



December 17, 2012

Mr. Rick Angrisani Oakhurst Geologic Hazard Abatement District 6000 Heritage Trail Clayton, CA 94517

Re: Geotechnical Observation and Testing – Final Report

Kelok Way Dewatering Wells, Clayton, CA

SFB Project No.: 555-1

Mr. Angrisani:

In accordance with the project requirements, Stevens, Ferrone & Bailey Engineering Company, Inc. (SFB) provided geotechnical observation and testing services during construction of six Kelok Way dewatering wells and associated outlet pipes located in Clayton, California. The project's construction plans and specifications were initially prepared by SFB in August, 2011, and submitted for review to Cal Engineering & Geology, Applied GeoKinetics, and the Oakhurst Geologic Hazard Abatement District. Modifications to the original construction details and specifications were made by SFB as specified by the reviewers after all reviews were completed, and the final set of plans was dated November 10, 2011. During construction, the project's general contactor was Engineered Soil Repairs, Inc. (ESR), the well contractor was Pacific Coast Drilling Co., Inc. (PCDC), and the outlet pipe contractor was Cross Country HDI (Cross Country). The purpose of the construction of the dewatering wells and associated outlet pipes is to lower ground water levels below Kelok Way in the area between 8002 and 8006 Kelok Way.

#### 1.0 SCOPE OF SERVICES

Our scope of services included part-time geotechnical observation and testing during the following operations between August 21, 2012 and November 15, 2012 to verify that the observed construction was completed in general conformance with the geotechnical aspects of the Kelok Way Dewatering Wells plans and specifications:

- Site preparation;
- Drilling and installation of dewatering wells and inclinometer casings;

- Placement and compaction of well cuttings;
- Drilling and installation of outlet pipes;
- Installation of a new collector box;
- Routing of outlet pipes into the new collector box;
- Installation of a storm drain pipe connecting the collector box to an existing catch basin; and
- Backfill and compaction of the horizontal drill pit.

### 2.0 Field Observation and Test Results

An as-built plan was prepared by ESR showing the approximate locations of the recently installed wells, discharge pipes, and collector box. The as-built plan also shows the surveyed locations of pre-existing inclinometers and piezometers. The new collector box was connected to a previously existing concrete catch basin using an 8-inch SDR-35 drain pipe. These features are shown on the attached Figure 1; the wells are shown on the figure as W-1 through W-6. A photo showing the locations of the well discharge pipes within the new collector box is attached as Figure 2. Appendix A includes copies of our field reports summarizing our observations during the construction of the dewatering wells and their associated discharge pipes. Appendix B includes laboratory and field compactions test results and copies of our field reports prepared during the backfilling of the horizontal drill pit and the placement of the collector box.

### 2.1 Dewatering Wells and Inclinometer Casings

Work for the drilling and installation of the six dewatering wells occurred between August 21 and September 11, 2012. The six dewatering wells were installed by PCDC under ESR's direction using a track-mounted IMT AF-18 drill rig equipped with 24-inch diameter flight auger and drill barrel. SHORE PAC polymer slurry was used during drilling of holes for Wells W-1, W-2, W-3, and W-4 to aid in stabilizing the shaft walls due to caving of native, fine-grained gray sands into the holes. No polymer slurry was used during drilling of holes for Wells W-5 and W-6 since nominal caving occurred in these holes. Well drilling cuttings were transported to the designated open space area shown on the plans; the cuttings were spread out, track-walked, and the final grade was sloped toward the surface swale located on the inboard side of the bench.

We observed blank and screened (0.032 inch slotted) 6-inch diameter PVC SDR 21 well casing pipe being installed in each of the well holes. Durham Geo Slope Indicator 2.75-inch diameter (70 mm) QC inclinometer casing was attached to the side of each of the well casings. During our observations, Caltrans Class 2 permeable material was installed in the annular space of the lower portion of the wells and inclinometer casings, and the annular space of the upper portion of the wells

and inclinometer casings was sealed with bentonite chips and 10 sack sand slurry. After the wells were constructed, SLURRY BUSTER was added by PCDC to the wells to break down remaining polymer slurry. After construction of the wells, the wells were purged numerous times by ESR using a pump system and compressed air equipment for the purpose of removing accumulated sediment and increasing flow rates.

Based on our observations, it is our opinion that the dewatering wells were constructed as summarized in the table below.

Summary of Observed Dewatering Well Construction					
Well Number	Total Well Casing Length (feet)	Blank Section (feet)	Screened Section (feet)	Bentonite and 10 sack Sand Slurry Section (thickness, in feet)	Caltrans Class 2 Permeable Material Section (thickness, in feet)
W-1	107	27	80	14	92
W-2	90	12	78	8	81
W-3	110	20	90	13	96
W-4	109	19	90	14	94
W-5	109	19	90	12	96
W-6	110	20	90	14	95

### 2.2 Horizontal Drain Outlet Pipes

Work for the drilling and installation of the six horizontal drain pipes occurred between September 17 and October 29, 2012. Prior to the drilling, ESR prepared a pit located at the pipe discharge points to be used by the drilling equipment. Six horizontal drain outlet pipes were installed by Cross Country using a Ditch Witch JT4020 horizontal directional drill rig with 4-inch diameter steel drill rods. The drill guiding system was provided by INROCK. Horizontal drain drilling cuttings were collected and disposed offsite. During our observations, 2-inch diameter PVC Schedule 80 drain

outlet pipes were installed in each of the drain holes. Native, fine-grained silty sands (gray in color with slight sulfur odor) initially plugged the outlet pipes for Wells W-1, W-2, W-3, and W-4. The sands were drilled and flushed out of the pipes over a period of about 1 to 2 weeks, both during and after the horizontal pipe drilling and installation.

Based on our observations, it is our opinion that the horizontal drain outlet pipes were constructed as summarized in the table below.

Summary of Horizontal Drain Outlet Pipes Construction				
Drain Number	Approximate Drain Pipe Length (feet)*	Approximate Depth in Well Where Outlet Pipe Intercepts Well (feet below ground surface)*		
W#1	396	90		
W#2	356	81		
W#3	351	81		
W#4	348	81		
W#5	335	81		
W#6	330	81		

<sup>\*</sup>Information provided by INROCK and Cross Country.

After the completion of the horizontal drain pipe installation, ESR continued flushing the finegrained sands from the outlet pipes in an effort to increase water flow.

#### 2.3 Collector Box and Horizontal Drill Pit

On November 9, 2012, we observed ESR routing the outlets of the six horizontal drain pipes to the new concrete collector box, and connecting the collector box to the existing concrete catch basin through a new 8-inch PVC pipe. A drain pipe that was installed during construction to collect slope seepage at the drill pit excavation was also permanently connected to the collector box. The locations of the pipes are shown in the attached Figure 2. The drain pipe installed to collect seepage is labeled as H#1 in Figure 2.

During the period from November 9 through November 15, 2012, we observed ESR backfilling the horizontal drilling pit. SFB specified that the fill materials to be used to backfill the horizontal drill pit be compacted to at least 90 percent relative compaction per ASTM D1557. SFB was onsite on a part-time basis to observe and test the compaction during the backfilling effort. It is our opinion that the backfill observed and tested by SFB was compacted to at least 90 percent relative compaction. Copies of our laboratory and field compaction test results are attached as Appendix B.

### 2.4 Water Levels Measured in Wells

Water levels in the six recently installed wells were measured by SFB prior to the installation of outlet pipes; at that time, the water levels varied between 11 and 27 feet below the Kelok Way pavement surface. On November 29, 2012 (after the installation of the horizontal outlet pipes), water levels within the six wells were measured at depths of about 22 to 86 feet below the pavement surface. A tabulated summary of the water level measurements is shown below.

Well Number	Approximate Water Level Depth Prior to Installing Outlet Pipe (feet below ground surface)	Approximate Water Level Depth on 11/29/12 (feet below ground surface)
W-1	11	22
W-2	20	37
W-3	21	26
W-4	21	26
W-5	24	83
W-6	27	86

### 3.0 Geotechnical Summary and Recommendations

On November 29, 2012, water levels were measured in each of the six wells. At that time, the water levels in Wells W-5 and W-6 were significantly lower when compared to the water levels prior to outlet pipe installation. Measured water levels in Wells W-1, W-2, W-3, and W-4 were also lower than levels prior to outlet pipe installation but did not decrease as much as the levels measured in W-

5 and W-6. On November 29, 2012, discharge from the drain pipes in the new collector box was also observed, with Drains W#5 and W#6 exhibiting a stream of water, Drain W#2 exhibiting a trickle of water, and the remaining drains showing dripping water. The cause of the lower flow rates is most likely related to the existence of the native fine sand in the area of the wells. As described previously, abundant native fine-grained, silty sand was encountered during the drilling of Wells W-1 through W-4 and their associated outlet pipes, but the fine sands were not encountered in significant quantities during the drilling of Wells W-5 and W-6 and their associated drain pipes. If these fine sands migrated into the Caltrans Class 2 permeable material surrounding the wells and/or the inlet of the drain pipes, the water flow from the wells to the drain pipes would be impeded. Water flows from the wells to the collector box can change over time as a result of several factors including changes in the subsurface conditions, ground water pressure, rainfall, and irrigation practices; therefore, water levels in the wells and flow rates in the drain pipes may increase or decrease over time.

We recommend regular maintenance of the recently installed drainage system include inspection and replacement of damaged well covers and caps, inspection of the collector box, and removal of debris from the collector box and associated storm drain pipe. If sediment accumulates in the wells, pumping of the sediment laden water can be performed in an effort to increase flow rates. We recommend the drainage system be made part of as-built plans in order to protect the system from potential construction related damage in the future.

Inclinometer casing was attached to each of the recently constructed wells for future inclinometer monitoring. The casing attached to the wells will likely experience some movement due to changes in water levels within the wells. These fluctuations should be accounted for during any future monitoring of the casing.

Monitoring of the existing piezometers and inclinometers in the areas of Kelok Way and the north facing slope located north of Kelok Way has occurred in the past. The approximate locations of many of the piezometers and inclinometers are shown on the attached Figure 1. We recommend the monitoring of the existing piezometers and inclinometers continue to occur, including monitoring the water levels in the Kelok Way wells and monitoring of the inclinometer casing attached to each well. After monitoring has occurred, we recommend geotechnical evaluations of the monitoring results be performed. We recommend several monitoring sessions be performed in order to evaluate noticeable trends in the monitoring data. It is unknown if the six recently installed Kelok Way dewatering wells and associated drainage system will have an impact on the general stability of the area unless the area is monitored and geotechnical evaluations are performed. It should not be assumed that the lowering of the ground water levels in the area of the six dewatering wells will reduce or stop future ground movements.

Stevens, Ferrone & Bailey Engineering Co., Inc. *Kelok Way Dewatering Wells*, 555-1.004 December 17, 2012

We have employed accepted geotechnical engineering and testing procedures and our professional opinions, conclusions, and recommendations are made in accordance with generally accepted geotechnical engineering principles and practices. We do not undertake the guarantee of the construction nor do we relieve the contractors of their primary responsibility to produce a completed project conforming to the project plans and specifications.

Should you have any questions or require additional information, please call our office.

Sincerely,

Stevens, Ferrone & Bailey Engineering Company, Inc.

Taiming Chen, P.E., G.E. *Civil/Geotechnical Engineer* 

Kenneth C. Ferrone, P.E., G.E., C.E.G. Civil/Geotechnical Engineer Certified Engineering Geologist





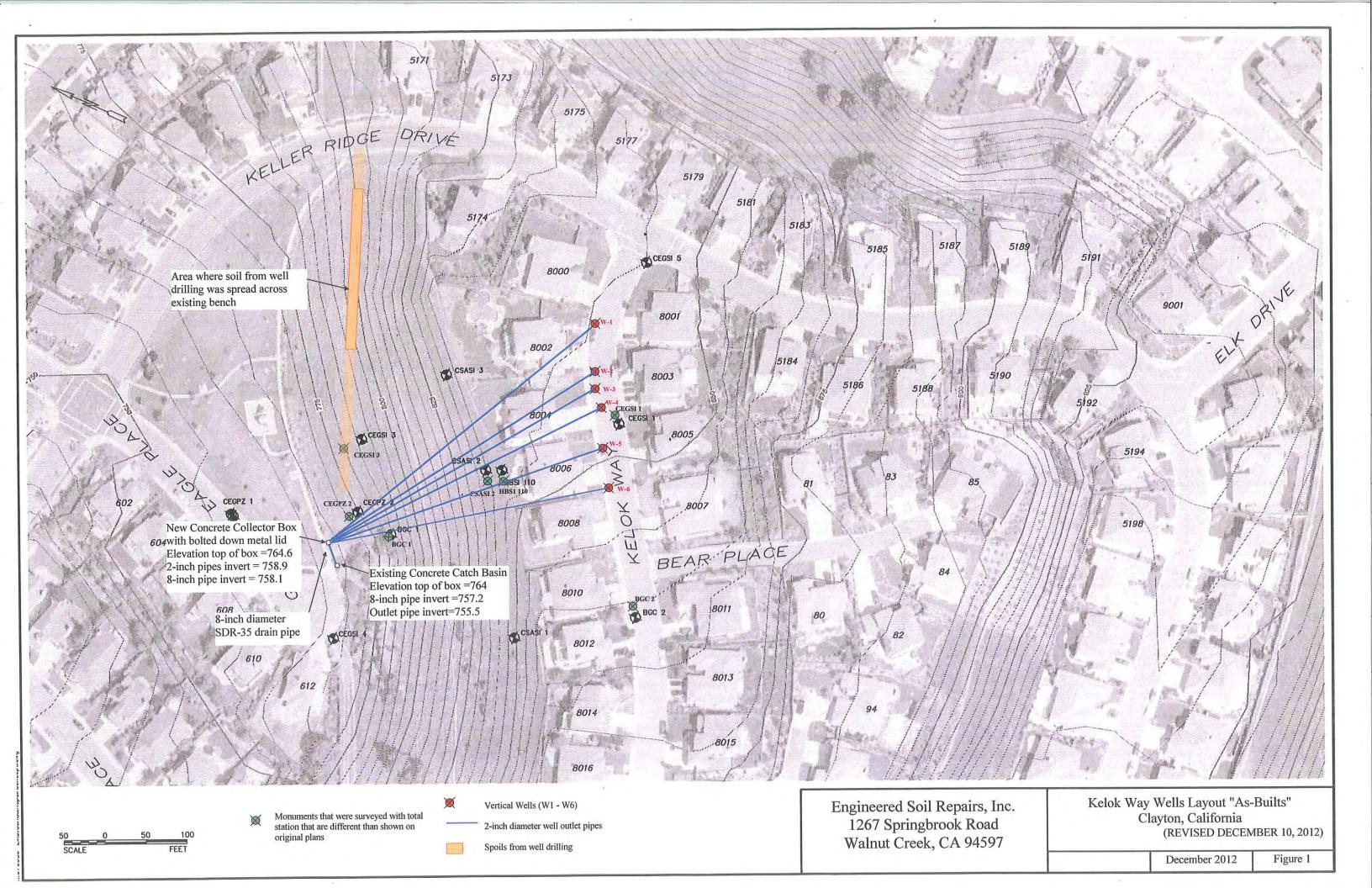


TC/KCF

Copies: Addressee (1 by email)

Mr. Bill Gibson (ESR, 1 by email)

Mr. John Broghammer (Greve Clifford Wengel & Paras, 1 by email)



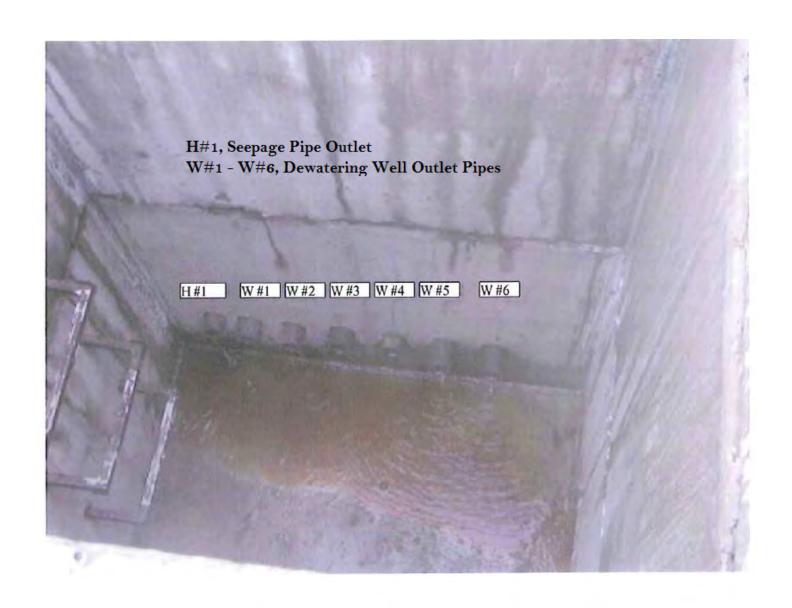
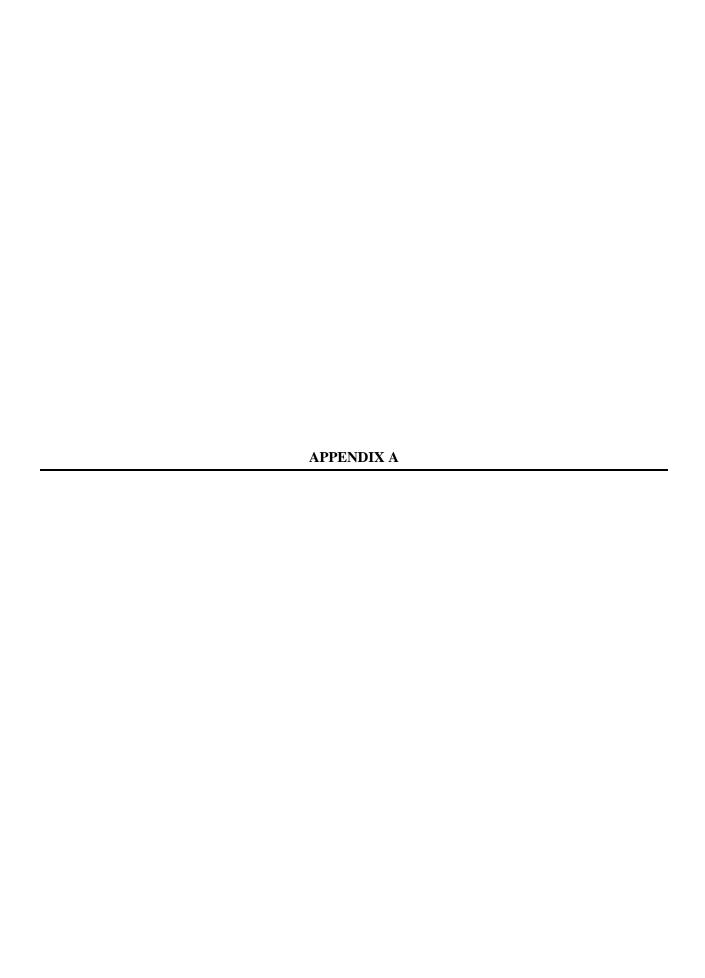


Figure 2, Photo of Collector Box Interior



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1600 Willow Pass Court Concord, CA 94520 TEL 925.688.1001 FAX 925.688.1005

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Kelok Way Dewatering Wells

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1600 Willow Pass Court Concord, CA 94520 TEL 925.688.1001

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### tevens, errone & 1600 Willow Pass Court Concord, CA 94520 TEL 925.688.1001 FAX 925.688.1005 Engineering Company, Inc.

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SIGNATURE:	: 6	PRINT N	AME: laimin	i Chen

PRINT NAME:

## crrone & 1600 Willow Pass Court Concord, CA 94520

TOTAL OF A 1600 Willow Peac Court	DATE 9/5/12 Wed	JOB NO. 555-1
errone & 1600 Willow Pass Court Concord, CA 94520	PROJECT	
TEL 925.688.1001 FAX 925.688,1005	Kelok Way De	watery Wells
Engineering Company, Inc.	I LOCATION '	CA
S F B Project Manager Ken Fewore	CONTRACTOR ESR / PCDC	OWNER OGHAD
Task Code3F2	WEATHER	TEMP. Oat AM
	Clear	° at PM
	PRESENT AT SITE  Mike of FSR	
THE FOLLOWING WAS NOTED:		
	Justin of pcs	٠८
onsite to observe dulling of dewatery well	1,	
9000 1 ( ( ) ) ( ) ( ) ( )	110	<b>A</b>
PCDC had timished drilling of well #16 in	Men 1 granud.	Accordy to
PCDC uns hole is dry and no appear	+ gonewater was	on countered.
They installed the 25 steel casing and de		
· · · · · · · · · · · · · · · · · · ·	•	
are generally day to damp. FIR also training	d repair of the	poken sewer
lateral in front of 8004 Kelok way, The	3'x6 repair excar	aring of abot
8 was backfilled with regard Class 2 143		
to at loast 15% Relative compaction. Son of	SFB theserved the b	pactilling and
tasted the compaction. Due to the prosents of		<u>-</u>
-		
will have to move. PCDC pastalled well carry a	ad inclinomore CASA	7 M Well #6
and fill the hole with Class. 2 perm. PCDC p	lulled up also steel	Well#E
casing and will dill well of to a new loc	ation thinks both how	TT
Dell' 4	7,000	Solid A
· · · · · · · · · · · · · · · · · · ·		201111
		46 95
		Service
	<u>,</u>	
COPIES TO:		
	LUSBY .	KEPORT
* '		
CIONATURE - C	NT NAME: Taiming	Chen
SIGNATURE: PRI	VI NAME: LA MAN	

JOB NO. 555-1

## Bailey Engineering Company, Inc.

1600 Willow Pass Court Concord, CA 94520 TEL 925.688.1001 FAX 925.688.1005

LOCATION	CA
CONTRACTOR	OWNER OGHAD
WEATHER	TEMP. oat AM
PRESENT AT SITE	
	· · · · · · · · · · · · · · · · · · ·
Justin of PC	oc
	iere at about
rown Sitty day.	Grow Warer wa
s metalled	to a droth of
Below as I	45 processedded
Mary brown sy	tory charge An
16.1	
•	
	•
	+ 48. Growlwork
lecided to about	don this hole and
	n sewer man 4
	to abandon the
Street between 2 sack gyd sand sluny	to abandon the
Street between 2 sack gyd sand sluny	to abandon the
Street between 2 sack gyd sand sluny	to abandon the
Street between 2 sack gyd sand sluny	to abandon the
Street between 2 sack gyd sand slung till all the w	Day up to the
Street between 2 sack gyd sand slung till all the w	to abandon the Day up to the
Street between 2 sack gyd sand slung till all the w	Day up to the
	Clayton, CONTRACTOR ESR/PCPC WEATHER Clear PRESENT AT SITE Mike of TS JUSTIN of PC  ATION. They w NOWN SITY clay. S MATERIAL AND ADMITS WISHER OC had to have Cove that the Hole IS about

DATE
9/6/12
PROJECT

Thu

Kelok Way Dewaring Wells

JOB NO. 555-/

## Stevens, errone & 1600 Willow Pass Court Concord, CA 94520

CIEVEIIS,	
	DATE 9/7/12 Fri JOB NO. 555-1
errone & 1600 Willow Pass Court Concord, CA 94520	
Tel 925.688.1001	
FAX 925.088.1005	Kelok Way Dewatery
Engineering Company, Inc.	===::::::::
SER Project Manager Ken Ferron-e	Clayton, CA CONTRACTOR OWNER
S F B Project Manager Ken Ferron-e	CONTRACTOR OWNER  ESR/PCOC OGHAD
Task Code 3 F 2	
Task Code 3 F 2	WEATHER TEMP. °at AM  Clear at PM
	PRESENT AT SITE
THE FOLLOWING WAS NOTED:	Mike of ESR
THE TOLLOWING WAS NOTED.	1.0000
	Justin of PCOC
Onsite to observe disting of dewatery well	
	$\epsilon$
#4. PCDC started a New location toward ?	the center of street. They
·	
are it about 20 when I arrived. Stack ca.	con was morelled to 25 Cutting
above 30 are generally dry to daip and ar	e days to month below 30 to 351
7 57 17 17 17	
Current consulty reference with mit brown Site of	Clare with Soils at a standard
Curry's generally indicated yellowith brown 500 collunia about 50° collunia Below 400, morded grown gry bighty	1 come day into
Collunia Relations of morried areas on his	y and some the pooks
No. dela de maria de la companya del la companya de	Crays A were a so accompand.
	100
Dry to daup constil dark gray sittstone frag s	were percounted below 65. John
calidre at 15 current	siny clays
calidre at 15. currys changed and back -	to yellowish bound with white
excaliche at 85 and were damp to mist.	THE pole started to cave in below
Go C AND PCDC	
90', PEDPCOC powed polymer in hole to sta	abilize it. Hole was at abit to
before they switched to drill barrel to clean	the hole, PCDC surtebrd between
,	
auger a dire barrel. Date gray sitry clays in	with gry Sondy 5:175 the WELL
encountered at 163. PCOC successatuly of	willed to about 111. Well & Inclinary
	J.
casys were Mstalled to 109. POOL will move	on to well #1
	sold T
on Monday.	
	90 911 Class
	Screen Per
	School
	Wellat
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	1211121L11)) 12(12121())12(11
· <del>/</del>	
	·
SIGNATURE: PRINT	NAME: Taiming Chen
FRINT	TWUVIL.

# Stevens, Ferrone & 1600 Willow Pass Court Concord, CA 94520 TEL 925.688.1001 FAX 925.688.1005

Concord, CA 94520	PROJECT	<u>, L</u>	
TEL 925.688.1001	Kelok Way Dewatery wells		
FAX 925.688.1005	LOCATION		
Engineering Company, Inc.	Clayton		
S F B Project Manager Ken Ferrone	CONTRACTOR	OWNER	
	ESR/PCDC	OGHAD	
Task Code 3F2	WEATHER Clear	TEMP, <sup>o</sup> at AM <sup>o</sup> at PM	
	PRESENT AT SITE	<u> </u>	
THE FOLLOWING WAS NOTED.	Mike of ESR		
THE FOLLOWING WAS NOTED:			
	Justin of pa	<u> </u>	
On a set of the set of			
Onsite to observe the drilling of dewarring			
well #1. According to Mike of ESR, PLAC	had a hand to	me dilling through	
the 50 feet of sand slung they powed previous	sly trying to stabi	lize the driled	
hole. PLDE was at about 81 feat & when	T arrived Th	e bottom de P	
of hole is muddy. The currys indicated b	wish gry sity	lays Phrevbedal	
, , , , , , , , , , , , , , , , , , ,	gro	-u	
with sity sand lenses. I mentioned to Mike	there is a ju	lve box that	
houses possible subdrawn clean out which should!	mot be burnis	d. Mike award	
the box and will keep it as is. PCDC calle	d it a day w	ien they reached	
92' surtchy between arger and duil bornel.  proposed h	iney will resume	the disting	
to no mon. I also checked out the drill lo	T the	end of Golden	
A	DRVINS		
Eagle Constand staked out the possible	e sinddram loca	17:01.	
	· · · · · · · · · · · · · · · · · · ·		
CODIES TO			
COPIES TO:	[7][15][JD)	[0)[5](0)(N)(0)]7d	
	I USBU		
	1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	5 Chen	
SIGNATURE: PRINT N	NAME: /Aimin	5 Chen	

### ctevens,

Citevens,				
	1600 Willow Pa	ass Court	DATE 9/11/12 Tue	JOB NO. 555-1
rerrone &	Concord, CA 9	94520	PROJECT	
Pailey	TEL 925.688.10 FAX 925.688.1		Kelok Way D	ewatering Wells
Engineering Company, Inc.			LOCATION Clay To a	, i
S F B Project Manager	Ken	Ferrone	CONTRACTOR	OWNER
Task Code	3.72	2	FSR / PCDC WEATHER	TEMP. °at AM
rask oode			Clear	<sup>o</sup> at PM .
			PRESENT AT SITE  Mike of Es	ie
THE FOLLOWING WAS	S NOTED:			
			Va Va	istin of PCDC
Ousite to observe	dallin	of decision is	,,	
		v		
#1. PCDC was	IT about	112 when I a	urrived. They are u	sing drill barrel
to clean the hole.	peoc .	used 30' solid and	80 seven pipes +	- make up the
		•		
110 long well cash	O. PCDO	can only ins	stalled the carrys o	down on 105.
It appeared from 9:	5 +2 105	of the hole we	es muddy. The case	ys sentled s
				197
2 more fort to 109;				2) 68
ground and pulled	out their	drill casing. 6	bags of bentoune were	o the hole.
			,,,,	
The spaces of to			101/6W	Screen 92
Well 4/ 13.5 %		27 80		JONES
Well #2 7	90	12' 78'		
,	110	20' 90'	· · · · · · · · · · · · · · · · · · ·	
	<del></del>		· · · · · · · · · · · · · · · · · · ·	
well #4 14	109	19' 90'		
Well # 5 12.5	109	19' 90'	N. A. C.	
Meli li 3			· · · · · · · · · · · · · · · · · · ·	
Weu #6 12.5'	110	20 90		
6.5 vd 3 of 10 s	ack saul	s/my was my	w to top of the	6 well holes
I rold Mike he	has to	mate sme each	well casing &	inclisamotor
casyo are open a	ble bets	e he put the	Well covers.	
		, , , , , , , , , , , , , , , , , , ,		
COPIES TO:			RNEN M	REPORT
			ITUI5I5IV	
			<b>}</b>	
SIGNATURE:	: 4	DD	INT NAME: Taim	ng Chen
GIGNATURE.	•	- FR	HINT INMINIE.	<del>\</del>



Pittsburg Plant 1375 California Ave. Concrete and Asphalt Phone (925) 432-3828

Remit to: P.O. BOX 870 **ANTIOCH, CALIFORNIA 94509** PHONE: (925) 432-0171 Brentwood Plant 2170 Elkins Way Brentwood, CA Phone (925) **634-3541** 

#### **DELIVERY LIABILITY DISCLOSURE**

#### PRODUCT LIABILITY DISCLOSURE

The purchaser agrees to provide safe roadways for delivery. This company will not assume liability for damage to sidewalks, driveways, tools, equipment or any other property off of public roadways. Our driver will follow customer direction after leaving public roadways. All agents of customer will be responsible for monitoring their equipment. This company assumes no liability for agent's tools or equipment including but not limited to pumping equipment.

We do not guarantee or assume responsibility for admixtures added by others to the concrete. Also, due to variables involved in placing, finishing and curing concrete, we cannot be responsible for surface defects or for color variation when color is added to the mixture.

#### WEIGHMASTER CERTIFICATE

THIS IS TO CERTIFY that the following described commodity was weighed, measured, or counted by a weighmaster, whose signature is on this certificate, who is a recognized authority of accuracy, as prescribed by Chapter 7 (commencing with Section 12700) of Division 5 of the California Business and Professions Code, administered by the Divisions of Measurement Standards of the California Department of Food and Agriculture.

Customer Id: P001

Pacific Coast Drilling/Company Inc

364 Bellevue Avenue

Santa Rosa

CA 95407

TIME	TIME	TIME	TIME	TIME
LEFT PLANT	ARRIVED AT SITE	DONE POURING	LEFT SITE	RETURNED TO PLANT
2:30	3:11	3:56		

PITTSBURG	09/11/12	14:20.	056823	,
PLANT NO.	DATE	TIME OUT	TICKET NO.	

JOB NUMBER	CONTRACT NO.	PROJECT NUMBER
°DØ1Ø3		

TRUCK NO. Order#	Load#	RUNNING TRUCK TOTAL	RUNNING PRODUCT TOTAL	RUNNING JOB TOTAL	SLUMP	PURCHASE OF	COMMUNICOCCUTATION STATE OF ST
91 6	1	Tickét	Shipped	Ordered	6.00	/ 12	-089
DRIVER Huston,	John	9.50	9.50	9.50	WEATHER CONDITIONS	155829	
QUANTITY UM	PRODUCT NUMBER		DESCR	IPTION		UNIT PRICE	TOTAL .
9.50 YO	1000010065	10 sack	sand slu	rry			
9.50 EA	0713	Slowset	90				
1.00 EA	Ø9Ø9		iental Fe	e	-		
	(29)						
3 yl3 left			· .				
1 2 /							
		1.0		ortload	••		
residence of the second	1.5			aturday	Charge		
	8008	Relok b	lay			SUBTOTAL	
	Clay	/ton	,	CA 9451	.7	MISC.	
	un un ein mit met	a son our marin net con ere co	o, enci con esco esco econ econ econ econ	na ka me ma ma ma me ma m	a cen un na cas mo un sen ses	CHARGES	
				No. of the second secon		TAX	
	e K		Market Control of the	ET WORK OF I CHARLES BARRIES BARRIES		TOTAL	•
GALLONS OF WATER ADDED	7	and the same	$\mathbb{I}$			AMOUNT PAID	R TOTAL
ANY WATER ADDED ON THE BE AT THE PURCHASER'S D AND RISK.	IDE WILL CERTI	FIED WEIGHMAST	ER		<del></del>	The second secon	

#### TERMS AND DISCLOSURE STATEMENT

Seller reserves and may exercise its statutory rights as provided for In the Mechanics Lien and Bond statutes. If payment Is not received within terms of net 25th unpaid balance will be subject to Finance Charge computed by "periodic rate" or 1½% per month. Customer agrees to pay a reasonable attorney's tee and all other costs of collection.

I hereby state that I am an authorized agent of purchaser and as such herewith assume full responsibility for payment according to stated terms in our credit agreement on the front of this weigh tag and our company credit agreement on tile.

Customer agrees to pay in full on all products received with no deductions for any reason.

DELIVERY NSRECTED AND APPROVED BY

## stevens, errone & 1600 Willow Pass Court Concord CA 94520

Cicvells,		·
errone & 1600 Willow Pass Court	DATE 9/14/12 Fm	JOB NO. 555-1
Concord, CA 94520	PROJECT	
TEL 925.688.1001 FAX 925.688.1005	Kelok Way L	Dewatery Wells
Engineering Company, Inc.	LOCATION Clay Ton, C	V
S F B Project Manager Ken Ferrone	CONTRACTOR	OWNER .
Task Code 3F2	WEATHER	TEMP. °at AM
	Clear PRESENT AT SITE	°at PM
	Mike of Esh	₹
THE FOLLOWING WAS NOTED:	· · · · · · · · · · · · · · · · · · ·	W
Onsite to observe the drill pad ESR dug		
for horizonal drill rig of the end of Gol,	lan Farla Cont	- The 3
· · · · · · · · · · · · · · · · · · ·		
at the base of the open space stope	and covers a	section of
concrete walkway & a portion of park la		
		•
13 up award the entire pit. The pit is	about 25 by	40 to 50 and
about 12' to 18' cut Mto open space slope an	1 about 6 at	- lawn elevar
Water seeping is observed on the backup to		
about 5' below slope surture. The excavored	spails are temp	waily Stockpilta
on the slope to the fast of the pit. E		
	Paring	<u> </u>
to cover the stockpiles. Mike is in process	of leveling a	the bostom of
pit. Accordy to Mike, he just charled t	he gulwary 1.	and in the
well carrys of the dewarmy wells. Grandwarm	r is at aba	# 9 m wall#
•		
He got couldn't get the top cap of well.		
20 M Wells # 3 9 # 4 and at About 25 to	35 M Well# 5	4 76. He
knew the coursest plan for ESR is to #	oump water	to lower
graduater day navioured disting. He said	the host Zonal	duiller estimates
of will take about 4 to 5 weeks to for	h others	ESP hare4
it will take about 4 to 5 weeks to trave forstalled the well cover yet.	THEY WORK	, EJR MASAL
The Well books 45%.		
COPIES TO:		
	171113141V) i	
	7	<i>~1</i>
SIGNATURE: PRINT NA	AME: / Aimin	g Chen
	1	√ ·

### ctevens,

ailev 1600 Willow Pass Court Concord, CA 94520 TEL 925.688.1001

Compard CA 04520			
Concord, CA 94520		PROJECT	
TEL 925.688.1001 FAX 925.688.1005	L	Kelok Way	Dewatering Wells
		LOCATION	•
Engineering Company, Inc.	1	OGHAD C	layton, cA
S F B Project Manager Ken Ferrone		CONTRACTOR	OWNER
	1	ESR	OGHAD
Task Code 3F2	H	WEATHER	TEMP. Oat AM
Task Code		Clem	at PM
	-		
	- 1	PRESENT AT SITE	E C P
THE FOLLOWING MAG NOTED	L	Mike of ?	<u> </u>
THE FOLLOWING WAS NOTED:			
	Γ		
Consider and I will be to the control of the contro			
Onsite +3 observe horizonal drilling of	٢		
drain. Cross Country was not there. A	tcco	rdy to Mik	e, they will
probably start dilling on Wednesday if	um	t later Mil	ke it workm
	710	100744, 1.111	13 1001119
to repair		6	
to repair a broken irrigator pipe that	<u> /                                   </u>	ad to tlood	y of the drill
pad. He will cut the apper portion of	せん	e slope fur	ther back before
the start of dilling. He also asked	1 m	e for the	as - buit depen
		··	
-1	_	1.4	
of the wells so he can pass on t	-0	dillers.	
<b>,</b>			
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			•
		· ·	
,			
C The control of the			
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			[R]=[0]R]T
SIGNATURE: PRIN		VE 7.4.1.	. Che.
NUMBER OF THE DRIVE	м г. № Д	nam· iainia	ム・レノリモンM

JOB NO. 555-1

9/17/12 Mon

# Stevens, errone & 1600 Willow Pass Court Concord, CA 94520 TEL 925.688.1001 FAX 925.688.1005

SIGNATURE:

Concord CA 94520		
TEL 925.688.1001	PROJECT Kelok Way De	
Engineering Company, Inc.	LOCATION	_
	Clay ton, C	OWNER
S F B Project Manager Ken Femore	ESR/ Cross County	
Task Code3F2	WEATHER Clear	TEMP. Oat AM
	PRESENT AT SITE	
THE FOLLOWING WAS NOTED:	Mike of ESR	
THE POLLOWING WAS NOTED.	Morgan of ESR Cross Comray t	40)
	3.03	
Onsite to observe the disting of horizonal		
drams. Cross Conny was drilling for the	Well #1 at a	distance of
· · · · · · · · · · · · · · · · · · ·		
about 50 when I arrived. They used Ditch	Witch 114020	horizonal directi-
dull wing with 4" diameter, duill rods. Pure		
powder was used. Guide wire was ment	through the d	aily rols.
FSR also set well covers on the 6 puells	on Kelok Way	. Ready
mix concurre was delivered to the ste to.	,	
the street with AC. I Accordy to More		
is now aimy for flat, but they can a		
to. The drilling will mrossed the wells at al	.t. 85 to 9	o'. I told
them for well #2, they may have to a	im t about 8	o some the
well is only about 90' and the bottom of	well may be	dory. I
10tt the site when Cross Conny was It a	601 120. The	guidy system
Cross Connay 15 from Vector Magnet	tics. I checked	water level
on the well casings as below.		
Well#1 at 10.66, Well#2 at 29.28	, well #3 at	21.07 well
#\$5 \$ 23.99, The low level in well #2 i		
a Submerge pump. Accorded to Mite he burned	the well to du	on 13 and half
minutes with about 80 of pipes M well. I merred to	my meter in well a	ed it appeal from
of Submerge pump. According to Mitte he pumped in inutes with about 80° of Pipes M well. I merred to COPIES TO: about 80° to below, the well is mudd,		DEDMDT
		NGI WN II

PRINT NAME: Taiming Chen

JOB NO. 555-1

### ctevens, terrone & 1600 Willow Pass Court Concord, CA 94520 TEL 925.688.1001 FAX 925.688.1005

Concord, CA 94520 TEL 925.688.1001	PROJECT
TEL 925.688.1001 FAX 925.688.1005	Kelok Way Dewatery Wells
Engineering Company, Inc.	LOCATION Clayton, CA
SFB Project Manager Ken Ferrone	CONTRACTOR OWNER
S F B Project Manager <u>Fen Fenone</u>	ESR/CNSS COUNTY OGHAD
Task Code	WEATHER TEMP. Oat AM
	PRESENT AT SITE
	Milae of ESR
THE FOLLOWING WAS NOTED:	
	Alan of Coss Country
honzontal	
Onste to observe duting of a draw #1.	Logan of Inrock
in the state of th	
I amond at the site while cross coming w	ras treating drill rods and guidz
probe at drill bit. ESR was pumpy water at in	vell #1. Water level was at
about 10' before pumping. While the the pump w	is off, I moved the warr
led replace from 61' to 51' in about 7 min	·
·	
minuteman). Logan of Inrock was I the site,	who is Sub to Eross Compayto
provide go guiday system to the drilling.	According to Logan they
·	
are able to tell when dull bit into the perm	weathe grand at a distance
	·
about the same calculated by his system. Once	they tap into it, water
Started to come out of the hole, so they	thenk thought they are went
on the target. The hole is into the well of about 394 to 395 test long. Logan being the end is about	a depth of about 90 and is
sola stalet blooms to the Tree of a solar	Para Track 2.
polon Kelok Way road grate. The gude system,	they are using
only need to have a wise on the good to set	t up a and and this is
be .	·
no need top right above the parth they are do	ntly. The system is able to
calculate the probe position itself. ESR also	V
pase posision viseri. Com viso	paraled the AC cut on Per-
Way. Cross Courty used a 2" puc and cap to	make a seven word 18"
4 1/4" diameter holes. The screen was tested water and found to be able to drill empty M	with 5 gallon bucket of
water and found to be able to drill emper in	about a minute
COPIES TO:	
	F   E   D)
SIGNATURE: PRINT N	IAME. Taiming Chen
OIONATONE, PRINTIN	IMIVIL

## Stevens, 1600 Willow Pass Court CA 94520

ctevens,	
· ·	DATE 9/21/12 Fri JOB NO. 555-1
errone & 1600 Willow Pass Court Concord, CA 94520	PROJECT
TEL 925.688.1001 FAX 925.688.1005	Kelok Way Dewatery Wells
Engineering Company, Inc.	Clayton, CA
S F B Project Manager Ken Ferrone	CONTRACTOR OWNER
	ESR/Cross Coursy DAHAD WEATHER TEMP. °at AM
Task Code 372	Clears oat PM
	PRESENT AT SITE
THE FOLLOWING WAS NOTED:	Ken of SFB
THE POLLOTHING TWO NOTES.	
- A	
I went to checked up the well #1 agam	
with Ken of SFB. The water was at about	- 65 20 minutedan atter ESR
rumed off the pump. Accordy to Mike,	the pump 15 st about 105 bdo
ground. IM Eagle 2" sch 80 pro were used to	for Juin blues. Cross Courty retrier
rod	ds .
the guiday probe and reloaded the steel	y. Water was comy out of
the well casing when the steel casings rea	ached the well. The flow rate
was measured to be about 5 gallon per minu	ite. Hy Noises can be heard
at the well location on Kelok way and app	peared to be water drawing
out of well. Cross Country tried to Mist	•
steel drill rods, but they countrit get the	
pipes ended up got busien at a conner	
pt. Cross County lost about 120' of p	
·	
decided to come back on Monday to r	· · · · · · · · · · · · · · · · · · ·
get the 1055 pipes out. ESR added	an about 5 gallon water
dissorred dish soup to the well after	
95' to confirm if the door bore is -	· · · · · · · · · · · · · · · · · · ·
	,
Mike, the pump is lowered to a dopth	of about 103.
CODIES TO:	
COPIES TO:	
SIGNATURE: PRIN	NT NAME: Taiming Chen

JOB NO.

Kelok Way Dewatering Wells

9/24/12 Mon

PROJECT

555-1

## Terrone & 1600 Willow Pass Court Concord, CA 94520 TEL 925.688.1001 FAX 925.688.1005

TEL 925.688.1001 FAX 925.688.1005

Engineering Company, Inc.	Clayton, C	A
S F B Project Manager Ken Fewone	CONTRACTOR ESR/ Cross Country	OWNER
Task Code 3 F 2	WEATHER	TEMP. oat AM
THE FOLLOWING WAS NOTED:	PRESENT AT SITE  Mike of ESR  Alon of Coss	Courany
Onsite to observe installation of 2" PUC	Logar of Inn	cK
dram pipes. Cross Country had to returne a order to recover the lost pipes. After pur found out sands had gotten into the last	My out all the	on of vods that
completely. I also checked at HeII #1 and Water the Well was purped dry to also 193 for as	was at about	34.5. Atm
per min, The water was up to 12 afrer 45 m.	which is abo	1 0.5 ft per
532-1800 m Dakland. Cross Conny cleaned the wods and started to meet pvc drain pipes	hole with war	used garden
p any clig while advancy the PUC pipes.  secured at sidewalk of 8002 Kelok &	I noticed so	nd piping had
through dill rods. This probably was due to		
how the well have & BClass 2 perm the	r un Nato Si	treet baseruck
how the well have & B class 2 perm then ayer. Cross coming still had hard time at	a distance about	- 15 from
COPIES TO:		REPORT
SIGNATURE: PRINT N	AME: Taimi	ng Chen

### Stevens, errone & 1600 Willow Pass Court Concord, CA 94520

CILO VCHS,	
Perrone & 1600 Willow Pass Court	DATE 9/24/12 Mon JOB NO. 555-1
Concord, CA 94520	PROJECT
TEL 925.688.1001 FAX 925.688.1005	Kelok Way Dewatery Wells
Engineering Company, Inc.	Clarton, CA
S F B Project Manager Ken Ferro no  3 F 2	CONTRACTOR OWNER
Task Code 3 F2	ESR/ Cross Country OGHAD  WEATHER TEMP. °at AM
	CIEM ° at PM
<u></u> ,	PRESENT AT SITE  Mike, Bill of ESR
THE FOLLOWING WAS NOTED:	
	Alan Wayne of Cross Couray
center of well and broke the pipes	Logan of InRock
at about 40' from dill pit. They are got	a see that the second of the s
	· · · · · · · · · · · · · · · · · · ·
They now me thanky to love the start drill	rods/casys in the hole so
they can deal noth the pre pipe a mstallaran	later therefore they won't
waste time on pipe installaton and am may b	re able to come up a better
Solution along the way.	
	· · · · · · · · · · · · · · · · · · ·
COPIES TO:	FIELD REPORT
	UUSLY MISIT WIN II
SIGNATURE: PRINT N	IAME: Taiming Chen
	· · · · · · · · · · · · · · · · · · ·

## tevens, 1600 Willow Pass Court Concord, CA 94520 TEL 925 698 4004

CICVEIIS,	DATE LOB NO	$\neg$
errone & 1600 Willow Pass Court	DATE 9/27/12 Thu JOB NO. 555-1 PROJECT	
	PROJECT	
TEL 925.688.1001 FAX 925.688.1005	Kelok Way Devatery Wes	1/5
Engineering Company, Inc.	Clayton, CA	
S F B Project Manager Ken Ferrine	CONTRACTOR ESR/Cross Comy OGHAD	
Task Code 3 F2	WEATHER TEMP. ° at AM Clem ° at PM	
	PRESENT AT SITE	
THE FOLLOWING WAS NOTED.	Mike of ESR	
THE FOLLOWING WAS NOTED:	Alan of Cross Convay	
	,	$\neg$
onste to observe dilly of draw pipe hale.	Logan of Innock	
Cross Comy was I about 200 When I	anned. Accordy to Loga	<u> </u>
of lunck he is aiming flat at abs	·	
#2. I rold him since the well is at		
have a risk to not hitty the well. Logar		
bit higher so the pipe will tap into u	/	
told him that would be better to do it	that way. I also a che	Me.
water level in the wells#1,#29 #3 and	they are respectively 31.4,	
44.3 & 22.6. Accordy to Mile the only		
well \$2 and only took him about 10 min	· ·	
arth Mike for the previous two days of	*.	
him Cross Conny had torred to use 3/4"	pre pipes with water but to	<u>arl-</u> ,
to clean out the steel casy of hole #1.		
to the site and also failed to clean the	· · · · · · · · · · · · · · · · · · ·	
Country's current plan 13 to finish as a	many as holes They can wood	1
their available rods/casings.	•	
The state of the s		
		<u> </u>
CODIES TO:		<del></del> 7
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		_
	·	
SIGNATURE: PRINT N	NAME: Taiming Chen	_
·	,	

## Stevens, errone & 1600 Willow Pass Court Concord, CA 94520

TEL 925.688.1001	PROJECT  Kelak Wan 1	Dewaren I I - 11-
Engineering Company, Inc.	1 2007111011	Dewatery Wells
	Clay Ton, C	A
S F B Project Manager Ken Temore	CONTRACTOR ESR/Cross Coursey	OWNER OGHAD
Task Code 3 FZ	WEATHER	TEMP. oat AM
	Clear PRESENT AT SITE	°at PM
THE FOLLOWING WAS NOTE:	Mike of FSR	
THE FOLLOWING WAS NOTED:	Alan of Cro.	
		i
Onste to observe drilling of horizontal down	Lugan of In	rock
to for dewatery wells. According to Mite		
dram #2 for on Friday. Cross Connay 13	dully for dra.	w #3 and 13
	,	
at a distance of about 296 when I arrive		
\$2 reached the well \$2 at a depend of a	62T 81' and +	otal distance
11 about 361. Accordy to Alam, he was a		
entery the well due to the water stanted to		
frinkling out of drain hole from I can	Sec. Alan	said they have
trinkling out of dram hole from I can holder marand a plug in hole to provid lossy the ho	's an -1 1 1 7	- , ,
plug in noise to preval losing the ho	The Hole I	a'so checkes
Water level on well \$2 is 49.3' and w.	e1143 13 23.0	". Miles said
	•	
he just jumped It 2 betor he moved he	. pup	
#2 13 361, Dran #3 will be about	350, According	to Logan,
they used a doll angle of about 10 s	so will tape m	to Well #3
J		
about a depth of ab I 81 or so.		
	- And	
		· · · · · · · · · · · · · · · · · · ·
·		**
COPIES TO:		
	5   5   In)	
SIGNATURE: PRINT	NAME: Jaim	y Chan

DATE

10/1/12 Mon

JOB NO. 555-1

## Stevens, 1600 Willow Pass Court Concord, CA 94520 TEL 925 688 1001

Cite velis,		
rerrone & 1600 Willow Pass Court	10/3/12 Wed	JOB NO. 555-1
Concord, CA 94520	PROJECT	
TEL 925.688.1001 FAX 925.688.1005	Kelok Way D	lewatery Well
Engineering Company, Inc.	LOCATION	
SEB Project Manager Ken Ferrone	Clayton, CA	OWNER
S F B Project Manager <u>Femore</u>	ESR/ Cross Conny	OGHAD
Task Code 3 F2	WEATHER Clear	TEMP. oat AM
	PRESENT AT SITE	
THE FOLLOWING WAS NOTED.	Mike of ESR	•
THE FOLLOWING WAS NOTED:	Alan of Cross	Court
	' '	•
Onsite to observe duting of draw pipe. Cross	Logan of In	Rock
	4500	_
County is drilling draw # 4 and is at a	distance of 260	Accordy
To Logan, this hale will be ending up of a	50 J 350 and A	nto the well
at about 80 to 81 for deep with about 10 5		
dram #3 yesterday . I the hile was as I 35		
80 to 81. Logar raid they were able to feel	1 when drill MT	to the avers an
Saw water flowing out of the hole. Water	trinks out of	down have #3
where while I am at the site. Cross Com-		
	•	
holes before they start to metall pue pip	es. I observed	all the wells
to on Kelok Way and water land on well are		
41 23.17	,	
#2 30.59		
	-0 44 · 0	
	<del></del>	
\$ 4 56.18 -> ESR had pumped the well dry 2	hr before	·····
# S 25.11		
s b 27.46		
1W41 20.96 (CEG'S WEIL)	`	
<u> </u>		
COPIES TO:	RIRI M	
	LUSBY .	KEPORT
		ı
	7-	
SIGNATURE: PRINT N	IAME: Taiming	Chen !
一点"你就是我们的,我 <b>我们</b>	~	

JOB NO. 555-1

### ctevens, 1600 Willow Pass Court Concord, CA 94520 TEL 925.688.1001

Concord, CA 94520 TEL 925.688.1001 FAX 925.688.4005	PROJECT Company (1914)
FAX 925.000.1005	Kelok Way Dewatery Wells
Engineering Company, Inc.	Clayton, LA
S F B Project Manager Ken Femne	CONTRACTOR OWNER
Task Code 3 F2	WEATHER TEMP. OAH AM
	Clear °at PM
	PRESENT AT SITE  M:Ke of FSR
THE FOLLOWING WAS NOTED:	
	Alan of Coss Contry
Onste to obsone duily of well drawn	Logan of Innck
pripe. Invock & cross Convey were son	sureyy for the enry
of drain pipe #6. Accordy to Mike o	
finished installation of PVC in drain #4 1a	,
pipes went in okay without much of resis	
pipe draw much of water out. Alan so	• •
flow was greater when he initially drill	
rod. Cross Conney also finished the duit	
said they were about 175 at end of lass	t Firday and finished the
duiling of on Saturday when he was not -	
PVC this morning but pipes only went in	
to end of one hale. They got the	PVC pipes out and found out
grants (which are singilar to Class perm)	
They gave up on Mstally PVC pipes on m	Landran #5 and switched
to start dirting of drain #6. I went w	p to Kelok way to shock
ground water levels in wells. Well #1 at 2	3.14; well#2 # 30.50
well \$3 at 24.70'; well \$4 at 24.68'; we had pumped) and well \$6 at 28.01'.	e11#5 at 14.95 (which ESR
had pumped) and well #6 IT 28.01'.	
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SIGNATURE: PRINT NA	AME: Taiming Chen

JOB NO.

555-1

DATE

## Stevens, errone & 1600 Willow Pass Court Concord, CA 94520

	10.12	JOB NO
Errone & 1600 Willow Pass Court	10/8/12	555-1
Colicolu, CA 94920	10/8/12 PROJECT	
TEL 925.688.1001	Kelok Way	Dewatery wells
FAX 925.688.1005	LOCATION	Dewatery wells
Engineering Company, Inc.	Clauston	c A
V. T.	Clay ton	LOWNED
S F B Project Manager Ken Fermone	CONTRACTOR	OWNER O
	ESR/ Cross Courty WEATHER	DAHA
Task Code 3 F 2	WEATHER /	TEMP. oat AM
	Cleur	oat PM
	PRESENT AT SITE	
•		
THE FOLLOWING WAS NOTED:		<del></del>
•		
· · · · · · · · · · · · · · · · · · ·		
I also asked brown for the ac-built		
1	<del>-</del>	
drasa la		
of all all of the all acounts.		
1 engths alepths		
Dran #1 396 90		
I also asked Logan for the as-built  drain drain hole draws 4 depths.  Imgris depths  Dram #1 396 90	. ,	
42 356 81'		
A13 251 81	•	
#3 351 81		
#4 348 86+082		
	* * * * * * * * * * * * * * * * * * * *	
#4 348 86 to 82 #5 335 80 to 82		
7. 2. 377 0. 40 0.		
Logan said he has a same plan for Dr	an \$ 6 which	will end up
	•	
with length and depth silimon to Drawn =	#5.	
	•	
#6 330 10mg per Alans 10/29/12		
, , , , , , , , , , , , , , , , , , , ,		
· · · · · · · · · · · · · · · · · · ·		***
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### stevens, errone & 1600 Willow Pass Court

etevens,	
Perrone & 1600 Willow Pass Court	DATE 10/11/12 Thu JOB NO. 555-1
Concord, CA 94520 TEL 925.688.1001 FAY 925.688.4005	PROJECT Kelok Way Dewatering Wells
Engineering Company, Inc.	LOCATION
SFB Project Manager W Ken Ferron-	e CONTRACTOR OWNER
"Task Code	ESR/ Cross Camery OGHAD
1 2 3 2 3 2 3 2 3 2 3 3 3 3 3 3 3 3 3 3	Cloudy . °at PM
	PRESENT AT SITE ' M: Ke of ESR
THE FOLLOWING WAS NOTED:	Bill of ESR
Onste to obsene Mstallation of e	drain pipes.
Cross County had finished all the	drilling 4 Pis trying to Mistail
2" 4 pvc drampipes. Accordy	
	,
them to install pipes without and	:
and impede flow. Mike use a n	rater tank truck to supply fresh
water to well # 6 on Kelok Way	try to clean out any silts m
steel dall rads a draw hole #6.	
the well gute fast as steady go.	of amost of water is reported flowing
out of steel dail rods. Mike sain	
of m well #6 and it is drawning	· · · · · · · · · · · · · · · · · · ·
probe to read the casing in well	# 4 and processed the ready in
office I as to obecked worker levels	on well # 4 that is 24.95 (Mile
sard he pumped the well earlier)	then then
Said He purped The Sell Edition of	1 Well HE SAN IS 33.7 and direpped
+ 35.6 about 5 mm later (about 2	dup for 5 min). It appeared the
water in well \$16 13 still dropping.	I also elected outlet of # steel
rod at draw #6 and shere is stead	
CODIES TO:	
COPIES TO:	FIELD REPORT
· · · · · · · · · · · · · · · · · · ·	
	Town Chen
SIGNATURE:	PRINT NAME:

# Terrone & 1600 Willow Pass Court Concord, CA 94520 TEL 925.688.1001 FAX 925.688.1005

Engineering Company, Inc.	LOCATION	A
SFB Project Manager Ken Femne	Clayton, C CONTRACTOR	OWNER
	ESR/ Cross Comy	OGHAD
Task Code 3F2	. 1	TEMP. oat AM
	PRESENT AT SITE	
THE FOLLOWING WAS NOTED.	Mike of ESR	
THE FOLLOWING WAS NOTED:	Morgan of E	SR
Onside to take inclinometer reading of	Alam of co	ss Comty
W-1, W-2, W-3, W-5 & W-6. Ready		•
previously on 10/11/12. I also checked g	roundwarer table	in wells
as below: W-1 at 23.08; W-2 of 30.38		_
23.98; W-5 at 15.9 (45 min after FSR	pumped); W-6	# 85.7 ( PVC
draw had been successfully metalled to this well		· ·
		•
to mull compress ar to bottom of well # 5	thath brimb	to clean it
up. According to Mike, their previos plan	of using soma	Mer trig to
clean out the steel doill rod failed so n	ow they stick	noth the same
plan they used for Well # 6, which 13 HE	•	
to the well and leving it drawn to the	bottom and el	em the marke
of disil rods. Mike said that when the		
draw # b, they found the end 50 of +	he rods were	clossed up by
sands & gracis. Mike started to pour war		· /
water tank truck once Cross Convey reload		
clem drill rods. I went down to the	duill pad and	Saw a pretty
good amost of drong worer was drong at the warm rable in well #5 that indicare	of drill rods.	. I cheked
the warm table in well \$5 that indicate	dupry 27	for about 15 m
COPIES TO:		
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		· , >
SIGNATURE: PRINT NA	ME: Taiming	Chew

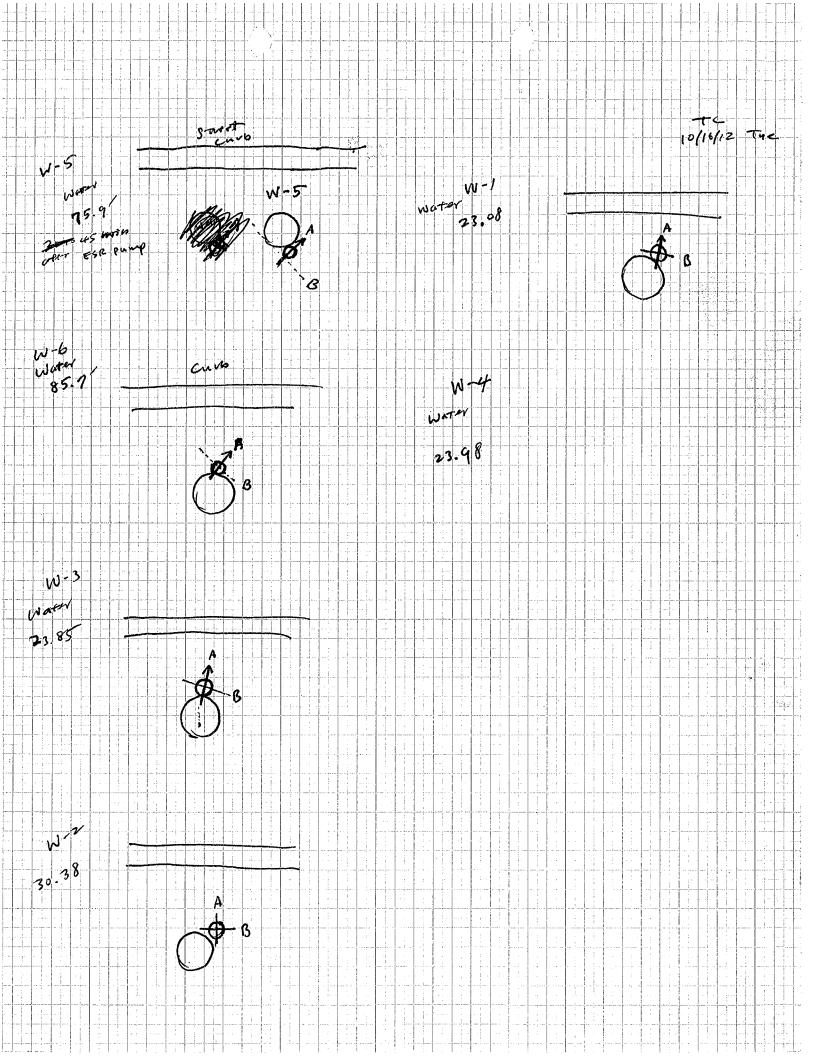
PRINT NAME: \_

DATE

PROJECT

JOB NO.

Dewatery Wells



#### Stevens, 1600 Willow Pass Court Concord, CA 94520

CILC V CLIS,	DATE JOB NO. C. /
Perrone & 1600 Willow Pass Court	DATE 10/23/12 Tue JOB NO. 555-1
Concord, CA 94520 TEL 925.688.1001	PROJECT
S 1. A 1.	Kelok Way Dewatering Wells
Engineering Company, Inc.  S F B Project Manager Key Terrone	Clayton, CA
	CONTRACTOR OWNER  ESR/ Cross Comy OGHAD
Task Code 3F2	WEATHER TEMP. oat AM
	Cloudy °at PM PRESENT AT SITE
THE FOLLOWING WAS NOTED	None
THE FOLLOWING WAS NOTED:	
Onsite to check out the progress o	7
· · · · · · · · · · · · · · · · · · ·	•
dram pipe MSTAllatins. ESR 9 C	
today. I checked at grondwarer	level in all wells except for
Well # 3 that was blocked by a	,
-/····································	BOOKEN, NUMBER TELET AS BETOWN.
well #1 23.5'	
uella2 32.2	
Well #4 23.9	
well #8 83.2	
well 116 85.7	
MW-1 (CGG'S Well)	
I also went down to oxist /	ocation at Golden Engle ct. 4
puc draw pipes were on the holes.	#3, #4, #5 \$ #6. Drams \$ \$ # (
had water trinking at. only a lit	all water came at of #4. In
appoint very lotte to no water from #	· ·
•	·
on Drawn #2 al about to mittall	
on the sturet. To dare, it appeal	Drum #5 9 76 were worken.
, 11	
	<u> </u>
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SIGNATURE:	PRINT NAME: /aiming Cheu

JOB NO. 555-1

10/29/12 Mon

PROJECT

# Terrone & 1600 Willow Pass Court Concord, CA 94520 TEL 925.688.1001 FAX 925.688.1005

Engineering Company, Inc.	Clayton, cA
SFB Project Manager Ken Ferrone	CONTRACTOR ESR/ Cross Connoy OGHAD
Task Code 3F2	WEATHER TEMP. ° at AM
THE FOLLOWING WAS NOTED:	PRESENT AT SITE  Mike of ESR & Morgan of ESR  Alan & Wayne of Cross Commy.
ONSTE TO Check out the progress of a	V. CCR
work with Ken. I measured grand	ware on the wells as follow.
#1 23.4' Coss Commy is pul	lly out of drilly rods m draws
\$12 32.7 # 1 with 2" PVC	opes installed. I also checked
# 3 25.05 the pipe outlets a	and it appeared that steady Hows
	of Drawis#2, #5, #6. Draws#3
	ping very so often. According to Mike
Ab 85.7 They used some technic	que trying to flush out draw holes#1
#2173 He said a lot of \$gray free so	ands were pluggy drill rods in hole
Al & class 2 perms were pulggy drill -	ods m holes # 2 \$ #3. I obser do
sord sands & class 2 perms on the	dilly pad floor. Accordy to Mixe
all of the \$ 2" puc draw pipes were	able to p installed to the end of drill
rods before they pulled at of o rod	15. Draw # 1, 3, 4 don't appeare 7
dram. An Accordy to Mike & Morgan	, they will try to use water
from Hydrant through smaller dianeter	PVC pipes to clean the already
Astulled dram pipes # 1, 3, 44. Some	
well to see it polymer has someony.	to do not the non-draing and blea.
can breakdown the remains polymer of	any. En Attor Cross Comy
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JOB NO. 555-1

10/29/12 Mon

ctevens,
errone &
ailey
Parinagina Company Inc

1600 Willow Pass Court Concord, CA 94520 TEL 925.688.1001

Concord, CA 94520	PROJECT		
7EL 925.688.1001	Kelok Way Dewatory Wells		
FAX 925.688.1005 Engineering Company, Inc.	LOCATION		
Engineeting Company, inc.	C (ay Tou,	CA	
S F B Project Manager	CONTRACTOR	OWNER	
Task Code	ESR/Cross Comy	TEMP. °at AM	
lask Code	Clear	oat PM	
	PRESENT AT SITE		
THE FOLLOWING WAS NOTED:			
THE TOLLOWING WAS NOTED.			
pulled out all drill rods from drawn hole			
· · · · · · · · · · · · · · · · · · ·			
#1, gry fre sails can be seen miste	the last about	30 long of	
•			
rods. ESR also had 2 common catch	basm structure	5 (3,3 9,39	
each) at the site for later installation. Cro	iss commany will	leave the	
	•	1	
site some they had finish everything they	can do at the	e sote It will	
pearl for ESR to trying clean out this			
100 THE STATE OF T		pipes	
·			
· · · · · · · · · · · · · · · · · · ·		·	
		_	
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	1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1		
SIGNATURE: PRINT NA			

### tevens, 1600 Willow Pass Court Concord, CA 94520 TEL 925.688.1001

EAY 925.688.1001	Kelok W	ay Dewatery Wells
Engineering Company, Inc.	LOCATION	
	Clayton	OWNER
S F B Project Manager Ken Tremone	- ESR	OGHAD
Task Code 3F2	WEATHER	TEMP, °at AM
3	Clent	<sup>o</sup> at PM
Was .	PRESENT AT SITE  Mike of	FIR
THE FOLLOWING WAS NOTED:	101.00	
Onste to check out the progress of al	eang	
		<del></del>
draw pipes. At the time I amind	_	
#1 24.55 that the used to	inject hydrit	water to clean
	gray color water	came out of
# 3 Not measif due to a parked	the draw pipe	. Accord to
'		
		•
* 5 83.2 all the way to the.	end, but he not	red his copper
\$ 6 85.1 ! pipe went it more the	an the slength	drawn pipe Cross
	· c	•
Commy gave him. Mile said he will	•	and the second s
\$12 one more time next Monday.	He also wid me	the water drawn
from drawn #2 had suddenly decrease		•
no due what had happened to .T. So	he the clean	arum # 2 +6
see how of goes. According to him	he was able	to clean drams#
4 4 but that doesn't seems to work		
	•	
drippy at the end of pipes. I w	ent to checked	gulwar tables
m the well at the pesults were a		
profession were a	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	, , , , , , , , , , , , , , , , , , ,
·		
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		) KEPORT
SIGNATURE:	RINT NAME: /ain	ing Chen

JOB NO. 555-1

#### ctevens,

ctevens,		
Perrone & 1600 Willow Pass Court	DATE    1/6/12 The  PROJECT	JOB NO. 555-1
Concord, CA 94520 TEL 925.688.1001	PROJECT NOICE Way D	ewatering wells
Engineering Company, Inc.	LOCATION	
S F B Project Manager Ken Temphe	Clayton, U.	OWNER
	E3R WEATHER	OGHAD TEMP. °at AM
Task Code 3F2	Clear	o at PM
	PRESENT AT SITE  Mike of ES	R
THE FOLLOWING WAS NOTED:		
Onsite to check out & ESR's progress on		
cleany of dram pipes #1 + through #4. h	then I armed	, Mirke was
on #3 and he said he felt graels at		4
he pulled out his copper gipes, the there		
copper eige and some dusts on the site.		
the draw #2 yesterday and IP suddenly sto	pped floory. Bis	The flow of
draw #2 resume this morning. I can sm		
flong out of the pipe. Mike said he p		
wells # 1 though # 4 to a week ago and the	s morny PCD	e also added
Some slumy buster to wells #1 through		
court clean the drawn #11, all the war	ur he got is	5 graysh and
with strong sulfur odor. He His copper pipe	can went F	n to about
410' but the drawn pipe hale is only supp	posed to be 3	76, which Adica
a cavity exists beyond the end. I h		
jeels m wells as follow. Well#1 at 21.	3 , Well#2 AT	34.4 Well # 3
# 25.5 & well # 4 # 25.0. As of today		
trinky, dram# 3 4 #4 are duppy, dram #1		
Mike 13 try of clean dram #1 before h	e pulled out	the site.
COPIES TO:		REPORT
		MSFWMI

PRINT NAME:

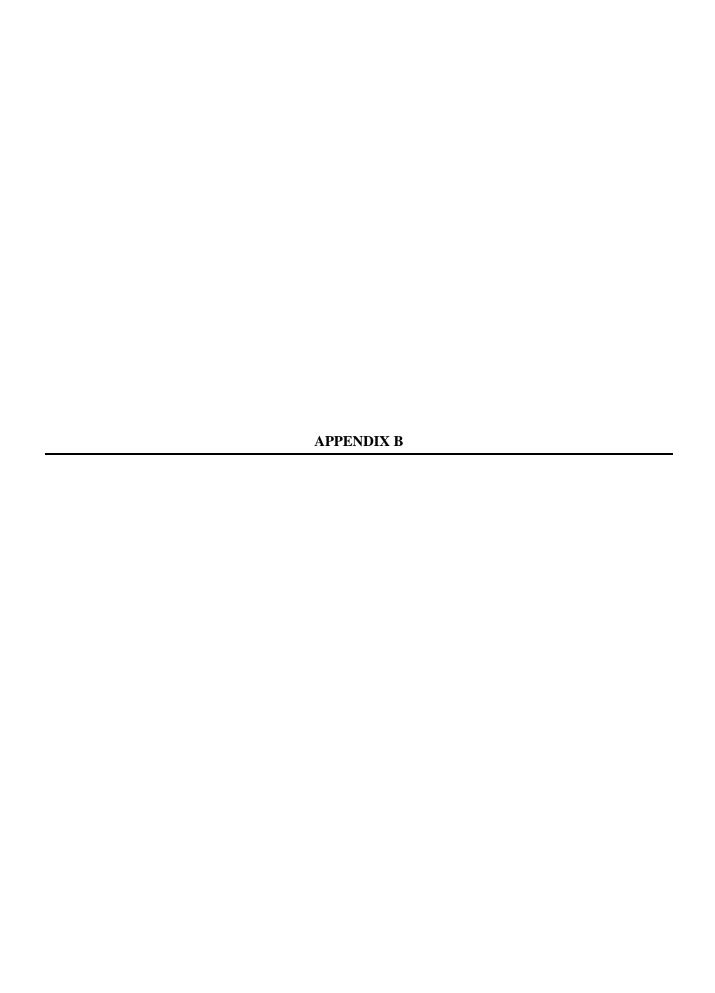
Taining Chen

# stevens, errone & 1600 Willow Pass Court

SIGNATURE: \_\_\_

LICVEIIS,	DATÉ	LOBNO
Prerrone & 1600 Willow Pass Court	11/29/12 Thu	JOB NO. 535 -1
Concord, CA 94520	PROJECT	
TEL 925.688.1001	Kelok Way	Dewatering Wells
FAX 925.688.1005 Engineering Company, Inc.	LOCATION	V
	Clayton, cf	
F B Project Manager Ken Femone	CONTRACTOR  ESR	OGHAO
sk Code 3 F2	WEATHER	TEMP. Oat AM
sk code	Cloudy	° at PM
	PRESENT AT SITE	
IE EOLI OMINO MAGNOTED	None	
HE FOLLOWING WAS NOTED:		
Maria Tanana da Maria		
Onsite to check out the current codition		
of the site. ESR was not there. The	man some doillown	and was compl
Market Chr. State Market Market	premous orming	p. t was
actilled and the summerly slope was res	stored. The slope	was covered
•		
th straw nerting with battle holls for	erosion Control.	A section of con
	plante	•
wolk was reported and a previous lawn	arra was soll	of with hew so
		^
Camp a marts A 12643 ctill what is		. , <i>p</i> t
Some equipments a debut's still remain of	the street cu	1-de-sae. H
Some equipments & debut's still remain it		
en concurre collector box was postulted to	collect water f	om the honzar
en concerte collecter box was postulted to	collect water f	om the horizon-
en concrete collector box was metalled to draw pipes. I pipe outlets were observed	m the box, wh	om the horizon
en concrete collector box was metalled to draw pipes. I pipe outlets were observed	m the box, wh	om the horizon
en concerte collector box was metalled to  draw pipes. I pipe outlets were observed  ne from a previous temporary draw pipe &	m the box, wh	om the horizon-
en concrete collecter box was metalled to  dram pipes. I pipe outlets were observed  ne from a previous temporary dram pipe &	m the box, wh	om the horizon-
en concerte collector box was metalled to  dram pipes. I pipe outlets were observed  ne from a previous temporary dram pipe &  from howzoned dram pipes. Active water th	m the box, who collect slope	on the horizonthe muluded suppose and six
f slope seepages ripe and drawn pipes of need to be periodical dripping	collect water of mother box, who to collect slope.  Tows were observed 2, #5 9 #6. P	om the honzar
f slope seepages ripe and drawn pipes of need to be periodical dripping	m the box, who collect slope	om the honzar
dram pipes. I pipe outlets were observed we from a previous temporary dram pipe from housement dram pipes. Active water the follows seepayes pipe and dram pipes of the standard of the periodical dispersional drapping to be periodical dispersional	collect water of  m the box, wh  to collect slope.  lows were observed  2, #5 4 #6. D  The groundwarm  the officers	om the honzar
dram pipes. I pipe outlets were observed me from a previous temporary dram pipe of from houzoned dram pipes. Active water the slope seepages pipe and dram pipes of 13 & Alf appeared to be periodical dispersional deals on Kelok way were measured as	collect water of mother box, who to collect slope.  Tows were observed 2, #5 9 #6. P	om the honzar
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dram pipes. I pipe outlets were observed are from a previous temporary dram pipe of from houzons dram pipes. Active water the slope seepages pipe and dram pipes of the periodical dispersional drappy was observed to be periodical dispersional dispersion	collect water of  m the box, wh  to collect slope.  lows were observed  2, #5 4 #6. D  The groundwarm  the officers	om the honzar

PRINT NAME: Taiming Chen



**TABLE B-1** SUMMARY OF LABORATORY COMPACTION TEST RESULTS

ASTM D1557					
No.	Description	Maximum Dry Density (pcf)	Optimum Moisture (%)		
2	Onsite: Brown silty CLAY (CL), some sand	110	17		

Geotechnical Engineering Engineering Geology Storm Water Management Construction Observation and Testing Services

PROJECT NO.: 555-1 PROJECT: Kelok Way Dewatering Wells, Clayton, CA

#### TABLE B-2 FIELD DENSITY TEST RESULTS ASTM D2922-91

TEST NO.	DATE	LOCATION	ELEV.	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	RELATIVE COMPACT. (%)	R.C. REQUIRE. (%)	CURVE (no.)	CURVE (pcf@%)	REMARKS
1	11/9/2012	Drill Pit Backfill	3' BFG	15	107	97	90	2	110@17	
2	11/9/2012	Drill Pit Backfill	4' BFG	16	104	96	90	2	110@17	
3	11/12/2012	Drill Pit Backfill	3' BFG	20	99	90	90	2	110@17	
4	11/12/2012	Drill Pit Backfill	2' BFG	19	100	91	90	2	110@17	
5	11/12/2012	Drill Pit Backfill	1' BFG	21	99	90	90	2	110@17	
6	11/13/2012	Drill Pit Backfill	12' BFG	20	105	95	90	2	110@17	
7	11/13/2012	Drill Pit Backfill	12' BFG	21	101	92	90	2	110@17	
8	11/13/2012	Drill Pit Backfill	11' BFG	20	104	95	90	2	110@17	
9	11/13/2012	Drill Pit Backfill	FG	22	100	91	90	2	110@17	
10	11/13/2012	Drill Pit Backfill	7' BFG	22	102	93	90	2	110@17	
11	11/14/2012	Drill Pit Backfill	4' BFG	20	103	94	90	2	110@17	
12	11/14/2012	Drill Pit Backfill	3' BFG	19	101	92	90	2	110@17	
13	11/15/2012	Drill Pit Backfill	3' BFG	20	100	91	90	2	110@17	
14	11/15/2012	Drill Pit Backfill	4' BFG	19	99	90	90	2	110@17	
15	11/15/2012	Drill Pit Backfill	FG	18	102	93	90	2	110@17	
16	11/15/2012	Drill Pit Backfill	FG	21	99	90	90	2	110@17	

Note: FG = Finish Grade; BFG = Below Finish Grade.

ctevens,		
Prerrone & 1600 Willow Pass Court	DATE 11/9/12	JOB NO. 555~1
TEL 925.688.1001	PROJECT Kelo	k why
Engineering Company, Inc.	LOCATION Clary	on, Ca,
S F B Project Manager	CONTRACTOR	OWNER
Task Code 7F3	WEATHER	TEMP. °at AM
	PRESENT AT SITE	
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remone & 1600 Willow Pass Court	DATE 11/12/12 JOB NO. 555-1
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FAX 925.688.1005	LOCATION Claryton Ca
S F B Project Manager Kow F,	CONTRACTOR OWNER
Task Code 1F3	
	WEATHER TEMP ° at AM ° at PM
THE FOLLOWING WAS NOTED.	PRESENT AT SITE ESR
THE FOLLOWING WAS NOTED:	
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PRINT NAME: J. Threlgos

ztevens,	DATE / / JOB NO.
Prerrone & 1600 Willow Pass Court	DATE 11/13/12 JOB NO. 555-1
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Engineering Company, Inc.	LOCATION Cay
F B Project Manager <u>KN F</u>	CONTRACTOR
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ask Code	WEATHER TEMP. Oat AM oat PM
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	FIELD REPORT
	PRINT NAME: J. 7212 PLACES

ctevens,	DATE	JOB NO.
errone & 1600 Willow Pass Court Concord, CA 94520	11/14/12	JOB NO. 555-/
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Engineering Company, Inc.	LOCATION Chayto	~ . Ca.
S F B Project Manager Ker F	CONTRACTOR	OWNER /
Task Code <u>7</u> F3	WEATHER	City/Churyton
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THE FOLLOWING WAS NOTED:		
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PRINT	NAME:	7/2

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Stevens, 1600 Willow Pass Court	DATE // /15/12	JOB NO. 555-/	
Errone & 1600 Willow Pass Court Concord, CA 94520 TEL 925.688.1001 FAX 925.688.1005	PROJECT Re Coll	(NKA	
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S F B Project Manager K. F.	CONTRACTOR	OWNER Chyfun	
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