APPENDIX A

LIST OF PESTICIDES COLLECTED

COMPOUNDS COLLECTED DURING
THE LACDAC PICO RIVERA FACILITY
PESTICIDE COLLECTION PROGRAM
8841 EAST SLAUSON AVENUE
PICO RIVERA, CALIFORNIA

2,4-D
2,4,5-T
Acti-dione (Cyclohexamide)
Akton
Aldicarb
Aldrin
Allethrin
Aluminum Phosphide
Aluminum Silico-fluoride
Amitrole
Ammate (Ammonium Sulfamate)
Ammonium Methanearsonate
ANTU
Aramite
Arsenic Trioxide
Atrazine
Avitrol
Azak
Azodrin

Balan
Banrot
Banvel (Dicamba)
Barium Fluosilicate
Baygon
Bayleton
Bendiocarb
Benomyl
Benzene Hexachloride
Betasan (Bensulide)
Bidrin (Dicrotophos)
Bladex (Cyanazine)

Deltamethrin
Devrinol (Napropamide)
Dinitro Phenol
Diazinon
Dibrom (Naled)
Dibromochloropropane
Dichloroethyl Ether
Dichloroethane
Dieldrin
Diethanolamine
Dimethoate
Dimethyl Arsenic Acid (Cocodylic Acid)
Dinoseb
Dioxathion
Diphacinone
Diphenamid
Diquat
Disulfoton (Disyston)
Dithane
Dodine
Dowpon
DSMA
Dyrene

EDB (Ethylene Dibromide)
Endosulfan
Endrin
Eptam
Erbon
Ethion
Ethylene Dichloride

Fenitrothion
Ferbam
Formaldehyde
Fumarin
Furadan (Carbofuran)

Methylcarbamate
Mevinphos
Monoammonium Methanearsonate (MAMA)
Monuron
Morestan
MSMA
MTMC (Methylcarbamate)

Nicotine Sulfate
Nitrofen

Omite (Propargite)
Oxamyl

Paraquat
Parathion
Paris Green (Copper Acetoarsenite)
Parnon
PCNB (Pentachlornitrobenzene)
Pentachlorophenol
Permethrin
Phaltan (Folpet)
Phosphamidon
Phostex
Pipron
Pival (Pivalyn)
Plictran
PMA (Phenylmercury Acetate)
Pramitol
Prolin
Propanil
Pyrethrum

Raticate
Ricetrine
Rotenone
Rozol

Warfarin

Zectran
Zinc Phosphide
Zineb
Ziram

APPENDIX B

TOPOGRAPHIC MAP, LACDAC PICO RIVERA FACILITY
8841 E. SLAUSON AVE., PICO RIVERA, CA

APPENDIX C

BORING AND GROUNDWATER MONITORING WELL CONSTRUCTION LOGS

BORING LOG

SCS ENGINEERS
Environmental Consultants
3711 Long Beach Blvd.
Ninth Floor
Long Beach, CA
90807-3315
(310) 426-9544
FAX (310) 427-0805

PROJECT: LACDAC-PICO RIVERA FACILITY
LOCATION : 8841 E. SLAUSON, PICO RIVERA
JOB NUMBER : 0193171.01
GEOLOGIST / ENGINEER : S. CLEMENTS
DRILLER : H - F DRILLING, ALBERTO
DRILL RIG : MOBILE B - 61
DRILLING METHOD : HOLLOW STEM AUGER

HOLE / WELL # : B H 1 (A)
DIAMETER : 8 "
TOTAL DEPTH : 21 '
DATE STARTED : JUNE 13, 1995
DATE COMPLETED : JUNE 13, 1995
SAMPLING DEVICE : CALIFORNIA SPLIT SPOON
PAGE : 1 OF 1

DEPTH (FEET)	SAMPLE	COMPLETION DETAIL	SAMPLE #	BLOW COUNTS / 6 INCHES	USCS SYMBOL	DESCRIPTION
0						
1						
2			BH1-4-1 (5956)	3/5/7	S P	1 ' - MEDIUM BROWN FINE-MEDIUM SAND, NO STAINING, DRY, NO ODOR
3						
4						
5		HYDRATED BENTONITE CHIPS				
6			BH1-4-5 (5957)	4/4/5	S P	5 ' - LIGHT GRAY MEDIUM-COARSE SAND, NO STAINING, SLIGHTLY MOIST, NO ODOR
7						
8						
9						
10			BH1-4-10 (5958)	4/6/9	S P	10 ' - LIGHT GREEn/MEDIUM BROWN MEDIUM SAND, NO STAINING, SLIGHTLY MOIST, NO ODOR
11						
12						
13						
14						
15			BH1-4-15 (5959)	4/4/5	S P	15 ' - MEDIUM BROWN FINE SAND, NO STAINING, SLIGHTLY MOIST, NO ODOR
16						
17						
18						
19						20 ' - LIGHT GRAY COARSE SAND WITH FINE GRAVEL (~15%), NO STAINING, SLIGHTLY MOIST, NO ODOR
20			BH1-4-20 (5960)	4/5/6	S W	

BORING LOG

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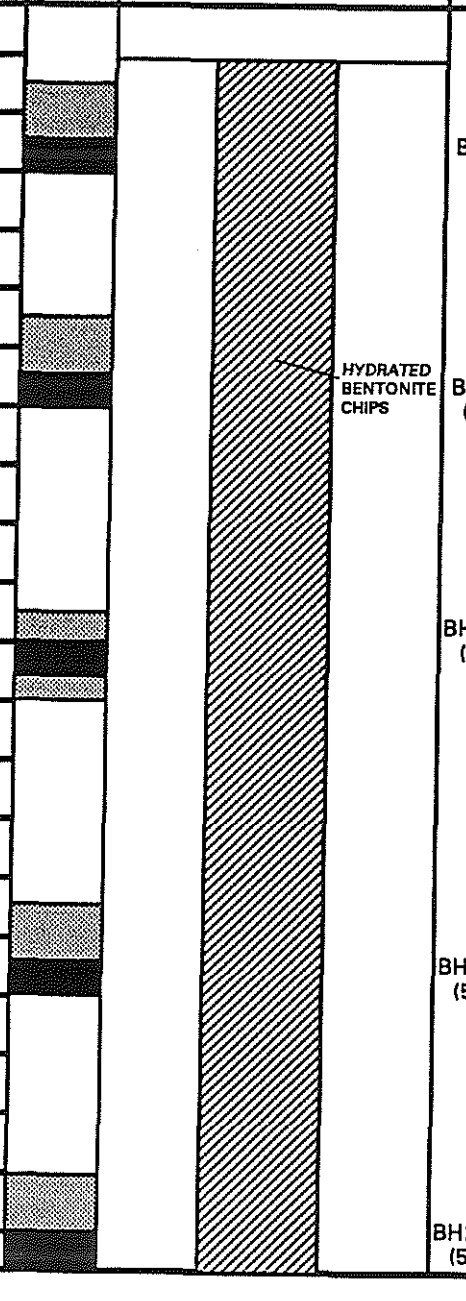
PROJECT: LACDAC-PICO RIVERA FACILITY
LOCATION : 8841 E. SLAUSON, PICO RIVERA
JOB NUMBER : 0193171.01
GEOLOGIST / ENGINEER : S. CLEMENTS
DRILLER : H - F DRILLING, ALBERTO
DRILL RIG : MOBILE B - 61
DRILLING METHOD : HOLLOW STEM AUGER

HOLE / WELL # : B H 2 (A)
DIAMETER : 8 "
TOTAL DEPTH : 21 '
DATE STARTED : JUNE 13, 1995
DATE COMPLETED : JUNE 13, 1995
SAMPLING DEVICE : CALIFORNIA SPLIT SPOON
PAGE : 1 OF 1



DEPTH (FEET)	SAMPLE	COMPLETION DETAIL	SAMPLE #	BLOW COUNTS / 6 INCHES	USCS SYMBOL	DESCRIPTION
0						
1						
2			BH2-4-1 (5951)	3/5/9	S P	1 ' - MEDIUM BROWN FINE-MEDIUM SAND, NO STAINING, DRY, NO ODOR
3						
4						
5						
6			BH2-4-5 (5952)	4/6/9	S P	5 ' - LIGHT GRAY MEDIUM SAND, NO STAINING, SLIGHTLY MOIST, NO ODOR
7						
8						
9						
10			BH2-4-10 (5953)	3/5/6	S P	10 ' - LIGHT GRAY MEDIUM SAND, NO STAINING, SLIGHTLY MOIST, NO ODOR
11						
12						
13						
14						
15			BH2-4-15 (5954)	4/7/9	S P	15 ' - LIGHT GRAY MEDIUM-COARSE SAND, NO STAINING, SLIGHTLY MOIST, NO ODOR
16						
17						
18						
19						
20			BH2-4-20 (5955)	5/5/6	S P	20 ' - LIGHT GRAY MEDIUM-COARSE SAND, NO STAINING, SLIGHTLY MOIST, NO ODOR TD = 21 '

BORING LOG

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PROJECT: LACDAC-PICO RIVERA FACILITY
HOLE / WELL # : B H 3 (A)
LOCATION : 8841 E. SLAUSON, PICO RIVERA
DIAMETER : 8 "
JOB NUMBER : 0193171.01
TOTAL DEPTH : 21 '
GEOLOGIST / ENGINEER : S. CLEMENTS
DATE STARTED : JUNE 13, 1995
DRILLER : H - F DRILLING, ALBERTO
DATE COMPLETED : JUNE 13, 1995
DRILL RIG : MOBILE B - 61
SAMPLING DEVICE : CALIFORNIA SPLIT SPOON
DRILLING METHOD : HOLLOW STEM AUGER
PAGE : 1 OF 1

DEPTH (FEET)	SAMPLE	COMPLETION DETAIL	SAMPLE #	BLOW COUNTS / 6 INCHES	USCS SYMBOL	DESCRIPTION
0						
1						
2			BH3-4-1 (5946)	3/5/7	S P	1 ' - MEDIUM BROWN MEDIUM SAND, NO STAINING, DRY, NO ODOR
3						
4						
5		HYDRATED BENTONITE CHIPS				
6			BH3-4-5 (5947)	3/5/5	S P	5 ' - LIGHT GRAY MEDIUM SAND, NO STAINING, DRY, NO ODOR
7						
8						
9						
10			BH3-4-10 (5948)	5/7/8	S P	10 ' - LIGHT GRAY MEDIUM SAND, NO STAINING, SLIGHTLY MOIST, NO ODOR
11						
12						
13						
14						
15			BH3-4-15 (5949)	7/8/8	S P	15 ' - LIGHT GRAY MEDIUM-COARSE SAND, NO STAINING, SLIGHTLY MOIST, NO ODOR
16						
17						
18						
19						20 ' - LIGHT GRAY MEDIUM-COARSE SAND, NO STAINING, SLIGHTLY MOIST, NO ODOR
20			BH3-4-20 (5950)	5/5/6	S P	TD = 21 '

BORING LOG

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PROJECT: LACDAC-PICO RIVERA FACILITY
HOLE / WELL # : B H 4 (A)
LOCATION : 8841 E. SLAUSON, PICO RIVERA
DIAMETER : 8 "
JOB NUMBER : 0193171.01
TOTAL DEPTH : 41 '
GEOLOGIST / ENGINEER : S. CLEMENTS
DATE STARTED : JUNE 13, 1995
DRILLER : H - F DRILLING, ALBERTO
DATE COMPLETED : JUNE 13, 1995
DRILL RIG : MOBILE B - 61
SAMPLING DEVICE : CALIFORNIA SPLIT SPOON
DRILLING METHOD : HOLLOW STEM AUGER
PAGE : 1 OF 2

DEPTH (FEET)	SAMPLE	COMPLETION DETAIL	SAMPLE #	BLOW COUNTS / 6 INCHES	USCS SYMBOL	DESCRIPTION
0						
1					SP	1 ' - MEDIUM BROWN MEDIUM SAND, NO STAINING, DRY, NO ODOR NO SAMPLE
2						
3						
4						
5		HYDRATED BENTONITE CHIPS		3/5/5	SP	5 ' - LIGHT BROWN COARSE SAND, NO STAINING, SLIGHTLY MOIST, NO ODOR, NO SAMPLE
6						
7						
8						
9						
10			BH4-4-10 (5961)	4/5/6	SP	10 ' - LIGHT BROWN MEDIUM-COARSE SAND, NO STAINING, SLIGHTLY MOIST, NO ODOR
11						
12						
13						
14						
15			BH4-4-15 (5962)	6/9/10	SP	15 ' - LIGHT GRAY MEDIUM-COARSE SAND, NO STAINING, SLIGHTLY MOIST, NO ODOR
16						
17						
18						
19						
20			BH4-4-20 (5963)	8/12/13	SP	20 ' - LIGHT GRAY COARSE SAND, NO STAINING, SLIGHTLY MOIST, NO ODOR

BORING LOG

PROJECT : LACDAC PICO RIVERA FACILITY

JOB NUMBER: 0193171.01

HOLE / WELL # : B H 4 (A)

PAGE : 2 OF 2

DEPTH (FEET)	SAMPLE	COMPLETION DETAIL	SAMPLE #	BLOW COUNTS / 6 INCHES	USCS SYMBOL	DESCRIPTION
21					SP / CL	20.5 ' - MEDIUM BROWN SILTY CLAY, MEDIUM STIFF, NO STAINING, NO ODOR
22						21 ' - MEDIUM BROWN FINE SAND, NO STAINING, SLIGHTLY MOIST, NO ODOR
23						
24						
25		HYDRATED BENTONITE CHIPS	BH4-4-25 (5964)	10/13/16	SP	25 ' - MEDIUM BROWN FINE SAND, NO STAINING, SLIGHTLY MOIST, NO ODOR
26						
27						
28						
29						
30			BH4-4-30 (5965)	8/11/15	SP	30 ' - LIGHT GRAY MEDIUM-COARSE SAND, NO STAINING, SLIGHTLY MOIST, NO ODOR
31						
32						
33						
34						
35			BH4-4-35 (5966)	7/8/11	SP	35 ' - LIGHT GRAY MEDIUM SAND, NO STAINING, SLIGHTLY MOIST, NO ODOR
36						
37						
38						
39						
40			BH4-4-40 (5967)	9/13/16	SP	40 ' - GREEN GRAY FINE SAND, NO STAINING, MOIST, NO ODOR
41						TD = 41 '
42						
43						
44						
45						

BORING LOG

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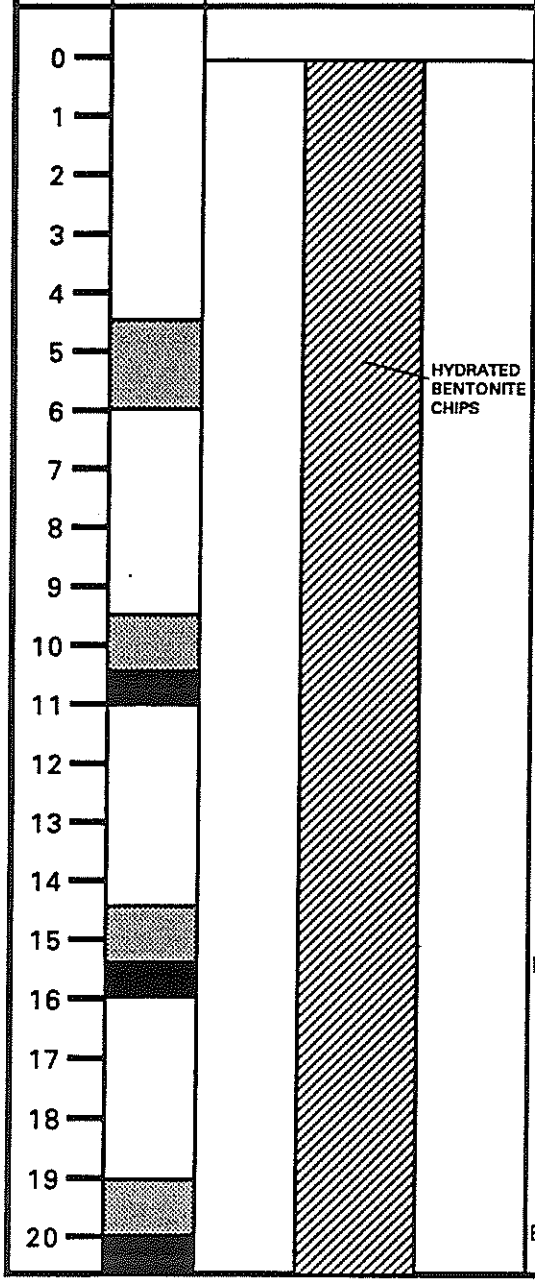
PROJECT: LACDAC-PICO RIVERA FACILITY
LOCATION : 8841 E. SLAUSON, PICO RIVERA
JOB NUMBER : 0193171.01
GEOLOGIST / ENGINEER : S. CLEMENTS
DRILLER : H - F DRILLING, ALBERTO
DRILL RIG : MOBILE B - 61
DRILLING METHOD : HOLLOW STEM AUGER

HOLE / WELL # : B H 5 (A)
DIAMETER : 8 "
TOTAL DEPTH : 41 '
DATE STARTED : JUNE 13, 1995
DATE COMPLETED : JUNE 13, 1995
SAMPLING DEVICE : CALIFORNIA SPLIT SPOON
PAGE : 1 OF 2



DEPTH (FEET)	SAMPLE	COMPLETION DETAIL	SAMPLE #	BLOW COUNTS / 6 INCHES	USCS SYMBOL	DESCRIPTION
0						
1						
2						
3						
4						
5				7/9/12	S P	5 ' - LIGHT GRAY MEDIUM-COARSE SAND, NO STAINING, SLIGHTLY MOIST, NO ODOR
6						
7						
8						
9						
10			BH5-4-10 (5975)	6/8/9	S P	10 ' - LIGHT BROWN-GRAY MEDIUM SAND, NO STAINING, SLIGHTLY MOIST, NO ODOR
11						
12						
13						
14						
15			BH5-4-15 (5976)	7/10/12	S P	15 ' - LIGHT GRAY COARSE SAND, NO STAINING, SLIGHTLY MOIST, NO ODOR
16						
17						
18						
19						
20			BH5-4-20 (5977)	8/10/12	C L	20 ' - MEDIUM BROWN SILTY CLAY, MEDIUM STIFF, NO STAINING, NO ODOR

BORING LOG

PROJECT : LACDAC PICO RIVERA FACILITY

HOLE / WELL # : B H 5 (A)

JOB NUMBER: 0193171.01

PAGE : 2 OF 2

DEPTH (FEET)	SAMPLE	COMPLETION DETAIL	SAMPLE #	BLOW COUNTS / 6 INCHES	USCS SYMBOL	DESCRIPTION
21					C L	20.5 ' - MEDIUM BROWN CLAY, MEDIUM STIFF, NO STAINING, NO ODOR
22					S M	21 ' - MEDIUM BROWN SILTY SAND, NO STAINING, SLIGHTLY MOIST, NO ODOR
23						
24						
25		HYDRATED BENTONITE CHIPS	BH5-4-25 (5978)	7/10/12	S M	25 ' - MEDIUM BROWN SILTY SAND, NO STAINING, SLIGHTLY MOIST, NO ODOR
26						
27						
28						
29						
30			BH5-4-30 (5979)	8/9/9	S P	30 ' - MEDIUM BROWN MEDIUM SAND, NO STAINING, SLIGHTLY MOIST, NO ODOR
31						
32						
33						
34						
35			BH5-4-35 (5980)	11/14/17	S P	35 ' - LIGHT GRAY MEDIUM-COARSE SAND, NO STAINING, SLIGHTLY MOIST, NO ODOR
36						
37						
38						
39						
40			BH5-4-40 (5981)	8/8/10	S P	40 ' - FRAY GREEN MEDIUM SAND, NO STAINING, MOIST, NO ODOR
41						TD = 41 '
42						
43						
44						
45						

BORING LOG

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LOCATION : 8841 E. SLAUSON, PICO RIVERA
JOB NUMBER : 0193171.01
GEOLOGIST / ENGINEER : S. CLEMENTS
DRILLER : H - F DRILLING, ALBERTO
DRILL RIG : MOBILE B - 61
DRILLING METHOD : HOLLOW STEM AUGER

HOLE / WELL # : B H 6 (A)
DIAMETER : 8 "
TOTAL DEPTH : 41 '
DATE STARTED : JUNE 13, 1995
DATE COMPLETED : JUNE 13, 1995
SAMPLING DEVICE : CALIFORNIA SPLIT SPOON
PAGE : 1 OF 2

DEPTH (FEET)	SAMPLE	COMPLETION DETAIL	SAMPLE #	BLOW COUNTS / 6 INCHES	USCS SYMBOL	DESCRIPTION
0						
1						
2						
3						
4						
5		HYDRATED BENTONITE CHIPS		3/5/7	S P	5 ' - LIGHT GRAY MEDIUM-COARSE SAND, NO STAINING, SLIGHTLY MOIST, NO ODOR NO SAMPLE
6						
7						
8						
9						
10			BH6-4-10 (5968)	4/6/7	S P	10 ' - LIGHT GRAY COARSE SAND, NO STAINING, SLIGHTLY MOIST, NO ODOR
11						
12						
13						
14						
15			BH6-4-15 (5969)	7/9/11	S P	15 ' - LIGHT GRAY COARSE SAND, NO STAINING, SLIGHTLY MOIST, NO ODOR
16						
17						
18						
19						
20			BH6-4-20 (5970)	6/6/7	S P	20 ' - LIGHT GRAY-BROWN COARSE SAND, NO STAINING, SLIGHTLY MOIST, NO ODOR

BORING LOG

PROJECT : LACDAC PICO RIVERA FACILITY

JOB NUMBER: 0193171.01

HOLE / WELL # : B H 6 (A)

PAGE : 2 OF 2

DEPTH (FEET)	SAMPLE	COMPLETION DETAIL	SAMPLE #	BLOW COUNTS / 6 INCHES	USCS SYMBOL	DESCRIPTION
21						
22						
23						
24						
25		HYDRATED BENTONITE CHIPS	BH6-4-25 (5971)	9/12/14	S P	25 ' - LIGHT GRAY-BROWN COARSE SAND, NO STAINING, NO ODOR
26						
27						
28						
29						
30			BH6-4-30 (5972)	11/15/17	S P	30 ' - LIGHT GRAY MEDIUM SAND, NO STAINING, SLIGHTLY MOIST, NO ODOR
31						
32						
33						
34						
35			BH6-4-35 (5973)	12/15/16	S P	35 ' - GRAY-GREEN MEDIUM SAND, NO STAINING, SLIGHTLY MOIST, NO ODOR
36						
37						
38						
39						
40			BH6-4-40 (5974)	7/11/12	S P	40 ' - GRAY GREEN FINE SAND, NO STAINING, MOIST, NO ODOR
41						TD = 41 '
42						
43						
44						
45						

BORING LOG

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LOCATION : 8841 E. SLAUSON, PICO RIVERA
JOB NUMBER : 0193171.01
GEOLOGIST / ENGINEER : S. CLEMENTS
DRILLER : H - F DRILLING, JEFF
DRILL RIG : MOBILE B - 61
DRILLING METHOD : HOLLOW STEM AUGER

HOLE / WELL # : B H 1 (B)
DIAMETER : 8 "
TOTAL DEPTH : 20.5
DATE STARTED : DECEMBER 19, 1995
DATE COMPLETED : DECEMBER 19, 1995
SAMPLING DEVICE : CALIFORNIA SPLIT SPOON
PAGE : 1 OF 1

DEPTH (FEET)	SAMPLE	COMPLETION DETAIL	SAMPLE #	BLOW COUNTS / 6 INCHES	USCS SYMBOL	DESCRIPTION
0						
1			BH1-4-1 (5255)	16/17/28	S M	1 ' - DARK BROWN SILTY FINE SAND, NO STAINING, SLIGHTLY MOIST, NO ODOR WITH ~ 20 % WOOD AND ROOT FRAGMENTS, PARTIAL RECOVERY
2						
3						
4						
5		HYDRATED BENTONITE CHIPS	BH1-4-5 (5256)	15/26/27	S P	5 ' - LIGHT GRAY MEDIUM-COARSE SAND, NO STAINING, SLIGHTLY MOIST, NO ODOR
6						
7						
8						
9						
10			BH1-4-10 (5257)	16/20/32	S P	10 ' - LIGHT GREEn/MEDIUM BROWN MEDIUM SAND, NO STAINING, SLIGHTLY MOIST, NO ODOR
11						
12						
13						
14						
15			BH1-4-15 (5258)	21/35/39	S P	15 ' - MEDIUM BROWN FINE SAND, NO STAINING, SLIGHTLY MOIST, NO ODOR
16						
17						20 ' - LIGHT GRAY COARSE SAND WITH FINE GRAVEL (~15%), NO STAINING, SLIGHTLY MOIST, NO ODOR
18						
19						
20			BH1-4-20 (5259)	25/37/36	S W	20.5 ' - MEDIUM BROWN CLAYEY SILT, NO STAINING, MOIST, NO ODOR

BORING LOG

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PROJECT: LACDAC-PICO RIVERA FACILITY
LOCATION : 8841 E. SLAUSON, PICO RIVERA
JOB NUMBER : 0193171.01
GEOLOGIST / ENGINEER : S. CLEMENTS
DRILLER : H - F DRILLING, JEFF
DRILL RIG : MOBILE B - 61
DRILLING METHOD : HOLLOW STEM AUGER

HOLE / WELL # : B H 2 (B)
DIAMETER : 8 "
TOTAL DEPTH : 21 '
DATE STARTED : DECEMBER 19, 1995
DATE COMPLETED : DECEMBER 19, 1995
SAMPLING DEVICE : CALIFORNIA SPLIT SPOON
PAGE : 1 OF 1

DEPTH (FEET)	SAMPLE	COMPLETION DETAIL	SAMPLE #	BLOW COUNTS / 6 INCHES	USCS SYMBOL	DESCRIPTION
0						
1			BH2-4-1 (5250)	15/19/22	S M	1 ' - MEDIUM BROWN SILTY FINE-MEDIUM SAND, NO STAINING, DRY, NO ODOR
2						
3						
4						
5		HYDRATED BENTONITE CHIPS	BH2-4-5 (5251)	20/20/28	S P	5 ' - LIGHT GRAY MEDIUM SAND, NO STAINING, SLIGHTLY MOIST, NO ODOR
6						
7						
8						
9						
10			BH2-4-10 (5252)	23/23/31	S P	10 ' - LIGHT GRAY MEDIUM SAND, NO STAINING, SLIGHTLY MOIST, NO ODOR
11						
12						
13						
14						
15			BH2-4-15 (5253)	14/20/31	S P	15 ' - LIGHT GRAY MEDIUM-COARSE SAND, NO STAINING, SLIGHTLY MOIST, NO ODOR
16						
17						
18						20 ' - LIGHT GRAY MEDIUM-COARSE SAND, NO STAINING, SLIGHTLY MOIST, NO ODOR
19						
20			BH2-4-20 (5254)	19/35/44	S P M L	20.5 ' - MEDIUM BROWN CLAYEY SILT, SLIGHTLY MOIST, NO ODOR TD = 21 '

BORING LOG

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LOCATION : 8841 E. SLAUSON, PICO RIVERA
JOB NUMBER : 0193171.01
GEOLOGIST / ENGINEER : S. CLEMENTS
DRILLER : H - F DRILLING, JEFF
DRILL RIG : MOBILE B - 61
DRILLING METHOD : HOLLOW STEM AUGER

HOLE / WELL # : B H 3 (B)
DIAMETER : 8 "
TOTAL DEPTH : 21 '
DATE STARTED : DECEMBER 19, 1995
DATE COMPLETED : DECEMBER 19, 1995
SAMPLING DEVICE : CALIFORNIA SPLIT SPOON
PAGE : 1 OF 1

DEPTH (FEET)	SAMPLE	COMPLETION DETAIL	SAMPLE #	BLOW COUNTS / 6 INCHES	USCS SYMBOL	DESCRIPTION
0						
1			BH3-4-1 (5245)	10/10/14	S P	1 ' - MEDIUM BROWN FINE-MEDIUM SAND, NO STAINING, DRY, NO ODOR
2						
3						
4						
5		HYDRATED BENTONITE CHIPS	BH3-4-5 (5246)	14/26/34	S P	5 ' - LIGHT GRAY MEDIUM SAND, NO STAINING, DRY, NO ODOR
6						
7						
8						
9						
10			BH3-4-10 (5247)	9/11/13	S P	10 ' - LIGHT GRAY MEDIUM SAND, NO STAINING, SLIGHTLY MOIST, NO ODOR
11						
12						
13						
14						
15			BH3-4-15 (5248)	17/20/27	S P	15 ' - LIGHT GRAY MEDIUM-COARSE SAND, NO STAINING, SLIGHTLY MOIST, NO ODOR
16						
17						
18						
19						
20			BH3-4-20 (5249)	18/31/54	S P	20 ' - LIGHT GRAY MEDIUM-COARSE SAND, NO STAINING, SLIGHTLY MOIST, NO ODOR TD = 21 '

BORING LOG

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FAX (310) 427-0805

PROJECT: LACDAC-PICO RIVERA FACILITY
LOCATION : 8841 E. SLAUSON, PICO RIVERA
JOB NUMBER : 0193171.01
GEOLOGIST / ENGINEER : S. CLEMENTS
DRILLER : H - F DRILLING, JEFF
DRILL RIG : MOBILE B - 61
DRILLING METHOD : HOLLOW STEM AUGER

HOLE / WELL # : B H 4 (B)
DIAMETER : 8 "
TOTAL DEPTH : 41.5 '
DATE STARTED : DECEMBER 19, 1995
DATE COMPLETED : DECEMBER 19, 1995
SAMPLING DEVICE : CALIFORNIA SPLIT SPOON
PAGE : 1 OF 2

DEPTH (FEET)	SAMPLE	COMPLETION DETAIL	SAMPLE #	BLOW COUNTS / 6 INCHES	USCS SYMBOL	DESCRIPTION
0						
1						
2						
3						
4						
5		HYDRATED BENTONITE CHIPS				
6						
7						
8						
9						
10			BH4-4-10 (5260)	9/18/27	S P	10 ' - LIGHT BROWN MEDIUM-COARSE SAND, NO STAINING, SLIGHTLY MOIST, NO ODOR
11						
12						
13						
14						
15			BH4-4-15 (5261)	21/27/34	S P	15 ' - LIGHT GRAY MEDIUM-COARSE SAND WITH 10 % FINE GRAVEL, NO STAINING, SLIGHTLY MOIST, NO ODOR
16						
17						
18						
19						
20			BH4-4-20 (5262)	21/33/44	S P	20 ' - LIGHT GRAY COARSE SAND, NO STAINING, SLIGHTLY MOIST, NO ODOR

BORING LOG

PROJECT : LACDAC PICO RIVERA FACILITY

HOLE / WELL # : B H 4 (B)

JOB NUMBER: 0193171.01

PAGE : 2 OF 2

DEPTH (FEET)	SAMPLE	COMPLETION DETAIL	SAMPLE #	BLOW COUNTS / 6 INCHES	USCS SYMBOL	DESCRIPTION
21					S P C L	20.5 ' - MEDIUM BROWN SILTY CLAY, MEDIUM STIFF, NO STAINING, NO ODOR
22						21 ' - MEDIUM BROWN FINE SAND, NO STAINING, SLIGHTLY MOIST, NO ODOR
23						
24						
25		HYDRATED BENTONITE CHIPS	BH4-4-25 (5263)	24/30/36	S P	25 ' - MEDIUM BROWN FINE SAND, NO STAINING, SLIGHTLY MOIST, NO ODOR
26						
27						
28						
29						
30			BH4-4-30 (5264)	17/18/22	S P	30 ' - LIGHT GRAY MEDIUM-COARSE SAND, NO STAINING, SLIGHTLY MOIST, NO ODOR
31					C L	30.5 ' - MEDIUM BROWN SILTY CLAY, NO STAINING, MEDIUM STIFF, NO ODOR
32						
33						
34						
35			BH4-4-35 (5265)	40/41/50	S P	35 ' - LIGHT GRAY MEDIUM SAND, NO STAINING, SLIGHTLY MOIST, NO ODOR
36						
37						
38						
39						
40			BH4-4-40 (5266)	30/42/48	S P	40 ' - GREEN GRAY FINE SAND, NO STAINING, MOIST, NO ODOR
41						TD = 41.5 '
42						
43						
44						
45						

BORING LOG

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PROJECT: LACDAC-PICO RIVERA FACILITY
LOCATION : 8841 E. SLAUSON, PICO RIVERA
JOB NUMBER : 0193171.01
GEOLOGIST / ENGINEER : S. CLEMENTS
DRILLER : H - F DRILLING, JEFF
DRILL RIG : MOBILE B - 61
DRILLING METHOD : HOLLOW STEM AUGER

HOLE / WELL # : B H 5 (B)
DIAMETER : 8 "
TOTAL DEPTH : 40 '
DATE STARTED : DECEMBER 19, 1995
DATE COMPLETED : DECEMBER 19, 1995
SAMPLING DEVICE : CALIFORNIA SPLIT SPOON
PAGE : 1 OF 2

DEPTH (FEET)	SAMPLE	COMPLETION DETAIL	SAMPLE #	BLOW COUNTS / 6 INCHES	USCS SYMBOL	DESCRIPTION
0						
1						
2						
3						
4						
5		HYDRATED BENTONITE CHIPS		N A	S P	5 ' - MEDIUM BROWN MEDIUM-COARSE SAND, NO STAINING, SLIGHTLY MOIST, NO ODOR
6						
7						
8						
9						
10			BH5-4-10 (5288)	N A	S P	10 ' - MEDIUM BROWN MEDIUM-COARSE SAND, NO STAINING, SLIGHTLY MOIST, NO ODOR
11						
12						
13						
14						
15			BH5-4-15 (5289)	N A	S P	15 ' - MEDIUM GRAY MEDIUM-COARSE SAND, NO STAINING, SLIGHTLY MOIST, NO ODOR
16					G P	16 ' - ~4" THICK LAYER OF FINE GRAVEL
17					SDP	16.5 ' - MEDIUM-COARSE SAND
18						
19						19 ' - ~ 2" THICK LAYER OF SILTY CLAY
20			BH5-4-20 (5290)	N A	C L / S P	20 ' - MEDIUM GRAY MEDIUM-COARSE SAND, SLIGHTLY MOIST

BORING LOG

PROJECT : LACDAC PICO RIVERA FACILITY

HOLE / WELL # : B H 5 (B)

JOB NUMBER: 0193171.01

PAGE : 2 OF 2

DEPTH (FEET)	SAMPLE	COMPLETION DETAIL	SAMPLE #	BLOW COUNTS / 6 INCHES	USCS SYMBOL	DESCRIPTION
21					SP	21.5 ' - MEDIUM BROWN CLAY, NO STAINING, SLIGHTLY MOIST, NO ODOR
22			BH5-4-20 (5290)	N A	CL	23 ' - MEDIUM BROWN SILTY CLAY, NO STAINING, SLIGHTLY MOIST, NO ODOR; GRADES TO COARSER SAND TO 25 '
23			BH5-4-22 (5284)	N A		
24						
25		HYDRATED BENTONITE CHIPS	BH5-4-25 (5291)	N A	SP	25 ' - MEDIUM BROWN FINE SAND, NO STAINING, SLIGHTLY MOIST, NO ODOR
26					CL	26 ' - MEDIUM BROWN SILTY CLAY WITH SANDY LENSES, NO STAINING, MEDIUM SOFT, SLIGHTLY MOIST, NO ODOR
27						
28						
29						
30			BH5-4-30 (5992)	N A	SP	30 ' - MEDIUM BROWN MEDIUM SAND, NO STAINING, SLIGHTLY MOIST, NO ODOR
31						
32					CL	32 - 33 ' - ALTERNATING 3 "-THICK SILTY CLAY AND MEDIUM SAND LAYERS
					SP	
33					CL	
34						
35			BH5-4-35 (5293)	N A	SP	35 ' - LIGHT GRAY MEDIUM-COARSE SAND, NO STAINING, SLIGHTLY MOIST, NO ODOR
36						
37						
38						
39						
40			BH5-4-40 (5294)	N A	SP	40 ' - GRAY GREEN FINE SAND, NO STAINING, MOIST, NO ODOR
41						TD = 40 '
42						
43						
44						
45						

BORING LOG

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PROJECT: LACDAC-PICO RIVERA FACILITY
LOCATION : 8841 E. SLAUSON, PICO RIVERA
JOB NUMBER : 0193171.01
GEOLOGIST / ENGINEER : S. CLEMENTS
DRILLER : H - F DRILLING, JEFF
DRILL RIG : MOBILE B - 61
DRILLING METHOD : HOLLOW STEM AUGER

HOLE / WELL # : B H 6 (B)
DIAMETER : 8 "
TOTAL DEPTH : 41 '
DATE STARTED : DECEMBER 19, 1995
DATE COMPLETED : DECEMBER 19, 1995
SAMPLING DEVICE : CALIFORNIA SPLIT SPOON
PAGE : 1 OF 2

DEPTH (FEET)	SAMPLE	COMPLETION DETAIL	SAMPLE #	BLOW COUNTS / 6 INCHES	USCS SYMBOL	DESCRIPTION
0						
1						
2						
3						
4						
5		HYDRATED BENTONITE CHIPS				
6						
7						
8						
9						
10			BH6-4-10 (5267)	12/21/25	S P	10 ' - LIGHT GRAY COARSE SAND, NO STAINING, SLIGHTLY MOIST, NO ODOR
11						
12						
13						
14						
15			BH6-4-15 (5268)	23/30/41	S P	15 ' - LIGHT GRAY COARSE SAND, NO STAINING, SLIGHTLY MOIST, NO ODOR
16						
17						
18						
19						
20			BH6-4-20 (5269)	21/33/36	S P	20 ' - LIGHT GRAY-BROWN COARSE SAND, NO STAINING, SLIGHTLY MOIST, NO ODOR

BORING LOG

PROJECT : LACDAC PICO RIVERA FACILITY

HOLE / WELL # : B H 6 (B)

JOB NUMBER: 0193171.01

PAGE : 2 OF 2

DEPTH (FEET)	SAMPLE	COMPLETION DETAIL	SAMPLE #	BLOW COUNTS / 6 INCHES	USCS SYMBOL	DESCRIPTION
21						
22						
23						
24						
25		HYDRATED BENTONITE CHIPS	BH6-4-25 (5270)	12/19/26	C L	25 ' - MEDIUM BROWN SILT, CLAY, MEDIUM STIFF, SLIGHTLY MOIST, NO ODOR
26						
27						
28						
29						
30			BH6-4-30 (5271)	12/35/37	S P	30 ' - LIGHT GRAY MEDIUM SAND, NO STAINING, SLIGHTLY MOIST, NO ODOR
31						
32						
33						
34						
35			BH6-4-35 (5272)	26/27/30	S P	35 ' - GRAY-GREEN MEDIUM SAND, NO STAINING, SLIGHTLY MOIST, NO ODOR
36						
37						
38						
39						
40			BH6-4-40 (5273)	30/44/55	S P	40 ' - GRAY GREEN FINE SAND, NO STAINING, MOIST, NO ODOR
41						TD = 41.5 '
42						
43						
44						
45						

BORING LOG

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PROJECT: LACDAC

LOCATION : 8841 E. SLAUSON, PICO RIVERA, CA

JOB NUMBER : 0193171.01

GEOLOGIST / ENGINEER : S. CLEMENTS

DRILLER : LAYNE, TERRY

DRILL RIG : CME 750 ALL-TERRAIN

DRILLING METHOD : HOLLOW STEM AUGER

HOLE / WELL # : B H 7

DIAMETER : 8 "

TOTAL DEPTH : 31.5 '

DATE STARTED : JANUARY 29, 1997

DATE COMPLETED : JANUARY 29, 1997

SAMPLING DEVICE : 2 1/2" X 18" I.D. SPLIT SPOON

PAGE : 1 OF 2

DEPTH (FEET)	SAMPLE	COMPLETION DETAIL	SAMPLE #	BLOW COUNTS / 6 INCHES	USCS SYMBOL	DESCRIPTION
0						SURFACE - UNPAVED
1						
2						
3						
4						
5		HYDRATED MEDIUM BENTONITE CHIPS				5 ' - 1 SACK SAND/CEMENT SLURRY
6						
7						
8						
9						
10						10 ' - 1 SACK SAND/CEMENT SLURRY
11						
12						
13						
14						
15						15 ' - 1 SACK SAND/CEMENT SLURRY
16						
17						
18						
19						
20						20 ' - 1 SACK SAND/CEMENT SLURRY

BORING LOG

PROJECT : LACDAC

JOB NUMBER: 0193171.01

HOLE / WELL # : B H 7

PAGE : 2 OF 2

DEPTH (FEET)	SAMPLE	COMPLETION DETAIL	SAMPLE #	BLOW COUNTS / 6 INCHES	USCS SYMBOL	DESCRIPTION
21						
22						
23						
24						
25			BH7-5-25 (7596)	16/20/22	S P	20 ' - MEDIUM BROWN - LIGHT GRAY COARSE SAND , NO STAINING, SLIGHTLY MOIST, NO ODOR
26			BH7-5-25 (7358)			
27		HYDRATED MEDIUM BENTONITE CHIPS				
28						
29						
30			BH7-5-30 (7597)	20/24/18	S P	30 ' - MEDIUM BROWN TO LIGHT GRAY MEDIUM SAND, NO STAINING, SLIGHTL6Y MOIST, NO ODOR
31			BH7-5-3- (7359)			TD = 31.5 '
32						
33						
34						
35						
36						
37						
38						
39						
40						
41						
42						
43						
44						
45						

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BORING LOG

3711 Long Beach Boulevard, 9th Flr.
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BORING NUMBER: BH8

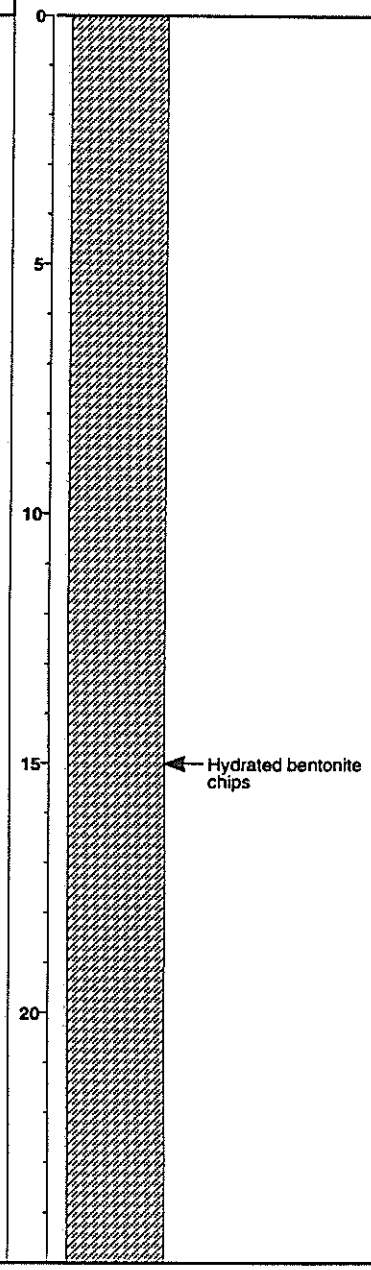
LACDAC
8841 E. Slauson Ave.
Pico Rivera, CA

JOB NUMBER: 0193171.01

REMARKS:

Depth (meters)	Depth (feet)	Sample Location	Sample Number	Blow Counts	OVM (ppm)	USCS Soil Class.	Graphic Log	Description
0	0							Surface = Unpaved
1								Brown sandy silt with roots
2	5	X	BH8-6-5	4 5 7	NA	SP		5 ' - Medium brown medium coarse sand, no staining, slightly moist, no odor
3	10	X	BH8-6-10	2 2 2	NA	SP		10 ' - Medium brown medium sand, no staining, no odor
4	15	X	BH8-6-15	1 1 2	NA	SP		15 ' - Light brown moderate to coarse sand, no staining, slightly moist, no odor
5	20	X	BH8-6-20	5 11 11	NA	SP ML SP		20 ' - Light brown medium sand, no staining, slightly moist, no odor; silty at 20.5'
6								
7								
	25							

Completion Detail



Drilling Company: **Layne Cristensen**
Drilling Method: **Hollow Stem Auger**
Logged By: **S. Clements**
Sampling Method: **Split spoon**

Date Started: **5/20/99**
Date Ended: **5/20/99**
Boring Diameter: **8 in.**

Depth to Water: **48.0 ft**
Total Depth: **49.5 ft**

STANDARD_LOG 193171.GPJ STD_LOG.GDT 8/23/99

Y 48

SCS ENGINEERS — BORING LOG

3711 Long Beach Boulevard, 9th Flr.
Long Beach, California 90807-3315

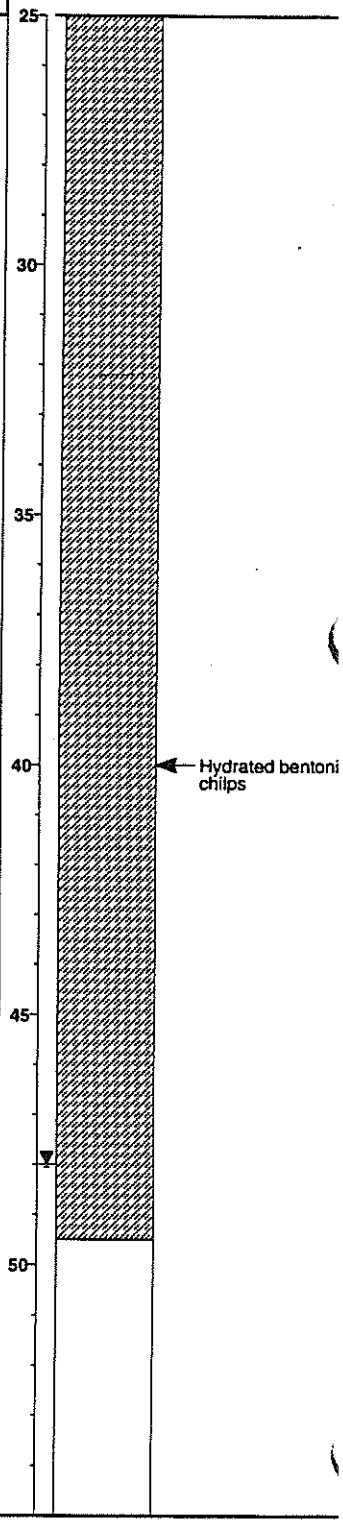
BORING NUMBER: BH8

LACDAC

JOB NUMBER: 0193171.01

Depth (feet)	Sample Location	Sample Number	Blow Counts	OVM (ppm)	USCS Soil Class.	Description
25		BH8-6-25	6 8 9	NA	SP	25 ' - Medium brown fine sand
					CL	26.5 ' - Medium brown silty clay, soft, no staining, no odor
30		BH8-6-30	4 9 11	NA	SM	30 ' - Medium brown clayey silt - fine sand, no staining, no odor
					SP	30.5 - 31 ' - Brown to gray fine sand, poorly graded, no staining, slightly moist, no odor
35		BH8-6-35	5 7 10	NA	SP	
					CL	35 ' - Gray to brown fine sand, no staining, slightly moist, no odor 35.5 - Medium brown silty clay
40		BH8-6-40	9 15 20	NA	SP	40 ' - Medium gray medium sand, no staining, slightly moist, no odor
45		BH8-6-45	7 20 22	NA	SP	45 ' - Gray medium to coarse sand
		BH8-6-47				46.5 - Gray coarse sand with 10% fine gravel, slightly moist, no odor
		BH8-6-48	20 33 47	NA	SP	47 ' - Gray coarse sand, no staining, slightly moist - dry, no odor 48 ' - Gray coarse sand, no staining, wet, no odor
50						Total depth = 49.5 ft
55						

Graphic Log



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BORING LOG

3711 Long Beach Boulevard, 9th Flr.
Long Beach, California 90807-3315

BORING NUMBER: BH9

LACDAC
8841 E. Slauson Ave.
Pico Rivera, CA

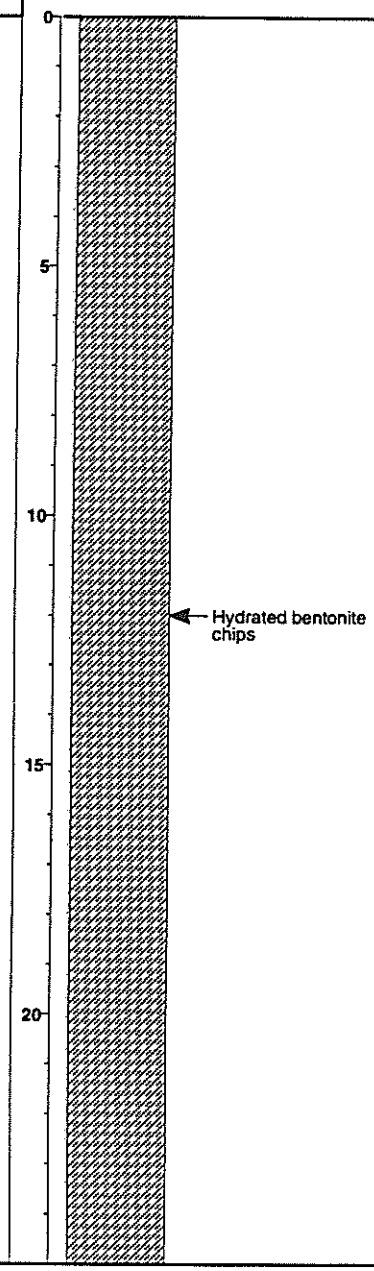
JOB NUMBER: 0193171.01

REMARKS:

Depth (meters)	Depth (feet)	Sample Location	Sample Number	Blow Counts	OVM (ppm)	USCS Soil Class.	Description
							Surface = Unpaved
	5		BH9-6-5	2 3 5	NA	ML SP	5 ' - Medium brown sandy silt with roots 5.5' - Medium gray-brown medium sand, no staining, no odor
	10		B9-6-10	3 3 4	NA	SP	10 ' - Medium brown fine sand with silt and minor gravel, no staining, no odor
	15		BH9-6-15	10 11 11	NA	SM	15 ' - Medium brown silty sand with clay nodules (~15%), no staining, slightly moist, no odor
	20		BH9-6-20	5 10 11	NA	SP	20 ' - Medium brown medium sand with gravel (~10%), no staining, slightly moist, no odor
							25 ' - Medium brown clayey silt

Graphic Log

Completion Detail



Drilling Company: **Layne Cristensen**
Drilling Method: **Hollow Stem Auger**
Logged By: **S. Clements**
Sampling Method: **Split spoon**

Date Started: **5/20/99**
Date Ended: **5/20/99**
Boring Diameter: **8 in.**

Depth to Water: **48.0 ft**
Total Depth: **48.5 ft**

SCS ENGINEERS — BORING LOG

3711 Long Beach Boulevard, 9th Flr.
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BORING NUMBER: BH11

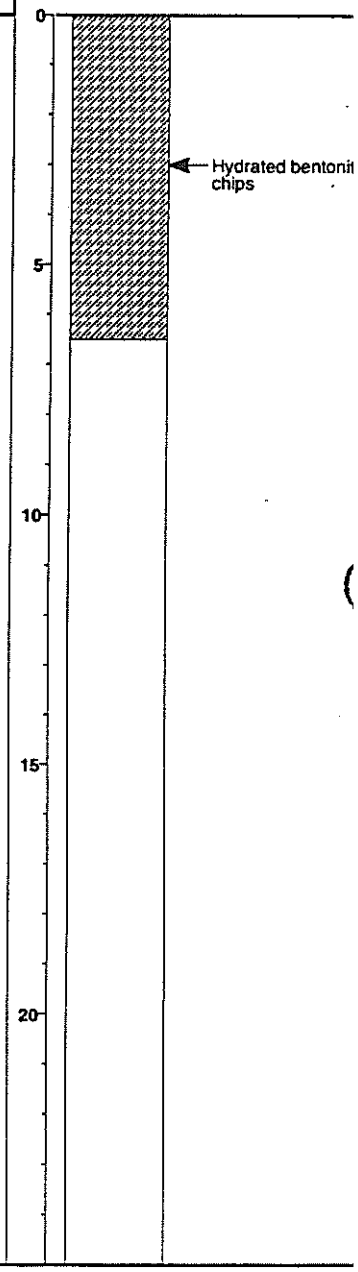
LACDAC
8841 E. Slauson Ave.
Pico Rivera, CA

JOB NUMBER: 0193171.01

REMARKS:

Depth (meters)	Depth (feet)	Sample Location	Sample Number	Blow Counts	OVM (ppm)	USCS Soil Class.	Graphic Log	Description
								Surface = unpaved
	5		BH11-6-5	2 4 4	NA	SM		5 ' - Medium brown silty fine sand with roots, no staining, dry, no odor
								Total depth = 6.5 ft

Completion Detail



Drilling Company: **Layne Cristensen**
Drilling Method: **Hollow Stem Auger**
Logged By: **S. Clements**
Sampling Method: **Split spoon**

Date Started: **5/20/99**
Date Ended: **5/20/99**
Total Depth: **6.5 ft**
Boring Diameter: **8 in.**

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BORING LOG

3711 Long Beach Boulevard, 9th Flr.
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BORING NUMBER: BH12

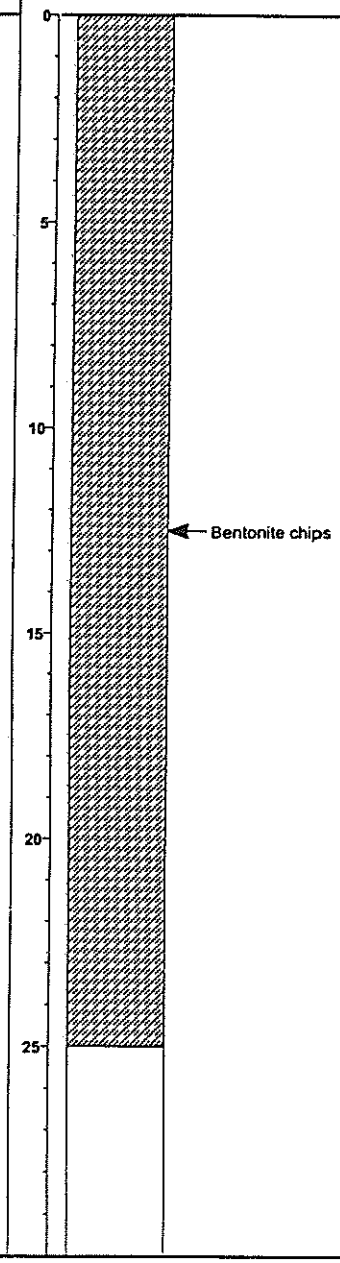
LACDAC
8841 E. Slauson Ave.
Pico Rivera, CA

JOB NUMBER: 0193171.01

REMARKS:

Depth (meters)	Depth (feet)	Sample Location	Sample Number	Blow Counts	OVM (ppm)	USCS Soil Class.	Description
	5		BH12-5'			SM	Brown silty fine sand, dry, no odor
	10		BH12-10'			SW	Tan well graded sand, dry, no odor
	15		BH12-15'			SW	Tan well graded sand with a few lenses of clayey silt, dry, no odor
	20		BH12-20'			SW	Tan well graded sand with a few lenses of clayey silt
	25		BH12-25'			SM	Light brown medium silty sand

Completion Detail



Drilling Company:	Layne Cristensen	Date Started: 2/13/01	Time Started: 11:40
Drilling Method:	Hollow Stem Auger	Date Ended: 2/13/01	Time Ended: 12:10
Logged By:	C. Farrell	Boring Diameter: 6 in.	Total Depth: 25.0 ft
Sampling Method:	Split spoon		

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BORING LOG

3711 Long Beach Boulevard, 9th Flr.
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BORING NUMBER: BH13

LACDAC
8841 E. Slauson Ave.
Pico Rivera, CA

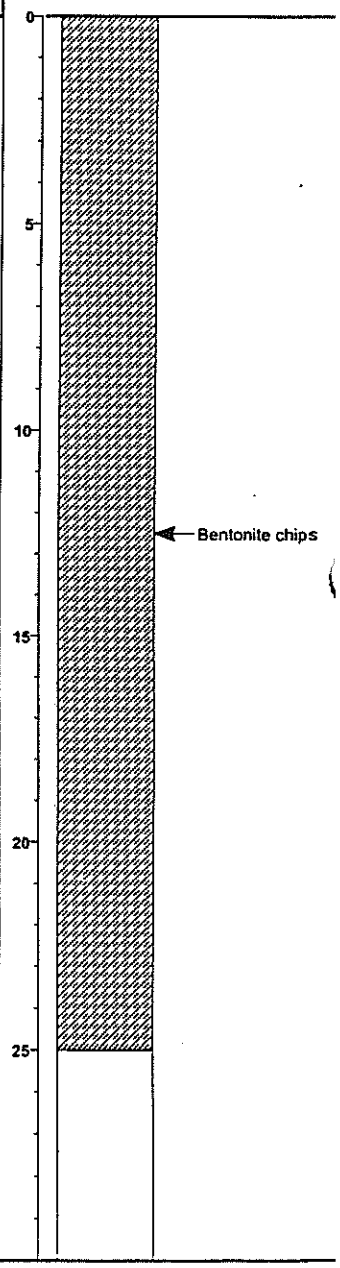
JOB NUMBER: 0193171.01

REMARKS:

Depth (meters)	Depth (feet)	Sample Location	Sample Number	Blow Counts	OVM (ppm)	USCS Soil Class.	Description
0	0					ML	Brown clayey silt, slightly moist, no odor
1						SM	Brown silty fine sand, dry, no odor
	5		BH13-5'			SW	Tan well graded sand, dry, no odor
2							Thin lense of tan silty fine sand at 7'
3	10		BH13-10'			SW	Well graded tan sand
4						SP	Tan silty medium to fine sand Thin lense of brown clay @ 12.5'
	15		BH13-15'			SW	Tan well graded sand with lenses of medium to fine sand with an appreciable amount of fines, dry, no odor
5							Well graded tan sand, dry, no odor
6	20		BH13-20'			ML	Brown sandy clayey silt, stiff, slightly moist, no odor, with lenses of medium sand
7							
	25		BH13-25'				
8							
9	30						

Graphic Log

Completion Detail



Drilling Company:	Layne Cristensen	Date Started:	2/13/01	Time Started:	09:50
Drilling Method:	Hollow Stem Auger	Date Ended:	2/13/01	Time Ended:	11:35
Logged By:	C. Farrell	Boring Diameter:	6 in.	Total Depth:	25.0 ft
Sampling Method:	Split spoon				

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BORING LOG

3711 Long Beach Boulevard, 9th Flr.
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BORING NUMBER: BH14

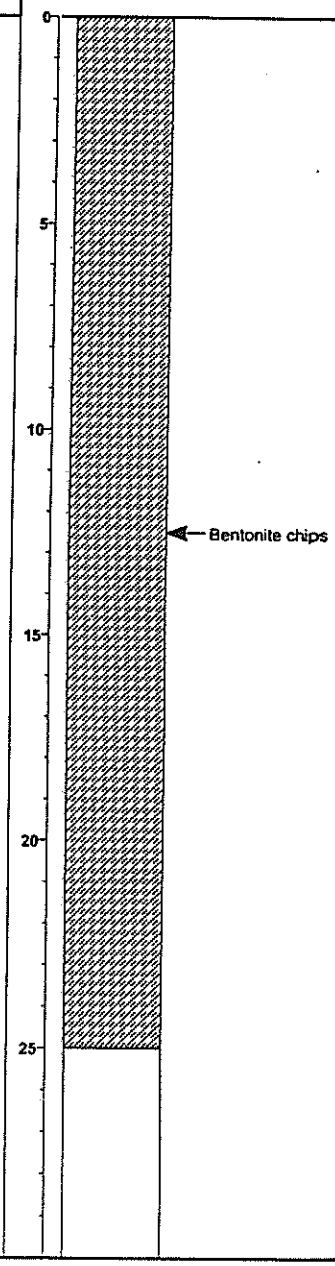
LACDAC
8841 E. Slauson Ave.
Pico Rivera, CA

JOB NUMBER: 0193171.01

REMARKS:

Depth (meters)	Depth (feet)	Sample Location	Sample Number	Blow Counts	OVM (ppm)	USCS Soil Class.	Description
0	0					ML	Brown clayey silt with a few lenses of coarse sand, dry, no odor
	5		BH14-5'	4 5 6		ML SM	Brown clayey silt grading into brown silty fine sand, dry, no odor
						SM	
	10		BH14-10'	1 1 2		SW	Brown silty fine sand grading into well graded tan sand, slightly moist, no odor
	15		BH14-15'	6 11 13		SP	Tan medium sand with an appreciable amount of fine sand, dry, no odor
							Tan well graded sand, slightly moist, no odor
	20		BH14-20'	6 6 7		SW ML	Brown clayey silt, low plasticity, slightly moist, no odor
						SM	
	25		BH14-25'	3 7 15		SM	Tan medium sand with lenses of brown clayey silt, slightly moist Brown silty fine sand
30							

Completion Detail



Drilling Company:	Layne Cristensen	Date Started: 2/13/01	Time Started: 08:35
Drilling Method:	Hollow Stem Auger	Date Ended: 2/13/01	Time Ended: 09:30
Logged By:	C. Farrell	Boring Diameter: 6 in.	Total Depth: 25.0 ft
Sampling Method:	Split spoon		

STANDARD_LOG 193171.GPJ STD_LOG.GDT 3/1/01

BORING LOG

SCS ENGINEERS
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FAX 562) 427-0805

PROJECT: LACDAC
LOCATION : 8841 E. SLAUSON, PICO RIVERA, CA
JOB NUMBER : 0193171.01
GEOLOGIST / ENGINEER : S. CLEMENTS
DRILLER : LAYNE, TERRY
DRILL RIG : CME 750 ALL-TERRAIN
DRILLING METHOD : HOLLOW STEM AUGER

HOLE / WELL # : M W 1
DIAMETER : 11 "
TOTAL DEPTH : 55 '
DATE STARTED : JANUARY 28, 1997
DATE COMPLETED : JANUARY 29, 1997
SAMPLING DEVICE : 2 1/2" X 18" I.D. SPLIT SPOON
PAGE : 1 OF 3

DEPTH (FEET)	SAMPLE	COMPLETION DETAIL	SAMPLE #	BLOW COUNTS / 6 INCHES	USCS SYMBOL	DESCRIPTION
0		TRAFFIC-RATED WELL COVER; CONCRETE				SURFACE - UNPAVED
1						
2						
3						
4		BENTONITE GROUT				
5			Ø	3,4,4	SP	5 ' - MEDIUM BROWN-GRAY MEDIUM-COARSE SAND, NO STAINING, VERY LOOSE, SLIGHTLY MOIST, NO ODOR
6						
7						
8		4" DIA. FLUSH-THREADED SCH. 40 PVC BLANK				
9						
10			MW1S-5-10 (7347)	4/4/5	SP	10 ' - MEDIUM BROWN-GRAY COARSE SAND WITH ~ 10 % FINE-COARSE GRAVEL, NO STAINING, VERY LOOSE, SLIGHTLY MOIST, NO ODOR
11						
12						
13						
14						
15			MW1S-5-15 (7348)	6/10/12	SP	15 ' - LIGHT GRAY MEDIUM SAND, NO STAINING, LOOSE, SLIGHTLY MOIST, NO ODOR
16						
17						
18						
19						
20						

BORING LOG

PROJECT : LACDAC

JOB NUMBER: 0193171.01

HOLE / WELL # : M W 1

PAGE : 2 OF 3

DEPTH (FEET)	SAMPLE	COMPLETION DETAIL	SAMPLE #	BLOW COUNTS / 6 INCHES	USCS SYMBOL	DESCRIPTION
21		BENTONITE GROUT	MW1S--5-20 DUP (9500)	7/9/10	S W	20 ' - MEDIUM BROWN - LIGHT GRAY MEDIUM SAND WITH 5 % FINE GRAVEL AND ~ 5 % SOFT CLAY LENSES, NO STAINING, SLIGHTLY MOIST, NO ODOR
22						
23			MW1S-5-20 (7349)			
24						
25			Ø	16/23/23	S P	25 ' - LIGHT GRAY MEDIUM SAND, NO STAINING, SLIGHTLY MOIST, NO ODOR
26						
27		4"-DIA. FLUSH-THREADED SCH. 40 PVC BLANK; HYDRATED MEDIUM BENTONITE CHIPS			C L	26.5 ' - MEDIUM BROWN SILTY CLAY, NO STAINING, SLIGHTLY MOIST, NO ODOR
28						
29						
30			MW1S-5-30 (7350)	7/14/22	S W C L S W	30 ' - MEDIUM BROWN - OLIVE GREEN SILTY CLAY, NO STAINING, SLIGHTLY MOIST, NO ODOR INTERBEDDED WITH MEDIUM BROWN MEDIUM - COARSE SAND, NO STAINING, SLIGHTLY MOIST, NO ODOR
31						
32					C L	
33						
34		2-/16 RMC LONESTAR SAND				
35			Ø	22/25/28	S P	35 ' - LIGHT GRAY FINE - MEDIUM SAND, NO STAINING, SLIGHTLY MOIST, NO ODOR
36						
37						
38						
39		4"-DIA. 0.010" SLOTTED FLUSH-THREADED SCH. 40 PVC SCREEN				
40			MW1S-5-40 (7351)	17/19/22	S P	40 ' - LIGHT GRAY MEDIUM - COARSE SAND, NO STAINING, MOIST, NO ODOR
41						
42						
43						
44						
45						

BORING LOG

PROJECT : LACDAC

JOB NUMBER: 0193171.01

HOLE / WELL # : M W 1

PAGE : 3 OF 3

DEPTH (FEET)	SAMPLE	COMPLETION DETAIL	SAMPLE #	BLOW COUNTS / 6 INCHES	USCS SYMBOL	DESCRIPTION
46			Ø	21/24/28	S P	45 ' - LIGHT GRAY MEDIUM - COARSE SAND WITH ~ 10 % FINE - COARSE GRAVEL, NO STAINING, WET, NO ODOR
47		2/16 RMC LONESTAR SAND				
48						
49		4"-DIA. 0.010" SLOTTED FLUSH-THREADED SCH. 40 PVC SCREEN				
50			Ø	25/28/30	S P	4 7 ' - LIGHT GRAY MEDIUM - COARSE SAND WITH ~ 10 % FINE - COARSE GRAVEL, NO STAINING, WET, NO ODOR
51						
52						TD = 55 '
53						
54		FLUSH-THREADED END CAP				
55						
56						
57						
58						
59						
60						
61						
62						
63						
64						
65						
66						
67						
68						
69						
70						

BORING LOG

SCS ENGINEERS
Environmental Consultants
3711 Long Beach Blvd.
Ninth Floor
Long Beach, CA
90807-3315
(562) 426-9544
FAX 562) 427-0805

PROJECT: LACDAC

LOCATION : 8841 E. SLAUSON, PICO RIVERA, CA

JOB NUMBER : 0193171.01

GEOLOGIST / ENGINEER : S. CLEMENTS

DRILLER : LAYNE, TERRY

DRILL RIG : CME 750 ALL-TERRAIN

DRILLING METHOD : HOLLOW STEM AUGER

HOLE / WELL # : M W 2

DIAMETER : 11 "

TOTAL DEPTH : 55 '

DATE STARTED : JANUARY 28, 1997

DATE COMPLETED : JANUARY 29, 1997

SAMPLING DEVICE : 2 1/2" X 18" I.D. SPLIT SPOON

PAGE : 1 OF 3

DEPTH (FEET)	SAMPLE	COMPLETION DETAIL	SAMPLE #	BLOW COUNTS / 6 INCHES	USCS SYMBOL	DESCRIPTION
0		TRAFFIC-RATED WELL COVER; CONCRETE				SURFACE - UNPAVED
1						
2						
3						
4		BENTONITE GROUT				
5			Ø	4,4/5	S P	5 ' - MEDIUM BROWN MEDIUM SAND, NO STAINING, VERY LOOSE, SLIGHTLY MOIST, NO ODOR
6						
7						
8		4" DIA. FLUSH-THREADED SCH. 40 PVC BLANK				
9						
10			Ø	4/3/4	S P	10 ' - MEDIUM BROWN MEDIUM-COARSE SAND, NO STAINING, SLIGHTLY MOIST, NO ODOR
11					C L	
12						
13						
14						
15			MW2S-5-15 (7352)	5/9/12	S P	15 ' - LIGHT GRAY MEDIUM-COARSE SAND, NO STAINING, SLIGHTLY MOIST, NO ODOR; SLIGHT IRON STAINING IN SOME AREAS
16						
17						
18						
19						
20						

BORING LOG

PROJECT : LACDAC

JOB NUMBER: 0193171.01

HOLE / WELL # : M W 2

PAGE : 2 OF 3

DEPTH (FEET)	SAMPLE	COMPLETION DETAIL	SAMPLE #	BLOW COUNTS / 6 INCHES	USCS SYMBOL	DESCRIPTION
21		BENTONITE GROUT	MW2S--5-20 DUP (7600)	16/13/13	S P	20 ' - MEDIUM BROWN - LIGHT GRAY MEDIUM -COARSE SAND, NO STAINING, SLIGHTLY MOIST, NO ODOR
22						
23			MW2S-5-20 (7353)			
24						
25			Ø	9/10/11	S M	25 ' - MEDIUM BROWN SILTY FINE SAND, NO STAINING, SLIGHTLY MOIST, NO ODOR
26						
27		4"-DIA. FLUSH-THREADED SCH. 40 PVC BLANK; HYDRATED MEDIUM BENTONITE CHIPS				
28						
29						
30			MW2S-5-30 (7354)	5/7/9	C L	30 ' - MEDIUM BROWN MEDIUM STIFF CLAY, NO STAINING, SLIGHTLY MOIST, NO ODOR
31						
32						
33						
34		2-/16 RMC LONESTAR SAND				
35			Ø	3/5/7	C L	35 ' - GRAY - RUST-COLOR SANDY CLAY, NO STAINING, SLIGHTLY MOIST, NO ODOR
36						
37						
38						
39		4"-DIA. 0.010" SLOTTED FLUSH-THREADED SCH. 40 PVC SCREEN				
40			MW2S-5-40 (7355)	20/21/23	S P	40 ' - GRAY COARSE SAND, NO STAINING, WET, NO ODOR
41						
42						
43						
44						
45						

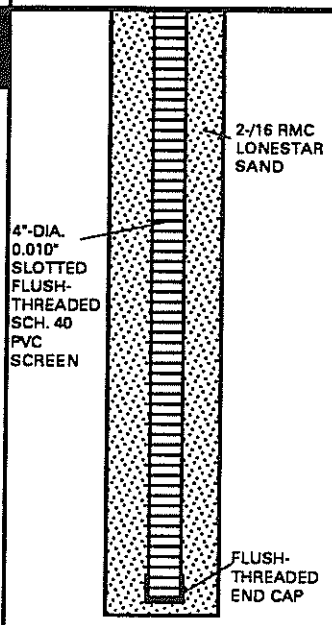
BORING LOG

PROJECT : LACDAC

JOB NUMBER: 0193171.01

HOLE / WELL # : M W 2

PAGE : 3 OF 3

DEPTH (FEET)	SAMPLE	COMPLETION DETAIL	SAMPLE #	BLOW COUNTS / 6 INCHES	USCS SYMBOL	DESCRIPTION
46			MW2S-5-45	28/36/47	S P	45 ' - LIGHT GRAY MEDIUM SAND, NO STAINING, WET, NO ODOR
47						
48						TD = 55 '
49						
50						
51						
52						
53						
54						
55						
56						
57						
58						
59						
60						
61						
62						
63						
64						
65						
66						
67						
68						
69						
70						

BORING LOG

SCS ENGINEERS
Environmental Consultants
3711 Long Beach Blvd.
Ninth Floor
Long Beach, CA
90807-3315
(562) 426-9544
FAX 562) 427-0805

PROJECT: LACDAC

LOCATION : 8841 E. SLAUSON, PICO RIVERA, CA

JOB NUMBER : 0193171.01

GEOLOGIST / ENGINEER : S. CLEMENTS

DRILLER : LAYNE, TERRY

DRILL RIG : CME 750 ALL-TERRAIN

DRILLING METHOD : HOLLOW STEM AUGER

HOLE / WELL # : M W 3

DIAMETER : 11 "

TOTAL DEPTH : 55 '

DATE STARTED : JANUARY 29, 1997

DATE COMPLETED : JANUARY 29, 1997

SAMPLING DEVICE : 2 1/2" X 18" I.D. SPLIT SPOON

PAGE : 1 OF 3

DEPTH (FEET)	SAMPLE	COMPLETION DETAIL	SAMPLE #	BLOW COUNTS / 6 INCHES	USCS SYMBOL	DESCRIPTION
0		TRAFFIC-RATED WELL COVER; CONCRETE				SURFACE - UNPAVED
1						NOTE: WELL DRILLED WITH MAST DOWN DUE TO OVERHAD HIGH POWER LINES. SOIL SAMPLES COLLECTED ONLY AT 15 ' AND 20 ' BGS PER DTSC APPROVAL
2						
3						
4		BENTONITE GROUT				
5						5 ' - 1 SACK SAND/CEMENT SLURRY
6						
7						
8		4" DIA. FLUSH-THREADED SCH. 40 PVC BLANK BLANK				
9						
10						10 ' - MEDIUM SAND
11						
12						
13						
14						
15			MW3-5-15 (7356)	10/12/15	S P	15 ' - MEDIUM BROWN MEDIUM-COARSE SAND WITH ~ 5 % FINE GRAVEL, NO STAINING, SLIGHTLY MOIST, NO ODOR
16						
17						
18						
19						
20						

BORING LOG

PROJECT : LACDAC

JOB NUMBER: 0193171.01

HOLE / WELL # : M W 3

PAGE : 2 OF 3

DEPTH (FEET)	SAMPLE	COMPLETION DETAIL	SAMPLE #	BLOW COUNTS / 6 INCHES	USCS SYMBOL	DESCRIPTION
21		BENTONITE GROUT	MW3S-5-20 (7592)	9/11/16	S P	20 ' - MEDIUM BROWN COARSE SAND WITH ~ 15 % FINE - COARSE GRAVEL, NO STAINING, SLIGHTLY MOIST, NO ODOR
22						
23			MW3S-5-20 (7357)			
24						
25						
26						
27		4"-DIA. FLUSH-THREADED SCH. 40 PVC BLANK BLANK				
28		HYDRATED MEDIUM BENTONITE CHIPS				
29						
30						
31						
32						
33						
34		2-/16 RMC LONESTAR SAND				
35						
36						
37						
38						
39		4"-DIA. 0.010" SLOTTED FLUSH-THREADED SCH. 40 PVC SCREEN				
40						
41						
42						
43						
44						
45						

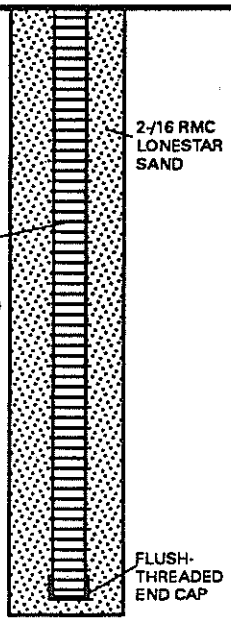
BORING LOG

PROJECT : LACDAC

JOB NUMBER: 0193171.01

HOLE / WELL # : M W 3

PAGE : 3 OF 3

DEPTH (FEET)	SAMPLE	COMPLETION DETAIL	SAMPLE #	BLOW COUNTS / 6 INCHES	USCS SYMBOL	DESCRIPTION
46						
47						
48						
49						
50						
51						
52						
53						
54						
55						TD = 55 '
56						
57						
58						
59						
60						
61						
62						
63						
64						
65						
66						
67						
68						
69						
70						

BORING LOG

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PROJECT: LACDAC

LOCATION : 8841 E. SLAUSON, PICO RIVERA, CA

JOB NUMBER : 0193171.01

GEOLOGIST / ENGINEER : S. CLEMENTS

DRILLER : LAYNE, TERRY

DRILL RIG : CME 750 ALL-TERRAIN

DRILLING METHOD : HOLLOW STEM AUGER

HOLE / WELL # : S S 4

DIAMETER : 7 "

TOTAL DEPTH : 6.5 '

DATE STARTED : JANUARY 30, 1997

DATE COMPLETED : JANUARY 30, 1997

SAMPLING DEVICE : 2 1/2" X 18" I.D. SPLIT SPOON

PAGE : 1 OF 1

DEPTH (FEET)	SAMPLE	COMPLETION DETAIL	SAMPLE #	BLOW COUNTS / 6 INCHES	USCS SYMBOL	DESCRIPTION
0						SURFACE - UNPAVED
1						
2						
3			SS4-5-3 (7360)	5/7/7	S P	3 ' - MEDIUM BROWN FINE - MEDIUM SAND, NO STAINING, SLIGHTLY MOIST, NO ODOR
4		HYDRATED MEDIUM BENTONITE CHIPS	SS4-5-3 (DUP) (7380)			
5			SS4-5-5 (7361)	6/6/7	S P	5 ' - MEDIUM BROWN - LIGHT GRAY MEDIUM - COARSE SAND, NO STAINING, SLIGHTLY MOIST, NO ODOR
6						TD = 6.5 '
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						

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PROJECT: LACDAC

LOCATION : 8841 E. SLAUSON, PICO RIVERA, CA

JOB NUMBER : 0193171.01

GEOLOGIST / ENGINEER : S. CLEMENTS

DRILLER : LAYNE, TERRY

DRILL RIG : CME 750 ALL-TERRAIN

DRILLING METHOD : HOLLOW STEM AUGER

HOLE / WELL # : S S 5

DIAMETER : 7 "

TOTAL DEPTH : 6.5 '

DATE STARTED : JANUARY 30, 1997

DATE COMPLETED : JANUARY 30, 1997

SAMPLING DEVICE : 2 1/2" X 18" I.D. SPLIT SPOON

PAGE : 1 OF 1

DEPTH (FEET)	SAMPLE	COMPLETION DETAIL	SAMPLE #	BLOW COUNTS / 6 INCHES	USCS SYMBOL	DESCRIPTION
0						SURFACE - UNPAVED
1						
2						
3			SS5-5-3 (7362)	8/10/12	S P	3 ' - MEDIUM BROWN - LIGHT GRAY MEDIUM - COARSE SAND, NO STAINING, SLIGHTLY MOIST, NO ODOR
4		HYDRATED MEDIUM BENTONITE CHIPS				
5			SS5-5-5 (7363)	5/7/9	S P	5 ' - MEDIUM BROWN - LIGHT GRAY MEDIUM - COARSE SAND, NO STAINING, SLIGHTLY MOIST, NO ODOR
6						TD = 6.5 '
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						

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PROJECT: LACDAC
LOCATION : 8841 E. SLAUSON, PICO RIVERA, CA
JOB NUMBER : 0193171.01
GEOLOGIST / ENGINEER : S. CLEMENTS
DRILLER : LAYNE, TERRY
DRILL RIG : CME 750 ALL-TERRAIN
DRILLING METHOD : HOLLOW STEM AUGER

HOLE / WELL # : S S 8
DIAMETER : 7 "
TOTAL DEPTH : 6.5 '
DATE STARTED : JANUARY 30, 1997
DATE COMPLETED : JANUARY 30, 1997
SAMPLING DEVICE : 2 1/2" X 18" I.D. SPLIT SPOON
PAGE : 1 OF 1

DEPTH (FEET)	SAMPLE	COMPLETION DETAIL	SAMPLE #	BLOW COUNTS / 6 INCHES	USCS SYMBOL	DESCRIPTION
0						SURFACE - UNPAVED
1						
2						
3			SS8-5-3 (7364)		S P	3 ' - LIGHT GRAY MEDIUM SAND, NO STAINING, SLIGHTLY MOIST
4		HYDRATED MEDIUM BENTONITE CHIPS				
5			SS8-5-5 (7365)		S P	5 ' - LIGHT GRAY MEDIUM SAND, NO STAINING, SLIGHTLY MOIST, NO ODOR
6						TD = 6.5 '
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						

BORING LOG

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PROJECT: LACDAC

LOCATION : 8841 E. SLAUSON, PICO RIVERA, CA

JOB NUMBER : 0193171.01

GEOLOGIST / ENGINEER : S. CLEMENTS

DRILLER : LAYNE, TERRY

DRILL RIG : CME 750 ALL-TERRAIN

DRILLING METHOD : HOLLOW STEM AUGER

HOLE / WELL # : S S 9

DIAMETER : 7 "

TOTAL DEPTH : 6.5 '

DATE STARTED : JANUARY 30, 1997

DATE COMPLETED : JANUARY 30, 1997

SAMPLING DEVICE : 2 1/2" X 18" I.D. SPLIT SPOON

PAGE : 1 OF 1

DEPTH (FEET)	SAMPLE	COMPLETION DETAIL	SAMPLE #	BLOW COUNTS / 6 INCHES	USCS SYMBOL	DESCRIPTION
0						SURFACE - UNPAVED
1						
2						
3			SS9-5-3 (7366)	3/4/5	S P	3 ' - MEDIUM BROWN MEDIUM SAND, NO STAINING, SLIGHTLY MOIST, NO ODOR
4		HYDRATED MEDIUM BENTONITE CHIPS				
5			SS9-5-5 (7367)	4/4/5	S P	5 ' - MEDIUM BROWN MEDIUM SAND, NO STAINING, SLIGHTLY MOIST, NO ODOR
6						TD = 6.5 '
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						

BORING LOG

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PROJECT: LACDAC

LOCATION : 8841 E. SLAUSON, PICO RIVERA, CA

JOB NUMBER : 0193171.01

GEOLOGIST / ENGINEER : S. CLEMENTS

DRILLER : LAYNE, TERRY

DRILL RIG : CME 750 ALL-TERRAIN

DRILLING METHOD : HOLLOW STEM AUGER

HOLE / WELL # : S S 1 4

DIAMETER : 7 "

TOTAL DEPTH : 6.5 '

DATE STARTED : JANUARY 30, 1997

DATE COMPLETED : JANUARY 30, 1997

SAMPLING DEVICE : 2 1/2" X 18" I.D. SPLIT SPOON

PAGE : 1 OF 1

DEPTH (FEET)	SAMPLE	COMPLETION DETAIL	SAMPLE #	BLOW COUNTS / 6 INCHES	USCS SYMBOL	DESCRIPTION
0						SURFACE - UNPAVED
1						
2						
3			SS14-5-3 (7368)	11/11/12	S P	3 ' - LIGHT GRAY MEDIUM SAND, NO STAINING, SLIGHTLY MOIST, NO ODOR
4		HYDRATED MEDIUM BENTONITE CHIPS				
5			SS9-5-5 (7369)	6/7/9	S P	5 ' - LIGHT GRAY MEDIUM - COARSE SAND, NO STAINING, SLIGHTLY MOIST, NO ODOR
6						TD = 6.5 '
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						

BORING LOG

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PROJECT: LACDAC

LOCATION : 8841 E. SLAUSON, PICO RIVERA, CA

JOB NUMBER : 0193171.01

GEOLOGIST / ENGINEER : S. CLEMENTS

DRILLER : LAYNE, TERRY

DRILL RIG : CME 750 ALL-TERRAIN

DRILLING METHOD : HOLLOW STEM AUGER

HOLE / WELL # : S S 1 8

DIAMETER : 7 "

TOTAL DEPTH : 6.5 '

DATE STARTED : JANUARY 30, 1997

DATE COMPLETED : JANUARY 30, 1997

SAMPLING DEVICE : 2 1/2" X 18" I.D. SPLIT SPOON

PAGE : 1 OF 1

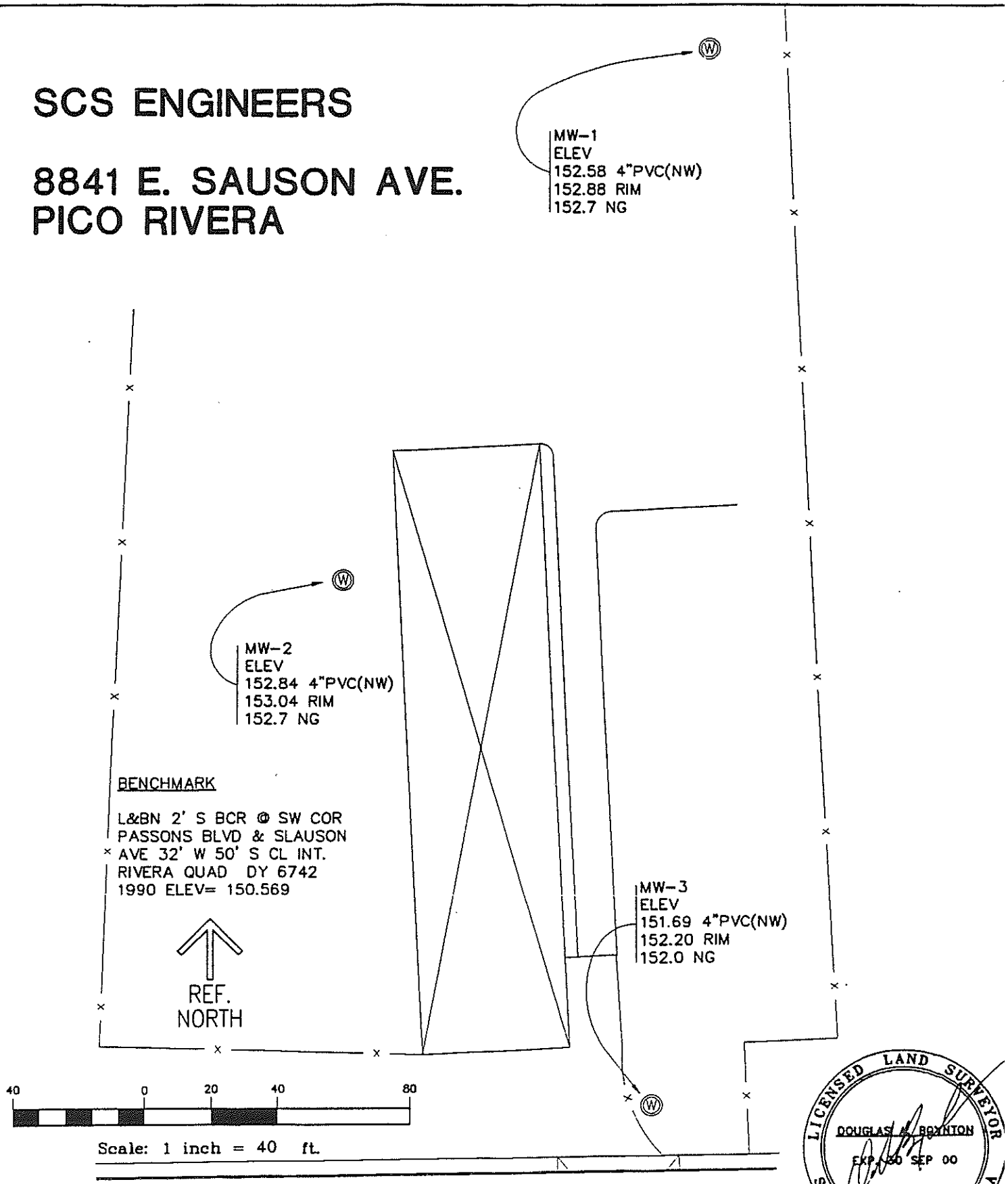
DEPTH (FEET)	SAMPLE	COMPLETION DETAIL	SAMPLE #	BLOW COUNTS / 6 INCHES	USCS SYMBOL	DESCRIPTION
0						SURFACE - UNPAVED
1						
2						
3			SS18-5-3 (7370)	11/11/13	S P	3 ' - LIGHT GRAY MEDIUM SAND, NO STAINING, SLIGHTLY MOIST, NO ODOR
4		HYDRATED MEDIUM BENTONITE CHIPS				
5			SS18-5-5 (7371)	10/10/11	S P	5 ' - LIGHT GRAY MEDIUM - COARSE SAND, NO STAINING, SLIGHTLY MOIST, NO ODOR
6						TD = 6.5 '
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						

APPENDIX D

GROUNDWATER MONITORING WELL SURVEY REPORT

SCS ENGINEERS

8841 E. SAUSON AVE.
PICO RIVERA



SLAUSON AVE.

DATE OF SURVEY: 14 FEB 97

DULIN & BOYNTON
LICENSED SURVEYORS
729 E. WILLOW STREET • (310)426-6464 FAX(310)426-7707 • SIGNAL HILL, CA. 90806

APPENDIX E

SOIL VAPOR SURVEY REPORT

April 14, 1995

Mr. Steve Clements
SCS Engineers
3711 Long Beach Blvd.
Ninth Floor
Long Beach, CA 90807-3315

SUBJECT: DATA REPORT - LA DEPT. OF AGRICULTURE, 8841 EAST SLAUSON AVENUE, PICO RIVERA, CA - SCS ENGINEERS PROJECT #0193171.01

TEG Project #950406T2

Mr. Clements:

Please find enclosed a data report for the above referenced project. All samples were analyzed on-site in TEG's DOHS certified mobile laboratory (CERT #1745).

Project Summary

Soil vapor from 17 points was analyzed for:

- volatile halogenated hydrocarbons by EPA Method 8010
- volatile aromatic hydrocarbons (BTEX) by EPA Method 8020

Samples were received on-site in appropriate containers with appropriate labels, seals, and chain-of-custody documentation.

Project Narrative

The results for all analyses and required QA/QC analyses are summarized in the enclosed tables. All calibrations, blanks, surrogates, and spike recoveries fulfilled quality control criteria. No data qualifiers (flags) apply to any of the reported data.

TEG appreciates the opportunity to provide analytical services to SCS Engineers on this project. If you have any questions relating to these data or report, please do not hesitate to contact us.

Sincerely,

Blayne Hartman

Dr. Blayne Hartman

432 NORTH CEDROS AVENUE • SOLANA BEACH, CA 92075 • 619-793-0401 • FAX 619-793-0404

teg

SCS ENGINEERS PROJECT #PICO RIVERA
8941 E. Slausson Ave., Pico Rivera, CA

TEG Project #950406T2
GC SHIMADZU 14A RIGHT
VOLATILE HALOGENATED AND AROMATIC HYDROCARBONS (EPA Method 8010/8020) SOIL VAPOR ANALYSES
SOIL VAPOR DATA IN UG/L-VAPOR

	BLANK	SV-4	SV-5	SV-5 DUP	SV-5 DUP2	SV-6	SV-7	SV-8	SV-9	SV-10
DATE	04/06/95	04/06/95	04/06/95	04/06/95	04/06/95	04/06/95	04/06/95	04/06/95	04/06/95	04/06/95
ANALYSIS TIME	08:31	10:35	11:03	11:56	15:11	08:59	09:48	09:23	12:44	13:57
SAMPLING DEPTH (feet)	--	14	15	15	15	5	5	5	14	15
VOLUME WITHDRAWN (cc)	20	120	120	140	120	60	60	60	120	120
VOLUME INJECTED	1	1	1	1	1	1	1	1	1	1
DILUTION FACTOR	1	1	1	1	1	1	1	1	1	1
CARBON TETRACHLORIDE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
CHLOROFORM	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
FREON 113	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
1,1 DiCHLORO ETHANE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
1,1 DiCHLORO ETHENE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
1,2 DiCHLORO ETHANE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
1,2 TR DiCHLORO ETHENE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
1,2 CIS DiCHLORO ETHENE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
DiCHLOROMETHANE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
1122 TETRACHLORO ETHANE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
1112 TETRACHLORO ETHANE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
TETRACHLORO ETHENE	nd	nd	1.8	nd	nd	nd	nd	nd	nd	nd
1,1,1 TriCHLORO ETHANE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
1,1,2 TriCHLORO ETHANE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
TriCHLORO ETHENE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
BENZENE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
ETHYLBENZENE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
TOLUENE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
m&p-XYLENES	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
o-XYLENE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd

ND INDICATES NOT DETECTED AT DETECTION LIMIT OF 1.0 UG/L-VAPOR FOR EACH COMPOUND

ANALYSES PERFORMED ON-SITE IN TEG'S DOHS CERTIFIED MOBILE LABORATORY (CERT #1745)
ANALYSES PERFORMED BY: MR. WES ROBB
DATA REVIEWED BY: DR. BLAYNE HARTMAN

Blayne Hartman
4-14-95

SCS ENGINEERS PROJECT #PICO RIVERA
8841 E. Slausson Ave., Pico Rivera, CA

TEG Project #950406T2
GC SHIMADZU 14A RIGHT
VOLATILE HALOGENATED AND AROMATIC HYDROCARBONS (EPA Method 8010/8020) SOIL VAPOR ANALYSES
SOIL VAPOR DATA IN UG/L-VAPOR

	SV-11	SV-12	SV-13	SV-14	SV-15	SV-16	SV-17	SV-18	SV-19	SV-20
DATE	04/06/95	04/06/95	04/06/95	04/06/95	04/06/95	04/06/95	04/06/95	04/06/95	04/06/95	04/06/95
ANALYSIS TIME	10:11	11:28	12:19	14:23	13:05	13:33	14:46	15:33	15:53	16:19
SAMPLING DEPTH (feet)	5	5	5	5	5	5	5	5	5	10
VOLUME WITHDRAWN (cc)	60	60	60	60	60	60	60	60	60	90
VOLUME INJECTED	1	1	1	1	1	1	1	1	1	1
DILUTION FACTOR	1	1	1	1	1	1	1	1	1	1
CARBON TETRACHLORIDE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
CHLOROFORM	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
FREON 113	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
1,1 DiCHLORO ETHANE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
1,1 DiCHLORO ETHENE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
1,2 DiCHLORO ETHANE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
1,2 TR DiCHLORO ETHENE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
1,2 CIS DiCHLORO ETHENE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
DiCHLOROMETHANE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
1122 TETRACHLORO ETHANE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
1112 TETRACHLORO ETHANE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
TETRACHLORO ETHENE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
1,1,1 TriCHLORO ETHANE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
1,1,2 TriCHLORO ETHANE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
TriCHLORO ETHENE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
BENZENE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
ETHYLBENZENE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
TOLUENE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
m&p-XYLENES	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
o-XYLENE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd

ND INDICATES NOT DETECTED AT DETECTION LIMIT OF 1.0 UG/L-VAPOR FOR EACH COMPOUND

ANALYSES PERFORMED ON-SITE IN TEG'S DOHS CERTIFIED MOBILE LABORATORY (CERT #1745)
ANALYSES PERFORMED BY: MR. WES ROBB
DATA REVIEWED BY: DR. BLAYNE HARTMAN

Blayne Hartman
4-14-95

SCS ENGINEERS PROJECT #PICO RIVERA
8841 E. Slausson Ave., Pico Rivera, CA

TEG Project #950406T2
GC SHIMADZU 14A RIGHT
VOLATILE HALOGENATED AND AROMATIC HYDROCARBONS (EPA Method 8010/8020) SOIL VAPOR ANALYSES
AREA COUNTS

	BLANK		SV-4		SV-5		SV-5 DUP		SV-5 DUP2	
	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA
DATE		04/06/95		04/06/95		04/06/95		04/06/95		04/06/95
ANALYSIS TIME		08:31		10:35		11:03		11:56		15:11
SAMPLING DEPTH (feet)	--	--		14		15		15		15
VOLUME WITHDRAWN (cc)	20	20		120		120		140		120
VOLUME INJECTED	1	1	1	1	1	1	1	1	1	1
DILUTION FACTOR	1	1	1	1	1	1	1	1	1	1
CARBON TETRACHLORIDE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
CHLOROFORM	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
FREON 113	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
1,1 DiCHLORO ETHANE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
1,1 DiCHLORO ETHENE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
1,2 DiCHLORO ETHANE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
1,2 TR DiCHLORO ETHENE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
1,2 CIS DiCHLORO ETHENE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
DiCHLOROMETHANE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
1122 TETRACHLORO ETHANE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
1112 TETRACHLORO ETHANE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
TETRACHLORO ETHENE	nd	nd	nd	nd	11.6	9.0	nd	nd	nd	nd
1,1,1 TriCHLORO ETHANE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
1,1,2 TriCHLORO ETHANE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
TriCHLORO ETHENE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
BENZENE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
ETHYLBENZENE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
TOLUENE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
m&p-XYLENES	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
o-XYLENE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd

ND INDICATES NOT DETECTED AT DETECTION LIMIT OF 1.0 UG/L-VAPOR FOR EACH COMPOUND

ANALYSES PERFORMED ON-SITE IN TEG'S DOHS CERTIFIED MOBILE LABORATORY (CERT #1745)
ANALYSES PERFORMED BY: MR. WES ROBB
DATA REVIEWED BY: DR. BLAYNE HARTMAN

SCS ENGINEERS PROJECT #PICO RIVERA
8841 E. Slausson Ave., Pico Rivera, CA

TEG Project #950406T2
GC SHIMADZU 14A RIGHT
VOLATILE HALOGENATED AND AROMATIC HYDROCARBONS (EPA Method 8010/8020) SOIL VAPOR ANALYSES
AREA COUNTS

	RT	SV-6 AREA	RT	SV-7 AREA	RT	SV-8 AREA	RT	SV-9 AREA	RT	SV-10 AREA
DATE		04/06/95		04/06/95		04/06/95		04/06/95		04/06/95
ANALYSIS TIME		08:59		09:48		09:23		12:44		13:57
SAMPLING DEPTH (feet)		5		5		5		14		15
VOLUME WITHDRAWN (cc)		60		60		60		120		120
VOLUME INJECTED	1	1	1	1	1	1	1	1	1	1
DILUTION FACTOR	1	1	1	1	1	1	1	1	1	1
CARBON TETRACHLORIDE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
CHLOROFORM	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
FREON 113	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
1,1 DiCHLORO ETHANE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
1,1 DiCHLORO ETHENE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
1,2 DiCHLORO ETHANE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
1,2 TR DiCHLORO ETHENE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
1,2 CIS DiCHLORO ETHENE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
DiCHLOROMETHANE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
1122 TETRACHLORO ETHANE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
1112 TETRACHLORO ETHANE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
TETRACHLORO ETHENE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
1,1,1 TriCHLORO ETHANE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
1,1,2 TriCHLORO ETHANE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
TriCHLORO ETHENE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
BENZENE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
ETHYLBENZENE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
TOLUENE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
m&p-XYLENES	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
o-XYLENE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd

ND INDICATES NOT DETECTED AT DETECTION LIMIT OF 1.0 UG/L-VAPOR FOR EACH COMPOUND

ANALYSES PERFORMED ON-SITE IN TEG'S DOHS CERTIFIED MOBILE LABORATORY (CERT #1745)
ANALYSES PERFORMED BY: MR. WES ROBB
DATA REVIEWED BY: DR. BLAYNE HARTMAN

teg

SCS ENGINEERS PROJECT #PICO RIVERA
8841 E. Slausson Ave., Pico Rivera, CA

TEG Project #950406T2
GC SHIMADZU 14A RIGHT
VOLATILE HALOGENATED AND AROMATIC HYDROCARBONS (EPA Method 8010/8020) SOIL VAPOR ANALYSES
AREA COUNTS

	RT	SV-11 AREA	RT	SV-12 AREA	RT	SV-13 AREA	RT	SV-14 AREA	RT	SV-15 AREA
DATE		04/06/95		04/06/95		04/06/95		04/06/95		04/06/95
ANALYSIS TIME		10:11		11:28		12:19		14:23		13:05
SAMPLING DEPTH (feet)		5		5		5		5		5
VOLUME WITHDRAWN (cc)		60		60		60		60		60
VOLUME INJECTED	1	1	1	1	1	1	1	1	1	1
DILUTION FACTOR	1	1	1	1	1	1	1	1	1	1
CARBON TETRACHLORIDE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
CHLOROFORM	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
FREON 113	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
1,1 DiCHLORO ETHANE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
1,1 DiCHLORO ETHENE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
1,2 DiCHLORO ETHANE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
1,2 TR DiCHLORO ETHENE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
1,2 CIS DiCHLORO ETHENE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
DiCHLOROMETHANE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
1122 TETRACHLORO ETHANE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
1112 TETRACHLORO ETHANE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
TETRACHLORO ETHENE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
1,1,1 TriCHLORO ETHANE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
1,1,2 TriCHLORO ETHANE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
TriCHLORO ETHENE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
BENZENE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
ETHYLBENZENE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
TOLUENE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
m&p-XYLENES	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
o-XYLENE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd

ND INDICATES NOT DETECTED AT DETECTION LIMIT OF 1.0 UG/L-VAPOR FOR EACH COMPOUND

ANALYSES PERFORMED ON-SITE IN TEG'S DOHS CERTIFIED MOBILE LABORATORY (CERT #1745)
ANALYSES PERFORMED BY: MR. WES ROBB
DATA REVIEWED BY: DR. BLAYNE HARTMAN

SCS ENGINEERS PROJECT #PICO RIVERA
8841 E. Slausson Ave., Pico Rivera, CA

TEG Project #950406T2
GC SHIMADZU 14A RIGHT
VOLATILE HALOGENATED AND AROMATIC HYDROCARBONS (EPA Method 8010/8020) SOIL VAPOR ANALYSES
AREA COUNTS

	RT	SV-16 AREA	RT	SV-17 AREA	RT	SV-18 AREA	RT	SV-19 AREA	RT	SV-20 AREA
DATE		04/06/95		04/06/95		04/06/95		04/06/95		04/06/95
ANALYSIS TIME		13:33		14:46		15:33		15:53		16:19
SAMPLING DEPTH (feet)		5		5		5		5		10
VOLUME WITHDRAWN (cc)		60		60		60		60		90
VOLUME INJECTED	1	1	1	1	1	1	1	1	1	1
DILUTION FACTOR	1	1	1	1	1	1	1	1	1	1
CARBON TETRACHLORIDE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
CHLOROFORM	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
FREON 113	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
1,1 DiCHLORO ETHANE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
1,1 DiCHLORO ETHENE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
1,2 DiCHLORO ETHANE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
1,2 TR DiCHLORO ETHENE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
1,2 CIS DiCHLORO ETHENE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
DiCHLOROMETHANE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
1122 TETRACHLORO ETHANE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
1112 TETRACHLORO ETHANE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
TETRACHLORO ETHENE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
1,1,1 TriCHLORO ETHANE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
1,1,2 TriCHLORO ETHANE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
TriCHLORO ETHENE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
BENZENE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
ETHYLBENZENE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
TOLUENE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
m&p-XYLENES	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
o-XYLENE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd

ND INDICATES NOT DETECTED AT DETECTION LIMIT OF 1.0 UG/L-VAPOR FOR EACH COMPOUND

ANALYSES PERFORMED ON-SITE IN TEG'S DOHS CERTIFIED MOBILE LABORATORY (CERT #1745)
ANALYSES PERFORMED BY: MR. WES ROBB
DATA REVIEWED BY: DR. BLAYNE HARTMAN

teg

CALIBRATION CURVE PREPARATION DATE:03/23/95, FREONS 11, 12, VINYL CHLORIDE, CHLOROETHANE 09/14/94

LAB: TEG TIOGA 2
INSTRUMENT: GC14-RIGHT

		LOW STANDARD				MID STANDARD				HIGH STANDARD					
COMPOUND	DETECTOR	RT	MASS	AREA	RF	RT	MASS	AREA	RF	RT	MASS	AREA	RF	AVE RF	%RSD
CARBON TETRACHLORIDE	HALL	6.3	5	2259	451.8	6.3	20	10141	507.1	6.3	40	18729	468.2	475.7	6.0%
CHLOROFORM	HALL	5.8	5	1927	385.3	5.8	20	8693	434.6	5.8	40	16791	419.8	413.2	6.1%
DICHLOROMETHANE	HALL	3.7	5	1864	372.8	3.7	20	7848	392.4	3.6	40	14821	370.5	378.6	3.2%
1,1 DiCHLORO ETHANE	HALL	4.5	5	1761	352.2	4.5	20	7798	389.9	4.5	40	14939	373.5	371.9	5.1%
1,2 DiCHLORO ETHANE	HALL	6.7	5	2148	429.6	6.7	20	9453	472.7	6.7	40	17132	428.3	443.5	5.7%
1,1 DiCHLORO ETHENE	PID	3.0	5	23	4.6	3.0	20	71	3.5	3.0	40	144	3.6	3.9	15.2%
Cis 1,2 DiCHLORO ETHENE	PID	5.2	5	26	5.3	5.3	20	100	5.0	5.2	40	185	4.6	5.0	6.6%
Tr 1,2 DiCHLORO ETHENE	PID	3.9	5	44	8.7	3.9	20	162	8.1	3.9	40	322	8.0	8.3	4.6%
TETRACHLORO ETHANE (1112)	HALL	14.2	5	2226	445.3	14.2	20	9623	481.2	14.2	40	19784	494.6	473.7	5.4%
TETRACHLORO ETHANE (1122)	HALL	17.7	5	1974	394.7	17.7	20	8809	440.4	17.7	40	18848	471.2	435.4	8.8%
TETRACHLORO ETHENE	PID	11.7	5	26	5.2	11.7	20	102	5.1	11.7	40	206	5.1	5.1	0.8%
1,1,1 TriCHLORO ETHANE	HALL	6.0	5	1791	358.3	6.1	20	8088	404.4	6.0	40	15565	389.1	383.9	6.1%
1,1,2 TriCHLORO ETHANE	HALL	14.4	5	1732	346.5	11.5	20	8023	401.1	11.4	40	16000	400.0	382.5	8.2%
TriCHLORO ETHENE	PID	7.7	5	33	6.7	7.8	20	118	5.9	7.7	40	242	6.0	6.2	6.6%
VINYL CHLORIDE	HALL	2.0	5	808	161.5	1.9	25	3612	144.5	1.9	50	7404	148.1	151.4	5.9%
FREON 11	HALL	2.6	5	1500	300.0	2.6	25	6051	242.0	2.6	50	9925	198.5	246.8	20.6%
FREON 12	HALL	1.6	5	823	164.6	1.6	25	3882	155.3	1.6	50	7202	144.0	154.6	6.7%
FREON 113	HALL	3.1	10	2391	239.1	3.1	40	10134	253.3	3.1	80	19367	242.1	244.8	3.1%
CHLOROETHANE	HALL	2.4	5	417	83.5	2.3	10	658	65.8	2.3	50	2577	51.5	66.9	23.9%
BENZENE	PID	6.6	5	53	10.6	6.6	20	214	10.7	6.6	40	412	10.3	10.5	2.0%
CHLOROBENZENE	PID	13.9	5	64	12.8	13.9	20	253	12.6	13.9	40	493	12.3	12.6	1.9%
ETHYLBENZENE	PID	14.2	5	53	10.6	14.2	20	212	10.6	14.2	40	410	10.2	10.5	2.1%
TOLUENE	PID	10.4	5	55	11.0	10.4	20	209	10.4	10.4	40	412	10.3	10.6	3.8%
m&p-XYLENES	PID	14.5	10	117	11.7	14.5	40	476	11.9	14.5	80	878	11.0	11.5	4.3%
o-XYLENES	PID	15.6	5	54	10.7	15.6	20	209	10.5	15.6	40	412	10.3	10.5	2.2%

ANALYSES PERFORMED ON-SITE IN TEG'S CA DOHS CERTIFIED MOBILE LABORATORY (CERT #1745)
ANALYSES PERFORMED BY: MR. PAUL MOSHER
DATA REVIEWED BY: DR. BLAYNE HARTMAN

SOIL GAS DAILY CONTINUING CALIBRATION

DATE: 04/06/95

SUPPLY SOURCE: TEG RWQCB MIX

INSTRUMENT: CRUISEMASTER SHIMADZU GC14A-RIGHT

COMPOUND	DETECTOR	AVE RF	MASS	RT	AREA	RF	%DIFF
CARBON TETRACHLORIDE	HALL	475.7	20	6.3	10192	509.6	7.1%
CHLOROFORM	HALL	413.2	20	5.8	9124	456.2	10.4%
DiCHLORO ETHANE (11)	HALL	371.9	20	4.5	7650	382.5	2.8%
DiCHLORO ETHANE (12)	HALL	443.5	20	6.7	9297	464.8	4.8%
DiCHLORO ETHENE (11)	PID	3.9	20	3.0	67	3.3	14.2%
DiCHLORO ETHENE (12 CIS)	PID	5.0	20	5.2	98	4.9	1.7%
DiCHLORO ETHENE (12 TRANS)	PID	8.3	20	3.9	155	7.8	6.6%
DiCHLOROMETHANE	HALL	378.6	20	3.6	7804	390.2	3.1%
TetraCHLORO ETHANE (1112)	HALL	473.7	20	14.2	9998	499.9	5.5%
TetraCHLORO ETHENE	PID	5.1	20	11.7	104	5.2	1.8%
TriCHLORO ETHANE (111)	HALL	383.9	20	6.0	7967	398.3	3.8%
TriCHLORO ETHANE (112)	HALL	382.5	20	11.5	8322	416.1	8.8%
TriCHLORO ETHENE	PID	6.2	20	7.7	118	5.9	5.0%
TriCHLORO ETHANE (111)	FID	0.198	1000	3.3	223	0.223	12.6%
TriCHLORO ETHENE	FID	0.204	1000	4.5	229	0.229	12.4%
TetraCHLORO ETHENE	FID	0.171	1000	8.1	191	0.191	11.4%
BENZENE	PID	10.5	20	6.6	212	10.6	1.0%
CHLOROBENZENE	PID	12.6	20	13.9	249	12.4	1.3%
ETHYLBENZENE	PID	10.5	20	14.2	212	10.6	0.8%
TOLUENE	PID	10.6	20	10.4	212	10.6	0.0%
m&p-XYLENES	PID	11.5	40	14.6	477	11.9	3.7%
o-XYLENES	PID	10.5	20	15.7	210	10.5	0.1%

ANALYSES PERFORMED ON-SITE IN TEG'S CA DOHS CERTIFIED MOBILE LABORATORY (CERT #1745)

ANALYSES PERFORMED BY: MR. WES ROBB

DATA REVIEWED BY: DR. BLAYNE HARTMAN

Blayne Hartman
4-14-95

teg

SOIL GAS DAILY QUALITY CONTROL SAMPLE

DATE: 04/06/95

SUPPLY SOURCE: CHEMSERVE 8021 MIX

INSTRUMENT: CRUISEMASTER SHIMADZU GC14A-RIGHT

COMPOUND	DETECTOR	AVE RF	MASS	RT	AREA	RF	%DIFF
CARBON TETRACHLORIDE	HALL	475.7	20	6.3	9762	488.1	2.6%
CHLOROFORM	HALL	413.2	20	5.8	8504	425.2	2.9%
DiCHLORO ETHANE (11)	HALL	371.9	20	4.5	7391	369.5	0.6%
DiCHLORO ETHANE (12)	HALL	443.5	20	6.7	9192	459.6	3.6%
DiCHLORO ETHENE (11)	PID	3.9	20	3.0	64	3.2	17.3%
DiCHLORO ETHENE (12 CIS)	PID	5.0	20	5.2	96	4.8	4.4%
DiCHLORO ETHENE (12 TRANS)	PID	8.3	20	3.9	152	7.6	8.4%
DiCHLOROMETHANE	HALL	378.6	20	3.6	7292	364.6	3.7%
TetraCHLORO ETHANE (1112)	HALL	473.7	20	14.2	9829	491.5	3.7%
TetraCHLORO ETHENE	PID	5.1	20	11.7	100	5.0	1.7%
TriCHLORO ETHANE (111)	HALL	383.9	20	6.0	7603	380.2	1.0%
TriCHLORO ETHANE (112)	HALL	382.5	20	11.4	7727	386.4	1.0%
TriCHLORO ETHENE	PID	6.2	20	7.7	115	5.7	7.5%
BENZENE	PID	10.5	20	6.6	210	10.5	0.1%
CHLOROBENZENE	PID	12.6	20	13.9	245	12.2	2.8%
ETHYLBENZENE	PID	10.5	20	14.2	201	10.1	4.1%
TOLUENE	PID	10.6	20	10.4	209	10.4	1.6%
m&p-XYLENES	PID	11.5	40	14.5	463	11.6	0.6%
o-XYLENES	PID	10.5	20	15.6	199	10.0	5.0%

ANALYSES PERFORMED ON-SITE IN TEG'S CA DOHS CERTIFIED MOBILE LABORATORY (CERT #1745)

ANALYSES PERFORMED BY: MR. WES ROBB

DATA REVIEWED BY: DR. BLAYNE HARTMAN

Blayne Hartman
4-14-95

ANALYTICAL PROCEDURES

The following text gives a brief summary of the analytical procedures used. Detailed descriptions are available upon request.

SAMPLE PREPARATION

Waters

Waters are prepared for TPH analysis (gasoline and diesel) and aromatic hydrocarbon analysis (BTEX) by either liquid-liquid extraction with freon 113 using a modified EPA Method 3510 or by purge & trap using EPA method 5030. For volatile chlorinated hydrocarbons, water samples are prepared by purge & trap following EPA Method 5030.

Soils

Soil samples are extracted with methanol for volatile chlorinated hydrocarbon compounds (EPA 8010) and with freon 113 for volatile aromatic hydrocarbon compounds (EPA 8020) and fuel compounds (DOHS approved EPA 8015m) by liquid-solid extraction using a modified EPA method 3550.

GAS CHROMATOGRAPHY

Volatile Chlorinated Hydrocarbons

Water samples and soil extracts are purged in a Tekmar LSC-2000 purge & trap, and backflushed into a Shimadzu 14A gas chromatograph equipped with megabore capillary columns and photoionization detector (PID) and Hall electrolytic detectors following EPA Methods 601/8010 and 602/8020.

Volatile Aromatic Hydrocarbons (BTEX) & Total Fuel Hydrocarbons (TPH)

An aliquot of the soil extract is injected on-column into a Shimadzu gas chromatograph equipped with megabore capillary columns, photoionization (PID) and flame ionization detectors (FID).

TOTAL RECOVERABLE HYDROCARBONS

Extracts are scrubbed with silica gel and measured on a BUCK 404 Infrared Analyzer following EPA 418.1 protocols.

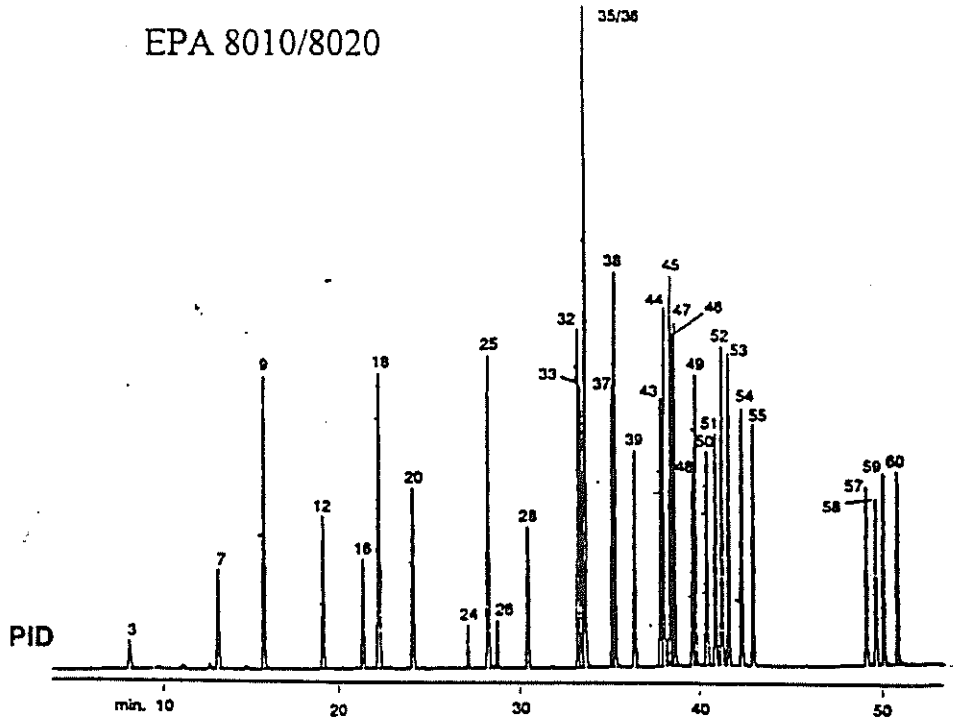
DATA ACQUISITION & PROCESSING

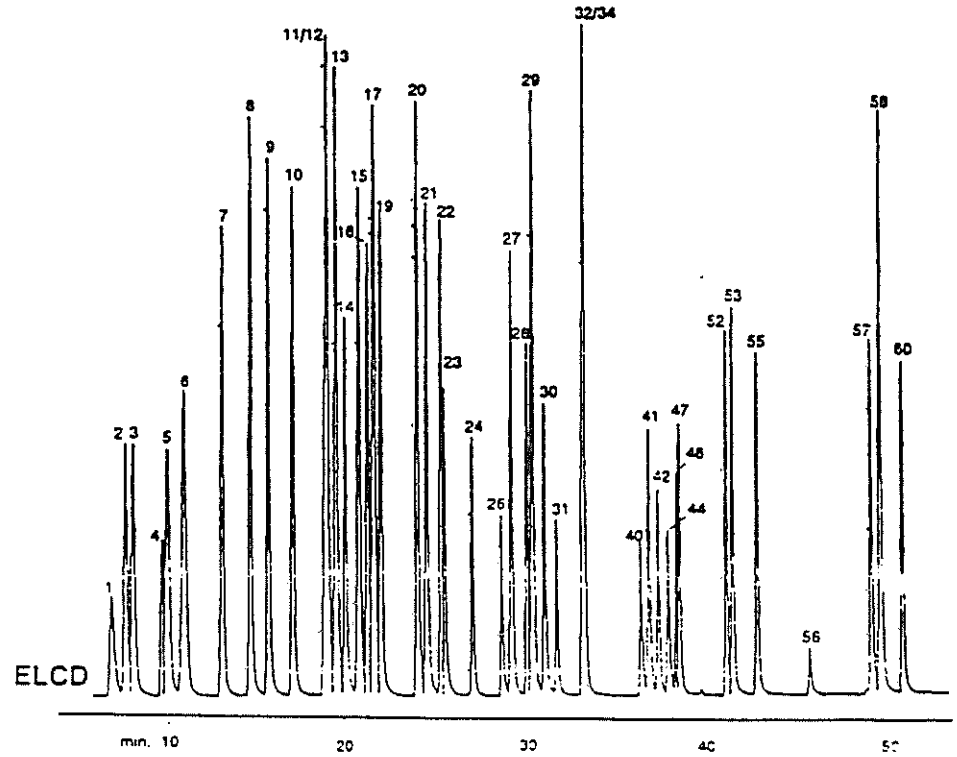
Data from the gas chromatographs are acquired by Peaksimple computer data acquisition system. Separate chromatograms are printed for each detector. The resulting chromatograms are inspected at the end of each run and the data entered into a spreadsheet for on-site processing and evaluation.

HALOGENATED & AROMATIC VOLATILE HYDROCARBONS

EPA 8010/8020

1	dichlorodifluoromethane
2	chloromethane
3	vinyl chloride
4	bromomethane
5	chloroethane
6	trichlorofluoromethane
7	1,1-dichloroethene
8	methylene chloride
9	trans-1,2-dichloroethene
10	1,1-dichloroethane
11	2,2-dichloropropane
12	cis-1,2-dichloroethene
13	chloroform
14	bromochloromethane
15	1,1,1-trichloroethane
16	1,1-dichloropropene
17	carbon tetrachloride
18	benzene
19	1,2-dichloroethane
20	trichloroethene
21	1,2-dichloropropane
22	bromodichloromethane
23	dibromomethane
24	cis-1,3-dichloropropene
25	toluene
26	trans-1,3-dichloropropene
27	1,1,2-trichloroethane
28	tetrachloroethene
29	1,3-dichloropropane
30	dibromochloromethane
31	1,2-dibromoethane
32	chlorobenzene
33	ethyl benzene
34	1,1,1,2-tetrachloroethane
35	*m*-xylene
36	*p*-xylene
37	*o*-xylene
38	styrene
39	isopropyl benzene
40	bromoform
41	1,1,2,2-tetrachloroethane
42	1,2,3-trichloropropane
43	n-propyl benzene
44	bromobenzene
45	1,3,5-trimethylbenzene
46	2-chlorotoluene
47	4-chlorotoluene
48	tert-butylbenzene
49	1,2,4-trimethylbenzene
50	sec-butylbenzene
51	*p*-isopropyltoluene
52	1,3-dichlorobenzene
53	1,4-dichlorobenzene
54	n-butylbenzene
55	1,2-dichlorobenzene
56	1,2-dibromo-3-chloropropane
57	1,2,4-trichlorobenzene
58	hexachlorobutadiene
59	naphthalene
60	1,2,3-trichlorobenzene



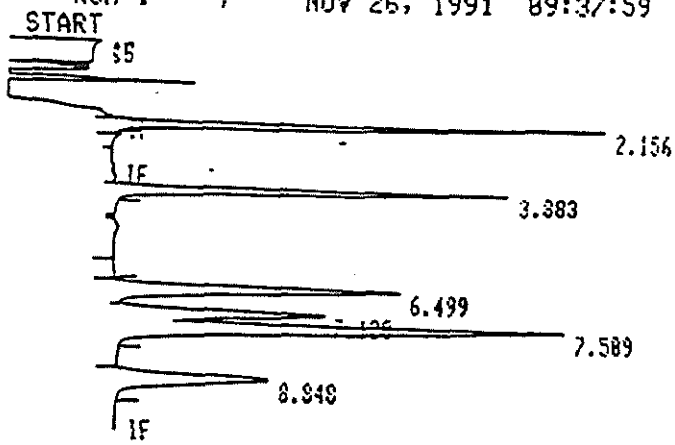


Transglobal Environmental Geochemistry

452 N. Cedros Ave., Solana Beach, CA 92075 Ph: (619) 793-0401 Fax: (619) 793-0404

VOLATILE AROMATIC HYDROCARBONS (EPA 602/8020)

* RUN # NOV 26, 1991 09:37:59



TIMETABLE STOP

Closing signal file M:SIGNAL .BNC

RUN# 4 NOV 26, 1991 09:37:59

SIGNAL FILE: M:SIGNAL.BNC

EPA8020M

ESTD

RT	TYPE	AREA	WIDTH	HEIGHT
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3.883	PB	366094	.137	44456
6.499	BB	387750	.200	32291
7.128	BB	208464	.170	19467
7.589	BB	545349	.200	45373
8.848	BB	278847	.265	17522

RT	CAL#	PPM SOIL	NAME
2.156	1R	1.195	BENZENE
3.883	2R	1.221	TOLUENE
6.499	3R	1.201	CHLOROBENZ
7.128	4R	1.232	ETHYLBENZ
7.589	5R	2.342	M&P XYLENE
8.848	6R	1.250	O XYLENE

TOTAL AREA=2199369
MUL FACTOR=1.0000E+00

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