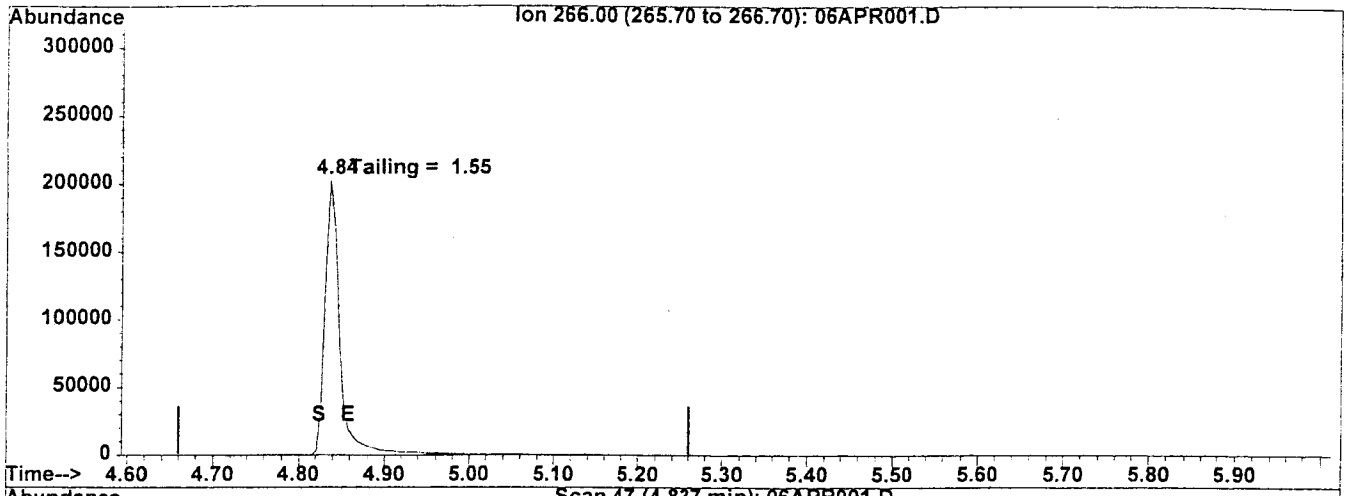
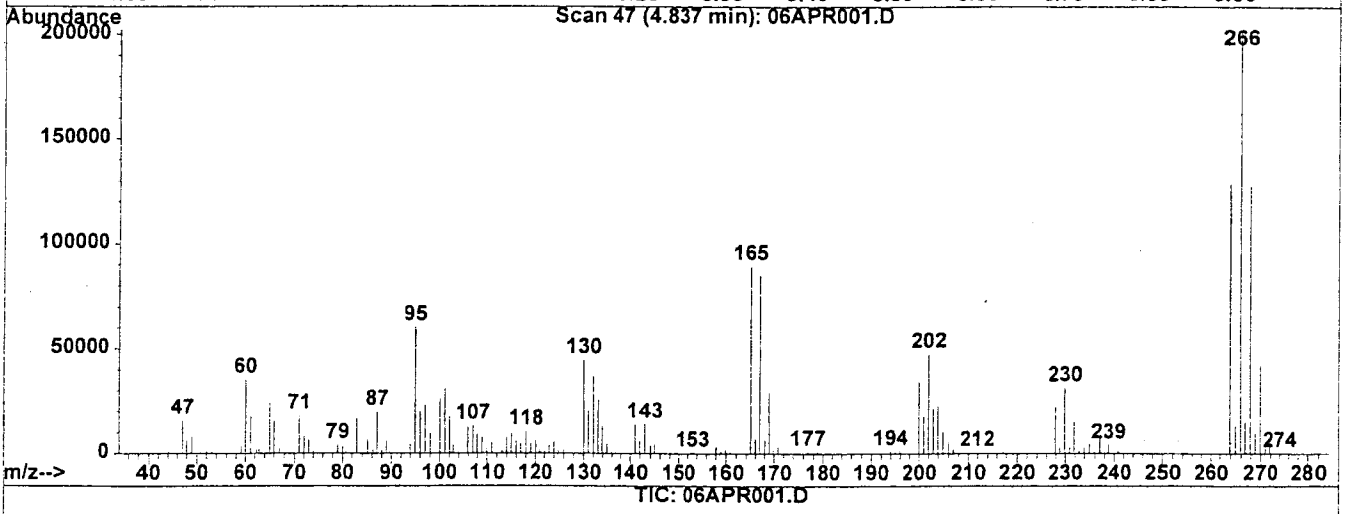
Quantitation Report

Data File : C:\HPCHEM\1\DATA\000406\06APR001.D Vial: 1
Acq On : 6 Apr 2000 12:22 pm Operator:
Sample : dftpp s032000A Inst : GC/MS H
Misc : Multiplr: 1.00
Quant Time: Apr 6 12:34 2000 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\DFTPP.M (RTE Integrator)
Title : bbbbb
Last Update : Thu Feb 10 14:38:12 2000
Response via : Single Level Calibration





TIC: 06APR001.D

(1) Pentachlorophenol

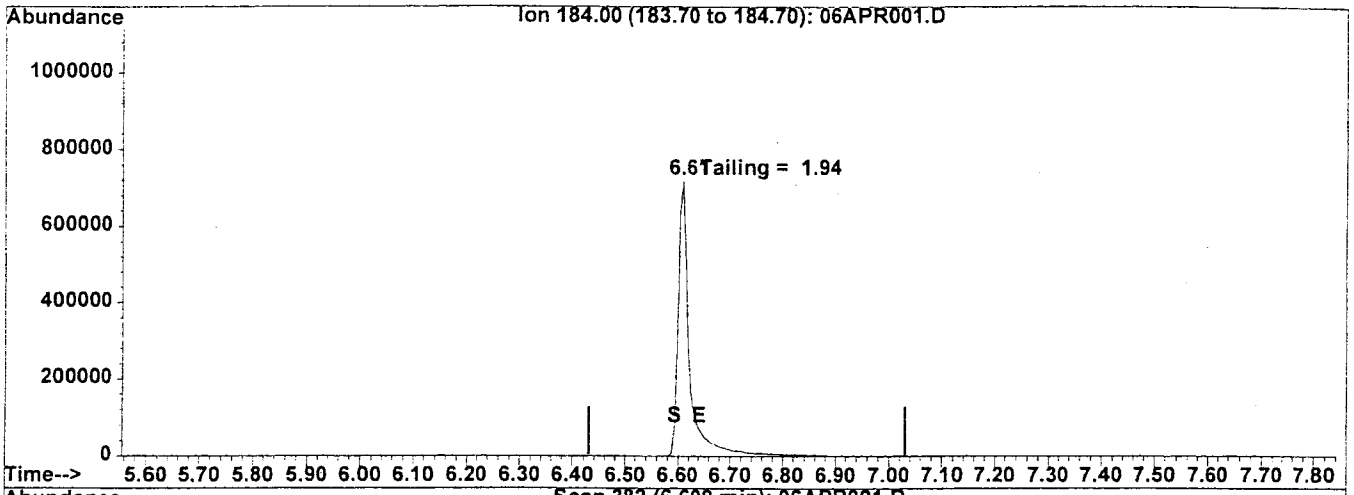
4.84min 0.00

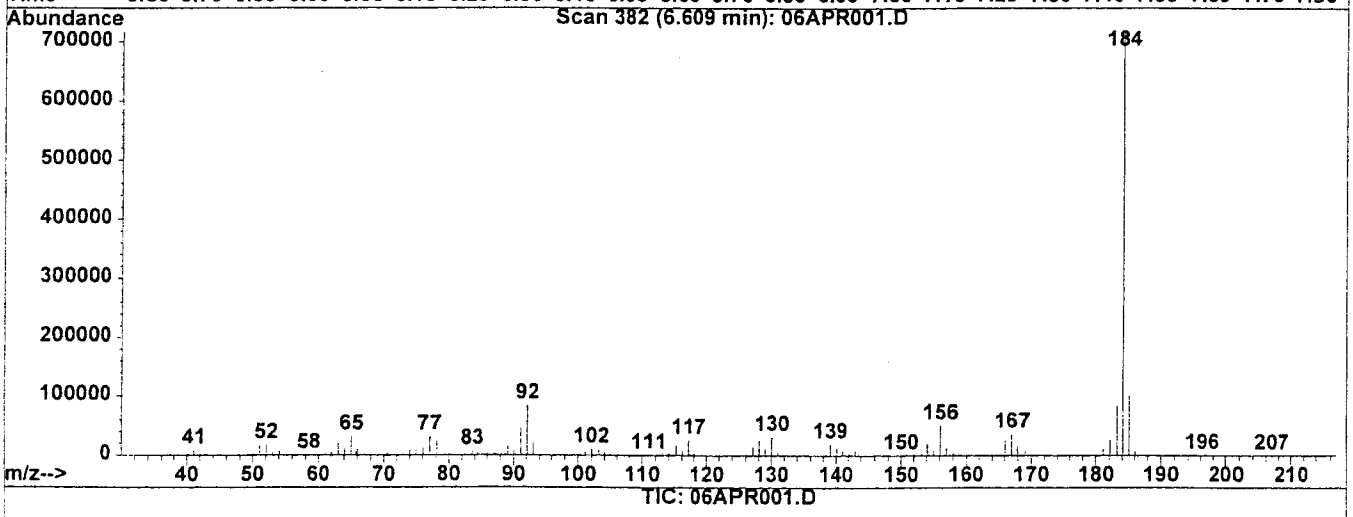
response 243677

Ion	Exp%	Act%
266.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Data File : C:\HPCHEM\1\DATA\000406\06APR001.D Vial: 1
Acq On : 6 Apr 2000 12:22 pm Operator:
Sample : dftpp s032000A Inst : GC/MS H
Misc : Multiplr: 1.00
Quant Time: Apr 6 12:34 2000 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\DFTPP.M (RTE Integrator)
Title : bbbbb
Last Update : Thu Feb 10 14:38:12 2000
Response via : Single Level Calibration





TIC: 06APR001.D

(3) Benzidine

6.61min 0.00

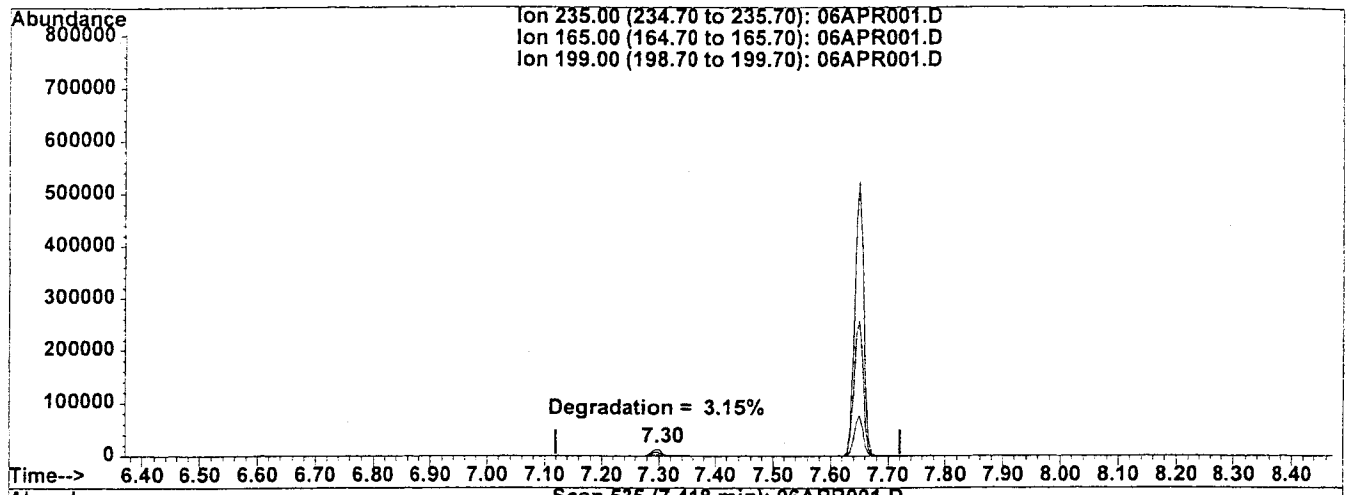
response 1130338

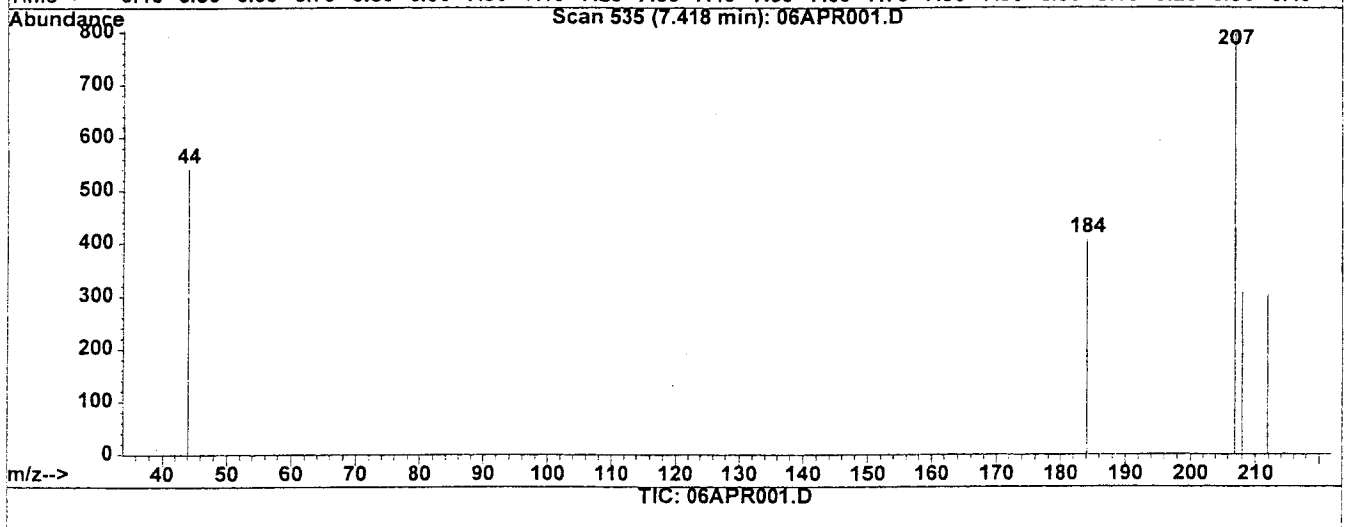
Ion	Exp%	Act%
184.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report

Data File : C:\HPCHEM\1\DATA\000406\06APR001.D Vial: 1
Acq On : 6 Apr 2000 12:22 pm Operator:
Sample : dftpp s032000A Inst : GC/MS H
Misc : Multiplr: 1.00
Quant Time: Apr 6 12:34 2000 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\DFTPP.M (RTE Integrator)
Title : bbbbb
Last Update : Thu Feb 10 14:38:12 2000
Response via : Single Level Calibration





(5) DDD

7.42min 0.00

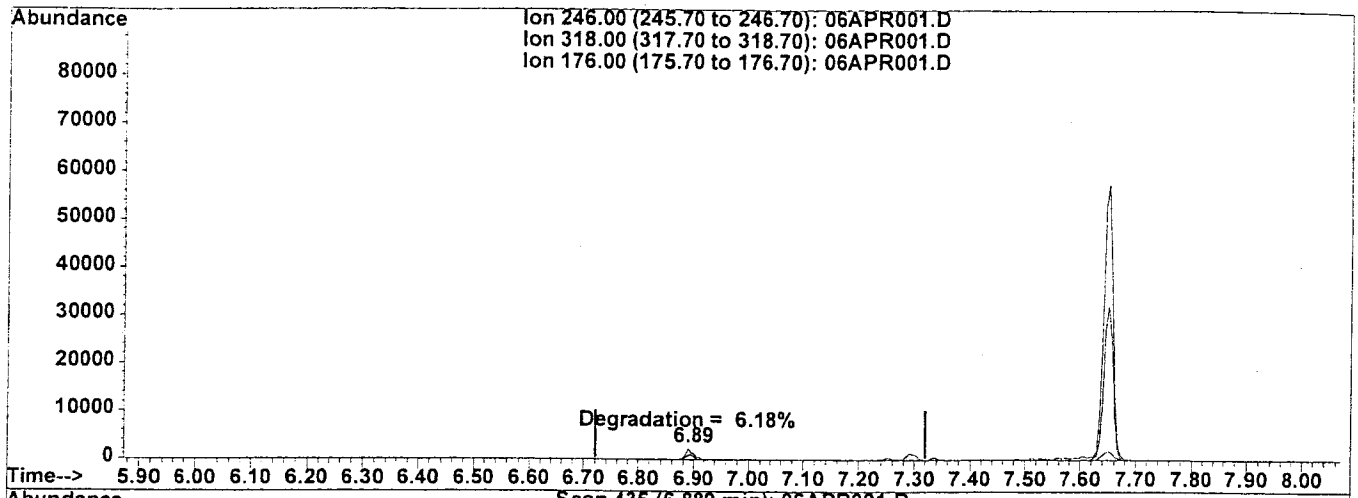
response 0

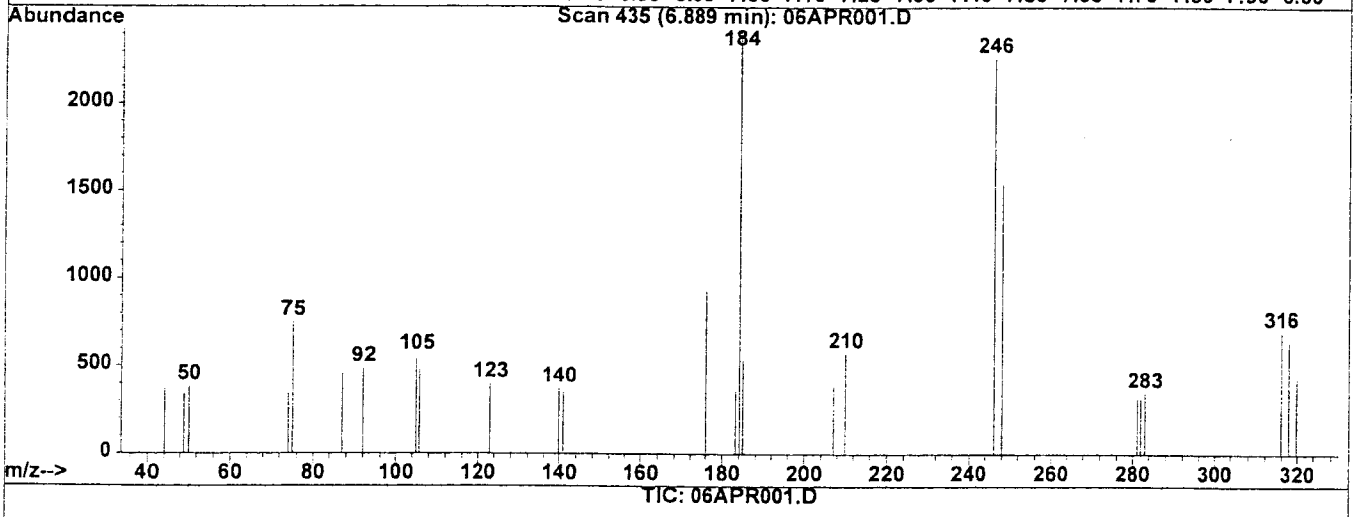
Ion	Exp%	Act%
235.00	100	0.00
165.00	61.80	0.00#
199.00	16.70	0.00#
0.00	0.00	0.00

Quantitation Report

Data File : C:\HPCHEM\1\DATA\000406\06APR001.D Vial: 1
Acq On : 6 Apr 2000 12:22 pm Operator:
Sample : dftpp s032000A Inst : GC/MS H
Misc : Multiplr: 1.00
Quant Time: Apr 6 12:34 2000 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\DFTPP.M (RTE Integrator)
Title : bbbbb
Last Update : Thu Feb 10 14:38:12 2000
Response via : Single Level Calibration





TIC: 06APR001.D

(6) DDE

6.89min 0.00

response 2191

Ion	Exp%	Act%
246.00	100	100
318.00	101.70	51.94#
176.00	69.20	47.56#
0.00	0.00	0.00

Data File : H:\HPCHEM\1\DATA\000406\06APR002.D Vial: 2
Acq On : 6 Apr 2000 12:41 pm Operator:
Sample : bna-80 s030300D Inst : GC/MS H
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 6 15:45 2000 Quant Results File: 000303.RES

Quant Method : C:\HPCHEM\1\METHODS\000303.M (RTE Integrator)
Title : BNA 8270/625 CALIBRATION
Last Update : Thu Feb 10 12:03:31 2000
Response via : Initial Calibration
DataAcq Meth : SVOA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.11	152	538389	40.00	mg/l	-0.04
19) Naphthalene-d8	6.46	136	1982085	40.00	mg/l	-0.03
35) Acenaphthene-d10	8.40	164	1154698	40.00	mg/l	-0.04
55) Phenanthrene-d10	10.03	188	1815729	40.00	mg/l	-0.04
68) Chrysene-d12	13.05	240	1476840	40.00	mg/l	-0.05
76) Perylene-d12	15.34	264	1103632	40.00	mg/l	-0.08
System Monitoring Compounds						
4) 2-Fluorophenol	3.90	112	1530906	78.87	mg/l	-0.04
Spiked Amount 100.000			Recovery = 78.87%			
6) Phenol-d6	4.80	99	1915744	80.58	mg/l	-0.04
Spiked Amount 100.000			Recovery = 80.58%			
20) Nitrobenzene-d5	5.72	82	1799992	83.76	mg/l	-0.04
Spiked Amount 100.000			Recovery = 83.76%			
40) 2-Fluorobiphenyl	7.66	172	2920133	79.96	mg/l	-0.04
Spiked Amount 100.000			Recovery = 79.96%			
59) 2,4,6-Tribromophenol	9.28	330	416388	78.61	mg/l	-0.04
Spiked Amount 100.000			Recovery = 78.61%			
70) p-Terphenyl-d14	11.83	244	3053358	78.10	mg/l	-0.04
Spiked Amount 100.000			Recovery = 78.10%			
Target Compounds						Qvalue
2) Pyridine	2.61	52	1476042	88.59	mg/l	94
3) N-Nitrosodimethylamine	2.64	74	1076115	83.80	mg/l	84
5) Aniline	4.82	93	2122874m	73.85	mg/l	
7) Phenol	4.81	94	2066196m	82.28	mg/l	
8) Bis(2-Chloroethyl) Ether	4.89	93	1693937m	82.58	mg/l	
9) 2-Chlorophenol	4.93	128	1440331	77.71	mg/l	97
10) 1,3-Dichlorobenzene	5.07	146	1624764m	80.53	mg/l	
11) 1,4-Dichlorobenzene	5.13	146	1620940	81.74	mg/l	99
12) Benzyl Alcohol	5.28	79	1349533	75.97	mg/l	95
13) 1,2-Dichlorobenzene	5.32	146	1523630	80.59	mg/l	99
14) 2-Methylphenol	5.41	108	1362868	77.31	mg/l #	45
15) Bis(2-Chloroisopropyl) Eth	5.44	45	1656086m	76.80	mg/l	
16) 3/4-Methylphenol	5.56	107	1595583	77.97	mg/l #	48
17) N-Nitroso-di-n-propylamine	5.60	70	1148553	83.27	mg/l	94
18) Hexachloroethane	5.63	117	674356	80.71	mg/l	97
21) Nitrobenzene	5.74	77	1816220	85.39	mg/l	97
22) Isophorone	5.99	82	3026547	83.07	mg/l	83
23) 2-Nitrophenol	6.07	139	811114	79.90	mg/l	87

(#) = qualifier out of range (m) = manual integration

Data File : H:\HPCHEM\1\DATA\000406\06APR002.D Vial: 2
Acq On : 6 Apr 2000 12:41 pm Operator:
Sample : bna-80 s030300D Inst : GC/MS H
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 6 15:45 2000 Quant Results File: 000303.RES

Quant Method : C:\HPCHEM\1\METHODS\000303.M (RTE Integrator)
Title : BNA 8270/625 CALIBRATION
Last Update : Thu Feb 10 12:03:31 2000
Response via : Initial Calibration
DataAcq Meth : SVOA

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
24)	2,4-Dimethylphenol	6.12	107	1497911	83.91	mg/l		90
25)	Benzoic Acid	6.31	105	1210185	80.80	mg/l	#	50
26)	Bis(2-Chloroethoxy) Methan	6.22	93	1858540	82.66	mg/l		99
27)	2,4-Dichlorophenol	6.33	162	1144930	80.35	mg/l		99
28)	1,2,4-Trichlorobenzene	6.41	180	1246523	79.43	mg/l		100
29)	Naphthalene	6.48	128	3955165	89.59	mg/l		98
30)	4-Chloroaniline	6.56	127	1332435	73.67	mg/l		95
31)	Hexachloro-1,3-Butadiene	6.67	225	713056	79.84	mg/l		99
32)	4-Chloro-3-Methylphenol	7.09	107	1345516	84.64	mg/l		97
33)	2-Methylnaphthalene	7.23	142	2728415	83.52	mg/l		100
34)	1-Methylnaphthalene	7.35	142	2535837	84.11	mg/l		96
36)	Hexachlorocyclopentadiene	7.48	237	647148	87.91	mg/l		99
37)	2,4,6-Trichlorophenol	7.57	196	793534m	74.29	mg/l		
38)	2,4,5-Trichlorophenol	7.61	196	800323	71.81	mg/l		96
39)	2-Chloronaphthalene	7.76	162	2496048	78.66	mg/l		98
41)	2-Nitroaniline	7.92	65	1019078	82.59	mg/l		93
42)	Dimethyl Phthalate	8.16	163	2856697	78.51	mg/l		99
43)	Acenaphthylene	8.23	152	3888213	83.51	mg/l		98
44)	3-Nitroaniline	8.39	138	370870	72.46	mg/l		71
45)	Acenaphthene	8.43	153	2509431	79.13	mg/l		95
46)	2,4-Dinitrophenol	8.49	184	379514	81.73	mg/l		80
47)	4-Nitrophenol	8.58	139	455202m	67.48	mg/l		
48)	Dibenzofuran	8.61	168	3396456	82.02	mg/l		92
49)	2,4-Dinitrotoluene	8.66	165	892116	80.20	mg/l		92
50)	2,6-Dinitrotoluene	8.24	165	645222	78.98	mg/l		90
51)	Diethyl Phthalate	8.95	149	2842472	80.66	mg/l		99
52)	4-Chlorophenyl-Phenyl Ethe	9.00	204	1274494	78.97	mg/l		100
53)	Fluorene	8.99	166	2790943	81.70	mg/l		100
54)	4-Nitroaniline	9.07	138	447758	77.56	mg/l		72
56)	Azobenzene	9.17	77	3383414	80.34	mg/l		82
57)	4,6-Dinitro-2-Methylphenol	9.12	198	535104	80.85	mg/l	#	14
58)	N-Nitrosodiphenylamine	9.14	169	1937824	81.50	mg/l		99
60)	4-Bromophenyl-Phenyl Ether	9.53	248	833591	77.62	mg/l		99
61)	Hexachlorobenzene	9.69	284	894760	79.42	mg/l		99
62)	Pentachlorophenol	9.89	266	500127	74.09	mg/l		99
63)	Phenanthrene	10.06	178	3846385m	81.58	mg/l		
64)	Anthracene	10.11	178	3915046	83.59	mg/l		99
65)	Di-n-Butyl Phthalate	10.75	149	4421451	84.49	mg/l		99
66)	Fluoranthene	11.39	202	3897532	81.53	mg/l		99
67)	Benzidine	11.54	184	412550	41.89	mg/l		98

(#) = qualifier out of range (m) = manual integration

Data File : H:\HPCHEM\1\DATA\000406\06APR002.D Vial: 2
Acq On : 6 Apr 2000 12:41 pm Operator:
Sample : bna-80 s030300D Inst : GC/MS H
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 6 15:45 2000 Quant Results File: 000303.RES

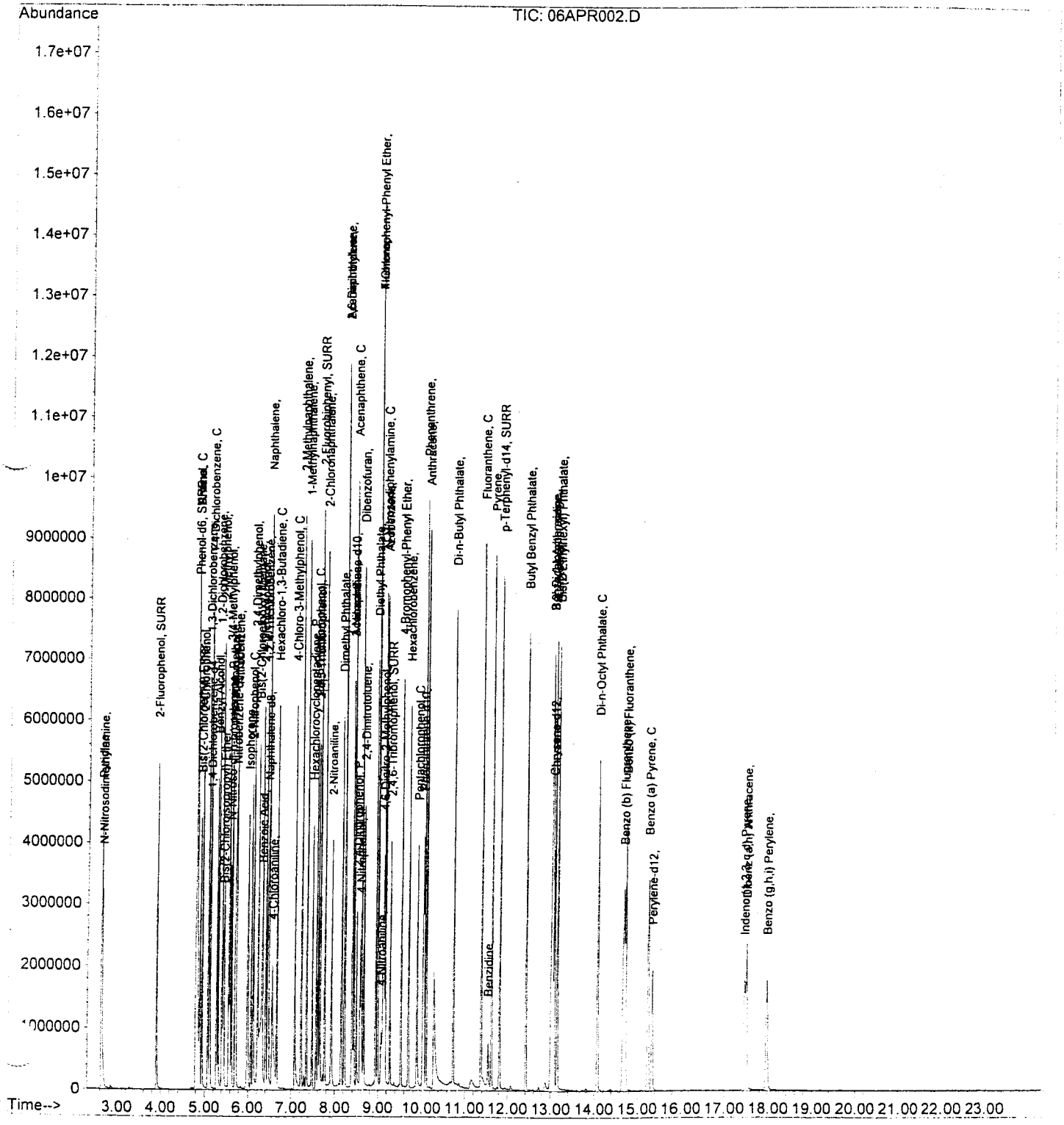
Quant Method : C:\HPCHEM\1\METHODS\000303.M (RTE Integrator)
Title : BNA 8270/625 CALIBRATION
Last Update : Thu Feb 10 12:03:31 2000
Response via : Initial Calibration
DataAcq Meth : SVOA

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
69) Pyrene	11.64	202	3926702	77.63 mg/l	98
71) Butyl Benzyl Phthalate	12.41	149	1972785	77.28 mg/l	97
72) 3,3'-Dichlorobenzidine	13.02	252	614219	58.28 mg/l	95
73) Benzo (a) Anthracene	13.03	228	3540820m	76.95 mg/l	
74) Bis(2-Ethylhexyl) Phthalat	13.16	149	2640399	76.26 mg/l	85
75) Chrysene	13.09	228	3298395	77.97 mg/l	98
77) Di-n-Octyl Phthalate	14.09	149	4164972	83.53 mg/l	99
78) Benzo (b) Fluoranthene	14.68	252	3200645m	76.30 mg/l	
79) Benzo (k) Fluoranthene	14.73	252	2779777	79.90 mg/l	99
80) Benzo (a) Pyrene	15.24	252	2741169	77.57 mg/l	97
81) Indeno (1,2,3-c,d) Pyrene	17.45	276	2363954m	62.70 mg/l	
82) Dibenz (a,h) Anthracene	17.50	278	1979177	62.48 mg/l	99
83) Benzo (g,h,i) Perylene	17.98	276	1822723	59.91 mg/l	88

(#) = qualifier out of range (m) = manual integration

Data File : H:\HPCHEM\1\DATA\000406\06APR002.D Vial: 2
Acq On : 6 Apr 2000 12:41 pm Operator:
Sample : bna-80 s030300D Inst : GC/MS H
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 6 15:45 2000 Quant Results File: 000303.RES

Method : H:\HPCHEM\1\METHODS\000303.M (RTE Integrator)
Title : BNA 8270/625 CALIBRATION
Last Update : Thu Feb 10 12:03:31 2000
Response via : Initial Calibration



Data File : H:\HPCHEM\1\DATA\000406\06APR002.D Vial: 2
Acq On : 6 Apr 2000 12:41 pm Operator:
Sample : bna-80 s030300D Inst : GC/MS H
Misc : Multiplr: 1.00
MS Integration Params: rteint.p

Method : H:\HPCHEM\1\METHODS\000303.M (RTE Integrator)
Title : BNA 8270/625 CALIBRATION
Last Update : Thu Feb 10 12:03:31 2000
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1		1,4-Dichlorobenzene-d4	1.000	1.000	0.0	71	-0.04
2		Pyridine	1.238	1.371	-10.7	78	-0.07
3		N-Nitrosodimethylamine	0.954	0.999	-4.7	74	-0.07
4	SURR	2-Fluorophenol	1.442	1.422	1.4	68	-0.04
5		Aniline	2.136	1.972	7.7	65	-0.04
6	SURR	Phenol-d6	1.766	1.779	-0.7	71	-0.04
7	C	Phenol	1.866	1.919	-2.8#	72	-0.04
8		Bis(2-Chloroethyl) Ether	1.524	1.573	-3.2	72	-0.04
9		2-Chlorophenol	1.377	1.338	2.8	68	-0.04
10		1,3-Dichlorobenzene	1.499	1.509	-0.7	70	-0.04
11	C	1,4-Dichlorobenzene	1.473	1.505	-2.2#	71	-0.04
12		Benzyl Alcohol	1.320	1.253	5.1	67	-0.05
13		1,2-Dichlorobenzene	1.405	1.415	-0.7	70	-0.04
14		2-Methylphenol	1.310	1.266	3.4	68	-0.04
15		Bis(2-Chloroisopropyl) Ethe	1.602	1.538	4.0	68	-0.04
16		3/4-Methylphenol	1.520	1.482	2.5	68	-0.04
17	P	N-Nitroso-di-n-propylamine	1.025	1.067	-4.1	73	-0.06
18		Hexachloroethane	0.621	0.626	-0.8	70	-0.04
19		Naphthalene-d8	1.000	1.000	0.0	71	-0.03
20	SURR	Nitrobenzene-d5	0.434	0.454	-4.6	74	-0.04
21		Nitrobenzene	0.429	0.458	-6.8	75	-0.04
22		Isophorone	0.735	0.763	-3.8	74	-0.05
23	C	2-Nitrophenol	0.205	0.205	0.0	70	-0.04
24		2,4-Dimethylphenol	0.360	0.378	-5.0	71	-0.04
25		Benzoic Acid	0.297	0.305	-2.7	69	-0.07
26		Bis(2-Chloroethoxy) Methane	0.454	0.469	-3.3	72	-0.04
27	C	2,4-Dichlorophenol	0.288	0.289	-0.3#	70	-0.04
28		1,2,4-Trichlorobenzene	0.317	0.314	0.9	69	-0.03
29		Naphthalene	0.891	0.998	-12.0	77	-0.04
30		4-Chloroaniline	0.365	0.336	7.9	64	-0.03
31	C	Hexachloro-1,3-Butadiene	0.180	0.180	0.0	70	-0.03
32	C	4-Chloro-3-Methylphenol	0.321	0.339	-5.6#	73	-0.03
33		2-Methylnaphthalene	0.659	0.688	-4.4	73	-0.04
34		1-Methylnaphthalene	0.608	0.640	-5.3	73	-0.04
35		Acenaphthene-d10	1.000	1.000	0.0	76	-0.04
36	P	Hexachlorocyclopentadiene	0.217	0.280	-29.0#	93	-0.04
37	C	2,4,6-Trichlorophenol	0.370	0.344	7.0#	70	-0.04
38		2,4,5-Trichlorophenol	0.386	0.347	10.1	66	-0.04

(#) = Out of Range

Data File : H:\HPCHEM\1\DATA\000406\06APR002.D Vial: 2
Acq On : 6 Apr 2000 12:41 pm Operator:
Sample : bna-80 s030300D Inst : GC/MS H
Misc : Multiplr: 1.00
MS Integration Params: rteint.p

Method : H:\HPCHEM\1\METHODS\000303.M (RTE Integrator)
Title : BNA 8270/625 CALIBRATION
Last Update : Thu Feb 10 12:03:31 2000
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
39		2-Chloronaphthalene	1.099	1.081	1.6	73	-0.04
40	SURR	2-Fluorobiphenyl	1.265	1.264	0.1	74	-0.04
41		2-Nitroaniline	0.427	0.441	-3.3	78	-0.04
42		Dimethyl Phthalate	1.260	1.237	1.8	74	-0.04
43		Acenaphthylene	1.613	1.684	-4.4	78	-0.04
44		3-Nitroaniline	0.177	0.161	9.0	86	-0.04
45	C	Acenaphthene	1.099	1.087	1.1#	74	-0.04
46	P	2,4-Dinitrophenol	0.143	0.164	-14.7	81	-0.04
47	P	4-Nitrophenol	0.234	0.197	15.8	64	-0.04
48		Dibenzofuran	1.434	1.471	-2.6	76	-0.04
49		2,4-Dinitrotoluene	0.385	0.386	-0.3	75	-0.05
50		2,6-Dinitrotoluene	0.283	0.279	1.4	73	-0.04
51		Diethyl Phthalate	1.221	1.231	-0.8	76	-0.05
52		4-Chlorophenyl-Phenyl Ether	0.559	0.552	1.3	74	-0.04
		Fluorene	1.183	1.209	-2.2	77	-0.05
54		4-Nitroaniline	0.200	0.194	3.0	75	-0.04
55		Phenanthrene-d10	1.000	1.000	0.0	78	-0.04
56		Azobenzene	0.928	0.932	-0.4	73	-0.04
57		4,6-Dinitro-2-Methylphenol	0.138	0.147	-6.5	80	-0.05
58	C	N-Nitrosodiphenylamine	0.524	0.534	-1.9#	79	-0.04
59	SURR	2,4,6-Tribromophenol	0.117	0.115	1.7	75	-0.04
60		4-Bromophenyl-Phenyl Ether	0.237	0.230	3.0	73	-0.04
61		Hexachlorobenzene	0.248	0.246	0.8	76	-0.04
62	C	Pentachlorophenol	0.149	0.138	7.4#	70	-0.04
63		Phenanthrene	1.039	1.059	-1.9	78	-0.04
64		Anthracene	1.032	1.078	-4.5	79	-0.04
65		Di-n-Butyl Phthalate	1.153	1.218	-5.6	80	-0.04
66	C	Fluoranthene	1.053	1.073	-1.9#	78	-0.04
67		Benzidine	0.190	0.114	40.0#	47#	-0.04
68		Chrysene-d12	1.000	1.000	0.0	84	-0.05
69		Pyrene	1.370	1.329	3.0	79	-0.05
70	SURR	p-Terphenyl-d14	1.059	1.034	2.4	80	-0.04
71		Butyl Benzyl Phthalate	0.691	0.668	3.3	79	-0.04
72		3,3'-Dichlorobenzidine	0.285	0.208	27.0#	61	-0.05
73		Benzo (a) Anthracene	1.246	1.199	3.8	79	-0.05
74		Bis(2-Ethylhexyl) Phthalate	0.938	0.894	4.7	78	-0.05
75		Chrysene	1.146	1.117	2.5	80	-0.06
76		Perylene-d12	1.000	1.000	0.0	78	0.08

(#) = Out of Range

Data File : H:\HPCHEM\1\DATA\000406\06APR002.D Vial: 2
Acq On : 6 Apr 2000 12:41 pm Operator:
Sample : bna-80 s030300D Inst : GC/MS H
Misc : Multiplr: 1.00
MS Integration Params: rteint.p

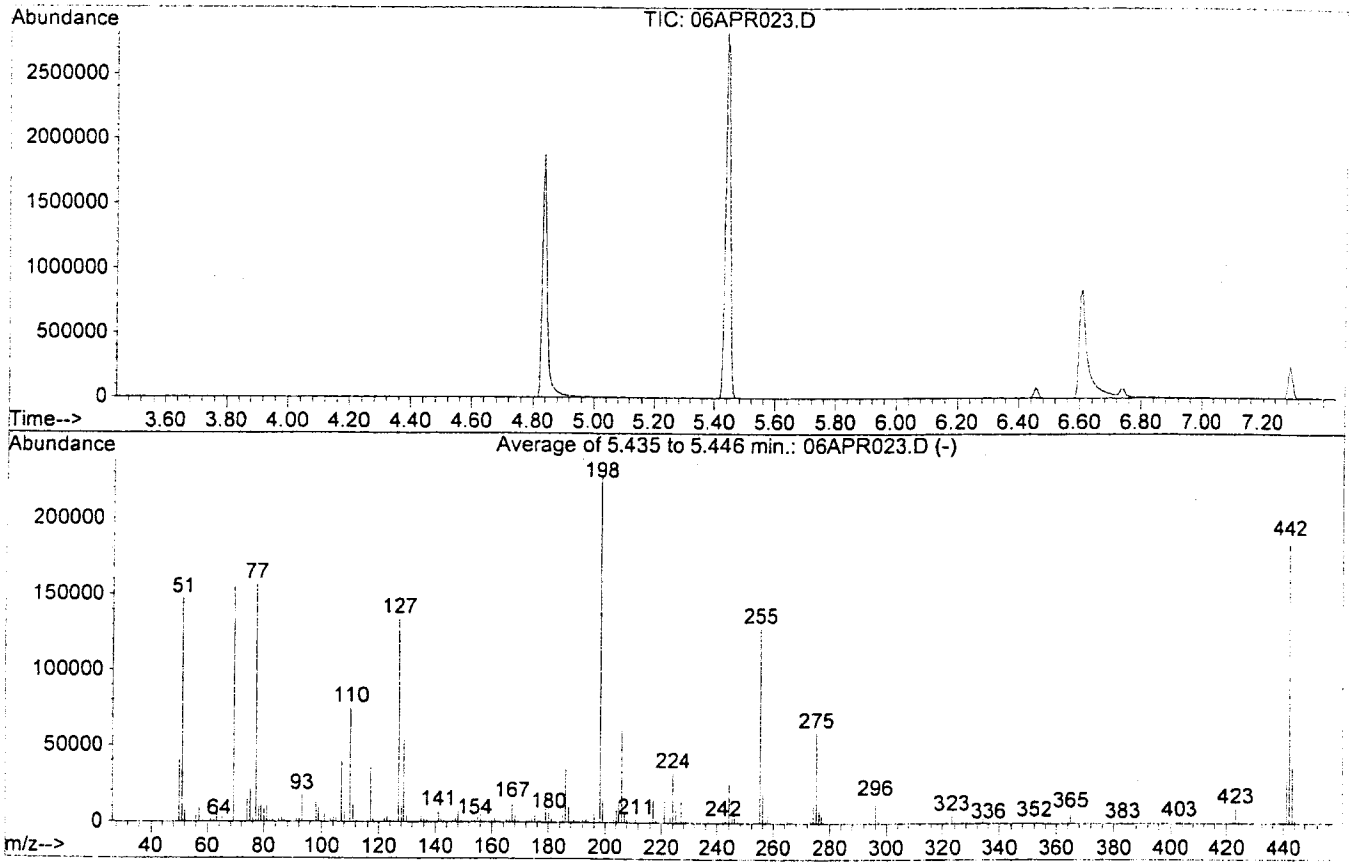
Method : H:\HPCHEM\1\METHODS\000303.M (RTE Integrator)
Title : BNA 8270/625 CALIBRATION
Last Update : Thu Feb 10 12:03:31 2000
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
77	C	Di-n-Octyl Phthalate	1.807	1.887	-4.4#	78	-0.07
78		Benzo (b) Fluoranthene	1.520	1.450	4.6	73	-0.09
79		Benzo (k) Fluoranthene	1.261	1.259	0.2	75	-0.08
80	C	Benzo (a) Pyrene	1.281	1.242	3.0#	73	-0.09
81		Indeno (1,2,3-c,d) Pyrene	1.367	1.071	21.7	59	-0.12
82		Dibenz (a,h) Anthracene	1.148	0.897	21.9	59	-0.13
83		Benzo (g,h,i) Perylene	1.103	0.826	25.1#	57	-0.13

DFTPP

Data File : H:\HPCHEM\1\DATA\000406\06APR023.D Vial: 1
Acq On : 7 Apr 2000 12:26 am Operator:
Sample : dftpp s032000A Inst : GC/MS H
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Method : H:\HPCHEM\1\METHODS\DFTPP.M (RTE Integrator)
Title : bbbbb



AutoFind: Scans 160, 161, 162; Background Corrected with Scan 154

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	64.5	147275	FAIL*
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	68.2	155701	PASS
70	69	0.00	2	0.4	582	PASS
127	198	40	60	58.7	134112	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	228395	PASS
199	198	5	9	6.5	14959	PASS
275	198	10	30	26.1	59544	PASS
365	198	1	100	3.2	7210	PASS
441	443	0.01	100	76.9	28033	PASS
442	198	40	100	81.9	186947	PASS
443	442	17	23	19.5	36477	PASS

Data File : H:\HPCHEM\1\DATA\000406\06APR024.D Vial: 2
Acq On : 7 Apr 2000 12:45 am Operator:
Sample : bna-80 s030300D Inst : GC/MS H
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 10 11:12 2000 Quant Results File: 000303.RES

Quant Method : H:\HPCHEM\1\METHODS\000303.M (RTE Integrator)
Title : BNA 8270/625 CALIBRATION
Last Update : Thu Feb 10 12:03:31 2000
Response via : Initial Calibration
DataAcq Meth : SVOA

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.11	152	487763	40.00	mg/l		-0.04
19) Naphthalene-d8	6.45	136	1797623	40.00	mg/l		-0.03
35) Acenaphthene-d10	8.40	164	1022433	40.00	mg/l		-0.03
55) Phenanthrene-d10	10.03	188	1575401	40.00	mg/l		-0.04
68) Chrysene-d12	13.05	240	1095414	40.00	mg/l		-0.05
76) Perylene-d12	15.33	264	664993	40.00	mg/l		-0.08
System Monitoring Compounds							
4) 2-Fluorophenol	3.90	112	1374789	78.18	mg/l		-0.04
Spiked Amount 100.000			Recovery = 78.18%				
6) Phenol-d6	4.80	99	1762271	81.81	mg/l		-0.04
Spiked Amount 100.000			Recovery = 81.81%				
20) Nitrobenzene-d5	5.72	82	1651368	84.73	mg/l		-0.04
Spiked Amount 100.000			Recovery = 84.73%				
40) 2-Fluorobiphenyl	7.66	172	2640957	81.67	mg/l		-0.04
Spiked Amount 100.000			Recovery = 81.67%				
59) 2,4,6-Tribromophenol	9.28	330	358709	78.05	mg/l		-0.04
Spiked Amount 100.000			Recovery = 78.05%				
70) p-Terphenyl-d14	11.82	244	2465139	85.01	mg/l		-0.05
Spiked Amount 100.000			Recovery = 85.01%				
Target Compounds							Qvalue
2) Pyridine	2.61	52	1334030m	88.37	mg/l		
3) N-Nitrosodimethylamine	2.63	74	984364	84.61	mg/l		86
5) Aniline	4.82	93	1918116m	73.66	mg/l		
7) Phenol	4.81	94	1901035m	83.56	mg/l		
8) Bis(2-Chloroethyl) Ether	4.89	93	1589971m	85.56	mg/l		
9) 2-Chlorophenol	4.93	128	1317206	78.44	mg/l		96
10) 1,3-Dichlorobenzene	5.07	146	1471033m	80.48	mg/l		
11) 1,4-Dichlorobenzene	5.13	146	1465237	81.56	mg/l		99
12) Benzyl Alcohol	5.28	79	1156605	71.86	mg/l		95
13) 1,2-Dichlorobenzene	5.32	146	1386632	80.96	mg/l		99
14) 2-Methylphenol	5.41	108	1221970	76.51	mg/l	#	46
15) Bis(2-Chloroisopropyl) Eth	5.44	45	1546433m	79.16	mg/l		
16) 3/4-Methylphenol	5.56	107	1440247	77.68	mg/l	#	48
17) N-Nitroso-di-n-propylamine	5.60	70	1036870	82.98	mg/l		92
18) Hexachloroethane	5.63	117	588330	77.72	mg/l		97
21) Nitrobenzene	5.74	77	1657219	85.91	mg/l		96
22) Isophorone	5.99	82	2756712	83.42	mg/l		83
23) 2-Nitrophenol	6.07	139	732152	79.52	mg/l		88

(#) = qualifier out of range (m) = manual integration

Data File : H:\HPCHEM\1\DATA\000406\06APR024.D Vial: 2
Acq On : 7 Apr 2000 12:45 am Operator:
Sample : bna-80 s030300D Inst : GC/MS H
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 10 11:12 2000 Quant Results File: 000303.RES

Quant Method : H:\HPCHEM\1\METHODS\000303.M (RTE Integrator)
Title : BNA 8270/625 CALIBRATION
Last Update : Thu Feb 10 12:03:31 2000
Response via : Initial Calibration
DataAcq Meth : SVOA

Compound	R.T.	QIon	Response	Conc Unit		Qvalue
24) 2,4-Dimethylphenol	6.12	107	1307203	80.74 mg/l	#	96
25) Benzoic Acid	6.31	105	1150553	84.70 mg/l	#	49
26) Bis(2-Chloroethoxy) Methan	6.22	93	1688228	82.79 mg/l		100
27) 2,4-Dichlorophenol	6.33	162	1039286	80.42 mg/l		99
28) 1,2,4-Trichlorobenzene	6.41	180	1125892	79.10 mg/l		100
29) Naphthalene	6.48	128	3631596	90.71 mg/l		99
30) 4-Chloroaniline	6.57	127	1184113	72.18 mg/l		94
31) Hexachloro-1,3-Butadiene	6.67	225	640511	79.08 mg/l		100
32) 4-Chloro-3-Methylphenol	7.09	107	1237737	85.85 mg/l		94
33) 2-Methylnaphthalene	7.23	142	2489076	84.02 mg/l		100
34) 1-Methylnaphthalene	7.35	142	2302944	84.23 mg/l		96
36) Hexachlorocyclopentadiene	7.48	237	270746	41.53 mg/l		100
37) 2,4,6-Trichlorophenol	7.57	196	717167m	75.83 mg/l		
38) 2,4,5-Trichlorophenol	7.61	196	719442	72.90 mg/l		97
39) 2-Chloronaphthalene	7.76	162	2262951	80.54 mg/l		99
41) 2-Nitroaniline	7.92	65	910168	83.31 mg/l		93
42) Dimethyl Phthalate	8.16	163	2566138	79.65 mg/l		99
43) Acenaphthylene	8.23	152	3098305	75.15 mg/l		99
44) 3-Nitroaniline	8.39	138	399540	88.15 mg/l		70
45) Acenaphthene	8.43	153	2252254	80.21 mg/l		94
46) 2,4-Dinitrophenol	8.49	184	292727	71.20 mg/l		78
47) 4-Nitrophenol	8.59	139	366299m	61.33 mg/l		
48) Dibenzofuran	8.61	168	3051820	83.23 mg/l		92
49) 2,4-Dinitrotoluene	8.67	165	782776	79.48 mg/l		93
50) 2,6-Dinitrotoluene	8.23	165	579680	80.14 mg/l		88
51) Diethyl Phthalate	8.94	149	2526225	80.96 mg/l		98
52) 4-Chlorophenyl-Phenyl Ethe	9.00	204	1114792	78.01 mg/l		99
53) Fluorene	9.00	166	2473602	81.77 mg/l		100
54) 4-Nitroaniline	9.07	138	287063	56.15 mg/l		90
56) Azobenzene	9.17	77	3075862	84.17 mg/l		83
57) 4,6-Dinitro-2-Methylphenol	9.12	198	424969	74.01 mg/l	#	17
58) N-Nitrosodiphenylamine	9.14	169	1238402	60.03 mg/l		99
60) 4-Bromophenyl-Phenyl Ether	9.53	248	721609	77.45 mg/l		99
61) Hexachlorobenzene	9.69	284	768519	78.62 mg/l		98
62) Pentachlorophenol	9.89	266	400418	68.37 mg/l		99
63) Phenanthrene	10.06	178	3339339m	81.63 mg/l		
64) Anthracene	10.11	178	3396751	83.59 mg/l		99
65) Di-n-Butyl Phthalate	10.75	149	3853192	84.86 mg/l		99
66) Fluoranthene	11.38	202	3267936	78.79 mg/l		100
67) Benzidine	11.54	184	228584	26.75 mg/l		98

(#) = qualifier out of range (m) = manual integration

Data File : H:\HPCHEM\1\DATA\000406\06APR024.D Vial: 2
Acq On : 7 Apr 2000 12:45 am Operator:
Sample : bna-80 s030300D Inst : GC/MS H
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 10 11:12 2000 Quant Results File: 000303.RES

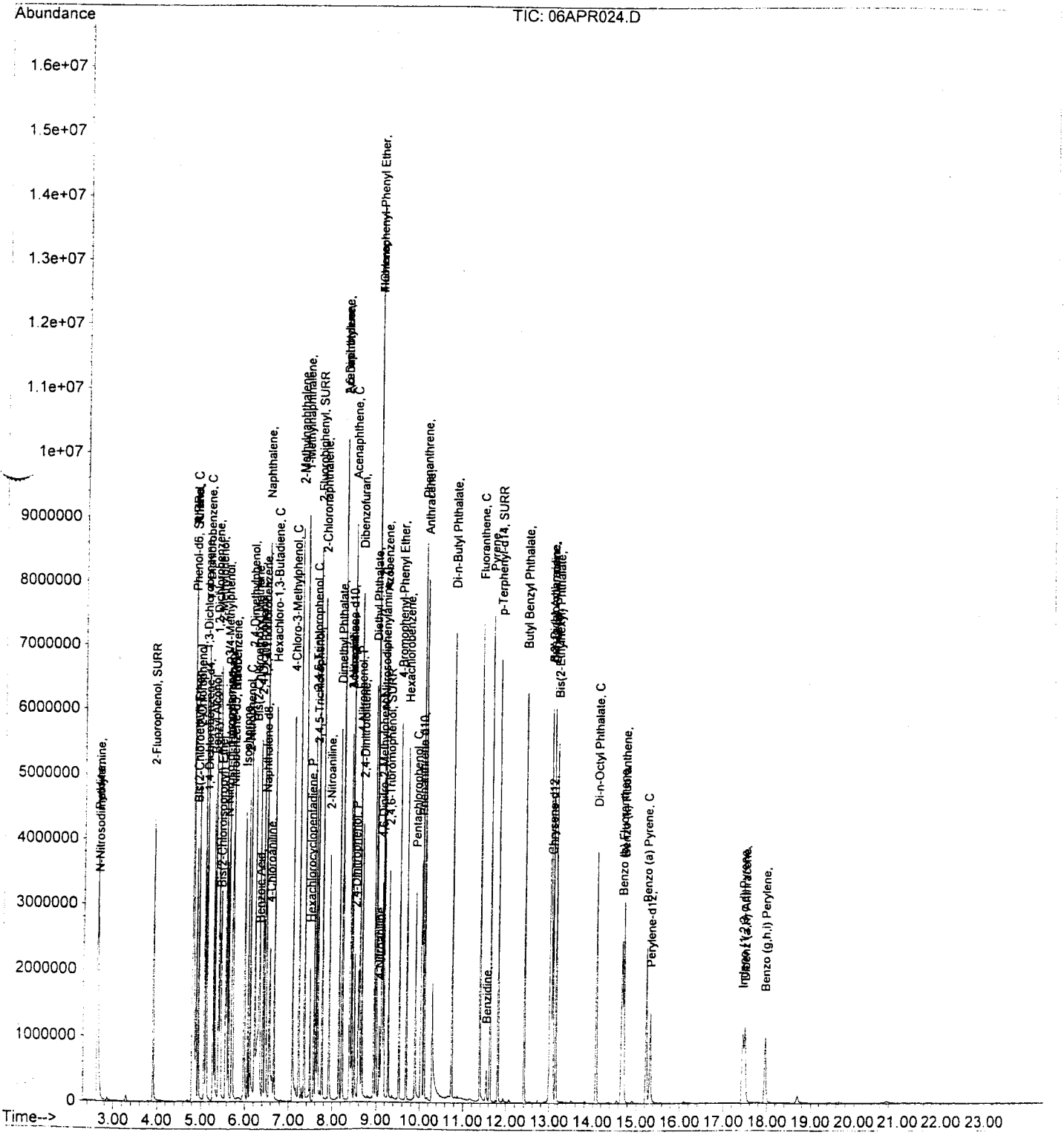
Quant Method : H:\HPCHEM\1\METHODS\000303.M (RTE Integrator)
Title : BNA 8270/625 CALIBRATION
Last Update : Thu Feb 10 12:03:31 2000
Response via : Initial Calibration
DataAcq Meth : SVOA

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
69)	Pyrene	11.63	202	3251942	86.67 mg/l	98
71)	Butyl Benzyl Phthalate	12.41	149	1566069	82.71 mg/l	96
72)	3,3'-Dichlorobenzidine	13.02	252	618627	79.13 mg/l	96
73)	Benzo (a) Anthracene	13.02	228	2653634m	77.75 mg/l	
74)	Bis(2-Ethylhexyl) Phthalat	13.16	149	1982081	77.18 mg/l	86
75)	Chrysene	13.09	228	2460108	78.40 mg/l	98
77)	Di-n-Octyl Phthalate	14.08	149	2899535	96.51 mg/l	98
78)	Benzo (b) Fluoranthene	14.67	252	2154284m	85.23 mg/l	
79)	Benzo (k) Fluoranthene	14.72	252	1877801	89.57 mg/l	97
80)	Benzo (a) Pyrene	15.23	252	1689336	79.34 mg/l	97
81)	Indeno (1,2,3-c,d) Pyrene	17.43	276	1224507	53.90 mg/l	95
82)	Dibenz (a,h) Anthracene	17.49	278	1037984	54.38 mg/l	98
83)	Benzo (g,h,i) Perylene	17.96	276	932419	50.87 mg/l	88

(#) = qualifier out of range (m) = manual integration

Data File : H:\HPCHEM\1\DATA\000406\06APR024.D Vial: 2
Acq On : 7 Apr 2000 12:45 am Operator:
Sample : bna-80 s030300D Inst : GC/MS H
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 10 11:12 2000 Quant Results File: 000303.RES

Method : H:\HPCHEM\1\METHODS\000303.M (RTE Integrator)
Title : BNA 8270/625 CALIBRATION
Last Update : Thu Feb 10 12:03:31 2000
Response via : Initial Calibration



GEOMATRIX

Instrument Run Log

Geomatrix Consultants

INSTRUMENT LOGBOOK

Calscience Environmental Laboratories, Inc.

Date Loaded	Pos	Directory	Data File	CEL ID #	Mtx	Amount Loaded	pH <2	Lot # IS/SS	Lot # Cal. Std.	By	Comments
3/1/00	1	000301	01Mar001	DFTPP	N/A	1 µl	N/A		S092199A	LL	
	2		2	BNA ~~-80~~ 160					S122899C		
	3		3	BNA - 120					d		
	4		4	-80					e		Not used. Seq
	5		5	-50					f		I-cal in ne
	6		6	-20					g		Seq.
	7		7	-5					H		
	8		8	BNA-80 ICV					S012800B		
3/3/00	1	000303	03MAR001	DFTPP	N/A	1 µl	N/A		S092199A	LL	
	2		002	BNA - 160					S030300B		
	3		003	-120					C		
	4		004	-80					D		
	5		005	-50					E		
	6		006	-20					F		
	7		007	-5					S122899H		
	8		008	-80 ICV					S012800B		
3/6/00	1	000306	06MAR001	DFTPP					S092199A	LL	
	2		2	BNA-80					S030300D		
	3		3	8270TC MB0302-4							
	4		4	LCS							

INSTRUMENT LOGBOOK

Calscience Environmental Laboratories, Inc.

Date Loaded	Pos	Directory	Data File	CEL ID #	Mtx	Amount Loaded	pH <2	Lot # IS/SS	Lot # Cal. Std.	By	Comments
4/5/00	6	000405	05Apr006	4-0093-6 MS	N/A	1 µl	N/A			LC	
	7		7	6 MSD							
	8		8	4-0093-2							
	9		9	-3							
	10		10	-6							
	11		11	8270 TC MB032[illegible]-3							
	12		12	LCS							
	13		13	LCSD							
	14		14	3-983-11							
	15		15	-11 MS							
	16		16	MSD							
	1		17	DFTPP					5032000A		
	2		18	BNA-80					5030300D		
4/6/00	1	000406	06Apr001	DFTPP					5032000A		
	2		2	BNA-80					5030300D		
	3		3	8270S MB0404-5							
	4		4	LCS							
	5		5	LCSD							
	6		6	3-1139-12							
	7		7	-13							

INSTRUMENT LOGBOOK

Calscience Environmental Laboratories, Inc.

Date Loaded	Pos	Directory	Data File	CEL ID #	Mtx	Amount Loaded	pH <2	Lot # IS/SS	Lot # Cal. Std.	By	Comments
4/6/00	8	000406	06Apr008	3-1139-14	N/A	1 µl	N/A			LL	
	9		9	-14MS							
	10		10	-14MSD							
	11		11	8270TCMB0404-3							
	12		12	LCS							
	13		13	LCSD							
	14		14	4-0039-1							
	15		15	-1MSD							
	16		16	-1MS							
	17		17	4-0041-1							
	18		18	-2							
	19		19	4-0042-1							
	20		20	-2							
	21		21	4-0054-1							
	22		22	-2							
	1		23	DFTPP					5032000A		
	2		24	BNA-80					5030300D		

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GEOMATRIX

Samples Raw Data

Data File : H:\HPCHEM\1\DATA\000406\06APR006.D Vial: 6
Acq On : 6 Apr 2000 2:56 pm Operator:
Sample : 3-1139-12 B#0404-5 Inst : GC/MS H
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 7 12:32 2000 Quant Results File: 000303.RES

Quant Method : H:\HPCHEM\1\METHODS\000303.M (RTE Integrator)
Title : BNA 8270/625 CALIBRATION
Last Update : Thu Feb 10 12:03:31 2000
Response via : Initial Calibration
DataAcq Meth : SVOA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.11	152	671115	40.00	mg/l	-0.04
19) Naphthalene-d8	6.45	136	2385287	40.00	mg/l	-0.04
35) Acenaphthene-d10	8.39	164	1381774	40.00	mg/l	-0.04
55) Phenanthrene-d10	10.02	188	2079129	40.00	mg/l	-0.04
68) Chrysene-d12	13.04	240	1785063	40.00	mg/l	-0.06
76) Perylene-d12	15.33	264	1372960	40.00	mg/l	-0.08
System Monitoring Compounds						
4) 2-Fluorophenol	3.93	112	1652068	68.28	mg/l	-0.01
Spiked Amount 100.000			Recovery = 68.28%			
6) Phenol-d6	4.79	99	2052961	69.27	mg/l	-0.05
Spiked Amount 100.000			Recovery = 69.27%			
20) Nitrobenzene-d5	5.71	82	2000878	77.37	mg/l	-0.04
Spiked Amount 100.000			Recovery = 77.37%			
40) 2-Fluorobiphenyl	7.65	172	3173104	72.61	mg/l	-0.04
Spiked Amount 100.000			Recovery = 72.61%			
59) 2,4,6-Tribromophenol	9.27	330	445418	73.43	mg/l	-0.05
Spiked Amount 100.000			Recovery = 73.43%			
70) p-Terphenyl-d14	11.83	244	3214239	68.02	mg/l	-0.04
Spiked Amount 100.000			Recovery = 68.02%			
Target Compounds						Qvalue
2) Pyridine	0.00	52	0	N.D. d		
3) N-Nitrosodimethylamine	2.73	74	4667	N.D.		
5) Aniline	4.84	93	95	N.D.		
7) Phenol	4.80	94	3520	N.D.		
8) Bis(2-Chloroethyl) Ether	4.88	93	59	N.D.		
9) 2-Chlorophenol	4.94	128	733	N.D.		
10) 1,3-Dichlorobenzene	5.12	146	44	N.D.		
11) 1,4-Dichlorobenzene	5.12	146	44	N.D.		
12) Benzyl Alcohol	5.50	79	4299	N.D.		
13) 1,2-Dichlorobenzene	5.12	146	44	N.D.		
14) 2-Methylphenol	5.33	108	64	N.D.		
15) Bis(2-Chloroisopropyl) Eth	5.41	45	14156	N.D.		
16) 3/4-Methylphenol	5.57	107	202	N.D.		
17) N-Nitroso-di-n-propylamine	0.00	70	0	N.D. d		
18) Hexachloroethane	5.68	117	49	N.D.		
21) Nitrobenzene	5.77	77	719	N.D.		
22) Isophorone	0.00	82	0	N.D. d		
23) 2-Nitrophenol	5.86	139	50	N.D.		

(#) = qualifier out of range (m) = manual integration

Data File : H:\HPCHEM\1\DATA\000406\06APR006.D Vial: 6
Acq On : 6 Apr 2000 2:56 pm Operator:
Sample : 3-1139-12 B#0404-5 Inst : GC/MS H
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 7 12:32 2000 Quant Results File: 000303.RE

Quant Method : H:\HPCHEM\1\METHODS\000303.M (RTE Integrator)
Title : BNA 8270/625 CALIBRATION
Last Update : Thu Feb 10 12:03:31 2000
Response via : Initial Calibration
DataAcq Meth : SVOA

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
24)	2,4-Dimethylphenol	6.45	107	12374	N.D.	
25)	Benzoic Acid	6.43	105	217	N.D.	
26)	Bis(2-Chloroethoxy) Methan	6.37	93	68	N.D.	
27)	2,4-Dichlorophenol	6.08	162	59	N.D.	
28)	1,2,4-Trichlorobenzene	0.00	180	0	N.D.	
29)	Naphthalene	6.51	128	41	N.D.	
30)	4-Chloroaniline	6.57	127	67	N.D.	
31)	Hexachloro-1,3-Butadiene	0.00	225	0	N.D.	
32)	4-Chloro-3-Methylphenol	7.12	107	252	N.D.	
33)	2-Methylnaphthalene	7.22	142	470	N.D.	
34)	1-Methylnaphthalene	7.34	142	152	N.D.	
36)	Hexachlorocyclopentadiene	0.00	237	0	N.D.	
37)	2,4,6-Trichlorophenol	7.44	196	52	N.D.	
38)	2,4,5-Trichlorophenol	7.44	196	52	N.D.	
39)	2-Chloronaphthalene	7.71	162	68	N.D.	
41)	2-Nitroaniline	7.75	65	284	N.D.	
42)	Dimethyl Phthalate	0.00	163	0	N.D.	d
43)	Acenaphthylene	8.28	152	50	N.D.	
44)	3-Nitroaniline	8.48	138	42	N.D.	
45)	Acenaphthene	8.50	153	89	N.D.	
46)	2,4-Dinitrophenol	8.23	184	39	N.D.	
47)	4-Nitrophenol	8.60	139	274	N.D.	
48)	Dibenzofuran	8.60	168	93	N.D.	
49)	2,4-Dinitrotoluene	0.00	165	0	N.D.	d
50)	2,6-Dinitrotoluene	0.00	165	0	N.D.	d
51)	Diethyl Phthalate	8.93	149	3743	N.D.	
52)	4-Chlorophenyl-Phenyl Ethe	0.00	204	0	N.D.	
53)	Fluorene	9.27	166	28480	N.D.	
54)	4-Nitroaniline	9.14	138	42	N.D.	
56)	Azobenzene	9.45	77	273	N.D.	
57)	4,6-Dinitro-2-Methylphenol	9.27	198	1024	N.D.	
58)	N-Nitrosodiphenylamine	9.27	169	15553	N.D.	
60)	4-Bromophenyl-Phenyl Ether	0.00	248	0	N.D.	d
61)	Hexachlorobenzene	0.00	284	0	N.D.	
62)	Pentachlorophenol	9.93	266	80	N.D.	
63)	Phenanthrene	10.10	178	517	N.D.	
64)	Anthracene	10.16	178	111	N.D.	
65)	Di-n-Butyl Phthalate	10.74	149	20805	N.D.	
66)	Fluoranthene	11.38	202	2481	N.D.	
67)	Benzidine	0.00	184	0	N.D.	d

(#) = qualifier out of range (m) = manual integration

Data File : H:\HPCHEM\1\DATA\000406\06APR006.D Vial: 6
Acq On : 6 Apr 2000 2:56 pm Operator:
Sample : 3-1139-12 B#0404-5 Inst : GC/MS H
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 7 12:32 2000 Quant Results File: 000303.RES

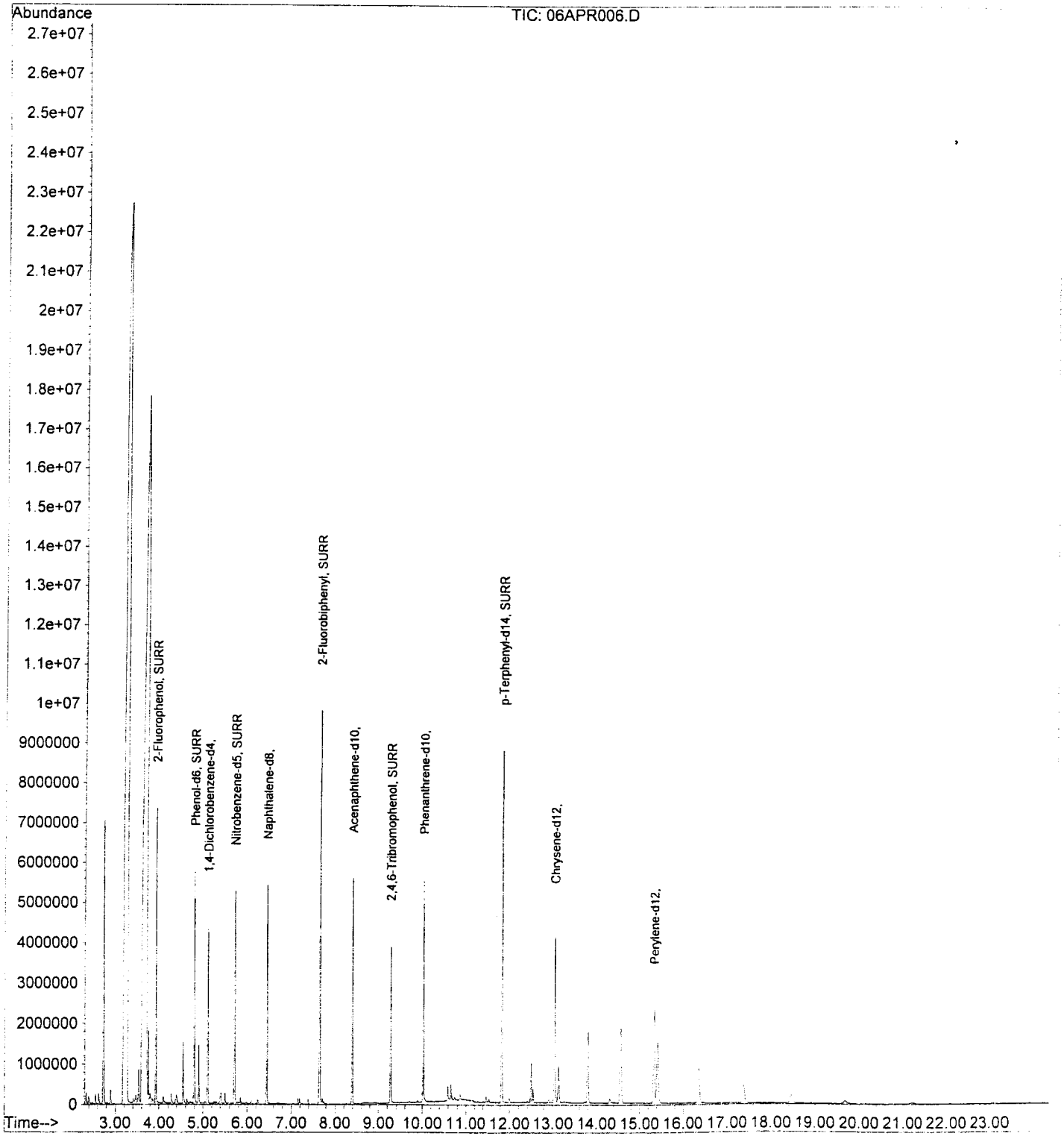
Quant Method : H:\HPCHEM\1\METHODS\000303.M (RTE Integrator)
Title : BNA 8270/625 CALIBRATION
Last Update : Thu Feb 10 12:03:31 2000
Response via : Initial Calibration
DataAcq Meth : SVOA

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
69) Pyrene	11.83	202	10195	N.D.	
71) Butyl Benzyl Phthalate	12.41	149	7482	N.D.	
72) 3,3'-Dichlorobenzidine	13.06	252	52	N.D.	
73) Benzo (a) Anthracene	13.08	228	1103	N.D.	
74) Bis(2-Ethylhexyl) Phthalat	13.15	149	22241	N.D.	
75) Chrysene	13.08	228	1103	N.D.	
77) Di-n-Octyl Phthalate	13.80	149	33695	N.D.	
78) Benzo (b) Fluoranthene	14.74	252	87	N.D.	
79) Benzo (k) Fluoranthene	14.56	252	1079	N.D.	
80) Benzo (a) Pyrene	15.34	252	2531	N.D.	
81) Indeno (1,2,3-c,d) Pyrene	17.54	276	43	N.D.	
82) Dibenz (a,h) Anthracene	17.54	278	46	N.D.	
83) Benzo (g,h,i) Perylene	18.08	276	45	N.D.	

(#) = qualifier out of range (m) = manual integration

Data File : H:\HPCHEM\1\DATA\000406\06APR006.D Vial: 6
Acq On : 6 Apr 2000 2:56 pm Operator:
Sample : 3-1139-12 B#0404-5 Inst : GC/MS H
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 7 12:32 2000 Quant Results File: 000303.RE

Method : H:\HPCHEM\1\METHODS\000303.M (RTE Integrator)
Title : BNA 8270/625 CALIBRATION
Last Update : Thu Feb 10 12:03:31 2000
Response via : Initial Calibration



Data File : H:\HPCHEM\1\DATA\000406\06APR007.D Vial: 7
Acq On : 6 Apr 2000 3:30 pm Operator:
Sample : 3-1139-13 B#0404-5 Inst : GC/MS H
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 7 12:41 2000 Quant Results File: 000303.RES

Quant Method : H:\HPCHEM\1\METHODS\000303.M (RTE Integrator)
Title : BNA 8270/625 CALIBRATION
Last Update : Thu Feb 10 12:03:31 2000
Response via : Initial Calibration
DataAcq Meth : SVOA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.11	152	705006	40.00	mg/l	-0.04
19) Naphthalene-d8	6.45	136	2467760	40.00	mg/l	-0.04
35) Acenaphthene-d10	8.39	164	1394702	40.00	mg/l	-0.04
55) Phenanthrene-d10	10.02	188	2098439	40.00	mg/l	-0.04
68) Chrysene-d12	13.04	240	1760313	40.00	mg/l	-0.06
76) Perylene-d12	15.34	264	1302023	40.00	mg/l	-0.08
System Monitoring Compounds						
4) 2-Fluorophenol	3.94	112	1634788	64.32	mg/l	0.00
Spiked Amount 100.000			Recovery = 64.32%			
6) Phenol-d6	4.80	99	2035378	65.38	mg/l	-0.04
Spiked Amount 100.000			Recovery = 65.38%			
20) Nitrobenzene-d5	5.71	82	1983527	74.14	mg/l	-0.04
Spiked Amount 100.000			Recovery = 74.14%			
40) 2-Fluorobiphenyl	7.65	172	3112544	70.56	mg/l	-0.04
Spiked Amount 100.000			Recovery = 70.56%			
59) 2,4,6-Tribromophenol	9.27	330	429096m	70.09	mg/l	-0.05
Spiked Amount 100.000			Recovery = 70.09%			
70) p-Terphenyl-d14	11.83	244	3121035	66.97	mg/l	-0.04
Spiked Amount 100.000			Recovery = 66.97%			
Target Compounds						Qvalue
2) Pyridine	0.00	52	0	N.D.	d	
3) N-Nitrosodimethylamine	2.75	74	4229	N.D.		
5) Aniline	4.74	93	50	N.D.		
7) Phenol	4.81	94	3327	N.D.		
8) Bis(2-Chloroethyl) Ether	4.74	93	50	N.D.		
9) 2-Chlorophenol	4.94	128	366	N.D.		
10) 1,3-Dichlorobenzene	5.11	146	141	N.D.		
11) 1,4-Dichlorobenzene	5.11	146	141	N.D.		
12) Benzyl Alcohol	5.51	79	3785	N.D.		
13) 1,2-Dichlorobenzene	5.11	146	141	N.D.		
14) 2-Methylphenol	5.46	108	58	N.D.		
15) Bis(2-Chloroisopropyl) Eth	5.47	45	191	N.D.		
16) 3/4-Methylphenol	5.57	107	193	N.D.		
17) N-Nitroso-di-n-propylamine	0.00	70	0	N.D.	d	
18) Hexachloroethane	5.69	117	40	N.D.		
21) Nitrobenzene	5.77	77	490	N.D.		
22) Isophorone	0.00	82	0	N.D.	d	
23) 2-Nitrophenol	6.10	139	61	N.D.		

(#) = qualifier out of range (m) = manual integration

Data File : H:\HPCHEM\1\DATA\000406\06APR007.D Vial: 7
Acq On : 6 Apr 2000 3:30 pm Operator:
Sample : 3-1139-13 B#0404-5 Inst : GC/MS H
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 7 12:41 2000 Quant Results File: 000303.RE

Quant Method : H:\HPCHEM\1\METHODS\000303.M (RTE Integrator)
Title : BNA 8270/625 CALIBRATION
Last Update : Thu Feb 10 12:03:31 2000
Response via : Initial Calibration
DataAcq Meth : SVOA

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
24) 2,4-Dimethylphenol	6.43	107	1143	N.D.	
25) Benzoic Acid	6.46	105	798	N.D.	
26) Bis(2-Chloroethoxy) Methan	6.43	93	143	N.D.	
27) 2,4-Dichlorophenol	6.09	162	56	N.D.	
28) 1,2,4-Trichlorobenzene	0.00	180	0	N.D.	
29) Naphthalene	6.47	128	1321	N.D.	
30) 4-Chloroaniline	6.59	127	123	N.D.	
31) Hexachloro-1,3-Butadiene	0.00	225	0	N.D.	
32) 4-Chloro-3-Methylphenol	7.12	107	95	N.D.	
33) 2-Methylnaphthalene	7.22	142	221	N.D.	
34) 1-Methylnaphthalene	7.65	142	1558	N.D.	
36) Hexachlorocyclopentadiene	0.00	237	0	N.D.	
37) 2,4,6-Trichlorophenol	0.00	196	0	N.D.	
38) 2,4,5-Trichlorophenol	0.00	196	0	N.D.	
39) 2-Chloronaphthalene	7.39	162	2339	N.D.	
41) 2-Nitroaniline	7.96	65	215	N.D.	
42) Dimethyl Phthalate	0.00	163	0	N.D. d	
43) Acenaphthylene	8.22	152	292	N.D.	
44) 3-Nitroaniline	8.40	138	263	N.D.	
45) Acenaphthene	8.48	153	41	N.D.	
46) 2,4-Dinitrophenol	8.33	184	45	N.D.	
47) 4-Nitrophenol	8.61	139	53	N.D.	
48) Dibenzofuran	8.61	168	44	N.D.	
49) 2,4-Dinitrotoluene	8.67	165	244	N.D.	
50) 2,6-Dinitrotoluene	8.50	165	1242	N.D.	
51) Diethyl Phthalate	8.93	149	2906	N.D.	
52) 4-Chlorophenyl-Phenyl Ethe	0.00	204	0	N.D.	
53) Fluorene	9.27	166	27103	N.D.	
54) 4-Nitroaniline	9.08	138	48	N.D.	
56) Azobenzene	9.64	77	532	N.D.	
57) 4,6-Dinitro-2-Methylphenol	9.22	198	50	N.D.	
58) N-Nitrosodiphenylamine	9.27	169	15257	N.D.	
60) 4-Bromophenyl-Phenyl Ether	0.00	248	0	N.D. d	
61) Hexachlorobenzene	0.00	284	0	N.D.	
62) Pentachlorophenol	10.00	266	54	N.D.	
63) Phenanthrene	10.05	178	1076	N.D.	
64) Anthracene	10.05	178	1076	N.D.	
65) Di-n-Butyl Phthalate	10.74	149	12414	N.D.	
66) Fluoranthene	11.38	202	2385	N.D.	
67) Benzidine	0.00	184	0	N.D. d	

(#) = qualifier out of range (m) = manual integration

Data File : H:\HPCHEM\1\DATA\000406\06APR007.D Vial: 7
Acq On : 6 Apr 2000 3:30 pm Operator:
Sample : 3-1139-13 B#0404-5 Inst : GC/MS H
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 7 12:41 2000 Quant Results File: 000303.RES

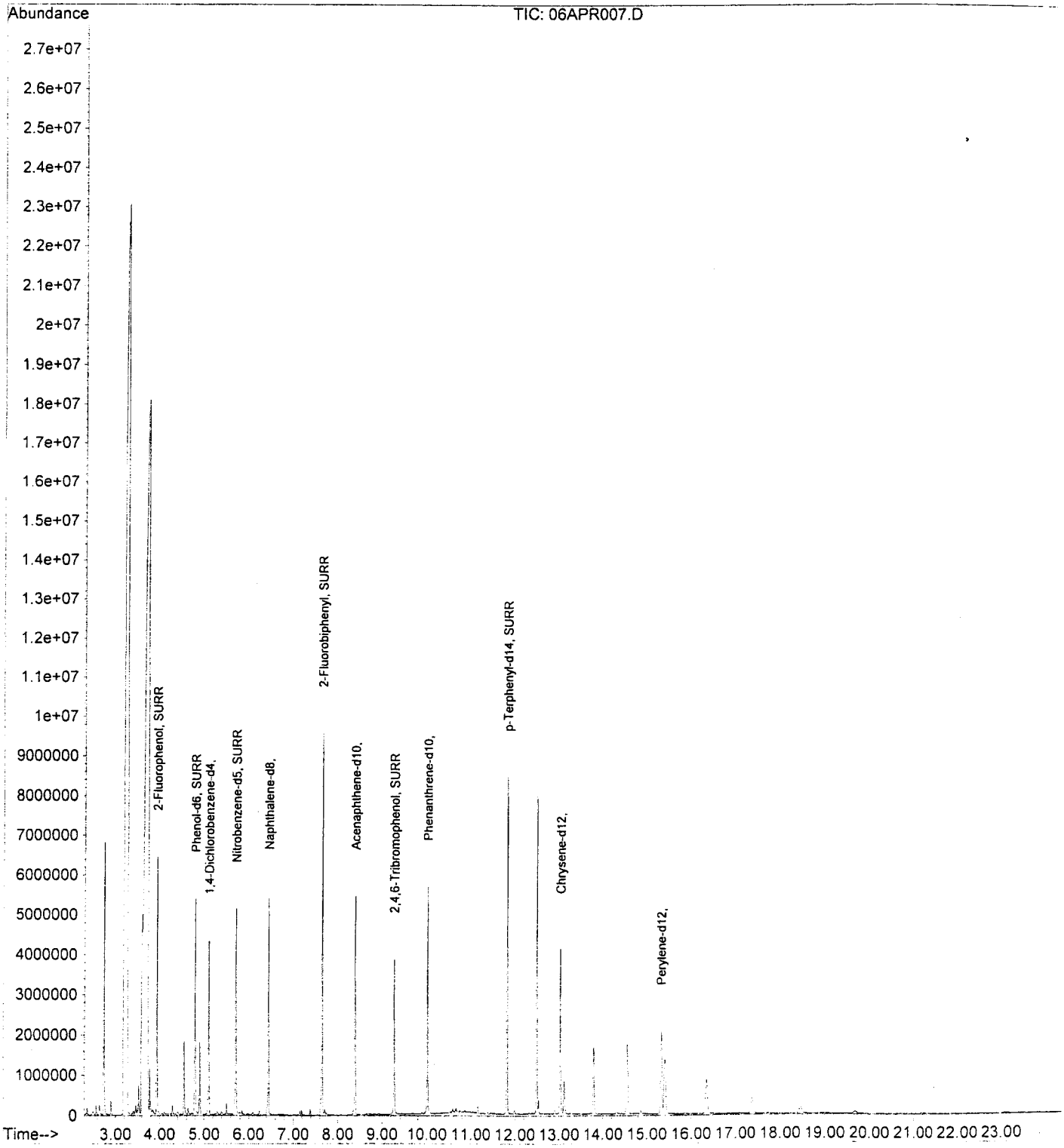
Quant Method : H:\HPCHEM\1\METHODS\000303.M (RTE Integrator)
Title : BNA 8270/625 CALIBRATION
Last Update : Thu Feb 10 12:03:31 2000
Response via : Initial Calibration
DataAcq Meth : SVOA

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
69) Pyrene	11.63	202	4210	N.D.	
71) Butyl Benzyl Phthalate	12.41	149	2975	N.D.	
72) 3,3'-Dichlorobenzidine	13.11	252	98	N.D.	
73) Benzo (a) Anthracene	13.08	228	607	N.D.	
74) Bis(2-Ethylhexyl) Phthalat	13.16	149	17826	N.D.	
75) Chrysene	13.08	228	607	N.D.	
77) Di-n-Octyl Phthalate	13.80	149	29758	N.D.	
78) Benzo (b) Fluoranthene	14.74	252	122	N.D.	
79) Benzo (k) Fluoranthene	14.56	252	871	N.D.	
80) Benzo (a) Pyrene	15.34	252	3416	N.D.	
81) Indeno (1,2,3-c,d) Pyrene	17.52	276	59	N.D.	
82) Dibenz (a,h) Anthracene	17.42	278	43	N.D.	
83) Benzo (g,h,i) Perylene	18.15	276	46	N.D.	

(#) = qualifier out of range (m) = manual integration

Data File : H:\HPCHEM\1\DATA\000406\06APR007.D Vial: 7
Acq On : 6 Apr 2000 3:30 pm Operator:
Sample : 3-1139-13 B#0404-5 Inst : GC/MS H
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 7 12:41 2000 Quant Results File: 000303.RE

Method : H:\HPCHEM\1\METHODS\000303.M (RTE Integrator)
Title : BNA 8270/625 CALIBRATION
Last Update : Thu Feb 10 12:03:31 2000
Response via : Initial Calibration



Data File : H:\HPCHEM\1\DATA\000406\06APR008.D Vial: 8
Acq On : 6 Apr 2000 4:04 pm Operator:
Sample : 3-1139-14 B#0404-5 Inst : GC/MS H
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 7 12:44 2000 Quant Results File: 000303.RES

Quant Method : H:\HPCHEM\1\METHODS\000303.M (RTE Integrator)
Title : BNA 8270/625 CALIBRATION
Last Update : Thu Feb 10 12:03:31 2000
Response via : Initial Calibration
DataAcq Meth : SVOA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.11	152	673975	40.00	mg/l	-0.04
19) Naphthalene-d8	6.45	136	2352715	40.00	mg/l	-0.04
35) Acenaphthene-d10	8.39	164	1325551	40.00	mg/l	-0.04
55) Phenanthrene-d10	10.02	188	1993271	40.00	mg/l	-0.04
68) Chrysene-d12	13.05	240	1734152	40.00	mg/l	-0.06
76) Perylene-d12	15.34	264	1220575	40.00	mg/l	-0.08
System Monitoring Compounds						
4) 2-Fluorophenol	3.93	112	1678732	69.09	mg/l	0.00
Spiked Amount 100.000			Recovery = 69.09%			
6) Phenol-d6	4.80	99	2087174	70.13	mg/l	-0.05
Spiked Amount 100.000			Recovery = 70.13%			
20) Nitrobenzene-d5	5.71	82	2024237	79.36	mg/l	-0.04
Spiked Amount 100.000			Recovery = 79.36%			
40) 2-Fluorobiphenyl	7.65	172	3189137	76.07	mg/l	-0.04
Spiked Amount 100.000			Recovery = 76.07%			
59) 2,4,6-Tribromophenol	9.28	330	442496	76.09	mg/l	-0.05
Spiked Amount 100.000			Recovery = 76.09%			
70) p-Terphenyl-d14	11.83	244	3261760	71.05	mg/l	-0.04
Spiked Amount 100.000			Recovery = 71.05%			
Target Compounds						Qvalue
2) Pyridine	0.00	52	0	N.D.	d	
3) N-Nitrosodimethylamine	2.56	74	15885	N.D.		
5) Aniline	4.80	93	46	N.D.		
7) Phenol	4.81	94	2229	N.D.		
8) Bis(2-Chloroethyl) Ether	4.97	93	51	N.D.		
9) 2-Chlorophenol	4.94	128	474	N.D.		
10) 1,3-Dichlorobenzene	5.11	146	242	N.D.		
11) 1,4-Dichlorobenzene	5.12	146	73	N.D.		
12) Benzyl Alcohol	5.50	79	4058	N.D.		
13) 1,2-Dichlorobenzene	5.12	146	73	N.D.		
14) 2-Methylphenol	5.47	108	64	N.D.		
15) Bis(2-Chloroisopropyl) Eth	5.40	45	9531	N.D.		
16) 3/4-Methylphenol	5.57	107	134	N.D.		
17) N-Nitroso-di-n-propylamine	0.00	70	0	N.D.	d	
18) Hexachloroethane	5.71	117	54	N.D.		
21) Nitrobenzene	5.77	77	642	N.D.		
22) Isophorone	0.00	82	0	N.D.	d	
23) 2-Nitrophenol	6.08	139	54	N.D.		

(#) = qualifier out of range (m) = manual integration

Data File : H:\HPCHEM\1\DATA\000406\06APR008.D Vial: 8
Acq On : 6 Apr 2000 4:04 pm Operator:
Sample : 3-1139-14 B#0404-5 Inst : GC/MS H
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 7 12:44 2000 Quant Results File: 000303.RE

Quant Method : H:\HPCHEM\1\METHODS\000303.M (RTE Integrator)
Title : BNA 8270/625 CALIBRATION
Last Update : Thu Feb 10 12:03:31 2000
Response via : Initial Calibration
DataAcq Meth : SVOA

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
24)	2,4-Dimethylphenol	6.46	107	4840	N.D.	
25)	Benzoic Acid	6.44	105	239	N.D.	
26)	Bis(2-Chloroethoxy) Methan	6.38	93	222	N.D.	
27)	2,4-Dichlorophenol	6.08	162	40	N.D.	
28)	1,2,4-Trichlorobenzene	6.40	180	39	N.D.	
29)	Naphthalene	6.50	128	50	N.D.	
30)	4-Chloroaniline	6.57	127	102	N.D.	
31)	Hexachloro-1,3-Butadiene	0.00	225	0	N.D.	
32)	4-Chloro-3-Methylphenol	7.12	107	40	N.D.	
33)	2-Methylnaphthalene	7.23	142	84	N.D.	
34)	1-Methylnaphthalene	7.38	142	346	N.D.	
36)	Hexachlorocyclopentadiene	7.11	237	40	N.D.	
37)	2,4,6-Trichlorophenol	7.99	196	39	N.D.	
38)	2,4,5-Trichlorophenol	7.99	196	39	N.D.	
39)	2-Chloronaphthalene	7.39	162	1851	N.D.	
41)	2-Nitroaniline	7.74	65	356	N.D.	
42)	Dimethyl Phthalate	0.00	163	0	N.D.	d
43)	Acenaphthylene	8.50	152	136	N.D.	
44)	3-Nitroaniline	8.46	138	44	N.D.	
45)	Acenaphthene	8.86	153	338	N.D.	
46)	2,4-Dinitrophenol	8.97	184	48	N.D.	
47)	4-Nitrophenol	8.61	139	396	N.D.	
48)	Dibenzofuran	8.73	168	43	N.D.	
49)	2,4-Dinitrotoluene	0.00	165	0	N.D.	d
50)	2,6-Dinitrotoluene	0.00	165	0	N.D.	d
51)	Diethyl Phthalate	8.93	149	2812	N.D.	
52)	4-Chlorophenyl-Phenyl Ethe	9.16	204	39	N.D.	
53)	Fluorene	9.28	166	28380	N.D.	
54)	4-Nitroaniline	8.92	138	39	N.D.	
56)	Azobenzene	9.16	77	323	N.D.	
57)	4,6-Dinitro-2-Methylphenol	9.28	198	1070	N.D.	
58)	N-Nitrosodiphenylamine	9.28	169	15236	N.D.	
60)	4-Bromophenyl-Phenyl Ether	0.00	248	0	N.D.	d
61)	Hexachlorobenzene	0.00	284	0	N.D.	
62)	Pentachlorophenol	9.90	266	45	N.D.	
63)	Phenanthrene	10.10	178	660	N.D.	
64)	Anthracene	10.10	178	660	N.D.	
65)	Di-n-Butyl Phthalate	10.79	149	392	N.D.	
66)	Fluoranthene	11.38	202	5342	N.D.	
67)	Benzidine	0.00	184	0	N.D.	d

(#) = qualifier out of range (m) = manual integration

Data File : H:\HPCHEM\1\DATA\000406\06APR008.D Vial: 8
Acq On : 6 Apr 2000 4:04 pm Operator:
Sample : 3-1139-14 B#0404-5 Inst : GC/MS H
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 7 12:44 2000 Quant Results File: 000303.RES

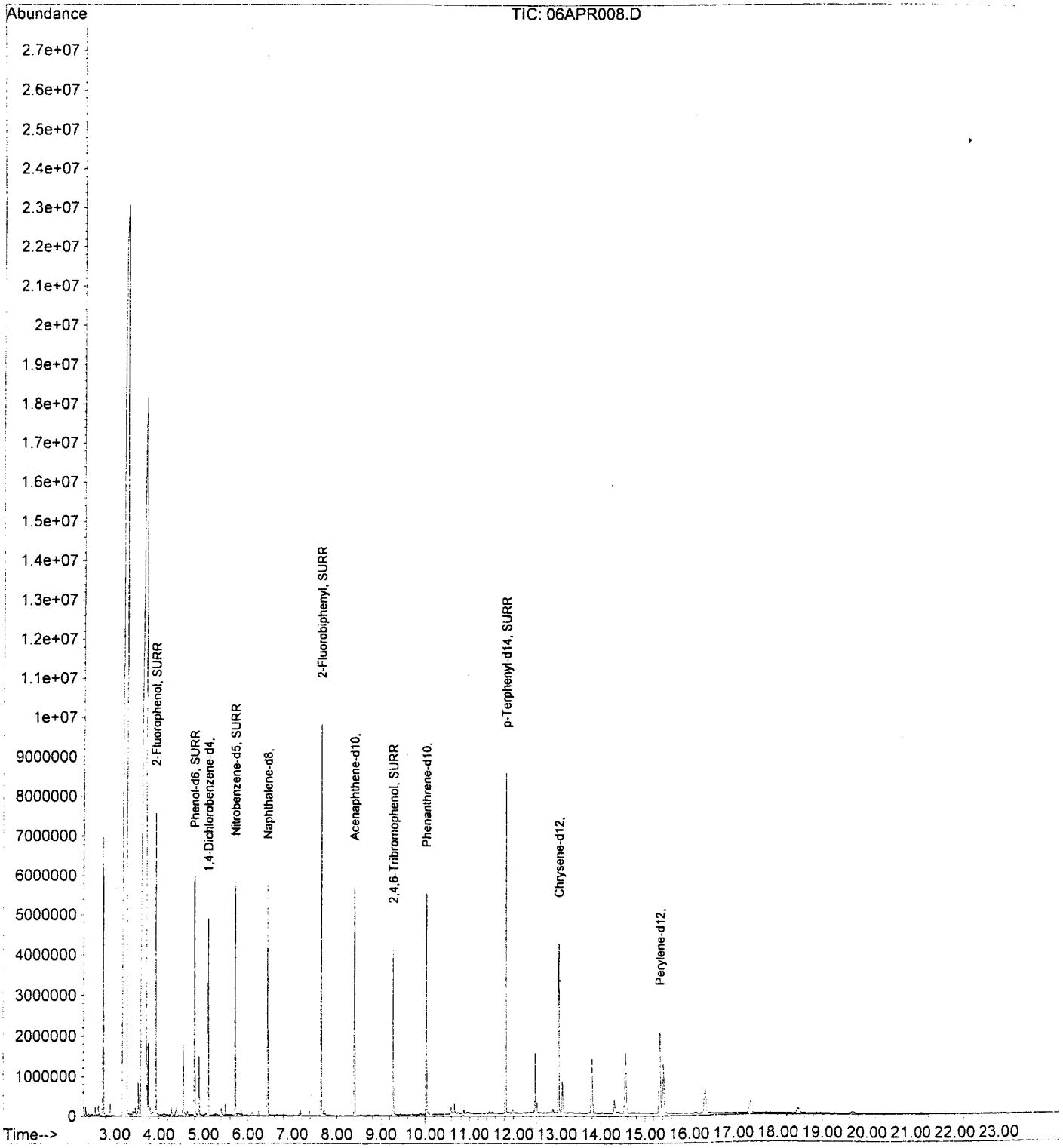
Quant Method : H:\HPCHEM\1\METHODS\000303.M (RTE Integrator)
Title : BNA 8270/625 CALIBRATION
Last Update : Thu Feb 10 12:03:31 2000
Response via : Initial Calibration
DataAcq Meth : SVOA

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
69) Pyrene	11.63	202	10095	N.D.	
71) Butyl Benzyl Phthalate	12.40	149	3499	N.D.	
72) 3,3'-Dichlorobenzidine	13.05	252	132	N.D.	
73) Benzo (a) Anthracene	13.08	228	2844	N.D.	
74) Bis(2-Ethylhexyl) Phthalat	13.15	149	22198	N.D.	
75) Chrysene	13.08	228	2844	N.D.	
77) Di-n-Octyl Phthalate	14.08	149	1572	N.D.	
78) Benzo (b) Fluoranthene	14.76	252	268	N.D.	
79) Benzo (k) Fluoranthene	14.71	252	1277	N.D.	
80) Benzo (a) Pyrene	15.34	252	4821	N.D.	
81) Indeno (1,2,3-c,d) Pyrene	17.51	276	155	N.D.	
82) Dibenz (a,h) Anthracene	17.67	278	51	N.D.	
83) Benzo (g,h,i) Perylene	18.00	276	654	N.D.	

(#) = qualifier out of range (m) = manual integration

Data File : H:\HPCHEM\1\DATA\000406\06APR008.D Vial: 8
Acq On : 6 Apr 2000 4:04 pm Operator:
Sample : 3-1139-14 B#0404-5 Inst : GC/MS H
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 7 12:44 2000 Quant Results File: 000303.RE

Method : H:\HPCHEM\1\METHODS\000303.M (RTE Integrator)
Title : BNA 8270/625 CALIBRATION
Last Update : Thu Feb 10 12:03:31 2000
Response via : Initial Calibration



GEOMATRIX

MS/MSD QC Data

Geomatrix Consultants

Data File : H:\HPCHEM\1\DATA\000406\06APR010.D Vial: 10
Acq On : 6 Apr 2000 5:11 pm Operator:
Sample : 3-1139-14 MSD B#0404-5 Inst : GC/MS H
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 7 12:49 2000 Quant Results File: 000303.RES

Quant Method : H:\HPCHEM\1\METHODS\000303.M (RTE Integrator)
Title : BNA 8270/625 CALIBRATION
Last Update : Thu Feb 10 12:03:31 2000
Response via : Initial Calibration
DataAcq Meth : SVOA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.11	152	662721	40.00	mg/l	-0.04
19) Naphthalene-d8	6.45	136	2307387	40.00	mg/l	-0.04
35) Acenaphthene-d10	8.39	164	1327187	40.00	mg/l	-0.04
55) Phenanthrene-d10	10.03	188	2008852	40.00	mg/l	-0.04
68) Chrysene-d12	13.04	240	1679461	40.00	mg/l	-0.06
76) Perylene-d12	15.33	264	1132000	40.00	mg/l	-0.08
System Monitoring Compounds						
4) 2-Fluorophenol	3.93	112	1423138	59.56	mg/l	0.00
Spiked Amount 100.000			Recovery = 59.56%			
6) Phenol-d6	4.81	99	1779078	60.79	mg/l	-0.04
Spiked Amount 100.000			Recovery = 60.79%			
20) Nitrobenzene-d5	5.72	82	1721810	68.83	mg/l	-0.04
Spiked Amount 100.000			Recovery = 68.83%			
50) 2-Fluorobiphenyl	7.65	172	2778451	66.19	mg/l	-0.04
Spiked Amount 100.000			Recovery = 66.19%			
59) 2,4,6-Tribromophenol	9.27	330	375485	64.07	mg/l	-0.05
Spiked Amount 100.000			Recovery = 64.07%			
70) p-Terphenyl-d14	11.83	244	2801278	63.01	mg/l	-0.04
Spiked Amount 100.000			Recovery = 63.01%			
Target Compounds						Qvalue
2) Pyridine	0.00	52	0	N.D.	d	
3) N-Nitrosodimethylamine	2.55	74	10701	N.D.		
5) Aniline	0.00	93	0	N.D.	d	
7) Phenol	4.82	94	2018860	65.31	mg/l	97
8) Bis(2-Chloroethyl) Ether	0.00	93	0	N.D.	d	
9) 2-Chlorophenol	4.94	128	1529561	67.04	mg/l	97
10) 1,3-Dichlorobenzene	0.00	146	0	N.D.	d	
11) 1,4-Dichlorobenzene	5.13	146	1722058	70.55	mg/l	99
12) Benzyl Alcohol	5.51	79	3311	N.D.		
13) 1,2-Dichlorobenzene	0.00	146	0	N.D.	d	
14) 2-Methylphenol	5.72	108	499	N.D.		
15) Bis(2-Chloroisopropyl) Eth	5.40	45	488	N.D.		
16) 3/4-Methylphenol	5.42	107	429	N.D.		
17) N-Nitroso-di-n-propylamine	5.58	70	1216890	71.68	mg/l	95
18) Hexachloroethane	5.86	117	2337	N.D.		
21) Nitrobenzene	5.77	77	474	N.D.		
22) Isophorone	0.00	82	0	N.D.	d	
23) 2-Nitrophenol	6.08	139	626	N.D.		

(#) = qualifier out of range (m) = manual integration

Data File : H:\HPCHEM\1\DATA\000406\06APR010.D Vial: 10
Acq On : 6 Apr 2000 5:11 pm Operator:
Sample : 3-1139-14 MSD B#0404-5 Inst : GC/MS H
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 7 12:49 2000 Quant Results File: 000303.RES

Quant Method : H:\HPCHEM\1\METHODS\000303.M (RTE Integrator)
Title : BNA 8270/625 CALIBRATION
Last Update : Thu Feb 10 12:03:31 2000
Response via : Initial Calibration
DataAcq Meth : SVOA

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
24) 2,4-Dimethylphenol	5.85	107	1082	N.D.	
25) Benzoic Acid	6.30	105	164	N.D.	
26) Bis(2-Chloroethoxy) Methan	6.38	93	327	N.D.	
27) 2,4-Dichlorophenol	6.33	162	8058	N.D.	
28) 1,2,4-Trichlorobenzene	6.41	180	1280365	70.08 mg/l	100
29) Naphthalene	6.47	128	2701	N.D.	
30) 4-Chloroaniline	6.60	127	48	N.D.	
31) Hexachloro-1,3-Butadiene	6.71	225	43	N.D.	
32) 4-Chloro-3-Methylphenol	7.08	107	1362780	73.64 mg/l	98
33) 2-Methylnaphthalene	0.00	142	0	N.D. d	
34) 1-Methylnaphthalene	0.00	142	0	N.D. d	
36) Hexachlorocyclopentadiene	0.00	237	0	N.D.	
37) 2,4,6-Trichlorophenol	0.00	196	0	N.D.	
38) 2,4,5-Trichlorophenol	0.00	196	0	N.D.	
39) 2-Chloronaphthalene	7.38	162	1480	N.D.	
41) 2-Nitroaniline	7.74	65	269	N.D.	
42) Dimethyl Phthalate	0.00	163	0	N.D. d	
43) Acenaphthylene	0.00	152	0	N.D. d	
44) 3-Nitroaniline	8.40	138	409	N.D.	
45) Acenaphthene	8.43	153	2541581	69.73 mg/l	95
46) 2,4-Dinitrophenol	8.66	184	388	N.D.	
47) 4-Nitrophenol	8.57	139	528058	68.11 mg/l	87
48) Dibenzofuran	8.66	168	981	N.D.	
49) 2,4-Dinitrotoluene	8.66	165	866103	67.74 mg/l	90
50) 2,6-Dinitrotoluene	0.00	165	0	N.D. d	
51) Diethyl Phthalate	8.93	149	3043	N.D.	
52) 4-Chlorophenyl-Phenyl Ethe	8.94	204	41	N.D.	
53) Fluorene	9.27	166	24579	N.D.	
54) 4-Nitroaniline	9.27	138	63	N.D.	
56) Azobenzene	9.20	77	3036	N.D.	
57) 4,6-Dinitro-2-Methylphenol	9.18	198	47	N.D.	
58) N-Nitrosodiphenylamine	9.27	169	13327	N.D.	
60) 4-Bromophenyl-Phenyl Ether	0.00	248	0	N.D. d	
61) Hexachlorobenzene	0.00	284	0	N.D.	
62) Pentachlorophenol	9.89	266	547344	73.29 mg/l	100
63) Phenanthrene	10.05	178	1622	N.D.	
64) Anthracene	10.05	178	1622	N.D.	
65) Di-n-Butyl Phthalate	10.74	149	11500	N.D.	
66) Fluoranthene	0.00	202	0	N.D. d	
67) Benzidine	0.00	184	0	N.D. d	

(#) = qualifier out of range (m) = manual integration

Data File : H:\HPCHEM\1\DATA\000406\06APR010.D Vial: 10
Acq On : 6 Apr 2000 5:11 pm Operator:
Sample : 3-1139-14 MSD B#0404-5 Inst : GC/MS H
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 7 12:49 2000 Quant Results File: 000303.RES

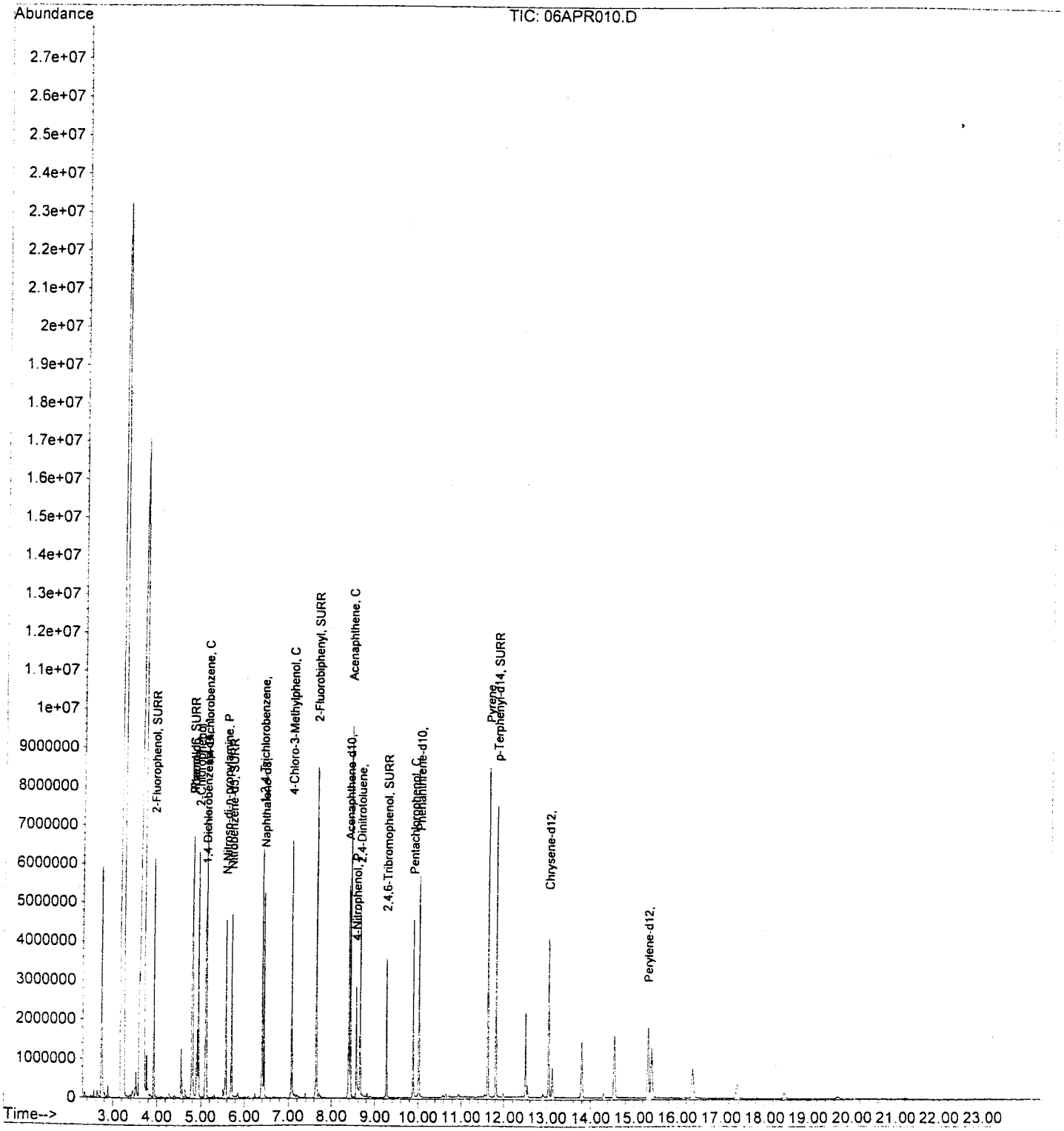
Quant Method : H:\HPCHEM\1\METHODS\000303.M (RTE Integrator)
Title : BNA 8270/625 CALIBRATION
Last Update : Thu Feb 10 12:03:31 2000
Response via : Initial Calibration
DataAcq Meth : SVOA

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
69) Pyrene	11.64	202	3884953	67.54 mg/l	99
71) Butyl Benzyl Phthalate	12.41	149	10959	N.D.	
72) 3,3'-Dichlorobenzidine	13.13	252	374	N.D.	
73) Benzo (a) Anthracene	13.20	228	142	N.D.	
74) Bis(2-Ethylhexyl) Phthalat	13.16	149	19096	N.D.	
75) Chrysene	13.20	228	142	N.D.	
77) Di-n-Octyl Phthalate	14.08	149	3952	N.D.	
78) Benzo (b) Fluoranthene	14.72	252	427	N.D.	
79) Benzo (k) Fluoranthene	14.85	252	206	N.D.	
80) Benzo (a) Pyrene	15.33	252	2003	N.D.	
81) Indeno (1,2,3-c,d) Pyrene	17.49	276	81	N.D.	
82) Dibenz (a,h) Anthracene	17.65	278	43	N.D.	
83) Benzo (g,h,i) Perylene	17.99	276	123	N.D.	

(#) = qualifier out of range (m) = manual integration

Data File : H:\HPCHEM\1\DATA\000406\06APR010.D Vial: 10
Acq On : 6 Apr 2000 5:11 pm Operator:
Sample : 3-1139-14 MSD B#0404-5 Inst : GC/MS H
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 7 12:49 2000 Quant Results File: 000303.RES

Method : H:\HPCHEM\1\METHODS\000303.M (RTE Integrator)
Title : BNA 8270/625 CALIBRATION
Last Update : Thu Feb 10 12:03:31 2000
Response via : Initial Calibration



Data File : H:\HPCHEM\1\DATA\000406\06APR009.D Vial: 9
Acq On : 6 Apr 2000 4:38 pm Operator:
Sample : 3-1139-14 MS B#0404-5 Inst : GC/MS H
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 7 12:47 2000 Quant Results File: 000303.RES

Quant Method : H:\HPCHEM\1\METHODS\000303.M (RTE Integrator)
Title : BNA 8270/625 CALIBRATION
Last Update : Thu Feb 10 12:03:31 2000
Response via : Initial Calibration
DataAcq Meth : SVOA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.11	152	659911	40.00	mg/l	-0.03
19) Naphthalene-d8	6.45	136	2259208	40.00	mg/l	-0.04
35) Acenaphthene-d10	8.39	164	1308210	40.00	mg/l	-0.04
55) Phenanthrene-d10	10.02	188	1962966	40.00	mg/l	-0.04
68) Chrysene-d12	13.04	240	1646424	40.00	mg/l	-0.06
76) Perylene-d12	15.33	264	1133901	40.00	mg/l	-0.08
System Monitoring Compounds						
4) 2-Fluorophenol	3.93	112	1483390	62.35	mg/l	0.00
Spiked Amount 100.000			Recovery = 62.35%			
6) Phenol-d6	4.80	99	1799305	61.74	mg/l	-0.04
Spiked Amount 100.000			Recovery = 61.74%			
20) Nitrobenzene-d5	5.71	82	1786271	72.93	mg/l	-0.04
Spiked Amount 100.000			Recovery = 72.93%			
40) 2-Fluorobiphenyl	7.65	172	2863019	69.20	mg/l	-0.04
Spiked Amount 100.000			Recovery = 69.20%			
59) 2,4,6-Tribromophenol	9.27	330	389762	68.06	mg/l	-0.05
Spiked Amount 100.000			Recovery = 68.06%			
70) p-Terphenyl-d14	11.83	244	2857442	65.56	mg/l	-0.04
Spiked Amount 100.000			Recovery = 65.56%			
Target Compounds						Qvalue
2) Pyridine	0.00	52	0	N.D.	d	
3) N-Nitrosodimethylamine	2.55	74	13978	N.D.		
5) Aniline	4.94	93	35130	N.D.		
7) Phenol	4.82	94	2006143	65.18	mg/l	97
8) Bis(2-Chloroethyl) Ether	0.00	93	0	N.D.	d	
9) 2-Chlorophenol	4.94	128	1539320	67.75	mg/l	98
10) 1,3-Dichlorobenzene	0.00	146	0	N.D.	d	
11) 1,4-Dichlorobenzene	5.13	146	1867171	76.82	mg/l	99
12) Benzyl Alcohol	5.52	79	3488	N.D.		
13) 1,2-Dichlorobenzene	0.00	146	0	N.D.	d	
14) 2-Methylphenol	5.42	108	639	N.D.		
15) Bis(2-Chloroisopropyl) Eth	5.40	45	884	N.D.		
16) 3/4-Methylphenol	5.57	107	406	N.D.		
17) N-Nitroso-di-n-propylamine	5.59	70	1265546	74.86	mg/l	93
18) Hexachloroethane	5.72	117	107	N.D.		
21) Nitrobenzene	5.78	77	248	N.D.		
2) Isophorone	0.00	82	0	N.D.	d	
23) 2-Nitrophenol	6.08	139	516	N.D.		

(#) = qualifier out of range (m) = manual integration

Data File : H:\HPCHEM\1\DATA\000406\06APR009.D Vial: 9
Acq On : 6 Apr 2000 4:38 pm Operator:
Sample : 3-1139-14 MS B#0404-5 Inst : GC/MS H
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 7 12:47 2000 Quant Results File: 000303.RES

Quant Method : H:\HPCHEM\1\METHODS\000303.M (RTE Integrator)
Title : BNA 8270/625 CALIBRATION
Last Update : Thu Feb 10 12:03:31 2000
Response via : Initial Calibration
DataAcq Meth : SVOA

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
24) 2,4-Dimethylphenol	5.85	107	1230	N.D.	
25) Benzoic Acid	6.21	105	499	N.D.	
26) Bis(2-Chloroethoxy) Methan	6.25	93	109	N.D.	
27) 2,4-Dichlorophenol	6.33	162	8568	N.D.	
28) 1,2,4-Trichlorobenzene	6.41	180	1380467	77.17 mg/l	100
29) Naphthalene	6.47	128	2710	N.D.	
30) 4-Chloroaniline	6.58	127	54	N.D.	
31) Hexachloro-1,3-Butadiene	0.00	225	0	N.D.	
32) 4-Chloro-3-Methylphenol	7.08	107	1316475	72.66 mg/l	96
33) 2-Methylnaphthalene	0.00	142	0	N.D. d	
34) 1-Methylnaphthalene	0.00	142	0	N.D. d	
36) Hexachlorocyclopentadiene	7.66	237	40	N.D.	
37) 2,4,6-Trichlorophenol	0.00	196	0	N.D.	
38) 2,4,5-Trichlorophenol	0.00	196	0	N.D.	
39) 2-Chloronaphthalene	7.71	162	125	N.D.	
41) 2-Nitroaniline	8.24	65	664	N.D.	
42) Dimethyl Phthalate	0.00	163	0	N.D. d	
43) Acenaphthylene	0.00	152	0	N.D. d	
44) 3-Nitroaniline	8.39	138	129	N.D.	
45) Acenaphthene	8.43	153	2676283	74.49 mg/l	95
46) 2,4-Dinitrophenol	8.64	184	42	N.D.	
47) 4-Nitrophenol	8.57	139	540683	70.75 mg/l	92
48) Dibenzofuran	8.63	168	49	N.D.	
49) 2,4-Dinitrotoluene	8.66	165	891257	70.72 mg/l	93
50) 2,6-Dinitrotoluene	0.00	165	0	N.D. d	
51) Diethyl Phthalate	8.93	149	3378	N.D.	
52) 4-Chlorophenyl-Phenyl Ethe	0.00	204	0	N.D.	
53) Fluorene	9.27	166	25815	N.D.	
54) 4-Nitroaniline	9.11	138	41	N.D.	
56) Azobenzene	9.13	77	4109	N.D.	
57) 4,6-Dinitro-2-Methylphenol	9.28	198	1195	N.D.	
58) N-Nitrosodiphenylamine	9.28	169	13778	N.D.	
60) 4-Bromophenyl-Phenyl Ether	0.00	248	0	N.D. d	
61) Hexachlorobenzene	0.00	284	0	N.D.	
62) Pentachlorophenol	9.89	266	533481	73.10 mg/l	99
63) Phenanthrene	10.10	178	247	N.D.	
64) Anthracene	10.10	178	247	N.D.	
65) Di-n-Butyl Phthalate	10.81	149	460	N.D.	
66) Fluoranthene	0.00	202	0	N.D. d	
67) Benzidine	0.00	184	0	N.D. d	

(#) = qualifier out of range (m) = manual integration

Data File : H:\HPCHEM\1\DATA\000406\06APR009.D Vial: 9
Acq On : 6 Apr 2000 4:38 pm Operator:
Sample : 3-1139-14 MS B#0404-5 Inst : GC/MS H
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 7 12:47 2000 Quant Results File: 000303.RES

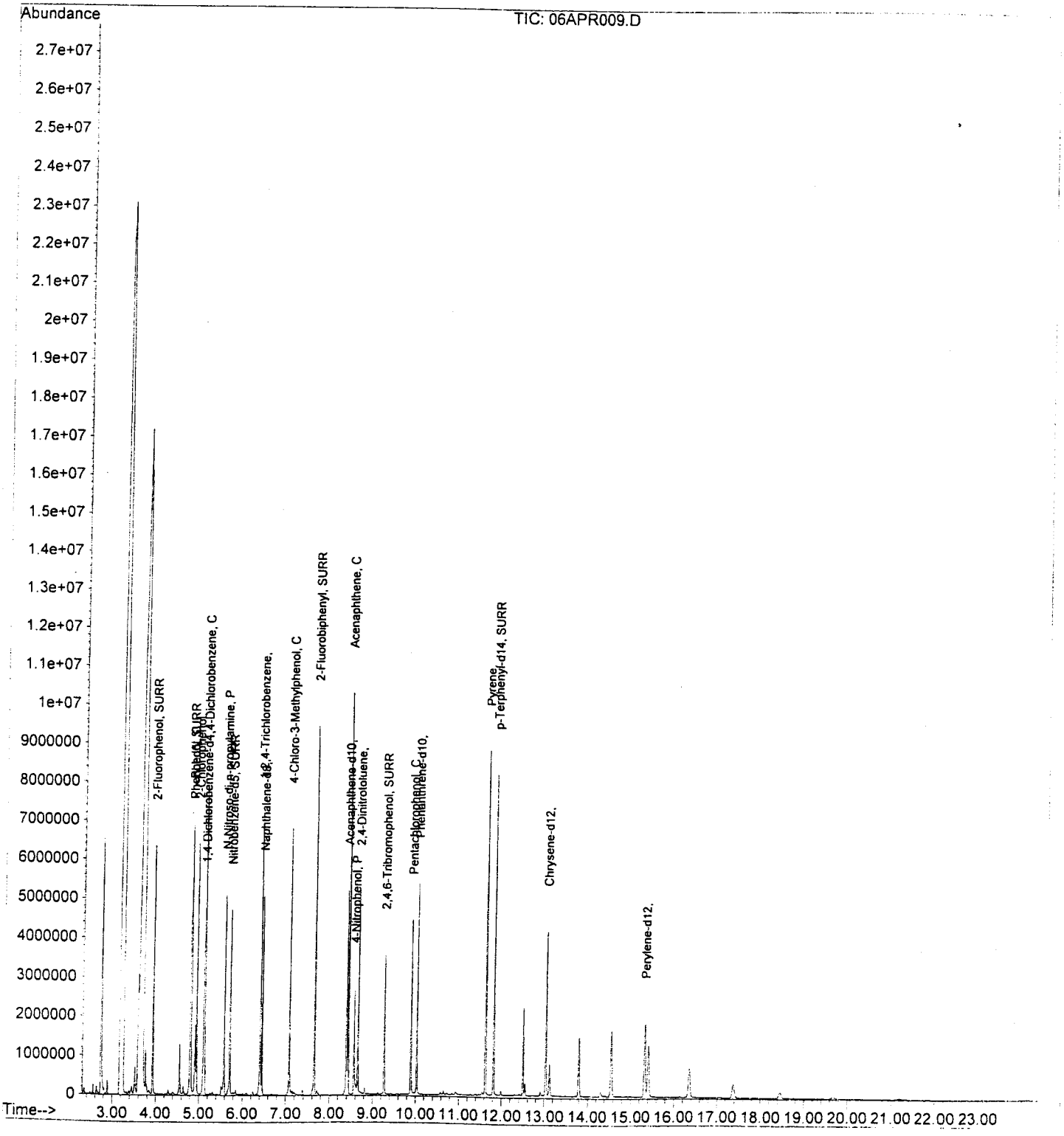
Quant Method : H:\HPCHEM\1\METHODS\000303.M (RTE Integrator)
Title : BNA 8270/625 CALIBRATION
Last Update : Thu Feb 10 12:03:31 2000
Response via : Initial Calibration
DataAcq Meth : SVOA

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
69) Pyrene	11.64	202	3995326	70.85 mg/l	99
71) Butyl Benzyl Phthalate	12.41	149	10824	N.D.	
72) 3,3'-Dichlorobenzidine	13.03	252	41	N.D.	
73) Benzo (a) Anthracene	13.08	228	1197	N.D.	
74) Bis(2-Ethylhexyl) Phthalat	13.15	149	23631	N.D.	
75) Chrysene	13.08	228	1197	N.D.	
77) Di-n-Octyl Phthalate	14.08	149	1424	N.D.	
78) Benzo (b) Fluoranthene	14.73	252	296	N.D.	
79) Benzo (k) Fluoranthene	14.86	252	330	N.D.	
80) Benzo (a) Pyrene	15.33	252	4452	N.D.	
81) Indeno (1,2,3-c,d) Pyrene	17.50	276	120	N.D.	
82) Dibenz (a,h) Anthracene	17.60	278	43	N.D.	
83) Benzo (g,h,i) Perylene	18.06	276	50	N.D.	

(#) = qualifier out of range (m) = manual integration

Data File : H:\HPCHEM\1\DATA\000406\06APR009.D Vial: 9
Acq On : 6 Apr 2000 4:38 pm Operator:
Sample : 3-1139-14 MS B#0404-5 Inst : GC/MS H
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 7 12:47 2000 Quant Results File: 000303.RES

Method : H:\HPCHEM\1\METHODS\000303.M (RTE Integrator)
Title : BNA 8270/625 CALIBRATION
Last Update : Thu Feb 10 12:03:31 2000
Response via : Initial Calibration



GEOMATRIX

LCS/LCSD QC Data

Geomatrix Consultants

Data File : H:\HPCHEM\1\DATA\000406\06APR004.D Vial: 4
Acq On : 6 Apr 2000 1:49 pm Operator:
Sample : 8270S LCS 0404-5 Inst : GC/MS H
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 7 12:23 2000 Quant Results File: 000303.RES

Quant Method : H:\HPCHEM\1\METHODS\000303.M (RTE Integrator)
Title : BNA 8270/625 CALIBRATION
Last Update : Thu Feb 10 12:03:31 2000
Response via : Initial Calibration
DataAcq Meth : SVOA

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.11	152	608211	40.00 mg/l	-0.04
19) Naphthalene-d8	6.45	136	2186931	40.00 mg/l	-0.04
35) Acenaphthene-d10	8.39	164	1298109	40.00 mg/l	-0.04
55) Phenanthrene-d10	10.03	188	2004492	40.00 mg/l	-0.04
68) Chrysene-d12	13.04	240	1678133	40.00 mg/l	-0.06
76) Perylene-d12	15.33	264	1245163	40.00 mg/l	-0.08
System Monitoring Compounds					
4) 2-Fluorophenol	3.90	112	1929821	88.01 mg/l	-0.04
Spiked Amount 100.000			Recovery = 88.01%		
6) Phenol-d6	4.80	99	2460140	91.59 mg/l	-0.04
Spiked Amount 100.000			Recovery = 91.59%		
20) Nitrobenzene-d5	5.72	82	2270429	95.76 mg/l	-0.04
Spiked Amount 100.000			Recovery = 95.76%		
40) 2-Fluorobiphenyl	7.66	172	3669754	89.39 mg/l	-0.04
Spiked Amount 100.000			Recovery = 89.39%		
59) 2,4,6-Tribromophenol	9.28	330	535908	91.64 mg/l	-0.05
Spiked Amount 100.000			Recovery = 91.64%		
70) p-Terphenyl-d14	11.83	244	3758707	84.61 mg/l	-0.04
Spiked Amount 100.000			Recovery = 84.61%		
Target Compounds					Qvalue
2) Pyridine	0.00	52	0	N.D.	
3) N-Nitrosodimethylamine	2.56	74	74	N.D.	
5) Aniline	0.00	93	0	N.D. d	
7) Phenol	4.81	94	2536270	89.41 mg/l	96
8) Bis(2-Chloroethyl) Ether	0.00	93	0	N.D. d	
9) 2-Chlorophenol	4.93	128	1918519	91.62 mg/l	97
10) 1,3-Dichlorobenzene	0.00	146	0	N.D. d	
11) 1,4-Dichlorobenzene	5.13	146	2029130	90.58 mg/l	99
12) Benzyl Alcohol	0.00	79	0	N.D. d	
13) 1,2-Dichlorobenzene	0.00	146	0	N.D. d	
14) 2-Methylphenol	5.13	108	11529	N.D.	
15) Bis(2-Chloroisopropyl) Eth	5.59	45	9556	N.D.	
16) 3/4-Methylphenol	5.58	107	41	N.D.	
17) N-Nitroso-di-n-propylamine	5.59	70	1511622	97.02 mg/l	95
18) Hexachloroethane	0.00	117	0	N.D.	
21) Nitrobenzene	5.72	77	8439	N.D.	
22) Isophorone	0.00	82	0	N.D. d	
23) 2-Nitrophenol	6.07	139	606	N.D.	

(#) = qualifier out of range (m) = manual integration

Data File : H:\HPCHEM\1\DATA\000406\06APR004.D Vial: 4
Acq On : 6 Apr 2000 1:49 pm Operator:
Sample : 8270S LCS 0404-5 Inst : GC/MS H
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 7 12:23 2000 Quant Results File: 000303.RES

Quant Method : H:\HPCHEM\1\METHODS\000303.M (RTE Integrator)
Title : BNA 8270/625 CALIBRATION
Last Update : Thu Feb 10 12:03:31 2000
Response via : Initial Calibration
DataAcq Meth : SVOA

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
24) 2,4-Dimethylphenol	0.00	107	0	N.D. d	
25) Benzoic Acid	6.45	105	2049	N.D.	
26) Bis(2-Chloroethoxy) Methan	6.25	93	105	N.D.	
27) 2,4-Dichlorophenol	6.35	162	1356	N.D.	
28) 1,2,4-Trichlorobenzene	6.41	180	1618325	93.46 mg/l	100
29) Naphthalene	6.52	128	125	N.D.	
30) 4-Chloroaniline	6.25	127	57	N.D.	
31) Hexachloro-1,3-Butadiene	0.00	225	0	N.D.	
32) 4-Chloro-3-Methylphenol	7.08	107	1769428	100.88 mg/l	98
33) 2-Methylnaphthalene	0.00	142	0	N.D. d	
34) 1-Methylnaphthalene	0.00	142	0	N.D. d	
36) Hexachlorocyclopentadiene	0.00	237	0	N.D.	
37) 2,4,6-Trichlorophenol	0.00	196	0	N.D.	
38) 2,4,5-Trichlorophenol	0.00	196	0	N.D.	
39) 2-Chloronaphthalene	7.72	162	102	N.D.	
41) 2-Nitroaniline	8.42	65	2933	N.D.	
42) Dimethyl Phthalate	0.00	163	0	N.D. d	
43) Acenaphthylene	0.00	152	0	N.D. d	
44) 3-Nitroaniline	8.43	138	3390	N.D.	
45) Acenaphthene	8.43	153	3168137	88.86 mg/l	95
46) 2,4-Dinitrophenol	8.66	184	708	N.D.	
47) 4-Nitrophenol	8.57	139	691577	91.20 mg/l	91
48) Dibenzofuran	8.66	168	576	N.D.	
49) 2,4-Dinitrotoluene	8.66	165	1130652	90.42 mg/l	94
50) 2,6-Dinitrotoluene	0.00	165	0	N.D. d	
51) Diethyl Phthalate	8.66	149	16769	N.D.	
52) 4-Chlorophenyl-Phenyl Ethe	8.80	204	49	N.D.	
53) Fluorene	9.28	166	35197	N.D.	
54) 4-Nitroaniline	8.67	138	1609	N.D.	
56) Azobenzene	9.28	77	4838	N.D.	
57) 4,6-Dinitro-2-Methylphenol	9.28	198	1573	N.D.	
58) N-Nitrosodiphenylamine	9.28	169	19077	N.D.	
60) 4-Bromophenyl-Phenyl Ether	0.00	248	0	N.D. d	
61) Hexachlorobenzene	0.00	284	0	N.D.	
62) Pentachlorophenol	9.89	266	688327	92.36 mg/l	99
63) Phenanthrene	10.05	178	378	N.D.	
64) Anthracene	10.10	178	44	N.D.	
65) Di-n-Butyl Phthalate	10.76	149	81	N.D.	
66) Fluoranthene	0.00	202	0	N.D. d	
67) Benzidine	0.00	184	0	N.D. d	

(#) = qualifier out of range (m) = manual integration

Data File : H:\HPCHEM\1\DATA\000406\06APR004.D Vial: 4
Acq On : 6 Apr 2000 1:49 pm Operator:
Sample : 8270S LCS 0404-5 Inst : GC/MS H
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 7 12:23 2000 Quant Results File: 000303.RES

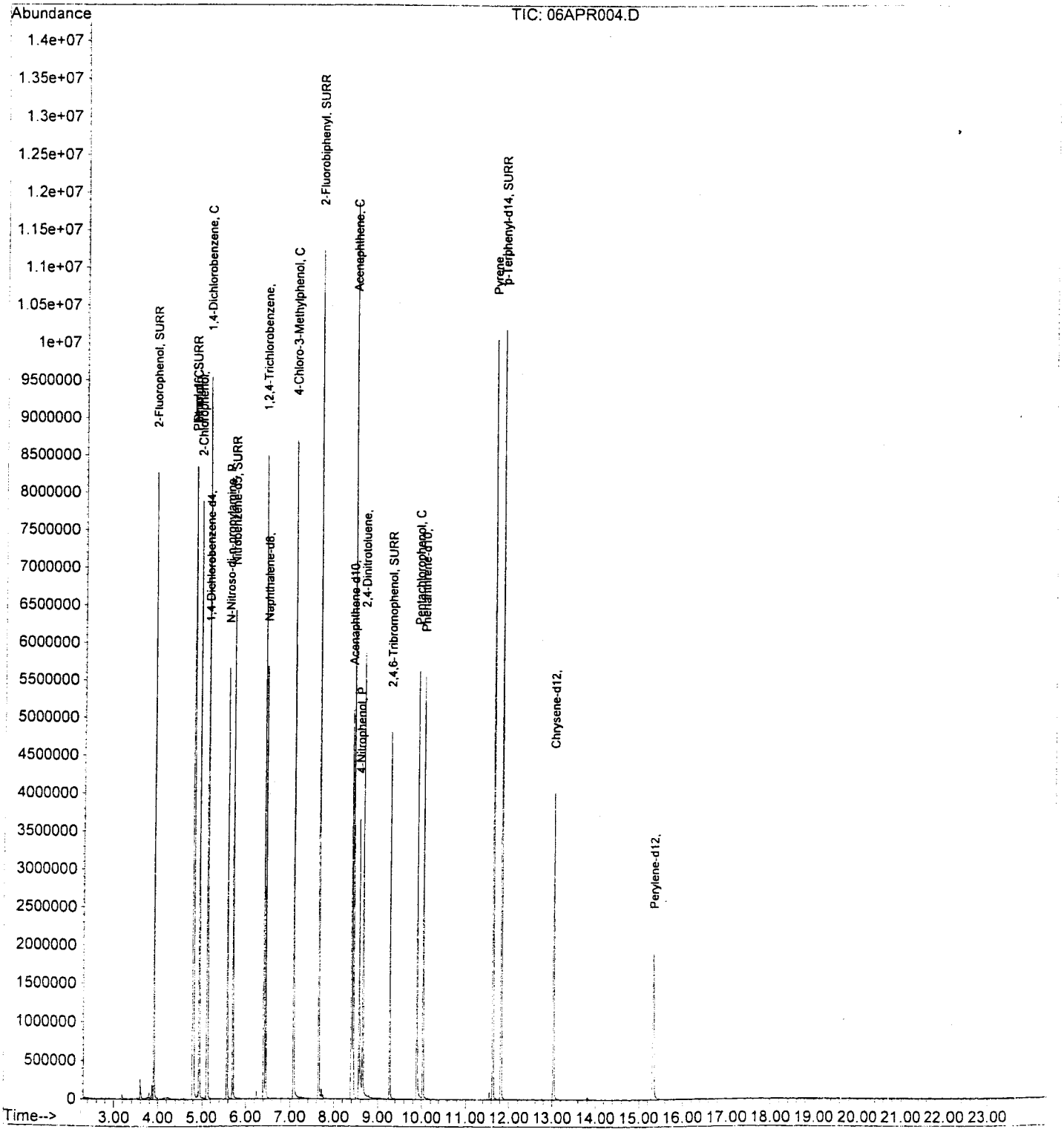
Quant Method : H:\HPCHEM\1\METHODS\000303.M (RTE Integrator)
Title : BNA 8270/625 CALIBRATION
Last Update : Thu Feb 10 12:03:31 2000
Response via : Initial Calibration
DataAcq Meth : SVOA

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
69) Pyrene	11.64	202	4944178	86.02 mg/l	98
71) Butyl Benzyl Phthalate	12.47	149	45	N.D.	
72) 3,3'-Dichlorobenzidine	13.05	252	43	N.D.	
73) Benzo (a) Anthracene	13.04	228	4363	N.D.	
74) Bis(2-Ethylhexyl) Phthalat	13.15	149	274	N.D.	
75) Chrysene	13.04	228	4363	N.D.	
77) Di-n-Octyl Phthalate	14.16	149	40	N.D.	
78) Benzo (b) Fluoranthene	0.00	252	0	N.D.	
79) Benzo (k) Fluoranthene	0.00	252	0	N.D.	
80) Benzo (a) Pyrene	15.34	252	4632	N.D.	
81) Indeno (1,2,3-c,d) Pyrene	0.00	276	0	N.D.	
82) Dibenz (a,h) Anthracene	0.00	278	0	N.D.	
83) Benzo (g,h,i) Perylene	0.00	276	0	N.D.	

(#) = qualifier out of range (m) = manual integration

Data File : H:\HPCHEM\1\DATA\000406\06APR004.D Vial: 4
Acq On : 6 Apr 2000 1:49 pm Operator:
Sample : 8270S LCS 0404-5 Inst : GC/MS H
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 7 12:23 2000 Quant Results File: 000303.RE

Method : H:\HPCHEM\1\METHODS\000303.M (RTE Integrator)
Title : BNA 8270/625 CALIBRATION
Last Update : Thu Feb 10 12:03:31 2000
Response via : Initial Calibration



Data File : H:\HPCHEM\1\DATA\000406\06APR005.D Vial: 5
Acq On : 6 Apr 2000 2:22 pm Operator:
Sample : 8270S LCSD 0404-5 Inst : GC/MS H
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 7 12:26 2000 Quant Results File: 000303.RES

Quant Method : H:\HPCHEM\1\METHODS\000303.M (RTE Integrator)
Title : BNA 8270/625 CALIBRATION
Last Update : Thu Feb 10 12:03:31 2000
Response via : Initial Calibration
DataAcq Meth : SVOA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.11	152	609172	40.00	mg/l	-0.04
19) Naphthalene-d8	6.45	136	2218220	40.00	mg/l	-0.04
35) Acenaphthene-d10	8.39	164	1342281	40.00	mg/l	-0.04
55) Phenanthrene-d10	10.03	188	2115090	40.00	mg/l	-0.04
68) Chrysene-d12	13.04	240	1876713	40.00	mg/l	-0.06
76) Perylene-d12	15.34	264	1383095	40.00	mg/l	-0.08
System Monitoring Compounds						
4) 2-Fluorophenol	3.90	112	1875710	85.41	mg/l	-0.04
Spiked Amount 100.000			Recovery = 85.41%			
6) Phenol-d6	4.80	99	2369607	88.08	mg/l	-0.04
Spiked Amount 100.000			Recovery = 88.08%			
20) Nitrobenzene-d5	5.72	82	2204092	91.65	mg/l	-0.04
Spiked Amount 100.000			Recovery = 91.65%			
40) 2-Fluorobiphenyl	7.65	172	3568151	84.05	mg/l	-0.04
Spiked Amount 100.000			Recovery = 84.05%			
59) 2,4,6-Tribromophenol	9.28	330	526270	85.29	mg/l	-0.05
Spiked Amount 100.000			Recovery = 85.29%			
70) p-Terphenyl-d14	11.83	244	3787910	76.24	mg/l	-0.04
Spiked Amount 100.000			Recovery = 76.24%			
Target Compounds						Qvalue
2) Pyridine	0.00	52	0	N.D.		
3) N-Nitrosodimethylamine	0.00	74	0	N.D.		
5) Aniline	0.00	93	0	N.D.	d	
7) Phenol	4.81	94	2445334	86.06	mg/l	96
8) Bis(2-Chloroethyl) Ether	0.00	93	0	N.D.	d	
9) 2-Chlorophenol	4.93	128	1848086	88.12	mg/l	98
10) 1,3-Dichlorobenzene	0.00	146	0	N.D.	d	
11) 1,4-Dichlorobenzene	5.13	146	1963862	87.53	mg/l	99
12) Benzyl Alcohol	0.00	79	0	N.D.	d	
13) 1,2-Dichlorobenzene	0.00	146	0	N.D.	d	
14) 2-Methylphenol	5.42	108	509	N.D.		
15) Bis(2-Chloroisopropyl) Eth	5.58	45	9159	N.D.		
16) 3/4-Methylphenol	5.42	107	601	N.D.		
17) N-Nitroso-di-n-propylamine	5.59	70	1453137	93.12	mg/l	95
18) Hexachloroethane	0.00	117	0	N.D.		
21) Nitrobenzene	5.71	77	8397	N.D.		
2) Isophorone	0.00	82	0	N.D.	d	
23) 2-Nitrophenol	6.09	139	115	N.D.		

(#) = qualifier out of range (m) = manual integration

Data File : H:\HPCHEM\1\DATA\000406\06APR005.D Vial: 5
Acq On : 6 Apr 2000 2:22 pm Operator:
Sample : 8270S LCSD 0404-5 Inst : GC/MS H
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 7 12:26 2000 Quant Results File: 000303.RES

Quant Method : H:\HPCHEM\1\METHODS\000303.M (RTE Integrator)
Title : BNA 8270/625 CALIBRATION
Last Update : Thu Feb 10 12:03:31 2000
Response via : Initial Calibration
DataAcq Meth : SVOA

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
24) 2,4-Dimethylphenol	0.00	107	0	N.D. d	
25) Benzoic Acid	6.46	105	1464	N.D.	
26) Bis(2-Chloroethoxy) Methan	6.40	93	1362	N.D.	
27) 2,4-Dichlorophenol	6.34	162	794	N.D.	
28) 1,2,4-Trichlorobenzene	6.41	180	1563640	89.03 mg/l	100
29) Naphthalene	6.52	128	160	N.D.	
30) 4-Chloroaniline	6.26	127	48	N.D.	
31) Hexachloro-1,3-Butadiene	0.00	225	0	N.D.	
32) 4-Chloro-3-Methylphenol	7.09	107	1725504	96.99 mg/l	97
33) 2-Methylnaphthalene	0.00	142	0	N.D. d	
34) 1-Methylnaphthalene	0.00	142	0	N.D. d	
36) Hexachlorocyclopentadiene	0.00	237	0	N.D.	
37) 2,4,6-Trichlorophenol	0.00	196	0	N.D.	
38) 2,4,5-Trichlorophenol	0.00	196	0	N.D.	
39) 2-Chloronaphthalene	7.71	162	45	N.D.	
41) 2-Nitroaniline	7.74	65	264	N.D.	
42) Dimethyl Phthalate	0.00	163	0	N.D. d	
43) Acenaphthylene	0.00	152	0	N.D. d	
44) 3-Nitroaniline	8.39	138	154	N.D.	
45) Acenaphthene	8.43	153	3138659	85.14 mg/l	94
46) 2,4-Dinitrophenol	8.65	184	276	N.D.	
47) 4-Nitrophenol	8.57	139	679256	86.62 mg/l	90
48) Dibenzofuran	8.66	168	1257	N.D.	
49) 2,4-Dinitrotoluene	8.66	165	1123298m	86.87 mg/l	
50) 2,6-Dinitrotoluene	0.00	165	0	N.D. d	
51) Diethyl Phthalate	8.66	149	16135	N.D.	
52) 4-Chlorophenyl-Phenyl Ethe	9.00	204	40	N.D.	
53) Fluorene	9.27	166	35415	N.D.	
54) 4-Nitroaniline	8.67	138	224	N.D.	
56) Azobenzene	0.00	77	0	N.D.	
57) 4,6-Dinitro-2-Methylphenol	9.27	198	1509	N.D.	
58) N-Nitrosodiphenylamine	9.27	169	18531	N.D.	
60) 4-Bromophenyl-Phenyl Ether	0.00	248	0	N.D. d	
61) Hexachlorobenzene	0.00	284	0	N.D.	
62) Pentachlorophenol	9.89	266	688838	87.60 mg/l	99
63) Phenanthrene	10.05	178	113	N.D.	
64) Anthracene	10.05	178	113	N.D.	
65) Di-n-Butyl Phthalate	10.75	149	1145	N.D.	
66) Fluoranthene	0.00	202	0	N.D. d	
67) Benzidine	0.00	184	0	N.D. d	

(#) = qualifier out of range (m) = manual integration

Data File : H:\HPCHEM\1\DATA\000406\06APR005.D Vial: 5
Acq On : 6 Apr 2000 2:22 pm Operator:
Sample : 8270S LCSD 0404-5 Inst : GC/MS H
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 7 12:26 2000 Quant Results File: 000303.RES

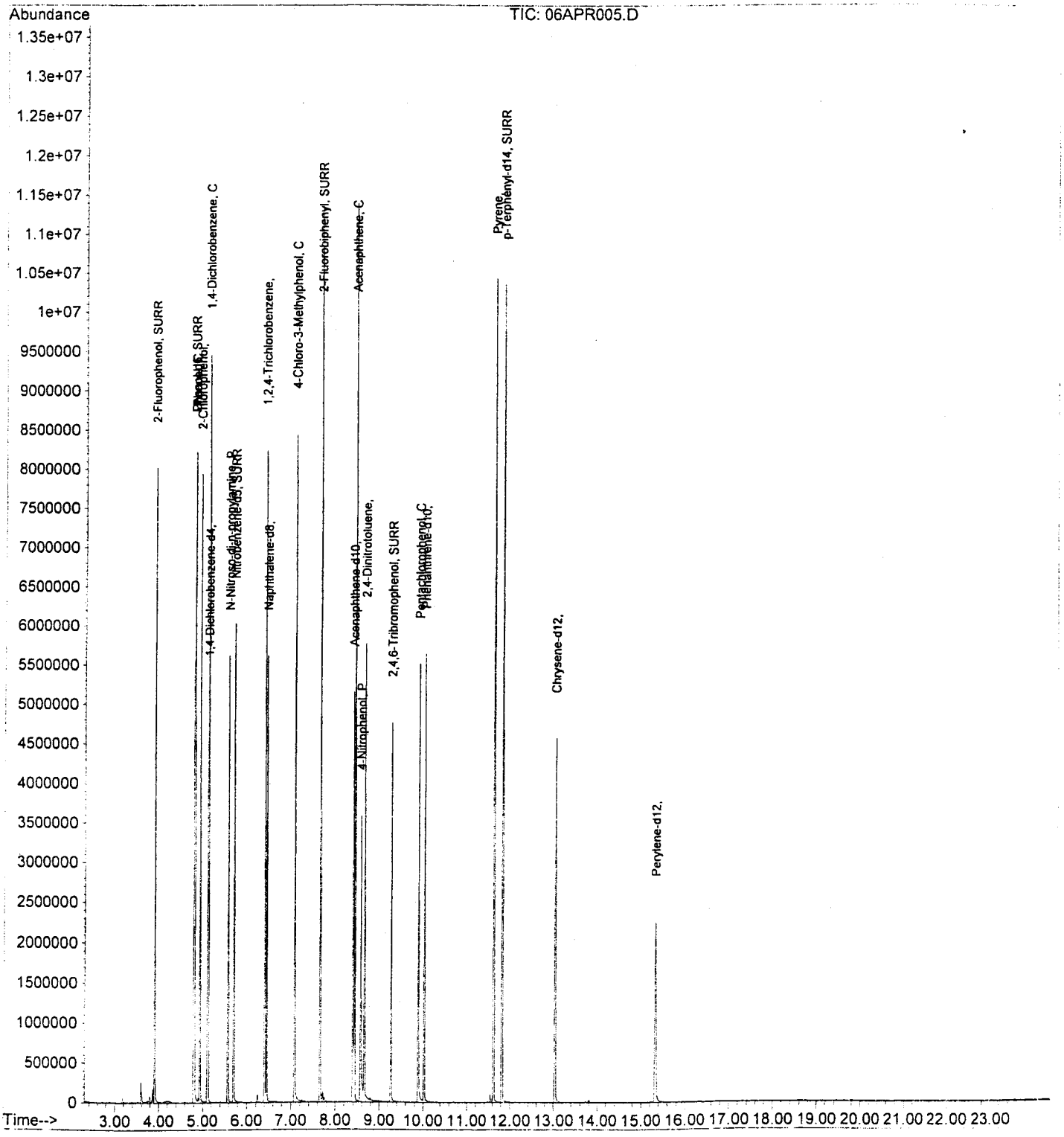
Quant Method : H:\HPCHEM\1\METHODS\000303.M (RTE Integrator)
Title : BNA 8270/625 CALIBRATION
Last Update : Thu Feb 10 12:03:31 2000
Response via : Initial Calibration
DataAcq Meth : SVOA

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
69) Pyrene	11.64	202	4984170	77.54 mg/l	98
71) Butyl Benzyl Phthalate	12.80	149	41	N.D.	
72) 3,3'-Dichlorobenzidine	0.00	252	0	N.D.	
73) Benzo (a) Anthracene	13.04	228	4728	N.D.	
74) Bis(2-Ethylhexyl) Phthalat	13.16	149	52	N.D.	
75) Chrysene	13.04	228	4728	N.D.	
77) Di-n-Octyl Phthalate	14.01	149	40	N.D.	
78) Benzo (b) Fluoranthene	0.00	252	0	N.D.	
79) Benzo (k) Fluoranthene	0.00	252	0	N.D.	
80) Benzo (a) Pyrene	15.33	252	4501	N.D.	
81) Indeno (1,2,3-c,d) Pyrene	0.00	276	0	N.D.	
82) Dibenz (a,h) Anthracene	0.00	278	0	N.D.	
83) Benzo (g,h,i) Perylene	0.00	276	0	N.D.	

(#) = qualifier out of range (m) = manual integration

Data File : H:\HPCHEM\1\DATA\000406\06APR005.D Vial: 5
Acq On : 6 Apr 2000 2:22 pm Operator:
Sample : 8270S LCSD 0404-5 Inst : GC/MS H
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 7 12:26 2000 Quant Results File: 000303.RES

Method : H:\HPCHEM\1\METHODS\000303.M (RTE Integrator)
Title : BNA 8270/625 CALIBRATION
Last Update : Thu Feb 10 12:03:31 2000
Response via : Initial Calibration



GEOMATRIX

Method Blank QC Data

Geomatrix Consultants

Data File : H:\HPCHEM\1\DATA\000406\06APR003.D Vial: 3
Acq On : 6 Apr 2000 1:15 pm Operator:
Sample : 8270S MB 0404-5 Inst : GC/MS H
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 7 12:20 2000 Quant Results File: 000303.RES

Quant Method : H:\HPCHEM\1\METHODS\000303.M (RTE Integrator)
Title : BNA 8270/625 CALIBRATION
Last Update : Thu Feb 10 12:03:31 2000
Response via : Initial Calibration
DataAcq Meth : SVOA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.11	152	681478	40.00	mg/l	-0.04
19) Naphthalene-d8	6.45	136	2433652	40.00	mg/l	-0.04
35) Acenaphthene-d10	8.39	164	1412429	40.00	mg/l	-0.04
55) Phenanthrene-d10	10.02	188	2114879	40.00	mg/l	-0.04
68) Chrysene-d12	13.04	240	1690877	40.00	mg/l	-0.06
76) Perylene-d12	15.33	264	1258343	40.00	mg/l	-0.08
System Monitoring Compounds						
4) 2-Fluorophenol	3.90	112	1844129	75.06	mg/l	-0.04
Spiked Amount 100.000			Recovery =	75.06%		
6) Phenol-d6	4.79	99	2286469	75.98	mg/l	-0.05
Spiked Amount 100.000			Recovery =	75.98%		
20) Nitrobenzene-d5	5.71	82	2151774	81.55	mg/l	-0.04
Spiked Amount 100.000			Recovery =	81.55%		
0) 2-Fluorobiphenyl	7.65	172	3410663	76.35	mg/l	-0.04
Spiked Amount 100.000			Recovery =	76.35%		
59) 2,4,6-Tribromophenol	9.28	330	488555	79.18	mg/l	-0.05
Spiked Amount 100.000			Recovery =	79.18%		
70) p-Terphenyl-d14	11.83	244	3412140	76.23	mg/l	-0.04
Spiked Amount 100.000			Recovery =	76.23%		
Target Compounds						Qvalue
2) Pyridine	0.00	52	0	N.D.		
3) N-Nitrosodimethylamine	0.00	74	0	N.D.		
5) Aniline	0.00	93	0	N.D.		
7) Phenol	4.84	94	39	N.D.		
8) Bis(2-Chloroethyl) Ether	0.00	93	0	N.D.		
9) 2-Chlorophenol	4.95	128	55	N.D.		
10) 1,3-Dichlorobenzene	5.11	146	166	N.D.		
11) 1,4-Dichlorobenzene	5.11	146	166	N.D.		
12) Benzyl Alcohol	0.00	79	0	N.D.	d	
13) 1,2-Dichlorobenzene	5.11	146	166	N.D.		
14) 2-Methylphenol	5.65	108	39	N.D.		
15) Bis(2-Chloroisopropyl) Eth	5.48	45	42	N.D.		
16) 3/4-Methylphenol	5.71	107	52	N.D.		
17) N-Nitroso-di-n-propylamine	0.00	70	0	N.D.	d	
18) Hexachloroethane	0.00	117	0	N.D.		
21) Nitrobenzene	5.71	77	8087	N.D.		
2) Isophorone	0.00	82	0	N.D.	d	
3) 2-Nitrophenol	6.44	139	280	N.D.		

(#) = qualifier out of range (m) = manual integration

Data File : H:\HPCHEM\1\DATA\000406\06APR003.D Vial: 3
Acq On : 6 Apr 2000 1:15 pm Operator:
Sample : 8270S MB 0404-5 Inst : GC/MS H
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 7 12:20 2000 Quant Results File: 000303.RE

Quant Method : H:\HPCHEM\1\METHODS\000303.M (RTE Integrator)
Title : BNA 8270/625 CALIBRATION
Last Update : Thu Feb 10 12:03:31 2000
Response via : Initial Calibration
DataAcq Meth : SVOA

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
24) 2,4-Dimethylphenol	6.45	107	14898	N.D.	
25) Benzoic Acid	6.32	105	192	N.D.	
26) Bis(2-Chloroethoxy) Methan	6.45	93	807	N.D.	
27) 2,4-Dichlorophenol	0.00	162	0	N.D.	
28) 1,2,4-Trichlorobenzene	0.00	180	0	N.D.	
29) Naphthalene	6.53	128	137	N.D.	
30) 4-Chloroaniline	6.63	127	40	N.D.	
31) Hexachloro-1,3-Butadiene	0.00	225	0	N.D.	
32) 4-Chloro-3-Methylphenol	7.10	107	40	N.D.	
33) 2-Methylnaphthalene	7.65	142	1859	N.D.	
34) 1-Methylnaphthalene	7.65	142	1859	N.D.	
36) Hexachlorocyclopentadiene	7.24	237	46	N.D.	
37) 2,4,6-Trichlorophenol	0.00	196	0	N.D.	
38) 2,4,5-Trichlorophenol	0.00	196	0	N.D.	
39) 2-Chloronaphthalene	7.72	162	127	N.D.	
41) 2-Nitroaniline	7.65	65	7429	N.D.	
42) Dimethyl Phthalate	0.00	163	0	N.D. d	
43) Acenaphthylene	8.08	152	49	N.D.	
44) 3-Nitroaniline	8.39	138	135	N.D.	
45) Acenaphthene	0.00	153	0	N.D.	
46) 2,4-Dinitrophenol	0.00	184	0	N.D.	
47) 4-Nitrophenol	0.00	139	0	N.D.	
48) Dibenzofuran	8.71	168	42	N.D.	
49) 2,4-Dinitrotoluene	0.00	165	0	N.D. d	
50) 2,6-Dinitrotoluene	0.00	165	0	N.D. d	
51) Diethyl Phthalate	8.93	149	7469	N.D.	
52) 4-Chlorophenyl-Phenyl Ethe	0.00	204	0	N.D.	
53) Fluorene	9.27	166	31630	N.D.	
54) 4-Nitroaniline	9.27	138	56	N.D.	
56) Azobenzene	9.20	77	131	N.D.	
57) 4,6-Dinitro-2-Methylphenol	9.27	198	729	N.D.	
58) N-Nitrosodiphenylamine	9.27	169	17320	N.D.	
60) 4-Bromophenyl-Phenyl Ether	0.00	248	0	N.D. d	
61) Hexachlorobenzene	0.00	284	0	N.D.	
62) Pentachlorophenol	0.00	266	0	N.D.	
63) Phenanthrene	10.02	178	1069	N.D.	
64) Anthracene	10.04	178	57	N.D.	
65) Di-n-Butyl Phthalate	10.74	149	111851	1.84 mg/l	99
66) Fluoranthene	11.82	202	10807	N.D.	
67) Benzidine	0.00	184	0	N.D. d	

(#) = qualifier out of range (m) = manual integration

Data File : H:\HPCHEM\1\DATA\000406\06APR003.D Vial: 3
Acq On : 6 Apr 2000 1:15 pm Operator:
Sample : 8270S MB 0404-5 Inst : GC/MS H
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 7 12:20 2000 Quant Results File: 000303.RES

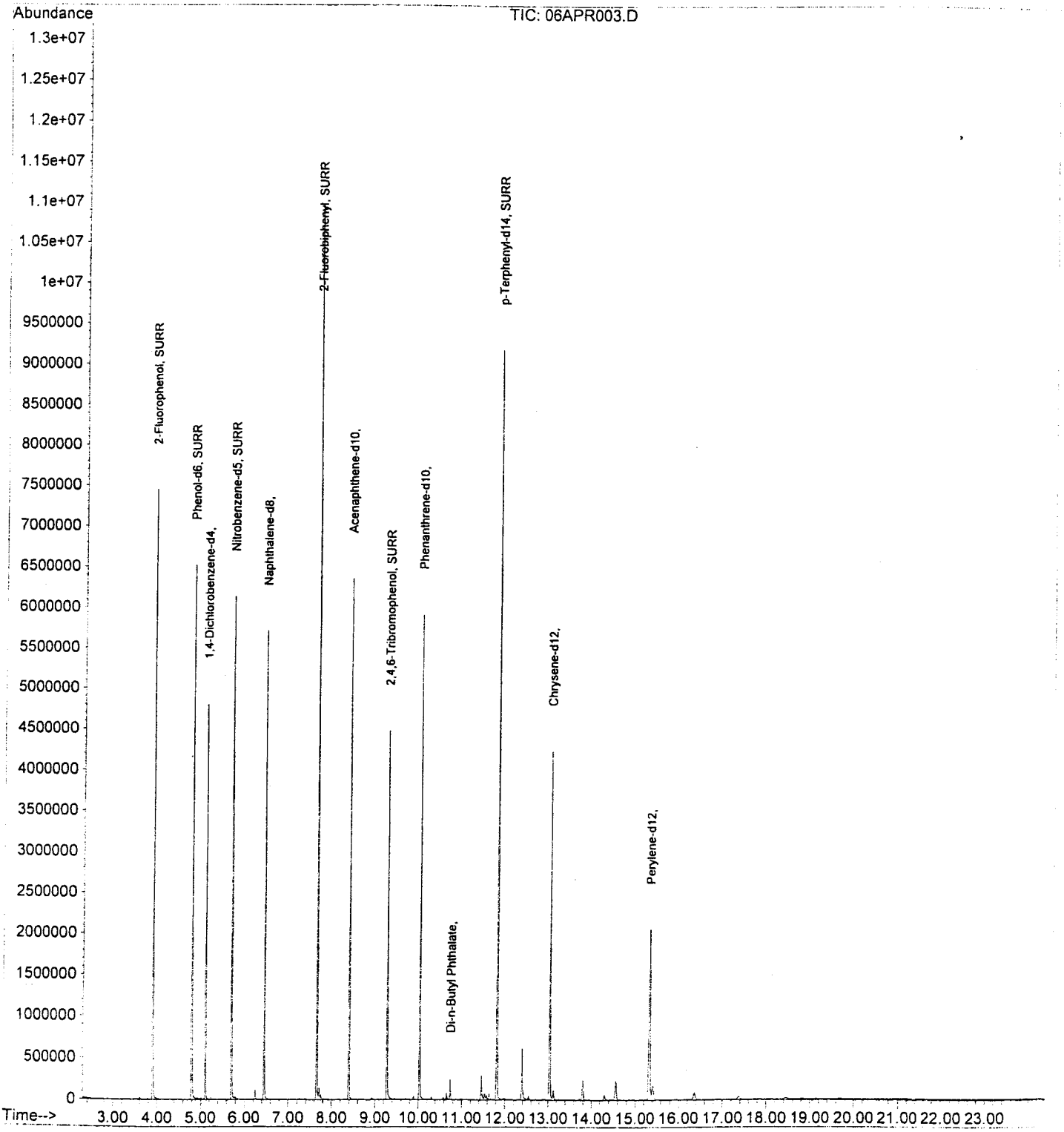
Quant Method : H:\HPCHEM\1\METHODS\000303.M (RTE Integrator)
Title : BNA 8270/625 CALIBRATION
Last Update : Thu Feb 10 12:03:31 2000
Response via : Initial Calibration
DataAcq Meth : SVOA

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
69)	Pyrene	11.82	202	10807	N.D.	
71)	Butyl Benzyl Phthalate	12.54	149	404	N.D.	
72)	3,3'-Dichlorobenzidine	13.04	252	86	N.D.	
73)	Benzo (a) Anthracene	13.04	228	4357	N.D.	
74)	Bis(2-Ethylhexyl) Phthalat	13.79	149	3983	N.D.	
75)	Chrysene	13.04	228	4357	N.D.	
77)	Di-n-Octyl Phthalate	13.79	149	3983	N.D.	
78)	Benzo (b) Fluoranthene	0.00	252	0	N.D.	
79)	Benzo (k) Fluoranthene	0.00	252	0	N.D.	
80)	Benzo (a) Pyrene	15.34	252	2335	N.D.	
81)	Indeno (1,2,3-c,d) Pyrene	0.00	276	0	N.D.	
82)	Dibenz (a,h) Anthracene	0.00	278	0	N.D.	
83)	Benzo (g,h,i) Perylene	0.00	276	0	N.D.	

(#) = qualifier out of range (m) = manual integration

Data File : H:\HPCHEM\1\DATA\000406\06APR003.D Vial: 3
Acq On : 6 Apr 2000 1:15 pm Operator:
Sample : 8270S MB 0404-5 Inst : GC/MS H
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 7 12:20 2000 Quant Results File: 000303.RES

Method : H:\HPCHEM\1\METHODS\000303.M (RTE Integrator)
Title : BNA 8270/625 CALIBRATION
Last Update : Thu Feb 10 12:03:31 2000
Response via : Initial Calibration



GEOMATRIX

Extraction Log

Geomatrix Consultants

(MS/MSD) Batch Number: _____

Start D=Date T=Time	pH Adjust D=Date T=Time	End D=Date T=Time	Matrix S=Soil A=Aqueous O=Oil Other(specify)	Extraction 1=3510 Sep 2=3520 C-LL 4=3540 Sox 5=3550 Son 8=3580 Dil	Client Name	Analysis	Work Order Number	Sample Initial (g/mL)	Sample Final (mL)	Solvent Lot Number	Solvent Name/ Symbol	Solvent Volume (mL)	Who	Comment
D) 3-20-00 T) 13:00	D) 3-20-00 T)	D) 3-20-00 T) 17:40	S A O	1 2 4 5 8	TEG	8270	00 . 03 . 0632 . 11	20.1	2	E2-30-9	CH2Cl2	43	YW	ASE
D) T)	D) T)	D) T)	S A O	1 2 4 5 8			. . . 12	20.0						
D) T)	D) T)	D) T)	S A O	1 2 4 5 8			. . . 13	19.9						
D) T)	D) T)	D) T)	S A O	1 2 4 5 8			. . . 14	19.7						
D) T)	D) T)	D) T)	S A O	1 2 4 5 8			. . . 15	20.0						
D) T)	D) T)	D) T)	S A O	1 2 4 5 8			. . . 16	20.1						
D) T)	D) T)	D) T)	S A O	1 2 4 5 8			. . . 17	20.2						
D) T)	D) T)	D) T)	S A O	1 2 4 5 8			. . . 18	20.0						
D) T)	D) T)	D) T)	S A O	1 2 4 5 8			. . . 19	20.2						
D) T)	D) T)	D) T)	S A O	1 2 4 5 8			. . . 20	20.0						
D) T)	D) T)	D) T)	S A O	1 2 4 5 8			. . . 21	19.8						
D) T)	D) T)	D) T)	S A O	1 2 4 5 8			. . . 31	20.0						
D) T)	D) T)	D) T)	S A O	1 2 4 5 8			. . . 32	20.1						
D) 4-4-00 T) 15:30	D) T)	D) 4-5-00 T) 14:30	S A O	1 2 4 5 8	GEOMAT	8270	00 . 03 . 1139 . 12	250	1	E2-30-22	CH2Cl2	360	C2	QAPP: 0086
D) T)	D) T)	D) T)	S A O	1 2 4 5 8			. . . 13	250	1					
D) T)	D) T)	D) T)	S A O	1 2 4 5 8			. . . 14	250	1					
D) T)	D) T)	D) T)	S A O	1 2 4 5 8			. . .							
D) T)	D) T)	D) T)	S A O	1 2 4 5 8			. . .							
D) T)	D) T)	D) T)	S A O	1 2 4 5 8			. . .							
D) T)	D) T)	D) T)	S A O	1 2 4 5 8			. . .							

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Reviewed by: _____ Date: _____ / _____ / _____

02/23/95 Revisi

(MS/MSD) Spiked Sample ID Number: ______

Work Order Number	(LCS/MB/SA) Batch Number	Surrogate			LCS			MS/MSD						Who	Comment
								Acid			B/N				
		Lot Number	Conc (ppm)	Volume (mL)	Lot Number	Conc (ppm)	Volume (mL)	Lot Number	Conc (ppm)	Volume (mL)	Lot Number	Conc (ppm)	Volume (mL)		
00 - 03 - 0632 11-21 -31,32	LCS0320-4	S0315001B	400	0.5	/	/	/	/	/	/	/	/	/	YY	
00 - 03 - 0632 - 11MS/D	↓	↓	↓	↓	↓	↓	↓	S0313600D	2000	0.1	S0313002C	1000	0.2	↓	
00 - 03 - 1139 12,13 14	LCS0404-5			0.25				/	/	/	/	/	/	CZ	
- - BLK -								/	/	/	/	/	/		
00 - 03 - 1139 14ms/D								S0313009	2000	0.05	S0307001B	1000	0.1		
- - LCS/LCSD	↓	↓	↓	↓	S0225001B	200	0.5	/	/	/	/	/	/	↓	
- - -															
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Reviewed by: ______ Date: ____/____/____

02/23/95 Revision

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GEOMATRIX

Metals (EPA 6020)
Raw Data

Geomatrix Consultants

GEOMATRIX

Instrument Run Log

Geomatrix Consultants

Date	Subdirectory	Data File	CEL ID No.	Sample Information: Initial Vol(ml)/wt(g)	Sample Information: Final Vol(ml)	Sample Information: Factor	Sample Information: Dilution	Int. Std. Lot Number	Standards: Lot Number	Standards: Conc (ppm)	Comments	Analyst
3/24/00	Mar2400.16A	17	00-03-696-1	50	50	1:1	1	M022500F				HR
		18	1^5			1:5	5					
		19	1^10			1:10	10					
		20	CRI-2	100	100	1:1	1		M080198C			
		21	ICSA						M070799A			
		22	ICSAB						B			
		23	CCV						M031000A	1/10	100 ppb	
		24	CCB									
		25	Tuning Semple						M012600B			
		26	CCV						M031000A	1/10	100ppb	
		27	CCB									
4/4/00	Apr0400.18A	1	Tuning Sample	100	100	1:1	1		M021500A			HR
		2	Cal blank									
		3										
		4										
		5										
		6	Cal 10ppb						M040400C	1/100	10ppb	
		7	50ppb							1/20	50ppb	
		8	100ppb							1/10	100ppb	
		9	200ppb							1/5	200ppb	
		10	ICV						M040400D	1/10	100ppb	
		11	ICB									

Date	Subdirectory	Data File	CEL ID No.	Sample Information: Initial Vol(ml)/wt(g)	Sample Information: Final Vol(ml)	Sample Information: Factor	Sample Information: Dilution	Int. Std. Lot Number	Standards: Lot Number	Standards: Conc (ppm)	Comments	Analyst
4/4/00	Apro400.18A	12	CRI-1	100	100	1:1	1	M022500F	M04040OC	1000	1ppb	HR
		13	ICSA						M04040OA			
		14	ICSAB						M04040OB			
		15	CCB									
		16	CCB									
		17	CCB									
		18	CRI-1						M04040OC	1/1000	1ppb	
		19	000404-MB-1	HR 4/4/00 50	50							
		20	000404-MB-1DUP									
		21	000404-LCS-1									
		22	000404-LCS-1DUP									
		23	00-03-1138-1	50								
		24	00-03-1138-1*5			1:5	5					
		25	CCV	100	100	1:1	1		M04040OC	1/10	100ppb	
		26	CCB									
		27	00-03-1138-1MS	50	50							
		28	00-03-1138-1MSD									
		29	00-03-1138-1PDS									
		30	00-03-1138-1PDSD									
		31	000404-MB-4									
		32	000404-MB-4DUP									
		33	00-0404-LCS-4									

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Date	Subdirectory	Data File	CEL ID No.	Sample Information: Initial Vol(ml)/wt(g)	Sample Information: Final Vol(ml)	Sample Information: Factor	Sample Information: Dilution	Int. Std. Lot Number	Standards: Lot Number	Standards: Conc (ppm)	Comments	Analyst
4/4/00	Apro400.18A	34	000404-LCS-4 DUP	50	50	1:1	1	M022500F				HR
		35	00-03-1139-12	4.0	100	1:10	10					
		36	00-03-1139-12MS	↓	↓	↓	↓					
		37	CCV	100		1:1	1		M040400C 1/10	100ppb		
		38	CCB	↓		↓	↓					
		39	00-03-1139-12MSD	4.0		1:10	10					
		40	00-03-1139-12PDS									
		41	00-03-1139-12PDSD									
		42	00-03-1139-13									
		43	00-03-1139-14									
		44	00-03-1139-14^SO	↓	↓	1:50	50					
		45	CRI-2	100	100	1:1	1		M080198C			
		46	ICSA						M040400A			
		47	ICSAB						M040400B			
		48	CCV						M040400C 1/10	100ppb		
		49	CCB									
		50	Tuning Sample						M021500A			
		51	CCV						M040400C 1/10	100ppb		
		52	CCB	↓	↓	↓	↓	↓				↓

GEOMATRIX

Digestion Log

Geomatrix Consultants

METALS SAMPLE PREPARATION

Calscience Environmental Laboratories, Inc.

MetPrep

MS Batch ID: 4-4-00-04-MS

Reagent Lot ID: 1a MW2-62-07 1b ____ 2a ____ 2b MW2-62-16 3a ____ 3b ____

* If digestion is not required due to turbidity < 1NTU, then record the turbidity run date.

Date*	Matrix S=Soil A=Aqueous Other(specify)	pH	Turb. (NTU)	Temp. (°C)	CEL ID Number	Analyte	Sample W(g)/Vol(mL) Initial	Sample W(g)/Vol(mL) Final	Reagent Lot Number (enter # above)	Reagent 1=HNO3 2=HCl 3=H2O2	MS/LCS added Lot Number	MS/LCS added Conc (ppm)	MS/LCS added Vol (mL)	Who
4-4-00	S A O	NA	NA	94°	Spike Sample 00-03-1139-12	metals	4.00	100	1a 1b 2a 2b 3a 3b	1 2 3	MC103600A MC32200A	100	1.00	KC
↓	S A O	↓	↓	↓	Spike Duplicate ↓	↓	↓	↓	1a 1b 2a 2b 3a 3b	1 2 3	↓	↓	↓	↓
↓	S A O	↓	↓	↓	000404-LCS-4	↓	100	↓	1a 1b 2a 2b 3a 3b	1 2 3	↓	↓	↓	↓
↓	S A O	↓	↓	↓	000404-MB-4	↓	↓	↓	1a 1b 2a 2b 3a 3b	1 2 3				↓
↓	S A O	↓	↓	↓	00-03-1139-12	↓	4.00	↓	1a 1b 2a 2b 3a 3b	1 2 3				↓
↓	S A O	↓	↓	↓	-13	↓	4.01	↓	1a 1b 2a 2b 3a 3b	1 2 3				↓
↓	S A O	↓	↓	↓	-14	↓	4.01	↓	1a 1b 2a 2b 3a 3b	1 2 3				↓
	S A O								1a 1b 2a 2b 3a 3b	1 2 3				
	S A O								1a 1b 2a 2b 3a 3b	1 2 3				
	S A O								1a 1b 2a 2b 3a 3b	1 2 3				
	S A O								1a 1b 2a 2b 3a 3b	1 2 3				
	S A O								1a 1b 2a 2b 3a 3b	1 2 3				
	S A O								1a 1b 2a 2b 3a 3b	1 2 3				
	S A O								1a 1b 2a 2b 3a 3b	1 2 3				
	S A O								1a 1b 2a 2b 3a 3b	1 2 3				
	S A O								1a 1b 2a 2b 3a 3b	1 2 3				
	S A O								1a 1b 2a 2b 3a 3b	1 2 3				
	S A O								1a 1b 2a 2b 3a 3b	1 2 3				
	S A O								1a 1b 2a 2b 3a 3b	1 2 3				
	S A O								1a 1b 2a 2b 3a 3b	1 2 3				
	S A O								1a 1b 2a 2b 3a 3b	1 2 3				
	S A O								1a 1b 2a 2b 3a 3b	1 2 3				
	S A O								1a 1b 2a 2b 3a 3b	1 2 3				
	S A O								1a 1b 2a 2b 3a 3b	1 2 3				
	S A O								1a 1b 2a 2b 3a 3b	1 2 3				
	S A O								1a 1b 2a 2b 3a 3b	1 2 3				
	S A O								1a 1b 2a 2b 3a 3b	1 2 3				
	S A O								1a 1b 2a 2b 3a 3b	1 2 3				
	S A O								1a 1b 2a 2b 3a 3b	1 2 3				
	S A O								1a 1b 2a 2b 3a 3b	1 2 3				
	S A O								1a 1b 2a 2b 3a 3b	1 2 3				

GEOMATRIX

Initial & Continuing Cal. Blanks
Raw Data

Geomatrix Consultants

File : C:\HPCHEM\1\DATA\Apr0400.18A\004CALB.D\004CALB.D#
Acquired : Apr 4 00 07:23 pm using AcqMethod M6020.M
Operator :
Sample Name: cal blank
Misc Info :
Vial Number: 3
CurrentMeth: C:\HPCHEM\1\METHODS\M6020.M
BkgFile : --------
Sample Type: CALBLK
Dilution : 1.000000

Mass	Element	Count		n	SD	RSD[%]
6	Li	135239.60	P	3	3521.00	2.60
7	Li	6438.77	P	3	118.60	1.84
9	Be	28.67	P	3	6.43	22.43
11	B	72018.17	P	3	2497.00	3.47
23	Na	124136.30	P	3	1419.00	1.14
24	Mg	7975.34	P	3	215.10	2.70
26	Mg	1222.47	P	3	62.43	5.11
27	Al	8186.01	P	3	166.60	2.04
28	Si	314964.00	P	3	6637.00	2.11
39	K	168419.80	P	3	2589.00	1.54
44	Ca	2019.68	P	3	67.12	3.32
45	Sc	161809.70	P	3	6059.00	3.74
47	Ti	42.67	P	3	3.06	7.16
50	Cr	304.53	P	3	283.20	93.01
51	V	993.15	P	3	21.42	2.16
52	Cr	2644.93	P	3	30.39	1.15
53	Cr	36.33	P	3	1.53	4.20
54	Fe	26876.78	P	3	516.40	1.92
55	Mn	1603.89	P	3	12.66	0.79
56	Fe	664995.80	P	3	13600.00	2.05
57	Fe	2200.75	P	3	69.89	3.18
59	Co	157.34	P	3	12.66	8.05
60	Ni	121.00	P	3	6.00	4.96
61	Ni	45.00	P	3	7.94	17.64
63	Cu	455.36	P	3	38.28	8.41
65	Cu	154.67	P	3	4.16	2.69
66	Zn	1051.44	P	3	40.27	3.83
68	Zn	737.06	P	3	13.23	1.79
75	As	106.87	P	3	3.80	3.56
76	Se	24240.48	P	3	583.80	2.41
77	Se	13.33	P	3	4.62	34.64
78	Se	230.60	P	3	107.80	46.75
82	Se	48.33	P	3	3.79	7.83
83	Kr	42.33	P	3	4.73	11.16
88	Sr	323.35	P	3	21.13	6.53
89	Y	195748.40	P	3	8118.00	4.15
95	Mo	39.33	P	3	3.22	8.17
98	Mo	67.00	P	3	13.08	19.52
105	Pd	147.01	P	3	14.80	10.07
107	Ag	115.34	P	3	5.69	4.93
108	Pd	6.67	P	3	4.04	60.62
109	Ag	115.67	P	3	2.31	2.00

File : C:\HPCHEM\1\DATA\Apr0400.18A\004CALB.D\004CALB.D#
Acquired : Apr 4 00 07:23 pm using AcqMethod M6020.M
Operator :
Sample Name: cal blank
Misc Info :
Vial Number: 3
CurrentMeth: C:\HPCHEM\1\METHODS\M6020.M
BkgFile : --------
Sample Type: CALBLK
Dilution : 1.000000

Mass	Element	Count		n	SD	RSD[%]
111	Cd	13.67	P	3	1.53	11.18
114	Cd	33.77	P	3	13.11	38.81
115	Sn	205731.00	P	3	7055.00	3.43
118	Sn	204.01	P	3	8.00	3.92
120	Sn	289.01	P	3	13.45	4.66
121	Sb	134.67	P	3	6.66	4.94
123	Sb	107.34	P	3	8.62	8.03
135	Ba	37.00	P	3	7.21	19.49
159	Tb	267034.40	P	3	9379.00	3.51
165	Ho	265172.80	P	3	11010.00	4.15
194	Pt	2.33	P	3	0.58	24.74
195	Pt	2.67	P	3	0.58	21.65
200	Hg	27.00	P	3	4.00	14.81
202	Hg	33.00	P	3	5.20	15.75
205	Tl	180.67	P	3	10.97	6.07
206	Pb	144.67	P	3	10.41	7.19
207	Pb	113.34	P	3	6.03	5.32
208	Pb	603.02	P	3	13.89	2.30
209	Bi	158512.30	P	3	5665.00	3.57

File : C:\HPCHEM\1\DATA\Apr0400.18A\005CALB.D\005CALB.D#
Acquired : Apr 4 00 07:29 pm using AcqMethod M6020.M
Operator :
Sample Name: cal blank
Misc Info :
Vial Number: 3
CurrentMeth: C:\HPCHEM\1\METHODS\M6020.M
BkgFile : --------
Sample Type: CALBLK
Dilution : 1.000000

Mass	Element	Count		n	SD	RSD[%]
6	Li	136334.00	P	3	2531.00	1.86
7	Li	6529.90	P	3	152.30	2.33
9	Be	22.33	P	3	4.51	20.19
11	B	62407.91	P	3	1807.00	2.89
23	Na	108180.90	P	3	1974.00	1.82
24	Mg	6929.82	P	3	106.10	1.53
26	Mg	1031.44	P	3	25.54	2.48
27	Al	8207.23	P	3	159.40	1.94
28	Si	308083.20	P	3	5534.00	1.80
39	K	169480.90	P	3	2043.00	1.21
44	Ca	1983.34	P	3	27.89	1.41
45	Sc	162769.50	P	3	2814.00	1.73
47	Ti	47.34	P	3	4.04	8.54
50	Cr	126.67	P	3	12.50	9.87
51	V	944.40	P	3	78.77	8.34
52	Cr	2694.95	P	3	66.32	2.46
53	Cr	49.00	P	3	15.13	30.88
54	Fe	26707.08	P	3	243.60	0.91
55	Mn	1553.88	P	3	46.77	3.01
56	Fe	652726.60	P	3	15090.00	2.31
57	Fe	2228.43	P	3	66.21	2.97
59	Co	126.34	P	3	8.74	6.92
60	Ni	123.34	P	3	20.31	16.46
61	Ni	50.67	P	3	7.37	14.55
63	Cu	404.69	P	3	37.17	9.18
65	Cu	143.67	P	3	20.31	14.13
66	Zn	1059.44	P	3	68.75	6.49
68	Zn	757.39	P	3	47.44	6.26
75	As	95.38	P	3	9.61	10.08
76	Se	24471.36	P	3	549.70	2.25
77	Se	13.67	P	3	2.08	15.23
78	Se	147.74	P	3	2.40	1.63
82	Se	45.00	P	3	3.61	8.01
83	Kr	41.00	P	3	3.61	8.79
88	Sr	267.68	P	3	15.01	5.61
89	Y	195901.30	P	3	7910.00	4.04
95	Mo	35.33	P	3	1.53	4.32
98	Mo	65.00	P	3	2.65	4.07
105	Pd	151.67	P	3	6.66	4.39
107	Ag	122.00	P	3	6.08	4.99
108	Pd	4.00	P	3	2.65	66.14
109	Ag	86.00	P	3	10.82	12.58

Calibration Blank QC Report

File : C:\HPCHEM\1\DATA\Apr0400.18A\005CALB.D\005CALB.D#
Acquired : Apr 4 00 07:29 pm using AcqMethod M6020.M
Operator :
Sample Name: cal blank
Misc Info :
Vial Number: 3
CurrentMeth: C:\HPCHEM\1\METHODS\M6020.M
BkgFile : --------
Sample Type: CALBLK
Dilution : 1.000000

Mass	Element	Count		n	SD	RSD[%]
111	Cd	17.67	P	3	0.58	3.27
114	Cd	37.08	P	3	7.86	21.20
115	Sn	206571.60	P	3	7876.00	3.81
118	Sn	184.01	P	3	12.49	6.79
120	Sn	280.01	P	3	14.00	5.00
121	Sb	121.34	P	3	11.59	9.55
123	Sb	113.34	P	3	10.97	9.68
135	Ba	39.00	P	3	1.00	2.56
159	Tb	270210.70	P	3	7290.00	2.70
165	Ho	268071.30	P	3	7552.00	2.82
194	Pt	2.67	P	3	1.53	57.28
195	Pt	2.67	P	3	2.89	108.25
200	Hg	28.00	P	3	6.56	23.42
202	Hg	34.00	P	3	4.00	11.76
205	Tl	160.67	P	3	13.65	8.50
206	Pb	138.34	P	3	18.90	13.67
207	Pb	107.34	P	3	1.16	1.08
208	Pb	574.36	P	3	40.28	7.01
209	Bi	160837.00	P	3	5065.00	3.15

GEOMATRIX

Initial Calibration
Raw Data

Geomatrix Consultants

Calibration QC Report

File : C:\HPCHEM\1\DATA\Apr0400.18A\006CALI.D\006CALI.D#
Acquired : Apr 4 00 07:34 pm using AcqMethod M6020.M
Operator :
Sample Name: cal 10 ppb
Misc Info :
Vial Number: 1102
CurrentMeth: C:\HPCHEM\1\METHODS\M6020.M
BkgFile : --------
Sample Type: CALIB
Dilution : 1.000000

Mass	Element	Count		n	SD	RSD [%]
6	Li	136189.10	P	3	4267.00	3.13
7	Li	6570.56	P	3	50.15	0.76
9	Be	5970.22	P	3	72.87	1.22
11	B	59867.60	P	3	1491.00	2.49
23	Na	111562.20	P	3	8770.00	7.86
24	Mg	23495.59	P	3	344.30	1.47
26	Mg	3644.77	P	3	135.20	3.71
27	Al	28315.41	P	3	1059.00	3.74
28	Si	295169.20	P	3	8460.00	2.87
39	K	186298.40	P	3	2036.00	1.09
44	Ca	2836.34	P	3	69.44	2.45
45	Sc	162202.10	P	3	4538.00	2.80
47	Ti	2222.08	P	3	80.60	3.63
50	Cr	3229.20	P	3	86.22	2.67
51	V	30569.58	P	3	342.70	1.12
52	Cr	28078.94	P	3	345.40	1.23
53	Cr	2990.07	P	3	133.90	4.48
54	Fe	27998.63	P	3	910.90	3.25
55	Mn	32826.08	P	3	470.30	1.43
56	Fe	681020.80	P	3	19620.00	2.88
57	Fe	2598.92	P	3	48.77	1.88
59	Co	26645.74	P	3	42.85	0.16
60	Ni	5873.07	P	3	62.92	1.07
61	Ni	296.35	P	3	26.28	8.87
63	Cu	13838.47	P	3	404.10	2.92
65	Cu	6279.79	P	3	26.15	0.42
66	Zn	4150.39	P	3	27.90	0.67
68	Zn	3049.76	P	3	81.94	2.69
75	As	3313.74	P	3	141.40	4.27
76	Se	24523.54	P	3	697.30	2.84
77	Se	195.34	P	3	1.16	0.59
78	Se	798.18	P	3	77.30	9.69
82	Se	293.35	P	3	16.01	5.46
83	Kr	34.67	P	3	13.58	39.16
88	Sr	31432.30	P	3	583.00	1.85
89	Y	195209.00	P	3	5734.00	2.94
95	Mo	5790.99	P	3	81.28	1.40
98	Mo	9315.41	P	3	372.90	4.00
105	Pd	136.67	P	3	26.54	19.42
107	Ag	16248.33	P	3	314.20	1.93
108	Pd	221.68	P	3	19.09	8.61
109	Ag	15619.55	P	3	269.80	1.73
111	Cd	3383.27	P	3	74.32	2.20

File : C:\HPCHEM\1\DATA\Apr0400.18A\006CALI.D\006CALI.D#
Acquired : Apr 4 00 07:34 pm using AcqMethod M6020.M
Operator :
Sample Name: cal 10 ppb
Misc Info :
Vial Number: 1102
CurrentMeth: C:\HPCHEM\1\METHODS\M6020.M
BkgFile : --------
Sample Type: CALIB
Dilution : 1.000000

Mass	Element	Count		n	SD	RSD [%]
114	Cd	7782.16	P	3	212.80	2.73
115	Sn	209082.50	P	3	9054.00	4.33
118	Sn	9946.02	P	3	165.00	1.66
120	Sn	13738.60	P	3	164.30	1.20
121	Sb	10716.86	P	3	117.20	1.09
123	Sb	8108.12	P	3	40.00	0.49
135	Ba	3028.75	P	3	36.52	1.21
159	Tb	268635.70	P	3	7154.00	2.66
165	Ho	266673.20	P	3	8599.00	3.22
194	Pt	3.00	P	3	1.73	57.74
195	Pt	4.67	P	3	1.53	32.73
200	Hg	28.33	P	3	6.03	21.27
202	Hg	37.67	P	3	5.69	15.10
205	Tl	28361.25	P	3	335.40	1.18
206	Pb	9796.48	P	3	231.00	2.36
207	Pb	8043.10	P	3	96.69	1.20
208	Pb	37805.55	P	3	775.40	2.05
209	Bi	160218.20	P	3	5683.00	3.55

Internal Standard QC Report

ISTD m/z	Ref. Counts	Sample Counts	Flag
45	162770	162202	Pass
89	195901	195209	Pass
115	206572	209083	Pass
159	270211	268636	Pass
165	268071	266673	Pass
209	160837	160218	Pass

Internal Standards referenced to 005CALB.D#

0 ISTD Failures. Maximum Number of ISTD Failures Allowed (0)

File : C:\HPCHEM\1\DATA\Apr0400.18A\007CALI.D\007CALI.D#
Acquired : Apr 4 00 07:40 pm using AcqMethod M6020.M
Operator :
Sample Name: cal 50 ppb
Misc Info :
Vial Number: 1103
CurrentMeth: C:\HPCHEM\1\METHODS\M6020.M
BkgFile : --------
Sample Type: CALIB
Dilution : 1.000000

Mass	Element	Count		n	SD	RSD[%]
6	Li	141646.50	P	3	8672.00	6.12
7	Li	6762.82	P	3	386.40	5.71
9	Be	31917.63	P	3	599.70	1.88
11	B	54947.23	P	3	879.30	1.60
23	Na	224863.30	P	3	4536.00	2.02
24	Mg	104576.60	P	3	2029.00	1.94
26	Mg	15840.53	P	3	647.60	4.09
27	Al	134522.70	P	3	3375.00	2.51
28	Si	344653.90	P	3	9275.00	2.69
39	K	299150.80	P	3	2333.00	0.78
44	Ca	8754.65	P	3	218.90	2.50
45	Sc	161361.40	P	3	10440.00	6.47
47	Ti	11494.23	P	3	79.63	0.69
50	Cr	16112.67	P	3	387.20	2.40
51	V	154840.30	P	3	639.70	0.41
52	Cr	136782.90	P	3	1845.00	1.35
53	Cr	15838.34	P	3	127.30	0.80
54	Fe	39345.94	P	3	717.60	1.82
55	Mn	171216.90	P	3	2947.00	1.72
56	Fe	791842.30	P	3	17180.00	2.17
57	Fe	5349.62	P	3	151.10	2.82
59	Co	140957.10	P	3	2068.00	1.47
60	Ni	31054.93	P	3	204.90	0.66
61	Ni	1402.18	P	3	40.72	2.90
63	Cu	70805.77	P	3	2088.00	2.95
65	Cu	32866.88	P	3	656.50	2.00
66	Zn	17775.19	P	3	276.90	1.56
68	Zn	13377.82	P	3	115.40	0.86
75	As	16516.74	P	3	159.30	0.96
76	Se	25447.98	P	3	512.60	2.01
77	Se	1053.44	P	3	18.77	1.78
78	Se	3233.08	P	3	138.90	4.30
82	Se	1290.82	P	3	71.18	5.51
83	Kr	37.00	P	3	7.55	20.41
88	Sr	165566.40	P	3	4620.00	2.79
89	Y	197599.50	P	3	15040.00	7.61
95	Mo	30503.57	P	3	650.90	2.13
98	Mo	49439.50	P	3	1024.00	2.07
105	Pd	149.01	P	3	13.23	8.88
107	Ag	87155.88	P	3	2044.00	2.35
108	Pd	1170.79	P	3	33.61	2.87
109	Ag	83597.68	P	3	390.30	0.47
111	Cd	17865.19	P	3	53.86	0.30

File : C:\HPCHEM\1\DATA\Apr0400.18A\007CALI.D\007CALI.D#
Acquired : Apr 4 00 07:40 pm using AcqMethod M6020.M
Operator :
Sample Name: cal 50 ppb
Misc Info :
Vial Number: 1103
CurrentMeth: C:\HPCHEM\1\METHODS\M6020.M
BkgFile : --------
Sample Type: CALIB
Dilution : 1.000000

Mass	Element	Count		n	SD	RSD[%]
114	Cd	40619.16	P	3	747.00	1.84
115	Sn	208316.20	P	3	16070.00	7.71
118	Sn	51919.07	P	3	962.50	1.85
120	Sn	71909.05	P	3	1077.00	1.50
121	Sb	56739.46	P	3	752.90	1.33
123	Sb	43322.32	P	3	528.70	1.22
135	Ba	15817.59	P	3	349.00	2.21
159	Tb	270879.60	P	3	17010.00	6.28
165	Ho	269219.50	P	3	16020.00	5.95
194	Pt	3.67	P	3	2.52	68.63
195	Pt	2.33	P	3	0.58	24.74
200	Hg	20.00	P	3	3.61	18.03
202	Hg	50.33	P	3	5.51	10.94
205	Tl	148790.00	P	3	3462.00	2.33
206	Pb	50819.10	P	3	1133.00	2.23
207	Pb	41565.08	P	3	574.80	1.38
208	Pb	196717.40	P	3	3048.00	1.55
209	Bi	160739.60	P	3	9072.00	5.64

Internal Standard QC Report

ISTD m/z	Ref. Counts	Sample Counts	Flag
45	162770	161361	Pass
89	195901	197600	Pass
115	206572	208316	Pass
159	270211	270880	Pass
165	268071	269220	Pass
209	160837	160740	Pass

Internal Standards referenced to 005CALB.D#

0 ISTD Failures. Maximum Number of ISTD Failures Allowed (0)

File : C:\HPCHEM\1\DATA\Apr0400.18A\008CALI.D\008CALI.D#
Acquired : Apr 4 00 07:46 pm using AcqMethod M6020.M
Operator :
Sample Name: cal 100 ppb
Misc Info :
Vial Number: 1104
CurrentMeth: C:\HPCHEM\1\METHODS\M6020.M
BkgFile : --------
Sample Type: CALIB
Dilution : 1.000000

Mass	Element	Count	n	SD	RSD[%]
6	Li	145573.10 P	3	7718.00	5.30
7	Li	6918.38 P	3	425.50	6.15
9	Be	63038.30 P	3	469.40	0.74
11	B	53487.01 P	3	2187.00	4.09
23	Na	447957.70 P	3	3471.00	0.77
24	Mg	216462.70 P	3	1652.00	0.76
26	Mg	32909.43 P	3	785.60	2.39
27	Al	265784.10 P	3	7693.00	2.89
28	Si	414447.30 P	3	18000.00	4.34
39	K	441502.20 P	3	7434.00	1.68
44	Ca	16751.98 P	3	174.50	1.04
45	Sc	164647.60 P	3	10290.00	6.25
47	Ti	23143.56 P	3	374.20	1.62
50	Cr	32671.01 P	3	1109.00	3.40
51	V	314592.40 P	3	8006.00	2.55
52	Cr	275432.50 P	3	3473.00	1.26
53	Cr	31557.48 P	3	310.00	0.98
54	Fe	51171.11 P	3	718.40	1.40
55	Mn	341681.70 P	3	6666.00	1.95
56	Fe	934642.80 P	3	32370.00	3.46
57	Fe	8684.21 P	3	77.35	0.89
59	Co	284932.30 P	3	4221.00	1.48
60	Ni	62001.92 P	3	1080.00	1.74
61	Ni	2786.65 P	3	53.05	1.90
63	Cu	144267.60 P	3	3697.00	2.56
65	Cu	66608.20 P	3	1425.00	2.14
66	Zn	34567.38 P	3	1083.00	3.13
68	Zn	26316.05 P	3	468.40	1.78
75	As	33408.93 P	3	846.70	2.53
76	Se	26448.25 P	3	316.80	1.20
77	Se	2040.02 P	3	85.57	4.19
78	Se	6331.66 P	3	261.40	4.13
82	Se	2569.89 P	3	112.10	4.36
83	Kr	54.67 P	3	4.51	8.25
88	Sr	340939.10 P	3	9080.00	2.66
89	Y	202039.80 P	3	16210.00	8.02
95	Mo	60969.01 P	3	2091.00	3.43
98	Mo	99712.40 P	3	1826.00	1.83
105	Pd	178.01 P	3	9.54	5.36
107	Ag	177454.30 P	3	4484.00	2.53
108	Pd	2376.81 P	3	103.40	4.35
109	Ag	168793.70 P	3	1704.00	1.01
111	Cd	36052.53 P	3	288.20	0.80

File : C:\HPCHEM\1\DATA\Apr0400.18A\008CALI.D\008CALI.D#
Acquired : Apr 4 00 07:46 pm using AcqMethod M6020.M
Operator :
Sample Name: cal 100 ppb
Misc Info :
Vial Number: 1104
CurrentMeth: C:\HPCHEM\1\METHODS\M6020.M
BkgFile : --------
Sample Type: CALIB
Dilution : 1.000000

Mass	Element	Count		n	SD	RSD[%]
114	Cd	81810.73	P	3	1608.00	1.97
115	Sn	213043.70	P	3	15270.00	7.17
118	Sn	105857.90	P	3	1818.00	1.72
120	Sn	144982.30	P	3	2924.00	2.02
121	Sb	114813.00	P	3	2028.00	1.77
123	Sb	87399.37	P	3	2016.00	2.31
135	Ba	31578.01	P	3	633.50	2.01
159	Tb	274441.40	P	3	17040.00	6.21
165	Ho	271855.60	P	3	17610.00	6.48
194	Pt	1.33	P	3	0.58	43.30
195	Pt	2.67	P	3	2.08	78.06
200	Hg	19.00	P	3	1.73	9.12
202	Hg	65.67	P	3	4.16	6.34
205	Tl	300242.70	P	3	5394.00	1.80
206	Pb	103101.60	P	3	2331.00	2.26
207	Pb	84846.71	P	3	1351.00	1.59
208	Pb	398907.00	P	3	6514.00	1.63
209	Bi	163880.70	P	3	9672.00	5.90

Internal Standard QC Report

ISTD m/z	Ref. Counts	Sample Counts	Flag
45	162770	164648	Pass
89	195901	202040	Pass
115	206572	213044	Pass
159	270211	274441	Pass
165	268071	271856	Pass
209	160837	163881	Pass

Internal Standards referenced to 005CALB.D#

0 ISTD Failures. Maximum Number of ISTD Failures Allowed (0)

Calibration QC Report

File : C:\HPCHEM\1\DATA\Apr0400.18A\009CALI.D\009CALI.D#
Acquired : Apr 4 00 07:51 pm using AcqMethod M6020.M
Operator :
Sample Name: cal 200 ppb
Misc Info :
Vial Number: 1105
CurrentMeth: C:\HPCHEM\1\METHODS\M6020.M
BkgFile : --------
Sample Type: CALIB
Dilution : 1.000000

Mass	Element	Count		n	SD	RSD[%]
6	Li	148735.00	P	3	4491.00	3.02
7	Li	7233.69	P	3	242.40	3.35
9	Be	132179.10	P	3	1405.00	1.06
11	B	52336.81	P	3	2794.00	5.34
23	Na	749891.50	P	3	19840.00	2.65
24	Mg	437435.30	P	3	13660.00	3.12
26	Mg	65553.02	P	3	1054.00	1.61
27	Al	551808.30	P	3	6623.00	1.20
28	Si	578320.20	P	3	32140.00	5.56
39	K	746507.70	P	3	12420.00	1.66
44	Ca	33224.46	P	3	272.40	0.82
45	Sc	176440.40	P	3	3897.00	2.21
47	Ti	47763.43	P	3	662.60	1.39
50	Cr	67901.34	P	3	557.10	0.82
51	V	645848.30	P	3	15890.00	2.46
52	Cr	559949.30	P	3	9693.00	1.73
53	Cr	65375.08	P	3	263.30	0.40
54	Fe	77792.24	P	3	887.00	1.14
55	Mn	714493.70	P	3	10090.00	1.41
56	Fe	1242776.00	P	3	27710.00	2.23
57	Fe	15714.37	P	3	197.90	1.26
59	Co	579383.20	P	3	10040.00	1.73
60	Ni	127878.90	P	3	3091.00	2.42
61	Ni	5618.86	P	3	141.10	2.51
63	Cu	291840.80	P	3	3272.00	1.12
65	Cu	135703.00	P	3	2701.00	1.99
66	Zn	71646.35	P	3	1003.00	1.40
68	Zn	53837.38	P	3	1075.00	2.00
75	As	68401.82	P	3	1273.00	1.86
76	Se	28717.03	P	3	437.40	1.52
77	Se	4282.49	P	3	211.10	4.93
78	Se	12502.26	P	3	361.00	2.89
82	Se	5301.92	P	3	181.50	3.42
83	Kr	49.00	P	3	1.00	2.04
88	Sr	699315.80	P	3	25020.00	3.58
89	Y	216394.50	P	3	9321.00	4.31
95	Mo	126900.40	P	3	1964.00	1.55
98	Mo	206581.90	P	3	1666.00	0.81
105	Pd	235.34	P	3	22.19	9.43
107	Ag	366784.70	P	3	10500.00	2.86
108	Pd	4873.90	P	3	109.70	2.25
109	Ag	353600.10	P	3	4713.00	1.33
111	Cd	76382.72	P	3	1487.00	1.95

Calibration QC Report

File : C:\HPCHEM\1\DATA\Apr0400.18A\009CALI.D\009CALI.D#
Acquired : Apr 4 00 07:51 pm using AcqMethod M6020.M
Operator :
Sample Name: cal 200 ppb
Misc Info :
Vial Number: 1105
CurrentMeth: C:\HPCHEM\1\METHODS\M6020.M
BkgFile : --------
Sample Type: CALIB
Dilution : 1.000000

Mass	Element	Count		n	SD	RSD[%]
114	Cd	169432.50	P	3	2460.00	1.45
115	Sn	226687.10	P	3	5401.00	2.38
118	Sn	219478.70	P	3	2868.00	1.31
120	Sn	302963.70	P	3	6276.00	2.07
121	Sb	239894.20	P	3	4573.00	1.91
123	Sb	183172.10	P	3	2408.00	1.31
135	Ba	65520.47	P	3	1084.00	1.66
159	Tb	297348.20	P	3	7616.00	2.56
165	Ho	297559.00	P	3	9514.00	3.20
194	Pt	4.67	P	3	1.53	32.73
195	Pt	2.00	P	3	2.00	100.00
200	Hg	19.67	P	3	4.73	24.03
202	Hg	111.67	P	3	4.73	4.23
205	Tl	630975.70	P	3	3091.00	0.49
206	Pb	217186.10	P	3	3197.00	1.47
207	Pb	176964.00	P	3	2682.00	1.52
208	Pb	837307.20	P	3	12990.00	1.55
209	Bi	181210.90	P	3	7303.00	4.03

Internal Standard QC Report

ISTD m/z	Ref. Counts	Sample Counts	Flag
45	162770	176440	Pass
89	195901	216395	Pass
115	206572	226687	Pass
159	270211	297348	Pass
165	268071	297559	Pass
209	160837	181211	Pass

Internal Standards referenced to 005CALB.D#

0 ISTD Failures. Maximum Number of ISTD Failures Allowed (0)

GEOMATRIX

Initial Calibration Verification
Raw Data

Geomatrix Consultants

File : C:\HPCHEM\1\DATA\Apr0400.18A\010ICV_.D\010ICV_.D#
Acquired : Apr 4 00 07:57 pm using AcqMethod M6020.M
Operator :
Sample Name: ICV 100 ppb
Misc Info :
Vial Number: 1106
CurrentMeth: C:\HPCHEM\1\METHODS\M6020.M
BkgFile : --------
Sample Type: ICV
Dilution : 1.000000

ICV Mix #1

Element		Concentration		Expected	QC Range	Flag
Be	9	95.720	ppb	100.00	90.00-110.00	Pass
B	11	-459.200	ppb	100.00	90.00-110.00	*Fail*
Na	23	87.600	ppb	100.00	90.00-110.00	*Fail*
Mg	24	94.980	ppb	100.00	90.00-110.00	Pass
Al	27	90.550	ppb	100.00	90.00-110.00	Pass
K	39	968.500	ppb	100.00	90.00-110.00	*Fail*
Ca	44	99.000	ppb	100.00	90.00-110.00	Pass
Ti	47	93.020	ppb	100.00	90.00-110.00	Pass
V	51	97.430	ppb	100.00	90.00-110.00	Pass
Cr	52	95.770	ppb	100.00	90.00-110.00	Pass
Fe	54	82.480	ppb	100.00	90.00-110.00	*Fail*
Mn	55	98.470	ppb	100.00	90.00-110.00	Pass
Fe	57	90.810	ppb	100.00	90.00-110.00	Pass
Co	59	97.030	ppb	100.00	90.00-110.00	Pass
Ni	60	96.680	ppb	100.00	90.00-110.00	Pass
Cu	65	99.900	ppb	100.00	90.00-110.00	Pass
Zn	68	100.500	ppb	100.00	90.00-110.00	Pass
As	75	98.200	ppb	100.00	90.00-110.00	Pass
Se	78	97.970	ppb	100.00	90.00-110.00	Pass
Se	82	96.160	ppb	100.00	90.00-110.00	Pass
Sr	88	99.240	ppb	100.00	90.00-110.00	Pass
Mo	95	98.400	ppb	100.00	90.00-110.00	Pass
Ag	107	48.720	ppb	50.00	45.00-55.00	Pass
Cd	114	95.750	ppb	100.00	90.00-110.00	Pass
Sn	120	97.290	ppb	100.00	90.00-110.00	Pass
Sb	123	94.240	ppb	100.00	90.00-110.00	Pass
Ba	135	96.830	ppb	100.00	90.00-110.00	Pass
Tl	205	101.400	ppb	100.00	90.00-110.00	Pass
Pb	208	101.400	ppb	100.00	90.00-110.00	Pass

Internal Standard QC Report

ISTD m/z	Ref. Counts	Sample Counts	Flag
45	162770	178408	Pass
89	195901	216389	Pass
115	206572	227219	Pass
159	270211	296750	Pass
165	268071	296954	Pass
209	160837	176182	Pass

Internal Standards referenced to 005CALB.D#

4 Element Failures! Maximum Number of Allowed Failures (0) Exceeded!

Blank QC Report

File : C:\HPCHEM\1\DATA\Apr0400.18A\011CCB_.D\011CCB_.D#
Acquired : Apr 4 00 08:03 pm using AcqMethod M6020.M
Operator :
Sample Name: ICB (CCB type used)
Misc Info :
Vial Number: 3
CurrentMeth: C:\HPCHEM\1\METHODS\M6020.M
BkgFile : --------
Sample Type: CCB
Dilution : 1.000000

Element		Concentration		CRDL Limit	Flag
Be	9	0.147	ppb	1.00	Pass
B	11	205.400	ppb	1.00	*Fail*
Na	23	-6.845	ppb	1.00	*Fail*
Mg	24	-0.300	ppb	1.00	Pass
Al	27	0.126	ppb	1.00	Pass
K	39	-0.209	ppb	1.00	Pass
Ca	44	-0.831	ppb	1.00	Pass
Ti	47	0.131	ppb	1.00	Pass
V	51	0.160	ppb	1.00	Pass
Cr	52	0.148	ppb	1.00	Pass
Fe	54	-4.384	ppb	1.00	*Fail*
Mn	55	0.167	ppb	1.00	Pass
Fe	57	-0.197	ppb	1.00	Pass
Co	59	0.169	ppb	1.00	Pass
Ni	60	0.150	ppb	1.00	Pass
Cu	65	0.137	ppb	1.00	Pass
Zn	68	0.009	ppb	1.00	Pass
As	75	0.208	ppb	1.00	Pass
Se	78	1.612	ppb	1.00	*Fail*
Se	82	0.238	ppb	1.00	Pass
Sr	88	0.155	ppb	1.00	Pass
Mo	95	0.235	ppb	1.00	Pass
Ag	107	0.194	ppb	1.00	Pass
Cd	114	0.141	ppb	1.00	Pass
Sn	120	0.184	ppb	1.00	Pass
Sb	123	0.448	ppb	1.00	Pass
Ba	135	0.170	ppb	1.00	Pass
Tl	205	0.166	ppb	1.00	Pass
Pb	208	0.160	ppb	1.00	Pass

Internal Standard QC Report

ISTD m/z	Ref. Counts	Sample Counts	Flag
45	162770	163445	Pass
89	195901	202650	Pass
115	206572	212602	Pass
159	270211	276531	Pass
165	268071	275336	Pass
209	160837	163944	Pass

Internal Standards referenced to 005CALB.D#

4 Element Failures! Maximum Number of Allowed Failures (0) Exceeded!
0 ISTD Failures. Maximum Number of ISTD Failures Allowed (0)

GEOMATRIX

ICP Interference Check Sample Raw Data

Geomatrix Consultants

Interference Check AB QC Report

File : C:\HPCHEM\1\DATA\Apr0400.18A\014ICSB.D\014ICSB.D#
Acquired : Apr 4 00 08:21 pm using AcqMethod M6020.M
Operator :
Sample Name: ICSAB
Misc Info :
Vial Number: 1204
CurrentMeth: C:\HPCHEM\1\METHODS\M6020.M
BkgFile : --------
Sample Type: ICS_AB
Dilution : 1.000000

Element		Concentration		Expected	CRDL Range Conc	%Range Conc	Flag
Be	9	-0.007	ppb	0.00	-1.00-1.00	0-0	Pass
B	11	382.700	ppb	0.00	-1.00-1.00	0-0	*Fail*
Na	23	21450.000	ppb	250.00	249.00-251.00	250-250	*Fail*
Mg	24	8249.000	ppb	100.00	99.00-101.00	100-100	*Fail*
Al	27	8084.000	ppb	100.00	99.00-101.00	100-100	*Fail*
K	39	9735.000	ppb	100.00	99.00-101.00	100-100	*Fail*
Ca	44	14920.000	ppb	300.00	299.00-301.00	300-300	*Fail*
Ti	47	196.200	ppb	2.00	1.00-3.00	2-2	*Fail*
V	51	19.040	ppb	20.00	19.00-21.00	20-20	Pass
Cr	52	18.930	ppb	20.00	19.00-21.00	20-20	*Fail*
Fe	54	16280.000	ppb	250.00	249.00-251.00	250-250	*Fail*
Mn	55	19.410	ppb	20.00	19.00-21.00	20-20	Pass
Fe	57	23540.000	ppb	250.00	249.00-251.00	250-250	*Fail*
Co	59	18.160	ppb	20.00	19.00-21.00	20-20	*Fail*
Ni	60	17.910	ppb	20.00	19.00-21.00	20-20	*Fail*
Cu	65	20.050	ppb	20.00	19.00-21.00	20-20	Pass
Zn	68	10.230	ppb	10.00	9.00-11.00	10-10	Pass
As	75	9.939	ppb	10.00	9.00-11.00	10-10	Pass
Se	78	9.474	ppb	10.00	9.00-11.00	10-10	Pass
Se	82	9.761	ppb	10.00	9.00-11.00	10-10	Pass
Sr	88	1.284	ppb	0.00	-1.00-1.00	0-0	*Fail*
Mo	95	197.900	ppb	2.00	1.00-3.00	2-2	*Fail*
Ag	107	4.935	ppb	5.00	4.00-6.00	5-5	Pass
Cd	114	9.332	ppb	10.00	9.00-11.00	10-10	Pass
Sn	120	1.301	ppb	0.00	-1.00-1.00	0-0	*Fail*
Sb	123	0.837	ppb	0.00	-1.00-1.00	0-0	Pass
Ba	135	0.038	ppb	0.00	-1.00-1.00	0-0	Pass
Tl	205	-0.013	ppb	0.00	-1.00-1.00	0-0	Pass
Pb	208	0.260	ppb	0.00	-1.00-1.00	0-0	Pass

Internal Standard QC Report

ISTD m/z	Ref. Counts	Sample Counts	Flag
45	162770	214260	Pass
89	195901	235195	Pass
115	206572	224915	Pass
159	270211	324710	Pass
165	268071	326543	Pass
209	160837	194977	Pass

Internal Standards referenced to 005CALB.D#

15 Element Failures! Maximum Number of Allowed Failures (0) Exceeded!
0 ISTD Failures. Maximum Number of ISTD Failures Allowed (0)

GEOMATRIX

Continuing Calibration Verification
Raw Data

Geomatrix Consultants

File : C:\HPCHEM\1\DATA\Apr0400.18A\025CCV_.D\025CCV_.D#
Acquired : Apr 4 00 09:27 pm using AcqMethod M6020.M
Operator :
Sample Name: ccv 100 ppb
Misc Info :
Vial Number: 1104
CurrentMeth: C:\HPCHEM\1\METHODS\M6020.M
BkgFile : --------
Sample Type: CCV
Dilution : 1.000000

CCV Mix #1

Element		Concentration		Expected	QC Range	Flag
Be	9	102.400	ppb	100.00	90.00-110.00	Pass
B	11	381.600	ppb	100.00	90.00-110.00	*Fail*
Na	23	81.220	ppb	100.00	90.00-110.00	*Fail*
Mg	24	102.100	ppb	100.00	90.00-110.00	Pass
Al	27	101.100	ppb	100.00	90.00-110.00	Pass
K	39	99.260	ppb	100.00	90.00-110.00	Pass
Ca	44	99.800	ppb	100.00	90.00-110.00	Pass
Ti	47	103.100	ppb	100.00	90.00-110.00	Pass
V	51	103.500	ppb	100.00	90.00-110.00	Pass
Cr	52	104.500	ppb	100.00	90.00-110.00	Pass
Fe	54	93.620	ppb	100.00	90.00-110.00	Pass
Mn	55	102.900	ppb	100.00	90.00-110.00	Pass
Fe	57	103.600	ppb	100.00	90.00-110.00	Pass
Co	59	106.400	ppb	100.00	90.00-110.00	Pass
Ni	60	104.000	ppb	100.00	90.00-110.00	Pass
Cu	65	103.900	ppb	100.00	90.00-110.00	Pass
Zn	68	102.400	ppb	100.00	90.00-110.00	Pass
As	75	103.400	ppb	100.00	90.00-110.00	Pass
Se	78	102.400	ppb	100.00	90.00-110.00	Pass
Se	82	102.700	ppb	100.00	90.00-110.00	Pass
Sr	88	104.200	ppb	100.00	90.00-110.00	Pass
Mo	95	105.500	ppb	100.00	90.00-110.00	Pass
Ag	107	101.500	ppb	100.00	90.00-110.00	Pass
Cd	114	103.500	ppb	100.00	90.00-110.00	Pass
Sn	120	102.500	ppb	100.00	90.00-110.00	Pass
Sb	123	103.800	ppb	100.00	90.00-110.00	Pass
Ba	135	105.700	ppb	100.00	90.00-110.00	Pass
Tl	205	102.900	ppb	100.00	90.00-110.00	Pass
Pb	208	103.600	ppb	100.00	90.00-110.00	Pass

Internal Standard QC Report

ISTD m/z	Ref. Counts	Sample Counts	Flag
45	162770	174567	Pass
89	195901	217395	Pass
115	206572	232768	Pass
159	270211	301343	Pass
165	268071	299456	Pass
209	160837	181807	Pass

Internal Standards referenced to 005CALB.D#

2 Element Failures! Maximum Number of Allowed Failures (0) Exceeded!

Blank QC Report

File : C:\HPCHEM\1\DATA\Apr0400.18A\026CCB_.D\026CCB_.D#
Acquired : Apr 4 00 09:32 pm using AcqMethod M6020.M
Operator :
Sample Name: ccb
Misc Info :
Vial Number: 3
CurrentMeth: C:\HPCHEM\1\METHODS\M6020.M
BkgFile : --------
Sample Type: CCB
Dilution : 1.000000

Element		Concentration		CRDL Limit	Flag
Be	9	0.088	ppb	1.00	Pass
B	11	407.300	ppb	1.00	*Fail*
Na	23	-13.570	ppb	1.00	*Fail*
Mg	24	-0.679	ppb	1.00	Pass
Al	27	0.326	ppb	1.00	Pass
K	39	-1.914	ppb	1.00	*Fail*
Ca	44	-2.575	ppb	1.00	*Fail*
Ti	47	0.068	ppb	1.00	Pass
V	51	0.093	ppb	1.00	Pass
Cr	52	0.037	ppb	1.00	Pass
Fe	54	-12.290	ppb	1.00	*Fail*
Mn	55	0.129	ppb	1.00	Pass
Fe	57	0.526	ppb	1.00	Pass
Co	59	0.084	ppb	1.00	Pass
Ni	60	0.098	ppb	1.00	Pass
Cu	65	0.099	ppb	1.00	Pass
Zn	68	-0.058	ppb	1.00	Pass
As	75	0.121	ppb	1.00	Pass
Se	78	1.170	ppb	1.00	*Fail*
Se	82	-0.015	ppb	1.00	Pass
Sr	88	0.079	ppb	1.00	Pass
Mo	95	0.152	ppb	1.00	Pass
Ag	107	0.123	ppb	1.00	Pass
Cd	114	0.074	ppb	1.00	Pass
Sn	120	0.110	ppb	1.00	Pass
Sb	123	0.264	ppb	1.00	Pass
Ba	135	0.060	ppb	1.00	Pass
Tl	205	0.122	ppb	1.00	Pass
Pb	208	0.112	ppb	1.00	Pass

Internal Standard QC Report

ISTD m/z	Ref. Counts	Sample Counts	Flag
45	162770	167324	Pass
89	195901	212472	Pass
115	206572	223758	Pass
159	270211	293873	Pass
165	268071	287492	Pass
209	160837	171640	Pass

Internal Standards referenced to 005CALB.D#

6 Element Failures! Maximum Number of Allowed Failures (0) Exceeded!
0 ISTD Failures. Maximum Number of ISTD Failures Allowed (0)

GEOMATRIX

Method Blank QC Data

Geomatrix Consultants

File : C:\HPCHEM\1\DATA\Apr0400.18A\031SMPL.D\031SMPL.D#
Acquired : Apr 4 00 10:03 pm using AcqMethod M6020.M
Operator :
Sample Name: 000404-MB-4
Misc Info : 50/50
Vial Number: 2111
CurrentMeth: C:\HPCHEM\1\METHODS\M6020.M
BkgFile : --------
Sample Type: --------
Dilution : 1.000000

Element		Concentration		Cal Conc	LRS Conc	Flag
Be	9	0.142	ppb	200.000	1000	Pass
B	11	383.800	ppb	200.000	1000	>Cal std
Na	23	-9.331	ppb	200.000	5000	Pass
Mg	24	-0.630	ppb	200.000	5000	Pass
Al	27	-2.173	ppb	200.000	5000	Pass
K	39	-3.018	ppb	200.000	5000	Pass
Ca	44	-6.203	ppb	200.000	5000	Pass
Ti	47	0.033	ppb	200.000	5000	Pass
V	51	0.123	ppb	200.000	5000	Pass
Cr	52	0.009	ppb	200.000	5000	Pass
Fe	54	-16.520	ppb	200.000	5000	Pass
Mn	55	-0.032	ppb	200.000	5000	Pass
Fe	57	-3.220	ppb	200.000	5000	Pass
Co	59	0.149	ppb	200.000	5000	Pass
Ni	60	0.050	ppb	200.000	5000	Pass
Cu	65	0.034	ppb	200.000	5000	Pass
Zn	68	1.738	ppb	200.000	5000	Pass
As	75	0.144	ppb	200.000	5000	Pass
Se	78	-0.608	ppb	200.000	5000	Pass
Se	82	0.118	ppb	200.000	5000	Pass
Sr	88	0.120	ppb	200.000	5000	Pass
Mo	95	0.233	ppb	200.000	5000	Pass
Ag	107	0.073	ppb	200.000	5000	Pass
Cd	114	0.137	ppb	200.000	5000	Pass
Sn	120	0.086	ppb	200.000	5000	Pass
Sb	123	0.375	ppb. Carried over from PDS.	200.000	5000	Pass
Ba	135	0.128	ppb	200.000	5000	Pass
Tl	205	0.209	ppb	200.000	5000	Pass
Pb	208	0.115	ppb	200.000	5000	Pass

Internal Standard QC Report

ISTD m/z	Ref. Counts	Sample Counts	Flag
45	162770	173019	Pass
89	195901	216743	Pass
115	206572	230044	Pass
159	270211	297470	Pass
165	268071	296374	Pass
209	160837	178144	Pass

Internal Standards referenced to 005CALB.D#

1 Element Failures! Maximum Number of Allowed Failures (0) Exceeded!
0 ISTD Failures. Maximum Number of ISTD Failures Allowed (0)

File : C:\HPCHEM\1\DATA\Apr0400.18A\032SMPL.D\032SMPL.D#
Acquired : Apr 4 00 10:09 pm using AcqMethod M6020.M
Operator :
Sample Name: 000404-MB-4DUP
Misc Info : 50/50
Vial Number: 2112
CurrentMeth: C:\HPCHEM\1\METHODS\M6020.M
BkgFile : --------
Sample Type: --------
Dilution : 1.000000

Element		Concentration		Cal Conc	LRS Conc	Flag
Be	9	0.097	ppb	200.000	1000	Pass
B	11	399.200	ppb	200.000	1000	>Cal std
Na	23	-2.038	ppb	200.000	5000	Pass
Mg	24	0.178	ppb	200.000	5000	Pass
Al	27	-2.114	ppb	200.000	5000	Pass
K	39	-1.058	ppb	200.000	5000	Pass
Ca	44	-5.616	ppb	200.000	5000	Pass
Ti	47	-0.023	ppb	200.000	5000	Pass
V	51	0.067	ppb	200.000	5000	Pass
Cr	52	-0.010	ppb	200.000	5000	Pass
Fe	54	-13.280	ppb	200.000	5000	Pass
Mn	55	-0.095	ppb	200.000	5000	Pass
Fe	57	-2.375	ppb	200.000	5000	Pass
Co	59	0.087	ppb	200.000	5000	Pass
Ni	60	-0.029	ppb	200.000	5000	Pass
Cu	65	-0.041	ppb	200.000	5000	Pass
Zn	68	1.135	ppb	200.000	5000	Pass
As	75	0.045	ppb	200.000	5000	Pass
Se	78	-0.731	ppb	200.000	5000	Pass
Se	82	-0.172	ppb	200.000	5000	Pass
Sr	88	0.065	ppb	200.000	5000	Pass
Mo	95	0.111	ppb	200.000	5000	Pass
Ag	107	0.003	ppb	200.000	5000	Pass
Cd	114	0.083	ppb	200.000	5000	Pass
Sn	120	0.009	ppb	200.000	5000	Pass
Sb	123	0.112	ppb	200.000	5000	Pass
Ba	135	0.049	ppb	200.000	5000	Pass
Tl	205	0.149	ppb	200.000	5000	Pass
Pb	208	0.065	ppb	200.000	5000	Pass

Internal Standard QC Report

ISTD m/z	Ref. Counts	Sample Counts	Flag
45	162770	168202	Pass
89	195901	210103	Pass
115	206572	221414	Pass
159	270211	289162	Pass
165	268071	288715	Pass
209	160837	172775	Pass

Internal Standards referenced to 005CALB.D#

1 Element Failures! Maximum Number of Allowed Failures (0) Exceeded!
0 ISTD Failures. Maximum Number of ISTD Failures Allowed (0)

GEOMATRIX

LCS/LCSD QC Data

Geomatrix Consultants

Sample QC Report

File : C:\HPCHEM\1\DATA\Apr0400.18A\033SMPL.D\033SMPL.D#
Acquired : Apr 4 00 10:15 pm using AcqMethod M6020.M
Operator :
Sample Name: 000404-LCS-4
Misc Info : 50/50
Vial Number: 2201
CurrentMeth: C:\HPCHEM\1\METHODS\M6020.M
BkgFile : --------
Sample Type: --------
Dilution : 1.000000

Element		Concentration		Cal Conc	LRS Conc	Flag
Be	9	95.160	ppb	200.000	1000	Pass
B	11	-195.900	ppb	200.000	1000	Pass
Na	23	99.410	ppb	200.000	5000	Pass
Mg	24	97.260	ppb	200.000	5000	Pass
Al	27	101.300	ppb	200.000	5000	Pass
K	39	964.500	ppb	200.000	5000	>Cal std
Ca	44	96.650	ppb	200.000	5000	Pass
Ti	47	94.090	ppb	200.000	5000	Pass
V	51	97.210	ppb	200.000	5000	Pass
Cr	52	97.230	ppb	200.000	5000	Pass
Fe	54	73.550	ppb	200.000	5000	Pass
Mn	55	99.830	ppb	200.000	5000	Pass
Fe	57	90.650	ppb	200.000	5000	Pass
Co	59	98.160	ppb	200.000	5000	Pass
Ni	60	98.290	ppb	200.000	5000	Pass
Cu	65	98.330	ppb	200.000	5000	Pass
Zn	68	100.500	ppb	200.000	5000	Pass
As	75	96.870	ppb	200.000	5000	Pass
Se	78	98.070	ppb	200.000	5000	Pass
Se	82	97.180	ppb	200.000	5000	Pass
Sr	88	100.200	ppb	200.000	5000	Pass
Mo	95	96.180	ppb	200.000	5000	Pass
Ag	107	48.100	ppb	200.000	5000	Pass
Cd	114	95.540	ppb	200.000	5000	Pass
Sn	120	96.270	ppb	200.000	5000	Pass
Sb	123	93.360	ppb	200.000	5000	Pass
Ba	135	98.370	ppb	200.000	5000	Pass
Tl	205	100.900	ppb	200.000	5000	Pass
Pb	208	100.600	ppb	200.000	5000	Pass

Internal Standard QC Report

ISTD m/z	Ref. Counts	Sample Counts	Flag
45	162770	192693	Pass
89	195901	240865	Pass
115	206572	253168	Pass
159	270211	329406	Pass
165	268071	326855	Pass
209	160837	196190	Pass

Internal Standards referenced to 005CALB.D#

1 Element Failures! Maximum Number of Allowed Failures (0) Exceeded!
0 ISTD Failures. Maximum Number of ISTD Failures Allowed (0)

Sample QC Report

File : C:\HPCHEM\1\DATA\Apr0400.18A\034SMPL.D\034SMPL.D#
Acquired : Apr 4 00 10:21 pm using AcqMethod M6020.M
Operator :
Sample Name: 000404-LCS-4DUP
Misc Info : 50/50
Vial Number: 2202
CurrentMeth: C:\HPCHEM\1\METHODS\M6020.M
BkgFile : --------
Sample Type: --------
Dilution : 1.000000

Element		Concentration		Cal Conc	LRS Conc	Flag
Be	9	99.850	ppb	200.000	1000	Pass
B	11	-238.400	ppb	200.000	1000	Pass
Na	23	118.300	ppb	200.000	5000	Pass
Mg	24	104.900	ppb	200.000	5000	Pass
Al	27	100.400	ppb	200.000	5000	Pass
K	39	1035.000	ppb	200.000	5000	>Cal std
Ca	44	104.100	ppb	200.000	5000	Pass
Ti	47	98.200	ppb	200.000	5000	Pass
V	51	104.300	ppb	200.000	5000	Pass
Cr	52	102.300	ppb	200.000	5000	Pass
Fe	54	83.300	ppb	200.000	5000	Pass
Mn	55	104.800	ppb	200.000	5000	Pass
Fe	57	99.160	ppb	200.000	5000	Pass
Co	59	105.400	ppb	200.000	5000	Pass
Ni	60	103.300	ppb	200.000	5000	Pass
Cu	65	102.900	ppb	200.000	5000	Pass
Zn	68	104.300	ppb	200.000	5000	Pass
As	75	103.400	ppb	200.000	5000	Pass
Se	78	99.160	ppb	200.000	5000	Pass
Se	82	105.200	ppb	200.000	5000	Pass
Sr	88	106.200	ppb	200.000	5000	Pass
Mo	95	101.100	ppb	200.000	5000	Pass
Ag	107	51.090	ppb	200.000	5000	Pass
Cd	114	100.800	ppb	200.000	5000	Pass
Sn	120	101.100	ppb	200.000	5000	Pass
Sb	123	98.430	ppb	200.000	5000	Pass
Ba	135	103.100	ppb	200.000	5000	Pass
Tl	205	106.200	ppb	200.000	5000	Pass
Pb	208	104.600	ppb	200.000	5000	Pass

Internal Standard QC Report

ISTD m/z	Ref. Counts	Sample Counts	Flag
45	162770	182952	Pass
89	195901	228930	Pass
115	206572	240591	Pass
159	270211	315831	Pass
165	268071	312644	Pass
209	160837	188162	Pass

Internal Standards referenced to 005CALB.D#

1 Element Failures! Maximum Number of Allowed Failures (0) Exceeded!
0 ISTD Failures. Maximum Number of ISTD Failures Allowed (0)

GEOMATRIX

MS/MSD QC Data

Geomatrix Consultants

File : C:\HPCHEM\1\DATA\Apr0400.18A\036SMPL.D\036SMPL.D#
Acquired : Apr 4 00 10:33 pm using AcqMethod M6020.M
Operator :
Sample Name: 00-03-1139-12MS
Misc Info : 4/100*10
Vial Number: 2204
CurrentMeth: C:\HPCHEM\1\METHODS\M6020.M
BkgFile : --------
Sample Type: --------
Dilution : 250.000000

Element		Concentration		Cal Conc	LRS Conc	Flag
Be	9	21810.000	ppb	200.000	1000	Pass
B	11	-66000.000	ppb	200.000	1000	Pass
Na	23	2.5030E+6	ppb	200.000	5000	>LRS
Mg	24	3.1900E+6	ppb	200.000	5000	>LRS
Al	27	1.5770E+6	ppb	200.000	5000	>LRS
K	39	753700.000	ppb	200.000	5000	>Cal std
Ca	44	3.3680E+7	ppb	200.000	5000	>LRS
Ti	47	206800.000	ppb	200.000	5000	>Cal std
V	51	36660.000	ppb	200.000	5000	Pass
Cr	52	30770.000	ppb	200.000	5000	Pass
Fe	54	3.1240E+6	ppb	200.000	5000	>LRS
Mn	55	74630.000	ppb	200.000	5000	>Cal std
Fe	57	4.8920E+6	ppb	200.000	5000	>LRS
Co	59	22750.000	ppb	200.000	5000	Pass
Ni	60	23160.000	ppb	200.000	5000	Pass
Cu	65	16910.000	ppb	200.000	5000	Pass
Zn	68	22720.000	ppb	200.000	5000	Pass
As	75	20540.000	ppb	200.000	5000	Pass
Se	78	15700.000	ppb	200.000	5000	Pass
Se	82	16620.000	ppb	200.000	5000	Pass
Sr	88	217200.000	ppb	200.000	5000	>Cal std
Mo	95	18370.000	ppb	200.000	5000	Pass
Ag	107	10730.000	ppb	200.000	5000	Pass
Cd	114	21830.000	ppb	200.000	5000	Pass
Sn	120	24130.000	ppb	200.000	5000	Pass
Sb	123	13970.000	ppb	200.000	5000	Pass
Ba	135	65590.000	ppb	200.000	5000	>Cal std
Tl	205	25890.000	ppb	200.000	5000	Pass
Pb	208	26360.000	ppb	200.000	5000	Pass

Internal Standard QC Report

ISTD m/z	Ref. Counts	Sample Counts	Flag
45	162770	174635	Pass
89	195901	277630	Pass
115	206572	216016	Pass
159	270211	278367	Pass
165	268071	278043	Pass
209	160837	149903	Pass

Internal Standards referenced to 005CALB.D#

11 Element Failures! Maximum Number of Allowed Failures (0) Exceeded!
0 ISTD Failures. Maximum Number of ISTD Failures Allowed (0)

File : C:\HPCHEM\1\DATA\Apr0400.18A\037CCV_.D\037CCV_.D#
Acquired : Apr 4 00 10:39 pm using AcqMethod M6020.M
Operator :
Sample Name: ccv 100 ppb
Misc Info :
Vial Number: 1104
CurrentMeth: C:\HPCHEM\1\METHODS\M6020.M
BkgFile : --------
Sample Type: CCV
Dilution : 1.000000

CCV Mix #1

Element		Concentration		Expected	QC Range	Flag
Be	9	102.300	ppb	100.00	90.00-110.00	Pass
B	11	426.300	ppb	100.00	90.00-110.00	*Fail*
Na	23	189.900	ppb	100.00	90.00-110.00	*Fail*
Mg	24	130.400	ppb	100.00	90.00-110.00	*Fail*
Al	27	108.800	ppb	100.00	90.00-110.00	Pass
K	39	105.600	ppb	100.00	90.00-110.00	Pass
Ca	44	298.200	ppb	100.00	90.00-110.00	*Fail*
Ti	47	103.100	ppb	100.00	90.00-110.00	Pass
V	51	103.200	ppb	100.00	90.00-110.00	Pass
Cr	52	103.200	ppb	100.00	90.00-110.00	Pass
Fe	54	110.600	ppb	100.00	90.00-110.00	*Fail*
Mn	55	104.900	ppb	100.00	90.00-110.00	Pass
Fe	57	132.100	ppb	100.00	90.00-110.00	*Fail*
Co	59	105.700	ppb	100.00	90.00-110.00	Pass
Ni	60	103.400	ppb	100.00	90.00-110.00	Pass
Cu	65	101.900	ppb	100.00	90.00-110.00	Pass
Zn	68	101.600	ppb	100.00	90.00-110.00	Pass
As	75	101.200	ppb	100.00	90.00-110.00	Pass
Se	78	101.200	ppb	100.00	90.00-110.00	Pass
Se	82	100.900	ppb	100.00	90.00-110.00	Pass
Sr	88	104.900	ppb	100.00	90.00-110.00	Pass
Mo	95	101.300	ppb	100.00	90.00-110.00	Pass
Ag	107	99.670	ppb	100.00	90.00-110.00	Pass
Cd	114	102.100	ppb	100.00	90.00-110.00	Pass
Sn	120	100.700	ppb	100.00	90.00-110.00	Pass
Sb	123	102.000	ppb	100.00	90.00-110.00	Pass
Ba	135	104.000	ppb	100.00	90.00-110.00	Pass
Tl	205	103.500	ppb	100.00	90.00-110.00	Pass
Pb	208	103.300	ppb	100.00	90.00-110.00	Pass

Internal Standard QC Report

ISTD m/z	Ref. Counts	Sample Counts	Flag
45	162770	173093	Pass
89	195901	221797	Pass
115	206572	237212	Pass
159	270211	305944	Pass
165	268071	304620	Pass
209	160837	181207	Pass

Internal Standards referenced to 005CALB.D#

6 Element Failures! Maximum Number of Allowed Failures (0) Exceeded!

Drum QC Report

File : C:\HPCHEM\1\DATA\Apr0400.18A\038CCB_.D\038CCB_.D#
Acquired : Apr 4 00 10:45 pm using AcqMethod M6020.M
Operator :
Sample Name: ccb
Misc Info :
Vial Number: 3
CurrentMeth: C:\HPCHEM\1\METHODS\M6020.M
BkgFile : --------
Sample Type: CCB
Dilution : 1.000000

Element		Concentration		CRDL Limit	Flag
Be	9	0.218	ppb	1.00	Pass
B	11	456.500	ppb	1.00	*Fail*
Na	23	145.900	ppb	1.00	*Fail*
Mg	24	28.690	ppb	1.00	*Fail*
Al	27	6.493	ppb	1.00	*Fail*
K	39	5.867	ppb	1.00	*Fail*
Ca	44	120.900	ppb	1.00	*Fail*
Ti	47	0.809	ppb	1.00	Pass
V	51	0.244	ppb	1.00	Pass
Cr	52	0.137	ppb	1.00	Pass
Fe	54	-1.385	ppb	1.00	*Fail*
Mn	55	0.440	ppb	1.00	Pass
Fe	57	18.850	ppb	1.00	*Fail*
Co	59	0.233	ppb	1.00	Pass
Ni	60	0.246	ppb	1.00	Pass
Cu	65	0.226	ppb	1.00	Pass
Zn	68	0.226	ppb	1.00	Pass
As	75	0.218	ppb	1.00	Pass
Se	78	0.905	ppb	1.00	Pass
Se	82	0.019	ppb	1.00	Pass
Sr	88	1.088	ppb	1.00	*Fail*
Mo	95	0.306	ppb	1.00	Pass
Ag	107	0.156	ppb	1.00	Pass
Cd	114	0.199	ppb	1.00	Pass
Sn	120	0.235	ppb	1.00	Pass
Sb	123	0.428	ppb	1.00	Pass
Ba	135	0.379	ppb	1.00	Pass
Tl	205	0.328	ppb	1.00	Pass
Pb	208	0.252	ppb	1.00	Pass

Internal Standard QC Report

ISTD m/z	Ref. Counts	Sample Counts	Flag
45	162770	166433	Pass
89	195901	216185	Pass
115	206572	231080	Pass
159	270211	290420	Pass
165	268071	285433	Pass
209	160837	171517	Pass

Internal Standards referenced to 005CALB.D#

9 Element Failures! Maximum Number of Allowed Failures (0) Exceeded!
0 ISTD Failures. Maximum Number of ISTD Failures Allowed (0)

File : C:\HPCHEM\1\DATA\Apr0400.18A\039SMPL.D\039SMPL.D#
Acquired : Apr 4 00 10:51 pm using AcqMethod M6020.M
Operator :
Sample Name: 00-03-1139-12MSD
Misc Info : 4/100*10
Vial Number: 2205
CurrentMeth: C:\HPCHEM\1\METHODS\M6020.M
BkgFile : --------
Sample Type: --------
Dilution : 250.000000

Element		Concentration		Cal Conc	LRS Conc	Flag
Be	9	22190.000	ppb	200.000	1000	Pass
B	11	-73880.000	ppb	200.000	1000	Pass
Na	23	2.4920E+6	ppb	200.000	5000	>LRS
Mg	24	3.5480E+6	ppb	200.000	5000	>LRS
Al	27	1.6490E+6	ppb	200.000	5000	>LRS
K	39	795600.000	ppb	200.000	5000	>Cal std
Ca	44	3.3290E+7	ppb	200.000	5000	>LRS
Ti	47	204900.000	ppb	200.000	5000	>Cal std
V	51	37580.000	ppb	200.000	5000	Pass
Cr	52	31300.000	ppb	200.000	5000	Pass
Fe	54	3.4570E+6	ppb	200.000	5000	>LRS
Mn	55	75870.000	ppb	200.000	5000	>Cal std
Fe	57	5.1810E+6	ppb	200.000	5000	>LRS
Co	59	23820.000	ppb	200.000	5000	Pass
Ni	60	24050.000	ppb	200.000	5000	Pass
Cu	65	17260.000	ppb	200.000	5000	Pass
Zn	68	22630.000	ppb	200.000	5000	Pass
As	75	20920.000	ppb	200.000	5000	Pass
Se	78	15760.000	ppb	200.000	5000	Pass
Se	82	16690.000	ppb	200.000	5000	Pass
Sr	88	222700.000	ppb	200.000	5000	>Cal std
Mo	95	18990.000	ppb	200.000	5000	Pass
Ag	107	9723.000	ppb	200.000	5000	Pass
Cd	114	22190.000	ppb	200.000	5000	Pass
Sn	120	24920.000	ppb	200.000	5000	Pass
Sb	123	15320.000	ppb	200.000	5000	Pass
Ba	135	64060.000	ppb	200.000	5000	>Cal std
Tl	205	26200.000	ppb	200.000	5000	Pass
Pb	208	26760.000	ppb	200.000	5000	Pass

Internal Standard QC Report

ISTD m/z	Ref. Counts	Sample Counts	Flag
45	162770	169481	Pass
89	195901	275615	Pass
115	206572	211928	Pass
159	270211	271337	Pass
165	268071	266609	Pass
209	160837	145147	Pass

Internal Standards referenced to 005CALB.D#

11 Element Failures! Maximum Number of Allowed Failures (0) Exceeded!
0 ISTD Failures. Maximum Number of ISTD Failures Allowed (0)

GEOMATRIX

PDS/PDSD Sample Data

Geomatrix Consultants

File : C:\HPCHEM\1\DATA\Apr0400.18A\040SMPL.D\040SMPL.D#
Acquired : Apr 4 00 10:57 pm using AcqMethod M6020.M
Operator :
Sample Name: 00-03-1139-12PDS
Misc Info : 4/100*10
Vial Number: 2206
CurrentMeth: C:\HPCHEM\1\METHODS\M6020.M
BkgFile : --------
Sample Type: --------
Dilution : 250.000000

Element		Concentration		Cal Conc	LRS Conc	Flag
Be	9	23940.000	ppb	200.000	1000	Pass
B	11	-88780.000	ppb	200.000	1000	Pass
Na	23	2.3590E+6	ppb	200.000	5000	>LRS
Mg	24	3.2820E+6	ppb	200.000	5000	>LRS
Al	27	1.5140E+6	ppb	200.000	5000	>LRS
K	39	809400.000	ppb	200.000	5000	>Cal std
Ca	44	3.4490E+7	ppb	200.000	5000	>LRS
Ti	47	182300.000	ppb	200.000	5000	>Cal std
V	51	38830.000	ppb	200.000	5000	Pass
Cr	52	32230.000	ppb	200.000	5000	Pass
Fe	54	3.4500E+6	ppb	200.000	5000	>LRS
Mn	55	77950.000	ppb	200.000	5000	>Cal std
Fe	57	5.2270E+6	ppb	200.000	5000	>LRS
Co	59	25340.000	ppb	200.000	5000	Pass
Ni	60	25240.000	ppb	200.000	5000	Pass
Cu	65	18460.000	ppb	200.000	5000	Pass
Zn	68	24970.000	ppb	200.000	5000	Pass
As	75	22200.000	ppb	200.000	5000	Pass
Se	78	17100.000	ppb	200.000	5000	Pass
Se	82	17890.000	ppb	200.000	5000	Pass
Sr	88	219400.000	ppb	200.000	5000	>Cal std
Mo	95	20330.000	ppb	200.000	5000	Pass
Ag	107	11020.000	ppb	200.000	5000	Pass
Cd	114	23300.000	ppb	200.000	5000	Pass
Sn	120	26080.000	ppb	200.000	5000	Pass
Sb	123	24210.000	ppb	200.000	5000	Pass
Ba	135	66890.000	ppb	200.000	5000	>Cal std
Tl	205	28500.000	ppb	200.000	5000	Pass
Pb	208	29110.000	ppb	200.000	5000	Pass

Internal Standard QC Report

ISTD m/z	Ref. Counts	Sample Counts	Flag
45	162770	166041	Pass
89	195901	266562	Pass
115	206572	209138	Pass
159	270211	269307	Pass
165	268071	268107	Pass
209	160837	142236	Pass

Internal Standards referenced to 005CALB.D#

11 Element Failures! Maximum Number of Allowed Failures (0) Exceeded!
0 ISTD Failures. Maximum Number of ISTD Failures Allowed (0)

File : C:\HPCHEM\1\DATA\Apr0400.18A\041SMPL.D\041SMPL.D#
Acquired : Apr 4 00 11:03 pm using AcqMethod M6020.M
Operator :
Sample Name: 00-03-1139-12PDSD
Misc Info : 4/100*10
Vial Number: 2207
CurrentMeth: C:\HPCHEM\1\METHODS\M6020.M
BkgFile : --------
Sample Type: --------
Dilution : 250.000000

Element		Concentration		Cal Conc	LRS Conc	Flag
Be	9	25020.000	ppb	200.000	1000	Pass
B	11	-96590.000	ppb	200.000	1000	Pass
Na	23	2.4490E+6	ppb	200.000	5000	>LRS
Mg	24	3.3760E+6	ppb	200.000	5000	>LRS
Al	27	1.5620E+6	ppb	200.000	5000	>LRS
K	39	846900.000	ppb	200.000	5000	>Cal std
Ca	44	3.6440E+7	ppb	200.000	5000	>LRS
Ti	47	185000.000	ppb	200.000	5000	>Cal std
V	51	39850.000	ppb	200.000	5000	Pass
Cr	52	33580.000	ppb	200.000	5000	Pass
Fe	54	3.5460E+6	ppb	200.000	5000	>LRS
Mn	55	79430.000	ppb	200.000	5000	>Cal std
Fe	57	5.3870E+6	ppb	200.000	5000	>LRS
Co	59	25790.000	ppb	200.000	5000	Pass
Ni	60	25640.000	ppb	200.000	5000	Pass
Cu	65	18990.000	ppb	200.000	5000	Pass
Zn	68	24910.000	ppb	200.000	5000	Pass
As	75	22420.000	ppb	200.000	5000	Pass
Se	78	16780.000	ppb	200.000	5000	Pass
Se	82	18200.000	ppb	200.000	5000	Pass
Sr	88	219300.000	ppb	200.000	5000	>Cal std
Mo	95	20590.000	ppb	200.000	5000	Pass
Ag	107	11200.000	ppb	200.000	5000	Pass
Cd	114	23710.000	ppb	200.000	5000	Pass
Sn	120	26100.000	ppb	200.000	5000	Pass
Sb	123	24370.000	ppb	200.000	5000	Pass
Ba	135	67720.000	ppb	200.000	5000	>Cal std
Tl	205	28430.000	ppb	200.000	5000	Pass
Pb	208	29000.000	ppb	200.000	5000	Pass

Internal Standard QC Report

ISTD m/z	Ref. Counts	Sample Counts	Flag
45	162770	159622	Pass
89	195901	261268	Pass
115	206572	205329	Pass
159	270211	266027	Pass
165	268071	263415	Pass
209	160837	141872	Pass

Internal Standards referenced to 005CALB.D#

11 Element Failures! Maximum Number of Allowed Failures (0) Exceeded!
0 ISTD Failures. Maximum Number of ISTD Failures Allowed (0)

GEOMATRIX

Samples Raw Data

Geomatrix Consultants

File : C:\HPCHEM\1\DATA\Apr0400.18A\035SMPL.D\035SMPL.D#
Acquired : Apr 4 00 10:27 pm using AcqMethod M6020.M
Operator :
Sample Name: 00-03-1139-12
Misc Info : 4/100*10
Vial Number: 2203
CurrentMeth: C:\HPCHEM\1\METHODS\M6020.M
BkgFile : --------
Sample Type: --------
Dilution : 250.000000

Element		Concentration		Cal Conc	LRS Conc	Flag
Be	9	96.400	ppb	200.000	1000	Pass
B	11	68830.000	ppb	200.000	1000	>Cal std
Na	23	2.3340E+6	ppb	200.000	5000	>LRS
Mg	24	3.2650E+6	ppb	200.000	5000	>LRS
Al	27	1.4760E+6	ppb	200.000	5000	>LRS
K	39	557600.000	ppb	200.000	5000	>Cal std
Ca	44	3.3940E+7	ppb	200.000	5000	>LRS
Ti	47	160800.000	ppb	200.000	5000	>Cal std
V	51	14110.000	ppb	200.000	5000	Pass
Cr	52	8687.000	ppb	200.000	5000	Pass
Fe	54	3.3360E+6	ppb	200.000	5000	>LRS
Mn	55	54020.000	ppb	200.000	5000	>Cal std
Fe	57	5.3440E+6	ppb	200.000	5000	>LRS
Co	59	1013.000	ppb	200.000	5000	Pass
Ni	60	2335.000	ppb	200.000	5000	Pass
Cu	65	1175.000	ppb	200.000	5000	Pass
Zn	68	7950.000	ppb	200.000	5000	Pass
As	75	3694.000	ppb	200.000	5000	Pass
Se	78	14.750	ppb	200.000	5000	Pass
Se	82	428.000	ppb	200.000	5000	Pass
Sr	88	197100.000	ppb	200.000	5000	>Cal std
Mo	95	195.800	ppb	200.000	5000	Pass
Ag	107	21.740	ppb	200.000	5000	Pass
Cd	114	96.980	ppb	200.000	5000	Pass
Sn	120	417.800	ppb	200.000	5000	Pass
Sb	123	153.700	ppb	200.000	5000	Pass
Ba	135	41920.000	ppb	200.000	5000	Pass
Tl	205	66.350	ppb	200.000	5000	Pass
Pb	208	1926.000	ppb	200.000	5000	Pass

Internal Standard QC Report

ISTD m/z	Ref. Counts	Sample Counts	Flag
45	162770	173610	Pass
89	195901	275771	Pass
115	206572	214122	Pass
159	270211	273839	Pass
165	268071	271496	Pass
209	160837	147914	Pass

Internal Standards referenced to 005CALB.D#

11 Element Failures! Maximum Number of Allowed Failures (0) Exceeded!
0 ISTD Failures. Maximum Number of ISTD Failures Allowed (0)

File : C:\HPCHEM\1\DATA\Apr0400.18A\042SMPL.D\042SMPL.D#
Acquired : Apr 4 00 11:10 pm using AcqMethod M6020.M
Operator :
Sample Name: 00-03-1139-13
Misc Info : 4/100*10
Vial Number: 2208
CurrentMeth: C:\HPCHEM\1\METHODS\M6020.M
BkgFile : --------
Sample Type: --------
Dilution : 250.000000

Element		Concentration		Cal Conc	LRS Conc	Flag
Be	9	100.600	ppb	200.000	1000	Pass
B	11	79680.000	ppb	200.000	1000	>Cal std
Na	23	2.1490E+6	ppb	200.000	5000	>LRS
Mg	24	2.8390E+6	ppb	200.000	5000	>LRS
Al	27	1.4070E+6	ppb	200.000	5000	>LRS
K	39	535000.000	ppb	200.000	5000	>Cal std
Ca	44	3.2180E+7	ppb	200.000	5000	>LRS
Ti	47	162000.000	ppb	200.000	5000	>Cal std
V	51	13160.000	ppb	200.000	5000	Pass
Cr	52	8216.000	ppb	200.000	5000	Pass
Fe	54	3.1470E+6	ppb	200.000	5000	>LRS
Mn	55	50040.000	ppb	200.000	5000	>Cal std
Fe	57	4.8780E+6	ppb	200.000	5000	>LRS
Co	59	946.900	ppb	200.000	5000	Pass
Ni	60	2076.000	ppb	200.000	5000	Pass
Cu	65	1055.000	ppb	200.000	5000	Pass
Zn	68	6887.000	ppb	200.000	5000	Pass
As	75	3241.000	ppb	200.000	5000	Pass
Se	78	130.800	ppb	200.000	5000	Pass
Se	82	480.100	ppb	200.000	5000	Pass
Sr	88	193500.000	ppb	200.000	5000	>Cal std
Mo	95	172.800	ppb	200.000	5000	Pass
Ag	107	36.850	ppb	200.000	5000	Pass
Cd	114	94.850	ppb	200.000	5000	Pass
Sn	120	754.300	ppb	200.000	5000	Pass
Sb	123	135.000	ppb	200.000	5000	Pass
Ba	135	34330.000	ppb	200.000	5000	Pass
Tl	205	80.880	ppb	200.000	5000	Pass
Pb	208	1767.000	ppb	200.000	5000	Pass

Internal Standard QC Report

ISTD m/z	Ref. Counts	Sample Counts	Flag
45	162770	170035	Pass
89	195901	276394	Pass
115	206572	218904	Pass
159	270211	279685	Pass
165	268071	279466	Pass
209	160837	146912	Pass

Internal Standards referenced to 005CALB.D#

11 Element Failures! Maximum Number of Allowed Failures (0) Exceeded!
0 ISTD Failures. Maximum Number of ISTD Failures Allowed (0)

File : C:\HPCHEM\1\DATA\Apr0400.18A\043SMPL.D\043SMPL.D#
Acquired : Apr 4 00 11:16 pm using AcqMethod M6020.M
Operator :
Sample Name: 00-03-1139-14
Misc Info : 4/100*10
Vial Number: 2209
CurrentMeth: C:\HPCHEM\1\METHODS\M6020.M
BkgFile : --------
Sample Type: --------
Dilution : 250.000000

Element		Concentration		Cal Conc	LRS Conc	Flag
Be	9	103.400	ppb	200.000	1000	Pass
B	11	80490.000	ppb	200.000	1000	>Cal std
Na	23	2.4230E+6	ppb	200.000	5000	>LRS
Mg	24	3.3820E+6	ppb	200.000	5000	>LRS
Al	27	1.9410E+6	ppb	200.000	5000	>LRS
K	39	771800.000	ppb	200.000	5000	>Cal std
Ca	44	2.5690E+7	ppb	200.000	5000	>LRS
Ti	47	216500.000	ppb	200.000	5000	>Cal std
V	51	15620.000	ppb	200.000	5000	Pass
Cr	52	8875.000	ppb	200.000	5000	Pass
Fe	54	4.0370E+6	ppb	200.000	5000	>LRS
Mn	55	76860.000	ppb	200.000	5000	>Cal std
Fe	57	5.9440E+6	ppb	200.000	5000	>LRS
Co	59	1505.000	ppb	200.000	5000	Pass
Ni	60	2949.000	ppb	200.000	5000	Pass
Cu	65	1712.000	ppb	200.000	5000	Pass
Zn	68	9645.000	ppb	200.000	5000	Pass
As	75	3603.000	ppb	200.000	5000	Pass
Se	78	87.980	ppb	200.000	5000	Pass
Se	82	356.300	ppb	200.000	5000	Pass
Sr	88	152000.000	ppb	200.000	5000	>Cal std
Mo	95	147.700	ppb	200.000	5000	Pass
Ag	107	36.340	ppb	200.000	5000	Pass
Cd	114	75.800	ppb	200.000	5000	Pass
Sn	120	204.200	ppb	200.000	5000	Pass
Sb	123	71.780	ppb	200.000	5000	Pass
Ba	135	38540.000	ppb	200.000	5000	Pass
Tl	205	59.460	ppb	200.000	5000	Pass
Pb	208	2163.000	ppb	200.000	5000	Pass

Internal Standard QC Report

ISTD m/z	Ref. Counts	Sample Counts	Flag
45	162770	167169	Pass
89	195901	263451	Pass
115	206572	209207	Pass
159	270211	270535	Pass
165	268071	267432	Pass
209	160837	145759	Pass

Internal Standards referenced to 005CALB.D#

11 Element Failures! Maximum Number of Allowed Failures (0) Exceeded!
0 ISTD Failures. Maximum Number of ISTD Failures Allowed (0)

File : C:\HPCHEM\1\DATA\Apr0400.18A\044SMPL.D\044SMPL.D#
Acquired : Apr 4 00 11:22 pm using AcqMethod M6020.M
Operator :
Sample Name: 00-03-1139-14*50
Misc Info : 4/100*50
Vial Number: 2210
CurrentMeth: C:\HPCHEM\1\METHODS\M6020.M
BkgFile : --------
Sample Type: --------
Dilution : 1250.000000

Element		Concentration		Cal Conc	LRS Conc	Flag
Be	9	195.000	ppb	200.000	1000	Pass
B	11	537100.000	ppb	200.000	1000	>Cal std
Na	23	2.8430E+6	ppb	200.000	5000	>Cal std
Mg	24	4.0530E+6	ppb	200.000	5000	>Cal std
Al	27	2.3810E+6	ppb	200.000	5000	>Cal std
K	39	929600.000	ppb	200.000	5000	>Cal std
Ca	44	3.0570E+7	ppb	200.000	5000	>LRS
Ti	47	252700.000	ppb	200.000	5000	>Cal std
V	51	18240.000	ppb	200.000	5000	Pass
Cr	52	10670.000	ppb	200.000	5000	Pass
Fe	54	5.0710E+6	ppb	200.000	5000	>Cal std
Mn	55	91140.000	ppb	200.000	5000	Pass
Fe	57	7.4840E+6	ppb	200.000	5000	>LRS
Co	59	1842.000	ppb	200.000	5000	Pass
Ni	60	3520.000	ppb	200.000	5000	Pass
Cu	65	2373.000	ppb	200.000	5000	Pass
Zn	68	15760.000	ppb	200.000	5000	Pass
As	75	5152.000	ppb	200.000	5000	Pass
Se	78	-74.600	ppb	200.000	5000	Pass
Se	82	428.700	ppb	200.000	5000	Pass
Sr	88	205300.000	ppb	200.000	5000	Pass
Mo	95	229.700	ppb	200.000	5000	Pass
Ag	107	14.100	ppb	200.000	5000	Pass
Cd	114	134.000	ppb	200.000	5000	Pass
Sn	120	203.200	ppb	200.000	5000	Pass
Sb	123	78.640	ppb	200.000	5000	Pass
Ba	135	42600.000	ppb	200.000	5000	Pass
Tl	205	142.100	ppb	200.000	5000	Pass
Pb	208	2402.000	ppb	200.000	5000	Pass

Internal Standard QC Report

ISTD m/z	Ref. Counts	Sample Counts	Flag
45	162770	167748	Pass
89	195901	229024	Pass
115	206572	225645	Pass
159	270211	286970	Pass
165	268071	285346	Pass
209	160837	166534	Pass

Internal Standards referenced to 005CALB.D#

9 Element Failures! Maximum Number of Allowed Failures (0) Exceeded!
0 ISTD Failures. Maximum Number of ISTD Failures Allowed (0)

File : C:\HPCHEM\1\DATA\Apr0400.18A\047ICSB.D\047ICSB.D#
Acquired : Apr 4 00 11:41 pm using AcqMethod M6020.M
Operator :
Sample Name: periodic ICSAB check
Misc Info :
Vial Number: 1204
CurrentMeth: C:\HPCHEM\1\METHODS\M6020.M
BkgFile : --------
Sample Type: ICS_AB
Dilution : 1.000000

Element		Concentration		Expected	CRDL Range Conc	%Range Conc	Flag
Be	9	-0.007	ppb	0.00	-1.00-1.00	0-0	Pass
B	11	506.100	ppb	0.00	-1.00-1.00	0-0	*Fail*
Na	23	22340.000	ppb	250.00	249.00-251.00	250-250	*Fail*
Mg	24	8581.000	ppb	100.00	99.00-101.00	100-100	*Fail*
Al	27	8348.000	ppb	100.00	99.00-101.00	100-100	*Fail*
K	39	9966.000	ppb	100.00	99.00-101.00	100-100	*Fail*
Ca	44	15070.000	ppb	300.00	299.00-301.00	300-300	*Fail*
Ti	47	195.400	ppb	2.00	1.00-3.00	2-2	*Fail*
V	51	18.870	ppb	20.00	19.00-21.00	20-20	*Fail*
Cr	52	18.600	ppb	20.00	19.00-21.00	20-20	*Fail*
Fe	54	15960.000	ppb	250.00	249.00-251.00	250-250	*Fail*
Mn	55	19.240	ppb	20.00	19.00-21.00	20-20	Pass
Fe	57	23040.000	ppb	250.00	249.00-251.00	250-250	*Fail*
Co	59	18.170	ppb	20.00	19.00-21.00	20-20	*Fail*
Ni	60	17.850	ppb	20.00	19.00-21.00	20-20	*Fail*
Cu	65	19.890	ppb	20.00	19.00-21.00	20-20	Pass
Zn	68	10.130	ppb	10.00	9.00-11.00	10-10	Pass
As	75	9.964	ppb	10.00	9.00-11.00	10-10	Pass
Se	78	9.554	ppb	10.00	9.00-11.00	10-10	Pass
Se	82	9.371	ppb	10.00	9.00-11.00	10-10	Pass
Sr	88	1.643	ppb	0.00	-1.00-1.00	0-0	*Fail*
Mo	95	197.200	ppb	2.00	1.00-3.00	2-2	*Fail*
Ag	107	4.910	ppb	5.00	4.00-6.00	5-5	Pass
Cd	114	9.077	ppb	10.00	9.00-11.00	10-10	Pass
Sn	120	1.236	ppb	0.00	-1.00-1.00	0-0	*Fail*
Sb	123	0.414	ppb	0.00	-1.00-1.00	0-0	Pass
Ba	135	0.097	ppb	0.00	-1.00-1.00	0-0	Pass
Tl	205	-0.011	ppb	0.00	-1.00-1.00	0-0	Pass
Pb	208	0.282	ppb	0.00	-1.00-1.00	0-0	Pass

Internal Standard QC Report

ISTD m/z	Ref. Counts	Sample Counts	Flag
45	162770	207175	Pass
89	195901	225968	Pass
115	206572	217422	Pass
159	270211	315333	Pass
165	268071	318210	Pass
209	160837	199965	Pass

Internal Standards referenced to 005CALB.D#

16 Element Failures! Maximum Number of Allowed Failures (0) Exceeded!
0 ISTD Failures. Maximum Number of ISTD Failures Allowed (0)

File : C:\HPCHEM\1\DATA\Apr0400.18A\048CCV_.D\048CCV_.D# 349
Acquired : Apr 4 00 11:47 pm using AcqMethod M6020.M
Operator :
Sample Name: CCV 100 ppb
Misc Info :
Vial Number: 1104
CurrentMeth: C:\HPCHEM\1\METHODS\M6020.M
BkgFile : --------
Sample Type: CCV
Dilution : 1.000000

CCV Mix #1

Element		Concentration		Expected	QC Range	Flag
Be	9	90.970	ppb	100.00	90.00-110.00	Pass
B	11	505.500	ppb	100.00	90.00-110.00	*Fail*
Na	23	120.200	ppb	100.00	90.00-110.00	*Fail*
Mg	24	111.600	ppb	100.00	90.00-110.00	*Fail*
Al	27	109.900	ppb	100.00	90.00-110.00	Pass
K	39	107.300	ppb	100.00	90.00-110.00	Pass
Ca	44	157.400	ppb	100.00	90.00-110.00	*Fail*
Ti	47	101.000	ppb	100.00	90.00-110.00	Pass
V	51	99.450	ppb	100.00	90.00-110.00	Pass
Cr	52	98.850	ppb	100.00	90.00-110.00	Pass
Fe	54	102.800	ppb	100.00	90.00-110.00	Pass
Mn	55	98.120	ppb	100.00	90.00-110.00	Pass
Fe	57	128.800	ppb	100.00	90.00-110.00	*Fail*
Co	59	99.070	ppb	100.00	90.00-110.00	Pass
Ni	60	97.550	ppb	100.00	90.00-110.00	Pass
Cu	65	104.700	ppb	100.00	90.00-110.00	Pass
Zn	68	103.000	ppb	100.00	90.00-110.00	Pass
As	75	104.200	ppb	100.00	90.00-110.00	Pass
Se	78	100.100	ppb	100.00	90.00-110.00	Pass
Se	82	103.600	ppb	100.00	90.00-110.00	Pass
Sr	88	101.500	ppb	100.00	90.00-110.00	Pass
Mo	95	100.700	ppb	100.00	90.00-110.00	Pass
Ag	107	102.000	ppb	100.00	90.00-110.00	Pass
Cd	114	100.600	ppb	100.00	90.00-110.00	Pass
Sn	120	96.330	ppb	100.00	90.00-110.00	Pass
Sb	123	94.960	ppb	100.00	90.00-110.00	Pass
Ba	135	100.100	ppb	100.00	90.00-110.00	Pass
Tl	205	101.700	ppb	100.00	90.00-110.00	Pass
Pb	208	101.800	ppb	100.00	90.00-110.00	Pass

Internal Standard QC Report

ISTD m/z	Ref. Counts	Sample Counts	Flag
45	162770	190083	Pass
89	195901	217530	Pass
115	206572	225284	Pass
159	270211	308272	Pass
165	268071	306784	Pass
209	160837	195125	Pass

Internal Standards referenced to 005CALB.D#

5 Element Failures! Maximum Number of Allowed Failures (0) Exceeded!

File : C:\HPCHEM\1\DATA\Apr0400.18A\049CCB_.D\049CCB_.D#
Acquired : Apr 4 00 11:53 pm using AcqMethod M6020.M
Operator :
Sample Name: CCB
Misc Info :
Vial Number: 3
CurrentMeth: C:\HPCHEM\1\METHODS\M6020.M
BkgFile : --------
Sample Type: CCB
Dilution : 1.000000

Element		Concentration		CRDL Limit	Flag
Be	9	0.147	ppb	1.00	Pass
B	11	511.000	ppb	1.00	*Fail*
Na	23	31.880	ppb	1.00	*Fail*
Mg	24	19.620	ppb	1.00	*Fail*
Al	27	14.670	ppb	1.00	*Fail*
K	39	8.882	ppb	1.00	*Fail*
Ca	44	99.230	ppb	1.00	*Fail*
Ti	47	0.798	ppb	1.00	Pass
V	51	0.163	ppb	1.00	Pass
Cr	52	0.063	ppb	1.00	Pass
Fe	54	9.471	ppb	1.00	*Fail*
Mn	55	0.316	ppb	1.00	Pass
Fe	57	38.200	ppb	1.00	*Fail*
Co	59	0.149	ppb	1.00	Pass
Ni	60	0.149	ppb	1.00	Pass
Cu	65	0.168	ppb	1.00	Pass
Zn	68	0.257	ppb	1.00	Pass
As	75	0.141	ppb	1.00	Pass
Se	78	0.205	ppb	1.00	Pass
Se	82	-0.128	ppb	1.00	Pass
Sr	88	0.722	ppb	1.00	Pass
Mo	95	0.424	ppb	1.00	Pass
Ag	107	0.324	ppb	1.00	Pass
Cd	114	0.134	ppb	1.00	Pass
Sn	120	0.134	ppb	1.00	Pass
Sb	123	0.302	ppb	1.00	Pass
Ba	135	0.254	ppb	1.00	Pass
Tl	205	0.162	ppb	1.00	Pass
Pb	208	0.199	ppb	1.00	Pass

Internal Standard QC Report

ISTD m/z	Ref. Counts	Sample Counts	Flag
45	162770	176426	Pass
89	195901	205496	Pass
115	206572	219126	Pass
159	270211	291716	Pass
165	268071	291499	Pass
209	160837	178667	Pass

Internal Standards referenced to 005CALB.D#

8 Element Failures! Maximum Number of Allowed Failures (0) Exceeded!
0 ISTD Failures. Maximum Number of ISTD Failures Allowed (0)

GEOMATRIX

Mercury (EPA 7470A)
Raw Data

Geomatrix Consultants

DATE	DATA FILE	ID FILE	CEL ID #	INITIAL SAMPLE Vol(mL)/Wt(g)	FINAL SAMPLE Vol(mL)	DILUTION FACTOR	MS/MSD Lot #	MS/MSD Conc (ppm)	MS/MSD Vol (mL)	POS.	WHO	COMMENTS
4/3/00	00040301	00040301	000403MBLST	See sample prep. Book							JP	
			00-03-1145-1MS ST									
			MSD ST									
			00-03-1145-1ST									
			00-03-1176-1ST									
			00-03-0985-1ST									
			00-03-1137-1P									
			-20									
			CCV	1W	1W	5	M040100A	1.0	1.0			
			CCB									
4/4/00	00040401	00040401	Calib Blank	See sample prep'n book								
			0.50 ppb			20	M040100A	1.0	1.0		PA	
			1.0			10						
			2.0			5						
			5.0			2						
			10.0			1						
			ICV			1	M040100B	1.0	0.5			
			ICB									
			BLANK									
			CCV			5	M040100A	1.0	0.2			
			CCB									
			000403LCS3									
			000403MB3									
			00-04-0007-3S MS									
			00-04-0007-3S MSD									
			00-04-0007-3S									

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Calscience Environmental Laboratories, Inc.

DATE	DATA FILE	ID FILE	CEL ID #	INITIAL SAMPLE Vol(mL)/Wt(g)	FINAL SAMPLE Vol(mL)	DILUTION FACTOR	MS/MSD Lot #	MS/MSD Conc (ppm)	MS/MSD Vol (mL)	POS.	WHO	COMMENTS
4/4/00	00040401	00040401	00-04-0007-37	See sample							PA	
			-39	prep'n book								
			-40									
			-42									
			-44									
			CCV			5	M040100A	1.0	0.2			
			CCB									
			00-04-0007-45									
			-46									
			-48									
			-49									
			-50									
			-52									
			-53									
			-54									
			-56									
			-57									
			CCV			5	M040100A	1.0	0.2			
			Sample 003									
			00-04-0007-45									
			-46									
			-48									
			-49									
			-50									
			-52									
			-53									

Revised by: on / /

DATE	DATA FILE	ID FILE	CEL ID #	INITIAL SAMPLE Vol(mL)/Wt(g)	FINAL SAMPLE Vol(mL)	DILUTION FACTOR	MS/MSD Lot #	MS/MSD Conc (ppm)	MS/MSD Vol (mL)	POS.	WHO	COMMENTS
1/4/00	000404.01	000404.01	00-04-0007-54	See sample							PA	
			-56	prep'n book								
			-57									
			CCV			5	M040100A	1.0	0.2			
			Sample 003									
			007									
			005									
			003									
			000404LCS2									
			000404MB2									
			00-03-0972-11 MS									
			00-03-0972-11 MSD									
			-1									
			-2									
			-5									
			-6									
			-11									
			-16									
			CCV			5	M040100A	1.0	0.2			
			CCb									
			00-03-0972-22									
			-23									
			-30									
			-35									
			00-04-0068-1									
			00-04-0069-1									

DATE	DATA FILE	ID FILE	CEL ID #	INITIAL SAMPLE Vol(mL)/Wt(g)	FINAL SAMPLE Vol(mL)	DILUTION FACTOR	MS/MSD Lot #	MS/MSD Conc (ppm)	MS/MSD Vol (mL)	POS.	WHO	COMMENTS
4/4/00	00040401	00040401	00-04-0071-1	See sample							PA	
			00-04-0072-1	prep'n	book							
			00-04-0030-1									
			00-03-1114-1									
			ccv			5	M040100A	1.0	0.2			
			ccb									
			00-03-1139-12									
			-13									
			-14									
			00-04-0007-45									
			-46									
			-48									
			-49									
			-50									
			-52									
			-53									
			ccv			5	M040100A	1.0	0.2			
			ccb									
			00-04-0007-54									
			-56									
			-57									
			00-03-1163-4									
			00-03-1164-4									
			ccv			5	M040100A	1.0	0.2			
			ccb									
4/5/00 00040501 PA 4/4/00	00040501	00040501	Calib Blank									

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MERCURY SAMPLE PREPARATION

Calscience Environmental Laboratories, Inc.

MS Batch ID: 04-04-03-02-MS

Reagent Lot ID: 1 _____ 2 RC404001 3 RC404003 4 _____ 5 _____ 6 RC404002

MetPrep.xls

Date	Matrix S=Soil A=Aqueous Other(specify)	pH	Temp. (°C)	CEL ID Number	Sample W(g)/Vol(mL) Initial	Sample W(g)/Vol(mL) Final	Reagent 1=HNO3 2=KMnO4 3=HCl:HNO3 4=H2SO4 5=Na2S2O8 6=NH2OH-HCl	MS/LCS added Lot Number	MS/LCS added Conc (ppm)	MS/LCS added Vol (mL)	Who
4/4/00	S A O	NA	95°	Spike Sample 00-03-0972-11	0.60	100		MQ404A	1.0	0.5	
	S A O			Spike Duplicate	↓	↓		↓	↓	↓	
	S A O			000404-lcs2	100						
	S A O			000404-mb2	↓						
	S A O			00-03-0972-1	0.61						
	S A O			-2	0.61						
	S A O			-5	0.60						
	S A O			-6	0.61						
	S A O			-11	0.60						
	S A O			-16	0.59						
	S A O			-22	0.59						
	S A O			-23	0.61						
	S A O			-30	0.59						
	S A O			-35	0.60						
	S A O			00-03-1114-1	0.60						
	S A O			00-03-1139-12	0.61						
	S A O			-13	0.61						
	S A O			-14	0.60						
	S A O			00-04-0068-1	0.61						
	S A O			00-04-0069-1	0.60						
	S A O			00-04-0071-1	0.60						
	S A O			00-04-0072-1	0.61						
	S A O			00-04-0030-1	0.61						
	S A O										
	S A O										
	S A O										
	S A O										
	S A O										
	S A O										
	S A O										

Comments: _____

Reviewed by: _____ Date: ____/____/____

Sample Information File C:\AAUSER\SAMPINFO\00040401.SIF

Description :
Batch ID : 00040401
Volume Units :
Weight Units :
Analyst :
Sample Volume : 0.00

AS Loc	Sample ID	Sample Weight	Sample Units	User Dilution	Remarks
17	BLANK				
18	000403 LCS3			167.0000	
19	000403 MB3			167.0000	
20	00-04-0007-35 MS			167.0000	
21	00-04-0007-35 MSD			167.0000	
22	00-04-0007-35			167.0000	
23	00-04-0007-37			167.0000	
24	00-04-0007-39			167.0000	
25	00-04-0007-40			167.0000	
26	00-04-0007-42			167.0000	
27	00-04-0007-44			167.0000	
28	00-04-0007-45			167.0000	
29	00-04-0007-46			167.0000	
30	00-04-0007-48			167.0000	
31	00-04-0007-49			167.0000	
32	00-04-0007-50			167.0000	
33	00-04-0007-52			167.0000	
34	00-04-0007-53			167.0000	
35	00-04-0007-54			167.0000	
36	00-04-0007-56			167.0000	
37	00-04-0007-57			167.0000	
38	00-03-1163-4			167.0000	
39	00-03-1164-4			167.0000	
40	000404 LCS2			167.0000	
41	000404 MB2			167.0000	
42	00-03-0972-11 MS			167.0000	
43	00-03-0972-11 MSD			167.0000	
44	00-03-0972-1			167.0000	
45	00-03-0972-2			167.0000	
46	00-03-0972-5			167.0000	
47	00-03-0972-6			167.0000	
48	00-03-0972-11			167.0000	
49	00-03-0972-16			167.0000	
50	00-03-0972-22			167.0000	
51	00-03-0972-23			167.0000	
52	00-03-0972-30			167.0000	
53	00-03-0972-35			167.0000	
54	00-04-0068-1			167.0000	
55	00-04-0069-1			167.0000	
56	00-04-0071-1			167.0000	
57	00-04-0072-1			167.0000	
58	00-04-0030-1			167.0000	
59	00-03-1114-1			167.0000	
60	00-03-1139-12			167.0000	
61	00-03-1139-13			167.0000	
62	00-03-1139-14			167.0000	

Method Name: Hg
Method Description: 5 point cal
Element: Hg

Date: 04/04/2000
Technique:FI-MHS
Calibration Type:
Hg, Calc. Intercept : Linear
Wavelength: 253.7 nm
Sample Info Name: 00040401.SIF Results Data Set Name: 00040401

Element: Hg Seq. No.: 1 AS Loc.: 6 Date: 04/04/2000
Sample ID: Calib Blank

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1			0.0002	0.0027	0.0002	11:58:44	No
2			0.0002	0.0030	0.0002	11:59:28	No
3			0.0002	0.0024	0.0002	12:00:13	No
Mean:			0.0002				
SD :			0.0000				
%RSD:			6.0594				

Auto-zero performed.

Element: Hg Seq. No.: 2 AS Loc.: 1 Date: 04/04/2000
Sample ID: 0.50ppb

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1			0.0056	0.0271	0.0058	12:01:47	No
2			0.0057	0.0283	0.0059	12:02:32	No
3			0.0057	0.0282	0.0059	12:03:16	No
Mean:			0.0056				
SD :			0.0001				
%RSD:			0.9721				

[Hg] Standard number 1 applied. [0.50]
Correlation Coefficient: 1.00000 Slope: 0.01124
Intercept : 0.00000

Element: Hg Seq. No.: 3 AS Loc.: 2 Date: 04/04/2000
Sample ID: 1.00ppb

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1			0.0117	0.0578	0.0120	12:04:48	No
2			0.0118	0.0584	0.0120	12:05:32	No
3			0.0117	0.0579	0.0120	12:06:17	No
Mean:			0.0117				
SD :			0.0000				
%RSD:			0.1847				

[Hg] Standard number 2 applied. [1.00]
Correlation Coefficient: 0.99969 Slope: 0.01175
Intercept : -0.00008

Element: Hg Seq. No.: 4 AS Loc.: 3 Date: 04/04/2000
Sample ID: 2.00ppb

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1			0.0225	0.1098	0.0227	12:07:49	No
2			0.0224	0.1097	0.0226	12:08:34	No
3			0.0225	0.1099	0.0227	12:09:18	No
Mean:			0.0225				
SD :			0.0000				
%RSD:			0.2175				

[Hg] Standard number 3 applied. [2.00]
Correlation Coefficient: 0.99966 Slope: 0.01127
Intercept : 0.00010

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Element: Hg Seq. No.: 5 AS Loc.: 4 Date: 04/04/2000
Sample ID: 5.00ppb

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1			0.0566	0.2741	0.0568	12:10:53	No
2			0.0566	0.2741	0.0569	12:11:38	No
3			0.0568	0.2753	0.0570	12:12:22	No
Mean:			0.0567				
SD :			0.0001				
%RSD:			0.1552				

[Hg] Standard number 4 applied. [5.00]
Correlation Coefficient: 0.99995 Slope: 0.01132
Intercept : 0.00007

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Element: Hg Seq. No.: 6 AS Loc.: 5 Date: 04/04/2000
Sample ID: 10.00ppb

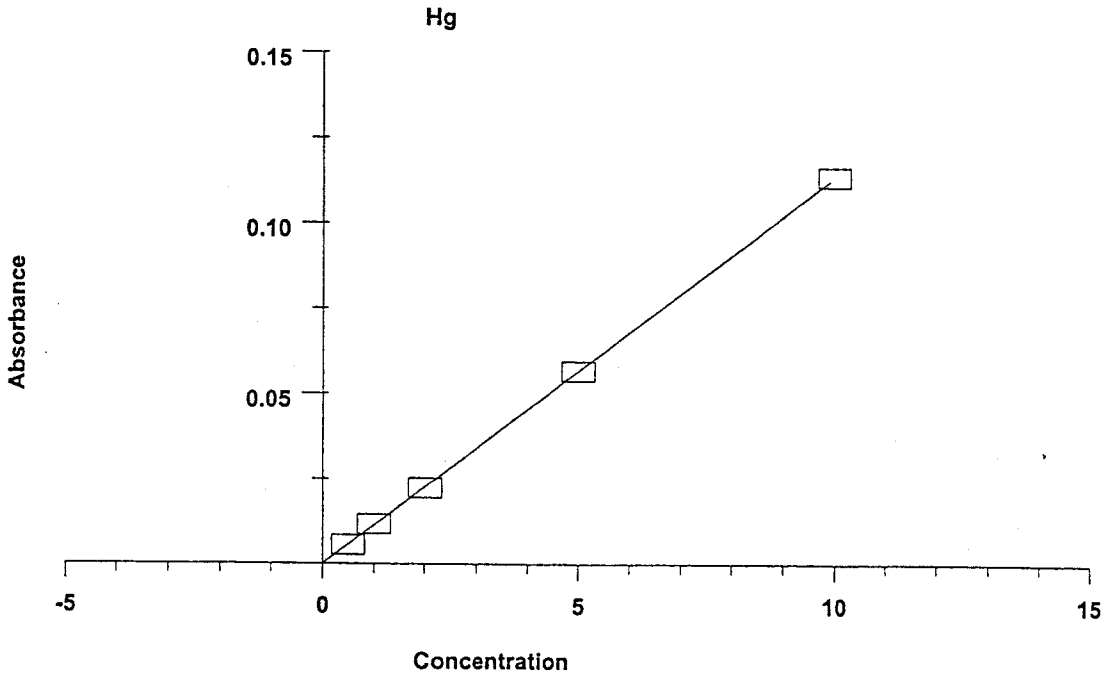
Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1			0.1134	0.5506	0.1137	12:13:56	No
2			0.1134	0.5492	0.1136	12:14:41	No
3			0.1135	0.5489	0.1137	12:15:25	No
Mean:			0.1134				
SD :			0.0000				
%RSD:							

[Hg] Standard number 5 applied. [10.00]
Correlation Coefficient: 0.99999 Slope: 0.01134
Intercept : 0.00004

Calibration data for Hg

Standard ID	Mean Signal (Pk Height)	Entered Concentration (µg/L)	Calculated Concentration (µg/L)	Standard Deviation	%RSD
Calib Blank	0.0002	--	----	----	----
0.50ppb	0.0056	0.50	0.49	0.000	1.0
1.00ppb	0.0117	1.00	1.03	0.000	0.2
2.00ppb	0.0225	2.00	1.98	0.000	0.2
5.00ppb	0.0567	5.00	5.00	0.000	0.2
10.00ppb	0.1134	10.00	10.00	0.000	----
Calib Blank	0.0002	--	----	----	----

Correlation Coefficient: 0.99999 Slope: 0.01134 Intercept: 0.0000



Element: Hg Seq. No.: 7 AS Loc.: 7 Date: 04/04/2000
Sample ID: icv

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	5.22	5.22	0.0592	0.2856	0.0594	12:17:06	No
2	5.23	5.23	0.0593	0.2858	0.0595	12:17:51	No
3	5.22	5.22	0.0592	0.2856	0.0594	12:18:35	No
Mean:	5.22	5.22	0.0592				
SD :	0.004	0.004	0.0000				
%RSD:							

QC value within specified limits.

Element: Hg Seq. No.: 8 AS Loc.: 6 Date: 04/04/2000
Sample ID: icb

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.02	-0.02	-0.0001	-0.0002	0.0001	12:20:12	No
2	-0.01	-0.01	-0.0001	0.0008	0.0001	12:20:56	No
3	-0.01	-0.01	-0.0001	0.0008	0.0001	12:21:41	No
Mean:	-0.01	-0.01	-0.0001				
SD :	0.003	0.003	0.0000				
%RSD:	21.3	21.3	30.0492				

QC value within specified limits.

Element: Hg Seq. No.: 9 AS Loc.: 17 Date: 04/04/2000
Sample ID: BLANK

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored

1	-0.01	-0.01	-0.0001	0.0000	0.0001	12:23:14	No
2	-0.01	-0.01	-0.0001	0.0005	0.0001	12:23:59	No
3	-0.01	-0.01	-0.0001	0.0005	0.0001	12:24:43	No
Mean:	-0.01	-0.01	-0.0001				
SD :	0.001	0.001	0.0000				
%RSD:	9.7	9.7	13.2588				

Element: Hg Seq. No.: 10 AS Loc.: 3 Date: 04/04/2000
Sample ID: ccv

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	2.01	2.01	0.0228	0.1103	0.0231	12:26:15	No
2	2.00	2.00	0.0228	0.1105	0.0230	12:27:00	No
3	2.01	2.01	0.0228	0.1101	0.0230	12:27:44	No
Mean:	2.01	2.01	0.0228				
SD :	0.004	0.004	0.0000				
%RSD:	0.2	0.2	0.2027				

QC value within specified limits.

Element: Hg Seq. No.: 11 AS Loc.: 6 Date: 04/04/2000
Sample ID: ccb

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.02	-0.02	-0.0001	-0.0001	0.0001	12:29:19	No
2	-0.01	-0.01	-0.0001	0.0007	0.0001	12:30:03	No
3	-0.01	-0.01	-0.0001	0.0004	0.0001	12:30:48	No
Mean:	-0.01	-0.01	-0.0001				
SD :	0.003	0.003	0.0000				
%RSD:	21.4	21.4	29.4405				

QC value within specified limits.

Element: Hg Seq. No.: 13 AS Loc.: 18 Date: 04/04/2000
Sample ID: 000403 LCS3

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	908.6	5.44	0.0617	0.2865	0.0619	03:35:33	No
2	907.5	5.43	0.0616	0.2852	0.0619	03:36:17	No
3	907.6	5.43	0.0617	0.2851	0.0619	03:37:02	No
Mean:	907.9	5.44	0.0617				
SD :	0.573	0.003	0.0000				
%RSD:							

Element: Hg Seq. No.: 14 AS Loc.: 19 Date: 04/04/2000
Sample ID: 000403 MB3

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-1.88	-0.01	-0.0001	0.0010	0.0001	03:38:33	No
2	-1.06	-0.01	0.0000	0.0018	0.0002	03:39:18	No
3	-1.23	-0.01	0.0000	0.0017	0.0002	03:40:02	No
Mean:	-1.39	-0.01	-0.0001				
SD :	0.434	0.003	0.0000				
%RSD:	31.3	31.3	55.7971				

Element: Hg Seq. No.: 15 AS Loc.: 20 Date: 04/04/2000
Sample ID: 00-04-0007-35 MS

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	988.5	5.92	0.0671	0.3084	0.0674	03:41:33	No
2	984.2	5.89	0.0669	0.3082	0.0671	03:42:18	No
3	990.6	5.93	0.0673	0.3096	0.0675	03:43:03	No
Mean:	987.8	5.91	0.0671				
SD :	3.279	0.020	0.0002				
%RSD:	0.3	0.3	0.3317				

Element: Hg Seq. No.: 16 AS Loc.: 21 Date: 04/04/2000
Sample ID: 00-04-0007-35 MSD

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	1009	6.04	0.0685	0.3153	0.0687	03:44:34	No
2	1013	6.07	0.0688	0.3145	0.0690	03:45:19	No
3	1015	6.08	0.0690	0.3145	0.0692	03:46:03	No
Mean:	1012	6.06	0.0688				
SD :	3.315	0.020	0.0002				
%RSD:	0.3	0.3	0.3273				

Element: Hg Seq. No.: 17 AS Loc.: 22 Date: 04/04/2000
Sample ID: 00-04-0007-35

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	107.7	0.64	0.0074	0.0341	0.0076	03:47:36	No
2	107.5	0.64	0.0073	0.0345	0.0076	03:48:20	No
3	108.3	0.65	0.0074	0.0346	0.0076	03:49:05	No
Mean:	107.8	0.65	0.0074				
SD :	0.390	0.002	0.0000				
%RSD:	0.4	0.4	0.3593				

Element: Hg Seq. No.: 18 AS Loc.: 23 Date: 04/04/2000
Sample ID: 00-04-0007-37

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	114.8	0.69	0.0078	0.0359	0.0081	03:50:37	No
2	116.7	0.70	0.0080	0.0371	0.0082	03:51:22	No
3	116.1	0.70	0.0079	0.0371	0.0081	03:52:06	No
Mean:	115.9	0.69	0.0079				
SD :	0.957	0.006	0.0001				
%RSD:	0.8	0.8	0.8216				

Element: Hg Seq. No.: 19 AS Loc.: 24 Date: 04/04/2000
Sample ID: 00-04-0007-39

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	54.52	0.33	0.0037	0.0175	0.0040	03:53:40	No
2	54.91	0.33	0.0038	0.0182	0.0040	03:54:24	No
3	54.86	0.33	0.0038	0.0181	0.0040	03:55:09	No
Mean:	54.76	0.33	0.0038				
SD :	0.211	0.001	0.0000				
%RSD:	0.4	0.4	0.3818				

Element: Hg Seq. No.: 20 AS Loc.: 25 Date: 04/04/2000
Sample ID: 00-04-0007-40

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	72.20	0.43	0.0049	0.0229	0.0052	03:56:42	No
2	73.00	0.44	0.0050	0.0238	0.0052	03:57:27	No
3	73.30	0.44	0.0050	0.0239	0.0052	03:58:11	No
Mean:	72.83	0.44	0.0050				
SD :	0.568	0.003	0.0000				
%RSD:	0.8	0.8	0.7735				

Element: Hg Seq. No.: 21 AS Loc.: 26 Date: 04/04/2000
Sample ID: 00-04-0007-42

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	108.9	0.65	0.0074	0.0343	0.0077	03:59:45	No
2	108.9	0.65	0.0074	0.0348	0.0077	04:00:30	No
3	108.1	0.65	0.0074	0.0340	0.0076	04:01:14	No
Mean:	108.6	0.65	0.0074				
SD :	0.463	0.003	0.0000				
%RSD:	0.4	0.4	0.4235				

Element: Hg Seq. No.: 22 AS Loc.: 27 Date: 04/04/2000
Sample ID: 00-04-0007-44

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	118.3	0.71	0.0081	0.0372	0.0083	04:02:49	No
2	119.5	0.72	0.0082	0.0376	0.0084	04:03:34	No
3	118.5	0.71	0.0081	0.0373	0.0083	04:04:19	No
Mean:	118.8	0.71	0.0081				
SD :	0.648	0.004	0.0000				
%RSD:	0.5	0.5	0.5429				

Element: Hg Seq. No.: 23 AS Loc.: 3 Date: 04/04/2000
Sample ID: ccv

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	2.18	2.18	0.0248	0.1119	0.0250	04:05:52	No
2	2.19	2.19	0.0248	0.1128	0.0251	04:06:37	No
3	2.20	2.20	0.0250	0.1136	0.0252	04:07:21	No
Mean:	2.19	2.19	0.0249				
SD :	0.011	0.011	0.0001				
%RSD:	0.5	0.5	0.4974				

QC value within specified limits.

Element: Hg Seq. No.: 24 AS Loc.: 6 Date: 04/04/2000
Sample ID: ccb

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.01	-0.01	-0.0001	0.0006	0.0001	04:08:56	No
2	-0.01	-0.01	-0.0001	0.0010	0.0001	04:09:41	No
3	-0.01	-0.01	-0.0001	0.0008	0.0001	04:10:25	No
Mean:	-0.01	-0.01	-0.0001				
SD :	0.001	0.001	0.0000				
%RSD:	11.5	11.5	16.9746				

QC value within specified limits.

Element: Hg Seq. No.: 25 AS Loc.: 28 Date: 04/04/2000
Sample ID: 00-04-0007-45

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	55.28	0.33	0.0038	0.0178	0.0040	04:12:01	No
2	55.85	0.33	0.0038	0.0185	0.0041	04:12:45	No
3	55.70	0.33	0.0038	0.0182	0.0040	04:13:30	No
Mean:	55.61	0.33	0.0038				
SD :	0.294	0.002	0.0000				
%RSD:	0.5	0.5	0.5232				

Element: Hg Seq. No.: 26 AS Loc.: 29 Date: 04/04/2000
Sample ID: 00-04-0007-46

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	51.92	0.31	0.0036	0.0167	0.0038	04:15:06	No
2	52.17	0.31	0.0036	0.0176	0.0038	04:15:51	No
3	52.09	0.31	0.0036	0.0170	0.0038	04:16:35	No
Mean:	52.06	0.31	0.0036				
SD :	0.131	0.001	0.0000				
%RSD:	0.3	0.3	0.2490				

Element: Hg Seq. No.: 27 AS Loc.: 30 Date: 04/04/2000
Sample ID: 00-04-0007-48

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	162.2	0.97	0.0111	0.0503	0.0113	04:18:11	No
2	163.5	0.98	0.0111	0.0515	0.0114	04:18:56	No
3	163.6	0.98	0.0111	0.0525	0.0114	04:19:40	No
Mean:	163.1	0.98	0.0111				

SD :	0.809	0.005	0.0001				
%RSD:	0.5	0.5	0.4940				

Element: Hg Seq. No.: 28 AS Loc.: 31 Date: 04/04/2000
Sample ID: 00-04-0007-49

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	34.12	0.20	0.0024	0.0115	0.0026	04:21:17	No
2	34.31	0.21	0.0024	0.0121	0.0026	04:22:01	No
3	34.47	0.21	0.0024	0.0118	0.0026	04:22:46	No
Mean:	34.30	0.21	0.0024				
SD :	0.177	0.001	0.0000				
%RSD:	0.5	0.5	0.5065				

Element: Hg Seq. No.: 29 AS Loc.: 32 Date: 04/04/2000
Sample ID: 00-04-0007-50

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	30.80	0.18	0.0021	0.0103	0.0024	04:24:19	No
2	31.59	0.19	0.0022	0.0110	0.0024	04:25:04	No
3	31.56	0.19	0.0022	0.0112	0.0024	04:25:48	No
Mean:	31.32	0.19	0.0022				
SD :	0.444	0.003	0.0000				
%RSD:	1.4	1.4	1.3921				

Element: Hg Seq. No.: 30 AS Loc.: 33 Date: 04/04/2000
Sample ID: 00-04-0007-52

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	38.46	0.23	0.0027	0.0126	0.0029	04:27:17	No
2	38.73	0.23	0.0027	0.0128	0.0029	04:28:02	No
3	38.25	0.23	0.0026	0.0128	0.0029	04:28:46	No
Mean:	38.48	0.23	0.0027				
SD :	0.240	0.001	0.0000				
%RSD:	0.6	0.6	0.6143				

Element: Hg Seq. No.: 31 AS Loc.: 34 Date: 04/04/2000
Sample ID: 00-04-0007-53

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-3.19	-0.02	-0.0002	0.0003	0.0000	04:30:15	No
2	-3.65	-0.02	-0.0002	-0.0002	0.0000	04:31:00	No
3	-3.60	-0.02	-0.0002	-0.0003	0.0000	04:31:44	No
Mean:	-3.48	-0.02	-0.0002				
SD :	0.256	0.002	0.0000				
%RSD:	7.4	7.4	8.9200				

Element: Hg Seq. No.: 32 AS Loc.: 35 Date: 04/04/2000
Sample ID: 00-04-0007-54

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-3.42	-0.02	-0.0002	-0.0002	0.0000	04:33:16	No

2	-3.47	-0.02	-0.0002	-0.0001	0.0000	04:34:00	No
3	-3.51	-0.02	-0.0002	-0.0002	0.0000	04:34:45	No
Mean:	-3.46	-0.02	-0.0002				
SD :	0.044	0.000	0.0000				
%RSD:	1.3	1.3	1.5383				

Element: Hg Seq. No.: 33 AS Loc.: 36 Date: 04/04/2000
Sample ID: 00-04-0007-56

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-3.35	-0.02	-0.0002	0.0000	0.0000	04:36:17	No
2	-3.66	-0.02	-0.0002	-0.0006	0.0000	04:37:02	No
3	-3.71	-0.02	-0.0002	-0.0003	0.0000	04:37:47	No
Mean:	-3.57	-0.02	-0.0002				
SD :	0.195	0.001	0.0000				
%RSD:	5.5	5.5	6.5991				

Element: Hg Seq. No.: 34 AS Loc.: 37 Date: 04/04/2000
Sample ID: 00-04-0007-57

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-3.71	-0.02	-0.0002	-0.0001	0.0000	04:39:18	No
2	-3.59	-0.02	-0.0002	-0.0001	0.0000	04:40:03	No
3	-2.53	-0.02	-0.0001	0.0000	0.0001	04:40:47	No
Mean:	-3.28	-0.02	-0.0002				
SD :	0.651	0.004	0.0000				
%RSD:	19.9	19.9	24.3990				

Element: Hg Seq. No.: 35 AS Loc.: 3 Date: 04/04/2000
Sample ID: ccv

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.02	-0.02	-0.0002	0.0001	0.0000	04:42:20	No
2	-0.02	-0.02	-0.0002	-0.0002	0.0000	04:43:04	No
3	-0.02	-0.02	-0.0002	-0.0002	0.0000	04:43:49	No
Mean:	-0.02	-0.02	-0.0002				
SD :	0.001	0.001	0.0000				
%RSD:	5.4	5.4	6.4674				

QC failed, value less than lower limit for Hg.

Element: Hg Seq. No.: 36 AS Loc.: 3 Date: 04/04/2000
Sample ID: ccv

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.02	-0.02	-0.0002	0.0000	0.0000	04:45:21	No
2	-0.02	-0.02	-0.0002	-0.0003	0.0000	04:46:06	No
3	-0.02	-0.02	-0.0002	-0.0001	0.0000	04:46:51	No
Mean:	-0.02	-0.02	-0.0002				
SD :	0.000	0.000	0.0000				
%RSD:	1.9	1.9	2.3219				

QC failed, value less than lower limit for Hg.
Current analysis method stopped.

ccv failed

Element: Hg Seq. No.: 37 AS Loc.: 3 Date: 04/04/2000
Sample ID: Sample003

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.02	-0.02	-0.0002	0.0007	0.0001	05:29:00	No

Element: Hg Seq. No.: 38 AS Loc.: 3 Date: 04/04/2000
Sample ID: Sample003

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	2.05	2.05	0.0233	0.1108	0.0235	05:36:03	No
2	2.07	2.07	0.0235	0.1114	0.0237	05:36:48	No
3	2.08	2.08	0.0236	0.1123	0.0238	05:37:32	No
Mean:	2.06	2.06	0.0234				
SD :	0.015	0.015	0.0002				
%RSD:	0.7	0.7	0.7408				

CCV checked OK

Element: Hg Seq. No.: 39 AS Loc.: 28 Date: 04/04/2000
Sample ID: 00-04-0007-45

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	57.59	0.34	0.0040	0.0201	0.0042	05:50:41	No
2	57.41	0.34	0.0039	0.0198	0.0042	05:51:26	No
3	57.54	0.34	0.0039	0.0198	0.0042	05:52:10	No
Mean:	57.52	0.34	0.0039				
SD :	0.092	0.001	0.0000				
%RSD:	0.2	0.2	0.1574				

Element: Hg Seq. No.: 40 AS Loc.: 29 Date: 04/04/2000
Sample ID: 00-04-0007-46

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	52.49	0.31	0.0036	0.0173	0.0038	05:53:46	No
2	53.39	0.32	0.0037	0.0176	0.0039	05:54:31	No
3	52.92	0.32	0.0036	0.0176	0.0039	05:55:15	No
Mean:	52.93	0.32	0.0036				
SD :	0.453	0.003	0.0000				
%RSD:	0.9	0.9	0.8469				

Element: Hg Seq. No.: 41 AS Loc.: 30 Date: 04/04/2000
Sample ID: 00-04-0007-48

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	164.8	0.99	0.0112	0.0524	0.0114	05:56:52	No
2	166.6	1.00	0.0114	0.0534	0.0116	05:57:36	No
3	161.9	0.97	0.0110	0.0502	0.0113	05:58:21	No
Mean:	164.4	0.98	0.0112				
SD :	2.379	0.014	0.0002				
%RSD:	1.4	1.4	1.4415				

Element: Hg Seq. No.: 42 AS Loc.: 31 Date: 04/04/2000
Sample ID: 00-04-0007-49

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	33.29	0.20	0.0023	0.0116	0.0025	05:59:57	No
2	33.00	0.20	0.0023	0.0118	0.0025	06:00:42	No
3	33.09	0.20	0.0023	0.0118	0.0025	06:01:26	No
Mean:	33.13	0.20	0.0023				
SD :	0.147	0.001	0.0000				
%RSD:	0.4	0.4	0.4356				

Element: Hg Seq. No.: 43 AS Loc.: 32 Date: 04/04/2000
Sample ID: 00-04-0007-50

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	30.30	0.18	0.0021	0.0101	0.0023	06:03:00	No
2	31.62	0.19	0.0022	0.0116	0.0024	06:03:45	No
3	31.34	0.19	0.0022	0.0115	0.0024	06:04:29	No
Mean:	31.08	0.19	0.0022				
SD :	0.697	0.004	0.0000				
%RSD:	2.2	2.2	2.2002				

Element: Hg Seq. No.: 44 AS Loc.: 33 Date: 04/04/2000
Sample ID: 00-04-0007-52

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	39.58	0.24	0.0027	0.0134	0.0029	06:05:59	No
2	39.85	0.24	0.0027	0.0136	0.0030	06:06:43	No
3	39.83	0.24	0.0027	0.0138	0.0030	06:07:28	No
Mean:	39.75	0.24	0.0027				
SD :	0.149	0.001	0.0000				
%RSD:	0.4	0.4	0.3691				

Element: Hg Seq. No.: 45 AS Loc.: 34 Date: 04/04/2000
Sample ID: 00-04-0007-53

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.74	0.00	0.0000	-0.0001	0.0002	06:08:58	No
2	-2.72	-0.02	-0.0001	-0.0003	0.0001	06:09:43	No
3	-3.30	-0.02	-0.0002	-0.0005	0.0000	06:10:27	No
Mean:	-2.25	-0.01	-0.0001				
SD :	1.345	0.008	0.0001				
%RSD:	59.7	59.7	81.8184				

Element: Hg Seq. No.: 46 AS Loc.: 35 Date: 04/04/2000
Sample ID: 00-04-0007-54

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-3.74	-0.02	-0.0002	-0.0005	0.0000	06:11:58	No
2	-3.63	-0.02	-0.0002	-0.0012	0.0000	06:12:43	No
3	-3.56	-0.02	-0.0002	-0.0005	0.0000	06:13:28	No
Mean:	-3.64	-0.02	-0.0002				
SD :	0.091	0.001	0.0000				
%RSD:	2.5	2.5	3.0048				

Element: Hg Seq. No.: 47 AS Loc.: 36 Date: 04/04/2000
Sample ID: 00-04-0007-56

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-3.59	-0.02	-0.0002	-0.0005	0.0000	06:15:00	No
2	-3.65	-0.02	-0.0002	-0.0006	0.0000	06:15:45	No
3	-3.60	-0.02	-0.0002	-0.0009	0.0000	06:16:29	No
Mean:	-3.61	-0.02	-0.0002				
SD :	0.031	0.000	0.0000				
%RSD:	0.9	0.9	1.0282				

Element: Hg Seq. No.: 48 AS Loc.: 37 Date: 04/04/2000
Sample ID: 00-04-0007-57

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-3.39	-0.02	-0.0002	-0.0003	0.0000	06:18:01	No
2	-3.59	-0.02	-0.0002	-0.0003	0.0000	06:18:45	No
3	-3.41	-0.02	-0.0002	-0.0006	0.0000	06:19:30	No
Mean:	-3.46	-0.02	-0.0002				
SD :	0.109	0.001	0.0000				
%RSD:	3.2	3.2	3.8379				

Element: Hg Seq. No.: 49 AS Loc.: 3 Date: 04/04/2000
Sample ID: ccv

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.02	-0.02	-0.0001	0.0001	0.0001	06:21:03	No
2	-0.02	-0.02	-0.0001	0.0003	0.0001	06:21:48	No
3	-0.02	-0.02	-0.0002	-0.0001	0.0001	06:22:33	No
Mean:	-0.02	-0.02	-0.0002				
SD :	0.001	0.001	0.0000				
%RSD:	7.5	7.5	9.6141				

QC failed, value less than lower limit for Hg.

Element: Hg Seq. No.: 50 AS Loc.: 3 Date: 04/04/2000
Sample ID: ccv

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.02	-0.02	-0.0002	0.0000	0.0001	06:24:05	No
2	-0.02	-0.02	-0.0002	0.0002	0.0000	06:24:49	No
3	-0.02	-0.02	-0.0002	0.0000	0.0000	06:25:34	No
Mean:	-0.02	-0.02	-0.0002				
SD :	0.002	0.002	0.0000				
%RSD:	10.3	10.3	12.7223				

QC failed, value less than lower limit for Hg.
Current analysis method stopped.

Element: Hg Seq. No.: 51 AS Loc.: 3 Date: 04/04/2000
Sample ID: Sample003

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.02	-0.02	-0.0002	-0.0003	0.0000	06:31:48	No
2	-0.03	-0.03	-0.0003	-0.0140	-0.0001	06:32:32	No
3	-0.02	-0.02	-0.0002	-0.0003	0.0000	06:33:18	No
Mean:	-0.02	-0.02	-0.0002				
SD :	0.006	0.006	0.0001				
%RSD:	24.5	24.5	29.2488				

CCV failed

Element: Hg Seq. No.: 57 AS Loc.: 40 Date: 04/04/2000
Sample ID: 000404 LCS2

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	950.5	5.69	0.0646	0.2967	0.0648	07:02:04	No
2	951.2	5.70	0.0646	0.2962	0.0648	07:02:49	No
3	944.0	5.65	0.0641	0.2975	0.0643	07:03:33	No
Mean:	948.6	5.68	0.0644				
SD :	3.996	0.024	0.0003				
%RSD:	0.4	0.4	0.4210				

Element: Hg Seq. No.: 58 AS Loc.: 41 Date: 04/04/2000
Sample ID: 000404 MB2

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-1.54	-0.01	-0.0001	0.0010	0.0002	07:05:07	No
2	-1.44	-0.01	-0.0001	0.0009	0.0002	07:05:51	No
3	-1.64	-0.01	-0.0001	0.0010	0.0002	07:06:36	No
Mean:	-1.54	-0.01	-0.0001				
SD :	0.100	0.001	0.0000				
%RSD:	6.5	6.5	10.8287				

Element: Hg Seq. No.: 59 AS Loc.: 42 Date: 04/04/2000
Sample ID: 00-03-0972-11 MS

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	992.1	5.94	0.0674	0.3116	0.0676	07:08:09	No
2	993.7	5.95	0.0675	0.3115	0.0677	07:08:54	No
3	995.9	5.96	0.0676	0.3117	0.0679	07:09:38	No
Mean:	993.9	5.95	0.0675				
SD :	1.930	0.012	0.0001				
%RSD:	0.2	0.2	0.1941				

Element: Hg Seq. No.: 60 AS Loc.: 43 Date: 04/04/2000
Sample ID: 00-03-0972-11 MSD

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	991.0	5.93	0.0673	0.3106	0.0675	07:11:13	No
2	995.9	5.96	0.0676	0.3118	0.0679	07:11:57	No
3	990.7	5.93	0.0673	0.3116	0.0675	07:12:42	No
Mean:	992.6	5.94	0.0674				
SD :	2.910	0.017	0.0002				
%RSD:	0.3	0.3	0.2930				

Element: Hg Seq. No.: 61 AS Loc.: 44 Date: 04/04/2000
Sample ID: 00-03-0972-1

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	3.71	0.02	0.0003	0.0023	0.0005	07:14:17	No
2	3.22	0.02	0.0003	0.0021	0.0005	07:15:02	No
3	4.05	0.02	0.0003	0.0024	0.0005	07:15:46	No
Mean:	3.66	0.02	0.0003				
SD :	0.415	0.002	0.0000				
%RSD:	11.3	11.3	9.7107				

Element: Hg Seq. No.: 62 AS Loc.: 45 Date: 04/04/2000
Sample ID: 00-03-0972-2

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	12.79	0.08	0.0009	0.0055	0.0011	07:17:22	No
2	12.99	0.08	0.0009	0.0054	0.0011	07:18:06	No
3	12.99	0.08	0.0009	0.0055	0.0011	07:18:51	No
Mean:	12.93	0.08	0.0009				
SD :	0.119	0.001	0.0000				
%RSD:	0.9	0.9	0.8802				

Element: Hg Seq. No.: 63 AS Loc.: 46 Date: 04/04/2000
Sample ID: 00-03-0972-5

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	35.39	0.21	0.0024	0.0125	0.0027	07:20:26	No
2	35.51	0.21	0.0025	0.0123	0.0027	07:21:11	No
3	35.67	0.21	0.0025	0.0125	0.0027	07:21:55	No
Mean:	35.52	0.21	0.0025				
SD :	0.137	0.001	0.0000				
%RSD:	0.4	0.4	0.3794				

Element: Hg Seq. No.: 64 AS Loc.: 47 Date: 04/04/2000
Sample ID: 00-03-0972-6

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	31.63	0.19	0.0022	0.0113	0.0024	07:23:32	No
2	31.60	0.19	0.0022	0.0115	0.0024	07:24:16	No
3	31.39	0.19	0.0022	0.0117	0.0024	07:25:01	No
Mean:	31.54	0.19	0.0022				
SD :	0.134	0.001	0.0000				
%RSD:	0.4	0.4	0.4162				

Element: Hg Seq. No.: 65 AS Loc.: 48 Date: 04/04/2000
Sample ID: 00-03-0972-11

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	24.17	0.14	0.0017	0.0088	0.0019	07:26:34	No
2	24.61	0.15	0.0017	0.0090	0.0019	07:27:19	No
3	24.66	0.15	0.0017	0.0091	0.0019	07:28:03	No
Mean:	24.48	0.15	0.0017				
SD :	0.272	0.002	0.0000				
%RSD:	1.1	1.1	1.0845				

Element: Hg Seq. No.: 66 AS Loc.: 49 Date: 04/04/2000
Sample ID: 00-03-0972-16

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	3.28	0.02	0.0003	0.0021	0.0005	07:29:33	No
2	3.57	0.02	0.0003	0.0025	0.0005	07:30:17	No
3	4.00	0.02	0.0003	0.0029	0.0005	07:31:02	No
Mean:	3.61	0.02	0.0003				
SD :	0.363	0.002	0.0000				
%RSD:	10.0	10.0	8.5825				

Element: Hg Seq. No.: 67 AS Loc.: 3 Date: 04/04/2000
Sample ID: ccv

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	2.14	2.14	0.0243	0.1131	0.0245	07:32:32	No
2	2.15	2.15	0.0244	0.1131	0.0246	07:33:17	No
3	2.18	2.18	0.0248	0.1139	0.0250	07:34:01	No
Mean:	2.16	2.16	0.0245				
SD :	0.022	0.022	0.0003				
%RSD:	1.0	1.0	1.0362				

QC value within specified limits.

Element: Hg Seq. No.: 68 AS Loc.: 6 Date: 04/04/2000
Sample ID: ccb

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.01	-0.01	-0.0001	0.0007	0.0001	07:35:36	No
2	-0.01	-0.01	-0.0001	0.0008	0.0001	07:36:20	No
3	-0.01	-0.01	-0.0001	0.0004	0.0001	07:37:05	No
Mean:	-0.01	-0.01	-0.0001				
SD :	0.002	0.002	0.0000				
%RSD:	18.4	18.4	26.5606				

Element: Hg Seq. No.: 69 AS Loc.: 50 Date: 04/04/2000
Sample ID: 00-03-0972-22

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	7.36	0.04	0.0005	0.0039	0.0008	07:41:37	No
2	7.35	0.04	0.0005	0.0035	0.0008	07:42:21	No
3	7.43	0.04	0.0005	0.0035	0.0008	07:43:06	No
Mean:	7.38	0.04	0.0005				
SD :	0.045	0.000	0.0000				
%RSD:	0.6	0.6	0.5609				

Element: Hg Seq. No.: 70 AS Loc.: 51 Date: 04/04/2000
Sample ID: 00-03-0972-23

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	10.58	0.06	0.0008	0.0044	0.0010	07:44:36	No
2	10.10	0.06	0.0007	0.0043	0.0009	07:45:21	No
3	10.58	0.06	0.0008	0.0047	0.0010	07:46:05	No
Mean:	10.42	0.06	0.0007				
SD :	0.276	0.002	0.0000				
%RSD:	2.7	2.7	2.5060				

Element: Hg Seq. No.: 71 AS Loc.: 52 Date: 04/04/2000
Sample ID: 00-03-0972-30

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	6.73	0.04	0.0005	0.0035	0.0007	07:47:38	No
2	6.98	0.04	0.0005	0.0035	0.0007	07:48:22	No
3	6.85	0.04	0.0005	0.0036	0.0007	07:49:07	No
Mean:	6.85	0.04	0.0005				
SD :	0.122	0.001	0.0000				
%RSD:	1.8	1.8	1.6336				

Element: Hg Seq. No.: 72 AS Loc.: 53 Date: 04/04/2000
Sample ID: 00-03-0972-35

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	5.17	0.03	0.0004	0.0029	0.0006	07:50:38	No
2	5.13	0.03	0.0004	0.0030	0.0006	07:51:23	No
3	5.35	0.03	0.0004	0.0030	0.0006	07:52:07	No
Mean:	5.22	0.03	0.0004				
SD :	0.119	0.001	0.0000				
%RSD:	2.3	2.3	2.0394				

Element: Hg Seq. No.: 73 AS Loc.: 54 Date: 04/04/2000
Sample ID: 00-04-0068-1

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.02	0.00	0.0000	0.0014	0.0003	07:53:39	No
2	0.37	0.00	0.0001	0.0015	0.0003	07:54:23	No
3	0.21	0.00	0.0001	0.0013	0.0003	07:55:08	No
Mean:	0.20	0.00	0.0001				
SD :	0.177	0.001	0.0000				
%RSD:	88.0	88.0	21.8607				

Element: Hg Seq. No.: 74 AS Loc.: 55 Date: 04/04/2000
Sample ID: 00-04-0069-1

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	1.62	0.01	0.0002	0.0017	0.0004	07:56:40	No
2	1.42	0.01	0.0001	0.0015	0.0004	07:57:25	No
3	1.89	0.01	0.0002	0.0015	0.0004	07:58:09	No
Mean:	1.65	0.01	0.0002				
SD :	0.234	0.001	0.0000				
%RSD:	14.2	14.2	10.3785				

Element: Hg Seq. No.: 75 AS Loc.: 56 Date: 04/04/2000
Sample ID: 00-04-0071-1

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	5.10	0.03	0.0004	0.0029	0.0006	07:59:43	No
2	4.89	0.03	0.0004	0.0028	0.0006	08:00:27	No
3	5.49	0.03	0.0004	0.0033	0.0006	08:01:12	No
Mean:	5.16	0.03	0.0004				
SD :	0.306	0.002	0.0000				
%RSD:	5.9	5.9	5.3086				

Element: Hg Seq. No.: 76 AS Loc.: 57 Date: 04/04/2000
Sample ID: 00-04-0072-1

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	1.05	0.01	0.0001	0.0014	0.0003	08:02:45	No
2	1.52	0.01	0.0001	0.0019	0.0004	08:03:30	No
3	1.02	0.01	0.0001	0.0011	0.0003	08:04:15	No
Mean:	1.20	0.01	0.0001				
SD :	0.280	0.002	0.0000				
%RSD:	23.4	23.4	15.4950				

Element: Hg Seq. No.: 77 AS Loc.: 58 Date: 04/04/2000
Sample ID: 00-04-0030-1

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.08	0.00	0.0000	0.0013	0.0003	08:05:48	No
2	-0.18	0.00	0.0000	0.0013	0.0003	08:06:33	No
3	0.76	0.00	0.0001	0.0023	0.0003	08:07:17	No
Mean:	0.22	0.00	0.0001				
SD :	0.485	0.003	0.0000				
%RSD:	219.4	219.4	58.4074				

Element: Hg Seq. No.: 78 AS Loc.: 59 Date: 04/04/2000
Sample ID: 00-03-1114-1

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-1.29	-0.01	0.0000	0.0009	0.0002	08:08:51	No
2	-1.17	-0.01	0.0000	0.0010	0.0002	08:09:35	No
3	-1.65	-0.01	-0.0001	0.0007	0.0002	08:10:20	No
Mean:	-1.37	-0.01	-0.0001				
SD :	0.247	0.001	0.0000				
%RSD:	18.0	18.0	32.5036				

Element: Hg Seq. No.: 79 AS Loc.: 3 Date: 04/04/2000
Sample ID: ccv

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	2.13	2.13	0.0242	0.1150	0.0244	08:11:53	No
2	2.12	2.12	0.0241	0.1149	0.0243	08:12:38	No
3	2.12	2.12	0.0241	0.1145	0.0243	08:13:23	No
Mean:	2.13	2.13	0.0241				
SD :	0.006	0.006	0.0001				
%RSD:	0.3	0.3	0.3031				

QC value within specified limits.

Element: Hg Seq. No.: 80 AS Loc.: 6 Date: 04/04/2000
Sample ID: ccb

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.01	-0.01	-0.0001	0.0007	0.0001	08:14:57	No
2	-0.01	-0.01	-0.0001	0.0010	0.0001	08:15:42	No
3	-0.01	-0.01	-0.0001	0.0009	0.0001	08:16:26	No
Mean:	-0.01	-0.01	-0.0001				
SD :	0.001	0.001	0.0000				
%RSD:	9.4	9.4	13.8882				

QC value within specified limits.

Element: Hg Seq. No.: 81 AS Loc.: 60 Date: 04/04/2000
Sample ID: 00-03-1139-12

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	2.82	0.02	0.0002	0.0027	0.0005	08:18:02	No
2	2.45	0.01	0.0002	0.0022	0.0004	08:18:46	No
3	2.39	0.01	0.0002	0.0022	0.0004	08:19:31	No
Mean:	2.55	0.02	0.0002				
SD :	0.236	0.001	0.0000				
%RSD:	9.2	9.2	7.4575				

Element: Hg Seq. No.: 82 AS Loc.: 61 Date: 04/04/2000
Sample ID: 00-03-1139-13

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	3.38	0.02	0.0003	0.0026	0.0005	08:21:06	No
2	3.36	0.02	0.0003	0.0029	0.0005	08:21:51	No
3	3.33	0.02	0.0003	0.0024	0.0005	08:22:36	No
Mean:	3.36	0.02	0.0003				
SD :	0.027	0.000	0.0000				
%RSD:	0.8	0.8	0.6736				

Element: Hg Seq. No.: 83 AS Loc.: 62 Date: 04/04/2000
Sample ID: 00-03-1139-14

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	4.25	0.03	0.0003	0.0026	0.0006	08:24:11	No
2	4.69	0.03	0.0004	0.0028	0.0006	08:24:56	No
3	5.05	0.03	0.0004	0.0031	0.0006	08:25:40	No
Mean:	4.66	0.03	0.0004				

SD :	0.404	0.002	0.0000
%RSD:	8.7	8.7	7.6553

Element: Hg Seq. No.: 84 AS Loc.: 28 Date: 04/04/2000
Sample ID: 00-04-0007-45

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	57.57	0.34	0.0039	0.0199	0.0042	08:27:17	No
2	57.59	0.34	0.0040	0.0197	0.0042	08:28:01	No
3	57.03	0.34	0.0039	0.0200	0.0041	08:28:46	No
Mean:	57.40	0.34	0.0039				
SD :	0.316	0.002	0.0000				
%RSD:	0.6	0.6	0.5456				

Element: Hg Seq. No.: 85 AS Loc.: 29 Date: 04/04/2000
Sample ID: 00-04-0007-46

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	53.48	0.32	0.0037	0.0186	0.0039	08:30:22	No
2	53.56	0.32	0.0037	0.0187	0.0039	08:31:07	No
3	53.81	0.32	0.0037	0.0190	0.0039	08:31:51	No
Mean:	53.62	0.32	0.0037				
SD :	0.171	0.001	0.0000				
%RSD:	0.3	0.3	0.3153				

Element: Hg Seq. No.: 86 AS Loc.: 30 Date: 04/04/2000
Sample ID: 00-04-0007-48

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	167.2	1.00	0.0114	0.0552	0.0116	08:33:27	No
2	167.4	1.00	0.0114	0.0551	0.0116	08:34:12	No
3	167.9	1.01	0.0114	0.0551	0.0117	08:34:56	No
Mean:	167.5	1.00	0.0114				
SD :	0.347	0.002	0.0000				
%RSD:	0.2	0.2	0.2062				

Element: Hg Seq. No.: 87 AS Loc.: 31 Date: 04/04/2000
Sample ID: 00-04-0007-49

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	34.71	0.21	0.0024	0.0122	0.0026	08:36:32	No
2	34.89	0.21	0.0024	0.0122	0.0026	08:37:17	No
3	34.80	0.21	0.0024	0.0121	0.0026	08:38:01	No
Mean:	34.80	0.21	0.0024				
SD :	0.089	0.001	0.0000				
%RSD:	0.3	0.3	0.2510				

Element: Hg Seq. No.: 88 AS Loc.: 32 Date: 04/04/2000
Sample ID: 00-04-0007-50

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	30.60	0.18	0.0021	0.0109	0.0023	08:39:34	No

2	30.48	0.18	0.0021	0.0110	0.0023	08:40:19	No
3	30.17	0.18	0.0021	0.0106	0.0023	08:41:03	No
Mean:	30.42	0.18	0.0021				
SD :	0.223	0.001	0.0000				
%RSD:	0.7	0.7	0.7174				

Element: Hg Seq. No.: 89 AS Loc.: 33 Date: 04/04/2000
Sample ID: 00-04-0007-52

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	39.41	0.24	0.0027	0.0136	0.0029	08:42:32	No
2	39.73	0.24	0.0027	0.0139	0.0030	08:43:17	No
3	39.04	0.23	0.0027	0.0134	0.0029	08:44:02	No
Mean:	39.39	0.24	0.0027				
SD :	0.346	0.002	0.0000				
%RSD:	0.9	0.9	0.8651				

Element: Hg Seq. No.: 90 AS Loc.: 34 Date: 04/04/2000
Sample ID: 00-04-0007-53

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	95.18	0.57	0.0065	0.0317	0.0067	08:45:32	No
2	94.74	0.57	0.0065	0.0317	0.0067	08:46:16	No
3	95.39	0.57	0.0065	0.0315	0.0067	08:47:01	No
Mean:	95.10	0.57	0.0065				
SD :	0.334	0.002	0.0000				
%RSD:	0.4	0.4	0.3488				

Element: Hg Seq. No.: 91 AS Loc.: 3 Date: 04/04/2000
Sample ID: ccv

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	2.10	2.10	0.0238	0.1143	0.0240	08:48:32	No
2	2.10	2.10	0.0238	0.1137	0.0240	08:49:17	No
3	2.10	2.10	0.0239	0.1143	0.0241	08:50:02	No
Mean:	2.10	2.10	0.0238				
SD :	0.002	0.002	0.0000				
%RSD:							

QC value within specified limits.

Element: Hg Seq. No.: 92 AS Loc.: 6 Date: 04/04/2000
Sample ID: ccb

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.01	-0.01	-0.0001	0.0005	0.0001	08:51:36	No
2	-0.01	-0.01	-0.0001	0.0006	0.0001	08:52:21	No
3	-0.01	-0.01	-0.0001	0.0006	0.0001	08:53:05	No
Mean:	-0.01	-0.01	-0.0001				
SD :	0.000	0.000	0.0000				
%RSD:	3.4	3.4	4.7028				

QC value within specified limits.

Element: Hg Seq. No.: 93 AS Loc.: 35 Date: 04/04/2000

Sample ID: 00-04-0007-54

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	48.15	0.29	0.0033	0.0166	0.0035	08:54:38	No
2	48.34	0.29	0.0033	0.0172	0.0035	08:55:23	No
3	48.47	0.29	0.0033	0.0169	0.0036	08:56:07	No
Mean:	48.32	0.29	0.0033				
SD :	0.160	0.001	0.0000				
%RSD:	0.3	0.3	0.3278				

Element: Hg Seq. No.: 94 AS Loc.: 36 Date: 04/04/2000
Sample ID: 00-04-0007-56

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	71.76	0.43	0.0049	0.0247	0.0051	08:57:39	No
2	71.81	0.43	0.0049	0.0249	0.0051	08:58:23	No
3	72.55	0.43	0.0050	0.0254	0.0052	08:59:08	No
Mean:	72.04	0.43	0.0049				
SD :	0.442	0.003	0.0000				
%RSD:	0.6	0.6	0.6087				

Element: Hg Seq. No.: 95 AS Loc.: 37 Date: 04/04/2000
Sample ID: 00-04-0007-57

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	38.93	0.23	0.0027	0.0135	0.0029	09:00:39	No
2	38.72	0.23	0.0027	0.0134	0.0029	09:01:24	No
3	39.60	0.24	0.0027	0.0141	0.0030	09:02:08	No
Mean:	39.08	0.23	0.0027				
SD :	0.458	0.003	0.0000				
%RSD:	1.2	1.2	1.1536				

Element: Hg Seq. No.: 96 AS Loc.: 38 Date: 04/04/2000
Sample ID: 00-03-1163-4

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-1.07	-0.01	0.0000	0.0008	0.0002	09:03:40	No
2	-0.63	0.00	0.0000	0.0013	0.0002	09:04:24	No
3	-0.59	0.00	0.0000	0.0013	0.0002	09:05:09	No
Mean:	-0.76	0.00	0.0000				
SD :	0.268	0.002	0.0000				
%RSD:	35.2	35.2	176.4902				

Element: Hg Seq. No.: 97 AS Loc.: 39 Date: 04/04/2000
Sample ID: 00-03-1164-4

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-1.01	-0.01	0.0000	0.0009	0.0002	09:06:41	No
2	-1.28	-0.01	0.0000	0.0009	0.0002	09:07:26	No
3	-1.27	-0.01	0.0000	0.0007	0.0002	09:08:11	No
Mean:	-1.19	-0.01	0.0000				
SD :	0.154	0.001	0.0000				
%RSD:	12.9	12.9	26.6431				

Element: Hg Seq. No.: 98 AS Loc.: 3 Date: 04/04/2000
Sample ID: ccv

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	2.09	2.09	0.0238	0.1141	0.0240	09:09:43	No
2	2.10	2.10	0.0238	0.1141	0.0240	09:10:27	No
3	2.10	2.10	0.0238	0.1148	0.0240	09:11:12	No
Mean:	2.09	2.09	0.0238				
SD :	0.000	0.000	0.0000				
%RSD:							

QC value within specified limits.

Element: Hg Seq. No.: 99 AS Loc.: 6 Date: 04/04/2000
Sample ID: ccb

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.01	-0.01	-0.0001	0.0007	0.0001	09:12:46	No
2	-0.01	-0.01	-0.0001	0.0008	0.0001	09:13:31	No
3	-0.01	-0.01	-0.0001	0.0008	0.0001	09:14:16	No
Mean:	-0.01	-0.01	-0.0001				
SD :	0.000	0.000	0.0000				
%RSD:	0.6	0.6	0.8279				

QC value within specified limits.

Pacific Treatment
Analytical Services, Inc.

4340 Viewridge Avenue, Suite A • San Diego, CA 92123
(858) 560-7717 • Fax (858) 560-7763
Analytical Chemistry Laboratory

April 18, 2000

Calscience Environmental Laboratories, Inc.
Attn.: Bob Sterns
7440 Lincoln Way
Garden Grove, California 92841-1432

Project Name/No.: 00-03-1139, 00-03-1138
Laboratory Log No.: 0797-00
Date Received: 04/04/00
Sample Matrix: Three solid samples and one water sample
PO No.: Verbal per B. Sterns

Please find the following enclosures for the above referenced project identified:

1) Analytical Report
2) QA/QC Report
3) Chain of Custody Form

.....***Certificate of Analysis***.....

Samples were analyzed pursuant to client request utilizing EPA or other ELAP approved methodologies. Date of extraction, date of analysis, detection limits and dilution factor are reported for each compound analyzed. All samples were analyzed within the method required holding time from sample collection.

Data for each analytical method was evaluated by assessing the following QA/QC functions, as applicable to the methodology:

- Quality Control Standard
- Surrogate Percent Recovery
- Laboratory Control Sample (LCS) percent recoveries for all analyses
- Matrix Spike Recovery/Matrix Spike Duplicate Recovery (MSR & MSDR) and/or
- Relative Percent Difference (RPD from MSR & MSDR)

I certify that this data report is in compliance both technically and for completeness. Release of the data contained in this hardcopy data report has been authorized by the following signature.

Janis Columbo
Vice President/Laboratory Director

ANALYSIS RESULTS - ORGANOTIN SPECIES by GC-FPD

CLIENT: CALSCIENCE ENVIRONMENTAL LABORATORIES, INC.	DATE SAMPLED: N/A
	DATE RECEIVED: N/A
PROJECT NAME/No.: 00-03-1139, 00-03-1138	DATE EXTRACTED: 04/06/00
PTAS LOG #: METHOD BLANK	DATE ANALYZED: 04/10/00
SAMPLE ID: N/A	MATRIX: WATER
DILUTION FACTOR: 1	SAMPLE VOL./WT.: 1000 ML

ANALYTE	REPORTING LIMITS PPB (UG/L)	RESULTS PPB (UG/L)
TRIBUTYLTIN	0.005	ND
DIBUTYLTIN	0.020	ND
MONOBUTYLTIN	0.020	ND

DF = DILUTION FACTOR
ND = ANALYTE NOT DETECTED AT OR ABOVE THE INDICATED REPORTING LIMIT
REPORTING LIMITS AND RESULTS HAVE BEEN ADJUSTED ACCORDINGLY TO ACCOUNT FOR DILUTION FACTOR.

SURROGATE PARAMETER	ACCEPTANCE CRITERIA	% RECOVERY
TRIPROPYLTIN	39-139	100

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ANALYSIS RESULTS - ORGANOTIN SPECIES by GC-FPD

CLIENT: CALSCIENCE ENVIRONMENTAL LABORATORIES, INC.	DATE SAMPLED: 03/30/00
	DATE RECEIVED: 04/04/00
PROJECT NAME/No.: 00-03-1139, 00-03-1138	DATE EXTRACTED: 04/06/00
PTAS LOG #: 0797-00-4	DATE ANALYZED: 04/10/00
SAMPLE ID: VC00-A3-EB1	MATRIX: WATER
DILUTION FACTOR: 1	SAMPLE VOL./WT.: 1000 ML

ANALYTE	REPORTING LIMITS PPB (UG/L)	RESULTS PPB (UG/L)
TRIBUTYLTIN	0.005	ND
DIBUTYLTIN	0.020	ND
MONOBUTYLTIN	0.020	ND

DF = DILUTION FACTOR

ND = ANALYTE NOT DETECTED AT OR ABOVE THE INDICATED REPORTING LIMIT

REPORTING LIMITS AND RESULTS HAVE BEEN ADJUSTED ACCORDINGLY TO ACCOUNT FOR DILUTION FACTOR.

SURROGATE PARAMETER	ACCEPTABLE RANGE	% RECOVERY
TRIPROPYLTIN	39-139	97

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ANALYSIS RESULTS - ORGANOTIN SPECIES by GC-FPD

CLIENT: CALSCIENCE ENVIRONMENTAL LABORATORIES, INC.		DATE SAMPLED:	N/A
		DATE RECEIVED:	N/A
PROJECT NAME/No.: 00-03-1139, 00-03-138		DATE EXTRACTED:	04/12/00
PTAS LOG #: METHOD BLANK		DATE ANALYZED:	04/12/00
SAMPLE ID: N/A		MATRIX:	SOLID
DILUTION FACTOR: 1		SAMPLE VOL./WT.:	10 G

ANALYTE	REPORTING LIMIT PPB (UG/KG)	RESULTS PPB (UG/KG)
TRIBUTYLTIN	1.0	ND
DIBUTYLTIN	2.0	ND
MONOBUTYLTIN	2.0	ND

DF = DILUTION FACTOR

ND =ANALYTE NOT DETECTED AT OR ABOVE THE INDICATED REPORTING LIMIT

REPORTING LIMITS AND RESULTS HAVE BEEN ADJUSTED ACCORDINGLY TO ACCOUNT FOR DILUTION FACTOR.

SURROGATE PARAMETER	ACCEPTANCE CRITERIA	% RECOVERY
TRIPROPYLTIN	68-142	97

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ANALYSIS RESULTS - ORGANOTIN SPECIES by GC-FPD

CLIENT: CALSCIENCE ENVIRONMENTAL LABORATORIES, INC.		DATE SAMPLED:	03/30/00
		DATE RECEIVED:	04/04/00
PROJECT NAME/No.: 00-03-1139, 00-03-138		DATE EXTRACTED:	04/12/00
PTAS LOG #: 0797-00-1		DATE ANALYZED:	04/12/00
SAMPLE ID: VC00-A3-05-COMP		MATRIX:	SOLID
DILUTION FACTOR: 1		SAMPLE VOL./WT.:	10 G

ANALYTE	REPORTING LIMIT PPB (UG/KG)	RESULTS PPB (UG/KG)
TRIBUTYLTIN	1.0	ND
DIBUTYLTIN	2.0	ND
MONOBUTYLTIN	2.0	ND

DF = DILUTION FACTOR

ND =ANALYTE NOT DETECTED AT OR ABOVE THE INDICATED REPORTING LIMIT

REPORTING LIMITS AND RESULTS HAVE BEEN ADJUSTED ACCORDINGLY TO ACCOUNT FOR DILUTION FACTOR.

SURROGATE PARAMETER	ACCEPTANCE CRITERIA	% RECOVERY
TRIPROPYLTIN	68-142	91

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ANALYSIS RESULTS - ORGANOTIN SPECIES by GC-FPD

CLIENT: CALSCIENCE ENVIRONMENTAL LABORATORIES, INC.		DATE SAMPLED:	03/30/00
		DATE RECEIVED:	04/04/00
PROJECT NAME/No.: 00-03-1139, 00-03-138		DATE EXTRACTED:	04/12/00
PTAS LOG #: 0797-00-1 (DUPLICATE)		DATE ANALYZED:	04/12/00
SAMPLE ID: VC00-A3-05-COMP (DUPLICATE)		MATRIX:	SOLID
DILUTION FACTOR: 1		SAMPLE VOL./WT.:	10 G

ANALYTE	REPORTING LIMIT PPB (UG/KG)	RESULTS PPB (UG/KG)
TRIBUTYLTIN	1.0	ND
DIBUTYLTIN	2.0	ND
MONOBUTYLTIN	2.0	ND

DF = DILUTION FACTOR

ND =ANALYTE NOT DETECTED AT OR ABOVE THE INDICATED REPORTING LIMIT

REPORTING LIMITS AND RESULTS HAVE BEEN ADJUSTED ACCORDINGLY TO ACCOUNT FOR DILUTION FACTOR.

SURROGATE PARAMETER	ACCEPTANCE CRITERIA	% RECOVERY
TRIPROPYLTIN	68-142	74

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ANALYSIS RESULTS - ORGANOTIN SPECIES by GC-FPD

CLIENT: CALSCIENCE ENVIRONMENTAL LABORATORIES, INC.		DATE SAMPLED:	03/30/00
		DATE RECEIVED:	04/04/00
PROJECT NAME/No.: 00-03-1139, 00-03-138		DATE EXTRACTED:	04/12/00
PTAS LOG #: 0797-00-2		DATE ANALYZED:	04/12/00
SAMPLE ID: VC00-A3-05-COMP REP		MATRIX:	SOLID
DILUTION FACTOR: 1		SAMPLE VOL./WT.:	10 G

ANALYTE	REPORTING LIMIT PPB (UG/KG)	RESULTS PPB (UG/KG)
TRIBUTYLTIN	1.0	ND
DIBUTYLTIN	2.0	ND
MONOBUTYLTIN	2.0	ND

DF = DILUTION FACTOR

ND =ANALYTE NOT DETECTED AT OR ABOVE THE INDICATED REPORTING LIMIT

REPORTING LIMITS AND RESULTS HAVE BEEN ADJUSTED ACCORDINGLY TO ACCOUNT FOR DILUTION FACTOR.

SURROGATE PARAMETER	ACCEPTANCE CRITERIA	% RECOVERY
TRIPROPYLTIN	68-142	95

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ANALYSIS RESULTS - ORGANOTIN SPECIES by GC-FPD

CLIENT: CALSCIENCE ENVIRONMENTAL LABORATORIES, INC.		DATE SAMPLED:	03/30/00
		DATE RECEIVED:	04/04/00
PROJECT NAME/No.: 00-03-1139, 00-03-138		DATE EXTRACTED:	04/12/00
PTAS LOG #: 0797-00-3		DATE ANALYZED:	04/12/00
SAMPLE ID: VC00-A3-07-COMP		MATRIX:	SOLID
DILUTION FACTOR: 1		SAMPLE VOL./WT.:	10 G

ANALYTE	REPORTING LIMIT PPB (UG/KG)	RESULTS PPB (UG/KG)
TRIBUTYLTIN	1.0	ND
DIBUTYLTIN	2.0	ND
MONOBUTYLTIN	2.0	ND

DF = DILUTION FACTOR

ND =ANALYTE NOT DETECTED AT OR ABOVE THE INDICATED REPORTING LIMIT

REPORTING LIMITS AND RESULTS HAVE BEEN ADJUSTED ACCORDINGLY TO ACCOUNT FOR DILUTION FACTOR.

SURROGATE PARAMETER	ACCEPTANCE CRITERIA	% RECOVERY
TRIPROPYLTIN	68-142	100

Pacific Treatment Analytical Services, Inc. 4340 Viewridge Ave., Suite A • San Diego, CA 92123 (858) 560-7717 FAX (858) 560-7763

QA/QC REPORT					
METHOD: ORGANOTIN SPECIES BY GC-FPD-WATER **DATE ANALYZED:** 04/10/00 **QA/QC SAMPLE:** PTAS 0797-00 BLANK				**ACCEPTABLE LCS/LCSD CRITERIA**	**ACCEPTABLE RPD CRITERIA**
SPIKED ANALYTE	**LCS % R**	**LCSD % R**	**RPD**	**%**	**%**
TRIBUTYLTIN	96	101	5	61-143	< 30
DIBUTYLTIN	63	78	21	D-163	< 30
MONOBUTYLTIN	6.0	18.5	102	D-16	< 30*

LCS % R = LABORATORY CONTROL SAMPLE PERCENT RECOVERY

LCSD % R = LABORATORY CONTROL SAMPLE DUPLICATE PERCENT RECOVERY

RPD = RELATIVE PERCENT DIFFERENCE

D = DETECTION LIMIT

* NOTE: DUE TO LOW % RECOVERY ACCEPTANCE CRITERIA, THIS RPD VALUE IS FREQUENTLY EXCEEDED. ALL OTHER QC DATA INDICATES METHOD IS IN CONTROL.

Pacific Treatment Analytical Services, Inc. 4340 Viewridge Ave., Suite A • San Diego, CA 92123 (858) 560-7717 FAX (858) 560-7763

QA/QC REPORT						
METHOD:	**ORGANOTIN SPECIES BY GC-FPD-SOLID**				**ACCEPTABLE LCS,MS/MSD CRITERIA**	**ACCEPTABLE RPD CRITERIA**
DATE ANALYZED:	04/12/00					
QA/QC SAMPLE:	PTAS 0797-00-2					
SPIKED ANALYTE	**LCS % R**	**MS % R**	**MSD % R**	**RPD**	**%**	**%**
TRIBUTYLTIN	91	85	86	1	35-142	< 30
DIBUTYLTIN	95	77	73	5	D-161	< 30
MONOBUTYLTIN	5.2	1.5	1.5	0	D-75	< 30

LCS % R = LABORATORY CONTROL SAMPLE PERCENT RECOVERY

MS % R = MATRIX SPIKE PERCENT RECOVERY

MSD % R = MATRIX SPIKE DUPLICATE PERCENT RECOVERY

RPD = RELATIVE PERCENT DIFFERENCE

D = DETECTION LIMIT

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CALSCIENCE ENVIRONMENTAL LABORATORIES, INC.
7440 LINCOLN WAY
GARDEN GROVE, CA 92841-1432
TEL: (714) 895-5494 • FAX: (714) 894-7501

To: Pacific Treatment Analytical Services
PTAS# 0797-00

CHAIN OF CUSTODY RECORD

Date 4-4-00

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LABORATORY CLIENT:

ADDRESS:

CITY STATE ZIP

TEL: FAX: E-MAIL:

CLIENT PROJECT NAME / NUMBER: 00-03-1139, 00-03-1138

PROJECT CONTACT: Bob Stearns

SAMPLER(S): (SIGNATURE)

P.O. NO.:

QUOTE NO.:

LAB USE ONLY ☐☐-☐☐☐☐

TURNAROUND TIME
☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☐ 5 DAYS ☐ 10 DAYS

SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY)
☐ RWQCB REPORTING ☐ ARCHIVE SAMPLES UNTIL ___ / ___ / ___.

SPECIAL INSTRUCTIONS
Normal TAT

REQUESTED ANALYSES

LAB USE ONLY	SAMPLE ID	LOCATION/DESCRIPTION	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	TPH (G)	TPH (D) (O)	BTEX / MTBE (8021B)	HALOCARBONS (8021B)	VOCs (8260B)	SVOCs (8270C)	PEST (8081A)	PCBs (8082)	EDB / DBCP (504.1) or (8011)	CAC, T22 METALS (6010B)	ICP/MS METALS (6020)	PNAs (8310)	VOCs (TO-14A) or (TO-15)	CH_4 / TGNMO (25.1)	FIXED GASES (25.1) or (D1946)	Organotin				
	[illegible]	[illegible] Comp	3/30/00		S	1																X				
	[illegible]	[illegible] Comp Rep	"		S	1																				
	[illegible]	[illegible] Comp	"		S	1																				
	[illegible]	[illegible] PB1	"		W	1																				

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
[signature]	[signature]	4-4-00	0900
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received for Laboratory by: (Signature)	Date: 4/4/00	Time: 1125

DISTRIBUTION: White with final report, Green to File, Yellow and Pink to Client.
Please note that pages 1 and 2 of 2 of our T/Cs are printed on the reverse side of the Yellow and Pink copies respectively.

02/01/99 Revision

O&O Graphic (714) 898-0700

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APPENDIX F

PHOTOGRAPHS

NOTE: Photographs scanned and labeled by the Geotechnical Branch, Los Angeles District, US Army Corps of Engineers.

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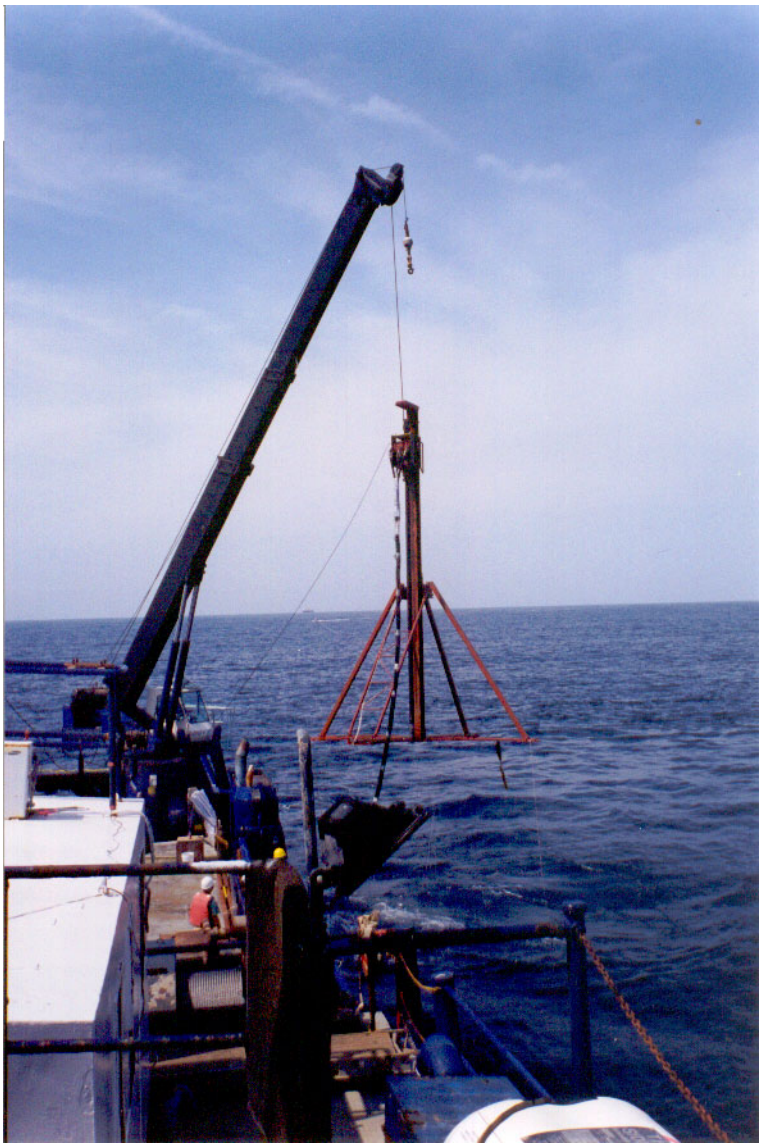

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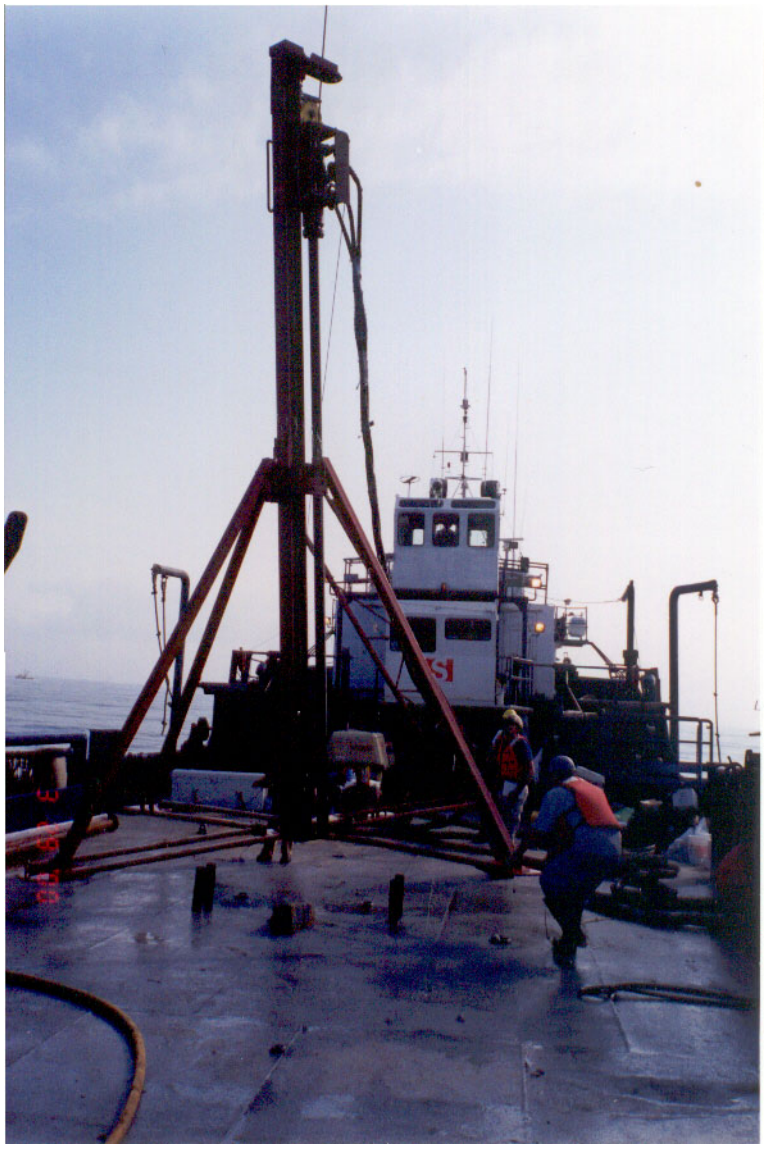

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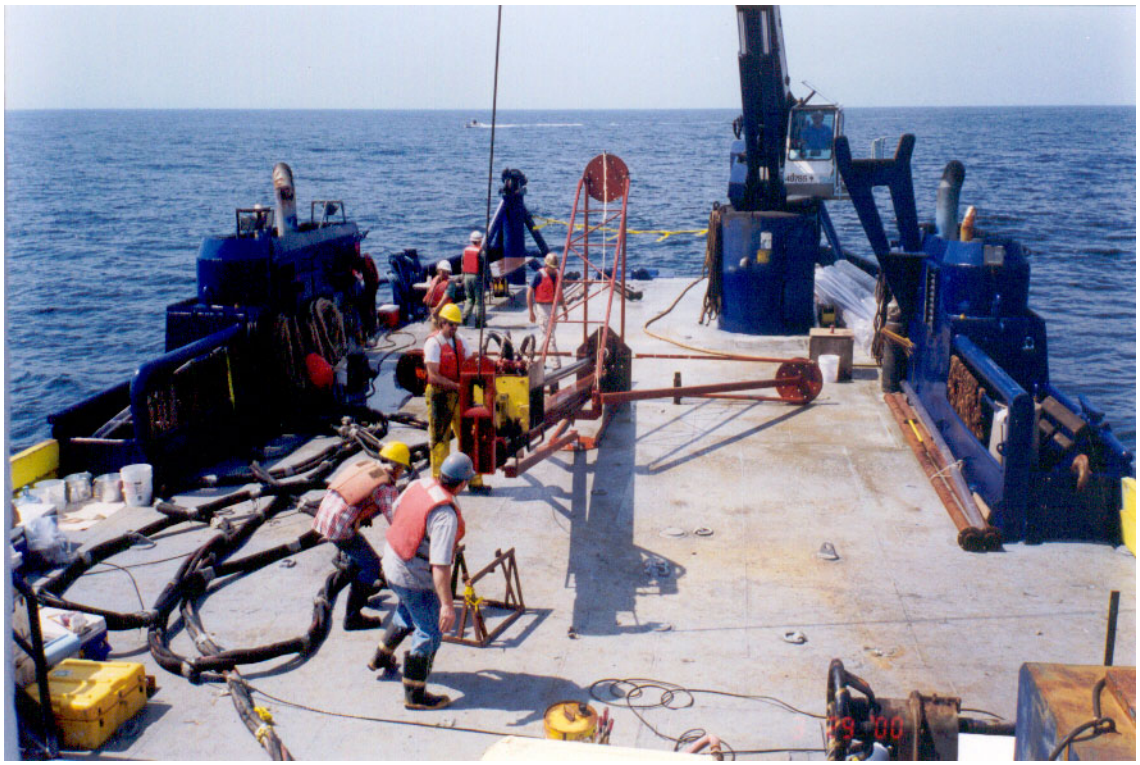

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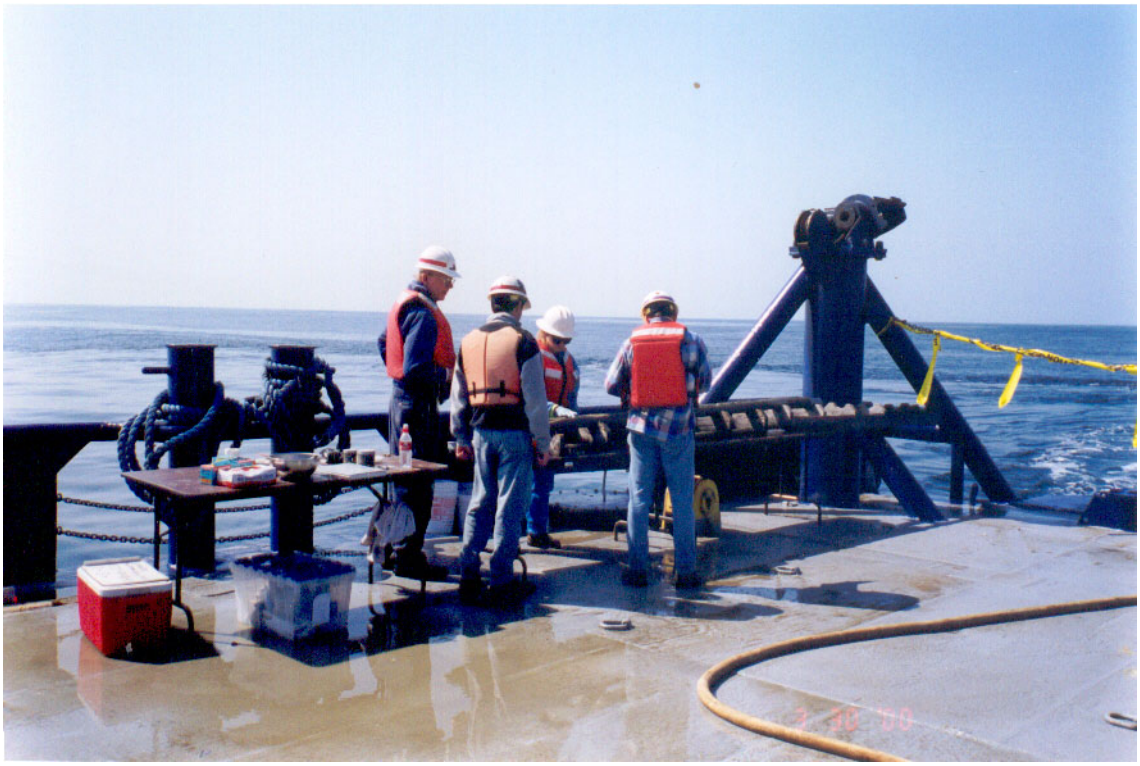

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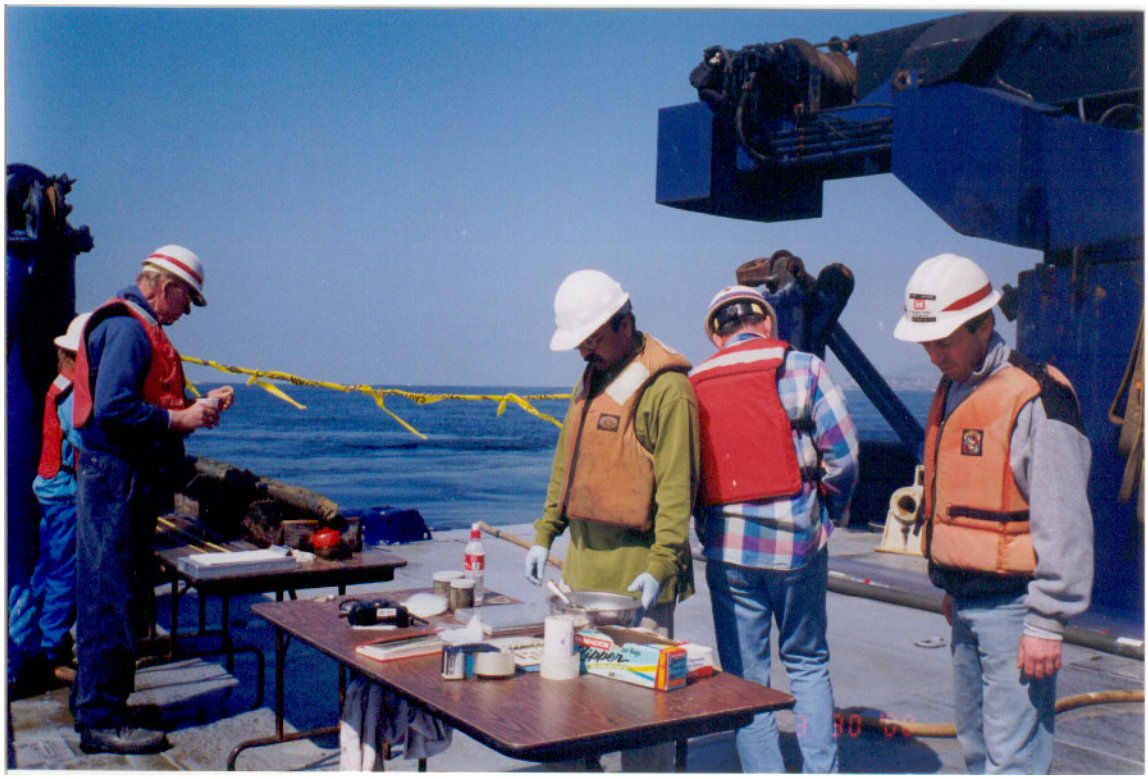

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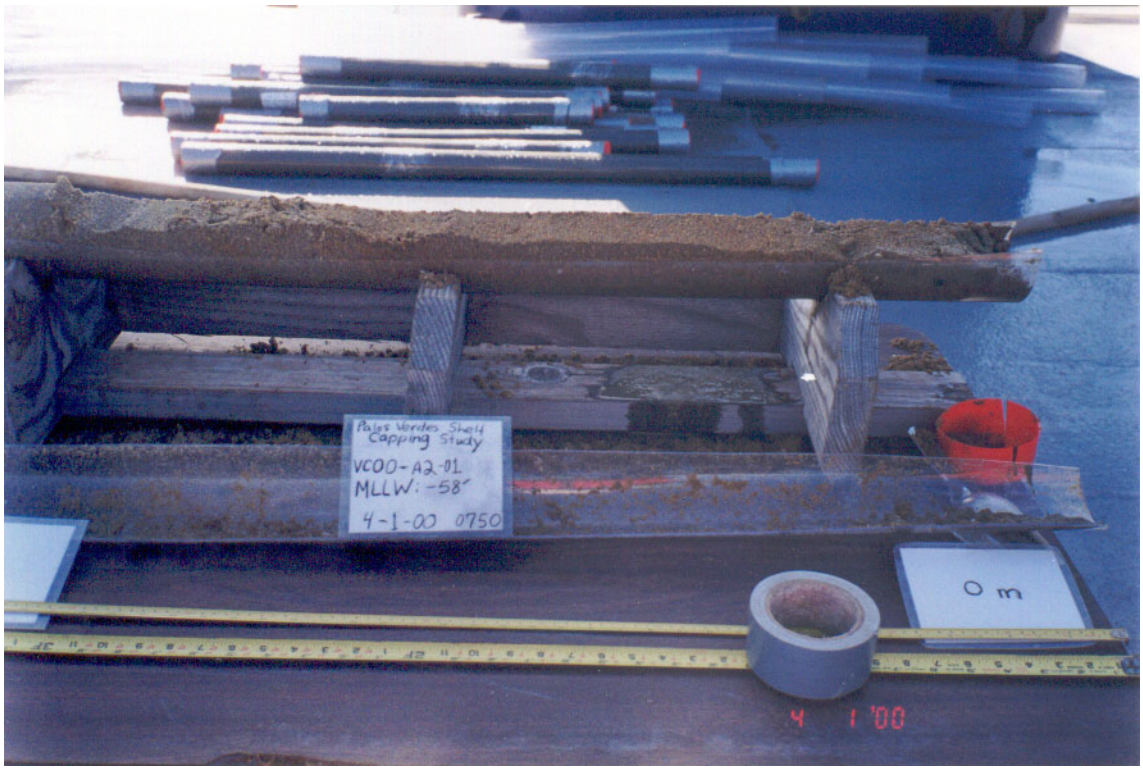

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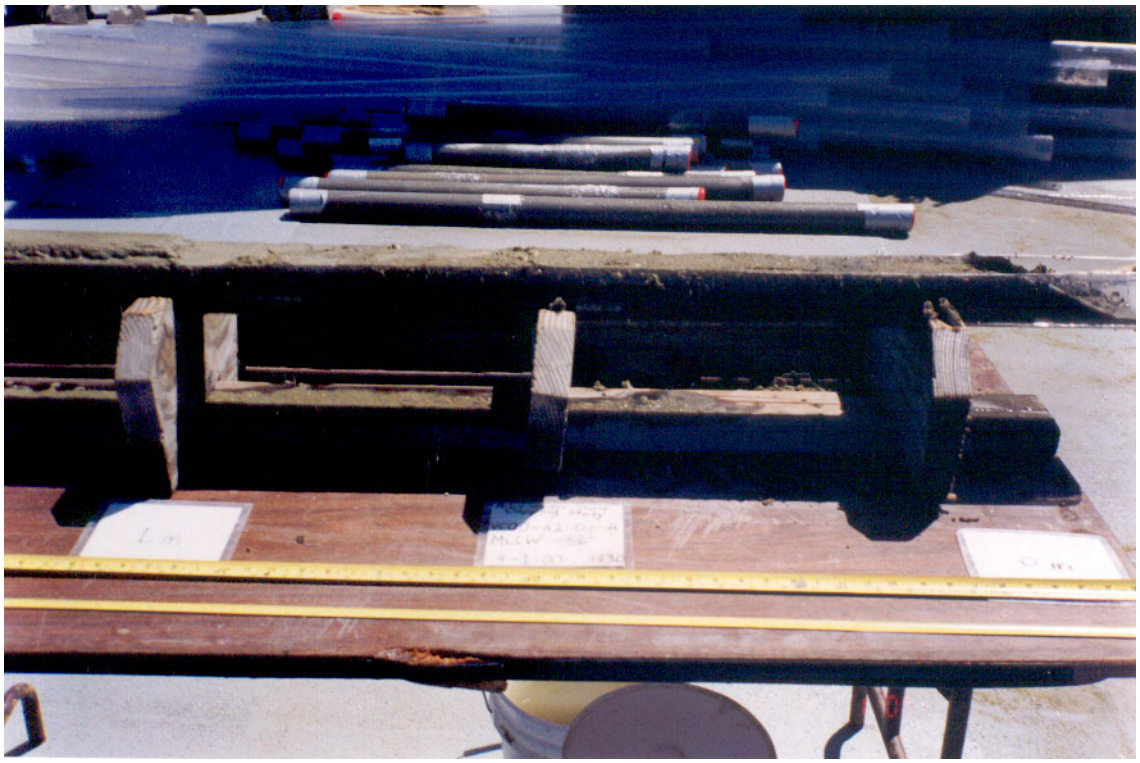

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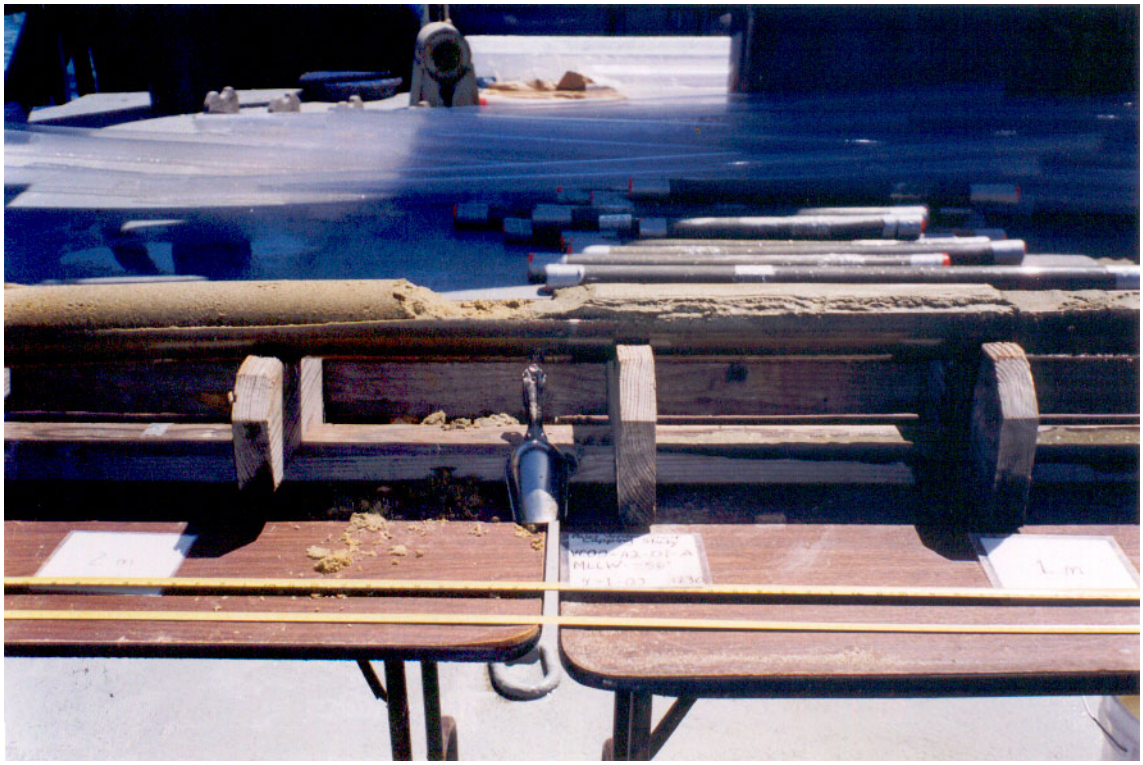

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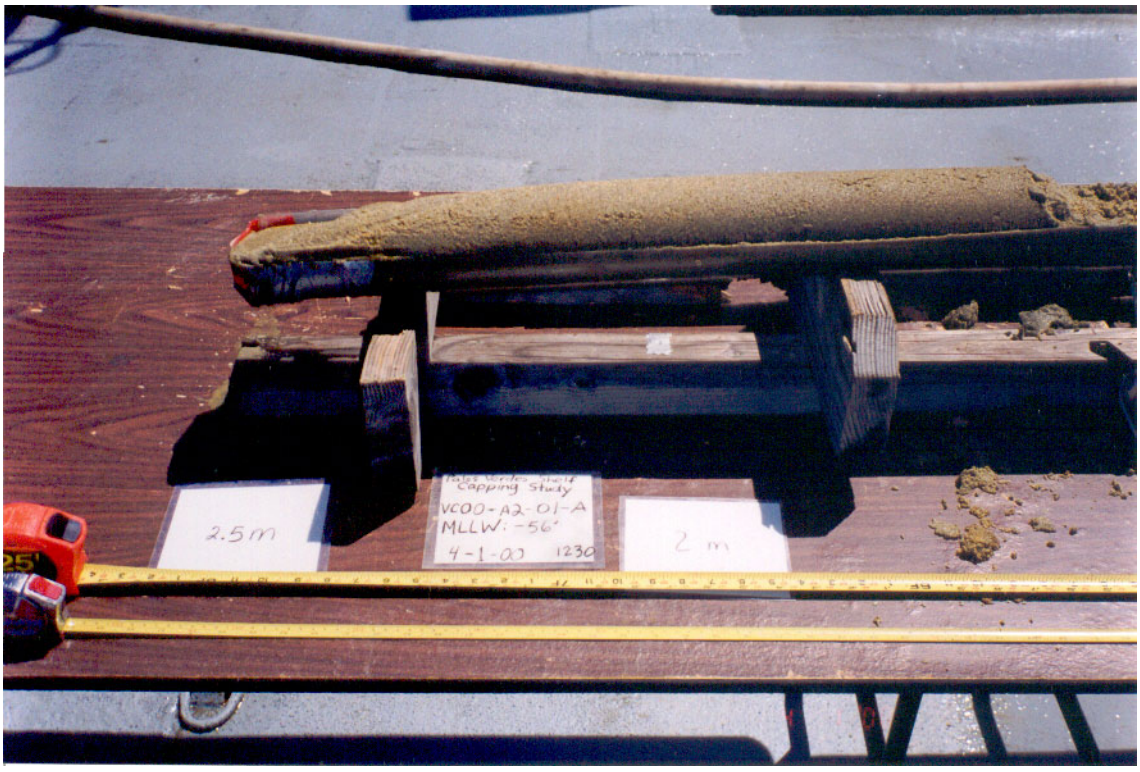

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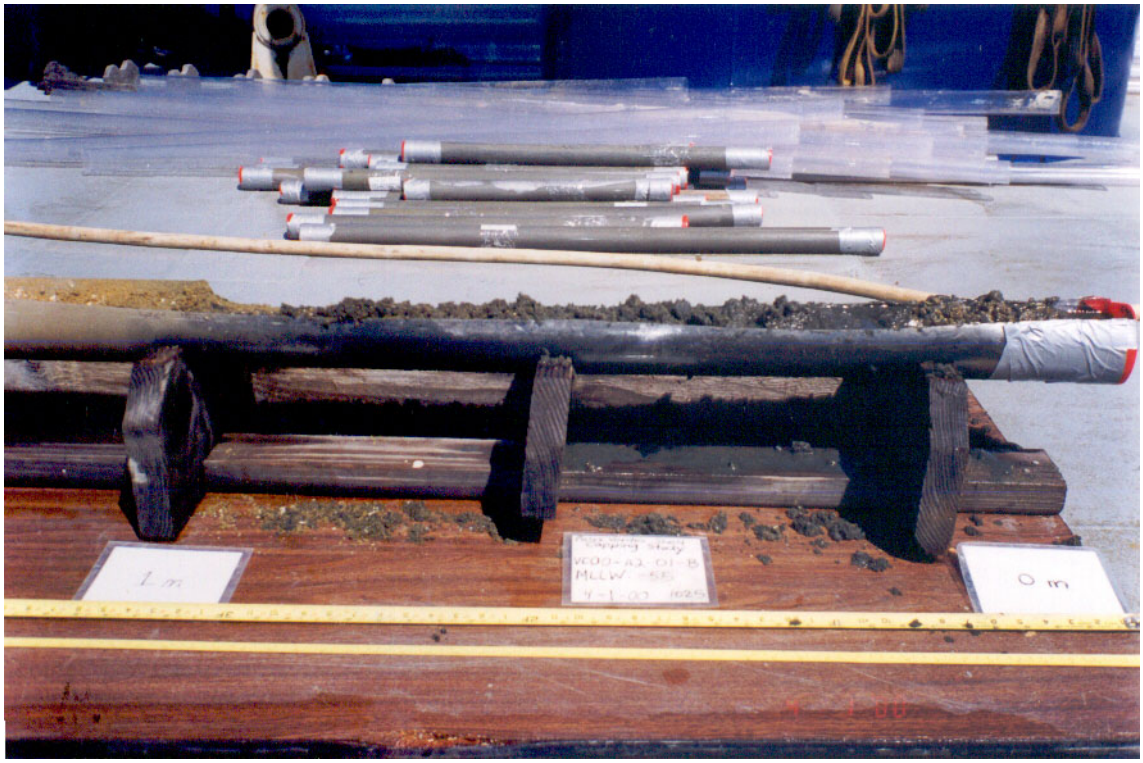

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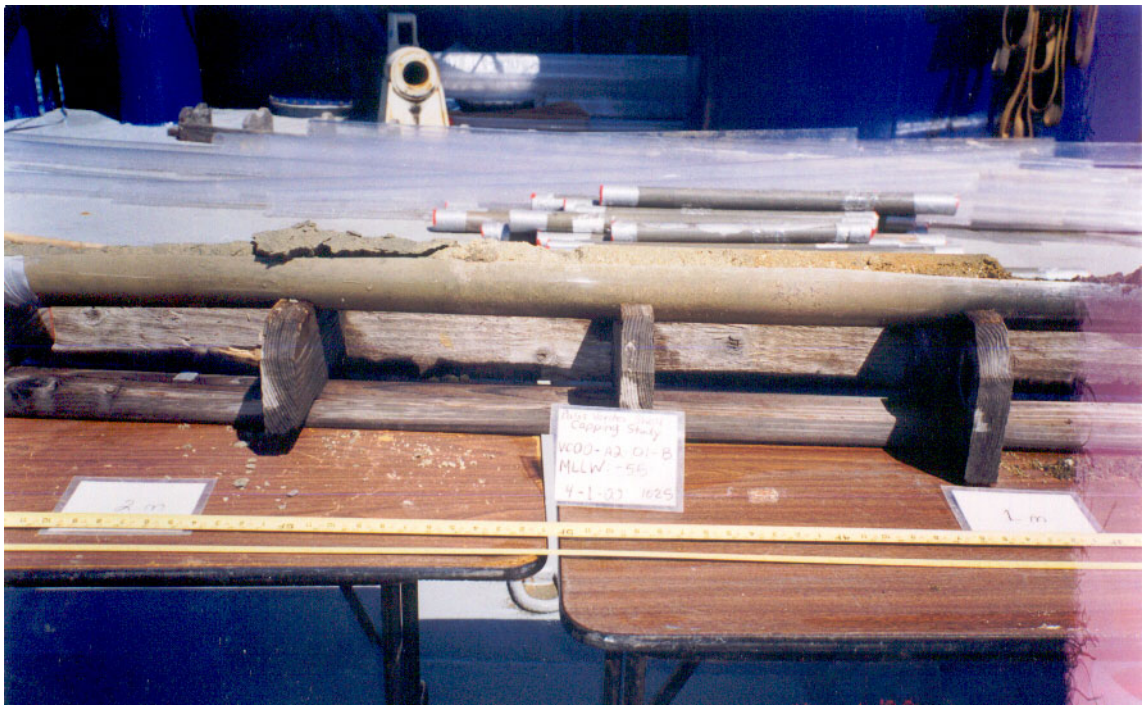

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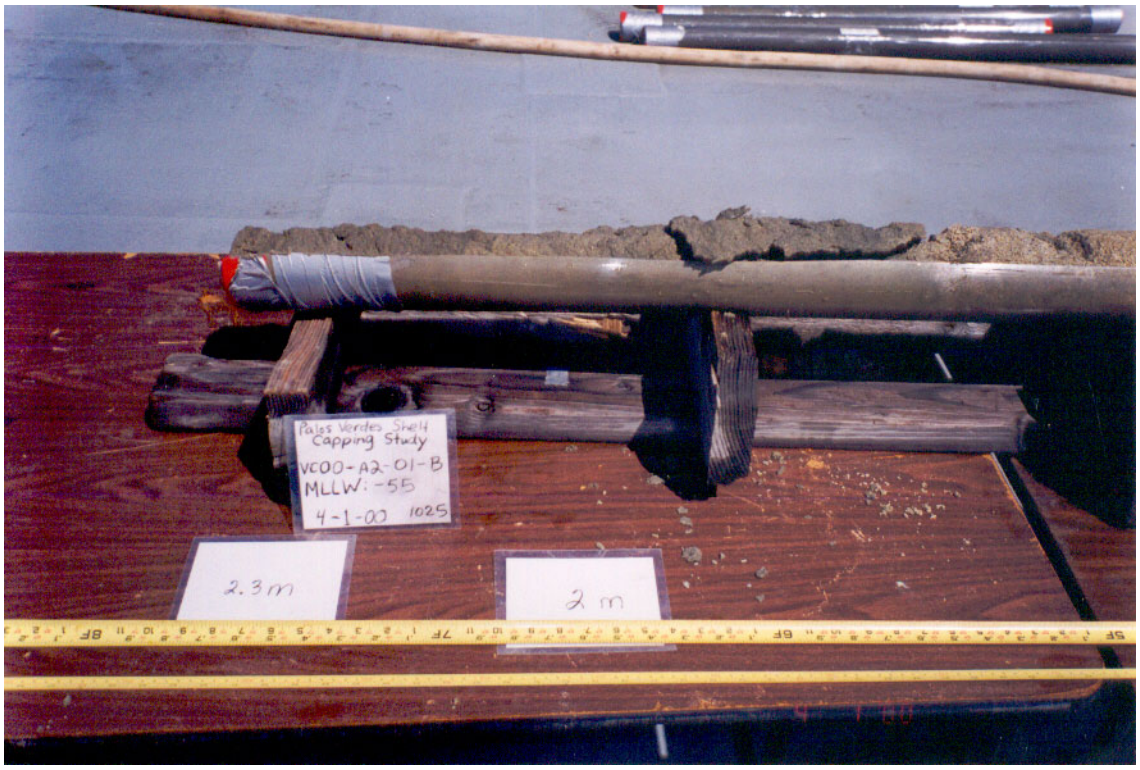

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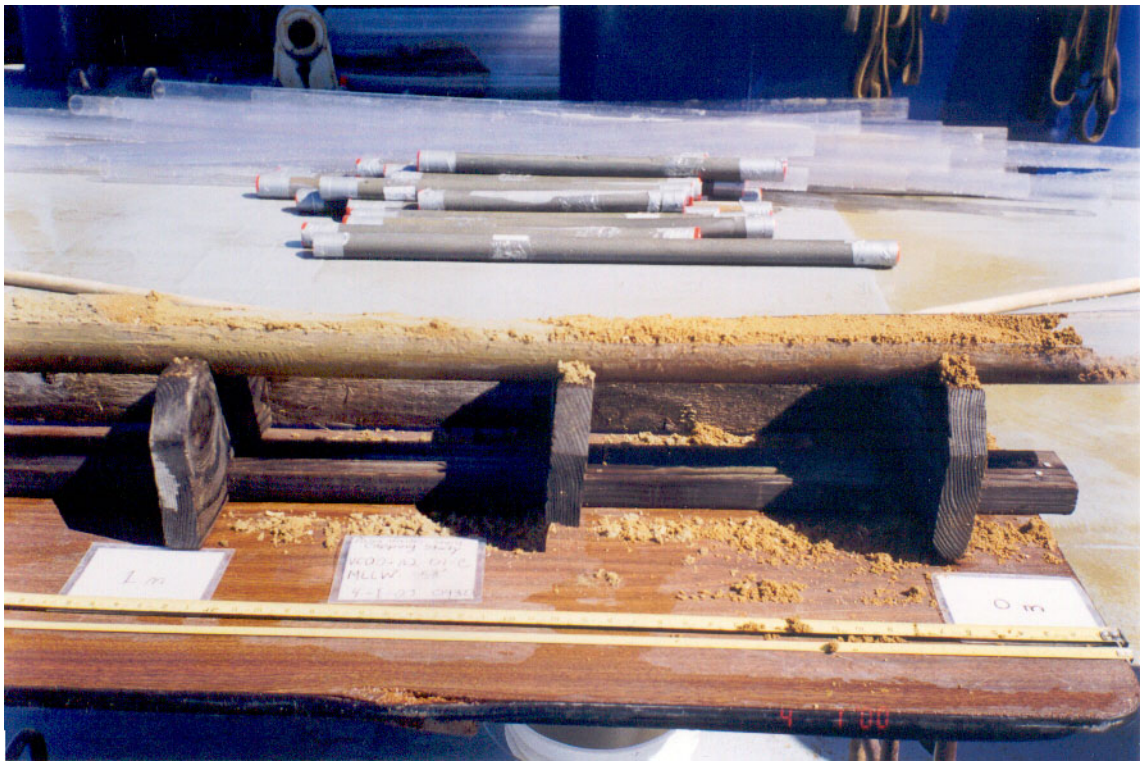

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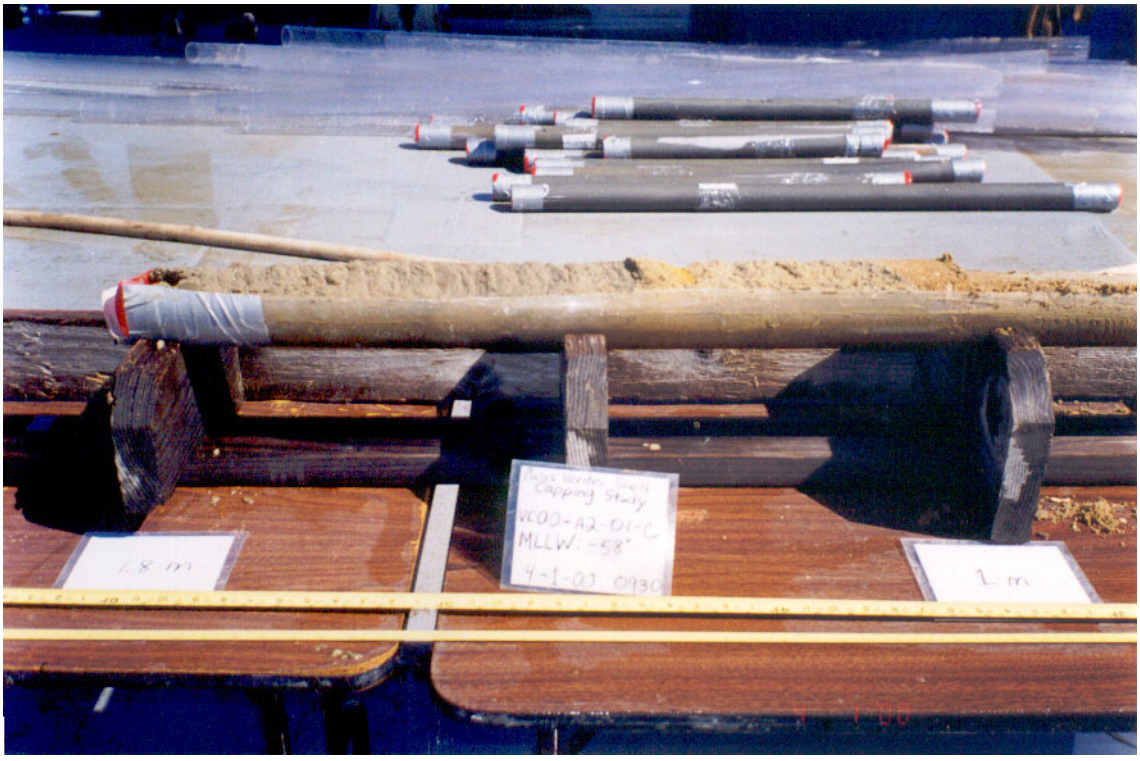

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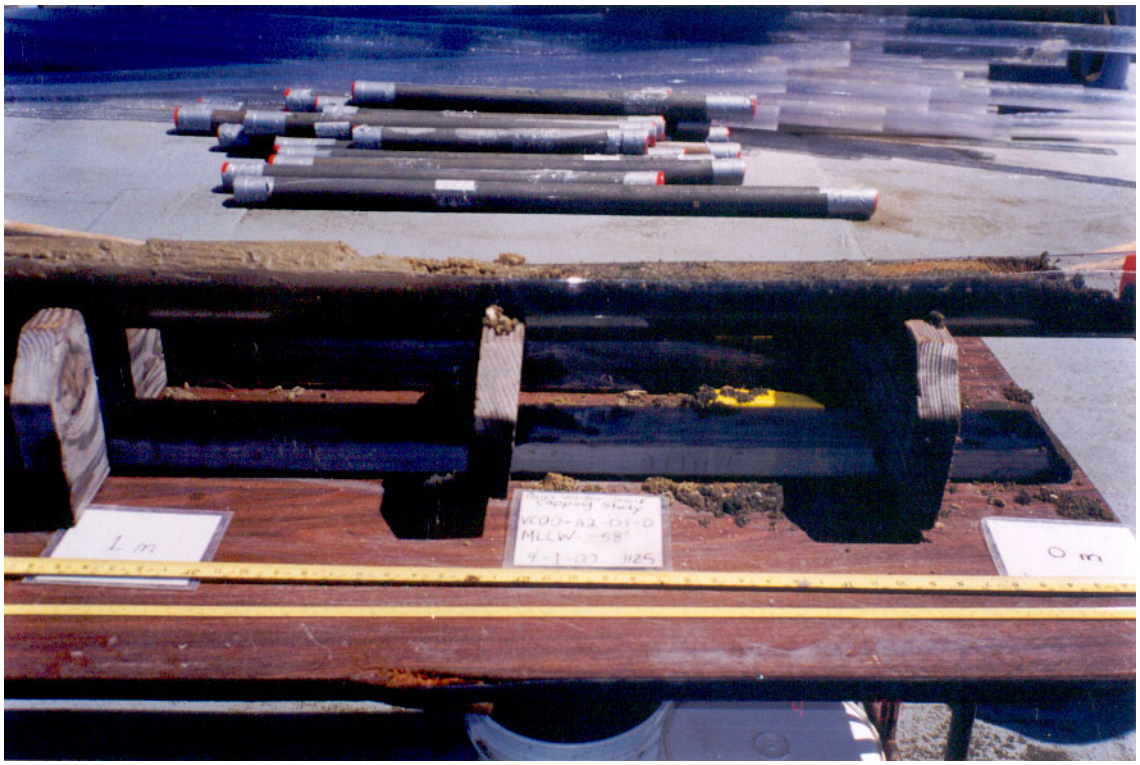

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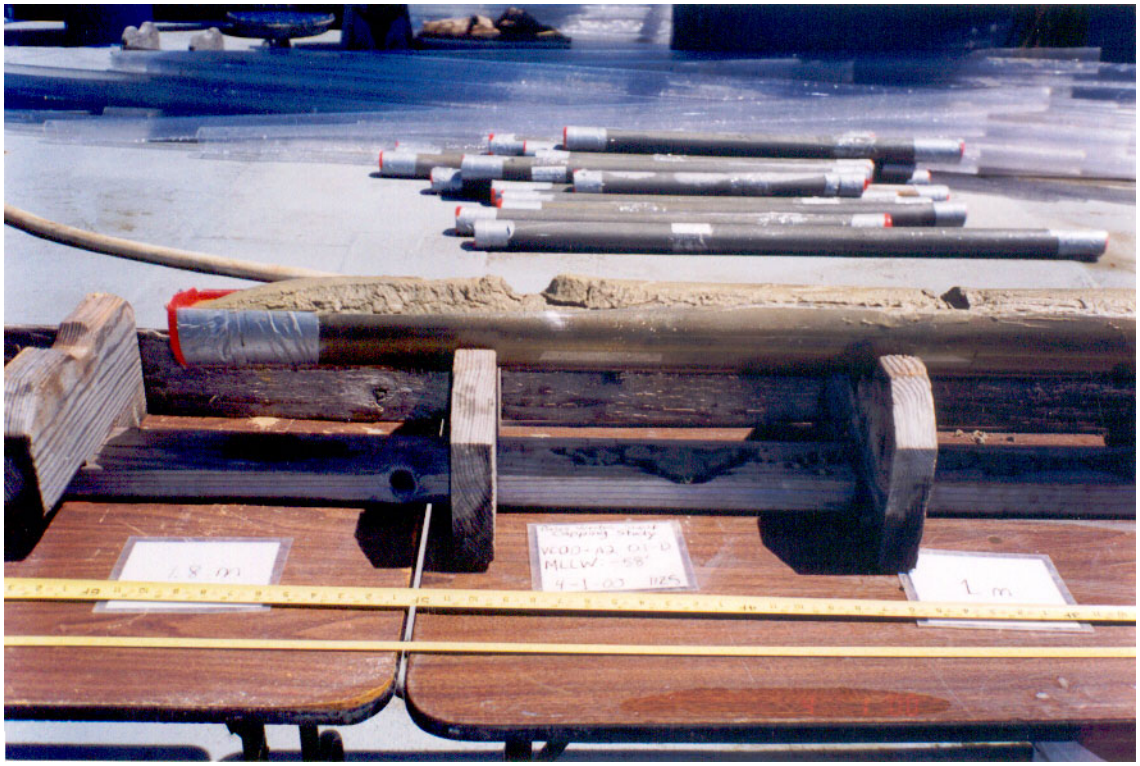

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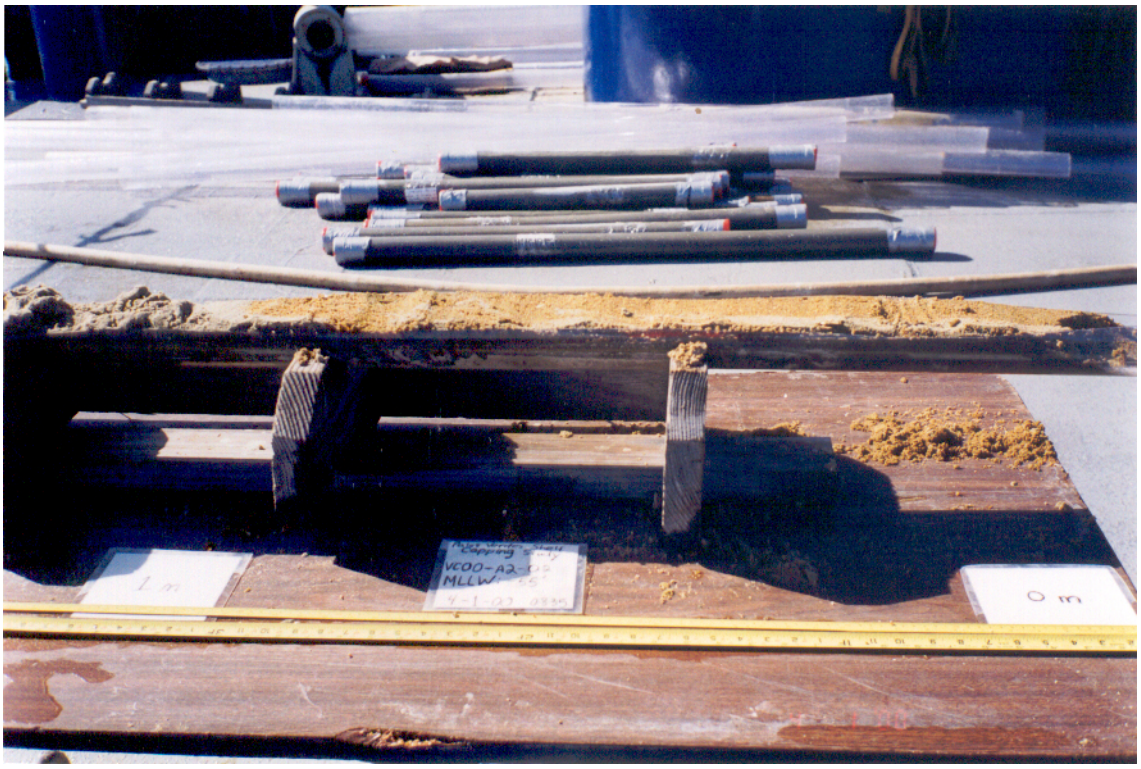

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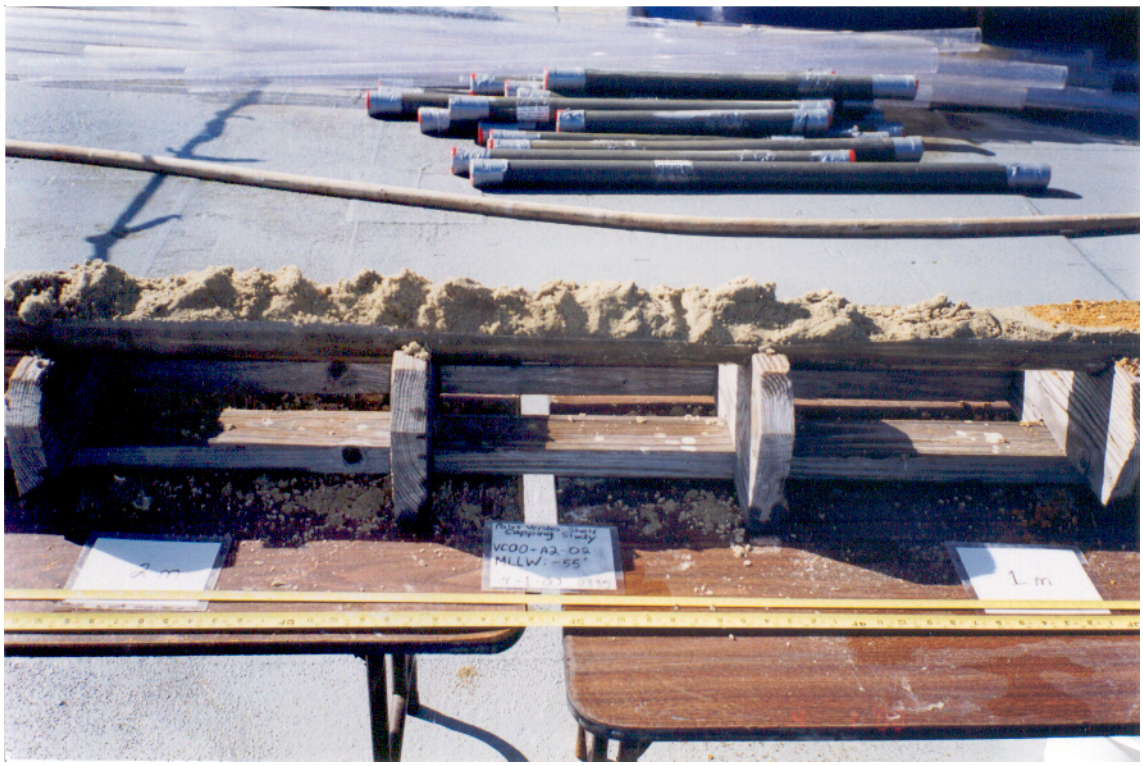

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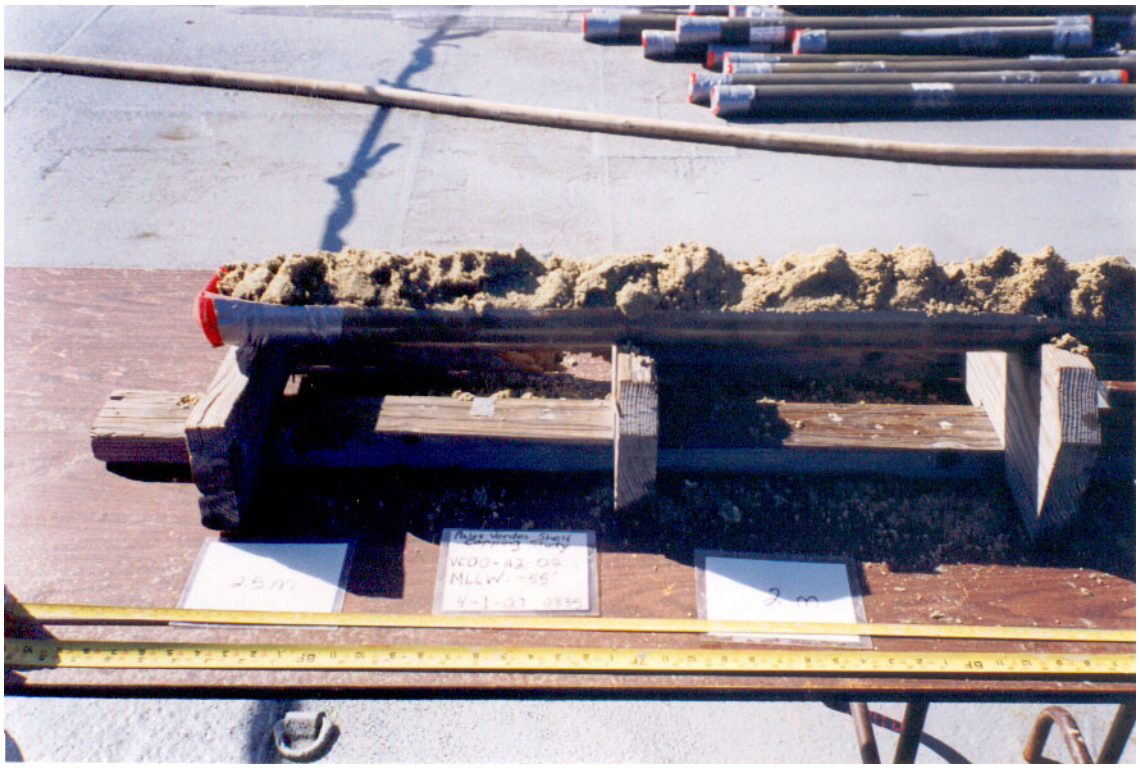

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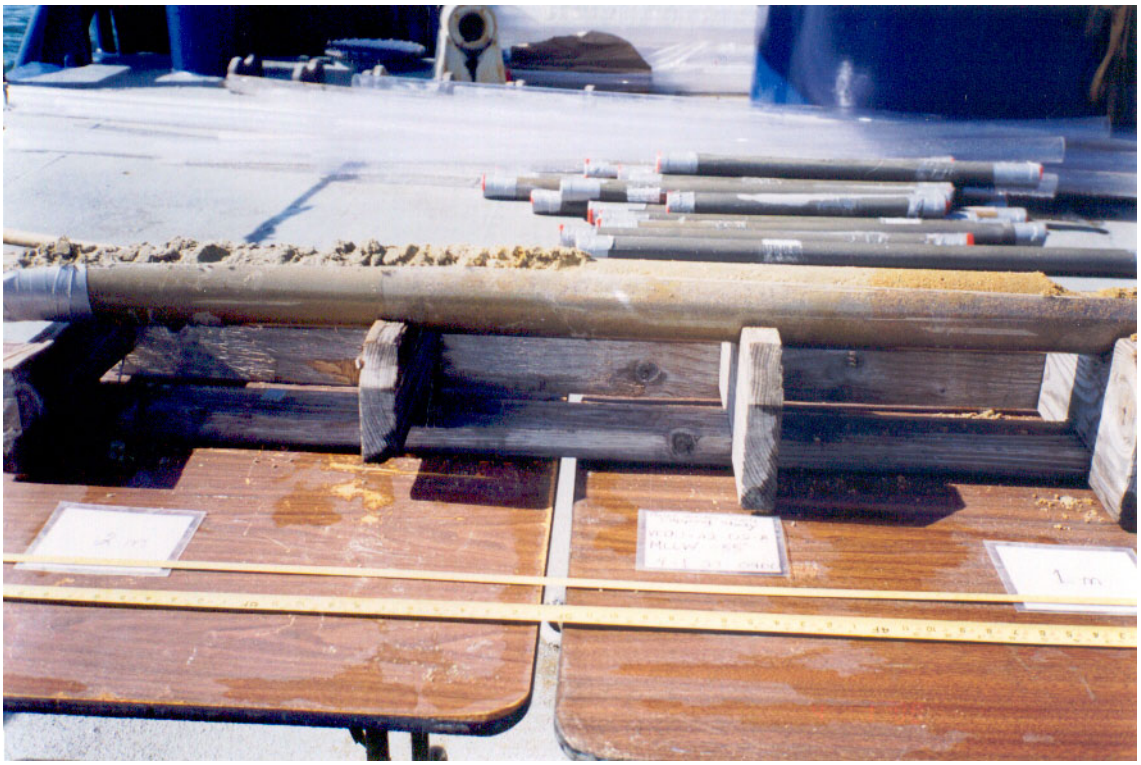

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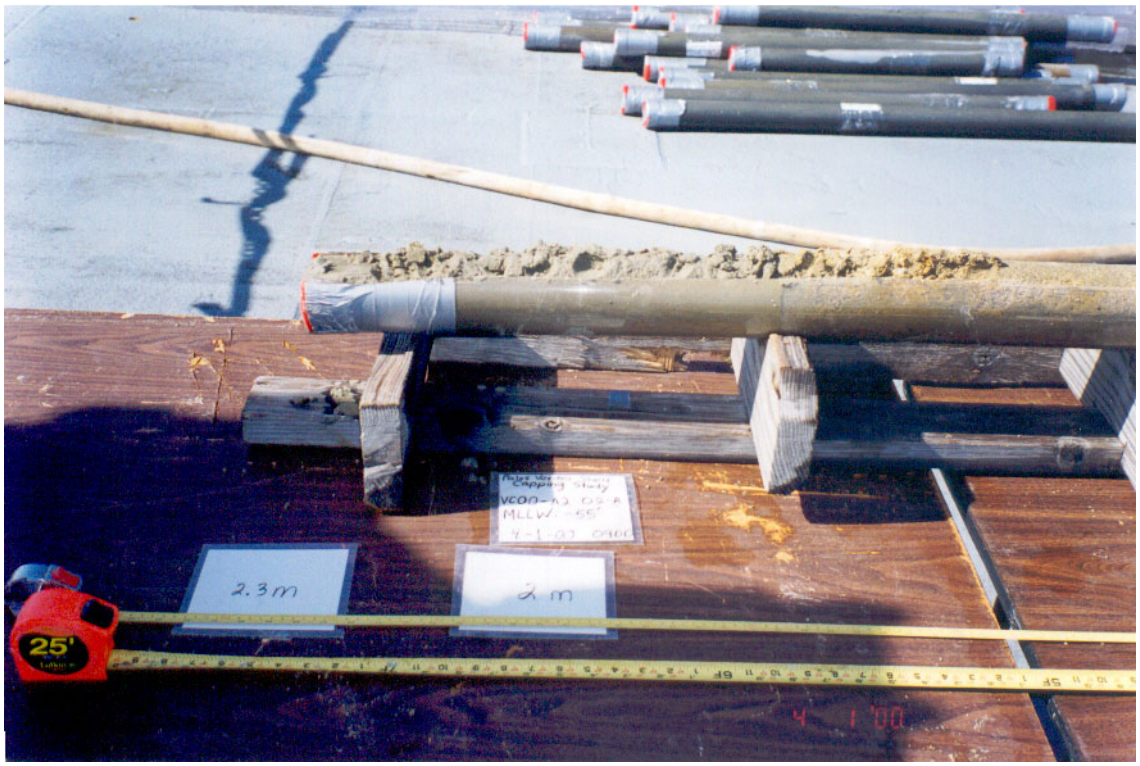

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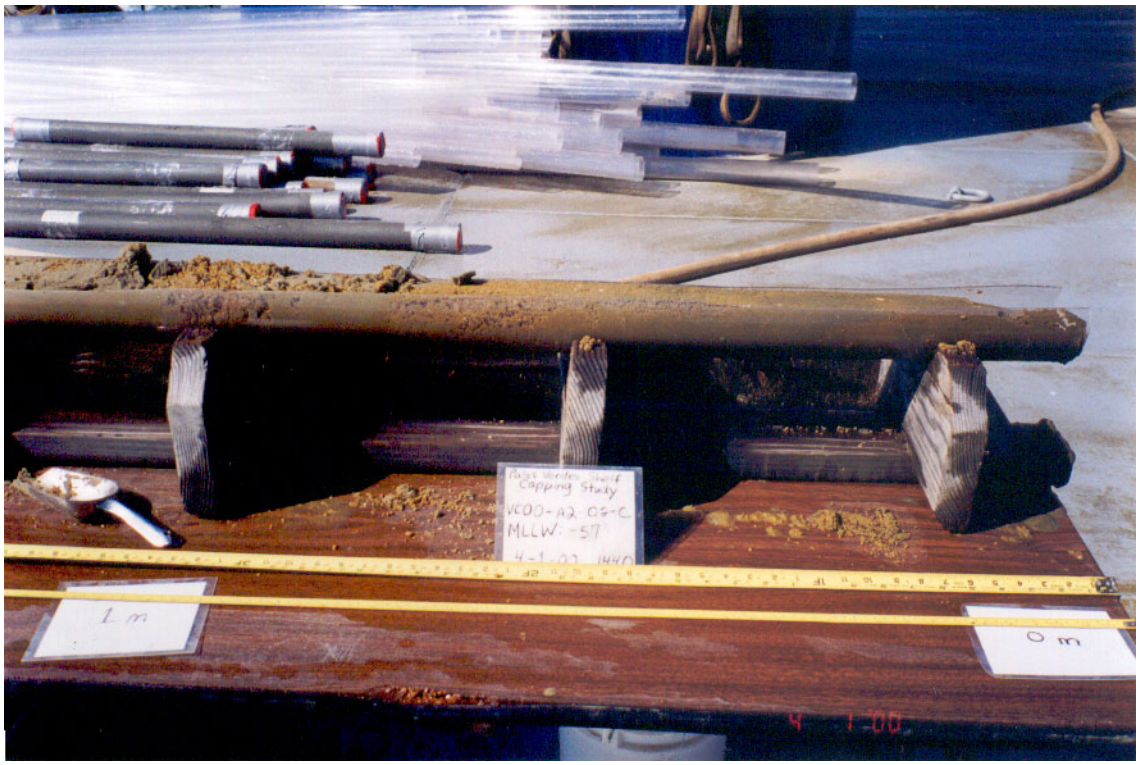

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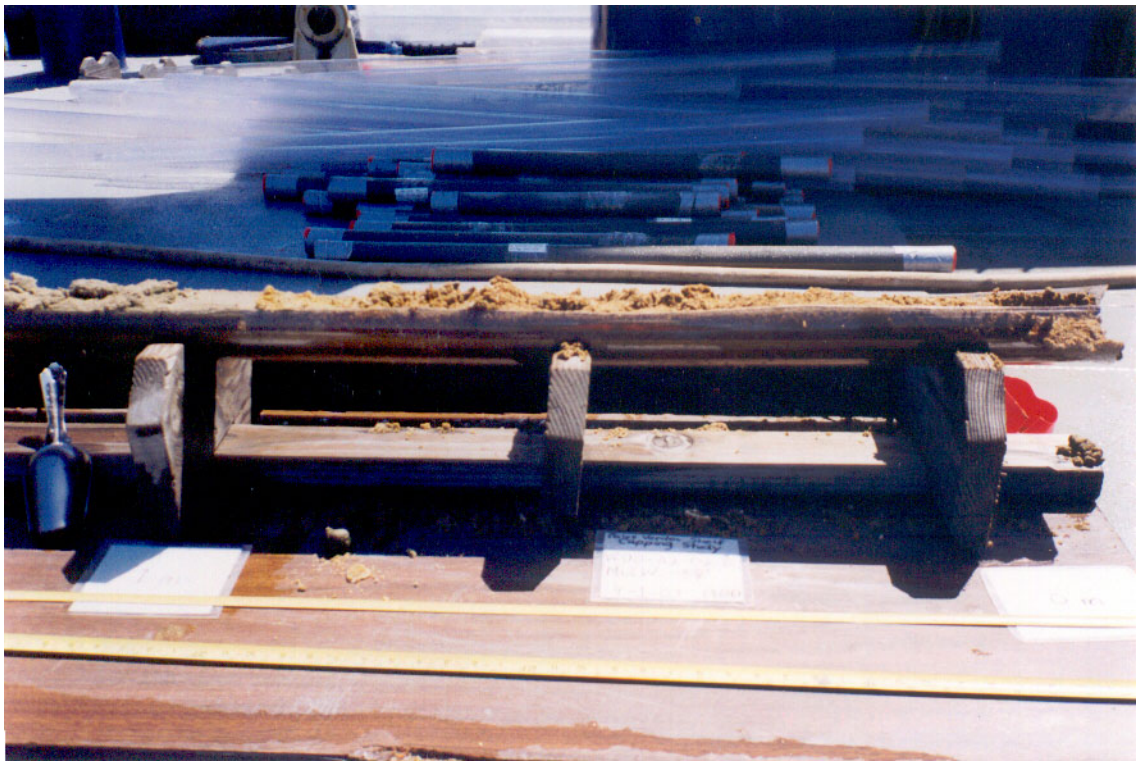

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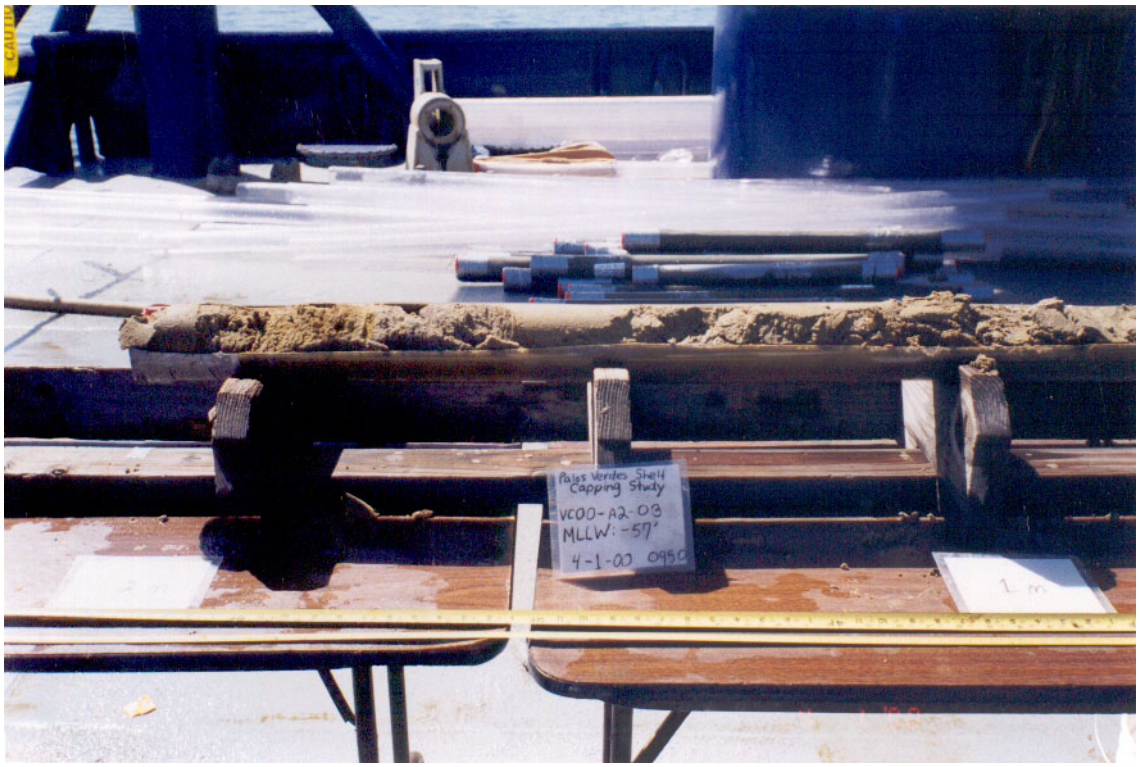

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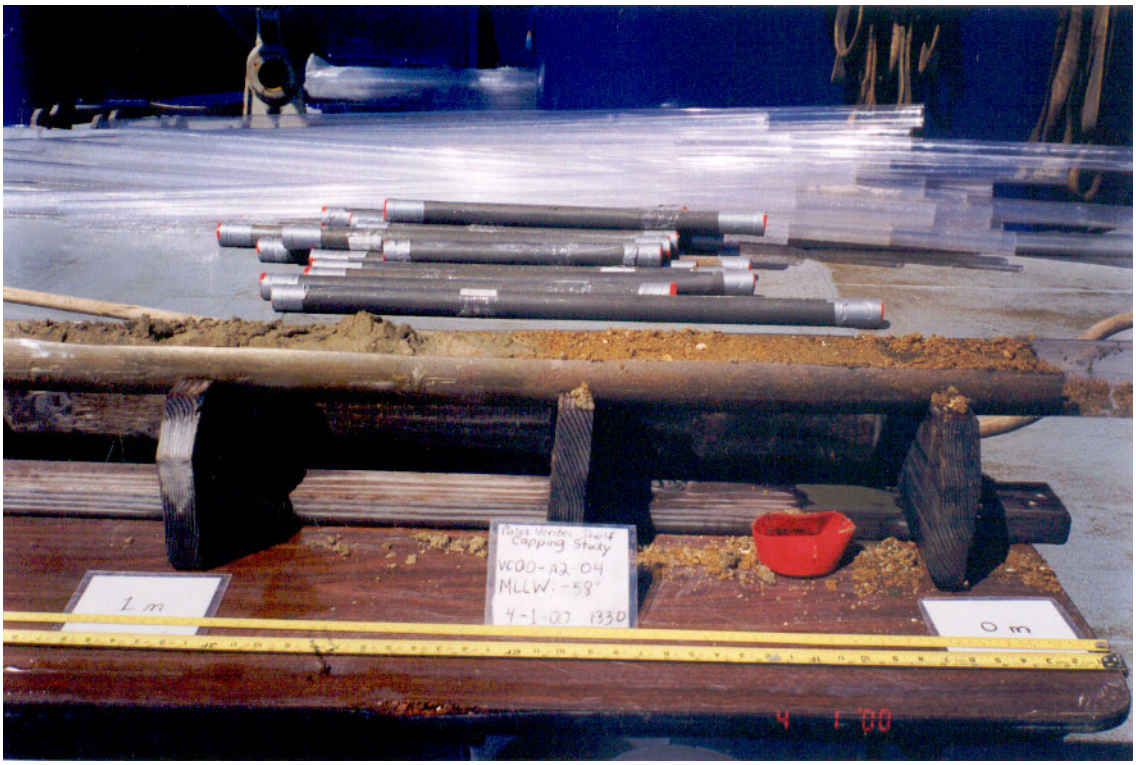

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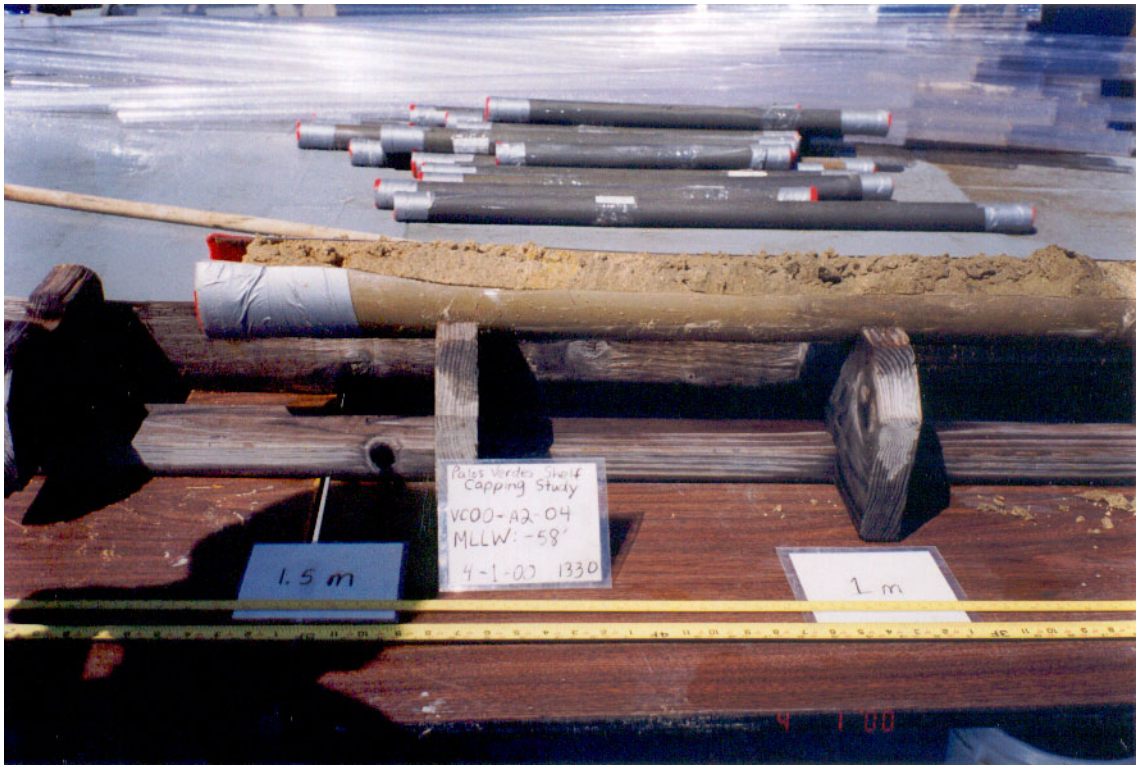

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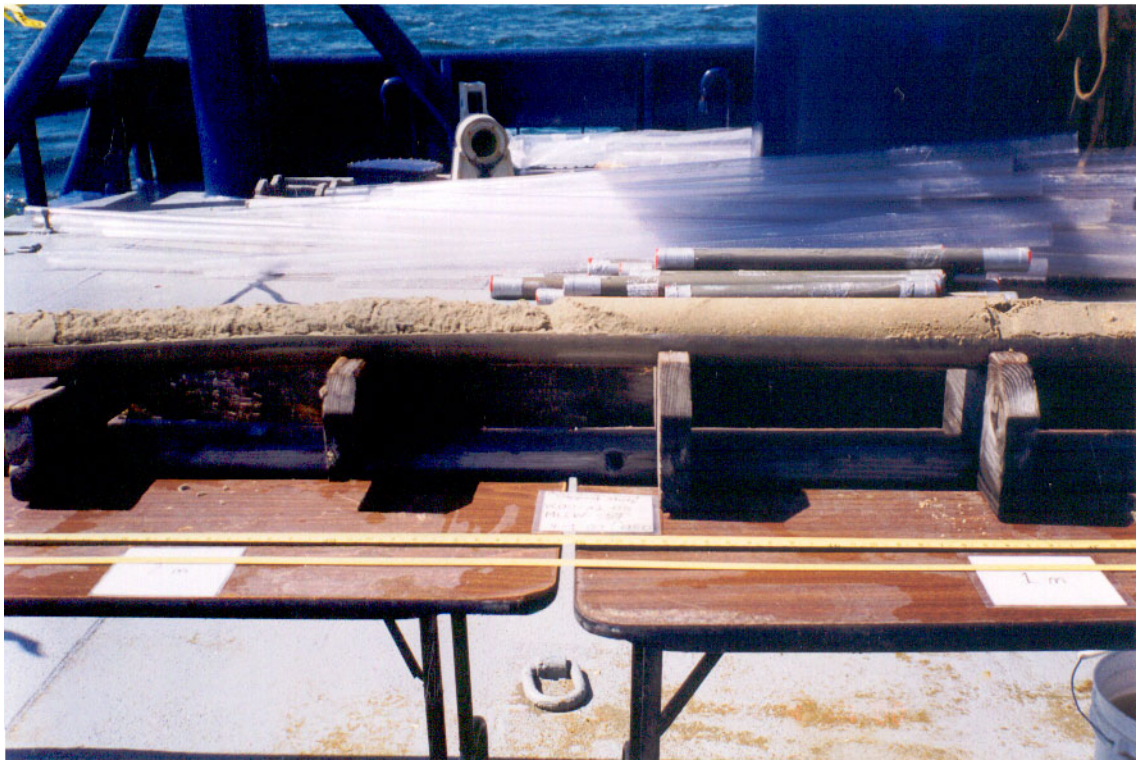

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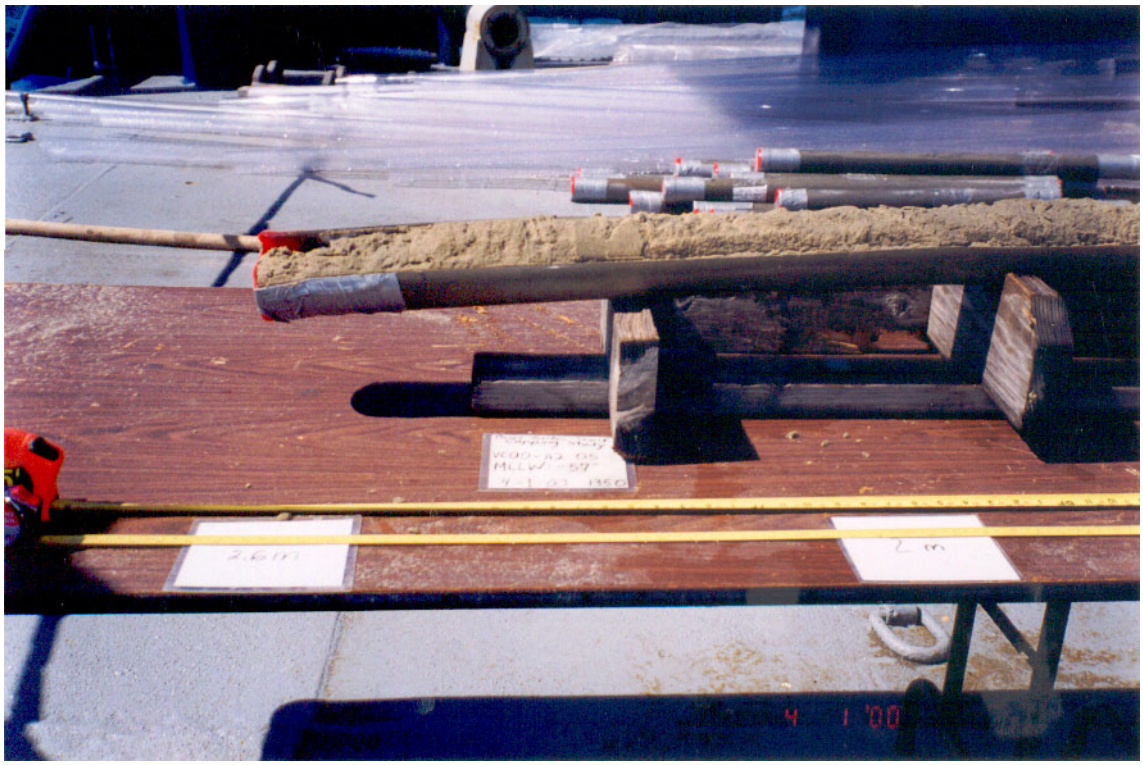

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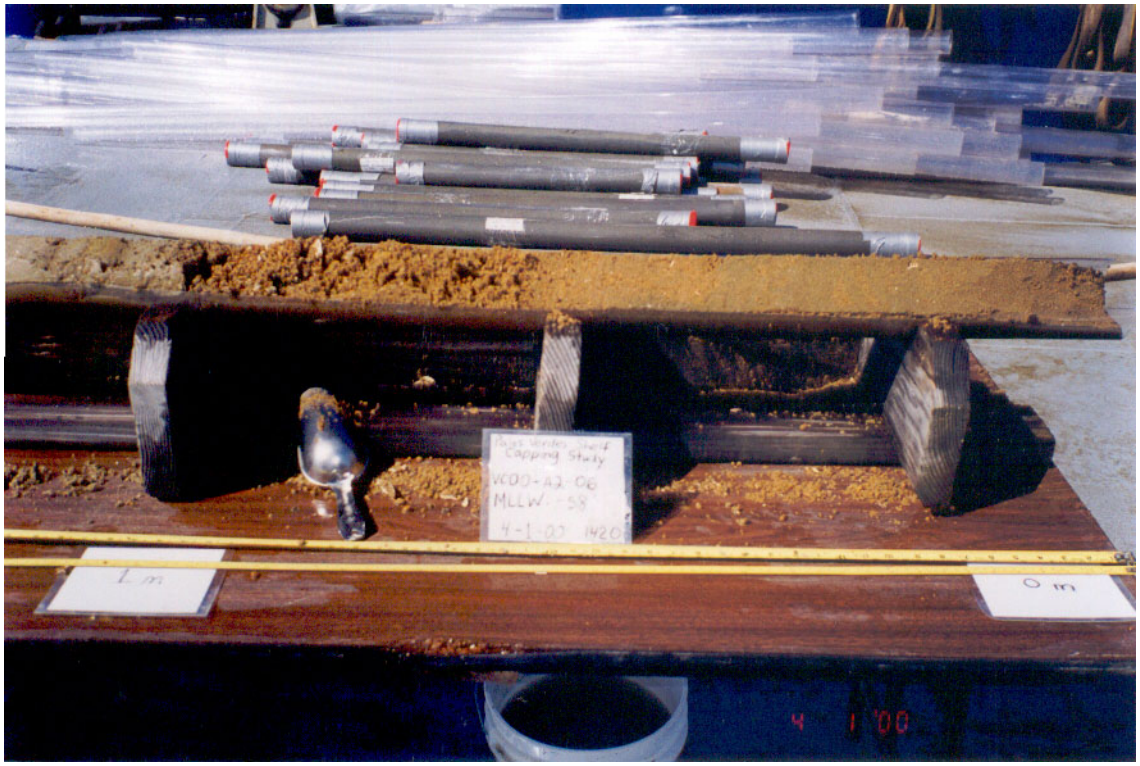

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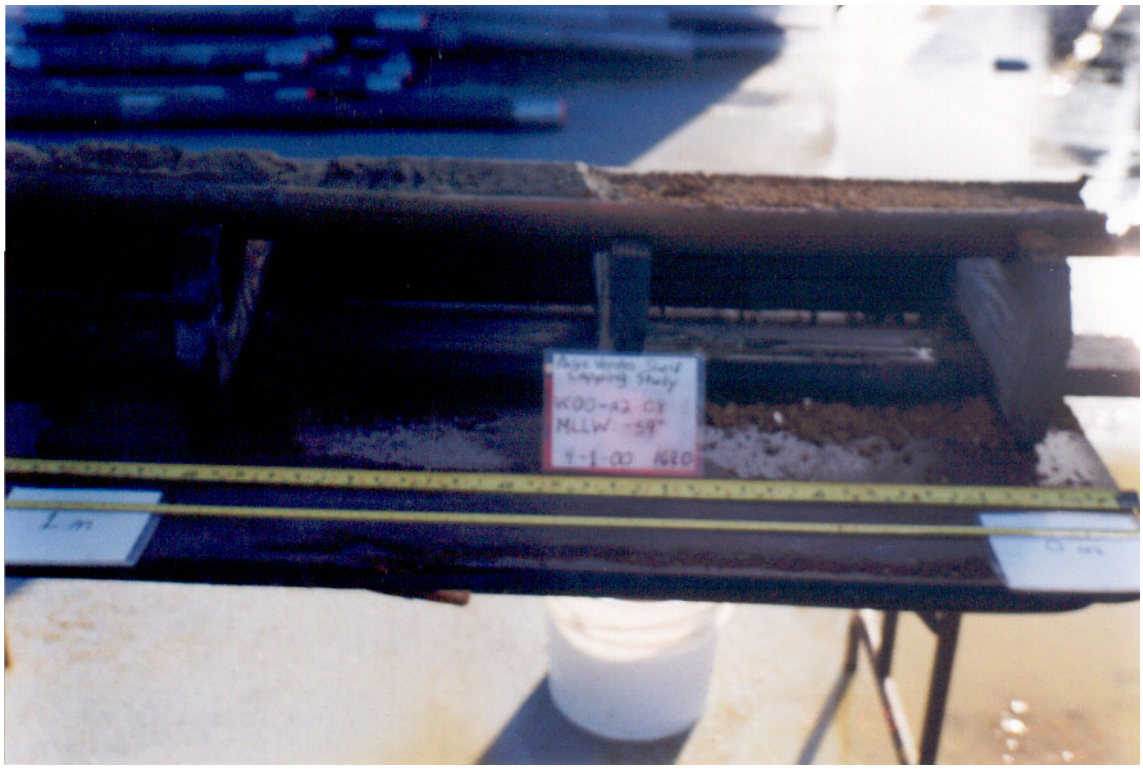

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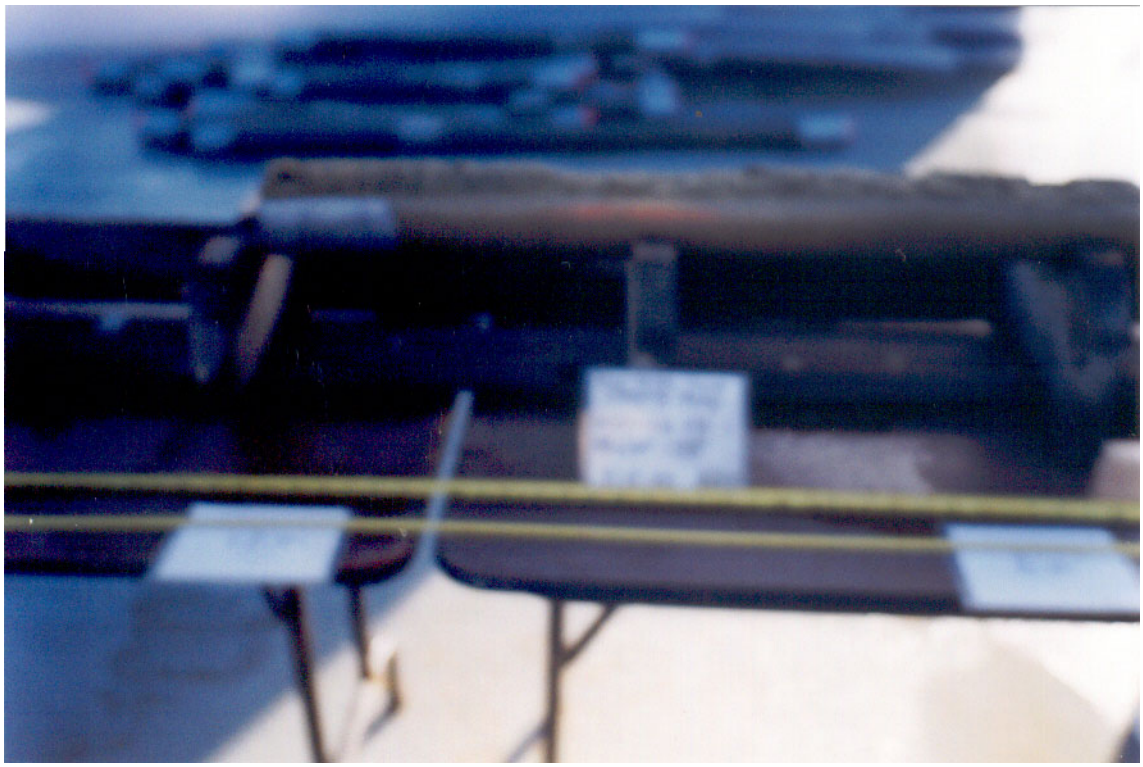

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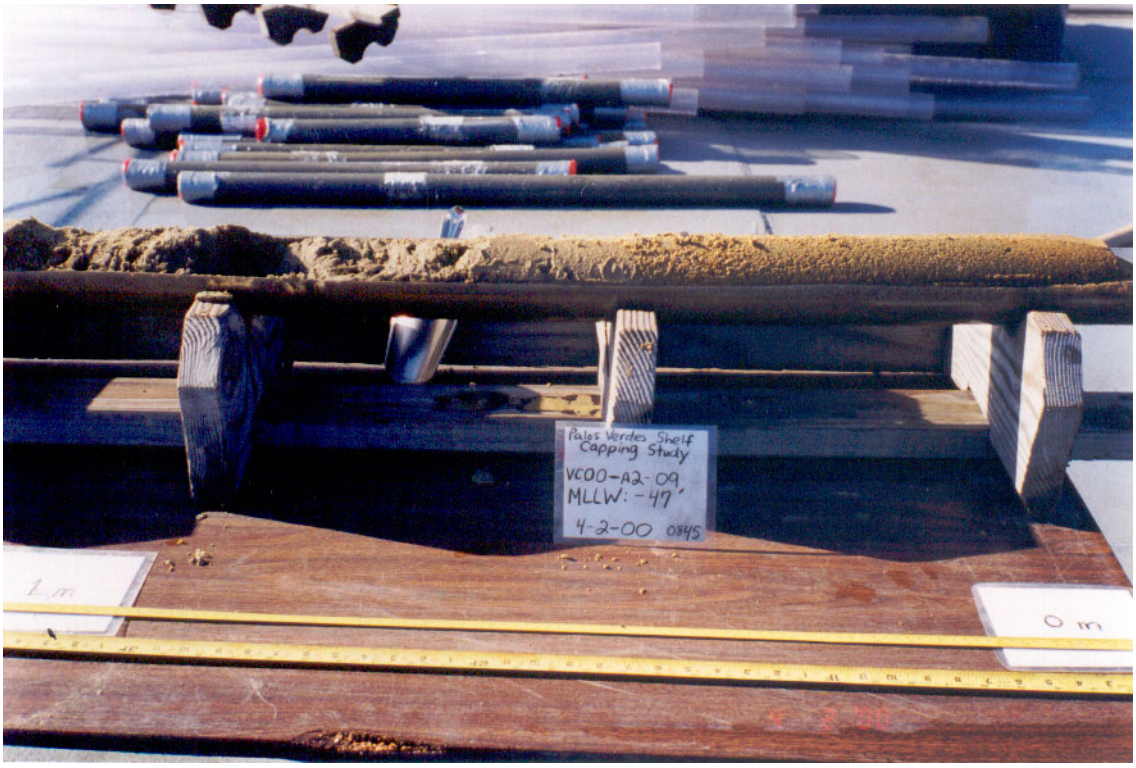

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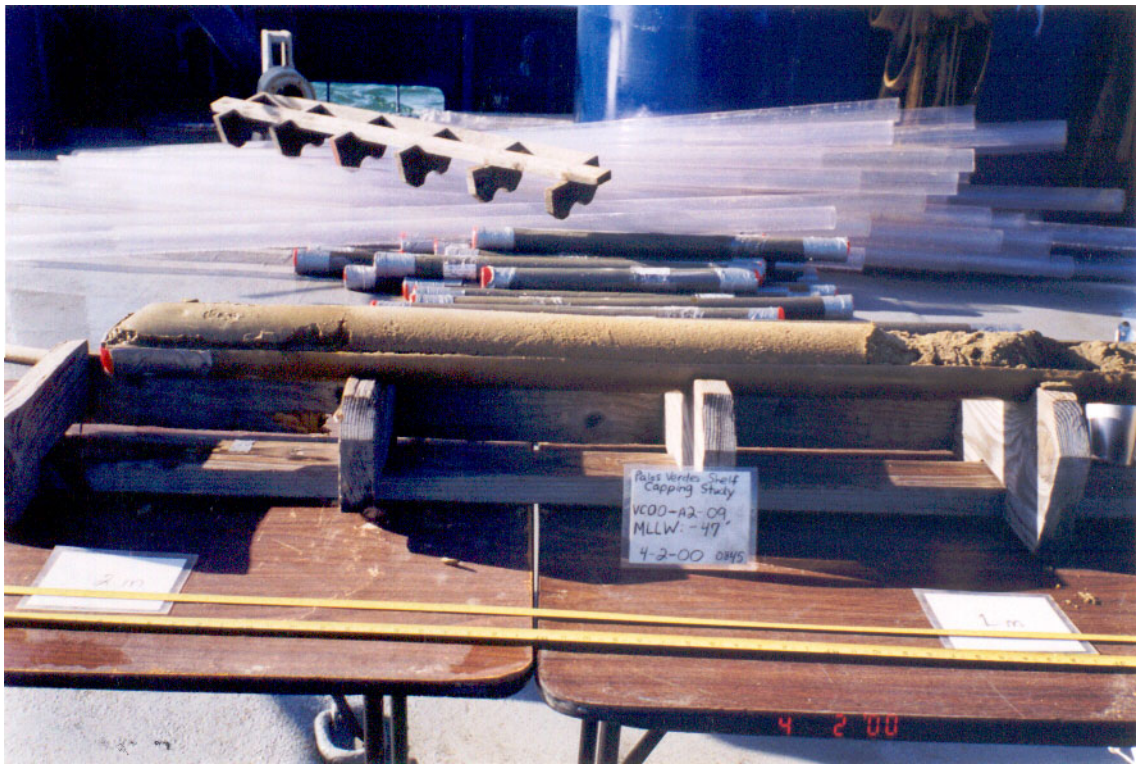

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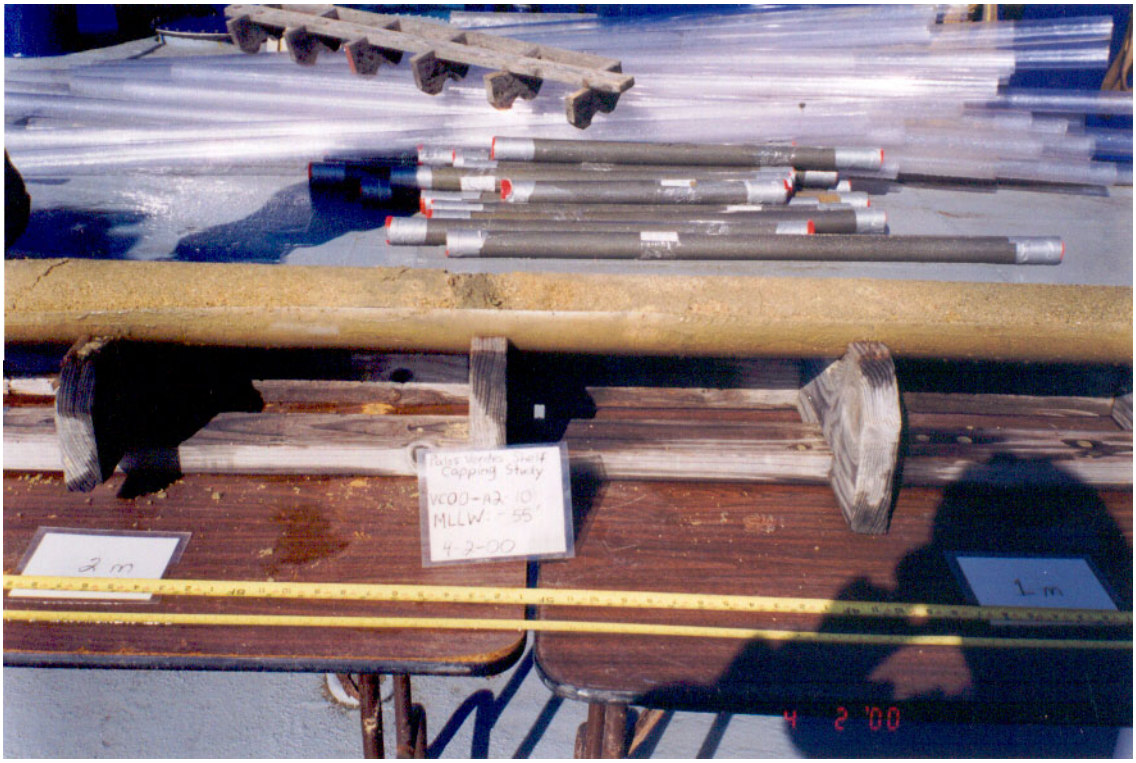

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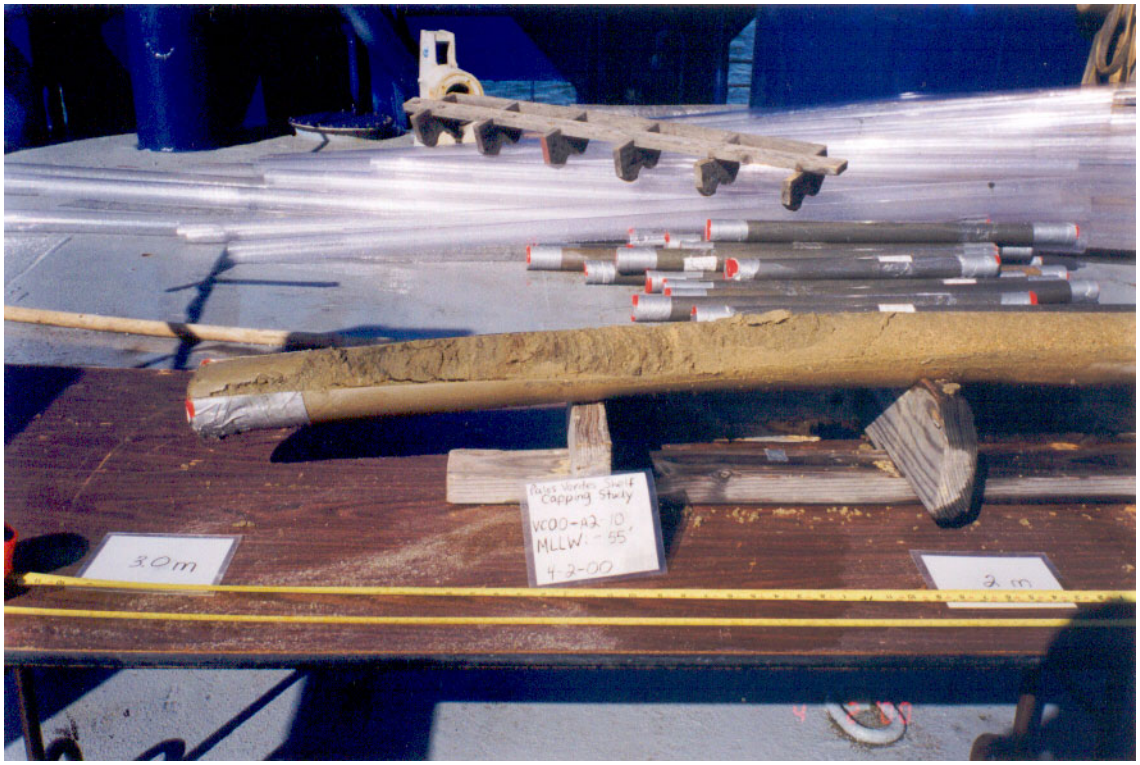

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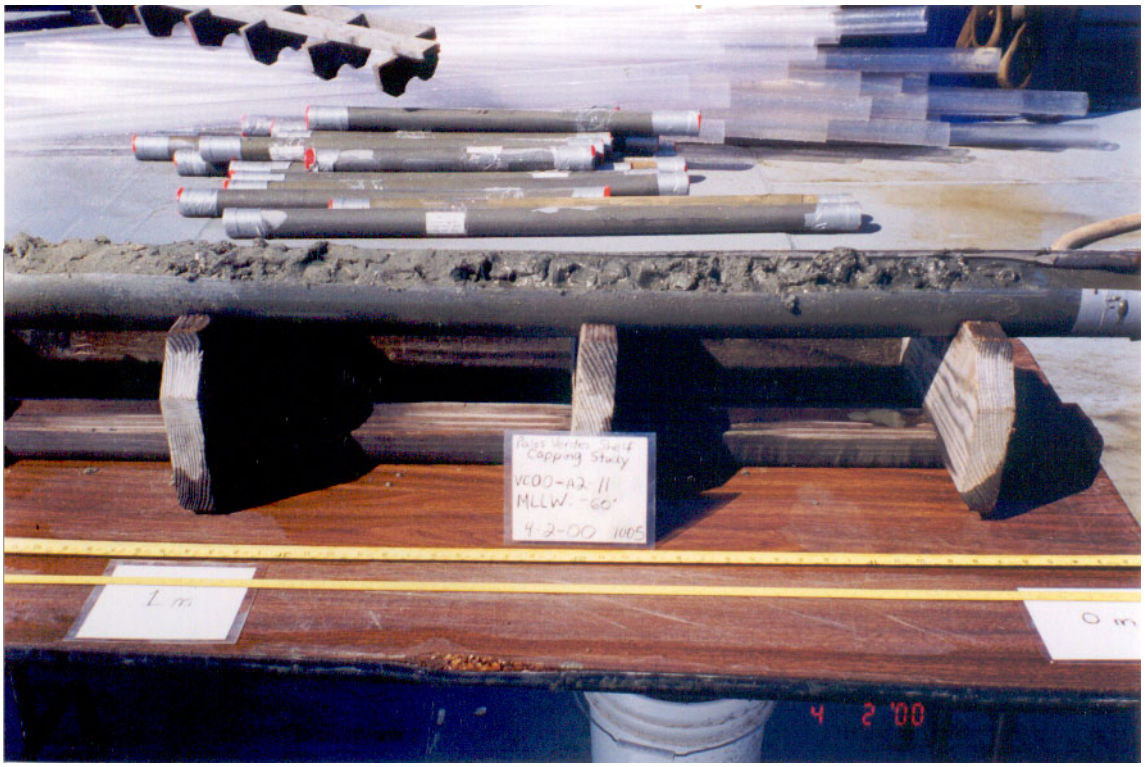

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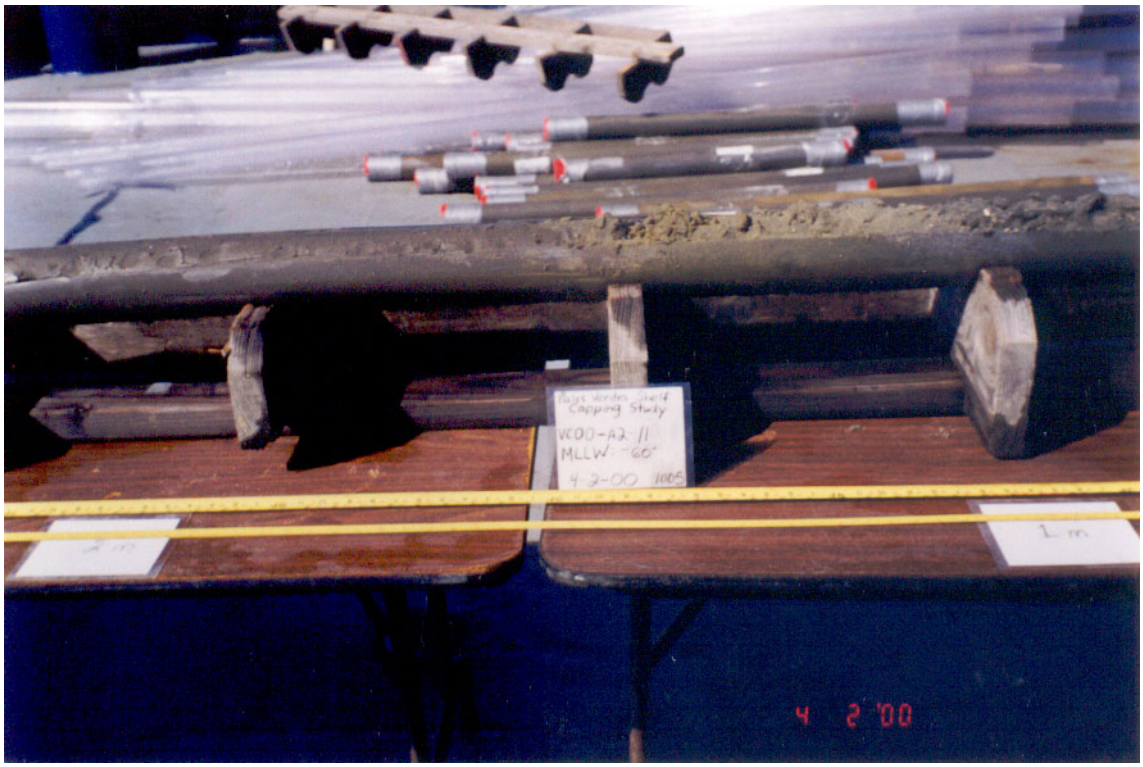

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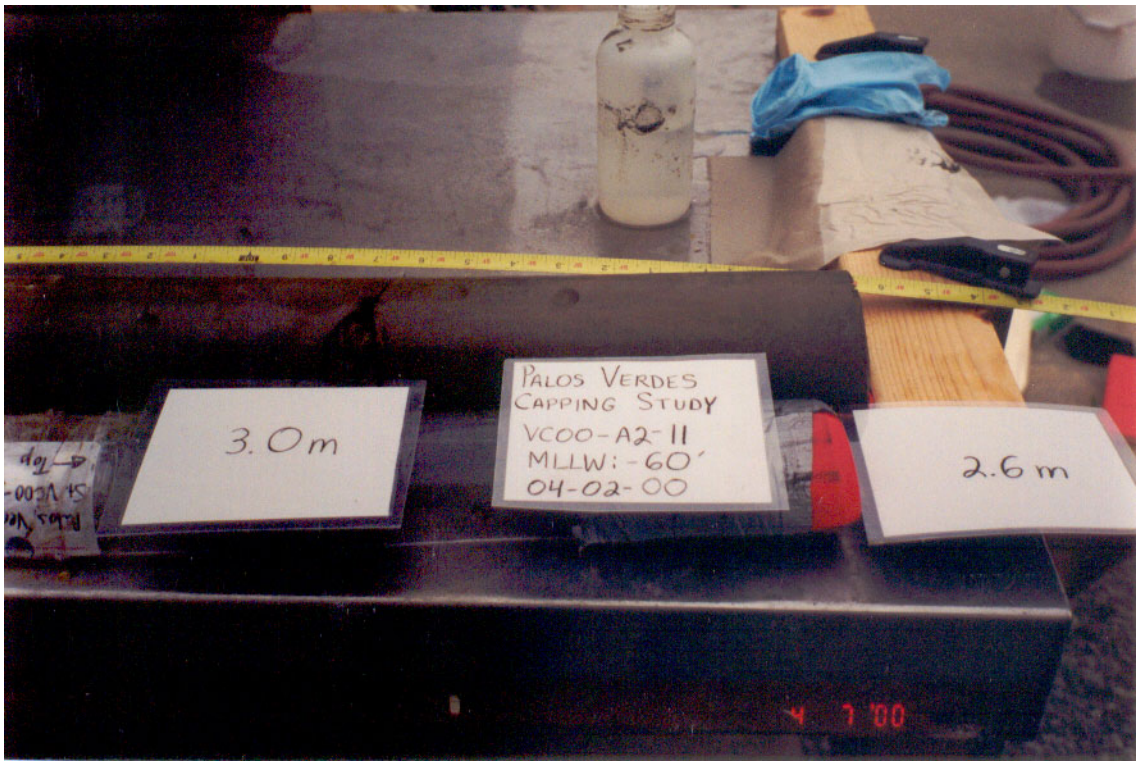

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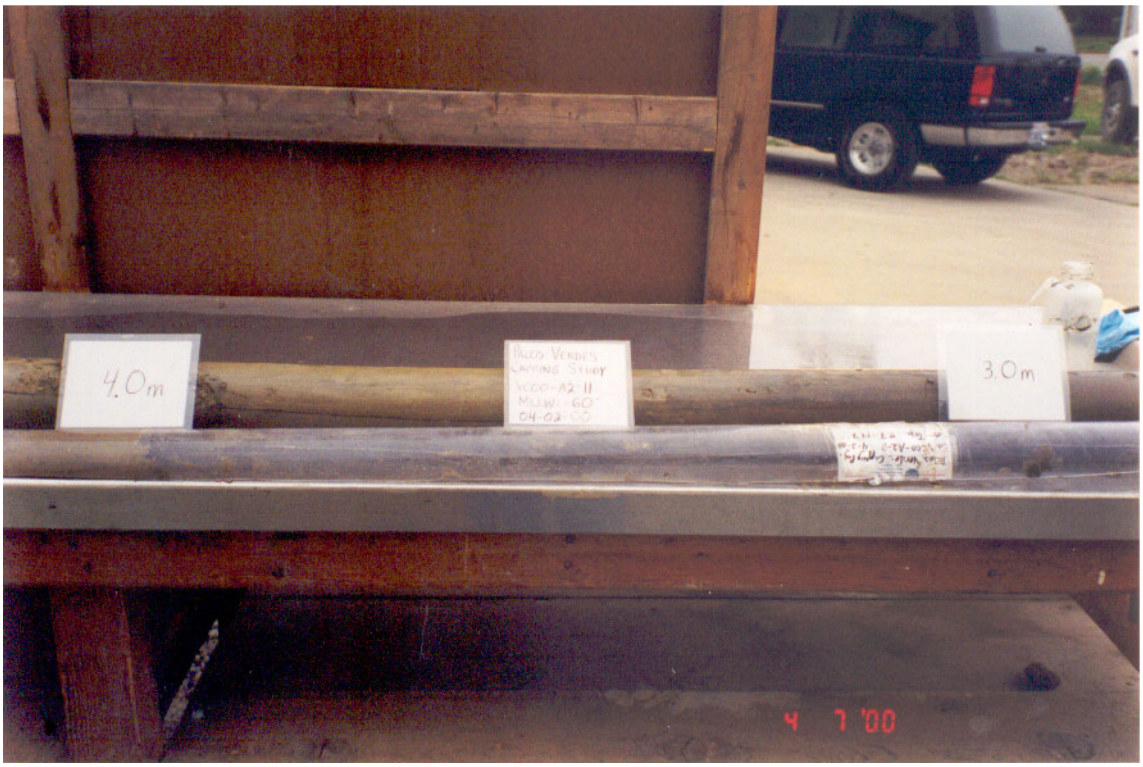

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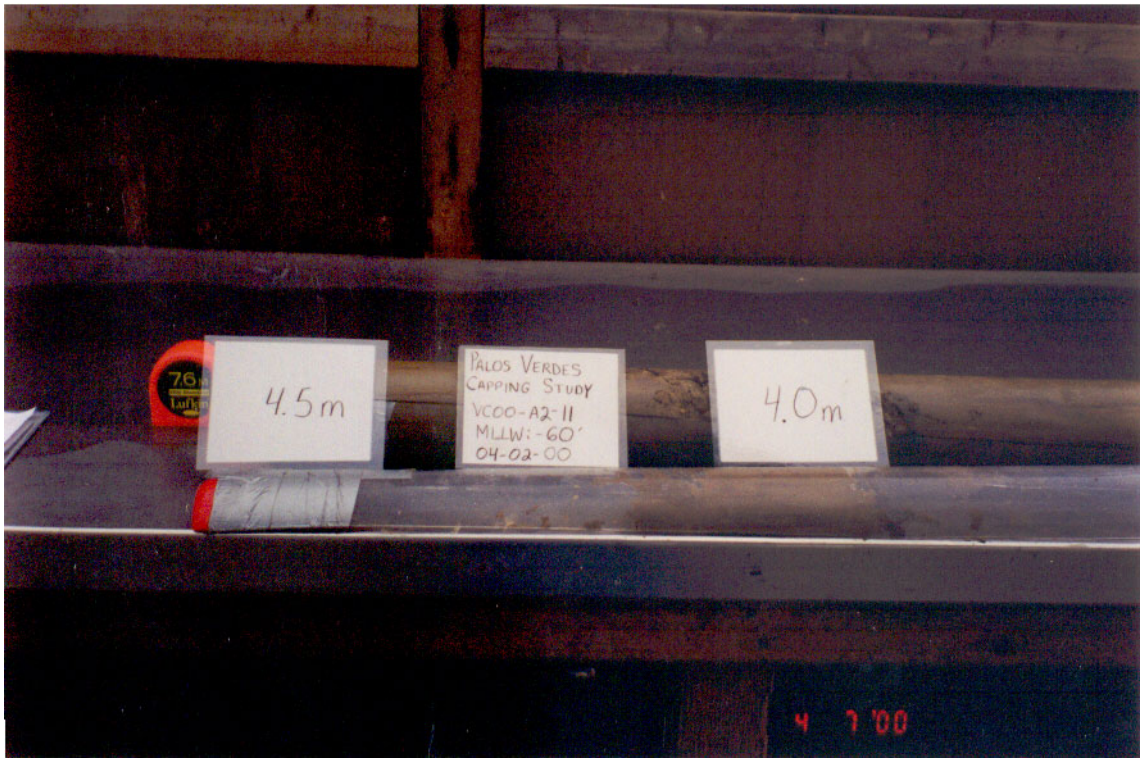

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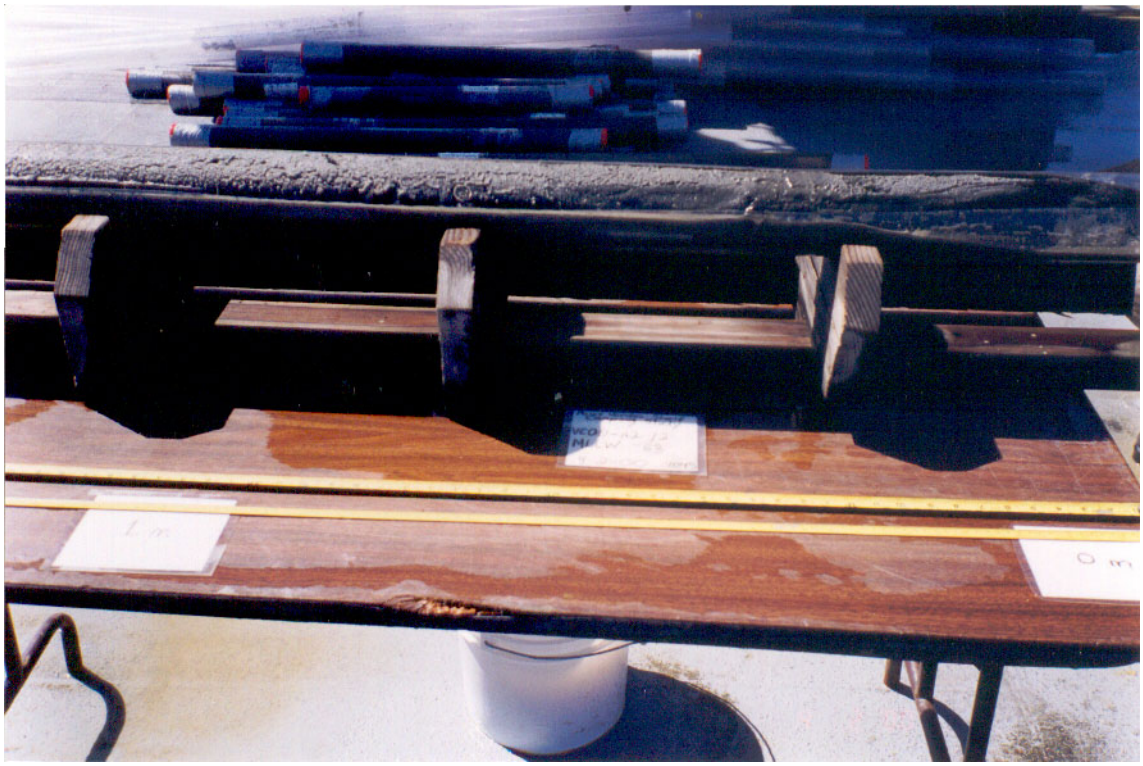

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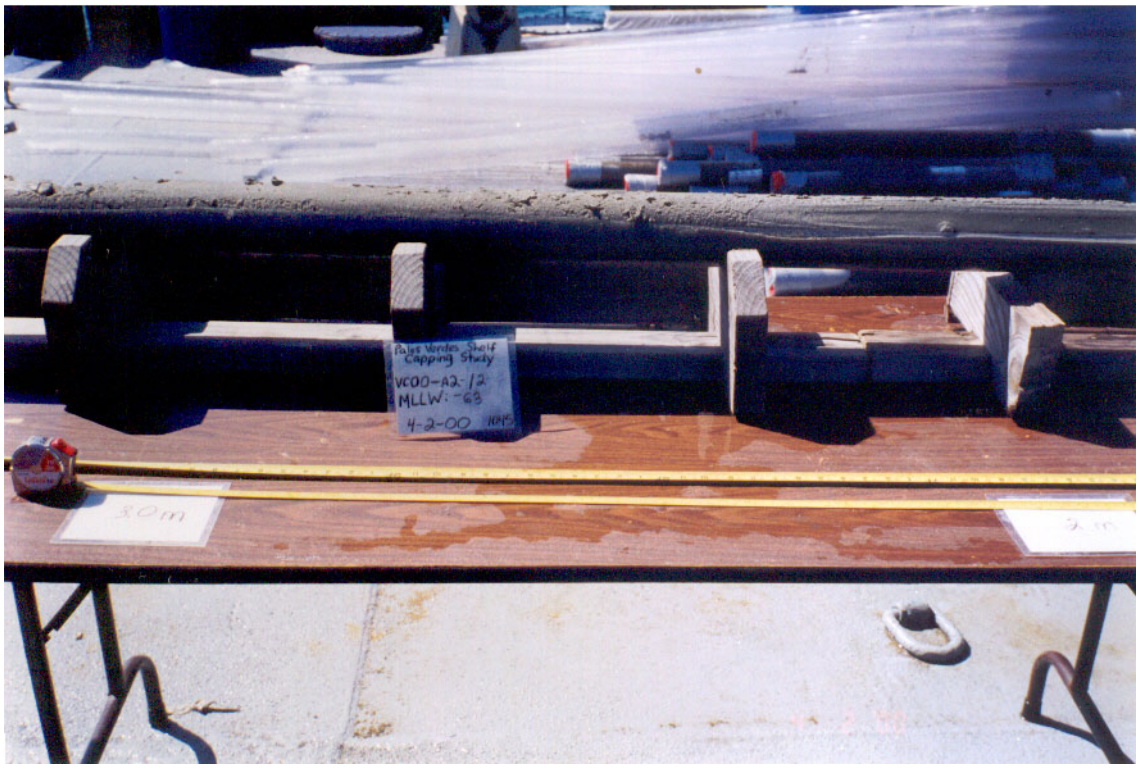

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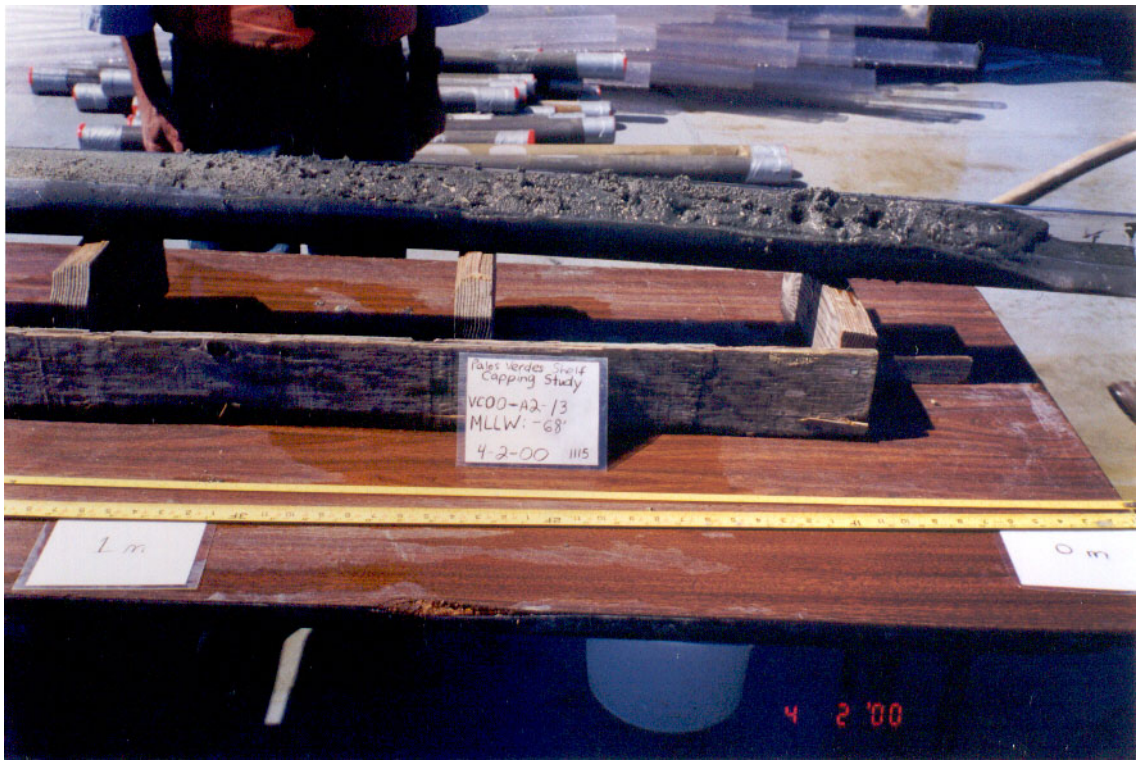

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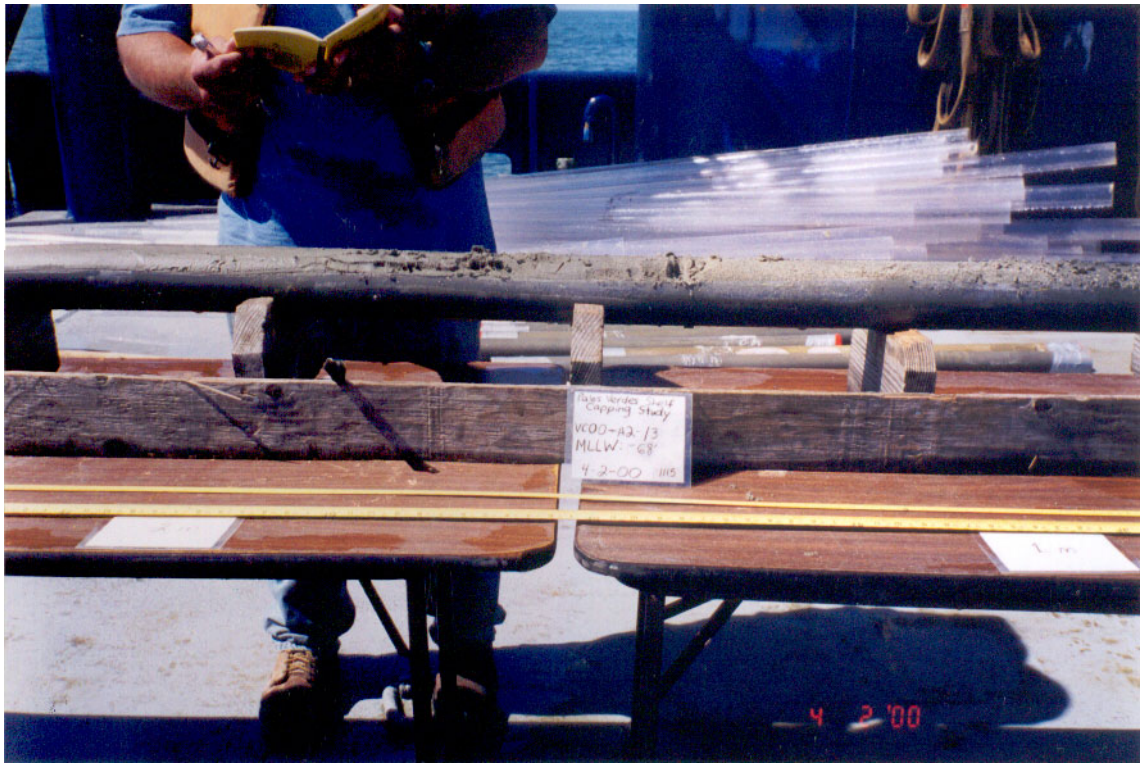

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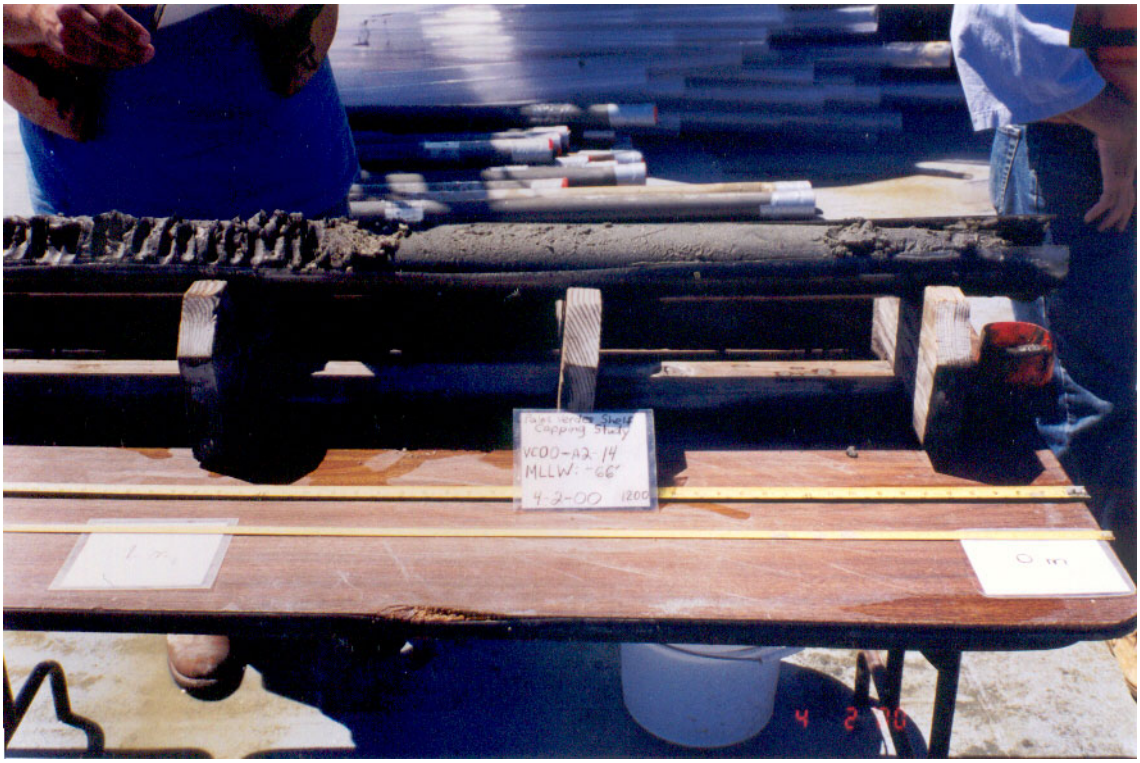

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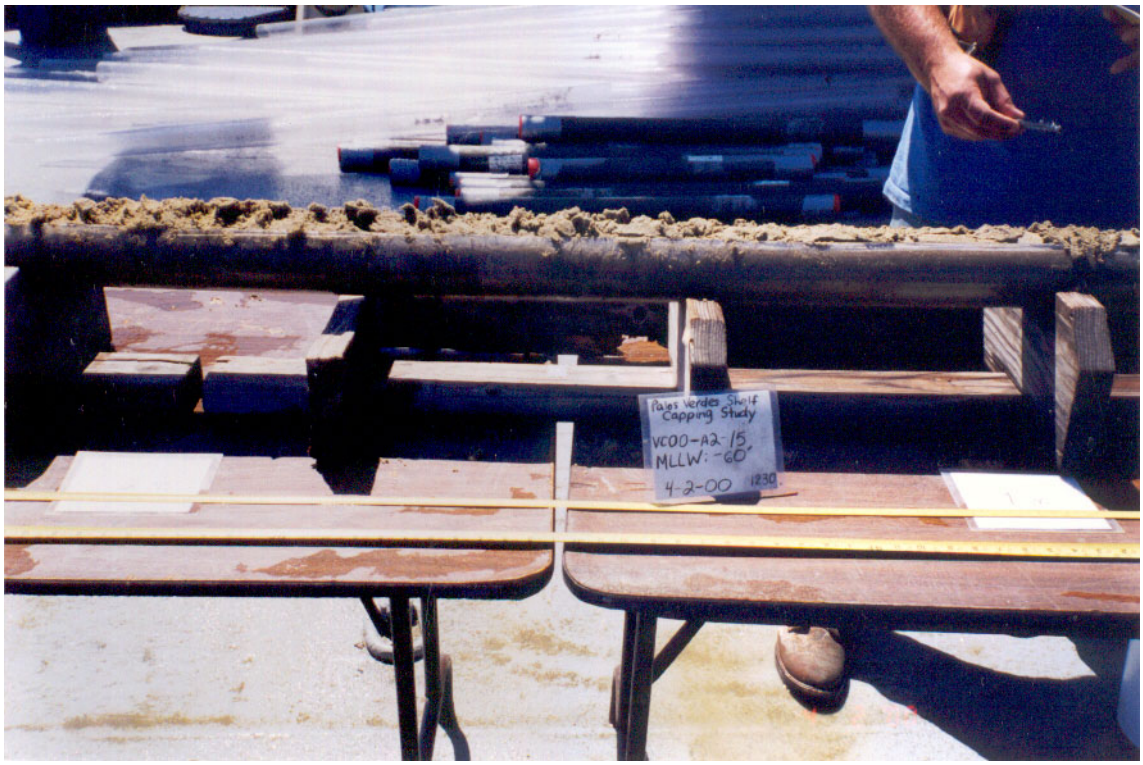

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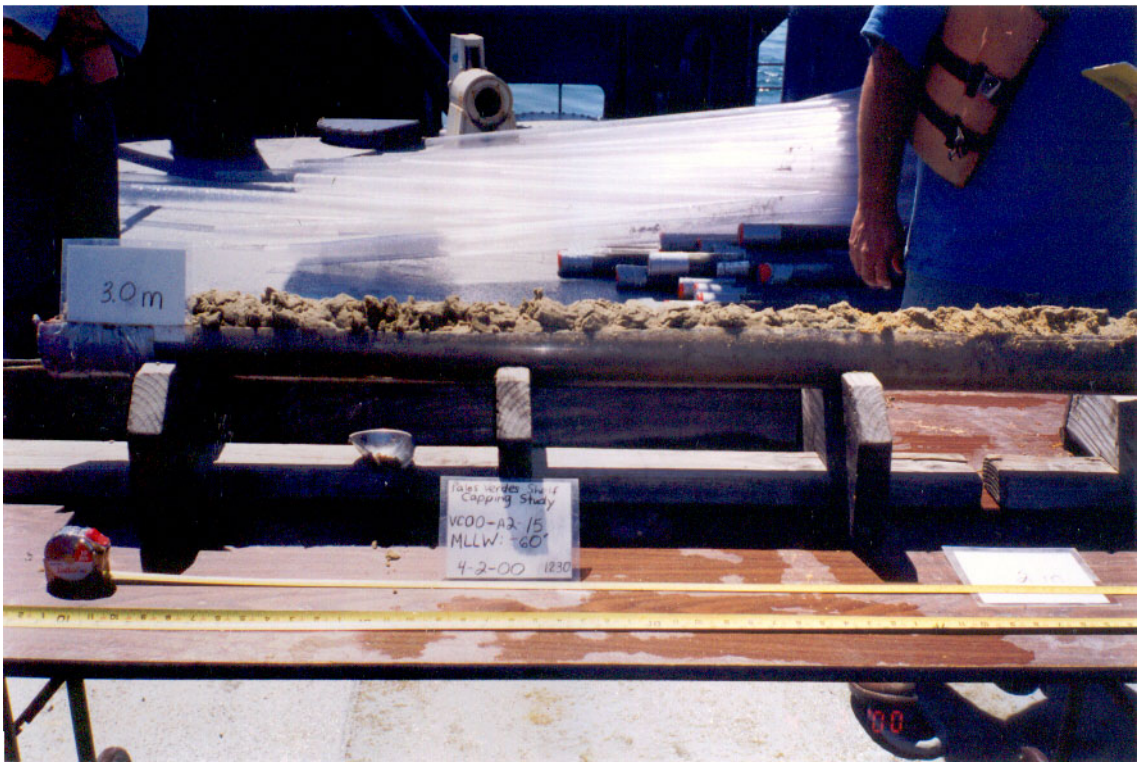

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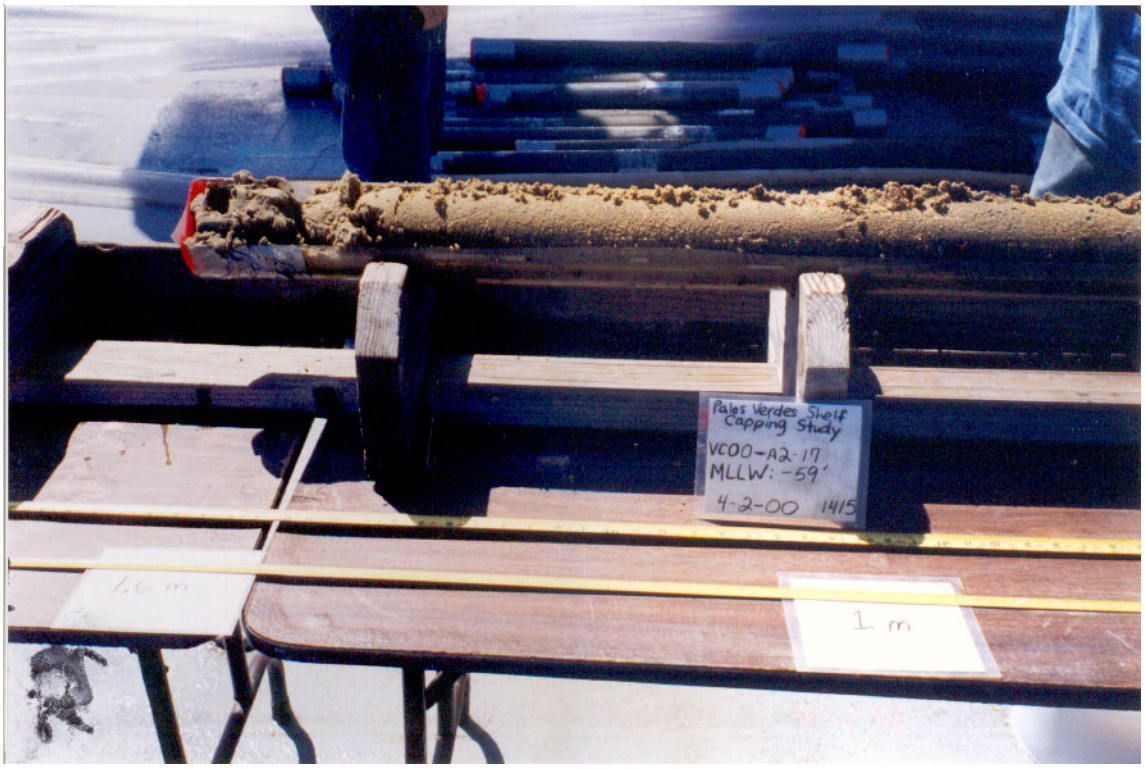

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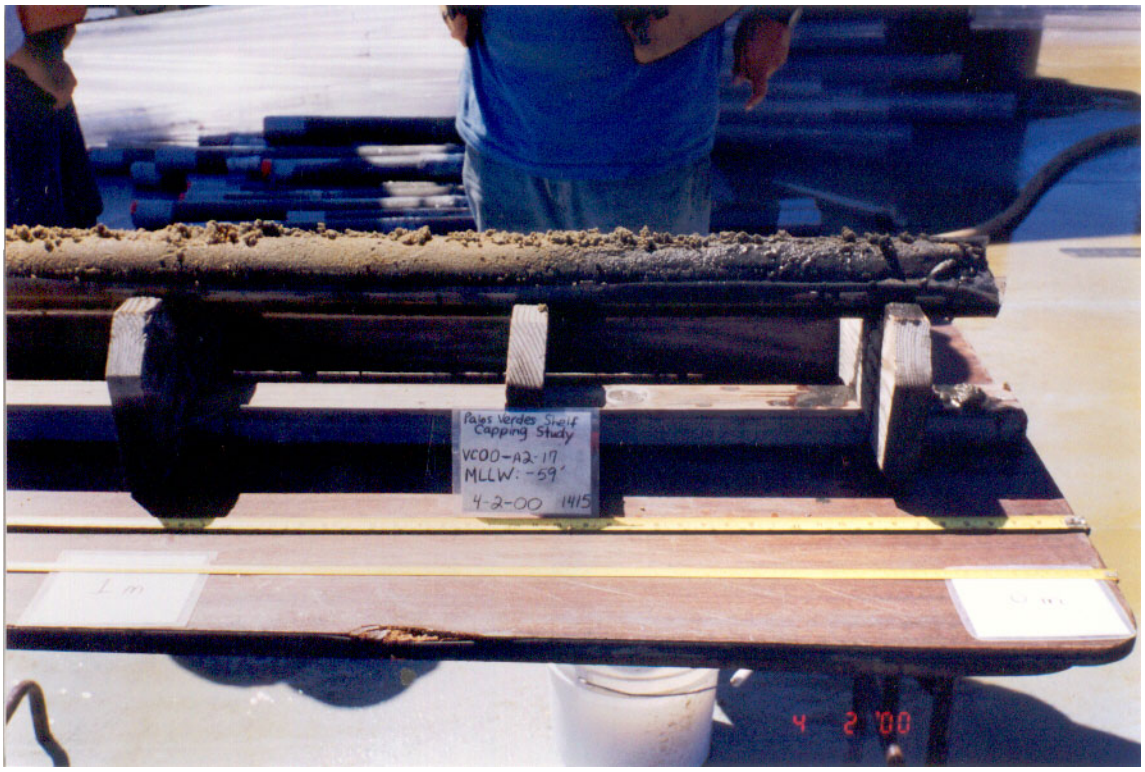

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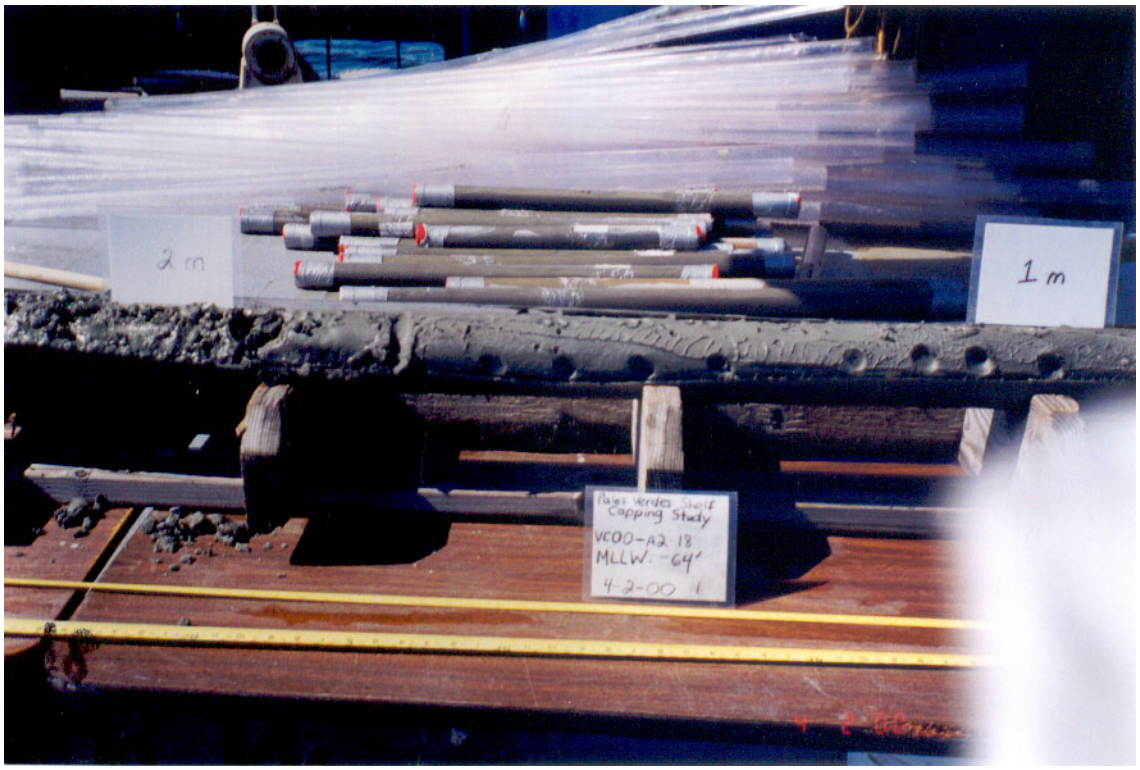

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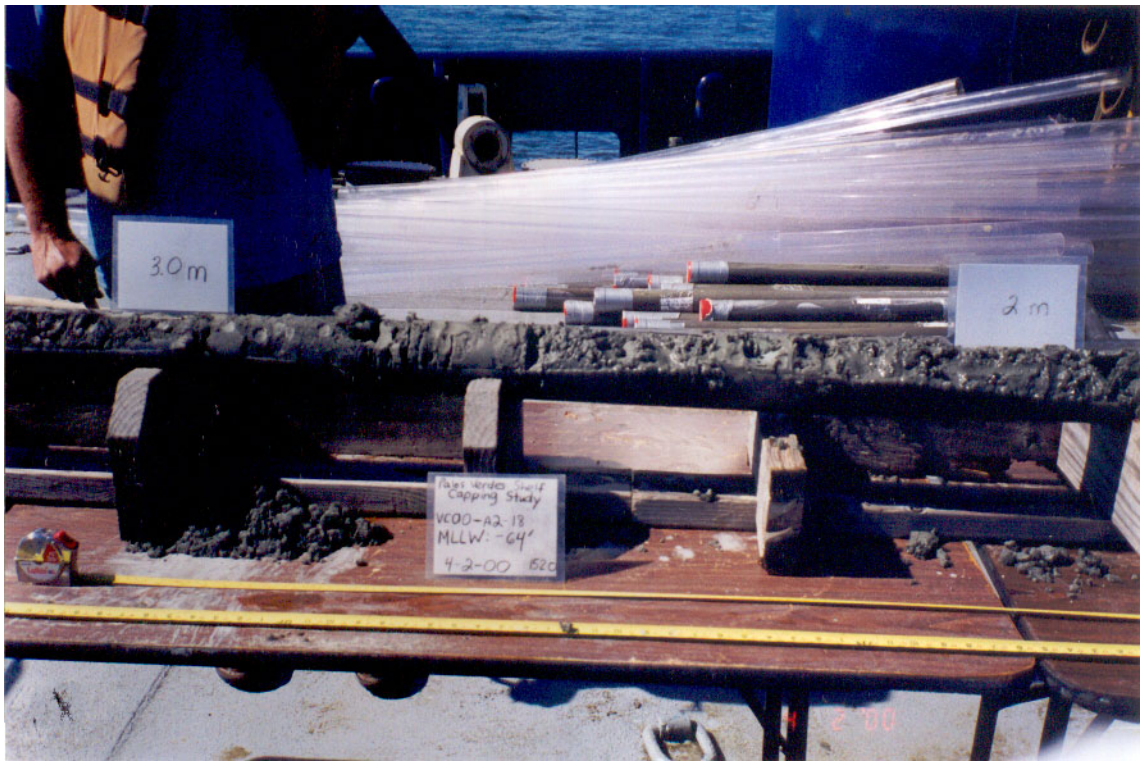

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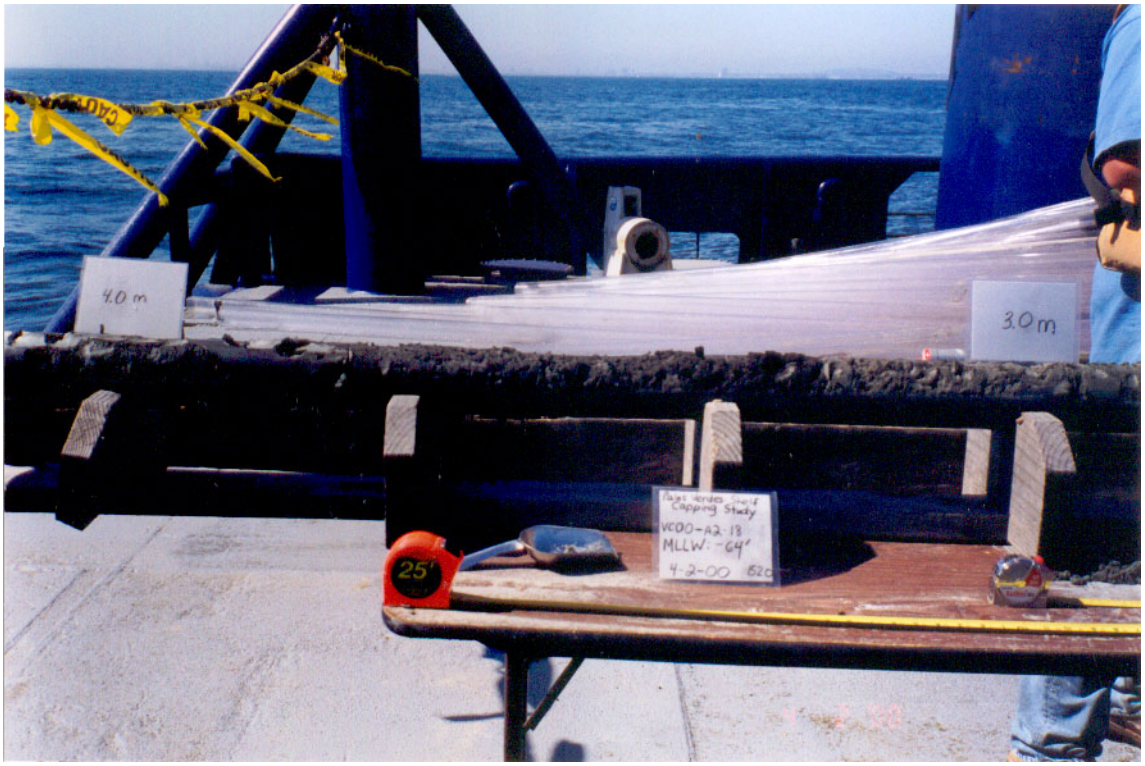

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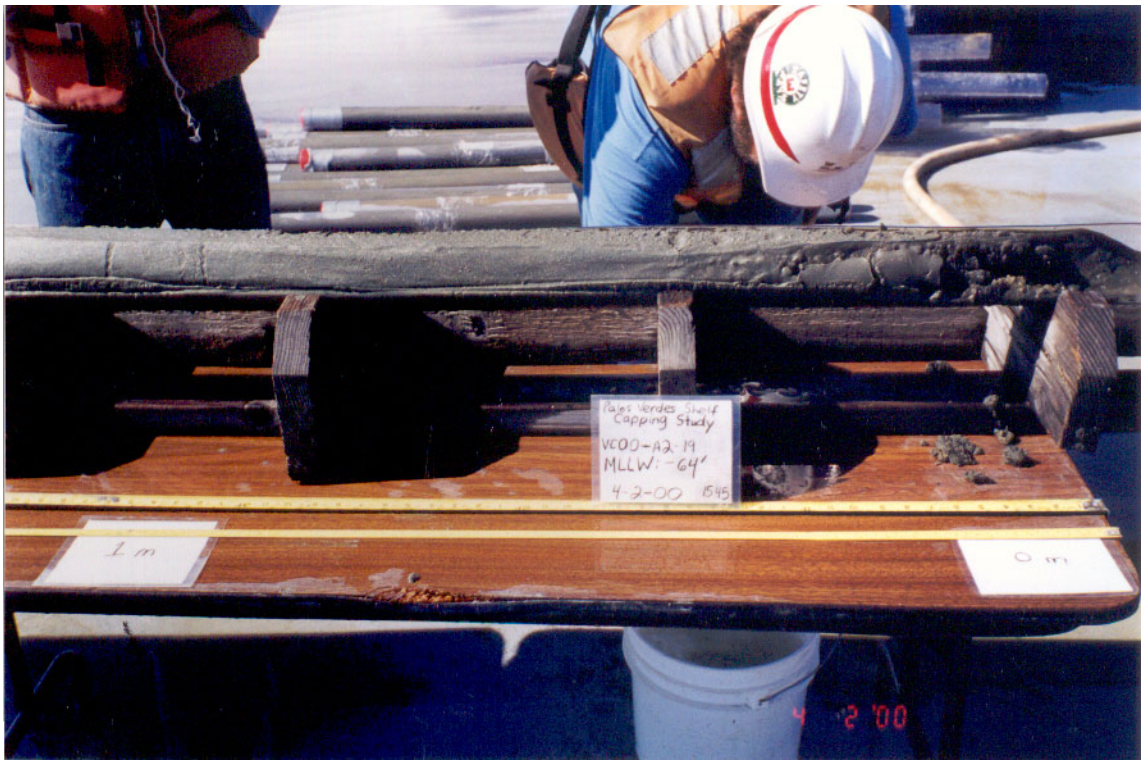

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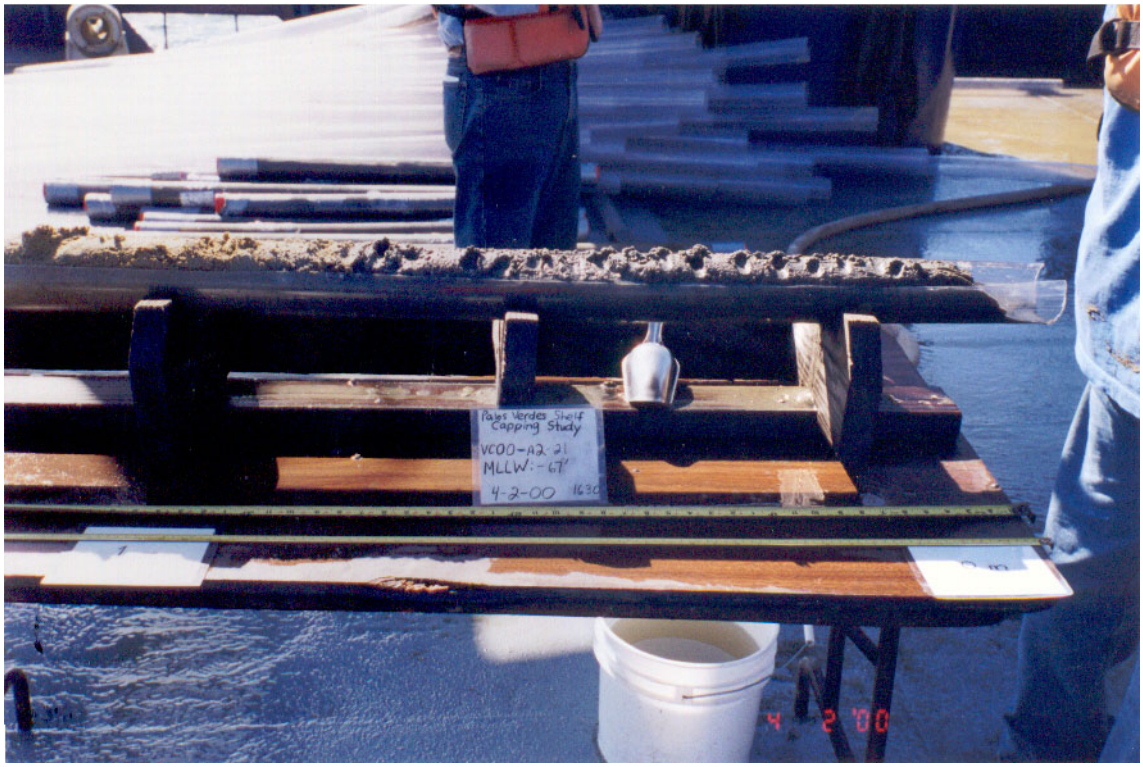

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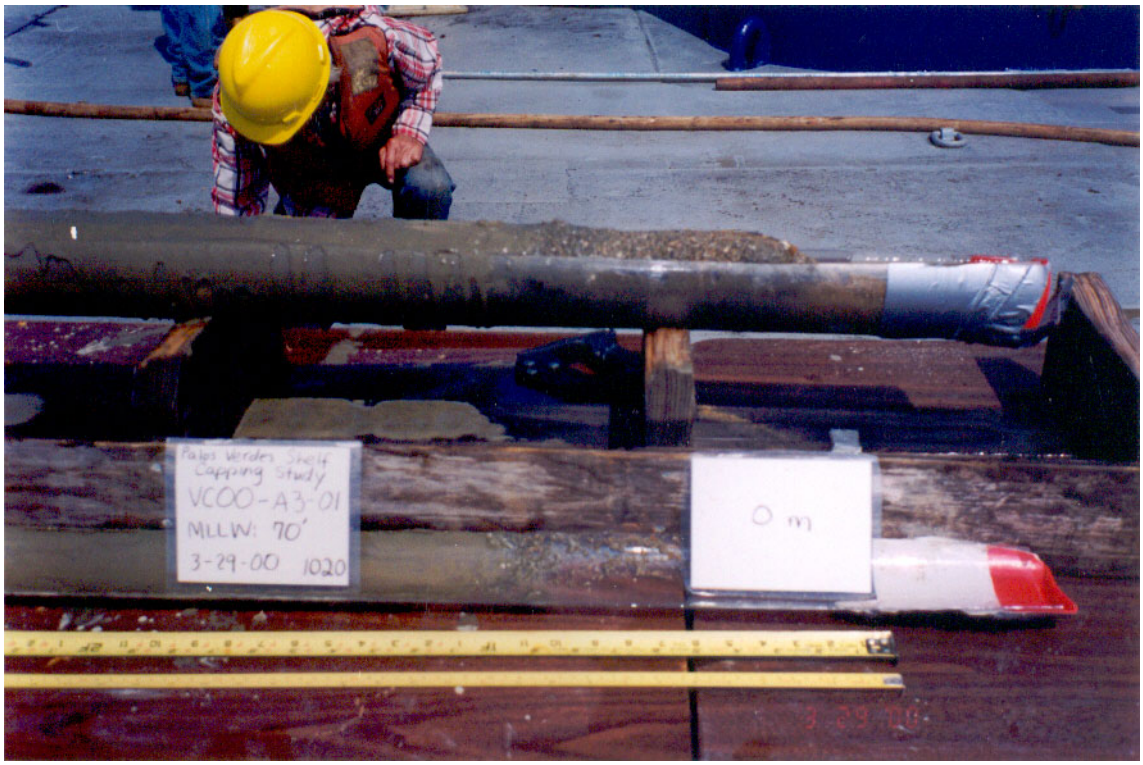

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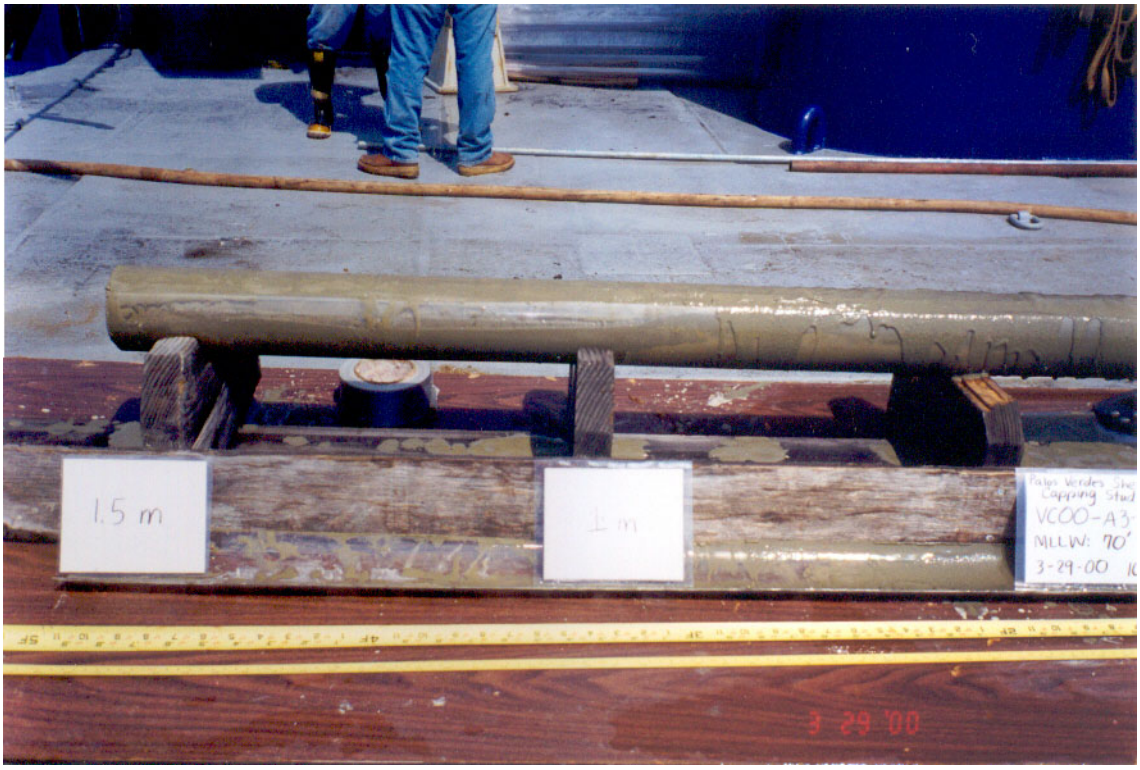

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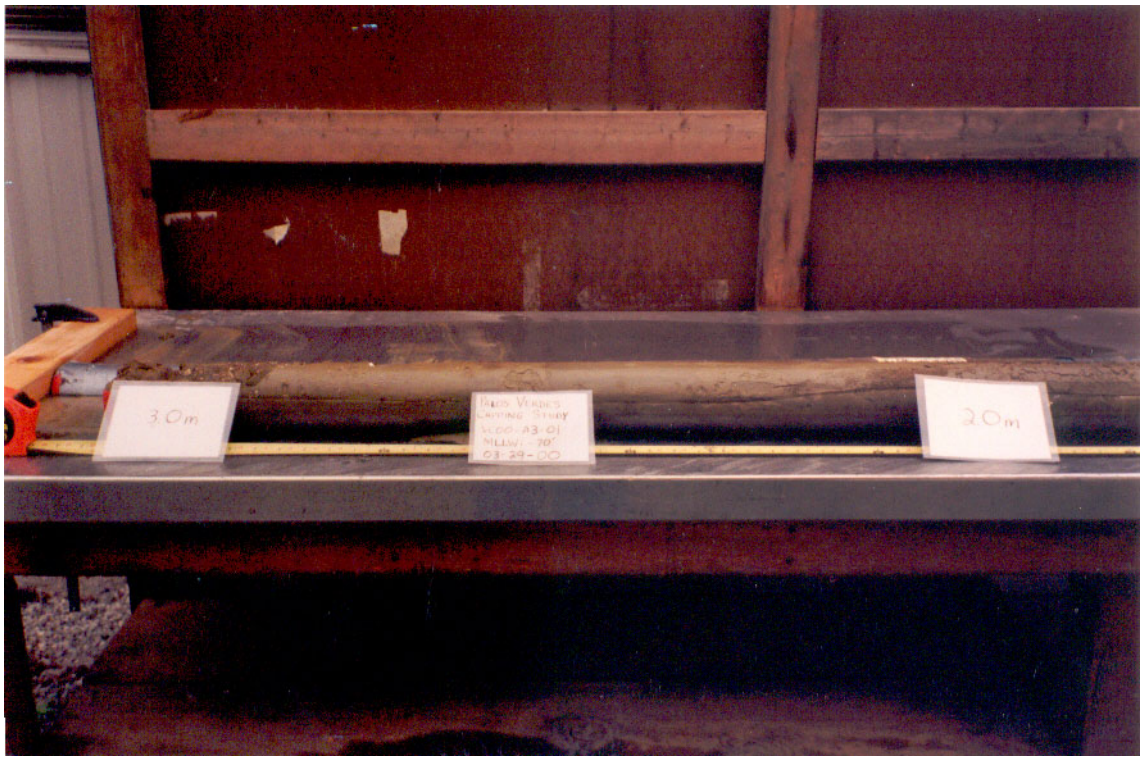

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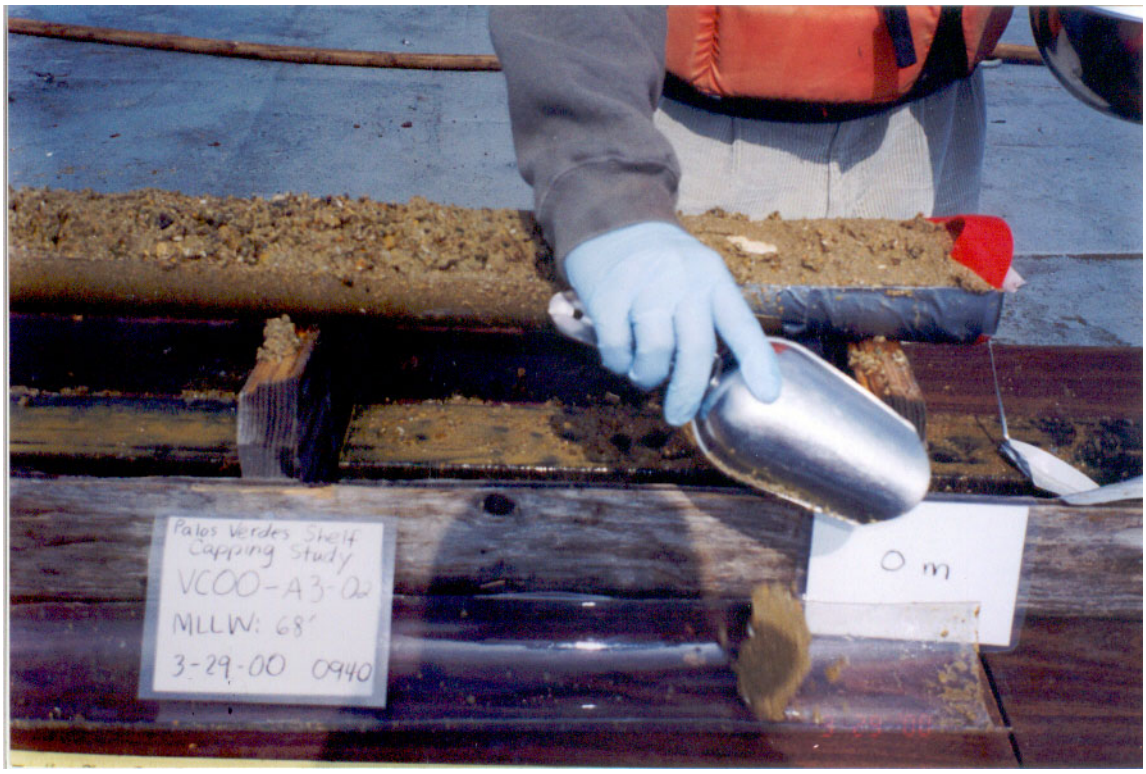

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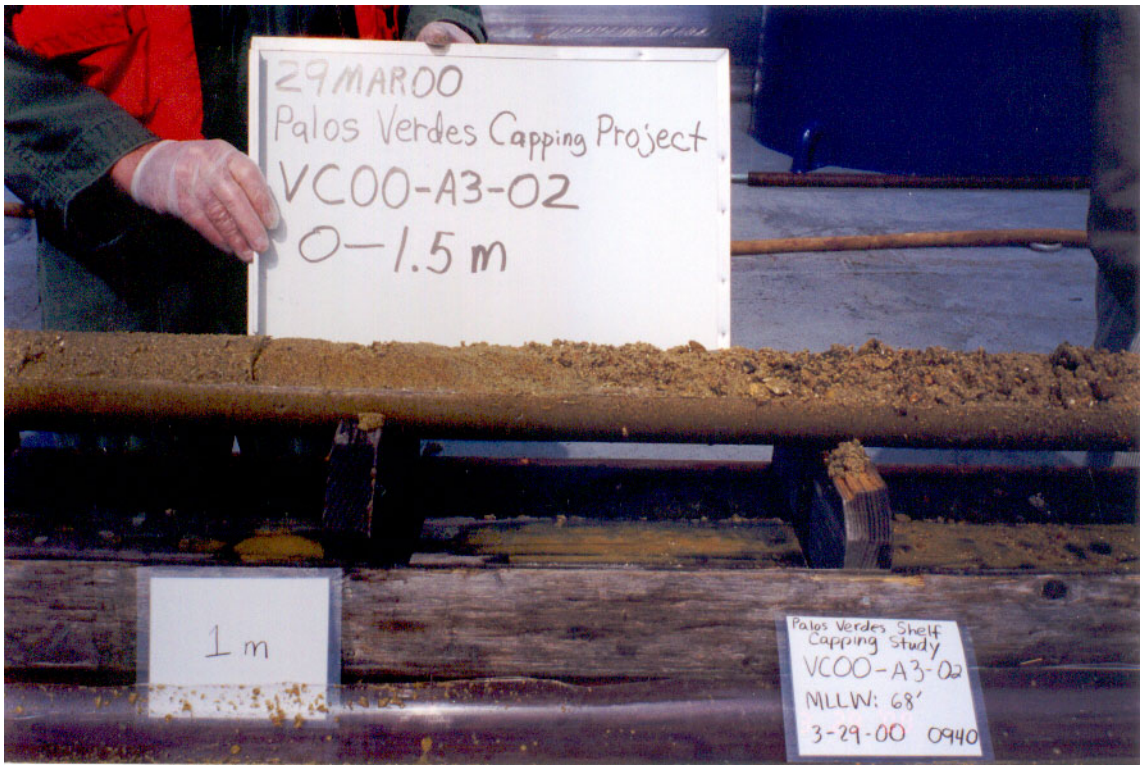

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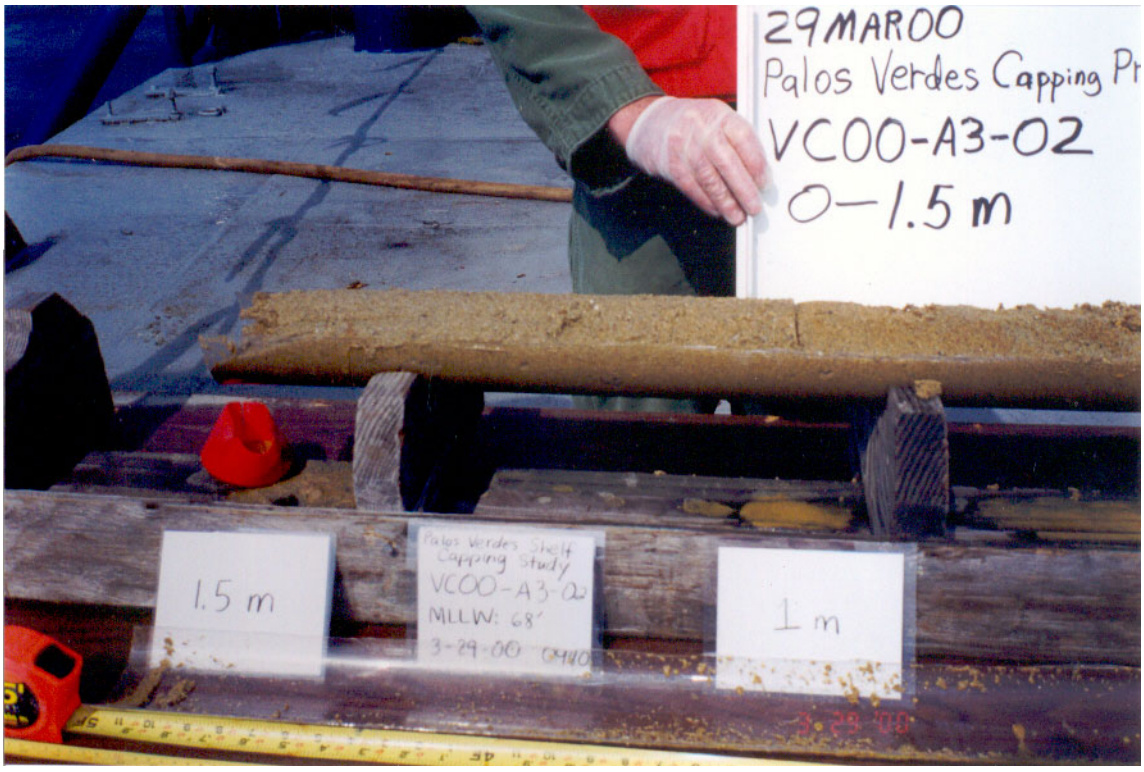

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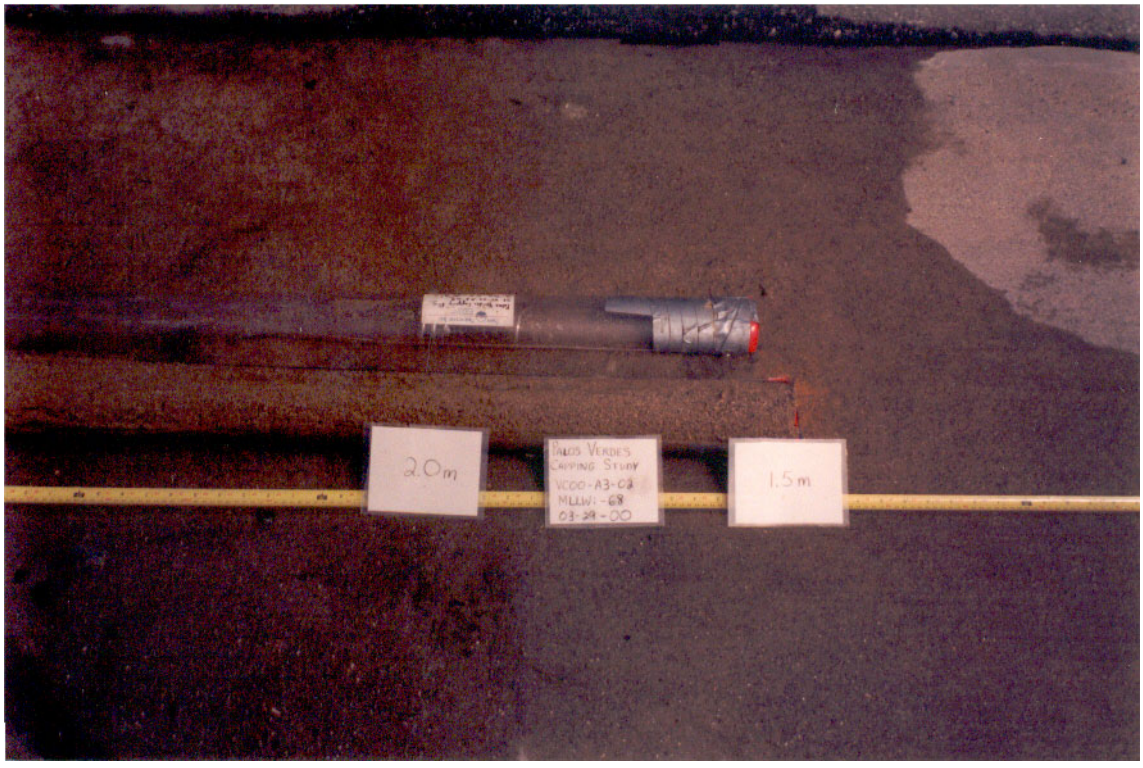

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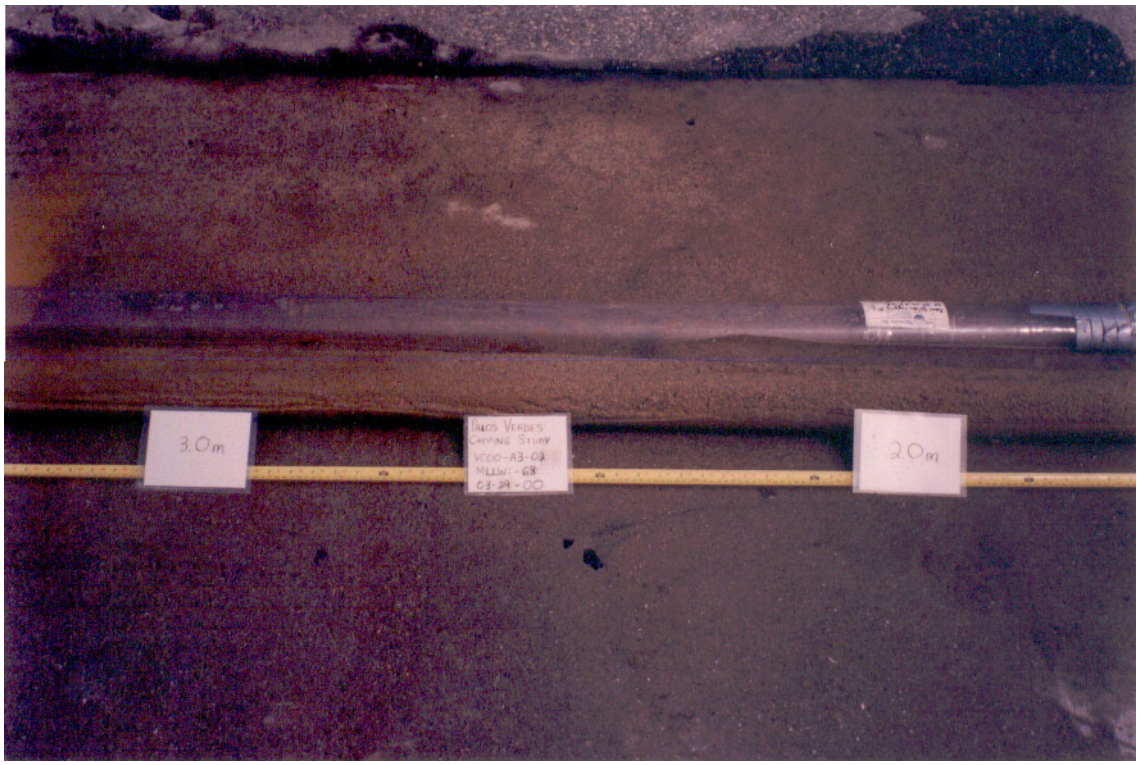

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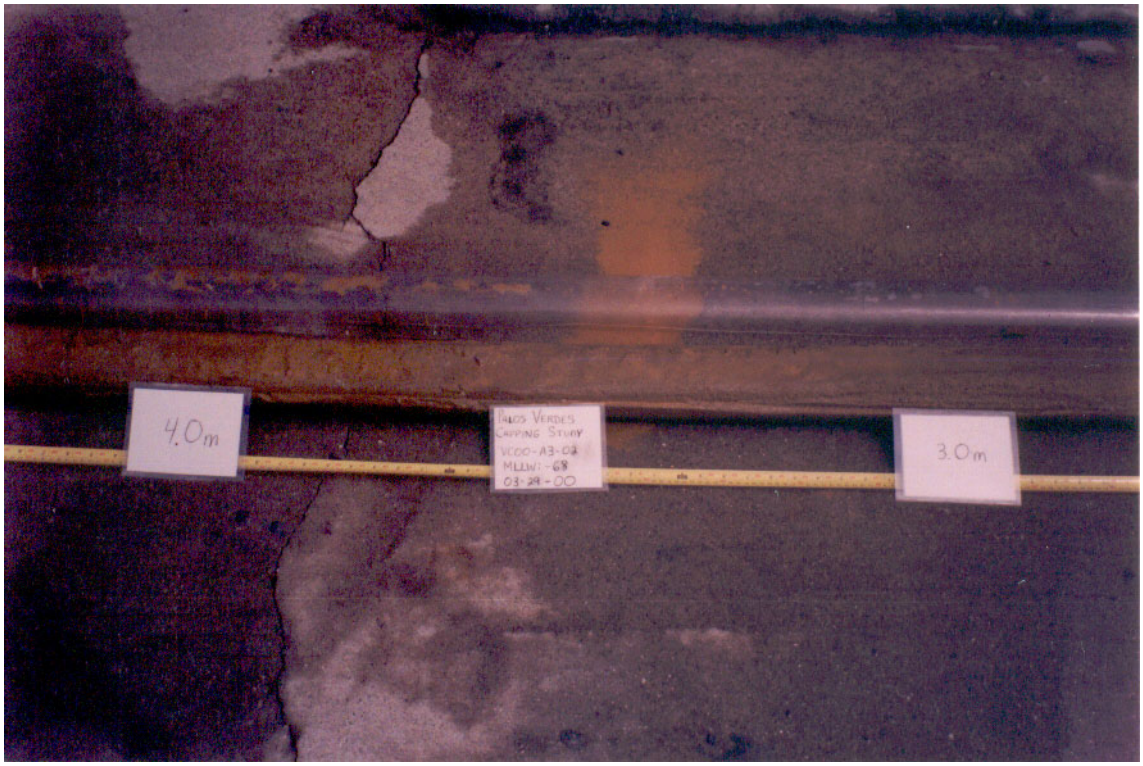

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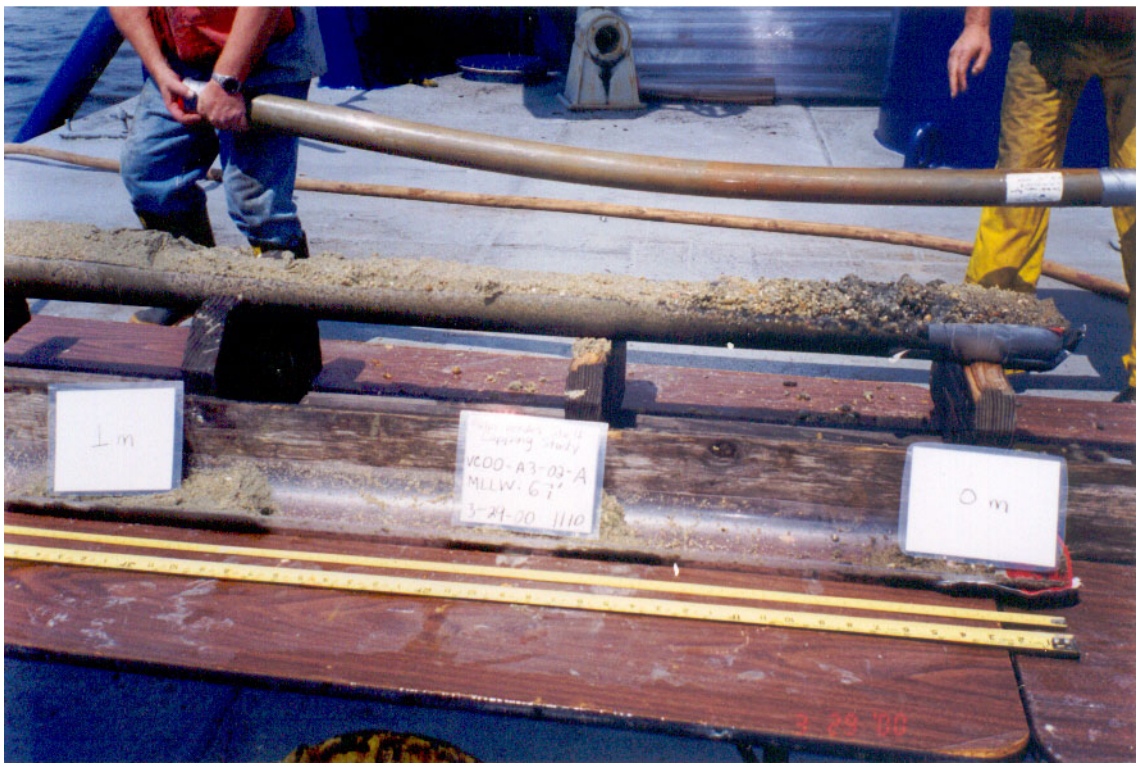

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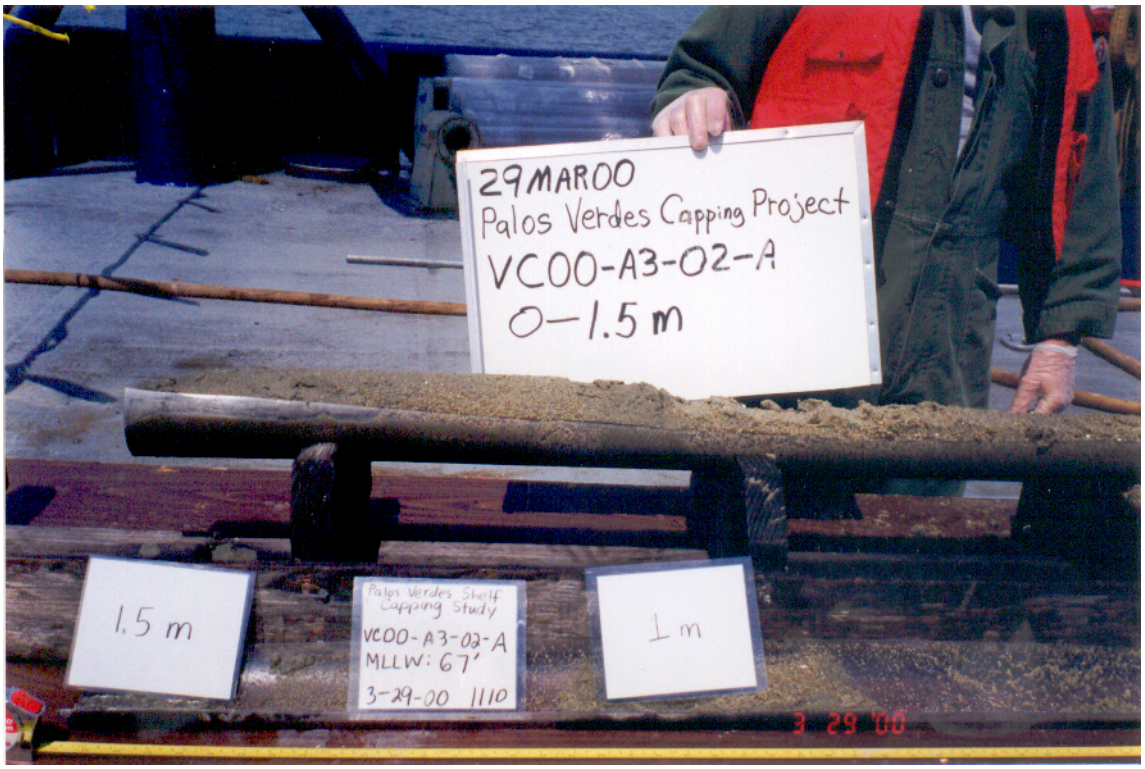

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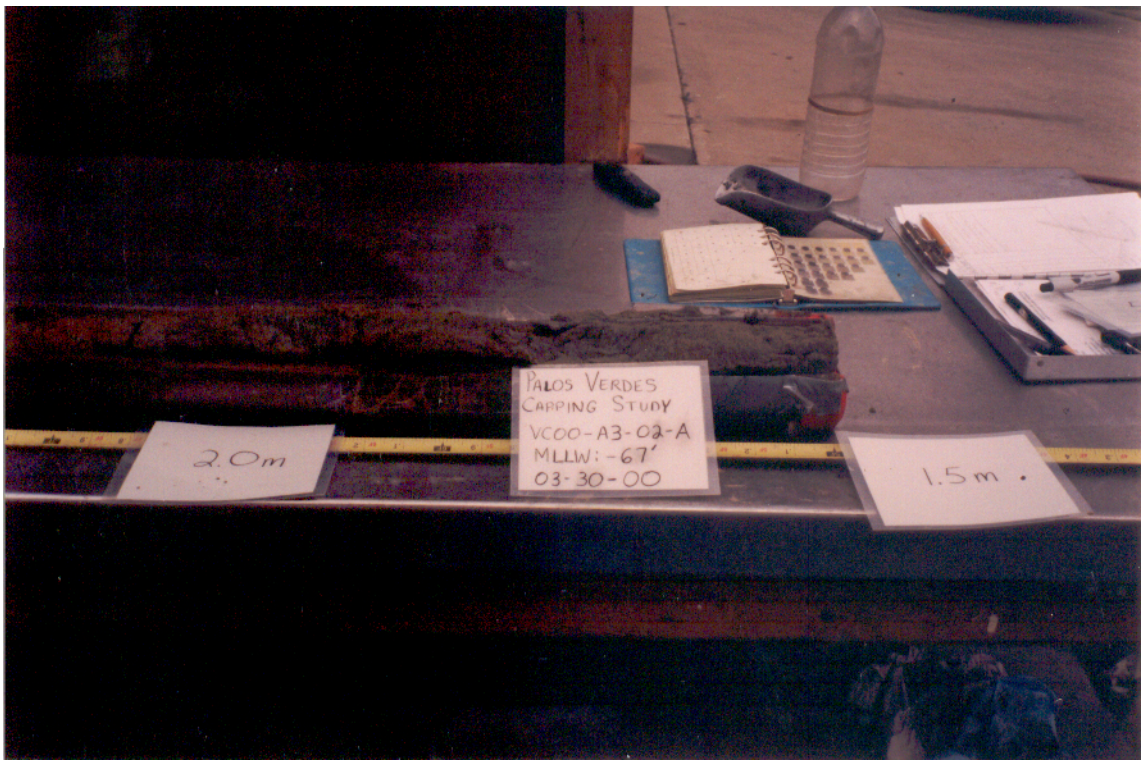

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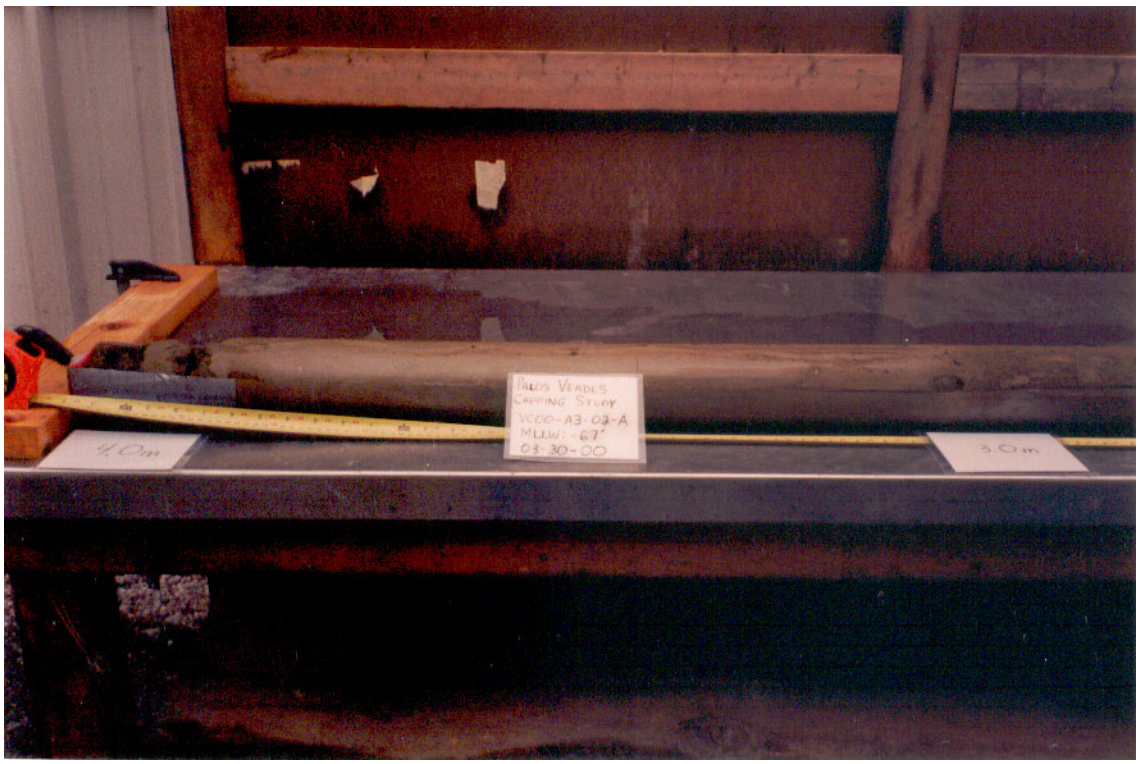

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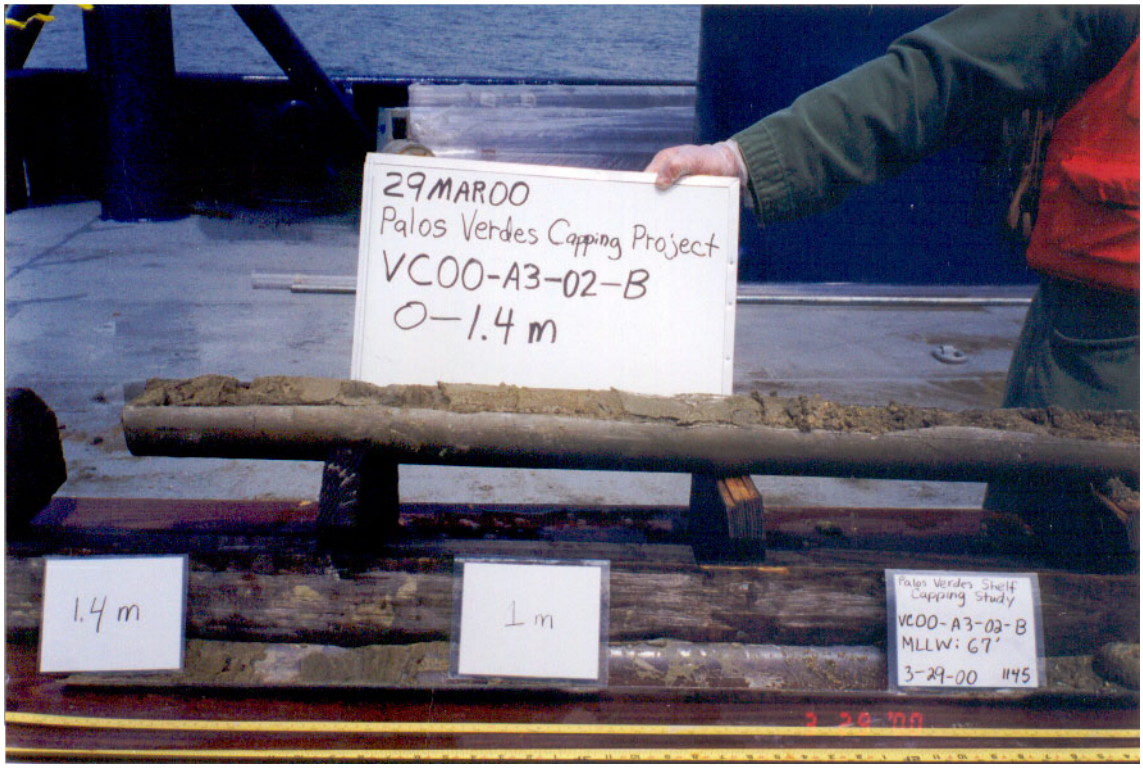

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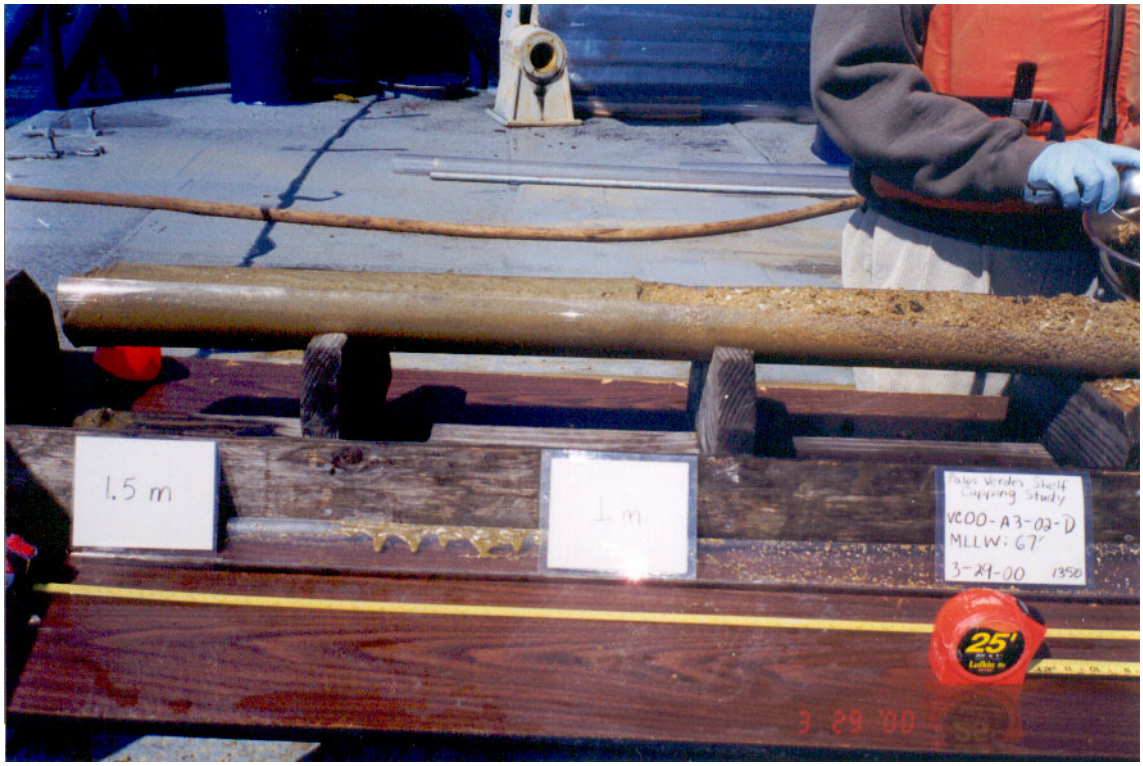
Geomatrix Picture 112. 112

Geomatrix Picture 113. 113

Geomatrix Picture 114. 114

Geomatrix Picture 115. 115



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Geomatrix Picture 117. 117

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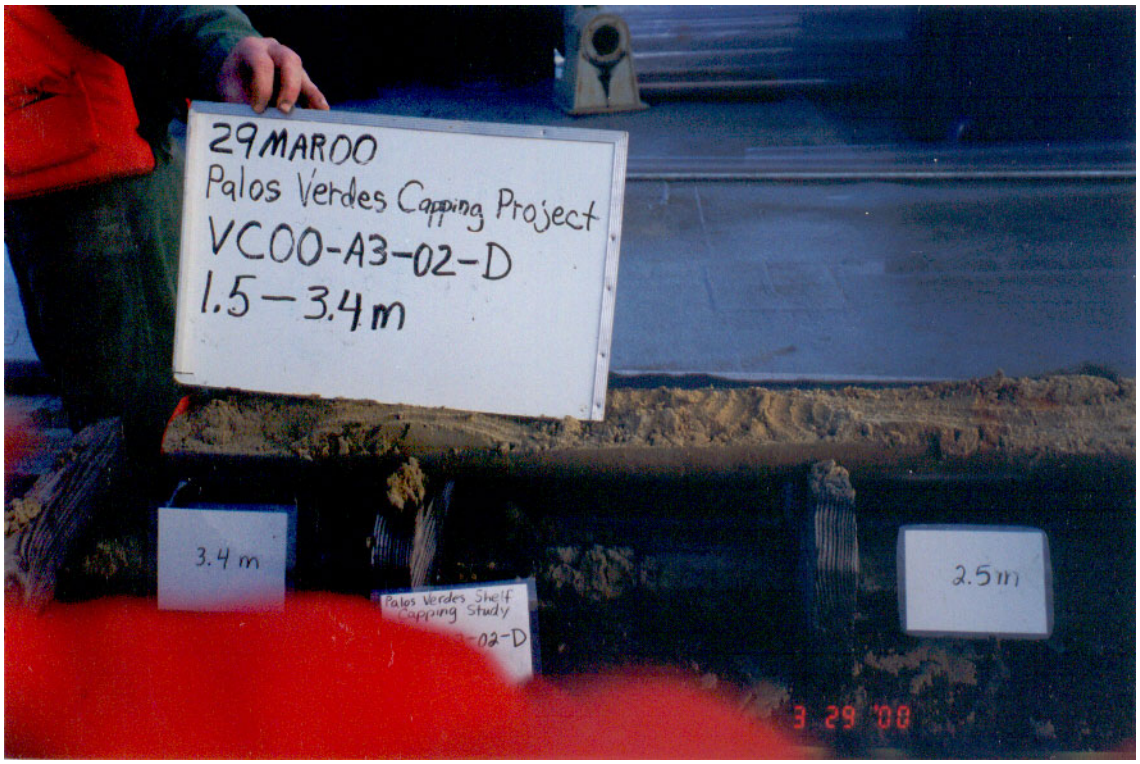

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Geomatrix Picture 120. 120

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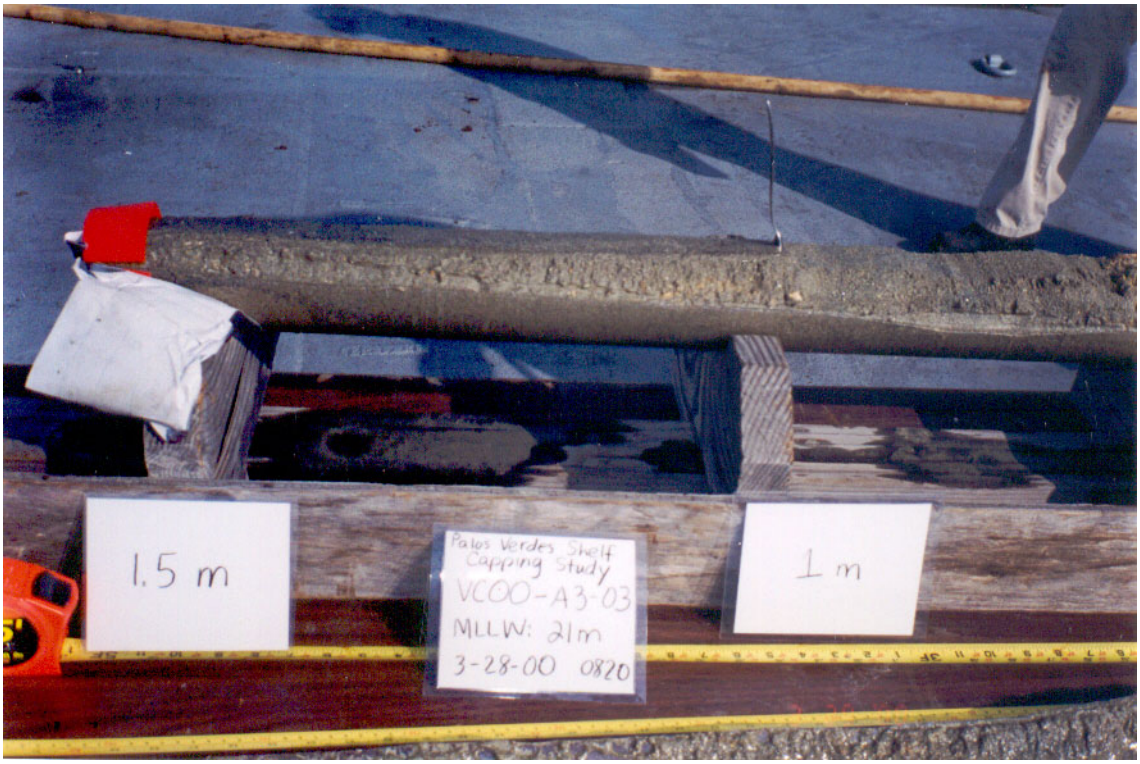

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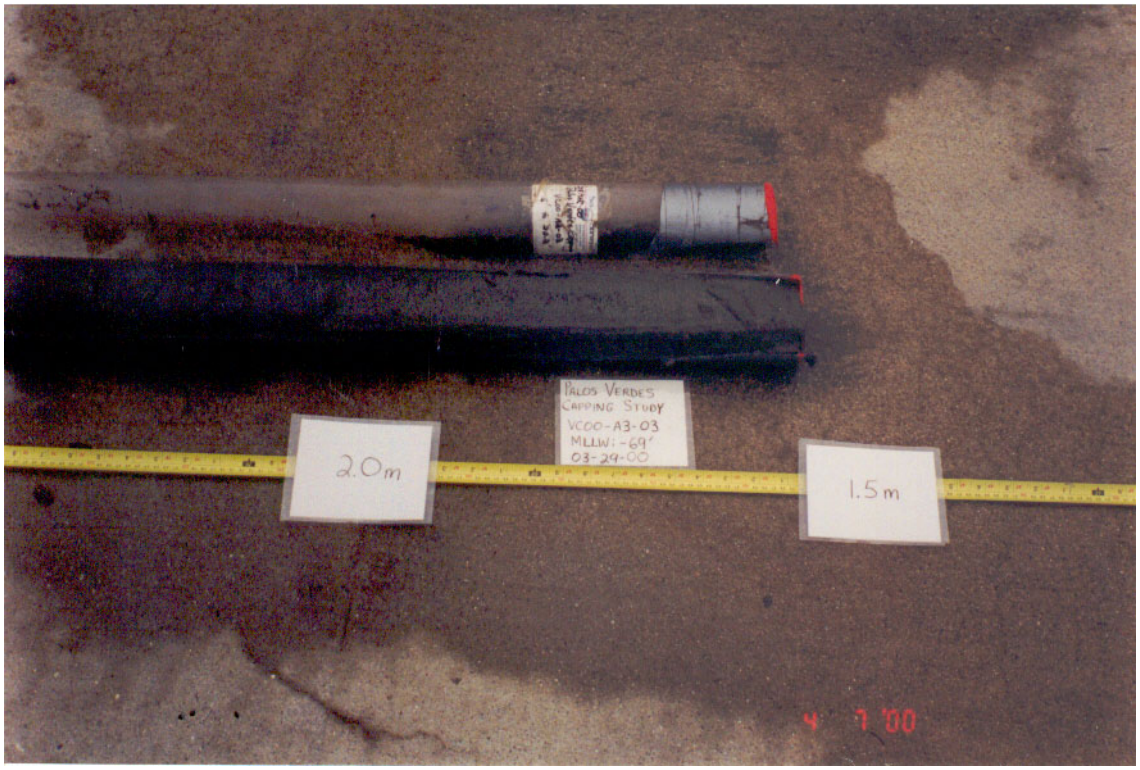

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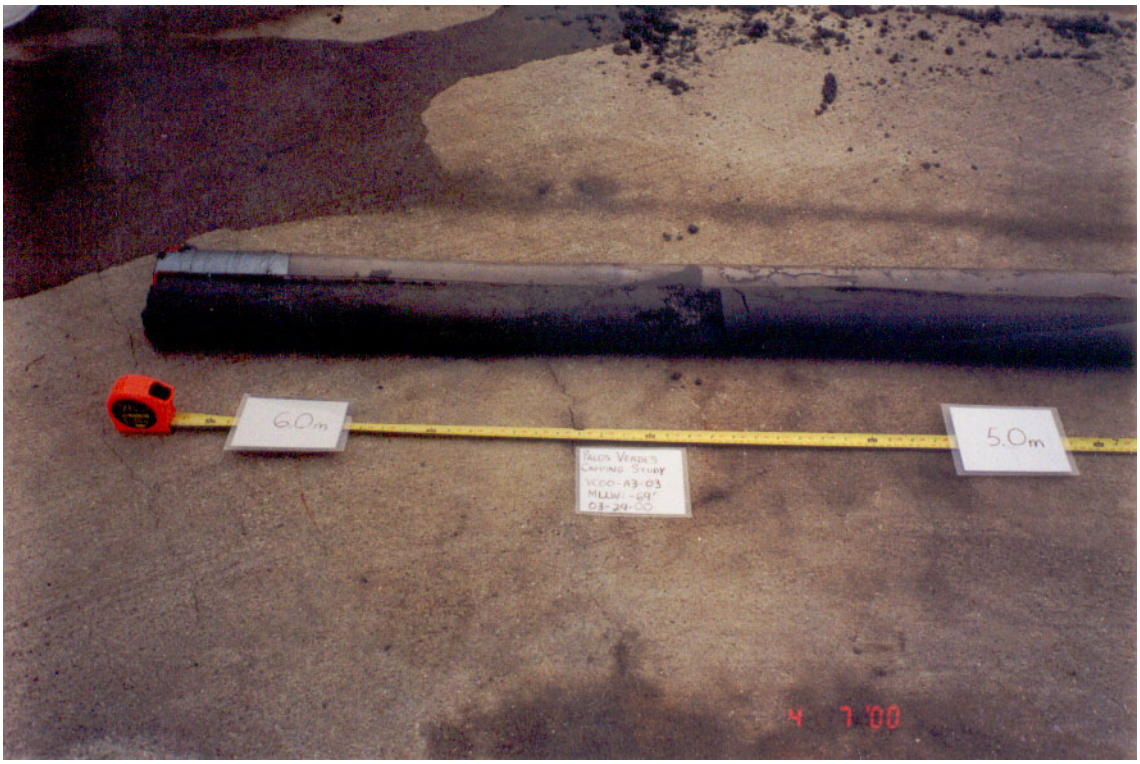
Geomatrix Picture 124. 124

Geomatrix Picture 125. 125

Geomatrix Picture 126. 126



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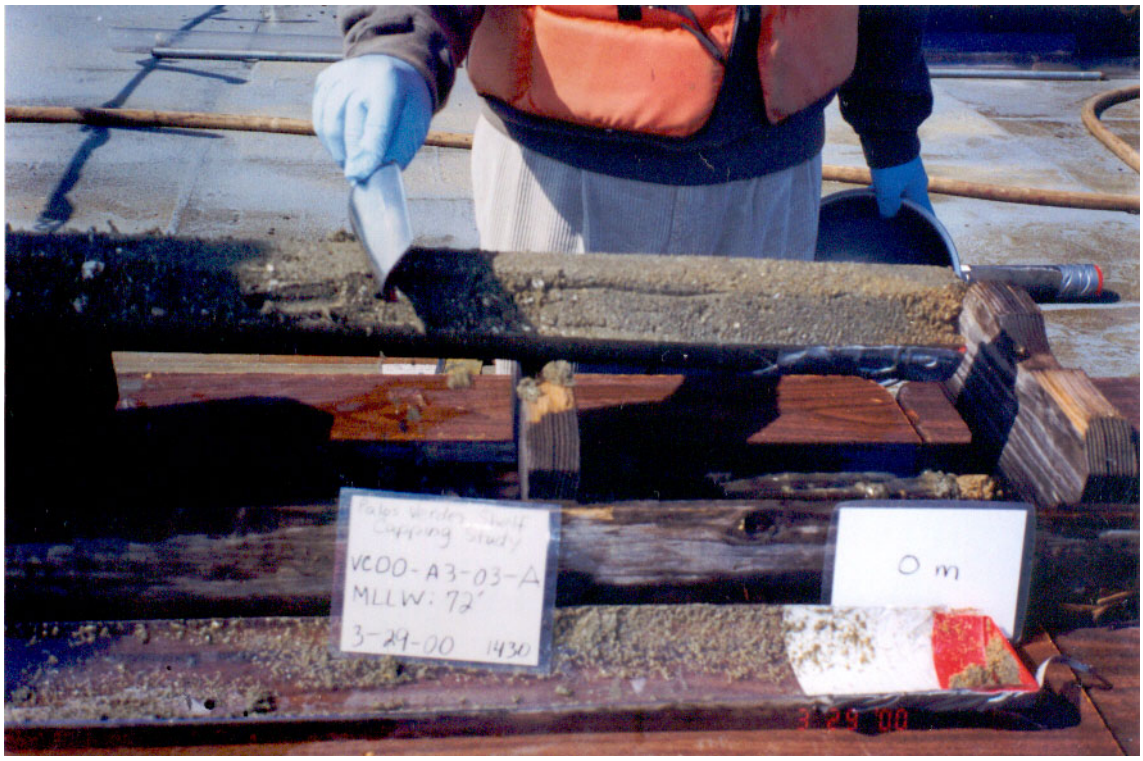

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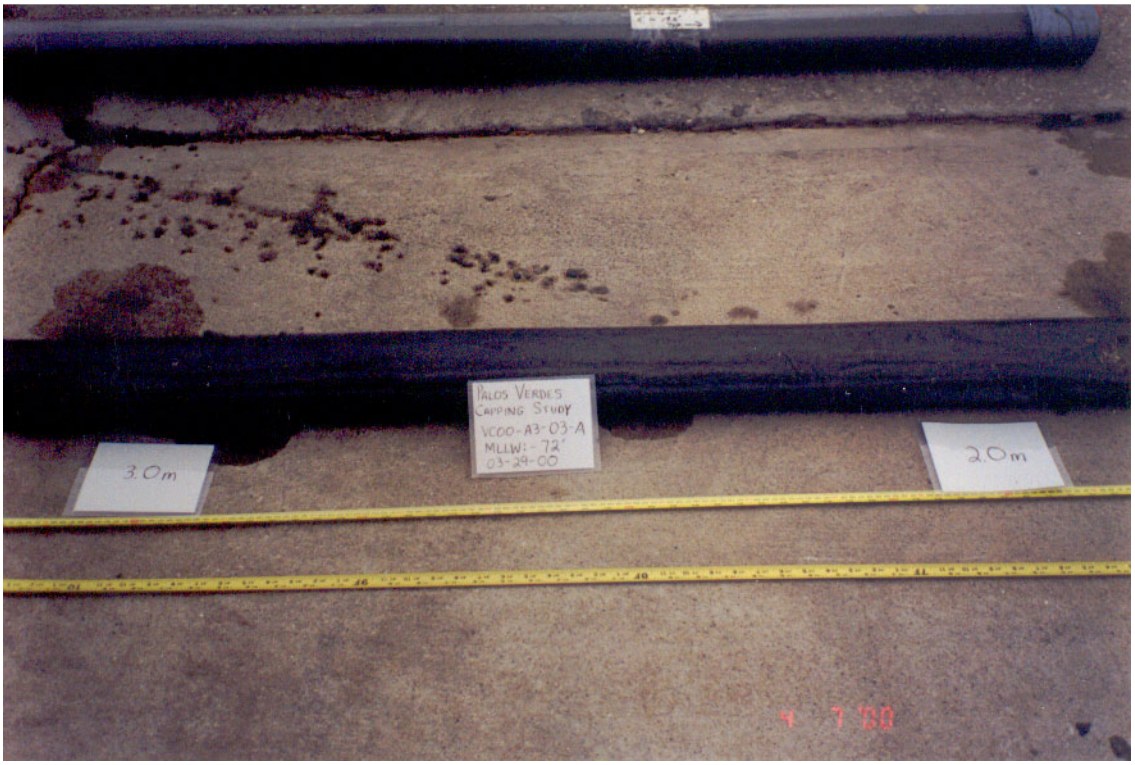

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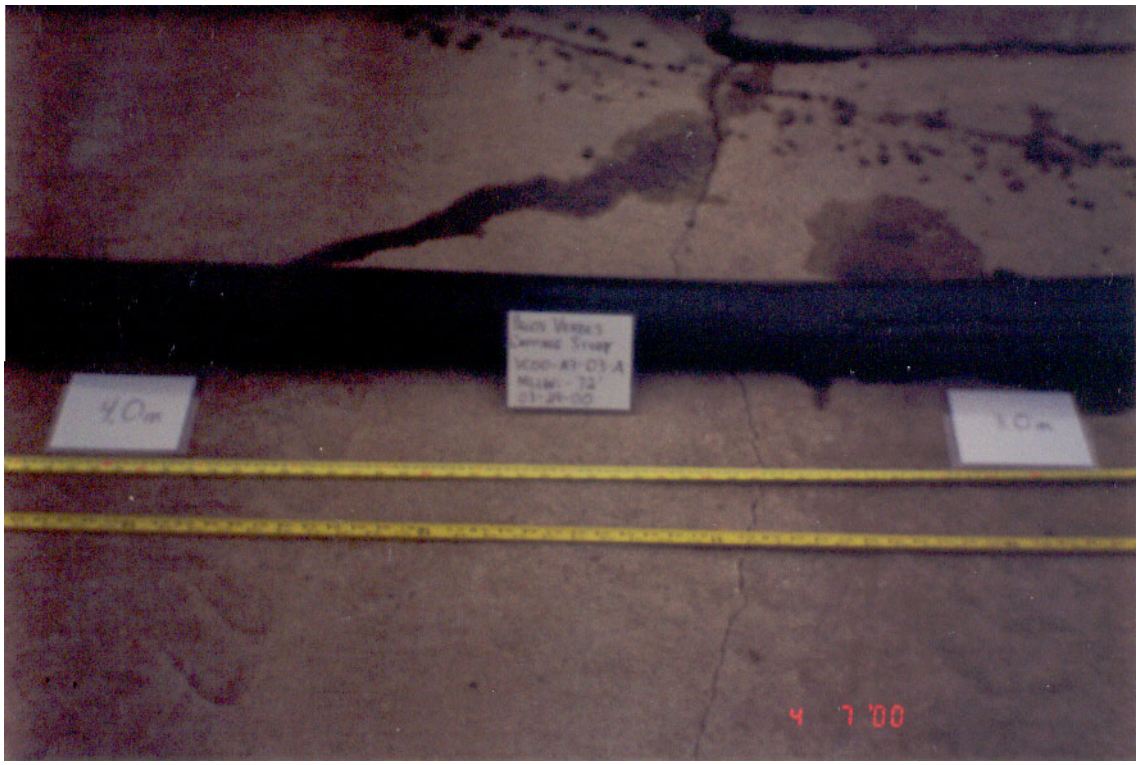

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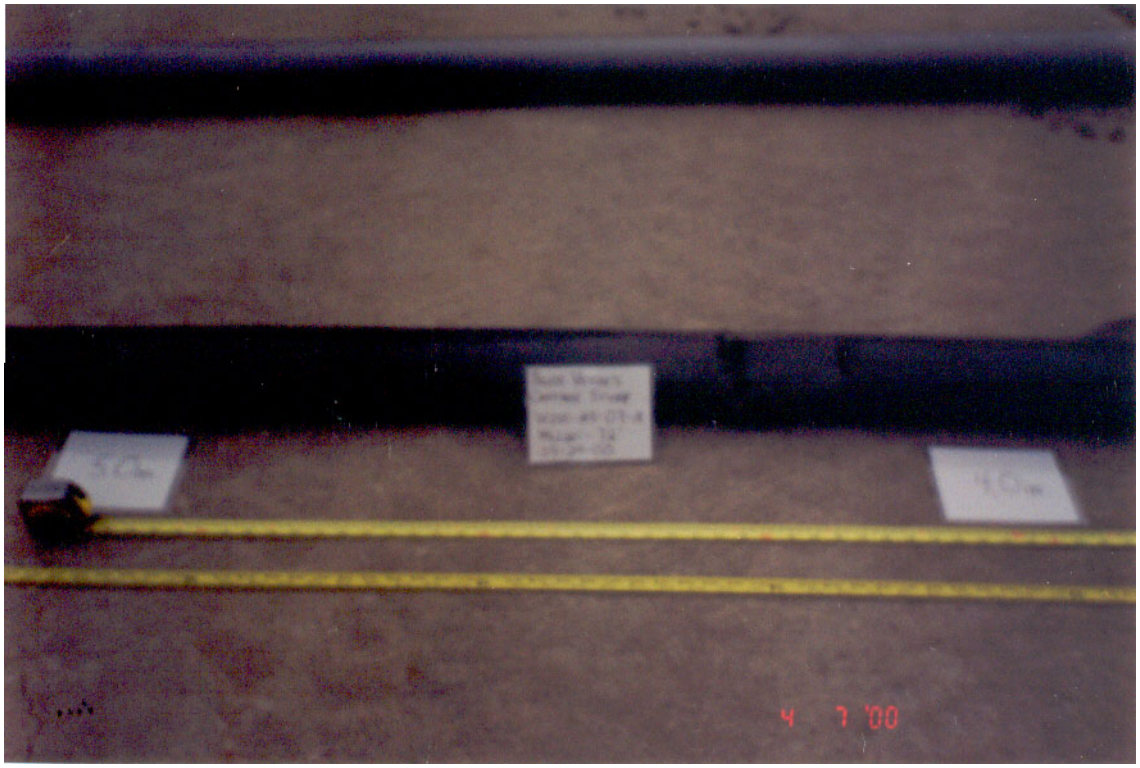

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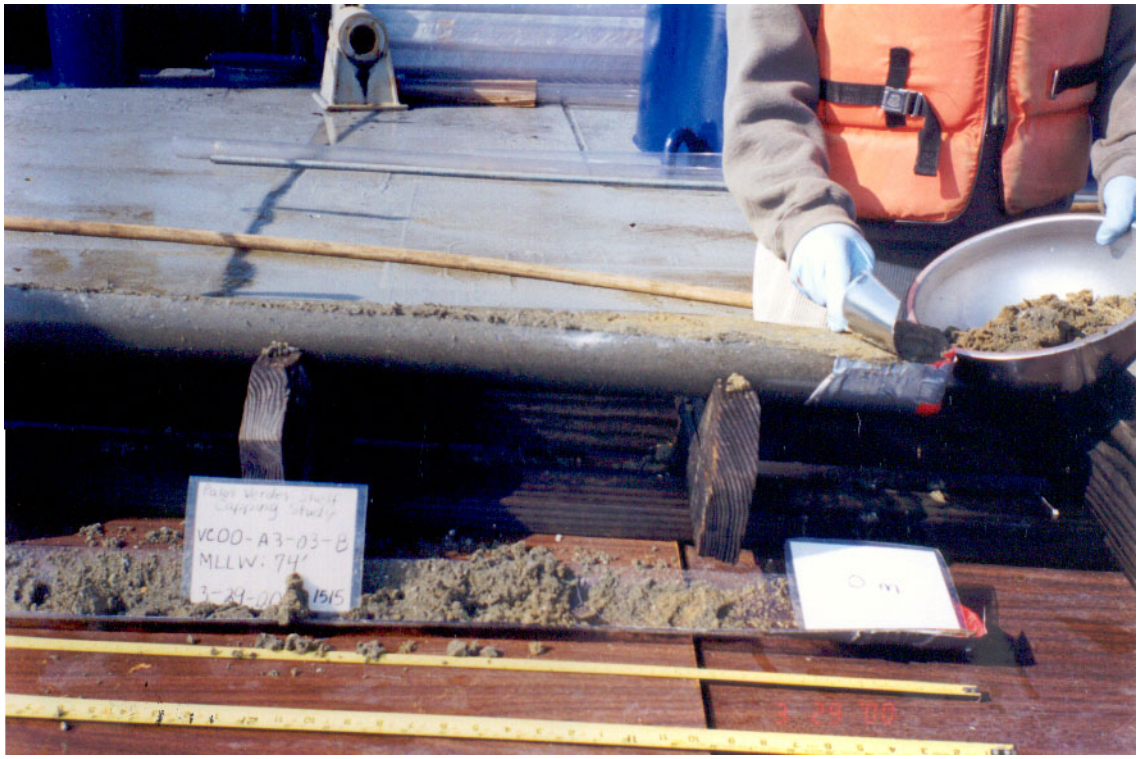

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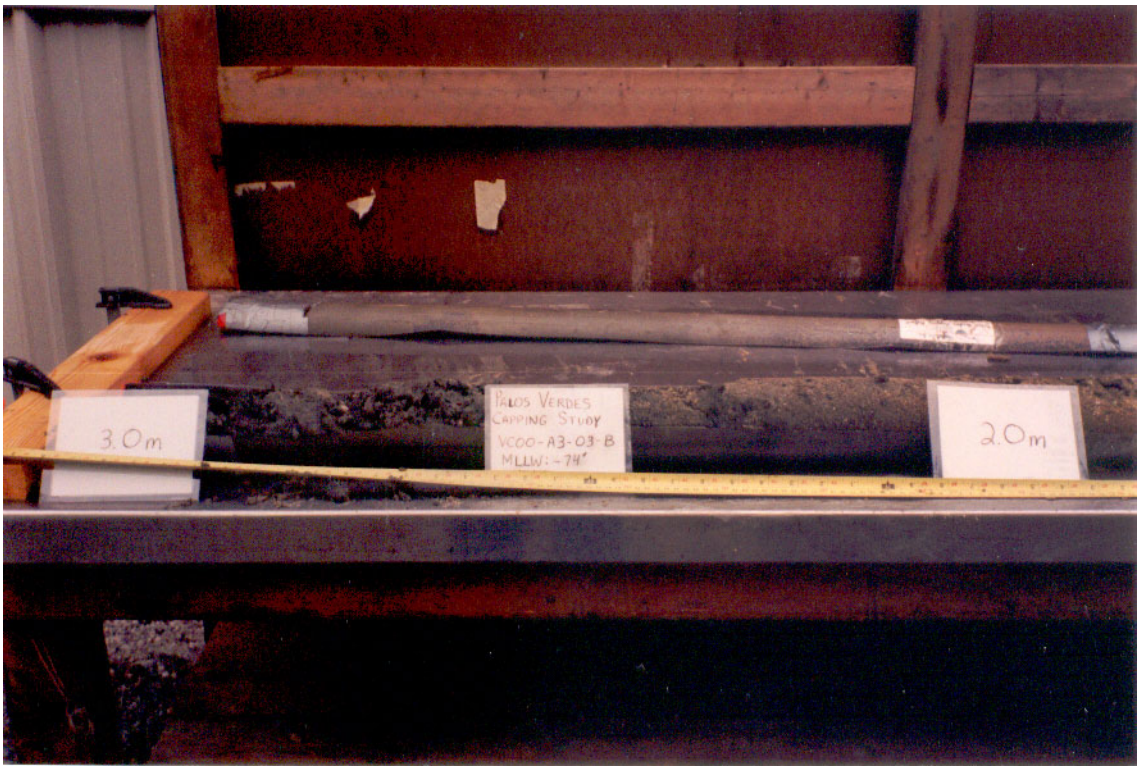
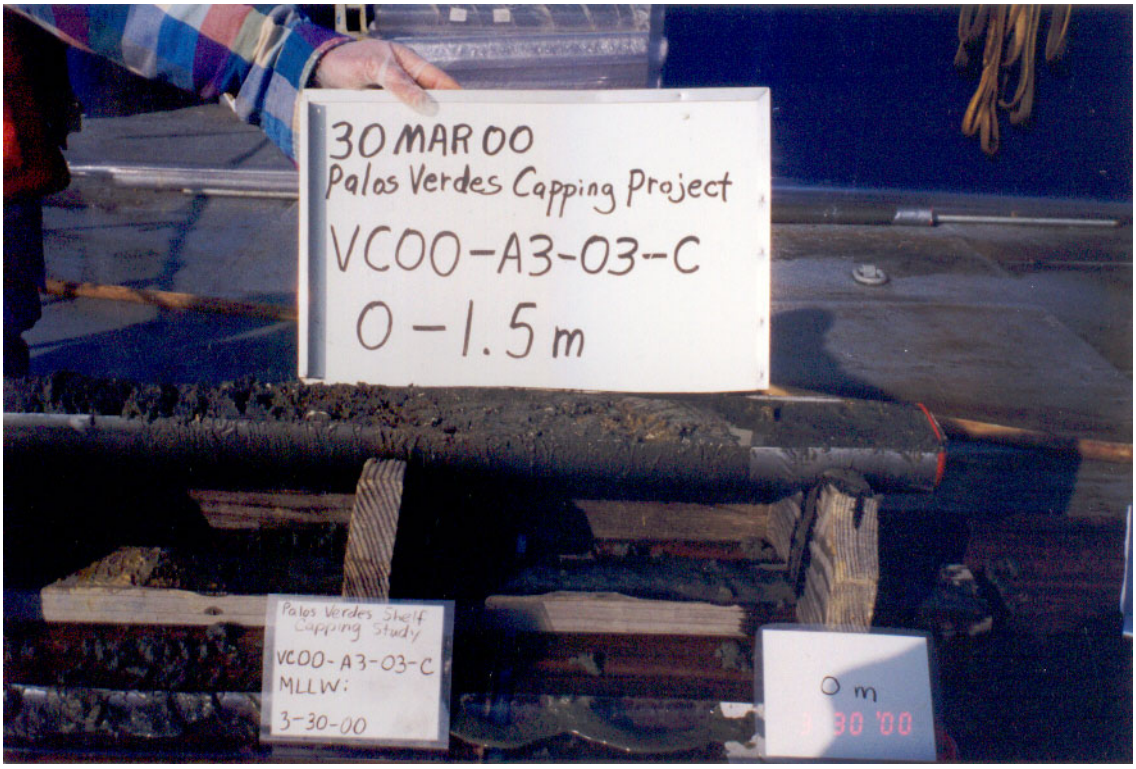
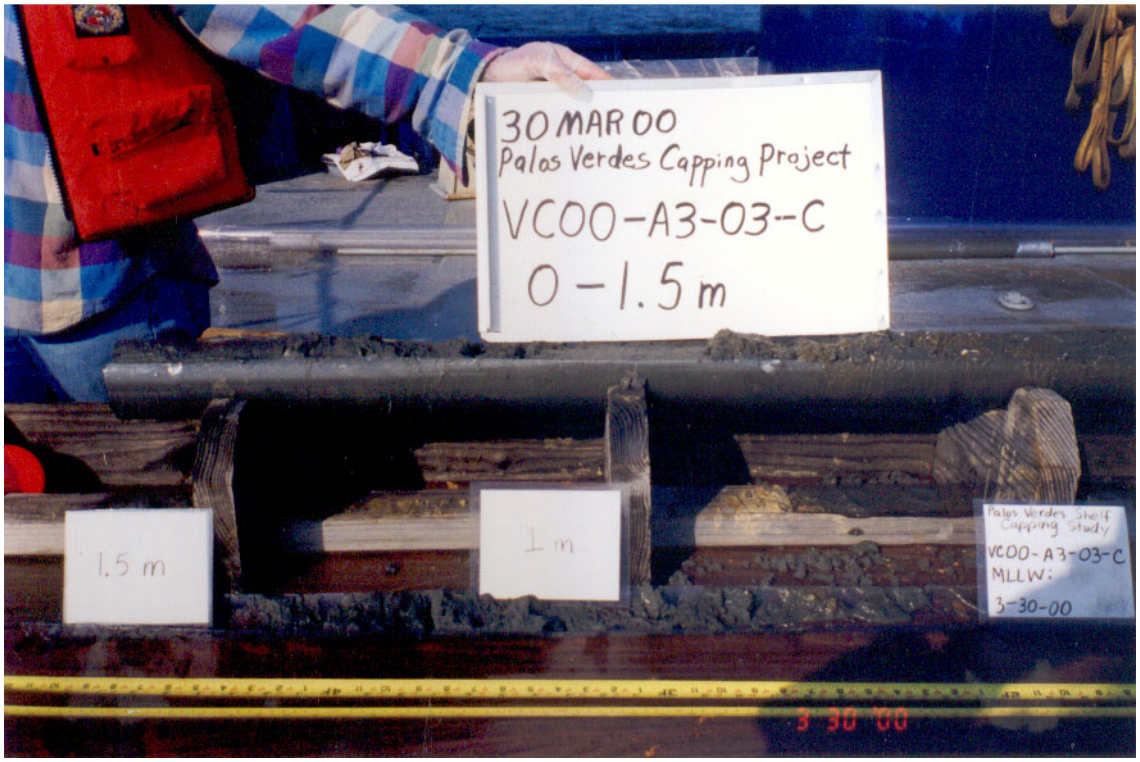


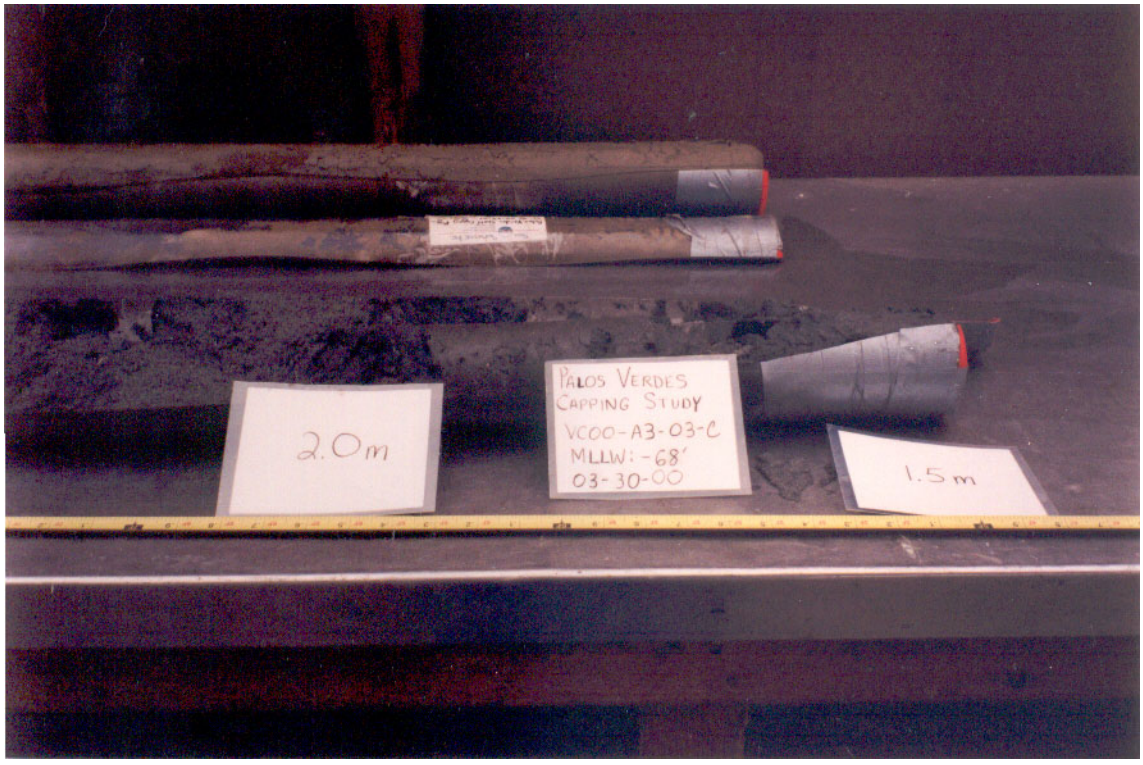
Geomatrix Picture 139. 139



Geomatrix Picture 140. 140



Geomatrix Picture 141. 141



Geomatrix Picture 142. 142