

# **TANGLED WEB OF LABORATORY FRAUD IN CALIFORNIA**



**2019 NATIONAL ENVIRONMENTAL MONITORING CONFERENCE**

**Jacob Oaxaca**

**Senior Environmental Scientist, Supervisor**

**California Environmental Laboratory Accreditation Program**

# OBJECTIVES



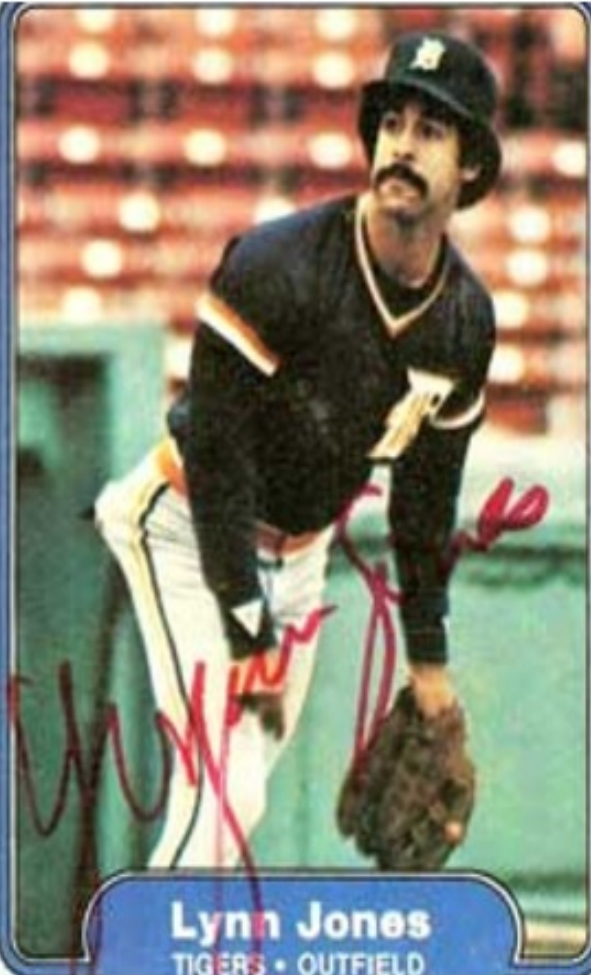
**GOAL OF ELAP'S  
ENFORCEMENT UNIT**



**PROSECUTORIAL  
FRAMEWORK**



**SUMMARY OF  
CRIMINAL CASE**



The worst program in the world, if  
you believe in it 100%, is better than  
a great program that you don't  
believe in.

— *Lynn Jones* —

AZ QUOTES

**STATE WATER  
BOARD HAS A  
REPUTATION  
FOR  
ENFORCEMENT**

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**Created An Enforcement  
Unit**

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**Partnered With State Water  
Board Office Of Enforcement**

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**Developed Skills And Tools**



# **GOAL OF ENFORCEMENT UNIT**

**Protect Public Health And The Environment By Preventing Violations And Effectively Enforcing Laws, Regulations, And Laboratory Standards When Violations Occur**

- **Separation of Function**
- **Complaint Based, Risk Based**

# **ELAP IS NO LONGER "A PAPER TIGER"**

- **Philosophy Of Progressive Enforcement**
  - Notice Of Violation
  - Monetary Penalties
  - Suspension
  - Revocation
- **Conducted 60 Investigations Since 2015**
- **Uncovered A Tangled Web Of Laboratory Fraud**

# PROSECUTORIAL FRAMEWORK



**Criminal**

**Beyond a Reasonable  
Doubt**



**Civil**

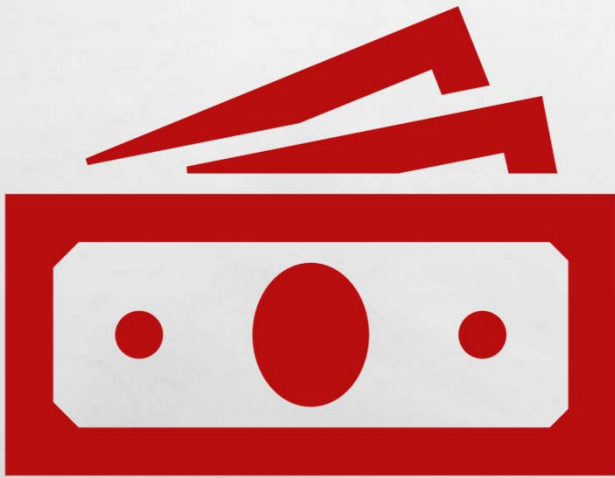
**Preponderance of  
Evidence**



**Administrative**

**Substantial Evidence**

# BACKGROUND OF CRIMINAL CASE



- **California's UST Cleanup Fund Is Financed By A 2-cent Per Gallon Gasoline Tax**
- **The Fund Is Used To Reimburse Contractors Who Perform Cleanup Of Petroleum Leaks At UST Facilities Statewide (Up To \$1.5 Million Per Site)**
- **The Fund Has Reimbursed More Than \$3.6 Billion Since 1992, Including \$132 Million In 2016**
- **About 8,700 Sites Have Been Remediated And Closed Since The Fund's Inception In 1989**



# **THE REFERRAL**

- **Rumors That Cal Tech Environmental Laboratories Will “Give You The Results You Want”**
- **Data Package With Multiple Red Flags**
  - **Misspellings, Different Fonts**
  - **Pattern Of QC Results Without Variation**
  - **QC And Client Sample Results Inconsistent With Raw Data**
  - **Altered Data**

# SEARCH WARRANT

- After 6 Hour Interview, Roobik Yaghoubi (Owner/Lab Director) Admits That His Client Asked Him To Change Data In Order To Justify More Clean Up And Get Reimbursed By The Clean Up Fund
- Seized 36 Boxes Of Analytical Data



# FAILING QC

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\3\DATA\E40204\E402039.D Vial: 9  
Acq On : 4 Feb 2014 Operator:  
Sample : 02-005-02a 1x Inst : GCMS E  
Misc : Multiplr: 1.00  
MS Integration Params: events.e  
Quant Time: Feb 04 14:59:45 2014 Quant Results File: E31007G.RES  
Quant Method : C:\MSDCHEM\3\METHODS\E31007G.M (Chemstation Integrator)  
Title : 8260 cal  
Last Update : Tue Oct 22 10:32:03 2013  
Response via : Initial Calibration  
DataAcq Meth : E31007G

Internal Standards	R.T.	Q Ion	Response	Conc	Units	Dev (Min)
1) Pentafluorobenzene	8.93	168	10404443	50.00	ug/L	0.00
33) 1,4-Difluorobenzene	10.40	114	15341460	50.00	ug/L	0.00
60) Chlorobenzene D5	14.48	82	1603106	50.00	ug/L	0.00
69) 1,4-Dichlorobenzene D4	17.58	152	3592968	50.00	ug/L	0.00
System Monitoring Compounds						
25) Dibromofluoromethane	9.17	111	4921789	49.85	ug/L	0.00
Spiked Amount				50.000		
27) 1,2-Dichloroethane-D4	9.87	65	4129467	40.64	ug/L	0.00
Spiked Amount				50.000		
43) Toluene d8	12.49	98	6620361	20.10	ug/L	0.00
Spiked Amount				50.000		
80) Bromofluorobenzene	16.03	95	4050103	61.51	ug/L	0.00
Spiked Amount				50.000		
Target Compounds						
3) Chloromethane	3.39	50	90995	0.84	ug/L	48
81) Acetone	6.44	43	57666	Below Cal		59

Toluene d8 is 40.20%, Which is Below the Acceptable Range of 70%-130%

63) 2-Chlorotoluene	16.41	91	217169	2.58	ug/L	53
64) 4-Chlorotoluene	16.41	91	217452	2.51	ug/L	42
65) 1,3,5-Trimethylbenzene	16.41	105	2192254	20.07	ug/L	96
66) Tert-butylbenzene	16.75	119	45716	0.40	ug/L	1
67) 1,2,4-Trimethylbenzene	16.75	105	2952039	26.60	ug/L	66
72) p-Isopropyltoluene	17.56	119	175491	0.61	ug/L	38
77) Naphthalene	20.63	128	357173	2.48	ug/L	87

CTEL Project No: [REDACTED]  
Project ID: [REDACTED]  
Project Name: [REDACTED]

Laboratory ID:	1402-005-1	1402-005-2	1402-005-3	Method	Units	Detection Limit
Client Sample ID:	MW-1	MW-2	MW-5			
1,2-Dibromothane(EDB)	ND	ND	ND	EPA 8260B	ug/L	0.5
1,3-Dichloropropane	ND	ND	ND	EPA 8260B	ug/L	1
Dibromochloromethane	ND	ND	ND	EPA 8260B	ug/L	1
2-Hexanone	ND	ND	ND	EPA 8260B	ug/L	10
Tetrachloroethene	ND	ND	ND	EPA 8260B	ug/L	1
Chlorobenzene	ND	ND	ND	EPA 8260B	ug/L	1
1,1,1,2-Tetrachloroethane	ND	ND	ND	EPA 8260B	ug/L	1
Ethylbenzene	26	ND	52	EPA 8260B	ug/L	0.5
m,p-Xylene	97	ND	63	EPA 8260B	ug/L	0.6

Cal Tech Changed the Surrogate Recovery from 40.20% to 92% to Make the Data Appear Acceptable

1,2-Dibromo-3-Chloropropane	ND	ND	ND	EPA 8260B	ug/L	1
1,2,4-Trichlorobenzene	ND	ND	ND	EPA 8260B	ug/L	1
Naphthalene	7.9	2.5	44	EPA 8260B	ug/L	1
1,2,3-Trichlorobenzene	ND	ND	ND	EPA 8260B	ug/L	1
Hexachlorobutadiene	ND	ND	ND	EPA 8260B	ug/L	1
TPH - Gasoline	3000	500	2600	EAP 8015M	ug/L	50

ND = Not Detected at the indicated Detection Limit

SURROGATE SPIKE	% SURROGATE RECOVERY	Control Limit
Dibromofluoromethane	99	100
1,2-Dichloromethane d4	97	98
Toluene-d8	93	92
Bromofluorobenzene	97	100

# OMITTING QC

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\C40423\C404138.D Vial: 8  
 Acq On : 23 Apr 2014 4:20 pm Operator:  
 Sample : 04-106-01 50x Inst : GC/MS #3  
 Misc : Multiplr: 1.00  
 MS Integration Params: events.e  
 Quant Time: Apr 23 16:51 19114 Quant Results File: C31009.RES

Quant Method : C:\HPCHEM\1\METHODS\C31009.M (Chemstation Integrator)  
 Title : 8260 cal  
 Last Update : Tue Feb 11 09:43:18 2014  
 Response via : Initial Calibration  
 DataAcq Meth : C31009

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	9.44	168	108436	50.00	ug/L	-0.04
34) 1,4-Difluorobenzene	11.77	114	157841	50.00	ug/L	-0.04
61) Chlorobenzene D5	18.50	82	81844	50.00	ug/L	-0.03
70) 1,4-Dichlorobenzene D4	23.66	152	88785	50.00	ug/L	-0.03

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) Dibromofluoromethane	0.00	111	0	0.00	ug/L	
Spiked Amount				50.000		
27) 1,2-Dichloroethane-D4	0.00	65	0	0.00	ug/L	
Spiked Amount				50.000		
44) Toluene d8	15.18	98	189563	43.83	ug/L	-0.04
Spiked Amount				50.000		
81) Bromofluorobenzene	21.12	95	82760	52.80	ug/L	-0.03
Spiked Amount				50.000		

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
31) Benzene	11.17	78	133932	33.64	ug/L #	47
45) Toluene	15.35	91	893577	191.82	ug/L	97
53) Ethyl benzene	18.68	91	108679	17.95	ug/L #	55
54) m,p-Xylenes	18.85	91	512355	110.96	ug/L #	84
57) o-Xylene	19.80	91	243971	48.07	ug/L #	73
66) 1,3,5-Trimethylbenzene	21.63	105	133402	33.13	ug/L #	47
68) 1,2,4-Trimethylbenzene	22.60	105	168483	39.81	ug/L #	79
69) sec-Butylbenzene	22.60	105	168470	28.76	ug/L #	58
78) Naphthalene	28.66	128	65809	32.70	ug/L #	66

ND = Not Detected at the indicated Detection Limit

SURROGATE SPIKE	% SURROGATE RECOVERY	Control Limit
Dibromofluoromethane	100	70-130
1,2-Dichloroethane-D4	100	70-130
Toluene-d8	98	70-130
Bromofluorobenzene	106	70-130

2

Surrogate Recoveries for  
 Dibromofluoromethane and  
 1,2-Dichloroethane-D4 were  
 Both Detected as 0%, but  
 Reported as 100% to Make  
 the Data Appear Acceptable



# EXPUNGING; NO VARIATION IN METHOD BLANK RESULTS

**CAL TECH Environmental Laboratories**

QA/QC Report

Method: 8260B  
Matrix: Water  
Date Analyzed: 3/25/2015  
Date Extracted: 3/25/2015

Client: [REDACTED]  
Project: [REDACTED]  
Batch No: [REDACTED]  
Inst. ID: [REDACTED]  
Lab QC Sample ID: [REDACTED]

Perimeters	Conc.		Spike Added	Recovery		Control Limits		RPD
	MS	MSD		MS	MSD	Rec.	RPD	
1,1-Dichloroethene	45	44	50	90	88	70-130	30	2
Benzene	46	45	50	92	90	70-130	30	2
Trichloroethene	48	46	50	96	92	70-130	30	4
Toluene	51	48	50	102	96	70-130	30	6
Chlorobenzene	51	50	50	102	100	70-130	30	2
m,p-Xylenes	102	101	100	102	101	70-130	30	1

MS: Matrix Spike  
MSD: Matrix Spike Duplicate  
RPD: Relative Percent Difference of MS and MSD

Perimeters	Method Blank	Units	Det. Limit
1,1-Dichloroethene	ND	ug/L	1
Benzene	ND	ug/L	0.5
Trichloroethene	ND	ug/L	0.5
Toluene	ND	ug/L	0.5
Chlorobenzene	ND	ug/L	0.5
m,p-Xylenes	ND	ug/L	0.6
MTBE	ND	ug/L	1
TBA	ND	ug/L	10
DIPE	ND	ug/L	1
ETBE	ND	ug/L	1
TAME	ND	ug/L	1
1,2-Dichloroethane	ND	ug/L	0.5
EDB	ND	ug/L	0.5
Ethylbenzene	ND	ug/L	0.5
o-Xylene	ND	ug/L	0.6
TCE	ND	ug/L	1
PCE	ND	ug/L	1

**CAL TECH Environmental Laboratories**

QA/QC Report

Method: 8260B  
Matrix: Water  
Date Analyzed: 5/20/2014  
Date Extracted: 5/20/2014

Perimeters	Conc.		Spike Added	Recovery		Control Limits		RPD
	MS	MSD		MS	MSD	Rec.	RPD	
1,1-Dichloroethene	45	43	50	90	86	70-130	20	4
Benzene	47	45	50	94	90	70-130	20	4
Trichloroethene	46	45	50	92	90	70-130	20	2
Toluene	45	45	50	90	92	70-130	20	2
Chlorobenzene	43	42	50	86	84	70-130	20	2
m,p-Xylenes	92	88	100	92	88	70-130	20	4

MS: Matrix Spike  
MSD: Matrix Spike Duplicate  
RPD: Relative Percent Difference of MS and MSD

Perimeters	Method Blank	Units	Det. Limit
1,1-Dichloroethene	ND	ug/L	1
Benzene	ND	ug/L	0.5
Trichloroethene	ND	ug/L	0.5
Toluene	ND	ug/L	0.5
Chlorobenzene	ND	ug/L	0.5
m,p-Xylenes	ND	ug/L	0.6
MTBE	ND	ug/L	1
TBA	ND	ug/L	10
DIPE	ND	ug/L	1
ETBE	ND	ug/L	1
TAME	ND	ug/L	1
1,2-Dichloroethane	ND	ug/L	0.5
EDB	ND	ug/L	0.5
Ethylbenzene	ND	ug/L	0.5
o-Xylene	ND	ug/L	0.6
TCE	ND	ug/L	1
PCE	ND	ug/L	1



# ALTERING DATA

Quantitation Report (Not Reviewed)					
Data File : C:\HPCHEM\1\DATA\C40630\C406497.D Vial: 13					
Acq On : 30 Jun 2014 12:53:00 Operator: 13					
Sample : 06-165-01a 1x Inst : GC/MS #3					
Misc : Multiplr: 1.00					
MS Integration Params: events.e					
Quant Time: Jun 30 13:30 19114 Quant Results File: C31009.RES					
Quant Method : C:\HPCHEM\1\METHODS\C31009.M (Chemstation Integrator)					
Title : 8260 cal					
Last Update : Tue Feb 11 09:43:18 2014					
Response via : Initial Calibration					
DataAcq Meth : C31009					
Internal Standards					
	R.T.	QION	Response	Conc	Units Dev(Min)
1) Pentafluorobenzene	9.41	168	5195904	50.00	ug/L -0.07
34) 1,4-Difluorobenzene	11.75	114	9878951	50.00	ug/L -0.06
61) Chlorobenzene D5	18.48	82	6167332	50.00	ug/L -0.05
70) 1,4-Dichlorobenzene D4	23.65	152	5476096	50.00	ug/L -0.05
System Monitoring Compounds					
25) Dibromofluoromethane	9.81	111	3791534	64.96	ug/L -0.03
Spiked Amount	50.000		Recovery	= 129.92%	
27) 1,2-Dichloroethane-D4	10.91	65	2941822	53.75	ug/L 0.00
Spiked Amount	50.000		Recovery	= 107.50%	
44) Toluene d8	15.16	98	12015671	44.39	ug/L -0.05
Spiked Amount	50.000		Recovery	= 88.78%	
81) Bromofluorobenzene	21.10	95	5647278	58.41	ug/L -0.05
Spiked Amount	50.000		Recovery	= 116.82%	
Target Compounds					
				Qvalue	
12) Methylene chloride	6.12	49	103322	1.62	ug/L # 29
19) 2-butanone (MEK)	8.47	43	101505	7.09	ug/L # 66
48) Dibromochloromethane	16.77	129	4962921	54.76	ug/L # 10
50) Tetrachloroethene	16.77	129	4990356	75.46	ug/L # 46
58) 1,2,3-Trichloropropane	21.10	75	2643586	37.40	ug/L # 46

MTBE, Benzene, and Toluene Not Detected; but Reported at 48, 13, and 74 µg/L

CAL TECH Environmental Laboratories						
ANALYTICAL RESULTS*						
CTEL Project No: [REDACTED]						
Client Name: [REDACTED]						
Attention: [REDACTED]						
Project ID: [REDACTED]						
Project Name: [REDACTED]						
Date Sampled: 06/24/14 @ 11:50 am Matrix: Water						
Date Received: 06/27/14 @ 17:20 p.m.						
Date Analyzed: 06/27/14						
Laboratory ID:	1406-165-1	1406-165-2	Method	Units:	Detection	
Client Sample ID:	MW-1	MW-2			Limit	
Dilution	I	I				
Dichlorodifluoromethane	ND	ND	EPA 8260B	ug/L	1	
Chloroethane	ND	ND	EPA 8260B	ug/L	1	
Vinyl Chloride	ND	ND	EPA 8260B	ug/L	0.5	
Bromochloroethane	ND	ND	EPA 8260B	ug/L	1	
Chloroethane	ND	ND	EPA 8260B	ug/L	1	
Trichlorofluoromethane	ND	ND	EPA 8260B	ug/L	1	
Iodomethane	ND	ND	EPA 8260B	ug/L	1	
Acetone	ND	ND	EPA 8260B	ug/L	10	
1,1-Dichloroethane	ND	ND	EPA 8260B	ug/L	1	
n-Butyl Alcohol (TBA)	ND	ND	EPA 8260B	ug/L	10	
Methylene Chloride	ND	ND	EPA 8260B	ug/L	10	
Freon 113	ND	ND	EPA 8260B	ug/L	5	
Cetane (dual)	ND	ND	EPA 8260B	ug/L	1	
1,2-Dichloroethane	ND	ND	EPA 8260B	ug/L	1	
Methyl-tert-butyl-ether (MTBE)	48	9.3	EPA 8260B	ug/L	1	
Tri-n-butylamine	ND	ND	EPA 8260B	ug/L	1	
Vinyl acetate	ND	ND	EPA 8260B	ug/L	50	
Diisopropyl Ether (DIPE)	ND	ND	EPA 8260B	ug/L	1	
Methyl Ethyl Ketone	ND	ND	EPA 8260B	ug/L	10	
cis-1,2-Dichloroethane	ND	ND	EPA 8260B	ug/L	1	
Bromochloromethane	ND	ND	EPA 8260B	ug/L	1	
Chloroform	ND	ND	EPA 8260B	ug/L	1	
2,2-Dichloropropane	ND	ND	EPA 8260B	ug/L	1	
Diethyl-tert-butyl ether (ETBE)	ND	ND	EPA 8260B	ug/L	1	
1,1,1-Trichloroethane	ND	ND	EPA 8260B	ug/L	1	
1,2-Dichloroethane	ND	ND	EPA 8260B	ug/L	0.5	
1,1-Dichloropropane	ND	ND	EPA 8260B	ug/L	1	
1,2-Dichloroethane	ND	ND	EPA 8260B	ug/L	0.5	
Benzene	13	ND	EPA 8260B	ug/L	0.5	
1-Ethyl-3-methyl-5-phenyl ether (1,3,5-ETMPE)	ND	ND	EPA 8260B	ug/L	1	
1,2-Dichloropropane	ND	ND	EPA 8260B	ug/L	1	
Trichloroethane	ND	ND	EPA 8260B	ug/L	1	
Dibromomethane	ND	ND	EPA 8260B	ug/L	1	
Bromodifluoromethane	ND	ND	EPA 8260B	ug/L	1	
2-Chloroethylvinyl ether	ND	ND	EPA 8260B	ug/L	5	
cis-1,2-Dichloropropene	ND	ND	EPA 8260B	ug/L	1	
4-Methyl-2-pentanol (4MP)	ND	ND	EPA 8260B	ug/L	10	
1,2-Dichloropropane	ND	ND	EPA 8260B	ug/L	1	
Toluene	74	ND	EPA 8260B	ug/L	0.5	
1,2-Dichloroethane	ND	ND	EPA 8260B	ug/L	1	
(Continued)						

# BROKEN CHAIN OF CUSTODY

**Advanced GeoEnvironmental, Inc.**  
 437 Shaw Road, Stockton, California 95215 • Phone (209) 467-1006 • Fax (209) 467-1118  
 381 Thor Place, Brea, California 92821 • Phone (714) 529-0200 • Fax (714) 529-0203  
 2318 Fourth Street, Santa Rosa, California 95404 • Phone (707) 570-1418 • Fax (707) 570-1461  
 395 Del Monte Center, #111, Monterey, California 93940 • Phone (800) 511-9300 • Fax (831) 394-5979

**CHAIN OF CUSTODY RECORD**  
 Date: 7/26/13 Page 1 of 1

07-123

**Analysis Required**

Sample ID/Location/Description	Date	Time	Matrix	Number	Notes
EW-1 / water	7/26/13	1318	W	2	
EW-2 / water		1320		2	
EW-4 / water		1322		2	
AFT-AS/water		1334		2	
Effluent/water		1340		4	

Relinquished by: [Redacted] Date: 7/26/13 Time: 1415 Laboratory: Cal Test  
 Courier: ONTRAC Received by: [Redacted] Date: [Redacted] Time: [Redacted]  
 Relinquished by: [Redacted] Date: [Redacted] Time: [Redacted] Received by: [Redacted] Date: [Redacted] Time: [Redacted]  
 Relinquished by: [Redacted] Date: [Redacted] Time: [Redacted] Received by: [Redacted] Date: 7-27-13 Time: 10:00 AM  
 Requested Turn Around Time (circle): 24 hours 48 hours 72 hours 5 days (standard) Other: [Redacted]  
 Special Instructions to lab: [Redacted]  
 Geosrcher EDF to: geosrcher@advgeoenv.com Global ID: [Redacted]

PLEASE FORWARD YOUR PAYMENT TO OnTrac  
 P.O. BOX 841664  
 Los Angeles, CA 90084-1664

**Trac**  
 On Trac... delivery For Less

160901 0801 1 002947 000002 002/003

ACCOUNT NUMBER 11034 PAGE 2 of 3  
 DATE 7/27/2013 INVOICE NUMBER 774634  
 TAX ID #98-0066674  
 (877) 227-5139

DETACH HERE. TO ENSURE PROPER CREDIT, PLEASE RETURN THIS STUB WITH YOUR REMITTANCE.

Date / SVC Tracking #	Delivery Company Delivery Address	ZIP City	POD Info Del Time	Reference #	PKG LBS LTR SAT	Total Charges
7/24/2013 S D10010598737620	CAL TECH ENVIRONMENTAL 6814 ROSECRANS AVE	90723-3145 PARAMOUNT	roobik 8:14 AM			
7/25/2013 S D10010599022195	CAL TECH ENVIRONMENTAL 6814 ROSECRANS AVE	90723-3145 PARAMOUNT	8:14 AM			
7/25/2013 S D10010599068991	CAL TECH ENVIRONMENTAL 6814 ROSECRANS AVE	90723-3145 PARAMOUNT	8:14 AM			
7/25/2013 S D106900909264	CAL TECH ENVIRONMENTAL 6814 ROSECRANS AVE	90723-3145 PARAMOUNT	8:14 AM			
7/25/2013 S D10010599088844	CAL TECH ENVIRONMENTAL 6814 ROSECRANS AVE	90723-3145 PARAMOUNT	8:14 AM			
7/26/2013 S D10010599412081	UST CLEANUP FUND 10011 STREET, 17TH FLOOR SACRAMENTO	94244 SACRAMENTO	8:14 AM			
7/26/2013 S D10010599423913	91214-3711 LA CRESCENTA	91214-3711 LA CRESCENTA	3:33 PM			

Roobik Received The Samples At His House  
 At 10:00 AM, 5.5 Hours Before Ontrac  
 Delivered Them

# DOUBLE INVOICING

**CAL TECH** Environmental Laboratories  
 6814 Rosserans Avenue, Paramount, CA 90723-1146  
 Telephone: (562) 261-2000 Fax: (562) 261-2001

## INVOICE

TERMS: NET 20 DAYS

Invoice #: [REDACTED]  
 Client Name: [REDACTED]  
 Address: [REDACTED]  
 Attention: [REDACTED]  
 Project Name: [REDACTED]  
 Lab No.: [REDACTED]

Date: 1/12/2014

Phone: [REDACTED]  
 Fax: [REDACTED]

Matrix: Water

Qty	Item	Item Amount	Item Total
11	VOC, 8260B	\$125.00	\$1,375.00
11	TPH - Gasoline, 8015M	\$50.00	\$550.00
1	EDF	\$192.50	\$192.50

Total Balance Due: \$2,117.50

Invoicing Chart

February 2014

Client	Lab Job #	Inv. Date	\$ Invoiced	Discount	Check #	Amount	Date Rec'd
[REDACTED]	02-001	2-10-14	907.5				
[REDACTED]	2	7	115				
[REDACTED]	3	7	115				
[REDACTED]	4	2-11-14	220			330	
[REDACTED]	5	2-13-14	1000				
[REDACTED]	6	7	300				

Cal Tech's Books Indicates \$1,000 Invoice

Invoice Submitted to the State is \$2,117.50;  
 Which is \$1,117.50 More Than Cal Tech's Books

# INSTRUMENT CONDITION



Dust Bunnies and Possible Dead Insect Near the Injection Port





# OUTCOME OF THE CASE

- **Criminal Prosecution**
  - Three Years Probation + Community Service
  - \$190K Restitution
  - Debarred By EPA (Pending)
- **Spawned A Number Of Investigations Into Consultants**
  - Administrative Fraud Settlement (Including Disqualification From Cleanup Fund Work)
  - Penalty Of \$90K





# **ENFORCEMENT IS A CRITICAL ELEMENT OF THE REGULATORY CRAFT**

- **Combatting Inappropriate Laboratory Practices**
- **Improving Regulatory Agency Confidence in ELAP Laboratories**
- **Boosts Voluntary Compliance**

# QUESTIONS