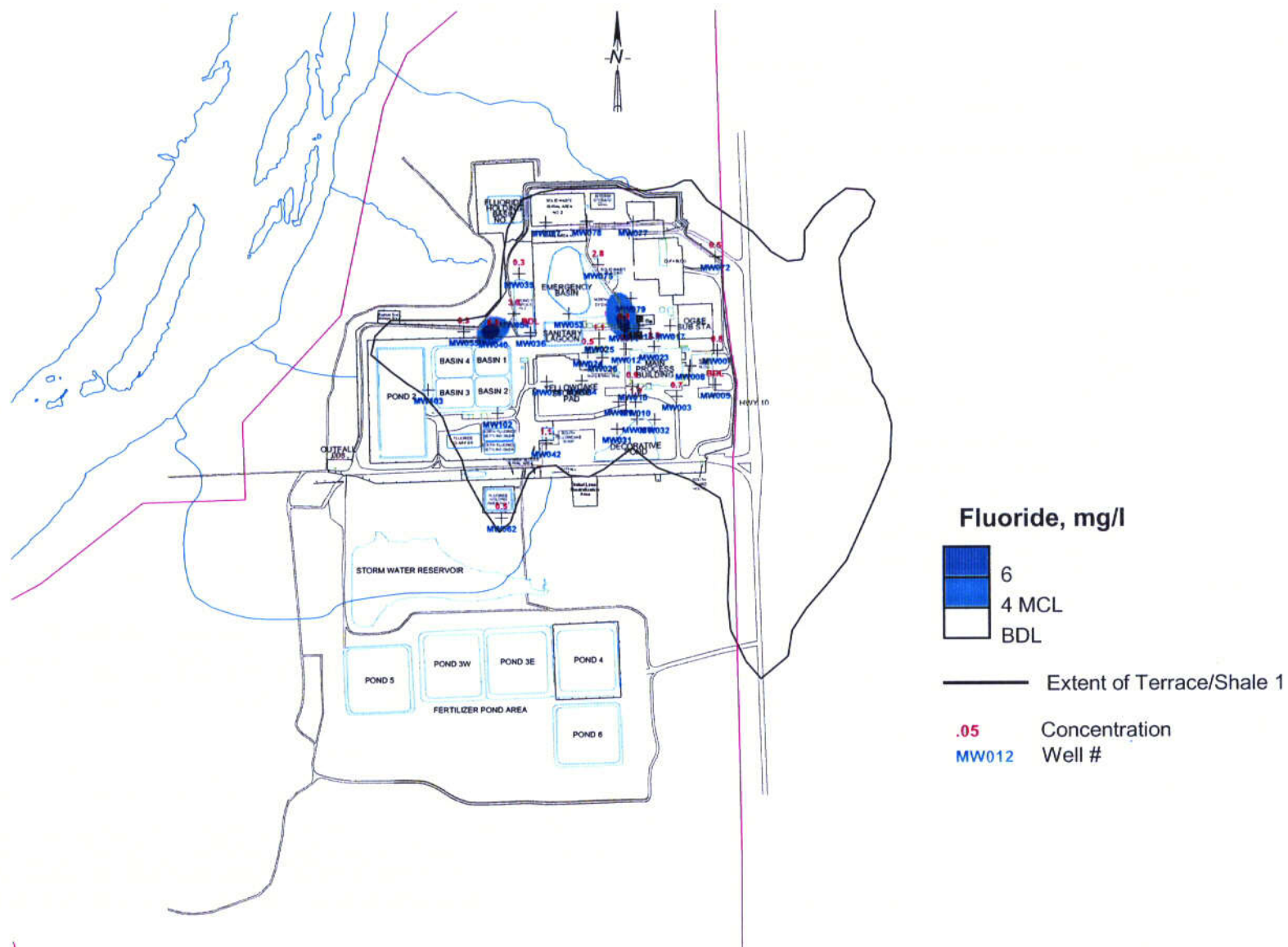
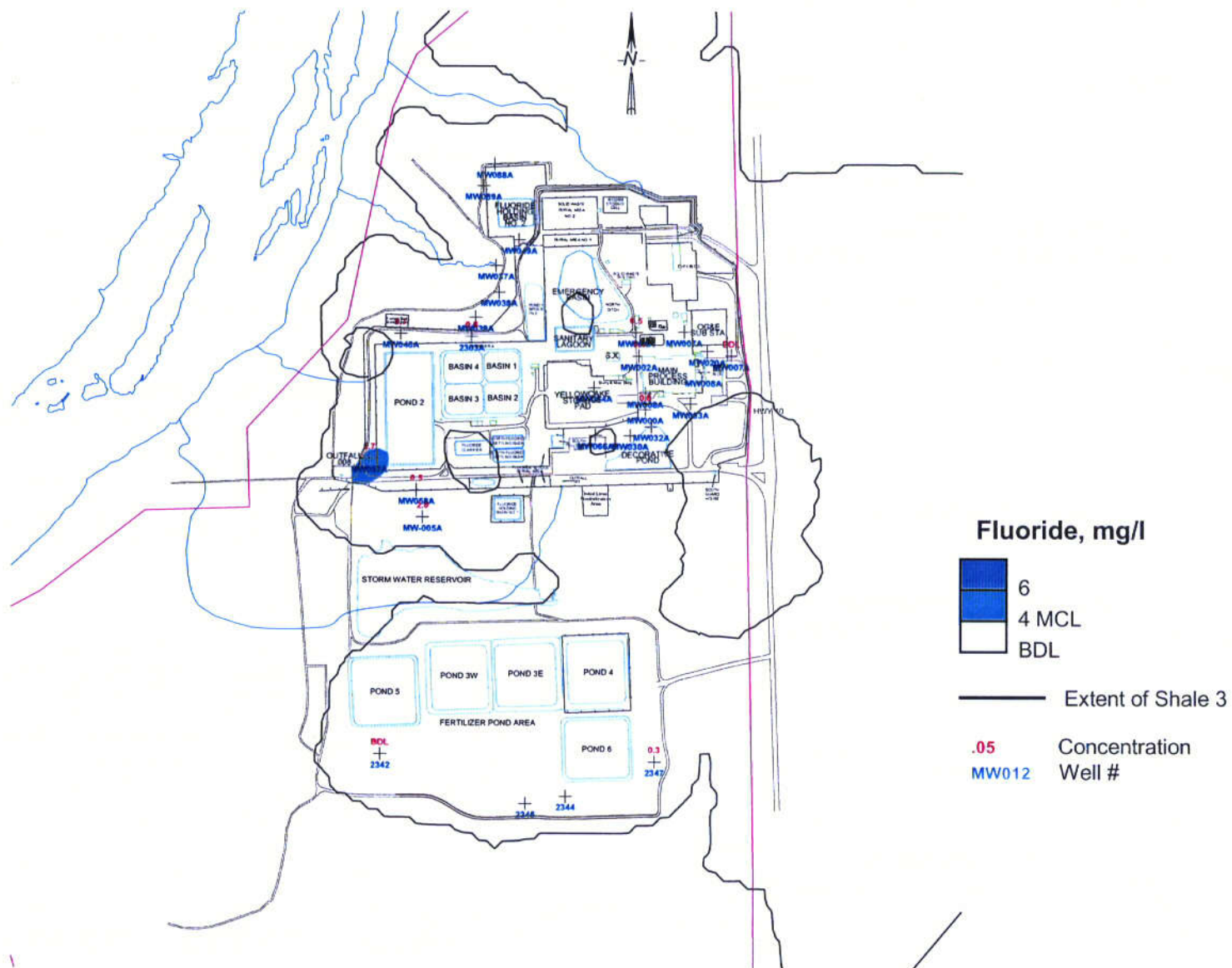


FIGURE 5-30
ISOPLETH OF FLUORIDE CONCENTRATIONS IN TERRACE/SHALE 1
2001 GROUNDWATER SAMPLING

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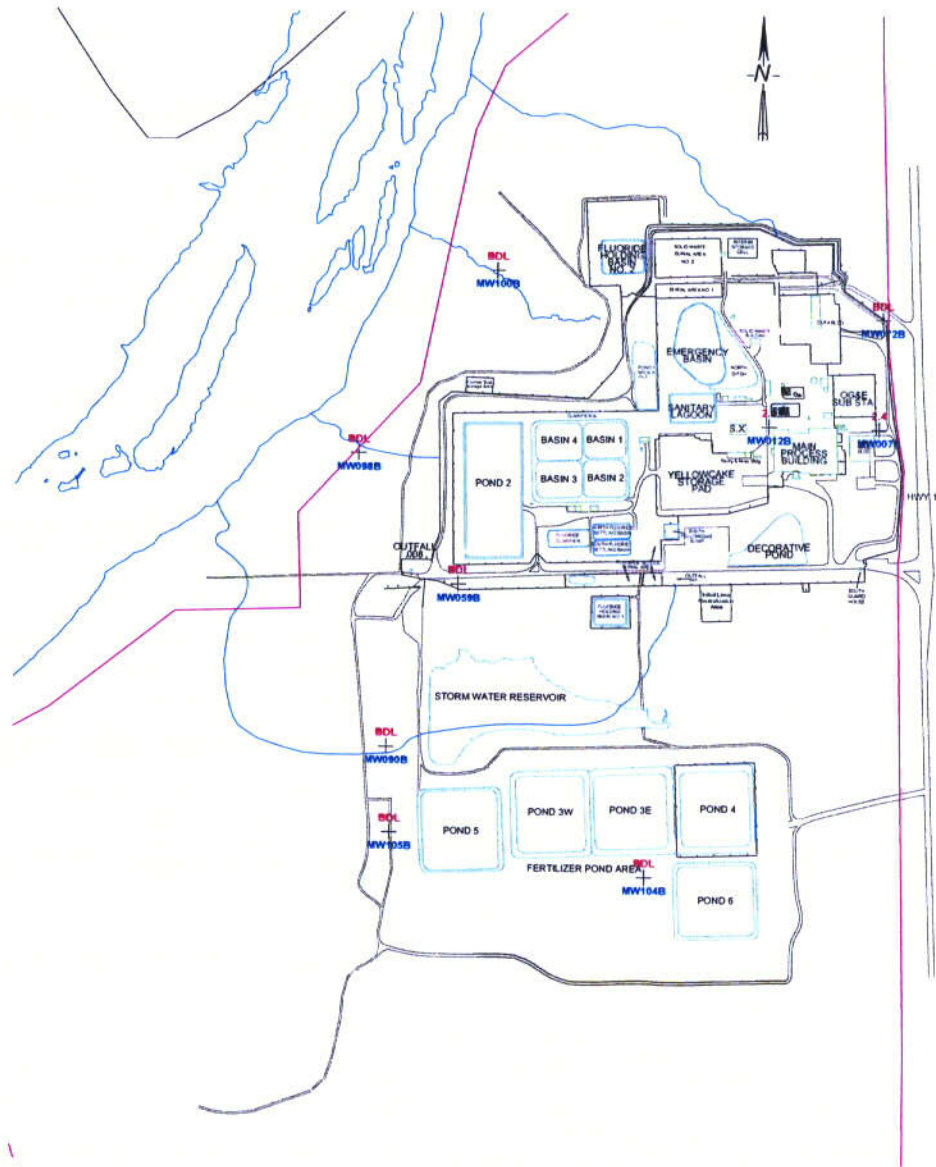
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File: ISOPLETH.ppt



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FIGURE 5-32
ISOPLETH OF FLUORIDE CONCENTRATIONS IN SHALE 3
2001 GROUNDWATER SAMPLING



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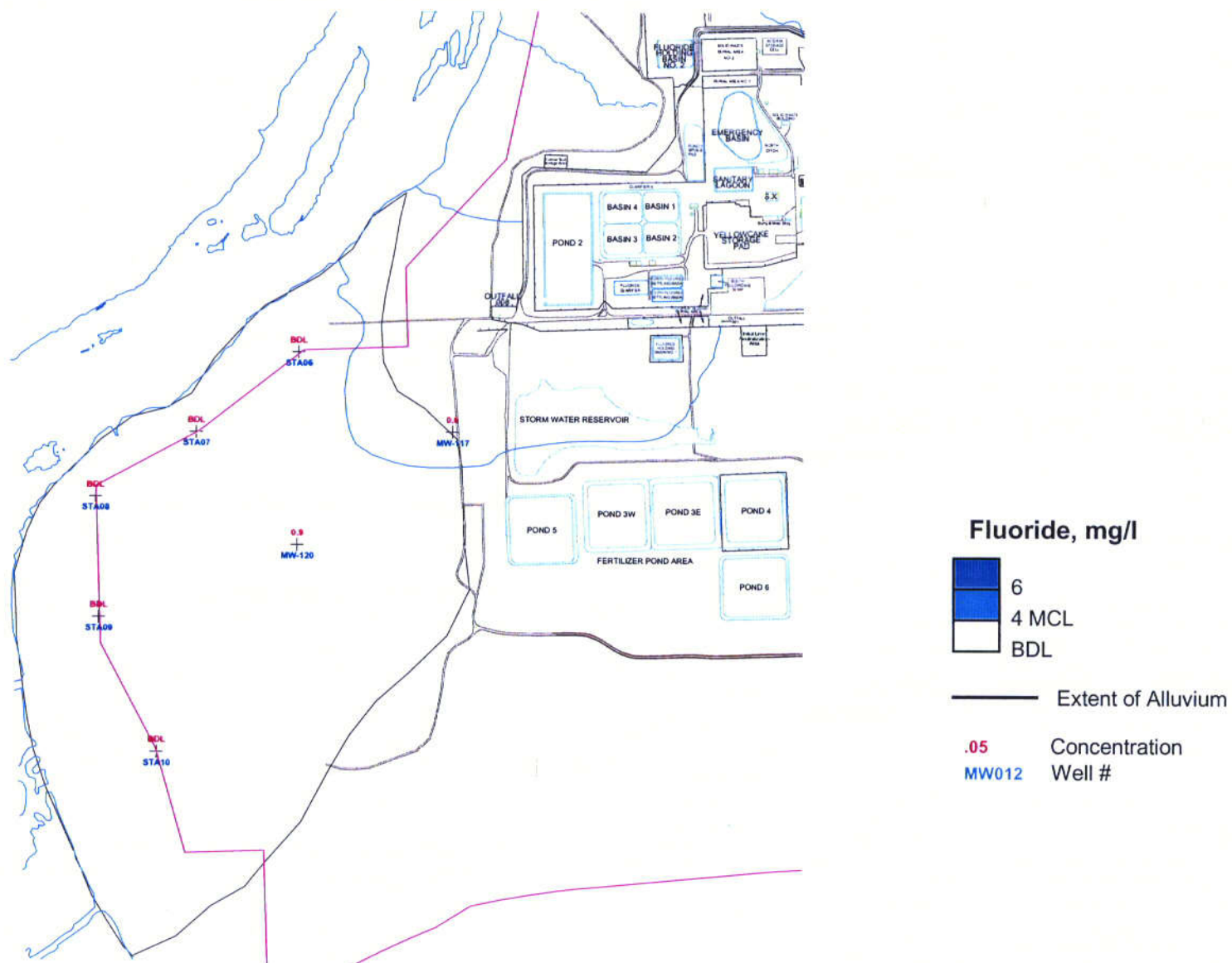
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FIGURE 5-34
ISOPLETH OF FLUORIDE CONCENTRATIONS IN SHALE 5
2001 GROUNDWATER SAMPLING

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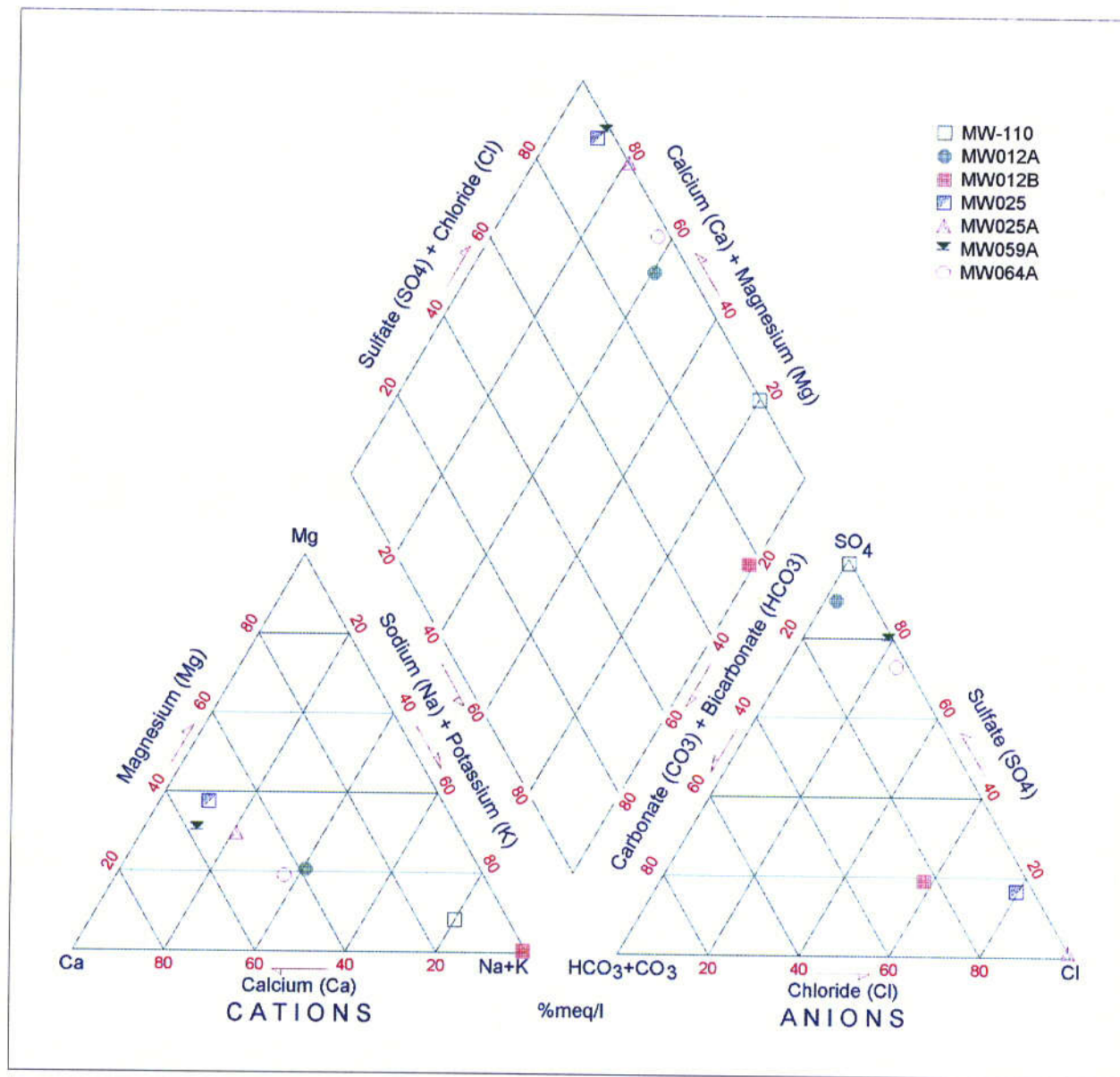
C36



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FIGURE 5-35
ISOPLETH OF FLUORIDE CONCENTRATIONS IN ALLUVIUM
2001 GROUNDWATER SAMPLING

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File:	ISOPLETH.ppt



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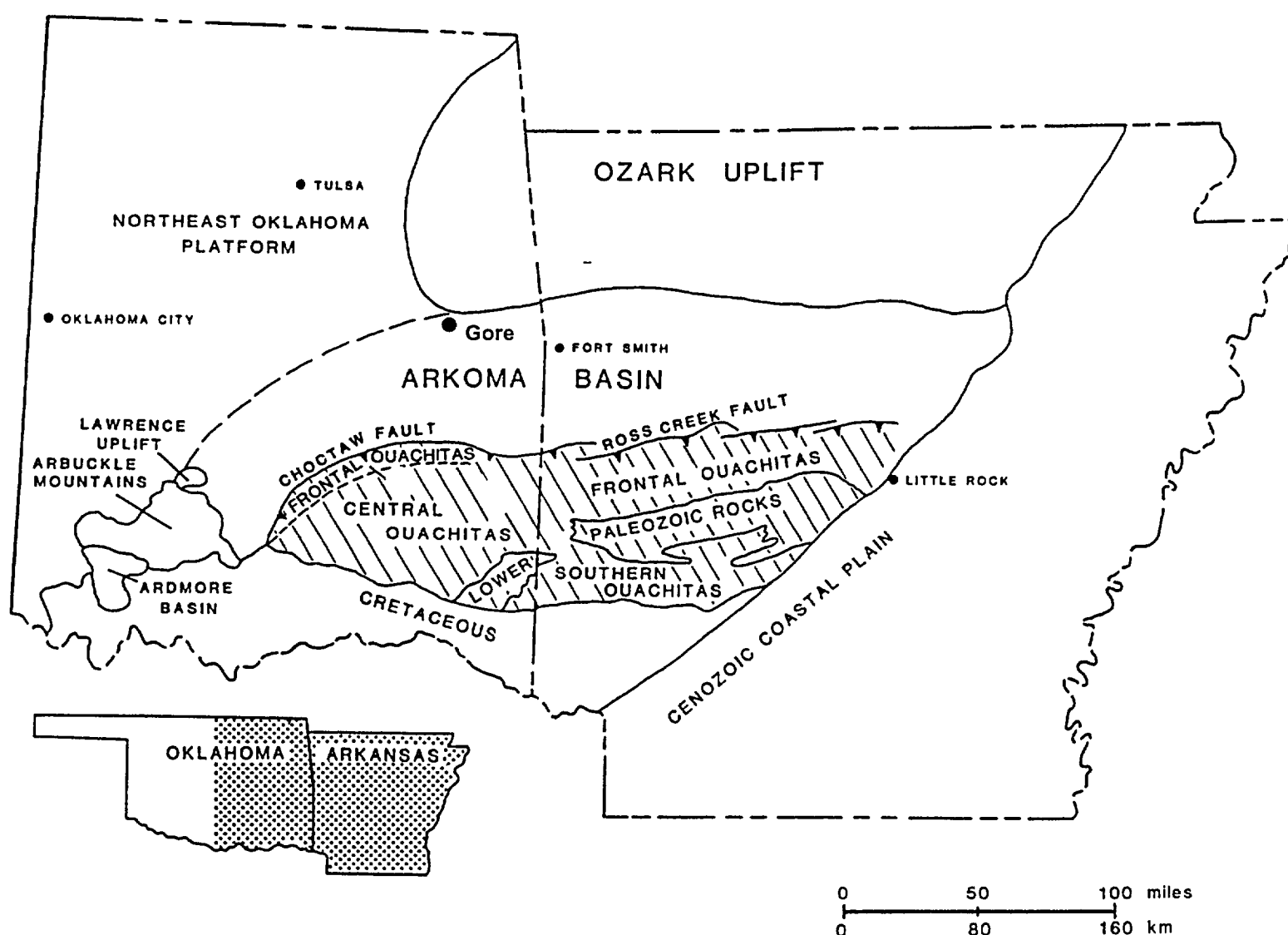
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FIGURE 5-36
TRILINEAR DIAGRAM FOR SELECTED WELL WATERS

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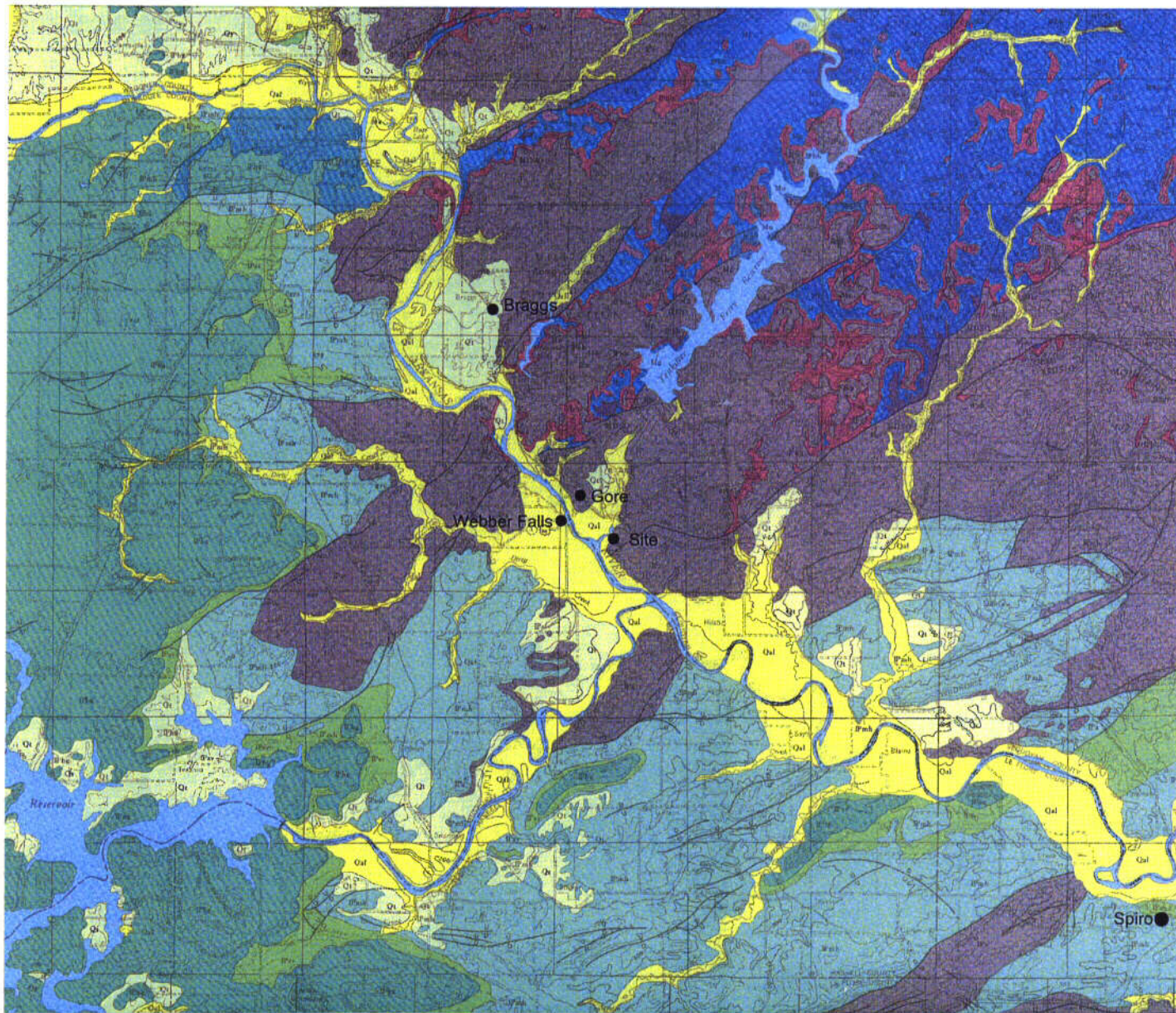
After Sutherland, 1988



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FIGURE 6-1
REGIONAL GEOLOGIC PROVINCES

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After
Munchin,
1965

C38

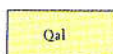


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FIGURE 6-2
REGIONAL GEOLOGIC MAP

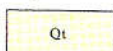
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Explanation



ALLUVIUM

Gravel, sand, silt, and clay. Yields large amounts of water of good quality along the Arkansas River and probably will yield moderate to large amounts along the Canadian River.



TERRACE DEPOSITS

Gravel, sand, silt, and clay. Yield moderate to large amounts of water of good quality locally along the Arkansas River; smaller amounts elsewhere.



BOGGY FORMATION

Shale, sandstone, and coal; includes Bluejacket Sandstone Member at base. Yields limited amounts of water of poor quality.



SAVANNA, McALESTER, AND HARTSHORNE FORMATIONS

IPsv *Savanna Formation*, shale, sandstone, and coal. Yields limited amounts of water of poor quality.

IPmh *McAlester and Hartshorne Formations* (undifferentiated), shale, sandstone, and coal. Yield limited amounts of water of poor quality.

IPsm *Savanna and McAlester Formations* (undifferentiated; T. 15 N., Rs. 18, 19 E.), shale and minor sandstones. Yield limited amounts of water of poor quality.



ATOKA, BLOYD, AND HALE FORMATIONS

IPu Undifferentiated.

IPa *Atoka Formation*, shale and sandstone. Yields limited amounts of water of poor quality.

IPbh *Bloyd Formation*, shale and limestone; and *Hale Formation*, limestone and sandstone. Probably will yield only small amounts of water of fair to poor quality.



MISSISSIPPIAN ROCKS ABOVE CHATTANOOGA SHALE

Mu Undifferentiated.

Mp *Pitkin Formation*, limestone; *Fayetteville Formation*, shale and limestone; *Hindsville Formation*, limestone and shale; and *Moorefield Formation*, limestone.

Mkr *Keokuk Formation*, chert; *Reeds Spring Formation*, chert and limestone; and *St. Joe "Group,"* limestone and marlstone.

Yield small to moderate amounts of water of fair to good quality.



MISSISSIPPIAN, DEVONIAN, SILURIAN, AND ORDOVICIAN ROCKS, UNDIFFERENTIATED

Mississippian and Devonian. *Chattanooga Shale*, shale.

Devonian. *Sallisaw Formation*, limestone, sandstone, and chert; and *Frisco Formation*, limestone.

Silurian. *Quarry Mountain Formation*, limestone; *Tenkiller Formation*, limestone; and *Blackgum Formation*, limestone and dolomite.

Ordovician. *Sylvan Shale*, shale; *Fernvale Limestone*, limestone; *Fite Limestone*, limestone; *Tyner Formation*, shale, sandstone, dolomite, and limestone; *Burgen Sandstone*, sandstone and minor shales and limestones; and *Cotter Dolomite*, dolomite.

Limestone, dolomite, and sandstone units may yield small to moderate amounts of water of fair to good quality; shale units probably will yield only limited amounts of water of poor to fair quality.

The stratigraphic nomenclature and age determinations used herein are those accepted by the Oklahoma Geological Survey and do not necessarily agree with those of the U. S. Geological Survey.



Fault

Dotted where concealed; U, upthrown side; D, downthrown side

c39



FIGURE 6-2a
EXPLANATION OF GEOLOGIC MAP

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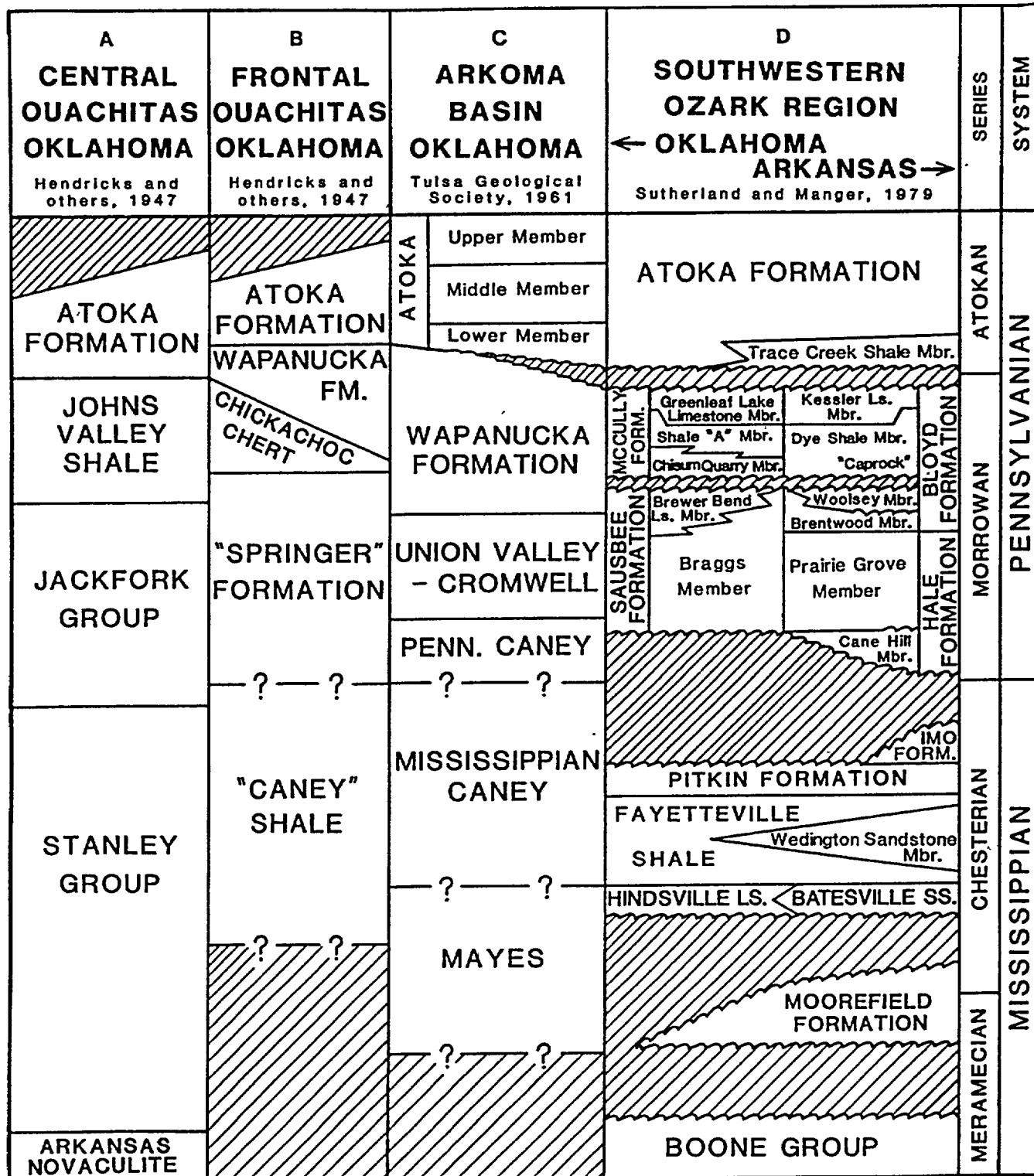
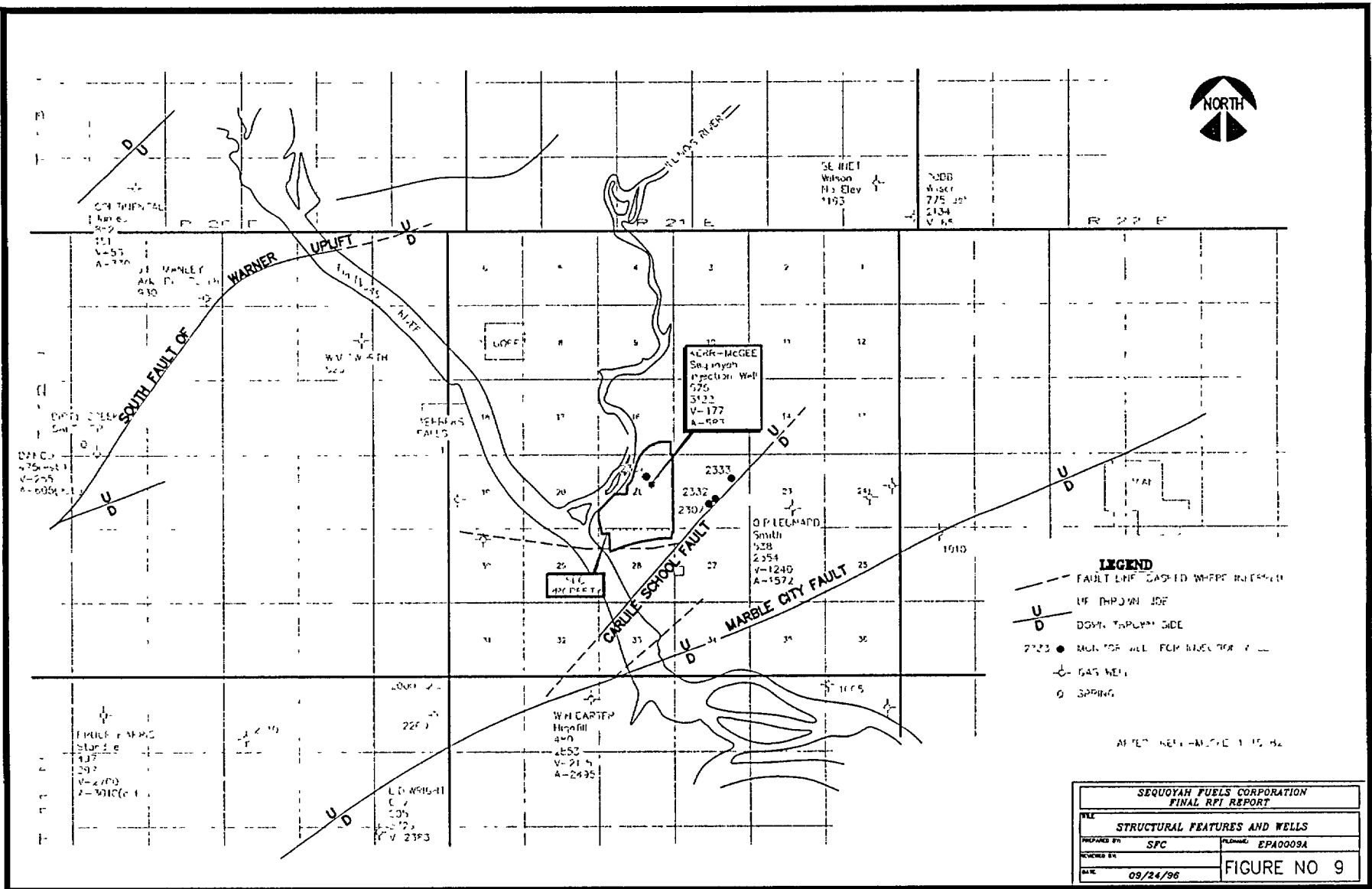


FIGURE 6-3
CORRELATION OF UPPER
MISSISSIPPIAN AND LOWER
PENNSYLVANIAN FORMATIONS

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Project	P.1100734-21REV CHAR RPT
File	SECT6PORTRAIT ppt



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**FIGURE 6-4
LOCATIONS OF LOCAL FAULTS**

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File: SECT 6.ppt

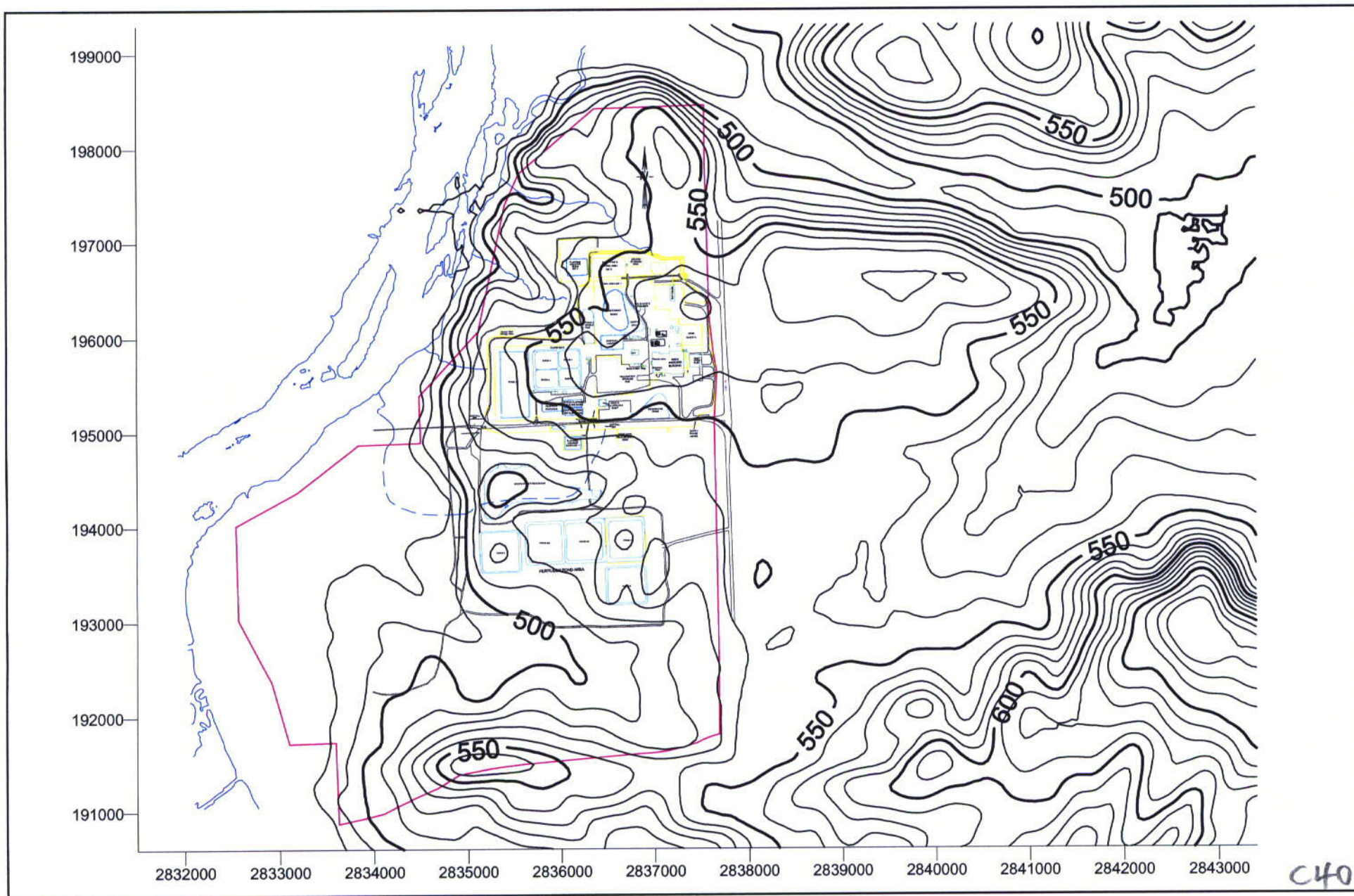
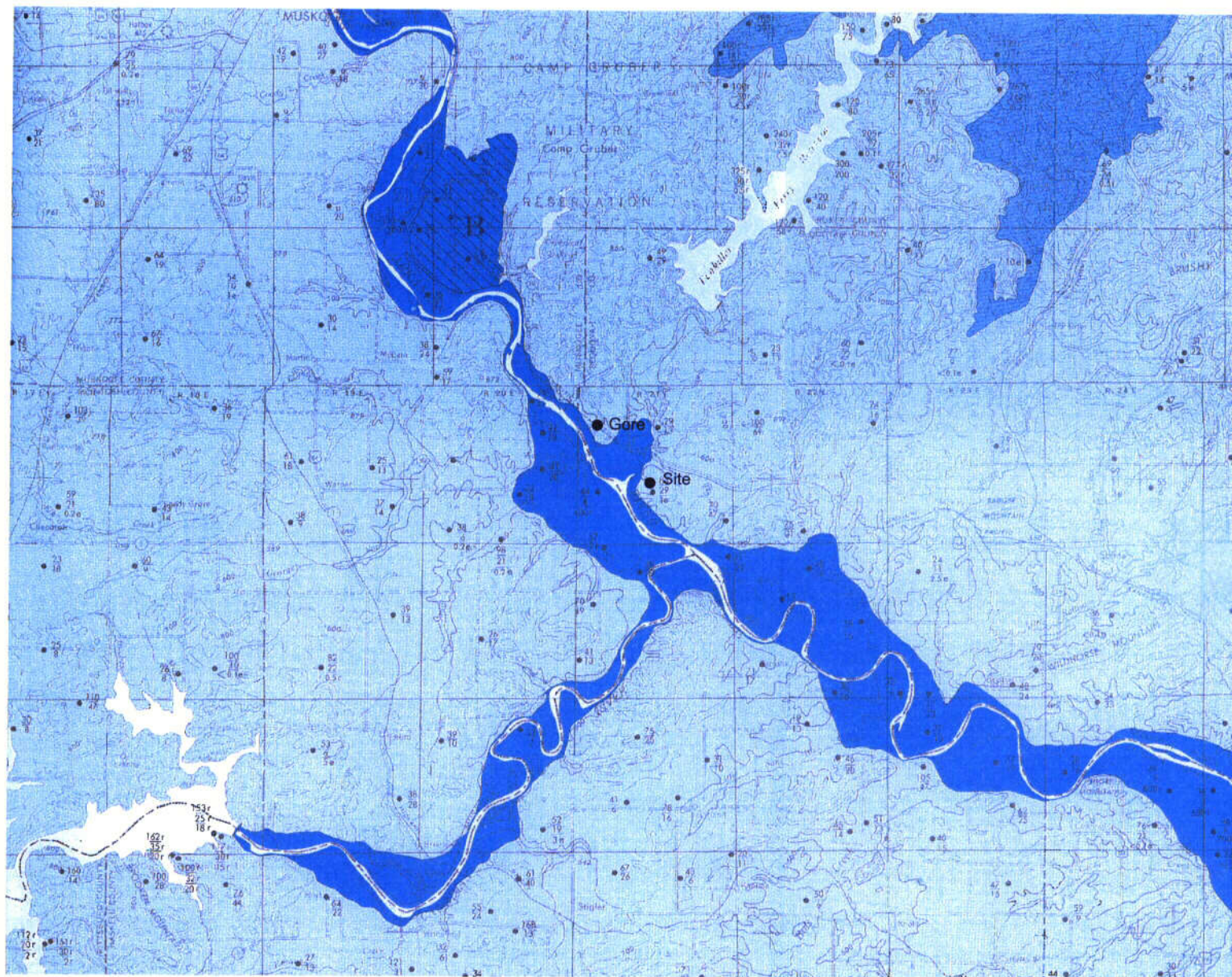


FIGURE 6-5
SITE TOPOGRAPHICAL SURFACE



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FIGURE 6-6
REGIONAL HYDROLOGICAL UNITS

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Explanation



Most favorable for ground-water supplies

This area includes alluvium along the Arkansas and Canadian Rivers and some terrace deposits along the Arkansas River. Wells in alluvium along the Arkansas River are reported to yield up to 900 gpm (gallons per minute); larger yields might be obtained locally. Alluvium along the Canadian River is untested, but yields comparable to those from alluvium of the Arkansas River probably could be obtained. Area A, shown by diagonal lines in Tulsa and Wagoner Counties, is underlain by terrace deposits, up to 60 feet thick, that are reported to yield as much as 125 gpm locally. Area B, shown by diagonal lines near Braggs, is also underlain by terrace deposits, up to 90 feet thick, that may yield up to 100 gpm.



Moderately favorable for ground-water supplies

This area is underlain by the Keokuk and Reeds Spring Formations and, in T. 13 N., R. 23 E., by rocks of pre-Mississippian age. Wells in the Keokuk and Reeds Spring Formations are reported to yield as much as 20 gpm and, locally, more. A few springs yield several hundred gallons per minute. Some of the limestones and sandstones, particularly the Burgen Sandstone in T. 13 N., R. 23 E., and in the vicinity of Qualls, are reported to yield up to 20 gpm.



Least favorable for ground-water supplies

The area is underlain by shale, siltstone, and sandstone of Pennsylvanian age and by terrace deposits mainly along the shores of Eufaula Reservoir. Most wells in the shale, siltstone, and sandstone yield only a fraction of a gallon per minute to a few gallons per minute. A few wells are reported to yield as much as 20 gpm. In local areas, terrace deposits along Eufaula Reservoir may yield 10 gpm or possibly more.

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+
↑

Well

Upper number is depth of the well in feet; middle number is depth to water in feet below land surface in 1966 and 1967; lower number is yield of the well in gallons per minute. e = estimated value, r = reported value, f = flowing well, + = height of water level above ground level, u = unknown.

3e
•

Spring

Number beside spring symbol is yield in gallons per minute. e = estimated yield. Yield data obtained in 1966.

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FIGURE 6-6a
EXPLANATION OF REGIONAL
HYDROLOGICAL UNITS

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File: SECT6PORTRAIT.ppt

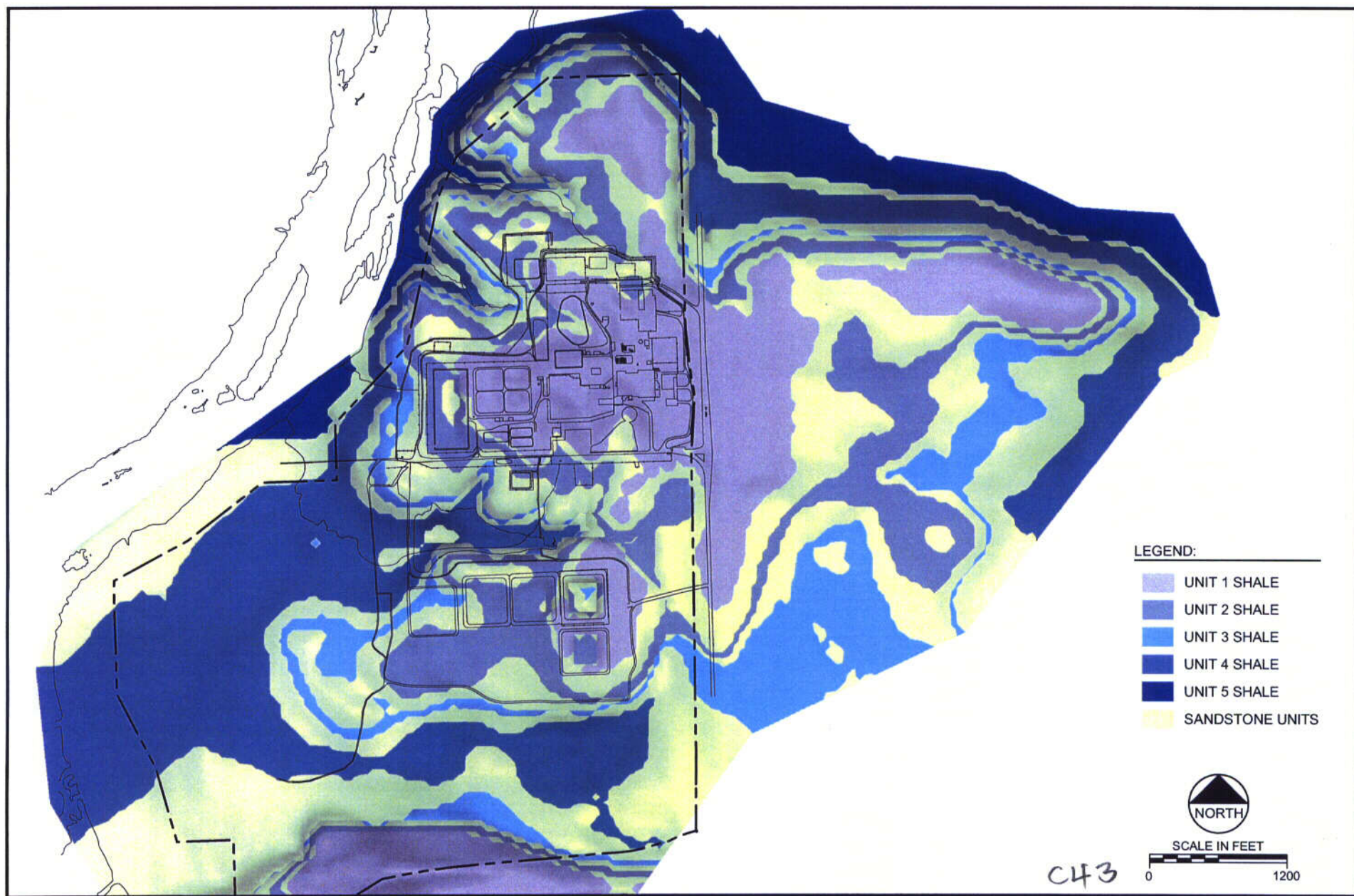
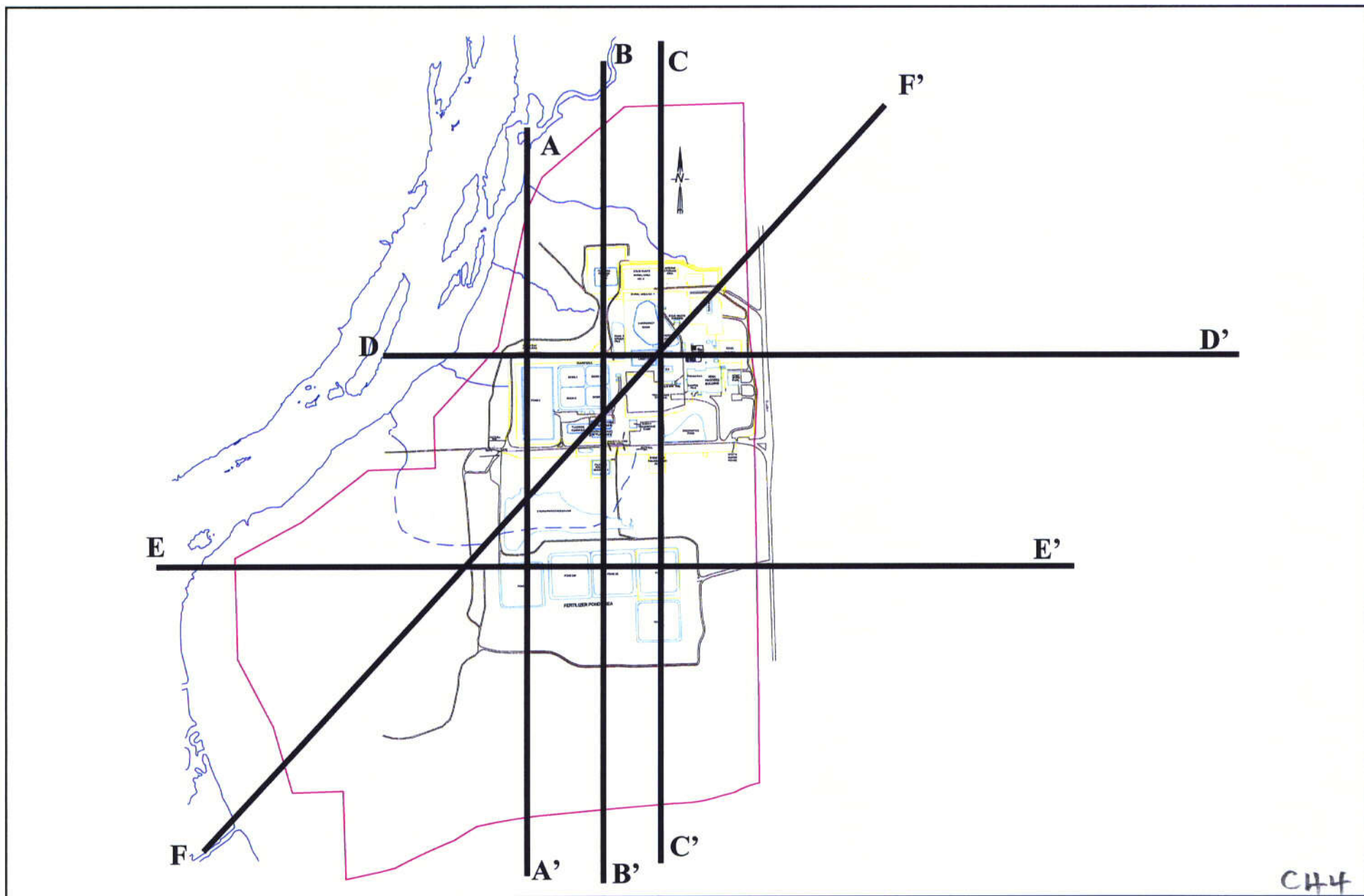


FIGURE 7-1
HYDROSTRATIGRAPHIC MODEL
BEDROCK GEOLOGY MAP

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 Project: 100734\REVISED-20*\n
 File: GEO-MAP.dwg



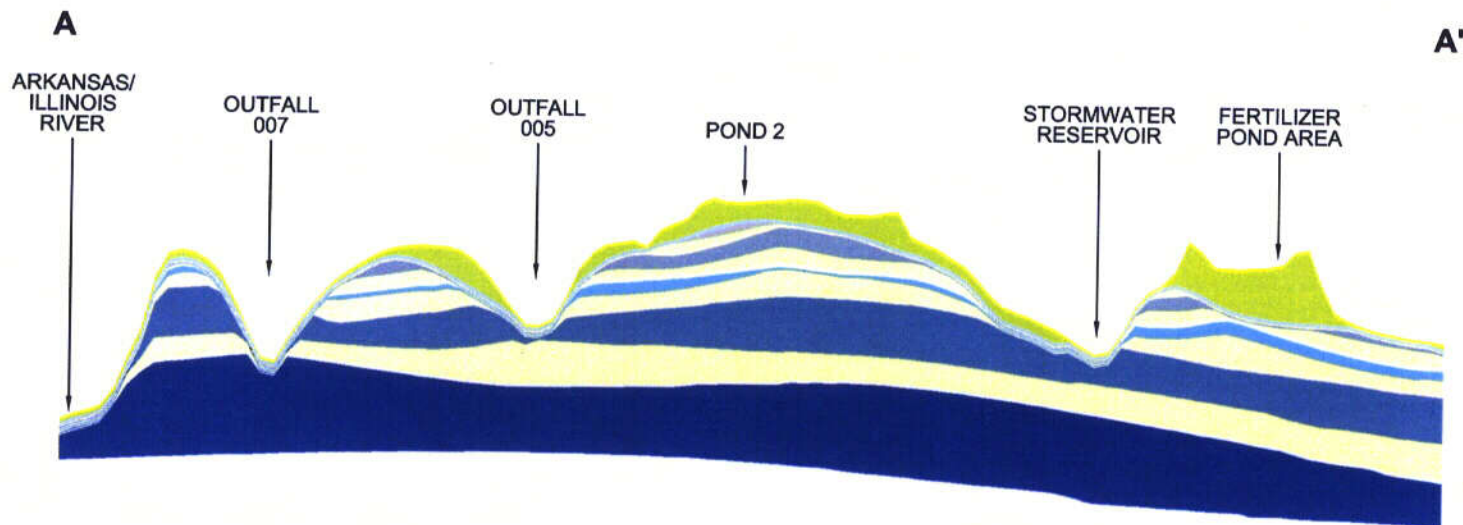
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FIGURE 7-2
GEOLOGIC CROSS-SECTION LOCATIONS

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Project: P:\100734-2\REV RPT

File: SECT7.ppt



LEGEND:

- ALLUVIUM AND COLLUVIUM TERRACE DEPOSIT
- UNIT 1 SHALE
- UNIT 2 SHALE
- UNIT 3 SHALE
- UNIT 4 SHALE
- UNIT 5 SHALE
- SANDSTONE UNITS

VERTICAL EXAGGERATION = 10x

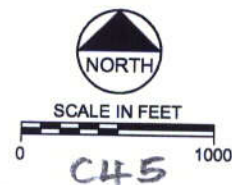
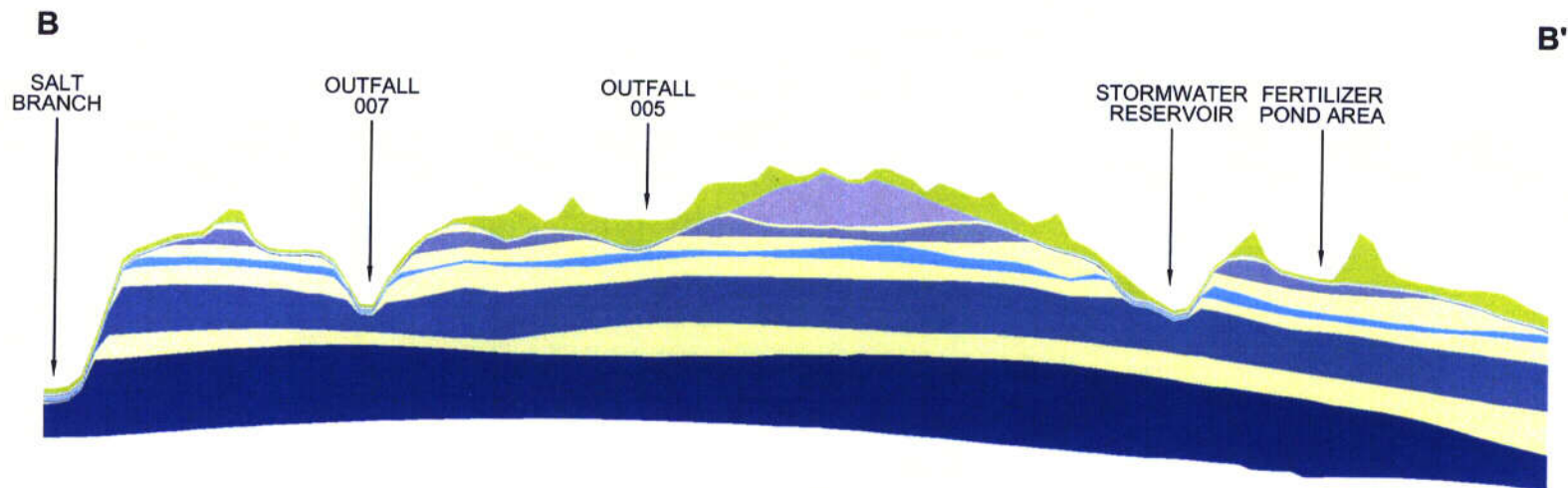


FIGURE 7-3
LAYER 1
HYDROSTRATIGRAPHIC MODEL CROSS SECTION A-A'

Date:	OCTOBER 2002
Project:	100734\REVISED-20\
File:	SECTIONS.dwg



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LEGEND:

- ALLUVIUM AND COLLUVIUM TERRACE DEPOSIT
- UNIT 1 SHALE
- UNIT 2 SHALE
- UNIT 3 SHALE
- UNIT 4 SHALE
- UNIT 5 SHALE
- SANDSTONE UNITS

VERTICAL EXAGGERATION = 10x

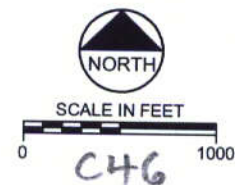
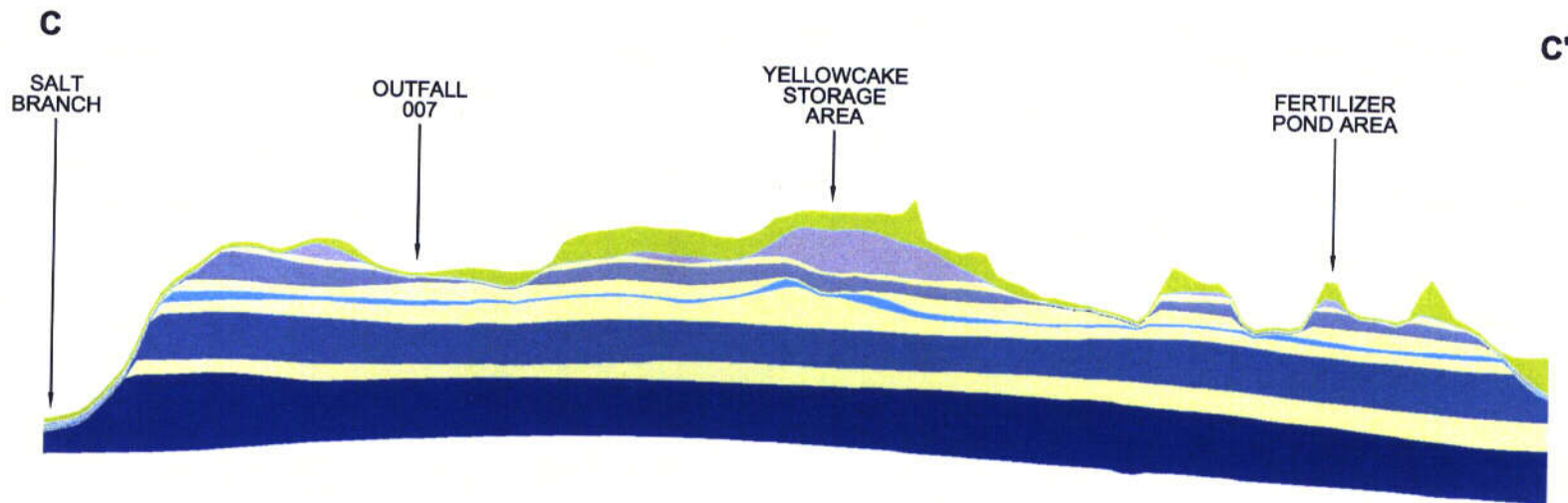


FIGURE 7-4
LAYER 2
HYDROSTRATIGRAPHIC MODEL CROSS SECTION B-B'

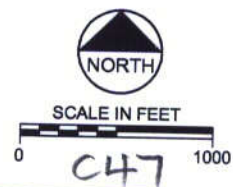
Date:	OCTOBER 2002
Project:	100734\REVISED-20\
File:	SECTIONS.dwg



LEGEND:

- ALLUVIUM AND COLLUVIUM TERRACE DEPOSIT
- UNIT 1 SHALE
- UNIT 2 SHALE
- UNIT 3 SHALE
- UNIT 4 SHALE
- UNIT 5 SHALE
- SANDSTONE UNITS

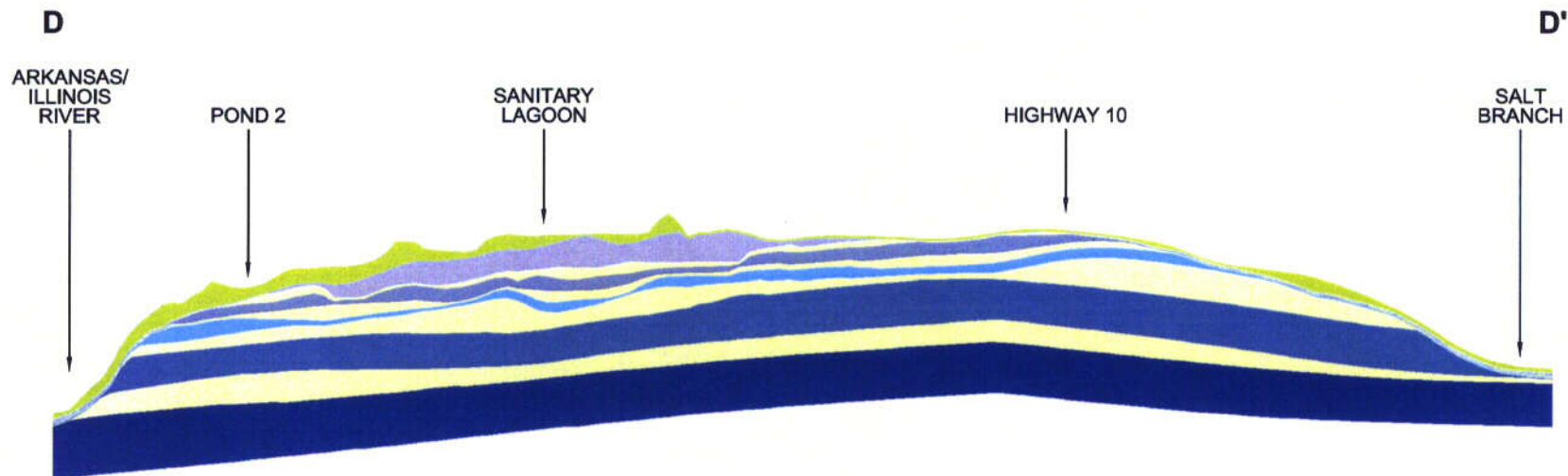
VERTICAL EXAGGERATION = 10x



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FIGURE 7-5
LAYER 3
HYDROSTRATIGRAPHIC MODEL CROSS SECTION C-C'

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File:	SECTIONS.dwg



LEGEND:

- ALLUVIUM AND COLLUVIUM TERRACE DEPOSIT
- UNIT 1 SHALE
- UNIT 2 SHALE
- UNIT 3 SHALE
- UNIT 4 SHALE
- UNIT 5 SHALE
- SANDSTONE UNITS

VERTICAL EXAGGERATION = 10x

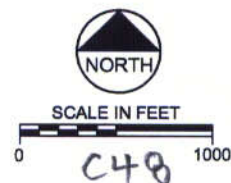
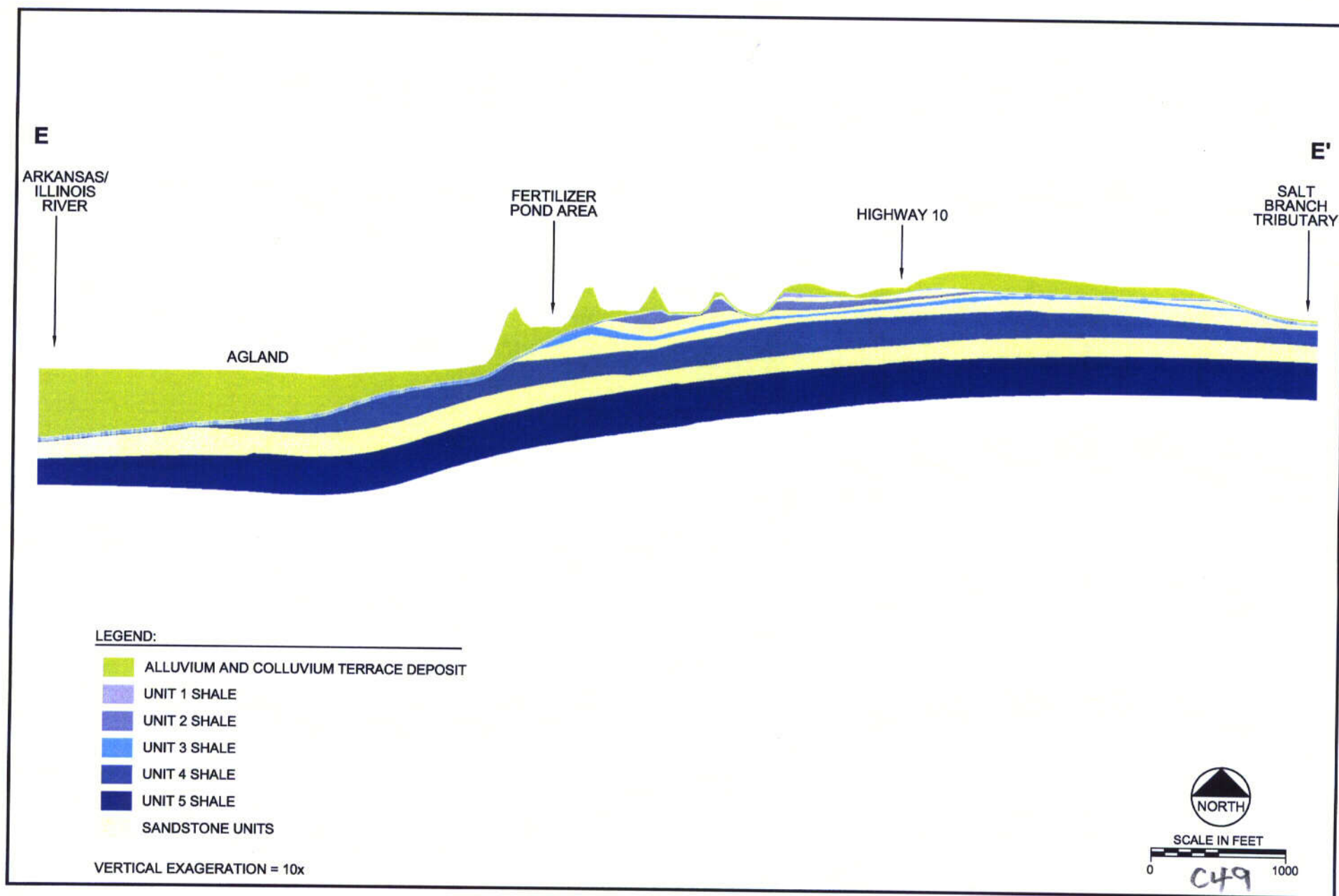
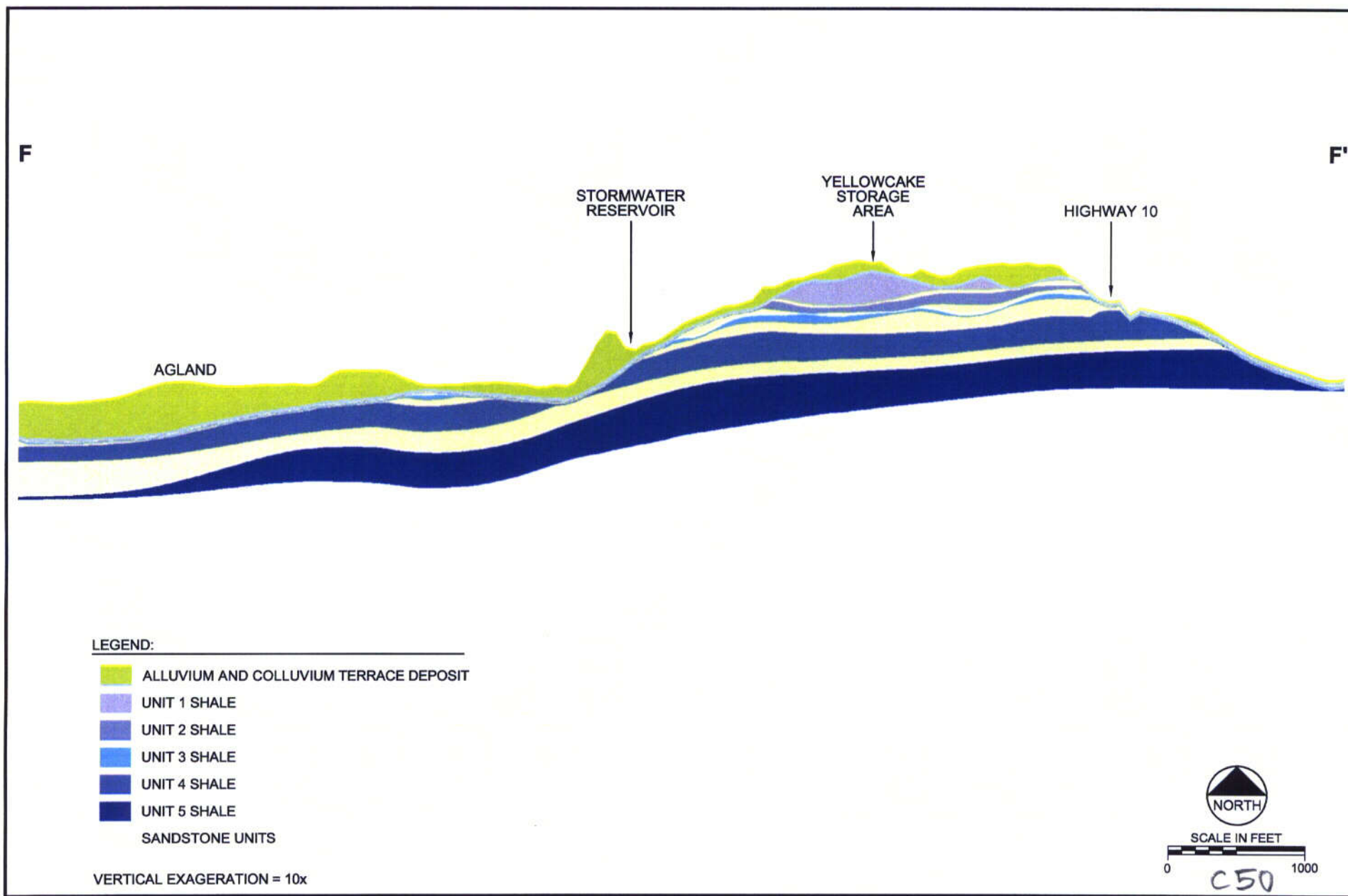


FIGURE 7-6
LAYER 4
HYDROSTRATIGRAPHIC MODEL CROSS SECTION D-D'

Date:	OCTOBER 2002
Project:	100734\REVISED-20\
File:	SECTIONS.dwg







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FIGURE 7-8
LAYER 6
HYDROSTRATIGRAPHIC MODEL CROSS SECTION F-F'

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File:	SECTIONS.dwg

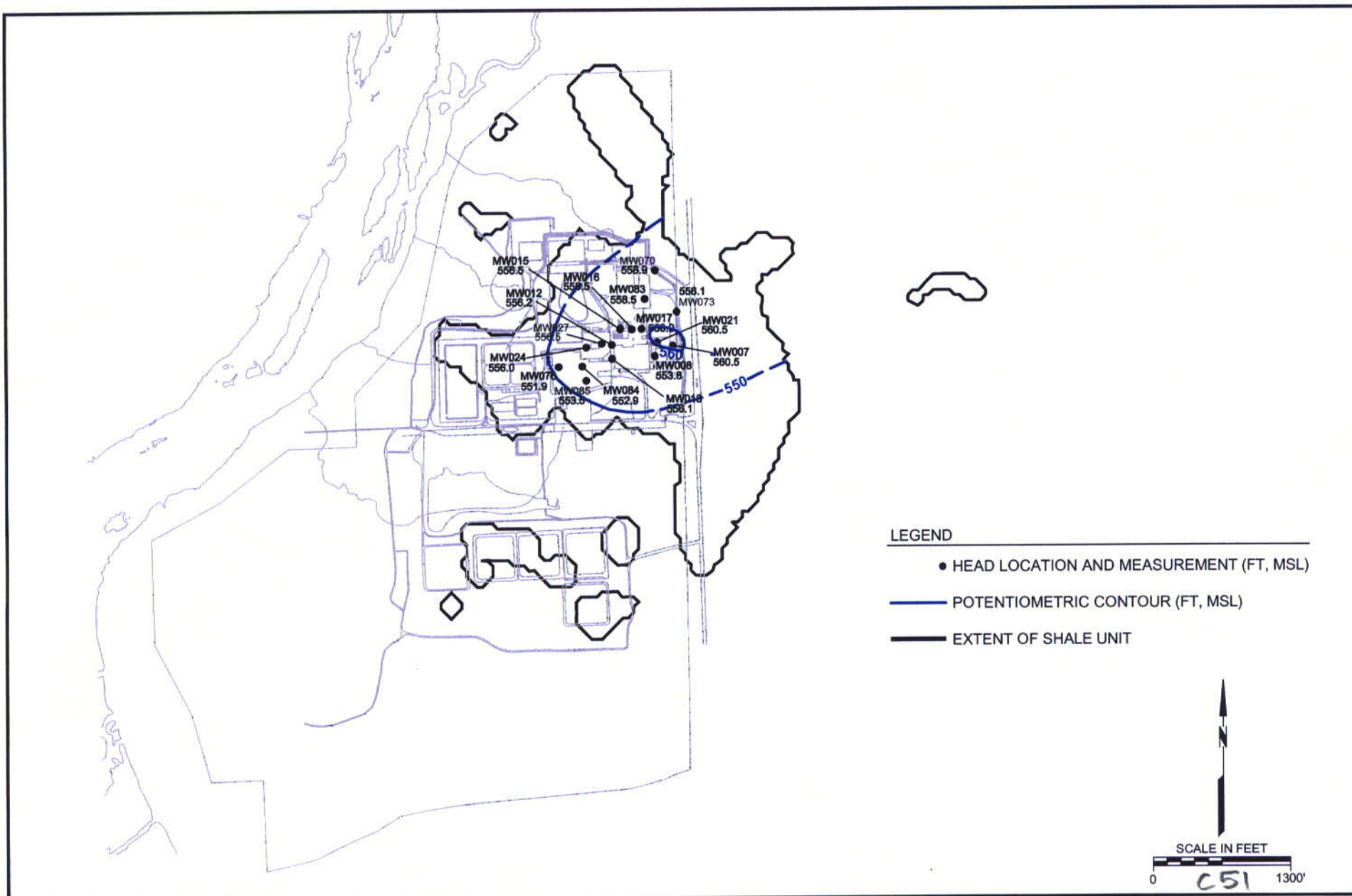


FIGURE 7-9
POTENTIOMETRIC SURFACE SHALE 1
JUNE 2001

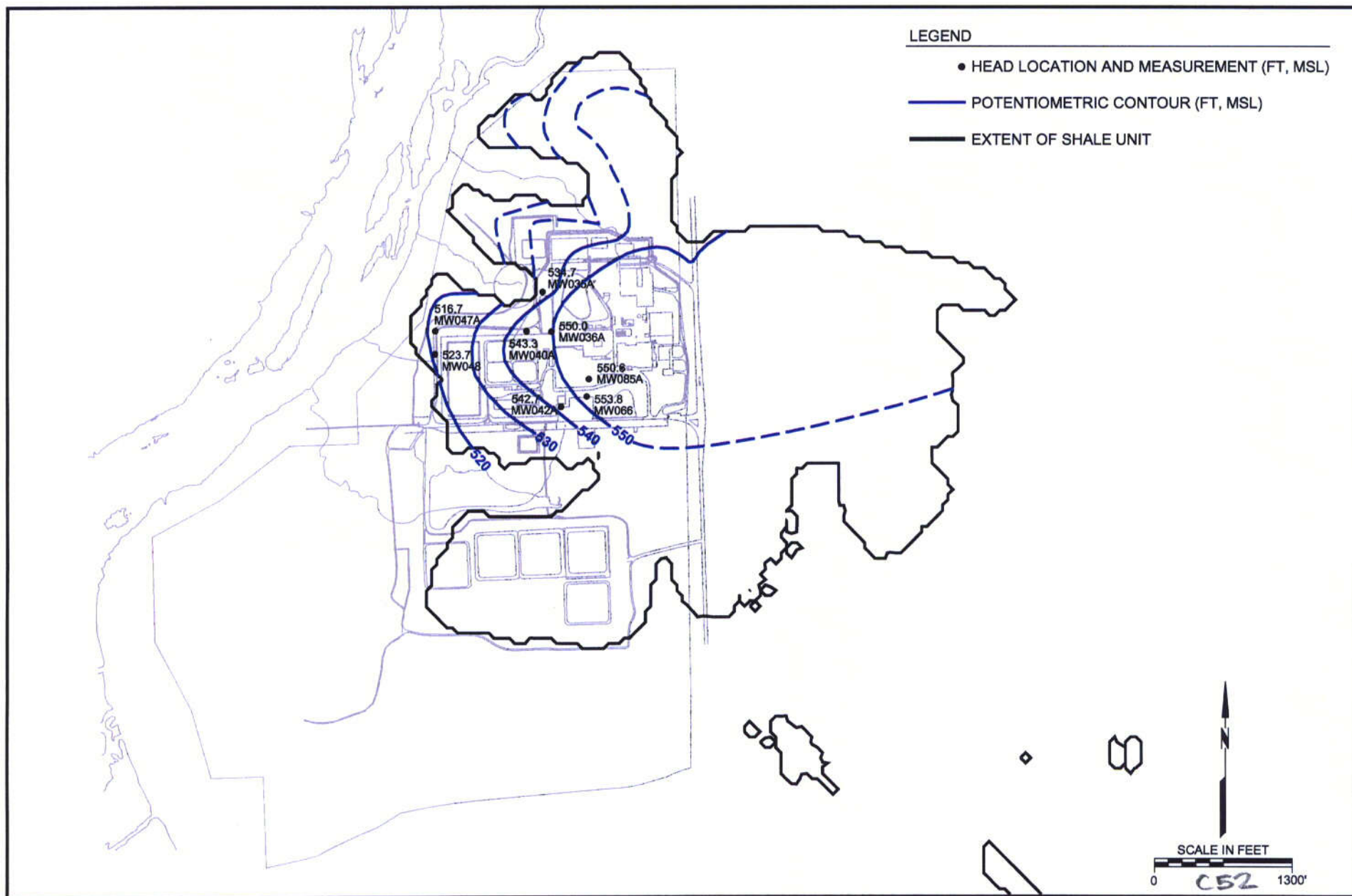


FIGURE 7-10
POTENTIOMETRIC SURFACE SHALE 2
JUNE 2001

Date:	OCTOBER 2002
Project:	100734
File:	SHALE.dwg

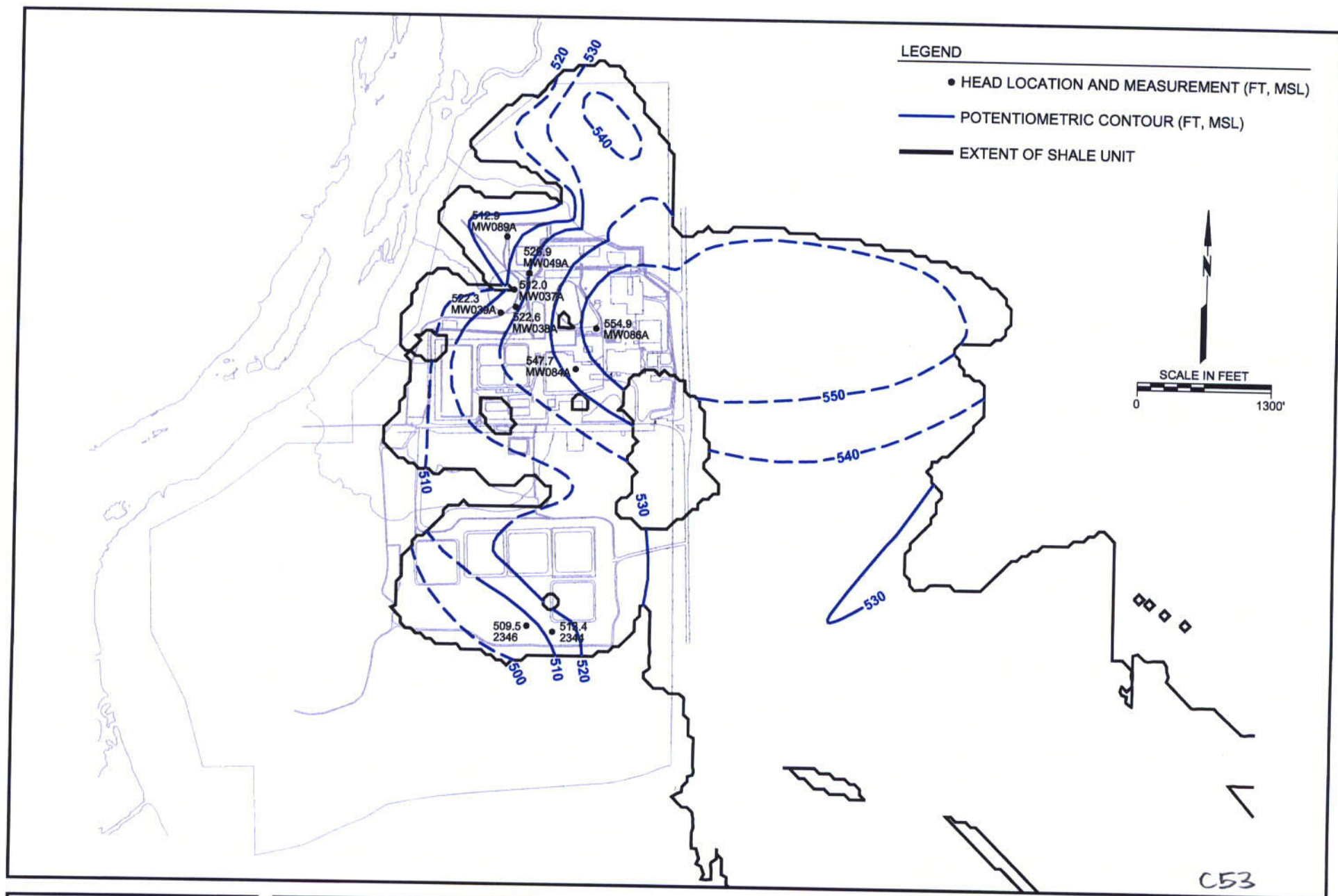


FIGURE 7-11
POTENTIOMETRIC SURFACE SHALE 3
JUNE 2001



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Project:	100734
File:	SHALE.dwg

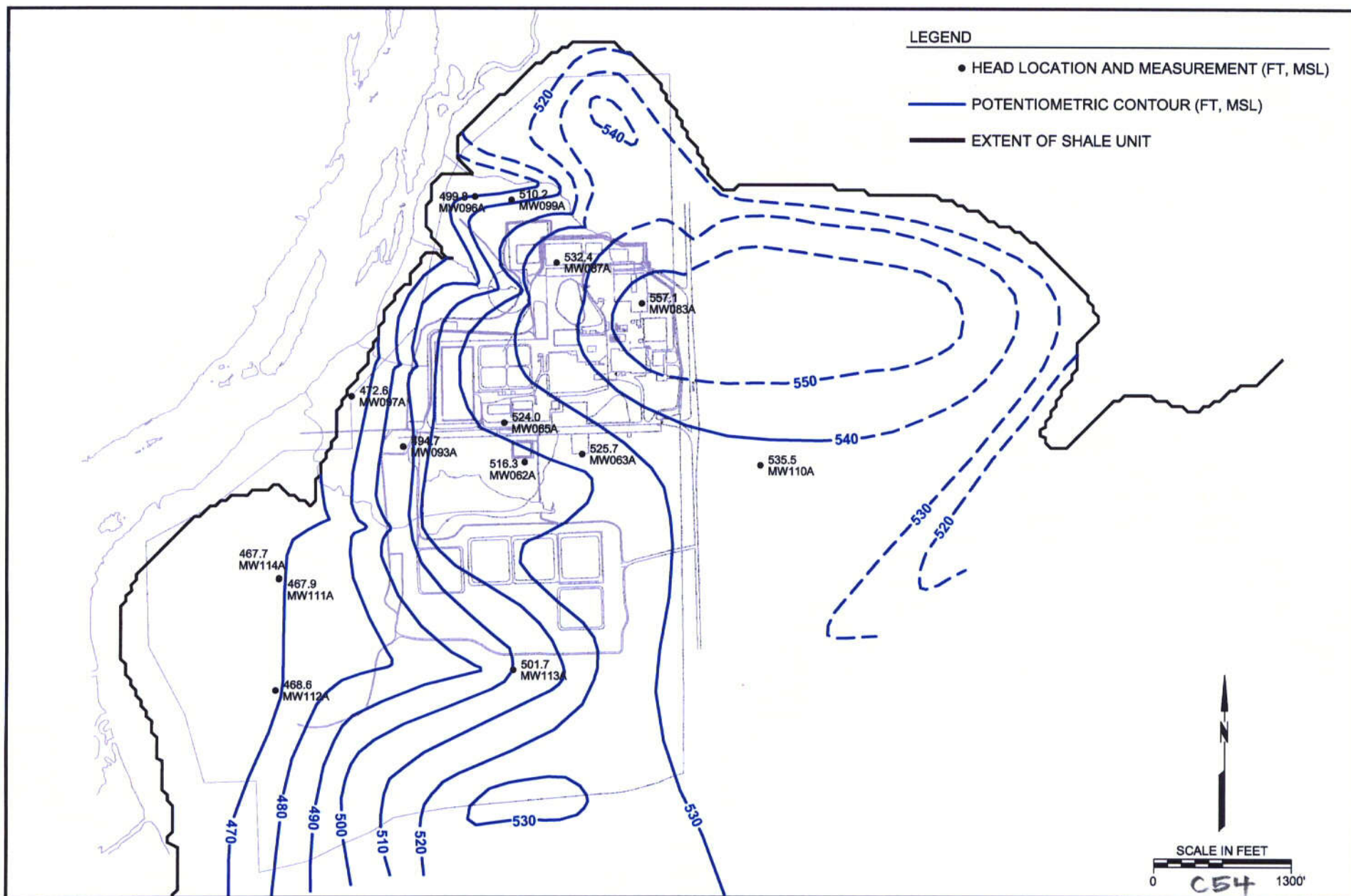
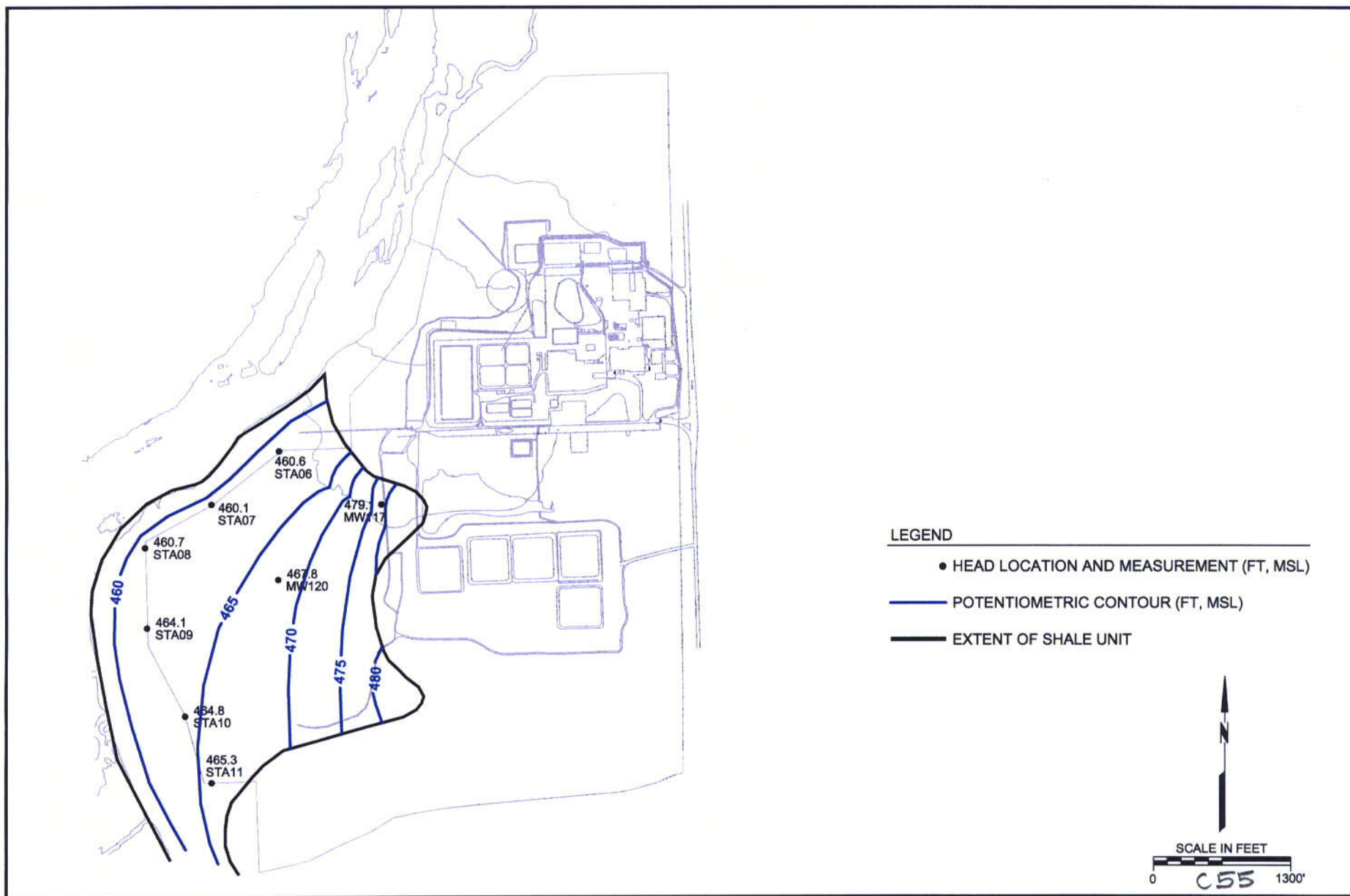


FIGURE 7-12
POTENTIOMETRIC SURFACE SHALE 4
JUNE 2001

Date:	OCTOBER 2002
Project:	100734
File:	SHALE.dwg



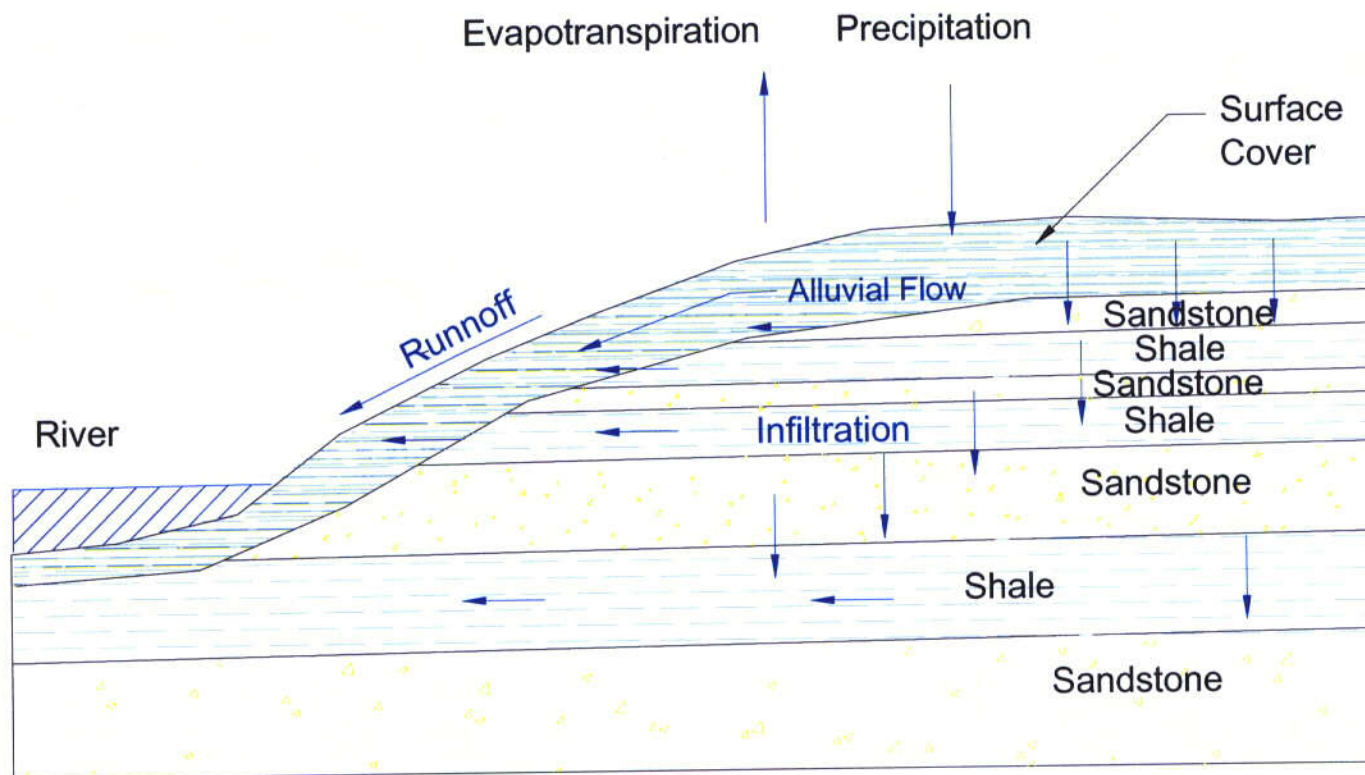
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FIGURE 7-13
POTENTIOMETRIC SURFACE ALLUVIUM
5 JUNE 2001

Date: OCTOBER 2002

Project: 100734

File: SHALE.dwg



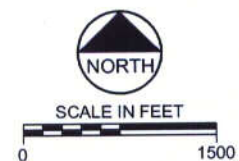
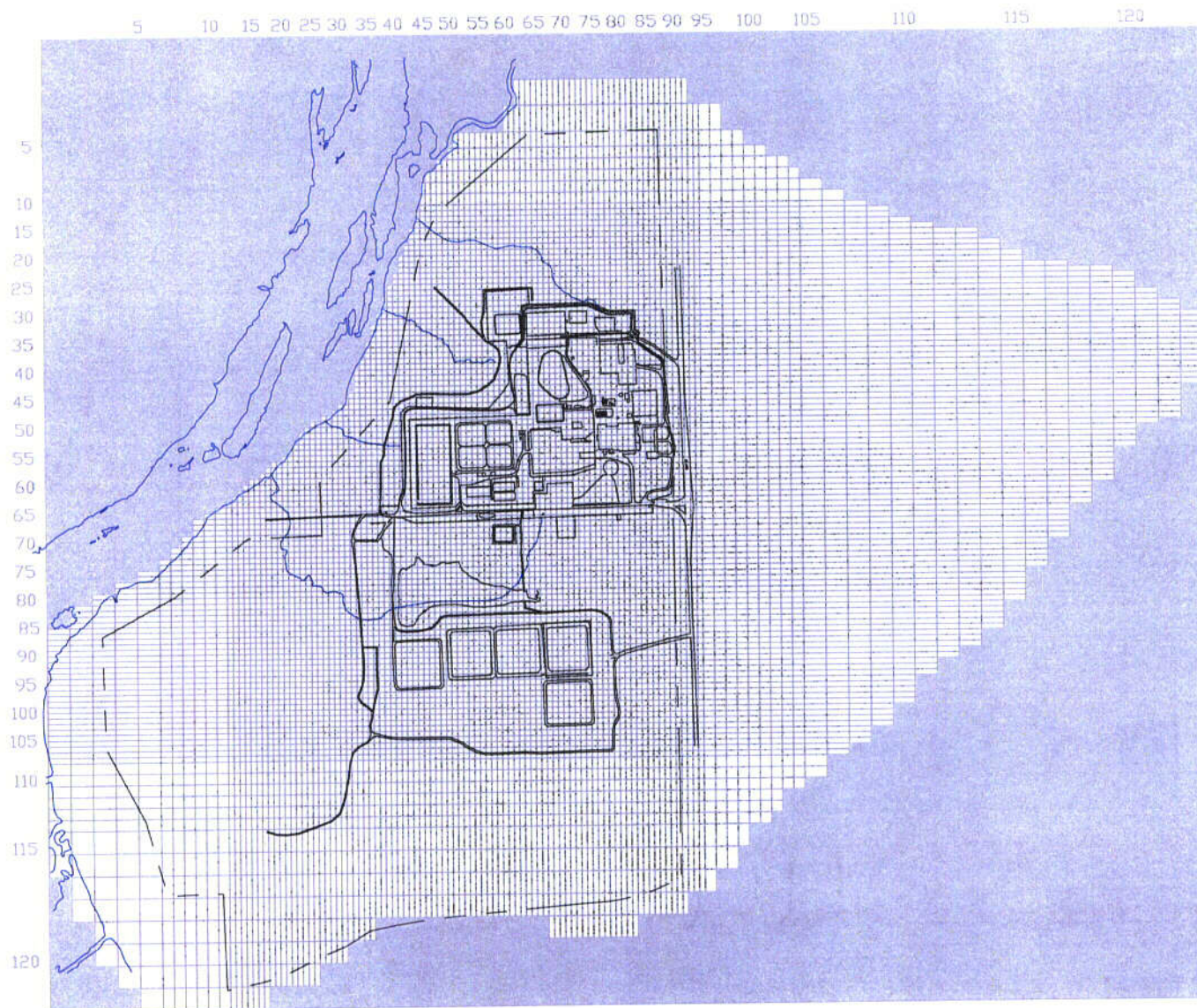
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FIGURE 7-14
CONCEPTUALIZED HYDROGEOLOGY

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File:	SECT7.ppt



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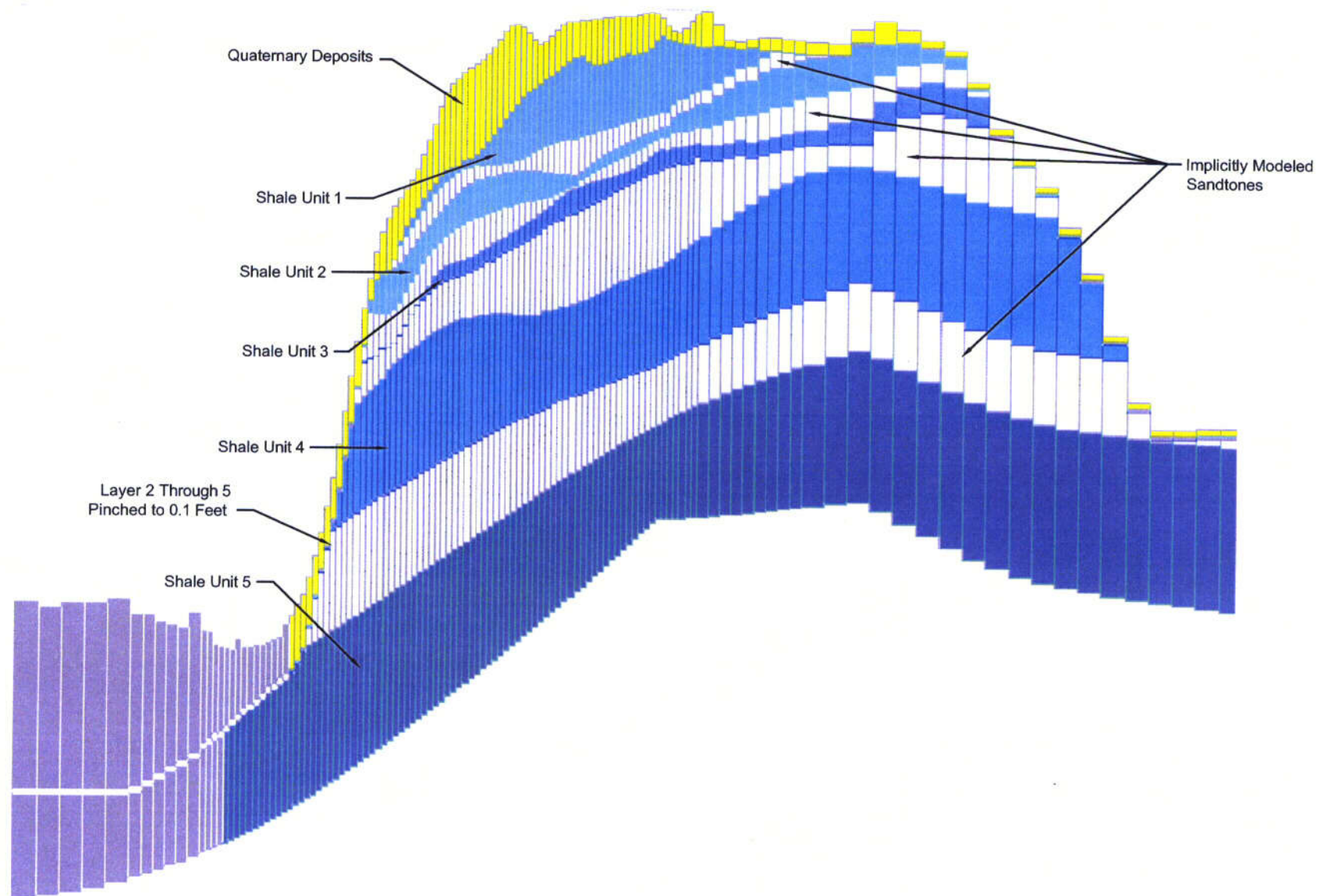
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FIGURE 8-1
MODEL DOMAIN

Date: OCTOBER 2002

Project: 100734

File: FIG 8-1.DWG



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FIGURE 8-2
MODEL GRID CROSS-SECTION

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Project: 100734

File: XSEC.DWG

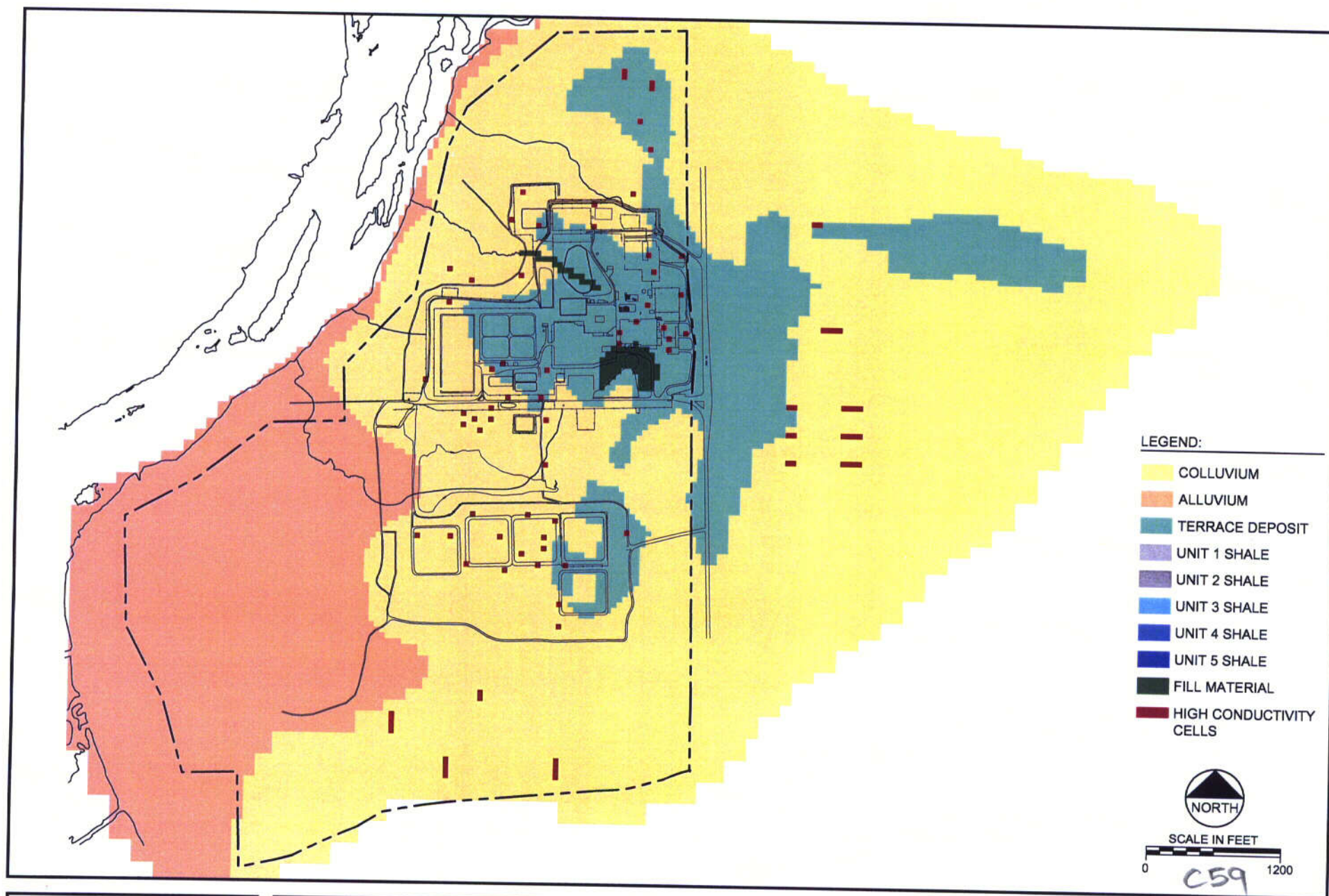


FIGURE 8-3
LAYER 1
HYDROLOGIC UNITS

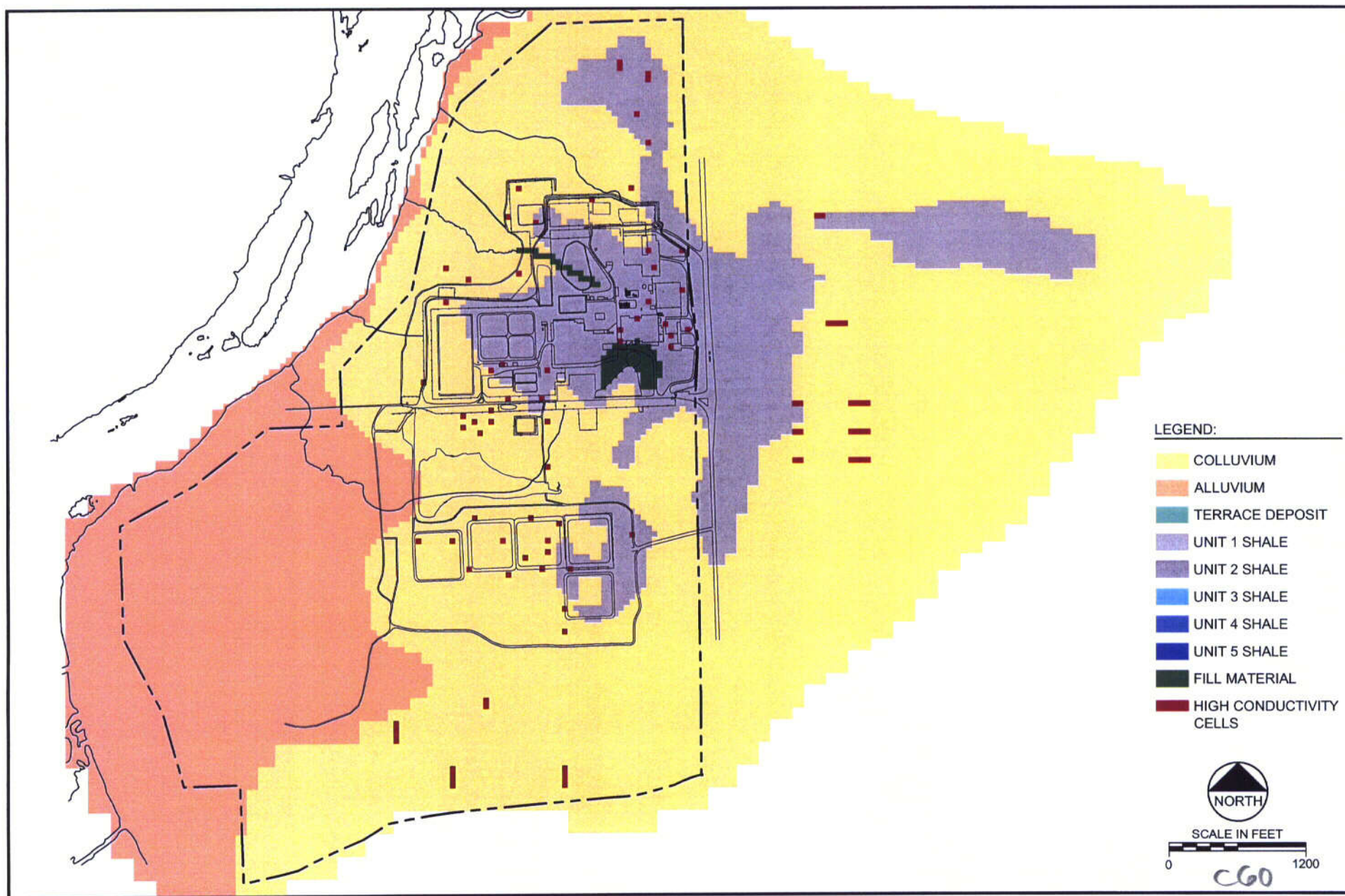


FIGURE 8-4
LAYER 2
HYDROLOGIC UNITS

Date: OCTOBER 2002
Project: 100734\REVISED-20*\nFile: HYDRO-UNITS.dwg

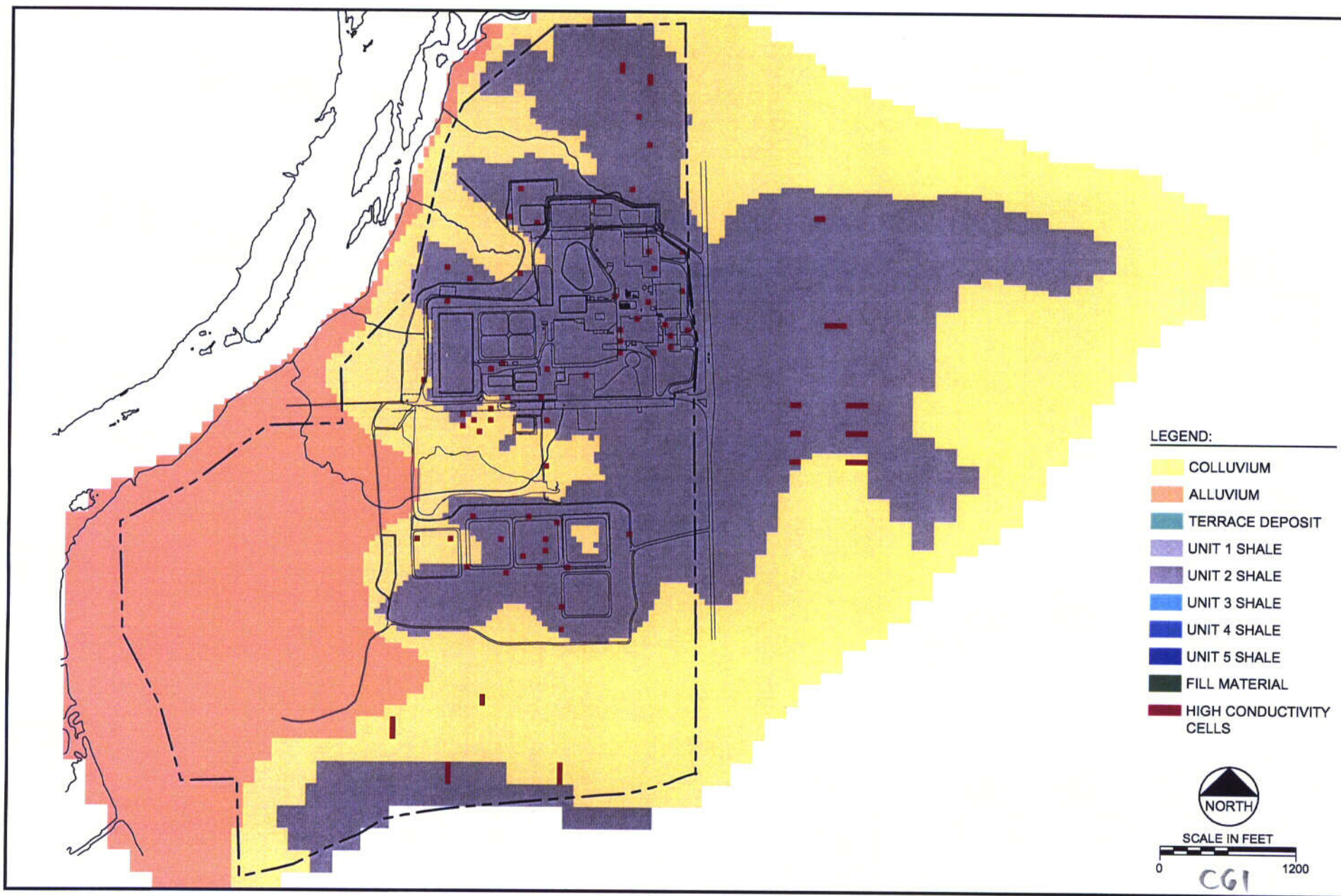


FIGURE 8-5
LAYER 3
HYDROLOGIC UNITS

Date: OCTOBER 2002
Project: 100734\REVISED-20"
File: HYDRO-UNITS.dwg



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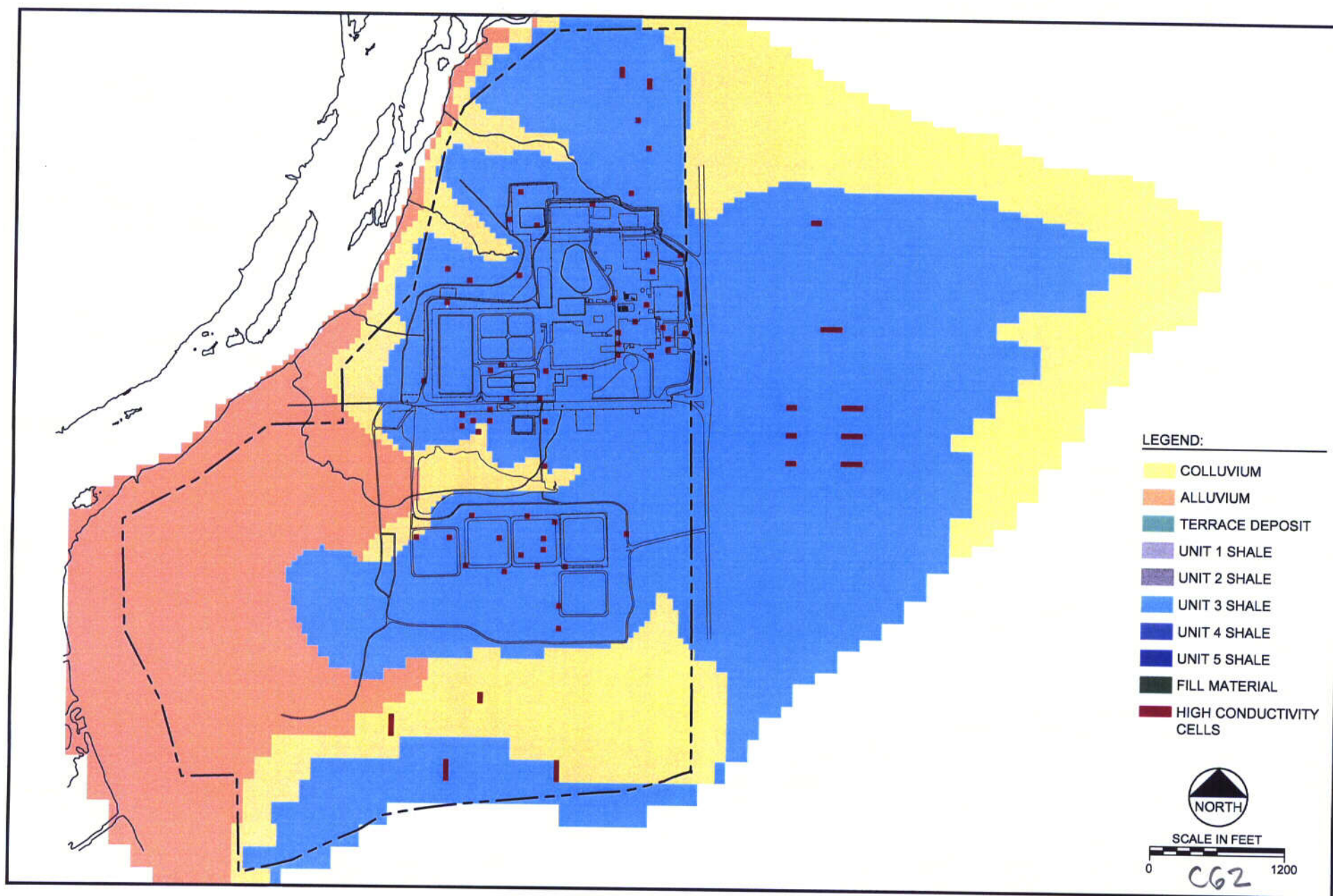


FIGURE 8-6
LAYER 4
HYDROLOGIC UNITS

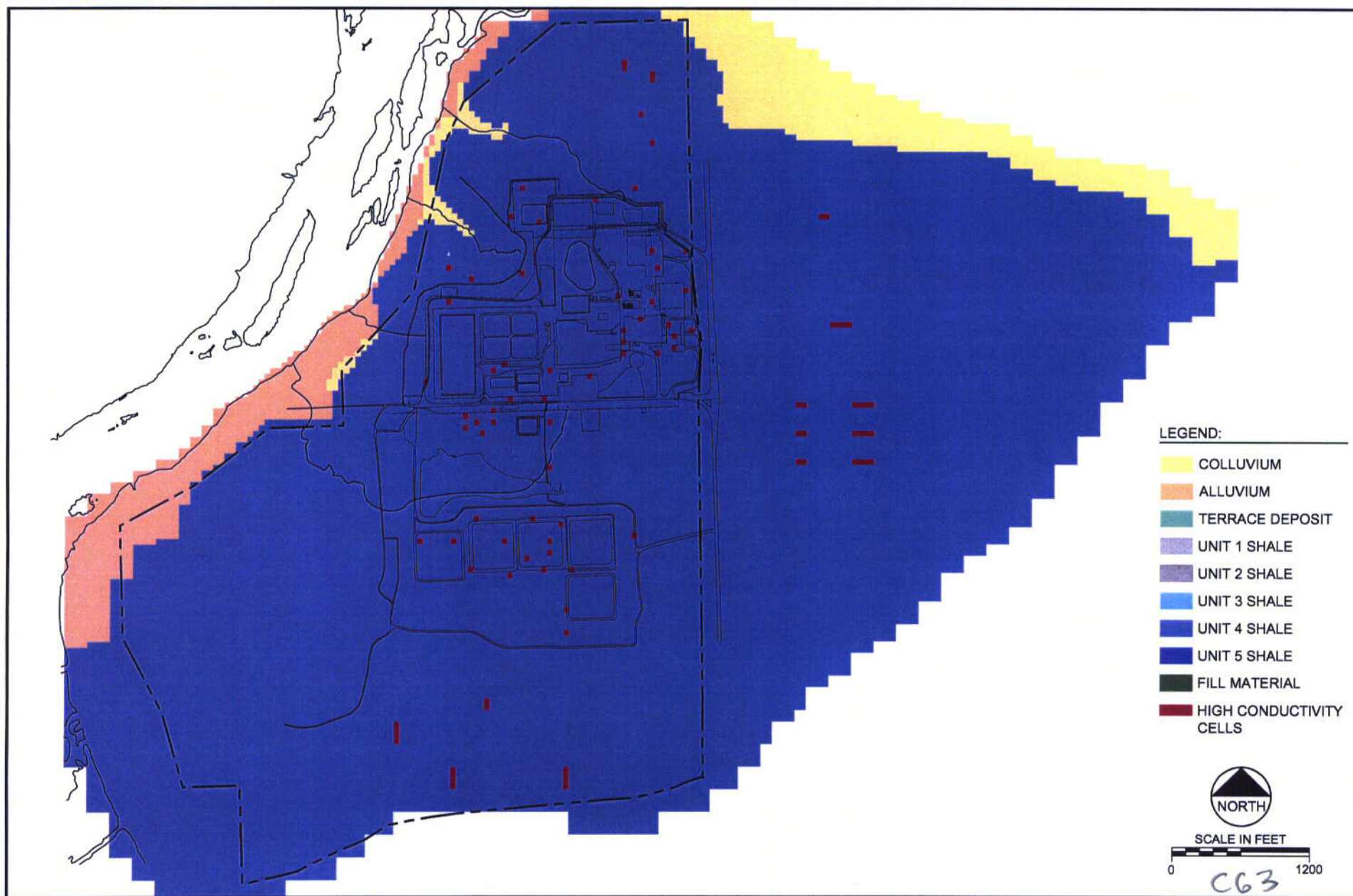


FIGURE 8-7
LAYER 5
HYDROLOGIC UNITS

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Project: 100734\REVISED-20"
File: HYDRO-UNITS.dwg



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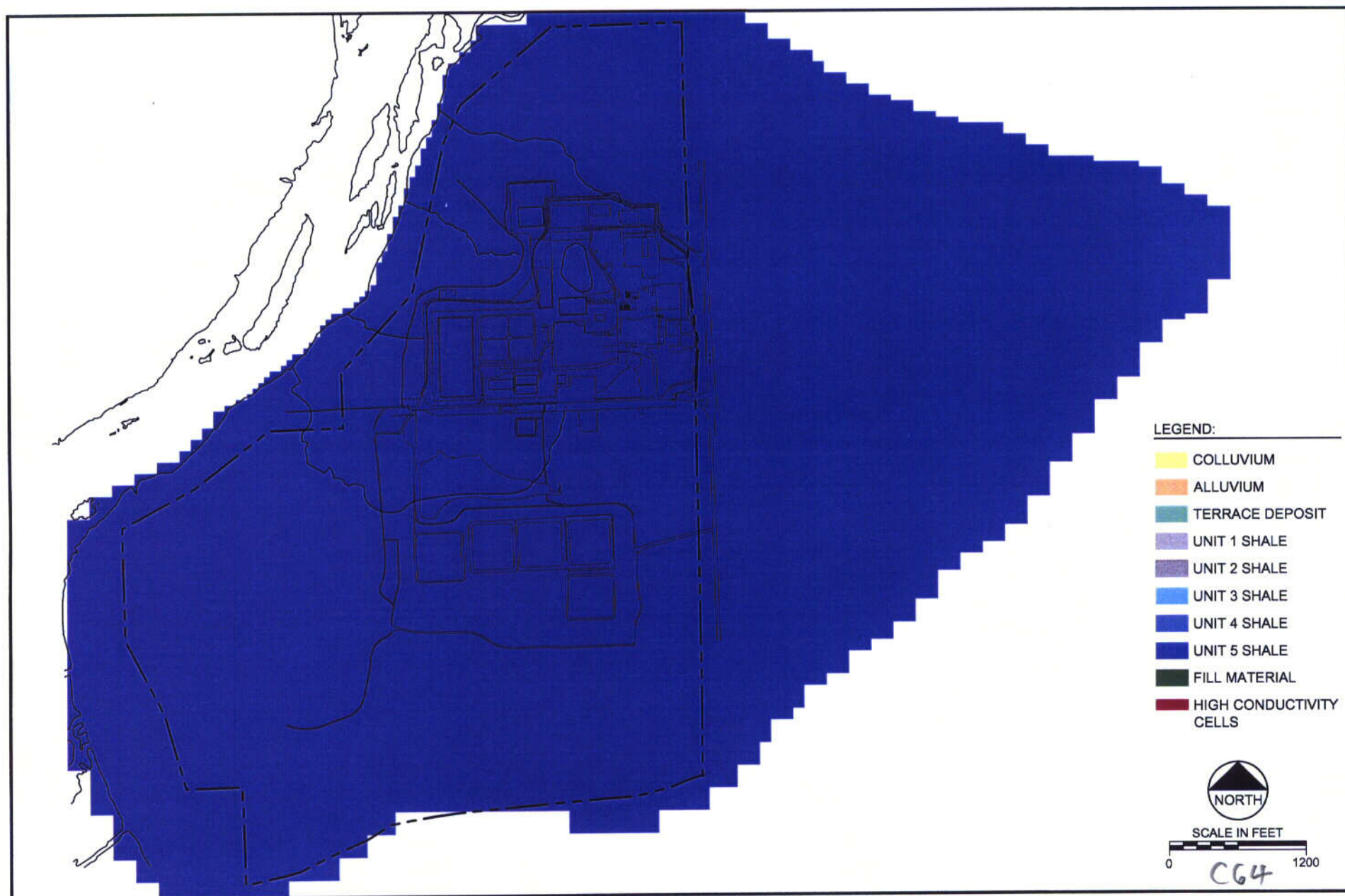


FIGURE 8-8
LAYER 6
HYDROLOGIC UNITS

Date: OCTOBER 2002
Project: 100734\REVISED-20\1
File: HYDRO-UNITS.dwg



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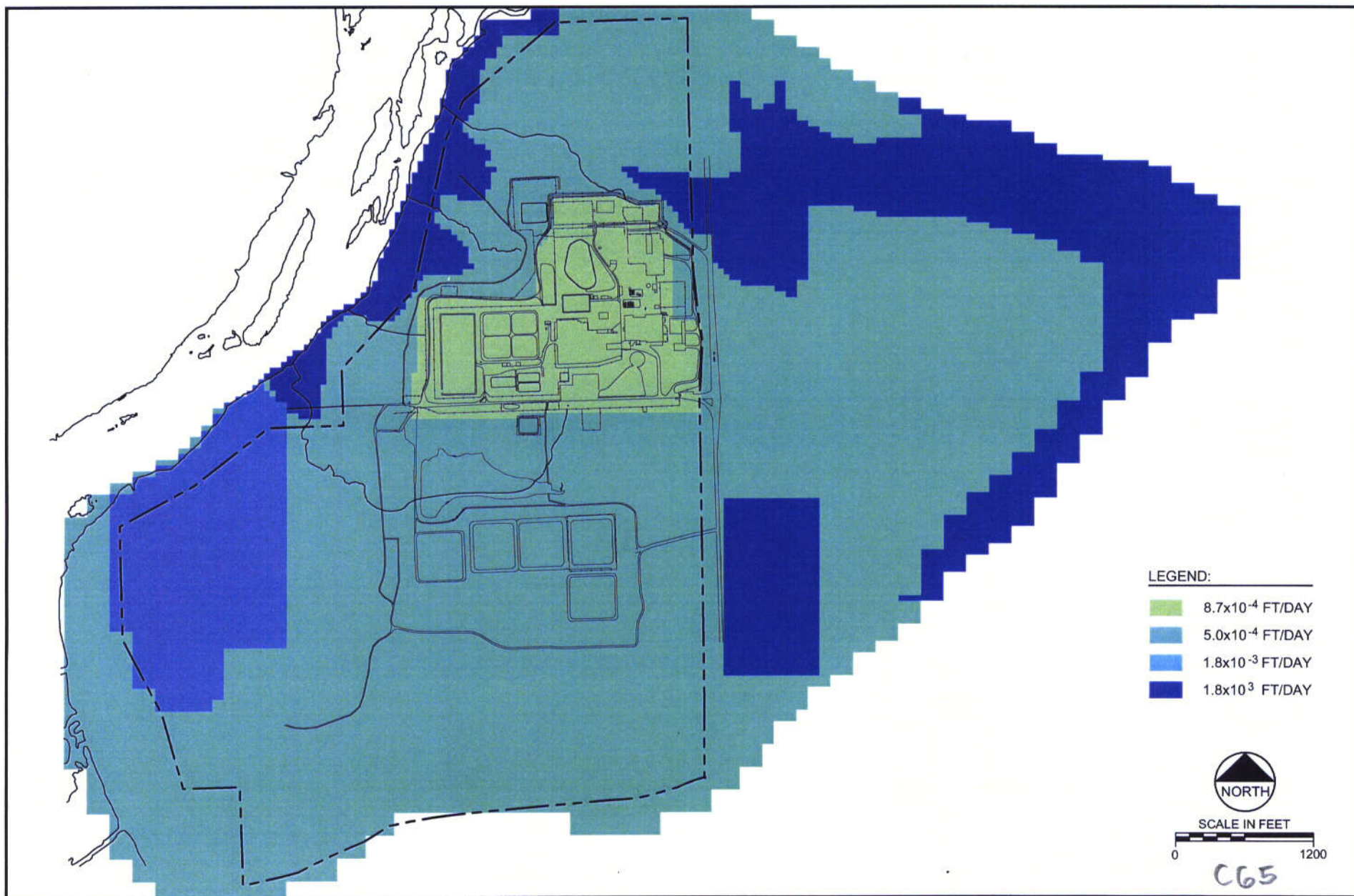


FIGURE 8-9
LAYER 1
RECHARGE RATES

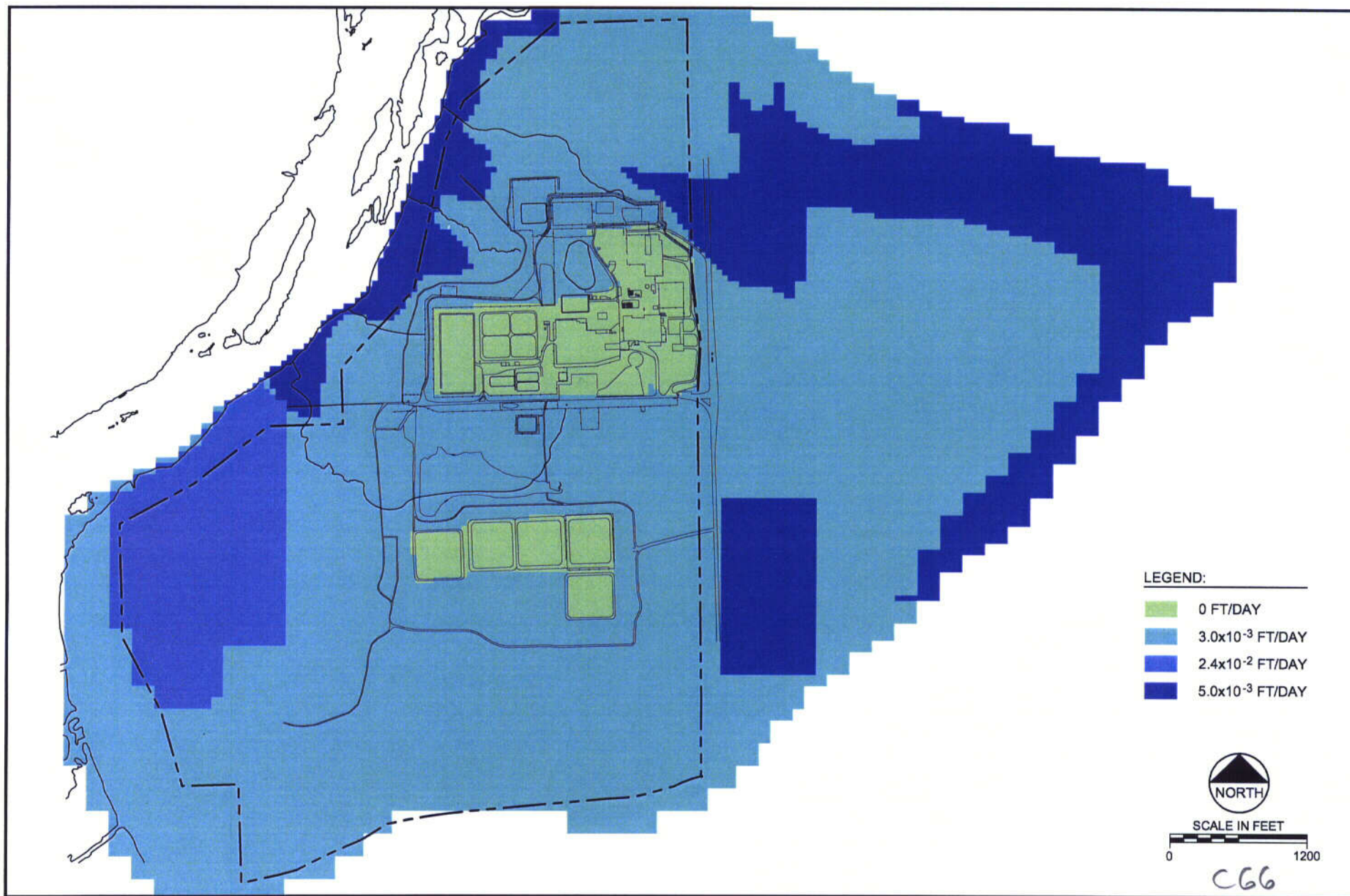


FIGURE 8-10
LAYER 1
EVAPOTRANSPIRATION RATES

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Project: 100734\REVISED-20"
File: RATES.dwg



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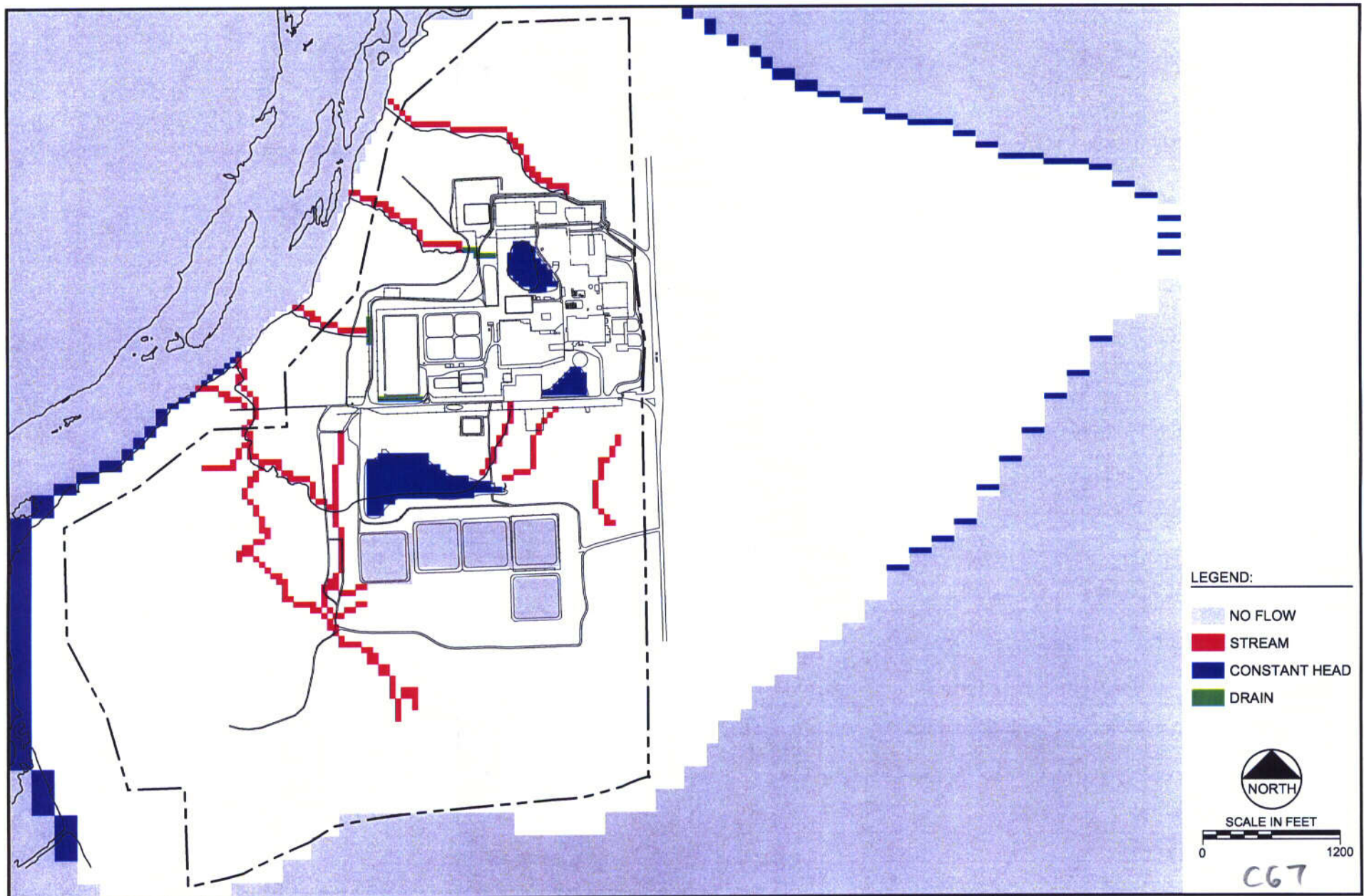
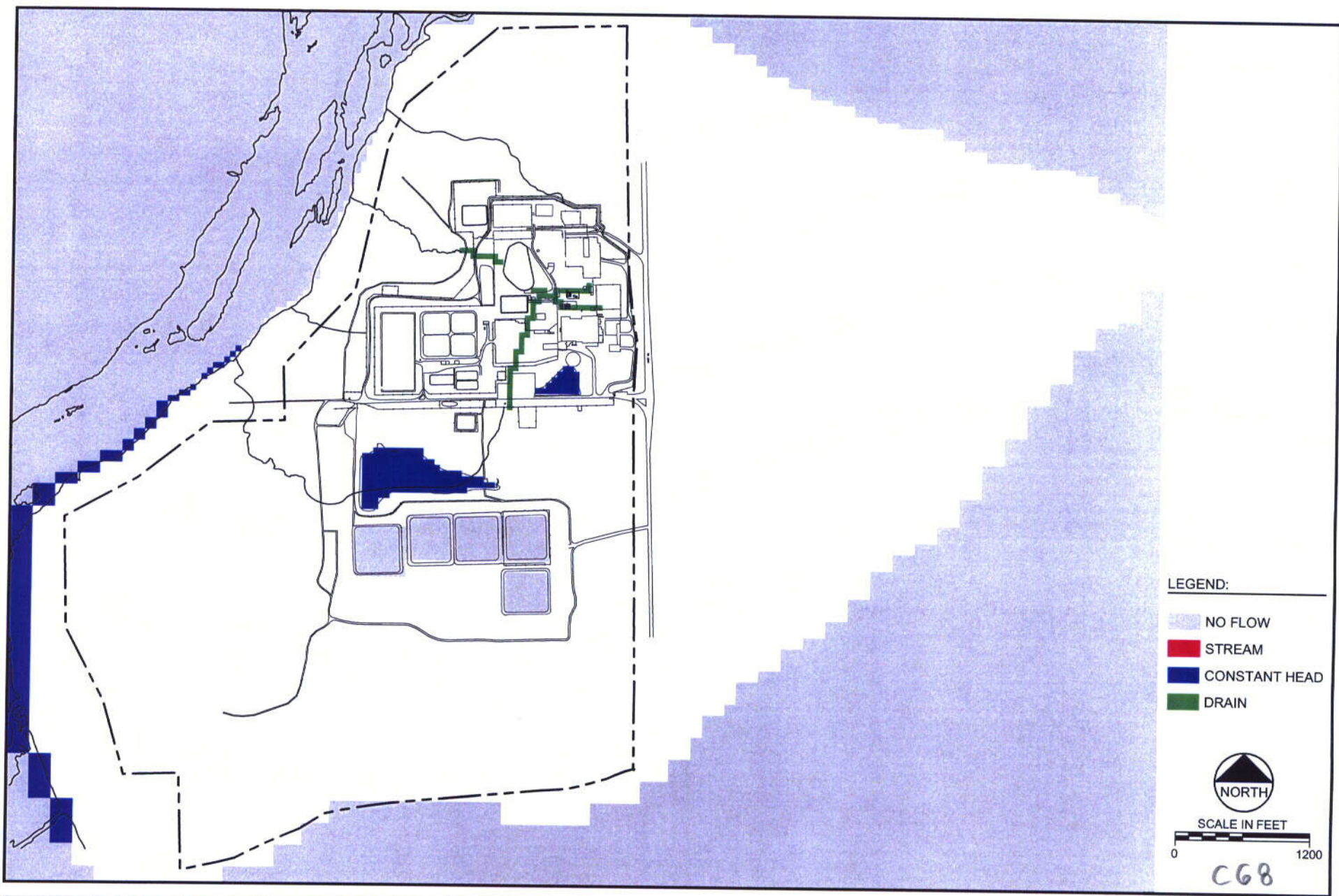


FIGURE 8-11
LAYER 1
BOUNDARY CONDITIONS

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Project:	100734\REVISED-20"
File:	BND-COND.dwg



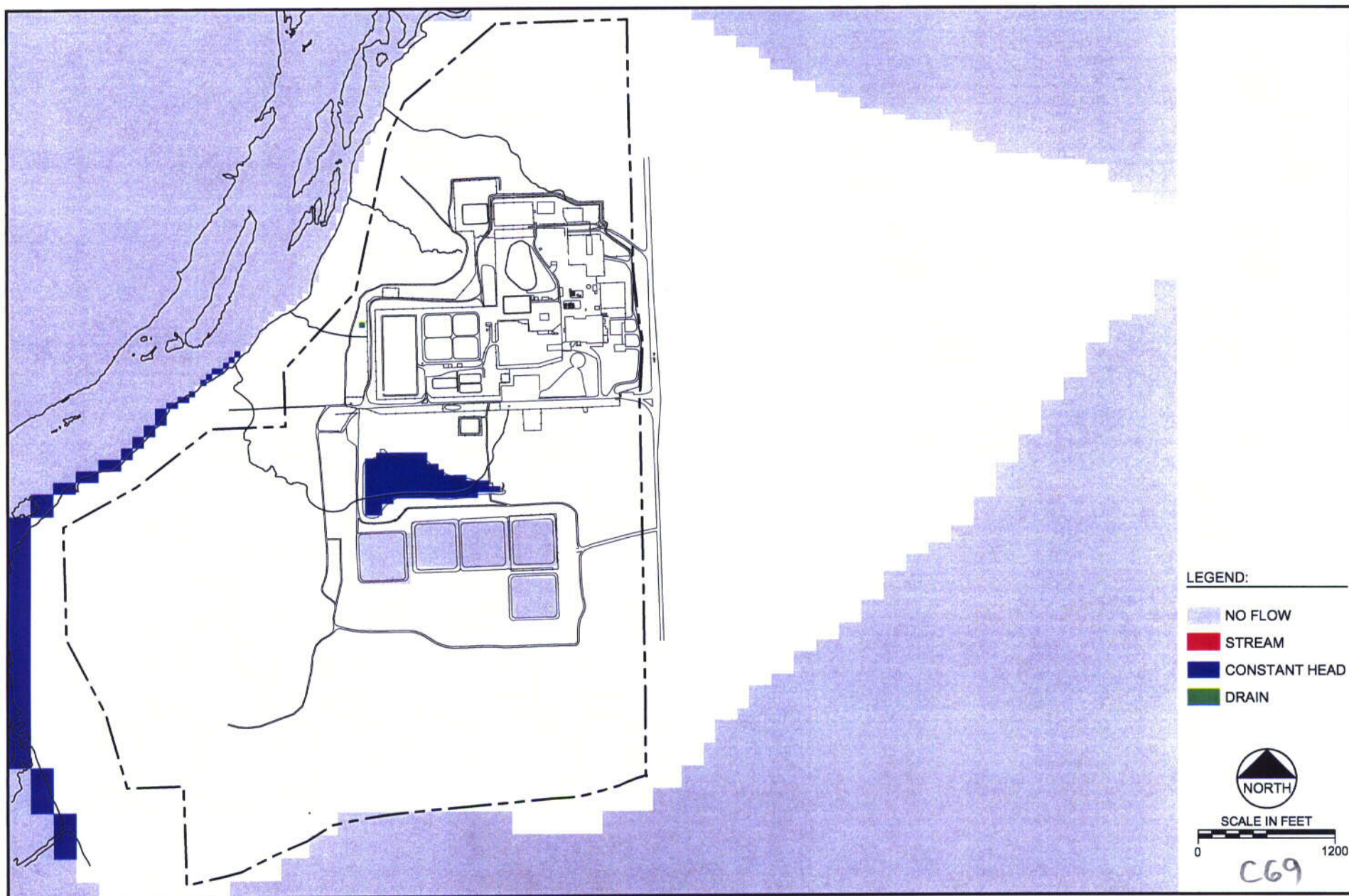
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FIGURE 8-12
LAYER 2
BOUNDARY CONDITIONS

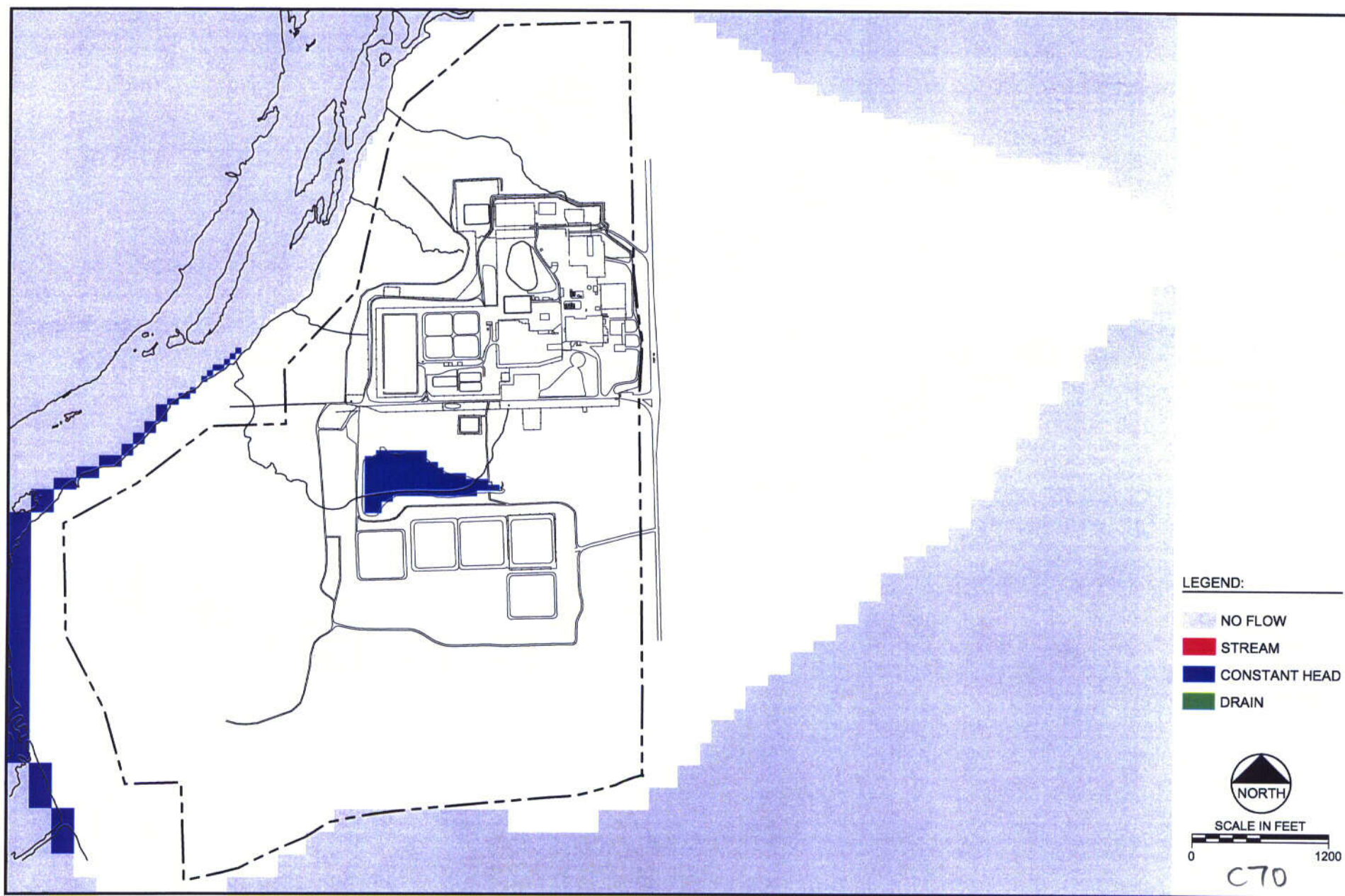
Date:	OCTOBER 2002
Project:	100734\REVISED-20\
File:	BND-COND.dwg



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FIGURE 8-13
LAYER 3
BOUNDARY CONDITIONS

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FIGURE 8-14
LAYER 4
BOUNDARY CONDITIONS

Date: OCTOBER 2002
Project: 100734\REVISED-20"
File: BND-COND.dwg

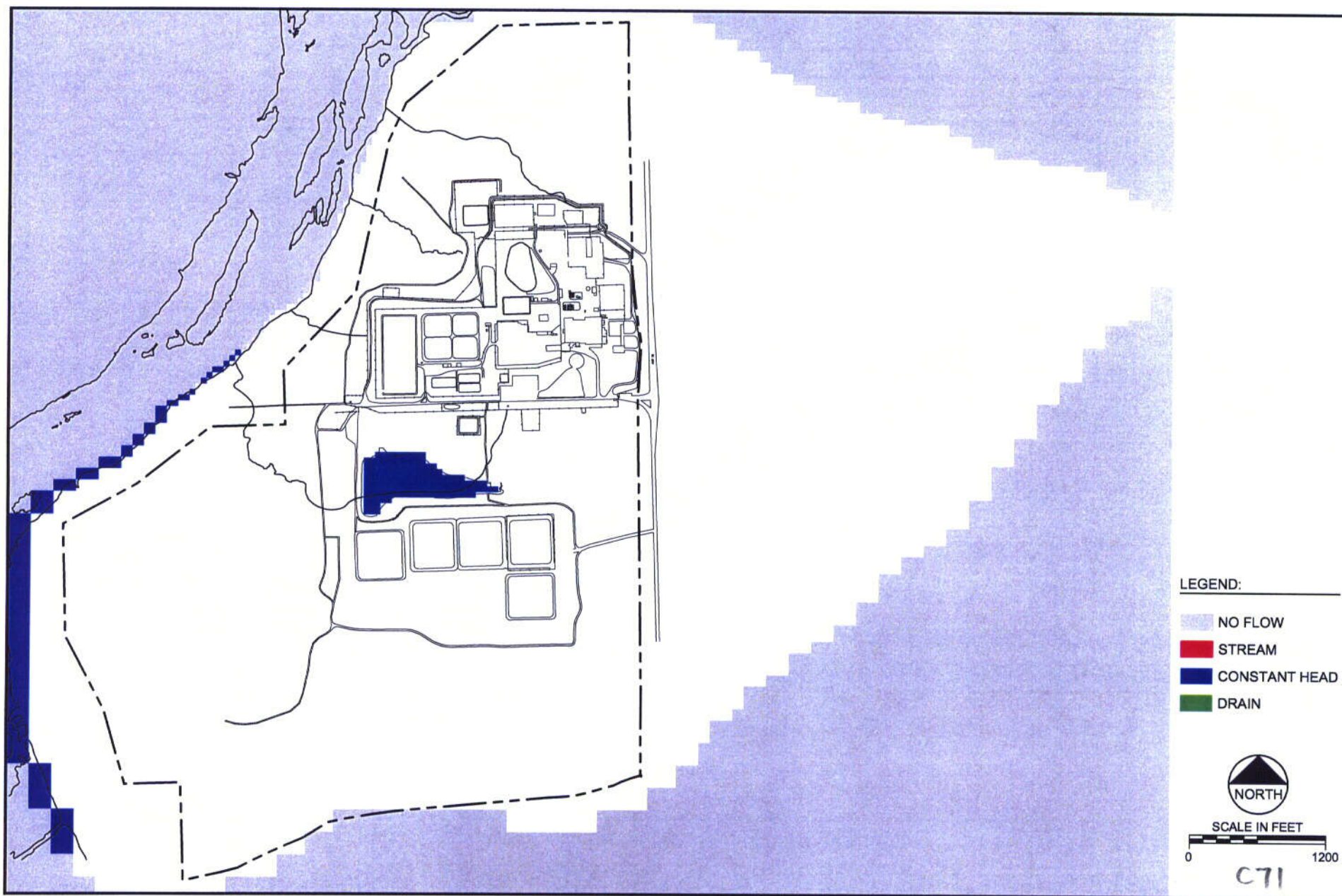


FIGURE 8-15
LAYER 5
BOUNDARY CONDITIONS