

Attachment 4
6.4.01

Keco Properties AUG 5 1986

BLYMYER & SONS engineers, inc.

August 4, 1986
BSE Job No. 8527

Mr. Joe Ware
P.I.E./NATIONWIDE
7960 Arlington Expressway
Jacksonville, FL. 32203

#7
1/2

SUBJECT: SOILS ANALYSIS, COST REPORT
EMERYVILLE TERMINAL

Dear Joe:

Please find enclosed for your information the results of the laboratory soils analyses associated with the tank removal at the above-referenced facility. As I indicated over the telephone, additional drilling to define the extent of contamination occurred on Monday, August 4, 1986, with results due August 6, 1986. Once these have been received, I will telephone your office to give you the results and what BSE's proposed cleanup plan is.

Also enclosed is a cost summary for those costs incurred by P.I.E. related to the removal of the tanks. The costs are as follows:

1) Removal of Underground Tanks	\$26,868.00
2) Disposal of Underground Tanks	6,000.00
3) Removal of Underground Tanks Inside of Shop	5,488.00
4) Original Soil Sample	*
5) Additional Sampling to define contamination	15,200.00
6) Well Casings	5,000.00
*Original cost \$940.00, but will increase because of required quick turn around.	
Spent to Date	\$58,556.00

If you have any questions, please call.

Cordially yours,

~~BLYMYER & SONS ENGINEERS, INC.~~

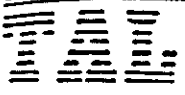


Chris Falbo

CF/ds

Attachments

8.4.86



DATE: 7/30/86

#7
2/2

LOG NO.: 3878 and 3884

CUSTOMER: R. S. Eagan and Company
 REQUESTER: Bob Eagan
 PROJECT: PIE

<u>Sample Type</u>	<u>Sample</u>	<u>Volatile Hydrocarbons</u> mg/kg	<u>Extractable Hydrocarbons</u> mg/kg	<u>Oil and Grease</u> mg/kg
<u>Soil</u>	#1-TR-5 Waste Oil			47,000
	#2-TR-5 Waste Oil Pile			2,000
	#3-TR-4 Motor Oil			1,300
	#4-TR-3 Gasoline Tank	3.3		
	#5-TR-2 Diesel		0.063	
	#6-TR-1 Diesel		6,600	
	#7-TR-3 Gasoline Backfill,	1,200	570	
	#8-TR-9, TR-10, TR-11, waste Oil and Grease			11,000
	#9-4 ft. below tanks, TR-9, TR-10, TR-11			3,800

*COIL related
 A FIVE OR SIX
 SAMPLES...
 L.D.
 3-4-81*

for S. C. Furman, Ph.D.
 Laboratory Director

SF:mlr

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 JUL 31 1986

#7

Laboratory Analysis of Groundwater Samples of August 4, 1986
 Analyzed for Total Hydrocarbons, BTX (results in parts per billion)

Boring Number	Total Hydrocarbons	BTX
GT-1	*3200	B 2500 T 241 X 190
GT-2	16	Benzene-260 Toluene-<2 Xylene-8
GT-3	*20	B 870 T 4.3 X 34
GT-4	4	Benzene-<2 Toluene-7 Xylene-<2
GT-5	<i>less than</i> *±1	[42 T + 2 <i>but 1/4 2</i>
GT-6	<1	Benzene-<2 Toluene-<2 Xylene-5
GT-7	*13	B 480 T 40 1330
GT-8	600	Benzene-77,000 Toluene-56 Xylene-400
Sample # 1 from main excavation pit	2000	Benzene-320 Toluene-<2 Xylene-20

-results reported August 6, 1986, by Kent Parish,
 Groundwater Technology (Concord).

UNDER C.I.S. TANK

TANK

B 33 T < 2 X 200

no free product as of late date 8/8/86 - *W.H.G.*

Laboratory Analysis of Soil Sampling of August 4, 1986
 Analyzed for Total Hydrocarbons (results in parts per million)

Boring Number (Depth)	Result
GT-1-1(6')	11,000(7,900)
GT-1-2(10')	2,500
GT-2-1(6')	26
GT-2-2(11')	16,000
GT-2-3(18')	30
GT-3-1(6')	930(850)
GT-4-1(6')	g (@ 100 ppm)
GT-4-2(11')	680
GT-4-3(16')	g (@ 100 ppm)
GT-5-1(6')	110
GT-5-2(11')	g (@ 100 ppm)
GT-6-1(6')	6,800
GT-6-2(11')	g (@ 100 ppm)
GT-6-3(16')	g (@ 100 ppm)
GT-7-1(6')	110
GT-7-2(11')	1,400
GT-7-3(16')	g (@ 100 ppm)
GT-8-1(8')	38,000

#7

figures in parentheses indicate levels found after a second analysis done on the same sample

8

TABLE 1
Summary of Wells Sampled
May 23, 1997
Powell Street Plaza and Shellmound III Sites
Emeryville, California

Well ID	Semi-Annual Sampling Required	Sample Number	Status of Wells Not Sampled
MW-1	X	97210001	
MW-2	X	97210002	
MW-3		NS	Eliminated from sampling schedule.
MW-4		NS	Abandoned by permit.
MW-5		NS	Abandoned by permit.
MW-6		NS	Eliminated from sampling schedule.
MW-7		NS	Abandoned by permit.
MW-8		NS	Eliminated from sampling schedule.
MW-9		NS	Eliminated from sampling schedule.
MW-10		NS	Eliminated from sampling schedule.
MW-11	X	97210011	
MW-12	X	97210012	
MW-13		NS	Free-product present.
MW-14		NS	Eliminated from sampling schedule.
MW-15		NS	Abandoned by permit.
MW-16		NS	Abandoned by permit.
MW-18		NS	Eliminated from sampling schedule.
MW-19	X	NS	Inaccessible.
MG-1		NS	Inaccessible.
MG-2	X	NS	Inaccessible.
MG-3		NS	Inaccessible.
MG-4	X	NS	Inaccessible.
MG-7	X	97210107	
PZ-1	X	NS	Inaccessible.
Trip Blank		97210000	

Note:

NS = Not sampled



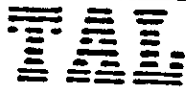
Purgeable Aromatics by GC/MS

Lab #:	152221	Location:	Emeryville
Client:	URS Corporation	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Field ID:	MW-14	Batch#:	63923
Lab ID:	152221-001	Sampled:	05/29/01
Matrix:	Water	Received:	05/29/01
Units:	ug/L	Analyzed:	05/30/01
Diln Fac:	1.000		

Analyte	Result	RL
MTBE	ND	0.5

Surrogate	SPC	Limit
1,2-Dichloroethane-d4	115	78-123
Toluene-d8	99	80-110
Bromofluorobenzene	101	80-115

MW-13 NS free product
MW-3 NS Screen on cover rusted - unable to open



Appendix I

DATE: 7/30/86

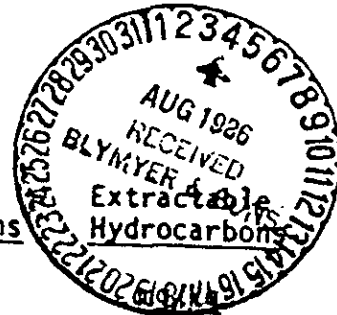
LOG NO.: 3878 and 3884

CUSTOMER: R. S. Eagan and Company

REQUESTER: Bob Eagan

PROJECT: PIE

#6



<u>Sample Type</u>	<u>Sample</u>	<u>Volatile Hydrocarbons</u>	<u>Oil and Grease</u>
		<u>mg/kg</u>	<u>mg/kg</u>
<u>Soil</u>	#1-TR-5 Waste Oil		47,000
	#2-TR-5 Waste Oil Pile		2,000
	#3-TR-4 Motor Oil		1,300
	#4-TR-3 Gasoline Tank	3.3	
	#5-TR-2 Diesel		0.063
	#6-TR-1 Diesel		6,600
	#7-TR-3 Gasoline Backfill,	1,200	570
	#8-TR-9, TR-10, TR-11, waste Oil and Grease		11,000
	#9-4 ft. below tanks, TR-9, TR-10, TR-11		3,800

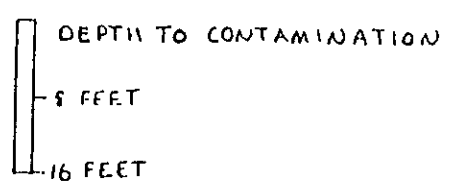
S. C. Furman
for S. C. Furman, Ph.D.
Laboratory Director

SF:mjn

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JUL 31 1986

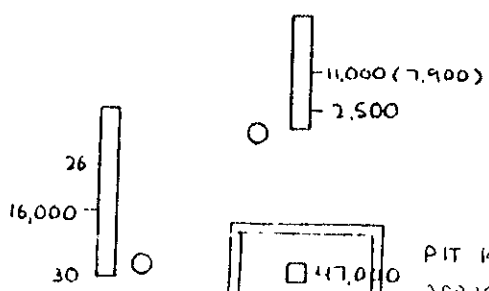
EAGAN & COMPANY

← NORTH

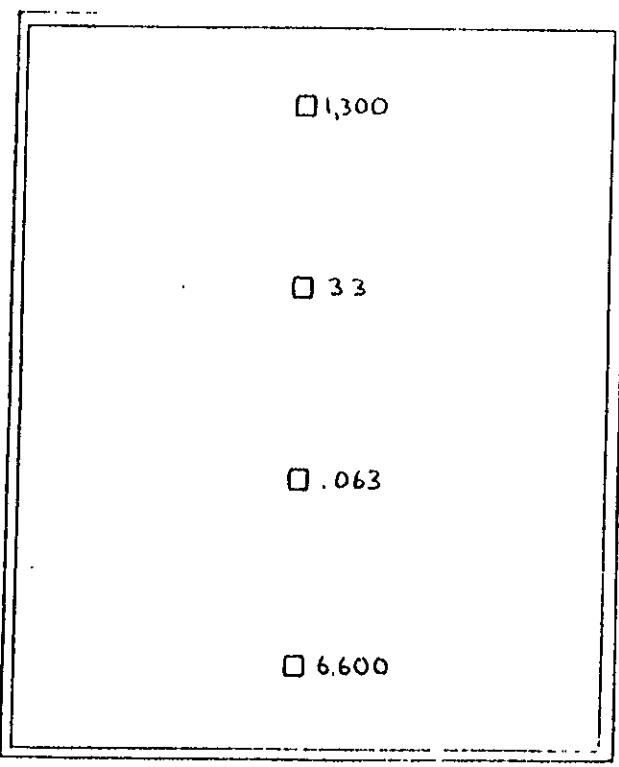
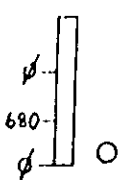
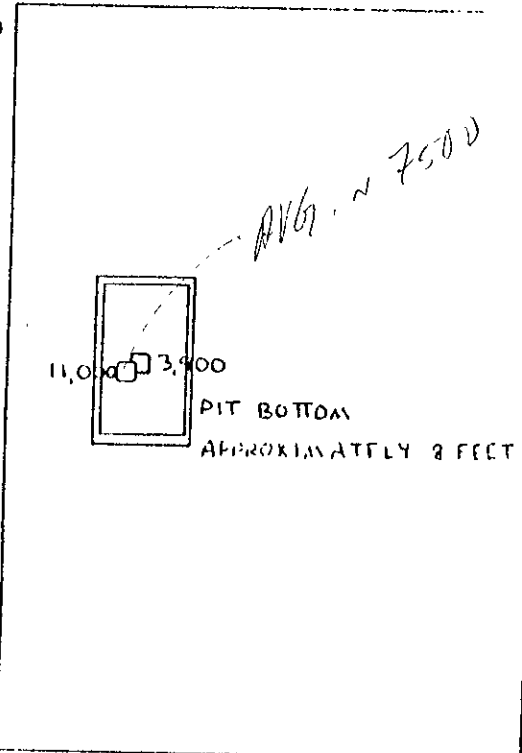
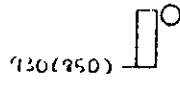


ALL FIGURES IN PARTS PER MILLION
(**) SHOWS SECOND LABORATORY ANALYSIS

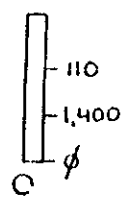
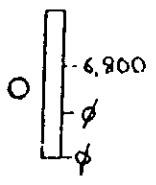
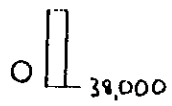
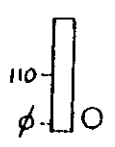
- INITIAL SOIL SAMP
- ADDN'L SOIL/WATER SAMP



□ 47,000
PIT BOTTOM APPROXIMATELY 10 FEET



PIT BOTTOM APPROXIMATELY 12 FEET



BLYMYER & SONS ENGINEERS, INC	
DATE: NONE	PROJECT: PLE WATIONVILLE
DATE: 8-7-86	PROJECT: TOTAL HYDROCARBON CONTAMINATION
NO: 9527	DATE: 8-2

Excavation bottom samples
Sampled on Aug 1986

TPH
Soil 6000

NORTH

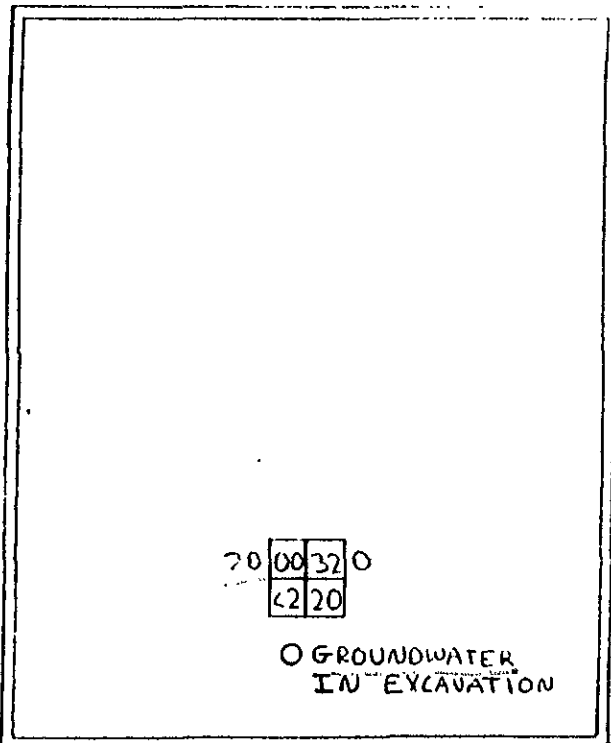
#7

16 26
2 8

TOTAL HYDROCARBON	BENZENE
TOLUENE	XYLENE

ALL FIGURES IN PARTS PER BILLION

4 <2
7 <2



6 00 77 000
56 40 0

OGT-8

<1 <2
<2 5

BLYMYER & SONS ENGINEERS, INC. 1919 CLAYBURY STREET - ALAMEDA, CALIF. 94501	
SCALE: NONE	PIE: NATIONWIDE
DATE: 3/27/86	
	GROUNDWATER CONTAMINATION
NO: 8527	SC-3

HC, B, T, X
Groundwater

Laboratory Analysis of Groundwater Samples of August 4, 1986
Analyzed for Total Hydrocarbons, BTX (results in parts per billion)

#7

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GT-3	*20	E 870 T4.3 X34
GT-4	4	Benzene-<2 Toluene-7 Xylene-<2
GT-5	<i>less than</i> *1	E 42 T+2 <i>mic</i> <i>mic</i> <i>mic</i>
GT-6	<1	Benzene-<2 Toluene-<2 Xylene-5
GT-7	*13	E 480 T90 X330
GT-8	600	Benzene-77,000 Toluene-56 Xylene-400
Sample #1 from main excavation pit	2000	Benzene-320 Toluene-<2 Xylene-20

-results reported August 6, 1986, by Kent Parish, Groundwater Technology (Concord).

UNDER C.I.E. LINE T.O.C B33 T42 X200

no free product as of line rate 8/8/86 - *WJG*

data used for 'closure summary'

Laboratory Analysis of Soil Sampling of August 4, 1986
 Analyzed for Total Hydrocarbons (results in parts per million)

Boring Number (Depth)	Result
GT-1-1(6')	11,000(7,900)
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figures in parentheses indicate levels found after a second analysis done on the same sample