

BLYMYER & SONS engineers, inc.

March 8, 1988
BEI Job No. 87139

Mr. Ariu Levi
ALAMEDA COUNTY HEALTH AGENCY
470-27th Street
Room #322
Oakland, CA. 94612

SUBJECT: FINAL CLOSURE REPORT
ENCINAL TERMINALS
1521 BUENA VISTA AVENUE
ALAMEDA, CALIFORNIA 94501

Dear Mr. Levi:

Please find enclosed the Final Closure Report for underground tanks at the subject facility. If you have any questions or need additional information, please contact me at 521-3773.

Very truly yours,

BLYMYER ENGINEERS, INC.

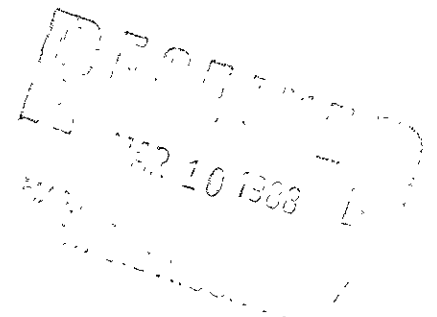


Michael S. Lewis

MSL/ds

Attachments

cc: Mr. Peter Wang - ENCINAL TERMINALS
Mr. Harold Cox - UNION BANK



FINAL CLOSURE REPORT

FOR

ENCINAL TERMINALS, INC.
1521 BUENA VISTA AVENUE
ALAMEDA, CALIFORNIA 94501

BY

BLYMYER ENGINEERS, INC.
1829 CLEMENT AVENUE
ALAMEDA, CALIFORNIA 94501

BEI JOB NO. 87139
MARCH 8, 1988

On January 27, 1988, three underground gasoline tanks ranging in capacity from 1,500 gallons to 8,500 gallons were permanently closed at Encinal Terminals.

The tanks were high pressure rinsed prior to removal. All rinsate was transported by Refineries Service (Transporter I.D. No. CAD83166728) to their facility (State Facility No. CAD981997570) for disposal. The tanks were also dry iced before removal.

Two soil samples were taken from the bottom of each tank excavation in locations dictated by Mr. Ariu Levi of the Alameda County Health Agency. In addition, water samples were obtained from the T-1 and T-3 excavations. It was noted at the time that the T-2 and T-3 excavations appeared relatively clean, while the T-1 excavations appeared to have some contamination. All samples were analyzed by Trace Analysis Laboratory for total volatile hydrocarbons and BTX. The analysis results and chain-of-custody documentation are attached in Appendix A.

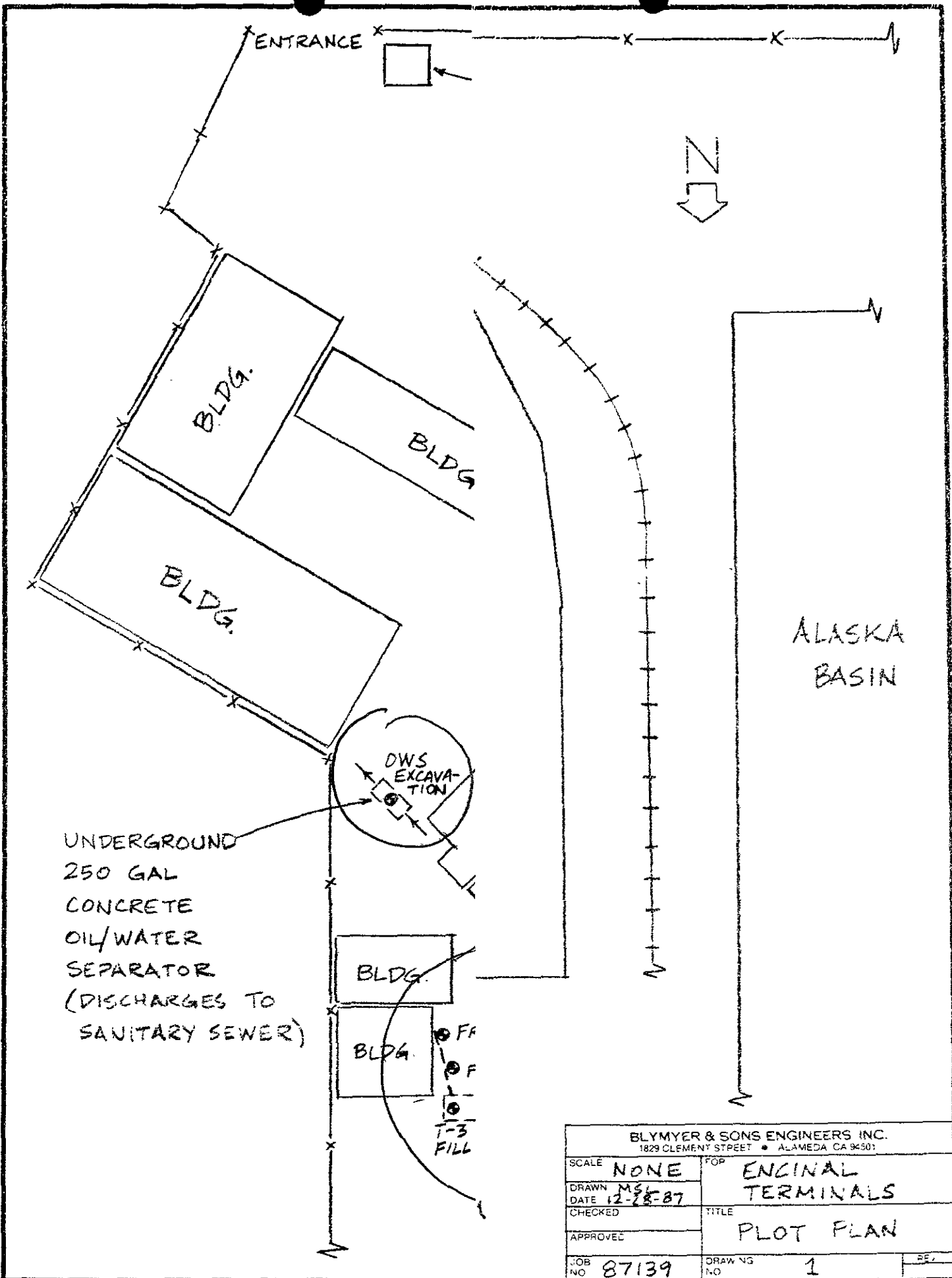
Mr. Levi indicated that the 40 foot fiberglass piping run from T-3 would have to be removed and soil samples taken at 20' intervals. This work was performed on February 1, 1988. Two soil samples (labelled FRP Trench - 20' and FRP Trench - 40') were obtained from the locations indicated on the attached site plan and analyzed by Trace Analysis Laboratory for total volatile hydrocarbons and BTX. The analysis results and chain-of-custody documentation are attached in Appendix B.

The oil/water separator was removed intact on February 1, 1988. The discharge line was permanently capped with concrete. One soil sample was obtained from the bottom of the excavation

and analyzed by Trace Analysis Laboratory for total oil and grease. The analysis results and chain-of-custody documentation are attached in Appendix B. The oil/water separator is on site awaiting transport and disposal at a Class I facility.

— taken only from sidewalks

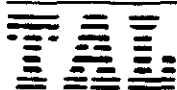
The contaminated soil in the T-1 excavation was excavated on February 1, 1988, and stockpiled on Visqueen in a bermed area. The pile was then covered with Visqueen. Soil samples were obtained from the north, south and east walls of the excavation to confirm that grossly contaminated soil had been removed. The samples were analyzed by Trace Analysis Laboratories for total volatile hydrocarbons and BTX. The analysis results and chain-of-custody documentation are attached in Appendix B. The contaminated soil will be properly disposed of when contaminant concentrations are determined.



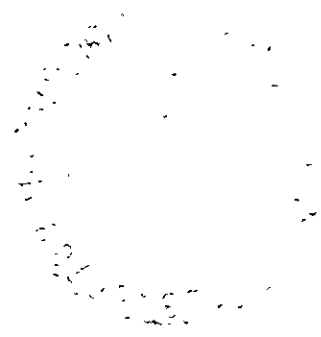
UNDERGROUND
250 GAL
CONCRETE
OIL/WATER
SEPARATOR
(DISCHARGES TO
SANITARY SEWER)

BLYMYER & SONS ENGINEERS INC. 1829 CLEMENT STREET • ALAMEDA CA 94501		
SCALE	NONE	TITLE
DRAWN	MSL	ENCINAL TERMINALS
DATE	12-28-87	PLOT PLAN
CHECKED		
APPROVED		
JOB NO	87139	DRAWING NO
		1

APPENDIX A



DATE: 2/17/88
 LOG NO.: 5615
 DATE SAMPLED: 1/27/88
 DATE RECEIVED: 1/27/88



CUSTOMER: Blymyer and Sons Engineering, Inc.
 REQUESTER: Michael S. Lewis
 PROJECT: No. 87139, Encinal Terminals

Sample Type: Water

*G.W. from
Pit?*

Method and Constituent	Units	No. 1, Water		No. 3, Water	
		Concentration	Detection Limit	Concentration	Detection Limit
Modified EPA Method 8015:					
Volatile Hydrocarbons	ug/l	100,000	1,000	1,800	2
Modified EPA Method 8020:					
Benzene	ug/l	910	80	3.3	0.2
Toluene	ug/l	750	400	3	0.8
Xylenes	ug/l	120	130	10	0.2

DATE: 2/17/88
 LOG NO.: 5615
 DATE SAMPLED: 1/27/88
 DATE RECEIVED: 1/27/88
 PAGE: Two

Sample Type: Soil

Method and Constituent	Units	No. 1, Fill		No. 1, Vent		No. 2, Fill	
		Concentration	Detection Limit	Concentration	Detection Limit	Concentration	Detection Limit
Modified EPA Method 8015:							
Volatile Hydrocarbons	ug/kg	77,000	600	35,000	600	1,300	600
Modified EPA Method 8020:							
Benzene	ug/kg	< 20	20	410	10	180	10
Toluene	ug/kg	< 10	10	32	10	< 10	10
Xylenes	ug/kg	< 20	20	550	20	35	10

Method and Constituent	Units	No. 2, Vent		No. 3, Fill		No. 3, Vent	
		Concentration	Detection Limit	Concentration	Detection Limit	Concentration	Detection Limit
Modified EPA Method 8015:							
Volatile Hydrocarbons	ug/kg	< 600	600	< 600	600	< 600	600
Modified EPA Method 8020:							
Benzene	ug/kg	95	10	230	20	110	20
Toluene	ug/kg	< 10	10	< 10	10	< 80	80
Xylenes	ug/kg	< 20	20	< 20	20	< 20	20

Hugh R. McLean
 Hugh R. McLean
 Supervisory Chemist

CHAIN OF CUSTODY RECORD

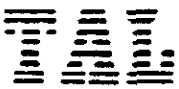
10 day TAT

PROJ NO.		PROJECT NAME				NO OF CONTAINERS						REMARKS	
87139		Encinal Terminals					<div style="display: flex; justify-content: space-around; font-size: small;"> Soil Quart water 40ml water TVH + BTX Oil & Grease </div>						
SAMPLERS: (Signature)													
Michael S. Lee													
STA. NO.	DATE	TIME	COMP	GRAB	STATION LOCATION								
3	1/27/88	2:30P		X	Vent T-3	1	X		X				
3	1/27/88	2:35P		X	Water T-3	1		X	X		} one sample		
3	1/27/88	2:36P		X	Water T-3	1		X	X				
3	1/27/88	2:37P		X	Water T-3	1		X	X				
3	1/27/88	2:45P		X	Fill T-3	1	X		X				
1	1/27/88	3:15P		X	Vent T-1	1	X		X		} one sample		
1	1/27/88	3:25P		X	Water T-1	1		X	X				
1	1/27/88	3:26P		X	Water T-1	1		X	X				
1	1/27/88	3:27P		X	Water T-1	1		X	X				
1	1/27/88	3:30P		X	Fill T-1	1	X		X				
2	1/27/88	3:50P		X	Vent T-2	1	X		X				
2	1/27/88	3:55P		X	Fill T-2	1	X		X				
Relinquished by: (Signature)			Date / Time		Received by: (Signature)		Relinquished by: (Signature)			Date / Time		Received by: (Signature)	
Michael S. Lee			1/27/88 5:40pm										
Relinquished by: (Signature)			Date / Time		Received by: (Signature)		Relinquished by: (Signature)			Date / Time		Received by: (Signature)	
Relinquished by: (Signature)			Date / Time		Received for Laboratory by: (Signature)		Date / Time		Remarks				
					Louis DuPon		1/27/88 5:40pm						

Distribution: Original Accompanies Shipment; Copy to Coordinator Field Files
TRACE ANALYSIS LABORATORY
 3423 INVESTMENT BLVD., UNIT 3
 HAYWARD, CA 94545
 (415) 783-6960

3-0605

APPENDIX B



DATE: 2/26/88
 LOG NO.: 5639
 DATE SAMPLED: 2/1/88
 DATE RECEIVED: 2/2/88

CUSTOMER: Blymyer and Sons Engineers, Inc.
 REQUESTER: Michael S. Lewis
 PROJECT: No. 87139, Encinal Terminals

Sample Type: Soil

Method and Constituent	Units	No. 1, FRP Trench - 20'		No. 2, FRP Trench - 40'		No. 3 - OWS Excavation	
		Concen- tration	Detection Limit	Concen- tration	Detection Limit	Concen- tration	Detection Limit
Modified EPA Method 8015:							
Volatile Hydrocarbons	ug/kg	< 300	300	1,900	300		
Modified EPA Method 8020:							
Benzene	ug/kg	< 30	30	< 30	30		
Toluene	ug/kg	< 20	20	< 20	20		
Xylenes	ug/kg	< 40	40	< 30	30		
Standard Method 503E, Hydrocarbons:							
Oil and Grease	ug/kg					700,000	10,000

DATE: 2/23/88
LOG NO.: 5639
DATE SAMPLED: 2/1/88
DATE RECEIVED: 2/2/88
PAGE: Two

After over-excavating

Sample Type: Soil

Method and Constituent	Units	No. 4, T-1 Redone South Wall		No. 5, T-1 Redone East Wall		No. 6, T-1 Redone North Wall	
		Concentration	Detection Limit	Concentration	Detection Limit	Concentration	Detection Limit
Modified EPA Method 8015:							
Volatile Hydrocarbons	ug/kg	< 300	300	< 300	300	< 300	300
Modified EPA Method 8020:							
Benzene	ug/kg	< 30	30	< 30	30	< 30	30
Toluene	ug/kg	< 20	20	< 20	20	< 20	20
Xylenes	ug/kg	< 30	30	< 30	30	< 40	40

Hugh R. McLean

Hugh R. McLean
Supervisory Chemist

CHAIN OF CUSTODY RECORD

PROJ. NO.		PROJECT NAME				NO. OF CONTAINERS	REMARKS			
87139		ENCINAL TERMINALS								
SAMPLERS: (Signature)						Soil TVH + BTX DIB & Grease				
Michael S. Reed										
STA. NO.	DATE	TIME	COMP	GRAB	STATION LOCATION					
1	2/1/88	9:50A	X		FRP Trench - 20'	1	X	X	10 day turnaround	
2	2/1/88	7:55A	X		FRP Trench - 40'	1	X	X	↓	
3	2/1/88	11:30A	X		OWS Excavation	1	X	X		
4	2/1/88	3:20P	X		T-1 Redone South wall	1	X	X		
5	2/1/88	3:40P	X		T-1 Redone East wall	1	X	X		
6	2/1/88	3:50P	X		T-1 Redone North wall	1	X	X		
Relinquished by: (Signature)		Date / Time	Received by: (Signature)		Relinquished by: (Signature)	Date / Time	Received by: (Signature)			
Michael S. Reed		2/2/88 7:55A	[Signature]		[Signature]	2/2/88 3:20P	[Signature]			
Relinquished by: (Signature)		Date / Time	Received by: (Signature)		Relinquished by: (Signature)	Date / Time	Received by: (Signature)			
Relinquished by: (Signature)		Date / Time	Received for Laboratory by: (Signature)		Date / Time	Remarks				

Distribution: Original Accompanying Shipment; Copy to Coordinator Field Files

3-0605

