Ro-197



Alameda County

Environmental Support and Services 77 Beale Street San Francisco, CA 94105 *Mailing Address* P.O. Box 7640 San Francisco, CA 94120

415.973.7000

SEP 04 2002

August 26, 2002

Environmental Health

Alameda County Environmental Health Care Services Environmental Protection 1131 Harbor Bay Parkway, Suite 250 Alameda, CA 94502-6577 Attention: Ms. Eva Chu

<u>Subject:</u> Oakland Power Plant, Proposal for Confirmation Soil and Groundwater Sampling East of Unit 2 Exhaust Stack

Dear Ms. Chu:

This letter presents a description for proposed confirmation soil and groundwater sampling east of the Unit 2 Exhaust Stack at Oakland Power Plant. The plant is located at **Exhaust Stack at Caller** King Jr. Way, in Oakland, California. This letter was prepared as requested in your letter to Mr. Korbin Creek of Pacific Gas and Electric Company (PG&E), dated June 4, 2002. In that letter, further delineation of Total Petroleum Hydrocarbons as Diesel (TPH-D) concentrations in the groundwater near the eastern portion of the power-generating parcel was requested. In particular, an unusually high concentration of TPH-D (160 mg/L) was reported in a 1992 grab groundwater sample collected from a soil probe (GWS-2A) advanced in this area, according to the onsite mobile laboratory that tested it (PG&E, January 1993, Shallow Soil and Groundwater Investigation Surrounding the Diesel Dump Tanks at PG&E's Oakland Power Plant, Alameda County, California). A soil sample collected from that probe at six feet below ground surface (bgs) was reported to contain 310 ppm TPH as diesel. This letter proposes confirmation soil and groundwater sampling from a single soil probe to be advanced near the 1992 probe location. The primary purpose of the proposed confirmation sampling is to compare the TPH-D results of the new groundwater sample to that of the 1992 sample in order to assess the representativeness of the older sample.

The proposed confirmation sampling location (CS-1) is immediately adjacent to the location of a 1992 soil probe, GWS-2A (Attachment 1). It is proposed to collect the confirmation soil and groundwater samples using Direct Push (DP) soil probing equipment. It is planned to advance a single probe to a depth of approximately eight feet bgs, and collect one soil sample at groundwater depth, expected to be about four to five feet bgs. It is proposed to collect duplicate grab groundwater samples by either lowering a new bailer through the probe rods or by inserting tubing with a check valve at the bottom, and jacking. Samples will be labeled, placed on ice in a cooler, and transported under chain-of-custody to a state-certified laboratory.

The subsurface conditions, soil sample depths, and depth to groundwater will be documented on a boring log prepared by a field geologist. Soils will be described according to the Unified Soil Classification System outlined in ASTM D2488. The probe hole will be tremie grouted to the surface with neat cement. It is proposed to analyze the soil and groundwater samples for TPH-D by U.S. Environmental Protection Agency (USEPA) Methods 3510/8015M. Prior to analysis, the water samples will be poured through a 0.7-micron glass filter to remove the particulate matter, and will be prepared using a silica gel cleanup by EPA Method 3630 to reduce biogenic interferences.

Additionally, in your June 4 2002 letter, you requested documentation related to the disposal of excavated soil associated with the removal of three diesel dump tanks at the plant in November 1991. Attached are five Uniform Hazardous Waste Manifests indicating that a total of 77 cubic. yards of soil contaminated with thesel fuel was shipped to Kettleman Hills Facility on January 17-24, 1992.

In your June 4 2002 letter, you also requested the name, address, and contact information of the new property owner for Oakland Power Plant. That information follows.

Owner NameDuke Energy North AmericaOwner Address50 Martin Luther King Jr. WayContactLuis MedinaContact Telephone510-251-6860

Please feel free to contact me at your earliest convenience (415) 973-4203 to discuss the proposed confirmation sampling.

Sincerely,

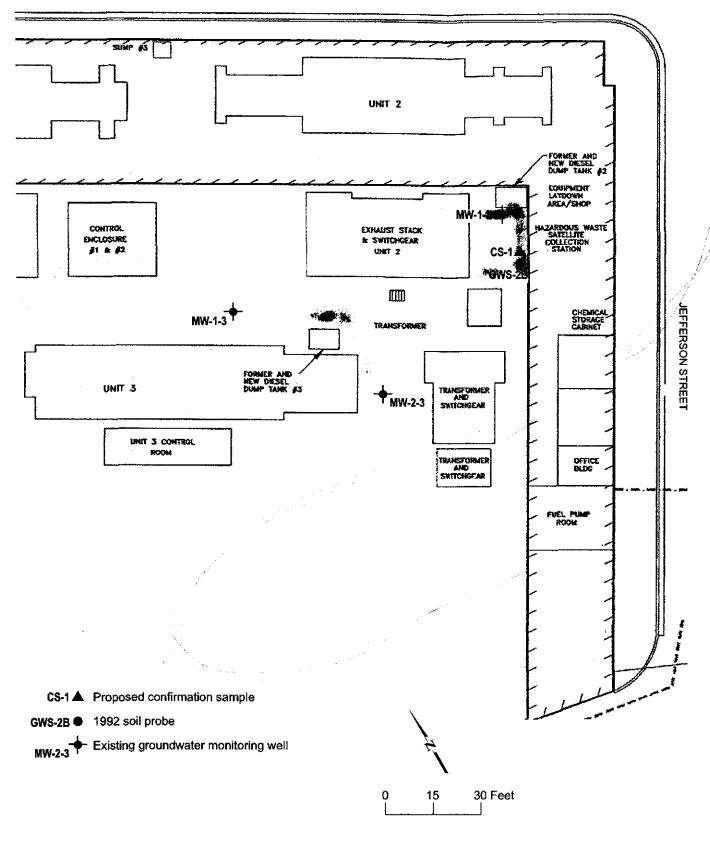
Attachments:

ame Come

Anne Conner Senior Project Manager

Figure – Location of proposed confirmation soil probe, 1 page.
 Uniform Hazardous Waste Manifest Nos. 78312, 78313, 78314, 78317, and 78364, 5 pages.

EMBARCADERO WAY



Attachment 1. Location of proposed confirmation soil probe, Oakland Power Plant, Oakland, CA.

Department of mealin bervices State of California-Health and Welfare Agency. Form Approved OMB No. 2050-0039 (Expires 9-30-91) [OT] [C] [S004 Please print or type... (Form designed for use on elite (12-pitch typewriter). PIED 24 1994 Department of mealin services. 2569 Sacramento, California State of California Ŕ, Manifest 2. Page 1. Generator's US EPA ID No. Information in the shaded areas UNIFORM HAZARDOUS 679 78 311 P of is not required by Federal law. AT08:0011 WASTE MANIFEST A. Stete Mar 3. Generator's Name and Mailing Address PACIFIC GAS AND ELECTRIC CO. - OPP JR. WAY 50 MARTIN LUTHER KIN B State Generator's 94601 4. Generator's Phone + 5) 69 5- 2 5. Transporter 1 Company Name 1-800-852-7550 2354i Stamco Transporter's Phone のわる、日本語作 TUG. State Transporter's 7. Transporter 2 Company Name MANAGEMENTUS EPA ID NUMber G. State Facility's ID OHENICA **Designated Facility Name** WITHIN CALIFORNIA CALL H Facilin SK 35251 DI 93239CATO0646/1/17 CITYCA TIEMAN 14. Unit 12. Containers Total Quantity Waste No 11 US DOT Description (Including Proper Shipping Name, Hazard Class, and No. Туре Wt/Ve A HAZARDOUS WASTE SOIL AND HYDRUCARBONS) S 10 Nan GENERATOR oope Moiona State Ь. CENTER 1-800-424-8802; EPA/Other State Ċ. EPA/Other State d. EPA/ Other J. Additional Descriptions for Materials Listed Above ONSE K. Handling Codes for Wastes Listed Above Ь. . 8 THE A STATE بالأسيكي والمراجع BIN # 3101-4 FUCL ERG#31 d. C. 法法律法律 NATIONAL 7701 needed, clothing as censona 332 AEMC, 1800 用 ahore CALL 16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. SPILL If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford. Ю EMERGENCY Month Day Year Signature Printed/Typed Name ~ _ _ _ <u> (1888)</u> يجريز 17. Transporter 1 Acknowledgemant of Receipt of Materials ANSP Month Dav Year ÅN Printed/Typed Name Signatore 10/1 7912 $\langle \rangle$ Ь 11 18. Transporter 2 Acknowledgement of Receipt of Materials CASE Day Month Year Signature Printed/Typed Name Z 19. Discrepancy Indication Space F À C I L 29. Facility Owner or Operator Certification of receipt of Mazardous me erials covered T Month Day Yee Signature Printed/Typed Name Do Not Write Below This Line DHS 8022 A (1/88) EPA 8700-22 (Rev. 9-88) Previous editions are obsolete. Yellow: TSDF SENDS THIS COPY TO GENERATOR WITHIN 30 DAYS

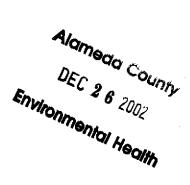
1	UNIFORM HAZARDOUS L. Generator's US EPA WASTE MANIFEST	Doci	lan Mest → sumant No	• 2. Pi	HISTING	tion in the s equired by f	
	3. Generator's Name and Mailing Address PALIFIC 615 + SO MARTIN LATHER KINS JR WAY		<u>I</u>	A. Stat	e Manifest Docum		3
ŧ	OAKLAND CA. 94607			B Stat	e Generator's ID	031	
Í	OAKLAND CA. 94607 4. Generator's Phone 4/5)695-2261					2 1.1 L	i I I Î
	5. Transporter 1 Company Name 6.	US EPA ID Number	· - ·	A 51 A	e Transporter's IC	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	7-24
	STAMCO FI	10101613577	996	5 22 J. C.S. of	aporter a Phone		51 -
1	7. Transporter 2 Company Name 8.	US EPA ID Number		र महेल्ली है छ	e Transporter's ID sporter's Phone	an a	
	9. Designated Facility Name and Site Address	US EPA ID Number		1.7.7. Mar. 1	e Facility's ID		Sterige of
	9. Designated Facility Name and Site Address CHETTY ICAL WAST MANAGEMINT POINT 25251 OLD SKYLINE RD.	5			TPPP	616	<u>KL</u> Í
	FRATCHMAN CITY CA. 93239	1,7,00,016,416	217	H.Fac	Hity's Phone UU - 22	25	64
			12. Cont	2 . S	13. Total	14.	
	11, US DOT Description (Including Proper Shipping Name, Hazard Cl		No.	Туре	Quantity	Unit Wt/Vol	Wa
	a NON-RCKA HAZARdons WASTE	SULID	.				211
3	(SOIL ANIS HYDROCARBO,	vs)	0.02	CM	00015	17 🛛	PA/Othe
	b.		-1-1-1-		<u>- M. F. (F</u>	S	tate
						E	PA/Othe
,		s	<u></u>	┨╌┸╌┤		S	tate
1	G						PA/Othe
							с н .,
	d.					S	tate
			1].]		Έ	PA/Othe
	BIN# 20		5 P - C - A - A	, na si s		5 61-1	uns.
	15. Special Handling Instructions and Additional Information μ 5 κ $E \mathcal{R} = \frac{1}{K} \frac{1}{2} \frac{1}{K} 1$	PRUTIES TIUR PIRATOR .	Equ	e € 11 T 1	SHCK A		
	ERS. #31 RES. FMERSKORY PLUE # 1-800-33	PIRATOR .	Equ	ri E si T	SHCK A		
	EXS #31 RES EMERSTORY FAML #1-800-33 16. GENERATOR'S CERTIFICATION: 1 hereby declare that the co and are classified, packed, marked, and labeled, and are in all national government regulations.	$P_{1}P_{2}AP_{2}P_{3}R_{3}$. $-AP_{2}P_{3}C_{3}$ Intents of this consignment arrespects in proper condition f	e fully and a for transport	ccurately by highw	described above ay according to a	by proper s pplicable in	shipping ternation
	EXS #31 RES FAMERSERVEY FAME #1-800-33 16. GENERATOR'S CENTIFICATION: I hereby declare that the co and are classified, packed, marked, and labeled, and are in all	P, RATOR — AE, AC ntents of this consignment ar aspects in proper condition f in place to reduce the volum cticable method of treatment, OB # I am a small quantity of	re fully and a for transport ne and toxici i, storage, of generator. II	ccurately by highw ty of was	described above ay according to a tegenerated to th currently available	by proper s pplicable in the degree i to me whit ort to minim	shipping ternation have det ch minim vize my v
	EXE TO REST REST. FAMERSEARCY FAILS FI-ECU-334 16. GENERATOR'S CERTIFICATION: I hereby declare that the co and are classified, packed, marked, and labeled, and are in all national government regulations. If I am a large quantity generator, I certify that I have a program to be economically practicable and that I have selected the pra- present and future threat to human health and the environment; generation and select the best waste management method that Printed/Typed Name,	P, RATOR — AE, AC ntents of this consignment ar aspects in proper condition f in place to reduce the volum cticable method of treatment, OB # I am a small quantity of	re fully and a for transport ne and toxici , storage, or generator, l can alford.	ccurately by highw ty of waa diaposal nave mac	described above ay according to a tegenerated to th currently available	by proper s pplicable in the degree i to me whit ort to minim	shipping ternation have det ch minim
	EXS RES EMERSTOR'S CERTIFICATION: 1 hereby declare that the co and are classified, packed, marked, and labeled, and are in all national government regulations. If I am a large quantify generator, I certify that I have a program to be economically practicable and that I have selected the pra present and future threat to human health and the environment; generation and select the best waste management method that Printed/Typed Name, EARY EARY EARY	P. R. TOR A.E J.C. metents of this consignment an respects in proper condition f in place to reduce the volum cticable method of treatment, OR, if I am a small quantity of is available to me and that I	re fully and a for transport ne and toxici i, storage, of generator. II	ccurately by highw ty of waa diaposal nave mac	described above ay according to a tegenerated to th currently available	by proper s pplicable in the degree i to me whit ort to minim	shipping ternation have det ch minim vize my w
A	EXE TO REST REST. FAMERSEARCY FAILS FI-ECU-334 16. GENERATOR'S CERTIFICATION: I hereby declare that the co and are classified, packed, marked, and labeled, and are in all national government regulations. If I am a large quantity generator, I certify that I have a program to be economically practicable and that I have selected the pra- present and future threat to human health and the environment; generation and select the best waste management method that Printed/Typed Name,	P. R. TOR A.E J.C. metents of this consignment an respects in proper condition f in place to reduce the volum cticable method of treatment, OR, if I am a small quantity of is available to me and that I	re fully and a for transport ne and toxici , storage, or generator, l can alford.	ccurately by highw ty of waa diaposal nave mac	described above ay according to a tegenerated to th currently available	by proper s pplicable in: ne degree i e to me whit ort to minim f	shipping ternation have det ch minim vize my v
Ř A N	EXE THE REST REST. FAMERSTOR'S CERTIFICATION: I hereby declare that the co and are classified, packed, marked, and labeled, and are in all national government regulations. If I am a large quantity generator, I certify that I have a program to be economically practicable and that I have selected the pra present and uture threat to human health and the environment; generation and select the best waste management method that Printed/Typed Name, EARY Kushnick 17. Transporter 1 Acknowledgement of Receipt of Materials Printed/Typed Name, CARIO, MARAMA	P. R. TOK . -AE. AC ntents of this consignment ar- respects in proper condition f in place to reduce the volum cticable method of treatment, OR, if I am a small quantity of is available to me and that I Signature Magnatic Magn	re fully and a for transport ne and toxici , storage, or generator, l can alford.	ccurately by highw ty of waa diaposal nave mac	described above ay according to a tegenerated to th currently available	by proper s pplicable in: ne degree i e to me whit ort to minim f	shipping ternation have det ch minim lize my w Month \tilde{C}
RANSPO	EXS RES EXS FAMERSEARCY FAMERSEARCY FAME I6. GENERATOR'S CERTIFICATION: I hereby declare that the co and are classified, packed, marked, and labeled, and are in all national government regulations. H I am a large quantity generator, I certify that I have a program to be economically practicable and that I have selected the pra- present and future threat to human health and the environment; generation and select the best waste management method that Printed/Typed Name, CARY CASANCLL 17. Transporter 1 Acknowledgement of Receipt of Materials Printed/Typed Name, CARY Materials Printed/Typed Name, CARY Materials 18. Transporter 2 Acknowledgement of Receipt of Materials	P. R. TOK . AE C Intents of this consignment ar- respects in proper condition f in place to reduce the volum cticable method of treatment, OR, if I am a small quantity of is available to me and that I Signature Signature Signature Signature	re fully and a for transport ne and toxici , storage, or generator, l can alford.	ccurately by highw ty of waa diaposal nave mac	described above ay according to a tegenerated to th currently available	by proper s pplicable int e degree i l e to me while ort to minim	shipping ternation have det ch minim lize my v Month \tilde{C}
RANSP	EXE THE REST REST. FAMERSTOR'S CERTIFICATION: I hereby declare that the co and are classified, packed, marked, and labeled, and are in all national government regulations. If I am a large quantity generator, I certify that I have a program to be economically practicable and that I have selected the pra present and uture threat to human health and the environment; generation and select the best waste management method that Printed/Typed Name, EARY Kushnick 17. Transporter 1 Acknowledgement of Receipt of Materials Printed/Typed Name, CARIO, MARAMA	P. R. TOK . - AE, AC ntents of this consignment ar- respects in proper condition f in place to reduce the volum cticable method of treatment, OR, if I am a small quantity of is available to me and that I Signature Magnatic Mag	re fully and a for transport ne and toxici , storage, or generator, l can alford.	ccurately by highw ty of waa diaposal nave mac	described above ay according to a tegenerated to th currently available	by proper s pplicable int e degree i l e to me while ort to minim	shipping ternation ch minim lize my v Month OIII Month
AN	EXE THE REST REST. FAMERSTOR'S CERTIFICATION: I hereby declare that the co and are classified, packed, marked, and labeled, and are in all national government regulations. If I am a large quantity generator, I certify that I have a program to be economically practicable and that I have selected the pra present and uture threat to human health and the environment; generation and select the best waste management method that Printed/Typed Name, EARY Kushnick 17. Transporter 1 Acknowledgement of Receipt of Materials Printed/Typed Name, CARIO, MARAMA	P. R. TOK . - AE, AC ntents of this consignment ar- respects in proper condition f in place to reduce the volum cticable method of treatment, OR, if I am a small quantity of is available to me and that I Signature Magnatic Mag	re fully and a for transport ne and toxici , storage, or generator, l can alford.	ccurately by highw ty of waa diaposal nave mac	described above ay according to a tegenerated to th currently available	by proper pplicable ne degree e to me w	
RANSPORTER FAC	EXS RES EXS FAMERSEARCY FAMERSEARCY FAME I6. GENERATOR'S CERTIFICATION: I hereby declare that the co and are classified, packed, marked, and labeled, and are in all national government regulations. H I am a large quantity generator, I certify that I have a program to be economically practicable and that I have selected the pra- present and future threat to human health and the environment; generation and select the best waste management method that Printed/Typed Name, CARY CASANCLL 17. Transporter 1 Acknowledgement of Receipt of Materials Printed/Typed Name, CARY Materials Printed/Typed Name, CARY Materials 18. Transporter 2 Acknowledgement of Receipt of Materials	P. R. TOK . AE C Intents of this consignment ar- respects in proper condition f in place to reduce the volum cticable method of treatment, OR, if I am a small quantity of is available to me and that I Signature Signature Signature Signature	re fully and a for transport ne and toxici , storage, or generator, l can alford.	ccurately by highw ty of waa diaposal nave mac	described above ay according to a tegenerated to th currently available	by proper s pplicable int e degree i l e to me while ort to minim	hipp terna have ch m bize n Monti
RANSPORTER FA	EXS FXS FAMERSEARCY FAME IG. GENERATOR'S CENTIFICATION: I hereby declare that the co and are classified, packed, marked, and labeled, and are in all national government regulations. H I am a large quantity generator, I certify that I have a program to be economically practicable and that I have selected the pra present and future threat to human health and the environment; generation and select the best waste management method that Printed/Typed Name. EARY EARY EASA I7. Transporter 1 Acknowledgement of Receipt of Materials Printed/Typed Name. I8. Transporter 2 Acknowledgement of Receipt of Materials Printed/Typed Name	P. R. TOK . -AEIAC intents of this consignment ar respects in proper condition f in place to reduce the volum citicable method of treatment, OR, if I am a small quantity of is available to me and that I Signature Signature Signature	re fully and a for iransport second toxici storage, or generator, I I can afford.	ccurately by highwas diaposal nave mac	described above ay according to a te generated to th currently available a good faith eff	by proper s pplicable int e degree i l e to me while ort to minim	shippini ternatic have do ch mini lize my Month O
RANSPORTER FACILIT	EXS RES FAMARSENSY FAME FIGURES 16. GENERATOR'S CERTIFICATION: I hereby declare that the co and are classified, packed, marked, and labeled, and are in all national government regulations. II hereby declare that the co and are classified, packed, marked, and labeled, and are in all national government regulations. II am a large quantity generator, I certify that I have a program to be economically practicable and that I have selected the pra present and future threat to human health and the environment; generation and select the best waste management method that Printed/Typed Name. CARY I7. Transporter 1 Acknowledgement of Receipt of Materials Printed/Typed Name. 18. Transporter 2 Acknowledgement of Receipt of Materials Printed/Typed Name 19. Discrepancy Indication Space 20. Facility Owner or/Operator Certification of receipt of hazardolis Printed/Typed Name 20. Facility Owner or/Operator Certification of receipt of hazardolis Printed/Typed Name	P. R. I TOK . A E . I C intents of this consignment arrespects in proper condition f in place to reduce the volum citicable method of treatment, OR, if I am a small quantity of is available to me and that I Signature Signature Signature Signature Signature	e fully and a for transport ne and toxici storage, or generator, I can afford.	ccurately by highwas diaposal nave mac	described above ay according to a te generated to th currently available a good faith eff	by proper s pplicable int e degree i l e to me while ort to minim	shipping ternatio have de ch mini hize my Month

	Int or type. (Form designed for use on elite (12-pitch typewriter). • UNIFORM HAZARDOUS WASTE MANIFEST	1679 Docum	ent No. 31/14	of is not re	ion in the shaded areas quired by Federal law
	Generator's Name and Mailing Address	.co0PP	A. St	te Manifest Docume	nt Number
	PACIFIC SA SHER KING JR WA		B. St	ate Generator's ID	
ſ	4. Generator's Phane (415 10952261 04K)	LANGCA4	<u>+001 / / / / / / / / / / / / / / / / / / </u>	YHQ36	<u>=pointre</u>
550	5. Transporter 1 Company Name	US EPA ID Number	7 7 7 GJ	ansporter's Phone	NON TIM
852-1	7. Transporter 2 Company Name 8.	US EPA ID Number	· >* ···	ate Transporter's ID	
1-800-852-7550	9. Designated Facility Name and Site Address	LIS SPAND Number		ate Facility's ID	1 Inina
CALL 1	CHEMEAL WASTC MANAGEME		C	Cility's Phone	69611
	35 251 OCD SALLINE 3239	001064161		300 22	22396
CALIFORNIA	11. US DOT Description (Including Proper Shipping Name, Hazard Class, at	nd ID Number)	12. Containers No. Type	13. Totai Quantity	14. Unit Waste No Wt/Vol
ALIF	ALAL ODALLADAONS LACTE	= SUN	NO. 1990		State 4
t≩ g	NUN KLAAMACAAN WASI		ODALM		LY EPANOD
CENTER 1-800-424-8802; WITHIN 800-424-8802; WITHIN	SOIL AND HYDROUARDINS	·		1 CALL AND CO	Stale
208 A	÷.				EPA/Other
424-8 A 0 F	c		<u> </u>	╶┼╴┸┈┹╌┹╶	State
800					EPA/Other
÷ E	d.		┝┅┸╾┸╌┼╴┶	<u>╶</u> ┤_┨_┨_┠╤ │	State
					EPA/Other
Sec. 1	J. Additional Descriptions for Materials Listed Above		K.I	tandling Godes for	Nastes Listed Above
Ý I	11A-SULL CONTAMINATED	J WITH		<u> </u>	
	DIESEL FIEL (70-12000	PPM)	् c. ६ के विदेश	Bastor otsator	
NATIONAL	EPE A SI				
NAT	15. Special Bandling Instructions and Additional Information USE PERSONAL PROTECTIV	E (LOTT	4,NG	AS N	EEPER
뽇	PROFILE J13009 JUL	\overline{I} $n n e n H n$	NE	1910 2:	
CALL	16.	TURPHO	Ne /	000 3	SJAENI
SPHLL, (16. GENERATOR'S CERTIFICATION: I hereby declare that the contents and are classified, packed, marked, and labeled, and are in all respe-				
	national government regulations. If I am a large quantity generator, I certify that I have a program in plu to be economically practicable and that I have selected the practical	ace to reduce the volume	and toxicity of w storage, or dispo	raste generated to ti sal currently availab	he degree I have determin le to me which minimizes
К	to be economically practicable and that I have selected the practical present and future threat to human health and the environment; OR, i generation and select the best waste management method that is av			nade a good faith ef	
	Printed/Typed Name	Signature		TT	Month Day
VER V	17. Transporter 1 Acknowledgement of Receipt of Materials	I / U Wa		ekh a	A 0117
	Printed / Typed Name	Signature	N		Month Day
d S C F	18. Transporter 2 Acknowledgement of Receipt of Materials	1.10-	and the second s		
CASE	Printed/Typed Name	Signature		· · · · · · · · · · · · · · · · · · ·	Month Day
Z R	19. Discrepancy Indication Space				<u>_</u> <u></u>
F					-
ÂC					
נ. 1 ד	20. Facility Owner or Operator Certification of receipt of hazardous mate		anifest except as	noted in Item 19.	Month Day
ΪÝ	Frinted/Typed Name Erne, + J Ave G. C. to	Signature	a.	<u>Like</u>	OLVV
	L Pher // 41. C	Write Below This Li	ne		
DHS 802 EPA 870			_		

	UNIFORM H	AZARDOUS		US EPA ID NO	16791	Manifest Document No 18 1211	_			he shaded area by Federal law
1	Generator's Name		FLECT	RIC CO.	-OAKU	ANDP.	7 A. Sta	te Manifest Dr	2789	nber 2023 Subr
2	DMART	NLUT	HER KIN	GJP.	WAY	.932	34 B. St.	te Generator	D	8798
	Generator's Phone	<u>45.69</u>	512261	<u> </u>	KLAND		C St	te Transporte		0/10
5.	STAMC	O INC	· ·	ĊAD	06356	1799	- 20 SP-11	nsporter's Ph		321/1
7.	Transporter 2 Comp	any Name		8.	USEPAID Num	iber	10 Mil 10 E	te Transporte naporter's Ph		
6	Designated Facility	Name and Site Ad	TF MAI	JAº6EA	AP FRA TONUT	iber	9-51	ta Facility'a (244	UN.
	(525)	ops	KYLIN	E RU	AD 9	397	H.F.	ility Phone	20-	09h4
K	FTTLE	MAN C	ITY, CA	CAT	0000	10/1	Containers	13. Total		Waste
1	1. US DOT Descripti	on (including Prop			nd ID Number)		. Туре	Quant	ity Unit Wt/Vg	
9	UN-KCF	AINL	ARDOU	2 MA	19 300	4			-	EPAION
-	SOIL AN	U HYDE	OCANB	2 40		_ 00	PCF	0001		State
		٦		<i>1</i> 1						EPA/Other
	<u> </u>					<u> </u>	┸┼╍┸			State
c	•									EPA/Other
				<u> </u>			┸╬┸	<u></u>	╶┸┤┈╾	Slate
ď										EPA/Other
L	Littleinnal Description	tions for Materials	Listed Above	*	AL ALCO	EI -	K. ł	landling Code	for Westes	Listed Above
	IA-SIIC	CONT	MINAT	DNI D		مارام		O_{-}	5	
	71 2 1	2 Ê 9 4	*31.			જેલાં હુમુક વર્ષે અહેં. જે અહેં સામ હેન્દ્ર સાથે	C.	and the second	d.	- Andrewski (* 1997)
	126.5		The second second second second second	10.0 Jan 19		3. A. S.		and the second second	and seen a second	
			te state i state		- All		-	AN G	Λ <u>ς</u>	THEN
	NCL 15. Special Handling	1000	Additional, Information	PROTE	TIVE	<u> </u>	THI	NG	AS 1	NEP
	15. Special Handling WEAR PEDFILE	1000000 E J130	Additional Information	PROTE	N#5.	СЦ 3 РЦЛ	STHI BIAN	NG En	AS /	NEP
	15. Special Handling WEAR PEOFILE	(#25:01 E J 130	Solitional Information	PROTE BI 24	N#5. HOUR	сц з РНО	NE	1800	A 5 / G 332	NEED AEMO
	15. Special Handling WEAR PEOFILE 15. GENERATOR'S and are classifi	CERTIFICATION:	Additional Information	APOTE BI 24	TIVE N#5. HOUR sol this consignments in proper const	CLL 3 PHO intent are fully :	NE and accurat	N G 1800 ely described hway accordir	A 5 / W 332 above by pro	AEM (
	16. Special Handling WEAR PEOFILE 16. GENERATOR'S and are classific national govern # I are a large of	CERTIFICATION: ed, packed, marke ment regulations.	I certify that I have	a program in pi	ace to reduce the	volume and t	oxicity of w	aste generate	d to the deg vailable to m	ree i have dete e which minimiz
	15. Special Handling WEAR PEOFILE 16. GENERATOR'S and are classifik national govern If I am a large q to be economic	CERTIFICATION: ed, packed, marke ment regulations. wantity generator, ality practicable am	I certify that I have ad that I have select	a program in pi ed the practica	ace to reduce the ble method of trea	volume and t utment, storag	oxicity of w ge, or dispo or, 1 have n	aste generate	d to the deg vailable to m	ree I have dete e which minimiz minimize my wa
	15. Special Handling WEAR PEOFILE 15. GENERATOR'S and are classifi national govern If I am a large q to be economic present and futu generation and Printed/Typed Name	CERTIFICATION: ed, packed, market ment regulations. usantity generator, aliv practicable and select the best wa	I certify that I have that I have select in health and the en aste management m	a program in pi ed the practica	ace to reduce the ble method of trea	volume and t atment, storag antity general that I can aff	oxicity of w ge, or dispo or, 1 have n ford.	aste generate	d to the deg vailable to m	ree I have dete e which minimiz minimize my wa Month
	15. Special Handling WEAR PEOFILE 16. GENERATOR'S and are classifik national govern H I am a large q to be economic present and fut generation and Printed/Typed Name	CERTIFICATION: ed, packed, marke ment regulations. usantity generator, ally practicable and ure threat to huma select the best wa	I certify that I have that I have select in health and the en aste management m	a program in p ed the practica vironment; OR, ethod that is a	ace to reduce the ble method of trea if I am a small qui vailable to me and	volume and t atment, storag antity general that I can aff	oxicity of w ge, or dispo or, 1 have n	aste generate	d to the deg vailable to m	ree 1 have dete e which minimiz minimize my wa Month
F	5. Special Handling WEAR PEOFILE 6. GENERATOR'S and are classified national govern H I am a large of to be economic present and fut generation and Printed/Typed Name	CERTIFICATION: ed, packed, marke ment regulations. uantity generator, ally practicable an ure threat to huma select the best we cknowledgement of	I certify that I have that I have select in health and the en aste management m	a program in p ed the practica vironment; OR, ethod that is a	ace to reduce the ble method of trea if I am a small qui vailable to me and	volume and t atment, storag antity general that I can aff	oxicity of w ge, or dispo or, 1 have n ford.	aste generate	d to the deg vailable to m	ree I have dete e which minimi minimize my wa Month Month
	15. Special Handling WEAR PEOFILE 16. GENERATOR'S and are classifik national govern # I am a large of present and fut generation and Printed/Typed Name	CERTIFICATION: ed, packed, marke ment regulations. usantity generator, ally practicable an ure threat to huma select tha best was cknowledgement of g	I certify that I have to that I have select in health and the en aste management m	a program in pi ed the practica wironment; OR, ethod that is a als	ace to reduce the ble method of tree it I am a small qui railable to me and Signature	volume and t atment, storag antity general that I can aff	oxicity of w ge, or dispo or, 1 have n ford.	aste generate	d to the deg vailable to m	Month
	15. Special Handling WEAR PEOFILE 16. GENERATOR'S and are classified national governi H am a large governi H am a large governi H am a large governi H am a large governi to be economic present and fut generation and Printed/Typed Name	CKnowledgement	I certify that I have to that I have select in health and the en aste management m	a program in pi ed the practica wironment; OR, ethod that is a als	ace to reduce the ble method of tree it I am a small qui railable to me and Signature	volume and t atment, storag antity general that I can aff	oxicity of w ge, or dispo or, 1 have n ford.	aste generate	d to the deg vailable to m	Month
TRANSPORTER	15. Special Handling WEAR PEOFILE 16. GENERATOR'S and are classifi- national governer # I am a large q to be economic present and turt generation and Printed/Typed Name 17. Transporter 1 A Printed/Typed Name 18. Transporter 2 A Printed/Typed Name	CERTIFICATION: ed, packed, marke ment regulations. usantity generator, aliv practicable and ure threat to huma select the best we cknowledgement of g	I certify that I have that I have select in health and the en aste management m of Receipt of Materi of Receipt of Materi	a program in pi ed the practica vironment; OR, ethod that is a als	ace to reduce the ble method of trees it I am a small qui railable to me and Signature Signature Signature	volume and atment, storageneral that I can aft	oxicity of w ge, or dispo or, 1 have n ford.	aste generate	d to the deg vailable to m	Month
TRANSPORTER	15. Special Handling WEAR PEOFILE 15. GENERATOR'S and are classifi- national governer # I am a large q to be economic present and turt generation and Printed/Typed Name 17. Transporter 1 A Printed/Typed Name 18. Transporter 2 A Printed/Typed Name	CERTIFICATION: ed, packed, marke ment regulations. usantity generator, aliv practicable and ure threat to huma select the best we cknowledgement of g	I certify that I have that I have select in health and the en aste management m of Receipt of Materi of Receipt of Materi	a program in pi ed the practica vironment; OR, ethod that is a als	ace to reduce the ble method of trees it I am a small qui railable to me and Signature Signature Signature	volume and atment, storageneral that I can aft	oxicity of w ge, or dispo or, 1 have n ford.	aste generate	d to the deg vailable to m	Month
TRANSPORTER	15. Special Handling WEAR PEOFILE 15. GENERATOR'S and are classifi- national governer # I am a large q to be economic present and turt generation and Printed/Typed Name 17. Transporter 1 A Printed/Typed Name 18. Transporter 2 A Printed/Typed Name	CERTIFICATION: ed, packed, marke ment regulations. usantity generator, aliv practicable and ure threat to huma select the best we cknowledgement of g	I certify that I have that I have select in health and the en aste management m of Receipt of Materi of Receipt of Materi	a program in pi ed the practica vironment; OR, ethod that is a als	ace to reduce the ble method of trees it I am a small qui railable to me and Signature Signature Signature	volume and atment, storageneral that I can aft	ioxicity of w je, or dispo or, i have n ord.	aste generate	d to the deg vailable to m	Month
TRANSPORTER	15. Special Handling WEAR PEOFILE 16. GENERATOR'S and are classifik national govern #1 am a large of to be economic present and fut generation and Printed/Typed Name 10. Transporter 1 A Printed/Typed Name 19. Discrepancy Inc ReSOLY CO	CERTIFICATION: ed, packed, marke ment regulations. usantity generator, ality practicable am ure threat to huma select the best was cknowledgement of generation cknowledgement of generation generation cknowledgement of generation	I certify that I have the that I have select in health and the en- aster management m of Receipt of Materi of Receipt of Materi II SQ John USQ John	a program in pi ed the practica wirronment; OR, ethod that is an als ials	ace to reduce the ble method of treat it I am a small qui railable to me and Signature Signature Signature Signature	volume and atment, storage atment, storage that I can aft be a storage be storage be a storage be a storage be a storage be a storage b	ioxicity of w je, or dispo or, i have n ord.	aste generate sal currently a ade a good fz	d to the deg vallable to m aith effort to	ree I have dete e which minimiz minimize my wa Month I 10 1 12 Month
	15. Special Handling WEAR PEOFILE 15. GENERATOR'S and are classifi- national governer # I am a large q to be economic present and turt generation and Printed/Typed Name 17. Transporter 1 A Printed/Typed Name 18. Transporter 2 A Printed/Typed Name	CERTIFICATION: ed, packed, marke ment regulations. uantity generator, alty practicable an ure threat to huma select the best was cknowledgement of JCHH icknowledgement of a blication Space W/ MCH A B of Operator Certific	I certify that I have the that I have select in health and the en- aster management m of Receipt of Materi of Receipt of Materi II SQ John USQ John	a program in pi ed the practica wirronment; OR, ethod that is an als ials	ace to reduce the ble method of treat it I am a small qui railable to me and Signature Signature Signature Signature	volume and atment, storage atment, storage that I can aft be a storage be storage be a storage be a storage be a storage be a storage b	ioxicity of w je, or dispo or, i have n ord.	aste generate sal currently a ade a good fz	d to the deg vallable to m aith effort to	Month

Texic Subatances Control Division -Health and Welfare Agency State of California-12 1221 Form Approved OMB No. 2050-0039 (Expires 9-30-91) FEB Sacramento, California Please print of type. (Form designed for use on elite (12-pitch typewriter). Manifest Document No 1. Generator's US EPA ID No. UNIFORM HAZARDOUS Information in the shaded areas is not required by Federal law. WASTE MANIFEST 1QISILA A., State Manite erator's Name and Mailing Addres PACIFIC B. State UTM ŧ٨ 1-800-424-8802; WITHIN CALIFORNIA CALL 1-800-852-7660 5. Transporter 1 Co n M State Transporte rter 2 Company Name È. F. Transporter's Phone State Facility's ID ATOODGIGGINZ 12. Containe 13. Total 14. Unit Quantity Number) DOT Description No. Туре Wt/Vo NTE.SOUD GENERATOR CM 201 OOli EPA/Othe State C. EPA/Other 0.00000 CENTER State d. EPA/Other NSE I Additional Descriptions for Materials Listed Aborn ATED WITH DIESEL K. Handling Codes for Wastes Listed Above â. b. 進火流 FX6 #31 d. ž NATIONAL TIVE CLOT BIN # OUR PHONE PKU) 빌 CALL GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and SPILL, national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste ő EMERGENCY generation and select the best waste management method that is available to me and that I can afford. Signature Month Day Year Printed/Typed Name \sim 17. Transporter 1 Acknowledgement of Receipt of Materials RANSP Month Dav Year AN Signature Printed/Typed Name Y 61212171 ļ Р 18. Transporter 2 Acknowledgement of Receipt of Materials CASE Day Year Month Signature Printed/Typed Name z 19. Discrepancy Indication Space F A C I 20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item Т Oa) Year Printed/Typed Name Şignatu<u>re</u> W 2H 912 Do Not Write Below This Line DHS 8022 A (1/88) EPA 8700-22 (Rev. 9-88) Previous editions are obsolete. 4.046355

TES



Report Confirmation Soil and Groundwater Sampling Near Diesel Dump Tank No. 2 Oakland Power Plant

December 06, 2002

Prepared by

Technical and Ecological Services

Prepared for

Environmental Affairs Pacific Gas and Electric Company

December 2002

Report No.: 402.331-02.114

Pacific Gas and Electric Company Technical and Ecological Services 3400 Crow Canyon Road, San Ramon, California 94583

TES 24-Hr. Service Line: 8-251-3197 or (925) 866-3197



Technical and Ecological Services 3400 Crow Canyon Road San Ramon, CA 94583

925.820.2000

December 19, 2002

Ms. Eva Chu Hazardous Materials Specialist Alameda County Health Care Services Environmental Protection 1131 Harbor Way Parkway, Suite 250 Alameda, CA 94502-6577

Subject: Oakland Power Plant, Report on Confirmation Soil and Grab Groundwater Sampling Near Diesel Dump Tank No. 2

Dear Ms.Chu:

Enclosed is a copy of a Pacific Gas and Electric company (PG&E) Technical and Ecological Services report titled, "Report, Confirmation Soil and Groundwater Sampling Near Diesel Dump Tank No. 2, Oakland Power Plant, December 06, 2002" (Enclosure 1). Confirmation sample probe CS-1 was located adjacent to 1992 probe GWS-2B, and was advanced to a total depth of 12 feet. Groundwater was measured at 5.5 feet.

The laboratory results confirmed the presence of diesel in soil and groundwater. The following concentrations of diesel were reported in the three tested soil samples and the two grab groundwater samples.

- 5.0 mg/Kg at 4.5 feet (soil).
- 7,600 mg/Kg at 6.0 feet (soil).
- 1.8 mg/Kg at 11.5 feet (soil).
- 900 ug/L at 5.5 feet (grab groundwater sample).
- 880 ug/L at 5.5 feet (duplicate groundwater sample).

Please note that the concentration of diesel in the soil was very much lower above and below the 6.0-foot sample. Also note that the 880 to 900 ug/L diesel in the groundwater was three orders of magnitude less than the concentration of 160,000 ug/L reported in 1992. Because the solubility of diesel in water is approximately 5,000 ug/L (Ref: International Programme on Chemical Safety internet link: <u>http://www.inchem.org/documents/ehc/ehc/ehc171.htm</u>), PG&E believes that the 2002 laboratory data for the water samples is more representative and accurate than the 1992 data.

Ms. Eva Chu December 19, 2002 Page 2

Also enclosed for your reference is a copy of the PG&E 2002 Groundwater Monitoring and Sampling Annual Report that was transmitted to the SFRWQCB on April 23, 2002 (Enclosure 2). Table 1 in that report presents a summary of analytical results of groundwater samples collected from three monitoring wells (MW-1-2, MW-1-3, MW-2-3) since 1993.

Based on the favorable results of this investigation and the low concentrations of diesel-range hydrocarbons measured in annual groundwater samples collected from the three monitoring wells during the past five years, we believe that no additional monitoring is warranted at this site. Therefore, Pacific Gas and Electric Company requests that you issue a "no-further-action" letter.

Please feel free to contact me at 925.866.5883 if you have any questions about this confirmation sampling.

JOHN WOODRUFF

JWW(925-866-5883):cap 402_331-02_114 ltr-r1.doc

pc: Ms. Priya Ganguli
 San Francisco Regional Water Quality Control Board
 Planning & Policy Division
 1515 Clay St. Suite 1400
 Oakland, CA 94612

Enclosures



Prepared by:

John W. Woodruff Registered Geologist

Approved by:

Land and Water Quality Unit Supervisor

i

TABLE OF CONTENT

Page

Letter of transmittal

1	INTRODUCTION	1
2	BACKGROUND	1
3	CONFIRMATION SAMPLING AND ANALYSIS	1
4	RESULTS	2
	Appendix A – FIGURES AND TABLES	
	Figure 1. Site Plan	
	Table 1. Diesel Concentrations in CS-1 Soil and Grab Groundwater Samples	
	Appendix B - LOG OF CONFIRMATION SAMPLE DIRECT PUSH SOIL PROBE CS-1	

Appendix C - CHAIN-OF-CUSTODY AND CHEMICAL LABORATORY REPORT

1 INTRODUCTION

This report presents the results of October 31 2002 confirmation sampling of soil and grab groundwater from a soil probe. This soil probe, designated CS-1, was located approximately one foot southwest of a previous soil probe (GWS-2B), advanced on October 6 1992. These probes are located about 20 feet south of Diesel Dump Tank No. 2, as shown on the Site Plan (Figure 1). The purpose of the 2002 probe was to confirm the 1992 results and to further delineate diesel concentrations in the groundwater. This additional work was requested in a June 4, 2002 letter from Ms. Eva Chu of Alameda County Environmental Health Care Services Environmental Protection to Mr. Korbin Creek of Pacific Gas and Electric Company Technical and Ecological Services.

2 BACKGROUND

The 1992 probe GWS-2B was advanced to a total depth of 10 feet. A grab groundwater sample collected at a depth of 6.2 feet was reported to contain 160 mg/L diesel, which is considered to be an unusually high concentration. A soil sample collected at 6 feet was reported to contain 310 mg/Kg diesel. The log of GWS-2B indicates that floating product was not observed (PG&E, January 1993, Shallow Soil and Groundwater Investigation Surrounding the Diesel Dump Tanks at PG&E's Oakland Power Plant, Alameda County, California).

3 CONFIRMATION SAMPLING AND ANALYSIS

The October 31, 2002 confirmation sample soil probe CS-1 was advanced to a total depth of 12 feet. Gregg Drilling and Testing, Inc. (Martinez, CA) performed the exploration with a track-mounted rig. Groundwater was measured at 5.5 feet. Soil samples were collected, examined, and logged. A groundwater sample and a duplicate sample were also collected. Descriptions of the subsurface conditions and sampling information are presented on the log of this probe (Appendix B).

Soil samples were collected using the Geoprobe Macro-Core sampler, which recovers 1.5-inch diameter soil samples in 4-foot long, clear plastic, Cellulose Acetate Butyrate (CAB) tubes. Samples that were retained were cut from the tube in 4-inch lengths, capped, labeled, and placed on ice in a cooler.

The grab groundwater sample and duplicate sample from the uppermost water-bearing zone were collected using 3/4-inch diameter threaded PVC pipe with a 5-foot long slotted section (0.02-inch wide slots) at the bottom. First, the DP rods were removed from the borehole once the hole was completed. The water line on the DP rods indicated a groundwater depth of 5.5 feet. The 5-foot length of slotted

1

pipe was then lowered into the open borehole and a 5-foot long section of solid PVC pipe was threaded onto it until the slotted section was within the upper water –bearing zone. Then, a stainless steel mini-bailer was lowered into the pipe, and the samples were collected by emptying the bailer into sample jars until filled. Water samples were examined for hydrocarbon sheen and odor. The sample bottles were labeled and placed on ice in a cooler.

Following the completion of the probe, the borehole was tremie-grouted with neat cement from the bottom of the probe hole to 0.5 feet. The upper 0.5 feet was capped with black-dyed concrete.

All soils brought to the surface were transported to the PG&E Technical and Ecological Services facility in San Ramon where it was manifested and shipped to Forward Landfill.

Three soil samples collected from 4.5, 6.0, and 11.5 feet and the two groundwater samples were analyzed for diesel using EPA Method 8015M by Severn Trent Laboratories, Inc. Prior to analysis, the groundwater samples were treated in the laboratory by filtering them through a 0.7-micron glass filter to remove the particulate matter. Both the soil and groundwater samples were prepared using a silica gel cleanup by EPA Method 3630 to reduce biogenic interferences.

4 **RESULTS**

Results of the soil probe investigation indicate that the explored location is underlain by sandy fill to 4.5 feet. A buried concrete slab was encountered at 1.5 to 2.0 feet. Clayey sand alluvium was encountered from 4.5 to 12.0 feet, the bottom of the probe. Groundwater was encountered at a depth of 5.5 feet (Appendix B).

Results of the chemical analyses indicate the following concentrations of diesel in the soil samples, in mg/Kg: 5.0 at 4.5 feet, 7,600 at 6.0 feet, and 1.8 at 11.5 feet. Diesel was reported in concentrations of 900 and 880 ug/L in the two grab groundwater samples. These results are summarized in Table 1, and the laboratory reports and chain-of-custody are included in Appendix C. Floating product was not observed in the water samples, however, a diesel odor and a sheen was observed.

2

Appendix A

FIGURES AND TABLES

402_331-02_114 Rpt.doc

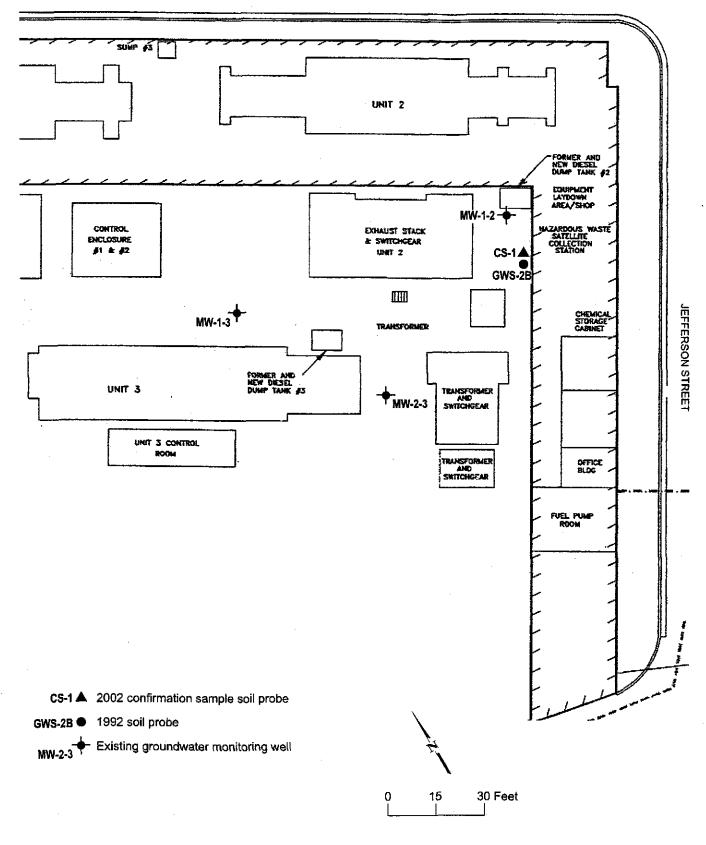


Figure 1. Site plan showing location of confirmation sample soil probe CS-1, Oakland Power Plant, Oakland, CA.

020826/oakland soil probe

Table 1. Diesel Concentrations in Soil and Grab Groundwater Samples Oakland Power Plant CS-1 Confirmation Sampling

		SOI	L SAMPLES		
SAMPLE O - Original C - Confirmation	SAMPLE ID	SAMPLE DEPTH (FEET)	SAMPLE DATE	DIESEL	FLAG
0	GWS-2BS-6.0	6.0	07-Oct-92	310	
С	CS-1-4.5	4.5	31-Oct-02	5.0	qbn
Ç	CS-1-6.0	6.0	31-Oct-02	7,600	ndp
С	CS-1-11.5	11.5	31-Oct-02	1.8	ndp

Concentrations are in milligrams per kilogram (mg/Kg).

		GRAB GROU	NDWATER SAMPLE	S	
SAMPLE O - Original C - Confirmation	SAMPLE ID	SAMPLÉ DEPTH (FEET)	SAMPLE DATE	DIESEL	FLAG
0	GWS-2B	6.2	07-Oct-92	160,000	-
C	CS-1-A	5.5	31-Oct-02	900	rl, ndp
С	CS-1-8	5.5	31-Oct-02	880	rl, ndp

Concentrations are in micrograms per liter (ug/L).

NOTES

- 1 The 1992 original alalyses were performed by National Environmental Testing Inc. (Pleasanton, CA) using an on-site mobile laboratory.
- 2 The 2002 confirmation analyses were performed by Severn-Trent Laboratory (Pleasanton, CA).
- 3 The 2002 analyses included Silica Gel Clean-up to reduce biogenic interferences.

FLAGS

rl = Analysis Flag: Reporting limits raised due to reduced sample size.

ndp = Result Flag: Hydrocarbon reported does not match the pattern of laboratory's Diesel standard. -- = No flag Appendix B

LOG OF CONFIRMATION SAMPLE SOIL PROBE CS-1

402_331-02_114 Rpt.doc

.

				DI	REC	СТ	PUS		G		_	CS-1
PG/8			P	-				er Plant Confirmation ay, Oakland, CA	on Samplin	g		page 1 of 1
		Bob Dea	son and	Tony Longoria o				Probe Location On	e foot west of	GWS-2B, ~	15'	Total Depth
	_			ubber track rig					V of Diesel Dur	np Tank No	. 2	12.0
)iameter Sampler							Surface As	phait phait surface			Water Depth 5.5
				en, steel mini-ba	iler			Water Samples Yes				Date
				.5 feet, then blac		conc	rete	Logged by Joh				31-Oct-2002
	j> (j)			<u> </u>			bol	Water Depth 1: 5.5	Date	31-Oct	Time	1100
Drive	Recovery/ Drive (feet)	Product Odor	Sample Container	Sample ID	Depth (feet)	Sample	Soil Symbol (USCS)	Water Depth 2:	Date		Time	
	Drive Drive	å Ö	Son	Sam	∆ €	Sa	G și	(neil tune, color, m	DESCRIP		ant da	naitu ata \
					- 0		AS	(soil type, color, m 0 - 0.5 ASPHALT (AS		it, consister	icy, dei	nsity, etc.)
문		5		·······		<u> </u>		0 - 1.0 POORLY GR		EL WITH	SAND	(GP) - αrav.
nd					1		GP	dry, medium dense -				(
au	N/A	No			2		CO]1.5 - 2.0 CONCRETE	(CO) - burie	d slab, ret	oar not	encountered.
Hand augered		110						2.0 - 4.5 WELL GRA				
g					3	<u> </u>	-	(SW) - dark brown to				
ର ୨					-	_	SW	small brick pieces, so	me concrete	pieces, gi		
feet					4			weathered sandstone	e and shale -	FILL.		
¥			AL	CS-1-4.5	1			-				
		SI	*	CS-1A	- 5			5.5				
	2.5/		*	CS-1B	1 6			0.0				
	3.0		AL	CS-1-6.0	. 6							
		1			7							
						<u> </u>	1					
					8		SC	4.5 - 12.0 CLAYEY S	SAND (SC) - v	very dark g	gray, v	vet, loose to
		Mo			-		36	medium dense, fine s				
					9				÷			
	2.8/											
	4.0				10							
					11		· · ·					
		SI	AL	CS-1-11.5								
				<u> </u>	12							
. []					-			Bottom of probe hole	at 12.0 feet.			
l			<u> </u>		13			* Number and Type o	f grah group	twater ear	nnle o	ontainere
				·······	-			No. Ty		THADIGI OQI	uhie ci	omanista.
					- 14				_iter glass an	ber bottle	-	
					- 15				-			
] 13							
 					16			-				
┣───					-	ļ						
 				<u> </u>	17	┣						
			<u> </u>		-	<u> </u>		1				
				·	18	<u> </u>						
					1	<u> </u>						
					19		1					I
					20							
							1					

Notes: 1) Diesel odor and sheen was observed in the water samples and on the sampling equipment. 2) Floating product was not observed on the water samples. Product Odor: No=None, SI=Slight, Mo=Moderate, St=Strong. Sample Container: AL=Acetate liner. Sample (D: bold if analyzed. Sample: black=soil, checkersd=groundwater. Soil Symbol Abbreviations: C=Clay or clayey, M=Silt or sity, O=Organic soil, L=Low plasticity, H=High plasticity, G=Gravel or gravelly, S=Sand or sandy, W=Well graded, P=Poorly graded. Consistency Terms: very soft, soft, medium stiff, stiff, very stiff, and hard. Apparent Density Terms: very loose, medium dense, dense, and very dense. Soil Components: boulders = >12", cobbles = 12" to 3", coarse gravel = 3" to 3/4", fine gravel = 3/4" to #4, coarse sand = #4 to #10, medium sand = #10 to #40, fine sand = #40 to #200. Appendix C

CHAIN-OF-CUSTODY AND CHEMICAL LABORATORY REPORT

-
5
<u>ŏ</u>
- e
¢
N
00
St
S
5
iin
Š

Pacific Gas and Electric Company

Page 1 of 1

Client			Project Manager					Date	Preparation and	pue uo	
PG&E Technical and Ecological Services (TES)	s (TES)		John Woodru	Woodruff - PG&E (jx	(jxwf@pge.com)	(u		31-Oct-2002	Analysis	sis	
Address			Telephone Number	*	Fax Number			Laboratory			
ow Canyon Road			925.866.5883	3	925.866.5681	81		STL San Francisco			
City State	Zip Code		Sile Contact					Laboratory Phone	-		
San Ramon CA	94583		None	-				925.484.1919			
Project Number/Name			Carrier/ Waybill I	vumber				Laboratory Fax	ier		
Oakland Power Plant Confirmation Sampling								925.484.1096		······································	
Contract/Purchase Order/Quote Number									seið		
4600013883	i								iese iese		
Connels I.O. Minimbox and Docordiation	ajeU	Time	Samula Tuna	Con	Containers		Preservative	Condition on Receipt/Comments	d-H		p
Sample I.D. Ivuniber and Description	2	2/11/	addi aidiina	Volume	-+	No.			19T 7.0		οΗ
CS-1-4.5	31-Oct-2002	1	Soil	115cc	Acetate	1	I	×	×		
CS-1-6.0		1	_				-				Ī
CS-1-11.5		1	A	Ť.	•						
CS-1-A		1100	Water	1000ml	Amber		None				
CS-1-B	+	1100	•	1000ml	Amber	•	None	A			
					-						
							-				
		·									
							-			-	
Special Instructions			-						·		
			\	Samula Disson							Γ
Possible Hazard denuncation	Irritant 🔲 Poison B		🗹 Unknown	Jampe Lisposa	u Client	۵ لا	Disposal By Lab	国 Archive for 3 Months			
e Required	1		QC Level		Project Specif	fic Requ	Project Specific Requirements (Specify)	(A)			
Normal C Rush C Other							÷.,				
1. Relinquished By A AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA			Date	Time A A C	1. Received By	Jan Jan			Date	Time	1
mm anal			1012-V0H-10	- <u> </u>	V				11/2/01	1111	Т
2. Relinquished By			Date	Time	2. Received By	βy			pate /	Time	
3. Relinquished By			Date	Time	3. Received By	ý			Date	Time	
Comments											
											וך

COC_OPP.xls Soil and Water 10/31/2002

Diesel with Silica Gel Clean-up

P.G.& E TES

Attn.: John Woodruff 3400 Crow Canyon Road San Ramon, CA 94583-1393 Phone: (925) 866-5883 Fax: (925) 866-5681

Project: Oakland Power Plant Confirmation Sampling

Received: 11/04/2002 17:07

SEVERN TRENT LABORATORY

STL San Francisco 1220 Quarry Lane Pleasanton, CA 94566

Tel: (925) 484-1919 Fax: (925) 484-1096 www.stl-inc.com www.chromalab.com

CA DHS ELAP# 2496

Samples Reported

Sample Name	 	 Date Sampled	Matrix	Lab #
CS-1-6.0		10/31/2002	Soil	2
CS-1-11.5		10/31/2002	Soil	3
CS-1-A		10/31/2002 11:00	Water	4
CS-1-B		10/31/2002 11:00	Water	5

Diesel with Silica Gel Clean-up

P.G.& E TES

Attn.: John Woodruff 3400 Crow Canyon Road San Ramon, CA 94583-1393 Phone: (925) 866-5883 Fax: (925) 866-5681

Project: Oakland Power Plant Confirmation Sampling

Received: 11/04/2002 17:07

CA DHS ELAP# 2496

Prep(s):	3550/8015M			Test(s):	8015	vi	
Sample ID:	CS-1-6.0			Lab ID:	2002	11-0062 - 2	
and a state of a	10/31/2002 Soil		•	Extracte QC Bat		2002 06:47 11/07-01.10	
Compound	···	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel Surrogates(s)		7600	100	mg/Kg	100.00	11/08/2002 11:02	ndp
o-Terphenyl		NA	60-130	%	100.00	11/08/2002 11:02	sd



STL San Francisco 1220 Quarry Lane Pleasanton, CA 94566

Tel: (925) 484-1919 Fax: (925) 484-1096 www.stl-inc.com www.chromatab.com

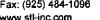
Diesel with Silica Gel Clean-up

P.G.& E TES

Attn.: John Woodruff 3400 Crow Canyon Road San Ramon, CA 94583-1393 Phone: (925) 866-5883 Fax: (925) 866-5681

Project: Oakland Power Plant Confirmation Sampling

Received: 11/04/2002 17:07



						CA DHS E	LAP# 2496
Prep(s);	3550/8015M			Test(s):	8015	VI	
Sample ID:	CS-1-11.5	Test(s): 8015M Lab ID: 2002-11-0062 - 3 Extracted: 11/7/2002 06:47 QC Batch#: 2002/11/07-01.10 Conc. RL Unit Dilution Analyzed F					
Sampled:	10/31/2002			Extracte	ed: 11/7/2	2002 06:47	
Matrix:	Soil	1. S. A.		QC Bate	:h#: 2002/	11/07-01.10	
Compound		Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel		1.8	1.0	mg/Kg	1.00	11/07/2002 18:12	ndp
Surrogates(s) o-Terphenyl)	65.2	60-130	%	1.00	11/07/2002 18:12	



STL San Francisco

1220 Quarry Lane Pleasanton, CA 94566

Tel: (925) 484-1919 Fax: (925) 484-1096 www.stl-inc.com www.chromalab.com

Diesel with Silica Gel Clean-up

P.G.& E TES

Attn.: John Woodruff 3400 Crow Canyon Road San Ramon, CA 94583-1393 Phone: (925) 866-5883 Fax: (925) 866-5681

Project: Oakland Power Plant Confirmation Sampling

Received: 11/04/2002 17:07

CA DHS ELAP# 2496

Prep(s):	3510/8015M	Test(s):	8015M
Sample ID:	CS-1-A	Lab ID:	2002-11-0062 - 4
Sampled:	10/31/2002 11:00	Extracted:	11/6/2002 06:29
Matrix:	Water	QC Batch#:	2002/11/06-01.10
Analysis Fl	ag: rl (See Legend and Note Section)		

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	900	60	ug/L	1.19	11/06/2002 14:35	ndp
Surrogates(s)						
o-Terphenyl	81.9	60-130	%	1.19	11/06/2002 14:35	



STL San Francisco 1220 Quarry Lane Pleasanton, CA 94566

Tel: (925) 484-1919 Fax: (925) 484-1096 www.stl-inc.com www.chromalab.com

Diesel with Silica Gel Clean-up

P.G.& E TES

Attn.: John Woodruff 3400 Crow Canyon Road San Ramon, CA 94583-1393 Phone: (925) 866-5883 Fax: (925) 866-5681

Project: Oakland Power Plant Confirmation Sampling

Received: 11/04/2002 17:07

CA DHS ELAP# 2496

Prep(s):	3510/8015M	Test(s):			: 8015	8015M 2002-11-0062 - 5				
Sample ID: CS-1-B				Lab ID:	2002					
Sampled:	10/31/2002 11:00			Extract	ed: 11/6/	11/6/2002 06:29				
Matrix:	Water			ich#: 2002	2002/11/06-01.10					
Compound		Conc.	RL	Unit	Dilution	Analyzed	Flag			
Diesel		880	50	ug/L	1.00	11/06/2002 15:13	ndp			
Surrogates(s) o-Terphenyl		80.7	60-130	%	1.00	11/06/2002 15:13				

11/11/2002 17:11



STL San Francisco 1220 Quarry Lane Pleasanton, CA 94566

Tel: (925) 484-1919 Fax: (925) 484-1096 www.stl-inc.com www.chromaiab.com

Diesel with Silica Gel Clean-up

P.G.& E TES

o-Terphenyl

Attn.: John Woodruff 3400 Crow Canyon Road San Ramon, CA 94583-1393 Phone: (925) 866-5883 Fax: (925) 866-5681

Project: Oakland Power Plant Confirmation Sampling

Received: 11/04/2002 17:07 .

%

STL San Francisco 1220 Quarry Lane Pleasanton, CA 94566

Tel: (925) 484-1919 Fax: (925) 484-1096 www.stl-inc.com www.chromalab.com

CA DHS ELAP# 2496

11/06/2002 15:50

Batch QC Report										
Prep(s): 3510/8015M Method Blank MB: 2002/11/06-01.10-001	e. E Alexandre	Water	Test(s): 8015M QC Batch # 2002/11/06-01.10 Date Extracted: 11/06/2002 06:29							
Compound	Conc.	RL	Unit	Analyzed	Flag					
Diesel	ND	50	ug/L	11/06/2002 15:50						
Surrogates(s)										

60-130

79.7

Diesel with Silica Gel Clean-up

P.G.& E TES

o-Terphenyl

Attn.: John Woodruff 3400 Crow Canyon Road San Ramon, CA 94583-1393 Phone: (925) 866-5883 Fax: (925) 866-5681

Project: Oakland Power Plant Confirmation Sampling

Received: 11/04/2002 17:07

%

	Batch QC Report											
Prep(s): 3550/8015M Method Blank MB: 2002/11/07-01.10-001		Soil		Test(s) QC Batch # 2002/11/0 te Extracted: 11/07/200								
Compound	Conc.	RL	Unit	Analyzed	Flag							
Diesel	ND	1	mg/Kg	11/07/2002 18:59								
Surrogates(s)												

60-130

69.4



STL San Francisco 1220 Quarry Lane Pleasanton, CA 94566

Tel: (925) 484-1919 Fax: (925) 484-1096 www.stl-inc.com www.chromalab.com

CA DHS ELAP# 2496

11/07/2002 18:59

Diesel with Silica Gel Clean-up

P.G.& E TES

LCS

LCSD

Attn.: John Woodruff 3400 Crow Canyon Road San Ramon, CA 94583-1393 Phone: (925) 866-5883 Fax: (925) 866-5681

Project: Oakland Power Plant Confirmation Sampling

Received: 11/04/2002 17:07

CA DHS ELAP# 2496

Flags

Test(s): 8015M Laboratory Control Spike Water QC Batch # 2002/11/06-01.10 2002/11/06-01.10-002 Extracted: 11/06/2002 2002/11/06-01.10-003 Extracted: 11/06/2002 Exp.Conc. RPD Ctrl.Limits % Conc. ug/L Recovery

Batch QC Report

Compound	Conc.	ug/L	Exp.Conc. Recovery		RPD	Ctrl.Limits %		Fla	Flags	
· · · · · · · · · · · · · · · · · · ·	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Diesel	894	935	1250	71.5	74.8	4.5	60-130	25		
<i>Surrogates(s)</i> o-Terphenyl	18.5	19.3	20.0	92.6	96.4		60-130	0		

Prep(s): 3510/8015M



STL San Francisco 1220 Quarry Lane Pleasanton, CA 94566

Tel: (925) 484-1919 Fax: (925) 484-1096 www.stl-inc.com www.chromalab.com

Analyzed: 11/06/2002 14:35

Analyzed: 11/06/2002 15:13

Diesel with Silica Gel Clean-up

P.G.& E TES

Surrogates(s) o-Terphenyl

Attn.: John Woodruff 3400 Crow Canyon Road San Ramon, CA 94583-1393 Phone: (925) 866-5883 Fax: (925) 866-5681

Project: Oakland Power Plant Confirmation Sampling

Received: 11/04/2002 17:07

SEVERN TRENT LABORATORY

STL San Francisco 1220 Quarry Lane Pleasanton, CA 94566

Tel: (925) 484-1919 Fax: (925) 484-1096 www.stl-inc.com www.chromalab.com

CA DHS ELAP# 2496

·····	·····		Batch QC Re	eport						
Prep(s): 3550/80	15M							-	Test(s):	8015M
Laboratory Con	rol Spike Soil QC Batch # 2002/11/				02/11/07	-01.10				
LCS 2002/ LCSD 2002/	· · ·	Extracted: 11/07/2002 Extracted: 11/07/2002			Analyzed: 11/07/2002 17 Analyzed: 11/07/2002 18					
Compound	Conc.	mg/Kg	Exp.Conc.	Rec	overy	RPD	Ctrl.Lin	nits %	Fla	gs
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Diesel	33.1	34.4	41.6	79.6	82.5	3.6	60-130	25		

20.0

80.3

84.5

60-130

0

16.9

16.1

11/11/2002 17:11

Diesel with Silica Gel Clean-up

P.G.& E TES

Attn.: John Woodruff 3400 Crow Canyon Road San Ramon, CA 94583-1393 Phone: (925) 866-5883 Fax: (925) 866-5681

Project: Oakland Power Plant Confirmation Sampling

Received: 11/04/2002 17:07

Tel: (925) 484-1919 Fax: (925) 484-1096

SEVERN

TRENT

LABORATORY

STL San Francisco 1220 Quarry Lane

Pleasanton, CA 94566

www.chromalab.com CA DHS ELAP# 2496

www.stl-inc.com

Legend and Notes

Analysis Flag

rl

Reporting limits raised due to reduced sample size.

Result Flag

ndp

Hydrocarbon reported does not match the pattern of our Diesel standard

sd

Surrogate recovery not reportable due to required dilution.

Diesel with Silica Gel Clean-up

P.G.& E TES

Attn.: John Woodruff 3400 Crow Canyon Road San Ramon, CA 94583-1393 Phone: (925) 866-5883 Fax: (926) 866-5681

Project: Oakland Power Plant Confirmation Sampling

Received: 11/04/2002 17:07

STL San Francisco 1220 Quarry Lane

Pleasanton, CA 94566

Tel: (925) 484-1919 Fax: (925) 484-1096 www.stl-inc.com www.chromalab.com

CA DHS ELAP# 2496

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
CS-1-4.5	10/31/2002	Soil	1
		<u> </u>	

SEVERN TRENT LABORATORY

11/13/2002 12:12

Diesel with Silica Gel Clean-up

P.G.& E TES

o-Terphenyl

Attn.: John Woodruff 3400 Crow Canyon Road San Ramon, CA 94583-1393 Phone: (925) 866-5883 Fax: (925) 866-5681

Project: Oakland Power Plant Confirmation Sampling

Received: 11/04/2002 17:07

1.00

11/12/2002 16:31

CA DHS ELAP# 2496

Prep(s): 3550/8015M			Test(s):	8015	8015M				
Sample ID: CS-1-4.5	Lab ID:	2002-	2002-11-0062 - 1						
Sampled: 10/31/2002 Matrix: Soil	Extracte QC Bate		11/11/2002 18:32 2002/11/11-04.10						
Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag			
Diesel	5.0	1.0	mg/Kg	1.00	11/12/2002 16:31	ndp			
Surrogates(s)	1								

60-130

%

66.0



STL San Francisco 1220 Quarry Lane Pleasanton, CA 94566

Tel: (925) 484-1919 Fax: (925) 484-1096 www.stl-inc.com www.chromalab.com

Diesel with Silica Gel Clean-up

P.G.& E TES

o-Terphenyl

Attn.: John Woodruff 3400 Crow Canyon Road San Ramon, CA 94583-1393 Phone: (925) 866-5883 Fax: (925) 866-5681

Project: Oakland Power Plant Confirmation Sampling

Received: 11/04/2002 17:07

%

CA DHS ELAP# 2496

11/12/2002 18:55

	Batch QC Report										
Prep(s): 3550/8015M Method Blank		Soil	Test(s): 8015 QC Batch # 2002/11/11-04. Date Extracted: 11/11/2002 18:3								
MB: 2002/11/11-04.10-001											
Compound	Conc.	RL	Unit	Analyzed	Flag						
Diesel	ND	1	mg/Kg	11/12/2002 18:55							
Surrogates(s)		ĺ									

60-130

77.7

11/13/2002 12:12



STL San Francisco 1220 Quarry Lane Pleasanton, CA 94566

Tel: (925) 484-1919 Fax: (925) 484-1096 www.stl-inc.com www.chromalab.com

SEVERN

Diesel with Silica Gel Clean-up

P.G.& E TES

Attn.: John Woodruff 3400 Crow Canyon Road San Ramon, CA 94583-1393 Phone: (925) 866-5883 Fax: (925) 866-5681

Project: Oakland Power Plant Confirmation Sampling

Received: 11/04/2002 17:07

CA DHS ELAP# 2496

Test(s): 8015M

Prep(s): 3550/8015M

Laboratory Control Spike

LCS 2002/11/11-04.10-002 LCSD 2002/11/11-04.10-003

Extracted: 11/11/2002 Extracted: 11/11/2002 Analyzed: 11/12/2002 17:41 Analyzed: 11/12/2002 18:18

QC Batch # 2002/11/11-04.10

Compound	Conc.	mg/Kg	Exp.Conc.	Reco	overy	RPD	Ctrl.Lin	nits %	Fla	igs
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Diesel	35.8	37.4	41.6	86.1	89.9	4.3	60-130	25		
Surrogates(s) o-Terphenyl	17.0	17.3	20.0	85.1	86.4		60-130	0		

Batch QC Report

Śoił

11/13/2002 12:12

SEVERN TRENT LABORATORY

STL San Francisco 1220 Quarry Lane Pleasanton, CA 94566

Tel: (925) 484-1919 Fax: (925) 484-1096

www.stl-inc.com www.chromalab.com

Diesel with Silica Gel Clean-up

P.G.& E TES

2

Attn.: John Woodruff 3400 Crow Canyon Road San Ramon, CA 94583-1393 Phone: (925) 866-5883 Fax: (925) 866-5681

Project: Oakland Power Plant Confirmation Sampling

Received: 11/04/2002 17:07



STL San Francisco 1220 Quarry Lane Pleasanton, CA 94566

Tel: (925) 484-1919 Fax: (925) 484-1096 www.stl-inc.com www.chromalab.com

CA DHS ELAP# 2496

Legend and Notes

Result Flag

ndp

Hydrocarbon reported does not match the pattern of our Diesel standard