### Log of Boring No. BRC-SB-20-A

### **BMI Site - Hydrogeologic Characterization**



Drilling Method: Rotary Sonic
Drilling Equipment: Rotary Sonic

**Drilling Contractor:** Prosonic Corporation

Driller: Don Youngblood

Sample Interval Varies

Borehole Total Depth: 78.5 ft bgs
Borehole Diameter: 8.5 in

**Boring Location:** Location 20 (Well ID: AA-20)

Depth to Water (ft. bgs): 16.5 ft bgs

**Monitoring Well Construction** 

Type of Surface Seal:

Bentonite-Grout 4" Sch 80 PVC

Screen Slot Size:

0.010 in

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Basic Remediation

Logged By: Adam Norris

Date Started: 7/10/04

Date Completed: 7/11/04

Sample Type: Split-Spoon (2"ID)

Blank Casing Type/Size: 4
Screen Type/Size: 4
Transition Sand Type: |

4" Sch 80 PVC N/A Top of Screen (ft. bgs):
Bottom of Screen (ft. bgs):
Type of Sand Pack:

-10 ft bgs -30 ft bgs #2 x 12

Depth
Sample Type
Sample Interval
Sample Recovery
(feet)

for Analysis PID

Lithology

**Soil Description** 

Well Construction

Locking

Cement

Bentonite Grout

monument well

concrete apror

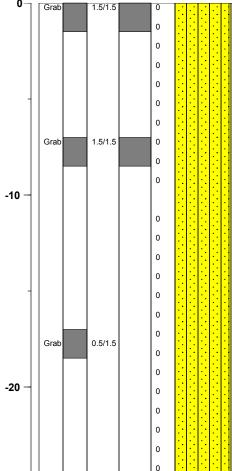
Bentonite seal

4" Blank PVC

#10 x 20 Sand Pack

4" 0.010 Slot PVC screen

Riser Pipe



SM: Silty sand with gravel, pale brown (10YR 6/3), dry, subangular to subrounded sand, nonplastic silt, subangular to subrounded fine to coarse volancic gravel (up to 3" long). Approximately 20% gravel, 10% coarse sand, 15% medium sand, 35% fine sand, 20% silt and

Collected sample BRC-SB-20-A-0

Silty sand with gravel, yellowish brown (10YR 5/4), dry, subangular to subrounded sand, nonplastic silt, subangular to subrounded fine to coarse volanic gravel (up to 3" long). Approximately 25% gravel, 10% coarse sand, 10% medium sand, 35% fine sand, 20% silt and no clay.

Collected sample BRC-SB-20-A-7

Silty sand with gravel, brown (7.5YR 5/4), dry to moist, subangular to subrounded sand, nonplastic silt, subangular to subrounded fine to coarse volanic gravel (up to 3" long), trace local cementation. Approximately 25% gravel, 10% coarse sand, 10% medium sand, 350% fine sand, 20% silt and no clay.

Silty sand with gravel, brown (7.5YR 5/4), moist, subangular to subrounded sand, nonplastic silt, subangular to subrounded fine to coarse volanic gravel (up to 2" long), trace local weak to moderate cementation. Approximately 25% gravel, 10% coarse sand, 10% medium sand, 35% fine sand, 20% silt and no clay.

Silty sand with gravel, brown (7.5YR 5/3), moist, subangular to subrounded sand, nonplastic to very low plasticity silt, subangular to subrounded fine to coarse volanic gravel ( up to 2" long), trace local weak cementation. Approximately 20% gravel, 10% coarse sand, 15% medium sand, 35% fine sand, 20% silt and no clay

Becomes wet @ approximately 16.5' bgs.

Collected sample BRC-SB-20-A-17.5

Silty sand with gravel, brown (7.5YR 5/4), wet, subangular to subrounded sand, nonplastic silt, subangular to subrounded fine to coarse volanic gravel ( up to 2" long). Approximately 20% gravel, 10% coarse sand, 20% medium sand, 30% fine sand, 20% silt and no clay

Traces local volanic cobbles (up to 5" long).

Silty sand with gravel, brown (7.5YR 4/3), subangular to subrounded sand, nonplastic silt, subangular to subrounded fine to coarse volanic gravel (up to 3" long), trace local volcanic cobbles (up to 4" long). Approximately 20% gravel, 10% coarse sand, 20% medium sand, 30% fine sand, 20% silt and no clay

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### **BMI Site - Hydrogeologic Characterization**



#### Henderson, Nevada

## Log of Boring No. BRC-SB-20-A

Depth Elevation (MSLD)	Sample Type	Sample Interval	Sample Recovery (feet)	Sample Retained for Analysis	PID	Lithology	Soil Description	Well Construction
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Silty sand with gravel, brown (7.5YR 4/3), wet, subangular to subrounded sand, nonplastic silt, salty start with graver, brown (7.31 & 4/3), wer, startington is subtroutined salty, intriplastic's submangular to subrounded fine to coarse volanic gravel (up to 2" long). Approximately 20% gravel, 10% coarse sand, 25% medium sand, 25% fine sand, 20% silt and no clay #10 x 20 Sand Pack 0 ML: Sandy silt, pale brown (10YR 6/3), moist to wet, nonplastic to low plasticity fines, subangular to subrounded sand. Approximately 30% fine sand, 70% silt and trace % clay 0 0 -30 Silt with clay and sand, brown (7.5YR 5/3), moist, very stiff, nonplastic to low plasticity fines, subangular to subrounded sand. Approximately 10% fine sand, 80% silt and 10% clay.. 0 Threaded PVC Well Base Cap 0 0 0 Clayey silt, brown (7.5YR 5/4), moist, hard, nonplastic to low plasticity fines. Approximately n 80silt and 20% clay. Sandy silt, light yellowish brown (10YR 6/4), moist, nonplastic silt, subangular to subrounded 0 sand. Approximately 40% fine sand, 60% silt and no clay... 0 0.5/0.5 Grab Collected sample BRC-SB-20-A-36.5 0 Sandy silt with clay, light yellowish brown (10YR 6/4), wet, nonplastic to low plasticity fines, subangular to subrounded sand. Approximately 35% fine sand, 55% silt and 10% clay... n 0 Clayey silt, light brown (7.5YR 6/4), moist, very stiff, nonplastic to low plasticity fines. Approximately 85% silt and 15% clay. -40 0 0 0 Clayey silt, light brown (7.5YR 6/4), moist, very stiff, nonplastic to low plasticity fines. 0 Approximately 5% fine sand, 85% silt and 15% clay. 0 n 0 Clayey silt, light brown (7.5YR 6/4), moist, very stiff, nonplastic to low plasticity fines. Cement Approximately 5% fine sand, 85% silt and 15% clay. Backfill 1.5/1.5 0 Grab Collected sample BRC-SB-20-A-47 0 Silt with sand, brown (7.5YR 5/3), moist, very stiff, nonplastic to low plasticity fines, subangular to subrounded sand, Approximately 10% fine sand, 80% silt and 10% clay. 0 -50 0 Collected sample BRC-SB-20-A-56.5 0 SM: Silty sand, yellowish brown (10YR 5/4), wet, subangular to subrounded sand, nonplastic silt. Approximately trace % medium sand, 65% fine sand, 35% silt and no clay. 0 ML: Clayey sandy silt, yellowish brown (10YR 5/4), wet, nonplastic to low plasticity fines, locally subangular to subrounded sand, Approximately 30 % fine sand, 55% silt and 15% clay. 0 0 SM: Silty sand, yellowish brown (10YR 5/6), wet, nonplastic to low plasticity fines, subangular to subrounded sand, nonplastic silt. Approximately 10% fine sand, 80% silt and 10% clay. 0 ML: Silt with clay, yellowish brown (10YR 5/4), moist, nonplastic to low plasticity fines, 0 subangular to subrounded sand. Approximately 10% fine sand, 80% silt and 10% clay. 0.5/0.5 Grab SM: Silty sand, brown (7.5YR 5/4), wet, subangular to subrounded sand, nonplastic silt Approximately 65% fine sand, 35% silt and no clay. 0

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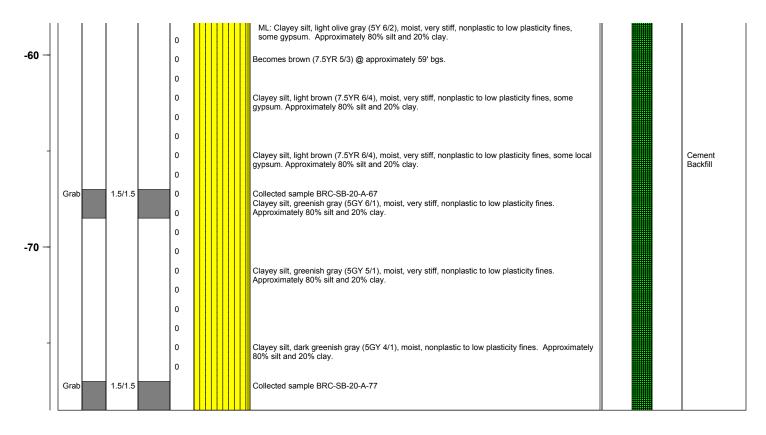
## **BMI Site - Hydrogeologic Characterization**



### Henderson, Nevada

# Log of Boring No. BRC-SB-20-A

Depth Elevation (MSLD)	Sample Type	Sample Interval	Sample Recovery (feet)	Sample Retained for Analysis	PID	Lithology	Soil Description	Well Construction
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