



DATE: April 2006

PROJECT NUMBER: 129684

**BROWN AND CALDWELL**  
Carson City, Nevada

Atlantic Richfield Company

**Figure 2-7**

**Well B/W-3D Construction Details**

# BROWN AND CALDWELL

# BORING LOG

Project Name: Yerington Groundwater Investigation

Well Number: B/W-3

Soil Boring

Monitoring Well

Project Number: 121243.021

Sheet 1 of 12

Boring Location: <b>North of mine tailings, along Sunset Hills Dr.</b>		Elevation: <b>4351.2 feet amsl</b>	East: <b>322334.8</b> North: <b>1561218.8</b>
Drilling Contractor: <b>WDC</b>	Driller: <b>B. Zamow</b>	Date Started: <b>8/27/05</b>	Date Finished: <b>8/31/05</b>
Drilling Equipment: <b>Gus Pech GP24-400RS, Diedrich Sonic Head</b>		Total Depth: (feet) <b>150.0</b>	Water Depth: (feet) <b>22' / 21.72'</b>
Sampling Method: <b>Core Barrel</b>	Borehole Diameter: <b>6"</b>	Well Diameter and Material: <b>2-inch PVC</b>	
Drilling Method: <b>Sonic, utilized 6" casing and a 4.5" core barrel</b>		Screened Interval and Well Depth: <b>129.3-149.3 ft., bottom at 149.5 ft.</b>	
Well Seal: <b>Bentontite and Cement</b>		Slot Size: <b>0.020"</b>	Filter Material: <b>#10-20 Silica Sand</b>
Logged By: <b>C. Gardner</b>		Development Method: <b>Swabbed, bailed, pumped</b>	

Depth (feet)	Elevation (feet)	USCS Group Symbol	Description	Sample No.	Graphic Log			Remarks
					Sample	Lithology	Well	
4350		SM	<b>SILTY SAND</b> (0-1.5 feet) Dry, loose, no odor. Primarily medium to fine sand with trace coarse sand to ~4 mm and ~25% silt and clay. The sand is subangular to subrounded. The fines have low plasticity and toughness, are grayish brown, and do not react to HCl.				Descriptions of drilled cuttings based on ASTM Method D-2488 (the visual-manual procedure), grain-size determinations and nomenclature based on the Unified Soil Classification System. Munsell colors described wet.	
		CL	<b>SANDY LEAN CLAY</b> (1.5-2.5 feet) Dry, hard, no odor. Primarily silt and clay with ~30% medium to fine sand to 1.5 mm. The sand is subangular to subrounded. The fines have medium plasticity and toughness, are brown (10YR 4/3), and have a strong reaction to HCl.				Horizontal survey data is expressed in the Nevada State Plane system, Nevada West zone, in feet.	
		CL	<b>SANDY LEAN CLAY</b> (2.5-6.5 feet) Dry, hard, no odor. Primarily silt and clay with ~25% medium to fine sand to 1.5 mm. The sand is subangular to subrounded. The fines have medium plasticity and toughness, are brown (10YR 4/3), and have a strong reaction to HCl.					
5							Sharp contacts indicated by solid lines, gradational contacts indicated by dashed line.	
							All depths are below land surface unless stated otherwise.	
4345		SM	<b>SILTY SAND</b> (6.5-8 feet) Dry, dense, no odor. Primarily medium to fine sand to ~1 mm with ~20% silt and clay. The sand is subangular to subrounded. The fines have low plasticity and toughness, are brown, and do not react to HCl.				WELL DESIGN for B/W-3D: Screened Interval: 129.3-149.3 feet. Bottom of sump: 149.5 feet.	
		SM	<b>SILTY SAND</b> (8-9.5 feet) Dry, loose, no odor. Primarily medium to fine sand with trace coarse sand to ~4 mm and ~30% silt and clay. The sand is subangular to subrounded. The fines are nonplastic, are grayish brown, and do not react to HCl.				Cement Grout: 0-124 feet. Bentonite Chips: 124-127.2 feet. Filter Pack: #60 Sand 127.2-127.8 feet, #10-20 Sand 127.8-150 feet.	
		SC	<b>CLAYEY SAND</b> (9.5-10.75 feet) Dry, dense, no odor.				Depth to Water Measuring Point is Top of PVC Casing. Top of PVC Elevation: 4,353.70 feet, amsl. PVC Stick-up: 2.5 feet above land surface.	

SONIC METHOD LOG YERINGTON.GPJ BRN&CALD.GDT 1/31/06

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Depth (feet)	Elevation (feet)	USCS Group Symbol	Description	Sample No.	Graphic Log			Remarks
					Sample	Lithology	Well	
15	4340		Primarily medium to fine sand to ~1 mm with ~25% silt and clay. The sand and gravel are subangular to subrounded. The fines have medium plasticity and toughness, are dark grayish brown (2.5Y 4/2), and have a strong reaction to HCl.					
		SM	<b>SILTY SAND</b> (10.75-12.25 feet) Dry, loose, no odor. Primarily medium to fine sand to ~2 mm with ~15% silt and clay. The sand is subangular to subrounded. The fines are nonplastic, are light grayish brown, and do not react to HCl.					
	SM	<b>SILTY SAND</b> (12.25-14.5 feet) Dry, loose, no odor. Primarily medium to fine sand with trace fine gravel to ~10 mm and ~15% silt and clay. The sand is subangular to subrounded, the gravel is angular. The fines are nonplastic, are grayish brown, and do not react to HCl.						
	SM	<b>SILTY SAND</b> (8-9.5 feet) Dry to moist, loose, no odor. Primarily medium to fine sand with ~5% coarse sand to ~4 mm and ~25% silt and clay. The sand is angular to subangular. The fines are nonplastic, are brown, and do not react to HCl.						
	4335	CL	<b>SANDY LEAN CLAY</b> (16-16.5 feet) Dry to moist, very stiff, no odor. Primarily silt and clay with ~35% medium to fine sand to ~1 mm. The sand is subangular to subrounded. The fines have medium plasticity and toughness, are olive brown (2.5Y 4/3), and do not react to HCl.					
	SM	<b>SILTY SAND</b> (16.5-20.25 feet) Dry to moist, loose, no odor. Primarily medium to fine sand with ~5% coarse sand to ~4 mm and ~25% silt and clay. The sand is angular to subangular. The fines are nonplastic, are brown, and do not react to HCl.						
	CL	<b>SANDY LEAN CLAY</b> (20.25-20.5 feet) Dry to moist, hard, no odor. Primarily silt and clay with ~35% fine to medium sand to ~2 mm. The sand is subangular to subrounded. The fines have medium plasticity and toughness, are brown (10YR 5/3), and have a strong reaction to HCl.						
	SM	<b>SILTY SAND</b> (20.5-22.75 feet) Dry to moist, medium dense, no odor. Primarily sand to ~2 mm with ~25% silt and clay. The sand is subangular to subrounded. The fines are nonplastic, are brown, and do not react to HCl.						
	4330	SM	<b>SILTY SAND</b> (22.75-23.75 feet)					

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Depth (feet)	Elevation (feet)	USCS Group Symbol	Description	Sample No.	Graphic Log			Remarks
					Sample	Lithology	Well	
25	4325	SC	Dry to moist, loose, no odor. Primarily medium to fine sand with ~5% coarse sand to ~4 mm and ~15% silt and clay. The sand is subangular to subrounded. The fines are nonplastic, are brown, and do not react to HCl. <b>CLAYEY SAND</b> (23.75-25 feet)					
		SW-SM	Dry to moist, medium dense, no odor. Primarily medium to fine sand with trace coarse sand to ~4 mm and ~40% silt and clay. The sand is subangular to subrounded. The fines have low to medium plasticity and low toughness, are brown, and do not react to HCl. <b>WELL-GRADED SAND with SILT</b> (25-26 feet)					
		CL	Moist to saturated, loose, no odor. Primarily coarse to medium sand with ~30% fine sand, ~10% fine gravel to ~8 mm, and ~10% silt and clay. The sand is subangular to subrounded, the gravel is subangular. The fines are nonplastic, are brown, and do not react to HCl. <b>SANDY LEAN CLAY</b> (26-28.5 feet)					
		SM	Dry to moist, hard, no odor. Primarily silt and clay with ~30% medium to fine sand, ~15% coarse sand, and ~5% gravel to ~18 mm. The sand and gravel are subangular. The fines have medium plasticity and toughness, are brown, and have a strong reaction to HCl.					
		SM	Moist, loose, no odor. Primarily medium to fine sand with ~20% coarse sand, ~5% gravel to ~10 mm, and ~25% silt and clay. The fines have low plasticity and toughness, are brown, and have a strong reaction to HCl.					
30	4320	SM	Moist to saturated, loose, no odor. Primarily medium to fine sand with ~5% fine gravel to ~8 mm and ~15% silt and clay. The sand is subangular to subrounded. The fines are nonplastic, are brown, and have a weak reaction to HCl.					
		SM	Moist, medium dense, no odor. Primarily medium to fine sand with trace gravel to ~30 mm and ~20% silt and clay. The sand and gravel are angular to subangular. The fines are nonplastic, are brown, and do not react to HCl.					
35		SM	Moist, medium dense, no odor. Primarily medium to fine sand with trace gravel to ~30 mm and ~20% silt and clay. The sand and gravel are angular to subangular. The fines are nonplastic, are brown, and do not react to HCl.					

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Depth (feet)	Elevation (feet)	USCS Group Symbol	Description	Sample No.	Graphic Log			Remarks
					Sample	Lithology	Well	
40	4310	SM	<b>SILTY SAND with GRAVEL</b> (39.25-39.75 feet) Saturated, loose, no odor.					
		SC	Primarily medium to fine sand with ~15% coarse sand, ~25% gravel to 25 mm, and ~15% silt and clay. The sand and gravel are angular to subangular. The fines are nonplastic, are brown, and do not react to HCl.					
		SM	<b>CLAYEY SAND</b> (39.75-40 feet) Moist, medium dense, no odor.					
			Primarily medium to fine sand with ~15% coarse sand, trace fine gravel to ~10 mm, and ~40% silt and clay. The sand and gravel are subangular. The fines have medium plasticity and toughness, are brown, and have a weak reaction to HCl.					
			<b>SILTY SAND</b> (40-42 feet) Moist, loose, no odor.					
		SM	Primarily medium to fine sand with ~20% coarse sand, ~5% fine gravel to ~10 mm, and ~20% silt and clay. The sand is subangular. The fines are nonplastic, are brown, and do not react to HCl.					
			<b>SILTY SAND</b> (42-43 feet) Moist, loose, no odor.					
		SM	Primarily medium to fine sand with ~20% coarse sand, ~5% fine gravel to ~5 mm, and ~25% silt and clay. The sand is subangular. The fines are nonplastic, are brown, and do not react to HCl.					
			<b>SILTY SAND</b> (44-51.75 feet) Moist, medium dense to dense, no odor.					
45	4305		Primarily medium to fine sand with ~10% gravel to ~40 mm and ~20% silt and clay. The sand and gravel are angular to subangular. The fines are nonplastic, and do not react to HCl.					

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Depth (feet)	Elevation (feet)	USCS Group Symbol	Description	Sample No.	Graphic Log			Remarks
					Sample	Lithology	Well	
50	4300							
		SW-SM	<b>WELL-GRADED SAND with SILT</b> (51.75-52.5 feet) Moist to saturated, loose, no odor. Primarily medium to fine sand with ~25% coarse sand, ~10% gravel to ~30 mm, and ~10% silt and clay. The sand and gravel are angular to subangular. The fines are nonplastic, are brown, and do not react to HCl.	B/W-3 @ 49 - 54 Ft.				
		SM	<b>SILTY SAND</b> (52.5-55 feet) Moist, medium dense, no odor. Primarily medium to fine sand with ~15% coarse sand, ~5% gravel to 35 mm, and ~20% silt and clay. The sand and gravel are angular to subrounded. The fines are nonplastic, and do not react to HCl.					
55		SW-SM	<b>WELL-GRADED SAND with SILT and GRAVEL</b> (55-55.5 feet) Saturated, loose, no odor. Primarily coarse to medium sand with ~30% gravel to ~40 mm and ~10% silt and clay. The sand and gravel are subangular. The fines are nonplastic, are brown, and do not react to HCl.					
	4295	SW-SM	<b>WELL-GRADED SAND with SILT</b> (55.5-57.5 feet) Saturated, loose, no odor. Primarily medium to fine sand with ~10% gravel to ~30 mm and ~10% silt and clay. The sand and gravel are angular to subangular. The fines are nonplastic, are brown, and do not react to HCl.					
		SM	<b>SILTY SAND</b> (57.5-59.5 feet) Moist, medium dense, no odor. Primarily medium to fine sand with ~15% coarse sand, ~10% gravel to ~20 mm, and ~20% silt and clay. The sand and gravel are angular to subangular. The fines are nonplastic, are brown, and do not react to HCl.					
		SM	<b>SILTY SAND</b> (59.5-60.75 feet) Saturated, medium dense, no odor. Primarily medium to fine sand with ~20% coarse sand, ~10% fine gravel to ~10 mm, and ~20% silt and clay. The sand and gravel are angular to subangular. The fines are nonplastic, are brown, and do not react to HCl.					
60		SW-SM	<b>WELL-GRADED SAND with SILT</b> (60.75-61 feet) Saturated, loose, no odor. Primarily coarse to medium sand with ~10% fine gravel to ~10 mm and ~10% silt and clay. The sand and gravel are angular to subangular. The fines are nonplastic, are brown, and do not react to HCl.					
	4290	SM	<b>SILTY SAND</b> (61-62 feet) Saturated, medium dense, no odor.					

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					Sample	Lithology	Well	
65	4285		Primarily medium to fine sand with trace fine gravel to ~10 mm and ~30% silt and clay. The sand and gravel are angular to subangular. The fines are nonplastic, are brown, and do not react to HCl. <b>SILTY SAND</b> (62-64 feet) Saturated, loose, no odor.	B/W-3 @ 62 - 67 Ft.				
		SM	Primarily medium to fine sand with ~20% coarse sand, ~10% gravel to ~20 mm, and ~15% silt and clay. The sand and gravel are subangular. The fines are nonplastic, are brown, and do not react to HCl. <b>SILTY SAND</b> (64-66 feet) Saturated, loose, no odor.					
		SM	Primarily coarse to medium sand with ~10% gravel to ~30 mm and ~15% silt and clay. The sand and gravel are angular to subangular. The fines are nonplastic, are brown, and do not react to HCl.					
		SM	Primarily coarse to medium sand with ~20% fine sand, ~5% fine gravel to ~10 mm, and ~15% silt and clay. The sand and gravel are angular to subangular. The fines are nonplastic, are brown, and do not react to HCl. <b>SILTY SAND</b> (66.5-72 feet) Saturated, medium dense, no odor.					
70	4280		Primarily sand to ~2 mm with ~45% silt and clay. The sand is subangular to subrounded. The fines are nonplastic, are brown, and have a weak reaction to HCl.					
		SM	Moist to saturated, medium dense, no odor. Primarily sand with ~10% fine gravel to ~10 mm and ~30% silt and clay. The sand and gravel are angular to subangular. The fines have low plasticity and toughness, are brown, and do not react to HCl.					
75		CL	<b>SANDY LEAN CLAY</b> (75-76 feet) Dry to moist, hard, no odor.					

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Depth (feet)	Elevation (feet)	USCS Group Symbol	Description	Sample No.	Graphic Log			Remarks
					Sample	Lithology	Well	
4275		SM	<p>Primarily silt and clay with ~45% medium to fine sand to ~2 mm. The sand is subangular to subrounded. The fines have medium plasticity and toughness, are brown, and do not react to HCl.</p> <p><b>SILTY SAND</b> (76-78 feet) Moist to saturated, medium dense, no odor. Primarily medium to fine sand with ~15% coarse sand, ~10% fine gravel to ~10 mm, and ~35% silt and clay. The sand and gravel are angular to subangular. The fines have low plasticity and toughness, are brown, and have a strong reaction to HCl.</p>	B/W-3 @ 75 - 80 Ft.				
	SM	<p><b>SILTY SAND</b> (78-79.5 feet) Saturated, medium dense, no odor. Primarily medium to fine sand with ~15% coarse sand, ~5% fine gravel to ~5 mm, and ~20% silt and clay. The sand and gravel are angular to subangular. The fines are nonplastic, are brown, and do not react to HCl.</p>						
80		CL	<p><b>SANDY LEAN CLAY</b> (79.5-80 feet) Dry to moist, hard, no odor. Primarily silt and clay with ~35% medium to fine sand and ~5% coarse sand to ~4 mm. The sand is subangular. The fines have medium plasticity and toughness, and have a strong reaction to HCl.</p>					
	CL	<p><b>SANDY LEAN CLAY</b> (80-87 feet) Dry to moist, hard, no odor. Primarily silt and clay with ~50% sand to ~2 mm. The sand is subangular to subrounded. The fines have medium plasticity, low toughness, are brown (10YR 5/3), and have a weak reaction to HCl.</p>						
4270								
85								
		SM	<p><b>SILTY SAND</b> (87-87.5 feet) Saturated, medium dense, no odor. Primarily coarse to medium sand with ~15% fine sand, ~10% gravel to ~20 mm, and ~15% silt and clay. The sand and gravel are angular to subangular. The fines are nonplastic, are brown, and do not react to HCl.</p>					
		CL	<p><b>SANDY LEAN CLAY</b> (87.5-88.5 feet) Moist, hard, no odor.</p>					
4265								

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Depth (feet)	Elevation (feet)	USCS Group Symbol	Description	Sample No.	Graphic Log			Remarks
					Sample	Lithology	Well	
90	4260	ML	<p>Primarily silt and clay with ~30% medium to fine sand and ~5% fine gravel to ~10 mm. The sand and gravel are angular to subangular. The fines have medium plasticity and toughness, are brown (10YR 4/3), and do not react to HCl.</p> <p><b>SANDY SILT</b> (88.5-93 feet)</p> <p>Moist to saturated, hard, no odor.</p> <p>Primarily silt and clay with ~40% medium to fine sand and trace coarse sand to ~4 mm. The sand is angular to subangular. The fines have low plasticity and toughness, are brown (10YR 4/3), and do not react to HCl.</p>					
95	4255	SW-SM	<p><b>WELL-GRADED SAND with SILT and GRAVEL</b> (93-96.5 feet)</p> <p>Saturated, loose, no odor.</p> <p>Primarily coarse to medium sand with ~15% gravel to ~50 mm and ~10% silt and clay. The sand and gravel are angular to subangular. The fines are nonplastic, are brown, and do not react to HCl.</p>					
		SM	<p><b>SILTY SAND</b> (96.5-98.5 feet)</p> <p>Moist, medium dense, no odor.</p> <p>Primarily coarse to medium sand with ~20% fine sand, ~5% gravel to ~30 mm, and ~15% silt and clay. The sand and gravel are angular to subangular. The fines are nonplastic, are brown, and have a weak reaction to HCl.</p>					
100		CL	<p><b>LEAN CLAY</b> (98.5-100 feet)</p> <p>Dry to moist, hard, no odor.</p> <p>Primarily silt and clay with ~10% medium to fine sand to ~1 mm. The sand is subangular to subrounded. The fines have medium plasticity and toughness, are yellowish brown (10YR 5/4) and have a strong reaction to HCl.</p>					
	4250	SM	<p><b>SILTY SAND</b> (100-106 feet)</p> <p>Saturated, medium dense, no odor.</p> <p>Primarily medium to fine sand to ~1 mm with ~20% silt and clay. The sand is subangular to subrounded. The fines are nonplastic, are brown, and do not react to HCl.</p>					

B/W-3 @ 93 - 98 Ft.

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					Sample	Lithology	Well	
105								
	4245	CL	<p><b>LEAN CLAY</b> (106-107 feet)                      Dry to moist, hard, no odor.                      Primarily silt and clay with ~20% medium to fine sand to ~1 mm. The sand is subangular to subrounded. The fines have medium plasticity and toughness, are brown (10YR 4/3), and do not react to HCl.</p>					
		CL	<p><b>LEAN CLAY</b> (107-110 feet)                      Dry to moist, hard, no odor.                      Primarily silt and clay with ~30% medium to fine sand to ~1 mm. The sand is subangular to subrounded. The fines have medium plasticity and toughness, are brown (10YR 4/3), and do not react to HCl.</p>					
110		SW	<p><b>WELL-GRADED SAND</b> (110-115 feet)                      Moist to saturated, medium dense, no odor.                      Primarily medium to fine sand with trace fine gravel to ~8 mm and ~5% silt and clay. The sand and gravel are angular to subangular. The fines are nonplastic, are brown, and have a weak reaction to HCl.</p>					
	4240							

B/W-3 @ 110 - 115 Ft.

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Depth (feet)	Elevation (feet)	USCS Group Symbol	Description	Sample No.	Graphic Log			Remarks
					Sample	Lithology	Well	
115	4235	SW	<b>POORLY-GRADED SAND</b> (115-116.75 feet) Moist to saturated, medium dense, no odor. Primarily medium to fine sand with ~10% coarse sand to ~5 mm and ~5% silt and clay. The sand is angular to subangular. The fines have low plasticity and toughness, and are brown.					
		SC	<b>CLAYEY SAND</b> (116.75-118.5 feet) Moist, dense, no odor. Primarily medium to fine sand to ~1 mm with ~40% silt and clay. The fines have medium plasticity and toughness, are brown, and do not react to HCl.					
		SM	<b>SILTY SAND</b> (118.5-120 feet) Moist to saturated, medium dense, no odor. Primarily medium to fine sand to ~1 mm with ~30% silt and clay. The sand and gravel are subangular to subrounded. The fines have low plasticity, are brown, and do not react to HCl. Interval interbedded with some fine-grained lenses, ~1 to 2.5 cm thick.					
120	4230	SC	<b>CLAYEY SAND</b> (120-123.5 feet) Moist, medium dense, no odor. Primarily medium to fine sand to ~1 mm with ~40% silt and clay. The sand is subangular to subrounded. The fines have medium plasticity and toughness, are brown, and do not react to HCl.					
		CH	<b>FAT CLAY</b> (123.5-129.5 feet) Dry to moist, hard, no odor. Primarily silt and clay with ~20% fine sand (<1/2 mm). The sand is subangular to subrounded. The fines have high plasticity and toughness, are bluish black (GLEY N 2.5/), and do not react to HCl.					
125	4225							

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Depth (feet)	Elevation (feet)	USCS Group Symbol	Description	Sample No.	Graphic Log			Remarks
					Sample	Lithology	Well	
130	4220	SM	<b>SILTY SAND</b> (129.5-130 feet) Moist, medium dense, no odor. Primarily medium to fine to ~1 mm sand with ~30% silt and clay. The sand is subangular. The fines are nonplastic, are brown, and do not react to HCl.					
		SM	<b>SILTY SAND</b> (130-132 feet) Moist to saturated, medium dense, no odor. Primarily medium to fine sand with ~20% coarse sand to ~5 mm and ~20% silt and clay. The sand is subangular to subrounded. The fines are nonplastic, are brown, and do not react to HCl.					
		SC	<b>CLAYEY SAND</b> (132-133 feet) Moist, medium dense, no odor. Primarily medium to fine sand to ~1 mm with ~40% silt and clay. The sand is subangular to subrounded. The fines have medium plasticity, are brown, and do not react to HCl.					
		SP-SM	<b>POORLY-GRADED SAND with SILT</b> (133-135 feet) Moist, dense, no odor. Primarily medium to fine sand to ~2 mm with ~10% silt and clay. The sand is subangular. The fines are nonplastic, are brown, and do not react to HCl.					
135	4215	SC	<b>CLAYEY SAND</b> (135-138.5 feet) Moist, medium dense, no odor. Primarily medium to fine sand to ~1 mm with ~40% silt and clay. The sand is subangular. The fines have medium plasticity and toughness, are reddish brown, and do not react to HCl.					
		SM	<b>SILTY SAND</b> (138.5-140 feet) Moist to saturated, medium dense, no odor. Primarily medium to fine sand to ~1 mm with ~15% silt and clay. The sand is subangular. The fines are nonplastic, are reddish brown, and do not react to HCl.					
140		CL	<b>SANDY LEAN CLAY</b> (140-141.5 feet) Dry to moist, stiff, no odor. Primarily silt and clay with ~40% fine sand (<1/2 mm). The sand is subangular. The fines have medium plasticity and					

B/W-3 @ 130 - 135 Ft.

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					Sample	Lithology	Well	
4210			toughness, are brown, and do not react to HCl. Some reddish brown iron oxide streaks.					
		SW-SM	<b>WELL-GRADED SAND with SILT</b> (141-142 feet) Saturated, medium dense, no odor.					
		CL	Primarily medium to fine sand with trace coarse sand to ~3 mm and ~10% silt and clay. The sand is subangular to subrounded. The fines are nonplastic, are brown, and do not react to HCl.					
		SW-SM	<b>SANDY LEAN CLAY</b> (142-142.5 feet) Dry to moist, firm, no odor.					
		SP	Primarily silt and clay with ~40% medium to fine sand. The sand is subangular. The fines have medium plasticity and toughness, are brown, and do not react to HCl. Some reddish brown iron oxide streaks.					
145			<b>WELL-GRADED SAND with SILT</b> (142.5-143.5 feet) Saturated, medium dense, no odor.					
			Primarily medium to fine sand with trace coarse sand to ~3 mm and ~10% silt and clay. The sand is subangular to subrounded. The fines are nonplastic, are brown, and do not react to HCl.					
			<b>POORLY-GRADED SAND</b> (143.5-148 feet) Saturated, medium dense, no odor.					
			Primarily medium to fine sand with ~5% fine gravel to ~8 mm and ~5% silt and clay. The sand and gravel are subangular to subrounded. The fines are nonplastic, are brown, and do not react to HCl.					
4205								
		CH	<b>FAT CLAY</b> (148-150 feet) Dry to moist, hard, no odor.					
			Primarily silt and clay with ~20% fine sand (<1/2 mm). The sand is subangular to subrounded. The fines have medium to high plasticity and toughness, are brown (10YR 5/3), and do not react to HCl.					
150								

B/W-3 @ 143 - 148 Ft.