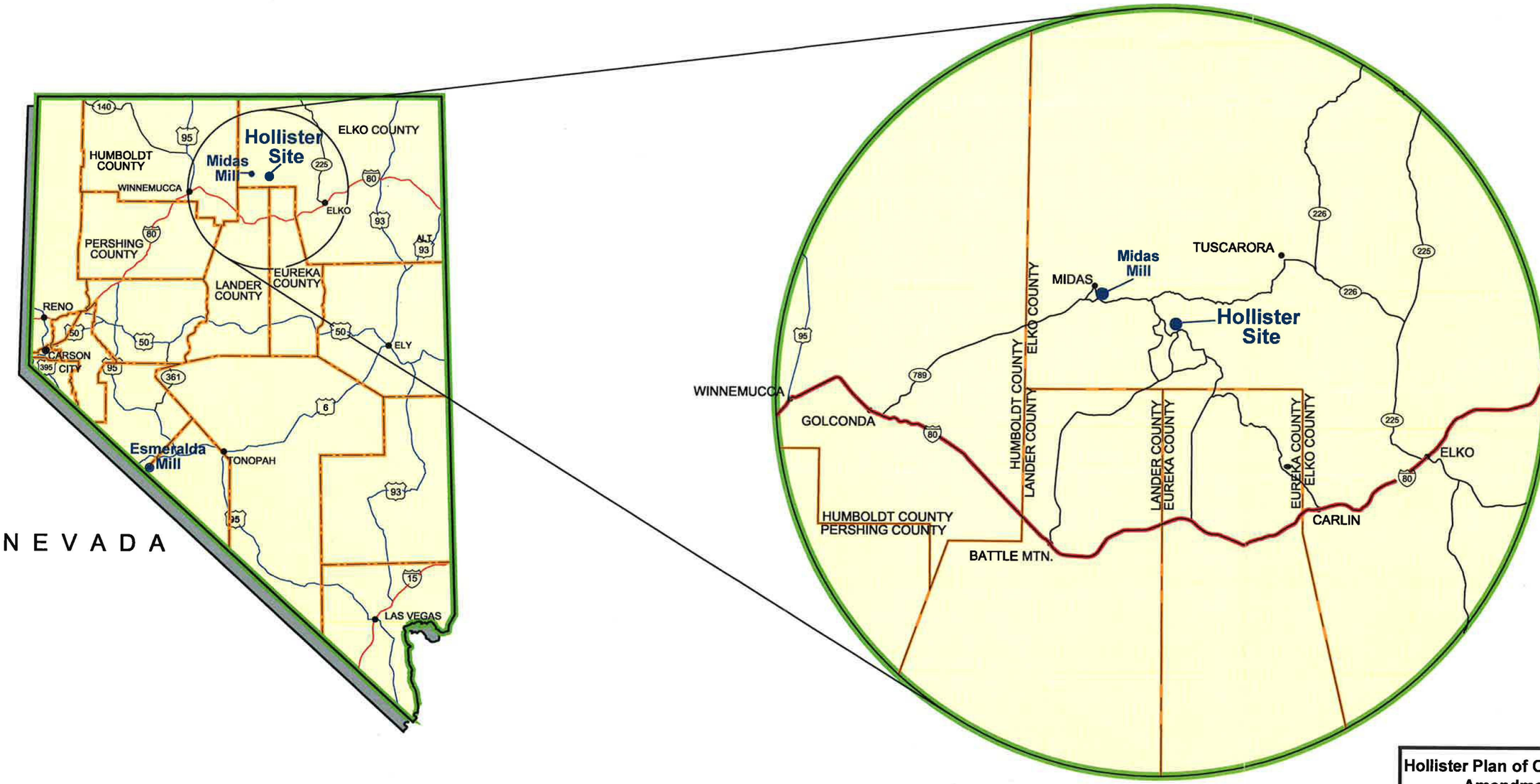


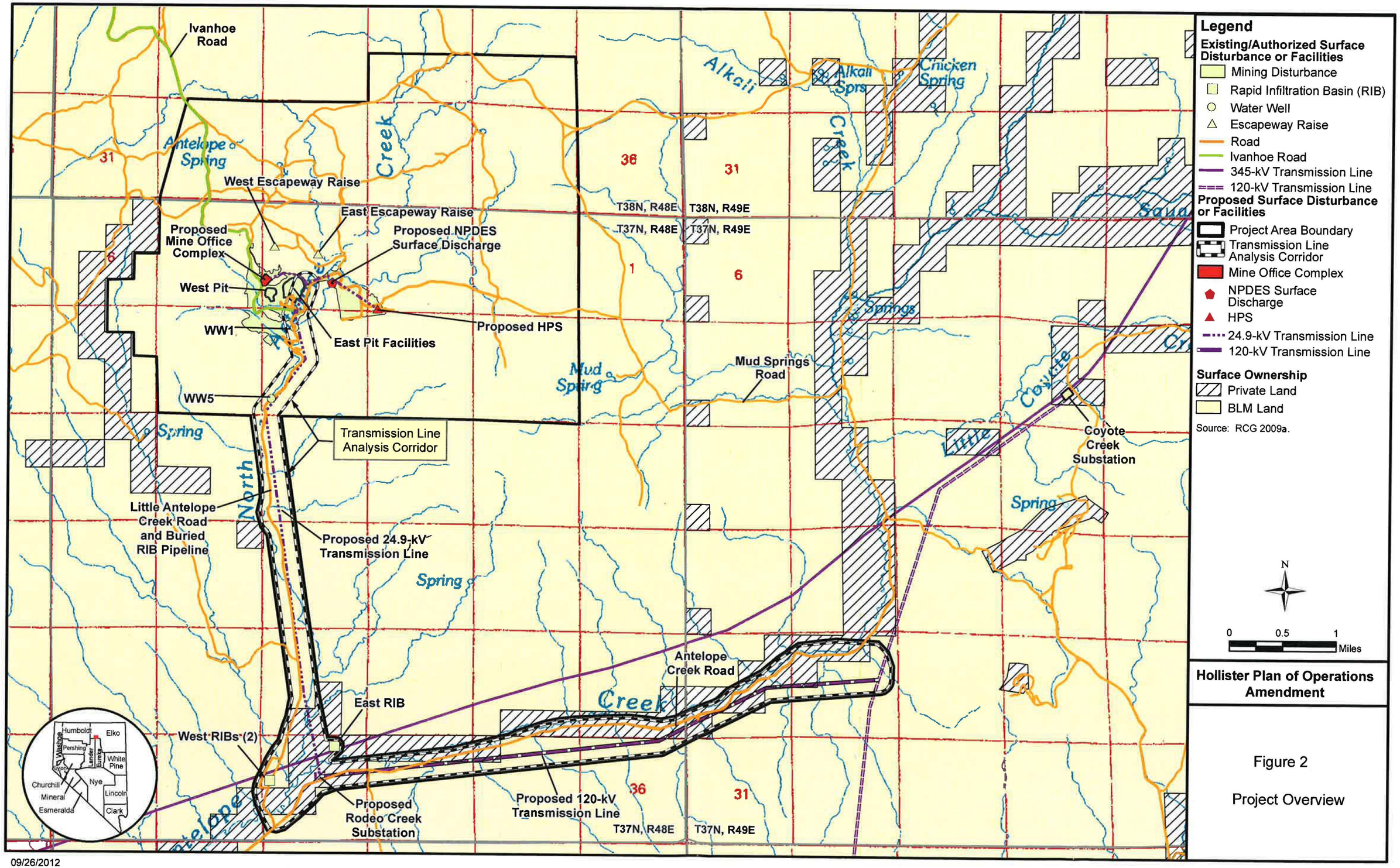
Source: RCG 2009a.

Hollister Plan of Operations Amendment

Figure 1

General Location of the Hollister Site and Other Facilities

09/26/2012

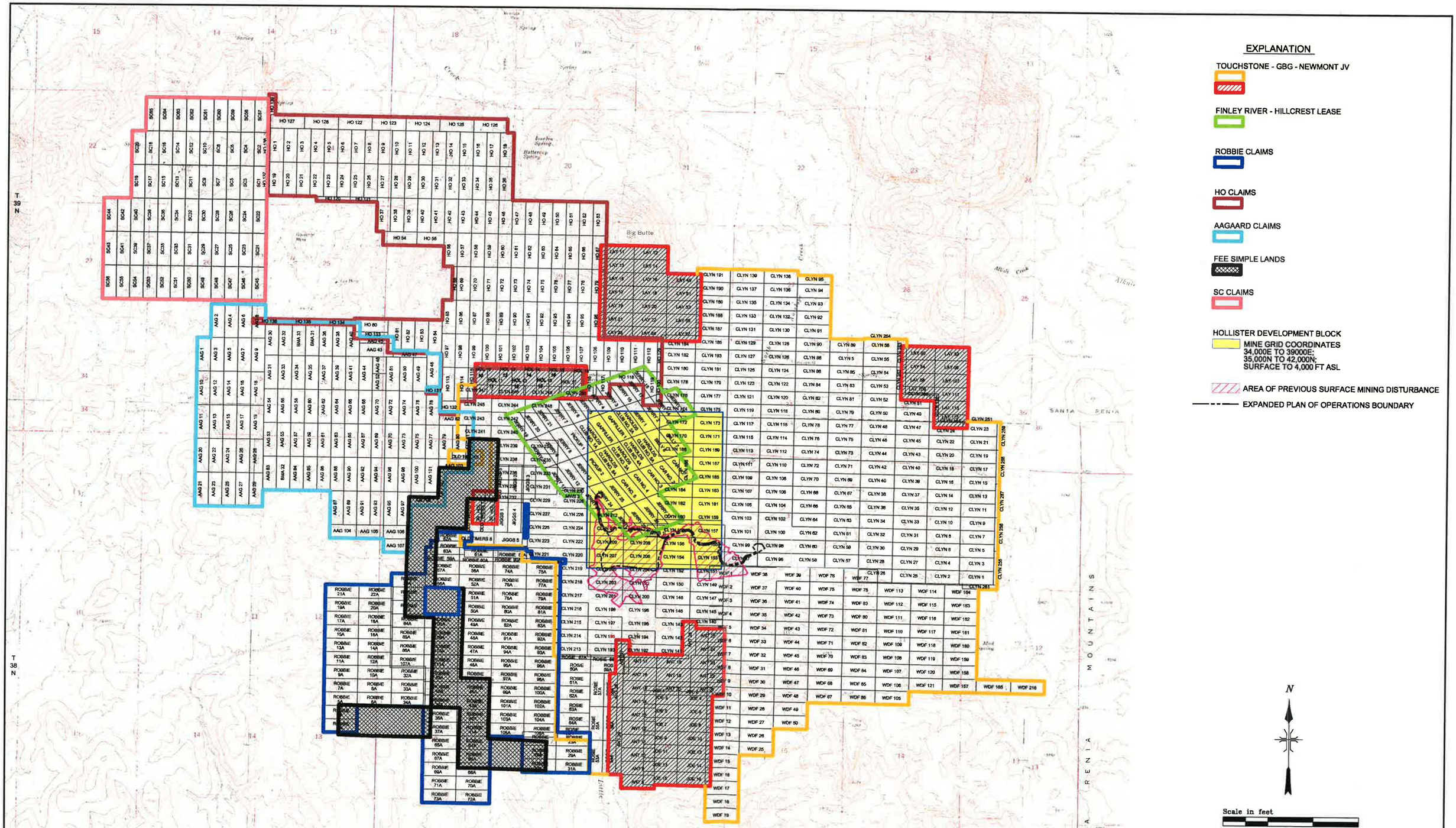


Hollister Plan of Operations Amendment

Figure 2

Project Overview

09/26/2012



GREAT BASIN GOLD LIMITED

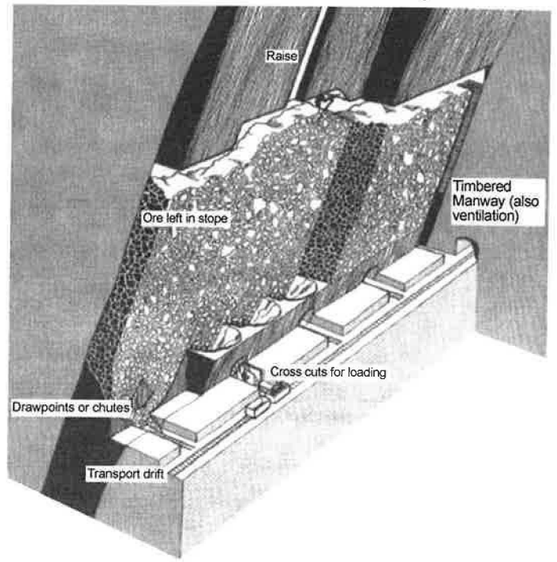
RODEO CREEK GOLD INC.

HOLLISTER MINE - FULL PRODUCTION PLAN OF OPERATIONS

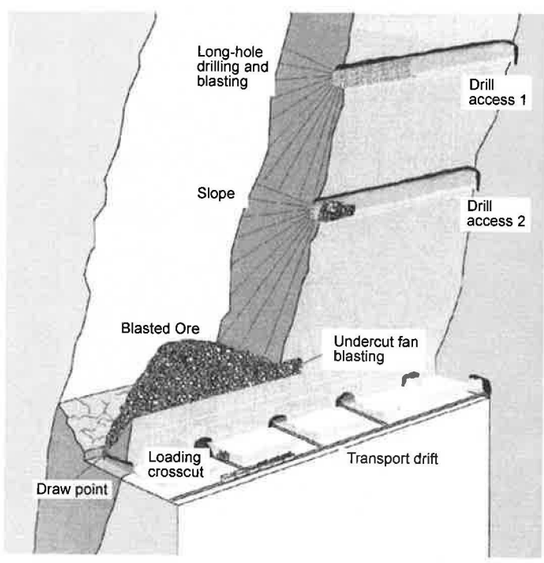
CLAIMS MAP

File Name		Date:
POO-03-CLAIMS	FIGURE 3	06/11/09

Shrinkage Stoping with Cross-cut Loading

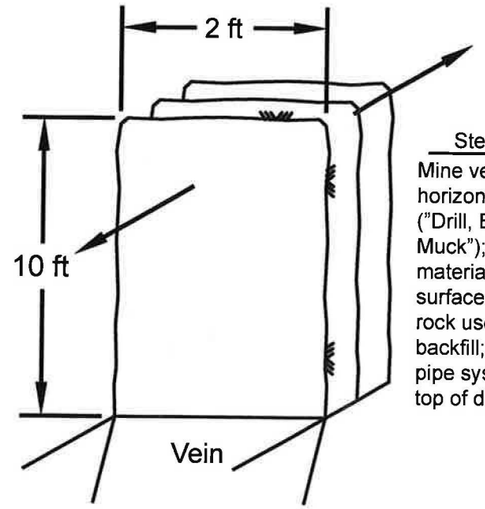


Long-Hole Stoping



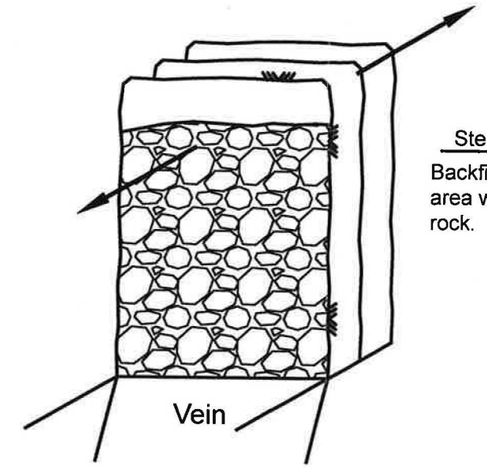
Images from "Underground Mining Methods - Engineering Fundamentals and International Case Studies", Edited by William A. Hustrulid and Richard L. Bullock 2001.

Typical Cut & Fill Mining and Backfill Sequence



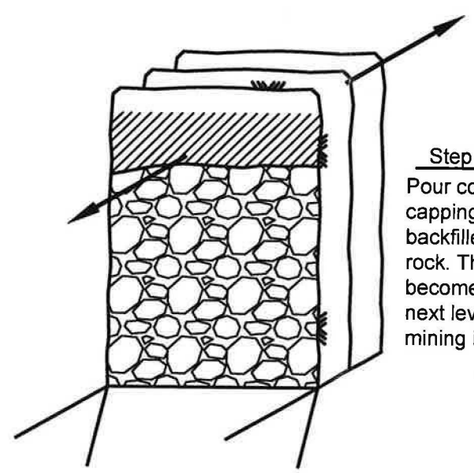
Step 1

Mine vein out in horizontal drift ("Drill, Blast & Muck"); ore material taken to surface. Waste rock used for backfill; install pipe system along top of drift.



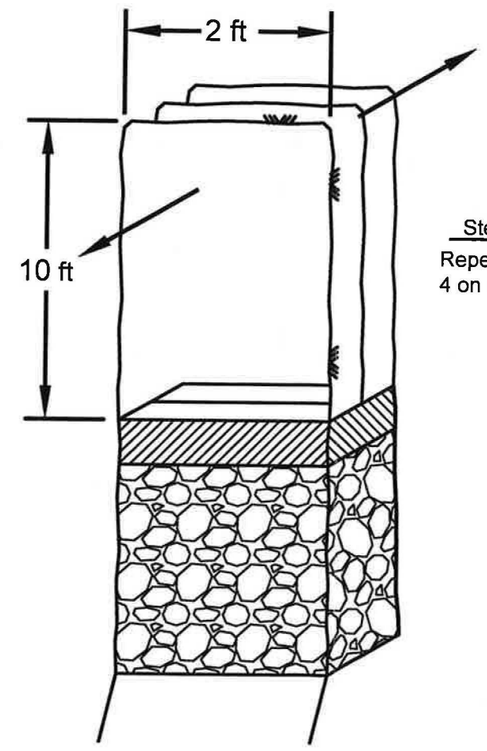
Step 2

Backfill mined-out area with waste rock.



Step 3

Pour concrete capping on top of backfilled waste rock. This capping becomes floor for next level of mining in vein.



Step 4

Repeat steps 1, 2 3, & 4 on next (upper) lift.

Hollister Plan of Operations Amendment

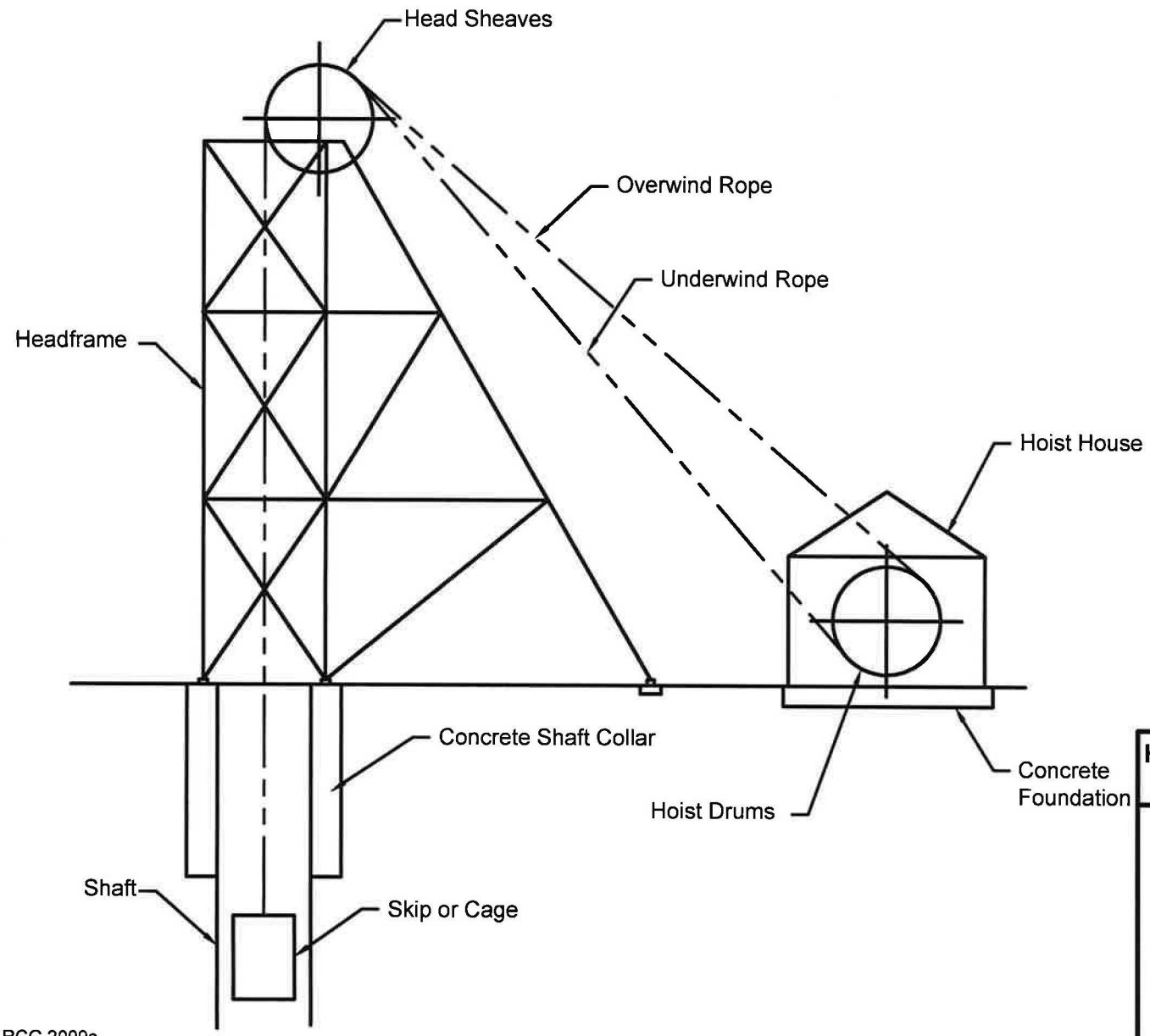
Figure 4

Typical Narrow Vein Underground Mining Techniques

Note: All dimensions shown are approximate and not to scale.

09/26/2012

Typical Shaft Hoisting System



Source: RCG 2009a.

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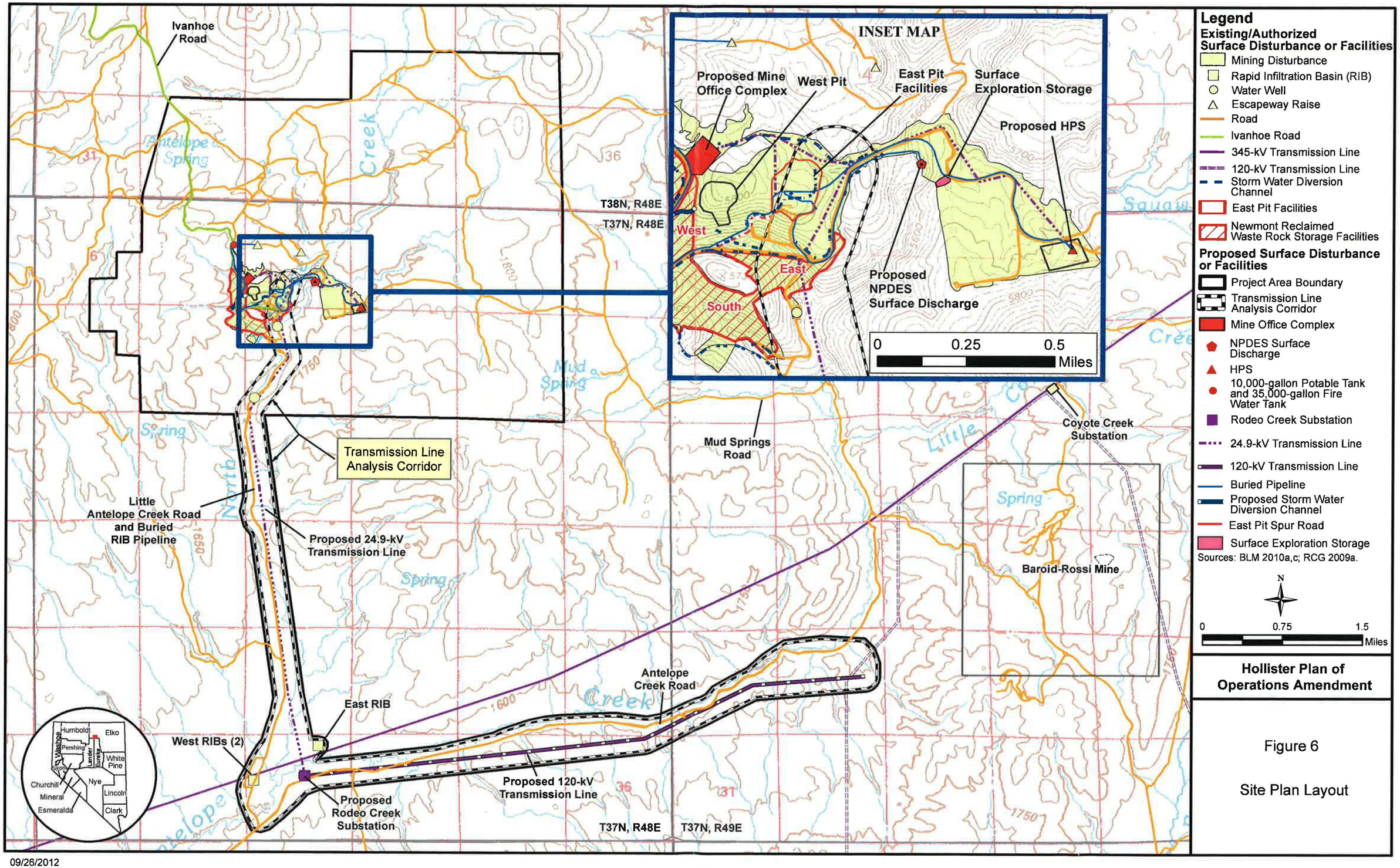
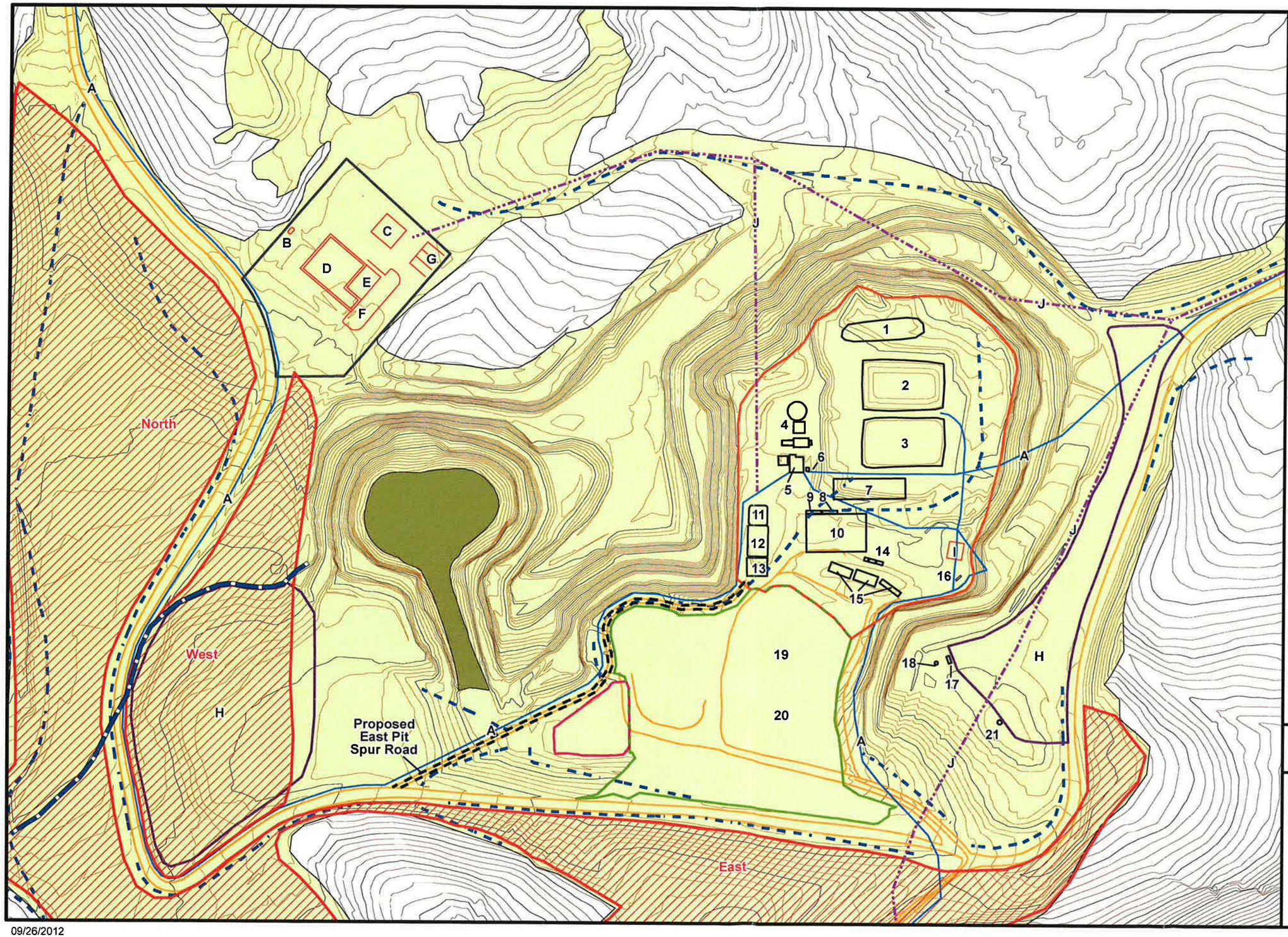
Figure 5

Typical Hoist House and Hoist Headframe

09/26/2012


INSET MAP
Proposed Mine Office Complex
West Pit
East Pit Facilities
Surface Exploration Storage
Proposed HPS
West
East
South
Proposed NPDES Surface Discharge
0 0.25 0.5 Miles
Ivanhoe Road
Antelope Spring
Creek
T38N, R48E
T37N, R48E
Mud Spring
Mud Springs Road
Coyote Creek Substation
Little
Spring
Transmission Line Analysis Corridor
Little Antelope Creek Road and Buried RIB Pipeline
Proposed 24.9-kV Transmission Line
North
Baroid-Rossi Mine
Antelope Creek Road
East RIB
West RIBs (2)
Proposed 120-kV Transmission Line
Proposed Rodeo Creek Substation
T37N, R48E
T37N, R49E
Humboldt
Elko
Pershing
White Pine
Churchill
Nye
Lincoln
Mineral
Esmeralda
Clark
Legend
Existing/Authorized Surface Disturbance or Facilities
Mining Disturbance
Rapid Infiltration Basin (RIB)
Water Well
Escapeway Raise
Road
Ivanhoe Road
345-kV Transmission Line
120-kV Transmission Line
Storm Water Diversion Channel
East Pit Facilities
Newmont Reclaimed Waste Rock Storage Facilities
Proposed Surface Disturbance or Facilities
Project Area Boundary
Transmission Line Analysis Corridor
Mine Office Complex
NPDES Surface Discharge
HPS
10,000-gallon Potable Tank and 35,000-gallon Fire Water Tank
Rodeo Creek Substation
24.9-kV Transmission Line
120-kV Transmission Line
Buried Pipeline
Proposed Storm Water Diversion Channel
East Pit Spur Road
Surface Exploration Storage
Sources: BLM 2010a,c; RCG 2009a.
N
0 0.75 1.5 Miles
Hollister Plan of Operations Amendment
Figure 6
Site Plan Layout

09/26/2012



Legend

Existing/Authorized Surface Disturbance or Facilities

- Mining Disturbance
- Road
- East Pit Facilities
- Storm Water Basin Pond
- Waste Rock Storage Facility
- Storm Water Diversion Channel
- Newmont Reclaimed Waste Rock Storage Facility

1) Growth Media Stockpile
2) North Surge Pond
3) South Recycle Pond
4) De-silting System
5) Oil Contaminated Soil Pad
6) Wash Bay/Steam Cleaner
7) Reverse Osmosis Water Treatment Plant
8) Connex Storage
9) Lube Oil Storage
10) Maintenance Shop
11) Fuel Storage
12) Generators (2)
13) Compressor Building
14) Septic Holding Tanks
15) Office Trailers
16) Portal
17) Potable Water Treatment Plant
18) Potable Water Tank (5,000-gal) (4)
19) RCG Existing Waste Rock Storage Facility
20) Ore Stockpile and Storage
21) Utility Water Tank (10,000-gal)

Proposed Surface Disturbance or Facilities

- West Pit Waste Rock Storage Facility
- Laydown Area
- Buried Pipelines
- Proposed Storm Water Diversion Channel
- 24.9-kV Transmission Line
- East Pit Spur Road

A) Buried Water Pipelines
B) Propane Tank
C) Mine Rescue Building
D) Mine Office Complex
E) Fenced Outside Storage Area
F) Outside Storage Area
G) Septic Tank and Leach Field
H) Laydown Area
I) Batch Plant
J) Powerline

Note: Contour interval 5 feet.
Source: MWH Americas Inc. 2007; RCG 2009a.

N

0 200 400 Feet

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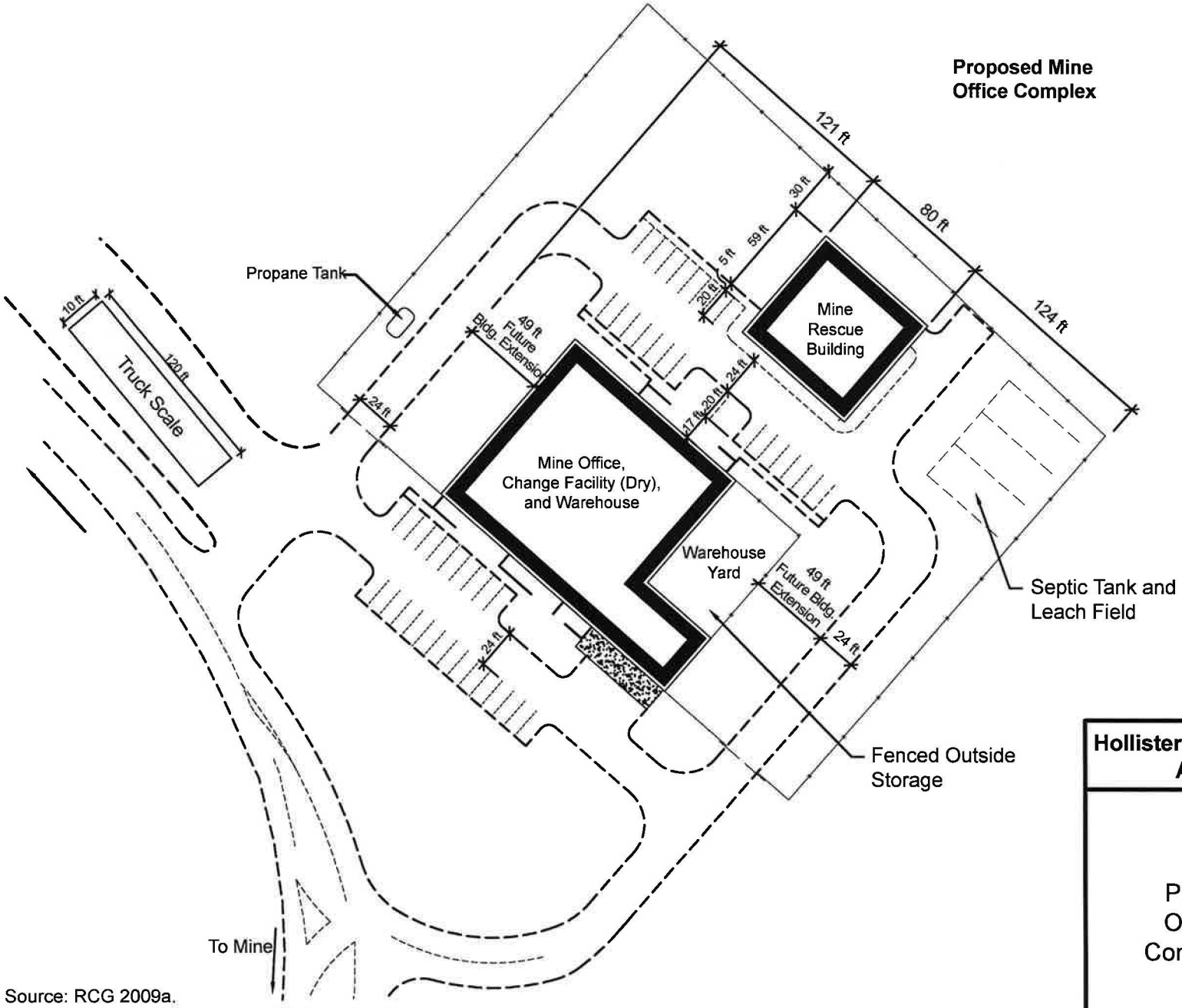
Figure 7

Proposed Facilities

09/26/2012



Source: RCG 2009a.

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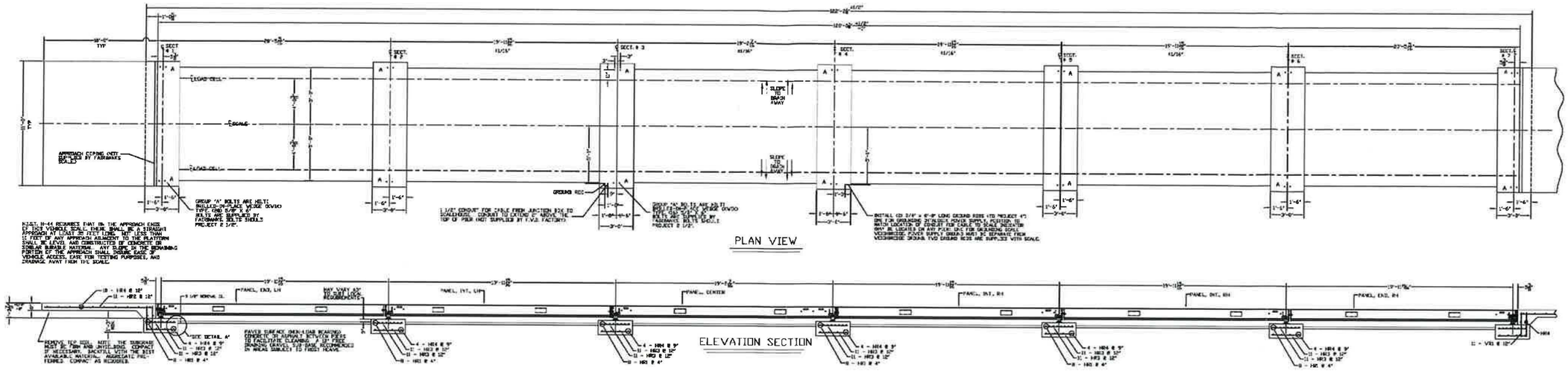
Figure 8

Proposed Mine Office Complex Conceptual Design

09/26/2012



CONSTRUCTION DRAWING FROM MANUFACTURER

PHOTOS OF TYPICAL STEEL DECK TRUCK SCALES

GREAT BASIN GOLD LIMITED

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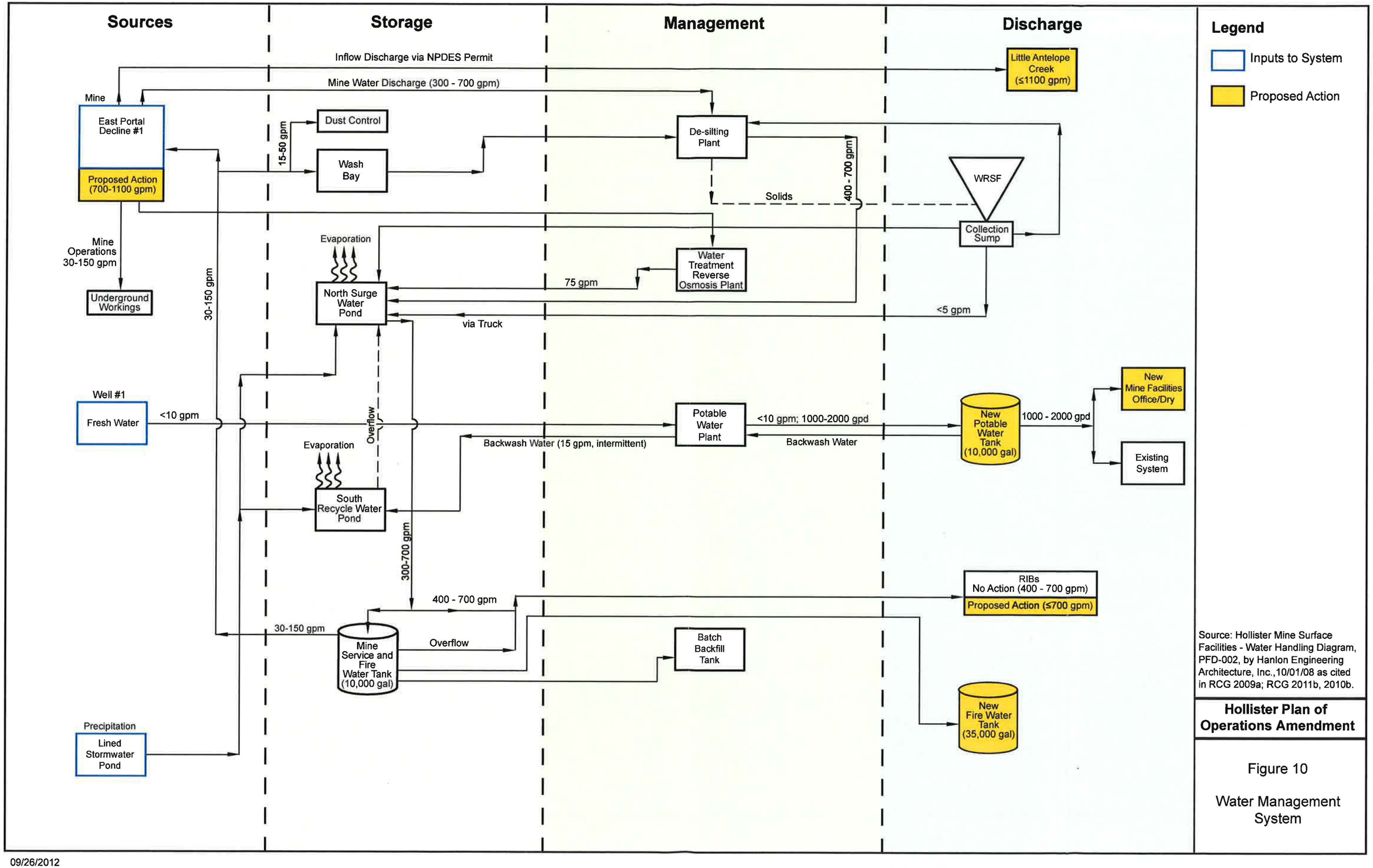
HOLLISTER MINE - FULL PRODUCTION PLAN OF OPERATIONS

TRUCK SCALE SCHEMATIC

File Name		Date
POO-11-TRUCK SCALE	FIGURE 9	06/11/09



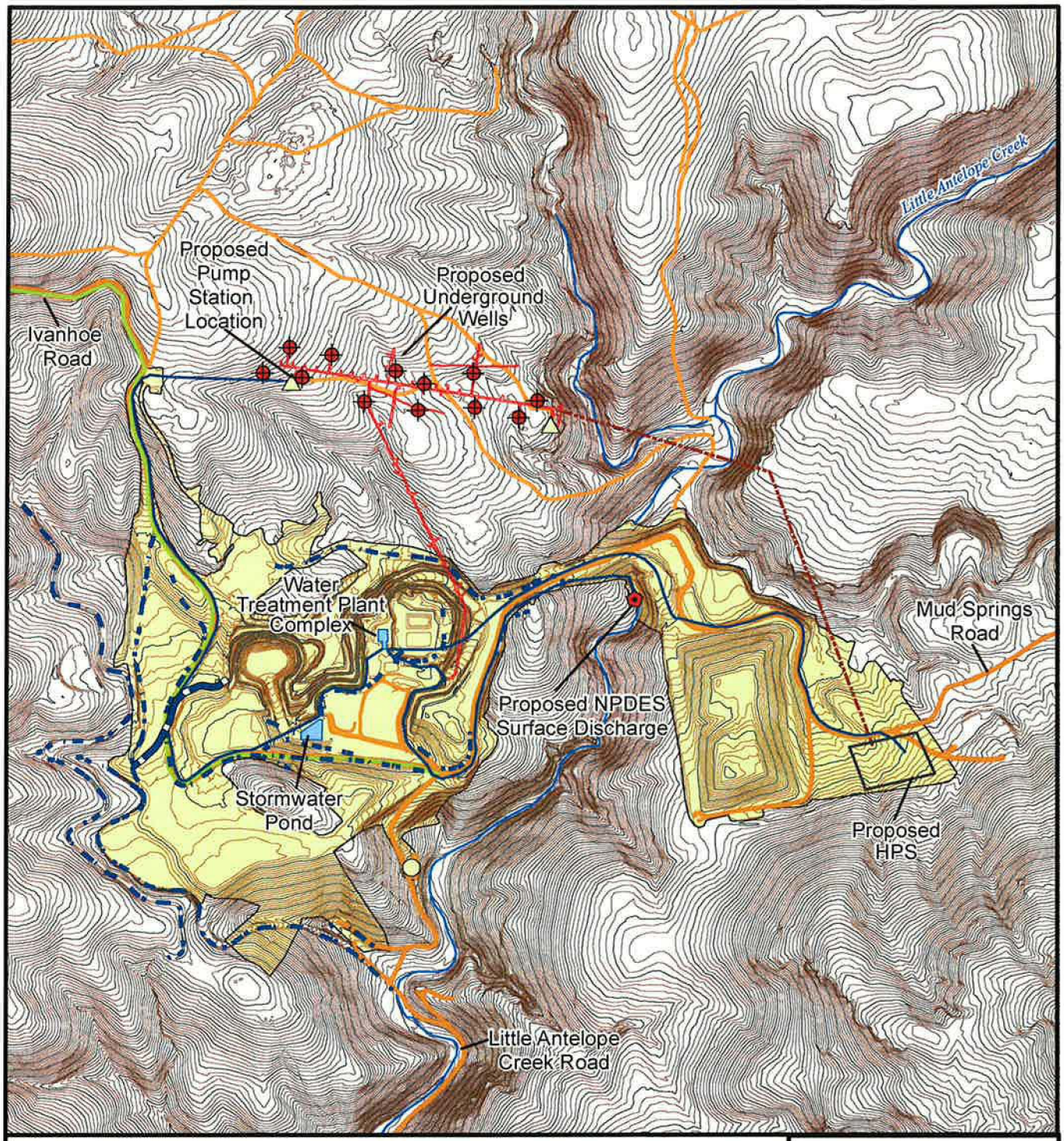
Source: Hollister Mine Surface Facilities - Water Handling Diagram, PFD-002, by Hanlon Engineering Architecture, Inc.,10/01/08 as cited in RCG 2009a; RCG 2011b, 2010b.

Hollister Plan of Operations Amendment

Figure 10

Water Management System

09/26/2012



Legend

Existing/Authorized Disturbance or Facilities

- Mining Disturbance
- Water Well
- Escapeway Raise
- Surface Water Diversion Channel
- Road
- Ivanhoe Road
- Creek

Note: Contour interval 5 feet.
Source: RCG 2009a.

Proposed Disturbance or Facilities

- Underground Well Conceptual Locations
- Proposed NPDES Surface Discharge
- Buried Pipeline
- Existing Underground Exploration Workings
- Proposed Storm Water Diversion Channel
- Proposed Conceptual Underground Workings

N

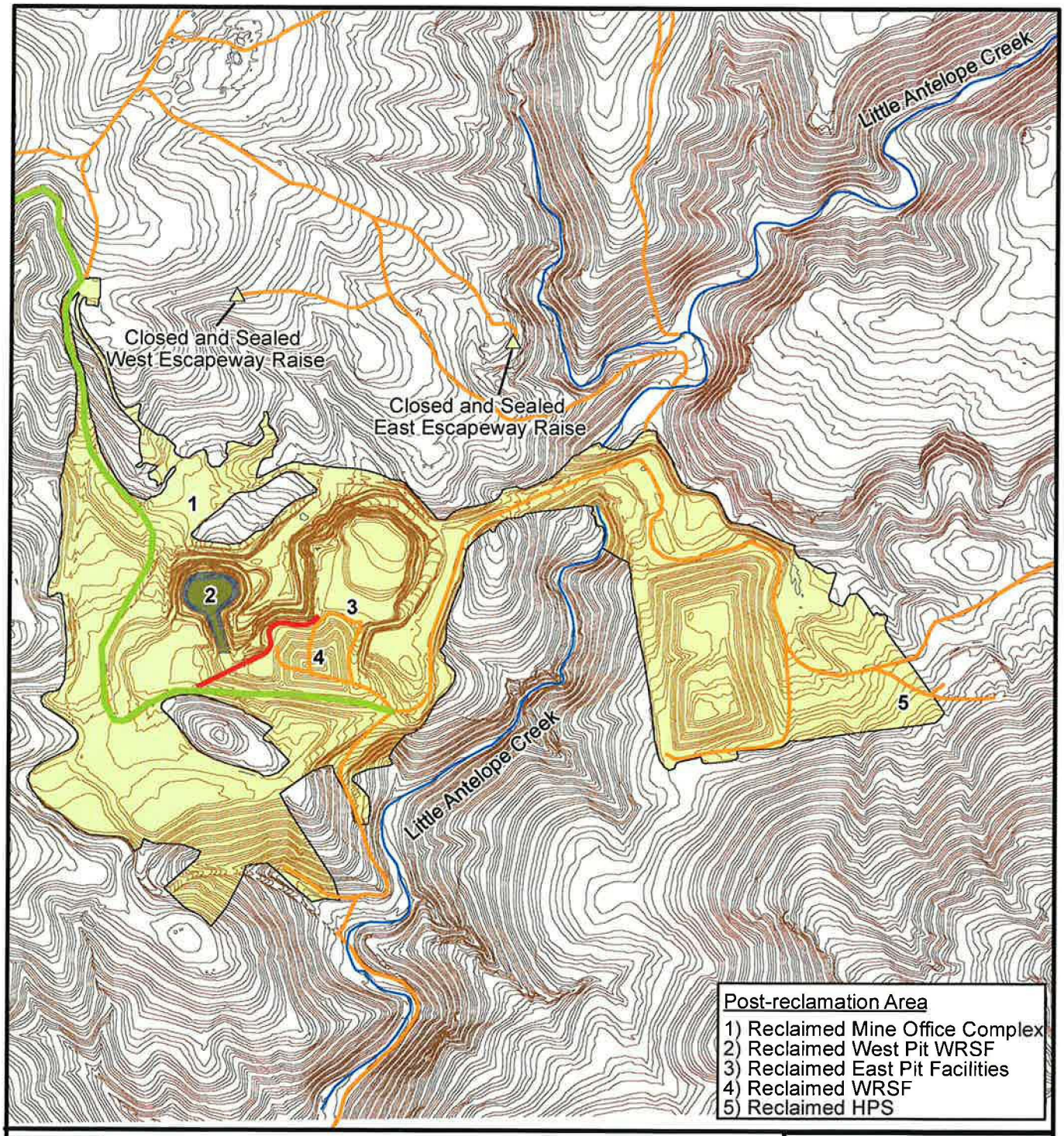
0 0.1 0.2 Miles

Hollister Plan of Operations Amendment

Figure 11

Underground Mine Dewatering Schematic

09/26/2012



Legend

- Existing/Authorized Mining Surface Disturbance
- Post-reclamation Contours
- Unreclaimed Road
- Reclaimed Two-track Road
- Ivanhoe Road
- Surface Water
- Reclaimed West Pit Waste Rock Storage Facility

Contour interval: 5 feet.
Source: RCG 2009a.

N

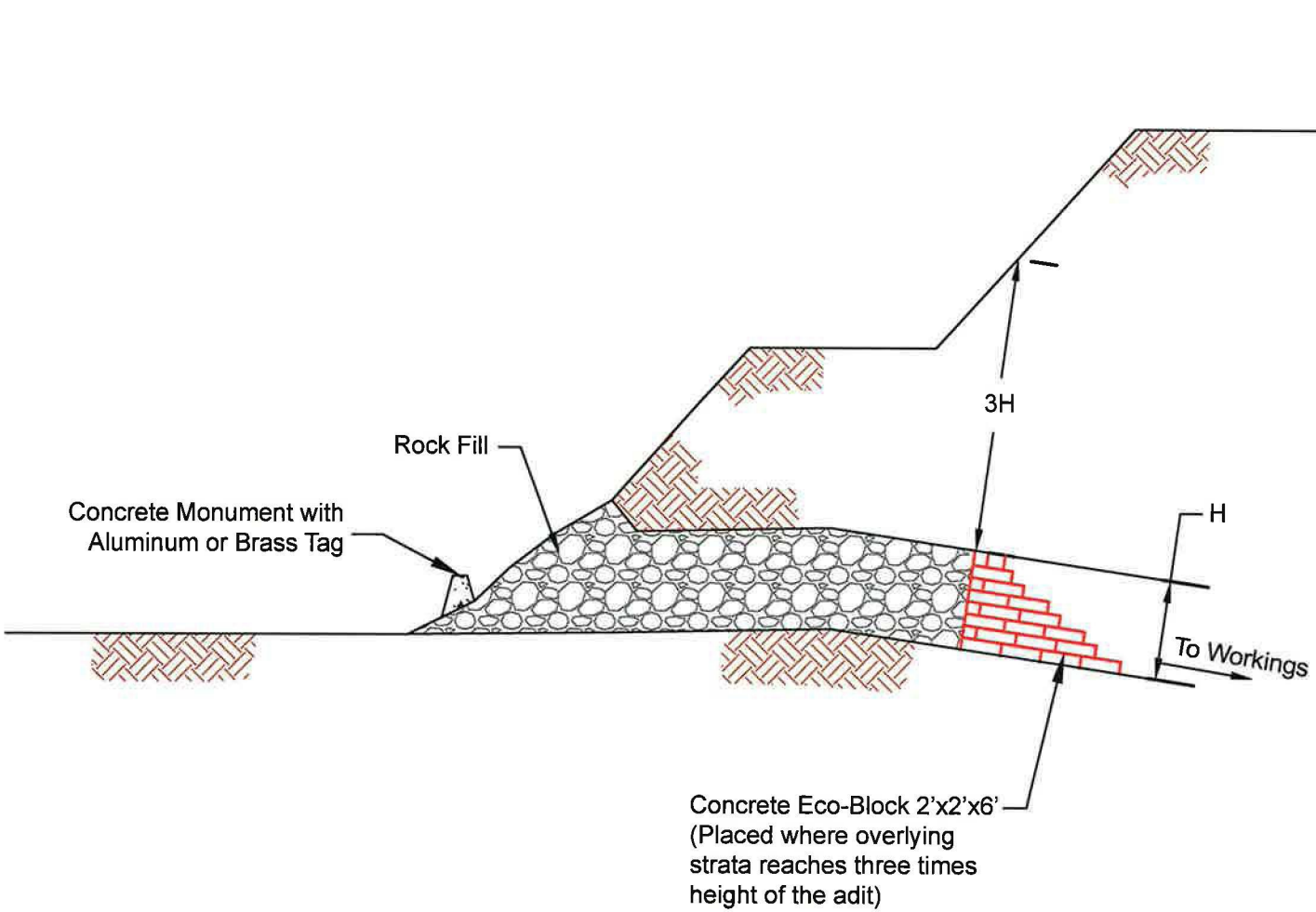
0 500 1,000 Feet

Hollister Plan of Operations Amendment

Figure 12

Post-Mining Topography

09/26/2012



Hollister Plan of Operations Amendment

Figure 13

Portal Closure

Source: RCG 2009a.

09/26/2012

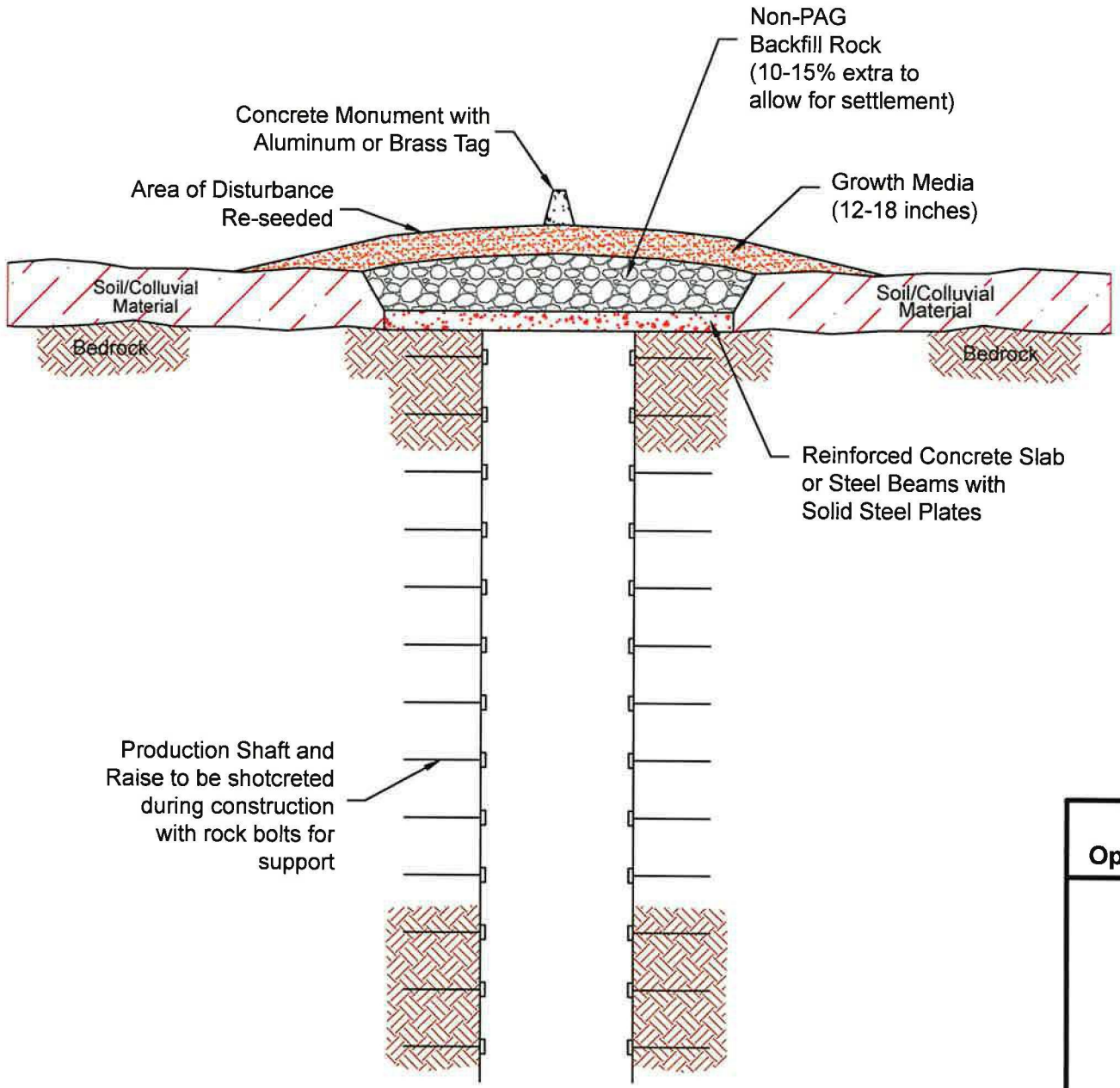


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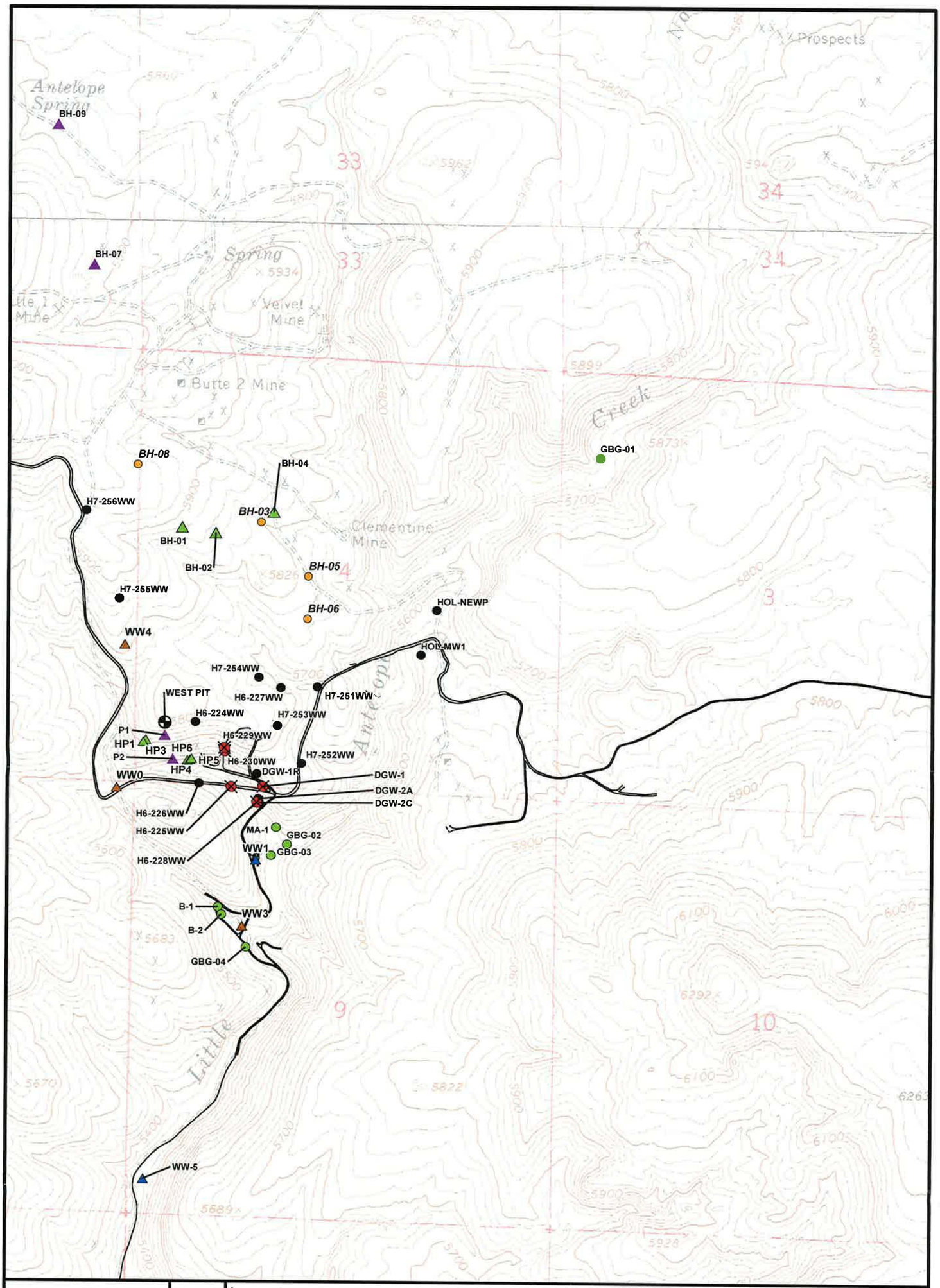
Figure 14

Escape Raise and Shaft Closure

Source: RCG 2009a.

09/26/2012



Legend

Roads

Boreholes (Brown and Caldwell 2003)

- 2002 Piezometer and Groundwater Level Elevation
- 2002 Hydrogeologic Test Borehole and Groundwater Level Elevation

Wells (Brown and Caldwell 2003)

- West Pit Monitoring Well (HP)
- Water Production Well (WW)
- Abandoned Water Production Well (WW)

Monitoring Sites (Montgomery and Associates 2010)

- Abandoned Monitor Well
- Monitor Well
- Piezometer, Vinini Aquifer
- Piezometer, Tertiary Volcanic Aquifer
- Stream Sample
- West Pit Staff Gauge

Source: Brown and Caldwell 2010a, 2003; Montgomery and Associates 2010a.

Hollister Plan of Operations Amendment

Figure 15

Groundwater and Suface Water Monitoring Sites

09/26/2012

HOLLISTER RECLAMATION SCHEDULE

Year	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040
Project Component																	
Existing Waste Rock Storage Facility																	
East Pit Facilities																	
West Pit Waste Rock Storage Facility																	
East Portal and Underground Facilities																	
Hatter Production Shaft, East and West Raises																	
Rapid Infiltration Basins																	
NPDES Discharge Point																	
Powerline and Substation																	
Dewatering wells, Water Treatment Facilities and Tanks																	
Non-BLM Road																	
Mine Office Complex																	

Color Key	
Closure/Demolition of Facilities	
Waste Rock Backfill	
Growth Media Placement	
Recontouring	
Seeding	
Monitoring	

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Figure 16

Hollister Reclamation Schedule