

PROJECT: Autumnwood Development Wildomar, California		Log of Boring No. 1			
BORING LOCATION: #1 Southern end of South Pasadena Street		ELEVATION AND DATUM:			
DRILLING CONTRACTOR: Interphase		DATE STARTED: 11/7/13	DATE FINISHED: 11/7/13		
DRILLING METHOD: Direct Push		TOTAL DEPTH (ft.): 24.0	MEASURING POINT: ground surface		
DRILLING EQUIPMENT: 6600 GeoProbe		DEPTH TO WATER	FIRST 20	COMPL. 20.77	24 HRS.
SAMPLING METHOD: Dual Tube		LOGGED BY: V. Robino			
HAMMER WEIGHT: NA	DROP: NA	RESPONSIBLE PROFESSIONAL: J. Bahde		REG. NO. 7058	

DEPTH (feet)	SAMPLES			DESCRIPTION NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter.	PID READING (ppm)	REMARKS
	Sample No.	Sample	Blows/ 6 inches			
				Surface Elevation:		
				0.42 ft asphalt		
1				CLAYEY SAND (SC): dark olive gray (5Y 3/2), moist, ~70% fine to medium sand, predominantly fine sand, ~30% low to medium plasticity fines		PID: MiniRAE 3000 calibrated to 100 ppm Isobutylene standard.
2						Hand Auger to a depth of 5 feet below grade.
3				olive brown (2.5Y 4/3), moist, ~70% fine to medium sand, ~30% medium plasticity fines		PID readings are Headspace in resealable plastic bags.
4						
5				SILTY SAND (SM): dark yellowish brown (10YR 4/6), moist, ~80% fine sand, ~20% low plasticity fines	0.0	
6						
7						Replacement push probe constructed at 10 ft bgs.
8				~70% sand, ~30% fines		#3 sand 9.5 - 10.5 ft bgs bentonite granular (dry) 8.5 - 9.5 ft bgs bentonite granular (hydrated) 0 - 8.5 ft bgs
9						
10					0.0	
11						
12						
13						
14				CLAYEY SAND (SC): see next page		

RMRK3-ROTATE SAMPLE NO



DEPTH (feet)	SAMPLES			DESCRIPTION NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter.	PID READING (ppm)	REMARKS
	Sample No.	Sample	Blows/ 6 inches			
15				CLAYEY SAND (SC): dark yellowish brown (10YR 4/6), moist, ~70% fine to medium sand, ~30% medium plasticity fines	0.0	
16				~85% fine to medium sand, ~15% medium plasticity fines		
18				SILTY SAND (SM): dark yellowish brown (10YR 4/4), moist, ~65% fine sand, ~35% low plasticity fines		
19				~65% fine sand, ~35% low to medium plasticity fines		
20				POORLY GRADED SAND with SILT (SP-SM): dark yellowish brown (10YR 4/4), wet, ~90% fine sand, ~10% low plasticity fines	0.2	
21				SILTY SAND (SM): dark yellowish brown (10YR 4/6), moist, ~80% fine sand, ~20% low plasticity fines		
23				POORLY GRADED SAND (SP): dark yellowish brown (10YR 4/4), wet, ~85% fine to coarse sand, ~10% fine gravel, ~5% fines		Temporary 3/4-inch diameter PVC well set from 19 - 24 ft bgs.
24				Bottom of boring at 24 ft bgs.		
25				Temp Soil Gas Probes: 5 ft probe 1.5 - 3.5 = bentonite grout 3.5 - 4.5 = dry granular bentonite 4.5 - 5.5 = #3 sand 5.5 - 6 = dry granular bentonite 6 - 13.5 = bentonite grout 15 ft probe 13.5 - 14.5 = dry granular bentonite 14.5 - 15.5 = #3 sand 15.5 - 16.5 = dry granular bentonite 16.5 - 24 = bentonite grout		DTW = 20.7' bgs
26						Collect groundwater sample 1-GW-19-24 from 19-24 ft bgs using disposable bailer
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RM1K3-ROTATE SAMPLE NO



PROJECT: Autumnwood Development Wildomar, California		Log of Boring No. 6			
BORING LOCATION: #6 North side of Protea Court		ELEVATION AND DATUM:			
DRILLING CONTRACTOR: Interphase		DATE STARTED: 11/8/13	DATE FINISHED: 11/8/13		
DRILLING METHOD: Direct Push		TOTAL DEPTH (ft.): 16.0	MEASURING POINT: ground surface		
DRILLING EQUIPMENT: 6600 GeoProbe		DEPTH TO WATER	FIRST NA	COMPL. NA	24 HRS.
SAMPLING METHOD: Dual Tube		LOGGED BY: V. Robino			
HAMMER WEIGHT: NA	DROP: NA	RESPONSIBLE PROFESSIONAL: J. Bahde		REG. NO. 7058	

DEPTH (feet)	SAMPLES			DESCRIPTION NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter.	PID READING (ppm)	REMARKS
	Sample No.	Sample	Blows/6 inches			
				Surface Elevation: 0.33 ft asphalt		
1				CLAYEY SAND (SC): mottled dark greenish gray (10Y 4/1) and dark yellowish brown (10YR 4/6), moist, ~70% fine sand, trace medium sand, ~30% medium plasticity fines [POSSIBLE FILL]		PID: MiniRAE 3000 calibrated to 100 ppm Isobutylene standard.
2						Hand Auger to a depth of 5 feet below grade.
3						PID readings are Headspace in resealable plastic bags.
4						
5						
6	6-SS-5-6			mottled brown (10YR 4/3) and dark yellowish brown (10YR 4/6), ~60% fine sand, trace medium sand, ~40% medium plasticity fines [POSSIBLE FILL]	0.8	Replacement push probe constructed at 3 ft bgs. #3 sand 2.5 - 3.5 ft bgs bentonite granular (dry) 2.0 - 2.5 ft bgs bentonite granular (hydrated) 0 -2.0 ft bgs
7						
8						
9				SILTY SAND (SM): dark yellowish brown (10YR 4/4), moist, ~70% fine sand, ~30% low plasticity fines		
10	6-SS-9-11					
11					1.6	
12						
13	6-SS-13.75 - 14.75			CLAYEY SAND (SC): dark grayish brown (10YR 4/2), moist, ~70% fine to medium sand, ~30% medium plasticity fines		
14				~80% fine to medium sand, ~20% medium plasticity fines	1.2	

RMRK3-ROTATE SAMPLE NO



DEPTH (feet)	SAMPLES			DESCRIPTION NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter.	PID READING (ppm)	REMARKS
	Sample No.	Sample	Blows/ 6 inches			
15				CLAYEY SAND (SC): continued		
16				Bottom of boring at 16 ft bgs. Groundwater not encountered at time of drilling.		
17				Temp Soil Gas Probes: Probe at 5 1.5 - 3.5 = bentonite grout 3.5 - 4.5 = dry granular bentonite 4.5 - 5.5 = #3 sand 5.5 - 6 = dry granular bentonite 6 - 13.5 = bentonite grout Probe at 15 13.5 - 14.5 = dry granular bentonite 14.5 - 15.5 = #3 sand 15.5 - 16 = dry granular bentonite		
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RMRK3-ROTATE SAMPLE NO



PROJECT: Autumnwood Development Wildomar, California		Log of Boring No. 7			
BORING LOCATION: #7 E. side of S. Pasadena St., S. of Pink Ginger Court		ELEVATION AND DATUM:			
DRILLING CONTRACTOR: Interphase		DATE STARTED: 11/8/13	DATE FINISHED: 11/8/13		
DRILLING METHOD: Direct Push		TOTAL DEPTH (ft.): 28.0	MEASURING POINT: ground surface		
DRILLING EQUIPMENT: 6600 GeoProbe		DEPTH TO WATER	FIRST ~27	COMPL. 26.55	24 HRS.
SAMPLING METHOD: Dual Tube		LOGGED BY: V. Robino			
HAMMER WEIGHT: NA	DROP: NA	RESPONSIBLE PROFESSIONAL: J. Bahde		REG. NO. 7058	

DEPTH (feet)	SAMPLES			DESCRIPTION NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter.	PID READING (ppm)	REMARKS
	Sample No.	Sample	Blows/ 6 inches			
				Surface Elevation:		
				0.42 ft asphalt and 0.58 ft base material		
1				SILTY SAND (SM): dark yellowish brown (10YR 4/6), moist, ~70% fine sand, ~30% low plasticity fines, ~trace medium sand		PID: MiniRAE 3000 calibrated to 100 ppm Isobutylene standard.
2						Hand Auger to a depth of 5 feet below grade.
3						PID readings are Headspace in resealable plastic bags.
4						
5				~80% sand, ~20% fines	0.2	
6						
7						
8				~75% sand, ~25% fines		
9						
10				~70% sand, ~30% fines	0.2	
11						
12				CLAYEY SAND (SC): dark yellowish brown (10YR 4/6), moist, ~70% fine sand, ~30% medium plasticity fines		
13						
14						

RMRK3-ROTATE SAMPLE NO



DEPTH (feet)	SAMPLES			DESCRIPTION NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter.	PID READING (ppm)	REMARKS
	Sample No.	Sample	Blows/ 6 inches			
15				CLAYEY SAND (SC): continued	0.2	
16				~65% fine to medium sand, ~35% medium plasticity fines		
17						
18						
19						
20				~70% sand, ~30% fines, coarsens	0.2	
21				~80% sand, ~20% fines		
22						
23				coarsens, ~70% sand, predominantly medium sand, ~30% fines		
24				~80% sand, ~20% fines		
25					0.2	
26						
27				wet		Temporary 3/4-inch diameter PVC well set from 23 - 28 ft bgs.
28				~70% fine to medium sand, ~30% medium plasticity fines		Collect groundwater sample 7-GW-23-28 and split sample using disposable bailer
29				Bottom of boring at 28 ft bgs.		
30				Temp Soil Gas Probes: 5 ft probe 1.5 - 3.5 = bentonite grout 3.5 - 4.5 = dry granular bentonite 4.5 - 5.5 = #3 sand 5.5 - 6.0 = dry granular bentonite 6.0 - 13.5 = bentonite grout		
31						

RMRK3-ROTATE SAMPLE NO



PROJECT: Autumnwood Development
Wildomar, California

Log of Boring No. 7 (cont'd)

DEPTH (feet)	SAMPLES			DESCRIPTION NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter.	PID READING (ppm)	REMARKS
	Sample No.	Sample	Blows/ 6 inches			
32				15 ft probe 13.5 - 14.5 = dry granular bentonite 14.5 - 15.5 = #3 sand 15.5 - 16.4 = dry granular bentonite 16.4 - 28 = bentonite grout		
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RMK3-ROTATE SAMPLE NO



PROJECT: Autumnwood Development Wildomar, California		Log of Boring No. 8			
BORING LOCATION: #8 North side of Pink Ginger Court		ELEVATION AND DATUM:			
DRILLING CONTRACTOR: Interphase		DATE STARTED: 11/8/13	DATE FINISHED: 11/8/13		
DRILLING METHOD: Direct Push		TOTAL DEPTH (ft.): 16.0	MEASURING POINT: ground surface		
DRILLING EQUIPMENT: 6600 GeoProbe		DEPTH TO WATER	FIRST NA	COMPL. NA	24 HRS.
SAMPLING METHOD: Dual Tube		LOGGED BY: V. Robino			
HAMMER WEIGHT: NA	DROP: NA	RESPONSIBLE PROFESSIONAL: J. Bahde		REG. NO. 7058	

DEPTH (feet)	SAMPLES			DESCRIPTION NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter.	PID READING (ppm)	REMARKS
	Sample No.	Sample	Blows/ 6 inches			
				Surface Elevation:		
				0.35 ft asphalt and 0.17 ft base material		
1				CLAYEY SAND (SC): dark yellowish brown (10YR 4/4), moist, ~60% fine to medium sand, trace coarse sand, ~30% medium plasticity fines, ~10% fine gravel [FILL]		PID: MiniRAE 3000 calibrated to 100 ppm Isobutylene standard.
2				CLAYEY GRAVEL with SAND (GC): dark yellowish brown (10YR 4/4), ~60% fine and coarse gravel, ~25% fine to coarse sand, ~15% medium plasticity fines [FILL]		Hand Auger to a depth of 5 feet below grade.
3						PID readings are Headspace in resealable plastic bags.
4						
5				CLAYEY SAND (SC): mottled dark yellowish brown (10YR 4/4) and olive gray (5Y 4/2), moist, ~75% fine to medium sand, ~25% medium plasticity fines [FILL]		
6		8-SS-5-6			0.8	
7				@7 ft, 1/2" diameter concrete fragment [FILL]		Replacement push probe constructed at 3 ft bgs.
8				POORLY GRADED SAND (SP): yellowish brown (10YR 5/4), moist, ~95% fine to medium sand, ~5% fines		#3 sand 2.5 - 3.5 ft bgs
9				SILTY SAND (SM): dark yellowish brown (10YR 3/6), moist, ~65% fine sand, ~35% low plasticity fines		bentonite granular (dry) 2.0 - 2.5 ft bgs
10		8-SS-9.5-10.5				bentonite granular (hydrated) 0 - 2 ft bgs
11						
12						
13						
14						

RMRK3-ROTATE SAMPLE NO



DEPTH (feet)	SAMPLES			DESCRIPTION NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter.	PID READING (ppm)	REMARKS
	Sample No.	Sample	Blows/ 6 inches			
15	8-SS-14.25-15.25			SILTY SAND (SM): continued	0.9	
16				Bottom of boring at 16 ft bgs. Groundwater not encountered at time of drilling.		
17				<p>Temp Soil Gas Probes: 5 ft probe 1.5 - 3.5 = bentonite grout 3.5 - 4.5 = dry granular bentonite 4.5 - 5.5 = #3 sand 5.5 - 6 = dry granular bentonite 6 - 13.5 = bentonite grout 15 ft probe 13.5 - 14.5 = dry granular bentonite 14.5 - 15.5 = #3 sand 15.5 - 16 = dry granular bentonite</p>		
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RMIRK3-ROTATE SAMPLE NO



PROJECT: Autumnwood Development Wildomar, California		Log of Boring No. 11			
BORING LOCATION: #11 North end of Penrose Street		ELEVATION AND DATUM:			
DRILLING CONTRACTOR: Interphase		DATE STARTED: 11/7/13	DATE FINISHED: 11/7/13		
DRILLING METHOD: Direct Push		TOTAL DEPTH (ft.): 36.0	MEASURING POINT: ground surface		
DRILLING EQUIPMENT: 6600 GeoProbe		DEPTH TO WATER	FIRST 27	COMPL. 28.05	24 HRS.
SAMPLING METHOD: Dual Tube/Temp Well		LOGGED BY: V. Robino			
HAMMER WEIGHT: NA		DROP: NA		RESPONSIBLE PROFESSIONAL: J. Bahde	REG. NO. 7058

DEPTH (feet)	SAMPLES			DESCRIPTION NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter. Surface Elevation: 0.3 ft asphalt and base material	PID READING (ppm)	REMARKS
	Sample No.	Sample	Blows/ 6 inches			
1				SILTY SAND (SM): dark yellowish brown (10YR 4/6), moist, ~75% fine to medium sand, ~25% low plasticity fines		PID: MiniRAE 3000 calibrated to 100ppm Isobutylene standard. Hand Auger to a depth of 5 feet below grade.
2						
3						
4						
5				~75% fine to coarse sand, predominantly fine to medium sand, ~25% low plasticity fines, trace fine gravel	0.9	
6						
7						
8						
9				POORLY GRADED SAND (SP): dark yellowish brown (10YR 4/6), moist, ~95% fine to medium sand, ~5% fines		
10				CLAYEY SAND (SC): dark yellowish brown (10YR 4/4), moist, ~70% fine to medium sand, ~30% low to medium plasticity fines	0.8	
11				SILTY SAND (SM): dark yellowish brown (10YR 4/6), moist, ~70% fine to trace medium sand, ~30% low plasticity fines		
12						
13						
14						

RMRK3-ROTATE SAMPLE NO



DEPTH (feet)	SAMPLES			DESCRIPTION NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter.	PID READING (ppm)	REMARKS
	Sample No.	Sample	Blows/ 6 inches			
15				<p>↓ SILTY SAND (SM): continued low to medium plasticity fines</p>	0.7	
16				<p>CLAYEY SAND (SC): dark yellowish brown (10YR 4/4), moist, ~70% fine to medium sand, ~30% medium plasticity fines</p>		
17						
18						
19						
20				<p>↓ ~85% fine to trace medium sand, ~15% low to medium plasticity fines</p>	0.9	
21				<p>↓ ~70% sand, ~30% fines</p>		
22						
23						
24				<p>SILTY SAND (SM): dark yellowish brown (10YR 4/4), moist, ~70% fine to medium sand, ~30% low plasticity fines</p>		
25				<p>↓ increased moisture</p>	0.8	
26						
27				<p>↓ wet, ~85% fine to coarse sand, ~15% low to medium plasticity fines, trace fine gravel</p>		
28				<p>↓ ~70% fine to trace medium sand, ~30% low to medium plasticity fines</p>		
29				<p>CLAYEY SAND (SC): dark yellowish brown (10YR 4/4), moist, ~70% fine to trace medium sand, ~30% medium plasticity fines</p>		
30					0.4	
31				<p>SILTY SAND (SM): see next page</p>		

RMRK3-ROTATE SAMPLE NO



DEPTH (feet)	SAMPLES			DESCRIPTION NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter.	PID READING (ppm)	REMARKS
	Sample No.	Sample	Blows/ 6 inches			
32				SILTY SAND (SM): ~70% fine to trace medium sand, ~30% low to medium plasticity fines		Set temporary 3/4-inch diameter PVC well from 27 - 32 ft bgs; dry
33				CLAYEY SAND (SC): dark yellowish brown (10YR 4/4), wet, ~65% fine sand, trace medium sand, ~35% low to medium plasticity fines		
34				POORLY GRADED SAND (SP): mottled olive brown (2.5Y 4/4) and dark yellowish brown (10YR 4/4), wet, ~85% fine to coarse sand, ~10% fine gravel, ~5% fines		
35						
36				Bottom of boring at 36 ft bgs.		Set new temporary 3/4-inch diameter PVC well from 31 - 36 ft bgs
37				Temp Soil Gas Probes: 5 ft probe 1.5 - 3.5 = bentonite grout 3.5 - 4.5 = dry granular bentonite		DTW = 28.05 ft bgs
38				4.5 - 5.5 = #3 sand 5.5 - 6.0 = dry granular bentonite 6.0 - 13.5 = bentonite grout		Collect groundwater sample 11-GW-31-36 using disposable bailer
39				15 ft probe 13.5 - 14.5 = dry granular bentonite 14.5 - 15.5 = #3 sand		
40				15.5 - 16 = dry granular bentonite 16 - 36 = bentonite grout		
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RM1K3-ROTATE SAMPLE NO



PROJECT: Autumnwood Development Wildomar, California		Log of Boring No. 12			
BORING LOCATION: End of Amaryllis Court		ELEVATION AND DATUM:			
DRILLING CONTRACTOR: Interphase		DATE STARTED: 11/8/13		DATE FINISHED:	
DRILLING METHOD: Direct Push		TOTAL DEPTH (ft.): 16.0		MEASURING POINT: ground surface	
DRILLING EQUIPMENT: 6600 GeoProbe		DEPTH TO WATER	FIRST NA	COMPL. NA	24 HRS.
SAMPLING METHOD: Dual Tube		LOGGED BY: V. Robino			
HAMMER WEIGHT: NA		DROP: NA		RESPONSIBLE PROFESSIONAL: J. Bahde	REG. NO. 7058

DEPTH (feet)	SAMPLES			DESCRIPTION NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter.	PID READING (ppm)	REMARKS
	Sample No.	Sample	Blows/6 inches			
				Surface Elevation:		
				0.3 ft asphalt		
1				SILTY SAND (SM): dark yellowish brown (10YR 4/4), moist, ~80% fine to medium sand, ~20% low plasticity fines		PID: MiniRAE 3000 calibrated to 100 ppm Isobutylene standard.
2						Hand Auger to a depth of 5 feet below grade.
3						PID readings are Headspace in resealable plastic bags.
4						
5				~80% fine to coarse sand, ~20% fines	5.3	
6				trace fine gravel, mottled dark yellowish brown (10YR 4/4) and dark grayish brown (2.5Y 4/2)		
7				CLAYEY SAND (SC): dark grayish brown (2.5Y 4/2), moist, ~60% fine sand, ~40% medium plasticity fines		
8				CLAYEY SAND (SC): dark grayish brown (2.5Y 4/2), moist, ~60% fine sand, ~40% medium plasticity fines		
9				CLAYEY SAND (SC): dark greenish gray (10Y 4/1), moist, ~70% fine to medium sand, ~30% medium plasticity fines, trace coarse gravel embedded in sandy lean clay, micaceous		
10				SILTY SAND (SM): dark yellowish brown (10YR 4/6), moist, ~75% fine sand, trace medium sand, ~25% low plasticity fines	2.1	Initial response of 398 reported when probe tip plugged. After recalibrating and ~10 minute wait, response was 2.1.
11				POORLY GRADED SAND (SP): dark yellowish brown (10YR 4/6), moist, ~95% fine sand, ~5% fines	398	
12						
13				SILTY SAND (SM): dark yellowish brown (10YR 4/6), moist, ~75% fine sand, trace medium sand, ~25% low plasticity fines	1.5	
14						

RMRK3-ROTATE SAMPLE NO



DEPTH (feet)	SAMPLES			DESCRIPTION NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter.	PID READING (ppm)	REMARKS
	Sample No.	Sample	Blows/ 6 inches			
15	12-SS-13.25-15.25			SILTY SAND (SM): continued		
16				Bottom of boring at 16 ft bgs.		
17				Temp Soil Gas Probes: 5 ft probe		
18				1.5 - 3.5 = bentonite grout		
				3.5 - 4.5 = dry granular bentonite		
				4.5 - 5.5 = #3 sand		
				5.5 - 6 = dry granular bentonite		
				6 - 13.5 = bentonite grout		
19				15 ft probe		
				13.5 - 14.5 = dry granular bentonite		
				14.5 - 15.5 = #3 sand		
				15.5 - 16 = dry granular bentonite		
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30						
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RMIRK3-ROTATE SAMPLE NO



PROJECT: Autumnwood Development Wildomar, California		Log of Boring No. 13			
BORING LOCATION: #13 South Pasadena Street, near Amaryllis Court		ELEVATION AND DATUM:			
DRILLING CONTRACTOR: Interphase		DATE STARTED: 11/7/13	DATE FINISHED: 11/7/13		
DRILLING METHOD: Direct Push		TOTAL DEPTH (ft.): 32.0	MEASURING POINT: ground surface		
DRILLING EQUIPMENT: 6600 GeoProbe		DEPTH TO WATER	FIRST 27.21	COMPL. NA	24 HRS.
SAMPLING METHOD: Dual Tube/Temp Well		LOGGED BY: V. Robino			
HAMMER WEIGHT: NA	DROP: NA	RESPONSIBLE PROFESSIONAL: J. Bahde		REG. NO. 7058	

DEPTH (feet)	SAMPLES			DESCRIPTION NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter. Surface Elevation:	PID READING (ppm)	REMARKS
	Sample No.	Sample	Blows/ 6 inches			
1				0.3 ft asphalt and 0.9 ft concrete base		PID: MiniRAE 3000 calibrated to 100 ppm Isobutylene standard. Hand Auger to a depth of 5 feet below grade. PID readings are Headspace in resealable plastic bags.
2				CLAYEY SAND (SC): dark grayish brown (2.5Y 4/2), moist, ~65% fine to medium sand, ~35% medium plasticity fines		
3						
4				▼ yellowish brown (10YR 5/6), ~85% fine to medium sand, ~15% low to medium plasticity fines		
5				▼ ~75% sand, ~25% medium plasticity fines	3.1	
6						
7						
8				▼ dark olive gray (5Y 3/2), ~65% fine to medium sand, trace medium sand, ~35% medium plasticity fines		
9						
10				▼ dark yellowish brown (10YR 4/6), ~70% fine to trace medium sand, ~30% low to medium plasticity fines	2.2	
11						
12				POORLY GRADED SAND (SP): dark yellowish brown (10YR 4/6), moist, ~95% fine to medium sand, trace coarse sand, ~5% fines		
13				SILTY SAND (SM): dark yellowish brown (10YR 4/4), moist, ~65% fine to trace medium sand, ~35% low to medium plasticity fines		
14						

RMRK3-ROTATE SAMPLE NO



DEPTH (feet)	SAMPLES			DESCRIPTION NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter.	PID READING (ppm)	REMARKS
	Sample No.	Sample	Blows/ 6 inches			
15				SILTY SAND (SM): continued	2.8	
16				CLAYEY SAND (SC): dark yellowish brown (10YR 4/4), moist, ~80% fine to coarse sand, trace fine gravel, ~20% medium plasticity fines		
17						
18						
19				~75% fine to medium sand, ~25% medium plasticity fines		
20				SILTY SAND (SM): dark yellowish brown (10YR 4/4), moist, ~75% fine to medium sand, ~25% low plasticity fines	2.1	
21						
22						
23				~70% fine sand, ~30% fines		
24				CLAYEY SAND (SC): dark yellowish brown (10YR 4/6), moist, ~65% fine to coarse sand, ~35% medium plasticity fines, trace fine gravel		
25						
26				mottled yellowish brown (10YR 5/6) and olive gray (5Y 4/2), ~70% fine to medium sand, ~30% low to medium plasticity fines		
27						
28				olive (5Y 4/3), ~65% fine to coarse sand, ~25% medium plasticity fines, ~10% fine gravel		
29						
30				POORLY GRADED SAND (SP): olive (5Y 4/3), wet, ~85% fine to coarse sand, ~10% fine gravel, ~5% fines		
31				CLAYEY SAND (SC): see next page		

RM1K3-ROTATE SAMPLE NO



DEPTH (feet)	SAMPLES			DESCRIPTION NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter.	PID READING (ppm)	REMARKS
	Sample No.	Sample	Blows/ 6 inches			
32				CLAYEY SAND (SC): olive (5Y 4/3), ~65% fine to coarse sand, ~25% medium plasticity fines, ~10% fine gravel		
33				Bottom of boring at 32 ft bgs.		
34				Temp Soil Gas Probes: 5 ft probe 1.5 - 3.5 = bentonite grout 3.5 - 4.5 = dry granular bentonite 4.5 - 5.5 = #3 sand 5.5 - 6.0 = dry granular bentonite 15 ft probe 13.5 - 14.5 = dry granular bentonite 14.5 - 15.5 = #3 sand 15.5 - 17.2 = dry granular bentonite 17.2 - 32 = bentonite grout		
36						Temporary 3/4-inch diameter PVC well set from 27 - 32 ft bgs.
37						Collect groundwater sample 13-GW-27-32 from 27-32 ft bgs using disposable bailer
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RMRK3-ROTATE SAMPLE NO

