TYPICAL MONITORING WELL COMPLETION DETAILS FOR ALLUVIAL AND BEDROCK WELLS

NOT TO SCALE

PROTECTIVE STEEL LOCKING COVER

6" OR 8" DIA. BLACK STEEL SURFACE CASING

PVC TOP CAP

18"-24" ABOVE GRADE

EXISTING GROUND SURFACE

SURFACE SEAL-BENTONITE OR CONCRETE

BENTONITE ANNULAR SEAL

2" OR 4.5" DIA. SCH. 40 PVC CASING

FACTORY SLOTTED SCH. 40 PVC SCREEN

SILICA SAND PACK

PVC BOTTOM CAP

OTTER CREEK MINE, PERMIT ID: C2012018
BASELINE REPORT 304E
TRACTS 1, 2, AND 3 BASELINE WATER RESOURCES DATA REPORT

TYPICAL MONITORING WELL CONSTRUCTION

FIGURE 2-1
Otter Creek Mine, Permit ID: C2012018
Baseline Report 304E
Tracts 1, 2, and 3 Baseline Water Resources Data Report

Piper Diagram
Overburden

Cations

- Ca
- Mg
- Na+K
- HCO3+CO3

Anions

- Cl
- SO4

Calcium (Ca) + Magnesium (Mg)
Sulfate (SO4) + Chloride (Cl)
Carbonate (CO3) + Bicarbonate (HCO3)
Sodium (Na) + Potassium (K)

Coordinates:
- B10-O
- B11-O
- B12-CO
- B4-O
- B5-O
- B6-O
- B7-O
- B8-O
Irrigation Valve Box (Flush With Ground)

Concrete Blocks used to Anchor Pipe to Stream Bed

Data Logger

1-Inch HDPE Pipe (Buried at Irrigation Valve Box, Daylights at Stream Bank)

Perforated Well Point (Bolted to Concrete Block)

Pressure Transducer

Schematic drawing - not to scale, view in downstream direction
Typical Sand Point With Capacitance Probe and Passive Samplers

TruTrak Water Level Recorder and Data Logger

Locking lid
2" Steel riser pipe

2" Sand Point

0 Datum is Level of Stream Bed

Passive Samplers

Typical Crest Gage

T-Post

2" PVC Riser Pipe

Crest Gage 1" x 2" Wood Post

Crushed Cork in Poly Cup

0 Datum is Level of Stream Bed

Passive Samplers

Schematic Drawings - Not to Scale, View in Downstream Direction
Surface Water Stations

- SW-1
- SW-10
- SW-11
- SW-12
- SW-13
- SW-14
- SW-15
- SW-16
- SW-17
- SW-18
- SW-1A
- SW-2
- SW-20
- SW-22
- SW-23
- SW-25
- SW-3
- SW-4
- SW-6
- SW-7
- SW-8
- SW-9

CATIONS

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- Na+K
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- SW-1
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