		L	OC	G C	F	Tl	ES'	Т Т	R	EN		H	T-2	2			Cal SPT ST	Modified Standard I Shelby Tu	Californ Penetrati		CK C	est Legeno nunk Density ensity Ring	1_
	Logg Exist	Logged: ed By: ing Elev h Elevat	ation:		8/5/15 DJF 1310 fe 1310 fe	et			Aı Dı	juipme iger Ty rive Ty epth to	/pe: pe:	:	Case 58 N/A 18-inch N/A				MD SO4 SA HA SE PI CP	Max Dens Soluble Su Sieve Ana Hydromet Sand Equi Plasticity Collapse I	ity lfates lysis ter valent Index		Con Co EI Ex R-Val Ro Chl Sc	rect Shear onsolidation pansion Index sistance Value luble Chlorid I & Resistivit	e es
DEPTH (ft)	ELEVATION (ft)	GRAPHIC LOG	USCS SYMBOL					ARY C									PENETRATION (blows per foot)	SAMPLE TYPE	BULK	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	RELATIVE COMPACTION (%)	LABORATORY TESTS
1			SM SM	Weat	lets.	Gran	nitics ((Kgr):	Light ;	grayish	-brow	n to re	eddish-	brown	, damp	ous with							R-Val
3-4-5-								d at 5 fe															
6				eepage e		itered.																	
9																							
11																							
13—																							
Not	es:																						
\ <u>\</u>	, , •	Groun Groun	bol Lodwater	evel Du evel Aft	ring Dr	-						VALL	VALL EY CE	NTER	ENTER , CALI	R ROAD FORNL	A					P	
**		No Sar Non-R	nple Reco epresenta present)	overy	ow Cou	nt		DAT	ΓЕ:	SRI	GUS'	Г 2016	•	-	JOB N Figur	O.: RE NO.:	2150 : A-2	438		CH		N WHEE EERING	

		L	OC	3 O	F	ΤE	EST	T	RE	EN	CI	Ι	T-3	,			Cal SPT		Californ enetrati	ind Labo ia Sampler on Test	CK Cl	est Legend nunk Density ensity Ring	1_
	Logg Exist	Logged: ed By: ing Elev h Elevat	ation:	D 13	/5/15 DJF 309 fee 308 fee				Aug Driv	ipmen er Typ ve Typ oth to V	pe: pe:	1	Case 58 N/A 8-inch N/A		ackhoe eet		MD SO4 SA HA SE PI	Max Densi Soluble Su Sieve Anal Hydromet Sand Equi Plasticity I Collapse P	ty Ifates ysis er valent ndex		Con Co EI Ex R-Val Re Chl So	rect Shear onsolidation pansion Inder sistance Valua luble Chlorid I & Resistivit	e es
DEPTH (ft)	ELEVATION (ft)	GRAPHIC LOG	USCS SYMBOL										NDITIO Syster				PENETRATION (blows per foot)	SAMPLE TYPE	BULK	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	RELATIVE COMPACTION (%)	LABORATORY TESTS
0 1— 2— 3—			SM SC	Subsc	us.	own, o	damp, 1								D with gra	vels;		CK		5.8	121.6		
4— 4— 5—			SW- SM	dene,	fine- to	coar	se-grain	ned, W	ELL-G	ayish-b	prown ED SA	to re	eddish-b with SI	prowr LT.	a, damp, ve	ery							
8-								at 6 feet page en		red.													
10-																							
12— — —13—																							
14— 15— Not	es:																						
<u>_</u>	,	Ground	dwater L	egend	ing Dril	-							VALL	EY C	OAK ENTER RO								
\		Appare No San	nt Seepa nple Rec	overy				DATI	E:		GUST				JOB NO.:		21504	38		CH		N WHEE EERING	
**	τ	Non-R (rocks 1		ative Blov	w Coun	t		BY:		SRD					FIGURE 1	NO.:	A-3						

		L	OC	G O	F T	ES'	ГТ	'RE	EN(СН	T	4			ample T Modified C Standard Po Shelby Tub	Californ enetrati		CK Cl	est Legeno unk Density ensity Ring	<u>1</u>
	Logg Exist	Logged: ed By: ing Elev h Elevat	ation:	DJI 130	/15 F 2 feet 5 feet			Auge Driv	ipment: er Type ve Type: th to W	: :	Case 5 N/A 18-incl N/A		ackhoe set	MD SO4 SA	Max Densir Soluble Sul Sieve Analy Hydromete Sand Equiv Plasticity In Collapse Pe	ty fates vsis er ralent ndex		Con Co EI Ex R-Val Re Chl So	rect Shear onsolidation pansion Inder sistance Valua luble Chlorid I & Resistivit	es
DEPTH (ft)	ELEVATION (ft)	GRAPHIC LOG	USCS SYMBOL		s						ONDIT			PENETRATION (blows per foot)	SAMPLE TYPE	BULK	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	RELATIVE COMPACTION (%)	LABORATORY TESTS
0 1— 1— 2—			SM	Topsoi rootlet		n, dry, l	oose, fi	ne- to m	nedium-	-graineo	l, SILTY	SAN	D; porous with		CK		7.6	99.8		
3—			SC	Subsoil SAND	: Brown with cla	, moist, y and gr	mediui avels.	n dense	e, very f	ine- to	medium	-grain	ed, CLAYEY		CK		8.5	124.3		SA EI MD SO4 DS
5-			SW- SM	Weathe dene, fin	red Gra ne- to co	nitics (l arse-gra	Kgr): L ined, W	ight gra /ELL-G	ayish-br GRADE	own to	reddish D with S	-brow SILT.	n, damp, very		CK		3.2	140.0		SA MD DS
6-					ench teri undwate				red.											
7—																				
8-																				
9-																				
	-																			
10 —																				
11-	-																			
12-																				
13—																				
14-																				
15																				
Not	001											_				<u> </u>				
Not	CS:																			
\ \ \ \		Ground	dwater L	egend evel During evel After I	-	1			1		22 VAL	LEY C	? OAK Enter Road R, Californi	<u> </u>					8	, ,
• ((*			nt Seepa nple Reco	_	-		DAT	E:	AUG	UST 20	16		JOB NO.:	21504	-38		CH		N WHEE	
**	•		epresenta	ative Blow	Count		BY:		SRD				FIGURE NO.:	A-4				ENGIN	EERING	i

		L	OC	GOF	TEST	ſ TF	REN	CH	I T-:	5			Cal SPT	ample To Modified C Standard Pe Shelby Tub	aliforni netratio	ia Sampler	CK Ch	est Legeno unk Density nsity Ring	<u>1</u>
	Logge Existi	Logged: ed By: ng Elev: 1 Elevat:		8/5/15 DJF 1305 fee 1306 fee			Equipmen Auger Ty _l Drive Typ Depth to '	pe: pe:	Case 5 N/A 18-inch N/A				MD SO4 SA HA SE PI	Max Densit Soluble Sulf Sieve Analy Hydromete Sand Equiv Plasticity Ir Collapse Po	y ates sis r alent idex		Con Co EI Exp R-Val Res Chl Sol	rect Shear nsolidation pansion Inder sistance Value uble Chlorid & Resistivit	e es
DEPTH (ft)	ELEVATION (ft)	GRAPHIC LOG	USCS SYMBOL				SUBSURF ed Soil Cla						PENETRATION (blows per foot)	SAMPLE TYPE	BULK	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	RELATIVE COMPACTION (%)	LABORATORY TESTS
2-			SM SC			d, SILTY	SAND wit	h AC d	ebris and	gravel	S.			CK		4.4	130.4		R-Val
5 —			SW- SM	Weathered fine- to coar	se-grained,	WELL-GR				vn, dan	np, very de	ense,							
7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - Note	es:				terminated water or see		untered.												
				egend					SI	HADY	OAK								
<u>□</u>	, -	Ground Appare	lwater Le nt Seepaş		-	DATE:	AUC		LLEY CE	ENTER	ENTER RO R, CALIFO JOB NO.:	RNIA	21504	38		CH	IR ISTIAN	S WHEE	LER
*		Non-R	nple Reco epresenta oresent)	overy tive Blow Cour	ıt	BY:	SRD				FIGURE 1		A-5			-		EERING	

	LOC	OF TES	T TRENCH	I T-6		Cal SPT	Modified Cal Standard Pen	pe and Labo ifornia Sampler etration Test	CK Cl	est Legeno nunk Density ensity Ring	<u>1</u>
		8/5/15 DJF 1306 feet 1309 feet	Equipment: Auger Type: Drive Type: Depth to Water:	Case 580L B N/A 18-inch Buck N/A		MD SO4 SA HA SE PI	Shelby Tube Max Density Soluble Sulfat Sieve Analysis Hydrometer Sand Equivale Plasticity Inde Collapse Pote	tes s ent ex	Con Co EI Ex R-Val Re Chl So	irect Shear onsolidation spansion Index esistance Value luble Chloride I & Resistivity	es
DEPTH (ft) ELEVATION (ft)	GRAPHIC LOG USCS SYMBOL		IARY OF SUBSURFACE C d on Unified Soil Classificat		3	PENETRATION (blows per foot)	SAMPLE TYPE	BULK MOISTURE CONTENT (%)	DRY DENSITY (pcf)	RELATIVE COMPACTION (%)	LABORATORY TESTS
2	SC SW-SM	Subsoil: Light grayish SAND with gravels. Weathered Granitics		np, medium de	ense, CLAYEY	DE CONTRACTOR OF THE CONTRACTO	SAS			RE CC	LA TE
13											
Notes:											
<u>▼</u> 0	Groundwater L	evel During Drilling evel After Drilling	l .		Y OAK Center Road R, California						<u>, , , , , , , , , , , , , , , , , , , </u>
* 1 ** 1	Apparent Seepa No Sample Reco Non-Representa rocks present)	=	DATE: AUGUST 2 BY: SRD	016	JOB NO.: FIGURE NO.:	215043 A-6	38	CH		N WHEEI LEERING	

		L	OC	6 O	FΤ	ES	ΓТ	RE	NC	H	T-7			Cal SPT	umple T Modified C Standard Pe Shelby Tub	aliforn		CK Cl	est Legeno nunk Density ensity Ring	
	Logge Existi	Logged: ed By: ing Elev h Elevat	ation:	D 13	/5/15 JF 311 feet 307 feet			Drive	oment: r Type: · Type: 1 to Wate		Case 580 N/A 18-inch I N/A	L Backhoe Bucket	:	MD SO4 SA HA SE PI	Max Densit Soluble Suli Sieve Analy Hydromete Sand Equiv Plasticity Ir Collapse Po	y fates vsis er alent ndex		Con Co EI Ex R-Val Re Chl So	irect Shear onsolidation pansion Inde esistance Valu- luble Chlorid I & Resistivit	e es
DEPTH (ft)	ELEVATION (ft)	GRAPHIC LOG	USCS SYMBOL		:				URFACI l Classifi					PENETRATION (blows per foot)	SAMPLE TYPE	BULK	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	RELATIVE COMPACTION (%)	LABORATORY TESTS
0 1— 2— 3— 4— 5—			SM SM SW- SM	Topso porou. Weath dense,	il: Brows	n, damp, nnitics (K	Y SANI loose, v Kgr): Li se-grain	D with g	ish-brow L-GRAI	trace um-gr	AC debi	LTY SANI								
- 6																				
11																				
14— 15— Not	es:																			
\		Ground Ground Appare No Sar	dwater Le dwater Le ent Seepa nple Reco	evel After ge overy	ng Drillin Drilling	3	DAT		AUGUS	VALL	2 VALLE EY CEN	ADY OAK Y CENTE ITER, CAL	R ROAD LIFORNIA NO.:	215043	38		CH		N WHEE	
**	·		epresenta oresent)	tive Blov	v Count		BY:		SRD			FIGU	RE NO.:	A-7						

		L	00	G O	F T	ES'	ΓТ	RE	N	CH	ΙI	-8			Cal SPT ST		Califori Penetrat	and Labo nia Sampler ion Test	CK Cl	est Legeno unk Density ensity Ring	1
	Logg Exist	Logged: ed By: ing Elev h Elevat	ation:	DJ 13:	5/15 F 11 feet 10 feet			Auge Drive	oment r Type e Type h to W	e: ::	N/	'A inch B	. Backh	oe	MD SO4 SA HA SE PI CP	Max Den Soluble S Sieve An	sity ulfates alysis eter ivalent Index	L	Con Co EI Ex R-Val Re Chl So	rect Shear onsolidation pansion Inde sistance Valu luble Chlorid I & Resistivit	es
DEPTH (ft)	ELEVATION (ft)	GRAPHIC LOG	USCS SYMBOL		s	UMMA (based	ARY OI on Uni						NS		PENETRATION (blows per foot)	SAMPLE TYPE	BULK	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	RELATIVE COMPACTION (%)	LABORATORY TESTS
0			SM	Topso porou	il: Browi	n, dry, v	ery loo	se, very	fine- t	o med	ium g	rained,	SILTY	SAND;							
1-			SM		: Brown with CL				very f	ine- to	medi	um-gra	ined, SI	ILTY							
3-4-			SW- SM	Weather dense, f	ered Gran	nitics (F	(gr): Li ained, S	ight gray	vish-br AND;	own to	o redd	ish-broweathe	own, dan	mp, very		CK		2.2	116.7		
5-6-					ench terr oundwat				ed.												
7—																					
8-																					
9-																					
11-																					
12—																					
13																					
14—																					
15 —																					
Not	es:																	1		1	
\ <u>\</u>	,	Groun	dwater L	egend evel Durin evel After	-							ALLEY		K TER ROA Aliforn						8	, ,
*			ent Seepa nple Reco	-	-		DAT:	E:	AUG	UST 2	016		JOB	3 NO.:	2150)438		CH		N WHEE	
**	k	Non-R	•	ative Blow	Count		BY:		SRD				FIG	URE NO).: A-8				ENGIN	LEKIN (1

		L	OC	G O	F T	ES]	ΓТ	REI	NCI	Η '	T-9			Cal SPT	umple T Modified C Standard Pe Shelby Tub	aliforn		CK Cl	est Legeno nunk Density ensity Ring	1_
	Logge Existi	Logged: ed By: ing Elev h Elevat	ation:	DJ 129	5/15 F 96 feet 02 feet			Equipm Auger ' Drive ' Depth	Туре:	1	Case 580L N/A 8-inch Bu N/A			MD SO4 SA SA SE SE SE	Max Densit Soluble Suli Sieve Analy Hydromete Sand Equiv Plasticity Ir Collapse Pc	y fates vsis er alent udex		Con Co EI Ex R-Val Re Chl So	rect Shear onsolidation pansion Inder sistance Value luble Chlorid I & Resistivit	e es
DEPTH (ft)	ELEVATION (ft)	GRAPHIC LOG	USCS SYMBOL		S			F SUBSU			NDITION System)	īS		PENETRATION (blows per foot)	SAMPLE TYPE	BULK	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	RELATIVE COMPACTION (%)	LABORATORY TESTS
0 1— 2— 3— 4—			SM SM SW- SM	Subsoi Weathe	s with ro	damp,	mediun	n dense, S.	ILTY SA	ND v	with CLA	Y and grave	els.							
5 — 6 — 7 — 8 — 9 — 9 — 9 — 9 — 9 — 9 — 9 — 9 — 9					ench ternoundwate			t . countered	i.											
10-																				
12-																				
14— ———————————————————————————————————																				
Not	es:																			
\ <u>\</u>		Groun Groun	dwater Lo dwater Lo	egend evel Durin							VALLEY	OY OAK CENTER I ER, CALIF							F	
7 (* **		No Sai Non-R	ent Seepaq nple Reco epresenta present)		Count		DATI BY:		UGUST RD	2016		JOB NC		215043 A-9	38		CH		N WHEE EERING	

Appendix B

Laboratory Test Results