

BORING LOCATION: See Site Plan		DRILLER: PSC		BORING NO. B-1									
BORING ELEVATION:		LOGGED BY: B. Anderson											
DATE (S) DRILLED: 8/20/05		TYPE RIG: Diedrich (D-25)											
OTHER LAB TESTS	DRY UNIT WEIGHT (pcf)	MOISTURE CONTENT (%)	CORE RECOVERY (%)	R.O.D. (%)	NUMBER OF BLOWS/1'2'	SAMPLE NUMBER	DEPTH IN FEET	GRAPHIC SYMBOL	U.S.C.S.	GEOTECHNICAL DESCRIPTION			
							Aug-1			Silly CLAY, with a tr. of gravel, brown, dry, v. stiff			
							1		CH				
							2						
							3						
							4						
	23.7				21	SPT-1	5		CH	Silly CLAY, brown, damp, v. stiff			
							6						
							7	Aug-2		Silly CLAY, brown, damp, tr. gravel, v. stiff			
	0.2						8		CH				
							9						
							10	Aug-3		Boulders in Silty CLAY (could not SPT sample because of boulders)			
							11						
	18.0						12						
							13						
	11.6						14			Boring Terminated at about 15.0 feet. No groundwater encountered.			
							15						
SAMPLE TYPE						OTHER LABORATORY TESTS							
MC - Modified California SPT - Standard Penetration		MD - Moisture/Density		UC - Unconfined Compression		CB - Core Barrel		SH - Shelby Tube		CON - Consolidation Test		SG - Specific Gravity	
AUG - Auger Cuffings		D&M - Dames & Moore		PI - Atterberg Limits		SA - Sieve Analysis							
LOG OF BORING													
Geotechnical & Environmental Consultants Construction Management, Testing & Inspection				E. Kapolei Parcel "B", Offsite Improvements Water and Sewage Transmission Mains Kapolei, Ewa, Oahu, Hawaii									
				DATE: September 2005		PROJECT NO.: 24307.11							

PLATE NO. 3

BORING LOCATION: See Site Plan		DRILLER: PSC		BORING NO. B-2									
BORING ELEVATION:		LOGGED BY: B. Anderson											
DATE (S) DRILLED: 8/27/05		TYPE RIG: Diedrich (D-25)											
OTHER LAB TESTS	DRY UNIT WEIGHT (pcf)	MOISTURE CONTENT (%)	CORE RECOVERY (%)	R.O.D. (%)	NUMBER OF BLOWS/1'2'	SAMPLE NUMBER	DEPTH IN FEET	GRAPHIC SYMBOL	U.S.C.S.	GEOTECHNICAL DESCRIPTION			
							Aug-1			Gravelly, Silty, CLAY, with cobbles and boulders, dry, loose (prob. fill)			
							1		CL				
							2						
							3						
							4						
	21.7				21	SPT-1	5		CH	Silly CLAY, brown, damp, v. stiff			
							6						
							7	Aug-2		Silly CLAY, tr. sand (v. weathered volcanic tuff), brown, damp, v. hard			
							8						
							9						
							10	SPT-2					
	20.0				>50		11						
							12						
							13						
							14						
							15	Aug-3		Boring terminated at about 16.5 feet. Groundwater not encountered			
							16						
	19.9				>50	SPT-3	17						
							18						
SAMPLE TYPE						OTHER LABORATORY TESTS							
MC - Modified California SPT - Standard Penetration		MD - Moisture/Density		UC - Unconfined Compression		CB - Core Barrel		SH - Shelby Tube		CON - Consolidation Test		SG - Specific Gravity	
AUG - Auger Cuffings		D&M - Dames & Moore		PI - Atterberg Limits		SA - Sieve Analysis							
LOG OF BORING													
Geotechnical & Environmental Consultants Construction Management, Testing & Inspection				E. Kapolei Parcel "B", Offsite Improvements Water and Sewage Transmission Mains Kapolei, Ewa, Oahu, Hawaii									
				DATE: September 2005		PROJECT NO.: 24307.11							

PLATE NO. 4

BORING LOCATION: See Site Plan		DRILLER: PSC		BORING NO. B-3									
BORING ELEVATION:		LOGGED BY: B. Anderson											
DATE (S) DRILLED: 8/27/05		TYPE RIG: Diedrich (D-25)											
OTHER LAB TESTS	DRY UNIT WEIGHT (pcf)	MOISTURE CONTENT (%)	CORE RECOVERY (%)	R.O.D. (%)	NUMBER OF BLOWS/1'2'	SAMPLE NUMBER	DEPTH IN FEET	GRAPHIC SYMBOL	U.S.C.S.	GEOTECHNICAL DESCRIPTION			
							Aug-1			Gravelly, Silty, CLAY, with cobbles and boulders, dry, soft to stiff, (fill, in part)			
							1		CH				
							2						
							3						
							4						
							5	SPT-1		Silly CLAY, tr. of sand (v. weathered volcanic tuff), brown, damp, hard, grading downward to v. hard			
	20.3				34		6						
							7	Aug-2					
							8						
							9						
							10	SPT-2					
	22.5				48		11						
							12						
							13						
							14						
							15	Aug-3		Silly CLAY, tr. of sand (v. weathered volcanic tuff), damp, very hard			
							16						
							17						
	18.7				>50	SPT-3	18			Terminated boring at approximately 16.5 feet. Groundwater not encountered			
SAMPLE TYPE						OTHER LABORATORY TESTS							
MC - Modified California SPT - Standard Penetration		MD - Moisture/Density		UC - Unconfined Compression		CB - Core Barrel		SH - Shelby Tube		CON - Consolidation Test		SG - Specific Gravity	
AUG - Auger Cuffings		D&M - Dames & Moore		PI - Atterberg Limits		SA - Sieve Analysis							
LOG OF BORING													
Geotechnical & Environmental Consultants Construction Management, Testing & Inspection				E. Kapolei Parcel "B", Offsite Improvements Water and Sewage Transmission Mains Kapolei, Ewa, Oahu, Hawaii									
				DATE: September 2005		PROJECT NO.: 24307.11							

PLATE NO. 5

BORING LOCATION: See Site Plan		DRILLER: PSC		BORING NO. B-4									
BORING ELEVATION:		LOGGED BY: B. Anderson											
DATE (S) DRILLED: 8/27/05		TYPE RIG: Diedrich (D-25)											
OTHER LAB TESTS	DRY UNIT WEIGHT (pcf)	MOISTURE CONTENT (%)	CORE RECOVERY (%)	R.O.D. (%)	NUMBER OF BLOWS/1'2'	SAMPLE NUMBER	DEPTH IN FEET	GRAPHIC SYMBOL	U.S.C.S.	GEOTECHNICAL DESCRIPTION			
							Aug-1			Silly CLAY, brown, dry, soft (plowed field) grades downward to v. stiff at about 3 ft.			
							1		CH				
							2						
							3						
							4						
							5	SPT-1					
	23.5				28		6						
							7	Aug-2					
							8						
							9						
							10	SPT-2					
	21.7				54		11						
							12						
							13						
							14						
							15	Aug-3		Silly CLAY, brown, damp, very hard			
							16						
							17						
	22.2				39	SPT-3	18			Terminated boring at about 16.5 feet. Groundwater not encountered			
SAMPLE TYPE						OTHER LABORATORY TESTS							
MC - Modified California SPT - Standard Penetration		MD - Moisture/Density		UC - Unconfined Compression		CB - Core Barrel		SH - Shelby Tube		CON - Consolidation Test		SG - Specific Gravity	
AUG - Auger Cuffings		D&M - Dames & Moore		PI - Atterberg Limits		SA - Sieve Analysis							
LOG OF BORING													
Geotechnical & Environmental Consultants Construction Management, Testing & Inspection				E. Kapolei Parcel "B", Offsite Improvements Water and Sewage Transmission Mains Kapolei, Ewa, Oahu, Hawaii									
				DATE: September 2005		PROJECT NO.: 24307.11							

PLATE NO. 6

BORING LOCATION: See Site Plan		DRILLER: PSC		BORING NO. B-5									
BORING ELEVATION:		LOGGED BY: B. Anderson											
DATE (S) DRILLED: 8/20/05		TYPE RIG: Diedrich (D-25)											
OTHER LAB TESTS	DRY UNIT WEIGHT (pcf)	MOISTURE CONTENT (%)	CORE RECOVERY (%)	R.O.D. (%)	NUMBER OF BLOWS/1'2'	SAMPLE NUMBER	DEPTH IN FEET	GRAPHIC SYMBOL	U.S.C.S.	GEOTECHNICAL DESCRIPTION			
							Aug-1			Silly CLAY, tr. of gravel, brown, dry, v. stiff			
							1		CH				
							2						
							3						
							4						
	15.4						5	SPT-1		Silly CLAY, tr. of sand (v. weathered volcanic tuff), damp, brown, hard			
							6						
							7	Aug-2					
							8						
							9						
							10	SPT-2					
	19.2				27		11						
							12						
							13						
							14						
							15	Aug-3					
							16						
							17						
	22.8						18			Boring Terminated at about 16.5 feet. Groundwater not encountered			
							19						
SAMPLE TYPE						OTHER LABORATORY TESTS							
MC - Modified California SPT - Standard Penetration		MD - Moisture/Density		UC - Unconfined Compression		CB - Core Barrel		SH - Shelby Tube		CON - Consolidation Test		SG - Specific Gravity	
AUG - Auger Cuffings		D&M - Dames & Moore		PI - Atterberg Limits		SA - Sieve Analysis							
LOG OF BORING													
Geotechnical & Environmental Consultants Construction Management, Testing & Inspection				E. Kapolei Parcel "B", Offsite Improvements Water and Sewage Transmission Mains Kapolei, Ewa, Oahu, Hawaii									
				DATE: September 2005		PROJECT NO.: 24307.11							

PLATE NO. 7

BORING LOCATION: See Site Plan		DRILLER: PSC		BORING NO. B-6									
BORING ELEVATION:		LOGGED BY: B. Anderson											
DATE (S) DRILLED: 8/20/05		TYPE RIG: Diedrich (D-25)											
OTHER LAB TESTS	DRY UNIT WEIGHT (pcf)	MOISTURE CONTENT (%)	CORE RECOVERY (%)	R.O.D. (%)	NUMBER OF BLOWS/1'2'	SAMPLE NUMBER	DEPTH IN FEET	GRAPHIC SYMBOL	U.S.C.S.	GEOTECHNICAL DESCRIPTION			
							Aug-1			Silly CLAY, brown, dry, stiff			
							1		CH				
							2						
							3						
							4						
							5	SPT-1		Silly CLAY, tr. of sand (v. weathered volcanic tuff), brown, damp, v. stiff			
	25.2				27		6						
							7	Aug-2					
							8						
							9						
							10	SPT-2					
	23.6				30		11						
							12						
							13						
							14						
							15	Aug-3					
							16						
							17						
	22.5						18			Boring terminated at about 16.5 feet. Groundwater not encountered			
SAMPLE TYPE						OTHER LABORATORY TESTS							
MC - Modified California SPT - Standard Penetration		MD - Moisture/Density		UC - Unconfined Compression		CB - Core Barrel		SH - Shelby Tube		CON - Consolidation Test		SG - Specific Gravity	
AUG - Auger Cuffings		D&M - Dames & Moore		PI - Atterberg Limits		SA - Sieve Analysis							
LOG OF BORING													
Geotechn													

BORING LOCATION: See Site Plan		DRILLER: PSC		BORING NO. B-8					
BORING ELEVATION:		LOGGED BY: B. Anderson							
DATE (S) DRILLED: 8/21/05		TYPE RIG: Diedrich (D-25)							
OTHER LAB TESTS	DRY UNIT WEIGHT (pcf)	MOISTURE CONTENT (%)	CORE RECOVERY (%)	R.O.D. (%)	NUMBER OF BLOWS/1'2'	DEPTH IN FEET	GRAPHIC SYMBOL	U.S.C.S.	GEOTECHNICAL DESCRIPTION
		19.0			31	1	CH		Silly CLAY, brown, dry, v. stiff, with roots
						2	CH		
						3	CH		Silly CLAY, brown, damp, v. stiff
						4	CH		
						5	CH		
						6	CH		
						7	CH		
						8	CH		
		22.5			82	9	CH		Silly CLAY, tr. of sand (v. weathered volcanic tuff), brown, damp, v. hard
						10	CH		
						11	CH		
						12	CH		
						13	CH		
						14	CH		
		21.8			84	15	CH		Silly CLAY, tr. of sand (v. weathered volcanic tuff), brown with black, orange spots, damp, v. hard
						16	CH		
						17	CH		
						18	CH		
Boring terminated at about 16.5 feet Groundwater was not encountered									
SAMPLE TYPE					OTHER LABORATORY TESTS				
MC - Modified California	SPT - Standard Penetration	MD - Moisture/Density	UC - Unconfined Compression						
CB - Core Barrel	SH - Shelby Tube	CON - Consolidation Test	SG - Specific Gravity						
AUG - Auger Cuttings	D&M - Dames & Moore	PI - Atterberg Limits	SA - Sieve Analysis						
LOG OF BORING					LOG OF BORING				
Geotechnical & Environmental Consultants Construction Management, Testing & Inspection					E. Kapolei Parcel "B", Offsite Improvements Water and Sewage Transmission Mains Kapolei, Ewa, Oahu, Hawaii				
DATE: September 2005					PROJECT NO.: 24307.11				

PLATE NO. 10

BORING LOCATION: See Site Plan		DRILLER: PSC		BORING NO. B-9					
BORING ELEVATION:		LOGGED BY: B. Anderson							
DATE (S) DRILLED: 8/21/05		TYPE RIG: Diedrich (D-25)							
OTHER LAB TESTS	DRY UNIT WEIGHT (pcf)	MOISTURE CONTENT (%)	CORE RECOVERY (%)	R.O.D. (%)	NUMBER OF BLOWS/1'2'	DEPTH IN FEET	GRAPHIC SYMBOL	U.S.C.S.	GEOTECHNICAL DESCRIPTION
		18.4			34	1	CH		Silly CLAY, (v. weathered volcanic tuff), brown, dry, v. stiff, with roots
						2	CH		
						3	CH		Silly CLAY, tr. sand (v. weathered volcanic tuff), brown, damp, hard
						4	CH		
						5	CH		
						6	CH		
						7	CH		
						8	CH		
						9	CH		
						10	CH		Silly CLAY, tr. sand (v. weathered volcanic tuff), brown with black, orange spots, damp, v. hard
						11	CH		
						12	CH		
						13	CH		
						14	CH		
						15	CH		
		20.3			55	16	CH		Silly CLAY, tr. sand (v. weathered volcanic tuff), brown with black, orange spots, damp, v. hard
						17	CH		
						18	CH		
Boring terminated at about 16.5 feet Groundwater was not encountered									
SAMPLE TYPE					OTHER LABORATORY TESTS				
MC - Modified California	SPT - Standard Penetration	MD - Moisture/Density	UC - Unconfined Compression						
CB - Core Barrel	SH - Shelby Tube	CON - Consolidation Test	SG - Specific Gravity						
AUG - Auger Cuttings	D&M - Dames & Moore	PI - Atterberg Limits	SA - Sieve Analysis						
LOG OF BORING					LOG OF BORING				
Geotechnical & Environmental Consultants Construction Management, Testing & Inspection					E. Kapolei Parcel "B", Offsite Improvements Water and Sewage Transmission Mains Kapolei, Ewa, Oahu, Hawaii				
DATE: September 2005					PROJECT NO.: 24307.11				

PLATE NO. 11

BORING LOCATION: See Site Plan		DRILLER: PSC		BORING NO. B-10					
BORING ELEVATION:		LOGGED BY: B. Anderson							
DATE (S) DRILLED: 8/27/05		TYPE RIG: Diedrich (D-25)							
OTHER LAB TESTS	DRY UNIT WEIGHT (pcf)	MOISTURE CONTENT (%)	CORE RECOVERY (%)	R.O.D. (%)	NUMBER OF BLOWS/1'2'	DEPTH IN FEET	GRAPHIC SYMBOL	U.S.C.S.	GEOTECHNICAL DESCRIPTION
					32	1	CH		Silly CLAY, brown, dry grades downward to damp, v. stiff, with roots
						2	CH		
						3	CH		Silly CLAY, tr. sand (v. weathered volcanic tuff), brown with white stains in fissures (agricultural chemicals), damp, hard
						4	CH		
						5	CH		
						6	CH		
						7	CH		
						8	CH		Silly CLAY, tr. sand (v. weathered volcanic tuff), damp, stiff
						9	CH		
		23.3			21	10	CH		Silly CLAY, tr. sand (v. weathered volcanic tuff), brown with black and orange specks, damp, v. hard
						11	CH		
						12	CH		
						13	CH		
						14	CH		
						15	CH		Silly CLAY, tr. sand (v. weathered volcanic tuff), brown and white specks, damp, v. stiff
						16	CH		
						17	CH		
						18	CH		
						19	CH		
						20	CH		
		20.9			26	21	CH		Silly CLAY, tr. sand (v. weathered volcanic tuff), brown and white specks, damp, v. stiff
						22	CH		
						23	CH		
						24	CH		
						25	CH		
		22.6			25	26	CH		Silly CLAY, tr. sand (v. weathered volcanic tuff), brown and white specks, damp, v. stiff
						27	CH		
						28	CH		
						29	CH		
						30	CH		
						31	CH		
						32	CH		
Boring terminated at about 21.5 feet Groundwater not encountered									
SAMPLE TYPE					OTHER LABORATORY TESTS				
MC - Modified California	SPT - Standard Penetration	MD - Moisture/Density	UC - Unconfined Compression						
CB - Core Barrel	SH - Shelby Tube	CON - Consolidation Test	SG - Specific Gravity						
AUG - Auger Cuttings	D&M - Dames & Moore	PI - Atterberg Limits	SA - Sieve Analysis						
LOG OF BORING					LOG OF BORING				
Geotechnical & Environmental Consultants Construction Management, Testing & Inspection					E. Kapolei Parcel "B", Offsite Improvements Water and Sewage Transmission Mains Kapolei, Ewa, Oahu, Hawaii				
DATE: September 2005					PROJECT NO.: 24307.11				

PLATE NO. 12

BORING LOCATION: See Site Plan		DRILLER: PSC		BORING NO. B-11					
BORING ELEVATION:		LOGGED BY: B. Anderson							
DATE (S) DRILLED: 8/21/05		TYPE RIG: Diedrich (D-25)							
OTHER LAB TESTS	DRY UNIT WEIGHT (pcf)	MOISTURE CONTENT (%)	CORE RECOVERY (%)	R.O.D. (%)	NUMBER OF BLOWS/1'2'	DEPTH IN FEET	GRAPHIC SYMBOL	U.S.C.S.	GEOTECHNICAL DESCRIPTION
					36	1	CH		Silly CLAY, brown, dry, v. stiff, with roots
						2	CH		
						3	CH		Silly CLAY, tr. sand (v. weathered volcanic tuff), brown, damp, hard
						4	CH		
						5	CH		
						6	CH		
						7	CH		
						8	CH		
						9	CH		
						10	CH		Silly CLAY, tr. sand (v. weathered volcanic tuff), brown with black and orange specks, damp, v. hard
						11	CH		
						12	CH		
						13	CH		
						14	CH		
						15	CH		Silly CLAY, tr. sand (v. weathered volcanic tuff with sand-size coral fragments), brown with black and white specks, damp, v. hard
						16	CH		
						17	CH		
						18	CH		
Boring terminated at about 16.5 feet Groundwater not encountered									
SAMPLE TYPE					OTHER LABORATORY TESTS				
MC - Modified California	SPT - Standard Penetration	MD - Moisture/Density	UC - Unconfined Compression						
CB - Core Barrel	SH - Shelby Tube	CON - Consolidation Test	SG - Specific Gravity						
AUG - Auger Cuttings	D&M - Dames & Moore	PI - Atterberg Limits	SA - Sieve Analysis						
LOG OF BORING					LOG OF BORING				
Geotechnical & Environmental Consultants Construction Management, Testing & Inspection					E. Kapolei Parcel "B", Offsite Improvements Water and Sewage Transmission Mains Kapolei, Ewa, Oahu, Hawaii				
DATE: September 2005					PROJECT NO.: 24307.11				

PLATE NO. 13

BORING LOCATION: See Site Plan		DRILLER: PSC		BORING NO. B-12					
BORING ELEVATION:		LOGGED BY: B. Anderson							
DATE (S) DRILLED: 8/21/05		TYPE RIG: Diedrich (D-25)							
OTHER LAB TESTS	DRY UNIT WEIGHT (pcf)	MOISTURE CONTENT (%)	CORE RECOVERY (%)	R.O.D. (%)	NUMBER OF BLOWS/1'2'	DEPTH IN FEET	GRAPHIC SYMBOL	U.S.C.S.	GEOTECHNICAL DESCRIPTION
		15.9			9	1	CH		Silly CLAY, brown, dry, soft (fluffy), with roots
						2	CH		
						3	CH		Silly CLAY, brown, damp, soft (fluffy)
						4	CH		
						5	CH		
						6	CH		
						7	CH		
						8	CH		
						9	CH		
						10	CH		
						11	CH		
						12	CH		
						13	CH		
						14	CH		
						15	CH		Silly CLAY, with a tr. of coral and luffaceous sand, ll. brown, damp, soft, (fluffy)
						16	CH		
						17	CH		
						18	CH		
						19	CH		
						20	CH		
						21	CH		
						22	CH		
						23	CH		
						24	CH		
Coralline rock in tip (1") of sampler Boring terminated at about 20.5 feet Groundwater not encountered									
SAMPLE TYPE					OTHER LABORATORY TESTS				
MC - Modified California	SPT - Standard Penetration	MD - Moisture/Density	UC - Unconfined Compression						
CB - Core Barrel	SH - Shelby Tube	CON - Consolidation Test	SG - Specific Gravity						
AUG - Auger Cuttings	D&M - Dames & Moore	PI - Atterberg Limits	SA - Sieve Analysis						
LOG OF BORING					LOG OF BORING				
Geotechnical & Environmental Consultants Construction Management, Testing & Inspection					E. Kapolei Parcel "B", Offsite Improvements Water and Sewage Transmission Mains Kapolei, Ewa, Oahu, Hawaii				
DATE: September 2005					PROJECT NO.: 24307.11				

PLATE NO. 14

BORING LOCATION: See Site Plan		DRILLER: PSC		BORING NO. B-13					
BORING ELEVATION:		LOGGED BY: B. Anderson							
DATE (S) DRILLED: 8/28/05		TYPE RIG: Diedrich (D-25)							
OTHER LAB TESTS	DRY UNIT WEIGHT (pcf)	MOISTURE CONTENT (%)	CORE RECOVERY (%)	R.O.D. (%)	NUMBER OF BLOWS/1'2'	DEPTH IN FEET	GRAPHIC SYMBOL	U.S.C.S.	GEOTECHNICAL DESCRIPTION
					13	1	CH		Silly CLAY, brown, damp, stiff, with roots
						2	CH		
						3	CH		
						4	CH		
						5	CH		
						6	CH		
						7	CH		
						8	CH		

BORING LOCATION: See Site Plan										DRILLER: PSC		BORING NO. B-15	
BORING ELEVATION:										LOGGED BY: B. Anderson			
DATE (S) DRILLED: 8/21/04										TYPE RIG: Diedrich (D-25)			
OTHER LAB TESTS	DRY UNIT WEIGHT (pcf)	MOISTURE CONTENT (%)	CORE RECOVERY (%)	R.O.D. (%)	NUMBER OF BLOWS/12"	SAMPLE NUMBER	DEPTH IN FEET	GRAPHIC SYMBOL	U.S.C.S.	GEOTECHNICAL DESCRIPTION			
							1	CH		Silly CLAY, brown, dry, stiff, with roots			
							2						
							3						
							4						
	20.5						5	SPT-1		Silly CLAY, brown, damp, v. stiff			
							6						
							7						
							8						
							9						
	21.3						10	SPT-2					
							11						
							12						
							13						
							14			Silly CLAY, fr. of sand (v. weathered volcanic tuff), brown, damp, v. hard			
	19.1						15	SPT-3					
							16						
							17			Terminated boring at about 16.5 feet Groundwater not encountered			
							18						
SAMPLE TYPE					OTHER LABORATORY TESTS								
MC - Modified California SPT - Standard Penetration					MD - Moisture/Density					UC - Unconfined Compression			
CB - Core Barrel SH - Shelby Tube					CON - Consolidation Test					SG - Specific Gravity			
AUG - Auger Cuttings D&M - Dames & Moore					PI - Atterberg Limits					SA - Sieve Analysis			
LOG OF BORING										E. Kapolei Parcel "B", Offsite Improvements Water and Sewage Transmission Mains Kapolei, Ewa, Oahu, Hawaii			
Geotechnical & Environmental Construction Management, Testing & Inspection										DATE: September 2005 PROJECT NO.: 24307.11			

PLATE NO. 17

BORING LOCATION: See Site Plan										DRILLER: PSC		BORING NO. B-16	
BORING ELEVATION:										LOGGED BY: B. Anderson			
DATE (S) DRILLED: 9/4/05										TYPE RIG: Diedrich (D-25)			
OTHER LAB TESTS	DRY UNIT WEIGHT (pcf)	MOISTURE CONTENT (%)	CORE RECOVERY (%)	R.O.D. (%)	NUMBER OF BLOWS/12"	SAMPLE NUMBER	DEPTH IN FEET	GRAPHIC SYMBOL	U.S.C.S.	GEOTECHNICAL DESCRIPTION			
							1	CH		Silly CLAY, brown, dry, stiff, with roots			
							2						
							3						
							4						
							5	SPT-1		Silly CLAY, brown, damp, v. stiff			
							6						
							7						
							8						
							9						
							10	SPT-2					
							11						
							12						
							13						
							14			Silly CLAY, fr. sand (v. weathered volcanic tuff), brown, damp, v. hard			
	23.0						15	SPT-3					
							16						
							17			Terminated boring at about 16.5 feet Groundwater not encountered			
							18						
SAMPLE TYPE					OTHER LABORATORY TESTS								
MC - Modified California SPT - Standard Penetration					MD - Moisture/Density					UC - Unconfined Compression			
CB - Core Barrel SH - Shelby Tube					CON - Consolidation Test					SG - Specific Gravity			
AUG - Auger Cuttings D&M - Dames & Moore					PI - Atterberg Limits					SA - Sieve Analysis			
LOG OF BORING										E. Kapolei Parcel "B", Offsite Improvements Water and Sewage Transmission Mains Kapolei, Ewa, Oahu, Hawaii			
Geotechnical & Environmental Construction Management, Testing & Inspection										DATE: September 2005 PROJECT NO.: 24307.11			

PLATE NO. 18

BORING LOCATION: See Site Plan										DRILLER: PSC		BORING NO. B-17	
BORING ELEVATION:										LOGGED BY: B. Anderson			
DATE (S) DRILLED: 9/4/05										TYPE RIG: Diedrich (D-25)			
OTHER LAB TESTS	DRY UNIT WEIGHT (pcf)	MOISTURE CONTENT (%)	CORE RECOVERY (%)	R.O.D. (%)	NUMBER OF BLOWS/12"	SAMPLE NUMBER	DEPTH IN FEET	GRAPHIC SYMBOL	U.S.C.S.	GEOTECHNICAL DESCRIPTION			
							1	CH		Silly CLAY, brown, dry, stiff, w. roots			
							2			CORALLINE FORMATION, weakly cemented, cream colored, dry			
							3						
							4						
							5	SPT-1		Silly CLAY, brown, damp, v. stiff			
							6						
							7						
							8						
							9						
							10	SPT-2					
							11						
							12						
							13						
							14						
							15	SPT-3		CORALLINE FORMATION, weakly cemented, cream colored, dry			
	17.2						16						
							17						
							18			Terminated boring at about 16.5 feet Groundwater not encountered			
SAMPLE TYPE					OTHER LABORATORY TESTS								
MC - Modified California SPT - Standard Penetration					MD - Moisture/Density					UC - Unconfined Compression			
CB - Core Barrel SH - Shelby Tube					CON - Consolidation Test					SG - Specific Gravity			
AUG - Auger Cuttings D&M - Dames & Moore					PI - Atterberg Limits					SA - Sieve Analysis			
LOG OF BORING										E. Kapolei Parcel "B", Offsite Improvements Water and Sewage Transmission Mains Kapolei, Ewa, Oahu, Hawaii			
Geotechnical & Environmental Construction Management, Testing & Inspection										DATE: September 2005 PROJECT NO.: 24307.11			

PLATE NO. 19

BORING LOCATION: See Site Plan										DRILLER: PSC		BORING NO. B-18	
BORING ELEVATION:										LOGGED BY: B. Anderson			
DATE (S) DRILLED: 9/4/05										TYPE RIG: Diedrich (D-25)			
OTHER LAB TESTS	DRY UNIT WEIGHT (pcf)	MOISTURE CONTENT (%)	CORE RECOVERY (%)	R.O.D. (%)	NUMBER OF BLOWS/12"	SAMPLE NUMBER	DEPTH IN FEET	GRAPHIC SYMBOL	U.S.C.S.	GEOTECHNICAL DESCRIPTION			
							1	CH		Silly CLAY, brown, dry, stiff, with roots			
							2						
							3						
							4						
							5	SPT-1		Silly CLAY, brown, damp, v. stiff			
							6						
							7						
							8						
							9						
							10	SPT-2					
							11						
							12						
							13						
							14						
							15	SPT-3		CORALLINE FORMATION, weakly cemented, cream colored, dry			
	20.8						16						
							17						
							18			Terminated boring at about 16.5 feet Groundwater not encountered			
SAMPLE TYPE					OTHER LABORATORY TESTS								
MC - Modified California SPT - Standard Penetration					MD - Moisture/Density					UC - Unconfined Compression			
CB - Core Barrel SH - Shelby Tube					CON - Consolidation Test					SG - Specific Gravity			
AUG - Auger Cuttings D&M - Dames & Moore					PI - Atterberg Limits					SA - Sieve Analysis			
LOG OF BORING										E. Kapolei Parcel "B", Offsite Improvements Water and Sewage Transmission Mains Kapolei, Ewa, Oahu, Hawaii			
Geotechnical & Environmental Construction Management, Testing & Inspection										DATE: September 2005 PROJECT NO.: 24307.11			

PLATE NO. 20

BORING LOCATION: See Site Plan										DRILLER: PSC		BORING NO. B-19	
BORING ELEVATION:										LOGGED BY: B. Anderson			
DATE (S) DRILLED: 9/4/05										TYPE RIG: Diedrich (D-25)			
OTHER LAB TESTS	DRY UNIT WEIGHT (pcf)	MOISTURE CONTENT (%)	CORE RECOVERY (%)	R.O.D. (%)	NUMBER OF BLOWS/12"	SAMPLE NUMBER	DEPTH IN FEET	GRAPHIC SYMBOL	U.S.C.S.	GEOTECHNICAL DESCRIPTION			
							1	CH		Silly CLAY, with coralline sand and gravel (fill)			
							2						
							3						
							4						
	11.5						5	SPT-1		CORALLINE FORMATION, weakly cemented, cream colored, dry			
							6						
							7						
							8						
							9						
							10	SPT-2					
							11						
							12						
							13						
							14						
							15	SPT-3					
							16						
							17						
							18						
							19						
							20	SPT-4		CORALLINE FORMATION, with gravel-sized coral fragments. It also contains brown silty CLAY auger cuttings, and brown silty, clayey drilling water. This mixture may be due to infiltration of drilling cuttings and water into solution cavities before the SPT sample was taken.			
	29.5						21						
							22						
							23			Terminated boring at about 21.5 feet Groundwater not encountered			
							24						
SAMPLE TYPE					OTHER LABORATORY TESTS								
MC - Modified California SPT - Standard Penetration					MD - Moisture/Density					UC - Unconfined Compression			
CB - Core Barrel SH - Shelby Tube					CON - Consolidation Test					SG - Specific Gravity			
AUG - Auger Cuttings D&M - Dames & Moore					PI - Atterberg Limits					SA - Sieve Analysis			
LOG OF BORING										E. Kapolei Parcel "B", Offsite Improvements Water and Sewage Transmission Mains Kapolei, Ewa, Oahu, Hawaii			
Geotechnical & Environmental Construction Management, Testing & Inspection										DATE: September 2005 PROJECT NO.: 24307.11			

PLATE NO. 21

BORING LOCATION: See Site Plan										DRILLER: PSC		BORING NO. B-20	
BORING ELEVATION:										LOGGED BY: B. Anderson			
DATE (S) DRILLED: 9/4/05										TYPE RIG: Diedrich (D-25)			
OTHER LAB TESTS	DRY UNIT WEIGHT (pcf)	MOISTURE CONTENT (%)	CORE RECOVERY (%)	R.O.D. (%)	NUMBER OF BLOWS/12"	SAMPLE NUMBER	DEPTH IN FEET	GRAPHIC SYMBOL	U.S.C.S.	GEOTECHNICAL DESCRIPTION			
							1			CORALLINE FORMATION, weakly cemented, cream colored, dry			
							2						
							3						
							4						
							5	SPT-1					
							6						
							7	SPT-2					
							8						
							9						
							10						
							11						
							12						
							13						
							14						
							15	SPT-3					
							16						
							17						
							18						
							19						
							20	SPT-4					
	13.3						21						
							22						