

# UNDERGROUND STORAGE TANK

# CLOSURE REPORT

640 Brooklyn Avenue Oakland, CA 94606 Job No. 9325 April 16, 2013

# Prepared For:

Jeffrey Jung 109 Shooting Star Isle Foster City, CA 94404



Halle

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# **1. SITE LOCATION**

The subject residential property is located at 640 Brooklyn Avenue between Haddon Road and Hanover Avenue in Oakland, California. Figure 1 attached shows the general site location.

# 2. SITE HISTORY

One underground storage tank (UST) containing diesel was located beneath the sidewalk along the Brooklyn Avenue frontage of the property. The tank had a capacity of approximately 750 gallons, measuring approximately 8 feet in length by 4 feet in diameter, and was constructed of single wall bare steel. The fill port was located on the east end of the tank. The age of the tank is unknown. The owner had no prior knowledge of the tank nor is there any indication of previous site investigation activities. The approximate location of the tank as well as nearby streets is shown on the attached Figure 2.

## 3. TANK REMOVAL

In November 2012, Golden Gate Tank Removal, Inc. (GGTR) applied for and obtained permits for the tank removal activities from the City of Oakland Fire Department (OFD) and City of Oakland Planning and Building (OPB). Copies of these documents are included as an attachment.

On February 12, 2013, GGTR mobilized its equipment and began work on the project. The concrete sidewalk covering the tank was removed and disposed of at a local recycler. The overburden soil covering the tank was removed and stockpiled on visqueen sheeting adjacent to the tank excavation. Field measurements indicated that the bottom of the tank was 8 feet below grade (fbg). GGTR placed wooden shoring in the excavation in direct accordance with the attached shoring calculations provided by John Carver Engineering Consulting. The subsurface product piping extending between the top of the tank and the foundation of the exterior building structure were cut at each end, drained of any residual product and removed from the excavation area. Exposed product lines were cut and plugged.

As part of the removal operations, GGTR, on February 14, 2013, contracted Icon Environmental Services Inc. (ICON) to pump the residual product from the tank and piping into a tanker truck. GGTR then washed the interior of the tank with a 180-degree water under 3,000-psi pressure. A non-toxic enzyme was used to break down thick oil deposits. After a third washing, ICON removed the wash and rinse water from the tank and transported the Non- RCRA Hazardous Waste Liquid (350 Gallons) under Uniform Hazardous Waste Manifest No. 007269571JJK to the D/K Dixon facility in Dixon California. A copy of the liquid manifest is included as an attachment.

GGTR collected a sample of the rinsate water from the tank and submitted it to Accutest Laboratories (State Certification #08258CA) under a formal Chain-of-Custody protocol. The rinsate sample was analyzed for Total Petroleum Hydrocarbons (TPH) Extractable (C10-C28) by Method SW846 8015B M SW846 3510C. The attached Table provided by Accutest Laboratories presents a summary of the rinsate sample analytical results. A copy of the laboratory certificate of analysis and chain of custody form is included as an attachment.

On February 14, 2013, OFD Inspector Sheryl Skillern tested the lower explosive limit (LEL) and oxygen ( $O_2$ ) levels in the tank with a Cannonball 3 combustible gas meter. The LEL and  $O_2$  levels were 0% and 20.9%, respectively.

On February 19, 2013, as directed by Sheryl Skillern of the OFD, GGTR removed the tank from the excavation. After a visual inspection, the tank was loaded into a truck and transported as scrap metal to Circosta Iron & Metal, Inc. in San Francisco, California. Copies of the Certificate of Disposal and Circosta Scrap Metal Recycling Receipt are attached. Figure 3 depicts photographs of the tank removal activities.

# 4. TANK AND SOIL CONDITION

The tank was found to be in poor condition with at least one visible hole. Soil discoloration and hydrocarbon odors were observed in the stockpiled overburden or soil underlying the tank. Soil observed during the UST removal was predominantly a silty clay w/ sand. No groundwater was observed in the excavation during tank removal activities. Because of holes in the tank and soil contamination, an Underground Storage Tank Unauthorized Release (Leak) / Contamination Site Report was required by the OFD. A copy of this report is included as an attachment.

# 5. TANK SAMPLING

On February 19, 2013, under the direction of Sheryl Skillern of the OFD, GGTR collected one four-point composite soil samples from the stockpiled overburden and one discrete soil sample from the former tank excavation. The composite sample was labeled 9325 SP-COMP(A-D) and the discrete sample was labeled 9325 C-10. Soil sample 9325 C-10 was collected 2 feet below the center of the tank bottom at approximately 10 fbg. All samples were transported to Accutest Laboratories (State Certification #08258CA) under the formal chain-of-custody protocol for the required analyses. Figure 2 depicts the approximate soil sample locations.

# 6. TANK SAMPLE ANALYSIS

All soil samples were analyzed for Total Petroleum Hydrocarbons (TPH) as C10-C28 (TPH (C10-C28)) by EPA Method SW846 8015B M, and Benzene, Toluene, Ethyl Benzene, Total Xylenes (BTEX) and Methyl Tert Butyl Ether (MTBE) by EPA Method SW846 8260B. Additionally, the soil samples were analyzed for Total Lead by EPA Method SW846 6010B.

A summary of the analytical results is included in the Table provided by Accutest Northern California, Inc. and a copy of the laboratory certificate of analysis and chain of custody form is included as an attachment.

# 7. OVER-EXCAVATION & CONFIRMATION SAMPLING

Based on the elevated concentration of TPH as diesel reported in the discrete soil sample collected beneath the UST, GGTR, on March 27, 2013, revisited the site to perform over-excavation and confirmation sampling activities. Using a mechanical backhoe, GGTR over-excavated to 16 fbg (limit of backhoe bucket) and removed approximately 7.85 tons of residual hydrocarbon-impacted soil from the UST cavity. The impacted soil was temporarily stockpiled on visqueen sheeting in the parking lane of Brooklyn Avenue.

On March 27, 2013, under direction of inspector Sheryl Skillern of the OFD, GGTR collected two discrete soil samples from the excavation bottom. Soil sample 9325-EX-W-16 was collected from the west end of the excavation at approximately 16 fbg and 9325-EX-E-16 was collected from the east end of the excavation at approximately 16 fbg.

The samples were analyzed for TPH as diesel (C10-C28) by EPA Method SW846 8015B M, BTEX, and MTBE, 1,2-Dibromoethane, 1,2-Dichloroethane, Di-Isopropyl ether, Ethyl tert-Butyl Ether, Tert-Amyl Methyl Ether and Tert Butyl Alcohol by EPA Method SW846 8260B. A

summary of the analytical results is included in the Table provided by Accutest Northern California, Inc. and a copy of the laboratory certificate of analysis and chain of custody form is included as an attachment.

### 8. WASTE MANAGEMENT & SOIL DISPOSAL

Following waste profiling and facility acceptance, GGTR, on March 27, 203, transported the Non-Hazardous Solid Waste (7.85tons) under Non-Hazardous Waste Manifest No. 3850133350 to Vasco Road Landfill Facility in Livermore, CA. Copies of the solid waste manifest and associated weight tag are included as an attachment.

### 9. SITE RESTORATION

On March 28, 2013, GGTR returned to the site to backfill the excavation with the stockpiled overburden soil and approximately 10 yards of clean import material. The soil was placed in 12" lifts and compacted using a jumping jack compactor. The sidewalk was subsequently replaced in conformance with OPB requirements.

### 10. FINDINGS / RECOMMENDATION

There were visible holes in the tank. There was visually contaminated soil directly beneath the tank. As well, lab analysis reported high concentrations of TPH(C10-C28) in the tank bottom sample (9325 C-10). Based on field observations and sample analysis, GGTR proposed to over-excavate the impacted material and collect a confirmation sample. Following OFD approval, the impacted soil was removed, properly profiled and transported for disposal to Vasco Road Landfill Facility in Livermore, CA. The TPH concentration measured in the additional confirmation soil samples collected from the excavation bottom exceeded the applicable environmental screening level for TPH. Any further action at the site, if warranted, will be at the direction of the Alameda County Environmental Health Local Oversight Program (ACEH-LOP).

# **FIGURES**







TANK READY TO BE TRANSPORTED FOR DISPOSAL

GOLDEN GATE TANK REMOVAL, INC. 1455 Yosemite Avenue San Francisco, CA 94124 Ph (415) 512-1555 Fx (415) 512-0964	<b>UST RE</b> 640 Brook Oakland,	<b>MOVAL</b> yn Avenue CA 94606
GGTR Project No. 9325 Drawing By: AC	March 2013	Figure 3

•

# TABLE



Accutest Northern California,Inc.	Apr 01, 2013 08:19 am					
Job Number:	C26897					
Account:	Golden Gate Tank Removal					
Project:	640 B Ca.	rooklyn Av	e., Oakland,			
Project Number:	9325					
		Legend:	Hit			
Client Sample ID:		9325-EX- E-16	9325-EX-W-16			
Lab Sample ID:		C26897-2	C26897-1			
Date Sampled:		03/27/2013	03/27/2013			
Matrix:		Soil	Soil			
GC/MS Volatiles (SW846 8260B)						
Benzene	ug/kg	ND (2.3)	ND (2.0)			
Toluene	ug/kg	ND (2.3)	ND (2.0)			
Ethylbenzene	ug/kg	ND (2.3)	ND (2.0)			
Xylene (total)	ug/kg	ND (4.6)	ND (4.1)			
1,2-Dibromoethane	ug/kg	ND (2.3)	ND (2.0)			
1,2-Dichloroethane	ug/kg	ND (2.3)	ND (2.0)			
Di-Isopropyl ether	ug/kg	ND (2.3)	ND (2.0)			
Ethyl tert-Butyl Ether	ug/kg	ND (2.3)	ND (2.0)			
Methyl Tert Butyl Ether	ug/kg	ND (4.6)	ND (4.1)			
Tert-Amyl Methyl Ether	ug/kg	ND (2.3)	ND (2.0)			
Tert Butyl Alcohol	ug/kg	ND (46)	ND (41)			
GC Semi-volatiles (SW846 8015B M)						
TPH (C10-C28)	mg/kg	227	875			



Accutest Northern California,Inc.	,	Feb 25, 2013 21:20 pm				
Job Number:	C26300	)				
Account:	Golden	ı Gate Tank F	Removal			
Project:	640 Br	ooklyn Ave., (	Oakland, Ca.			
Project Number:	9325					
		Legend:	Hit			
Client Sample ID:		9325-R3				
Lab Sample ID:		C26300-1				
Date Sampled:		02/14/2013				
Matrix:		Water				
GC Semi-volatiles (SW846 8015B	<b>M</b> )					
TPH (C10-C28)	mg/l	ND (0.024)				
Client Sample ID:		9325 C-10	9325 SP-COMP(A- D)			
Lab Sample ID:		C26300-7	C26300-6			
Date Sampled:		02/19/2013	02/19/2013			
Matrix:		Soil	Soil			
GC/MS Volatiles (SW846 8260B)						
Benzene	ug/kg	ND (23)	ND (0.47)			
Toluene	ug/kg	ND (23)	ND (0.47)			
Ethylbenzene	ug/kg	ND (23)	ND (0.47)			
Xylene (total)	ug/kg	127 J	ND (0.94)			
Methyl Tert Butyl Ether	ug/kg	ND (47)	ND (0.94)			
GC Semi-volatiles (SW846 8015B	<b>M</b> )					
	•					
TPH (C10-C28)	mg/kg	4820	13.1			
Metals Analysis						
Lead	mg/kg	-	48.0			

# ATTACHMENTS

ANALYTICAL REPORT UST CLOSURE INSPECTION RECORDS CERTIFICATE OF TANK DISPOSAL SCRAP METAL RECYCLING RECEIPT LIQUID WASTE MANIFEST SOLID WASTE MANIFEST & WEIGHT TAG UST UNAUTHORIZED RELEASE (LEAK) / CONTAMINATION REPORT PERMITS SHORING CALCULATIONS



03/04/13

# **Technical Report for**

### **Golden Gate Tank Removal**

640 Brooklyn Ave., Oakland, Ca.

9325

Accutest Job Number: C26300



Sampling Dates: 02/14/13 - 02/19/13

**Report to:** 

Golden Gate Tank Removal 1455 Yosemite Avenue San Francisco, CA 94124 Data@ggtr.com; b.wheeler@ggtr.com; annettechen@ggtr.com; tim@ggtr.com ATTN: Tim Hallen

Total number of pages in report: 36



Jung. Musy

James J. Rhudy Lab Director

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Client Service contact: Diane Theesen 408-588-0200

Certifications: CA (08258CA) AZ (AZ0762) DoD/ISO/IEC 17025:2005 (L2242)

This report shall not be reproduced, except in its entirety, without the written approval of Accutest Laboratories. Test results relate only to samples analyzed.

Northern California • 2105 Lundy Ave. • San Jose, CA 95131 • tel: 408-588-0200 • fax: 408-588-0201 • http://www.accutest.com



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# **Sample Summary**

Golden Gate Tank Removal

**Job No:** C26300

640 Brooklyn Ave., Oakland, Ca. Project No: 9325

Sample Number	Collected Date	Time By	Received	Matr Code	ix Type	Client Sample ID
C26300-1	02/14/13	14:00 TH	02/20/13	AQ	Water	9325-R3
C26300-2	02/19/13	14:00 TH	02/20/13	SO	Soil	9325 SP-(A)
C26300-3	02/19/13	14:00 TH	02/20/13	SO	Soil	9325 SP-(B)
C26300-4	02/19/13	14:00 TH	02/20/13	SO	Soil	9325 SP-(C)
C26300-5	02/19/13	14:00 TH	02/20/13	SO	Soil	9325 SP-(D)
C26300-6	02/19/13	14:00 TH	02/20/13	SO	Soil	9325 SP-COMP(A-D)
C26300-7	02/19/13	14:00 TH	02/20/13	SO	Soil	9325 C-10
				~ ~	~ H	
C26300-7A	02/19/13	14:00 TH	02/20/13	SO	Soil	9325 C-10

Soil samples reported on a dry weight basis unless otherwise indicated on result page.



# Summary of Hits

Job Number:	C26300
Account:	Golden Gate Tank Removal
Project:	640 Brooklyn Ave., Oakland, Ca.
Collected:	02/14/13 thru 02/19/13

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
C26300-1	9325-R3					
No hits reported in this sample.						
C26300-6	9325 SP-COMP(A	-D)				
TPH (C10-C28) Lead		13.1 48.0	9.8 1.6	2.5	mg/kg mg/kg	SW846 8015B M SW846 6010B
C26300-7	9325 C-10					
Xylene (total) <sup>a</sup> TPH (C10-C28)		127 J 4820	470 390	47 99	ug/kg mg/kg	SW846 8260B SW846 8015B M
C26300-7A	9325 C-10					
Lead		7.1	1.7		mg/kg	SW846 6010B

(a) Dilution required due to high concentration of non-target hydrocarbons.

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Sample Results

Report of Analysis



CAS No.

630-01-3

**Surrogate Recoveries** 

Hexacosane

<b>Report of Analysis</b>								Page 1 of 1	
Client San Lab Samp Matrix: Method: Project:	nple ID: 9325-R le ID: C26300 AQ - V SW846 640 Brd	3 )-1 Vater 8015B M poklyn Ave	SW846 3510C ., Oakland, Ca.			Date Date Perc	Sampled: Received: ent Solids:	02/14/13 02/20/13 n/a	
Run #1 Run #2	<b>File ID</b> HH300810.D	<b>DF</b> 1	<b>Analyzed</b> 02/20/13	By JH	<b>Prep D</b> 02/20/1	ate 3	Prep Batch OP7525	n Analytical Batch GHH921	
Run #1 Run #2	Initial Volume 1060 ml	<b>Final V</b> o 1.0 ml	lume						
TPH Extr	actable								
CAS No.	Compound		Result	RL	MDL	Units	Q		
	TPH (C10-C28	3)	ND	0.094	0.024	mg/l			

**Run# 2** 

Limits

32-124%

Run#1

78%

- J = Indicates an estimated value
- B = Indicates analyte found in associated method blank
- N = Indicates presumptive evidence of a compound



C26300

			Repo	rt of A	nalysis			Page 1 of 1	
Client Sam Lab Sampl Matrix: Method: Project:	ple ID: 9325 le ID: C263 SO - SW8 640 I	SP-COMP(a 00-6 Soil 46 8260B Brooklyn Av	A-D) e., Oakland, Ca	1.	Date Sampled:02Date Received:02Percent Solids:n/			2/19/13 2/20/13 ′a <sup>a</sup>	
Run #1 Run #2	<b>File ID</b> L23003.D	<b>DF</b> 1	<b>Analyzed</b> 02/21/13	<b>By</b> TN	<b>Prep D</b> n/a	ate	<b>Prep Batch</b> n/a	<b>Analytical Batch</b> VL728	
Run #1 Run #2	<b>Initial Weigh</b> 5.32 g	t							
Purgeable	Aromatics, M	ГВЕ							
CAS No.	Compound		Result	RL	MDL	Units	Q		
71-43-2 108-88-3 100-41-4 1330-20-7	Benzene Toluene Ethylbenzene Xylene (tota)	e ()	ND ND ND	4.7 4.7 4.7 9.4	0.47 0.47 0.47 0.94	ug/kg ug/kg ug/kg ug/kg			

1330-20-7	Xylene (total)	ND	9.4	0.94	ug/kg
1634-04-4	Methyl Tert Butyl Ether	ND	4.7	0.94	ug/kg
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limit	s
1868-53-7	Dibromofluoromethane	110%		70-13	0%
2037-26-5	Toluene-D8	100%		70-13	0%
460-00-4	4-Bromofluorobenzene	99%		70-13	0%

(a) All results reported on a wet weight basis.

- J = Indicates an estimated value
- B = Indicates analyte found in associated method blank
- N = Indicates presumptive evidence of a compound

3.2

Accutest Laboratories

			Repo	rt of An	alysis			Page 1 of 1	
Client San Lab Samp Matrix: Method: Project:	nple ID: 9325 S ole ID: C26300 SO - So SW846 640 Br	9325 SP-COMP(A-D) C26300-6 SO - Soil SW846 8015B M SW846 3545A 640 Brooklyn Ave., Oakland, Ca.				Date Sampled: 02/19/13 Date Received: 02/20/13 Percent Solids: n/a <sup>a</sup>			
Run #1 Run #2	<b>File ID</b> HH300876.D	<b>DF</b> 1	<b>Analyzed</b> 02/21/13	By JH	<b>Prep D</b> 02/20/1	<b>ate</b> .3	Prep Batch OP7528	<b>Analytical Batch</b> GHH922	
Run #1 Run #2	<b>Initial Weight</b> 10.2 g	Final Vo 1.0 ml	blume						
TPH Extra	actable								
CAS No.	Compound		Result	RL	MDL	Units	Q		
	TPH (C10-C2	8)	13.1	9.8	2.5	mg/kg			
CAS No.	Surrogate Re	coveries	Run# 1	Run# 2	Lim	its			
630-01-3	Hexacosane		85%		37-1	22%			

(a) All results reported on a wet weight basis.

- J = Indicates an estimated value
- $B = \ Indicates \ analyte \ found \ in \ associated \ method \ blank$
- $N = \ Indicates \ presumptive \ evidence \ of \ a \ compound$

3.2

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Accutest Laboratories

				Rep	ort of A	nalysis		Page 1 of 1	
Client Sampl	le ID: 9325	SP-COM	P(A-D)						
Lab Sample	<b>ID:</b> C263	00-6					Date Sampled:	02/19/13	
Matrix:	SO - 1	Soil					Date Received:	02/20/13	
Project:	640 B	640 Brooklyn Ave., Oakland, Ca.							
Metals Analy	ysis								
Analyte	Result	RL	Units	DF	Prep	Analyzed By	<b>Method</b>	Prep Method	
Lead	48.0	1.6	mg/kg	1	02/20/13	02/22/13 RS	SW846 6010B <sup>1</sup>	SW846 3050B <sup>2</sup>	
(1) Instrumen	t OC Batch: 1	MA3010							

(2) Prep QC Batch: MP5875

(a) All results reported on a wet weight basis.

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3.2

			Rej	port of A	Analysis		Page 1 of 1
Client Sar Lab Samp Matrix: Method: Project:	nple ID: 9325 C ole ID: C26300 SO - So SW846 640 Bro	-10 )-7 vil 8260B poklyn Ave	., Oakland,	Ca.		Date Sampled: 0 Date Received: 0 Percent Solids: n	2/19/13 2/20/13 /a <sup>a</sup>
Run #1 <sup>b</sup> Run #2	<b>File ID</b> L23004.D	<b>DF</b> 1	<b>Analyze</b> 02/21/13	d By TN	<b>Prep Date</b> n/a	<b>Prep Batch</b> n/a	<b>Analytical Batch</b> VL728
Run #1 Run #2	<b>Initial Weight</b> 5.35 g	Final Vo 5.0 ml	lume M 10	<b>ethanol Ali</b> 0 ul	quot		
Purgeable	Aromatics, MTH	BE					

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	230	23	ug/kg	
108-88-3	Toluene	ND	230	23	ug/kg	
100-41-4	Ethylbenzene	ND	230	23	ug/kg	
1330-20-7	Xylene (total)	127	470	47	ug/kg	J
1634-04-4	Methyl Tert Butyl Ether	ND	230	47	ug/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Lim	its	
1868-53-7	Dibromofluoromethane	104%		70-1	30%	
2037-26-5	Toluene-D8	97%		70-1	30%	
460-00-4	4-Bromofluorobenzene	102%		70-1	30%	

(a) All results reported on a wet weight basis.

(b) Dilution required due to high concentration of non-target hydrocarbons.

- J = Indicates an estimated value
- B = Indicates analyte found in associated method blank
- N = Indicates presumptive evidence of a compound



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Accutest Laboratories

			Repo	rt of An	alysis			Page 1 of 1
Client San Lab Samp Matrix: Method: Project:	nple ID: 9325 C ole ID: C26300 SO - S SW846 640 Br	2-10 0-7 oil 5 8015B M ooklyn Ave	SW846 3545 <i>4</i> e., Oakland, Ca	A		Date Date Perc	e Sampled: 02 e Received: 02 cent Solids: n/	2/19/13 2/20/13 a <sup>a</sup>
Run #1 Run #2	<b>File ID</b> HH300865.D	<b>DF</b> 40	<b>Analyzed</b> 02/21/13	By JH	<b>Prep D</b> 02/20/1	9 <b>ate</b> 13	Prep Batch OP7528	Analytical Batch GHH922
Run #1 Run #2	<b>Initial Weight</b> 10.2 g	<b>Final V</b> 1.0 ml	olume					
TPH Extr	actable							
CAS No.	Compound		Result	RL	MDL	Units	Q	
	ТРН (С10-С2	8)	4820	390	99	mg/kg		
CAS No.	Surrogate Re	coveries	Run# 1	Run# 2	Lim	iits		
630-01-3	Hexacosane		98%		37-1	22%		

(a) All results reported on a wet weight basis.

- J = Indicates an estimated value
- B = Indicates analyte found in associated method blank
- N = Indicates presumptive evidence of a compound



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					Rep	ort of A	nalysis			Page 1 of
Client Sampl	le ID:	9325 C	-10							
Lab Sample	ID:	C26300	-7A						Date Sampled:	02/19/13
Matrix:		SO - So	oil						Date Received:	02/20/13
									Percent Solids:	n/a <sup>a</sup>
Project:		640 Bro	ooklyn A	Ave., Oakl	and, (	Ca.				
Metals Analy	ysis									
Analyte	Res	ult	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Lead	7.1		1.7	mg/kg	1	03/01/13	03/01/13	RS	SW846 6010B <sup>1</sup>	SW846 3050B <sup>2</sup>
(1) Instrumen	t OC Ba	atch: M	A3023							

(2) Prep QC Batch: MP5906

(a) All results reported on a wet weight basis.

3.4 3



Section 4

4



Misc. Forms	
Sustady Decuments and Other Forms	
Justody Documents and Other Forms	
ncludes the following where applicable:	
Chain of Custody	



	CHAIN OF CUSTODY	, "Street	( Marine Contraction of the Cont
	2105 Lundy Ave, San Jose CA 95131	FED-EX Tracking #	Bottle Order Control #
ACCUTEST	(408) 588-0200 FAX: (408) 588-0201	Accutest Quote #	Acquilest NC Job #: C C26300
LABORATORIE	3		
Client / Reporting Information	Project Information	Req	uested Analysis Matrix Codes
Address H55 Valente Ant Amoval, The street	Hame:	hhhh	GW- Ground Water SW- Surface Water SQ- Scil
City State Zip City State CA 94124	Datland CA.	801C	ΟΙ-ΟΙ ₩Ρ-Ψίρο
Tim Hullen	9325		LIQ - Non-aqueous Liquid
Phone # 4(5-5)2-1555 EMAIL Samplers's Name Client	Purchase Order #	T UT B	AIR DW- Drinking Water (Perchlorafe Only)
Accutest Colle	etion Number of preserved Bottles		LAB USE ONLY
ID Sample ID / Field Point / Point of Collection Date Tim	→ Sampled by Matrix bottles 및 및 및 및 및 및 및 및 ·····················		
4-5 9325 SP-(A.D) 2/19 21	he The HI Sour 4Br	XXXX	-6) 4.1 COMPOSITE
9325- C- 10 - 1/19 20	TIMH SOIL / BT	XXX	
4-7 9385C-10 2/19 AP	1 That son 1 Br	X X X	
Turnaround Time ( Business days)	Data Deliverable Information	C	omments / Remarks
Approved By/ Date:	Commercial "A" - Results only	× 1325 <-1	0 18(HR TAT (AN -Y)
5.Day 4 DAY TAI	Commerical "B+" - Results, QC, and chromatograms	لماتهم الم	ers = 4 DAY
3 Day (125% markup)	FULT1 - Level 4 data package	ALL DIIN	
2 Day (150% markup)	_ EDF for Geolracker EDF Format		
Same Day (200% markup)	Provide EDF Logcode:		
Emergency T/A data available VIA Lablink			
' Sample Custody must be document	ted below each time samples change possession, including	courier delivery.	Becaluad By:
Heinquisneo by Sampler:		2/20/13 1000	al as Kanture
Relinquished by: Date Time:	Received By:	Date Time:	Received By:
3	3 4 7		4
Relinquished by: Oate Time:	Received By: Custody Seal #	Appropriate Bottle / Pres.	V/H NA On Ico V/H Cooler Temp.
5	5	Labels match Coc? V/ N Separate Recel	ving Check List used: 10/ N 2+4-1.0-1.7.00

C26300: Chain of Custody Page 1 of 2



4

4

	Accutest I	aboratories Sample	e Receipt Summary	
Accutest Job Number: C26300	Client: GOLDEN GA	TE TANK REMOVAL	Project: 640 BROOKLY	N AVE., OAKLAND, CA.
Date / Time Received: 2/20/2013	Delivery Me	thod: Accutest Courier	Airbill #'s:	
Cooler Temps (Initial/Adjusted): #1:	(2.4/1.4); 0			
Yor    Yor    N      1. Custody Seals Present:    Image: Color Seals Intact:    Image: Col	3. COC Present: [ 4. Smpl Dates/Time OK [ or N Con	Y  or  N    Z	grity - Documentation els present on bottles: abeling complete: ttainer label / COC agree: grity - Condition vd within HT:	Y  or  N    ☑  □    ☑  □    ☑  □    ☑  □    Y  or  N    ☑  □
4. No. Coolers:	1	2. All containe	ers accounted for:	
Quality Control_Preservation    Y      1. Trip Blank present / cooler:	or N N/A	3. Condition of <u>Sample Inte</u> 1. Analysis re 2. Bottles rec 3. Sufficient v	g <b>rity - Instructions</b> quested is clear: eived for unspecified tests volume recvd for analysis:	<u>Y or N N/A</u> ✓ □ ✓ □ ✓ □ ✓ □
4. VOCs headspace free:		4. Compositir	ng instructions clear:	
		5. Filtering in	structions clear:	

Accutest Laboratories V:408.588.0200 2105 Lundy Avenue F: 408.588.0201 San Jose, CA 95131 www/accutest.com 4.1 **4** 

C26300: Chain of Custody Page 2 of 2



S



# GC/MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries



#### Method Blank Summary Job Number: C26300

Account: Project:	GGTRCASF Gold 640 Brooklyn Ave	den Gate Tank Rem e., Oakland, Ca.	noval				
<b>Sample</b> VL728-MB	<b>File ID I</b> L22987.D	DF Analyze 02/21/13	ed By 3 TN	Pro n/a	ep Date	<b>Prep Batch</b> n/a	<b>Analytical Batch</b> VL728
<b>The QC rej</b> C26300-6, (	ported here applies to	the following sam	ples:			Method: SW84	6 8260B
CAS No.	Compound	Result	RL	MDL	Units	Q	
71-43-2	Benzene	ND	5.0	0.50	ug/kg		
100-41-4	Ethylbenzene	ND	5.0	0.50	ug/kg		
1634-04-4	Methyl Tert Butyl Eth	ner ND	5.0	1.0	ug/kg		
108-88-3	Toluene	ND	5.0	0.50	ug/kg		
1330-20-7	Xylene (total)	ND	10	1.0	ug/kg		

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	107%	70-130%
460-00-4	4-Bromofluorobenzene	99% 96%	70-130%

5.1.1 **5** 



# Blank Spike/Blank Spike Duplicate Summary

Job Number:	C26300
Account:	GGTRCASF Golden Gate Tank Removal
Project:	640 Brooklyn Ave., Oakland, Ca.

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VL728-BS	L22984.D	1	02/21/13	TN	n/a	n/a	VL728
VL728-BSD	L22985.D	1	02/21/13	TN	n/a	n/a	VL728

# The QC reported here applies to the following samples:

Method: SW846 8260B

C26300-6, C26300-7

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	BSD ug/kg	BSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	40	35.4	89	35.5	89	0	81-119/20
100-41-4	Ethylbenzene	40	36.0	90	36.4	91	1	80-119/21
1634-04-4	Methyl Tert Butyl Ether	40	39.3	98	39.8	100	1	79-127/19
108-88-3	Toluene	40	35.9	90	36.1	90	1	80-117/21
1330-20-7	Xylene (total)	120	102	85	102	85	0	81-122/22
CAS No.	Surrogate Recoveries	BSP	BS	D	Limits			
1868-53-7	Dibromofluoromethane	111%	111	1%	70-130%	6		
2037-26-5	Toluene-D8	97%	989	%	70-1309	6		
460-00-4	4-Bromofluorobenzene	101%	101	1%	70-1309	6		

# Matrix Spike/Matrix Spike Duplicate Summary

Job Number:	C26300
Account:	GGTRCASF Golden Gate Tank Removal
Project:	640 Brooklyn Ave., Oakland, Ca.

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
C26320-1MS	L23005.D	1	02/21/13	TN	n/a	n/a	VL728
C26320-1MSD	L23006.D	1	02/21/13	TN	n/a	n/a	VL728
C26320-1	L23001.D	1	02/21/13	TN	n/a	n/a	VL728

# The QC reported here applies to the following samples:

Method: SW846 8260B

C26300-6, C26300-7

CAS No.	Compound	C26320-1 ug/kg Q	Spike ug/kg	MS ug/kg	MS %	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
71-43-2 100-41-4 1634-04-4 108-88-3 1330-20-7	Benzene Ethylbenzene Methyl Tert Butyl Ether Toluene Xylene (total)	ND ND ND ND ND	37.9 37.9 37.9 37.9 37.9 114	31.8 28.0 37.4 29.3 78.1	84 74* <sup>a</sup> 99 77* <sup>a</sup> 69* <sup>a</sup>	34.8 33.2 40.7 34.2 92.1	81 77* <sup>a</sup> 95 80 72* <sup>a</sup>	9 17 8 15 16	81-119/20 80-119/21 79-127/19 80-117/21 81-122/22
CAS No.	Surrogate Recoveries	MS	MSD	C26	320-1	Limits			
1868-53-7 2037-26-5 460-00-4	Dibromofluoromethane Toluene-D8 4-Bromofluorobenzene	111% 96% 102%	110% 99% 102%	1109 1009 98%	% %	70-130% 70-130% 70-130%	, ,		

(a) Outside control limits.





**Section 6** 

6



GC Semi-volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries



# Method Blank Summary Job Number: C26300

Account: Project:	GGTRCASF Golden 640 Brooklyn Ave.,	Gate Tank Remo Oakland, Ca.	val				
Sample OP7525-MI	<b>File ID DF</b> B HH300797.D1	<b>Analyzed</b> 02/20/13	By JH	<b>Pro</b> 02/	ep Date 20/13	<b>Prep Batch</b> OP7525	Analytical Batch GHH921
The QC re	ported here applies to the	e following samp	les:			Method: SW84	6 8015B M
C26300-1							
CAS No.	Compound	Result	RL	MDL	Units	Q	
	TPH (C10-C28)	ND	0.10	0.025	mg/l		
CAS No.	Surrogate Recoveries		Limit	s			
630-01-3	Hexacosane	73%	32-12	4%			

6.1.1 6

## Method Blank Summary Job Number: C26300

Account: Project:	GGTRCASF Gol 640 Brooklyn Av	lden Gate T ve., Oakland	'ank Remov d, Ca.	al				
Sample OP7528-MI	<b>File ID</b> B HH300803.D	<b>DF</b> 1	<b>Analyzed</b> 02/20/13	By      Prep I        JH      02/20/		<b>ep Date</b> 20/13	<b>Prep Batch</b> OP7528	<b>Analytical Batch</b> GHH921
The QC re	ported here applies to	o the follow	ring sample	es:			Method: SW84	6 8015B M
C20300-0,	C26300-7							
CAS No.	Compound	]	Result	RL	MDL	Units	Q	
	TPH (C10-C28)	1	ND	10	2.5	mg/kg		
CAS No.	Surrogate Recoverie	es		Limits				
630-01-3	Hexacosane	8	39%	37-122	.%			

6.1.2



# Blank Spike/Blank Spike Duplicate Summary

Job Number:	C26300
Account:	GGTRCASF Golden Gate Tank Removal
Project:	640 Brooklyn Ave., Oakland, Ca.

Sample OP7525-BS OP7525-BS	File ID      DF        5      HH300798.D1        5D      HH300799.D1	<b>Analy</b> 02/20/ 02/20/	<b>zed B</b> 13 JH 13 JH	<b>у</b> Н Н	<b>Prep Da</b> 02/20/13 02/20/13	ate 3 3	<b>Prep Bate</b> OP7525 OP7525	ch Analytical Batch GHH921 GHH921
The QC re	eported here applies to the f	collowing sa	mples:			Me	thod: SW	V846 8015B M
C26300-1								
CAS No.	Compound	Spike mg/l	BSP mg/l	BSP %	BSD mg/l	BSD %	RPD	Limits Rec/RPD
	TPH (C10-C28)	1	0.772	77	0.725	73	6	38-115/22
CAS No.	Surrogate Recoveries	BSP	BS	D	Limits			
630-01-3	Hexacosane	84%	80	%	32-124%			

Page 1 of 1
# Blank Spike/Blank Spike Duplicate Summary

Job Number:	C26300
Account:	GGTRCASF Golden Gate Tank Removal
Project:	640 Brooklyn Ave., Oakland, Ca.

Sample         File ID         DI           OP7528-BS         HH300804.D1           OP7528-BSD         HH300805.D1		Analyzed         By           02/20/13         JH           02/20/13         JH		7 [ [	<b>Prep Da</b> 02/20/13 02/20/13	Prep Date         P           02/20/13         C           02/20/13         C		Prep BatchAnalytical BatchOP7528GHH921OP7528GHH921		
<b>The QC re</b> C26300-6,	eported here applies to the C26300-7	following sar	nples:			Met	hod: SW	846 8015B M		
CAS No.	Compound	Spike mg/kg	BSP mg/kg	BSP %	BSD mg/kg	BSD %	RPD	Limits Rec/RPD		
	TPH (C10-C28)	100	74.8	75	75.6	76	1	39-102/29		
CAS No.	Surrogate Recoveries	BSP	BS	D	Limits					
630-01-3	Hexacosane	78%	789	6	37-1229	%				

6.2.2



### Matrix Spike/Matrix Spike Duplicate Summary

Job Number:	C26300
Account:	GGTRCASF Golden Gate Tank Removal
Project:	640 Brooklyn Ave., Oakland, Ca.

<b>Sample</b> OP7528-M OP7528-M C26300-7	File ID         D           S         HH300868.D5           SD         HH300879.D5           HH300865.D4	OF         Analyzed           0         02/21/13           0         02/21/13           0         02/21/13	AnalyzedBy02/21/13JH02/21/13JH02/21/13JH			<b>Prep Batch</b> OP7528 OP7528 OP7528		<b>Analyti</b> GHH92 GHH92 GHH92	cal Batch 2 2 2
The QC re	eported here applies to	the following sample	es:		Ν	Aethod:	SW846 8	8015B N	1
C26300-6,	C26300-7								
CAS No.	Compound	C26300-7 mg/kg Q	Spike mg/kg	MS mg/kg	MS %	MSD mg/kg	MSD %	RPD	Limits Rec/RPD
	TPH (C10-C28)	4820	98.7	4170	-658* a	4700	-122* a	12	39-102/29
CAS No.	Surrogate Recoveries	MS	MSD	C20	5300-7	Limits			
630-01-3	Hexacosane	95%	85%	98%	ó	37-122%			

(a) Outside control limits due to high level in sample relative to spike amount.

Section 7



Metals Analysis

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries



#### BLANK RESULTS SUMMARY Part 2 - Method Blanks

#### Login Number: C26300 Account: GGTRCASF - Golden Gate Tank Removal Project: 640 Brooklyn Ave., Oakland, Ca.

QC Batch ID: MP5875 Matrix Type: SOLID Methods: SW846 6010B Units: mg/kg

Prep Date:					02/20/13	
Metal	RL	IDL	MDL	MB raw	final	
Aluminum	20	1.3	2			
Antimony	2.0	.07	.087			
Arsenic	2.0	.07	.07			
Barium	20	.04	.035			
Beryllium	1.0	.02	.012			
Boron	10	.09	. 2			
Cadmium	1.0	.02	.015			
Calcium	500	.71	7.6			
Chromium	1.0	.03	.054			
Cobalt	1.0	.02	.022			
Copper	2.5	.12	.19			
Iron	20	.64	1.6			
Lead	2.0	.07	.054	0.76	<2.0	
Magnesium	500	2.7	1.5			
Manganese	1.5	.01	.054			
Molybdenum	2.0	.02	.024			
Nickel	1.0	.02	.024			
Potassium	1000	1.8	1.3			
Selenium	2.0	.18	.23			
Silicon		.12				
Silver	1.0	.03	.044			
Sodium	1000	1.5	4.8			
Strontium	1.0	.02	.017			
Thallium	2.0	.05	.073			
Tin	50	.02	.41			
Titanium	1.0	.04	.079			
Vanadium	1.0	.03	.025			
Zinc	2.0	.03	.098			

Associated samples MP5875: C26300-6

Results < IDL are shown as zero for calculation purposes (\*) Outside of QC limits (anr) Analyte not requested

7.1.1 7



### MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: C26300 Account: GGTRCASF - Golden Gate Tank Removal Project: 640 Brooklyn Ave., Oakland, Ca.

QC Batch ID: MP5875 Matrix Type: SOLID

Prep Date:				02/20/13						
Metal	C26310-1 Original	MS	Spikelot MPIR4A	% Rec	QC Limits					
Aluminum										
Antimony										
Arsenic	anr									
Barium	anr									
Beryllium										
Boron										
Cadmium	anr									
Calcium										
Chromium	anr									
Cobalt										
Copper										
Iron										
Lead	101	112	44.6	24.6N(a)	75-125					
Magnesium										
Manganese										
Molybdenum										
Nickel	anr									
Potassium										
Selenium										
Silicon										
Silver										
Sodium										
Strontium										
Thallium										
Tin										
Titanium										
Vanadium										
Zinc	anr									
Associated sam	ples MP58	75: C2630	0-6							
Results < IDL are shown as zero for calculation purposes (*) Outside of QC limits (N) Matrix Spike Rec. outside of QC limits (arr) Analyte not requested (a) Spike recovery indicates possible matrix interference and/or sample nonhomogeneity.										

### MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: C26300 Account: GGTRCASF - Golden Gate Tank Removal Project: 640 Brooklyn Ave., Oakland, Ca.

QC Batch ID: MP5875 Matrix Type: SOLID

Prep Date:					02/20/13			
Metal	C26310-1 Original	MSD	Spikelot MPIR4A	% Rec	MSD RPD	QC Limit		
Aluminum								
Antimony								
Arsenic	anr							
Barium	anr							
Beryllium								
Boron								
Cadmium	anr							
Calcium								
Chromium	anr							
Cobalt								
Copper								
Iron								
Lead	101	124	45	51.1N(a)	10.2	20		
Magnesium								
Manganese								
Molybdenum								
Nickel	anr							
Potassium								
Selenium								
Silicon								
Silver								
Sodium								
Strontium								
Thallium								
Tin								
Titanium								
Vanadium								
Zinc	anr							
Associated sam	mples MP58	75: C2630	0-6					
Results < IDL (*) Outside of (N) Matrix Spi (anr) Analyte (a) Spike reco	Results < IDL are shown as zero for calculation purposes (*) Outside of QC limits (N) Matrix Spike Rec. outside of QC limits (anr) Analyte not requested (a) Spike recovery indicates possible matrix interference and/or sample porhomogeneity							



### SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

#### Login Number: C26300 Account: GGTRCASF - Golden Gate Tank Removal Project: 640 Brooklyn Ave., Oakland, Ca.

QC Batch ID: MP5875 Matrix Type: SOLID

Prep Date:			02/20/13	
Metal	BSP Result	Spikelot MPIR4A	% Rec	QC Limits
Aluminum				
Antimony				
Arsenic	anr			
Barium	anr			
Beryllium				
Boron				
Cadmium	anr			
Calcium				
Chromium	anr			
Cobalt				
Copper				
Iron				
Lead	48.6	50	97.2	80-120
Magnesium				
Manganese				
Molybdenum				
Nickel	anr			
Potassium				
Selenium				
Silicon				
Silver				
Sodium				
Strontium				
Thallium				
Tin				
Titanium				
Vanadium				
Zinc	anr			
Associated sa	amples MP5	875: C2630	0-6	
Results < IDI (*) Outside ( (anr) Analyte	are shown of QC limi not requ	n as zero ts ested	for calcu	lation purposes



### SERIAL DILUTION RESULTS SUMMARY

### Login Number: C26300 Account: GGTRCASF - Golden Gate Tank Removal Project: 640 Brooklyn Ave., Oakland, Ca.

QC Batch ID: MP5875 Matrix Type: SOLID

Prep Date:			02/20/13	
Metal	C26310-1 Original	SDL 1:5	%DIF	QC Limits
Aluminum				
Antimony				
Arsenic	anr			
Barium	anr			
Beryllium				
Boron				
Cadmium	anr			
Calcium				
Chromium	anr			
Cobalt				
Copper				
Iron				
Lead	1100	1140	2.8	0-10
Magnesium				
Manganese				
Molybdenum				
Nickel	anr			
Potassium				
Selenium				
Silicon				
Silver				
Sodium				
Strontium				
Thallium				
Tin				
Titanium				
Vanadium				
Zinc	anr			
Associated sa	mples MP58	75: C2630	0-6	
Results < IDL (*) Outside c (anr) Analyte	are shown f QC limit not reque	as zero s sted	for calcu	lation purposes



#### BLANK RESULTS SUMMARY Part 2 - Method Blanks

#### Login Number: C26300 Account: GGTRCASF - Golden Gate Tank Removal Project: 640 Brooklyn Ave., Oakland, Ca.

QC Batch ID: MP5906 Matrix Type: SOLID Methods: SW846 6010B Units: mg/kg

Prep Date:					03/01/13		
Metal	RL	IDL	MDL	MB raw	final		
Aluminum	20	1.3	2				
Antimony	2.0	.07	.087				
Arsenic	2.0	.07	.07				
Barium	20	.04	.035				
Beryllium	1.0	.02	.012				
Boron	10	.09	.2				
Cadmium	1.0	.02	.015				
Calcium	500	.71	7.6				
Chromium	1.0	.03	.054				
Cobalt	1.0	.02	.022				
Copper	2.5	.12	.19				
Iron	20	.64	1.6				
Lead	2.0	.07	.054	0.26	<2.0		
Magnesium	500	2.7	1.5				
Manganese	1.5	.01	.054				
Molybdenum	2.0	.02	.024				
Nickel	1.0	.02	.024				
Potassium	1000	1.8	1.3				
Selenium	2.0	.18	.23				
Silicon		.12					
Silver	1.0	.03	.044				
Sodium	1000	1.5	4.8				
Strontium	1.0	.02	.017				
Thallium	2.0	.05	.073				
Tin	50	.02	.41				
Titanium	1.0	.04	.079				
Vanadium	1.0	.03	.025				
Zinc	2.0	.03	.098				

Associated samples MP5906: C26300-7A

Results < IDL are shown as zero for calculation purposes (\*) Outside of QC limits (anr) Analyte not requested

### MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: C26300 Account: GGTRCASF - Golden Gate Tank Removal Project: 640 Brooklyn Ave., Oakland, Ca.

QC Batch ID: MP5906 Matrix Type: SOLID Methods: SW846 6010B Units: mg/kg

Prep Date:				03/01/13			
Metal	C26436-1 Original	MS	Spikelot MPIR4	% Rec	QC Limits		
Aluminum							
Antimony	anr						
Arsenic	anr						
Barium	anr						
Beryllium	anr						
Boron							
Cadmium	anr						
Calcium	anr						
Chromium	anr						
Cobalt	anr						
Copper	anr						
Iron							
Lead	4.4	46.4	41.7	100.8	75-125		
Magnesium							
Manganese							
Molybdenum	anr						
Nickel	anr						
Potassium							
Selenium	anr						
Silicon							
Silver	anr						
Sodium							
Strontium							
Thallium	anr						
Tin							
Titanium							
Vanadium	anr						
Zinc	anr						
Associated sam	mples MP59	06: C2630	0-7A				
Results < IDL (*) Outside of (N) Matrix Sp: (anr) Analyte	Results < IDL are shown as zero for calculation purposes (*) Outside of QC limits (N) Matrix Spike Rec. outside of QC limits (ar) Analyte not requested						

7.2.2

7

### MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: C26300 Account: GGTRCASF - Golden Gate Tank Removal Project: 640 Brooklyn Ave., Oakland, Ca.

QC Batch ID: MP5906 Matrix Type: SOLID

Prep Date:					03/01/13				
Metal	C26436-1 Original	MSD	Spikelot MPIR4	% Rec	MSD RPD	QC Limit			
Aluminum									
Antimony	anr								
Arsenic	anr								
Barium	anr								
Beryllium	anr								
Boron									
Cadmium	anr								
Calcium	anr								
Chromium	anr								
Cobalt	anr								
Copper	anr								
Iron									
Lead	4.4	47.9	42	103.5	3.2	20			
Magnesium									
Manganese									
Molybdenum	anr								
Nickel	anr								
Potassium									
Selenium	anr								
Silicon									
Silver	anr								
Sodium									
Strontium									
Thallium	anr								
Tin									
Titanium									
Vanadium	anr								
Zinc	anr								
Associated sa	mples MP59	06: C263	00-7A						
Results < IDL (*) Outside o (N) Matrix Sp (anr) Analyte	are shown f QC limit ike Rec. o not reque	as zero s outside o: sted	for calcu f QC limit	lation pu s	irposes				



### SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

### Login Number: C26300 Account: GGTRCASF - Golden Gate Tank Removal Project: 640 Brooklyn Ave., Oakland, Ca.

QC Batch ID: MP5906 Matrix Type: SOLID

Prep Date:			03/01/13	
Metal	BSP Result	Spikelot MPIR4	% Rec	QC Limits
Aluminum				
Antimony	anr			
Arsenic	anr			
Barium	anr			
Beryllium	anr			
Boron				
Cadmium	anr			
Calcium	anr			
Chromium	anr			
Cobalt	anr			
Copper	anr			
Iron				
Lead	54.3	50	108.6	80-120
Magnesium				
Manganese				
Molybdenum	anr			
Nickel	anr			
Potassium				
Selenium	anr			
Silicon				
Silver	anr			
Sodium				
Strontium				
Thallium	anr			
Tin				
Titanium				
Vanadium	anr			
Zinc	anr			
Associated sa	mples MP5	906: C2630	0-7A	
Results < IDI (*) Outside ( (apr) Analyte	are shown	n as zero ts ested	for calcu	lation purposes





### SERIAL DILUTION RESULTS SUMMARY

#### Login Number: C26300 Account: GGTRCASF - Golden Gate Tank Removal Project: 640 Brooklyn Ave., Oakland, Ca.

QC Batch ID: MP5906 Matrix Type: SOLID

Methods: SW846 6010B Units: ug/l

Prep Date:			03/01/13	
Metal	C26436-1 Original SD	L 1:5	%DIF	QC Limits
Aluminum				
Antimony	anr			
Arsenic	anr			
Barium	anr			
Beryllium	anr			
Boron				
Cadmium	anr			
Calcium	anr			
Chromium	anr			
Cobalt	anr			
Copper	anr			
Iron				
Lead	51.5 66	.5	29.1*(a)	0-10
Magnesium				
Manganese				
Molybdenum	anr			
Nickel	anr			
Potassium				
Selenium	anr			
Silicon				
Silver	anr			
Sodium				
Strontium				
Thallium	anr			
Tin				
Titanium				
Vanadium	anr			
Zinc	anr			
Associated sa	mples MP5906:	C2630	0-7A	
Results < IDI (*) Outside c (anr) Analvte	are shown as of QC limits not requeste	zero	for calcu	lation purposes



C26300

### OAKLAND FIRE DEPARTMENT, OES UNDERGROUND STORAGE TANK CLOSURE/REMOVAL FIELD INSPECTION REPORT

Site Address: 640 9	RIDDL	414	11-		Name of Facility:	$\rightarrow A$	للمتمع	$\geq$	A?	245.
Inspector: 17 - 6	KVUZ	E	5		Contact on site:	1.26	<u> </u>	, <del></del>		
Date and Time of Arrival: 27-	27-13_	2:1	WRM		Contractor/Consultant. 60140		the -	·DLY	The are	mou
Canaral Requirem	nents	- Ve	s No	N/A	General Requirem	ents		Yes	No	NTA
American alogues plan on site					Site Safety Plan properly signed.					
Approved closure plan on site.		_	$\rightarrow \rightarrow$	4	40B·C fire extinguisher on site					
Changes to approved plan noted	la				40D.C me exampliance on ane.					- <b>-</b>
Residuals properly stored/transp	orted.		Λ		"No Smoking" signs posted.					
Receipt for adequate dry ice not	ed.	$\nabla$			Gas detector challenged by inspe	ctor.				
Tank Observations	T #1 1/	<u></u> Г #2	T #3	T #4	Tank Observations	T #1	T #2	<b>T</b>	#3	T #4
Tank Capacity (gallons)					Obvious corrosion?					
Material last stored	$+ \neq +$				Obvious odors from tank?					
Dry ice used (pounds)					Seams intact?	}				
Combustible gas concentration	ás %LEL. (Nou	time &	sampling	point)	Tank bed backfill material			/		
					Obvious discoloration?				1	
(2)				· · · ·	Obvious odors ex tank bed?		1			
					Water in excavation?					
Oxygen concentration as % volu	ume. (Note tin	ie &sam	pling poi	nt.)	Sheen/product on water?				·	
			Ī		Tank tagged by transporter?					
(2)				1	Tank wrapped for transport?	T				
					Tank plugged w/ vent cap?					
Tank Material			<u> </u>		Date/time tank hauled off?					
Wrabping/Coating, if any			1		No. of soil samples taken?				Ī	
Obvious holes?			<u> </u>		Depth of soil samples ( ft. bgs)					
				``			·		1	
Pining Remov	/9]	Y	es No	N/A	General Observa	tions		Yes	No	N/A

Piping Removal	Yes	No	N/A
All piping removed hauled off w/ tanks?			
Obvious holes on pipes?			
Obvious odors from pipes?			
Obvious soil discoloration in piping trench?			
Obvious odors from piping trench?			
Water in piping trench?			
Number & depth of soil samples from piping tre	nch?		
Number & depth of water samples from piping	trench?		

and the second

I TCS	INO	N/A
		<u> </u>
'		
и?		
	V V V	v

General Observations	Yes	No	N/A
Leak from any tank suspected?			
"Leak Report" form given to the operator?			1
Obviously contaminated soil excavated?			1
Soil stockpile sampled?	- <b>1</b>	· · · · ·	
Stockpile lined AND covered?			
Water in excavation sampled?			
Number/depth of water samples taken?		· .	<u> </u>
All-samples properly preserved for transport?			T



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UST Closure / Removal Inspection Report/ dmg April 1998 🔔

### OAKLAND FIRE DEPARTMENT, OES UNDERGROUND STORAGE TANK CLOSURE/REMOVAL FIELD INSPECTION REPORT

Site Address: 640 806	DOKIN	$\sim$			Name of Facility: CACA AMALAR ATT
Inspector: 5. 541	Nor	,			Contact on site:
Date and Time of Arrival: 07.	101-13	1	:30	Rm	Contractor/Consultant: GDIAON Grank Trank Como
General Requirem	ents	Yes	No	N/A	General Requirements Yes No N/A
Approved closure plan on site.		V	,		Site Safety Plan properly signed.
Changes to approved plan noted.	· · · · ·	1.15	f		40B:C fire extinguisher on site.
Residuals properly stored/transport	rted.			1	"No Smoking" signs posted.
Receipt for adequate dry ice noted	t,			5	Gas detector challenged by inspector.
Tank Observations	T #1	T #2	T #3	T #4	Tank Observations T #1 T #2 T #3 T #4
Tank Capacity (gallons)	7606				Obvious corrosion?
Material last stored	Ville				Obvious odors from tank?
Dry ice used (pounds)					Seams intact? NO
Combustible gas concentration as	%LEL. (Not	e time & sc	mpling	point)	Tank bed backfill material $\overline{\nabla i}$
(1)				<u> </u>	Obvious discoloration?
(2)					Obvious odors ex tank bed? Var
(3)					Water in excavation?
Oxygen concentration as % volum	ne. (Note tin	ne &sampl	ing poin	<u>t.)</u>	Sheen/product on water? N/A
					Tank tagged by transporter?
(2)					Tank wrapped for transport?
(3) Tarala Matarial					Tank plugged w/ vent cap?
Tank Material 600	5401			** ***	Date/time tank hauled off? 4/1/3 2/p.m.
Obvious holes?					Doth of soil samples taken?
Obvious noies:			I		Lepin of son samples ( it. ogs) ( ) Faith
Piping Removal		Yes	No	N/A	General Observations Yes No N/A
All piping removed hauled off w/	tanks?	- low			Leak from any tank suspected?
Obvious holes on pipes?					"Leak Report" form given to the operator?
Obvious odors from pipes?					Obviously contaminated soit excavated?
Obvious soil discoloration in pipin	g trench?				Soil stockpile sampled?
Obvious odors from piping trench	?			1	Stockpile lined AND covered?
Water in piping trench?					Water in excavation sampled?
Number & depth of soil samples f	rom piping tr	ench?			Number/depth of water samples taken?
Number & depth of water samples	s from piping	trench?			All samples properly preserved for transport?
Additional Observat	tions	Yes	No	N/A	SITE & SAMPLING DIAGRAM
Soil/water sampling protocols acce	eptable?	- Lun			Bloka.
Sampling "chain of custody" note	đ?				> side walk
Tank pit filled in or covered?		1	1465		
Tank pit fenced or barricaded?		1.7	1.7 1		38
Transporter a registered HW haule	er?	$+$ $\checkmark$			$c_{10} \circ l$
Uniform HW Manifest completed	? ?				
Contractor/Consultant reminded o	f complete	$\rightarrow$	<u> </u>	4	
UST Removal Report due within 2	30 days?	L	,		STOLE TILE D
Date/Time removal/closure operat	ions complete	ed?	2/19		4 Point Composit.
OT hours or additional charges du	e from contra	ctor?	1		STreat. X: soil somale
Notes/Comments:	+	(	1		
1 ank untainer	A dil	St $L$	158	ed 6	L heating ail

UST Closure / Removal Inspection Report/ dmg April 1998

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P.m. KARSterl

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### OAKLAND FIRE DEPARTMENT, OES UNDERGROUND STORAGE TANK CLOSURE/REMOVAL FIELD INSPECTION REPORT

Site Address:       ADD BATTOREN       Name of Facility:       Contact on site:       ADAN CA AFT         Inspector:       Statular       Contact on site:       ADAN VEXTOR       Vextor         Date and Time of Arrival:       1:05 PM       Contact or site:       ADAN VEXTOR       Vextor         Changes and Time of Arrival:       1:05 PM       Contractor/Consultant:       General Requirements       Yes         Ceneral Requirements       Yes       No       N/A       General Requirements       Yes         Changes to approved plan noted.       V       40B:C fire extinguisher on site.       Vextor       Vextor         Residuals properly stored/transported.       V       Vextor       Wo Smoking'' signs posted.       Vextor         Tank Observations       T #1       T #2       T #3       T #4       Tank Observations       T #1       T #2       T         Material last stored       Vide       Obvious corrosion?       Vextor       Vextor       Vextor       Vextor         Obvious dors from tank?       Vextor       Vextor       Vextor       Vextor       Vextor         Tank Observation as 'Vextor       Vextor       Vextor       Vextor       Vextor       Vextor       Vextor         Obvious cororosion?       Vextor <td< th=""><th><u> </u></th><th>- Conce</th></td<>	<u> </u>	- Conce
Inspector:       Contact on site:       Date and Time of Arrival:       Contractor/Consultant:       Contractor/Consu	<u> </u>	Roma
Date and Time of Arrival:       Contractor/Consultant:       Contractor/Consultant: <t< td=""><td><u>~<u>L</u> T</u></td><td>Conce</td></t<>	<u>~<u>L</u> T</u>	Conce
General Requirements       Yes       No       N/A         Approved closure plan on site.       V       General Requirements       Yes         Changes to approved plan noted.       V       General Requirements       Yes         Residuals properly stored/transported.       V       Gas detector challenged by inspector.         Tank Observations       T #1       T #2       T #3       T #4         Tank Capacity (gallons)       Total       Obvious corrosion?       Obvious corrosion?         Material last stored       Tuble       Obvious corrosion?       Seams intact?         Combustible gas concentration as %LEL. (Note time & sampling point)       Tank be backfill material       Tank be backfill material	<u>~~ \</u>	June
General Requirements       Yes       No       N/A       General Requirements       Yes         Approved closure plan on site.       ////////////////////////////////////		
Approved closure plan on site.   Changes to approved plan noted.   Residuals properly stored/transported.   Receipt for adequate dry ice noted.   Tank Observations   T #1   T #2   T #3   T #4   Tank Observations   T #1   T #2   T #3   T #4   Tank Observations   T #1   T #2   T #3   T #4   Tank Observations   T #1   T #2   T #3   T #4   Obvious corrosion?   Obvious odors from tank?   Seams intact?   Tank bed backfilt material	No	o N/
Changes to approved plan noted.       40B:C fire extinguisher on site.         Residuals properly stored/transported.       "No Smoking" signs posted.         Receipt for adequate dry ice noted.       Gas detector challenged by inspector.         Tank Observations       T #1       T #2       T #3       T #4         Tank Capacity (gallons)       750       Obvious corrosion?       1         Material last stored       70042       Obvious odors from tank?       1         Dry ice used (pounds)       Seams intact?       1       Tank bed backfill material       1	1	1.
Residuals properly stored/transported.       "No Smoking" signs posted.         Receipt for adequate dry ice noted.       Gas detector challenged by inspector.         Tank Observations       T #1       T #2       T #3       T #4         Tank Capacity (gallons)       T 50       Obvious corrosion?       Image: Combustible gas concentration as %LEL. (Note time & sampling point)       Obvious dors from tank?       Image: Combustible gas concentration as %LEL. (Note time & sampling point)	<u>†                                    </u>	
Receipt for adequate dry ice noted.       Gas detector challenged by inspector.         Tank Observations       T #1       T #2       T #3       T #4         Tank Capacity (gallons)       750       Obvious corrosion?       Obvious corrosion?         Material last stored       74621       Obvious corrosion?       Obvious corrosion?         Dry ice used (pounds)       Seams intact?       Tank bed backfill material       Tank bed backfill material	+	<u> </u>
Tank Observations       T #1       T #2       T #3       T #4       Tank Observations       T #1       T #2       T         Tank Capacity (gallons)       750       0	+	
Tank Observations       T #1       T #2       T #3       T #4       Tank Observations       T #1       T #2       T         Tank Capacity (gallons)       750       0bvious corrosion?       0       0         Material last stored       70421       0bvious corrosion?       0         Dry ice used (pounds)       Seams intact?       0       0         Combustible gas concentration as %LEL. (Note time & sampling point)       Tank bed backfill material       0		<u>-</u>
Tank Capacity (gallons)       750       Obvious corrosion?         Material last stored $\overrightarrow{PU421}$ Obvious odors from tank?         Dry ice used (pounds)       Seams intact?       Image: Seams intact integration as %LEL. (Note time & sampling point)         Combustible gas concentration as %LEL. (Note time & sampling point)       Tank bed backfill material	#3	<b>T</b> #
Material last stored     VU42     Obvious odors from tank?       Dry ice used (pounds)     Seams intact?       Combustible gas concentration as %LEL. (Note time & sampling point)     Tank bed backfill material		
Dry ice used (pounds)     Seams intact?       Combustible gas concentration as %LEL. (Note time & sampling point)     Tank bed backfill material		
Combustible gas concentration as %LEL. (Note time & sampling point) Tank bed backfill material		
(1) Obvious discoloration?		
(2) Obvious odors ex tank bed?		1
(3) Water in excavation?		
Oxygen concentration as % volume. (Note time & sampling point.) Sheen/product on water?		1
(1) Tank tagged by transporter?		·
(2) Tank wrapped for transport?		
(3) Tank plugged w/ vent cap?		
Tank Material Google Date/time tank hauled off?		
Wrapping/Coating, if any No. of soil samples taken?		
Obvious holes? Depth of soil samples (ft. bgs)		1
Piping Removal Yes No N/A General Observations Yes	No	) N/
All piping removed hauled off w/ tanks?		
Obvious holes on pipes? V "Leak Report" form given to the operator?	<u> </u>	· · ·
Obvious odors from pipes? Obviously contaminated soil excavated?	<u> </u>	<u> </u>
Obvious soil discoloration in piping trench? Soil stockpile sampled?		
Obvious odors from piping trench? Stockpile lined AND covered?	<u> </u>	+
Water in piping trench? Water in excavation sampled?	1	
Number & depth of soil samples from piping trench? Number/depth of water samples taken?	<u> </u>	—
Number & depth of water samples from piping trench? All samples properly preserved for transport?		

**Additional Observations** Yes No N/A SITE & SAMPLING DIAGRAM Soil/water sampling protocols acceptable? Blow Sampling "chain of custody" noted? Tank pit filled in or covered? Tank pit fenced or barricaded? Transporter a registered HW hauler? Uniform HW Manifest completed? Contractor/Consultant reminded of complete UST Removal Report due within 30 days? Date/Time removal/closure operations completed? OT hours or additional charges due from contractor? Notes/Comments: IDNK 



# **CERTIFICATE OF DISPOSAL**

DATE:	February 19, 2013
PROJECT NUMBER:	9325
PROJECT ADDRESS:	640 Brooklyn Avenue, Oakland, CA 94606
TANK SIZE:	750 gallons
ORIGINAL TANK CONTENTS:	Diesel

Golden Gate Tank Removal, Inc. hereby issues CERTIFICATION that:

- This tank was cleaned by triple rinsing. The rinsate was sampled and analyzed for Total Petroleum Hydrocarbons and found to be below the City of Oakland limit of 100 parts per million allowable for disposal as scrap metal.
- The Oxygen content of the Tank was 20.9%
- The Lower Explosive Limit was 0%
- The above tank was rendered harmless by cutting and disposed of as scrap metal at Circosta Iron and Metal, Inc.
- The above method of tank destruction is suitable for the materials involved and is accepted by the City of Oakland and County of Alameda as an appropriate disposal method.

Copies of the analytical certificate the chain-of-custody prepared for the rinsate sample and the scrap metal receipt are attached to this Certification. If there are any questions regarding this tank, please contact this office.

Golden Gate Tank Removal, Inc.

0325	BUY NUMBER
CIRCOSTA IRON AND METAL, INC.	425083
PHONE (415) 282-8568 FAX (415) 641-7004	DATE: 2-22-13
CUSTOMER GOLDED GALE TANK	LBS.
ADDRESS REMOVAL	98tQ LB-GRUSS
LICENSE NO. 8 K 69189	19 KO 10 485.
	- 7760 NET
JOB NO TIME OUT 9:00 A	
#THMS	WEIGHER
#2 HMS	INTERPRESE 225NT
STRUCTUHAL UNPREPARED	UNIT PRICE
RE-BAR	AMOUNT \$_/1/
HMS and SHEET MIA FEB 2 2 2013	
CLEAN SHEEL	
W/G 401.	nt
CAST IRON	A an an tools
M-BLOCKS	CUSTOMER SIGNATURE
BODIES BILL OF SA	LE: I hereby state that I am the lawful owner of the material descrit
	LAUG O RONT TO SAIL SAILLY DIGLEY POY

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P	lea	se print or type. (Form desig	ned for use on elite (12-pitch) typewr	iter.)						For	n Approved	. OMB No.	2050-003
	$\uparrow$	UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Huger 002 719 5	54	2. Page 1 of	3. Emergen	108476	°1740		726	957	1 J	JK
		5. Generator's Name and Mailin	ng Address	Sanda merina di		Generator's	Site Address	(if different	than mailing addres	ss)			
		109 Shooting Star Is Foster City, CA 9440 Generator's Phone:	le 14	74-3773			640 Broc Oakland	okiyn Ave , CA 946	oof 1080				
$\psi(x) > 0$		6. Transporter 1 Company Nam	i Services Inc. 1997	(ASTRACT)		1997 (S. S.	و بالا و ال	in in state of the	U.S. EPAIDA		52/980-1		
		7. Transporter 2 Company Nam	le ,	an m					U.S. EPA ID N	lumber			•
		8 Disignalad Facility Name and	d Site Address		a sana da sana i	مى 1945-يەتچىلەر تەركى	. ಕಾಜಾದಿನಗ	مى بەرى بورىيەرد	U.S. EPA ID N	lumber st.			
		7300 Chevron Way Dixon, CA 95620 Facility's Phone:	19-14-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-	9 <b>3-6008</b>	가지 가지 가지, 가지, 가지, 가지 2019년 일이 가지,	artiner gitterere	an di ana ang di sa	13-特型的第	in in the <b>CA</b>	1080.0	12 602 % ** ** **	÷.	
		9a. 9b. U.S. DOT Description HM and Packing Group (if a	on (including Proper Shipping Name, Haza my))	rd Class, ID Number,	v		10, Contai No.	ners Type	11. Total Quantity	12. Unit Wt./Vol.	13.	Waste Code	2\$
COTA		Non RERA Ha	zardous Waste Liquid (Olly W	ater), addred a	Sjekinse i	ð	σî	Ĩ.L.	\$350	G	223,49.00		
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													<u> </u>
		3.											
	╞	4											1
	5 (1 2) 2) 2)	WeanFFELERG:152.E	mergency Contact: Charles Se	aton 510-476	1740.								
	~ -		nee oo oo oo oo oo oo					adhad abay	he he for proper chi	ning north		cified nack	hane
		<ol> <li>GENERALOR'S/OFFEROF marked and labeled/placard Exporter, I certify that the or location that the original sectors and the original sectors and the sectors and th</li></ol>	R'S CERTIFICATION: I hereby declare the ded, and are in all respects in proper condi- ontents of this consignment conform to the	tion for transport acc terms of the attache	consignment a ording to applic d EPA Acknowle	able internati edgment of C	onal and nations on the second s	onal govern/	nental regulations.	lf export sh	ipment and I	am the Prim	ary
	6	Generator's/Offeror's Printed/Typ	nization statement identified in 40 GFR 20 bed Name	2.27(8) (01 800 8 809	e quanuty gene Sign	ature	II FOILD STR	a quanny ge			Мог	ith Day	Year
		ADAN	RODRIGUEZ			Hern	Ad	Ing	Jon (	<u>`</u>	12	14	13
Ŀ	1	6. International Shipments	Import to U.S.		Export from U	.S.	Port of ent	iry/exit:	<u> </u>				
1	1	Transporter signature (for export 7. Transporter Acknowledgeport	ts only): of Receipt of Materials				Dale leavi	ng U.S.:		/	>		
ЦЦ	T	ransporter 1 Printed/Typed Hay	18 19 19 19 19 19 19 19 19 19 19 19 19 19	<u> </u>	Sign	ature	21,1	t ft,	4-71		Mon	th Day	Year
Ody	ľ		the Spont	Sr			4/2	X			<u> </u> Z	<u> </u>	113
TRAN	T	ransporter 2 Printed/Typed Nam	1 <del>0</del>		Sign	ature					Mon	in Day	rear
	1	8. Discrepancy			<u>.</u>								
	1	Ba. Discrepancy Indication Spac	Ce [] Quantity	∟ Туре			esidue	•••	Partial Reject	ction	Ľ	] Fu‼ Reje	iction
l≥	1	8b. Alternate Facility (or General	tor)			Manife	st Reference	INUMBER.	U.S. EPA ID Nu	ımber			
CIL		-							t	•			
DFA	F	acility's Phone:	ular Canaralan						<u> </u>		Mor	th Dav	Year
ATE		. Signature of Alternate Pacilit	y (or Generatory										
SIG	19	). Hazardous Waste Report Mar	nagement Method Codes (i.e., codes for h	azardous waste treat	ment, disposal,	and recycline	g systems)						
	1.		2.		3.				4.				
	20	). Designated Facility Owner or	t Operator: Certification of receipt of hazard	ous materials covere	d by the manife	st except as	nated in Item	18a	1 1				
	Pi	inted/Typed Name			Signa	ature					Mon	th Day	Year
EP/	\Fc	orm 8700-22 (Rev. 3-05) Pr	evious editions are obsolete.		L	ISIGN 3	ನಡನಿ ಕಷ್ಟ	OB ITV 5	IN OFSTINA	ATION .	STATE (	F SEO	

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# NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

If waste is esbestos waste, complete Sections I, II, III and IV If waste is <u>NOT</u> asbestos waste, complete Sections I, II and III

		b. Manifest Docu	ment Number				
N/A					C. Pag	e 1 of	
d. Generator's Name and Location: Jeffrey Jung 640 Brooklyn Avenue Oakland, CA. 94606 f. Bhospieco 574 appa		±,	e. Generator's Mai Jeffrey Jung 109 Shooting Star Foster City, CA and	iling Address:		1	
If pupper of the generating facility int	<u> </u>		g. Phone:650-574.	1404			
" owner of the generating facility diffe	rs from the generator,	provide:	8.1.1010.000-014-	5775			
h. Owner's Name:							
j. Waste Profile #	k Ern Date		i. Owner's Phone N	10.:			
		Description	ping Name and	<u>m. Co</u>	ontainers	n Total	To.L
				No.	Туре	Quantity	WIN
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SENERATOR'S CERTIFICATION: 1 he	Preby certify that the a	hove named	-1			· .	
tate law, has been properly described,	classified and nackan	led and is in man	al is not a hazardous	waste as define	d by 40 CF	R 261 or any a	oplicable
aste is a treatment residue of a previo	usiv restricted based	eo, ano is in prope	condition for transpo	ritation according	g to applica	able regulation	s AND #
een treated in accordance with the reg	usiy resoluted nazard(	ous waste subject/t	the Land Disposal F	Restrictions. I ce	ntify and w	arrant that the	s, ANU, if
A alka M	-Inditication of the OFR	200 and is no longe	r a hazardous waste	as defined by 40	CFR 261.		moste na
Finette The							·
Generator Authorized Agent Name (P	rint) a. S	Signature		>			
TRANSPORTER (Gen	erator completes	lia-h and Trana	nodes		r. Date		
Transporter's Name and Address							
			porter completes	lic-e)			
olden Gate Tank Removal			poner completes	lic-e)			
olden Gate Tank Removal			porter completes	lic-e)		· · · · · · · · · · · · · · · · · · ·	
olden Gate Tank Removal 155 Yosemite Ave an Francisco, CA 94124	•		porter completes	пс-е)			
olden Gate Tank Removal I55 Yosemite Ave In Francisco, CA 94124 Phone: 415-512-1555	· .		porter completes	lic-e)			
olden Gate Tank Removal 155 Yosemite Ave an Francisco, CA 94124 Phone: 415-512-1555			AA A	lic-e)			
olden Gate Tank Removal 155 Yosemite Ave an Francisco, CA 94124 Phone: 415-512-1555	1.1	in M. H		IIC-e)	1-7	70:10	
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COMMENTS							

### UNIFIED PROGRAM CONSOLIDATED FORM HAZARDOUS WASTE HAZARDOUS WASTE TANK CLOSURE CERTIFICATION

	Page of
L FACILITY II BUSINESS NAME (Same as EACH ITY NAME or DBA - Doing Business Act) 3. FACI	
640 Brooklyn Avenue	
TANK OWNER NAME	740.
Leffrey Jung	
TANK OWNER ADDRESS	741.
109 Shooting Star Isle	~
TANK OWNER CITY Foster City	742. STATE CA 743. ZIP CODE 94404 744.
II. TANK CLOSU	RE INFORMATION
Tank ID # Concentration of Flammabl	e Vapor Concentration of Oxygen
TANK (rited radia topics) of this page for more than three tanks) Top Center	Bottom Top Center Bottom
NTERIOR 1 745. 746a. 746b.	6 746c. 20.9 747a. 20.9 747b. 20.9 747c.
READINGS 2 748. 7492. 749b.	749c. 750a. 750b. 750c.
<b>3</b> 751, 752a. 752b.	752c. 753a. 753b. 753c.
III. CERT	FICATION
On examination of the tank, I certify the tank is visually free from product, sludge, the information provided herein is true and accurate to the best of my knowledge.	scale (thin, flaky residual of tank contents), rinseate and debris. I further certify that
SIGNATURE OF CERTIFIER	STATUS OR AFFILIATION OF CERTIFYING PERSON
In Hall	Certifier is a representative of the CUPA, authorized agency, or LIA: 760.
NAME OF CERTIFIER (Print) 754.	□ Yes ⊠ No
Tim Hallen	Name of CUPA, authorized agency, or LIA:
TITLE OF CERTIFIER 755.	
Project Manager	If certifier is other than CUPA / LIA check appropriate box below: 762.
ADDRESS 756.	a. Certified Industrial Hygienist (CIH)
1455 Yosemite Avenue	b. Certified Safety Professional (CSP)
CITY 757.	C. Certified Marine Chemist (CMC)
San Francisco	d. Registered Environmental Health Specialist (REHS)
PHONE 758.	e. Professional Engineer (PE)
415-512-1555	f. Class II Registered Environmental Assessor
	g. Contractors' State License Board licensed contractor (with hazardous
	substance removal certification)
TANK DESIGNER V LEI DELANGADI E OD COMPLETIDI E MATERIAL	763.
TANK PREVIOUSLT HELD FLAMMABLE OK COMBUSTIBLE MATERIALS	
(In yes, the tank interior atmosphere shall be re-checked with a comoustible gas indicator prior to work being concerning the termination of the second seco	DISPOSAL FACILITY, ETC: 764
That As clan S	chap meters
A copy of this certificate shall accompany the tank to the recycling/disposal facility and be pr	ovided to the agency overseeing tank closure (i.e. CUPA or other authorized local agency); the
j owner and/or operator of the rank system; and the rank removal contractor.	

CITY OF OAKLAND • Department of Planning, Building and Neighborhood Preservation 250 Frank H. Ogawa Plaza, 2nd Floer, Oakland, CA 94612 • Phone (510) 238-3443 • Fax (510) 238-2263 Applications for which no permit is issued within 180 days shall expire by limitation. No refund more than 180 days after expiration or final. App1# X1202398 Job Site 640 BROOKLYN AV Parcel# 023 -0410-020-00 Descr Remove UG storage tank in SIDEWALK AREA ONLY. Permit Issued 11/08/12 FIRE MARSHAL review required. 3rd FLOOR. Call PWA INSPECTION prior to start: 510-238-3651. 4th FLOOR. Work Type EXCAVATION-PRIVATE P Non-Metered USA # Util Co. Job # Acctg#: Util Fund #: Applent Phone# Lic# --License Classes--Owner JUNG JEFFREY S Contractor GOLDEN GATE TANK REMOVAL Х (415)512-1555 616521 A C8 Arch/Engr Agent Applic Addr 1455 YOSEMITE AVENUE, SAN FRANCISCO, CA, 94124 \$436.05 FEES TO BE PAID AT ISSUANCE \$71.00 Applic \$309.00 Permit \$.00 Process \$36.10 Rec Mgmt \$.00 Gen Plan \$.00 Invstg JOB SITE \$.00 Other \$19.95 Tech Enh Date: Permit Issued By Inspection Routing: Inits Date FLD-CHK/Pre-Con Excavation/Anchor Installation Sidewalk repair mark-out Concrete repair Finalled **ODRESS** E' Si Necel p th 신다 같다 ..... 28. 2014 Am î Register DIST /12 13 11 / OB <u>XX0</u>

CITY OF OAKLAND • Department of Planning, Building and Neighborhood Preservation

250 Frank H. Ogawa Plaza, 2nd Floor, Oaklund, CA 94612 • Phone (510) 238-3443 • Fax (510) 238-2263

Applications for which no permit is issued within 180 days shall expire by limitation. No refund more than 180 days after expiration or final.

 Permit No.
 X1202398
 Parcel #:
 023 -0410-020-00
 Page 2 of 2

 Project Address:
 640
 BROOKLYN AV

Licensed Contractors' Declaration I hereby affirm under penalty of perjury that I am licensed under provisions of Chapter 9 (commencing with Section 7000) of Division 3 of the Business and Professions Code, and my license is in full force and effect.

Construction Lending Agency Declaration

I hereby affirm under penalty of perjury that there is a construction-lending agency for the performance of the work for which this permit is issued, as provided by Section 3097 of the Business and Professions Code. N/A under Lender implies No Lending Agency.

Lender

\_\_\_\_ Address\_

Workers' Compensation Declaration

I hereby affirm under penalty of perjury one of the following declarations:

[] I have and will maintain a certificate of consent to self-insure for workers' compensation, as provided for by Section 3700 of the Labor Code, for the performance of the work for which this permit is issued.

[] I have and will maintain workers' compensation insurance, as required by Section 3700 of the Labor Code, for the performance of the work for which this permit is issued.

CARRIER: \_\_\_\_\_POLICY NO.

[] I certify that in the performance of the work for which this permit is issued, I shall not employ any person in any manner so as to become subject to the workers' compensation laws of California, and agree that if I should become subject to the workers' compensation provisions of Section 3700 of the Labor Code, I shall forthwith comply with those provisions.

WARNING: FAILURE TO SECURE WORKERS' COMPENSATION COVERAGE IS UNLAWFUL, AND SHALL SUBJECT AN EMPLOYER TO CRIMINAL PENALTIES AND CIVIL FINES UP TO ONE HUNDRED THOUSAND DOLLARS, IN ADDITION TO THE COST OF COMPENSATION, DAMAGES AS PROVIDED FOR IN SECTION 3707 OF THE LABOR CODE, INTEREST, AND ATTORNEY'S FEES.

Hazardous Materials Declaration

I hereby affirm that the intended occupancy [ ] WILL [ ] WILL NOT use, handle or store any hazardous, or acutely hazardous, materials. (Checking "WILL" acknowledges that Sections 25505, 25533, & 25534 of the Health & Safety Code, as well as filing instructions, were made available to you.)

I HEREBY CERTIFY THE FOLLOWING: That I have read this document; that the above information is correct; and that I have truthfully affirmed all applicable declarations contained in this document. I agree to comply with all city and county ordinances and state laws relating to building construction, and hereby authorize representatives of this city to enter upon the above-mentioned property for inspection. I am fully authorized by the owner and to perform the work authorized by this permit.

PRINT NAME

ADDRESS:

DIST



Oakland Fire Department, Fire Prevention Bureau 250 Frank H. Ogawa Plaza, Ste. 3341 Oakland, CA 94612-2032



# **Inspection Work Order**

Business Name:	CASA AMIGA APARTMENTS	Reason:	Other
Address:	640 BROOKLYN AVE	Scheduled:	
Job (Insp Ref#):	2012-36123	Assigned To:	Skillern,Sheryl
Comments:	11/8/12 - UST Removal Application. hb		-
Invoice # Invoice Amount	2012-33736	Applicant: Applicant Ph#;	Golden Gate Tank REmoval 415-512-1555
		Contractor: Contractor Ph#:	







# Attention: City of Oakland

# **Underground Tank Removal Application**

# 640 BROOKLYN AVENUE OAKLAND, CA 94606

November 6, 2012

# GOLDEN GATE TANK REMOVAL, INC. 1455 YOSEMITE AVENUE SAN FRANCISCO, CALIFORNIA 94124

## **PROJECT # 9325**

1455 Yosemite Avenue - San Francisco, CA 94124 - Tel.: 415.512.1555 Fax: 415.512.0964 General Engineering Contractors License No. 616521

# City of Oakland, Fire <u>Department</u>, Office of Emergency Services Hazardous Materials Program APPLICATION FOR UNDERGROUND TANK REMOVAL

	Project Contact & Phone # Tim Hallen (415) 512	-1555
	Facility Name	Phone# 650-574-3773
	Address 640 Brooklyn Avenue, Oakland, CA	
	Cross Street Haddon Rd.	· · · · · · · · · · · · · · · · · · ·
	Owner/Operator Jeffrey Jung	Phone# 650-574-3773
	Contractor Name Golden Gate Tank Removal, Inc.	Phone# (415) 512-1555
	Contractor Address 1455 Yosemite Ave. CA License # 616521	Class A-Haz, C-8
	Hazardous Waste Certified: (Qualifying license category <u>A-Haz, C-8</u> ) Yes No	Workers Comp# 1947693-2011
	City of Oakland Business Tax License # 1307584	Permit #
	Does this site have a leaking UST (or did it have a leaking tank system?)	Yes 🔲 No 🔀
	State Tank 10# Material That Was Stored	Proposed Removal Date
	1 (one) 1500 Gallons Heating Oil	A-S:A.P
K	REVIEWE	D AND APPROVEL FIRE-DEPARTMENT
	BY: Stay	1 optime
	DATE:	
	ALL INSI	PECTIONS REQUISE
		1
	APPROVED APPROVED WITH CONDITION(S)	DISAPPROVED F APPROVAL ////9/12_
N I	* COPY OF EDUCNOACHMENT PER	mit
APPLICA LAWS, A LICENSE THE WO MANNEE HIRING PERFOR SUBJECT	INT MUST PERFORM ALL WORK IN ACCORDANCE WITH CITY OF OAKL ND RULES AND REGULATIONS OF THE CITY OF OAKLAND FIRE SERVIC ED AGENT S SIGNATURE CERTIFIES THE FOLLOWING: I CERTIFY THA RK FOR WHICH THIS INSTALLATION PLAN IS ISSUED, I SHALL NOT EM RAS TO BECOME SUBJECT TO WORKER S COMPENSATION LAWS OF CA OR SUBCONTRACTING SIGNATURE CERTIFIES THE FOLLOWING: I CEI MANCE OF THE WORK FOR WHICH THIS INSTALLATION PLAN IS ISSUE I TO WORKER S COMPENSATION LAWS OF CALIFORNIA.	AND ORDINANCES, STATE ES AGENCY. OWNER OR AT IN THE PERFORMANCE OF PLOY ANY PERSON IS SUCH A ALIFORNIA. CONTRACTOR S RTIFY THAT IN THE D, I SHALL EMPLOY PERSONS TE. 11/6/12

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			AND FIRE DEC
	•	CITY OF OAKLAND FIRE PREVENTION BUREA	U
		250 Frank Ogawa Plaza, Ste. 3	341
	··· · ·	OAKLAND, CALIFORNIA 94612 (510) 238-3851	F2032 BCTIONS KEUD
APPLIC	CATION for PI	ERMIT to INSTALL, RE	MOVE or REPAIR TANKS
<i>·</i>			- 11/6/12
PLEASE	CIRCLE APPRO	Request Submittal PRIATE ACTIONS: Applicatio	n is hereby made for permit to:
(a) Remove	: (b) Install (c) Rep	air (d) Modify (e) Abaudon/Close	in Place A
(a) Geralia	A (b) Englating (a)	Discal (4) Heating OB	·
	e (o) fuerour (c)	Ducsel (d) Treating On	tank(s) and excavate, commencing:
(a) four feet	t inside the curb line*	; (b) inside the property line; (c) all	oveground; (d) underground tank(s)
	me, pieuse unach cop	oy oj sulewalioexcavalion perma jron	Lanning And Bolloning
on the <u>E</u>	side of Brooklyr	St./Ave	feet of Haddon Kd. St/Ave.
Site Address	<u>s: 640 Brookiyn A</u>	ve., Oakland, CA Present	storage Heating Oil
Owner: Jeff	frey Jung	Address 109 Shootin	g Star Isle Phone 650-574-377
	· F	Foster City CA	04404
Applicant:G	olden Gate Tank Re	oster City CA moval, Inc. Address 1455 Yose San Francisco CA	<u>94404</u> mite Ave. Phone (415) 512-155 94124
Applicant: Sidewalk sur Remarks	Frace to be disturbed Frace to be disturbed	Imoval, Inc.Address       1455 Yose         San Francisco       CA        X	<u>94404</u> <u>mite Ave.</u> Phone (415) 512-155 <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u>
Applicant: Sidewalk sur Remarks Signature PLEASE AT • (2) (2) (2) (2) (2) (2) (2) (2) (2) (2)	Frace to be disturbed TACH/SUBMIT: (A Copies of Closure Plas Sets of plans and (1) of Sets of plans and (2) s Sets of plans for above y or prepare to show b air R TANK INSTALLA (ON FOR PERMIT T	University       UNIVERSITY         San Francisco       CA        XNumber of Tanks       1 (c)	<u>mite Ave.</u> <u>Phone (415) 512-155</u> <u>94124</u> <u>96124</u> <u>96124</u> <u>96124</u> <u>96124</u> <u>96124</u> <u>96124</u> <u>96124</u> <u>96124</u> <u>96124</u> <u>96124</u> <u>96124</u> <u>96124</u> <u>96124</u> <u>96124</u> <u>96124</u> <u>96124</u> <u>96124</u> <u>96124</u> <u>96124</u> <u>96124</u> <u>96124</u> <u>96124</u> <u>96124</u> <u>96124</u> <u>96124</u> <u>96124</u> <u>96124</u> <u>96124</u> <u>96124</u> <u>96124</u> <u>96124</u> <u>96124</u> <u>96124</u> <u>96124</u> <u>96124</u> <u>96124</u> <u>96124</u> <u>96124</u> <u>96124</u> <u>96124</u> <u>96124</u> <u>96124</u> <u>96124</u> <u>96124</u> <u>96124</u> <u>96124</u> <u>96124</u> <u>96124</u> <u>96124</u> <u>96124</u> <u>96124</u> <u>96124</u> <u>96124</u> <u>96124</u> <u>96124</u> <u>96124</u> <u>96125</u> <u>96126</u> <u>96126</u> <u>96126</u> <u>96126</u> <u>96126</u> <u>96126</u> <u>96126</u> <u>96126</u> <u>96126</u> <u>96126</u> <u>96126</u> <u>96126</u> <u>96126</u> <u>96126</u> <u>96126</u> <u>96126</u> <u>96126</u> <u>96126</u> <u>96126</u> <u>96126</u> <u>96126</u> <u>96126</u> <u>96126</u> <u>96126</u> <u>96126</u> <u>96126</u> <u>96126</u> <u>96126</u> <u>96126</u> <u>96126</u> <u>96126</u> <u>96126</u> <u>96126</u> <u>96126</u> <u>96126</u> <u>96126</u> <u>96126</u> <u>96126</u> <u>96126</u> <u>96126</u> <u>96126</u> <u>96126</u> <u>96126</u> <u>96126</u> <u>96126</u> <u>96126</u> <u>96126</u> <u>96126</u> <u>96126</u> <u>96126</u> <u>96126</u> <u>96126</u> <u>96126</u> <u>96126</u> <u>96126</u> <u>96126</u> <u>96126</u> <u>96126</u> <u>96126</u> <u>96126</u> <u>96126</u> <u>96126</u> <u>96126</u> <u>96126</u> <u>96126</u> <u>96126</u> <u>96126</u> <u>96126</u> <u>96126</u> <u>96126</u> <u>96126</u> <u>96126</u> <u>96126</u> <u>96126</u> <u>96126</u> <u>96126</u> <u>96126</u> <u>96126</u> <u>96126</u> <u>96126</u> <u>96126</u> <u>96126</u> <u>96126</u> <u>96126</u> <u>96126</u> <u>96126</u> <u>96126</u> <u>96126</u> <u>96126</u> <u>96126</u> <u>96126</u> <u>96126</u> <u>96126</u> <u>96126</u> <u>96126</u> <u>96126</u> <u>96126</u> <u>96126</u> <u>96126</u> <u>96126</u> <u>96126</u> <u>96166</u> <u>96166</u> <u>96166</u> <u>96166</u> <u>96166</u> <u>96166</u> <u>96166</u> <u>96166</u> <u>96166</u> <u>96166</u> <u>96166</u> <u>96166</u> <u>96166</u> <u>96166</u> <u>96166</u> <u>96166</u> <u>96166</u> <u>96166</u> <u>96166</u> <u>96166</u> <u>96166</u> <u>96166</u> <u>96166</u> <u>96166</u> <u>96166</u> <u>96166</u> <u>96166</u> <u>96166</u> <u>96166</u> <u>96166</u> <u>96166</u> <u>96166</u> <u>96166</u> <u>96166</u> <u>96166</u> <u>96166</u> <u>96166</u> <u>96166</u> <u>96166</u> <u>96166</u> <u>96166</u> <u>96166</u> <u>96166</u> <u>96166</u> <u>96166</u> <u>96166</u> <u>96166</u> <u>96166</u> <u>96166</u> <u>96166</u> <u>96166</u> <u>96166</u> <u>96166</u> <u>961666</u> <u>961666</u> <u>96166666666666666666666666666666666666</u>
Applicant: Sidewalk sur Remarks	Figure to be disturbed Frace to be disturbed FTACH/SUBMIT: (A Copies of Closure Pla Sets of plans and (1) of Sets of plans and (2) s Sets of plans for above y or prepare to show ) air R TANK INSTALLA (ON FOR PERMIT T	United City       CA         Imoval, Inc.Address_1455 Yose         San Francisco       CA        XNumber of Tanks_1 (c        XNumber of Tanks_1 (c        XNumber of Tanks_1 (c        XNumber of Tanks_1 (c	<u>strains</u> <u>94404</u> <u>mite Ave.</u> <u>Phone (415) 512-155</u> <u>94124</u> <u>one) Capacity 1500</u> <u>Gallons ea.</u> <u>ss License Permit)</u> ) und tank removal ground tank installation/modifications ications aboveground tank removal and tank <u>PLICATION FORM ALONG WITH A</u> <u>ORE</u>
Applicant: Sidewalk sur Remarks	Frace to be disturbed Frace to be disturbed FTACH/SUBMIT: (A Copies of Closure Plas Sets of plans and (1) of Sets of plans and (2) s Sets of plans for above y or prepare to show b ir R TANK INSTALLA (ON FOR PERMIT T lectrical Inspection	Important City       CA         Important City       CA         San Francisco       CA        XNumber of Tanks 1 (c        XNumber of Tanks 1 (c        XNumber of Tanks 1 (c	<u>94404</u> <u>mite Ave.</u> Phone (415) 512-155 <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u> <u>94124</u>
Applicant: Sidewalk sur Remarks	Golden Gate Tank Re rface to be disturbed TTACH/SUBMIT: (4) Copies of Closure Pla Sets of plans and (1) of Sets of plans and (2) s Sets of plans for above y or prepare to show bair R TANK INSTALLA (ON FOR PERMIT T lectrical Inspection	United City       UNIT CITY         Imoval, Inc.Address       1455 Yose         San Francisco       CA         XNumber of Tanks       1 (c         If applicants must have a City Busine       1 (c         ans for underground tank removal(s       1 (c)         copy of specifications for above ground tank installation and specification packets for under       1 (c)         eground tank installation and specifications and Building approval for       1 (c)         TION PLEASE SUBMIT THIS AP       1 (c)         OOPERATE, MAINTAIN OR ST       1 (c)         FOR OFFICE USE ONLY       1 (c)         Amt. Recv'd       1 (c)         Receipt#       1 (c)	94404         mite Ave. Phone (415) 512-155         94124         94124         One) Capacity 1500 Gallons ea.         Gallons ea.         S License Permit)         Ind tank removal ground tank installation/modifications         Iss License Permit)         Ind tank removal ground tank installation/modifications         Iss License Permit)         Ind tank removal ground tank installation/modifications         Iss License Permit)         Ind tank removal ground tank installation/modifications         Issued:         Cash         Date Issued:         Cash         Recv'd by:         Date Issued:         Date Issued:
Applicant: Sidewalk sur Remarks	Golden Gate Tank Re rface to be disturbed TTACH/SUBMIT: (4) Copies of Closure Pla Sets of plans and (1) of Sets of plans and (2) s Sets of plans for above y or prepare to show bair R TANK INSTALLA' (ON FOR PERMIT T lectrical Inspection	United City       CA         umoval, Inc.Address       1455 Yose         San Francisco       CA        XNumber of Tanks       1 (c	94404         mite Ave. Phone (415) 512-155         94124         94124         One) Capacity 1500 Gallons ea.         Gallons ea.         S License Permit         one) Capacity 1500 Gallons ea.         Gallons ea.         Gallons ea.         S License Permit         one (415) 512-155         Gallons ea.         Date Issued:         Cash         Date Issued:         Cash         Recv'd by:         REVIEWED AND FIRE DEPARTMI
Applicant: Sidewalk sur Remarks Signature PLEASE AT • (2) 4 • (2) 5 •	Frace to be disturbed Frace to be disturbed FTACH/SUBMIT: (A) Copies of Closure Pls Sets of plans and (1) Sets of plans and (2) s Sets of plans for above y or prepare to show 1 air R TANK INSTALLA ION FOR PERMIT T Iectrical Inspection	coster City       CA         emoval, Inc.Address       1455 Yose         San Francisco       CA        XNumber of Tanks       1 (c	94404         mite Ave. Phone (415) 512-155         94124         94124         Gallons ea.         Date Issued:         Cash         Recv'd by:         REVIEWED AND APPROV         GARGAND FIVE DEPARTMI         DATE ISSUED APPROV
Applicant: Sidewalk su Remarks	Golden Gate Tank Re rface to be disturbed TTACH/SUBMIT: (4) Copies of Closure Pls Sets of plans and (1) (3) Sets of plans and (2) (3) Sets of plans for above y or prepare to show 1) ir R TANK INSTALLA ION FOR PERMIT T lectrical Inspection	United City       UNIT Content of Con	94404         mite Ave. Phone (415) 512-155         94124         94124         Gallons ea.         94124         Gallons ea.         Date Issued:         Cash         REVIEWED AND APPRON         OARCAND FIVE DEPARTMI         DATE ALL CELLA

INDICATE THE RESPONSIBLE PARTY TO BE BILLED FOR ADDITIONAL FSA/OES STAFF TIME EXPENDED BEYOND THE HOURS COVERED BY THE INITIAL DEPOSIT AMOUNT. THE PARTY MUST ACKNOWLEDGE THIS RESPONSIBILITY FOR THE ADDITIONAL BILLING BY SIGNATURE AND DATE BELOW.

1121111	ey Jung	· · · ·				
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MATTING						
ADDRESS	109 Shootin	g Star Isle	Foster	City	CA 94	404
	STREET		CIT	Y, STATE, 2	IP ·	· · ·
			;		· .	
DAY PHONE	NUMBER	650-574	4-3773			
		ares code	phone #		· · ·	
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SIGNATURE			-agent to	or the ow	ner	
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DATE 11/6	/12		'.			
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				BY:	June	STILL
· · · · · · · · · · · · · · · · · · ·		•		DATE:	SENISA	ITAZ MAT
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		· · ·			48 HOURS N	S REQUIRE
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### CITY OF OAKLAND Fire Department Fire Prevention Bureau Hazardous Materials Program 250 Frank H. Ogawa Plaza, Ste. 3341 Oakland, CA 94612-2032

## UNDERGROUND TANK CLOSURE PLAN

(Complete according to instructions)

1) Name of Business 640 Brooklyn Avenue

Business Owner or Contact Person (PRINT) Jeffrey Jung

2) Site Address 640 Brooklyn Avenue

city\_Oakland zip 94606

Phone 650-574-3773

3) Mailing Address 109 Shooting Star Isle

city Foster City Zip 94610 Phone 650-574-3773

CA

1.

4) Property Owner Jeffrey Jung

Business Name (if applicable)

Address 109 Shooting Star Isle

City. State Foster City

5) Generator name under which tank will be manifested

Jeffrey Jung

EPA ID Under which tank will be manifested CA C-002-710-720

REVIEWED AND APPROVED OAKLAND FIRE DEPARTMENT BY TTTLE: DATE: ALL INSPECTIONS REQUIRE **48 HOURS NOTICE** 

·	
	J FIRE DEPARTMENT
6) Contractor Golden Gate Tank Rem	noval, Inc.
Address 1455 Yosemite Ave.	۵۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۱۰۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۱۰۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ -
city San Francisco	Phone (415) 512-1555 MCTIONS REQUIRE
License Type <u>A-Haz</u> , C-8	IDS_616521
Effective January 1, 1992, Business and Prof Hazardous Waste certification issued by the St	fessional Code Section 7058.7 require contractors to also hold tate Contractor License Board
7) Consultant (if annlicable) N/a	
Address	71
	Phone Phone
8) Main Contact Person for Investigation (if appli	Ducie of Management
Name IIM Hallen	Title Project Manager
company Golden Gate Tank Rem	ioval, inc.
Phone (415) 512-1555	
Phone (415) 512-1555 9) Number of underground tanks being closed wit	th this plan <u>1 (one)</u> (Confirmed with owner operator)
Phone (415) 512-1555 9) Number of underground tanks being closed wit 10) State Registered Hazardous Waste Transporters	th this plan <u>1 (one)</u> (Confirmed with owner operator) s/Facilities (see instructions)
Phone (415) 512-1555 9) Number of underground tanks being closed wit 10) State Registered Hazardous Waste Transporters **Underground storage tanks must be handled a	th this plan <u>1 (one)</u> (Confirmed with owner operator) s/Facilities (see instructions) is hazardous waste **
Phone (415) 512-1555 9) Number of underground tanks being closed wit 10) State Registered Hazardous Waste Transporter **Underground storage tanks must be handled a a) Product/Residual Sludge/Rinsate Transporter	th this plan <u>1 (one)</u> (Confirmed with owner operator) s/Facilities (see instructions) is hazardous waste **
<ul> <li>Phone (415) 512-1555</li> <li>9) Number of underground tanks being closed wit</li> <li>10) State Registered Hazardous Waste Transporters</li> <li>**Underground storage tanks must be handled a</li> <li>a) Product/Residual Sludge/Rinsate Transporter</li> <li>Name Icon Environmental Services, Inc EP.</li> </ul>	th this plan <u>1 (one)</u> (Confirmed with owner operator) s/Facilities (see instructions) is hazardous waste **
<ul> <li>Phone (415) 512-1555</li> <li>9) Number of underground tanks being closed wit</li> <li>10) State Registered Hazardous Waste Transporters</li> <li>**Underground storage tanks must be handled a</li> <li>a) Product/Residual Sludge/Rinsate Transporter</li> <li>Name icon Environmental Services, inc EP, Hauler License No.</li> </ul>	th this plan <u>1 (one)</u> (Confirmed with owner operator) s/Facilities (see instructions) as hazardous waste ** A I.D. NO. <u>CAL000362980</u>
Phone (415) 512-1555 9) Number of underground tanks being closed wit 10) State Registered Hazardous Waste Transporters **Underground storage tanks must be handled a a) Product/Residual Sludge/Rinsate Transporter Name icon Environmental Services, inc EP. Hauler License No. Like Address P. O. Box 2407	th this plan <u>1 (one)</u> (Confirmed with owner operator) s/Facilities (see instructions) as hazardous waste ** A I.D. NO. <u>CAL000362980</u> cense Exp. Date
Phone (415) 512-1555         9) Number of underground tanks being closed wit         10) State Registered Hazardous Waste Transporter         **Underground storage tanks must be handled a         a) Product/Residual Sludge/Rinsate Transporter         Name_icon Environmental Services, Inc_EP,         Hauler License NoLik         Address_P.O. Box 2407         City_Union City	th this plan <u>1 (one)</u> (Confirmed with owner operator) s/Facilities (see instructions) as hazardous waste ** A I.D. NO. <u>CAL000362980</u> cense Exp. Date State <u>CA</u> Zip <u>94587</u>
Phone (415) 512-1555         9) Number of underground tanks being closed wit         10) State Registered Hazardous Waste Transporter         **Underground storage tanks must be handled a         a) Product/Residual Sludge/Rinsate Transporter         Name       Icon Environmental Services, Inc         EP         Hauler License No.       Lic         Address       P. O. Box 2407         City_Union City         b) Product/Residual Sludge/Rinsate Disposal Site	th this plan <u>1 (one)</u> (Confirmed with owner operator) s/Facilities (see instructions) as hazardous waste ** A I.D. NO. <u>CAL000362980</u> cense Exp. Date State <u>CA</u> Zip <u>94587</u>
Phone (415) 512-1555         9) Number of underground tanks being closed wit         10) State Registered Hazardous Waste Transporters         **Underground storage tanks must be handled a         a) Product/Residual Sludge/Rinsate Transporter         Name       Icon Environmental Services, Inc         EP.         Hauler License No.       Lik         Address       P. O. Box 2407         City       Union City         b) Product/Residual Sludge/Rinsate Disposal Site         Name       DK Dixon	th this plan <u>1 (one)</u> (Confirmed with owner operator) s/Facilities (see instructions) as hazardous waste ** A I.D. NO. <u>CAL000362980</u> cense Exp. Date State <u>CA</u> <u>Zip 94587</u> EPA ID No. <u>CAT080012602</u>
Phone (415) 512-1555         9) Number of underground tanks being closed wit         10) State Registered Hazardous Waste Transporter         **Underground storage tanks must be handled a         a) Product/Residual Sludge/Rinsate Transporter         Name       icon Environmental Services, Inc         EP.         Hauler License No.       Lic         Address       P. O. Box 2407         City       Union City         b) Product/Residual Sludge/Rinsate Disposal Site         Name       DK Dixon         Address       7300 Chevron Way	th this plan <u>1 (one)</u> (Confirmed with owner operator) s/Facilities (see instructions) as hazardous waste ** A I.D. NO. <u>CAL000362980</u> cense Exp. Date State <u>CA</u> Zip <u>94587</u> EPA ID No. <u>CAT080012602</u>
<ul> <li>Phone (415) 512-1555</li> <li>9) Number of underground tanks being closed wit</li> <li>10) State Registered Hazardous Waste Transporters</li> <li>**Underground storage tanks must be handled a</li> <li>a) Product/Residual Sludge/Rinsate Transporter</li> <li>Name icon Environmental Services, Inc EP,</li> <li>Hauler License No. Like</li> <li>Address P. O. Box 2407</li> <li>City Union City</li> <li>b) Product/Residual Sludge/Rinsate Disposal Site</li> <li>Name DK Dixon E</li> <li>Address 7300 Chevron Way</li> <li>City Dixon</li> </ul>	th this plan <u>1 (one)</u> (Confirmed with owner operator) s/Facilities (see instructions) as hazardous waste ** A I.D. NO. <u>CAL000362980</u> cense Exp. Date State <u>CA</u> Zip <u>94587</u> EPA ID No. <u>CAT080012602</u>
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Phone (415) 512-1555 9) Number of underground tanks being closed wit 10) State Registered Hazardous Waste Transporters **Underground storage tanks must be handled a a) Product/Residual Sludge/Rinsate Transporter Name icon Environmental Services, Inc EP, Hauler License No. Like Address P. O. Box 2407 City Union City b) Product/Residual Sludge/Rinsate Disposal Site Name DK Dixon H Address 7300 Chevron Way City Dixon	th this plan <u>1 (one)</u> (Confirmed with owner operator) s/Facilities (see instructions) is hazardous waste ** A I.D. NO. <u>CAL000362980</u> cense Exp. Date State <u>CA</u> Zip <u>94587</u> EPA ID No. <u>CAT080012602</u> State <u>CA</u> REVIEW AND APPROVED OAKLAND FIRE DEPARTMENT BY:
Phone (415) 512-1555         9) Number of underground tanks being closed wit         10) State Registered Hazardous Waste Transporters         **Underground storage tanks must be handled a         a) Product/Residual Sludge/Rinsate Transporter         Name       Icon Environmental Services, Inc         EP.         Hauler License No.       Lic         Address       P. O. Box 2407         City       Union City         b) Product/Residual Sludge/Rinsate Disposal Site         Name       DK Dixon         Address       7300 Chevron Way         City       Dixon	th this plan <u>1 (one)</u> (Confirmed with owner operator) s/Facilities (see instructions) as hazardous waste ** A I.D. NO. <u>CAL000362980</u> cense Exp. Date State <u>CA</u> Zip <u>94587</u> EPA ID No. <u>CAT080012602</u> State <u>CA</u> REVIEW AND APPROVED OAKLAND FIDE DEPARTMENT BY: <u>CA</u> DATE: <u>(1.2)</u>

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•	· c)	Tank and Piping Transporter	•
•		Name Golden Gete Tank Removal, Inc. (Dispose & Transport as Non Huz) EPA I.D. No.	
.÷	c)	Hauler License No License Exp. Date	
		Address 1455 Yosemite Ave.	
-		city San Francisco State CA Zip 94124	<u></u>
	d)	Tank and Piping Disposal Site	_
		Name_Circosta Scrap Metal EPA I.D. No. CAD983650797	
		Address 1801 Evans Ave.	
		city San Francisco State CA zip 94124	
•	11)	Sample Collector	
· ·	:	Name_Tim Hallen	•
		Company Golden Gate Tank Removal, Inc.	 •
•		Address 1455 Yosemite Ave.	
		city San Francisco State CA Zip 94124	:
••••••		Phone (415) 512-1555	
	12)	Laboratory	•
· · ·		Name Accutest Laboratories	· · · · · · · · · · · · · · · · · · ·
	-	Address 2105 Lundy Ave.	······
		city San Jose State CA zin 95054	· · ·
		State Certification No. 08258	н. С. С. С
-	•		
4 •			· · · ·
· ·	13)	Have tanks or pipes leaked in the past Yes No Unknown 🕅	•
		If yes, describe	· · ·
		PEVIEWED AND APPR	OVED
	:	OAKLAND FILM DEPART	MENT
• • •	•	TITLE: Sterror Hit	z_MAT
		3 DATE:	UIRE
-		48 HOURS NOTIC	<u>s                                    </u>

14) Describe methods to be used for rendering tank (s): inert:

All existing material in tank will be removed. Tank will ten be triple rinsed to removal residual material. After triple rinsing; the tank will be purged

of vapors using dry ice at a ratio of 25(b) per 1, 1000 gallon tank volume. Immediately prior to removal the tank will be tested for LEL and % O2.

The LEL must be within 10% of LEL for material previously contained in thank and oxygen should be not exceed 5%. Before tanks are pumped out and inserted, all associated piping must be flushed out into the tanks. All accessible associated piping must then be removed. Inaccessible piping must be permanently plugged.

The Bay Area Air Quality Management District, 415/771-6000 must also be contacted for tank removal permit. The use of a combustible gas indicator to verify tank inertness is required. It is the contractor's responsibility to bring a working combustible gas indicator on-site to verify that the tank is inert. Note: you may be required to recalibrate the combustible gas indicator on site, to show that it is working properly.

15) Tank History and Sampling Information \*\*\* (see instructions) \*\*\*

	Tank	Material to be sampled (tank	Location and Depth of Samples
Caracity	Use History include date last used (estimated)	(contents; sou; groundwater)	
1500	unknown	soil, groundwater if present	Sample will be takenat each end of tank at
 • •			each end of tank at a depth of 2' into native soil and from stockpile.
	•		1. stockpile
· ·			2.north/or east end of excavtion 3.south/or west end of excavtion
			4. bottom of tank (max of 15feet)
14 A.		•	

One soil sample must be collected for every 20 linear feet or piping that is removed. A ground water sample must be collected if any ground water is present in the excavation.

REVIEWED AND APPROVED OAKLAND FIRE DEPARTMENT BY: <u><u>U</u> TITLE: <u>Stepueon</u> HAZ MAT DATE: <u>U</u> (9/12 ALL INSPECTIONS REQUIRE 48 HOURS NOTICE</u>
and the second secon

### EXCAVATED/STOCKPILED SOIL

ocwhuen bon Aoinm	e (estimated)		Sampling Plan	
20 yards		4	point composite for every to point composite for every 2	50 cubic yards or 20 cubic yards
Stockpiled soil mus	it be placed on beamed	plastic and r	nust be completely covered by	y plastic sheeting
	yes I No	une excavati	ion immediately after tank ren known	novar?
If yes, explain reas	oning		·····	
<u> </u>				
<ul> <li>16. Chemical meti The Tri-Region should be folk See attached 1</li> <li>17. Submit Site He</li> </ul>	nods and associated det nal Board recommended wed. Table 2. ealth and Safety Plan (s	tection limits d minimum v see Instructio	to be used for analyzing sample infication analyses and practions)	ples: cal quantitation reporting lin Method Detection Limit
<ul> <li>16. Chemical meti The Tri-Region should be folic See attached 7</li> <li>17. Submit Site He Contaminant Sought</li> </ul>	nods and associated det nal Board recommended wed. Table 2. ealth and Safety Plan (s EPA or Other Preparation Method	tection limits d minimum v see Instructio r Sample od Number	to be used for analyzing sample refification analyses and practions) EPA or Other Analysis Method Number	ples: cal quantitation reporting lin Method Detection Limit
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<ul> <li>16. Chemical meti The Tri-Region should be folle See attached 7</li> <li>17. Submit Site He Contaminant Sought</li> <li>Benzene Toluene</li> </ul>	and associated det nal Board recommended wed. Table 2. Able 2. Able 2. Balth and Safety Plan (s EPA or Other Preparation Mether 8021B 8021B	tection limits d minimum v see Instructio r Sample od Number	to be used for analyzing sample refification analyses and practions) EPA or Other Analysis Method Number SW8020F SW8020F	ples: cal quantitation reporting lin Method Detection Limit 0.005 ppm 0.005 ppm
<ul> <li>16. Chemical meti The Tri-Region should be folle See attached 1</li> <li>17. Submit Site He</li> <li>Contaminant Sought</li> <li>Benzene Toluene</li> <li>Ethylbenzene</li> </ul>	and associated det nal Board recommended wed. Table 2. Able 2.	tection limits d minimum v see Instructio r Sample od Number	to be used for analyzing sample erification analyses and practions) EPA or Other Analysis Method Number SW8020F SW8020F SW8020F SW8020F	ples: cal quantitation reporting lin Method Detection Limit 0.005 ppm 0.005 ppm 0.005 ppm
<ul> <li>16. Chemical meti The Tri-Region should be folic See attached 1</li> <li>17. Submit Site He</li> <li>Contaminant Sought</li> <li>Benzene Toluene</li> <li>Ethylbenzene</li> <li>Xylenes</li> </ul>	and associated det al Board recommended owed. Table 2. Alth and Safety Plan (s FPA or Other Preparation Methor 8021B 8021B 8021B 8021B 8021B 8021B	tection limits d minimum v see Instructio r Sample od Number	to be used for analyzing sample refification analyses and practions) EPA or Other Analysis Method Number SW8020F SW8020F SW8020F SW8020F SW8020F	ples: cal quantitation reporting lin Method Detection Limit 0.005 ppm 0.005 ppm 0.005 ppm 0.010 ppm
<ul> <li>16. Chemical meti The Tri-Region should be folic See attached 1</li> <li>17. Submit Site He</li> <li>Contaminant Sought</li> <li>Benzene Toluene Ethylbenzene Xylenes TPH-D</li> </ul>	and associated det nal Board recommended wed. Table 2. Able 2.	tection limits d minimum v see Instructio r Sample od Number	to be used for analyzing sample refification analyses and practions) EPA or Other Analysis Method Number SW8020F SW8020F SW8020F SW8020F SW8020F SW8020F SW8020F SW8020F CATFH	ples: cal quantitation reporting lin Method Detection Limit 0.005 ppm 0.005 ppm 0.005 ppm 0.010 ppm 1.0 ppm

5

REVIEWED AND APPROVED OAKLAND FIRE DEPARTMENT BY: TITLE SEA DAT ALL INSPECTIONS REQUIRE 48 HOURS NOTICE 18. Submit Workers Compensation Certificate copy

Name of Insurer State Compensation Insurance Fund

19. Submit Plot Plan \*\*\*(Be Instructions)\*\*\*

20. Enclose Permit fee (See Instructions)

21. Report any leaks or contamination to this office within 5 days of discovery.

The written report shall be made on an Underground Storage Tank Unauthorized Leak/Contamination Site Report, (ULR) form.

22. Submit a closure report to this office within 60 days of the tank removal. The report must contain all information listed in item 22 of the instructions.

23. Submit State (Underground storage Tank Permit Application) Forms A and B (one B form for each UST to be removed) (mark box 8 for tank removed in the upper right hand corner)

I declare that to, the best of my knowledge and belief that the statements and information provided above are correct and true.

I understand that information, in addition to that proved above, may be needed in order to obtain approval from the Hazardous Materials Division and that no work is to begin on this project until this plan is approved.

I understand that any changes in design, materials or equipment will void this plan if prior approval is not obtained.

I understand that all work performed during this project will be done in compliance with all applicable OSHA. (Occupational Safety and health Administration) requirements concerning; personnel health and safety. I understand that site and worker safety are solely the responsibility of the property owner or his age and that this responsibility is not shared nor assumed by the City of Oakland.

Once I have received my stamped, accepted closure plan, I will contact the project Hazardous Materials Inspector at least three working days in advance of site-work, to schedule the required inspections.

### **CONTRACTOR INFORMATION**

Name of Business	Golden Gate	Tank	Removal.	Inc.
------------------	-------------	------	----------	------

Name of Individual Annette Chen - Pro	ject Coordinator
Signature	Date 11/6/12
6	REVIEWED AND APPROVED OARLAND FIRE DEPARTMENT BY: TITLE: STAN MAC MAT DATE: 1//19/12 ALL INSPECTIONS REQUIRE 48 HOURS NOTICE
#### PROPERTY OWNER OR MOST RECENT TANK OPERATOR (Circle one)

Name of Business 640 Brooklyn Avenue

Name of Individual Jeffrey Jung

-agent for the owner Date 11/6/12

General Instructions

Signature

- Three (3) copies of this plan plus attachments and permit must be submitted to this Department.
- Any cutting into tanks requires Fire Services Agency approval.
- One complete copy of your approved plan must be at the construction site at all times; a copy of your approved
  plan must also be sent to the landowner.
- State of California Permit Application Forms A and B are to submit to this office One Form A per site, one Form B for each removed tank.

#### Line Item Specific Instructions

#### 2. SITE ADDRESS

Address at which closure is taking place.

- 5. EPA I.D. NO. under which the tanks will be manifested
  - EPA I.D. numbers may be obtained from the State Department of Toxic Substances Control, 916/324-1781
- 6. CONTRACTOR

Prime contractor for the project.

#### 10. STATE REGISTERED HAZARDOUS WASTE TRANSPORTERS/FACILITIES

- a) All residual liquids and sludges are to be removed from tanks before tanks are inerted.
- c) Tanks must be hauled as hazardous waste.
- d) This is the place where tanks will be taken for cleaning.

#### 15) TANK HISTORY AND SAMPLING INFORMATION

Use History - This information is essential and must be accurate. Include tank installation date, products stored in the tank, and the date when the tank was last used.

Material to be sampled - e.g. water, oil, sludge, soil, etc.

Location and depth of samples - e.g. beneath the tank a maximum of two feet below the native soil/backfill interface, side wall at the trig} water mark, etc.

 CHEMICAL METHODS AND ASSOCIATED DETECTION LIMITS See attached Table 2.

#### 17) SITE HEALTH AND SAFETY PLAN

A site specific Health and Safety plan must be submitted. We advocate the site health and safety plan include the following items, at a minimum:

- a) The name and responsibilities of the site health and safety office
- b) An outline of briefings to be held before work each day to appraise employees of site health and safety hazards;

TITLES Z

ALL INSPECTIONS REQUIRE 48 HOURS NOTICE

 c) Identification of health and safety hazards of each work task. Include potential fire, explosion, physical, and chemical hazards;

#### SITE HEALTH AND SAFETY PLAN

- d) For each hazard, identify the action levels (contaminant concentrations in air) or physical conditions;
- e) Description of the work habit changes triggered by the above action levels or physical conditions;
- Frequency and types of air and personnel monitoring along with the environmental sampling techniques and instrumentation - to be used to detect the above action levels. Include instrumentation maintenance and calibration methods and frequencies;
- h) Confined space entry procedures-(if applicable);
- g) Decontamination procedures;
- Measures to be taken to secure the site, excavation and stockpiled soils during and after work hour (e.g. barricades, caution tape, fencing, trench plates, plastic sheeting, security guard, etc.);
- j) Spill containment/emergency/contingency plan. Be sure to include emergency phone numbers, the location of the phone nearest the site, and directions to the hospital near the site;
- k) Documentation that all site workers have received the appropriate ASIA approved training and participate medical surveillance per 29 CFR 1910.120;
- 1) A page for employees to sign acknowledging that they have read and will comply with the site health and safety plan.

The safety plan must be distributed to all employees and contractors working in hazardous waste operations on site. A complete copy of the site health and safety plan along with any standard operating procedures shall be on site and accessible at all times.

Hazardous Waste Operations and Emergency Response; Final Rule, March 6, 1989; Safety plans of certain underground tank sites may need to meet the complete requirements of this Rule.

#### 19) PLOT PLAN

The plan should consist of a scaled view of the facility at which the tank(s) are located and should include the following information:

a) Scale;

b) North Arrow;

c) Property Lines;

d) Location of all structures;

- e) Location of all relevant existing equipment including tanks and piping to be removed and dispensers;
- f) Streets;

g) Underground conduits, sewers water lines utilities;

h) Existing wells; drinking monitoring, etc;

I) Depth to ground water; and

j) All existing tank(s) and piping in addition to the tank(s) being removed.

#### 20) PERMIT FEE

A check payable to the City of Oakland for the amount indicated must accompany the plans.

21) Blank unauthorized Leak/Contamination Site Report forms may be obtained in limited quantities from this office or from the San Francisco Regional Water Quality Control Board (510) 286-1255. Larger quantities may be directly from the State Water Resources Control Board at (916) 739-2421 REVIED/AND\_APPROVED

OAKLAND FIRE DEPARTMENT BY: TITLE tr no DATE: ALL INSPECTIONS REQUIRE 48 HOURS NOTICE

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#### 22) TANK CLOSURE REPORT

The Tank Closure reports: General description of the closure activities, indicate;

- a) Description of tank, fittings and piping conditions. Size and former contents; note any corrosion, pitting, holes;
- b) Description of the excavation itself. Include tank and excavation depth, a log of the stratigraphic units encountered within the excavation, a description of root holes or other potential pathways the depth to any observed ground water, locations of stained or odor-bearing oil, and descriptions of any observed free product or sheen;
- c) Detailed description of sampling methods., i.e. backhoe bucket, drive sampler, bailer, bottles (s), sleeves;
- d) Description of any remedial measures conducted at the time of tank removal;
- e) To-scale figures showing the excavation size and depth, nearby buildings, sample locations and depths, and tank and piping locations include a copy of the plot plan prepared for the Tank Closure-plan under item #19; f) Chain of custody records;
- g) Copies of signed laboratory reports;
- h) Copies of TSDF to Generator Manifests for all hazardous wastes hauled offsite (sludge, Rinsate, tanks and piping, contaminated soil, etc), and
- i) Documentation of the disposal of/and volume and final destination all non-manifested contaminated soil disposed offsite.

REV OAt PROVED BY: ENT TITLE DATE: ALL INSPECTIONS REQUIRE 48 HOURS NOTICE



UNIFIED PROGRAM	CONSOLIDATED FORM TAN	IKS		
UNDERGROUND STORAGE TANKS - FACILITY				
	(one page per site) Page of			
TYPE OF ACTION I 1. NEW SITE PERMIT 3. RENEWAL PERMIT	5. CHANGE OF INFORMATION 7. PERMANENTLY CLOSED SITE			
(Check one item only)	6.TEMPORARY SITE CLOSURE	400		
I. FACILITY/S	TE INFORMATION			
BUSINESS NAME (Same as FACILITY NAME or DBA – Doing Business As) 3 FACILI 640 Brooklyn Avenue	YID#	1		
NEAREST CROSS STREET 401	FACILITY OWNER TYPE 4. LOCAL AGENCY/DISTRICT	[*		
	$\square 1. CORPORATION \square 5. COUNTY AGENCY* \square 5. COUNTY AGENCY* \square 5. COUNTY AGENCY* \square 5. COUNTY AGENCY*$			
TYPE 2. DISTRIBUTOR 4, PROCESSOR 6. OTHER 403	□ 3. PARTNERSHIP □ 7. FEDERAL AGENCY*	402		
TOTAL NUMBER OF TANKS REMAINING AT SITE thistiands?	*If owner of UST is a public agency: name of supervisor of division, section or office wh operates the UST (This is the contact person for the tank records.)	ních		
1 (one) 404 🗆 Yes 🖄 No 405		406		
II. PROPERTY OV	NER INFORMATION			
PROPERTY OWNER NAME Jeffrey Jung	<sup>407</sup> PHONE 650-574-3773	408		
MAILING OR STREET ADDRESS		409		
CITY 410	STATE 411 ZIP CODE	412		
Foster City	CA 94404			
PROPERTY OWNER TYPE 1. CORPORATION 2. INDIVIDUAL	$ \Box 4, \text{ LOCAL AGENCY / DISTRICT } \Box 6. \text{ STATE AGENCY} $	413		
TANK OWNER NAME	414 PHONE	415		
Same as #2				
MAILING OR STREET ADDRESS		416		
CITY 417	STATE 418 ZIP CODE	419		
TANK OWNER TYPE 1. CORPORATION 2. INDIVIDUAL	4. LOCAL AGENCY / DISTRICT 6. STATE AGENCY	420		
3. PARTNERSH	IP 🗍 5. COUNTY AGENCY 🗌 7. FEDERAL AGENCY			
IV. BOARD OF EQUALIZATION US	T STORAGE FEE ACCOUNT NUMBER			
TY (TK) HQ 44-	Call (916) 322-9669 if questions arise	421		
V. PETROLEUM UST FI	ANCIAL RESPONSIBILITY			
INDICATE METHOD(s) 🛛 1. SELF-INSURED 🛛 4. SURETY BOND	7. STATE FUND 10. LOCAL GOVT MECHAN	ISM		
2. GUARANTEE 5. LETTER OF CREDI	□ 99. OTHER:	422		
VI. LEGAL NOTIFICATION AND MAILING ADDRESS				
Check one box to indicate which address should be used for legal notifications and mailing. Legal notifications and mailings will be sent to the tank owner unless box 1 or 2 is checked.	1. FACILITY 2. PROPERTY OWNER X 3. TANK OWNER	423		
VII. APPLICA	NT SIGNATURE			
Certification - I certify that the information provided herein is true and accurate to the best of	my knowledge.			
SIGNATURE OF APPLICANT	DATE 424 PHONE (415) 512-1555	425		
NAME OF APPLICANT (plot) Apporte Chen - On Bohalf of Owner	TITLE OF APPLICANT Project Coordinator	427		
STATE UST FACILITY NUMBER (For local use only) 428	1998 UPGRADE CERTIFICATE NUMBER (For local use only)	429		

UPCF (1/99 revised)

UNIFIED PROGRAM CONSOLIDATED FORM									
TANKS									
UND	ĽKGK	UUND S.	IUKAGE I	AN	<b>79</b> – 1	IAN	NTAGE I	(two pages p	er tank)
· · · · · · · · · · · · · · · · · · ·			<u> </u>					Page	_of
TYPE OF ACTION I NEW SITE PERM	ยวิ 🗆 4	AMENDED PERM	AIT 🔲 5 CHANGE O	F INFOR	MATION	□ 6 T	EMPORARY SITE CL	DSURE	
(Check one item only)	-		<u> </u>			□ 7 F	PERMANENTLY CLOS	SED ON SITE	430
3 RENEWAL PER	MIT (S	pecify reason - for loca	al use only) (Specify reaso	n – for loca	i use only)	<b>X</b> I 8 1	TANK REMOVED		430
640 Brooklyn Ave . Oa	in DBA - Doing	Busidess As)	TACILITI ID.	1	ji o pi o socio portesta				
LOCATION WITHIN SITE (Optional)				i					431
64	0 Brook	lyn Ave., C	Dakland, CA						
I, TANK DESCRIPTION (A scale	d plot plan wi	ith the location of	f the UST system incl	uding bu	ildings an	nd landm	arks shall be submitte	ed to the local agenc	y.)
TANK ID # Unknown	TANK M	ANUFACTURE	<sup>K</sup> Unknown	455	Lf"Yes",	complete o	IN TALIZED TAINK	nt. res [] NO	434
DATE INSTALLED (YEAR/MO) 435 Unknown	TANK CA	APACITY IN GA	LLONS	436	NUMB	BER OF (	COMPARTMENTS One		437
ADDITIONAL DESCRIPTION (For local u	se only)				i				438
			II. TANK CONTEN	TS					
TANK USE 439 PETI	ROLEUM TY	PE			7 e	ला महर			440
(If marked complete Petroleum Tyne)	REGULAR	UNLEADED	LI 2. LEADED	L L	15. JET1 16. AV7A	UEL MION FU	ET.		
	MDGRAD	E UNLEADED	4. GASOHOL	L IX	99. OTH	ER			
Image: State of the state of t	MON NAM	E (from Hazardous M	Materials Inventory page)	44	i CAS	S# (firom H	azardous Materials Inventor	y page )	442
4. HAZARDOUS WASTE	ating	Oil							
(Includes Used Oil)	Juling	0							
95. UNKNOWN									
			TANK CONSTRUC			TWATT 1	WITH INTERNAL DE A	DDER SYSTEM	443
(Type of TANK LARI, SINC	ILE WALL	EXTERN	WALL WITH OR MEMBRANE LINE	R □9	5. UNKN	OWN	WITH EVIDENTAL DEP	BDER BIBERI	1-12
	BLE WALL	4. SIGNLE	WALL IN VAULT		9. OTHE	R			
TANK MATERIAL - primary tank A I. BAR	E STEEL	3. FIBERG	LASS / PLASTIC	<b>5</b>	. CONCR	ETE		95. UNKNOWN	444
(Check one item only)	INLESS STEE	L 🚺 4. STEEL C	CLAD W/FIBERGLASS	8.	FRP CON	MPTIBLE	W/100% METHANOL	/ 🛄 99. OTHER	
TANK MATERIAL - secondary tank 11. BA	RESTEEL	3. FIBER	GLASS / PLASTIC		5. CONC	RETE		95. UNKNOWN	445
(Check one item oaly)	AINLESS STE	EL 🔲 4. STEEI	L CLAD W/FIBERGLA	ss 🗖	8. FRP C	OMPTIB)	LE W/100% METHAN	DL 🔲 99. OTHER	
		REINF	FORCED PLASTIC (FR	P) 🛛	10. COATI	ED STEE	Ĺ		
1		□ 5. CONC	RETE			100 100			147
TANK INTERIOR LINING	R LINED	LI 3. EPOXY LINI		65 LININO	у <u>Ж</u>	195. UNK		DATE INSTALLED	49/
OR COATING 2 ALKYD (Check one item only)	LINING	☐ 4 PHENOLIC L	INING L 6 UNLIN	ЕD	L 9	99 O I HEI	x	(For loca	l use only)
OTHER CORROSION 1 MANUFA	CTURED CAT	THODIC 3 FI	BERGLASS REINFORG	CED PLAS	STIC	🕱 95 UN	VKNOWN 448	DATE INSTALLED	449
PROTECTION IF APPLICABLE PROTECT	ION	□ 4 IM	PRESSED CURRENT			<b>□</b> 99 01	THER		
(Check one item only)	TAL ANODE	450		01/2000		GCTTACAT	EOI (ID) (C) (C) (C) (C)	(For loca	use only)
SPIEL AND OVERFILL YEAR INS	IALLED	420 TYPE	(local use only) 451	OVERF.	LLL PROT	ECTION	EQUIPMENT:YEAR I	NOTALLED	432
					LARM ALL FLOA	٩т	LI 3 FILL TUBE	SHUT OFF VALVE	
□ 3 STRIKER PLATE									
IV. TANK LEAK DETECTION (A description of the monitoring program shall be submitted to the local agency.)									
IF SINGLE WALL TANK (Check all that app	aly)		453	IF D	OUBLE	WALL ]	FANK OR TANK W	ITH BLADDER	454
1 VISUAL (EXPOSED PORTION ONLY) 5 MANUAL TANK GAUGING (MTG) 1 VISUAL (SINGLE WALL IN VAULT ONLY)									
2 AUTOMATIC TANK GAUGING (ATG)	ŧ	6 VADOSE ZO	ONE		CONTINU	UOUS IN	TERSTITIAL MONITC	RING	
3 CONTINUOUS ATG		7 GROUNDW	ATER	□3	MANUAI	L MONIT	ORING		
(SID) DIENNIAL TANK TESTING	ILIATION	□ 8 TANK TEST. □ 60 OTHEP	INC						
(SIK) DIENNIAL IANK IESTING	IV. TANK C	LOSURE INFO	RMATION / PERM	IANENT	CLOSE	JRE IN	PLACE		
ESTIMATED DATE LAST USED (YR/MO/D	AY) 455	ESTIMATED OU	UANTITY OF SUBSTA	NCE REN	AINING	456	TANK FILLED WIT	H INERT MATERIAL	? 457
Unknown	-	Unknow	/n	gallon	15			Yes 💢 No	

#### UNIFIED PROGRAM CONSOLIDATED FORM

TANKS

#### **UNDERGROUND STORAGE TANKS – TANK PAGE 2**

VI. PIPING CONSTRUCTION (Check all that apply) Page _ of _			
UNDERGROUND PIPING		ABOVEGROUND PIPING	
SYSTEM TYPE 1. PRESSURE X 2. SUCTION 3. GRA	VITY 4	458 🗋 1. PRESSURE 🗌 2. SUCTION 🔲 3. GRAVITY 459	
CONSTRUCTION 🔀 1. SINGLE WALL 🔲 3. LINED TRENCH 🔲 99. O	THER 4	460 🛄 1. SINGLE WALL 🗌 95. UNKNOWN 462	
MANUFACTURER 🗌 2. DOUBLE WALL 🛛 95. UNKNOWN		2, DOUBLE WALL · · · · · · · · · · · · · · · · · ·	
MANUFACTURER	4	461 MANUFACTURER 463	
X 1, BARE STEEL 6, FRP COMPATIBLE w/100% METHANOL	I. BARË	E STEEL 6. FRP COMPATIBLE W/100% METHANOL	
2. STAINLESS STEEL 7. GALVANIZED STEEL Unknown	2. STAE	INLESS STEEL UT 7. GALVANIZED STEEL	
□ 3. PLASTIC COMPATIBLE W/ CONTENTS L. 99. Other	□ 3. PLAS	STIC COMPATIBLE W/ CONTENTS [] 8. FLEXIBLE (HDPE) [] 99. UTHER	
		ERGLASS 9. CATRODIC PROTECTION	
VIL PIPING LEAK DETECTION 404	at apply) (A des	escription of the monitoring program shall be submitted to the local agency.)	
UNDERGROUND PIPING		ABOVEGROUND PIPING	
SINGLE WALL PIPING	466	SINGLE WALL PIPING 467	
PRESSURIZED PIPING (Check all that apply):		PRESSURIZED PIPING (Check all that apply):	
[1] I. ELECTRONIC LINE LEAK DETECTOR 3.0 GPH TEST <u>WITH</u> AUYO PUM OFF FOR LEAK, SYSTEM FAILURE, AND SYSTEM DISCONNECTION - AUDIBLE AND VISUAL ALARMS.	4P SHUT +	LY I. ELECTRONIC LINE LEAK DETECTOR 3.0 GPH TEST <u>WITH</u> AUTO PUMP SHUT OFF FOR LEAK, SYSTEM FAILURE, AND SYSTEM DISCONNECTION - AUDIBLE AND VISUAL ALARMS.	
2. MONTHLY 0.2 GPH TEST	1	2. MONTHLY 0.2 GPH TEST	
□ 3. ANNUAL INTEGRITY TEST (0.1GPH)		□ 3. ANNUAL INTEGRITY TEST (0.1GPH)	
	ŀ	☐ 4. DAILY VISUAL CHECK	
CONVENTIONAL SUCTION SYSTEMS	TINC	CONVENTIONAL SUCTION SYSTEMS (Check all that apply)	
INTEGRITY TEST (0.1 GPH)	ETIG	☐ 5. DAILY VISUAL MONITORING OF PIPING AND PUMPING SYSTEM	
SAFE SUCTION SYSTEMS (NO VALUES IN BELOW GROUNDPIPING):		☐ 6. TRIENNIAL INTEGRITY TEST (0.1 GPH)	
☐ 7. SELF MONITORING		SAFE SUCTION SYSTEMS (NO VALVES IN BELOW GROUND PIPING):	
GRAVITY FLOW		7. SELF MONITORING	
9, BIENNIAL INTEGRITY TEST (0.1 GPH)		GRAVITY FLOW (Check all that apply):	
		B. DAILY VISUAL MONITORING	
		9. BIENNIAL INTEGRITY TEST (0.1 GPH)	
SECONDARILY CONTAINED PIPING		SECONDARILY CONTAINED PIPING	
PRESSURIZED PIPING (Check all that apply): to CONTINUOUS TURBINE SUMP SENSOR WITH AUDIBLE AND VISUAL		PRESSURIZED PIPING (Check all that apply): 10. CONTINUOUS TURBINE SUMP SENSOR WITH AUDIBLE AND VISUAL	
ALARMS AND (Check one)		ALARMS AND (Check one)	
a. AUTO PUMP SHUT OFF WHEN A LEAK OCCURS		a AUTO PUMP SHUT OFF WHEN A LEAK OCCURS	
DISCONNECTION	SIEM	DISCONNECTION	
C. NO AUTO PUMP SHUT OFF		C NO AUTO PUMP SHUT OFF	
11. AUTOMATIC LINE LEAK DETECTOR (3.0 GPH TEST) WITH FLOW S	SHUT	🛄 11. AUTOMATIC LEAK DETECTOR	
12. ANNUAL INTEGRITY TEST (0.1 GPH)		12. ANNUAL INTEGRITY TEST (0.1 GPH)	
SUCTION/GRAVITY SYSTEM		SUCTION/GRAVITY SYSTEM	
☐ 13. CONTINUOUS SUMP SENSOR + AUDIBLE AND VISUAL ALARMS		□ 13. CONTINUOUS SUMP SENSOR + AUDIBLE AND VISUAL ALARMS	
EMERGENCY GENERATORS ONLY (Check all that apply)		EMERGENCY GENERATORS ONLY (Check all that apply)	
i ☐ 14. CONTINUOUS SUMP SENSOR <u>WITHOUT</u> AUTO PUMP SHUT OFF *		LI 14. CONTINUOUS SUMP SENSOR <u>WITHOUT</u> AUTO PUMP SHUT OFF * AUDIBLE AND VISUAL ALARMS	
15. AUTOMATIC LINE LEAK DETECTOR (3.0 GPH TEST) WITHOUT FLO	wc	15. AUTOMATIC LINE LEAK DETECTOR (3.0 GPH TEST)	
SHOT OFF OR RESTRICTION		16. ANNUAL INTEGRITY TEST (0.1 GPH)	
☐ 17. DAILY VISUAL CHECK		☐ 17. DAILY VISUAL CHECK	
VIII DIS	SPENSER (	CONTAINMENT	
DISPENSER CONTAINMENT 1. FLOAT MECHANISM THAT SHUTS	OFF SHEAR	R VALVE 4. DAILY VISUAL CHECK	
DATE INSTALLED 468 🔲 2. CONTINUOUS DISPENSER PAN SEN	SOR + AUD	DIBLE AND VISUAL ALARMS 🛛 🗍 5. TRENCH LINER / MONITORING	
3. CONTINUOUS DISPENSER PAN SENSOR <u>WITH</u> AUTO SHUT OFF FOR DISPENSER + AUDIBLE AND VISUAL ALARMS			
	R/OPERA	ATOR SIGNATURE	
I certify that the information provided herein is true any accurate to the best of my knowledge.			
SIGNATURE OF OWNER/OPERATOR		DATE 470	
NAME OF OWNER/OPRATOR (prost	471	TITLE OF OWNER/OPERATOR 47	
Annette Chen - On Behalf of Owner		Project Coordinator	
Permit Number (For local use only) 473 Permit Approved (i	For local use on	only) 474 Permit Expiration Date (For local use only) 47	



#### **ONSITE CUTTING OF UNDERGROUND TANKS**

Various circumstances at underground tank removals may make on-site cutting of tanks necessary or advantageous. Due to the inherent safety, health and environmental hazards, Golden Gate Tank Removal, Inc. has imposed the following conditions on cutting of any tanks that have held hazardous material of waste.

- 1. The local fire department shall be advised in advance of planned on-site cutting, or of any change from approved plans to include on-site cutting. The cutting of any tank that previously held flammable and/or combustible liquids shall be approved in advance by the local Fire Department inspector.
- 2. Tanks shall be completely emptied and the contents handled in accordance with all pertinent regulations.
- 3. To minimize release of the hazardous waste, any tank to be cut in place shall be cleaned thru triple rinse with water to render it non-hazardous. The final Rinsate or interior wipe sample shall not exceed 100 PPM of product verified by laboratory analysis: or the tank shall be evinced as cleaned to bare metal. Rinsate shall behandled in accordance with all pertinent regulations.
- 4. Any tank that held flammable or combustible liquid shall be inerted prior to cutting. A minimum of 3 pounds of dry ice per 100 gallons of capacity shall be used for a flammable liquid tank. The atmosphere in the tank shall be maintained below 5% of Lower Explosive Limit (LEL) throughout cutting and oxygen level will be monitored and should be 0%.
- 5. Cutting implements shall be approved for use prior to the cutting of any tank. Tanks that are properly inerted may be cut with sazaw only with approval from the local Fire Department. Edged tools may be used in the tank if it is properly inerted. Edged tools shall be lubricated with cutting oil or water spray.
- 6. At least one charged 20BC Fire extinguisher shall be kept on-site, immediately accessible to the workers performing the cutting.
- Occupational Health and Safety provisions of Title 8, California Code of Regulations, shall be observed, including but not limited to site safety plans, confined space entry, respirators and other personal protection equipment and sanitation.
- 8. All other pertinent regulations, including but not limited to those of the local departments of Public Health, Fire and Public Works, the Bay Area Air Quality Management District and the Bay Regional Water Quality Control Board, shall be observed.

1455 Yosemite Avenue - San Francisco, CA 94124 - Tel.: 415.512.1555 Fax: 415.512.0964 General Engineering Contractors License No. 616521





## SITE SAFETY PLAN UST REMOVAL

## 640 BROOKLYN AVENUE OAKLAND, CA 94606

November 6, 2012

## GOLDEN GATE TANK REMOVAL, INC. 1455 YOSEMITE AVENUE SAN FRANCISCO, CALIFORNIA 94124

**PROJECT # 9325** 

1455 Yosemite Avenue - San Francisco, CA 94124 - Tel.: 415.512.1555 Fax: 415.512.0964 General Engineering Contractors License No. 616521

## SITE HAZARD INFORMATION

## PLEASE PROVIDE THE FOLLOWING INFORMATION FOR THE SITE

Owners Name:	Jeffrey	/ Jung	······································
ite Address:	<u>640 Br</u>	ooklyn Avenue	
	Oakla	nd, CA 94606	
Directions to Site:	Cross	Street: Haddon Kd.	· · · · · · · · · · · · · · · · · · ·
Consultant On Site:	Golden Gate	Tank Removal, Inc.	Phone number: 415/512-1555
Site Safety Officer:	<u>Tim Hallen</u>		Phone Number: 415/512-1555
ype of Facility:	commercial		Mobile Number: 415/559-0499
itte Activities: ] Work in Traffic Area ] Other:	Drilling     Groundwate	construction x Tank Excave er Extraction      Vapor Extraction	ation 🛛 Soil Excavation
lazardous Substance	2		
Name (CAS#) Heating Oil		Expected Concentration Minimal	Health Affects Nausea,Dizziness
<u>Physical Hazards</u>		·····	
( Traffic K Underground Hazard Overhead Lines	ds	۲۰	
Level of Protection Eq	uipment		<u></u>
A DB DC	X D X See	Personal Protective Equipment	
Personal Protective Ec	quipment		
R = Required       A = As         R       Hard Hat         A       Safety Boots         R       Orange Vest         A       Hearing Prote         Ivvek Covert       Ivvek Covert	Needed ection alls	A Safety Eye wear (Type) A Respirator (Type) 1/2 For A Filter (Type) Carbo A Gloves (Type) <u>Leather</u> Other	1Ce
SITE HAZARD IN	FORMATIC	•	
Monitoring Equipmen	<u>t On Site</u>		
<ul> <li>Organic Vapor And</li> <li>Oxygen Meter</li> </ul>	slyzer	<ul> <li>Air Sampling Pump</li> <li>X Combustible Gas Meter</li> </ul>	

- D H2S Meter

- X Combustible Gas Meter
- Other \_\_\_\_\_

Site Control Measures Normal Pedestrian, Orange Cones, Traffic Signs, NO SMOKING Signs

Decontamination Pr	ocedures <u>WarmWat</u>	er Soap			
Hospital/Clinic	Alameda 1411 F 31# St. Oak	County Medical	l Center	Phone_510-437-4	4800
nospiidi Addiess		n Dont	Q11	Police Dept	011
Paramedic Emergency/Conting	gency Plans & Proced	dures <u>See</u>	e Safety Proce	dures	<u>z 11</u>
Paramedic	gency Plans & Proced	dures <u>See</u>	e Safety Proce	dures	Z 11
Paramedic	911 Fire	dures <u>See</u>	≥ Safety Proce	edures	Z 11
Paramedic Emergency/Conting  Site Hazard Informa	jency Plans & Proced	dures <u>See</u>	Safety Proce	Phone:_4	15/512-1555

#### 1.0 <u>PURPOSE</u>

This operating procedure establishes minimum procedures for protecting personnel against the hazardous properties during the performance of the removal of an underground storage tank and related activities. All employees and subcontractors of Golden Gate Tank Removal shall follow this plan. This plan is developed to work with the California Occupational Safety and Health Code to quickly prepare and issue a site safety plan for the removal of an underground storage tank and the related activities.

### 2.0 <u>APPLICABILITY</u>

This procedure is applicable to the removal of underground storage tanks and hydrocarbon contaminated soil excavation and the related activities. Listed below are some of, but not limited to, the activities and substances that may be encountered during the project.

#### Activities:

The work to be performed will include: the excavation of potentially contaminated soil in order to expose the underground storage tank(s), the stock piling of soil, the removal and disposal of the storage tanks and related equipment, the recovery of soil samples from the excavation and the backfill and resurfacing of the excavation.

#### Substances:

- Diesel Fuel Oil (Home Heating Oil)
- Lead and Unleaded Gasoline
- Diesel Fuel
- Motor Oil (used and unused)
- Hydraulic Oil

#### 3.0 RESPONSIBILITY AND AUTHORITY

Personnel responsible for project safety are the business unit's Health and Safety Officer (HSO), the Project Manager (PM), and the Site Safety Officer (SSO).

The HSO is responsible for reviewing and approving the site safety plan and advising both the PM an SSO on health and safety matters. The HSO has the authority to audit compliance with the provisions of the site safety plan, suspend work or modify work practices for safety reasons, and to dismiss from the site any individual whose conduct on-site endangers the health and safety of themselves and/or others.

The PM is responsible for having the site safety plan prepared and distributed to all field personnel and to an authorized representative of each firm contracted to assist with the on-site work.

The SSO is responsible for assisting the PM with on-site implementation of site safety plan. The SSO may suspend work anytime he/she determines that the provisions of the site safety plan are inadequate to ensure worker safety and inform the PM and HSO of individuals whose on-site behavior jeopardizes their health and safety or the health and safety of others.

### 4.0 HAZARD EVALUATION/CRITERIA

#### Chemical

The general types of chemical hazards associated with this project are exposure to various chemical substances, including but not limited to, petroleum hydrocarbon liquids and vapors, caustic and acidic mists, liquids and solids. Exposure to elevated levels of hydrocarbon vapors presents potential health risks that need to be properly controlled. Work practices and methods will be monitored to limit exposures. Where elevated exposures persist, respiratory protection will be the primary control method to protect personnel from inhalation of hydrocarbon vapors.

#### **Physical**

The general types of physical hazards associated with this project are:

- · Mechanical hazards: swinging objects, machinery, etc.,
- Physical lifting, shoveling, climbing (ladder), etc.,
- Electrical hazards: buried cables and overhead power lines,
- Thermal hazards: heat stress, and heat exhaustion
- Acoustical hazards: excessive noise created by machinery.

#### <u>Flammability</u>

The general types of flammable hazards associated with this project are fire hazards: natural gas and product lines, flammable petroleum hydrocarbons, and motor driven equipment.

Petroleum distillate fuels posses two intrinsic hazardous properties, namely, flammability and toxicity. The flammable property of the oil and fuels presents a far greater hazard to field personnel than toxicity because it is difficult to protect against and can result in catastrophic consequences. Being Flammable, the vapors of volatile components of crude oil and the fuels can be explosive when confined.

Eliminating any one of the three factors needed to produce combustion can minimize the probability of fire and explosion. Two of the factors, ignition source and vapor concentration, can be controlled in many cases. Prohibiting open fires and smoking on-site, installing spark arrestors on engines and turning off engines when lel is approached can control ignition. Introducing dry ice (solid carbon dioxide) in the tank can reduce vapor concentrations in the headspace; the carbon dioxide gas will displace the combustible vapors.

### 5.0 HEALTH AND SAFETY DIRECTIVES

#### Site-Specific Safety Briefing

Before fieldwork begins, all field personnel, including subcontractor employees must be briefed on their work assignments and safety procedures contained in this document.

### Personal Protective Equipment

Each field team member shall have on-site, before the commencement of work, the following personal protective equipment:

- NIOSH-approved full or half face respirator with organic vapor cartridges (cartridges will be supplied pending the work criteria).
- Hard-hat and safety vest
- Leather work boots, steel toed boots are strongly suggested
- Leather work gloves
- Ear protection, earphone type or ear plugs
- Eye protection, safety glasses and splash proof goggles

#### Equipment Usage

Hard-hats and safety vests must be worn at all times when on the job site.

Safety goggles must be worn when working within 10 feet of any operating heavy equipment (e.g., jackhammer, and backhoe). Splash-proof goggles or face shields must be worn whenever product quantities of fuel are encountered.

Respirators must be worn whenever total airborne hydrocarbon levels in the breathing zone of field personnel reach or exceed a 15-minute average of 25 ppm. If total airborne hydrocarbons in the breathing zone exceed 100 ppm, work must be suspended, personnel directed to move a safe distance from the source, and the HSO or designee consulted.

Chemical-resistant safety boots must be worn during the performance of work where surface soil is obviously contaminated.

#### Monitoring

Personal exposure to ambient airborne hazards will be monitored to assure that personnel exposures do not exceed acceptable limits and that appropriate selection of protective equipment items is made. If concentrations approach criteria levels, all personnel will be notified of possible site safety changes. Audits will be conducted by the Safety Officer to insure compliance with the Safety Plan and to provide additional support as required.

#### Area Control

Access to hazardous and potential hazardous work sites must be controlled to reduce the probability of occurrence of physical injury and chemical exposure of field personnel, visitors and the public. A hazardous or potential hazardous area includes area where a tank removal or related activity is being performed and/or field personnel are required to wear respirators.

Cordons, barricades, and/or emergency traffic cones or posts, depending on conditions must identify the boundaries of hazardous and potentially hazardous areas. If such areas are left unattended, signs warning of the danger and forbidding entry must be placed around the perimeter if the areas are accessible to the public. Trenches and other large holes must be guarded with wooded or metal barricades spaced no further than 20 feet apart and connected with yellow caution tape. The barricades must be placed no less than two feet from the edge of the excavation or hole.

Entry to hazardous areas shall be limited to individuals who must work in those areas. Unofficial visitors must not be permitted to enter hazardous areas while work in those areas is in progress.

Official visitors should be discouraged from entering hazardous areas, but may be allowed to enter only if they agree to abide by the safety officer and are informed of the potential dangers that could be encountered in the areas.

### Decontamination

Field decontamination of personnel and equipment is not required except when contamination is obvious (visual or by odor). Recommended de-contamination procedures follow:

#### Personnel

Gasoline, heating oil, diesel and oil should be removed from skin using a mild detergent and water. Hot water is more effective that cold. Liquid dishwashing detergent is more effective than hand soap. If weathered to an asphaltic condition, mechanics waterless hand cleaner is recommended for initial cleaning followed by detergent and water.

#### Equipment

Gloves, respirators, hard-hats, boots and goggles should be cleaned as described under personnel. However, if boots do not become clean after washing with detergent and water, they should be cleaned with a strong solution of trisodium phosphate and hot water. If this fails, clean with diesel oil followed by detergent and water to remove diesel oil.

Sampling equipment, augers, vehicle undercarriages, and tires should be steamed cleaned. The steam cleaner is a convenient source of hot water for personnel and protective equipment cleaning.

#### 6.0 SAFETY AND HEALTH TRAINING

Each individual on the job site should have been or is preparing to attend the 40 hr. Hazardous Materials Handling Course as required be the California Occupational Safety and Health Association. In addition, the HSO conducts BI-weekly health and safety meetings.

Each morning before fieldwork begins, all field personnel, including subcontractor employees, must attend the sitespecific safety briefing at their work site to receive assignments and safety procedures.

#### 7.0 RECORD KEEPING REQUIREMENT

The following record keeping requirements will be maintained in the program file indefinitely. The particular organization responsible for these records is also listed.

- Copy of this Health and Safety Plan Golden Gate Tank Removal.
- Health and Safety Training Certification Form for Site Safety Officer -- Golden Gate Tank Removal.
- Any accident/illness report forms -- All Parties.
- Personal sampling results -- Golden Gate Tank Removal.
- Documentation of employee's medical ability to perform work and wear respirators -- All parties.

Prepared By:

Annette Chen Golden Gate Tank Removal, Inc.



### TO EXCAVATE IN STREETS OR OTHER SPECIFIED WORK

CIVIL ENGINEERING

#### VALID FOR 90 DAYS FROM DATE OF ISSUANCE

. . .

X 1 1 0       640 Brooklyn Ave., Oakland, CA 94606         Arreox start DATE       APPIOX ZelD DATE       s-JDOUE EMERIGENCY (PIONE RUMARD)         A.S.A.P.       415-512-1555         CONTRACTORS LICENSE RUMAIRED AND CLASS       CITY RUMEREATER XX #         616521 AHAZ, C-8       1307584         ATTENTION:       State law requires that the contractor/owner call Underground Service Alert (USA) two working days before extrasting This permit is not valid unless applicant has secured an inquiry identification number issued by US The USA telephone number is \$11. Underground Service Alert (USA) #:         • 46 hours prior to starting work, you must Gall 510-238-3851 to schedule un inspection.         • 46 hours prior to re-paving, a compaction certificate is required (waived for approved slumy backfill)         OWNELZHULDER         Ibredy align that I an except from the Contractor's License Law for the following reason (Sec 1001-Busines and Professions Code: Any city, cannot you prove allow or the schedule on inspection.         • 46 hours prior to re-paving, a compaction certificate is required (waived for approved slumy backfill)         OWNELZHULDER         OWNELTHING         0 and yophical for permix bink except the paper with ages as the requires the applicant to a schedule and inspection of the contractor's License Law for the following reason for comparts to the terms of the contractor's License Law for the contractor's Li
APPLOX START DATE       APPLOX END DATE         ASS.A.P.       415-512-1555         CONTRACTORS LIGENER NUMBER AND CLASS       CITY MURRINGENTAX #         616521 A.HAZ, C-8       1307584         ATTENTION:       1307584         • State law requires that the contractor/owner call Underground Service Alert (USA) two working days before extranting. This permit is not valid unless applicant has secured an inquiry identification purpher issued by US The USA telephone number is \$11. Underground Service Alert (USA) #         • 48 hours prior to starting work, you must Gall 510-238-3651 to schedule up inspection.         • 48 hours prior to re-paving, a compaction certificate is required (waived for approved alurry backfill)         OWNET/BUILDER         I hereby attim that I an eccept tom the Contractor's License Law for the following reason (Sec 7001-6 Duriness and Professions Code: Any city - control of the projection of the projection, and profession Code, or that he is exempt there from and the basis for the Blegal examption. Any violation of Sectors and Professions Code: Any city - and and the basis of the Business and Professions Code: Any city - and and the basis for the blegal examption. Any violation of Sectors and professions Code: the complexing that code and simple and the submitted of offered for sale.         I hereby attimute that is intergeneration in the sale requirements of the advected of property who builds or improve the sale down will be profered prior to sale. (g) I haw readed is for the other of property and busilds or improve the sale down will be profered prior to sale. (g) I haw readed is for the sale and the basis for the Blegal examption. Any violation of Sect
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616521 A-HAZ, C-8       1307584         ATTENTION:       • State law requires that the contractor/owner call Underground Service Alert (USA) two working days before extravating: This permit is not valid unless applicant has accured an inquiry identification number issued by US. The USA telephone number is \$11. Underground Service Alert (USA) #:
<ul> <li>ATTENTION:</li> <li>State law requires that the contractor/owner call Underground Service Alert (USA) two working days before excavating. This permit is not valid unless applicant has secured an inquiry identification number issued by US         The USA telephone number is \$11. Underground Service Alert (USA) #</li></ul>
<ul> <li>48 hours prior to starting work, you must CALL S1U-238-3091 to achedule un inspection.</li> <li>48 hours prior to re-paving, a compaction Cartificate is required (vaived for approved slumry backfill).</li> </ul> OWNER/BUILDER I hereby aftim that I am except from the Contractor's License Law for the following reason (Sec 1031-5 Business and Professions Code: Any city, cannot which requires a permit to construct, alter, improve, demolish, or repair any structure, prior to it's issuade, also requires the applicant for an permit to file a signed statement that the is licensed parameter to the provisions of the Contractor's License Law Chapter 9 (commencing with Sec. 100). I, as owner of the property, orang employees with wriges as their sole compactation, will do the work, and the structure is not intended offered for sale. I, as owner of the property, orang employees with wriges as their sole compactation, will do the work, and the structure is not intended offered for sale. I, as owner of the property, orang employees with wriges as their sole compactation, will do the work, and the structure is not intended offered for sale. I as owner of the property, orang employees a with wriges as their sole compactation, will do the work, and the structure is not intended of or filer do for sale. I as owner of the property, and except from the sale requirements of the slowe due to: (1) I an improving my prioripal place of residence or apportenate there, (2) the work will be performed prior to sule, (3) I have resided in the residence for the 10 months prior to completion. I as owner of the property, and except comparison to all this addivision on more that two activating any three-year perior (Sec. 704, Business and Professions Code). I as owner of the property, and exception of the selection of property who builds or improve the two more during any three-year perior (Sec. 704, Business and Professions Code). I as comparity that a start of th
OWNER/BUILDER         I hereby aftim that I an exempt from the Contractor's Licease Law for the following reason (Sec. 703).5 Business and Professions Code: Any city - county which requires a permit to construct, alter, improve, demolish, or repair my structure, prior to 1/5 issuance, also requires the applicant for an permit to file a signed statement that be is licensed paramet to the provisions of the Contractor's Licease Law Coupter 9 (conuncuing with Sec. 700 at Division 5 of the Business and Professions Code, or that be is exempt them from and the bosis for the alleged exemption. Any violation of Section 2.5 by any applicant for a permit subjects the applicant to a civil permity of not more than \$6600;         D I, as owner of the property, orang unphyses with wriges as their sole compensation, well do the work, and the structure is not intended offered for sale. I however, the building or improvement is sold within ane year of completions, the owner oblight on owner of property who builds or improve the the surport, on zeampt from the sale requirements of the above due to: (1) 1 was improving the proving that her's di not build or improve for the purpose of sale).         I, as owner of the property, on exemption in this abdivision on unore that two structures more than once during any three-year perior. (30: 7044, Business and Professions Code).         C, as owner of the property, an exclusively constructing with licensed constructors to construct the project (Sec. 7044, Business and Professions Code).         C, as owner of the property, an exclusively constructing with licensed constructors to construct the project (Sec. 7044, Business and Professions Code).         C, as owner of the property, an exclusively constructing with licensed constructors to construct the projeci (Sec. 7044, Business and Professions Code).<
D I and exempt under SecB&PC for this reason
MOTICE TO APPLICANT If, after nuking this Certificate of Exemption, you should become subject to the Worker's Compensation provisions of the Labor Code, you must forthwith comply with such provisions or this permit shall be deemed revolved. This permit is issued parsuant to all provisions of Title 12, Chapter 12.12 of the Oakland Municipal Code. It is granted upon the express condition that the permitter shall be responsible for all claims and fabilities arising out of work performed under the permit or arising out of permitter's failure to perform the obligations with respect to street uninterstance. The permittee shall, and by acceptance of the permit geness to defend, indemnify, save and hok lineraless the City, it officers and employees, from and against any and all suits, claims, or actions brought by any person for or on account of any bodily injaries, discuse of permittee's failure to perform out/or property sustained or arising in the construction of the work performed under the permit or in consequence of permittee's failure to perform
the obligations with respect to street instituenance. This permit is your SU days from the date of issuance unless an extension is granted by the Director of the Office of Planning and Building.
I hereby aftirms that I are licensed toder profisions of Chapter 9 of Division 5 of the Business and Professions Code and my license is in full force and effect (if contractor), that I have read this permit and agree to its requirements, and that the above information is true and correct under penalty of law.
x
Signature of Permittee / D/Agont for D Contractor D Owners Date
DATE STHEET LSS $T = \begin{bmatrix} \text{RECURED.} & \text{DYES} & \text{IND} \end{bmatrix}$ (NOV $T = J$ AND $J$ NOV $T = J$ AND $J$ OYES $D$ NO $J$ (TAM = MAN & PM = GPM) = DYES $D$ NO.
ISSUED BY

WCeda-server3/permit counter/COUNTER/ENG\*SWCS COUNTER/FORMS/X Application, 2012.doc....

Civil Engineer 23772

PROJECT:	Underground Storage Tank Removal	Project	: 9325
ADDRESS:	640 Broklyn Avenue, Oakland, California	Date:	11/07/2012
FOR:	GOLDEN GATE TANK REMOVAL	Page:	1 of 6

### TANK EXCAVATION SHORING CALCULATIONS

Wooden shoring designed as temporary braced cofferdam

INDEX	
Soil Parameters	Page 2
Design of Lagging and Soldier Beams	Page 3
Design of Struts	Page 4
Shoring Plan and Section	Page 5
General Notes	Page 6

#### SUMMARY

Maximum depth of Excavation Maximum size of Excavation Lagging	6 feet 11 feet by 6 feet 3 x12 Douglas Fir or Larch dense,	select structural for 11 foot side
	2 x12 Douglas Fir or Larch dense,	construction for 6 foot side
Soldier Beams	4x4 Douglas Fir or Larch	Construction Grade
Struts	4x4 Douglas Fir or Larch	Construction Grade

o. 23772 12-31-13 OF CALIF

670 Vernon Street #401, Oakland, CA 94610 Telephone (415) 235 4648 Fax (510) 595 6821

Cirril	Engingen	72777
CIVII	Engineer	23112

PROJECT:	Underground Storage Tank Removal	Project	: 9325
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Soil Parameters for general braced excavations in typical San Francisco soils



Civil Engineer 23772

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**Design of Lagging Planks**   $M_{11} = \frac{wl^2}{8} = \frac{(144)(11)(11)}{8} = 2178 \text{ ft-lbs}$  $M_6 = \frac{wl^2}{8} = \frac{(144)(6)(6)}{8} = 648 \text{ ft-lbs}$ 



For 11 foot length, try  $3 \ge 12$  plank, Douglas Fir or Larch dense select  $F_{D}=2050$  psi.

For 6 foot length try  $2 \times 12$  DF or L, dense construction, F = 1750 psi.

$S_{11} = \frac{bd^2}{6} = \frac{(11.5)(2.5)(2.5)}{6} = 12 \text{ inch}^3$	$S_6 = \frac{(11.5)(1.5)(1.5)(1.5)}{6} = 4.3 \text{ inch}^3$
$S_{reqd} = \frac{Mb}{F_b} = \frac{(2178)(11.5)}{(2050)} = 12.2 \approx 12 \text{ OK}$	$S_{reqd} = \frac{(648)(11.5)}{(1750)} = 4.3 \text{ OK}$

#### Design of Soldier Beam (bending on both axis)





$$p_y = (144) (5.5) = 792$$
 lbs

$$p_x = (144) (3.5) = 432$$
 lbs



y



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#### **Design of Struts**

Try 4" x 4 D.F. L. Construction grade, actual dimensions are 3.5" x 3.5"

- $P = load on strut = 2' \times 5.5' \times 144 psf = 1584 lbs$
- L = length of strut = 6'

d = thickness of strut = 3.5"

$$\frac{L}{d} = \frac{6 \text{ ft x } 12 \text{ in/ft}}{3.5"} = 21 \ge 11, \text{ as intermediate column and } \le 50, \\ \text{design as simple solid column.}$$

$$F'_{c} = \frac{0.30E}{\left(\frac{L}{d}\right)^{2}} = \frac{(0.30)(1,500,000)}{(21)^{2}} = 1020 \text{ psi}$$

Allowable Load =  $P_a = (F'_c (d)^2 = (1020) (3.5) (3.5) = 12,495 \ge 1584$  lbs

4" x 4" D.F. L. Construction grade OK



Civil Engineer 23772

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### **GENERAL NOTES**

#### **GENERAL NOTES**

- 1. All construction shall conform to the local Building and Safety Codes and to the rules and regulation of all agencies having jurisdiction.
- 2. The Contractor shall verify all existing grades as shown on the drawings and any variation which would modify the shoring system shall be reported to the engineer.
- 3. General site excavation, installation of shoring system work shall be coordinated with the tank removal to prevent loss of ground and caving of banks.
- 4. Shoring systems are intended only as a temporary means of retaining the excavated banks during tank removal.
- 5. The Engineer or an authorized testing and inspection agency, shall provide intermittent observation services for installation of shoring system to confirm conformance of the work with the drawings. Such service shall be furnished by General Contractor or Owner of Project.
- 6. Shoring system design was based on soil information provided by John Carver Consulting Civil Engineer on nearby properties.
- 7. Settlement and deflection readings, if required shall be made by a qualified surveyor provided by the General Contractor.
- 8. The Contractors shall verify the location of all utilities and shall protect from harm as required to prevent damage and to maintain their use. Consult the engineer if utility lines or piping are encountered during shoring construction. Use care in installation so that indications of utilities in the way are recognized.
- 9. All structural details or shapes shown are minimum sizes required, equal or greater sizes may be substituted with the Engineer's prior approval.
- 10. Any damage to adjoining properties, streets, or utilities, caused by shoring work shall be repaired and restored to original condition at Shoring Contractors expense.
- 11. Stockpiling or storage of materials on or near shoring bulkhead is not permitted unless noted on drawings or with prior approval of the Engineer.
- 12. Any conditions which vary from the basic assumptions made in these calculations shall be brought to the attention of the engineer. Additional details will be provided for actual conditions.

