Log of Boring No. BRC-SB-13-A

BMI Site - Hydrogeologic Characterization



Drilling Method: Rotary Sonic
Drilling Equipment: Rotary Sonic

Drilling Contractor: Prosonic Corporation

Driller: Gerardo Chavez

Borehole Total Depth: 98.5 ft bgs
Borehole Diameter: 8.5 in

Boring Location: Location 13 (Well ID: AA-13)

Depth to Water (ft. bgs): NA

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Sample Type: Continuous Core Sample Interval Continuous

Logged By: Jennifer Wiley Date Started: 6/10/04 Date Completed: 6/10/04

Monitoring Well Construction

Surface Seal: Bentonite Grout Screen Slot Si

Type of Surface Seal:
Blank Casing Type/Size:
Screen Type/Size:

4" Sch 80 PVC 4" Sch 80 PVC Screen Slot Size: Top of Screen (ft. bgs): Bottom of Screen (ft. bgs): 0.010 in 38 ftbgs 58 ft bgs

Basic Remediation

Transition Sand Type:

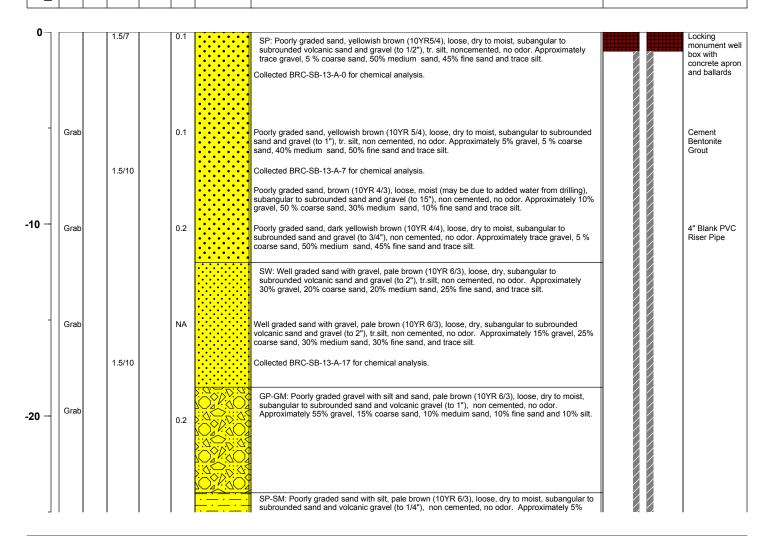
N/A

Type of Sand Pack:

#2 x 12

Soil Description Well Construction

Log of Boring:



Project No. 3850360



Page 1 of 4

BRC-SB-13-A

BMI Site - Hydrogeologic Characterization



Henderson, Nevada

Log of Boring No. BRC-SB-13-A

Sample Type Sample Interv Sample Interv (feet) Sample Reco (feet) PID Lithology Lithology
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gravel, 10% coarse sand, 30% meduim sand, 45% fine sand and 10% silt. 1.5/20 Collected BRC-SB-13-A-27 for chemical analysis -30 GP-GM: Poorly graded gravel with silt and sand, pale brown (10YR 6/3), loose, dry to moist, Grah 0.3 subangular to subrounded sand and volcanic gravel (to 1.5"), non cemented, no odor. Approximately 50% gravel, 10% coarse sand, 20% meduim sand, 10% fine sand and 10% silt. SW: Well graded sand, brown (10YR 4/3), loose, moist, subangular to subrounded volcanic sand and gravel (to 1"), non cemented, no odor, tr.silt. Approximately 5% gravel, 35% coarse sand, 30% meduim sand, 30% fine sand and trace silt. Bentonite seal SP: Poorly graded sand, brown (10YR 4/3), loose, moist, subangular to subrounded volcanic sand and gravel (to 1"), non cemented, no odor, tr. silt. Approximately 10% gravel, 10% coarse sand, 40% meduim sand, 40% fine sand and trace silt. Grab 0.1 4" 0.010 Slot PVC screen -40 0.1 Poorly graded sand with gravel, brown (10YR 4/3), loose, moist, subangular to subrounded Grab volcanic sand and gravel (to 3/4"), tr. silt, non cemented, no odor, tr. silt. Approximately 30% gravel, 10% coarse sand, 25% meduim sand, 30% fine sand and 5% silt. #10 x 20 Sand Pack ∵ ⊠ . \boxtimes GP: Poorly graded gravel with silt and sand, dark yellowish brown (10YR 4/4), loose, wet, subangular to subrounded sand and volcanic gravel (to 3/4"), tr.silt, non cemented, no odor. Approximately 60% gravel, 20% coarse sand, 5% meduim sand, 10% fine sand and 5% silt. 0.1 Grah 0.25/8.5 Collected BRC-SB-13-A-47 for NEL SP: Poorly graded sand with gravel, yellowish (10YR 5/4), loose, wet, subangular to subrounded volcanic sand and gravel (to 1/21"), tr. silt, non cemented, no odor, tr. silt Approximately 30% gravel, 30% coarse sand, 25% meduim sand, 10% fine sand and 5% silt. -50 All sand at 50' bgs is reworked silt, light yellowish brown (2.5YR 6/3). Approximately 50% medium sand, 45% fine sand and 5% silt. Grab 0.2 ML: Very sandy silt, very moist, weak induration in areas. Approximately 15% meduim sand, 15% fine sand and 70% silt. Very sandy silt, yellowish brown (10YR 5/4), stiff, very moist, angular sand (comprised of silt chips), tr. clay, non to weak induration, no odor, non plastic. Approximately 30% meduim sand, 10% fine sand, 60% silt and trace clay. Collected BRC-SB-13-A-55.5 for NEL. Very sandy silt, yellowish brown (10YR 5/4), soft, wet, angular sand (comprised of silt chips), tr. NA Grab 0.5/11.5 clay. Approximately 20% meduim sand, 20% fine sand, 60% silt and trace clay. SM: Non cemented, no odor, non to moderate plasticity. Approximately 30% medium sand, Threaded PVC 30% fine sand and 40% silt. Well Base Cap

Project No. 3850360

Log of Boring: BRC-SB-13-A



BMI Site - Hydrogeologic Characterization



Henderson, Nevada

Log of Boring No. BRC-SB-13-A

Sample Type Sample Interval Sample Recovery (feet) Sample Retained for Analysis PID Lithology Lithology

ML: Silty sand, light gray (5Y 7/2), moist to very moist, angular sand (comprised of silt chips), weak induration, no odor. Approximately 15% meduim sand, 15% fine sand, 70% silt and trace Sandy silt, light gray (5Y 7/2), angular sand (comprised of silt chips), weak induration, no odor, low plasticity, tr.clay, moist to very moist. Approximately 55% meduim sand, 15% fine sand, 60% silt and trace clay. At 60' bgs color change to pale olive (5Y 6/2), moist to very moist. Grah 0.1 Grab 0.1 Silt, light gray (5Y 7/2), moist to very moist, friable, weakly indurated, silt easily crumbles into smaller silt chips, non plastic. Approximately 100% silt. 1.5/10 Collected BRC-SB-13-A-67 for chemical analysis. Silt, pale brown (10YR 6/3), moist to very moist, very stiff, angular sand (comprised of silt chips), non cemented, no odor, low plasticity. Approximately 10% meduim sand, 10% fine sand and 80% silt. -70 Sandy silt, yellowish brown (10YR 5/4), moist, very stiff, angular sand (comprised of silt chips), Grab 0.1 tr. clay, non cemented, no odor and low plasticity. Approximately 15% meduim sand, 15% fine sand and 70% silt. Cement Backfill 0.1 Very sandy silt, vellowish brown (10YR 5/4), moist to very moist, stiff, angular sand (comprised Grab of silt chips), tr. clay, non cemented, no odor and non plastic. Approximately 30% meduim sand, 15% fine sand and 55% silt and trace clay. 1.5/12 Collected BRC-SB-13-A-77 for chemical analysis. Color change to light gray (5Y 7/2), soft, moist to very moist in spots, non cemented, no odor, low plasticity ant tr. clay. Approximately 20% meduim sand, 15% fine sand and 65% silt and trace clay. -80 Grab 0.1 Color change to yellowish brown (10YR 5/4), moist. Approximately 10% meduim sand, 10% fine sand and 80% silt and trace clay. Grab 0.1 Silt with sand, yelloiwsh brown (10YR 5/4), very stiff, moist, angular sand (silt chips), non cemented to weak induration in areas, no odor, non to weak plasticity, tr. clay. Approximately 10% meduim sand, 10% fine sand and 80% silt and trace clay. 0.5/8 SM: Silty sand, yellowish brown (10YR 5/4), wet, non cemented, no odor. Approximately 70% -90 fine sand and 30% silt. Collected BRC-SB-13-A-89 for NEL.. Grab 0.1 Color change to light gray (5Y 7/2), increased silt, wet. Approximately 65% fine sand and 45%

Project No. 3850360

Log of Boring: BRC-SB-13-A

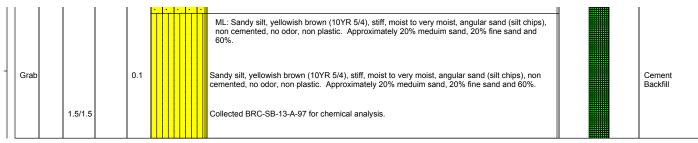


BMI Site - Hydrogeologic Characterization

Henderson, Nevada

Log of Boring No. BRC-SB-13-A

Basic Remediation



Project No. 3850360 Log of Boring: BRC-SB-13-A



Page 4 of 4