



Alameda County  
Environmental Protection Division  
1131 Harbor Bay Parkway, Room 250  
Alameda CA 94502-6577

CC4580

**REMEDIAL ACTION COMPLETION CERTIFICATION**

StID 4025 - 7100 Mountain Blvd, Oakland 94605

June 1, 1995

Mr. Mark Welling  
Gallagher & Burk, Inc  
P.O. Box 7227  
Oakland, CA 94601

Dear Mr. Welling:

This letter confirms the completion of site investigation and remedial action for the four former underground storage tanks (2-10,000 diesel, 1-10,000 gasoline and 1-350 gallon waste oil tank) removed from the above site in October 1992 and April 1994.

Based upon the available information and with the provision that the information provided to this agency was accurate and representative of site conditions, no further action related to the underground tank release is required.

This notice is issued pursuant to a regulation contained in Title 23, Division 3, Chapter 16, Section 2721(e) of the California Code of Regulations. Please contact Ms. Eva Chu at (510) 567-6700 if you have any questions regarding this matter.

Very truly yours,

Rafat A. Shahid, Director

cc: Chief, Division of Environmental Protection  
Kevin Graves, RWQCB  
Mike Harper, SWRCB (with attachment)  
files (g&burk2.2) ee

MAY 04 1995 KG

QUALITY CONTROL BOARD

**CASE CLOSURE SUMMARY**  
**Leaking Underground Fuel Storage Tank Program**

**I. AGENCY INFORMATION**

Date: April 19, 1995

Agency name: Alameda County-HazMat Address: 1131 Harbor Bay Pkwy  
 City/State/Zip: Alameda, CA 94502 Phone: (510) 567-6700  
 Responsible staff person: Eva Chu Title: Hazardous Materials Spec.

**II. CASE INFORMATION**

Site facility name: Gallagher & Burk  
 Site facility address: 7100 Mountain Blvd, Oakland 94605  
 RB LUSTIS Case No: N/A Local Case No./LOP Case No.: 4025  
 URF filing date: 3/11/93 SWEEPS No: N/A

<u>Responsible Parties:</u>	<u>Addresses:</u>	<u>Phone Numbers:</u>
Gallagher & Burk Inc c/o Mark Welling	P.O. Box 7227, Oakland 94601	(510) 261-0466

<u>Tank No:</u>	<u>Size in gal.:</u>	<u>Contents:</u>	<u>Closed in-place or removed?:</u>	<u>Date:</u>
1	350	Waste Oil	Removed	10/2/92
2	10,000	Diesel	Removed	4/7/94
3	10,000	Diesel	Removed	4/7/94
4	10,000	Gasoline	Removed	4/7/94

**III. RELEASE AND SITE CHARACTERIZATION INFORMATION**

Cause and type of release: Unknown  
 Site characterization complete? YES  
 Date approved by oversight agency: 11/17/94  
 Monitoring Wells installed? Yes Number: 1  
 Proper screened interval? Yes, 19.5 - 34.5' in confined aquifer  
 Highest GW depth below ground surface: 4.67' Lowest depth: 6.61'  
 Flow direction: Inferred westerly  
 Most sensitive current use: quarry  
 Are drinking water wells affected? No Aquifer name: Unknown  
 Is surface water affected? No Nearest affected SW name: NA  
 Off-site beneficial use impacts (addresses/locations): None

Report(s) on file? YES Where is report(s) filed? Alameda County  
 1131 Harbor Bay Pkwy  
 Alameda, CA 94502

Treatment and Disposal of Affected Material:

<u>Material</u>	<u>Amount (include units)</u>	<u>Action (Treatment or Disposal w/destination)</u>	<u>Date</u>
Tank	4 USTs and piping	Erickson	10/2/92 & 4/7/94
Rinseate	1,600 gal	Petroleum Recycling	4/5/94
Soil	20 cy	Vasco Rd L.F.	10/1/93
	250 cy	"clean" & reused to fill pits	7/21-25/94
	106 tons	Vasco Rd L.F.	7/21-25/94
	284 tons	Alta Envir L.F., Vacaville	5/9-10/94
	114 tons	Port Costa Materials	5/9-10/94

Maximum Documented Contaminant Concentrations - - Before and After Cleanup

Contaminant	Soil (ppm)		Water (ppb)	
	<u>Before</u>	<u>After</u>	<u>Before*</u>	<u>After</u>
TPH (Gas)	10	ND	ND	ND
TPH (Diesel)	1,800	ND	5,500	ND
Benzene	ND	ND	ND	ND
Toluene	130	ND	ND	ND
Ethylbenzene	ND	ND	ND	ND
Xylenes	ND		ND	ND
Oil & Grease non polar	1,200	ND	6,600	ND
Heavy metals	within backgd levels			
Other Cl-HC chlorobenzene	ND		11	ND
semi-volatiles	ND			ND

\*Grab sample from perched water by waste oil pit

Comments (Depth of Remediation, etc.):

See Section VII, Additional Comments, etc...

IV. CLOSURE

Does completed corrective action protect existing beneficial uses per the Regional Board Basin Plan? **YES**  
 Does completed corrective action protect potential beneficial uses per the Regional Board Basin Plan? **YES**  
 Does corrective action protect public health for current land use? **YES**  
 Site management requirements: **None**

Should corrective action be reviewed if land use changes? **YES**  
 Monitoring wells Decommissioned: **0, pending site closure**  
 Number Decommissioned: **0** Number Retained: **1**  
 List enforcement actions taken: **None**  
 List enforcement actions rescinded: **NA**

V. LOCAL AGENCY REPRESENTATIVE DATA

Name: Eva Chu Title: Haz Mat Specialist

Signature: *[Signature]* Date: 5/2/95

Reviewed by

Name: Jennifer Eberle Title: Haz Mat Specialist

Signature: *[Signature]* Date: 4-24-95

Name: Juliet Shin Title: Sr. Haz Mat Specialist

Signature: *[Signature]* Date: 4/19/95

VI. RWQCB NOTIFICATION

Date Submitted to RB: 5/3/95

RB Response: *Approved*

RWQCB Staff Name: Kevin Graves

Title: AWRCE

Signature: *[Signature]*

Date: 5/22/95

VII. ADDITIONAL COMMENTS, DATA, ETC.

In January 15, 1991 a steel sump used to contain wastewater from Gallagher & Burk's steam cleaning operation was removed. The sump was the source of oily wastewater leaking into the subsurface. After the sump was removed, seven soil samples were collected from the sidewalls, at depths ranging from 2 to 5 feet bgs, and pit bottom, at a depth of 9.5' bgs. Samples were analyzed for TPH, using Method 5520 C/F. Up to 50 ppm TPH was detected. No additional excavations was required. A new sump was installed.

A 350 gallon waste oil UST was removed in October 2, 1992. Soil collected from sidewalls exhibited up to 1,200 ppm non-polar O&G, 1,800 ppm TPH-D, and .13 ppm toluene. A groundwater grab sample detected 6,600 ppb O&G, 5,500 ppb TPH-D, and 11 ppb chlorobenzene. However, this water appears to be minor perched water, as verified when a groundwater monitoring well was installed.

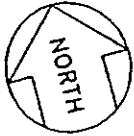
On August 26, 1993 one monitoring well was installed approximately 10' south, southwest of the former waste oil pit. Soil collected from 15.5 and 20.5' depths exhibited up to 17ppm TRPH. Soil and groundwater samples did not detect TPH-D, G, BTEX, SVOCs, or HVOCs. Levels of metals Cd, Cr, Pb, Ni, and Zn were within acceptable background levels.

The waste oil pit was overexcavated to the east, up to the maintenance pit, leaving up to 23,000 ppm TRPH (by EPA Method 418.1), 140 ppm TPH-D, 170 ppm

TPH-G, at 5.5' depth. These soil samples did not detect BTEX or metals above background levels. In June 23, 1994 the maintenance pit was removed and soil overexcavated. Soil samples collected from sidewalls, at 5.5' depth, and from the pit bottom, at 7.5' depth, did not detect any of the above constituents sought. It appears the excavations have removed most of the contaminated soil from the waste oil tank release and maintenance pit operation.

Three USTs (2-10K diesel, 1-10K gasoline) were removed in April 7, 1994. Soil samples collected from native soil beneath the UST at approximately 14' depth did not contain levels of TPH-G, D, benzene, or ethylbenzene above the detection limits. Low levels of toluene (.0087ppm) and xylenes (.98ppm) were detected. Contaminated soils were taken to Alta Environmental Landfill in Vacaville, and to Port Costa Materials in Port Costa for disposal. Approximately 250 cy of "clean" soil was re-used to backfill the pits.

Although groundwater flow direction has not been verified at this site, MW-1 is within 10 feet of the former waste oil UST and maintenance pit, from where most of the contaminated soil was excavated. Groundwater appears to be confined at approximately 21' depth, in a weathered rhyolite formation. Groundwater has been sampled for four non-consecutive quarters (Apr '93, Oct '93, Jan '94 and Apr '94) and has not detected TPH-D, G, TOG, BTEX, 5 metals (Cd, Cr, Pb, Ni, Zn), HVOCs, or SVOCs. It does not appear groundwater has been impacted by the fuel release at this site.



SCALE HOUSE

STOCKPILED SOIL

SHED

MAINTENANCE PIT

MAINTENANCE SHOP

SUMP (REMOVED 1-19-91)

WASTE OIL UST EXCAVATION

(2) 10,000-GAL. DIESEL USTs

PUMP HOUSE

(1) 10,000-GAL. UNLEADED GASOLINE UST

GATE

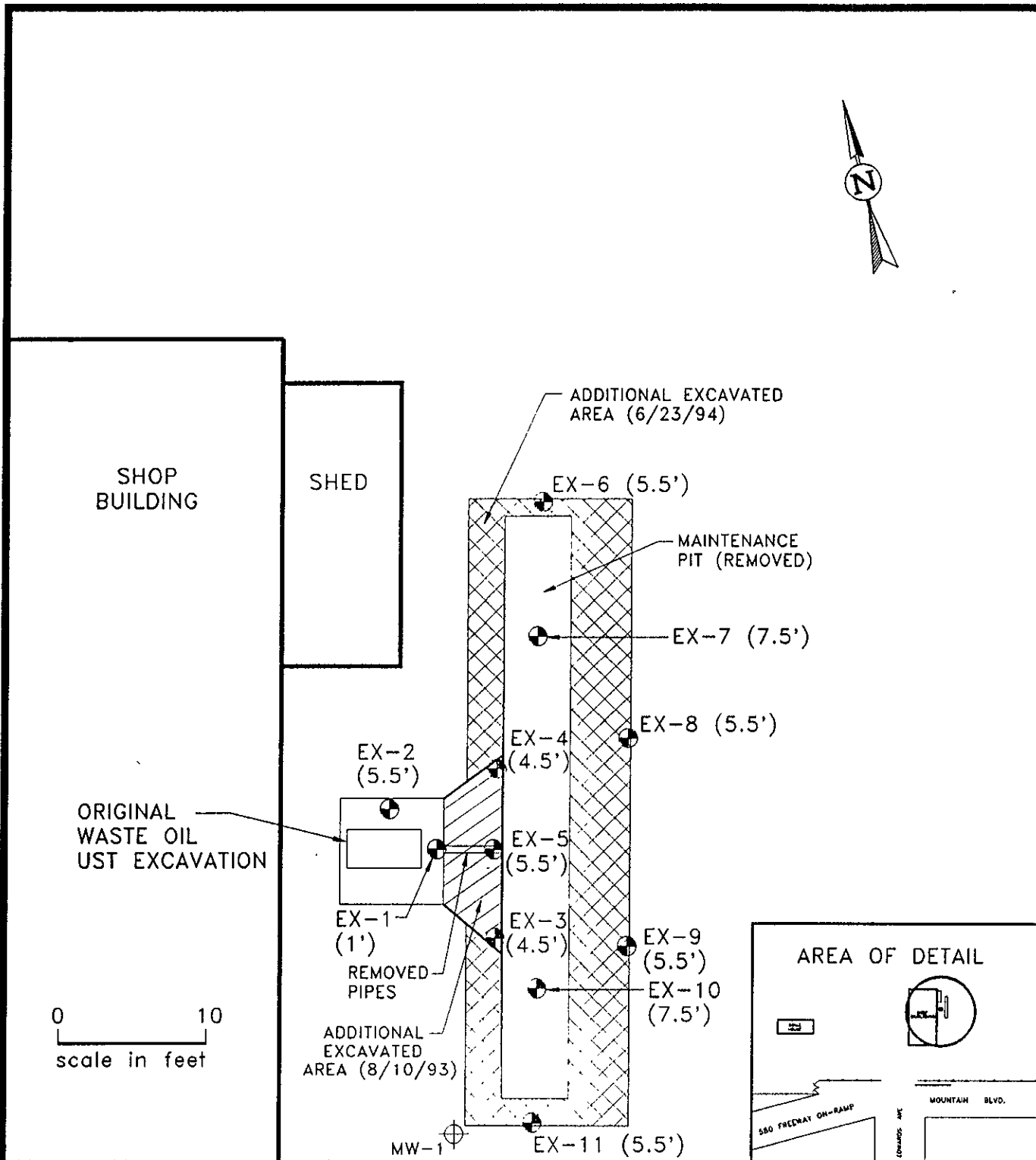
MOUNTAIN BLVD.

580 FREEWAY ON-RAMP

EDWARDS AVE.

0 15 30 60  
SCALE IN FEET

<b>BLMYER</b> ENGINEERS, INC.			<b>LEGEND</b> ⊕ MONITORING WELL UST UNDERGROUND STORAGE TANK	<b>PROJECT</b> GALLAGHER & BURK OAKLAND, CA <b>SITE PLAN</b>	<b>FIGURE</b> 2
BEI JOB NO. 92141	DATE 11/12/93				



**BLMYER**  
ENGINEERS, INC.

BEI

BEI JOB NO.  
93034

DATE  
8/16/94

**LEGEND**

⊕ = MONITORING WELL

UST = UNDERGROUND STORAGE TANK

⊙ = SOIL SAMPLE LOCATION

**PROJECT**  
GALLAGHER & BURK  
OAKLAND, CA  
SOIL SAMPLE  
LOCATIONS

**FIGURE**  
3



Client Acct: 75100  
 Client Name: Gallagher & Burk  
 NET Job No: 92.48616

Date: 10/22/1992  
 Page: 2

Ref: Project No: 92141

SAMPLE DESCRIPTION: EX-1  
 Date Taken: 10/02/1992  
 Time Taken: 11:56  
 LAB Job No: (-139444 )

*collected sidewalk  
 discolored area*

Parameter	Method	Reporting Limit	Results	Units
Oil & Grease (Total)	5520D	50	1,500	mg/Kg
Oil & Grease (Non-Polar)	5520D/F	50	1,200	mg/Kg
Cadmium (ICP)	EPA 6010	2.0	ND	mg/Kg
Chromium (ICP)	EPA 6010	2.0	26	mg/Kg
Lead (GFAA)	EPA 7421	0.2	16	mg/Kg
Nickel (ICP)	EPA 6010	5.0	22	mg/Kg
Zinc (ICP)	EPA 6010	2.0	85	mg/Kg
TPH (Gas/BTXE, Solid)				
METHOD 5030 (GC, FID)				
DATE ANALYZED			10-15-92	
DILUTION FACTOR*			1	
as Gasoline	5030	1	10**	mg/Kg
METHOD 8020 (GC, Solid)				
DATE ANALYZED			10-16-92	
DILUTION FACTOR*			20	
Benzene	8020	2.5	ND	ug/Kg
Ethylbenzene	8020	2.5	ND	ug/Kg
Toluene	8020	2.5	130	ug/Kg
Xylenes (Total)	8020	2.5	ND	ug/Kg
SURROGATE RESULTS				
Bromofluorobenzene	5030		88	% Rec.
METHOD 3550 (GC, FID)				
DILUTION FACTOR*			50	
DATE EXTRACTED			10-13-92	
DATE ANALYZED			10-15-92	
as Diesel	3550	1	1,800***	mg/Kg

\*\* The positive result for Petroleum Hydrocarbons as Gasoline does not appear to have a typical Gasoline pattern.

\*\*\* The positive result for Petroleum Hydrocarbons as Diesel appears to be due to the presence of heavier hydrocarbon rather than Diesel.





Client Acct: 75100  
 Client Name: Gallagher & Burk  
 NET Job No: 92.48616



Date: 10/22/1992  
 Page: 7

Ref: Project No: 92141

SAMPLE DESCRIPTION: EX-2  
 Date Taken: 10/02/1992  
 Time Taken: 12:14  
 LAB Job No: (-139445 )

Parameter	Method	Reporting Limit	Results	Units
Oil & Grease (Total)	5520D	50	ND	mg/Kg
Oil & Grease (Non-Polar)	5520D/F	50	ND	mg/Kg
Cadmium (ICP)	EPA 6010	2.0	ND	mg/Kg
Chromium (ICP)	EPA 6010	2.0	30	mg/Kg
Lead (GFAA)	EPA 7421	0.2	7.5	mg/Kg
Nickel (ICP)	EPA 6010	5.0	29	mg/Kg
Zinc (ICP)	EPA 6010	2.0	170	mg/Kg
TPH (Gas/BTXE, Solid)				
METHOD 5030 (GC, FID)				
DATE ANALYZED			--	
DILUTION FACTOR*			10-15-92	
as Gasoline			1	
5030			1	
METHOD 8020 (GC, Solid)			--	
DATE ANALYZED			10-15-92	
DILUTION FACTOR*			1	
Benzene	8020	2.5	ND	ug/Kg
Ethylbenzene	8020	2.5	ND	ug/Kg
Toluene	8020	2.5	ND	ug/Kg
Xylenes (Total)	8020	2.5	ND	ug/Kg
SURROGATE RESULTS				
Bromofluorobenzene			--	
5030			92	
% Rec.				
METHOD 3550 (GC, FID)				
DILUTION FACTOR*			1	
DATE EXTRACTED			10-13-92	
DATE ANALYZED			10-15-92	
as Diesel			1	
3550			1	
			ND	
			mg/Kg	

**Table I. Summary of Overexcavation Soil Sample Analytical Results**  
**Gallagher & Burk, Inc.**  
**Leona Quarry - Oakland, CA**  
**BEI Job No. 93034**

Sample ID	Sampling Date	TRPH	TEPH	TPPH	Benzene	Toluene	Ethylbenzene	Total Xylenes	Cadmium	Chromium	Lead	Nickel	Zinc	
		418.1	8015M	8015M	8020	8020	8020	8020	8020	6010	6010	6010	6010	6010
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EX-3 (4.5')	8/10/93	23	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.50	4.0	7.1	9.3	88	
EX-4 (4.5')	8/10/93	27	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.50	4.9	5.7	6.4	78	
EX-5 (5.5')	8/10/93	23,000	140	170	<0.125	<0.125	<0.125	<0.125	<0.50	2.0	<5.0	2.7	130	
EX-6 (5.5')	6/23/94	<50	<1.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	0.79	110*	5.5	16	37	
EX-7 (7.5')	6/23/94	<50	<1.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	0.94	65	9.0	17	37	
EX-8 (5.5')	6/23/94	<50	<1.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	0.65	46	6.6	12	32	
EX-9 (5.5')	6/23/94	<50	<1.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.50	41	5.8	10	23	
EX-10(7.5')	6/23/94	<50	<1.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.50	49	5.7	12	16	
EX-11(5.5')	6/23/94	<50	<1.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	0.66	48	8.8	25	41	

TRPH = Total Recoverable Petroleum Hydrocarbons  
 TEPH = Total Extractable Petroleum Hydrocarbons (Diesel Range)  
 TPPH = Total Purgeable Petroleum Hydrocarbons (Gasoline Range)  
 mg/kg = milligrams per kilogram (parts per million)

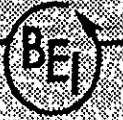
\* Soluble chromium using Waste Extraction Test is 0.82 milligrams per liter (parts per million).

For results shown as <x, x represents the method reporting limit times the appropriate multiplication factor.

**Table I. Summary of Groundwater Sample Analytical Results**  
**BEI Job No. 93034, Gallagher & Bark, Inc.**  
**7100 Mountain Boulevard, Oakland, California**

Sample ID (sample date)	TRPH by EPA Method 418.1 (mg/L)	TPH as Diesel by EPA Method 8015 (µg/L)	TPH as Gasoline by EPA Method 8015 (µg/L)	BTEX by EPA Method 8020 (µg/L)	Cadmium by EPA Method 6010 (mg/L)	Total Chromium by EPA Method 6010 (mg/L)	Lead by EPA Method 7421 (mg/L)	Nickel by EPA Method 6010 (mg/L)	Zinc by EPA Method 6010 (mg/L)	Semi-Volatile Organic Compounds by EPA Method 8270 (µg/L)	Halogenated Volatile Organic Compounds by EPA Method 8010 (µg/L)
MW-1 (4/30/93)	<5.0	<50	<50	ND	<0.010	<0.010	<0.0050	<0.050	<0.010	ND	ND
MW-1 (10/12/93)	<5.0	<50	<50	ND	<0.010	<0.010	<0.0050	<0.050	<0.010	NA	ND
MW-1 (1/19/94)	<1.0	<50	<50	ND	<0.010	<0.010	<0.0050	<0.050	0.010	NA	ND
MW-1 (4/13/94)	<5.0	<50	<50	ND	<0.010	<0.010	<0.0050	<0.050	<0.010	NA	ND

TRPH = Total Recoverable Petroleum Hydrocarbons  
 TPH = Total Petroleum Hydrocarbons  
 BTEX = Benzene, Toluene, Ethylbenzene, and Total Xylenes  
 mg/L = milligrams per liter  
 µg/L = micrograms per liter  
 ND = All constituents not detected at or above the reporting limit  
 NA = Not analyzed by this method  
 <X = Not detected at or above the indicated reporting limit (X)



Job #: 93034  
Log of Bore No.: MW-1  
Client: Gallagher & Burk  
Site: Leona Quarry  
Driller: Bruce Smith  
Drilling Contractor: West Hazmat  
Logged by: Harry Short/Craig Drizin

Date Drilled: 4/26/93  
Drilling Equipment: CME 75  
Bore diameter: 8"  
Total depth: 35 feet  
Initial water level: ▽ 25 feet  
Stabilized water level: ▼ 4.67 feet

Depth (Ft.)	Blows/6 In.	P.I.D. (ppm)	Samples	Well Completion		Unified Soil Classification	Graphic Log	Water Depth
				Completion Depth: 34.5'	Depth (feet)			
				Size/Type	From	To		
				Surface Completion: Flush Mount Traffic Rated Vault w/ locking cap				
				Blank Casing: 2" Diam./PVC	0.0	19.5		
				Slotted Casing: 0.010" Slot-2" Diam./PVC	19.5	34.5		
				Filter Pack: #2-16 Sand	18.5	35.0		
				Seal: Bentonite	16.5	18.5		
				Annular Seal: Cement	4.0	16.5		
				Surface Seal: Concrete	0.0	4.0		
				Bottom Seal: N/A				
DESCRIPTION								
0				0.0-0.8' Concrete			C	
				0.8-3.0' Black, silty clay, fine-grained, dry.			MH	
5				3.0-18.0' Brown, sandy clay, fine to medium-grained, dry, gravels to 1.5", sub-angular.			CL	▼ 4.67'
	10-26-23	0		Sample collected 5-6.5'				
10				Sample collected 10-11.5'			CL	
	8-17-22	0						
15				Sample collected 15.0-16.5'			CL	
	7-11-16	0						
20				18.0-21.0' Yellow-brown, sandy clay, fine-grained, moist, moderately plastic.			CL	
	18-34-60	0		Sample collected at 20.0-21.5'				
25				21.0-35.0' Weathered Leona rhyolite, yellowish-brown, clayey sand and sandy clay, red iron stains, rocks to 2 inches, angular, very dense, non-plastic.			GC	▼ 25.0'
				Wet seam at 25.0-26.0'				
	20-49-60	0		Sample collected 25.0-26.5'				
30								

(continued on next page)

(over)



Job #: 93034  
 Log of Bore No.: MW-1  
 Client: Gallagher & Burk  
 Site: Leona Quarry  
 Driller: Bruce Smith  
 Drilling Contractor: West Hazmat  
 Logged by: Harry Short/Craig Drizin

Date Drilled: 4/26/93  
 Drilling Equipment: CME 75  
 Bore diameter: 8"  
 Total depth: 35 feet  
 Initial water level: ▽ 25 feet  
 Stabilized water level: ▼ 4.67 feet

Depth (Ft.)	Blows/6 in.	P.I.D. (ppm)	Samples	Well Completion		Unified Soil Classification	Graphic Log	Water Depth	
				Completion Depth: 34.5'	Depth (feet)				
				Size/Type	From	To			
				Surface Completion: Flush Mount Traffic Rated Vault w/ locking cap					
				Blank Casing: 2" Diam./PVC	0.0	19.5			
				Slotted Casing: 0.010" Slot-2" Diam./PVC	19.5	34.5			
				Filter Pack: #2-16 Sand	18.5	35.0			
				Seal: Bentonite	16.5	18.5			
				Annular Seal: Concrete/cement	0.0	16.0			
				Bottom Seal: N/A					
DESCRIPTION									
30				21.0-35.0' Weathered Leona rhyolite, yellowish-brown, clayey sand and sandy clay, red iron stains, rocks to 2 inches, angular, very dense, non-plastic.		GC			
35				BOTTOM OF BORE 35.0 FEET					
40									
45									
50									
55									
60									