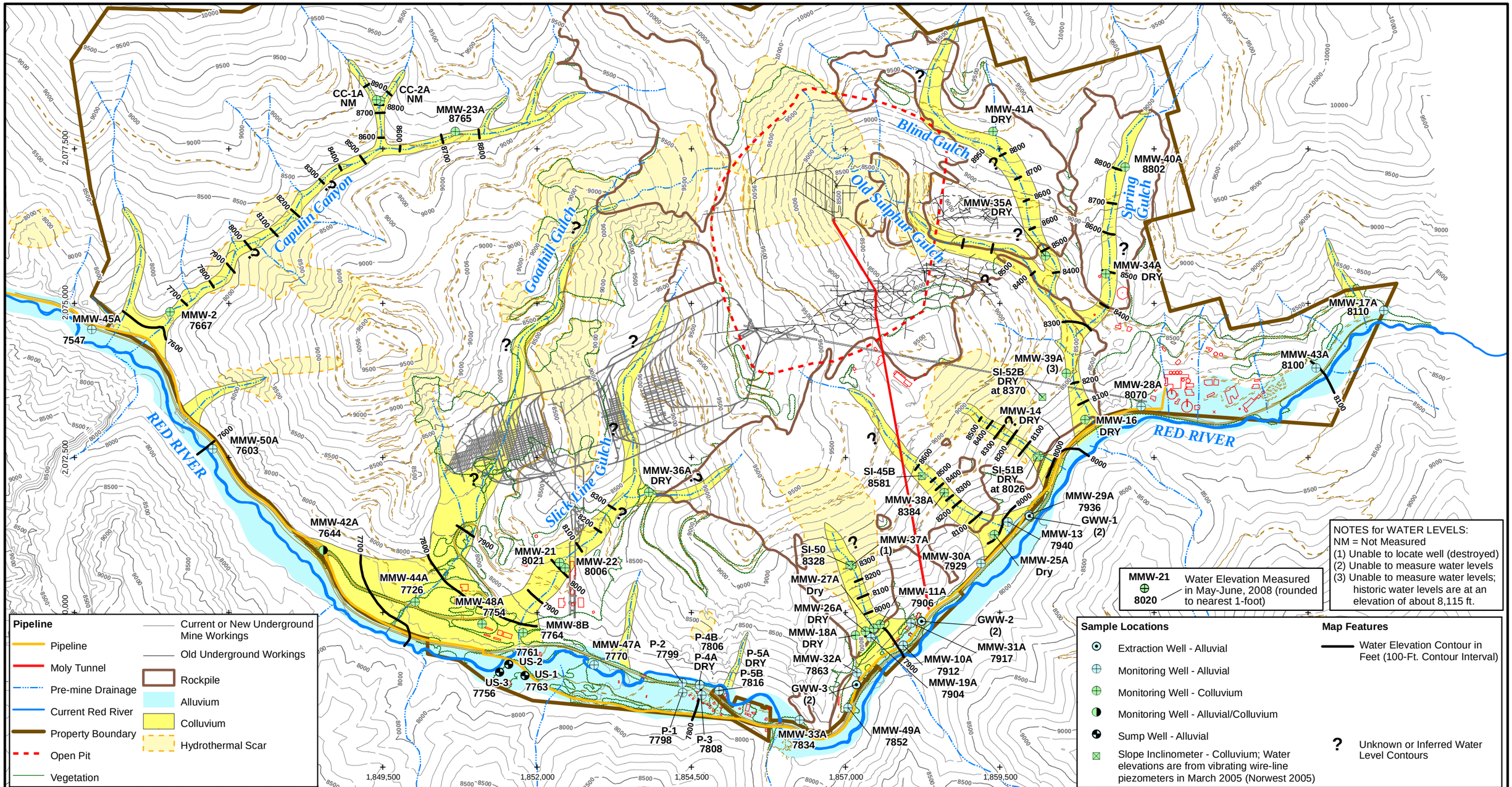

N

1,500 0 Feet

Scale 1:18000 or 1 in = 1500 ft

NOTES:
1) Mine Site and vicinity topography provided by Molycorp - Questa Mine (2005).
2) Coordinates reference State Plane, NAD83, New Mexico Central (feet)

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MOLYCORP - QUESTA MINE RI/FS

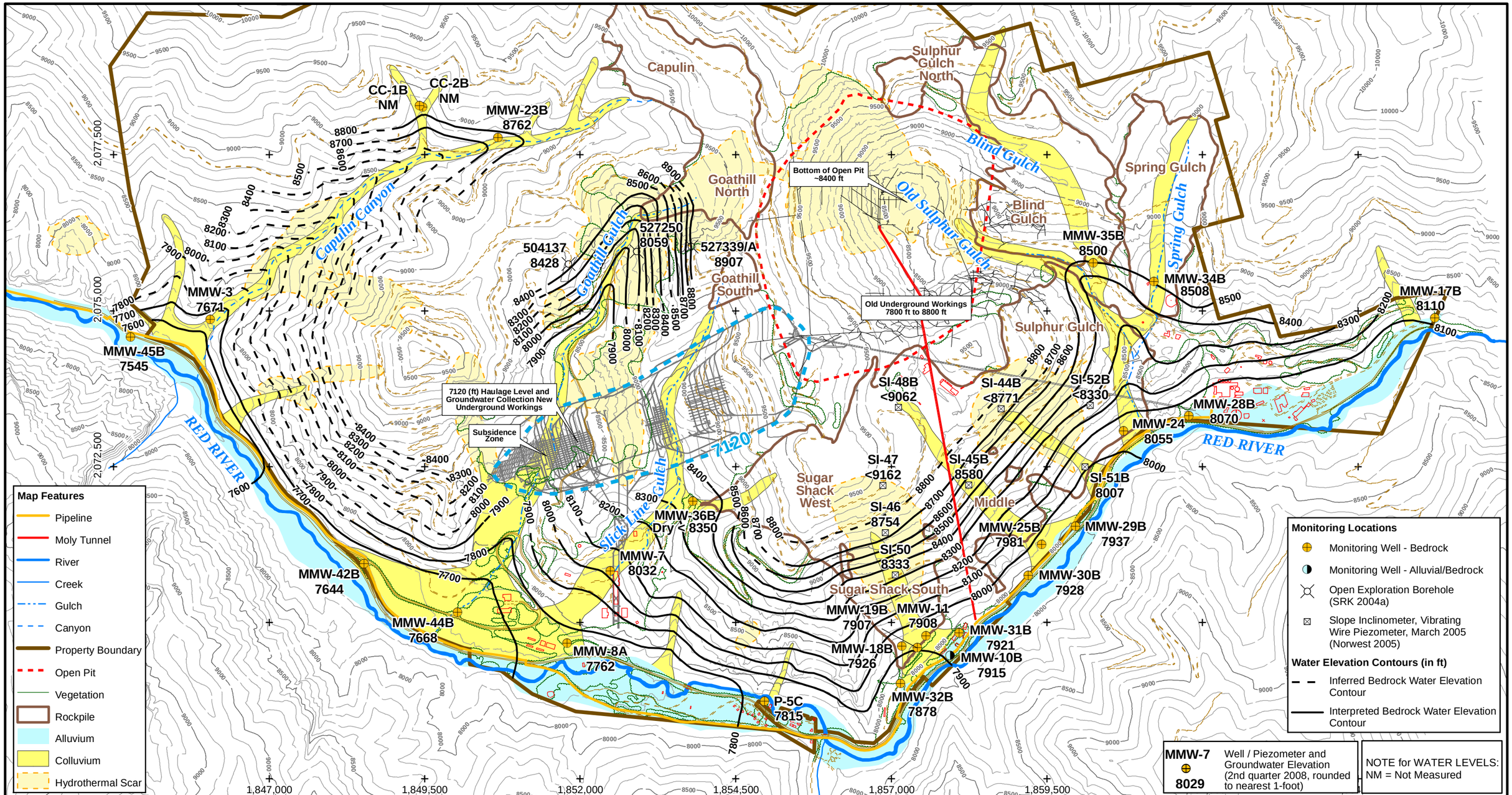
WATER TABLE CONTOUR MAP OF RED RIVER ALLUVIAL AQUIFER AND COLLUVIUM / DEBRIS FLOW WATER - BEARING UNIT (SECOND QUARTER 2008)

PROJECT 22236246

FIGURE A-1

Remedial Investigation Report

107724



N

1,500 0 Feet

Scale 1:18000 or 1 in = 1500 ft

NOTES:
Mine Site and vicinity topography provided by Molycorp - Questa Mine (2005).

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MOLYCORP - QUESTA MINE RI/FS

POTENTIOMETRIC SURFACE MAP FOR THE BEDROCK WATER-BEARING UNIT (SECOND QUARTER 2008)

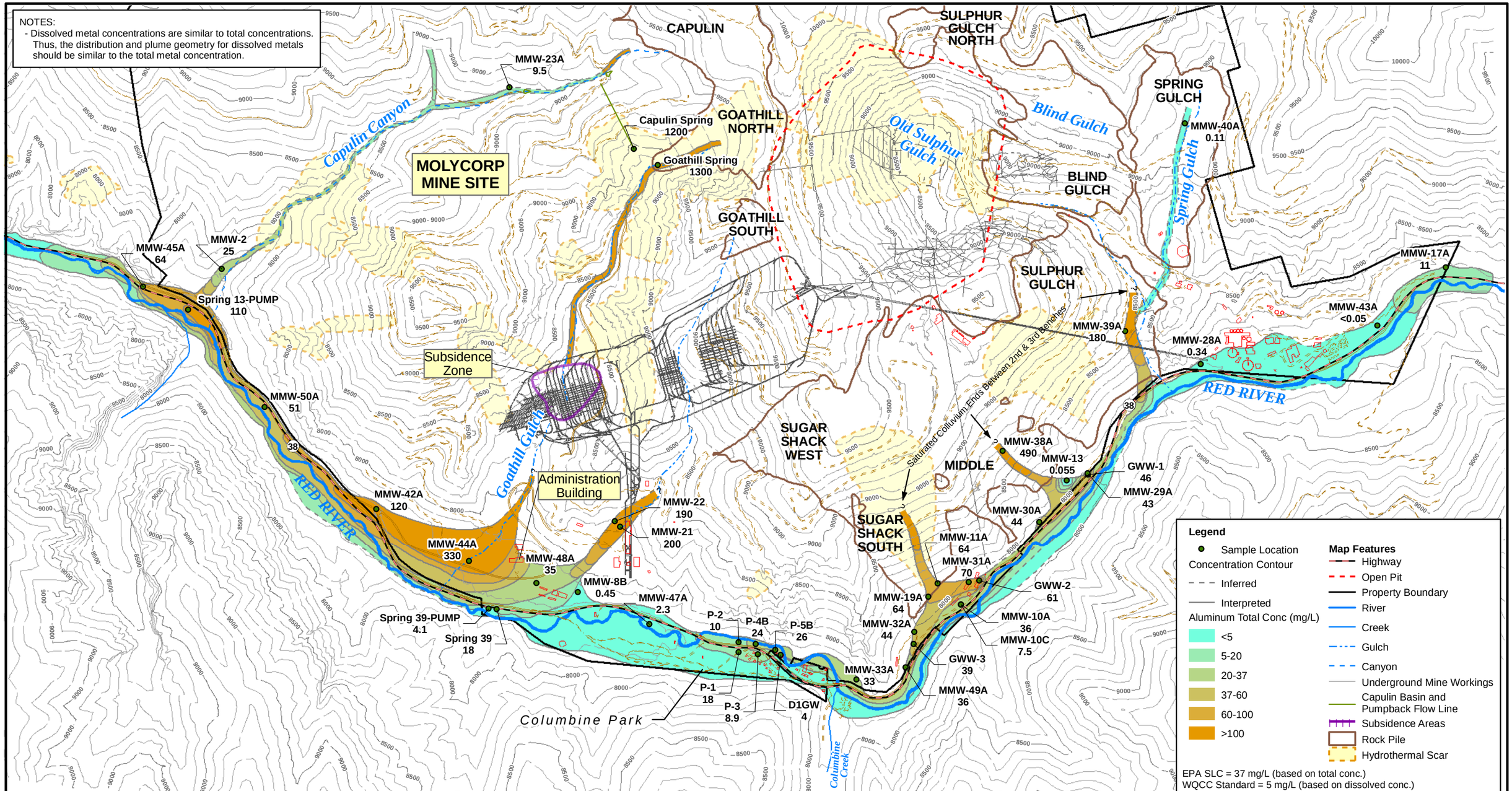
PROJECT: 22236246

FIGURE A-2

Remedial Investigation Report

107725

Attachment B
Concentration Maps for Wells at the Mine Site



N

1,500 0 Feet

Scale 1:18000 or 1 in = 1500 ft

NOTES
1. Mine Site and vicinity topography provided by Molycorp - Questa Mine (2005).

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MOLYCORP - QUESTA MINE RI/FS

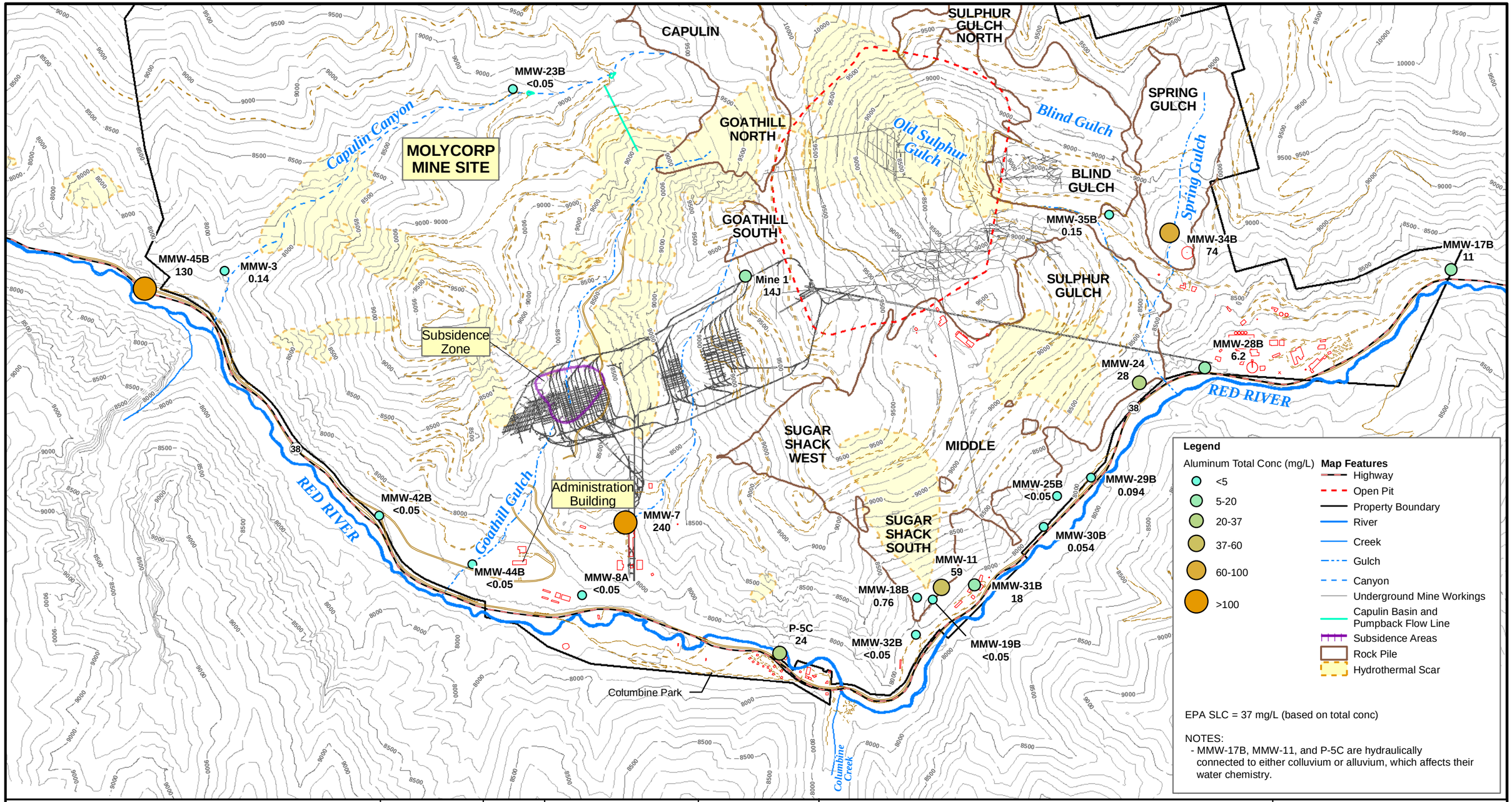
ISOCONCENTRATION CONTOUR MAP FOR ALUMINUM (TOTAL) IN RED RIVER ALLUVIAL AQUIFER AND COLLUVIAL WATER BEARING UNIT (SECOND QUARTER 2008)

PROJECT 22236246

FIGURE B-1

Remedial Investigation Report

107727



N

1,500 0 Feet

Scale 1:18000 or 1 in = 1500 ft

NOTES
1. Mine Site and vicinity topography provided by Molycorp - Questa Mine (2005).

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MOLYCORP - QUESTA MINE RI/FS

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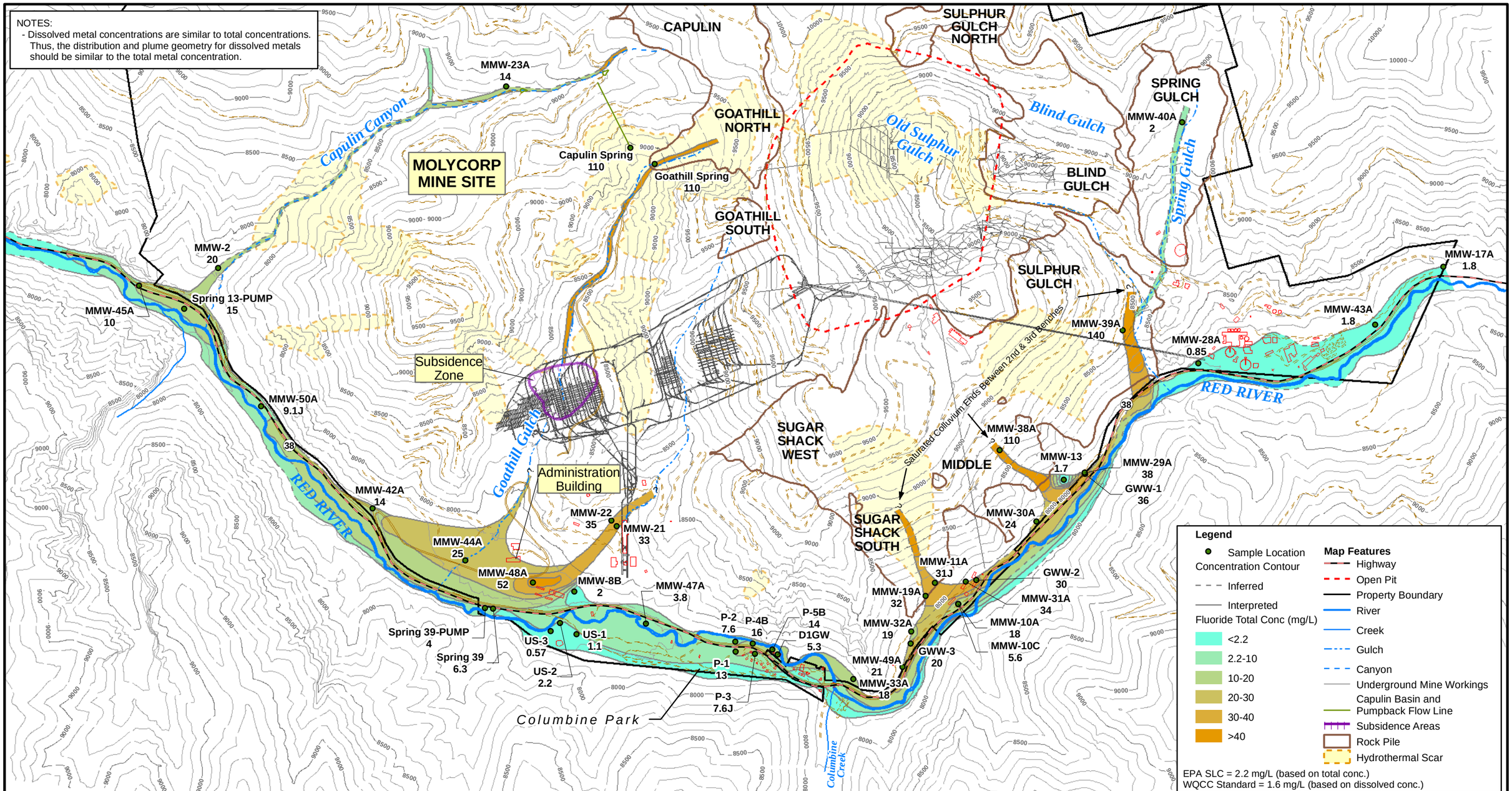
ALUMINUM (TOTAL) CONCENTRATIONS IN THE BEDROCK WATER-BEARING UNIT (SECOND QUARTER 2008)

FIGURE B-2

Remedial Investigation Report

107728



N

1,500 0 Feet

Scale 1:18000 or 1 in = 1500 ft

NOTES
1. Mine Site and vicinity topography provided by Molycorp - Questa Mine (2005).

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MOLYCORP - QUESTA MINE RI/FS

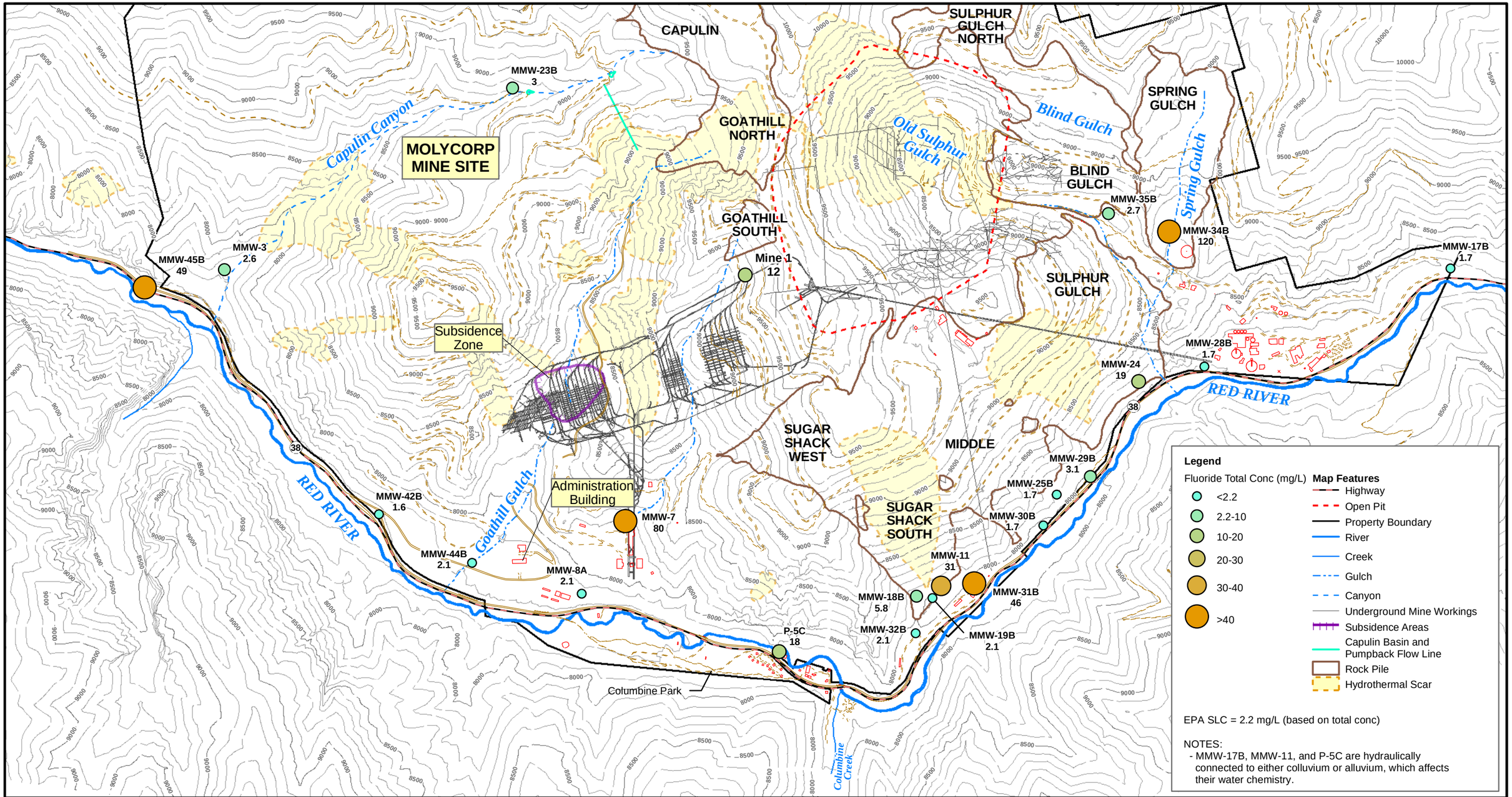
ISOCONCENTRATION CONTOUR MAP FOR FLUORIDE (TOTAL) IN RED RIVER ALLUVIAL AQUIFER AND COLLUVIAL WATER BEARING UNIT (SECOND QUARTER 2008)

PROJECT 22236246

FIGURE B-3

Remedial Investigation Report

107729



N

1,500 0 Feet

Scale 1:18000 or 1 in = 1500 ft

NOTES
1. Mine Site and vicinity topography provided by Molycorp - Questa Mine (2005).

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MOLYCORP - QUESTA MINE RI/FS

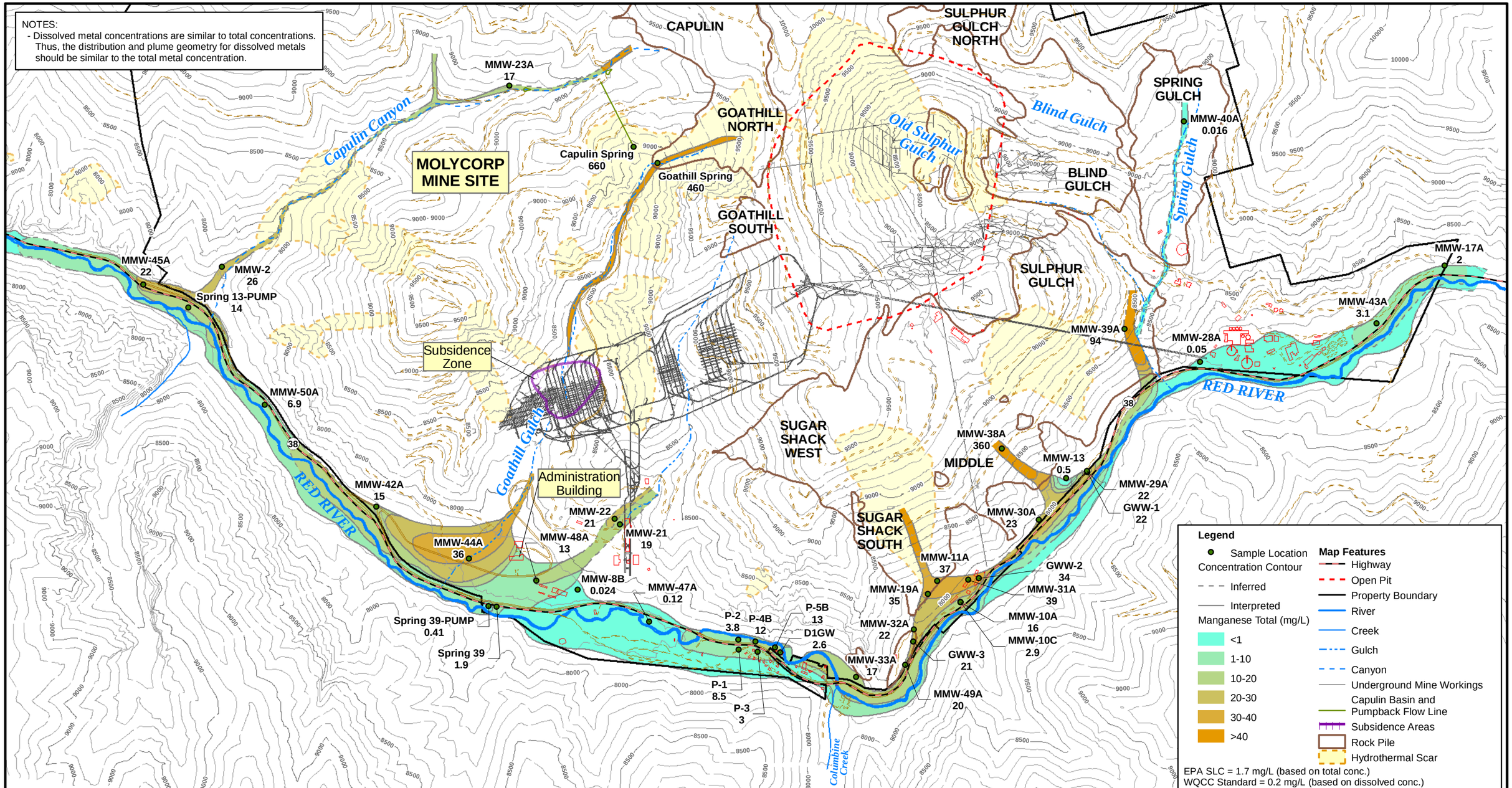
PROJECT: 22236246

FLUORIDE (TOTAL) CONCENTRATIONS IN THE BEDROCK WATER-BEARING UNIT (SECOND QUARTER 2008)

FIGURE B-4

Remedial Investigation Report

107730



N

1,500 0 Feet

Scale 1:18000 or 1 in = 1500 ft

NOTES
1. Mine Site and vicinity topography provided by Molycorp - Questa Mine (2005).

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MOLYCORP - QUESTA MINE RI/FS

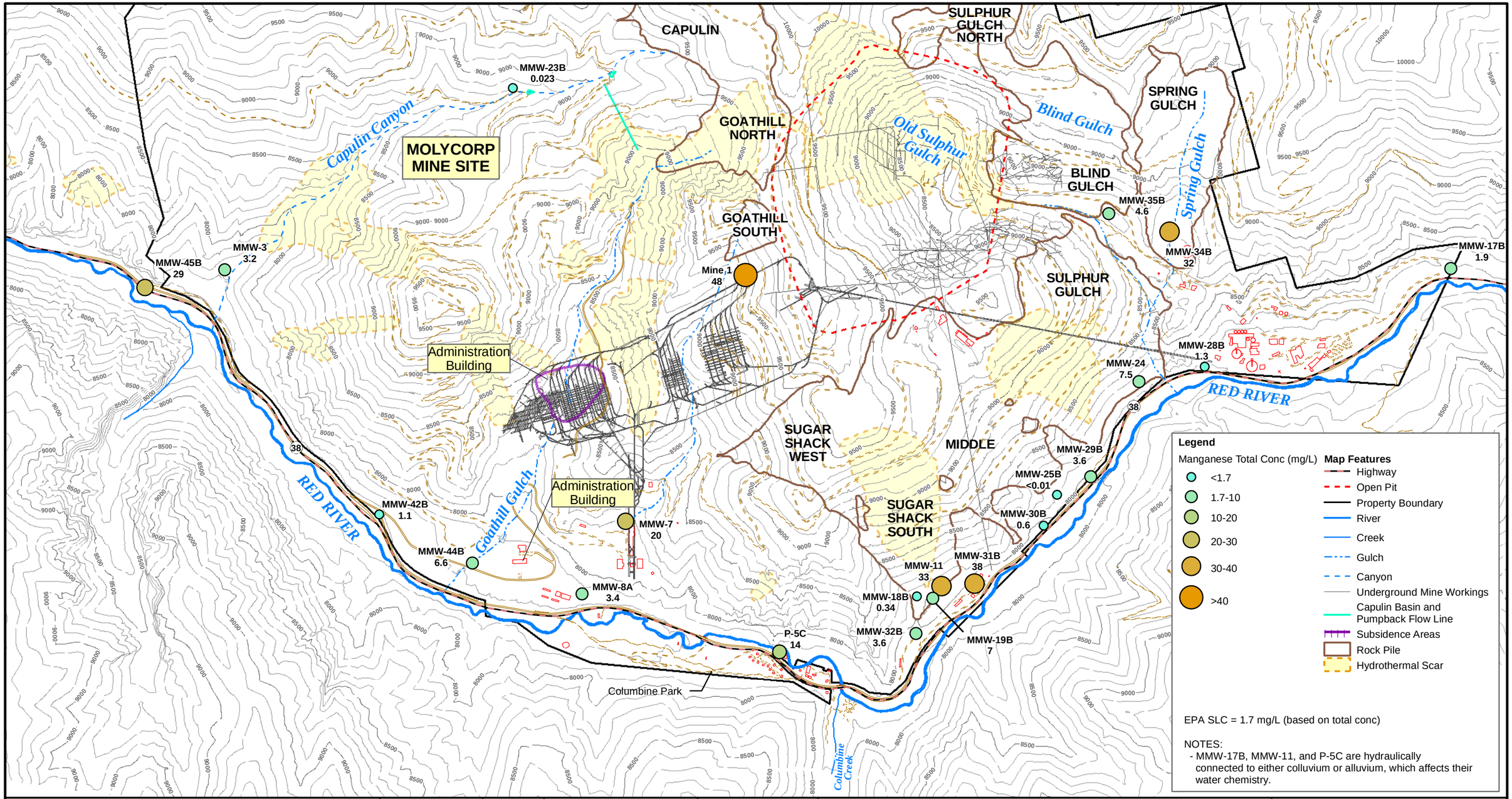
ISOCONCENTRATION CONTOUR MAP FOR MANGANESE (TOTAL) IN RED RIVER ALLUVIAL AQUIFER AND COLLUVIAL WATER BEARING UNIT (SECOND QUARTER 2008)

PROJECT 22236246

FIGURE B-5

Remedial Investigation Report

107731



N

1,500 0 Feet

Scale 1:18000 or 1 in = 1500 ft

NOTES
1. Mine Site and vicinity topography provided by Molycorp - Questa Mine (2005).

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MOLYCORP - QUESTA MINE RI/FS

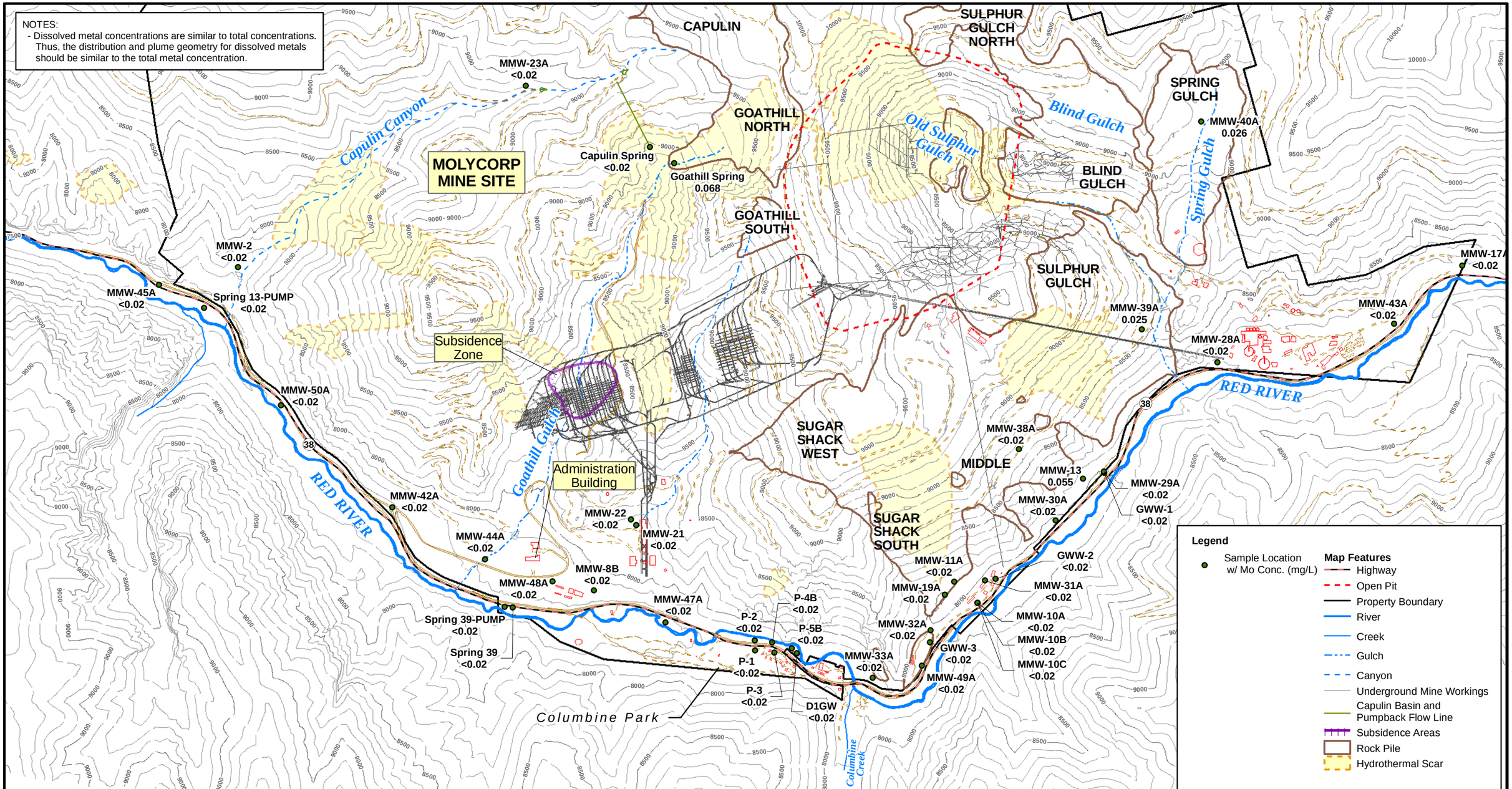
MANGANESE (TOTAL) CONCENTRATIONS IN THE BEDROCK WATER-BEARING UNIT (SECOND QUARTER 2008)

PROJECT 22236246

FIGURE B-6

Remedial Investigation Report

107732



N

NOTES
1. Mine Site and vicinity topography provided by Molycorp - Questa Mine (2005).

1,500 0 Feet
Scale 1:18000 or 1 in = 1500 ft

107733

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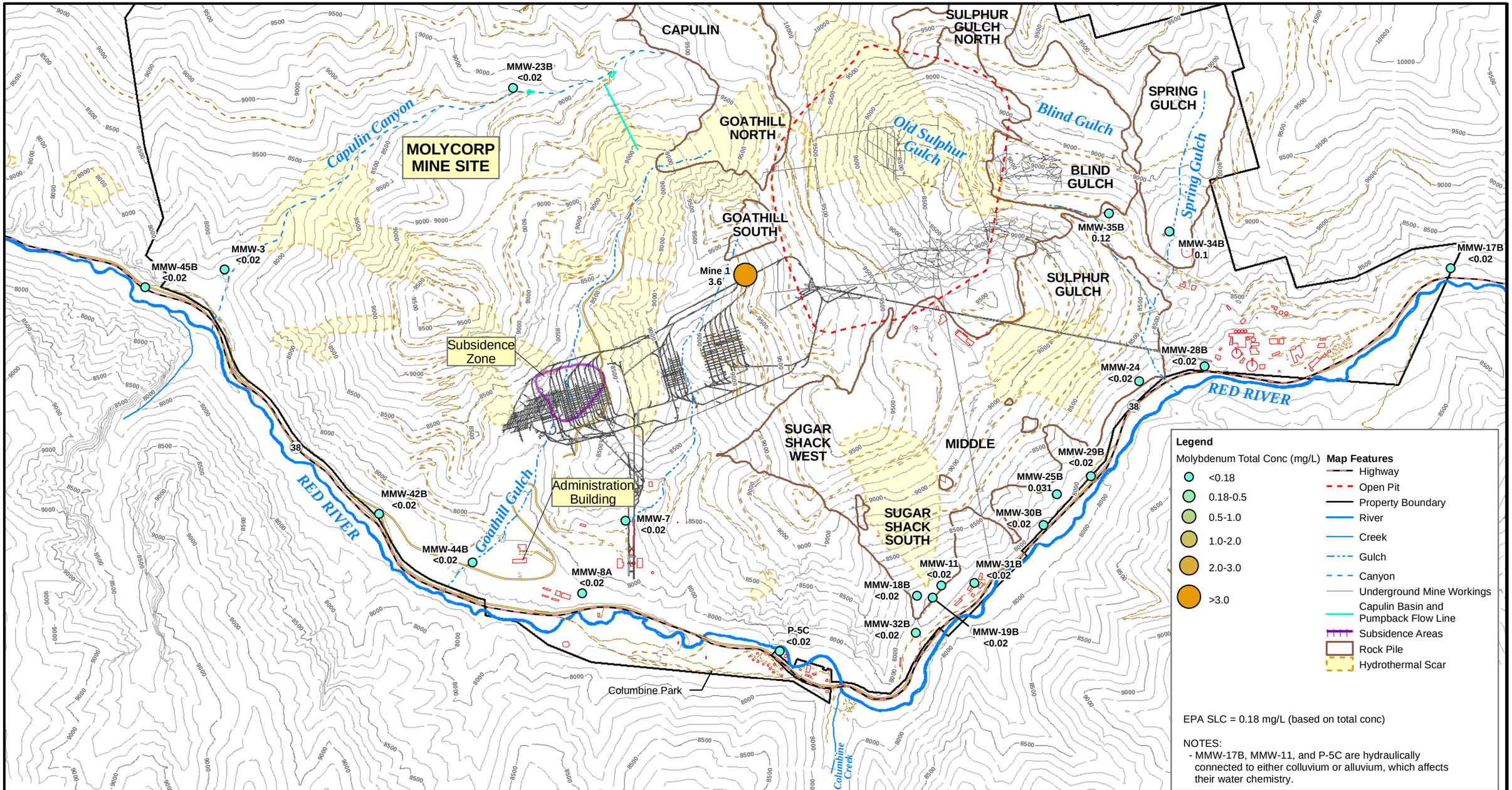
MOLYCORP - QUESTA MINE RI/FS

MOLYBDENUM (TOTAL) IN RED RIVER ALLUVIAL AQUIFER AND COLLUVIAL WATER BEARING UNIT (SECOND QUARTER 2008)

PROJECT 22236246

FIGURE B-7

Remedial Investigation Report



N

1,500 0 Feet

Scale 1:18000 or 1 in = 1500 ft

NOTES
1. Mine Site and vicinity topography provided by Molycorp - Questa Mine (2005).

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MOLYCORP - QUESTA MINE RI/FS

MOLYBDENUM (TOTAL) CONCENTRATIONS IN THE BEDROCK WATER-BEARING UNIT (SECOND QUARTER 2008)

PROJECT 22236246

FIGURE B-8

Remedial Investigation Report

107734

NOTES:
- Dissolved metal concentrations are similar to total concentrations. Thus, the distribution and plume geometry for dissolved metals should be similar to the total metal concentration.

CAPULIN
SULPHUR GULCH NORTH
MMW-23A 0.13
Capulin Canyon
Capulin Spring 6.9
Goathill Spring 5.6
GOATHILL NORTH
MOLYCORP MINE SITE
Old Sulphur Gulch
Blind Gulch
SPRING GULCH
MMW-40A <0.02
Spring Gulch
BLIND GULCH
GOATHILL SOUTH
MMW-45A 0.32
MMW-2 0.31
Spring 13-PUMP 0.41
Subsidence Zone
SULPHUR GULCH
MMW-17A 0.093
MMW-43A <0.02
MMW-39A 1.6
MMW-28A <0.02
Saturated Colluvium Ends Between 2nd & 3rd Benches
RED RIVER
MMW-50A 0.2
Goathill Gulch
SUGAR SHACK WEST
MMW-38A 4.5
MMW-13 <0.02
MIDDLE
GWW-1 0.51
MMW-29A 0.5
Administration Building
MMW-42A 0.4
MMW-44A 0.9
MMW-48A 0.91
MMW-22 0.9
MMW-21 1.3
SUGAR SHACK SOUTH
MMW-11A 0.67
MMW-30A 0.48
MMW-31A 0.77
MMW-8B 0.045
MMW-19A 0.67
GWW-2 0.66
MMW-47A 0.025
P-2 0.15
P-4B 0.33
P-5B 0.29
MMW-32A 0.39
MMW-10A 0.35
MMW-10C 0.075
Spring 39-PUMP 0.092
Spring 39 0.18
MMW-33A 0.35
GWW-3 0.42
P-1 0.35
P-3 0.16
D1GW 0.075
MMW-49A 0.39
Columbine Park
Columbine Creek

Legend

- Sample Location
- Concentration Contour
  - Inferred
  - Interpreted
- Nickel Total Conc (mg/L)
  - <0.2
  - 0.2-0.4
  - 0.4-0.6
  - 0.6-0.73
  - 0.73-1
  - >1

Map Features

- Highway
- Open Pit
- Property Boundary
- River
- Creek
- Gulch
- Canyon
- Underground Mine Workings
- Capulin Basin and Pumpback Flow Line
- Subsidence Areas
- Rock Pile
- Hydrothermal Scar

EPA SLC = 0.73 mg/L (based on total conc.)
WQCC Standard = 0.2 mg/L (based on dissolved conc.)

N

1,500 0 Feet
Scale 1:18000 or 1 in = 1500 ft

NOTES
1. Mine Site and vicinity topography provided by Molycorp - Questa Mine (2005).

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MOLYCORP - QUESTA MINE RI/FS

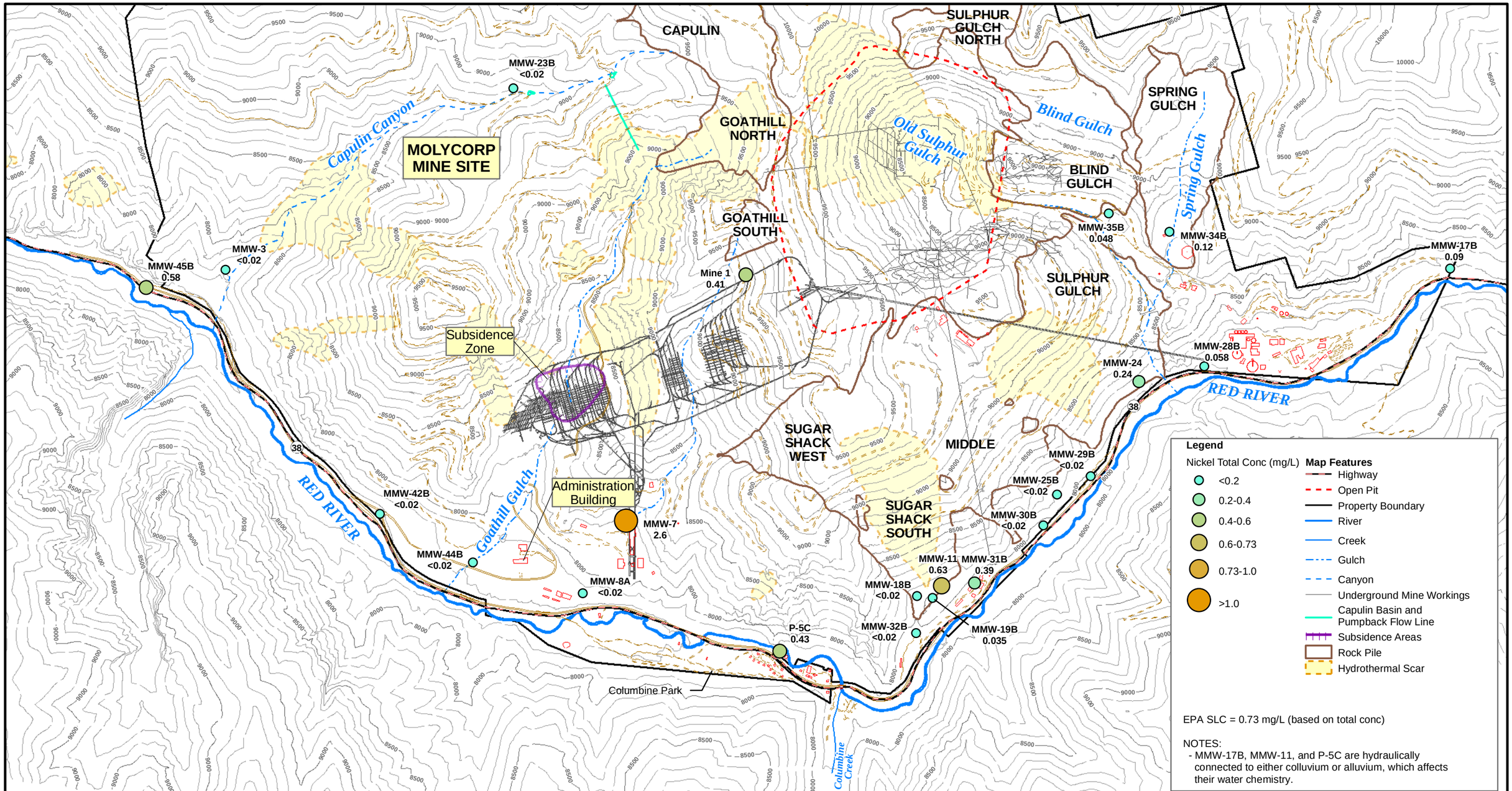
ISOCONCENTRATION CONTOUR MAP FOR NICKEL (TOTAL) IN RED RIVER ALLUVIAL AQUIFER AND COLLUVIAL WATER BEARING UNIT (SECOND QUARTER 2008)

PROJECT 22236246

FIGURE B-9

Remedial Investigation Report

107735



N

1,500 0 Feet

Scale 1:18000 or 1 in = 1500 ft

NOTES
1. Mine Site and vicinity topography provided by Molycorp - Questa Mine (2005).

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MOLYCORP - QUESTA MINE RI/FS

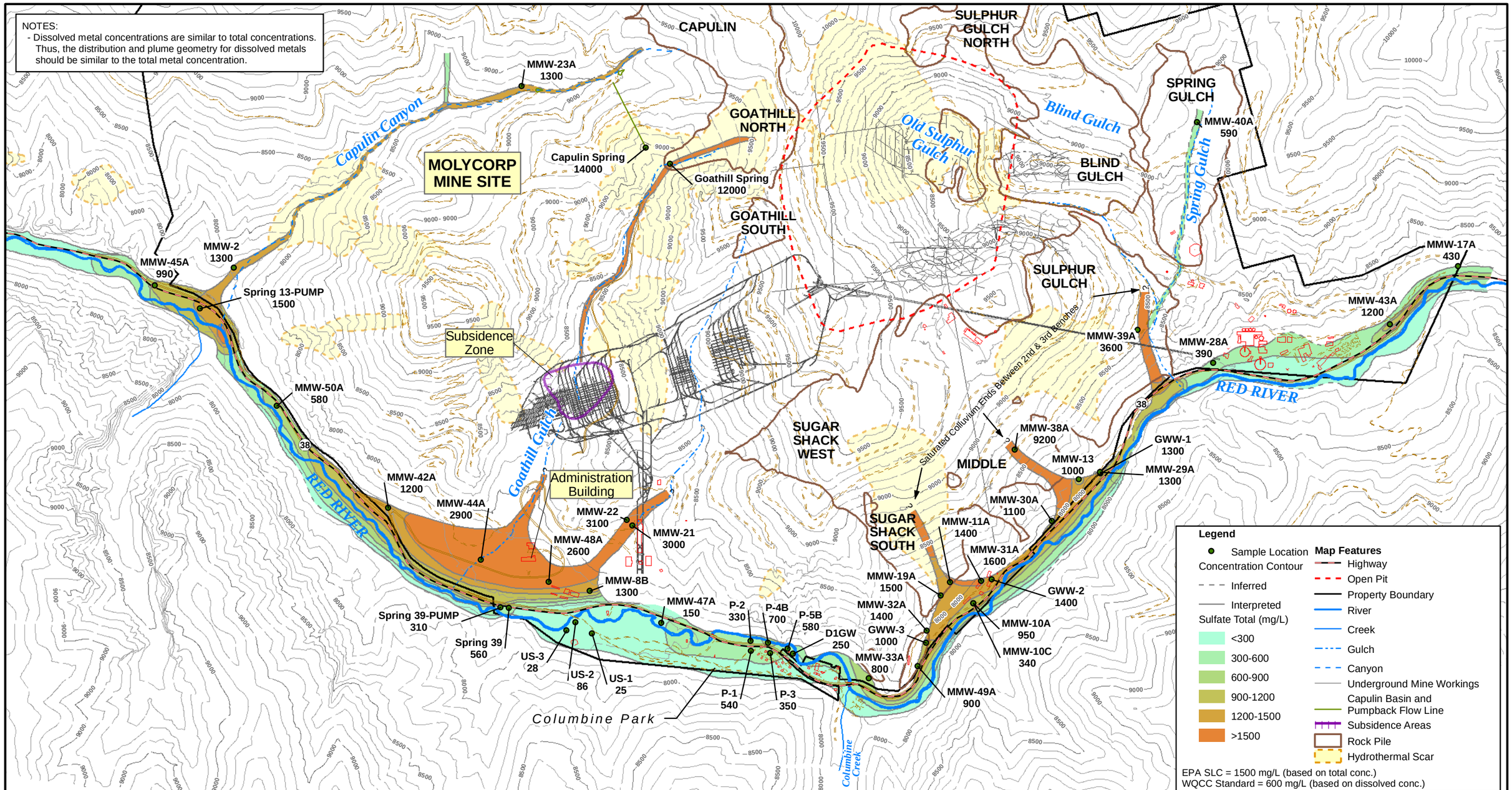
PROJECT: 22236246

NICKEL (TOTAL) CONCENTRATIONS IN THE BEDROCK WATER-BEARING UNIT (SECOND QUARTER 2008)

FIGURE B-10

Remedial Investigation Report

107736



N

1,500 0 Feet

Scale 1:18000 or 1 in = 1500 ft

NOTES
1. Mine Site and vicinity topography provided by Molycorp - Questa Mine (2005).

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MOLYCORP - QUESTA MINE RI/FS

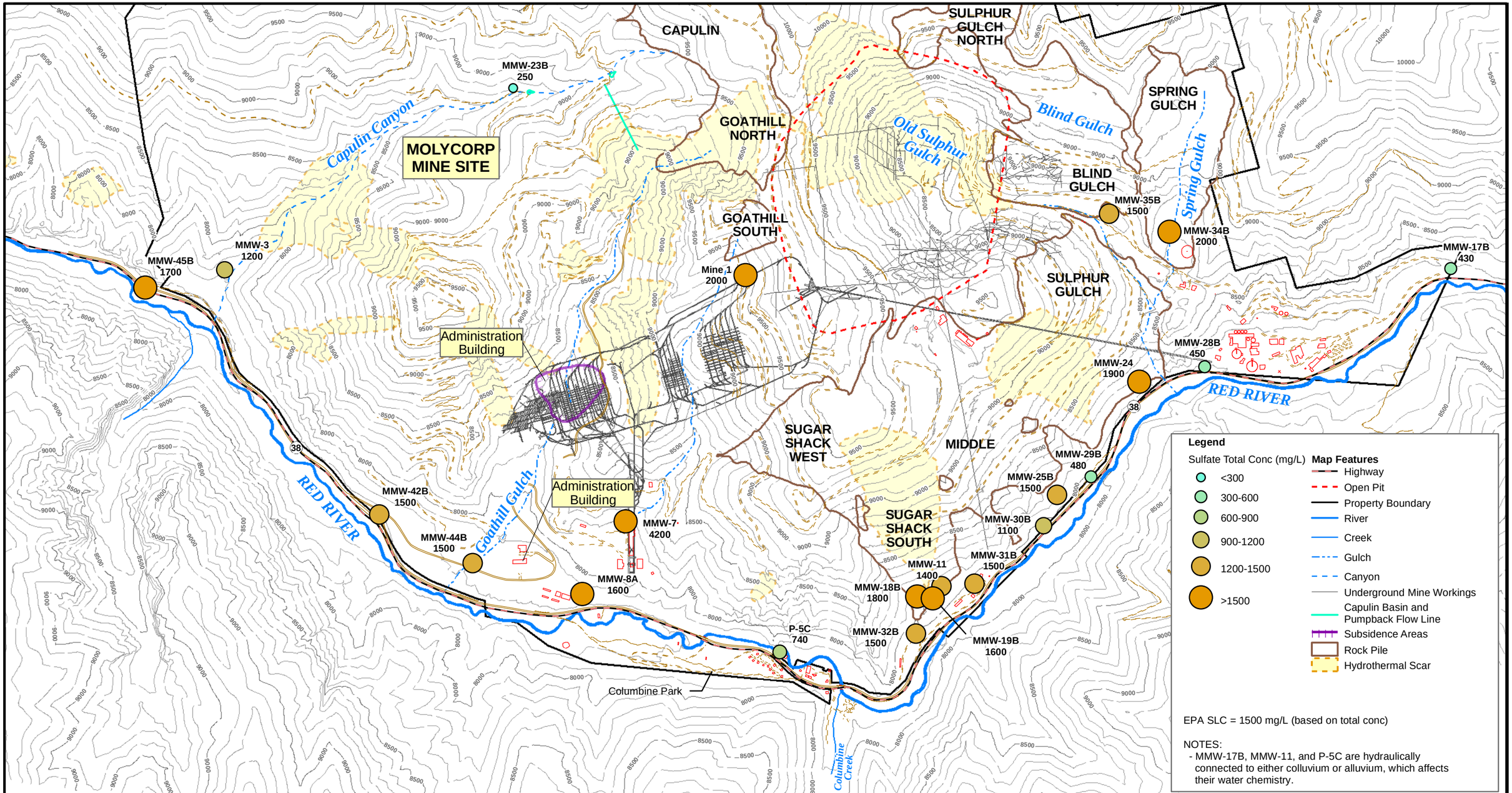
ISOCONCENTRATION CONTOUR MAP FOR SULFATE (TOTAL) IN RED RIVER ALLUVIAL AQUIFER AND COLLUVIAL WATER BEARING UNIT (SECOND QUARTER 2008)

PROJECT 22236246

FIGURE B-11

Remedial Investigation Report

107737



N

1,500 0 Feet

Scale 1:18000 or 1 in = 1500 ft

NOTES
1. Mine Site and vicinity topography provided by Molycorp - Questa Mine (2005).

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MOLYCORP - QUESTA MINE RI/FS

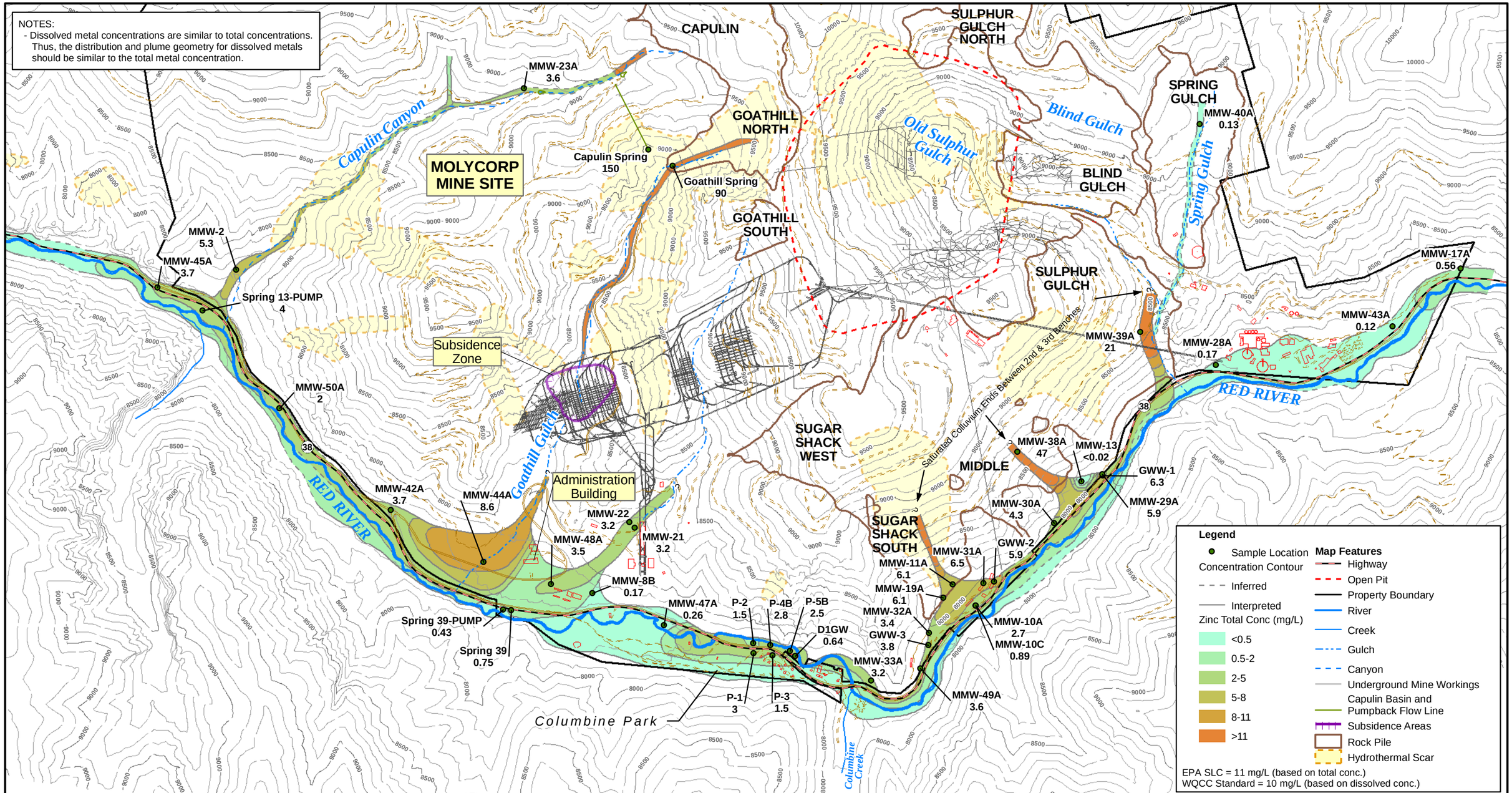
SULFATE (TOTAL) CONCENTRATIONS IN THE BEDROCK WATER-BEARING UNIT (SECOND QUARTER 2008)

PROJECT 22236246

FIGURE B-12

Remedial Investigation Report

107738



N

1,500 0 Feet

Scale 1:18000 or 1 in = 1500 ft

NOTES
1. Mine Site and vicinity topography provided by Molycorp - Questa Mine (2005).

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MOLYCORP - QUESTA MINE RI/FS

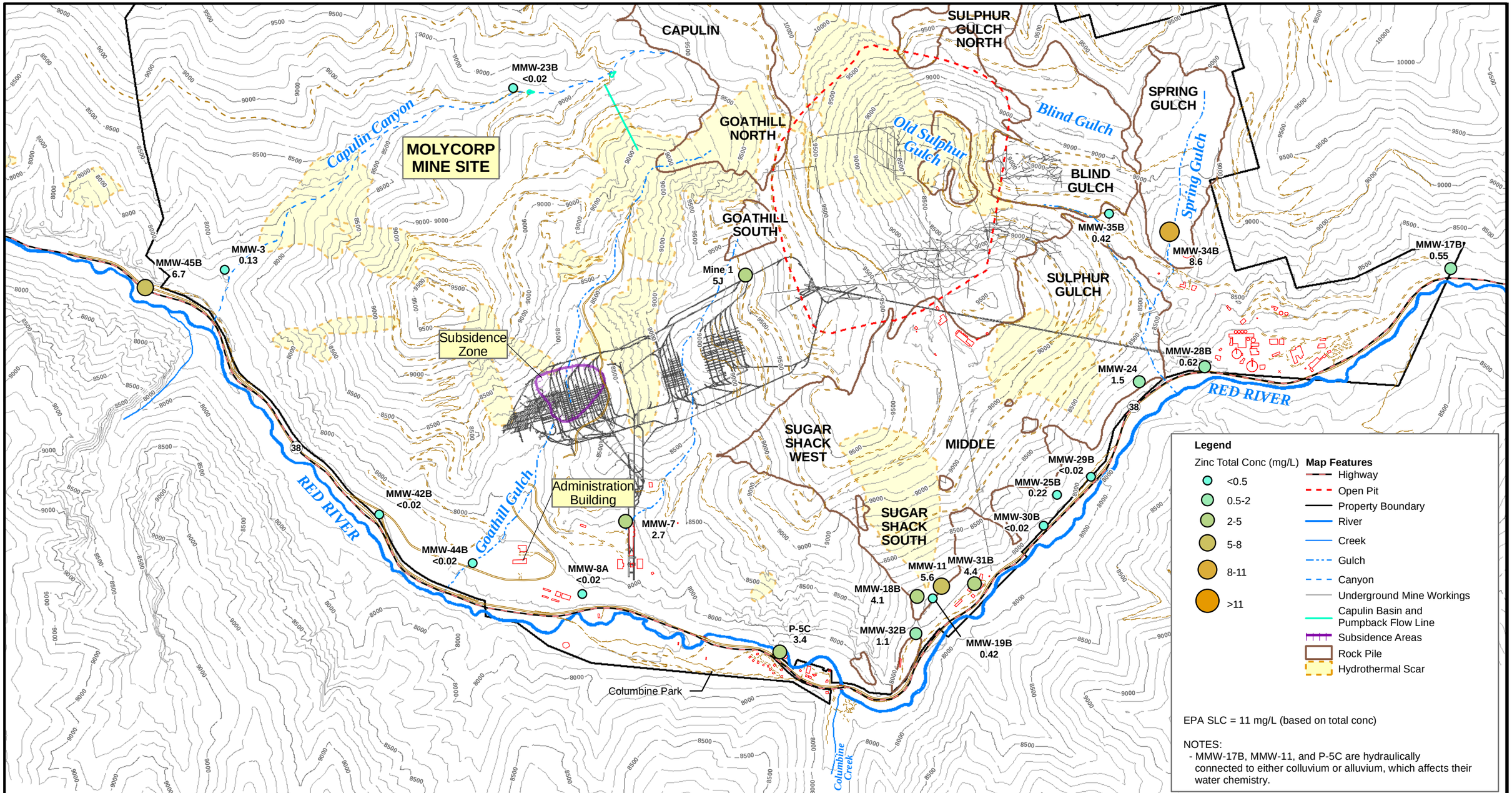
ISOCONCENTRATION CONTOUR MAP FOR ZINC (TOTAL) IN RED RIVER ALLUVIAL AQUIFER AND COLLUVIAL WATER BEARING UNIT (SECOND QUARTER 2008)

PROJECT 22236246

FIGURE B-13

Remedial Investigation Report

107739



N

1,500 0 Feet

Scale 1:18000 or 1 in = 1500 ft

NOTES
1. Mine Site and vicinity topography provided by Molycorp - Questa Mine (2005).

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MOLYCORP - QUESTA MINE RI/FS

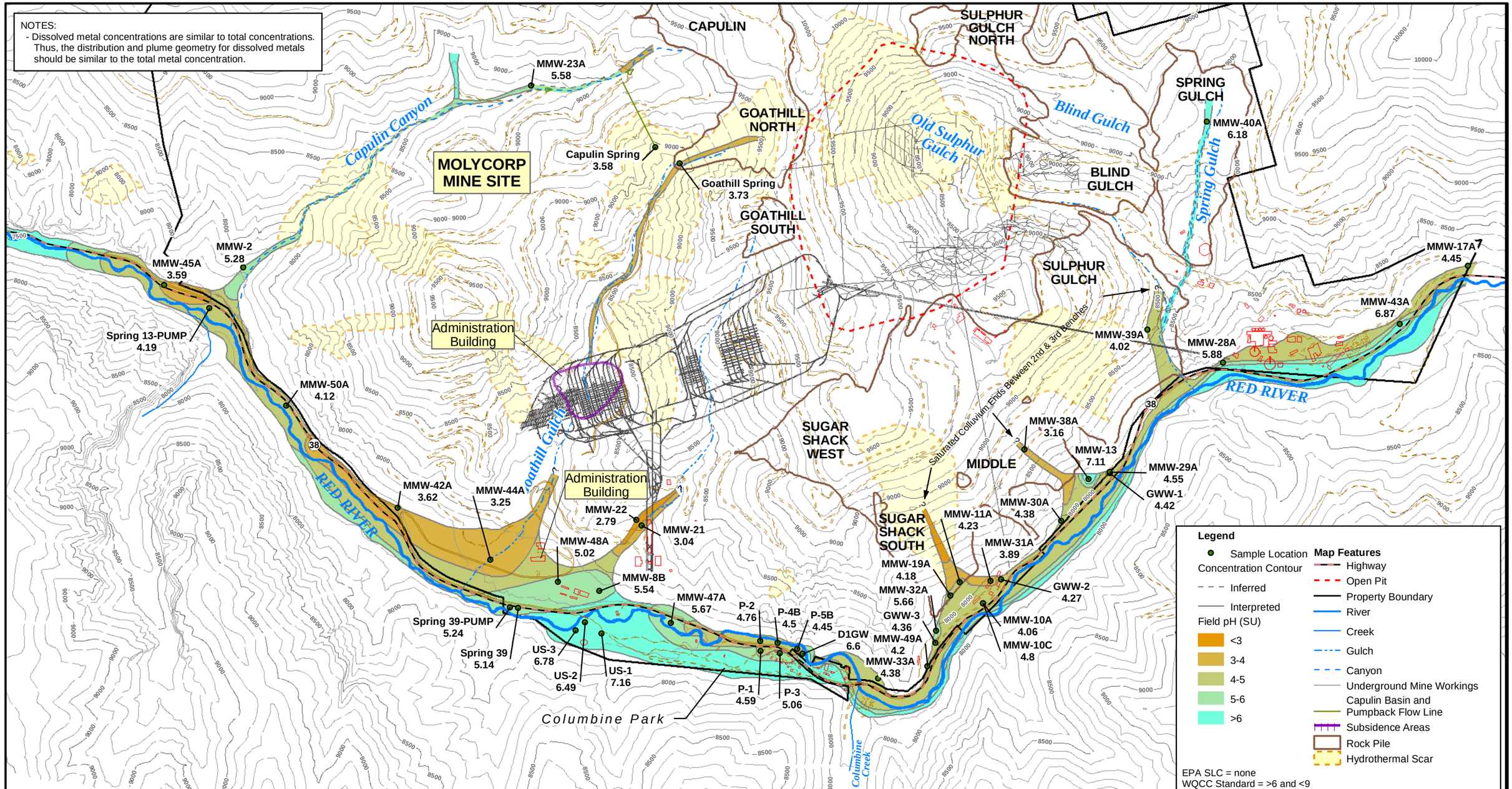
ZINC (TOTAL) CONCENTRATIONS IN THE BEDROCK WATER-BEARING UNIT (SECOIND QUARTER 2008)

PROJECT 22236246

FIGURE B-14

Remedial Investigation Report

107740



N

1,500 0 Feet

Scale 1:18000 or 1 in = 1500 ft

NOTES
1. Mine Site and vicinity topography provided by Molycorp - Questa Mine (2005).

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FILE NAME: app1-0-1figb-15.mxd
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MOLYCORP - QUESTA MINE RI/FS

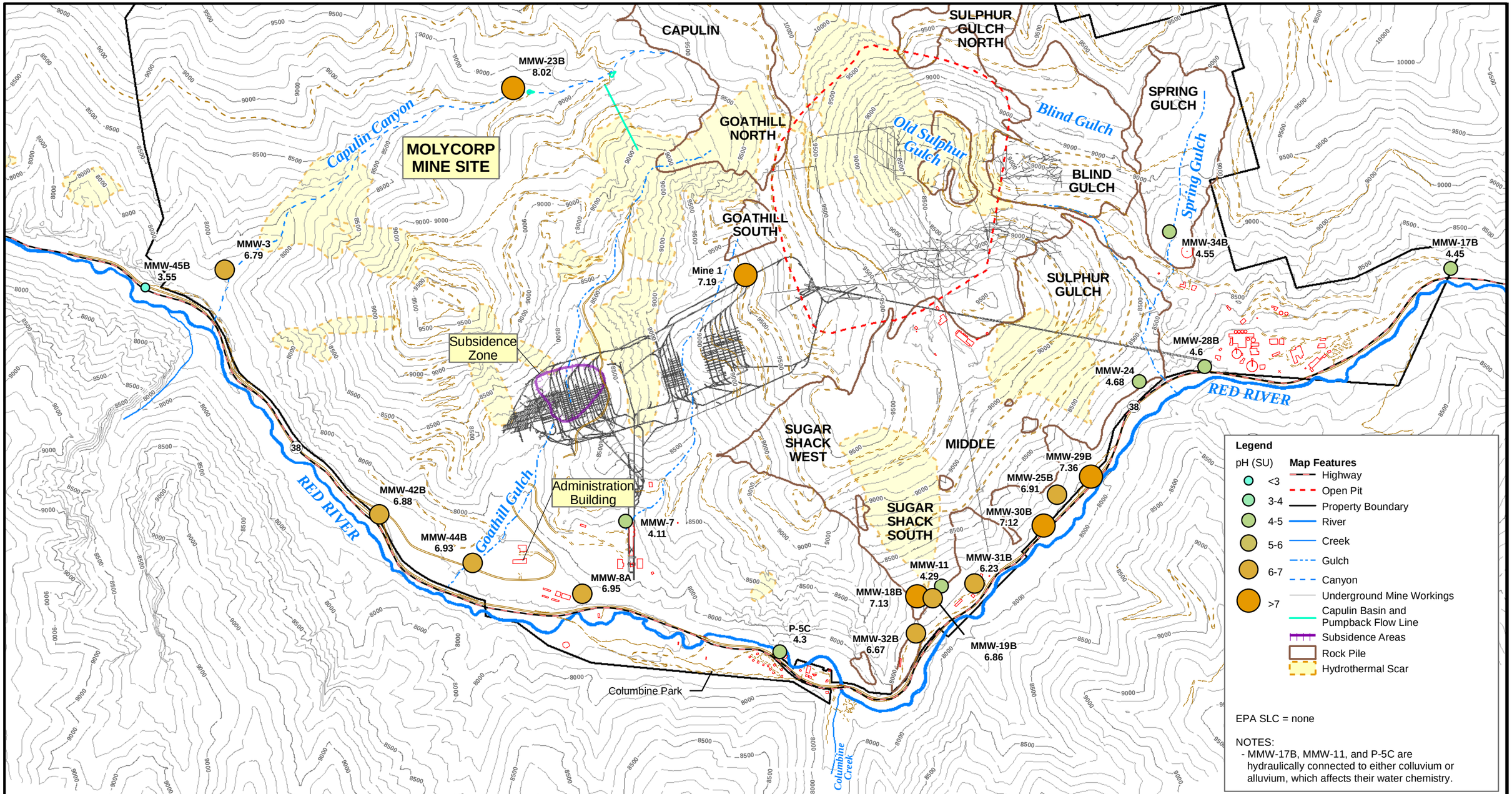
ISOCONCENTRATION CONTOUR MAP FOR pH IN RED RIVER ALLUVIAL AQUIFER AND COLLUVIAL WATER BEARING UNIT (SECOND QUARTER 2008)

PROJECT 22236246

FIGURE B-15

Remedial Investigation Report

107741



N

1,500 0 Feet

Scale 1:18000 or 1 in = 1500 ft

NOTES
1. Mine Site and vicinity topography provided by Molycorp - Questa Mine (2005).

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MOLYCORP - QUESTA MINE RI/FS

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pH VALUES
IN THE BEDROCK WATER-BEARING
UNIT (SECOND QUARTER 2008)

FIGURE B-16

Remedial Investigation Report

107742