7E

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: CEIMIC CORP Contract: ROY WESTON

Lab Code: CEIMIC Case No.: 0291F SAS No.: _____ SDG No.: D00064

GC Column: DB5 ID: 0.53 (mm) Init. Calib. Date(s): 09/20/99 09/21/99

EPA Sample No. (PIBLK): PIBLK0D Date Analyzed : 09/28/99

Lab Sample ID (PIBLK): PIBLK0D Time Analyzed : 0048

EPA Sample No. (INDA): INDAM0C Date Analyzed : 09/28/99

Lab Sample ID (INDA): INDAM0C Time Analyzed : 0123

INDIVIDUAL MIX A COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
alpha-BHC	5.99	5.94	6.04	0.0183	0.0200	-8.5
gamma-BHC (Lindane)	6.90	6.85	6.95	0.0184	0.0200	-8.0
Heptachlor	9.28	9.24	9.34	0.0185	0.0200	-7.5
Endosulfan I	13.48	13.42	13.56	0.0190	0.0200	-5.0
Dieldrin	14.54	14.48	14.62	0.0377	0.0400	-5.8
Endrin	15.45	15.39	15.53	0.0357	0.0400	-10.8
4,4'-DDD	16.05	15.99	16.13	0.0366	0.0400	-8.5
4,4'-DDT	17.68	17.61	17.75	0.0351	0.0400	-12.2
Methoxychlor	20.11	20.05	20.19	0.173	0.200	-13.5
Tetrachloro-m-xylene	5.04	4.99	5.09	0.0193	0.0200	-3.5
Decachlorobiphenyl	28.25	28.16	28.36	0.0364	0.0400	-9.0

EPA Sample No. (INDB): INDBM0C Date Analyzed : 09/28/99

Lab Sample ID (INDB): INDBM0C Time Analyzed : 0158

INDIVIDUAL MIX B COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
beta-BHC	6.63	6.58	6.68	0.0201	0.0200	0.5
delta-BHC	7.50	7.45	7.55	0.0193	0.0200	-3.5
Aldrin	10.57	10.53	10.63	0.0204	0.0200	2.0
Heptachlor epoxide	12.03	11.96	12.10	0.0205	0.0200	2.5
4,4'-DDE	14.32	14.25	14.39	0.0416	0.0400	4.0
Endosulfan II	15.79	15.72	15.86	0.0407	0.0400	1.8
Endosulfan sulfate	17.57	17.51	17.65	0.0399	0.0400	-0.2
Endrin ketone	19.60	19.54	19.68	0.0400	0.0400	0.0
Endrin aldehyde	16.55	16.49	16.63	0.0465	0.0400	16.2
alpha-Chlordane	13.57	13.51	13.65	0.0205	0.0200	2.5
gamma-Chlordane	12.95	12.89	13.03	0.0201	0.0200	0.5
Tetrachloro-m-xylene	5.04	4.99	5.09	0.0198	0.0200	-1.0
Decachlorobiphenyl	28.25	28.16	28.36	0.0392	0.0400	-2.0

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PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: CEIMIC CORP Contract: ROY WESTON

Lab Code: CEIMIC Case No.: 0291F SAS No.: _____ SDG No.: D00064

GC Column: DB5 ID: 0.53(mm) Init. Calib. Date(s): 09/20/99 09/21/99

EPA Sample No. (PIBLK): PIBLK0G Date Analyzed : 10/06/99

Lab Sample ID (PIBLK): PIBLK0G Time Analyzed : 1737

EPA Sample No. (INDA): INDAM0D Date Analyzed : 10/06/99

Lab Sample ID (INDA): INDAM0D Time Analyzed : 1812

INDIVIDUAL MIX A COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
alpha-BHC	5.99	5.94	6.04	0.0193	0.0200	-3.5
gamma-BHC (Lindane)	6.90	6.85	6.95	0.0194	0.0200	-3.0
Heptachlor	9.28	9.24	9.34	0.0178	0.0200	-11.0
Endosulfan I	13.48	13.42	13.56	0.0186	0.0200	-7.0
Dieldrin	14.54	14.48	14.62	0.0377	0.0400	-5.8
Endrin	15.45	15.39	15.53	0.0407	0.0400	1.8
4,4'-DDD	16.05	15.99	16.13	0.0371	0.0400	-7.2
4,4'-DDT	17.68	17.61	17.75	0.0361	0.0400	-9.8
Methoxychlor	20.11	20.05	20.19	0.193	0.200	-3.5
Tetrachloro-m-xylene	5.04	4.99	5.09	0.0194	0.0200	-3.0
Decachlorobiphenyl	28.25	28.16	28.36	0.0355	0.0400	-11.2

EPA Sample No. (INDB): INDBM0D Date Analyzed : 10/06/99

Lab Sample ID (INDB): INDBM0D Time Analyzed : 1847

INDIVIDUAL MIX B COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
beta-BHC	6.62	6.58	6.68	0.0194	0.0200	-3.0
delta-BHC	7.49	7.45	7.55	0.0196	0.0200	-2.0
Aldrin	10.56	10.53	10.63	0.0181	0.0200	-9.5
Heptachlor epoxide	12.02	11.96	12.10	0.0190	0.0200	-5.0
4,4'-DDE	14.31	14.25	14.39	0.0384	0.0400	-4.0
Endosulfan II	15.78	15.72	15.86	0.0373	0.0400	-6.8
Endosulfan sulfate	17.56	17.51	17.65	0.0359	0.0400	-10.2
Endrin ketone	19.59	19.54	19.68	0.0396	0.0400	-1.0
Endrin aldehyde	16.54	16.49	16.63	0.0337	0.0400	-15.8
alpha-Chlordane	13.56	13.51	13.65	0.0189	0.0200	-5.5
gamma-Chlordane	12.95	12.89	13.03	0.0189	0.0200	-5.5
Tetrachloro-m-xylene	5.03	4.99	5.09	0.0185	0.0200	-7.5
Decachlorobiphenyl	28.24	28.16	28.36	0.0385	0.0400	-3.8

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PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: CEIMIC CORP Contract: ROY WESTON

Lab Code: CEIMIC Case No.: 0291F SAS No.: _____ SDG No.: D00064

GC Column: DB5 ID: 0.53(mm) Init. Calib. Date(s): 09/20/99 09/21/99

EPA Sample No. (PIBLK): PIBLK0J Date Analyzed : 10/07/99

Lab Sample ID (PIBLK): PIBLK0J Time Analyzed : 1531

EPA Sample No. (INDA): INDAM0E Date Analyzed : 10/07/99

Lab Sample ID (INDA): INDAM0E Time Analyzed : 1606

INDIVIDUAL MIX A COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
alpha-BHC	5.99	5.94	6.04	0.0189	0.0200	-5.5
gamma-BHC (Lindane)	6.89	6.85	6.95	0.0190	0.0200	-5.0
Heptachlor	9.28	9.24	9.34	0.0182	0.0200	-9.0
Endosulfan I	13.48	13.42	13.56	0.0186	0.0200	-7.0
Dieldrin	14.54	14.48	14.62	0.0376	0.0400	-6.0
Endrin	15.45	15.39	15.53	0.0388	0.0400	-3.0
4,4'-DDD	16.05	15.99	16.13	0.0362	0.0400	-9.5
4,4'-DDT	17.67	17.61	17.75	0.0383	0.0400	-4.2
Methoxychlor	20.11	20.05	20.19	0.197	0.200	-1.5
Tetrachloro-m-xylene	5.04	4.99	5.09	0.0192	0.0200	-4.0
Decachlorobiphenyl	28.25	28.16	28.36	0.0380	0.0400	-5.0

EPA Sample No. (INDB): INDBM0E Date Analyzed : 10/07/99

Lab Sample ID (INDB): INDBM0E Time Analyzed : 1641

INDIVIDUAL MIX B COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
beta-BHC	6.62	6.58	6.68	0.0188	0.0200	-6.0
delta-BHC	7.49	7.45	7.55	0.0184	0.0200	-8.0
Aldrin	10.56	10.53	10.63	0.0179	0.0200	-10.5
Heptachlor epoxide	12.02	11.96	12.10	0.0189	0.0200	-5.5
4,4'-DDE	14.31	14.25	14.39	0.0375	0.0400	-6.2
Endosulfan II	15.78	15.72	15.86	0.0366	0.0400	-8.5
Endosulfan sulfate	17.56	17.51	17.65	0.0351	0.0400	-12.2
Endrin ketone	19.59	19.54	19.68	0.0383	0.0400	-4.2
Endrin aldehyde	16.54	16.49	16.63	0.0310	0.0400	-22.5
alpha-Chlordane	13.56	13.51	13.65	0.0187	0.0200	-6.5
gamma-Chlordane	12.94	12.89	13.03	0.0188	0.0200	-6.0
Tetrachloro-m-xylene	5.03	4.99	5.09	0.0180	0.0200	-10.0
Decachlorobiphenyl	28.24	28.16	28.36	0.0379	0.0400	-5.2

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PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: CEIMIC CORP Contract: ROY WESTON

Lab Code: CEIMIC Case No.: 0291F SAS No.: _____ SDG No.: D00064

GC Column: DB1701 ID: 0.53 (mm) Init. Calib. Date(s): 09/20/99 09/21/99

EPA Sample No. (PIBLK): PIBLK1B Date Analyzed : 09/21/99

Lab Sample ID (PIBLK): PIBLK1B Time Analyzed : 1200

EPA Sample No. (INDA): INDAM1B Date Analyzed : 09/21/99

Lab Sample ID (INDA): INDAM1B Time Analyzed : 1235

INDIVIDUAL MIX A COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
alpha-BHC	5.43	5.38	5.48	0.0203	0.0200	1.5
gamma-BHC (Lindane)	6.51	6.46	6.56	0.0202	0.0200	1.0
Heptachlor	7.27	7.22	7.32	0.0200	0.0200	0.0
Endosulfan I	11.48	11.41	11.55	0.0204	0.0200	2.0
Dieldrin	12.87	12.80	12.94	0.0406	0.0400	1.5
Endrin	13.66	13.60	13.74	0.0399	0.0400	-0.2
4,4'-DDD	15.43	15.36	15.50	0.0409	0.0400	2.2
4,4'-DDT	16.18	16.11	16.25	0.0396	0.0400	-1.0
Methoxychlor	18.83	18.76	18.90	0.198	0.200	-1.0
Tetrachloro-m-xylene	3.55	3.50	3.60	0.0202	0.0200	1.0
Decachlorobiphenyl	24.03	23.92	24.12	0.0408	0.0400	2.0

EPA Sample No. (INDB): INDBM1B Date Analyzed : 09/21/99

Lab Sample ID (INDB): INDBM1B Time Analyzed : 1311

INDIVIDUAL MIX B COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
beta-BHC	8.72	8.67	8.77	0.0206	0.0200	3.0
delta-BHC	9.59	9.54	9.64	0.0205	0.0200	2.5
Aldrin	8.19	8.14	8.24	0.0206	0.0200	3.0
Heptachlor epoxide	10.44	10.37	10.51	0.0207	0.0200	3.5
4,4'-DDE	12.34	12.27	12.41	0.0412	0.0400	3.0
Endosulfan II	15.54	15.47	15.61	0.0413	0.0400	3.2
Endosulfan sulfate	18.51	18.43	18.57	0.0411	0.0400	2.8
Endrin ketone	20.19	20.12	20.26	0.0414	0.0400	3.5
Endrin aldehyde	17.19	17.12	17.26	0.0375	0.0400	-6.2
alpha-Chlordane	11.88	11.81	11.95	0.0206	0.0200	3.0
gamma-Chlordane	11.64	11.57	11.71	0.0206	0.0200	3.0
Tetrachloro-m-xylene	3.55	3.50	3.60	0.0189	0.0200	-5.5
Decachlorobiphenyl	24.03	23.92	24.12	0.0402	0.0400	0.5

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PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: CEIMIC CORP Contract: ROY WESTON

Lab Code: CEIMIC Case No.: 0291F SAS No.: _____ SDG No.: D00064

GC Column: DB1701 ID: 0.53 (mm) Init. Calib. Date(s): 09/20/99 09/21/99

EPA Sample No. (PIBLK): PIBLK1D Date Analyzed : 09/28/99

Lab Sample ID (PIBLK): PIBLK1D Time Analyzed : 0048

EPA Sample No. (INDA): INDAM1C Date Analyzed : 09/28/99

Lab Sample ID (INDA): INDAM1C Time Analyzed : 0123

INDIVIDUAL MIX A COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
alpha-BHC	5.42	5.38	5.48	0.0191	0.0200	-4.5
gamma-BHC (Lindane)	6.50	6.46	6.56	0.0190	0.0200	-5.0
Heptachlor	7.26	7.22	7.32	0.0204	0.0200	2.0
Endosulfan I	11.47	11.41	11.55	0.0198	0.0200	-1.0
Dieldrin	12.86	12.80	12.94	0.0399	0.0400	-0.2
Endrin	13.66	13.60	13.74	0.0375	0.0400	-6.2
4,4'-DDD	15.42	15.36	15.50	0.0405	0.0400	1.2
4,4'-DDT	16.17	16.11	16.25	0.0388	0.0400	-3.0
Methoxychlor	18.82	18.76	18.90	0.196	0.200	-2.0
Tetrachloro-m-xylene	3.54	3.50	3.60	0.0198	0.0200	-1.0
Decachlorobiphenyl	24.02	23.92	24.12	0.0396	0.0400	-1.0

EPA Sample No. (INDB): INDBM1C Date Analyzed : 09/28/99

Lab Sample ID (INDB): INDBM1C Time Analyzed : 0158

INDIVIDUAL MIX B COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
beta-BHC	8.72	8.67	8.77	0.0205	0.0200	2.5
delta-BHC	9.58	9.54	9.64	0.0197	0.0200	-1.5
Aldrin	8.18	8.14	8.24	0.0215	0.0200	7.5
Heptachlor epoxide	10.43	10.37	10.51	0.0214	0.0200	7.0
4,4'-DDE	12.33	12.27	12.41	0.0435	0.0400	8.8
Endosulfan II	15.53	15.47	15.61	0.0412	0.0400	3.0
Endosulfan sulfate	18.50	18.43	18.57	0.0437	0.0400	9.2
Endrin ketone	20.18	20.12	20.26	0.0401	0.0400	0.2
Endrin aldehyde	17.18	17.12	17.26	0.0491	0.0400	22.8
alpha-Chlordane	11.87	11.81	11.95	0.0216	0.0200	8.0
gamma-Chlordane	11.64	11.57	11.71	0.0212	0.0200	6.0
Tetrachloro-m-xylene	3.54	3.50	3.60	0.0196	0.0200	-2.0
Decachlorobiphenyl	24.02	23.92	24.12	0.0426	0.0400	6.5

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PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: CEIMIC CORP Contract: ROY WESTON

Lab Code: CEIMIC Case No.: 0291F SAS No.: _____ SDG No.: D00064

GC Column: DB1701 ID: 0.53 (mm) Init. Calib. Date(s): 09/20/99 09/21/99

EPA Sample No. (PIBLK): PIBLK1G Date Analyzed : 10/06/99

Lab Sample ID (PIBLK): PIBLK1G Time Analyzed : 1737

EPA Sample No. (INDA): INDAM1D Date Analyzed : 10/06/99

Lab Sample ID (INDA): INDAM1D Time Analyzed : 1812

INDIVIDUAL MIX A COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
alpha-BHC	5.42	5.38	5.48	0.0212	0.0200	6.0
gamma-BHC (Lindane)	6.50	6.46	6.56	0.0208	0.0200	4.0
Heptachlor	7.26	7.22	7.32	0.0196	0.0200	-2.0
Endosulfan I	11.47	11.41	11.55	0.0192	0.0200	-4.0
Dieldrin	12.86	12.80	12.94	0.0381	0.0400	-4.8
Endrin	13.65	13.60	13.74	0.0405	0.0400	1.2
4,4'-DDD	15.41	15.36	15.50	0.0376	0.0400	-6.0
4,4'-DDT	16.17	16.11	16.25	0.0366	0.0400	-8.5
Methoxychlor	18.82	18.76	18.90	0.192	0.200	-4.0
Tetrachloro-m-xylene	3.54	3.50	3.60	0.0197	0.0200	-1.5
Decachlorobiphenyl	24.01	23.92	24.12	0.0348	0.0400	-13.0

EPA Sample No. (INDB): INDBM1D Date Analyzed : 10/06/99

Lab Sample ID (INDB): INDBM1D Time Analyzed : 1847

INDIVIDUAL MIX B COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
beta-BHC	8.71	8.67	8.77	0.0203	0.0200	1.5
delta-BHC	9.57	9.54	9.64	0.0210	0.0200	5.0
Aldrin	8.18	8.14	8.24	0.0191	0.0200	-4.5
Heptachlor epoxide	10.43	10.37	10.51	0.0198	0.0200	-1.0
4,4'-DDE	12.32	12.27	12.41	0.0384	0.0400	-4.0
Endosulfan II	15.52	15.47	15.61	0.0377	0.0400	-5.8
Endosulfan sulfate	18.49	18.43	18.57	0.0368	0.0400	-8.0
Endrin ketone	20.17	20.12	20.26	0.0395	0.0400	-1.2
Endrin aldehyde	17.17	17.12	17.26	0.0336	0.0400	-16.0
alpha-Chlordane	11.86	11.81	11.95	0.0193	0.0200	-3.5
gamma-Chlordane	11.63	11.57	11.71	0.0192	0.0200	-4.0
Tetrachloro-m-xylene	3.54	3.50	3.60	0.0184	0.0200	-8.0
Decachlorobiphenyl	24.01	23.92	24.12	0.0363	0.0400	-9.2

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PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: CEIMIC CORP Contract: ROY WESTON

Lab Code: CEIMIC Case No.: 0291F SAS No.: _____ SDG No.: D00064

GC Column: DB1701 ID: 0.53 (mm) Init. Calib. Date(s): 09/20/99 09/21/99

EPA Sample No. (PIBLK): PIBLK1J Date Analyzed : 10/07/99

Lab Sample ID (PIBLK): PIBLK1J Time Analyzed : 1531

EPA Sample No. (INDA): INDAM1E Date Analyzed : 10/07/99

Lab Sample ID (INDA): INDAM1E Time Analyzed : 1606

INDIVIDUAL MIX A COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
alpha-BHC	5.42	5.38	5.48	0.0216	0.0200	8.0
gamma-BHC (Lindane)	6.50	6.46	6.56	0.0214	0.0200	7.0
Heptachlor	7.26	7.22	7.32	0.0205	0.0200	2.5
Endosulfan I	11.47	11.41	11.55	0.0203	0.0200	1.5
Dieldrin	12.86	12.80	12.94	0.0401	0.0400	0.2
Endrin	13.65	13.60	13.74	0.0411	0.0400	2.8
4,4'-DDD	15.42	15.36	15.50	0.0400	0.0400	0.0
4,4'-DDT	16.17	16.11	16.25	0.0395	0.0400	-1.2
Methoxychlor	18.82	18.76	18.90	0.198	0.200	-1.0
Tetrachloro-m-xylene	3.54	3.50	3.60	0.0203	0.0200	1.5
Decachlorobiphenyl	24.01	23.92	24.12	0.0365	0.0400	-8.8

EPA Sample No. (INDB): INDBM1E Date Analyzed : 10/07/99

Lab Sample ID (INDB): INDBM1E Time Analyzed : 1641

INDIVIDUAL MIX B COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
beta-BHC	8.71	8.67	8.77	0.0206	0.0200	3.0
delta-BHC	9.57	9.54	9.64	0.0208	0.0200	4.0
Aldrin	8.17	8.14	8.24	0.0195	0.0200	-2.5
Heptachlor epoxide	10.42	10.37	10.51	0.0205	0.0200	2.5
4,4'-DDE	12.32	12.27	12.41	0.0397	0.0400	-0.8
Endosulfan II	15.52	15.47	15.61	0.0389	0.0400	-2.8
Endosulfan sulfate	18.48	18.43	18.57	0.0375	0.0400	-6.2
Endrin ketone	20.17	20.12	20.26	0.0397	0.0400	-0.8
Endrin aldehyde	17.17	17.12	17.26	0.0327	0.0400	-18.2
alpha-Chlordane	11.86	11.81	11.95	0.0200	0.0200	0.0
gamma-Chlordane	11.63	11.57	11.71	0.0198	0.0200	-1.0
Tetrachloro-m-xylene	3.54	3.50	3.60	0.0185	0.0200	-7.5
Decachlorobiphenyl	24.01	23.92	24.12	0.0370	0.0400	-7.5

8D
PESTICIDE ANALYTICAL SEQUENCE

Lab Name: CEIMIC CORP Contract: ROY WESTON

Lab Code: CEIMIC Case No.: 0291F SAS No.: _____ SDG No.: D00064

GC Column: DB5 ID: 0.53(mm) Init. Calib. Date(s): 09/20/99 09/21/99

Instrument ID: AD19_1

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
TCX: 5.04 DCB: 28.26

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	DCB RT #
~~01~~	~~PIBLK00~~	~~PIBLK00~~	~~09/20/99~~	~~1604~~	~~5.05~~	~~28.28~~
02	RESC0A	RESC0A	09/20/99	1605	5.06	28.29
03	PEM0A	PEM0A	09/20/99	1640	5.05	28.28
04	AR16600A	AR16600A	09/20/99	1715	5.05	28.28
05	AR12210A	AR12210A	09/20/99	1750	5.05	28.29
06	AR12320A	AR12320A	09/20/99	1826	5.05	28.29
07	AR12420A	AR12420A	09/20/99	1901	5.04	28.27
08	AR12480A	AR12480A	09/20/99	1936	5.04	28.27
09	AR12540A	AR12540A	09/20/99	2011	5.04	28.27
10	TOXAPH0A	TOXAPH0A	09/20/99	2046	5.04	28.28
11	INDAL0A	INDAL0A	09/20/99	2121	5.04	28.26
12	INDBL0A	INDBL0A	09/20/99	2157	5.04	28.25
13	INDAM0A	INDAM0A	09/20/99	2232	5.04	28.26
14	INDBM0A	INDBM0A	09/20/99	2307	5.04	28.28
15	INDAH0A	INDAH0A	09/20/99	2342	5.04	28.27
16	INDBH0A	INDBH0A	09/21/99	0017	5.04	28.27
17	PIBLK0A	PIBLK0A	09/21/99	0052	5.05	28.28
18	PEM0B	PEM0B	09/21/99	0128	5.04	28.27
19	PBLK04	P0915-B9	09/21/99	0458	5.03	28.25
20	PLCS04	P0915-LCS9	09/21/99	0533	5.03	28.24
21	D00078	990802-15	09/21/99	0754	5.03	28.24
22	D00078DL	990802-15DL	09/21/99	0829	5.04	28.25
23	PIBLK0B	PIBLK0B	09/21/99	1200	5.05	28.29
24	INDAM0B	INDAM0B	09/21/99	1235	5.04	28.27
25	INDBM0B	INDBM0B	09/21/99	1311	5.04	28.27
26	PIBLK0C	PIBLK0C	09/27/99	1404	5.05	28.29
27	PEM0C	PEM0C	09/27/99	1439	5.05	28.31
28	PBLK01	P0914-B2	09/27/99	1514	5.05	28.30
29	PLCS01	P0914-LCS2	09/27/99	1550	5.05	28.30
30	PBLK03	P0915-B7	09/27/99	1625	5.04	28.28
31	PLCS03	P0915-LCS7	09/27/99	1700	5.05	28.29
32	PBLK02	P0914-B8	09/27/99	1956	5.04	28.28

QC LIMITS
TCX = Tetrachloro-m-xylene (+/- 0.05 MINUTES)
DCB = Decachlorobiphenyl (+/- 0.10 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

1325

8D
PESTICIDE ANALYTICAL SEQUENCE

Lab Name: CEIMIC CORP Contract: ROY_WESTON

Lab Code: CEIMIC Case No.: 0291F SAS No.: _____ SDG No.: D00064

GC Column: DB5 ID: 0.53(mm) Init. Calib. Date(s): 09/20/99 09/21/99

Instrument ID: AD19_1

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
TCX: 5.04 DCB: 28.26

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	DCB RT #
01	PLCS02	P0914-LCS8	09/27/99	2106	5.04	28.27
02	D00064	990802-01	09/27/99	2152	5.05	28.28
03	D00064MS	990802-01MS	09/27/99	2227	5.04	28.27
04	PIBLK0D	PIBLK0D	09/28/99	0048	5.04	28.26
05	INDAM0C	INDAM0C	09/28/99	0123	5.04	28.25
06	INDBM0C	INDBM0C	09/28/99	0158	5.04	28.25
07	D00064MSD	990802-01MSD	09/28/99	0234	5.04	28.25
08	D00065	990802-02	09/28/99	0309	5.04	28.24
09	D00066	990802-03	09/28/99	0419	5.04	28.25
10	D00067	990802-04	09/28/99	0454	5.03	28.25
11	D00076	990802-13	09/28/99	0604	5.03	28.24
12	D00068	990802-05	09/28/99	0640	5.03	28.24
13	D00068MS	990802-05MS	09/28/99	0750	5.03	28.24
14	D00068MSD	990802-05MSD	09/28/99	0825	5.03	28.24
15	PIBLK0E	PIBLK0E	09/28/99	1046	5.04	28.25
16	PEM0D	PEM0D	09/28/99	1121	5.04	28.26
17	PIBLK0F	PIBLK0F	10/06/99	0738	5.03	28.23
18	PEM0E	PEM0E	10/06/99	0813	5.03	28.24
19	D00069	990802-06	10/06/99	1405	5.03	28.24
20	D00070	990802-07	10/06/99	1440	5.03	28.24
21	D00071	990802-08	10/06/99	1515	5.03	28.24
22	PIBLK0G	PIBLK0G	10/06/99	1737	5.04	28.25
23	INDAM0D	INDAM0D	10/06/99	1812	5.04	28.25
24	INDBM0D	INDBM0D	10/06/99	1847	5.03	28.24
25	D00079	990802-16	10/06/99	2108	5.03	28.24
26	AR12540B	AR12540B	10/07/99	0300	5.03	28.24
27	PIBLK0H	PIBLK0H	10/07/99	0410	5.04	28.25
28	PEM0F	PEM0F	10/07/99	0445	5.03	28.25
29	PIBLK0J	PIBLK0J	10/07/99	1531	5.03	28.24
30	INDAM0E	INDAM0E	10/07/99	1606	5.04	28.25
31	INDBM0E	INDBM0E	10/07/99	1641	5.03	28.24

QC LIMITS
TCX = Tetrachloro-m-xylene (-/- 0.05 MINUTES)
DCB = Decachlorobiphenyl (-/- 0.10 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

1320

8D
PESTICIDE ANALYTICAL SEQUENCE

Lab Name: CEIMIC CORP Contract: ROY_WESTON

Lab Code: CEIMIC Case No.: 0291F SAS No.: _____ SDG No.: D00064

GC Column: DB1701 ID: 0.53 (mm) Init. Calib. Date(s): 09/20/99 09/21/99

Instrument ID: AD20_1

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
TCX: 3.55 DCB: 24.02

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	DCB RT #
~~01~~	~~PIBLK10~~	~~PIBLK10~~	~~09/20/99~~	~~1604~~	~~3.55~~	~~24.03~~
02	RESC1A	RESC1A	09/20/99	1605	3.55	24.04
03	PEM1A	PEM1A	09/20/99	1640	3.55	24.04
04	AR16601A	AR16601A	09/20/99	1715	3.55	24.04
05	AR12211A	AR12211A	09/20/99	1750	3.55	24.04
06	AR12321A	AR12321A	09/20/99	1826	3.55	24.04
07	AR12421A	AR12421A	09/20/99	1901	3.55	24.03
08	AR12481A	AR12481A	09/20/99	1936	3.55	24.03
09	AR12541A	AR12541A	09/20/99	2011	3.55	24.03
10	TOXAPH1A	TOXAPH1A	09/20/99	2046	3.55	24.03
11	INDAL1A	INDAL1A	09/20/99	2121	3.54	24.02
12	INDBL1A	INDBL1A	09/20/99	2157	3.54	24.02
13	INDAM1A	INDAM1A	09/20/99	2232	3.55	24.02
14	INDBM1A	INDBM1A	09/20/99	2307	3.55	24.03
15	INDAH1A	INDAH1A	09/20/99	2342	3.55	24.03
16	INDBH1A	INDBH1A	09/21/99	0017	3.55	24.03
17	PIBLK1A	PIBLK1A	09/21/99	0052	3.55	24.03
18	PEM1B	PEM1B	09/21/99	0128	3.55	24.03
19	PBLK04	P0915-B9	09/21/99	0458	3.54	24.01
20	PLCS04	P0915-LCS9	09/21/99	0533	3.54	24.01
21	D00078	990802-15	09/21/99	0754	3.54	24.01
22	D00078DL	990802-15DL	09/21/99	0829	3.54	24.02
23	PIBLK1B	PIBLK1B	09/21/99	1200	3.55	24.04
24	INDAM1B	INDAM1B	09/21/99	1235	3.55	24.03
25	INDBM1B	INDBM1B	09/21/99	1311	3.55	24.03
26	PIBLK1C	PIBLK1C	09/27/99	1404	3.55	24.04
27	PEM1C	PEM1C	09/27/99	1439	3.55	24.06
28	PBLK01	P0914-B2	09/27/99	1514	3.55	24.05
29	PLCS01	P0914-LCS2	09/27/99	1550	3.55	24.05
30	PBLK03	P0915-B7	09/27/99	1625	3.55	24.03
31	PLCS03	P0915-LCS7	09/27/99	1700	3.55	24.05
32	PBLK02	P0914-B8	09/27/99	1956	3.55	24.04

QC LIMITS
TCX = Tetrachloro-m-xylene (+/- 0.05 MINUTES)
DCB = Decachlorobiphenyl (+/- 0.10 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

1327

8D
PESTICIDE ANALYTICAL SEQUENCE

Lab Name: CEIMIC CORP Contract: ROY WESTON

Lab Code: CEIMIC Case No.: 0291F SAS No.: _____ SDG No.: D00064

GC Column: DB1701 ID: 0.53 (mm) Init. Calib. Date(s): 09/20/99 09/21/99

Instrument ID: AD20_1

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
TCX: 3.55 DCB: 24.02

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	DCB RT #
01	PLCS02	P0914-LCS8	09/27/99	2106	3.55	24.03
02	D00064	990802-01	09/27/99	2152	3.55	24.04
03	D00064MS	990802-01MS	09/27/99	2227	3.55	24.03
04	PIBLK1D	PIBLK1D	09/28/99	0048	3.55	24.02
05	INDAM1C	INDAM1C	09/28/99	0123	3.54	24.02
06	INDBM1C	INDBM1C	09/28/99	0158	3.54	24.02
07	D00064MSD	990802-01MSD	09/28/99	0234	3.54	24.02
08	D00065	990802-02	09/28/99	0309	3.54	24.01
09	D00066	990802-03	09/28/99	0419	3.54	24.01
10	D00067	990802-04	09/28/99	0454	3.54	24.01
11	D00076	990802-13	09/28/99	0604	3.54	24.01
12	D00068	990802-05	09/28/99	0640	3.54	24.01
13	D00068MS	990802-05MS	09/28/99	0750	3.54	24.01
14	D00068MSD	990802-05MSD	09/28/99	0825	3.54	24.01
15	PIBLK1E	PIBLK1E	09/28/99	1046	3.54	24.02
16	PEM1D	PEM1D	09/28/99	1121	3.55	24.02
17	PIBLK1F	PIBLK1F	10/06/99	0738	3.54	24.00
18	PEM1E	PEM1E	10/06/99	0813	3.54	24.01
19	D00069	990802-06	10/06/99	1405	3.54	24.01
20	D00070	990802-07	10/06/99	1440	3.54	24.01
21	D00071	990802-08	10/06/99	1515	3.54	24.00
22	PIBLK1G	PIBLK1G	10/06/99	1737	3.54	24.01
23	INDAM1D	INDAM1D	10/06/99	1812	3.54	24.01
24	INDBM1D	INDBM1D	10/06/99	1847	3.54	24.01
25	D00079	990802-16	10/06/99	2108	3.54	24.00
26	AR12541B	AR12541B	10/07/99	0300	3.54	24.01
27	PIBLK1H	PIBLK1H	10/07/99	0410	3.54	24.01
28	PEM1F	PEM1F	10/07/99	0445	3.54	24.01
29	PIBLK1J	PIBLK1J	10/07/99	1531	3.54	24.00
30	INDAM1E	INDAM1E	10/07/99	1606	3.54	24.01
31	INDBM1E	INDBM1E	10/07/99	1641	3.54	24.01

QC LIMITS
TCX = Tetrachloro-m-xylene (+/- 0.05 MINUTES)
DCB = Decachlorobiphenyl (+/- 0.10 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

1323

9A

PESTICIDE FLORISIL CARTRIDGE CHECK

Lab Name: CEIMIC CORP Contract: ROY WESTON

Lab Code: CEIMIC Case No.: 0291F SAS No.: _____ SDG No.: D00064

Florisil Cartridge Lot Number: SP1313R Date of Analysis: 11/27/98

GC Column(1): DB608 ID: 0.53(mm) GC Column(2): _____ ID: ____(mm)

COMPOUND	SPIKE ADDED (ng)	SPIKE RECOVERED (ng)	% REC #	QC LIMITS	
alpha-BHC	10.000	10.6	106	80-120	
gamma-BHC (Lindane)	10.000	10.8	108	80-120	
Heptachlor	10.000	9.99	100	80-120	
Endosulfan I	10.000	11.2	112	80-120	
Dieldrin	20.000	20.8	104	80-120	
Endrin	20.000	20.3	102	80-120	
4,4'-DDD	20.000	18.8	94	80-120	
4,4'-DDT	20.000	20.3	102	80-120	
Methoxychlor	100.000	111	111	80-120	
Tetrachloro-m-xylene	10.000	10.0	100	80-120	
Decachlorobiphenyl	20.000	21.5	108	80-120	

Column to be used to flag recovery with an asterisk.
* Values outside of QC limits

THIS CARTRIDGE LOT APPLIES TO THE FOLLOWING SAMPLES, BLANKS, MS, AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	D00064MSD	990802-01MSD	09/28/99	09/28/99
02	D00068MS	990802-05MS	09/28/99	09/28/99
03	D00068MSD	990802-05MSD	09/28/99	09/28/99

1323

9B
PESTICIDE GPC CALIBRATION

Lab Name: CEIMIC CORP Contract: ROY WESTON

Lab Code: CEIMIC Case No.: 0291F SAS No.: _____ SDG No.: D00064

GPC Column: 0926CK1Y Calibration Date: 10/07/99

GC Column(1): DB5 ID: 0.53(mm) GC Column(2): DB1701 ID: 0.53(mm)

COMPOUND	SPIKE ADDED (ng)	SPIKE RECOVERED (ng)	% REC #	QC LIMITS
gamma-BHC (Lindane)	100.000	91.8	92	80-110
Heptachlor	100.000	80.7	81	80-110
Aldrin	100.000	91.1	91	80-110
Dieldrin	200.000	176	88	80-110
Endrin	200.000	218	109	80-110
4,4'-DDT	200.000	193	96	80-110

Column to be used to flag recovery with an asterisk.
* Values outside of QC limits

THIS GPC CALIBRATION APPLIES TO THE FOLLOWING SAMPLES, BLANKS, MS, AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	PBLK01	P0914-B2	09/27/99	09/27/99
02	PBLK03	P0915-B7	09/27/99	09/27/99
03	D00068	990802-05	09/28/99	09/28/99
04	D00069	990802-06	10/06/99	10/06/99
05	D00070	990802-07	10/06/99	10/06/99
06	D00071	990802-08	10/06/99	10/06/99
07	D00079	990802-16	10/06/99	10/06/99
08	PLCS01	P0914-LCS2	09/27/99	09/27/99
09	PLCS03	P0915-LCS7	09/27/99	09/27/99
10	D00068MS	990802-05MS	09/28/99	09/28/99
11	D00068MSD	990802-05MSD	09/28/99	09/28/99

10A

PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

D00078

Lab Name: CEIMIC CORP Contract: ROY WESTON

Lab Code: CEIMIC Case No.: 0291F SAS No.: _____ SDG No.: D00064

Lab Sample ID : 990802-15 Dates(s) Analyzed: 09/21/99 09/21/99

Instrument ID (1): AD19_1 Instrument ID (2): AD20_1

GC Column(1): DB5 ID: 0.53(mm) GC Column(2): DB1701 ID: 0.53(mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%D
gamma-BHC (Lindane)	1	6.88	6.85	6.95	0.995	
	2	6.49	6.46	6.56	0.868	14.6
Aldrin	1	10.56	10.53	10.63	0.164	
	2	8.18	8.14	8.24	0.175	6.7
Dieldrin	1	14.55	14.48	14.62	0.170	
	2	12.85	12.80	12.94	0.172	1.2
4,4'-DDE	1	14.32	14.25	14.39	0.976	
	2	12.32	12.27	12.41	0.934	4.5
Endrin	1	15.44	15.39	15.53	0.206	
	2	13.65	13.60	13.74	0.210	1.9
4,4'-DDD	1	16.04	15.99	16.13	0.242	
	2	15.41	15.36	15.50	0.262	8.3
Methoxychlor	1	20.10	20.05	20.19	8.43	
	2	18.81	18.76	18.90	8.24	2.3

10A
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

D00078DL

Lab Name: CEIMIC CORP Contract: ROY WESTON

Lab Code: CEIMIC Case No.: 0291F SAS No.: _____ SDG No.: D00064

Lab Sample ID : 990802-15DL Dates(s) Analyzed: 09/21/99 09/21/99

Instrument ID (1): AD19_1 Instrument ID (2): AD20_1

GC Column(1): DB5 ID: 0.53(mm) GC Column(2): DB1701 ID: 0.53(mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%D
gamma-BHC (Lindane)	1	6.89	6.85	6.95	1.73	
	2	6.50	6.46	6.56	1.76	1.7
Aldrin	1	10.57	10.53	10.63	0.351	
	2	8.20	8.14	8.24	0.360	2.6
Dieldrin	1	14.55	14.48	14.62	0.360	
	2	12.86	12.80	12.94	0.357	0.8
4,4'-DDE	1	14.33	14.25	14.39	1.77	
	2	12.33	12.27	12.41	1.81	2.3
Endrin	1	15.45	15.39	15.53	0.409	
	2	13.66	13.60	13.74	0.415	1.5
4,4'-DDD	1	16.05	15.99	16.13	0.492	
	2	15.42	15.36	15.50	0.518	5.3
Methoxychlor	1	20.11	20.05	20.19	17.4	
	2	18.82	18.76	18.90	17.4	0.0

10A
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

D00079

Lab Name: CEIMIC CORP Contract: ROY WESTON

Lab Code: CEIMIC Case No.: 0291F SAS No.: _____ SDG No.: D00064

Lab Sample ID : 990802-16 Dates(s) Analyzed: 10/06/99 10/06/99

Instrument ID (1): AD19_1 Instrument ID (2): AD20_1

GC Column(1): DB5 ID: 0.53(mm) GC Column(2): DB1701 ID: 0.53(mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%D
gamma-BHC (Lindane)	1	6.89	6.85	6.95	2.20	
	2	6.49	6.46	6.56	2.25	2.3
Endosulfan II	1	15.74	15.72	15.86	7.77	
	2	15.51	15.47	15.61	7.77	0.0

1333

FORM X PEST-1

OLM03.0

10A
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

PLCS01

Lab Name: CEIMIC CORP Contract: ROY WESTON

Lab Code: CEIMIC Case No.: 0291F SAS No.: _____ SDG No.: D00064

Lab Sample ID : P0914-LCS2 Dates(s) Analyzed: 09/27/99 09/27/99

Instrument ID (1): AD19_1 Instrument ID (2): AD20_1

GC Column(1): DB5 ID: 0.53(mm) GC Column(2): DB1701 ID: 0.53(mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%D
gamma-BHC (Lindane)	1	6.92	6.85	6.95	11.0	
	2	6.52	6.46	6.56	10.7	2.8
Heptachlor	1	9.31	9.24	9.34	10.2	
	2	7.29	7.22	7.32	11.4	11.8
Aldrin	1	10.60	10.53	10.63	11.8	
	2	8.20	8.14	8.24	12.5	5.9
Dieldrin	1	14.58	14.48	14.62	23.6	
	2	12.89	12.80	12.94	24.2	2.5
Endrin	1	15.49	15.39	15.53	29.6	
	2	13.69	13.60	13.74	30.0	1.4
4,4'-DDT	1	17.71	17.61	17.75	23.5	
	2	16.21	16.11	16.25	27.3	16.2

1334

10A
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

PLCS02

Lab Name: CEIMIC CORP Contract: ROY WESTON

Lab Code: CEIMIC Case No.: 0291F SAS No.: _____ SDG No.: D00064

Lab Sample ID : P0914-LCS8 Dates(s) Analyzed: 09/27/99 09/27/99

Instrument ID (1): AD19_1 Instrument ID (2): AD20_1

GC Column(1): DB5 ID: 0.53(mm) GC Column(2): DB1701 ID: 0.53(mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%D
gamma-BHC (Lindane)	1	6.90	6.85	6.95	0.393	
	2	6.51	6.46	6.56	0.378	4.0
Heptachlor	1	9.29	9.24	9.34	0.344	
	2	7.27	7.22	7.32	0.374	8.7
Aldrin	1	10.58	10.53	10.63	0.415	
	2	8.19	8.14	8.24	0.420	1.2
Dieldrin	1	14.56	14.48	14.62	0.744	
	2	12.87	12.80	12.94	0.754	1.3
Endrin	1	15.47	15.39	15.53	0.899	
	2	13.67	13.60	13.74	0.897	0.2
4,4'-DDT	1	17.69	17.61	17.75	0.652	
	2	16.19	16.11	16.25	0.733	12.4

1335

10A

PESTICIDE IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

PLCS03

Lab Name: CEIMIC CORP Contract: ROY WESTON

Lab Code: CEIMIC Case No.: 0291F SAS No.: _____ SDG No.: D00064

Lab Sample ID : P0915-LCS7 Dates(s) Analyzed: 09/27/99 09/27/99

Instrument ID (1): AD19_1 Instrument ID (2): AD20_1

GC Column(1): DB5 ID: 0.53(mm) GC Column(2): DB1701 ID: 0.53(mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%D
gamma-BHC (Lindane)	1	6.92	6.85	6.95	13.6	
	2	6.52	6.46	6.56	13.0	4.6
Heptachlor	1	9.31	9.24	9.34	12.2	
	2	7.29	7.22	7.32	13.4	9.8
Aldrin	1	10.60	10.53	10.63	14.5	
	2	8.20	8.14	8.24	14.7	1.4
Dieldrin	1	14.57	14.48	14.62	29.0	
	2	12.89	12.80	12.94	29.1	0.3
Endrin	1	15.48	15.39	15.53	38.0	
	2	13.69	13.60	13.74	37.4	1.6
4,4'-DDT	1	17.71	17.61	17.75	33.2	
	2	16.20	16.11	16.25	37.9	14.2

10A
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

PLCS04

Lab Name: CEIMIC CORP Contract: ROY WESTON

Lab Code: CEIMIC Case No.: 0291F SAS No.: _____ SDG No.: D00064

Lab Sample ID : P0915-LCS9 Dates(s) Analyzed: 09/21/99 09/21/99

Instrument ID (1): AD19_1 Instrument ID (2): AD20_1

GC Column(1): DB5 ID: 0.53(mm) GC Column(2): DB1701 ID: 0.53(mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%D
gamma-BHC (Lindane)	1	6.89	6.85	6.95	0.396	
	2	6.50	6.46	6.56	0.376	5.3
Heptachlor	1	9.28	9.24	9.34	0.353	
	2	7.26	7.22	7.32	0.347	1.7
Aldrin	1	10.56	10.53	10.63	0.411	
	2	8.18	8.14	8.24	0.398	3.3
Dieldrin	1	14.54	14.48	14.62	0.787	
	2	12.86	12.80	12.94	0.758	3.8
Endrin	1	15.45	15.39	15.53	0.987	
	2	13.65	13.60	13.74	0.934	5.7
4,4'-DDT	1	17.67	17.61	17.75	0.826	
	2	16.17	16.11	16.25	0.831	0.6

10A
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

D00064MS

Lab Name: CEIMIC CORP Contract: ROY WESTON

Lab Code: CEIMIC Case No.: 0291F SAS No.: _____ SDG No.: D00064

Lab Sample ID : 990802-01MS Dates(s) Analyzed: 09/27/99 09/27/99

Instrument ID (1): AD19_1 Instrument ID (2): AD20_1

GC Column(1): DB5 ID: 0.53(mm) GC Column(2): DB1701 ID: 0.53(mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%D
gamma-BHC (Lindane)	1	6.90	6.85	6.95	0.429	
	2	6.51	6.46	6.56	0.415	3.4
Heptachlor	1	9.30	9.24	9.34	0.383	
	2	7.28	7.22	7.32	0.414	8.1
Aldrin	1	10.58	10.53	10.63	0.448	
	2	8.19	8.14	8.24	0.454	1.3
Dieldrin	1	14.56	14.48	14.62	0.839	
	2	12.88	12.80	12.94	0.846	0.8
Endrin	1	15.47	15.39	15.53	1.09	
	2	13.67	13.60	13.74	1.08	0.9
4,4'-DDT	1	17.69	17.61	17.75	0.818	
	2	16.19	16.11	16.25	0.919	12.4

10A

PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

D00064MSD

Lab Name: CEIMIC CORP Contract: ROY WESTON

Lab Code: CEIMIC Case No.: 0291F SAS No.: _____ SDG No.: D00064

Lab Sample ID : 990802-01MSD Dates(s) Analyzed: 09/28/99 09/28/99

Instrument ID (1): AD19_1 Instrument ID (2): AD20_1

GC Column(1): DB5 ID: 0.53(mm) GC Column(2): DB1701 ID: 0.53(mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%D
gamma-BHC (Lindane)	1	6.89	6.85	6.95	0.408	
	2	6.50	6.46	6.56	0.401	1.7
Heptachlor	1	9.28	9.24	9.34	0.364	
	2	7.26	7.22	7.32	0.393	8.0
Aldrin	1	10.57	10.53	10.63	0.415	
	2	8.18	8.14	8.24	0.430	3.6
Dieldrin	1	14.54	14.48	14.62	0.790	
	2	12.86	12.80	12.94	0.802	1.5
Endrin	1	15.45	15.39	15.53	1.01	
	2	13.66	13.60	13.74	1.00	1.0
4,4'-DDT	1	17.68	17.61	17.75	0.766	
	2	16.18	16.11	16.25	0.859	12.1

1333

10A
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

D00068MS

Lab Name: CEIMIC CORP Contract: ROY_WESTON

Lab Code: CEIMIC Case No.: 0291F SAS No.: _____ SDG No.: D00064

Lab Sample ID : 990802-05MS Dates(s) Analyzed: 09/28/99 09/28/99

Instrument ID (1): AD19_1 Instrument ID (2): AD20_1

GC Column(1): DB5 ID: 0.53(mm) GC Column(2): DB1701 ID: 0.53(mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%D
gamma-BHC (Lindane)	1	6.89	6.85	6.95	14.0	
	2	6.50	6.46	6.56	13.4	4.5
Heptachlor	1	9.28	9.24	9.34	12.7	
	2	7.26	7.22	7.32	14.5	14.2
Aldrin	1	10.58	10.53	10.63	13.3	
	2	8.18	8.14	8.24	14.2	6.8
Dieldrin	1	14.53	14.48	14.62	30.4	
	2	12.86	12.80	12.94	33.6	10.5
Endrin	1	15.44	15.39	15.53	43.5	
	2	13.65	13.60	13.74	41.7	4.3
4,4'-DDT	1	17.67	17.61	17.75	32.8	
	2	16.17	16.11	16.25	43.3	32.0

1340

10A
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

D00068MSD

Lab Name: CEIMIC CORP Contract: ROY WESTON

Lab Code: CEIMIC Case No.: 0291F SAS No.: _____ SDG No.: D00064

Lab Sample ID : 990802-05MSD Dates(s) Analyzed: 09/28/99 09/28/99

Instrument ID (1): AD19_1 Instrument ID (2): AD20_1

GC Column(1): DB5 ID: 0.53(mm) GC Column(2): DB1701 ID: 0.53(mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%D
gamma-BHC (Lindane)	1	6.89	6.85	6.95	15.2	
	2	6.50	6.46	6.56	14.7	3.4
Heptachlor	1	9.28	9.24	9.34	14.4	
	2	7.26	7.22	7.32	15.6	8.3
Aldrin	1	10.56	10.53	10.63	17.8	
	2	8.18	8.14	8.24	16.9	5.3
Dieldrin	1	14.53	14.48	14.62	32.1	
	2	12.86	12.80	12.94	32.8	2.2
Endrin	1	15.44	15.39	15.53	45.9	
	2	13.65	13.60	13.74	43.9	4.6
4,4'-DDT	1	17.67	17.61	17.75	38.2	
	2	16.17	16.11	16.25	45.3	18.6

10B
PESTICIDE IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

EPA SAMPLE NO.

D00078

Lab Name: CEIMIC CORP Contract: ROY WESTON

Lab Code: CEIMIC Case No.: 0291F SAS No.: _____ SDG No.: D00064

Lab Sample ID : 990802-15 Dates(s) Analyzed: 09/21/99 09/21/99

Instrument ID (1): AD19_1 Instrument ID (2): AD20_1

GC Column(1): DB5 ID: 0.53(mm) GC Column(2): DB1701 ID: 0.53(mm)

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%D
	1	5.92	5.87	6.01	1.10		
Aroclor-1016	2	7.73	7.69	7.83	1.11		
	3	8.61	8.57	8.71	1.15		
COLUMN 1	4						
	5					1.1	
	1	4.70	4.65	4.79	1.17		
	2	5.65	5.60	5.74	1.10		
	3	6.96	6.91	7.05	1.17		
COLUMN 2	4						
	5					1.1	0.0

At least 3 peaks are required for identification of multicomponent analytes

10B

PESTICIDE IDENTIFICATION SUMMARY FOR MULTICOMPONENT ANALYTES

EPA SAMPLE NO.

D00079

Lab Name: CEIMIC CORP Contract: ROY WESTON

Lab Code: CEIMIC Case No.: 0291F SAS No.: _____ SDG No.: D00064

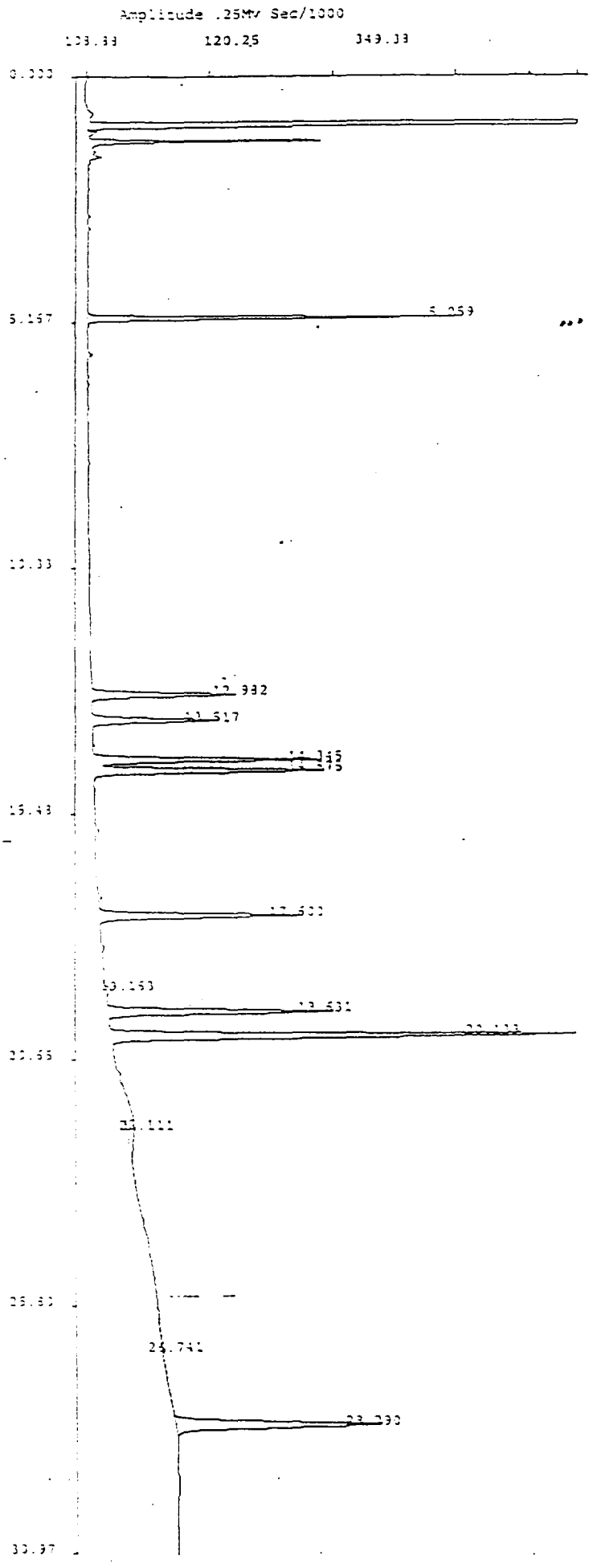
Lab Sample ID : 990802-16 Dates(s) Analyzed: 10/06/99 10/06/99

Instrument ID (1): AD19_1 Instrument ID (2): AD20_1

GC Column(1): DB5 ID: 0.53(mm) GC Column(2): DB1701 ID: 0.53(mm)

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%D
	1	9.79	9.75	9.89	96.9		
Aroclor-1254	2	13.15	13.10	13.24	75.9		
	3	14.67	14.62	14.76	90.9		
COLUMN 1	4						
	5					88	
	1	10.20	10.15	10.29	74.4		
	2	12.58	12.53	12.67	88.8		
	3	13.19	13.14	13.28	95.5		
COLUMN 2	4						
	5					86	2.3

At least 3 peaks are required for identification of multicomponent analytes



Celmic Corporation Pest/PCB Report

Sample Name : RZSC0A
Lab Id : RZSC0A ,I
Inst Id & Col : AD19_1, DB5, 0.53mm
Volume Injected: 1.0 uL Multilevel : False
Peak Processor : Genie Application : Loop
Calculation : ExternalSTD Quantitation: AreaUnits
Result File : /DATA/RESULT/R19P20SEP001.RES
Inject Time : 1605 20Sep1999
Run Status : RunStatusOK

Yo 9/27/99

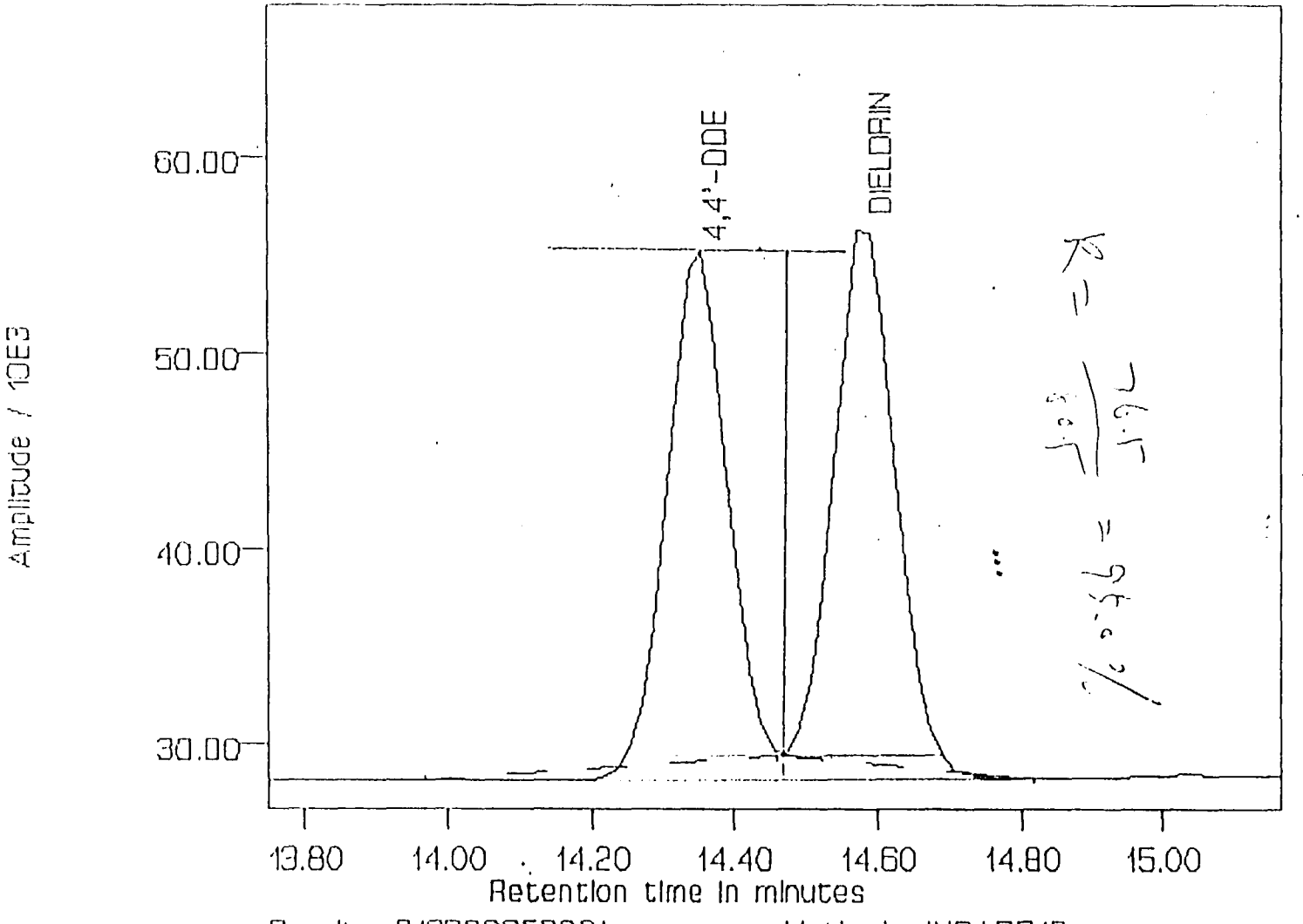
Pk #	RT	Area	Code	MASSNG	Name
1	5.06	180234	BB	.020	TCX
2	12.98	106429	BB	.010	G. CHLORDANE
3	13.52	92536	BB	.009	ENDOSULF. I
4	14.34	144636	BB	.017	4,4'-DDE
5	14.57	159309	BB	.017	DIELDRIN
6	17.60	161758	BB	.019	ENDO. SULFAT
7	19.16	5061	BB	.001	
8	19.63	176415	BB	.019	ENDRIN KETONE
9	20.14	378535	BB	.090	METHOXYCHLOR
10	22.11	58553	BB	.013	
11	26.74	53090	BB	.012	
12	28.29	215408	BB	.019	DCB

Total Area: 1731363

Method File: /DATA/METHOD/INDABQ19.MTH
Format File: /DATA/FORMAT/DUAL_COL.FMT
Report Time: 1337 27Sep1999

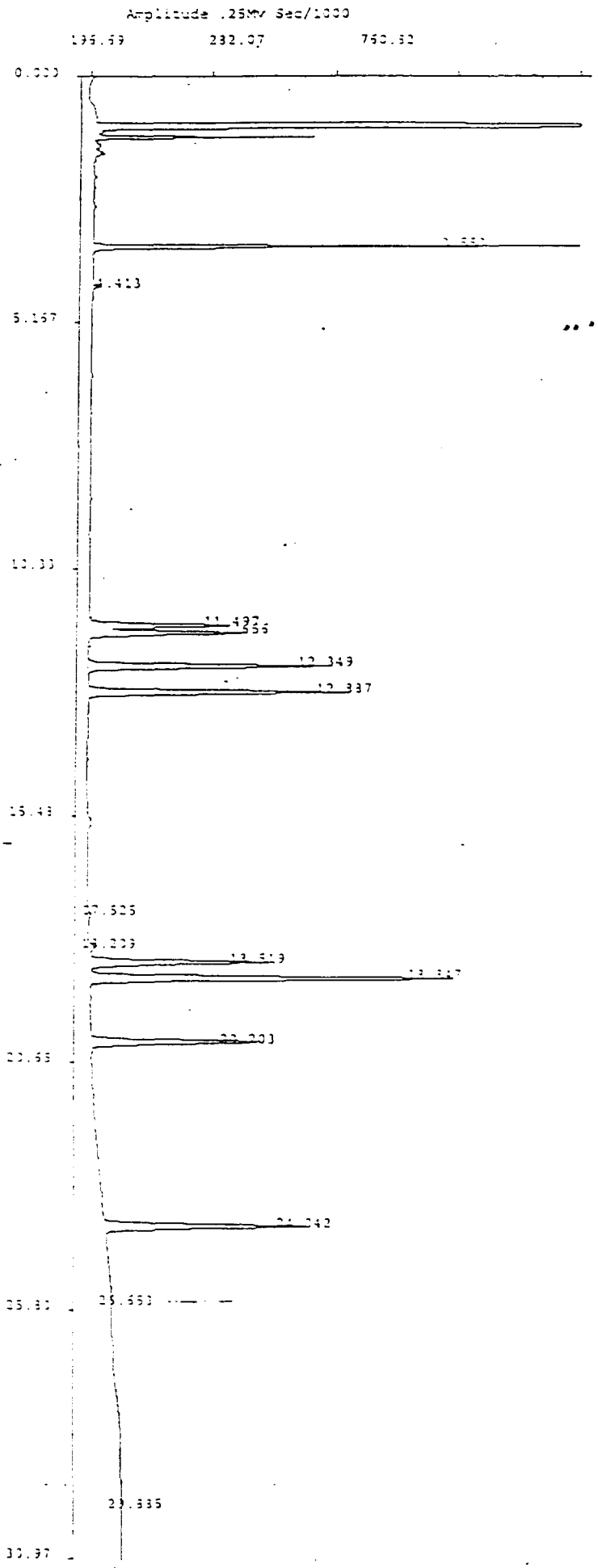
COPY

Sample : DESCOA Injected : MON SEP 20, 1999 4:05:20 PM



Result : R19P20SEP001 Method : INDABQ19

1345



Celmic Corporation Pest/PCB Report

Sample Name : RESC1A
Lab Id : RESC1A .I
Inst Id & Col : AD20_1, DB1701, 0.53 mm
Volume Injected: 1.0 uL Multilevel : False
Peak Processor : Genie Application : Loop
Calculation : ExternalSTD Quantitation: AreaUnits
Result File : /DATA/RESULT/R20P20SEP001.RES
Inject Time : 1605 20Sep1999
Run Status : RunStatusOK

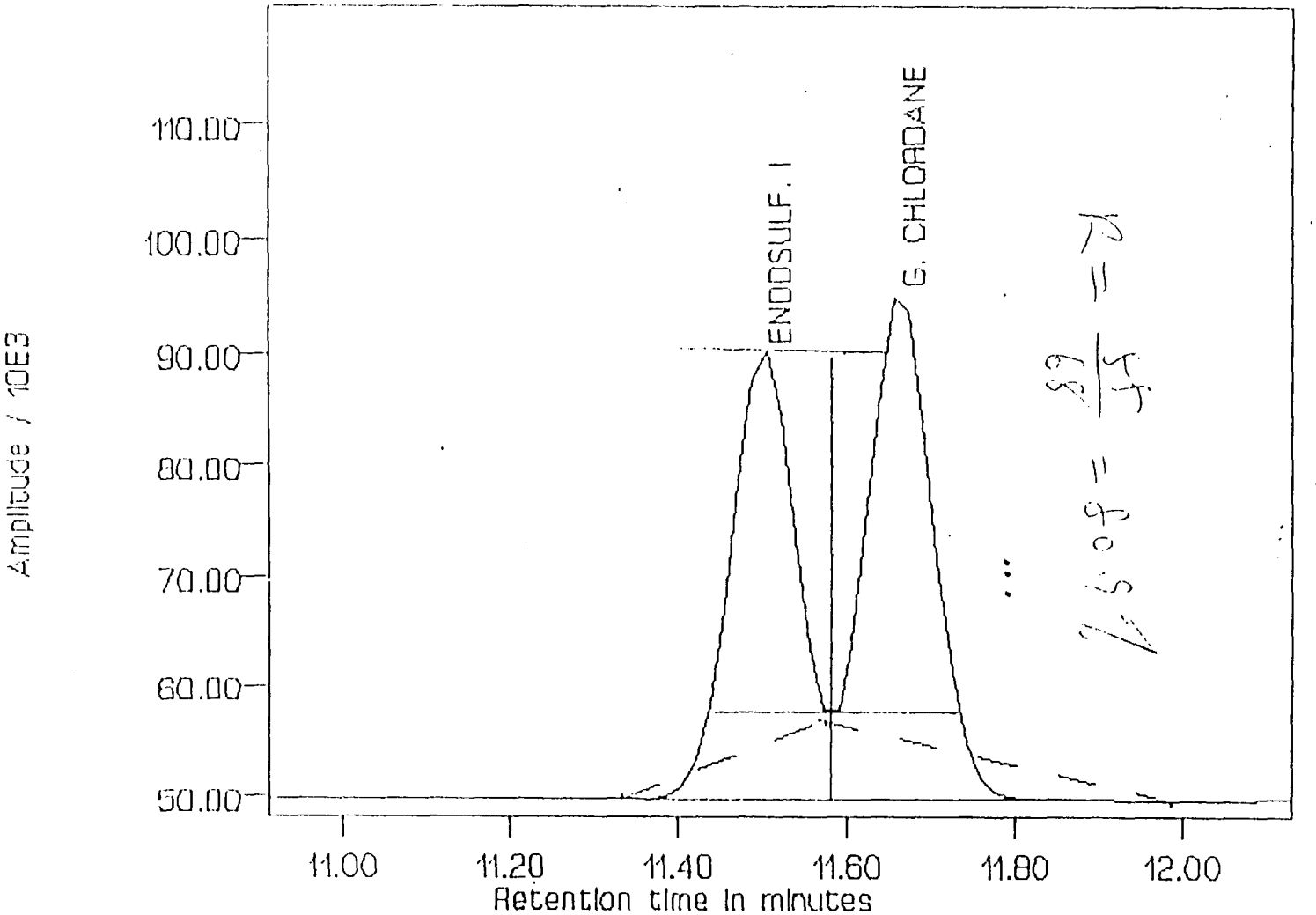
V, 9/21/99

Pk #	RT	Area	Code	MASSNG	Name
1	3.55	435624	BB	.020	TCX
2	4.41	6173	BB	.001	
3	11.50	167210	BB	.007	ENDOSULF. I
4	11.66	165289	BB	.007	G. CHLORDANE
5	12.35	394426	BB	.019	4,4'-DDE
6	12.89	419263	BB	.019	DIELDRIN
7	17.52	10518	BB	.002	
8	18.21	10107	BB	.002	
9	18.52	333552	BB	.019	ENDO. SULFAT
10	18.85	633328	BB	.092	METHOXYCLOR
11	20.20	278799	BB	.019	ENDRIN KETONE
12	24.04	379141	BB	.020	DCB
13	25.65	23755	BB	.005	
14	29.89	85582	BB	.019	

Total Area: 3313755

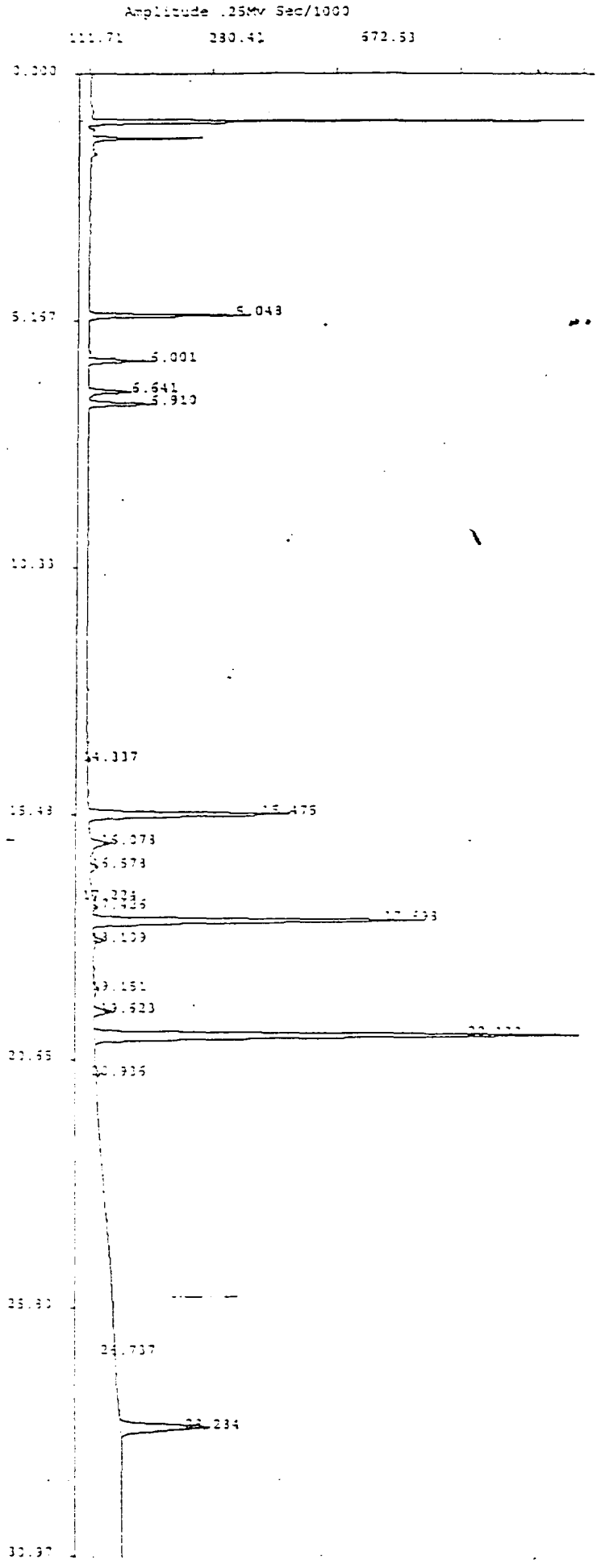
Method File: /DATA/METHOD/INDABQ20.MTH
Format File: /DATA/FORMAT/DUAL_COL.FMT
Report Time: 1904 27Sep1999

Sample : RESC1A Injected : MON SEP 20, 1999 4:05:20 PM



Result : R20P20SEP001 Method : INDA8Q20

13-17



Celmic Corporation Pest/PCB Report

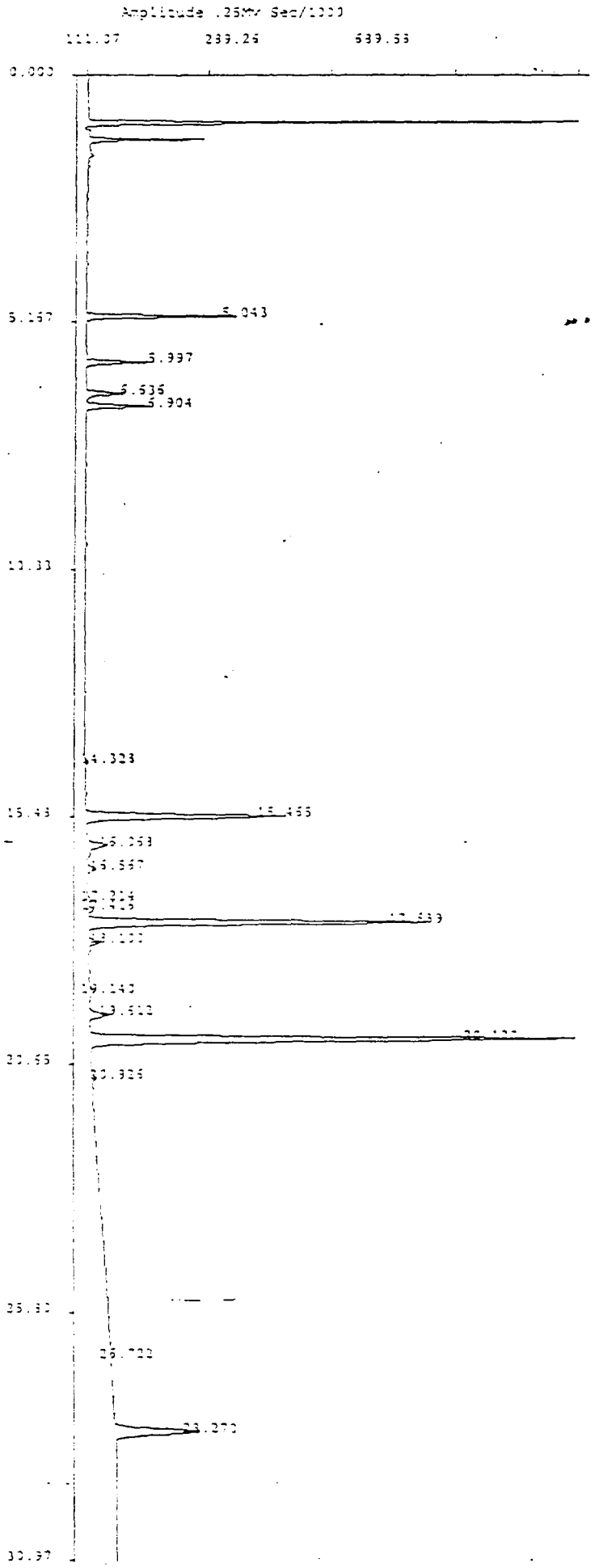
Sample Name : PEM0A
Lab Id : PEM0A ,I
Inst Id & Col : AD19_1, DB5, 0.53mm
Volume Injected: 1.0 uL Multilevel : False
Peak Processor : Genie Application : Loop
Calculation : ExternalSTD Quantitation: AreaUnits
Result File : /DATA/RESULT/R19P20SEP002.RES
Inject Time : 1640 20Sep1999
Run Status : RunStatusOK
EndOffBaseline

Pk #	RT	Area	Code	MASSNG	Name
1	5.05	169161	BB	.019	TCX
2	6.00	79979	BB	.008	ALPHA-BHC
3	6.54	57797	BB	.010	BETA-BHC
4	6.91	32846	BB	.003	GAMMA-BHC
5	14.34	4728	BB	.001	4,4'-DDE
6	15.47	344574	BB	.050	ENDRIN
7	15.08	34172	BB	.005	4,4'-DDD
8	16.53	14214	BB	.002	ENDRIN ALDEH
9	17.22	4897	BB	.001	
10	17.43	9472	BB	.002	
11	17.70	573880	BB	.097	4,4'-DDT
12	18.11	17696	BB	.004	
13	18.15	13635	BB	.003	
14	19.62	34150	BB	.004	ENDRIN KETONE
15	20.13	927464	BB	.221	METHOXYCHLOR
16	20.94	7092	BB	.002	
17	26.74	67095	BB	.015	
18	28.28	225632	BB	.020	DCB

Total Area: 2563535

Method File: /DATA/METHOD/INDABQ19.MTH
Format File: /DATA/FORMAT/DUAL_COL.FMT
Report Time: 1317 27Sep1999

COPY



Celmic Corporation Pest/PCB Report

Sample Name : PEM0B
Lab Id : PEM0B ,I
Inst Id & Col : AD19_1, DB5, 0.53mm
Volume Injected: 1.0 uL Multilevel : False
Peak Processor : Genie Application : Loop
Calculation : ExternalSTD Quantitation: AreaUnits
Result File : /DATA/RESULT/R19P20SEP017.RES
Inject Time : 0128 21Sep1999
Run Status : RunStatusOK

Pk #	RT	Area	Code	MASSNG	Name
1	5.04	171234	BB	.019	TCX
2	5.00	81549	BB	.008	ALPHA-BHC
3	5.54	58060	BB	.010	BETA-BHC
4	5.90	84041	BB	.008	GAMMA-BHC
5	14.33	5363	BB	.001	4,4'-DDE
6	15.47	349459	BB	.051	ENDRIN
7	16.07	35187	BB	.005	4,4'-DDD
8	16.57	15018	BB	.002	ENDRIN ALDEH
9	17.21	5389	BB	.001	
10	17.42	10084	BB	.002	
11	17.63	525273	BB	.105	4,4'-DDT
12	18.10	18269	BB	.004	
13	19.14	13184	BB	.003	
14	19.61	16644	BB	.004	ENDRIN KETONE
15	20.12	961106	BB	.229	METHOXYCHLOR
16	20.93	6512	BB	.001	
17	26.72	32616	BB	.007	
18	28.27	211312	BB	.019	DCB

Total Area: 2721405

Method File: /DATA/METHOD/INDABQ19.MTH
Format File: /DATA/FORMAT/DUAL_COL.FMT
Report Time: 1355 27Sep1999

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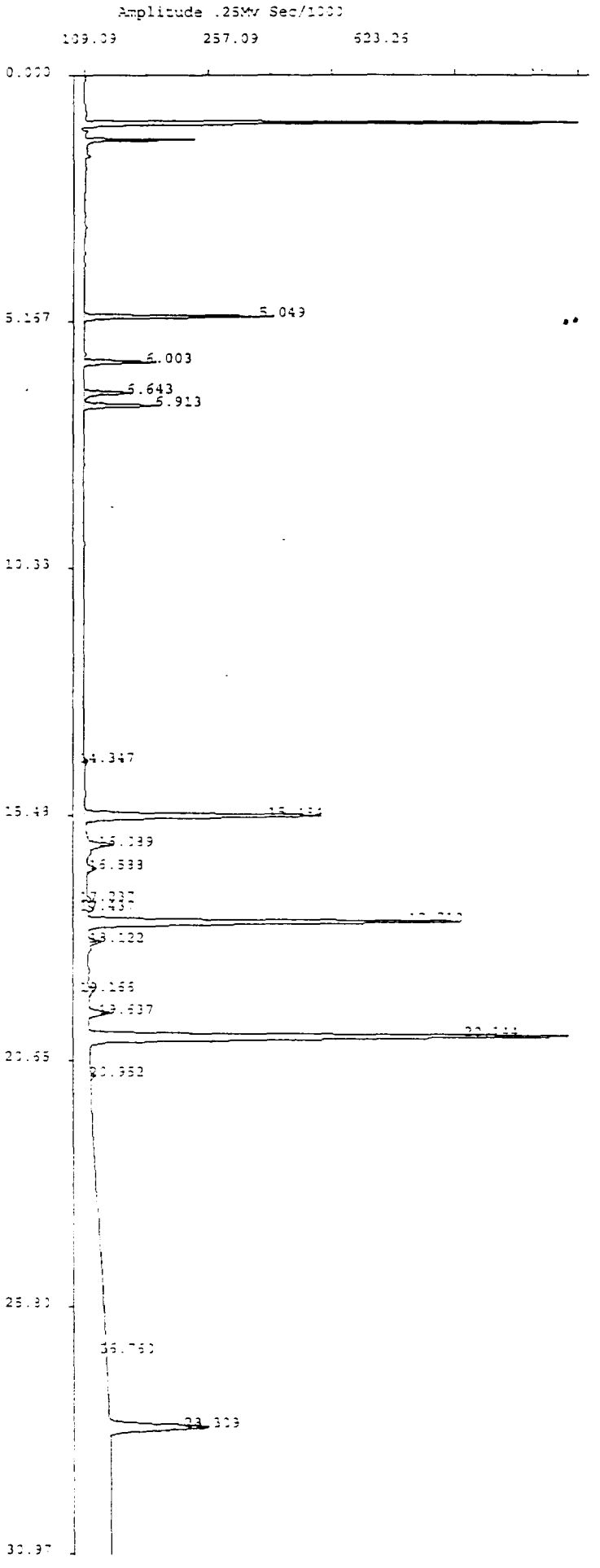


Ceimic Corporation Pest/PCB Report

Sample Name : PEM0C
Lab Id : PEM0C
Inst Id & Col : AD19_1, DB5, 0.53mm
Volume Injected: 1.0 uL Multilevel : False
Peak Processor : Genie Application : Loop
Calculation : ExternalSTD Quantitation: AreaUnits
Result File : /DATA/RESULT/R19P27SEP008.RES
Inject Time : 1439 27Sep1999
Run Status : RunStatusOK
EndOffBaseline

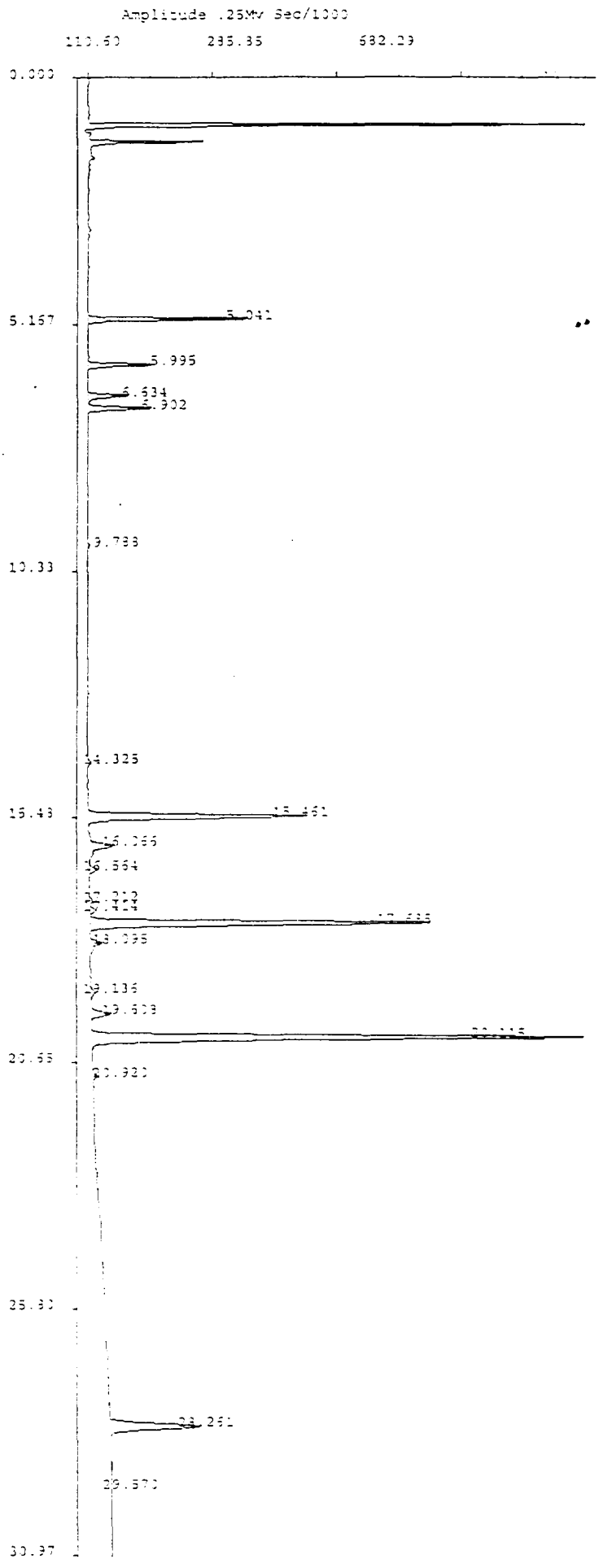
100899/3

Pk #	RT	Area	Code	MASSNG	Name	ng/mg
1	5.05	179153	BB	.020	TCX	.020
2	6.00	78431	BB	.008	ALPHA-BHC	.010
3	6.64	58423	BB	.010	BETA-BHC	
4	6.91	82326	BB	.008	GAMMA-BHC	
5	14.35	5672	BB	.001	4,4'-DDE	—
6	15.48	363199	BB	.053	ENDRIN	.050
7	16.09	36942	BB	.005	4,4'-DDD	—
8	16.59	11444	BB	.002	ENDRIN ALDEH	—
9	17.24	5936	BB	.001		
10	17.44	8495	BB	.002		
11	17.71	595800	BB	.100	4,4'-DDT	.100
12	18.12	17011	BB	.004		
13	19.17	11326	BB	.002		
14	19.64	35764	BB	.004	ENDRIN KETONE	—
15	20.14	362520	BB	.206	METHOXYCHLOR	.250
16	20.95	7375	BB	.002		
17	26.75	13953	BB	.003		
18	28.31	220407	BB	.019	DCB	.020

Total Area: 2534231

Method File: /DATA/METHOD/QR19P20SEP.MTH
Format File: /DATA/FORMAT/DUAL_COL.FMT
Report Time: 1153 30Oct1999

1350



Ceimic Corporation Pest/PCB Report

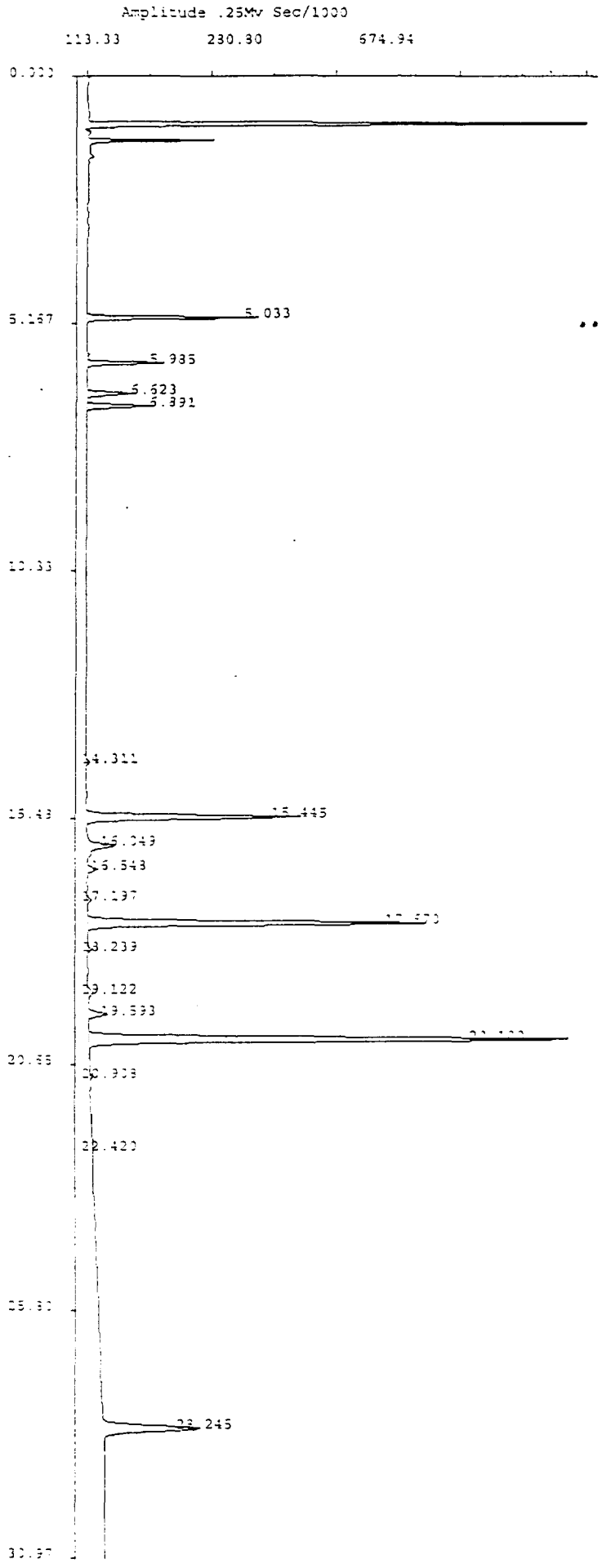
Sample Name : PEM0D
Lab Id : PEM0D
Inst Id & Col : AD19_1, DB5, 0.53mm
Volume Injected: 1.0 uL Multilevel : False
Peak Processor : Genie Application : Loop
Calculation : ExternalSTD Quantitation: AreaUnits
Result File : /DATA/RESULT/R19P27SEP043.RES
Inject Time : 1121 28Sep1999
Run Status : RunStatusOK

100899/3

Pk #	RT	Area	Code	MASSNG	Name	mg inj.
1	5.04	178218	BB	.020	TCX	.020
2	6.00	81745	BB	.008	ALPHA-BHC	.010
3	6.53	59681	BB	.010	BETA-BHC	
4	6.90	85815	BB	.009	GAMMA-BHC	
5	9.79	4037	BB	.001		
6	14.32	6014	BB	.001	4,4'-DDE	—
7	15.46	370963	BB	.054	ENDRIN	.050
8	16.07	41018	BB	.006	4,4'-DDD	—
9	16.56	12445	BB	.002	ENDRIN ALDEH	—
10	17.21	5452	BB	.001		
11	17.41	9803	BB	.002		
12	17.63	621160	BB	.104	4,4'-DDT	.100
13	18.10	18244	BB	.004		
14	19.14	12042	BB	.003		
15	19.61	37383	BB	.004	ENDRIN KETONE	—
16	20.12	951599	BB	.227	METHOXYCHLOR	.250
17	20.92	7558	BB	.002		
18	28.26	228436	BB	.020	DCB	.020
19	29.57	6570	BB	.001		

Total Area: 2738280

Method File: /DATA/METHOD/QR19P20SEP.MTH
Format File: /DATA/FORMAT/DUAL_COL.FMT
Report Time: 1252 28Oct1999



Ceimic Corporation Pest/PCB Report

Sample Name : PEM0E
Lab Id : PEM0E
Inst Id & Col : AD19_1, DB5, 0.53mm
Volume Injected: 1.0 uL Multilevel : False
Peak Processor : Genie Application : Loop
Calculation : ExternalSTD Quantitation: AreaUnits
Result File : /DATA/RESULT/R19P05OCT041.RES
Inject Time : 0813 06Oct1999
Run Status : RunStatusOK
EndOffBaseline

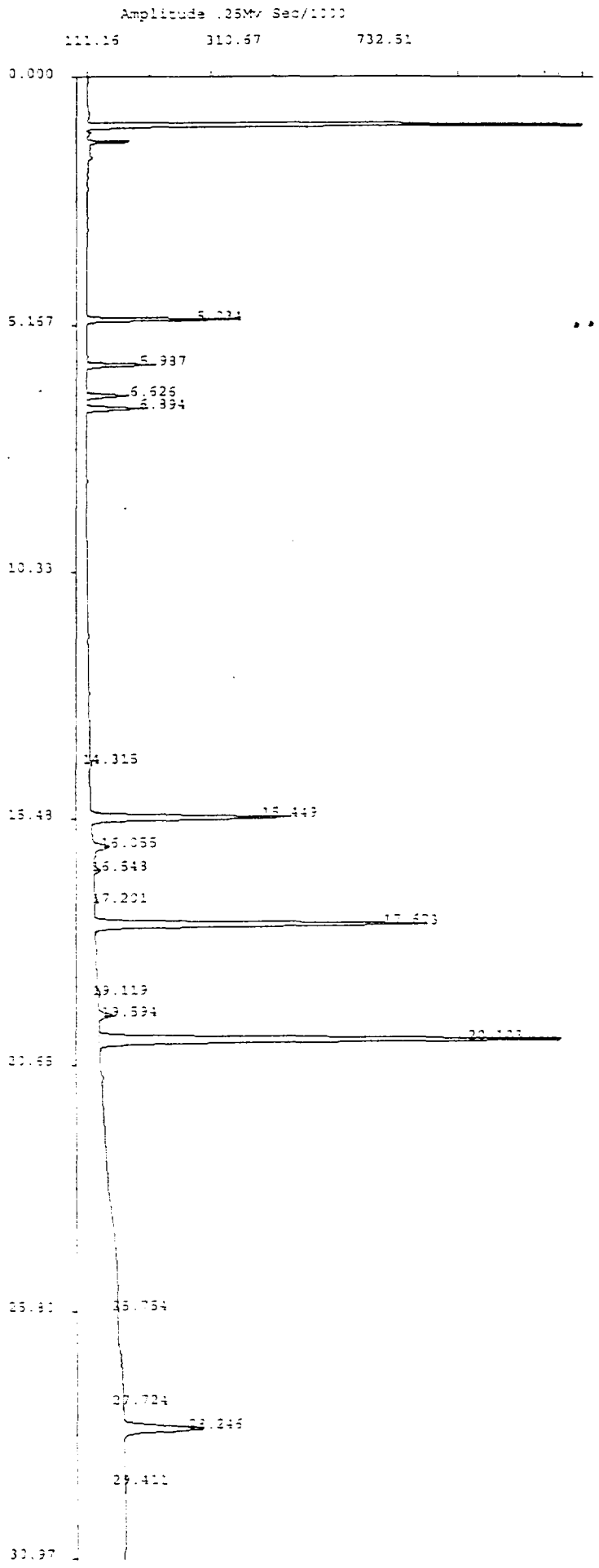
100899/G

mg/kg

Pk #	RT	Area	Code	MASSNG	Name	
1	5.03	173272	BB	.019	TCX	.020
2	5.98	84154	BB	.008	ALPHA-BHC	.010
3	6.62	59269	BB	.010	BETA-BHC	
4	6.89	33776	BB	.008	GAMMA-BHC	
5	14.31	6653	BB	.001	4,4'-DDE	—
6	15.44	356695	BB	.054	ENDRIN	.050
7	16.05	45401	BB	.006	4,4'-DDD	—
8	16.55	14343	BB	.002	ENDRIN ALDEH	—
9	17.20	7760	BB	.002		
10	17.67	501997	BB	.101	4,4'-DDT	.100
11	18.24	5192	BB	.001		
12	19.12	12451	BB	.003		
13	19.59	34406	BB	.004	ENDRIN KETONE	—
14	20.10	943510	BB	.225	METHOXYCHLOR	.250
15	20.91	4040	BB	.001		
16	22.42	7457	BB	.002		
17	28.25	243050	BB	.021	DCB	.020

Total Area: 2593926

Method File: /DATA/METHOD/QR19P20SEP.MTH
Format File: /DATA/FORMAT/DUAL_COL.FMT
Report Time: 1257 08Oct1999



Ceimic Corporation Pest/PCB Report

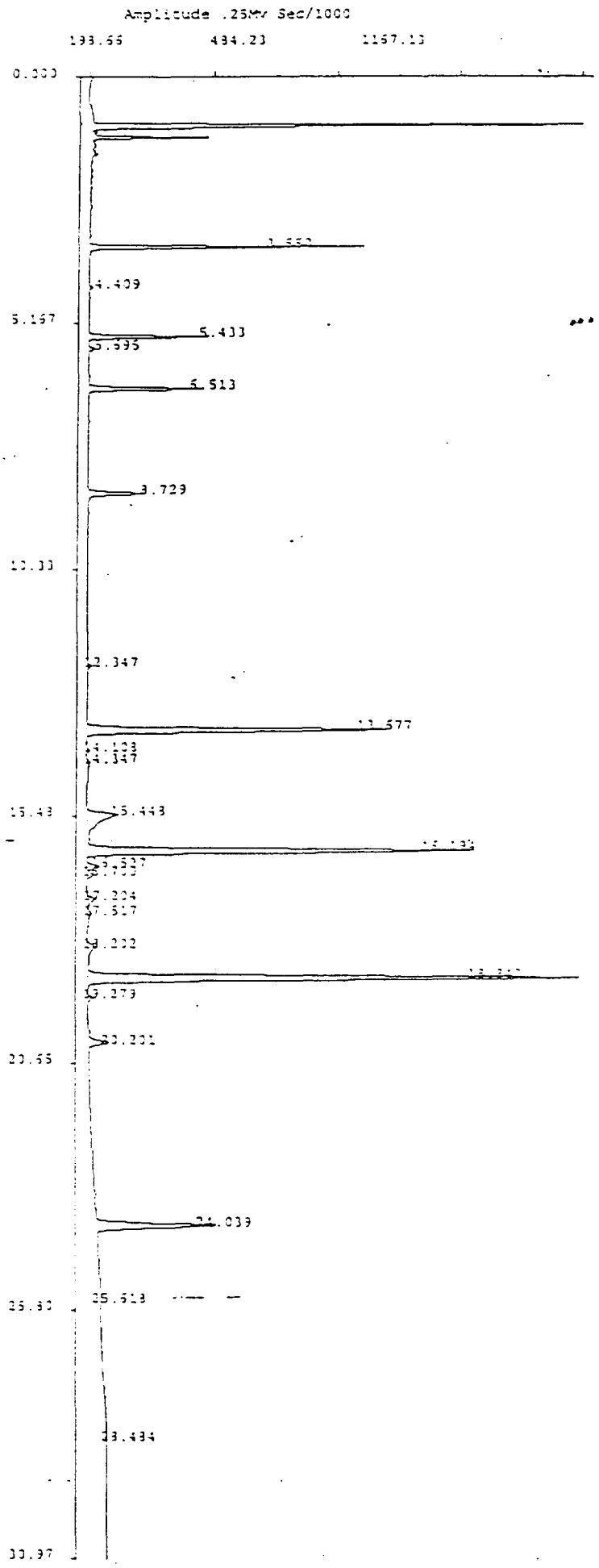
Sample Name : PEM0F
Lab Id : PEM0F
Inst Id & Col : AD19_1, DB5, 0.53mm
Volume Injected: 1.0 uL Multilevel : False
Peak Processor : Genie Application : Loop
Calculation : ExternalSTD Quantitation: AreaUnits
Result File : /DATA/RESULT/R19P05OCT076.RES
Inject Time : 0445 07Oct1999
Run Status : RunStatusOK
EndOffBaseline

100899/5
-mg/mg

Pk #	RT	Area	Code	MASSNG	Name	
1	5.03	173330	BB	.019	TCX	.020
2	5.99	84304	BB	.008	ALPHA-BHC	.040
3	6.63	59057	BB	.010	BETA-BHC	
4	6.89	83902	BB	.008	GAMMA-BHC	
5	14.32	4462	BB	.001	4,4'-DDE	
6	15.45	379945	BB	.055	ENDRIN	.050
7	16.05	30448	BB	.004	4,4'-DDD	
8	16.55	14505	BB	.002	ENDRIN ALDEH	
9	17.20	6950	BB	.002		
10	17.67	646252	BB	.109	4,4'-DDT	.100
11	19.12	7148	BB	.002		
12	19.59	27858	BB	.003	ENDRIN KETONE	.250
13	20.10	1321820	BB	.244	METHOXYCHLOR	
14	25.75	15107	BB	.003		
15	27.72	35089	BB	.008		
16	28.25	223977	BB	.020	DCB	.020
17	29.41	4366	BB	.001		

Total Area: 2819522

Method File: /DATA/METHOD/QR19P20SEP.MTH
Format File: /DATA/FORMAT/DUAL_COL.FMT
Report Time: 1324 08Oct1999



Celmic Corporation Pest/PCB Report

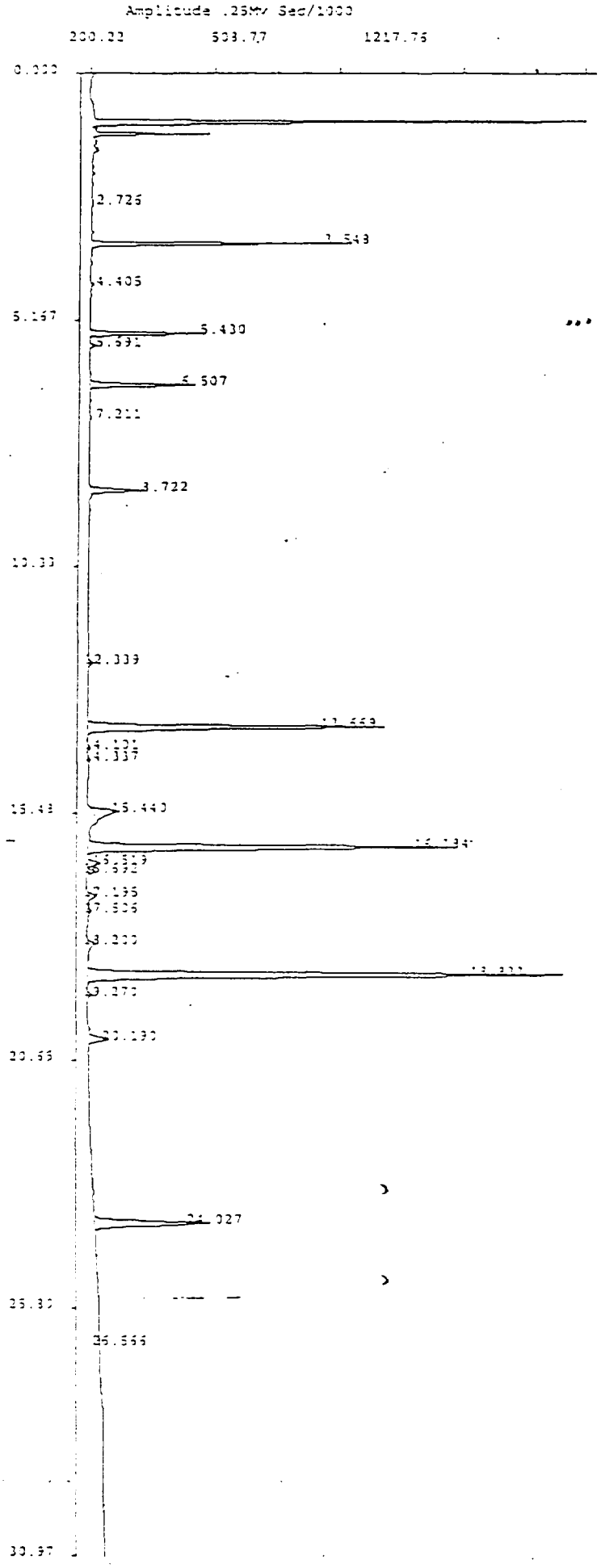
Sample Name : PEM1A
Lab Id : PEM1A ,I
Inst Id & Col : AD20_1, DB1701, 0.53 mm
Volume Injected: 1.0 uL Multilevel : False
Peak Processor : Genie Application : Loop
Calculation : ExternalSTD Quantitation: AreaUnits
Result File : /DATA/RESULT/R20P20SEP002.RES
Inject Time : 1540 20Sep1999
Run Status : EndOffBaseline
UserAbortedRun

Pk #	RT	Area	Code	MASSNG	Name
1	3.55	402510	BB	.018	TCX
2	4.41	4773	BB	.001	
3	5.43	199133	BB	.008	ALPHA-BHC
4	5.70	3613	BB	.002	
5	6.51	209455	BB	.009	GAMMA-BHC
6	8.73	113716	BB	.009	BETA-BHC
7	12.35	12102	BB	.001	4,4'-DDE
8	13.58	323299	BB	.051	ENDRIN
9	14.11	7455	BB	.002	
10	14.35	10731	BB	.002	
11	15.45	178112	BB	.011	4,4'-DDD
12	16.19	1392782	BB	.102	4,4'-DDT
13	16.53	35111	BB	.008	
14	16.73	16730	BB	.004	
15	17.23	16018	BB	.001	ENDRIN ALDEH
16	17.52	9479	BB	.002	
17	18.23	35977	BB	.008	
18	18.84	1537571	BB	.223	METHOXYCHLOR
19	19.23	12102	BB	.003	
20	20.20	56828	BB	.004	ENDRIN KETONE
21	24.04	380349	BB	.020	DCB
22	25.52	3753	BB	.001	
23	28.48	9122	BB	.002	

Total Area: 5187302

Method File: /DATA/METHOD/INDABQ20.MTH
Format File: /DATA/FORMAT/DUAL_COL.FMT
Report Time: 1905 27Sep1999

1354



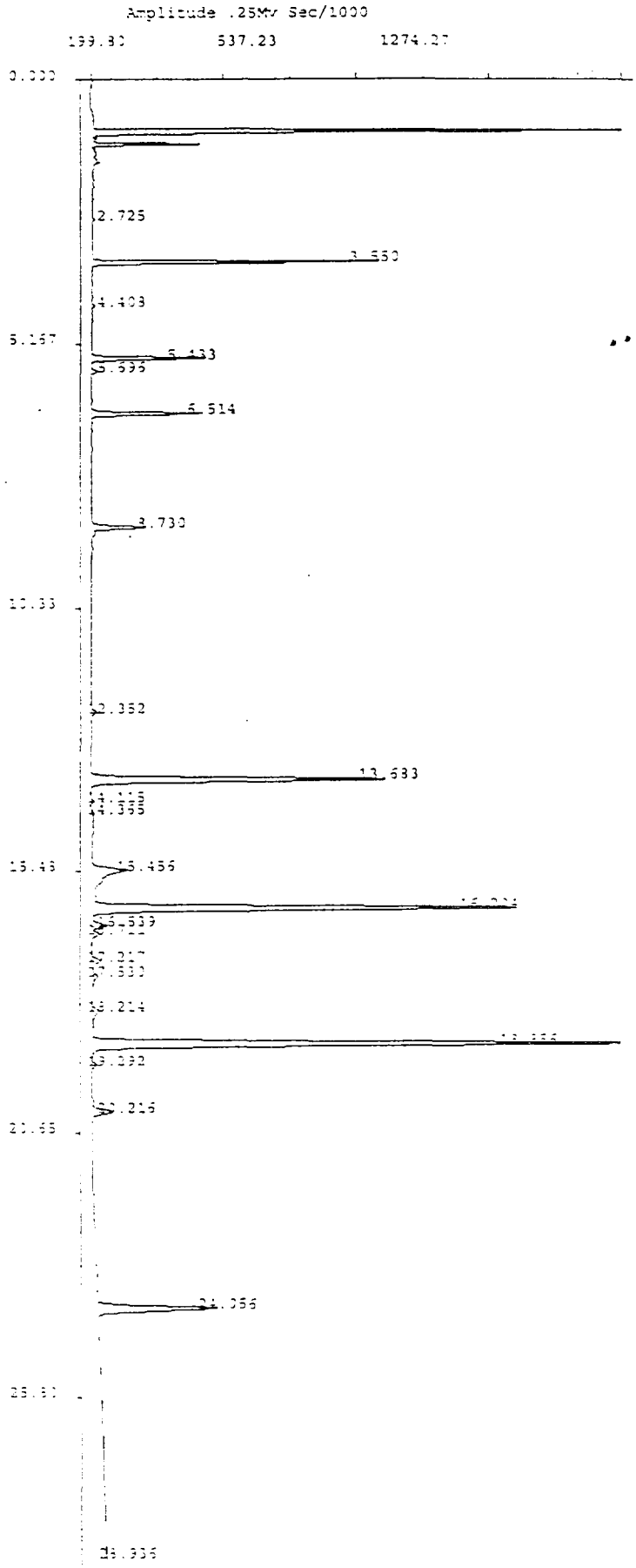
Celmic Corporation Pest/PCB Report

Sample Name : PEMCB
Lab Id : PEMCB ,I
Inst Id & Col : AD20_1, DB1701, 0.53 mm
Volume Injected: 1.0 uL Multilevel : False
Peak Processor : Genie Application : Loop
Calculation : ExternalSTD Quantitation: AreaUnits
Result File : /DATA/RESULT/R20P20SEP017.RES
Inject Time : 0128 21Sep1999
Run Status : EndOffBaseline
UserAbortedRun

Pk #	RT	Area	Code	MASSNG	Name
1	2.73	4548	BB	.001	
2	3.55	408248	BB	.019	TCX
3	4.41	4822	BB	.001	
4	5.43	205468	BB	.009	ALPHA-BHC
5	5.69	3974	BB	.002	
6	6.51	215608	BB	.009	GAMMA-BHC
7	7.21	4050	BB	.001	
8	8.72	120133	BB	.009	BETA-BHC
9	12.34	12718	BB	.001	4,4'-DDE
10	13.67	824348	BB	.051	ENDRIN
11	14.10	7776	BB	.002	
12	14.34	12771	BB	.002	
13	15.44	137744	BB	.007	4,4'-DDD
14	16.18	1121860	BB	.105	4,4'-DDT
15	16.52	36167	BB	.003	
16	16.59	13810	BB	.003	
17	17.19	29084	BB	.003	ENDRIN ALDEH
18	17.51	8725	BB	.002	
19	18.20	35291	BB	.003	
20	18.83	1574483	BB	.223	METHOXYCHLOR
21	19.27	12919	BB	.003	
22	20.19	61412	BB	.004	ENDRIN KETONE
23	24.03	384476	BB	.020	DCB
24	26.57	22025	BB	.004	

Total Area: 5235312

Method File: /DATA/METHOD/ENDA8Q20.MTH
Format File: /DATA/FORMAT/DUAL_COL.FMT
Report Time: 1924 27Sep1999



Ceimic Corporation Pest/PCB Report

Sample Name : PZM1C
Lab Id : PZM1C
Inst Id & Col : AD20_1, DB1701, 0.53 mm
Volume Injected: 1.0 uL Multilevel : False
Peak Processor : Genie Application : Loop
Calculation : ExternalSTD Quantitation: AreaUnits
Result File : /DATA/RESULT/R20P27SEP008.RES
Inject Time : 1439 27Sep1999
Run Status : RunStatusOK
EndOffBaseline

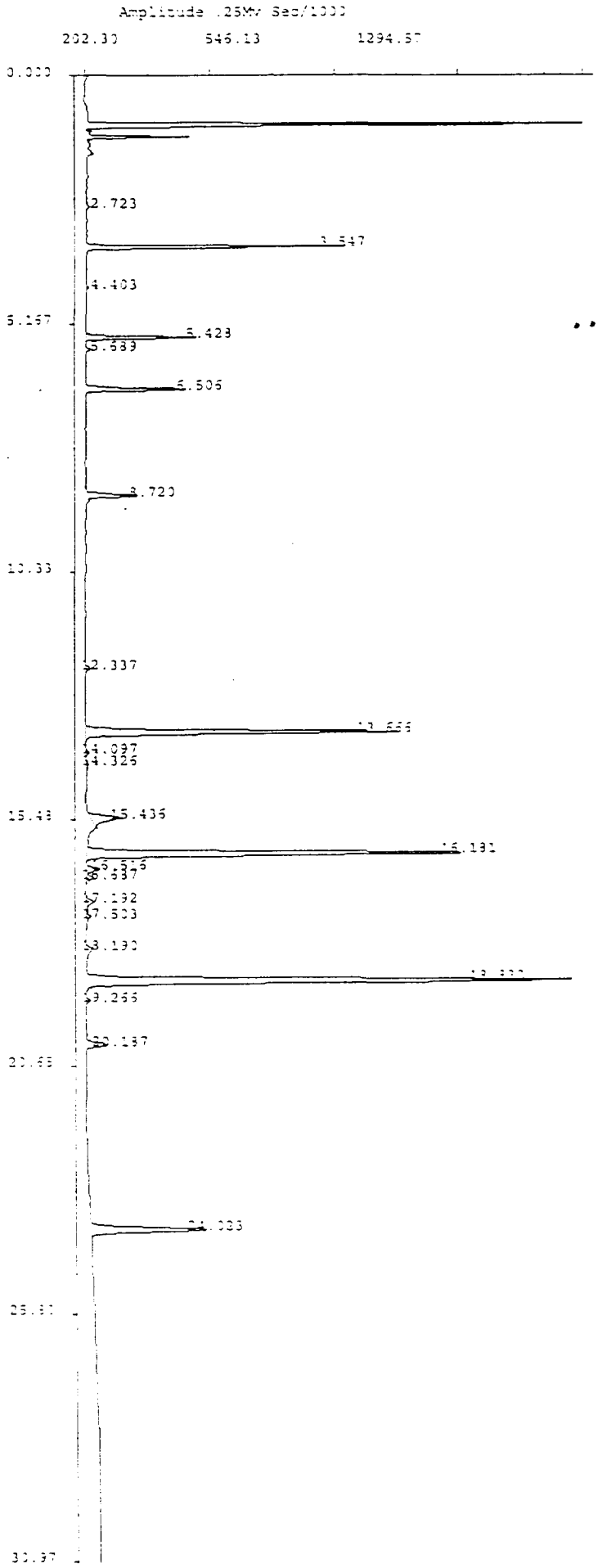
100899/3

mg/kg

Pk #	RT	Area	Code	MASSNG	Name	
1	2.73	6052	BB	.001		
2	3.55	428229	BB	.019	TCX	.020
3	4.41	5088	BB	.001		
4	5.43	196554	BB	.008	ALPHA-BHC	.010
5	5.70	10162	BB	.002		
6	6.51	207771	BB	.009	GAMMA-BHC	
7	8.73	115295	BB	.008	BETA-BHC	
8	12.35	14680	BB	.001	4,4'-DDE	—
9	13.68	859266	BB	.053	ENDRIN	.050
10	14.11	8170	BB	.002		
11	14.36	12721	BB	.003		
12	15.46	107875	BB	.007	4,4'-DDD	—
13	16.20	1258103	BB	.118	4,4'-DDT	.100
14	16.54	38680	BB	.009		
15	16.71	13877	BB	.003		
16	17.22	27584	BB	.003	ENDRIN ALDEH	—
17	17.53	15858	BB	.003		
18	18.21	33822	BB	.007		
19	18.86	1703687	BB	.247	METHOXYCHLOR	.250
20	19.29	14073	BB	.003		
21	20.22	59898	BB	.004	ENDRIN KETONE	—
22	24.06	409525	BB	.022	DCB	.020
23	28.94	31111	BB	.007		

Total Area: 5538281

Method File: /DATA/METHOD/QR20P20SEP.MTH
Format File: /DATA/FORMAT/DUAL_COL.FMT
Report Time: 1200 08Oct1999



Ceimic Corporation Pest/PCB Report

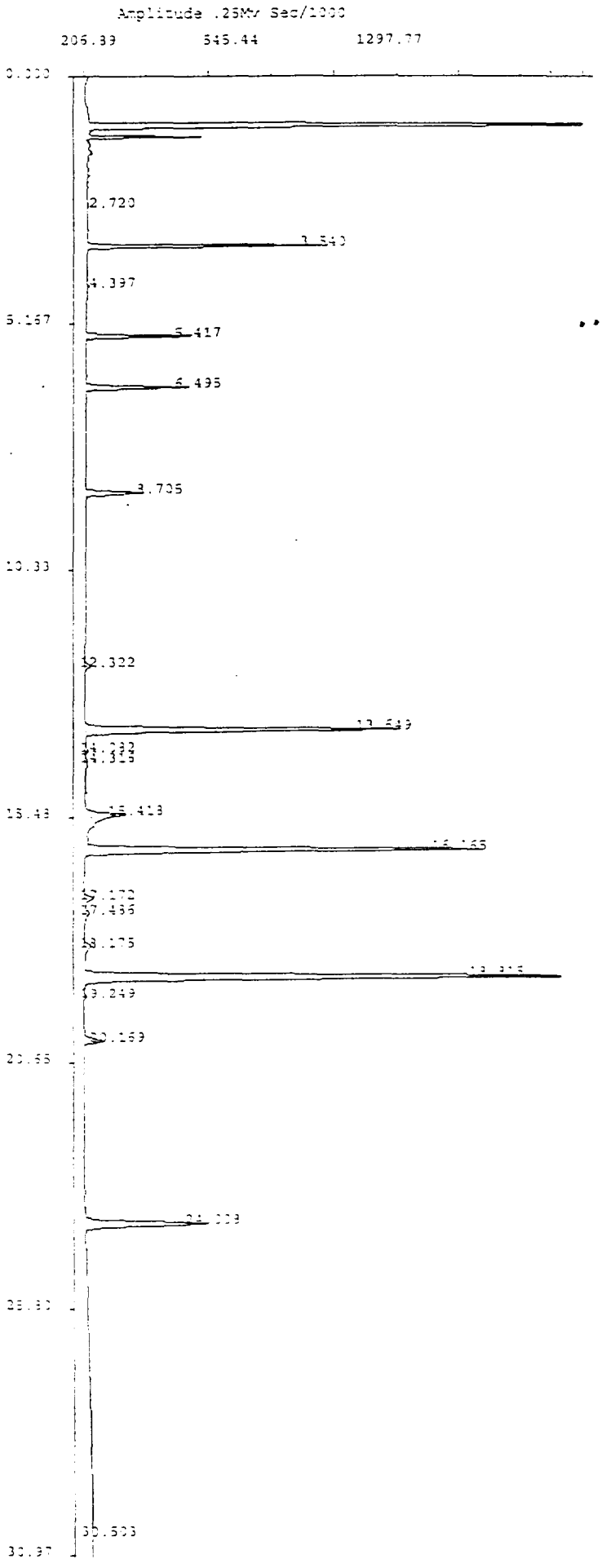
Sample Name : PEM1D
Lab Id : PEM1D
Inst Id & Col : AD20_1, DB1701, 0.53 mm
Volume Injected: 1.0 uL Multilevel : False
Peak Processor : Genie Application : Loop
Calculation : ExternalSTD Quantitation: AreaUnits
Result File : /DATA/RESULT/R20P27SEP043.RES
Inject Time : 1121 28Sep1999
Run Status : RunStatusOK

100899/S .. mg/kg

Pk #	RT	Area	Code	MASSNG	Name	
1	2.72	7100	BB	.002		
2	3.55	443588	BB	.020	TCX	.020
3	4.40	4521	BB	.001		
4	5.43	215369	BB	.009	ALPHA-BHC	.010
5	5.59	10558	BB	.002		
6	6.51	226664	BB	.009	GAMMA-BHC	
7	8.72	124829	BB	.009	BETA-BHC	
8	12.34	15535	BB	.001	4,4'-DDE	
9	13.67	918801	BB	.057	ENDRIN	.050
10	14.10	8425	BB	.002		
11	14.33	10764	BB	.002		
12	15.44	121743	BB	.008	4,4'-DDD	—
13	16.18	1236602	BB	.115	4,4'-DDT	.100
14	16.52	39441	BB	.009		
15	16.69	15369	BB	.003		
16	17.19	25169	BB	.002	ENDRIN ALDEH	—
17	17.50	12408	BB	.003		
18	18.19	34012	BB	.007		
19	18.83	1732530	BB	.251	METHOXYCHLOR	.250
20	19.27	14143	BB	.003		
21	20.19	53597	BB	.004	ENDRIN KETONE	—
22	24.02	421774	BB	.022	DCB	.020

Total Area: 5703044

Method File: /DATA/METHOD/QR20P20SEP.MTH
Format File: /DATA/FORMAT/DUAL_COL.FMT
Report Time: 1257 08Oct1999



Ceimic Corporation Pest/PCB Report

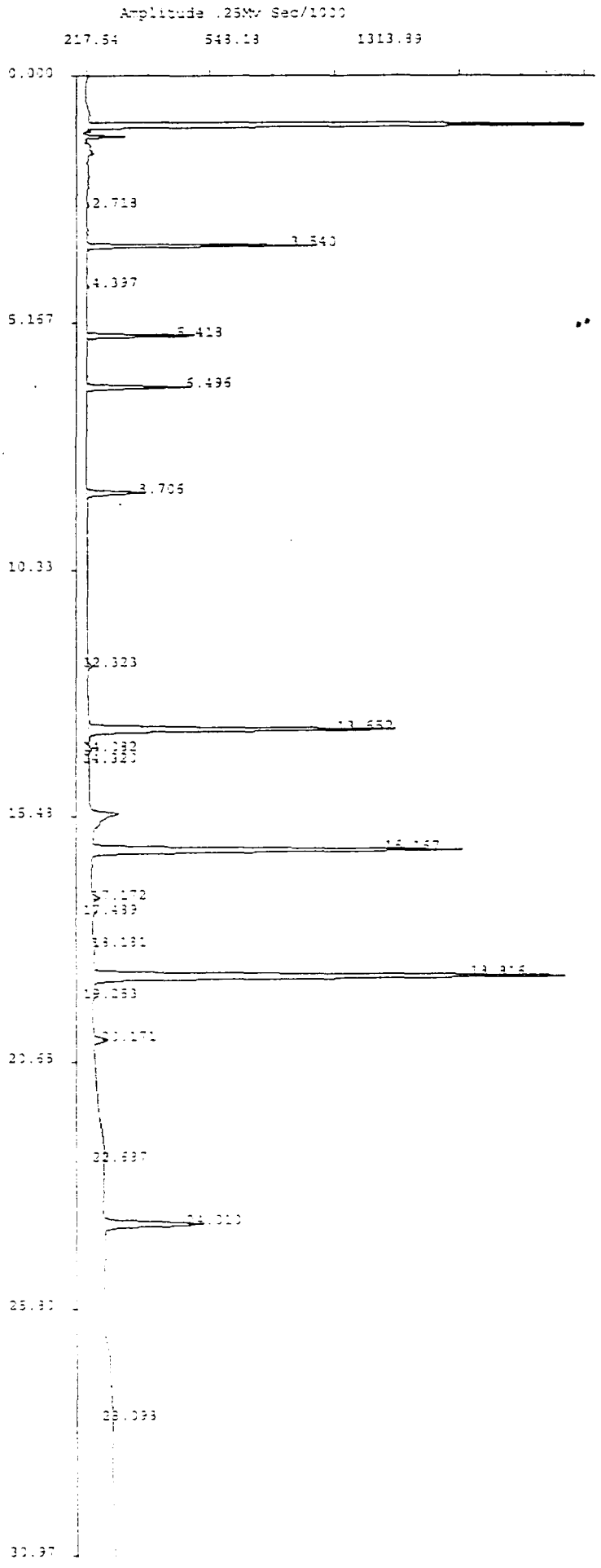
Sample Name : PEM1E
Lab Id : PEM1E
Inst Id & Col : AD20_1, DB1701, 0.53 mm
Volume Injected: 1.0 uL Multilevel : False
Peak Processor : Genie Application : Loop
Calculation : ExternalSTD Quantitation: AreaUnits
Result File : /DATA/RESULT/R20P05OCT041.RES
Inject Time : 0813 06Oct1999
Run Status : RunStatusOK

100849/3

Pk #	RT	Area	Code	MASSNG	Name	ng/mg
1	2.72	5119	BB	.001		
2	3.54	440182	BB	.020	TCX	.020
3	4.40	5347	BB	.001		
4	5.42	225776	BB	.009	ALPHA-BHC	.010
5	6.50	223310	BB	.009	GAMMA-BHC	
6	8.71	148490	BB	.011	BETA-BHC	
7	12.32	17029	BB	.001	4,4'-DDE	—
8	13.65	927237	BB	.057	ENDRIN	.050
9	14.08	8677	BB	.002		
10	14.32	18297	BB	.004		
11	15.42	136992	BB	.009	4,4'-DDD	—
12	16.17	1220718	BB	.114	4,4'-DDT	.100
13	17.17	27879	BB	.003	ENDRIN ALDEH	—
14	17.49	13783	BB	.003		
15	18.18	36611	BB	.008		
16	18.81	1732007	BB	.251	METHOXYCHLOR	.250
17	19.25	7615	BB	.002		
18	20.17	59366	BB	.004	ENDRIN KETONE	—
19	24.01	446922	BB	.024	DCB	.020
20	30.50	59639	BB	.015		

Total Area: 5771544

Method File: /DATA/METHOD/QR20P20SEP.MTH
Format File: /DATA/FORMAT/DUAL_COL.FMT
Report Time: 1303 08Oct1999



Ceimic Corporation Pest/PCB Report

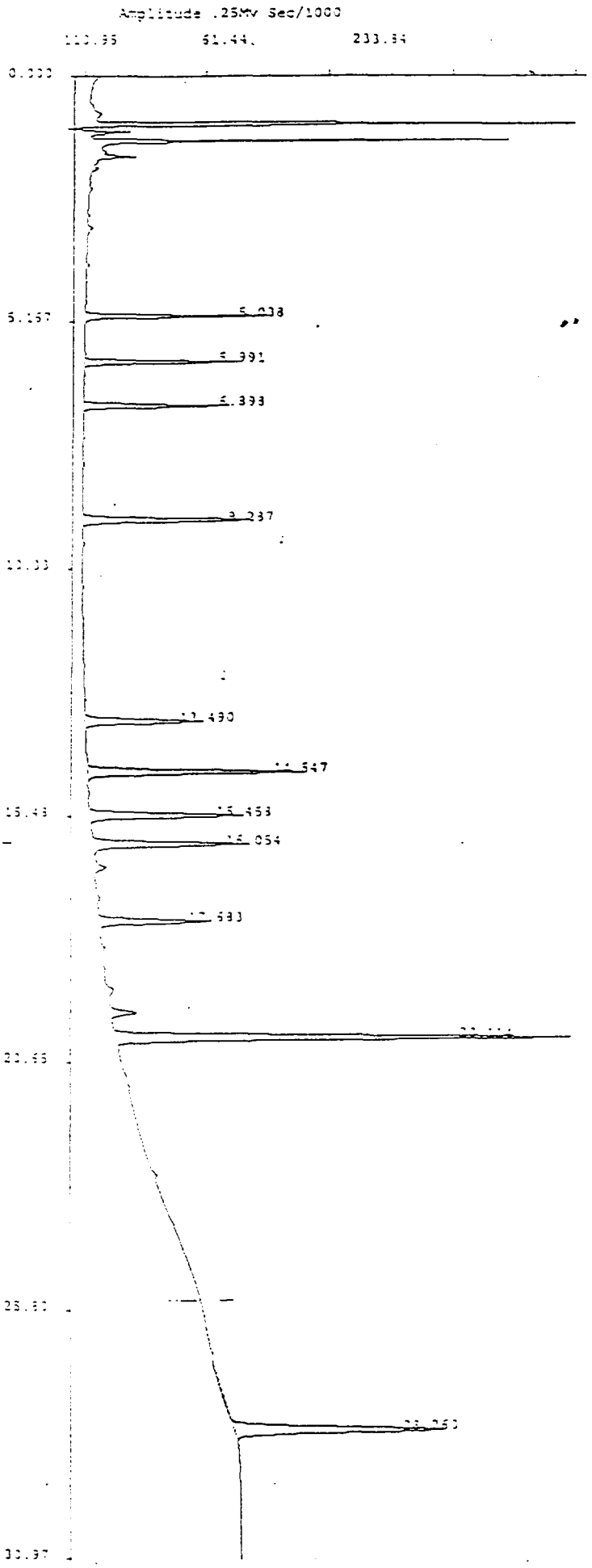
Sample Name : PEM1F
Lab Id : PEM1F
Inst Id & Col : AD20_1, DB1701, 0.53 mm
Volume Injected: 1.0 uL Multilevel : False
Peak Processor : Genie Application : Loop
Calculation : ExternalSTD Quantitation: AreaUnits
Result File : /DATA/RESULT/R20P05OCT076.RES
Inject Time : 0445 07Oct1999
Run Status : RunStatusOK
EndOffBaseline

100899/5

Pk #	RT	Area	Code	MASSNG	Name	ng/uj
1	2.72	5601	BB	.001		
2	3.54	437083	BB	.020	TCX	.020
3	4.40	5500	BB	.001		
4	5.42	241394	BB	.010	ALPHA-BHC	.010
5	6.50	236834	BB	.010	GAMMA-BHC	
6	8.71	152232	BB	.011	BETA-BHC	
7	12.32	13378	BB	.001	4,4'-DDE	
8	13.65	929207	BB	.057	ENDRIN	.050
9	14.08	8249	BB	.002		
10	14.32	4844	BB	.001		
11	16.17	1166229	BB	.109	4,4'-DDT	.100
12	17.17	23535	BB	.002	ENDRIN ALDEH	—
13	17.49	8662	BB	.002		
14	18.18	27673	BB	.006		
15	18.32	1700684	BB	.247	METHOXYCHLOR	.250
16	19.25	6910	BB	.002		
17	20.17	49793	BB	.003	ENDRIN KETONE	—
18	22.69	44007	BB	.010		
19	24.01	376857	BB	.020	DCB	.020
20	28.10	29611	BB	.007		

Total Area: 5468288

Method File: /DATA/METHOD/QR20P20SEP.MTH
Format File: /DATA/FORMAT/DUAL_COL.FMT
Report Time: 1329 08Oct1999



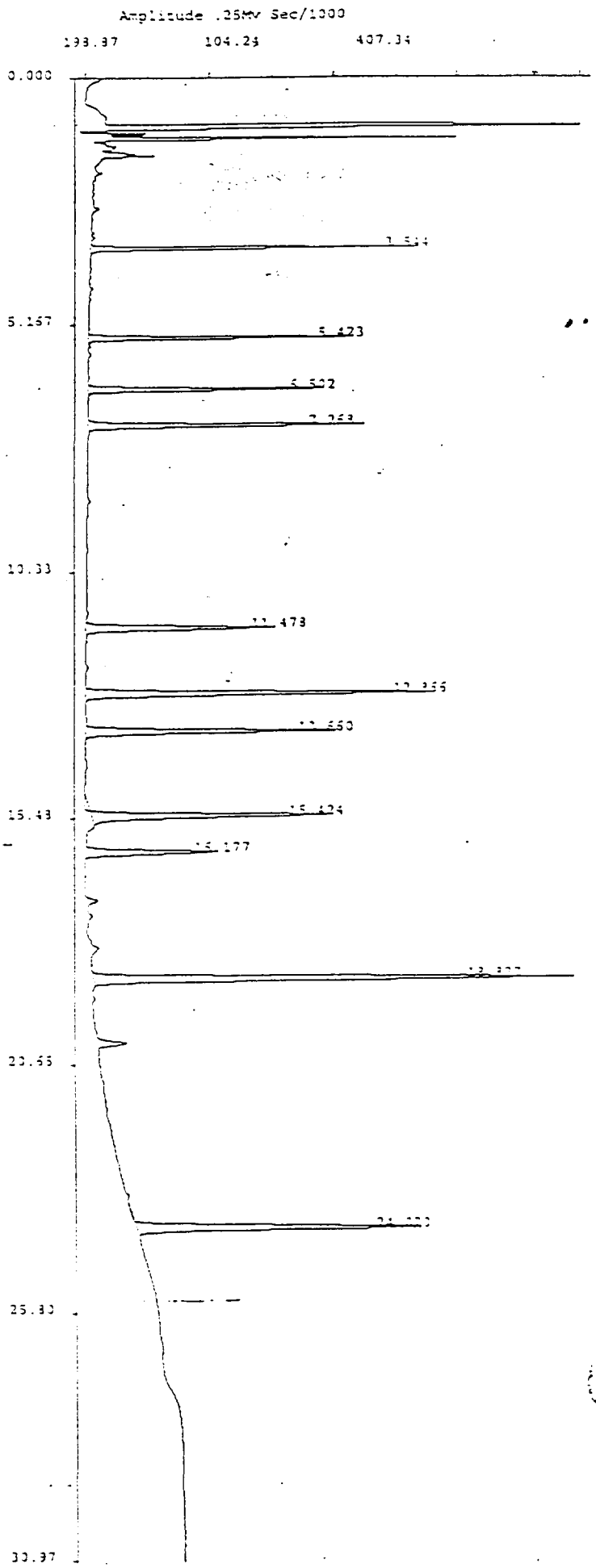
Celmic Corporation Pest/PCB Report

Sample Name : INDAL0A
Lab Id : INDAL0A ,I
Inst Id & Col : AD19_1, DB5, 0.53mm
Volume Injected: 1.0 uL Multilevel : False
Peak Processor : Genie Application : Loop
Calculation : ExternalSTD Quantitation: AreaCnts
Result File : /DATA/RESULT/R19P20SEP010.RES
Inject Time : 2121 20Sep1999
Run Status : RunStatusOK
EndOffBaseline

Pk #	RT	Area	Code	MASSNG	Name
1	5.04	44511	BB	.005	TCX
2	5.99	40513	BB	.004	ALPHA-BHC
3	6.90	42327	BB	.004	GAMMA-BHC
4	9.29	56218	BB	.005	HEPTACHLOR
5	13.49	45902	BB	.005	ENDOSULF. I
6	14.55	83529	BB	.009	DIELDRIN
7	15.46	61145	BB	.009	ENDRIN
8	16.05	64303	BB	.009	4,4'-DDD
9	17.53	46718	BB	.008	4,4'-DDT
10	20.21	189013	BB	.045	METHOXYCHLOR
11	23.26	103079	BB	.010	DCB

Total Area: 732762

Method File: /DATA/METHOD/INDAB013.MTH
Format File: /DATA/FORMAT/DUAL_COL.FMT
Report Time: 1347 27Sep1999



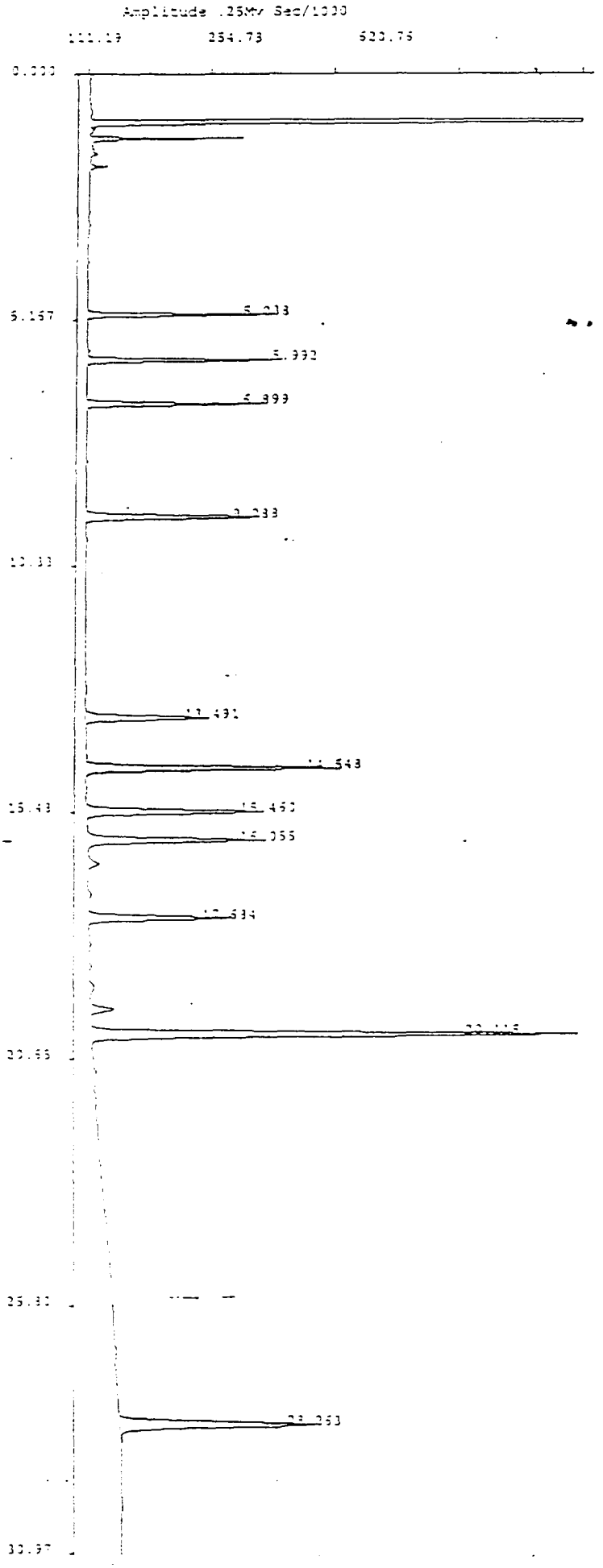
Celmic Corporation Pest/PCB Report

Sample Name : INDAL1A
Lab Id : INDAL1A ,I
Inst Id & Col : AD20_1, DB1701, 0.53 mm
Volume Injected: 1.0 uL Multilevel : False
Peak Processor : Genie Application : Loop
Calculation : ExternalSTD Quantitation: AreaUnits
Result File : /DATA/RESULT/R20P20SEP010.RES
Inject Time : 2121 20Sep1999
Run Status : RunStatusOK

Pk #	RT	Area	Code	MASSNG	Name
1	3.54	109379	BB	.005	TCX
2	5.42	103127	BB	.004	ALPHA-BHC
3	6.50	107325	BB	.004	GAMMA-BHC
4	7.27	129035	BB	.005	HEPTACHLOR
5	11.43	109794	BB	.005	ENDOSULF. I
6	12.37	200647	BB	.009	DIELDRIN
7	13.66	147239	BB	.009	ENDRIN
8	15.42	139444	BB	.009	4,4'-DDD
9	16.13	81899	BB	.008	4,4'-DDT
10	18.83	311679	BB	.045	METHOXYCHLOR
11	24.22	198966	BB	.010	DCB

Total Area: 1638535

Method File: /DATA/METHOD/INDABQ20.MTH
Format File: /DATA/FORMAT/DUAL_COL.FMT
Report Time: 1915 27Sep1999



Celmic Corporation Pest/PCB Report

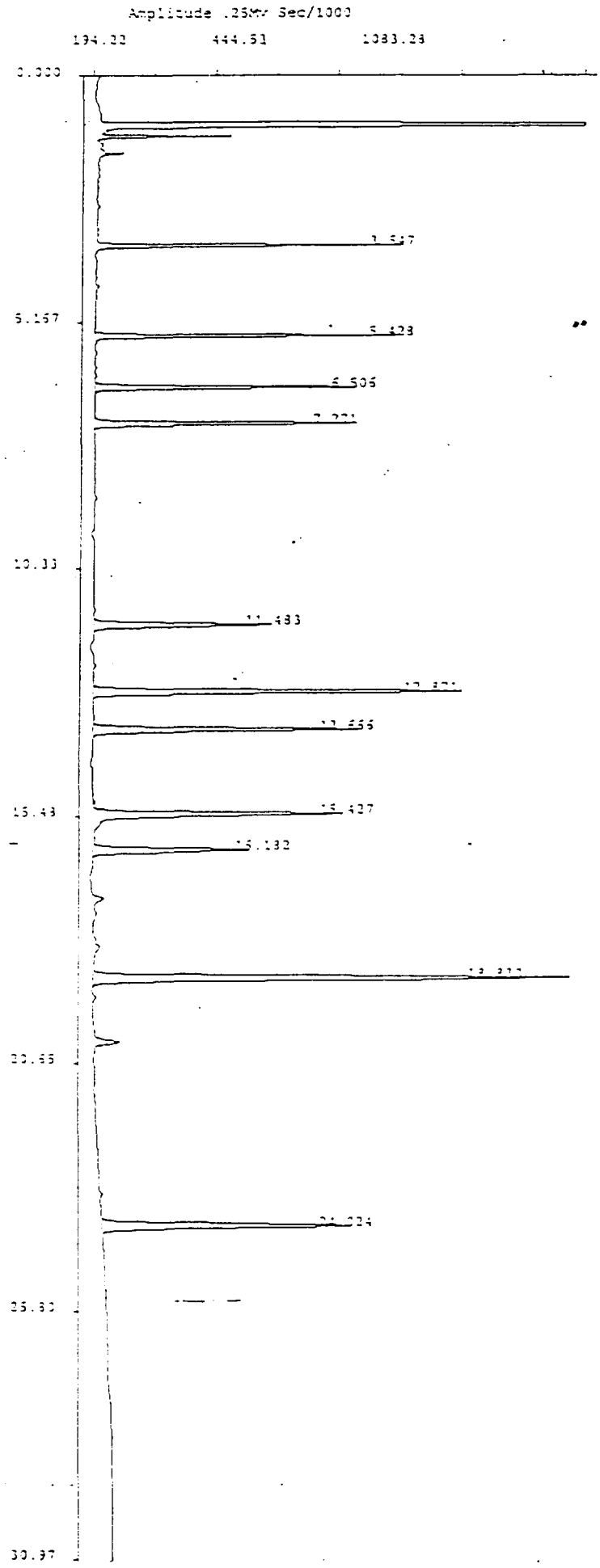
Sample Name : INDAM0A
Lab Id : INDAM0A ,I
Inst Id & Col : AD19_1, DB5, 0.53mm
Volume Injected: 1.0 uL Multilevel : False
Peak Processor : Genie Application : Loop
Calculation : ExternalSTD Quantitation: AreaUnits
Result File : /DATA/RESULT/R19P20SEP012.RES
Inject Time : 2232 20Sep1999
Run Status : UserAbortedRun

Pk #	RT	Area	Code	MASSNG	Name
1	5.04	182546	BB	.020	TCX
2	5.99	201032	BB	.020	ALPHA-BHC
3	6.90	201350	BB	.020	GAMMA-BHC
4	9.29	236174	BB	.020	HEPTACHLOR
5	13.49	194912	BB	.020	ENDOSULF. I
6	14.55	382651	BB	.040	DIELDRIN
7	15.46	273839	BB	.040	ENDRIN
8	16.26	287037	BB	.040	4,4'-DDD
9	17.63	237828	BB	.040	4,4'-DDT
10	20.11	838381	BB	.200	METHOXYCHLOR
11	28.26	453563	BB	.040	DCB

Total Area: 3489393

Method File: /DATA/METHOD/INDA3Q19.MTH
Format File: /DATA/FORMAT/DUAL_COL.FMT
Report Time: 1343 27Sep1999

1362



Celmic Corporation Pest/PCB Report

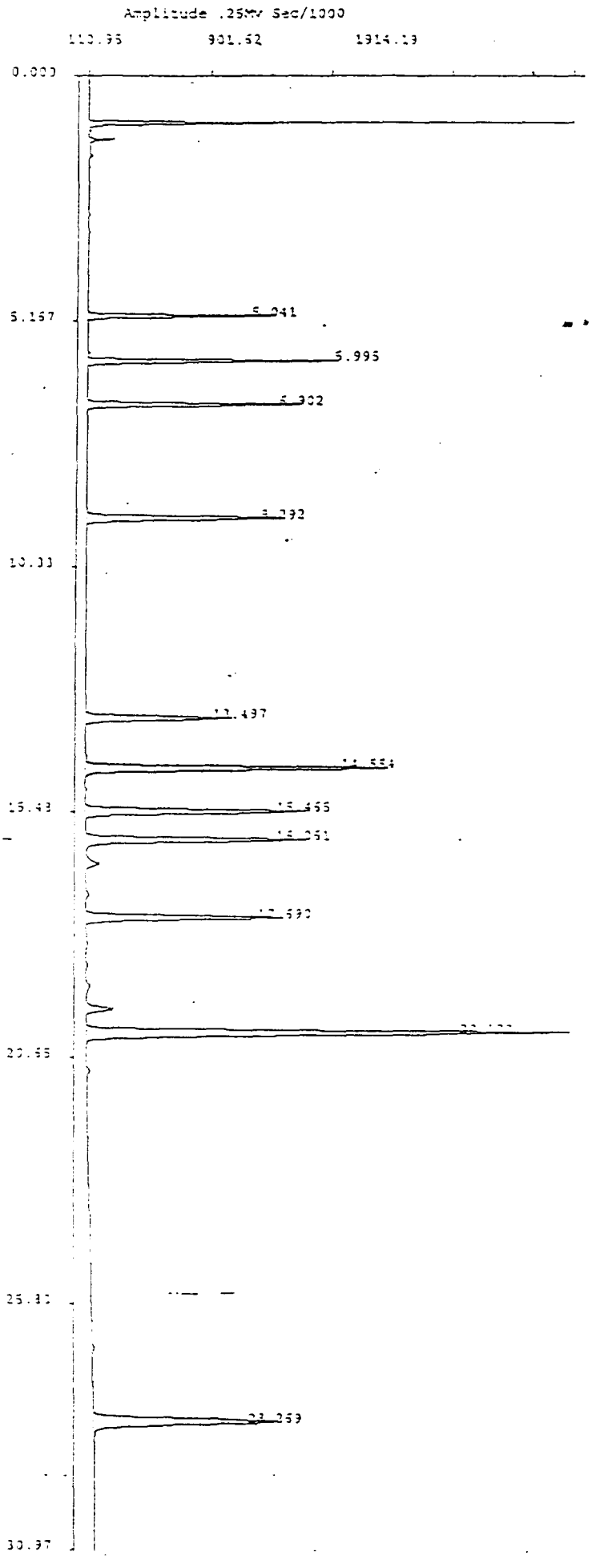
Sample Name : INDAM1A
Lab Id : INDAM1A ,I
Inst Id & Col : AD20_1, DB1701, 0.53 mm
Volume Injected: 1.0 uL Multilevel : False
Peak Processor : Genie Application : Loop
Calculation : ExternalSTD Quantitation: AreaUnits
Result File : /DATA/RESULT/R10P20SEP012.RES
Inject Time : 2232 20Sep1999
Run Status : RunStatusOK

Pk #	RT	Area	Code	MASSNG	Name
1	3.55	440130	BB	.020	TCX
2	5.43	482474	BB	.020	ALPHA-BHC
3	6.51	487191	BB	.020	GAMMA-BHC
4	7.27	519828	BB	.020	HEPTACHLOR
5	11.48	448836	BB	.020	ENDOSULF. I
6	12.87	901361	BB	.040	DIELDRIN
7	13.67	550450	BB	.040	ENDRIN
8	15.43	528700	BB	.040	4,4'-DDD
9	16.18	428849	BB	.040	4,4'-DDT
10	18.83	1378513	BB	.200	METHOXYCHLOR
11	24.02	760392	BB	.040	DCB

Total Area: 7126727

Method File: /DATA/METHOD/INDAB020.MTH
Format File: /DATA/FORMAT/DUAL_COL.FMT
Report Time: 1318 27Sep1999

1383



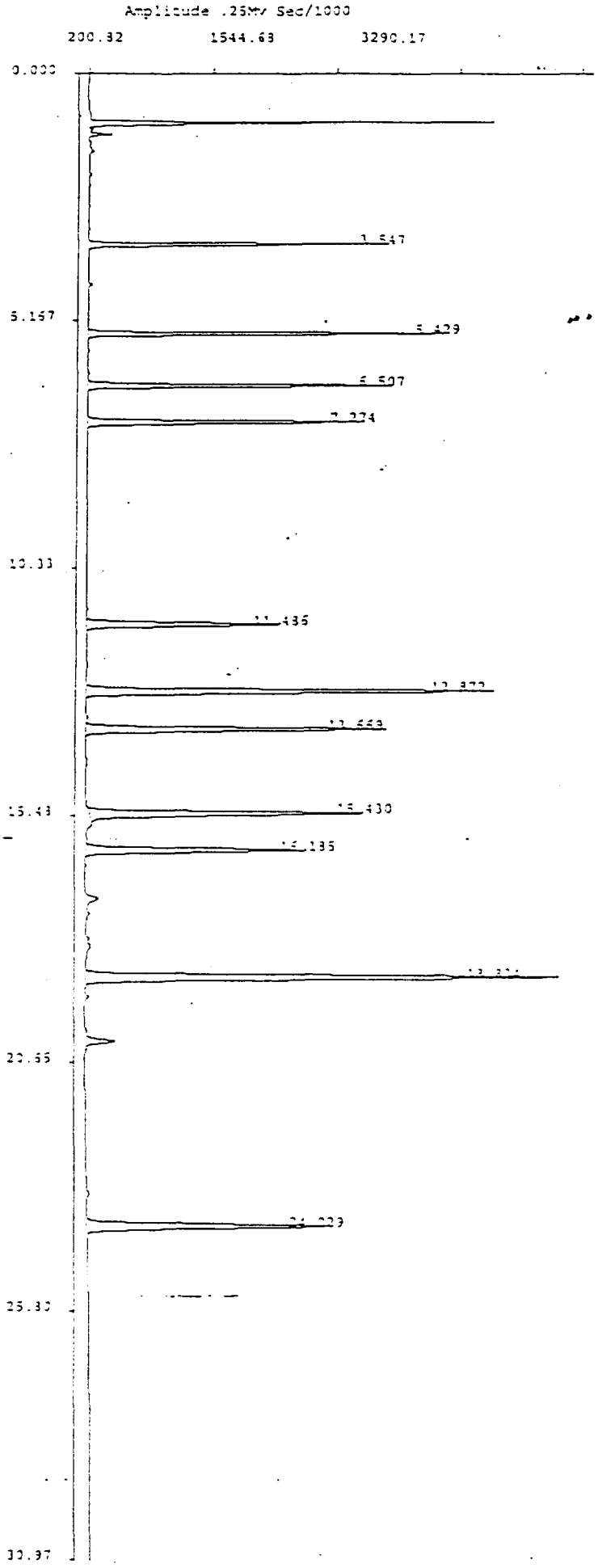
Celmic Corporation Pest/PCB Report

Sample Name : INDAE0A
Lab Id : INDAE0A ,I
Inst Id & Col : AD19_1, DB5, 0.53mm
Volume Injected: 1.0 uL Multilevel : False
Peak Processor : Genie Application : Loop
Calculation : ExternalSTD Quantitation: AreaUnits
Result File : /DATA/RESULT/R19P20SEP014.RES
Inject Time : 2342 20Sep1999
Run Status : RunStatusOK

Pk #	RT	Area	Code	MASSNG	Name
1	5.04	577129	BB	.074	TCX
2	6.00	977333	BB	.097	ALPHA-BHC
3	6.90	925131	BB	.092	GAMMA-BHC
4	9.29	958230	BB	.081	HEPTACHLOR
5	13.50	803511	BB	.083	ENDOSULF. I
6	14.55	1675983	BB	.175	DIELDRIN
7	15.46	1214652	BB	.177	ENDRIN
8	16.06	1263432	BB	.176	4,4'-DDD
9	17.69	1141601	BB	.192	4,4'-DDT
10	20.12	3050059	BS	.728	METHOXYCHLOR
11	28.27	1557014	BB	.137	DCB

Total Area: 14250188

Method File: /DATA/METHOD/INDAEQ19.MTH
Format File: /DATA/FORMAT/DUAL_COL.FMT
Report Time: 1352 27Sep1999



Celmic Corporation Pest/PCB Report

Sample Name : INDABLA
Lab Id : INDABLA ,I
Inst Id & Col : AD20_1, DB1701, 0.53 mm
Volume Injected: 1.0 uL Multilevel : False
Peak Processor : Genie Application : Loop
Calculation : ExternalSTD Quantitation: AreaUnits
Result File : /DATA/RESULT/R20P20SEP014.RES
Inject Time : 2342 20Sep1999
Run Status : RunStatusOK
EndOffBaseline

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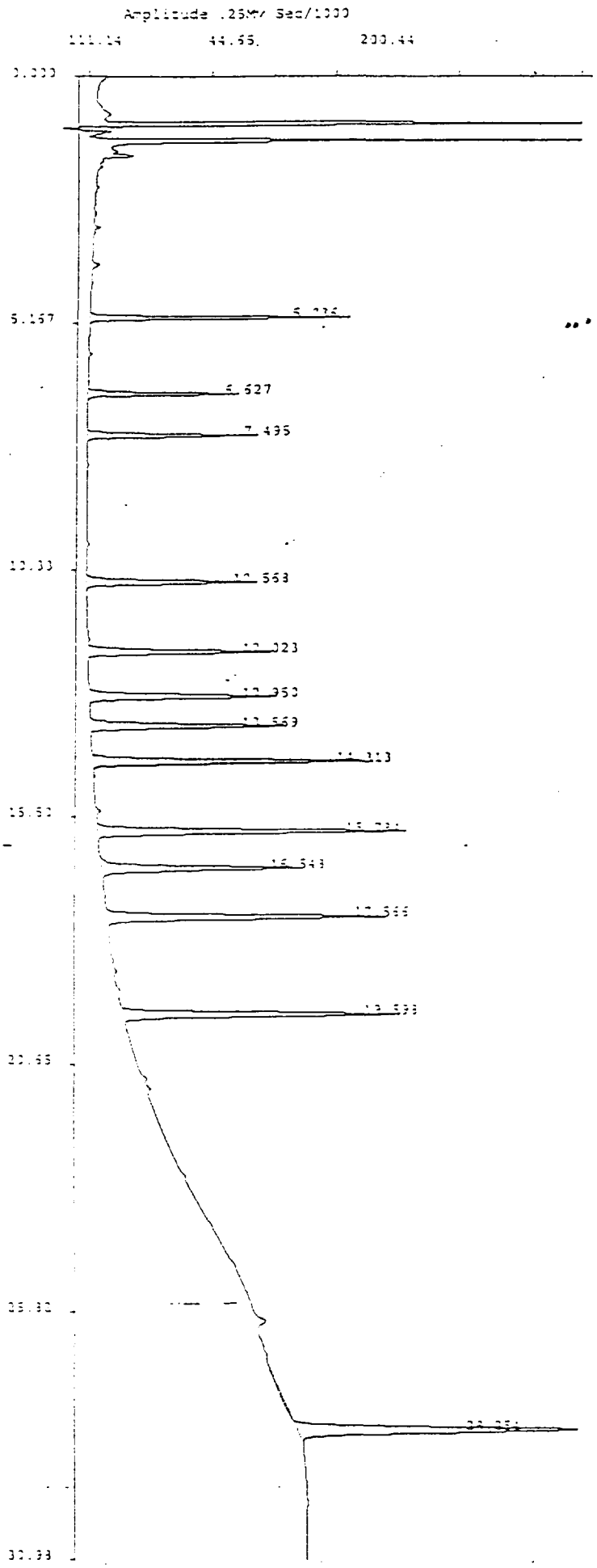
Pk #	RT	Area	Code	MASSNG	Name	ng/mg
1	3.55	1509760	BS	.069	TCX	.050
2	5.43	2011960	BS	.083	ALPHA-BHC	
3	6.51	1959690	BS	.080	GAMMA-BHC	
4	7.27	1936247	BS	.077	HEPTACHLOR	
5	11.49	1735571	BB	.077	ENDOSULF. I	
6	12.87	3549459	BS	.158	DIELDRIN	-160
7	13.67	2517273	BS	.161	ENDRIN	
8	15.43	2583289	BS	.164	4,4'-DDD	
9	16.19	2025169	BB	.189	4,4'-DDT	
10	18.83	4913292	BS	.713	METHOXYCHLOR	- 500
11	24.03	2559355	BB	.135	DCB	-160

Total Area: 27452363

Method File: /DATA/METHOD/INDABQ20.MTH
Format File: /DATA/FORMAT/DUAL_COL.FMT
Report Time: 1320 27Sep1999

1305



Celmic Corporation Pest/PCB Report

Sample Name : INDBL0A
Lab Id : INDBL0A ,I
Inst Id & Col : AD19_1, DB5, 0.53mm
Volume Injected: 1.0 uL Multilevel : False
Peak Processor : Genie Application : Loop
Calculation : ExternalSTD Quantitation: AreaUnits
Result File : /DATA/RESULT/R19P20SEP011.RES
Inject Time : 2157 20Sep1999
Run Status : RunStatusOK

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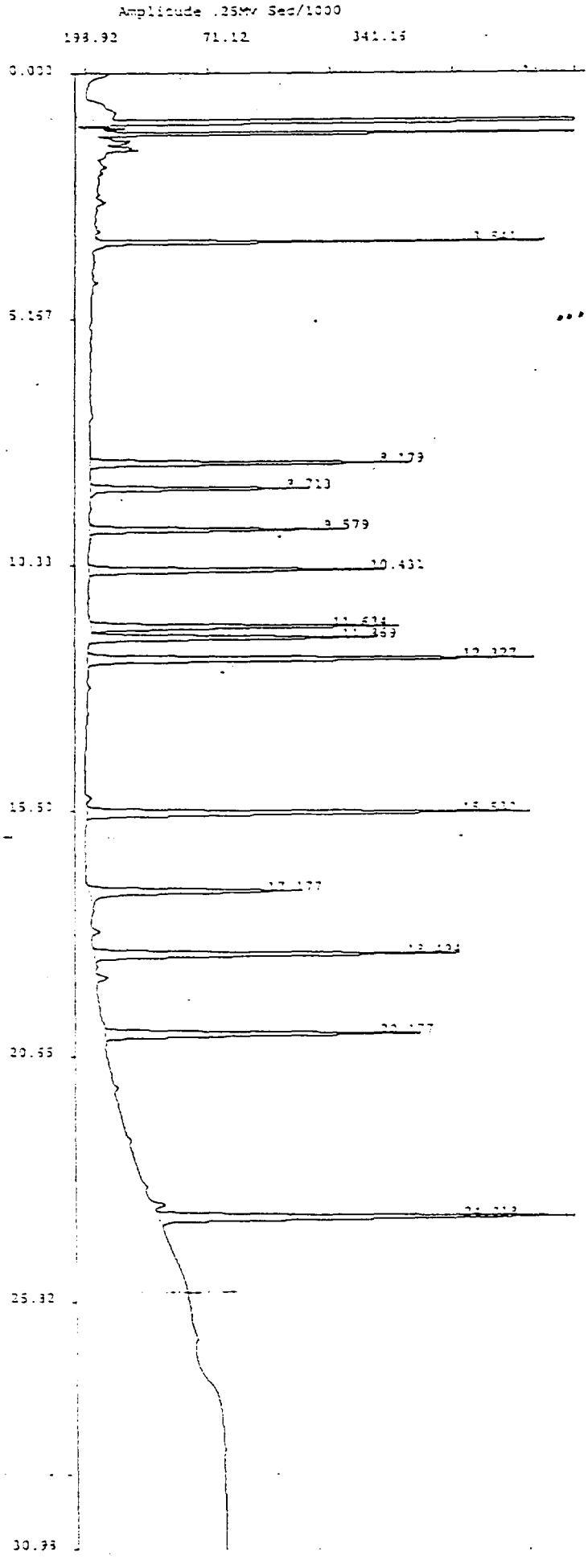
Pk #	RT	Area	Code	MASSNG	Name
1	5.04	45047	BB	.005	TCX
2	6.63	30169	BB	.005	BETA-BHC
3	7.49	36399	BB	.004	DELTA-BHC
4	10.57	44559	BB	.005	ALDRIN
5	12.02	49778	BB	.005	H. EPOXIDE
6	12.95	54387	BB	.005	G. CHLORDANE
7	13.57	53531	BB	.005	A. CHLORDANE
8	14.31	77509	BB	.009	4,4'-DDE
9	15.78	36502	BB	.009	ENDOSULF. II
10	16.55	60196	BB	.010	ENDRIN ALDEH
11	17.57	34535	BB	.010	ENDO. SULFAT
12	19.60	31952	BB	.009	ENDRIN KETONE
13	28.25	106819	BB	.009	DCB

Total Area: 811432

Method File: /DATA/METHOD/INDAB013.MTH
Format File: /DATA/FORMAT/DUAL_COL.FMT
Report Time: 1343 27Sep1999



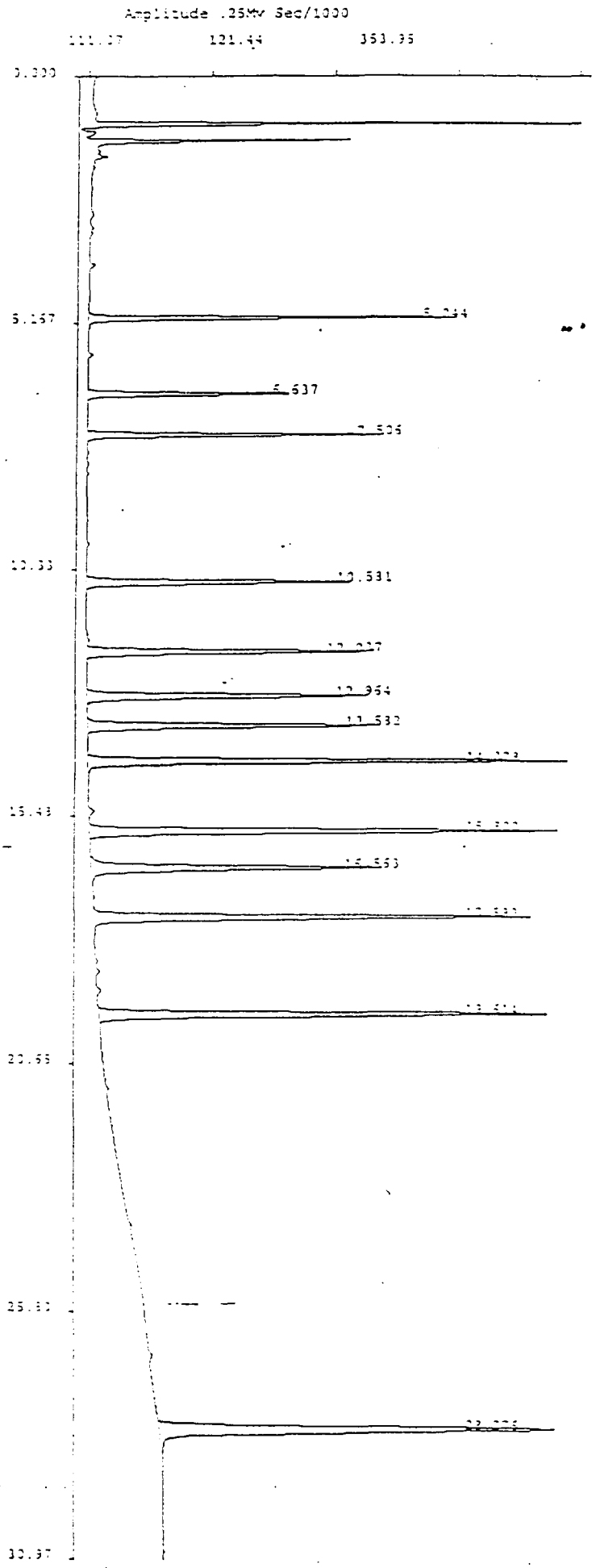
Celmic Corporation Pest/PCB Report

Sample Name : INDBL1A
Lab Id : INDBL1A ,I
Inst Id & Col : AD20_1, DB1701, 0.53 mm
Volume Injected: 1.0 uL Multilevel : False
Peak Processor : Genie Application : Loop
Calculation : ExternalSTD Quantitation: AreaUnits
Result File : /DATA/RESULT/R20P20SEP011.RES
Inject Time : 2157 20Sep1999
Run Status : RunStatusOK

Pk #	RT	Area	Code	MASSNG	Name
1	3.54	105524	BB	.005	TCX
2	8.18	108552	BB	.005	ALDRIN
3	8.71	72690	BB	.005	BETA-BHC
4	9.58	88221	BB	.004	DELTA-BHC
5	10.43	118591	BB	.005	H. EPOXIDE
6	11.63	119199	BB	.005	G. CHLORDANE
7	11.87	119965	BB	.005	A. CHLORDANE
8	12.33	183961	BB	.009	4,4'-DDE
9	15.53	186069	BB	.010	ENDOSULF. II
10	17.18	98613	BB	.009	ENDRIN ALDEH
11	18.49	159691	BB	.010	ENDO. SULFAT
12	20.18	137379	BB	.010	ENDRIN KETONE
13	24.02	197431	BB	.010	DCB

Total Area: 1595885

Method File: /DATA/METHOD/INDABQ20.MTH
Format File: /DATA/FORMAT/DUAL_COL.FMT
Report Time: 1916 27Sep1999



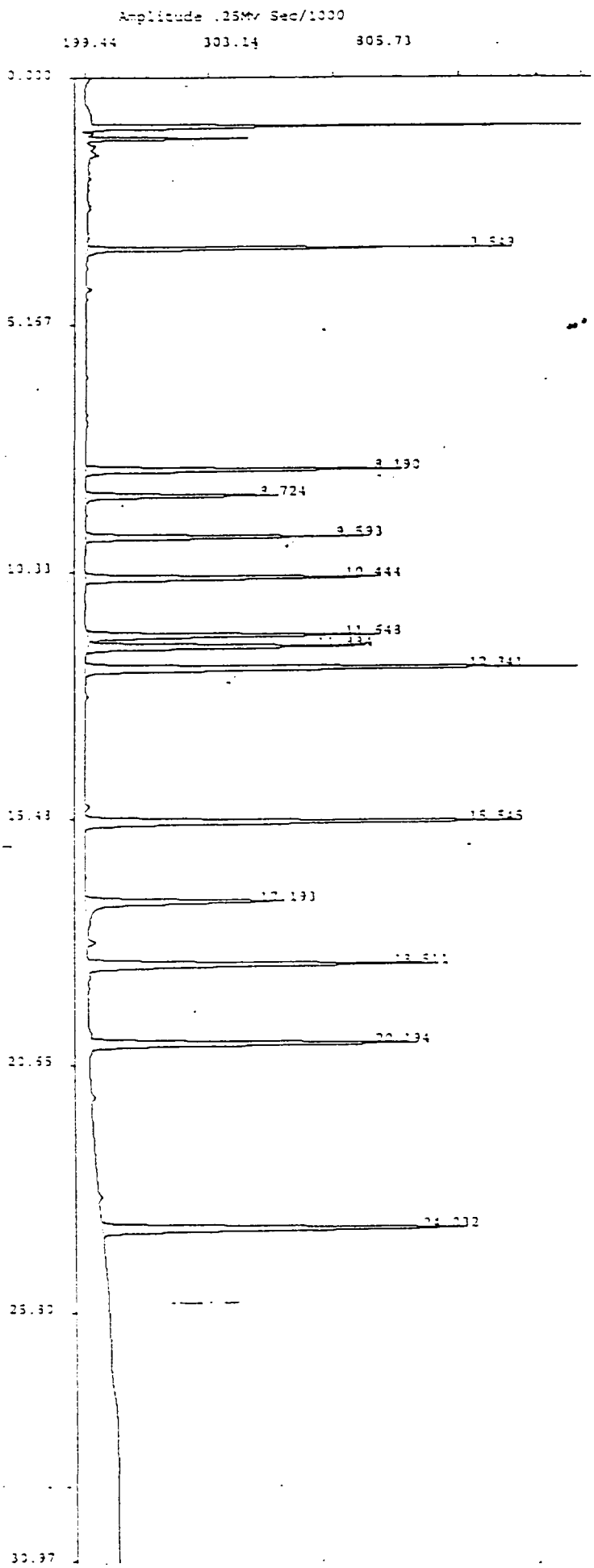
Celmic Corporation Pest/PCB Report

Sample Name : INDBM0A
Lab Id : INDBM0A .I
Inst Id & Col : AD19_1, DB5, 0.53mm
Volume Injected: 1.0 uL
Multilevel : False
Peak Processor : Genie
Application : Loop
Calculation : ExternalSTD
Quantitation: AreaUnits
Result File : /DATA/RESULT/R19P20SEP013.RES
Inject Time : 2307 20Sep1999
Run Status : RunStatusOK

Pk #	RT	Area	Code	MASSNG	Name
1	5.04	177291	BB	.019	TCX
2	6.64	119425	BB	.020	BETA-BHC
3	7.51	157124	BB	.020	DELTA-BHC
4	10.58	187311	BB	.020	ALDRIN
5	12.04	202548	BB	.020	H. EPOXIDE
6	12.95	214133	BB	.020	G. CHLORDANE
7	13.58	214819	BB	.020	A. CHLORDANE
8	14.33	344945	BB	.040	4,4'-DDE
9	15.80	366140	BB	.040	ENDOSULF. II
10	16.56	243705	BB	.040	ENDRIN ALDEH
11	17.58	347899	BB	.040	ENDO. SULFAT
12	19.61	364875	BB	.040	ENDRIN KETONE
13	28.28	440990	BB	.039	DCB

Total Area: 3331205

Method File: /DATA/METHOD/INDA3Q19.MTH
Format File: /DATA/FORMAT/DUAL_COL.FMT
Report Time: 1353 27Sep1999



Celmic Corporation Pest/PCB Report

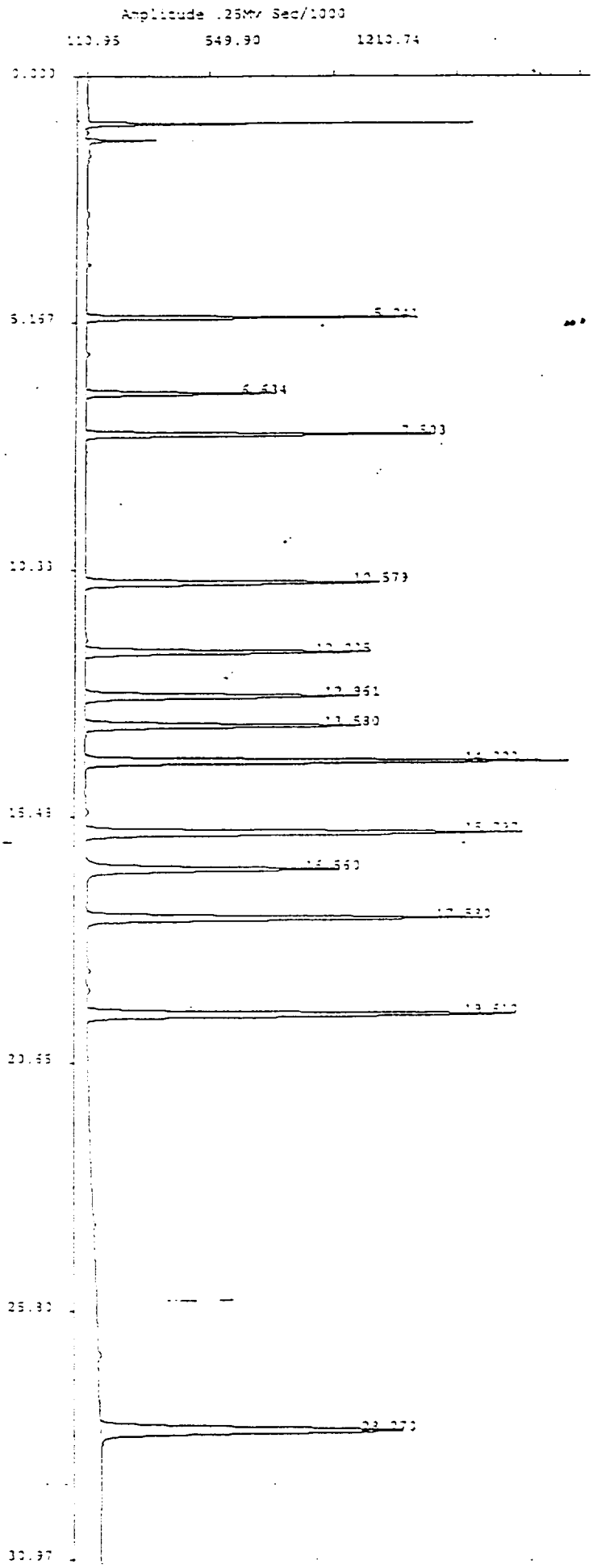
Sample Name : INDBMLA
Lab Id : INDBMLA ,I
Inst Id & Col : AD20_1, DB1701, 0.53 mm
Volume Injected: 1.0 uL Multilevel : False
Peak Processor : Genie Application : Loop
Calculation : ExternalSTD Quantitation: AreaUnits
Result File : /DATA/RESULT/R20P20SEP013.RES
Inject Time : 2307 20Sep1999
Run Status : RunStatusOK
EndOffBaseline

Pk #	RT	Area	Code	MASSNO	Name
1	3.55	429175	BB	.020	TCX
2	8.19	463141	BB	.020	ALDRIN
3	8.72	278883	BB	.020	BETA-BHC
4	9.59	393339	BB	.020	DELTA-BHC
5	10.44	476871	BB	.020	H. EPOXIDE
6	11.65	473206	BB	.020	G. CHLORDANE
7	11.88	479502	BB	.020	A. CHLORDANE
8	12.34	818101	BB	.040	4,4'-DDE
9	15.55	758533	BB	.040	ENDOSULF. II
10	17.19	434689	BB	.040	ENDRIN ALDEH
11	18.51	629678	BB	.040	ENDO. SULFAT
12	20.19	575935	BB	.040	ENDRIN KETONE
13	24.03	740894	BB	.039	DCB

Total Area: 5951350

Method File: /DATA/METHOD/INDA3Q20.MTH
Format File: /DATA/FORMAT/DUAL_COL.FMT
Report Time: 1313 27Sep1999

1309



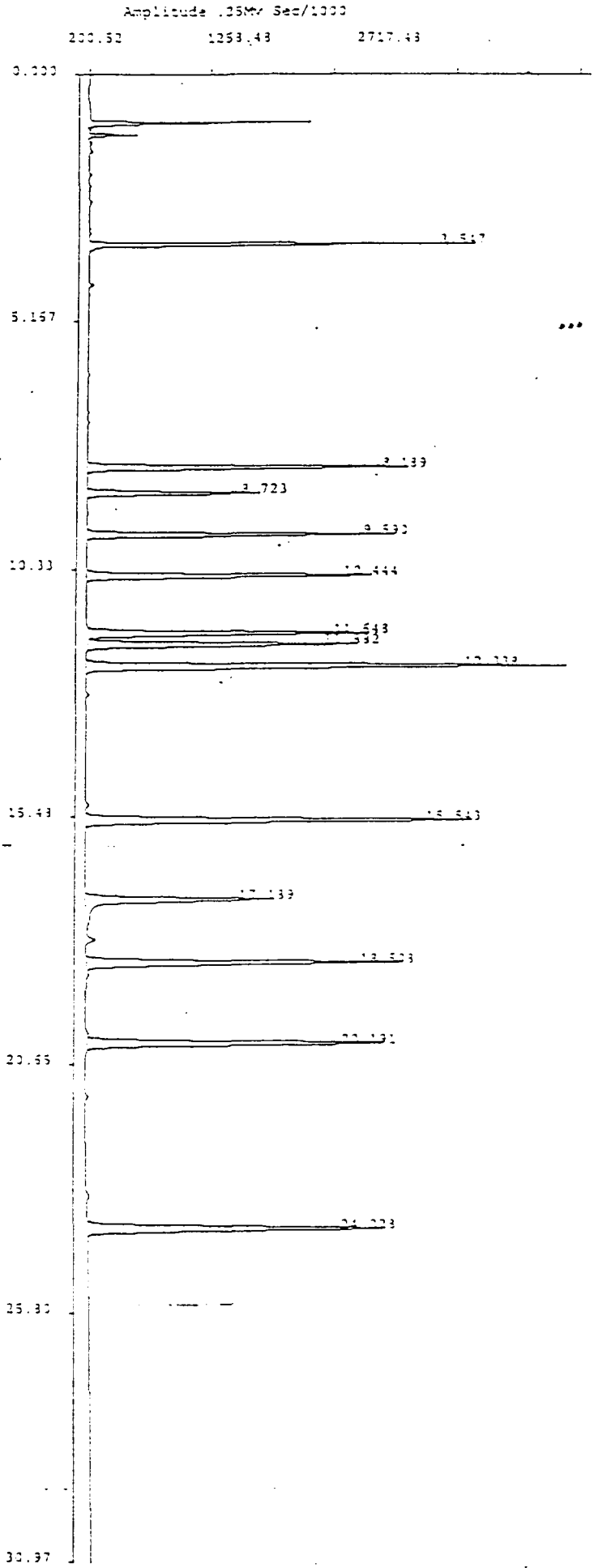
Celmic Corporation Pest/PCB Report

Sample Name : INDBH0A
Lab Id : INDBH0A ,I
Inst Id & Col : AD19_1, DB5, 0.53mm
Volume Injected: 1.0 uL Multilevel : False
Peak Processor : Genie Application : Loop
Calculation : ExternalSTD Quantitation: AreaUnits
Result File : /DATA/RESULT/R19P20SEP015.RES
Inject Time : 0017 21Sep1999
Run Status : RunStatusOK

Pk #	RT	Area	Code	MASSNG	Name
1	5.04	706770	BB	.077	TCX
2	6.53	484949	BB	.081	BETA-BHC
3	7.50	900501	BB	.108	DELTA-BHC
4	10.58	915997	BB	.093	ALDRIN
5	12.04	895675	BB	.088	H. EPOXIDE
6	12.95	918194	BB	.086	G. CHLORDANE
7	13.58	919134	BB	.086	A. CHLORDANE
8	14.32	1536711	BB	.190	4,4'-DDE
9	15.30	1556987	BB	.170	ENDOSULF. II
10	16.56	973032	BB	.160	ENDRIN ALDEH
11	17.58	1430698	BB	.164	ENDO. SULFAT
12	19.61	1578087	BB	.173	ENDRIN KETONE
13	28.27	1580433	BB	.139	DCB

Total Area: 14497170

Method File: /DATA/METHOD/INDABQ19.MTH
Format File: /DATA/FORMAT/DUAL_COL.FMT
Report Time: 1354 27Sep1999



Celmic Corporation Pest/PCB Report

Sample Name : INDBH1A
Lab Id : INDBH1A ,I
Inst Id & Col : AD20_1, DB1701, 0.53 mm
Volume Injected: 1.0 uL Multilevel : False
Peak Processor : Genie Application : Loop
Calculation : ExternalSTD Quantitation: AreaUnits
Result File : /DATA/RESULT/R20P20SEP015.RES
Inject Time : 0017 21Sep1999
Run Status : RunStatusOK

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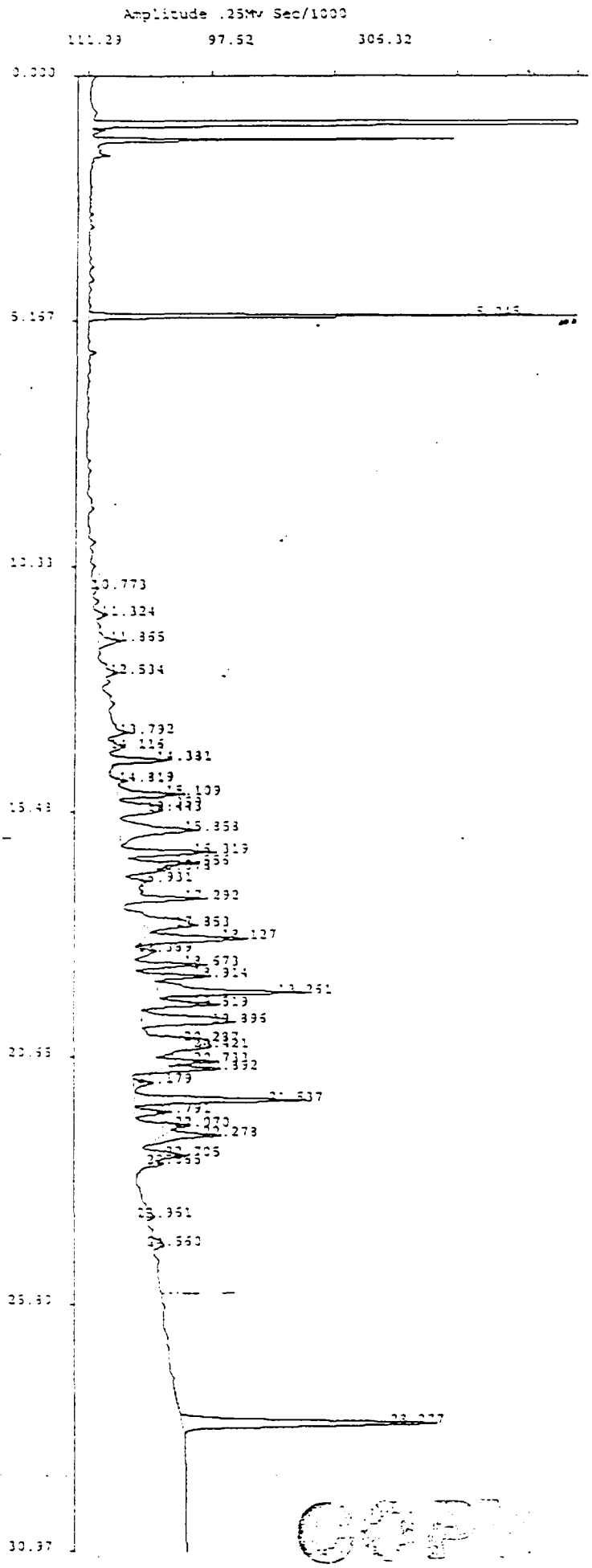
Pk #	RT	Area	Code	MASSNG	Name	
1	3.55	1584924	BS	.072	TCX	
2	8.13	2039195	BS	.088	ALDRIN	
3	8.72	1066670	BB	.076	BETA-BHC	
4	9.59	1829398	BS	.093	DELTA-BHC	
5	10.44	1961673	BS	.082	H. EPOXIDE	
6	11.55	1928353	BS	.082	G. CHLORDANE	
7	11.88	1927100	BS	.080	A. CHLORDANE	
8	12.34	3501156	BS	.171	4,4'-DDE	
9	15.54	2375150	BS	.157	ENDOSULF. II	
10	17.19	1669547	BB	.154	ENDRIN ALDEH	
11	18.51	2500864	BS	.159	ENDO. SULFAT	
12	20.19	2327416	BB	.162	ENDRIN KETONE	
13	24.03	2622359	BB	.137	DCB	

Total Area: 27913812

Method File: /DATA/METHOD/INDABQ20.MTH
Format File: /DATA/FORMAT/DUAL_COL.FMT
Report Time: 1321 27Sep1999



Celmic Corporation Pest/PCB Report

Sample Name : TOXAPH0A
Lab Id : TOXAPH0A ,I
Inst Id & Col : AD19_1, DB5, 0.53mm
Volume Injected: 1.0 uL
Multilevel : False
Peak Processor : Genie
Application : Loop
Calculation : ExternalSTD
Quantitation: AreaUnits
Result File : /DATA/RESULT/R19P20SEP009.RES
Inject Time : 2046 20Sep1999
Run Status : RunStatusOK
EndOffBaseline

Pk #	RT	Area	Code	MASSng	Name
1	5.05	182153	BB	.020	TCX
2	10.77	6748	BB	.001	
3	11.32	8748	BB	.001	
4	11.86	20441	BB	.002	
5	12.53	7917	BB	.001	
6	13.79	9867	BB	.001	
7	14.12	22553	BB	.001	
8	14.38	37807	BB	.003	
9	14.82	4053	BB	.000	
10	15.11	45162	BB	.004	
11	15.35	5389	BB	.000	
12	15.44	6487	BB	.001	
13	15.86	90456	BB	.008	
14	16.32	61253	BB	.500	TOXAPHENE
15	16.56	24413	BB	.002	
16	16.68	8352	BB	.001	
17	16.93	7350	BB	.001	
18	17.29	41258	BB	.003	
19	17.85	70438	BB	.006	
20	18.13	81629	BB	.500	TOXAPHENE-2
21	18.39	18009	BB	.002	
22	18.67	42670	BB	.004	
23	18.91	37142	BB	.003	
24	19.26	114111	BB	.500	TOXAPHENE-3
25	19.52	45558	BB	.004	
26	19.80	106513	BB	.500	TOXAPHENE-4
27	20.29	12601	BB	.001	
28	20.42	10966	BB	.001	
29	20.73	11360	BB	.001	
30	20.89	31750	BB	.003	
31	21.18	10533	BB	.001	
32	21.54	113434	BB	.500	TOXAPHENE-5
33	21.79	22574	BB	.002	
34	22.07	18730	BB	.002	
35	22.23	44182	BB	.004	
36	22.70	31292	BB	.003	
37	22.87	4843	BB	.000	
38	23.96	5438	BB	.000	
39	24.56	12535	BB	.001	
40	28.28	220194	BB	.020	DCB

Total Area: 1558442

1372

Celmic Corporation Pest/PCB Report

Sample Name : TOXAPH0A
Lab Id : TOXAPH0A ,I
Inst Id & Col : AD19_1, DB5, 0.53mm
Volume Injected: 1.0 uL Multilevel : False
Peak Processor : Genie Application : Loop
Calculation : ExternalSTD Quantitation: AreaUnits
Result File : /DATA/RESULT/R19P20SEP009.RES
Inject Time : 2346 20Sep1999
Run Status : RunStatusOK
EndOffBaseline
Format File: /DATA/FORMAT/DUAL_COL.FMT
Report Time: 1346 27Sep1999

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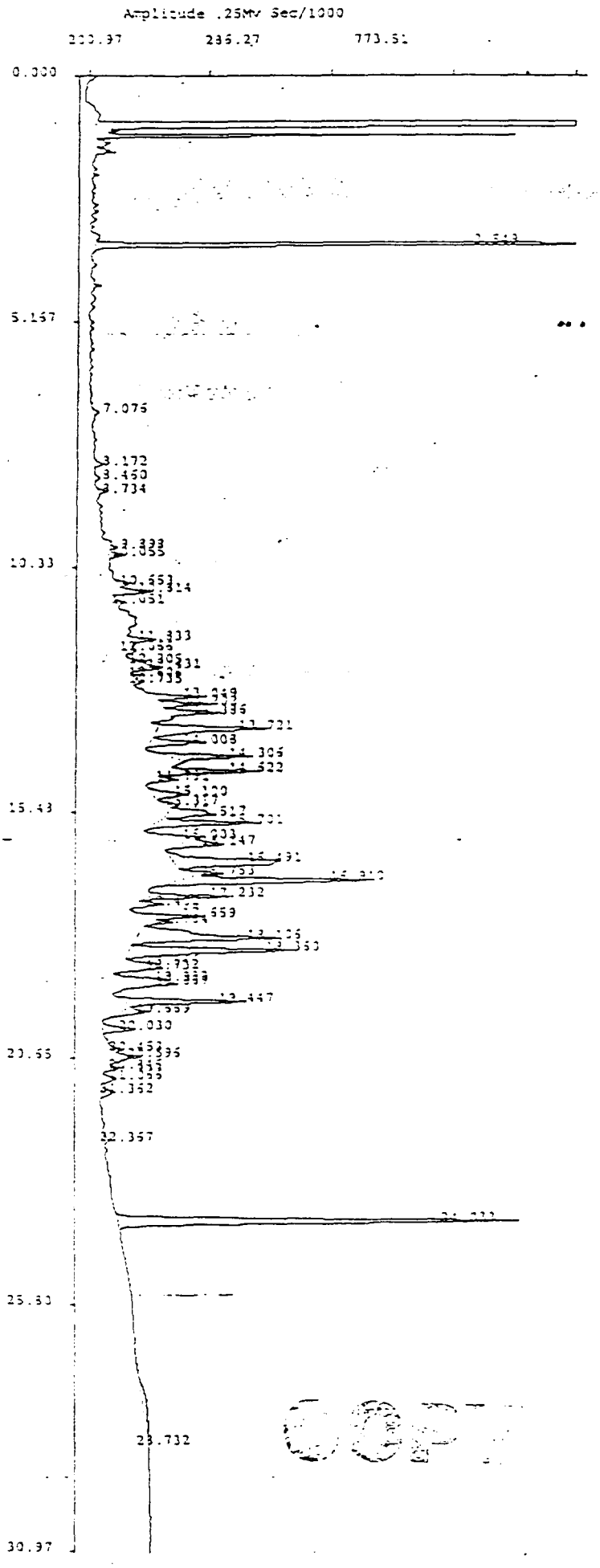
COPY



Celmic Corporation Pest/PCB Report

Sample Name : TOXAPHLA
Lab Id : TOXAPHLA ...I
Inst Id & Col : AD20_1, DB1701, 0.53mm
Volume Injected: 1.0 uL Multilevel : False
Peak Processor : Genie Application : Loop
Calculation : ExternalSTD Quantitation: AreaUnits
Result File : /DATA/RESULT/R20P20SEP009.RES
Inject Time : 2046 20Sep1999
Run Status : RunStatusOK

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Pk #	RT	Area	Code	MASSng	Name
1	3.55	431509	BB	.020	TCX
2	7.08	5453	BB	.000	
3	8.17	7020	BB	.001	
4	8.46	4319	BB	.000	
5	8.73	5817	BB	.000	
6	9.30	5187	BB	.000	
7	10.05	11729	BB	.001	
8	10.65	10735	BB	.001	
9	10.81	25716	BB	.002	
10	11.05	5815	BB	.000	
11	12.33	23491	BB	.002	
12	12.07	5196	BB	.000	
13	12.30	4785	BB	.000	
14	12.43	19279	BB	.002	
15	12.61	4497	BB	.000	
16	12.73	6628	BB	.001	
17	13.05	39675	BB	.003	
18	13.20	34154	BB	.003	
19	13.39	41781	BB	.004	
20	13.72	115172	BB	.500	TOXAPHENE
21	14.01	46913	BB	.004	
22	14.31	54297	BB	.005	
23	14.62	71623	BB	.500	TOXAPHENE-2
24	14.79	15738	BB	.001	
25	15.13	37928	BB	.003	
26	15.32	10083	BB	.001	
27	15.52	56896	BB	.005	
28	15.70	90771	BB	.008	
29	16.00	11969	BB	.001	
30	16.15	39346	BB	.003	
31	16.49	160421	BB	.014	
32	16.75	18645	BB	.002	
33	16.91	176917	BB	.500	TOXAPHENE-3
34	17.23	65980	BB	.006	
35	17.40	20717	BB	.002	
36	17.66	37681	BB	.003	
37	17.78	11513	BB	.001	
38	18.11	189443	BB	.016	
39	18.36	178672	BB	.500	TOXAPHENE-4
40	18.55	6829	BB	.001	
41	18.73	13573	BB	.001	
42	18.98	5825	BB	.000	

Celmic Corporation Pest/PCB Report

Sample Name : TOXAPH1A

Lab Id : TOXAPH1A ,I

Inst Id & Col : AD20_1, DB1701, 0.53mm

Volume Injected: 1.0 uL Multilevel : False

Peak Processor : Genie Application : Loop

Calculation : ExternalSTD Quantitation: AreaUnits

Result File : /DATA/RESULT/R20P20SEP009.RES

Inject Time : 2046 20Sep1999

Run Status : RunStatusOK

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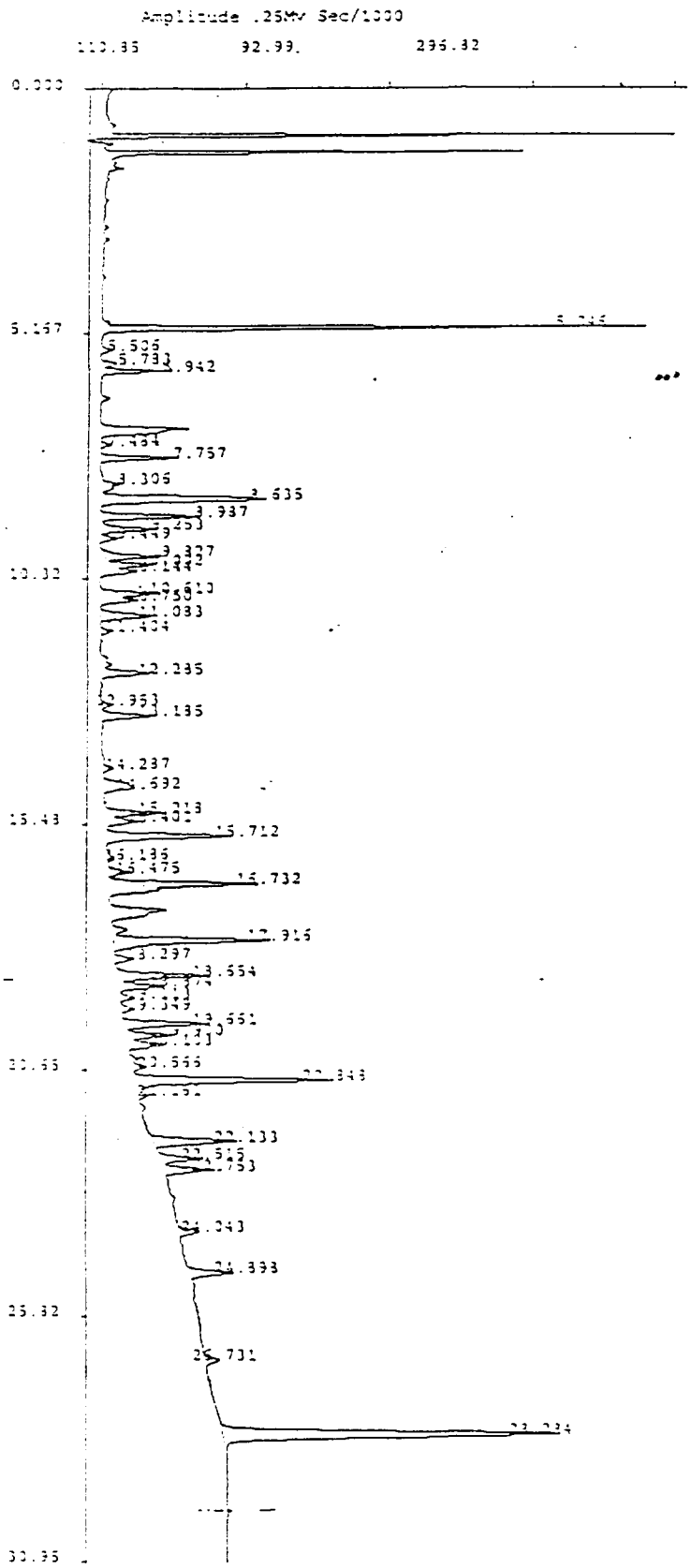
Pk #	RT	Area	Code	MASSng	Name
43	19.07	4374	BB	.000	
44	19.45	108098	BB	.500	TOXAPHENE-5
45	19.67	24174	BB	.002	
46	20.03	30586	BB	.003	
47	20.45	6019	BB	.001	
48	20.60	28049	BB	.002	
49	20.85	10212	BB	.001	
50	21.07	15664	BB	.001	
51	21.35	16086	BB	.001	
52	22.37	6315	BB	.001	
53	24.03	383048	BB	.020	DCB
54	28.73	28646	BB	.002	

Total Area: 2301017

Method File: /DATA/METHOD/TOXAPH_20.MTH

Format File: /DATA/FORMAT/DUAL_COL.FMT

Report Time: 1914 27Sep1999



Celmic Corporation Pest/PCB Report

Sample Name : AR16600A
Lab Id : AR16600A .I
Inst Id & Col : AD19_1, DB5, 0.53mm
Volume Injected: 1.0 uL Multilevel : False
Peak Processor : Genie Application : Loop
Calculation : ExternalSTD Quantitation: AreaUnits
Result File : /DATA/RESULT/R19P20SEP003.RES
Inject Time : 1715 20Sep1999
Run Status : RunStatusOK

Pk #	RT	Area	Code	MASSag	Name
1	5.05	165484	BB	.020	TCX
2	5.51	4014	BB	.000	
3	5.78	5488	BB	.000	
4	5.94	23482	BB	.100	ARO-1016
5	7.48	4079	BB	.000	
6	7.76	32229	BB	.100	ARO-1016-2
7	8.32	4938	BB	.000	
8	8.54	95782	BB	.100	ARO-1016-3
9	8.99	42027	BB	.100	ARO-1016-4
10	9.25	24190	BB	.002	
11	9.45	6612	BB	.001	
12	9.83	26112	BB	.100	ARO-1016-5
13	10.00	15063	BB	.001	
14	10.14	9149	BB	.001	
15	10.61	13002	BB	.001	
16	10.75	7170	BB	.001	
17	11.08	31346	BB	.003	
18	11.40	5680	BB	.001	
19	12.23	23384	BB	.002	
20	12.95	4480	BB	.000	
21	13.19	27978	BB	.002	
22	14.29	4791	BB	.000	
23	14.69	25775	BB	.002	
24	15.22	21434	BB	.002	
25	15.42	12602	BB	.001	
26	15.71	71490	BB	.100	ARO-1260
27	16.19	4208	BB	.000	
28	16.48	11419	BB	.001	
29	16.73	56647	BB	.005	
30	17.92	83399	BB	.100	ARO-1260-2
31	18.30	10469	BB	.001	
32	18.65	47652	BB	.100	ARO-1260-3
33	18.87	21352	BB	.002	
34	19.11	7241	BB	.001	
35	19.35	6753	BB	.001	
36	19.66	43969	BB	.004	
37	19.93	20833	BB	.002	
38	20.10	15770	BB	.001	
39	20.57	6261	BB	.001	
40	20.85	103432	BB	.100	ARO-1260-4
41	21.16	4055	BB	.000	
42	22.13	47912	BB	.100	ARO-1260-5

Celmic Corporation Pest/PCB Report

Sample Name : AR16600A

Lab Id : AR16600A ,I

Inst Id & Col : AD19_1, DB5, 0.53mm

Volume Injected: 1.0 uL Multilevel : False

Peak Processor : Genie Application : Loop

Calculation : ExternalSTD Quantitation: AreaUnits

Result File : /DATA/RESULT/R19P20SEP003.RES

*** Inject Time : 1715 20Sep1999 X 9/27/99

Run Status : RunStatusOK

Pk #	RT	Area	Code	MASSng	Name
43	22.52	22709	BB	.002	
44	22.75	26603	BB	.002	
45	24.04	11734	BB	.001	
46	24.90	24343	BB	.002	
47	26.73	12817	BB	.001	
48	28.28	238461	BB	.020	DCB

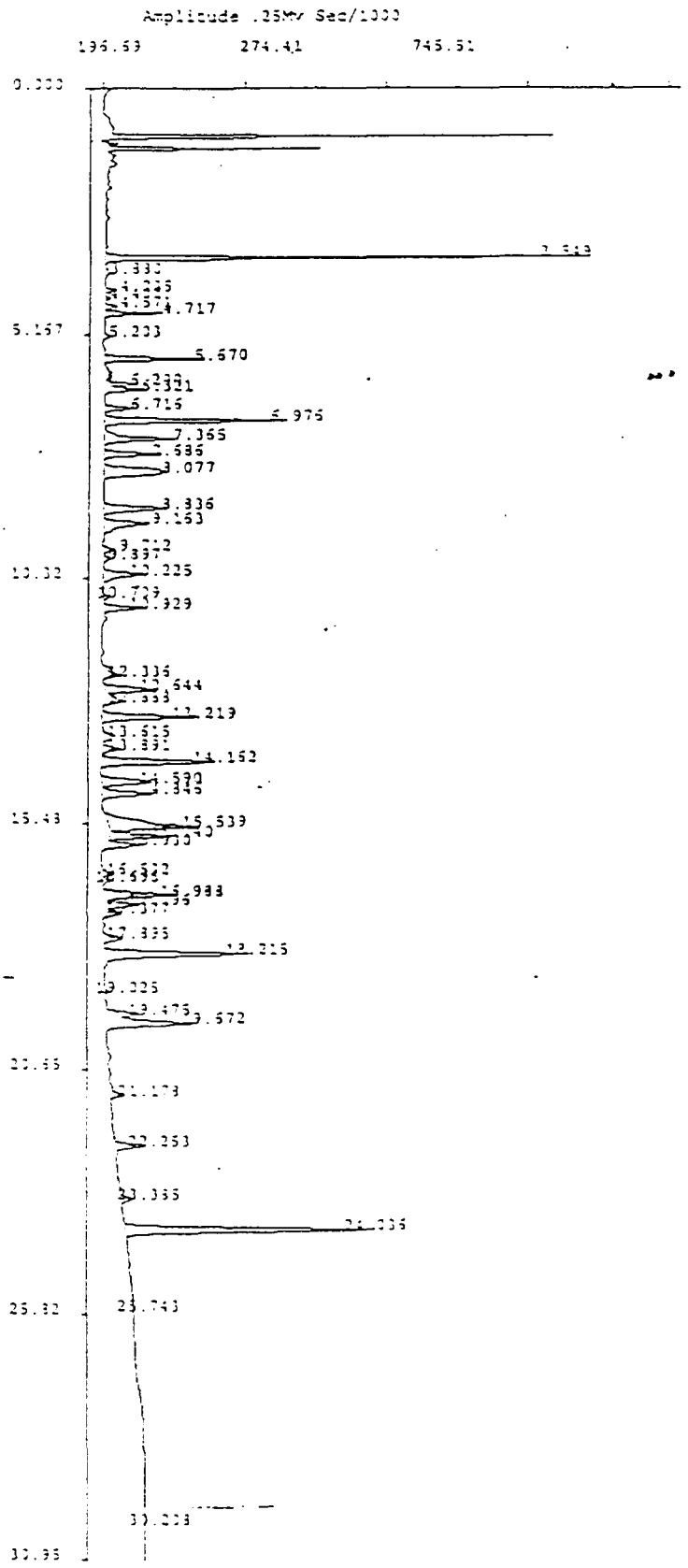
Total Area: 1554478

Method File: /DATA/METHOD/AR1560_19.MTH

Format File: /DATA/FORMAT/DUALII.FMT

Report Time: 1339 27Sep1999

COPY



Celmic Corporation Pest/PCB Report

Sample Name : AR16601A
Lab Id : AR16601A ,I
Inst Id & Col : AD20_1, DB1701, 0.53mm
Volume Injected: 1.0 uL Multilevel : False
Peak Processor : Genie Application : Loop
Calculation : ExternalSTD Quantitation: AreaUnits
Result File : /DATA/RESULT/R10P20SEP003.RES
Inject Time : 1715 20Sep1999
Run Status : RunStatusOK

Pk #	RT	Area	Code	MASSng	Name
1	3.55	415923	BB	.020	TCX
2	3.88	6264	BB	.001	
3	4.23	9229	BB	.001	
4	4.41	5273	BB	.000	
5	4.57	11059	BB	.001	
6	4.72	55059	BB	.100	ARO-1016
7	5.20	9338	BB	.001	
8	5.67	112346	BB	.100	ARO-1016-2
9	6.20	17112	BB	.002	
10	6.32	35432	BB	.003	
11	6.72	31627	BB	.003	
12	6.98	219231	BB	.100	ARO-1016-3
13	7.36	95692	BB	.100	ARO-1016-4
14	7.69	69645	BB	.006	
15	8.08	155904	BB	.014	
16	8.84	101430	BB	.100	ARO-1016-5
17	9.16	79397	BB	.007	
18	9.71	13933	BB	.001	
19	9.90	7380	BB	.001	
20	10.23	58047	BB	.005	
21	10.72	6773	BB	.001	
22	10.93	55118	BB	.005	
23	12.34	18183	BB	.002	
24	12.54	82226	BB	.007	
25	12.89	27106	BB	.002	
26	13.22	139794	BB	.100	ARO-1260
27	13.62	20490	BB	.002	
28	13.89	24517	BB	.002	
29	14.16	170717	BB	.100	ARO-1260-2
30	14.59	87954	BB	.008	
31	14.85	76218	BB	.100	ARO-1260-3
32	15.54	201730	BB	.018	
33	15.74	80830	BB	.007	
34	15.93	44625	BB	.004	
35	16.53	10454	BB	.001	
36	16.70	7429	BB	.001	
37	16.99	105257	BB	.100	ARO-1260-4
38	17.20	43550	BB	.004	
39	17.38	19755	BB	.002	
40	17.90	30208	BB	.003	
41	18.21	224544	BB	.100	ARO-1260-5
42	18.02	4227	BB	.000	

Celmic Corporation Pest/PCB Report

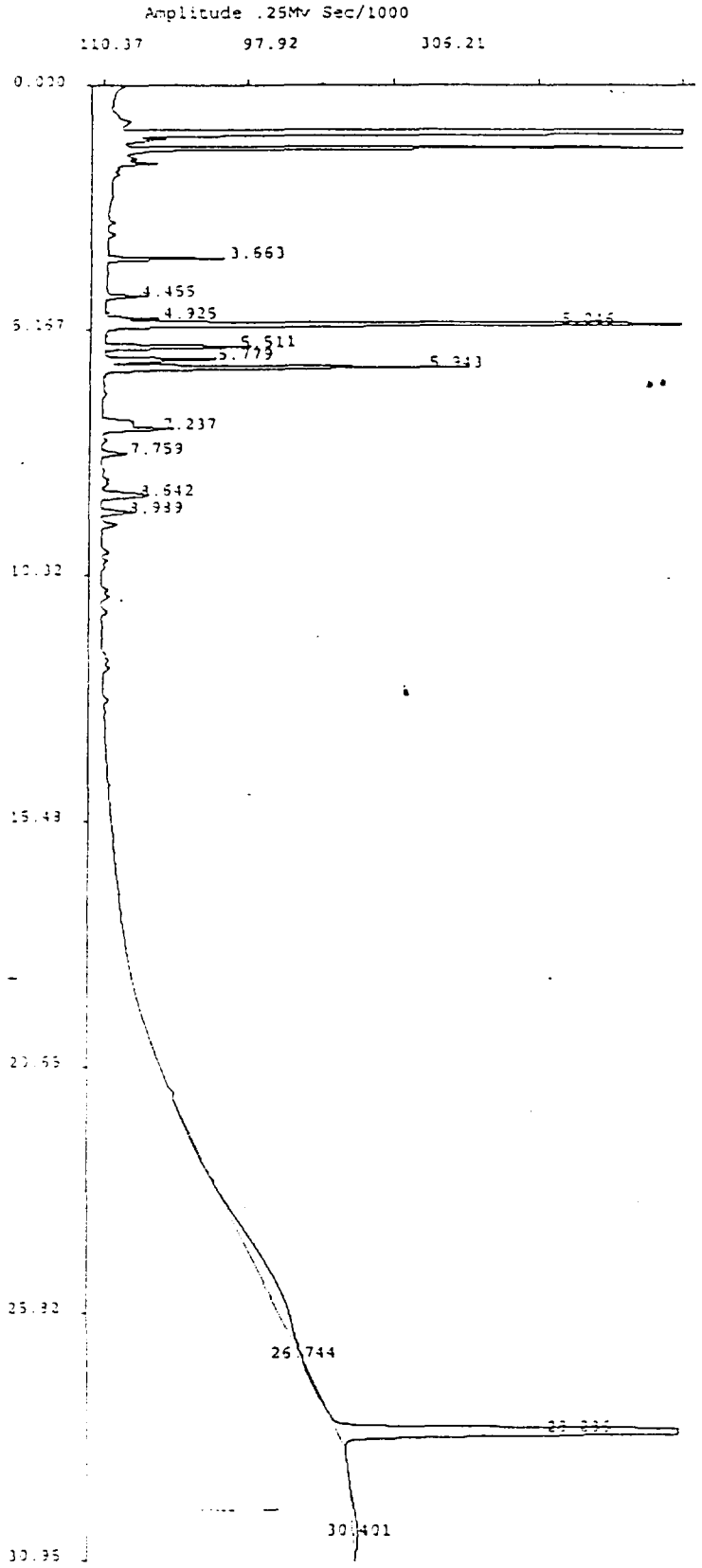
Sample Name : AR16601A
Lab Id : AR16601A ,I
Inst Id & Col : AD20_1, DB1701, 0.53mm
Volume Injected: 1.0 uL Multilevel : False
Peak Processor : Genie Application : Loop
Calculation : ExternalSTD Quantitation: AreaUnits
Result File : /DATA/RESULT/R20P20SEP003.RES
Inject Time : 1715 20Sep1999
Run Status : RunStatusOK

Yo 9/27/99

Pk #	RT	Area	Code	MASSng	Name
43	19.47	26474	BB	.002	
44	19.67	130250	BB	.011	
45	21.13	17270	BB	.002	
46	22.25	45617	BB	.004	
47	23.38	12253	BB	.001	
48	24.04	415530	BB	.020	DCB
49	25.74	10337	BB	.001	
50	30.21	113257	BB	.010	

Total Area: 3774557

Method File: /DATA/METHOD/AR1650_20.MTH
Format File: /DATA/FORMAT/DUALII.FMT
Report Time: 1306 27Sep1999



Celmic Corporation Pest/PCB Report

Sample Name : AR12210A
Lab Id : AR12210A ,I
Inst Id & Col : AD19_1, DB5, 0.53mm
Volume Injected: 1.0 uL Multilevel : False
Peak Processor : Genie Application : Loop
Calculation : ExternalSTD Quantitation: AreaUnits
Result File : /DATA/RESULT/R19P20SEP004.RES
Inject Time : 1750 20Sep1999
Run Status : RunStatusOK
EndOffBaseline

9/21/99

Pk #	RT	Area	Code	MASSng	Name
1	3.66	20666	BV	.200	ARO-1221
2	4.45	7175	BB	.001	
3	4.93	5108	BB	.000	
4	5.05	166776	BB	.020	TCX
5	5.51	29050	BB	.200	ARO-1221-2
6	5.78	20648	BB	.200	ARO-1221-3
7	5.94	69155	BB	.200	ARO-1221-4
8	7.24	26300	BB	.002	
9	7.76	5661	BB	.001	
10	8.64	13446	BB	.001	ARO-1221-5
11	8.99	6970	BB	.001	
12	26.74	60545	BB	.005	
13	28.29	231671	BB	.020	DCB
14	30.40	12632	BB	.001	

Total Area: 675305

Method File: /DATA/METHOD/AR1221_13.MTH
Format File: /DATA/FORMAT/DGALII.FMT
Report Time: 1340 27Sep1999

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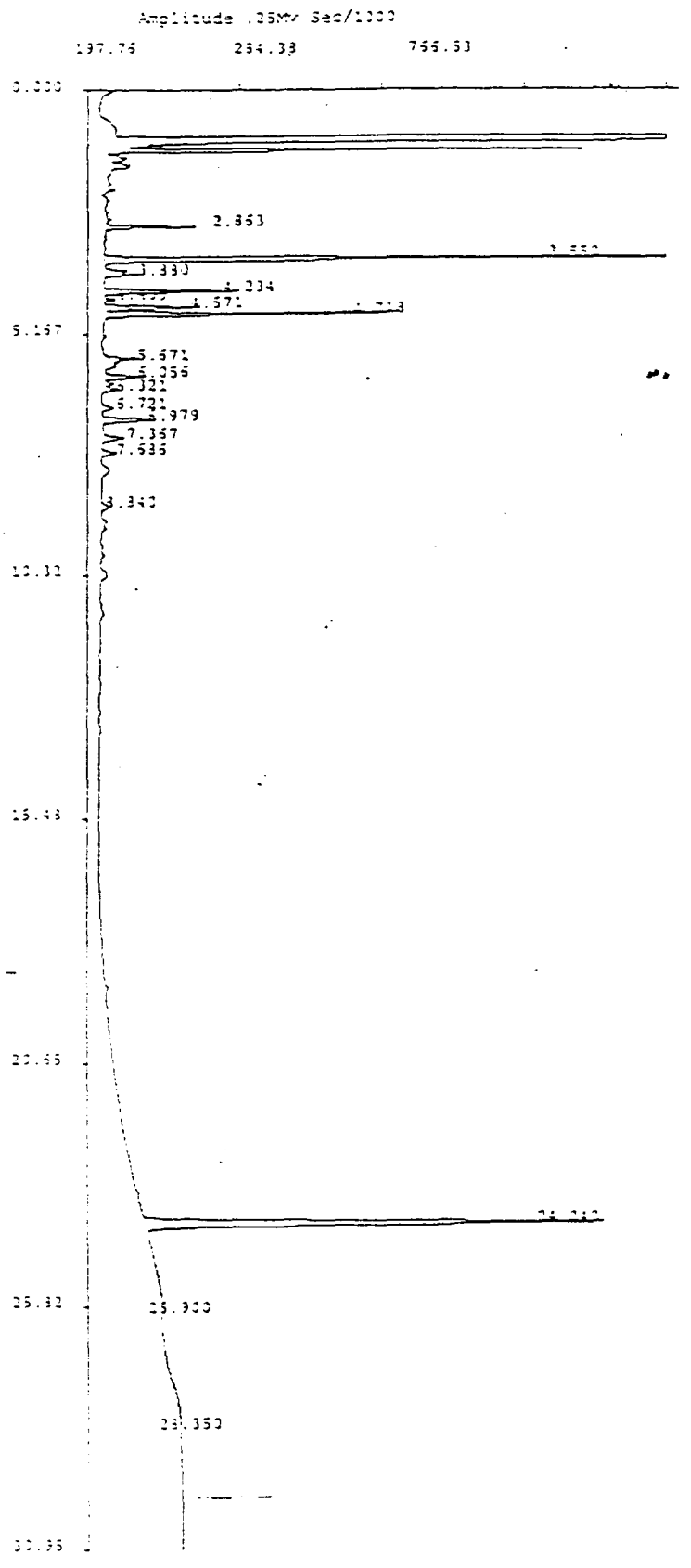

Celmic Corporation Pest/PCB Report

Sample Name : AR12211A

Lab Id : AR12211A ,I

Inst Id & Col : AD20_1, DB1701, 0.53mm

Volume Injected: 1.0 uL Multilevel : False

Peak Processor : Genie Application : Loop

Calculation : ExternalSTD Quantitation: AreaUnits

Result File : /DATA/RESULT/R20P20SEP004.RES

Inject Time : 1750 20Sep1999

Run Status : RunStatusOK

9/20/99

Pk #	RT	Area	Code	MASSng	Name
1	2.85	42604	BB	.200	ARO-1221
2	3.55	429194	BB	.020	TCX
3	3.88	24372	BB	.002	
4	4.23	64254	BB	.200	ARO-1221-2
5	4.41	6050	BB	.001	
6	4.57	44713	BB	.200	ARO-1221-3
7	4.72	152861	BB	.200	ARO-1221-4
8	5.67	14110	BB	.001	
9	6.06	20698	BB	.002	
10	6.32	7236	BB	.001	
11	6.72	7187	BB	.001	
12	6.98	33547	BB	.003	
13	7.37	12717	BB	.001	
14	7.69	9128	BB	.001	
15	8.84	7032	BB	.200	ARO-1221-5
16	24.04	402599	BB	.020	DCB
17	25.90	16530	BB	.001	
18	28.35	13512	BB	.001	

Total Area: 1308445

Method File: /DATA/METHOD/AR1221_20.MTH

Format File: /DATA/FORMAT/DUALII.FMT

Report Time: 1908 27Sep1999

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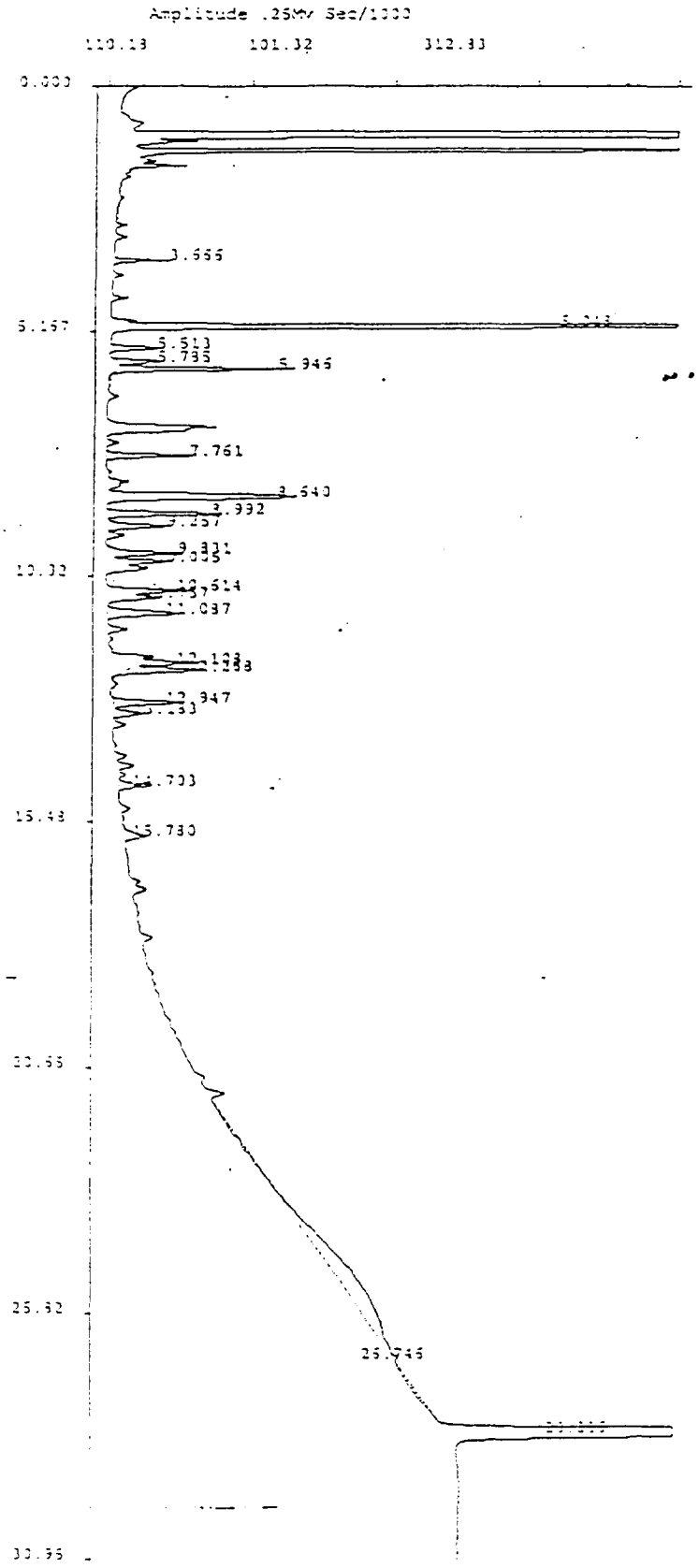

Celmic Corporation Pest/PCB Report

Sample Name : AR12320A
Lab Id : AR12320A ,I
Inst Id & Col : AD19_1, DB5, 0.53mm
Volume Injected: 1.0 uL Multilevel : False
Peak Processor : Genie Application : Loop
Calculation : ExternalSTD Quantitation: AreaUnits
Result File : /DATA/RESULT/R19P20SEP005.RES
Inject Time : 1826 20Sep1999
Run Status : RunStatusOK
EndOffBaseline

Yo 9/27/99

Pk #	RT	Area	Code	MASSng	Name
1	3.67	6508	BB	.001	
2	5.05	174753	BB	.020	TCX
3	5.51	7532	BB	.001	
4	5.73	6431	BB	.001	
5	5.95	22784	BB	.100	ARO-1232
6	7.76	13635	BB	.002	
7	8.64	40959	BB	.100	ARO-1232-2
8	8.99	17923	BB	.100	ARO-1232-3
9	9.26	10058	BB	.001	
10	9.83	12356	BB	.100	ARO-1232-4
11	10.00	6607	BB	.001	
12	10.61	5752	BB	.001	
13	10.76	4697	BB	.001	
14	11.09	15498	BB	.100	ARO-1232-5
15	12.11	8266	BB	.001	
16	12.27	12428	BB	.001	
17	12.95	12753	BB	.001	
18	13.18	5897	BB	.001	
19	14.70	6029	BB	.001	
20	15.73	5346	BB	.001	
21	25.75	61731	BB	.007	
22	28.29	330438	BB	.020	DCB

Total Area: 688402

Method File: /DATA/METHOD/AR1232_19.MTH
Format File: /DATA/FORMAT/DUALII.FMT
Report Time: 1841 27Sep1999

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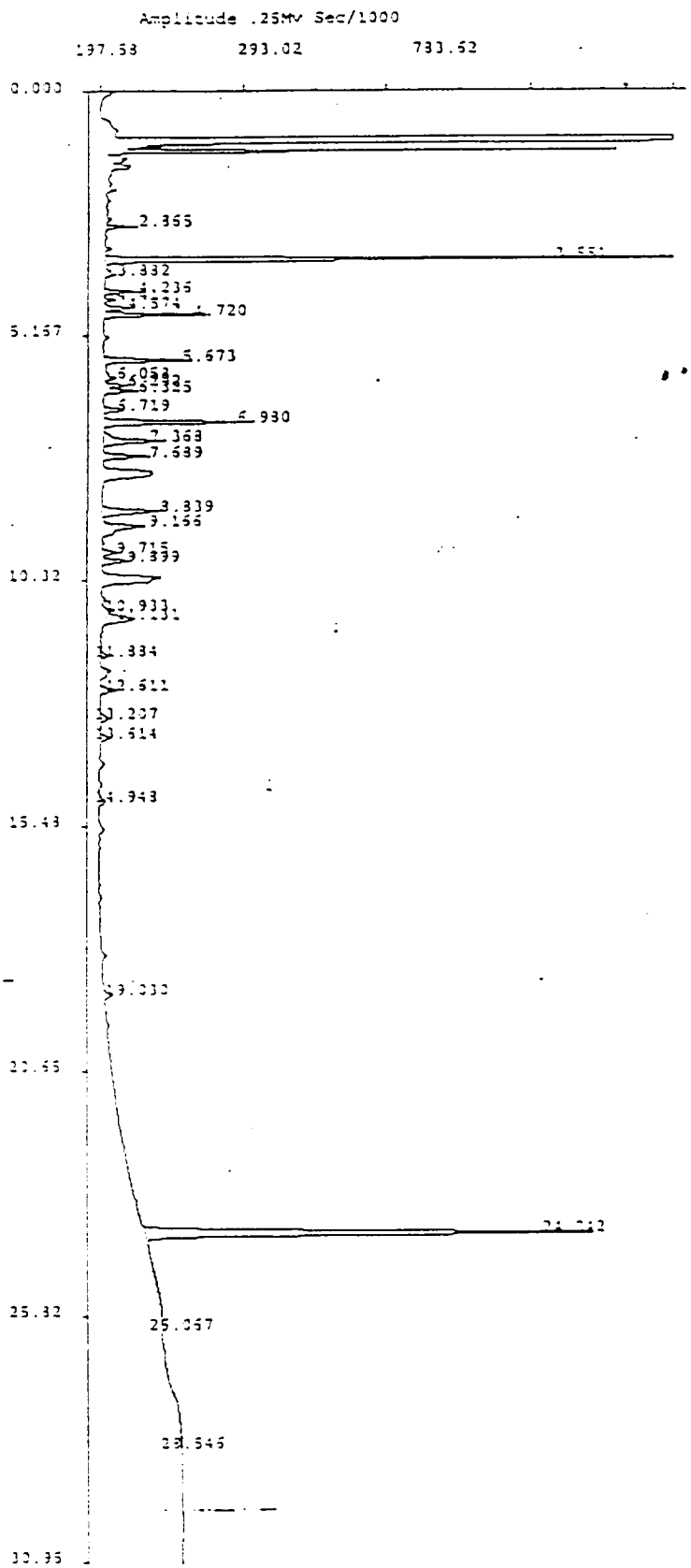


Celmic Corporation Pest/PCB Report

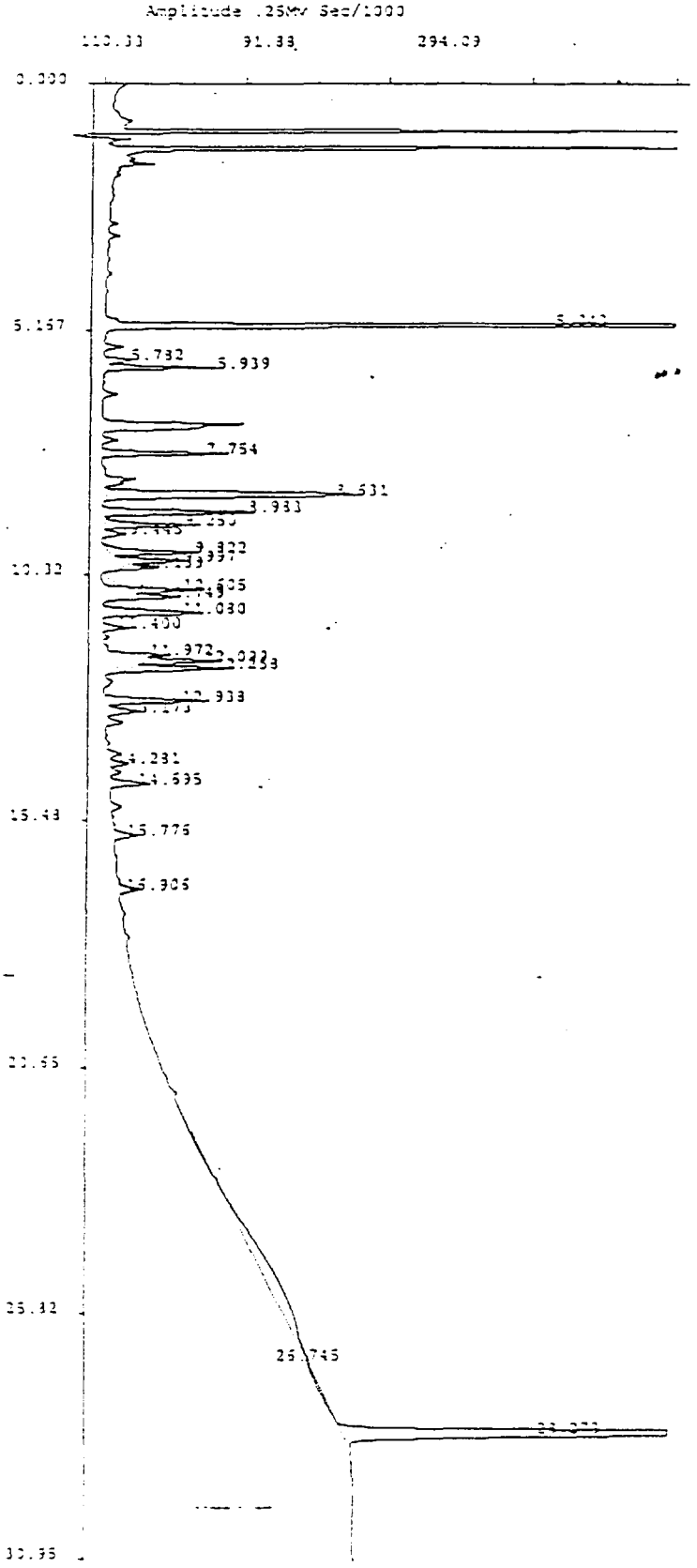
Sample Name : AR12321A
Lab Id : AR12321A ,I
Inst Id & Col : AD20_1, DB1701, 0.53mm
Volume Injected: 1.0 uL Multilevel : False
Peak Processor : Genie Application : Loop
Calculation : ExternalSTD Quantitation: AreaUnits
Result File : /DATA/RESULT/R20P20SKP005.RES
Inject Time : 1826 20Sep1999
Run Status : RunStatusOK

Yes 9/20/99

Pk #	RT	Area	Code	MASSng	Name
1	2.37	14237	BB	.002	
2	3.55	431411	BB	.020	TCX
3	3.88	6849	BB	.001	
4	4.24	16955	BB	.002	
5	4.41	5912	BB	.001	
6	4.57	13245	BB	.002	
7	4.72	53361	BB	.100	ARO-1232
8	5.67	49035	BB	.100	ARO-1232-2
9	6.06	4679	BB	.001	
10	6.20	10017	BB	.001	
11	6.32	15036	BB	.002	
12	6.72	12929	BB	.001	
13	6.98	93888	BB	.100	ARO-1232-3
14	7.37	42471	BB	.100	ARO-1232-4
15	7.69	23105	BB	.003	
16	8.84	47833	BB	.100	ARO-1232-5
17	9.17	25315	BB	.003	
18	9.72	8885	BB	.001	
19	9.90	17428	BB	.002	
20	10.93	4144	BB	.000	
21	11.13	26161	BB	.003	
22	11.88	5100	BB	.001	
23	12.61	12951	BB	.001	
24	13.21	7770	BB	.001	
25	13.61	7990	BB	.001	
26	14.95	6548	BB	.001	
27	19.03	6904	BB	.001	
28	24.04	435605	BB	.020	DCB
29	26.07	23293	BB	.003	
30	28.55	25714	BB	.003	

Total Area: 1431000

Method File: /DATA/METHOD/AR1232_20.MTH
Format File: /DATA/FORMAT/DUALII.FMT
Report Time: 1909 27Sep1999



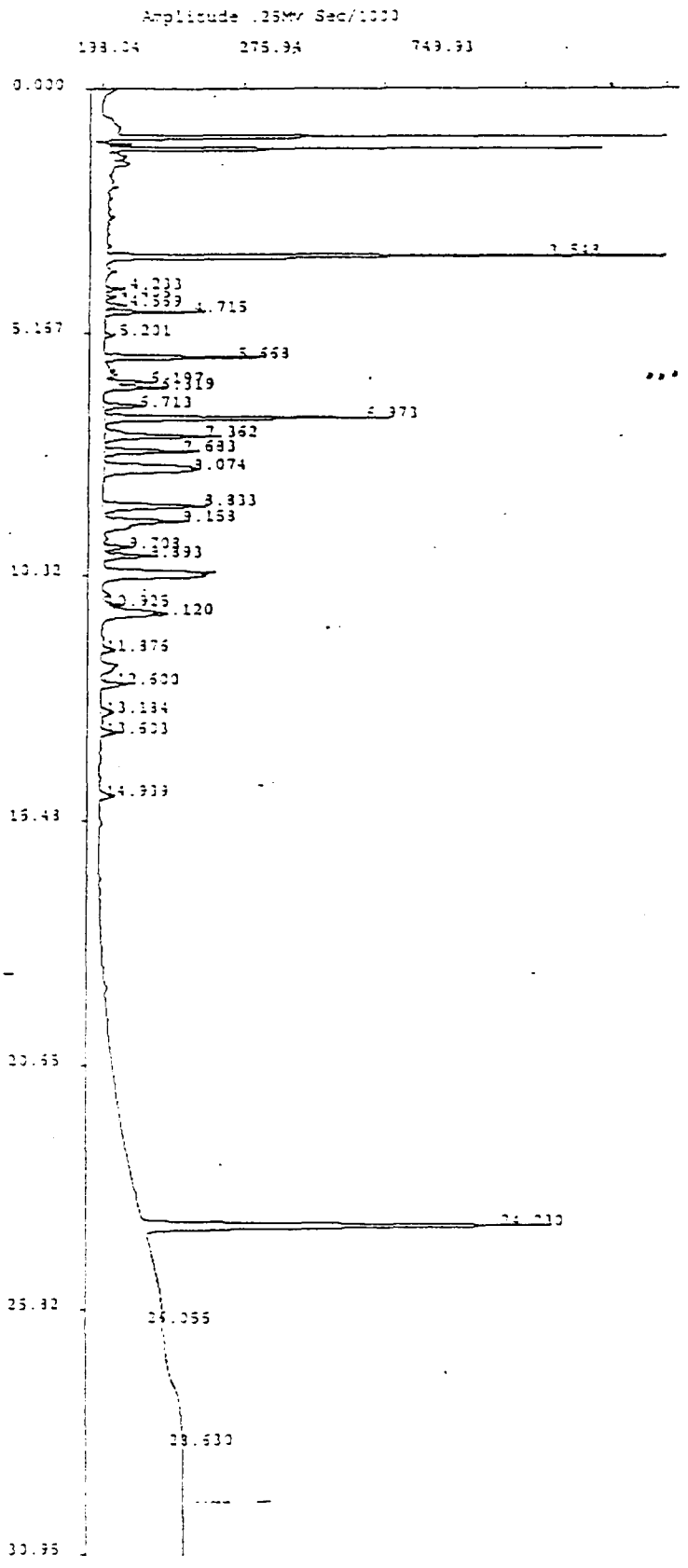
Celmic Corporation Pest/PCB Report

Sample Name : AR12420A
Lab Id : AR12420A ,I
Inst Id & Col : AD19_1, DB5, 0.53mm
Volume Injected: 1.0 uL Multilevel : False
Peak Processor : Genie Application : Loop
Calculation : ExternalSTD Quantitation: AreaUnits
Result File : /DATA/RESULT/R19P20SEP006.RES
Inject Time : 1901 20Sep1999
Run Status : RunStatusOK
EndOffBaseline

Pk #	RT	Area	Code	MASSng	Name
1	5.04	171151	BB	.020	TCX
2	5.73	4903	BB	.000	
3	5.94	19591	BB	.002	
4	7.75	25542	BB	.100	ARO-1242
5	8.63	77367	BB	.100	ARO-1242-2
6	8.93	33254	BB	.100	ARO-1242-3
7	9.25	19255	BB	.002	
8	9.45	4521	BB	.000	
9	9.82	20369	BB	.002	
10	10.00	11921	BB	.001	
11	10.14	6279	BB	.001	
12	10.61	10496	BB	.001	
13	10.75	8357	BB	.001	
14	11.08	28481	BB	.100	ARO-1242-4
15	11.40	6527	BB	.001	
16	11.97	5980	BB	.001	
17	12.10	14744	BB	.001	
18	12.26	21315	BB	.002	
19	12.94	25333	BB	.100	ARO-1242-5
20	13.17	8088	BB	.001	
21	14.23	4472	BB	.000	
22	14.69	10024	BB	.001	
23	15.78	6376	BB	.001	
24	16.91	5134	BB	.000	
25	26.74	55577	BB	.005	
26	28.27	135554	BB	.020	DCB

Total Area: 792314

Method File: /DATA/METHOD/AR1242_19.MTH
Format File: /DATA/FORMAT/DGALII.FMT
Report Time: 1342 27Sep1999



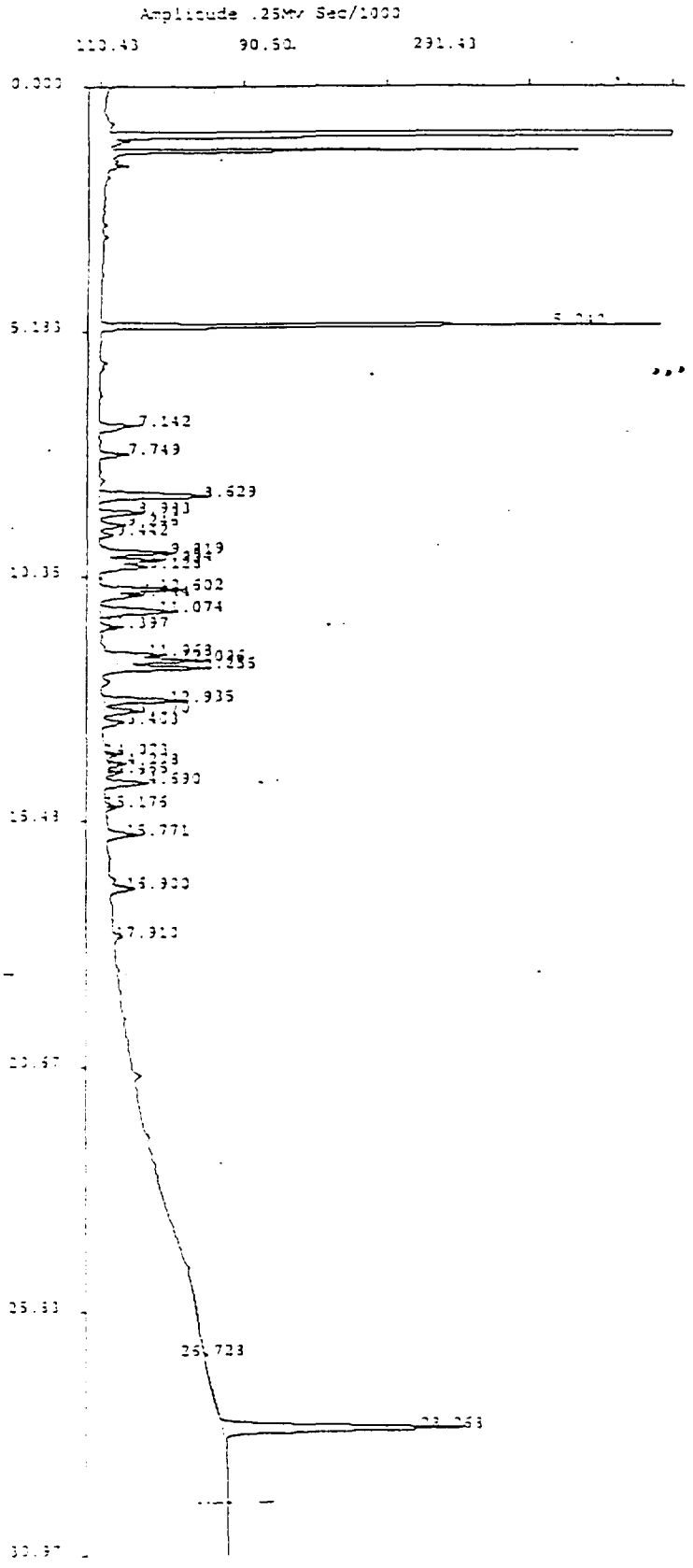
Celmic Corporation Pest/PCB Report

Sample Name : AR12421A
Lab Id : AR12421A ,I
Inst Id & Col : AD20_1, DB1701, 0.53mm
Volume Injected: 1.0 uL Multilevel : False
Peak Processor : Genie Application : Loop
Calculation : ExternalSTD Quantitation: AreaUnits
Result File : /DATA/RESULT/R20P20SK2006.RES
Inject Time : 1901 20Sep1999
Run Status : RunStatusOK

Pk #	RT	Area	Code	MASSng	Name
1	3.55	415707	BB	.020	TCX
2	4.23	7967	BB	.001	
3	4.40	5352	BB	.000	
4	4.57	9700	BB	.001	
5	4.71	46845	BB	.100	ARO-1242
6	5.20	5954	BB	.001	
7	5.57	88839	BB	.100	ARO-1242-2
8	6.20	19073	BB	.002	
9	6.32	27776	BB	.002	
10	6.71	24844	BB	.002	
11	6.97	174294	BB	.100	ARO-1242-3
12	7.36	78573	BB	.007	
13	7.68	54852	BB	.100	ARO-1242-4
14	8.07	120514	BB	.010	
15	8.83	85035	BB	.100	ARO-1242-5
16	9.15	44429	BB	.004	
17	9.71	16509	BB	.001	
18	9.89	33916	BB	.003	
19	10.93	4507	BB	.000	
20	11.12	60908	BB	.005	
21	11.88	9271	BB	.001	
22	12.60	9543	BB	.001	
23	13.18	10748	BB	.001	
24	13.60	13979	BB	.001	
25	14.94	11951	BB	.001	
26	24.03	331574	BB	.020	DCB
27	26.05	21128	BB	.002	
28	28.63	27444	BB	.002	

Total Area: 1751482

Method File: /DATA/METHOD/AR1242_20.MTE
Format File: /DATA/FORMAT/DCALII.FMT
Report Time: 1911 20Sep1999



Celmic Corporation Pest/PCB Report

Sample Name : AR12430A
Lab Id : AR12430A ,I
Inst Id & Col : AD19_1, DB5, 0.53mm
Volume Injected: 1.0 uL Multilevel : False
Peak Processor : Genie Application : Loop
Calculation : ZxternalSTD Quantitation: AreaUnits
Result File : /DATA/RESULT/R19P20SEP007.RES
Inject Time : 1936 20Sep1999
Run Status : RunStatusOK

Pk #	RT	Area	Code	MASSng	Name
1	5.04	175427	BB	.020	TCX
2	7.14	21667	BB	.002	
3	7.75	12244	BB	.001	
4	8.63	67204	BB	.100	ARO-1248
5	8.93	19978	BB	.002	
6	9.25	12094	BB	.001	
7	9.44	5911	BB	.001	
8	9.82	30957	BB	.100	ARO-1248-2
9	9.99	16558	BB	.001	
10	10.13	5595	BB	.000	
11	10.60	26226	BB	.002	
12	10.74	8028	BB	.001	
13	11.07	44577	BB	.100	ARO-1248-3
14	11.40	9176	BB	.001	
15	11.97	11165	BB	.001	
16	12.10	24075	BB	.002	
17	12.25	36589	BB	.003	
18	12.94	41836	BB	.100	ARO-1248-4
19	13.17	17170	BB	.001	
20	13.40	10283	BB	.001	
21	14.07	6472	BB	.001	
22	14.28	9082	BB	.001	
23	14.47	6032	BB	.001	
24	14.69	21538	BB	.100	ARO-1248-5
25	15.18	5938	BB	.001	
26	15.77	18061	BB	.002	
27	16.90	11586	BB	.001	
28	17.91	5157	BB	.000	
29	26.73	8107	BB	.001	
30	28.27	165477	BB	.020	DCB

Total Area: 854516

Method File: /DATA/METHOD/AR1248_19.MTH
Format File: /DATA/FORMAT/DTALII.FMT
Report Time: 1843 27Sep1999

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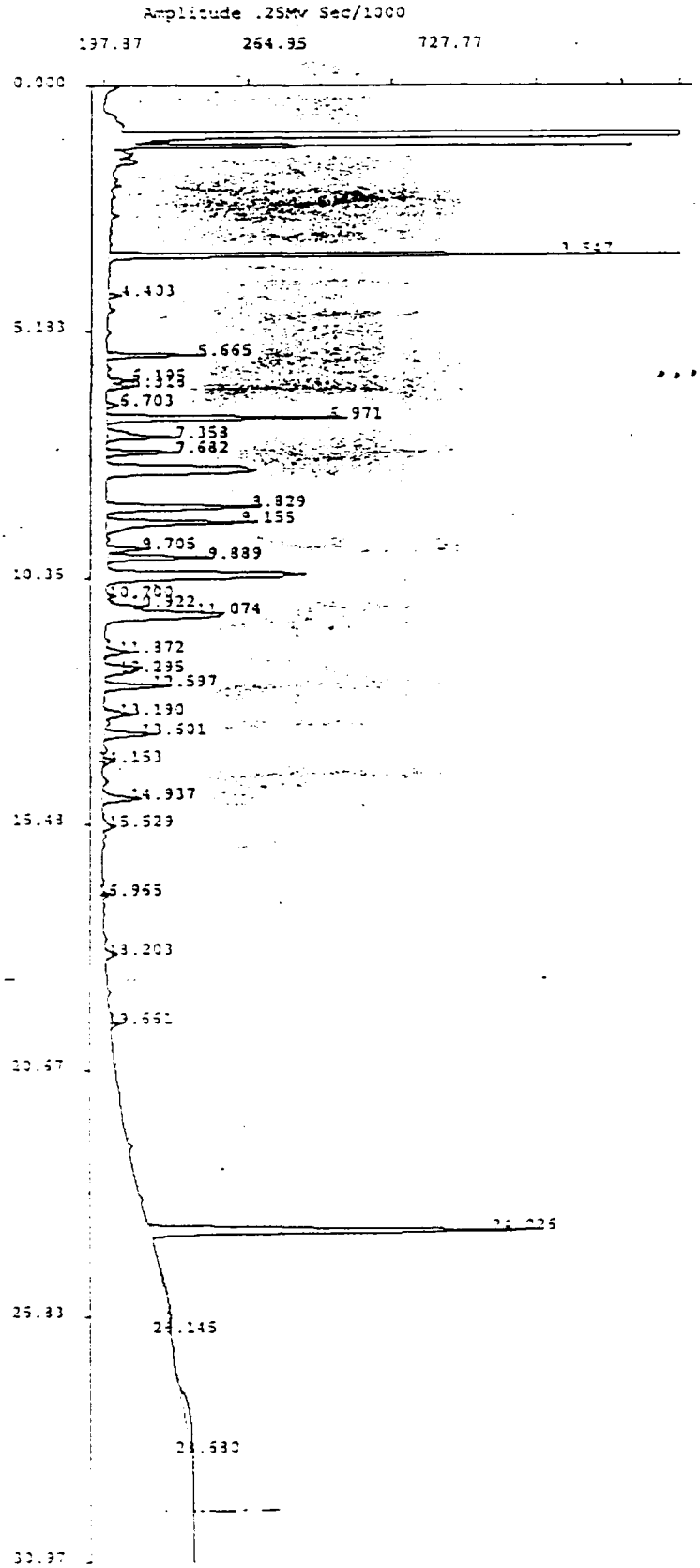


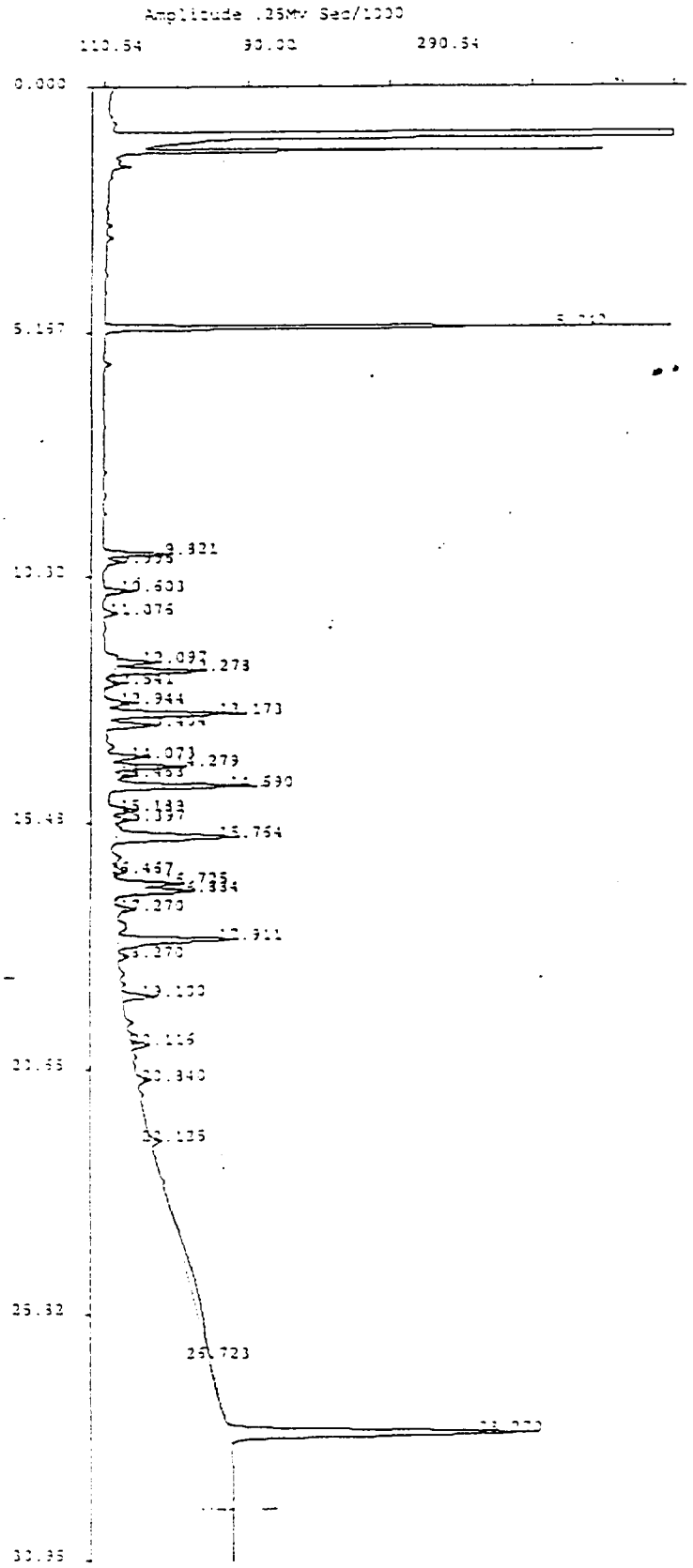
Celmic Corporation Pest/PCB Report

Sample Name : AR12481A
Lab Id : AR12481A ,I
Inst Id & Col : AD20_1, DB1701, 0.53mm
Volume Injected: 1.0 uL Multilevel : False
Peak Processor : Genie Application : Loop
Calculation : ExternalSTD Quantitation: AreaUnits
Result File : /DATA/RESULT/R20P20SEP007.RES
Inject Time : 1936 20Sep1993
Run Status : RunStatusOK

Pk #	RT	Area	Code	MASSng	Name
1	3.55	416477	BB	.020	TCX
2	4.40	5329	BB	.000	
3	5.66	46861	BB	.004	
4	6.19	10260	BB	.001	
5	6.32	9888	BB	.001	
6	6.70	6518	BB	.001	
7	6.97	144132	BB	.100	ARO-1248
8	7.36	49488	BB	.004	
9	7.68	39097	BB	.003	
10	8.83	118470	BB	.100	ARO-1248-2
11	9.16	109432	BB	.100	ARO-1248-3
12	9.70	22990	BB	.002	
13	9.89	65324	BB	.100	ARO-1248-4
14	10.70	4110	BB	.000	
15	10.92	8997	BB	.001	
16	11.07	7555	BB	.001	
17	11.87	19781	BB	.002	
18	12.30	4042	BB	.000	
19	12.60	44273	BB	.100	ARO-1248-5
20	13.19	22649	BB	.002	
21	13.60	34708	BB	.003	
22	14.15	7519	BB	.001	
23	14.94	29778	BB	.003	
24	15.53	10862	BB	.001	
25	16.96	4394	BB	.000	
26	18.20	9220	BB	.001	
27	19.65	6291	BB	.001	
28	24.03	296303	BB	.020	DCB
29	26.15	28402	BB	.002	
30	28.63	35840	BB	.003	

Total Area: 1520601

Method File: /DATA/METHOD/AR1248_20.MTH
Format File: /DATA/FORMAT/DCALII.FMT
Report Time: 1912 27Sep1993



Celmic Corporation Pest/PCB Report

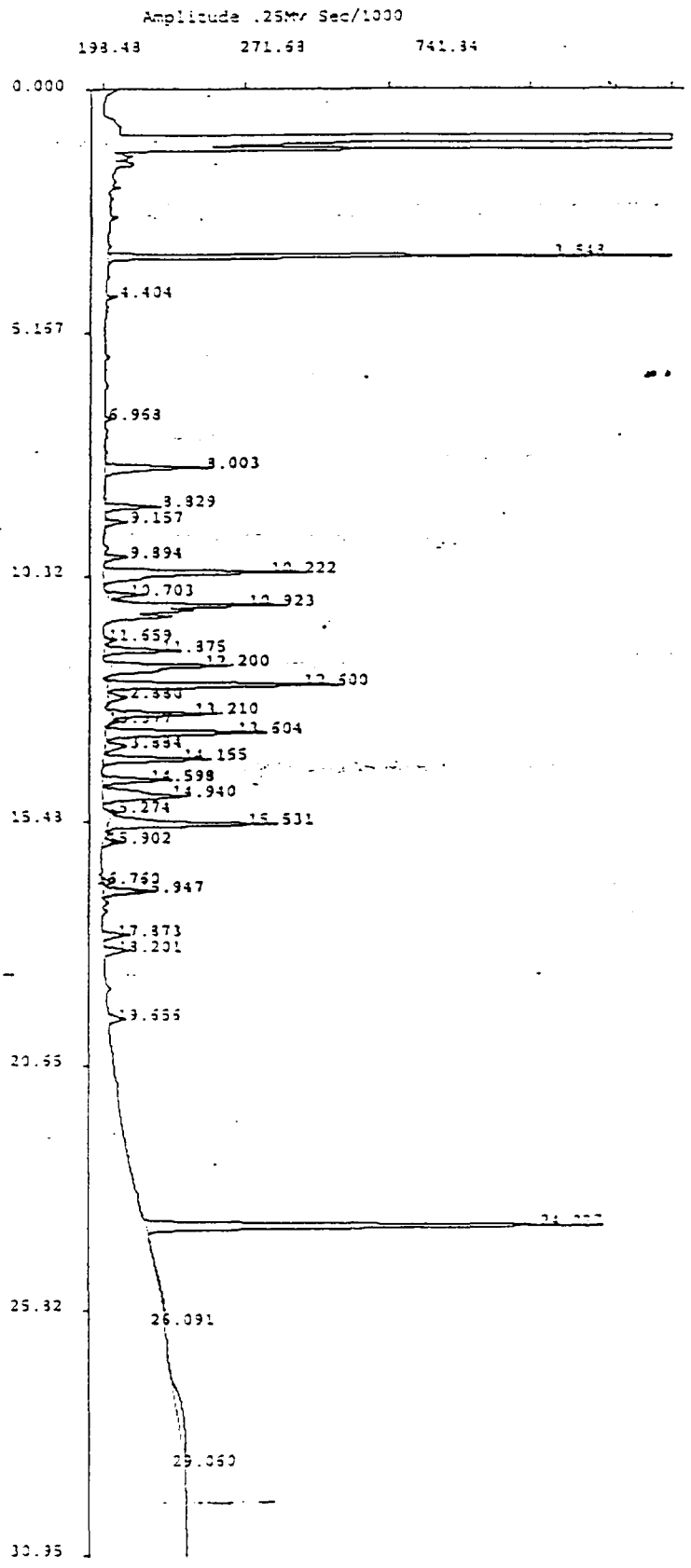
Sample Name : AR12540A
Lab Id : AR12540A ,I
Inst Id & Col : AD19_1, DB5, 0.53mm
Volume Injected: 1.0 uL Multilevel : False
Peak Processor : Genie Application : Loop
Calculation : ExternalSTD Quantitation: AreaUnits
Result File : /DATA/RESULT/R19P20SEP008.RES
Inject Time : 2011 20Sep1999
Run Status : RunStatusOK

Pk #	RT	Area	Code	MASSng	Name
1	5.04	173635	BB	.020	TCX
2	9.82	27381	BB	.100	ARO-1254
3	10.00	5121	BB	.000	
4	10.60	12842	BB	.001	
5	11.08	6155	BB	.001	
6	12.10	15837	BB	.001	
7	12.28	42502	BB	.004	
8	12.54	7287	BB	.001	
9	12.94	13561	BB	.001	
10	13.17	70156	BB	.100	ARO-1254-2
11	13.40	22779	BB	.002	
12	14.07	17949	BB	.002	
13	14.28	33901	BB	.003	
14	14.47	6244	BB	.001	
15	14.69	69358	BB	.100	ARO-1254-3
16	15.19	13956	BB	.001	
17	15.40	7337	BB	.001	
18	15.76	78024	BB	.100	ARO-1254-4
19	16.47	5355	BB	.001	
20	16.73	18393	BB	.002	
21	16.88	22869	BB	.002	
22	17.27	11521	BB	.001	
23	17.91	71896	BB	.100	ARO-1254-5
24	18.27	4891	BB	.000	
25	19.10	18551	BB	.002	
26	20.12	10121	BB	.001	
27	20.84	7490	BB	.001	
28	22.13	5052	BB	.000	
29	25.72	60102	BB	.005	
30	28.27	204914	BB	.020	DCB

Total Area: 1065302

Method File: /DATA/METHOD/AR1254_19.MTH
Format File: /DATA/FORMAT/DUALII.FMT
Report Time: 1845 27Sep1999

100899 /s



Celmic Corporation Pest/PCB Report

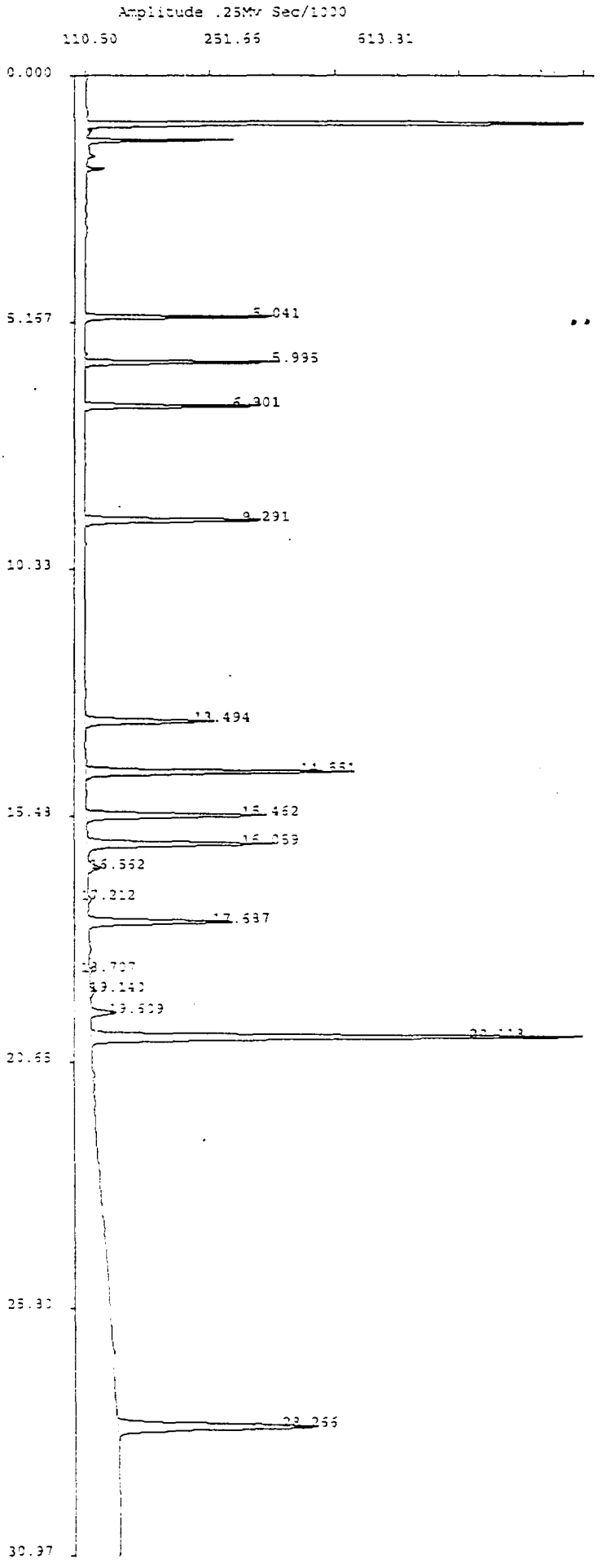
Sample Name : AR12541A
Lab Id : AR12541A ,I
Inst Id & Col : AD10_1, DB1701, 0.53mm
Volume Injected: 1.0 uL Multilevel : False
Peak Processor : Genie Application : Loop
Calculation : ExternalSTD Quantitation: AreaUnits
Result File : /DATA/RESULT/R10P20SEP008.RES
Inject Time : 2011 20Sep1999
Run Status : RunStatusOK

Pk #	RT	Area	Code	MASSng	Name
1	3.55	411415	BB	.020	TCX
2	4.40	5307	BB	.000	
3	6.97	4591	BB	.000	
4	8.00	80610	BB	.007	
5	8.83	38615	BB	.003	
6	9.16	13287	BB	.001	
7	9.89	16023	BB	.001	
8	10.22	170172	BB	.100	ARO-1254
9	10.70	20997	BB	.002	
10	10.92	73277	BB	.006	
11	11.66	6723	BB	.001	
12	11.87	53884	BB	.005	
13	12.20	40380	BB	.004	
14	12.60	164511	BB	.100	ARO-1254-2
15	12.88	14361	BB	.001	
16	13.21	72509	BB	.100	ARO-1254-3
17	13.33	5047	BB	.000	
18	13.60	124591	BB	.100	ARO-1254-4
19	13.88	17453	BB	.002	
20	14.16	75252	BB	.007	
21	14.60	48365	BB	.004	
22	14.94	92195	BB	.008	
23	15.27	6338	BB	.001	
24	15.53	143946	BB	.100	ARO-1254-5
25	15.90	13598	BB	.001	
26	16.76	5888	BB	.001	
27	16.95	38195	BB	.003	
28	17.87	21097	BB	.002	
29	18.20	20019	BB	.002	
30	19.66	15222	BB	.001	
31	24.03	366170	BB	.020	DCB
32	25.09	18175	BB	.002	
33	29.05	49837	BB	.004	

Total Area: 2248047

Method File: /DATA/METHOD/AR1254_20.MTH
Format File: /DATA/FORMAT/DUALII.FMT
Report Time: 1913 27Sep1999

1389



Ceimic Corporation Pest/PCB Report

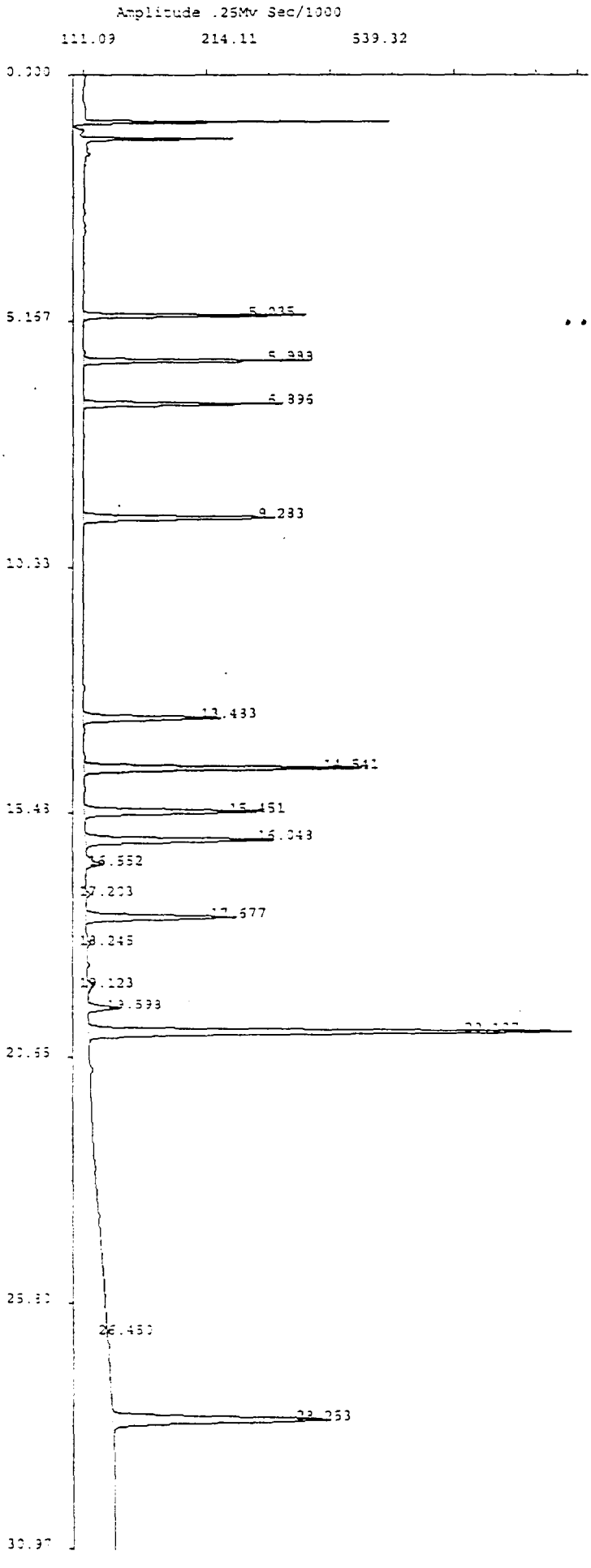
Sample Name : INDAM0B
Lab Id : INDAM0B
Inst Id & Col : AD19_1, DB5, 0.53mm
Volume Injected: 1.0 uL Multilevel : False
Peak Processor : Genie Application : Loop
Calculation : ExternalSTD Quantitation: AreaUnits
Result File : /CEIMIC21/R19P20SEP036.RES
Inject Time : 1235 21Sep1999
Run Status : RunStatusOK

100899/3

Pk #	RT	Area	Code	MASSNG	Name	ng/mg
1	5.04	182417	BB	.020	TCX	.020
2	5.99	201732	BB	.020	ALPHA-BHC	
3	6.90	201702	BB	.020	GAMMA-BHC	
4	9.29	235766	BB	.020	HEPTACHLOR	
5	13.49	196318	BB	.020	ENDOSULF. I	
6	14.55	334344	BB	.040	DIELDRIN	.040
7	15.45	271236	BB	.040	ENDRIN	
8	15.05	289553	BB	.040	4,4'-DDD	
9	16.56	24821	BB	.004	ENDRIN ALDEH	—
10	17.21	6527	BB	.001		
11	17.69	235368	BB	.040	4,4'-DDT	.040
12	18.71	4719	BB	.001		
13	19.14	12592	BB	.003		
14	19.51	43599	BB	.005	ENDRIN KETONE	—
15	20.12	833106	BB	.199	METHOXYCHLOR	.200
16	23.27	445056	BB	.039	DCB	.040

Total Area: 3568856

Method File: /DATA/METHOD/QR19P20SEP.MTH
Format File: /DATA/FORMAT/DUAL_COL.FMT
Report Time: 1147 30Oct1999



Ceimic Corporation Pest/PCB Report

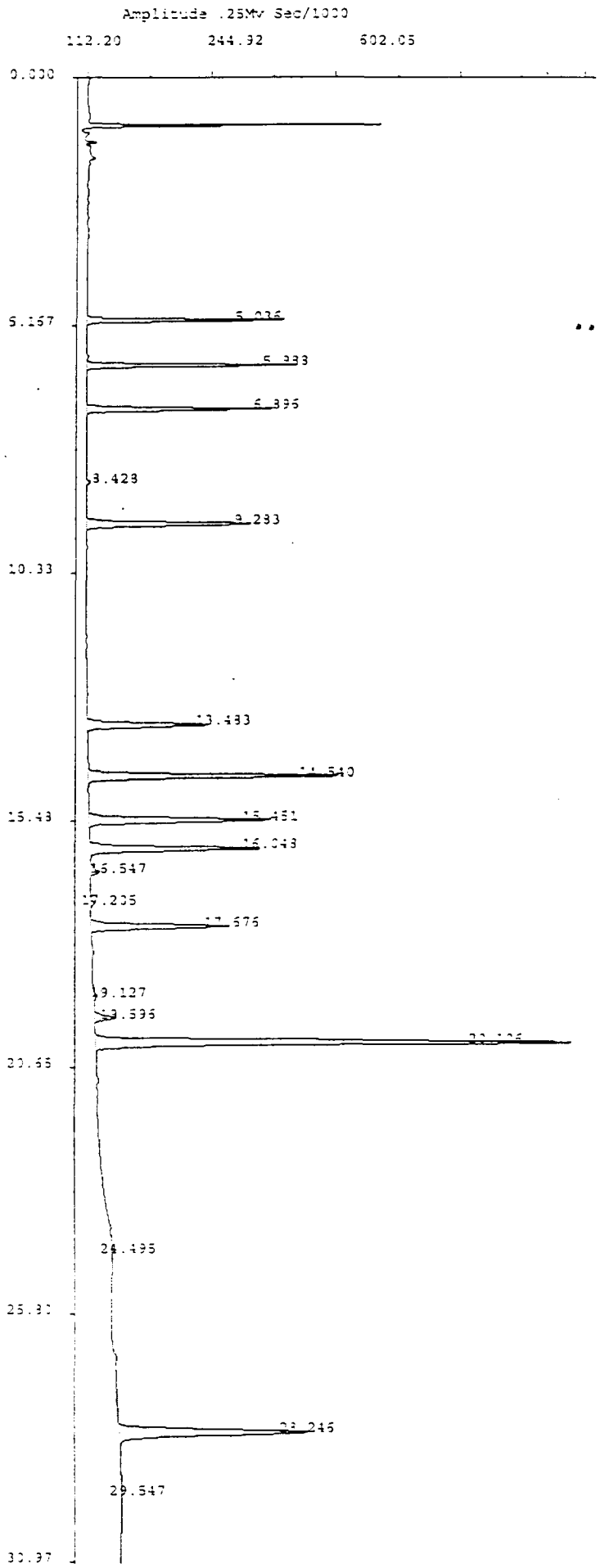
Sample Name : INDAM0C
Lab Id : INDAM0C
Inst Id & Col : AD19_1, DB5, 0.53mm
Volume Injected: 1.0 uL Multilevel : False
Peak Processor : Genie Application : Loop
Calculation : ExternalSTD Quantitation: AreaUnits
Result File : /DATA/RESULT/R19P27SEP026.RES
Inject Time : 0123 28Sep1999
Run Status : RunStatusOK
EndOffBaseline

100899/5 -- ng ug

Pk #	RT	Area	Code	MASSNG	Name	
1	5.04	176421	BB	.019	TCX	.020
2	5.99	184498	BB	.018	ALPHA-BHC	
3	6.90	186056	BB	.018	GAMMA-BHC	
4	9.28	218645	BB	.019	HEPTACHLOR	
5	13.48	185134	BB	.019	ENDOSULF. I	
6	14.54	360730	BB	.038	DIELDRIN	.040
7	15.45	244735	BB	.036	ENDRIN	
8	16.05	263093	BB	.037	4,4'-DDD	
9	16.55	26375	BB	.004	ENDRIN ALDEH	
10	17.20	7231	BB	.002		
11	17.68	208677	BB	.035	4,4'-DDT	
12	18.24	4203	BB	.001		
13	19.12	10668	BB	.002		
14	19.60	44936	BB	.005	ENDRIN KETONE	
15	20.11	724717	BB	.173	METHOXYCHLOR	.200
16	26.45	18498	BB	.004		
17	28.25	411830	BB	.036	DCB	.040

Total Area: 3276439

Method File: /DATA/METHOD/QR19P20SEP.MTH
Format File: /DATA/FORMAT/DUAL_COL.FMT
Report Time: 1224 08Oct1999



Ceimic Corporation Pest/PCB Report

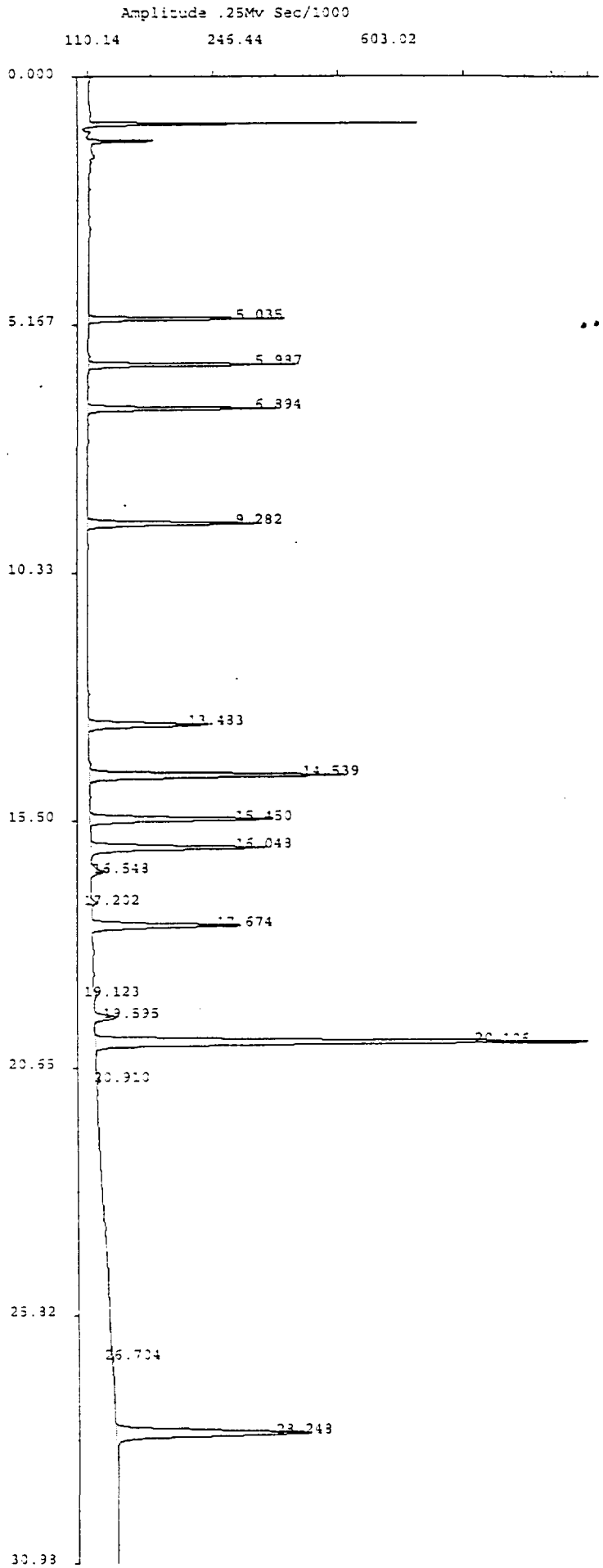
Sample Name : INDAM0D
Lab Id : INDAM0D
Inst Id & Col : AD19_1, DB5, 0.53mm
Volume Injected: 1.0 uL Multilevel : False
Peak Processor : Genie Application : Loop
Calculation : ExternalSTD Quantitation: AreaUnits
Result File : /DATA/RESULT/R19P05OCT058.RES
Inject Time : 1812 06Oct1999
Run Status : RunStatusOK

160897/B

Pk #	RT	Area	Code	MASSNG	Name	mg/kg
1	5.04	177529	BB	.019	TCX	.020
2	5.99	195059	BB	.019	ALPHA-BHC	
3	6.90	195679	BB	.019	GAMMA-BHC	
4	8.43	5665	BB	.001		
5	9.28	209956	BB	.018	HEPTACHLOR	
6	13.48	181221	BB	.019	ENDOSULF. I	
7	14.54	361036	BB	.038	DIELDRIN	.040
8	15.45	278799	BB	.041	ENDRIN	
9	16.05	266446	BB	.037	4,4'-DDD	
10	16.55	18226	BB	.003	ENDRIN ALDEH	
11	17.20	6463	BB	.001		
12	17.68	214822	BB	.036	4,4'-DDT	
13	19.13	6082	BB	.001		
14	19.60	34340	BB	.004	ENDRIN KETONE	
15	20.11	807849	BB	.193	METHOXYCHLOR	.200
16	24.49	5217	BB	.001		
17	28.25	400672	BB	.035	DCB	.040
18	29.55	11526	BB	.003		

Total Area: 3376586

Method File: /DATA/METHOD/QR19P20SEP.MTH
Format File: /DATA/FORMAT/DUAL_COL.FMT
Report Time: 1311 08Oct1999



Ceimic Corporation Pest/PCB Report

Sample Name : INDAM0E
Lab Id : INDAM0E
Inst Id & Col : AD19_1, DB5, 0.53mm
Volume Injected: 1.0 uL Multilevel : False
Peak Processor : Genie Application : Loop
Calculation : ExternalSTD Quantitation: AreaUnits
Result File : /DATA/RESULT/R19P05OCT089.RES
Inject Time : 1606 07Oct1999
Run Status : RunStatusOK
EndOffBaseline

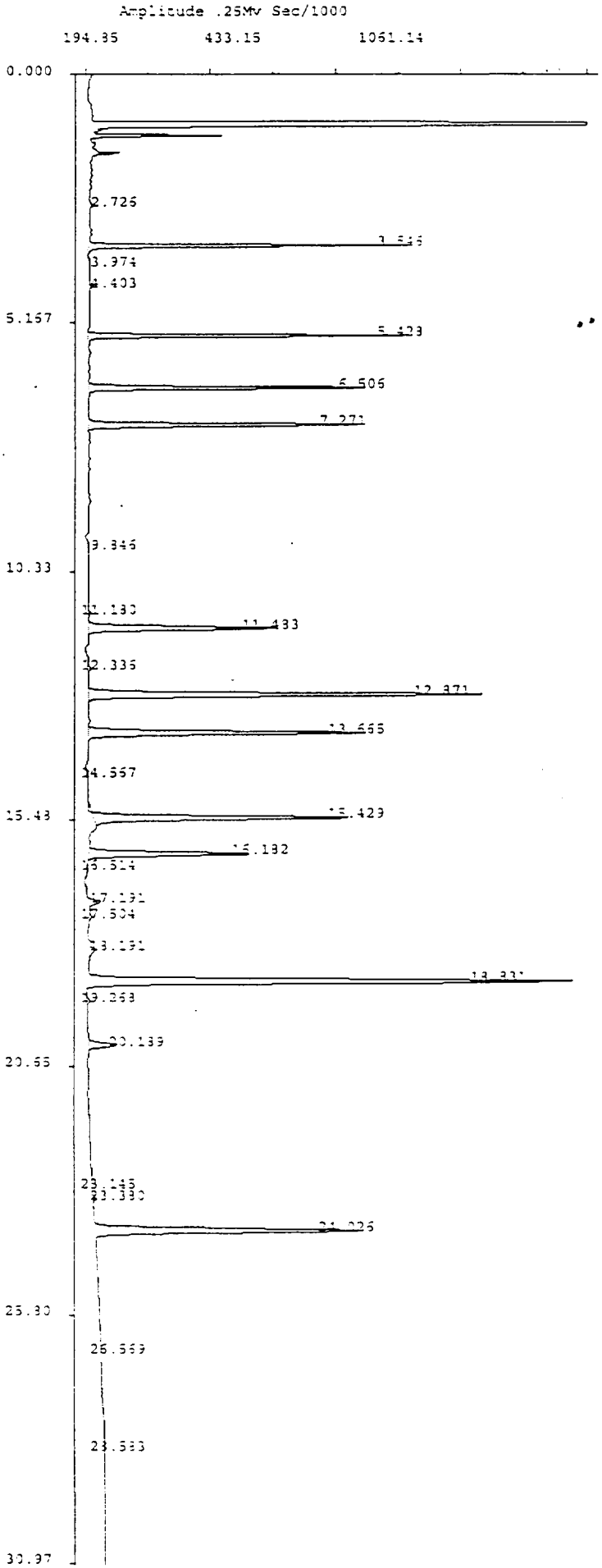
100899/1

ng/mg

Pk #	RT	Area	Code	MASSNG	Name	
1	5.03	175401	BB	.019	TCX	.020
2	5.99	190501	BB	.019	ALPHA-BHC	
3	6.39	191531	BB	.019	GAMMA-BHC	
4	9.23	215146	BB	.018	HEPTACHLOR	
5	13.43	181530	BB	.019	ENDOSULF. I	
6	14.54	359832	BB	.038	DIELDRIN	.040
7	15.45	265958	BB	.039	ENDRIN	
8	16.05	259714	BB	.036	4,4'-DDD	
9	16.55	23229	BB	.004	ENDRIN ALDEH	
10	17.20	7291	BB	.002		
11	17.67	227715	BB	.038	4,4'-DDT	
12	19.12	6023	BB	.001		
13	19.59	37344	BB	.004	ENDRIN KETONE	—
14	20.11	825206	BB	.197	METHOXYCHLOR	.200
15	20.91	4136	BB	.001		
16	26.70	4183	BB	.001		
17	28.25	429651	BB	.038	DCB	.040

Total Area: 3404392

Method File: /DATA/METHOD/QR19P20SEP.MTH
Format File: /DATA/FORMAT/DUAL_COL.FMT
Report Time: 1332 08Oct1999



Ceimic Corporation Pest/PCB Report

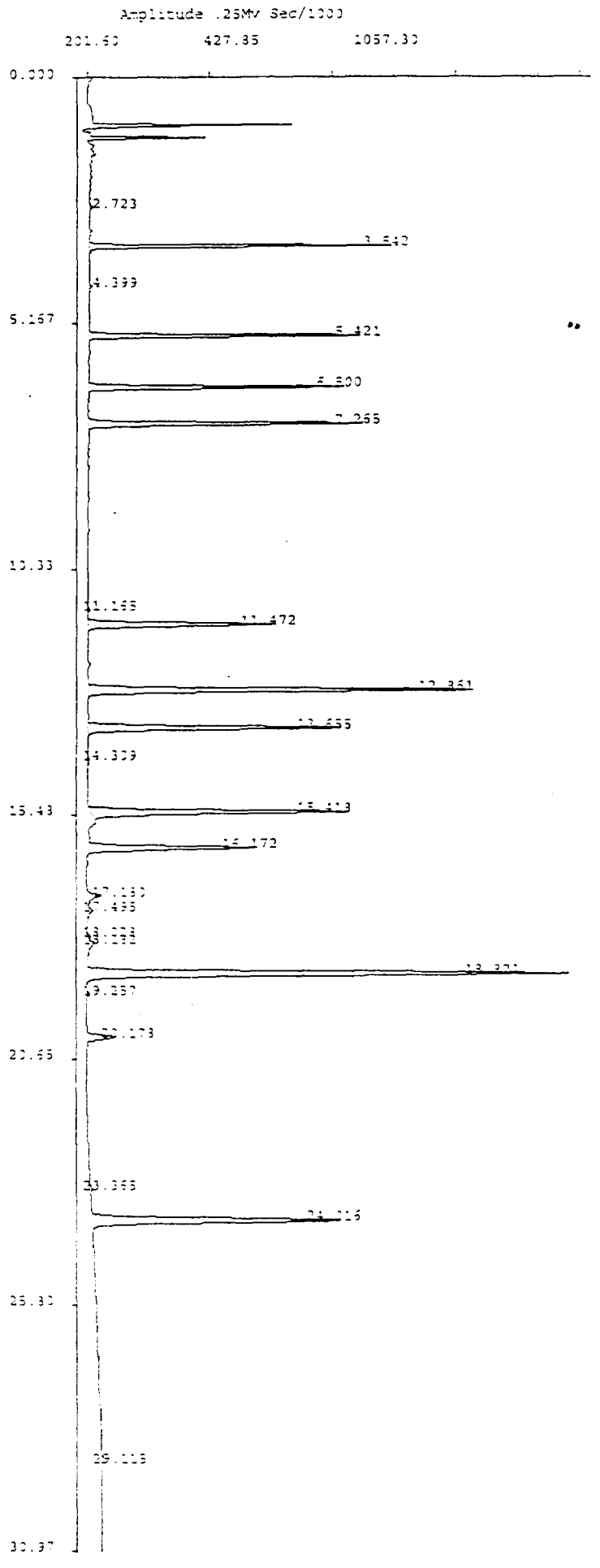
Sample Name : INDAM1B
Lab Id : INDAM1B
Inst Id & Col : AD20_1, DB1701, 0.53 mm
Volume Injected: 1.0 uL Multilevel : False
Peak Processor : Genie Application : Loop
Calculation : ExternalSTD Quantitation: AreaUnits
Result File : /CEIMIC21/R20P20SEP036.RES
Inject Time : 1235 21Sep1999
Run Status : RunStatusOK

100899/3

Pk #	RT	Area	Code	MASSNG	Name	mg/kg
1	2.73	6561	BB	.001		
2	3.55	443783	BB	.020	TCX	.020
3	3.97	7748	BB	.002		
4	4.40	5298	BB	.001		
5	5.43	488739	BB	.020	ALPHA-BHC	
6	6.51	492936	BB	.020	GAMMA-BHC	
7	7.27	520626	BB	.020	HEPTACHLOR	
8	9.85	11897	BB	.003		
9	11.18	5196	BB	.001		
10	11.48	455932	BB	.020	ENDOSULF. I	
11	12.34	14971	BB	.001	4,4'-DDE	
12	12.87	913997	BB	.041	DIELDRIN	.040
13	13.67	550839	BB	.040	ENDRIN	
14	14.57	4382	BB	.001		
15	15.43	641625	BB	.041	4,4'-DDD	
16	16.13	423876	BB	.040	4,4'-DDT	
17	16.51	8546	BB	.002		
18	17.19	47100	BB	.004	ENDRIN ALDEH	—
19	17.50	8735	BB	.002		
20	18.19	20906	BB	.005		
21	18.83	1361574	BB	.198	METHOXYCHLOR	.200
22	19.27	10447	BB	.002		
23	20.19	72905	BB	.005	ENDRIN KETONE	—
24	23.15	7095	BB	.002		
25	23.33	6422	BB	.001		
26	24.03	775527	BB	.041	DCB	.040
27	26.57	10613	BB	.002		
28	28.53	7270	BB	.002		

Total Area: 7425752

Method File: /DATA/METHOD/QR20P20SEP.MTH
Format File: /DATA/FORMAT/DUAL_COL.FMT
Report Time: 1152 08Oct1999



Ceimic Corporation Pest/PCB Report

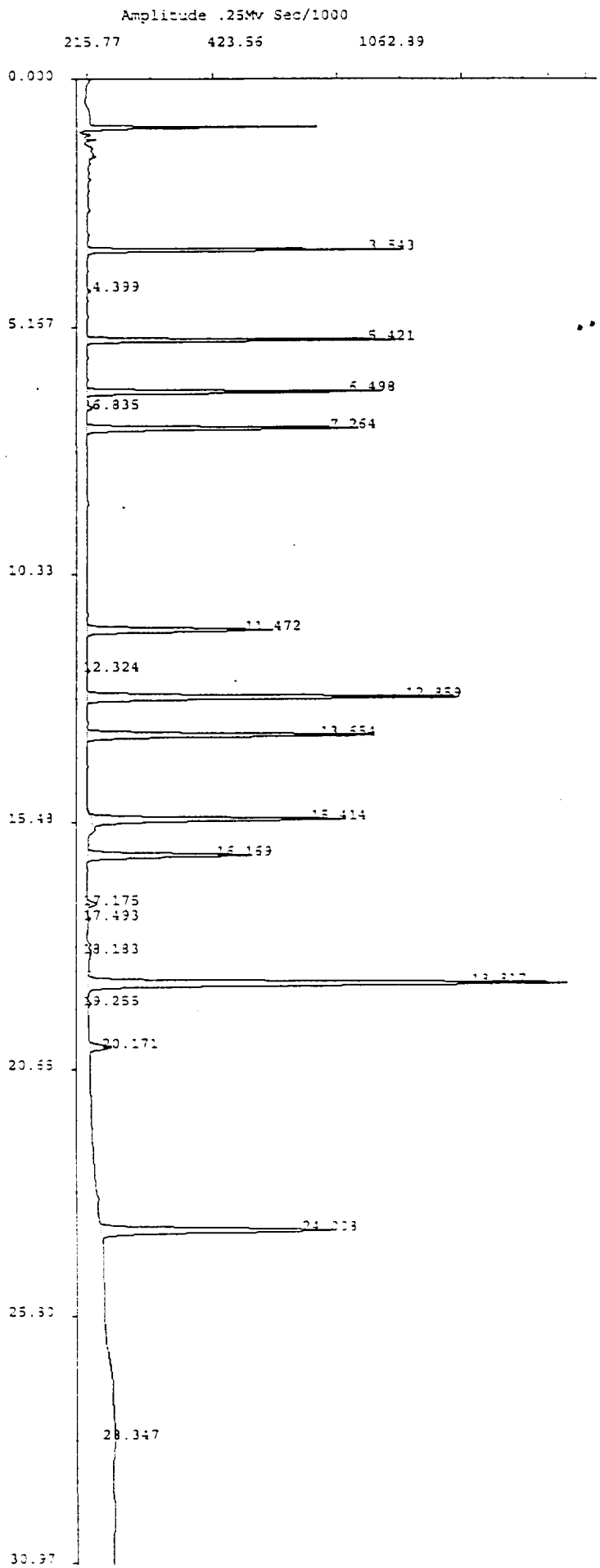
Sample Name : INDAM1C
Lab Id : INDAM1C
Inst Id & Col : AD20_1, DB1701, 0.53 mm
Volume Injected: 1.0 uL Multilevel : False
Peak Processor : Genie Application : Loop
Calculation : ExternalSTD Quantitation: AreaUnits
Result File : /DATA/RESULT/R20P27SEP026.RES
Inject Time : 0123 28Sep1999
Run Status : RunStatusOK

100899/S

Pk #	RT	Area	Code	MASSNG	Name	ng ug
1	2.72	4992	BB	.001		
2	3.54	436268	BB	.020	TCX	.020
3	4.40	5144	BB	.001		
4	5.42	460056	BB	.019	ALPHA-BHC	
5	6.50	464497	BB	.019	GAMMA-BHC	
6	7.27	530274	BB	.020	HEPTACHLOR	
7	11.17	5098	BB	.001		
8	11.47	443322	BB	.020	ENDOSULF. I	
9	12.86	896795	BB	.040	DIELDRIN	.040
10	13.66	610539	BB	.038	ENDRIN	
11	14.31	6735	BB	.001		
12	15.42	636003	BB	.040	4,4'-DDD	
13	16.17	415402	BB	.039	4,4'-DDT	
14	17.18	35150	BB	.003	ENDRIN ALDEH	—
15	17.50	10734	BB	.002		
16	18.03	4456	BB	.001		
17	18.18	17918	BB	.004		
18	18.82	1348420	BB	.196	METHOXYCHLOR	.200
19	19.26	7015	BB	.002		
20	20.18	74201	BB	.005	ENDRIN KETONE	—
21	23.36	6230	BB	.001		
22	24.02	752413	BB	.040	DCB	.040
23	29.11	31757	BB	.007		

Total Area: 7203421

Method File: /DATA/METHOD/QR20P20SEP.MTH
Format File: /DATA/FORMAT/DUAL_COL.FMT
Report Time: 1229 08Oct1999



Ceimic Corporation Pest/PCB Report

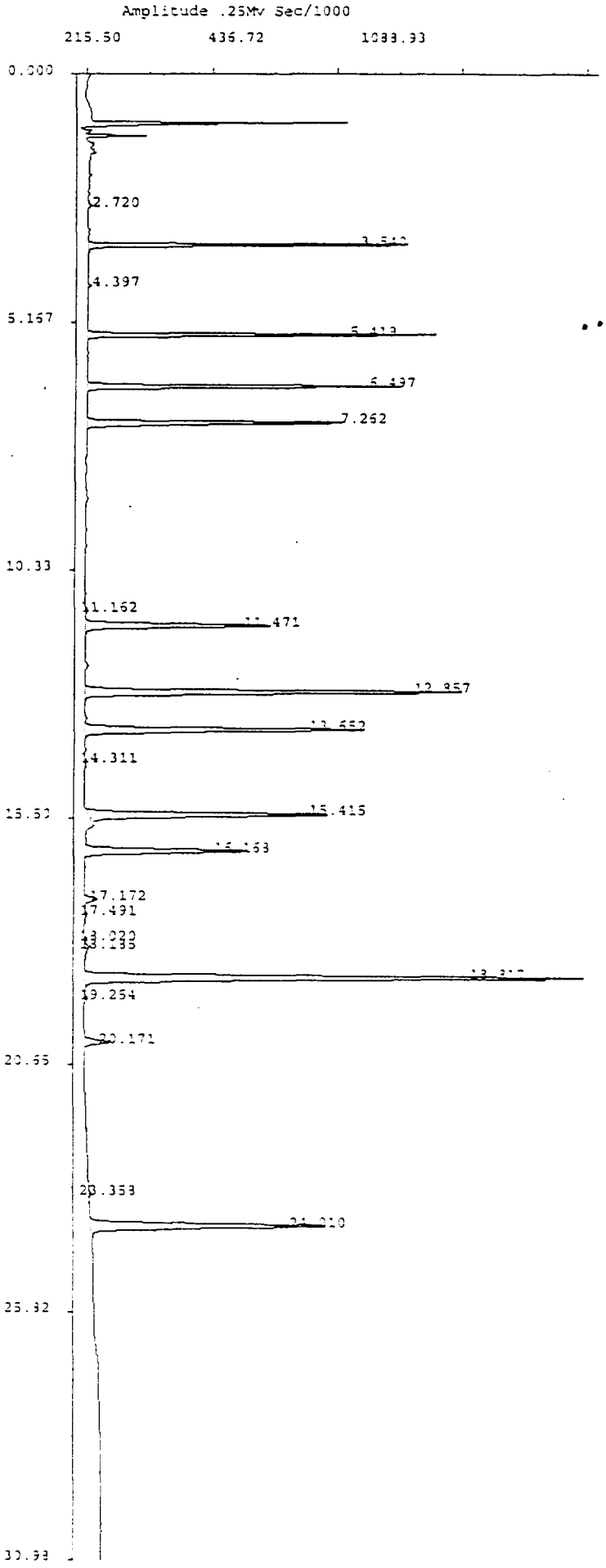
Sample Name : INDAM1D
Lab Id : INDAM1D
Inst Id & Col : AD20_1, DB1701, 0.53 mm
Volume Injected: 1.0 uL Multilevel : False
Peak Processor : Genie Application : Loop
Calculation : ExternalSTD Quantitation: AreaUnits
Result File : /DATA/RESULT/R20P05OCT058.RES
Inject Time : 1812 06Oct1999
Run Status : RunStatusOK

100899/B

Pk #	RT	Area	Code	MASSNG	Name	
1	3.54	433733	BB	.020	TCX	.020
2	4.40	5379	BB	.001		
3	5.42	511308	BB	.021	ALPHA-BHC	
4	6.50	508215	BB	.021	GAMMA-BHC	
5	6.83	9970	BB	.002		
6	7.26	510368	BB	.020	HEPTACHLOR	
7	11.47	430904	BB	.019	ENDOSULF. I	
8	12.32	5791	BB	.000	4,4'-DDE	—
9	12.86	856298	BB	.038	DIELDRIN	.040
10	13.65	660879	BB	.041	ENDRIN	
11	15.41	591001	BB	.038	4,4'-DDD	
12	16.17	392177	BB	.037	4,4'-DDT	
13	17.18	23262	BB	.002	ENDRIN ALDEH	—
14	17.49	6814	BB	.001		
15	18.18	12167	BB	.003		
16	18.82	1319272	BB	.191	METHOXYCHLOR	.200
17	19.26	6521	BB	.001		
18	20.17	52973	BB	.004	ENDRIN KETONE	—
19	24.01	660705	BB	.035	DCB	.040
20	28.35	57386	BB	.013		

Total Area: 7055124

Method File: /DATA/METHOD/QR20P20SEP.MTH
Format File: /DATA/FORMAT/DUAL_COL.FMT
Report Time: 1316 08Oct1999



Ceimic Corporation Pest/PCB Report

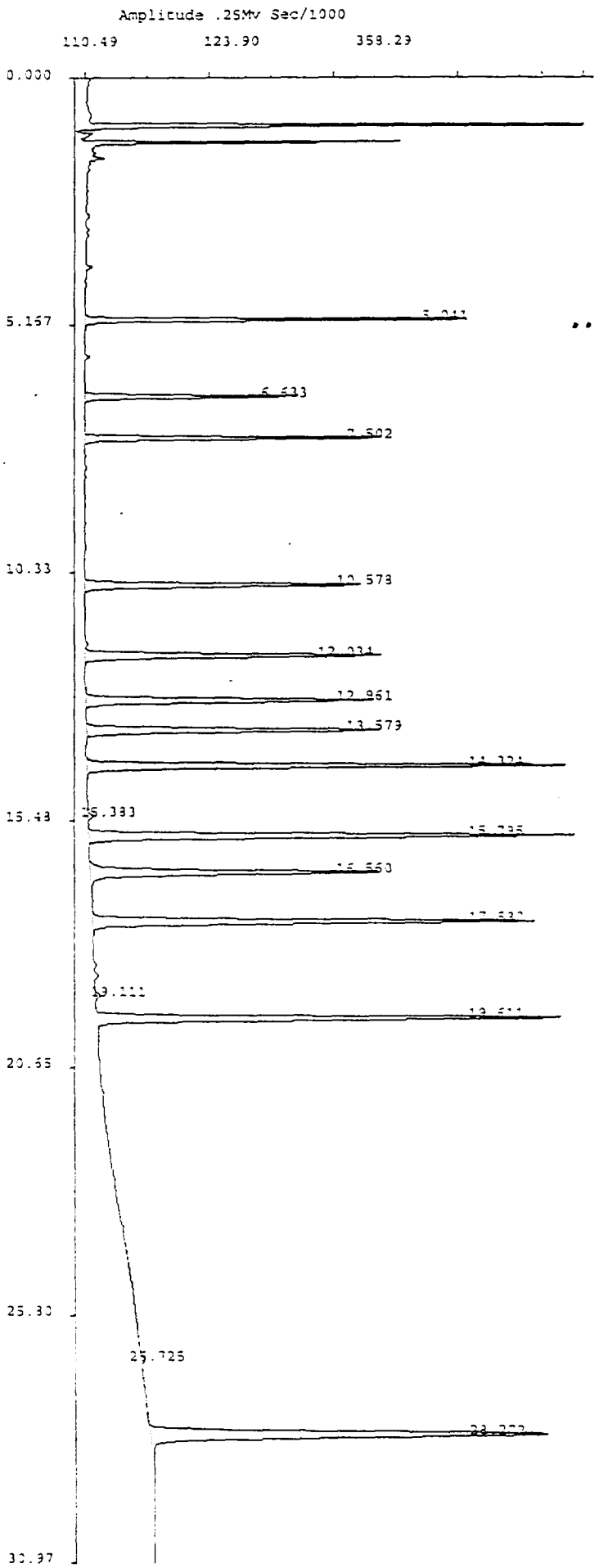
Sample Name : INDAM1E
Lab Id : INDAM1E
Inst Id & Col : AD20_1, DB1701, 0.53 mm
Volume Injected: 1.0 uL Multilevel : False
Peak Processor : Genie Application : Loop
Calculation : ExternalSTD Quantitation: AreaUnits
Result File : /DATA/RESULT/R20P05OCT089.RES
Inject Time : 1606 07Oct1999
Run Status : RunStatusOK

1606899/3

Pk #	RT	Area	Code	MASSNG	Name	mg/kg
1	2.72	7035	BB	.002		
2	3.54	446626	BB	.020	TCX	.020
3	4.40	5573	BB	.001		
4	5.42	521257	BB	.022	ALPHA-BHC	
5	6.50	521550	BB	.021	GAMMA-BHC	
6	7.26	532354	BB	.020	HEPTACHLOR	
7	11.16	4371	BB	.001		
8	11.47	455477	BB	.020	ENDOSULF. I	
9	12.86	901559	BB	.040	DIELDRIN	.040
10	13.65	670533	BB	.041	ENDRIN	
11	14.31	4319	BB	.001		
12	15.41	623036	BB	.040	4,4'-DDD	
13	16.17	422411	BB	.039	4,4'-DDT	
14	17.17	30268	BB	.003	ENDRIN ALDEH	—
15	17.49	5977	BB	.002		
16	18.02	4260	BB	.001		
17	18.13	15898	BB	.003		
18	18.82	1357390	BB	.198	METHOXYCHLOR	.200
19	19.25	7208	BB	.002		
20	20.17	65213	BB	.005	ENDRIN KETONE	—
21	23.36	5134	BB	.001		
22	24.01	593339	BB	.036	DCB	.040

Total Area: 7318290

Method File: /DATA/METHOD/QR20P20SEP.MTH
Format File: /DATA/FORMAT/DUAL_COL.FMT
Report Time: 1337 08Oct1999



Ceimic Corporation Pest/PCB Report

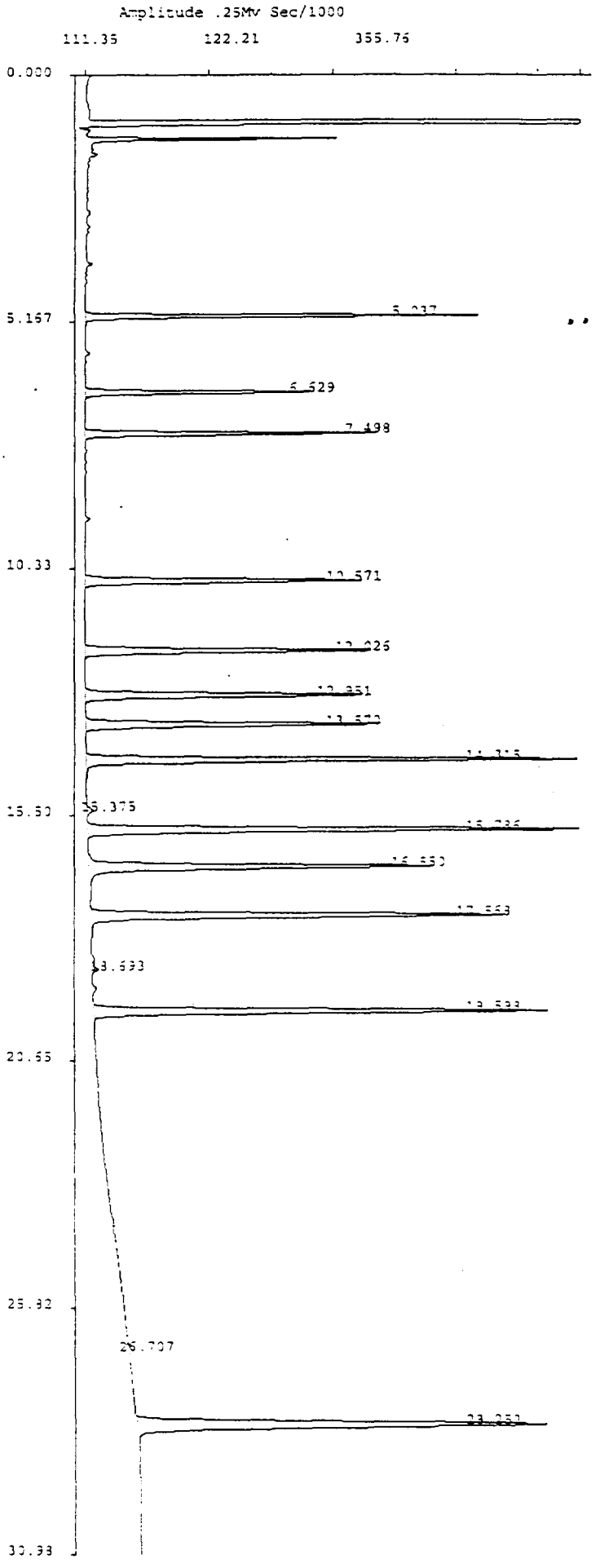
Sample Name : INDBM0B
Lab Id : INDBM0B
Inst Id & Col : AD19_1, DB5, 0.53mm
Volume Injected: 1.0 uL
Multilevel : False
Peak Processor : Genie
Application : Loop
Calculation : ExternalSTD
Quantitation: AreaUnits
Result File : /CEIMIC21/R19P20SEP037.RES
Inject Time : 1311 21Sep1999
Run Status : RunStatusOK
EndOffBaseline

100899/B

Pk #	RT	Area	Code	MASSNG	Name	mg/kg
1	5.04	180096	BB	.020	TCX	.020
2	6.63	121789	BB	.020	BETA-BHC	
3	7.50	172166	BB	.021	DELTA-BHC	
4	10.58	191829	BB	.020	ALDRIN	
5	12.03	207682	BB	.021	H. EPOXIDE	
6	12.96	218699	BB	.020	G. CHLORDANE	
7	13.58	219801	BB	.020	A. CHLORDANE	
8	14.32	353191	BB	.041	4,4'-DDE	.040
9	15.38	4295	BB	.001		
10	15.80	375642	BB	.041	ENDOSULF. II	
11	16.56	248499	BB	.041	ENDRIN ALDEH	
12	17.58	356633	BB	.041	ENDO. SULFAT	
13	19.11	4053	BB	.001		
14	19.61	373984	BB	.041	ENDRIN KETONE	
15	26.73	21419	BB	.005		
16	28.27	445228	BB	.039	DCB	

Total Area: 3495011

Method File: /DATA/METHOD/QR19P20SEP.MTH
Format File: /DATA/FORMAT/DUAL_COL.FMT
Report Time: 1149 08Oct1999



Ceimic Corporation Pest/PCB Report

Sample Name : INDBM0C
Lab Id : INDBM0C
Inst Id & Col : AD19_1, DB5, 0.53mm
Volume Injected: 1.0 uL Multilevel : False
Peak Processor : Genie Application : Loop
Calculation : ExternalSTD Quantitation: AreaUnits
Result File : /DATA/RESULT/R19P27SEP027.RES
Inject Time : 0158 28Sep1999
Run Status : RunStatusOK
EndOffBaseline

100899/3

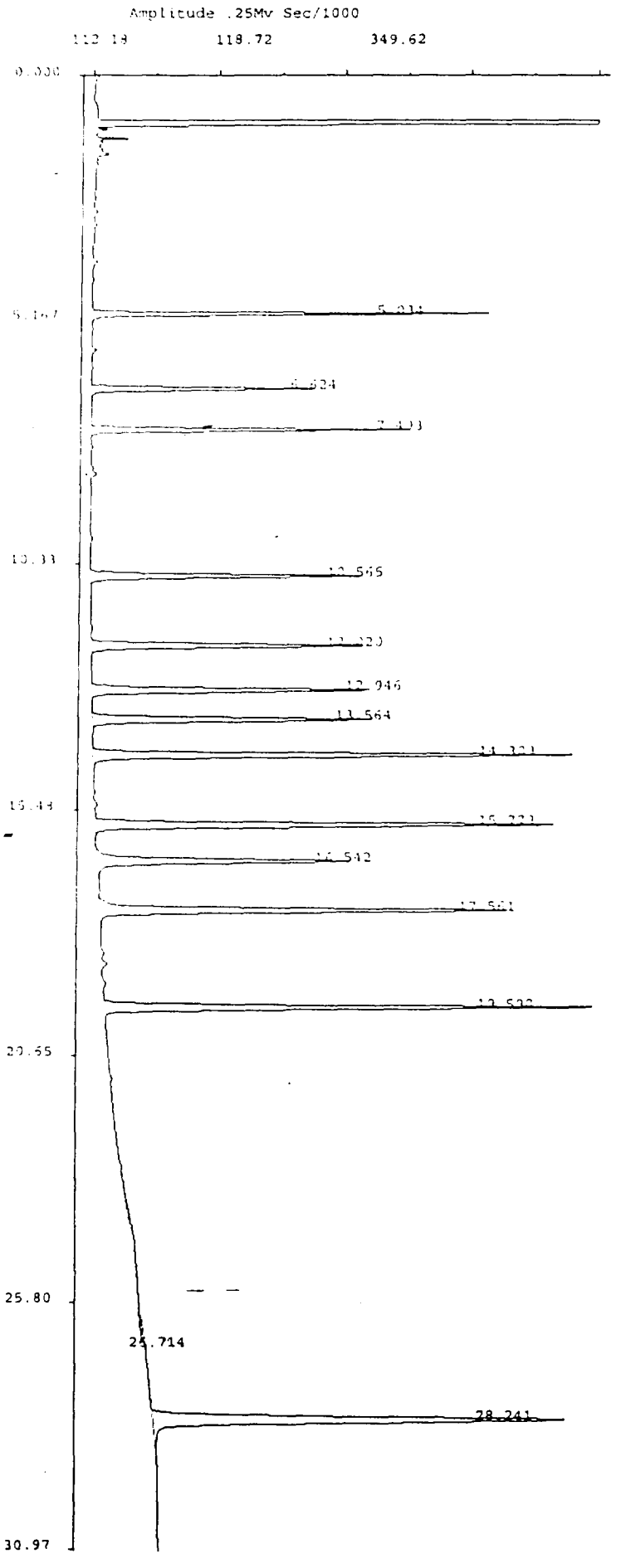
mg-mg

Pk #	RT	Area	Code	MASSNG	Name	
1	5.04	180847	BB	.020	TCX	.026
2	6.63	119929	BB	.020	BETA-BHC	
3	7.50	161723	BB	.019	DELTA-BHC	
4	10.57	191404	BB	.020	ALDRIN	
5	12.03	207146	BB	.020	H. EPOXIDE	
6	12.95	215498	BB	.020	G. CHLORDANE	
7	13.57	218924	BB	.020	A. CHLORDANE	
8	14.32	358120	BB	.042	4,4'-DDE	.040
9	15.38	4595	BB	.001		
10	15.79	372554	BB	.041	ENDOSULF. II	
11	16.55	283214	BB	.046	ENDRIN ALDEH	
12	17.57	347056	BB	.040	ENDO. SULFAT	
13	18.69	4903	BB	.001		
14	19.60	364578	BB	.040	ENDRIN KETONE	
15	26.71	12782	BB	.003		
16	28.25	442959	BB	.039	DCB	

Total Area: 3486235

Method File: /DATA/METHOD/QR19P20SEP.MTH
Format File: /DATA/FORMAT/DUAL_COL.FMT
Report Time: 1227 08Oct1999

1303



Ceimic Corporation Pest/PCB Report

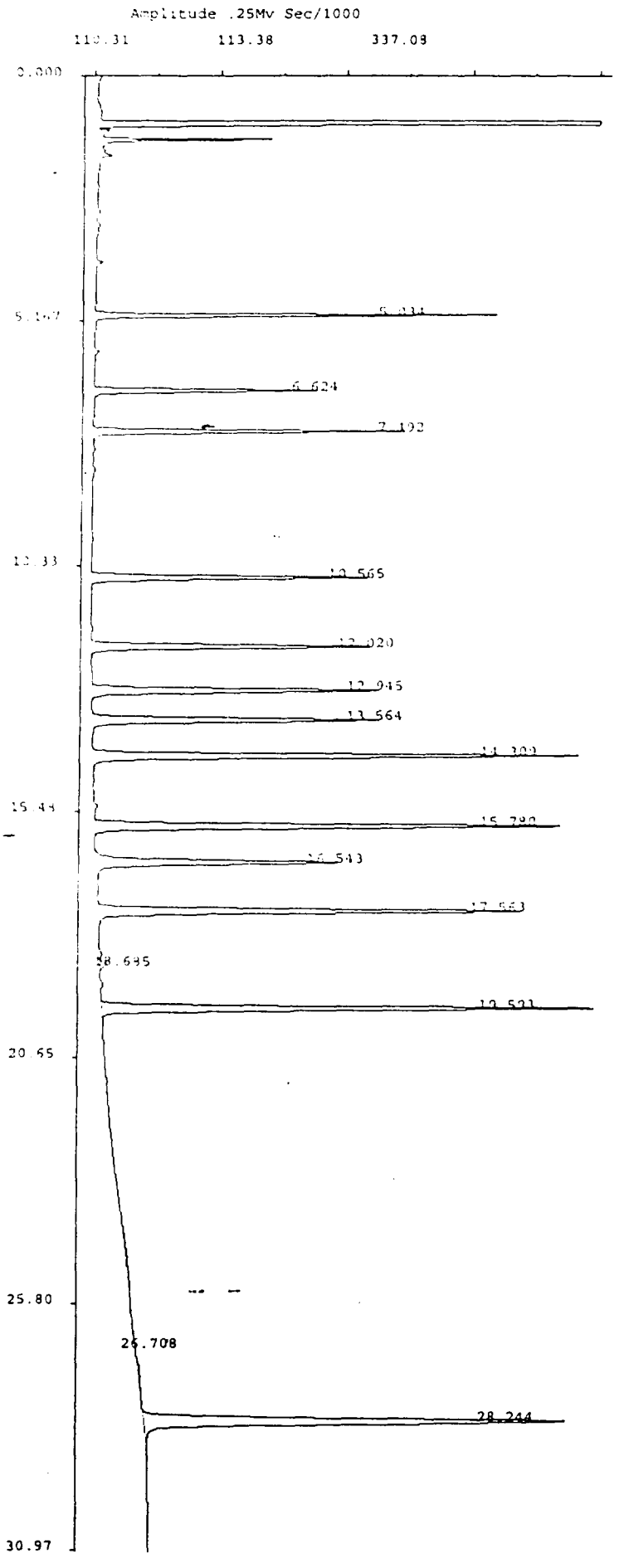
Sample Name : INDBM0D
Lab Id : INDBM0D
Inst Id & Col : AD19_1, DB5, 0.53mm
Volume Injected: 1.0 uL Multilevel : False
Peak Processor : Genie Application : Loop
Calculation : ExternalSTD Quantitation: AreaUnits
Result File : /DATA/RESULT/R19P05OCT059.RES
Inject Time : 1847 06Oct1999
Run Status : RunStatusOK
EndOffBaseline

100 ng/g

Pk #	RT	Area	Code	MASSNG	Name
1	5.03	169094	BB	.019	TCX
2	6.62	115838	BB	.019	BETA-BHC
3	7.49	163405	BB	.020	DELTA-BHC
4	10.57	169946	BB	.018	ALDRIN
5	12.02	192400	BB	.019	H. EPOXIDE
6	12.95	201913	BB	.019	G. CHLORDANE
7	13.56	201827	BB	.019	A. CHLORDANE
8	14.31	330907	BB	.038	4,4'-DDE
9	15.78	341633	BB	.037	ENDOSULF. II
10	16.54	205301	BB	.034	ENDRIN ALDEH
11	17.56	312594	BB	.036	ENDO. SULFAT
12	19.59	360763	BB	.040	ENDRIN KETONE
13	26.71	21226	BB	.005	
14	28.24	434959	BB	.038	DCB

Total Area: 3221805

Method File: /DATA/METHOD/QR19P20SEP.MTH
Format File: /DATA/FORMAT/DUAL_COL.FMT
Report Time: 1313 08Oct1999



Ceimic Corporation Pest/PCB Report

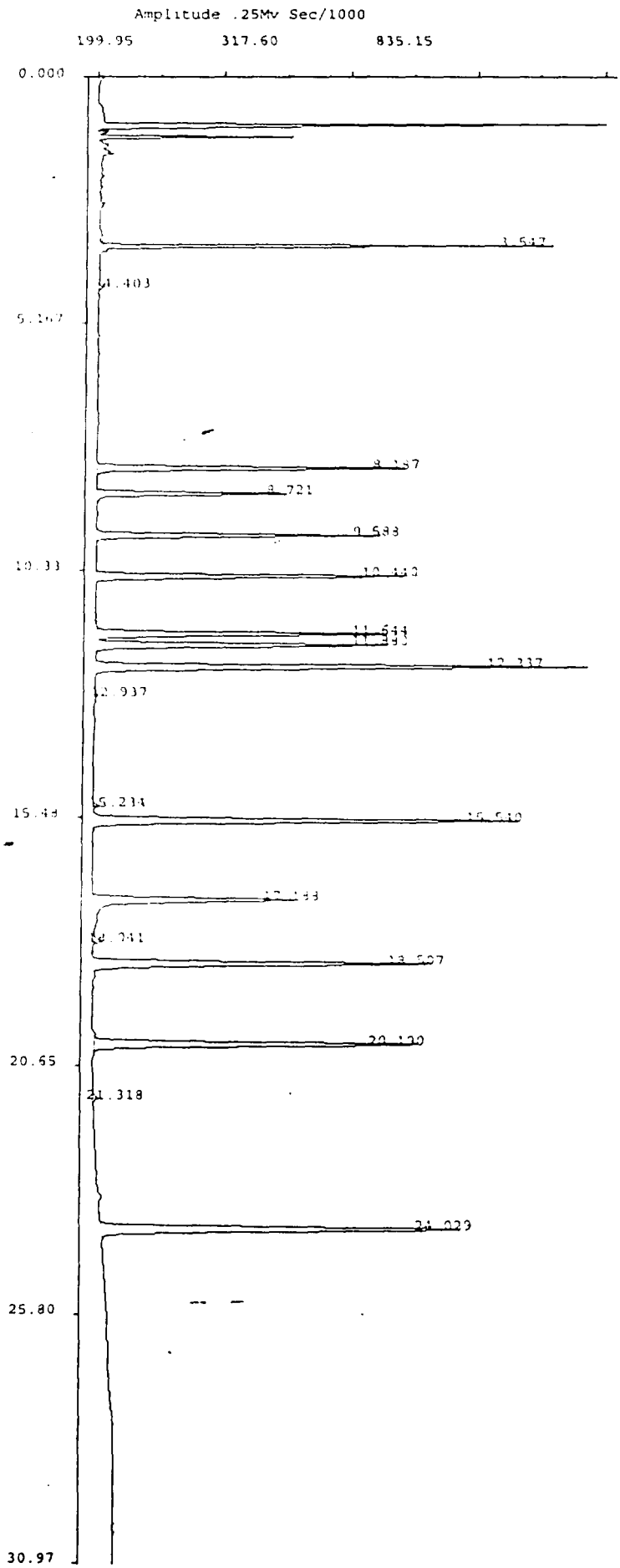
Sample Name : INDBM0E
Lab Id : INDBM0E
Inst Id & Col : AD19_1, DB5, 0.53mm
Volume Injected: 1.0 uL Multilevel : False
Peak Processor : Genie Application : Loop
Calculation : ExternalSTD Quantitation: AreaUnits
Result File : /DATA/RESULT/R19P05OCT090.RES
Inject Time : 1641 07Oct1999
Run Status : RunStatusOK
EndOffBaseline

160894/5

Pk #	RT	Area	Code	MASSNG	Name
1	5.03	164823	BB	.018	TCX
2	6.62	112285	BB	.019	BETA-BHC
3	7.49	154020	BB	.018	DELTA-BHC
4	10.56	167758	BB	.018	ALDRIN
5	12.02	190513	BB	.019	H. EPOXIDE
6	12.95	201587	BB	.019	G. CHLORDANE
7	13.56	200458	BB	.019	A. CHLORDANE
8	14.31	323197	BB	.037	4,4'-DDE
9	15.78	334742	BB	.037	ENDOSULF. II
10	16.54	188517	BB	.031	ENDRIN ALDEH
11	17.56	305064	BB	.035	ENDO. SULFAT
12	18.68	4914	BB	.001	
13	19.59	349685	BB	.038	ENDRIN KETONE
14	26.71	6016	BB	.001	
15	28.24	428111	BB	.038	DCB

Total Area: 3131692

Method File: /DATA/METHOD/QR19P20SEP.MTH
Format File: /DATA/FORMAT/DUAL_COL.FMT
Report Time: 1334 08Oct1999



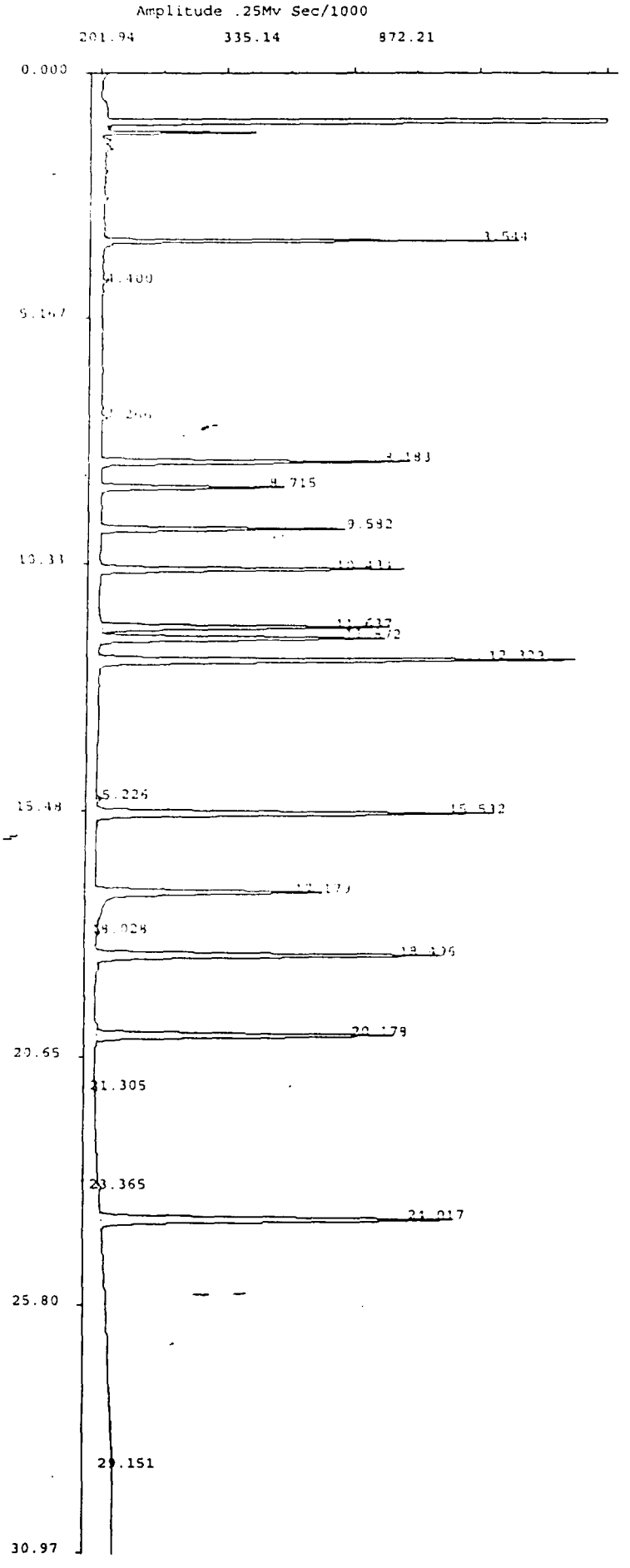
Ceimic Corporation Pest/PCB Report

Sample Name : INDBM1B
Lab Id : INDBM1B
Inst Id & Col : AD20_1, DB1701, 0.53 mm
Volume Injected: 1.0 uL Multilevel : False
Peak Processor : Genie Application : Loop
Calculation : ExternalSTD Quantitation: AreaUnits
Result File : /CEIMIC21/R20P20SEP037.RES
Inject Time : 1311 21Sep1999
Run Status : RunStatusOK 160899/S

Pk #	RT	Area	Code	MASSNG	Name	mg/kg
1	3.55	416723	BB	.019	TCX	.020
2	4.40	5808	BB	.001		
3	8.19	478314	BB	.021	ALDRIN	
4	8.72	286475	BB	.021	BETA-BHC	
5	9.59	403322	BB	.021	DELTA-BHC	
6	10.44	491930	BB	.021	H. EPOXIDE	
7	11.64	487398	BB	.021	G. CHLORDANE	
8	11.88	494134	BB	.021	A. CHLORDANE	
9	12.34	845466	BB	.041	4,4'-DDE	.040
10	12.94	4490	BB	.000	DIELDRIN	
11	15.23	8344	BB	.002		
12	15.54	784453	BB	.041	ENDOSULF. II	
13	17.19	409218	BB	.038	ENDRIN ALDEH	
14	18.04	15047	BB	.003		
15	18.51	645039	BB	.041	ENDO. SULFAT	
16	20.19	596335	BB	.041	ENDRIN KETONE	
17	21.32	8745	BB	.002		
18	24.03	762963	BB	.040	DCB	

Total Area: 7144204

Method File: /DATA/METHOD/QR20P20SEP.MTH
Format File: /DATA/FORMAT/DUAL_COL.FMT
Report Time: 1154 08Oct1999



Celmic Corporation Pest/PCB Report

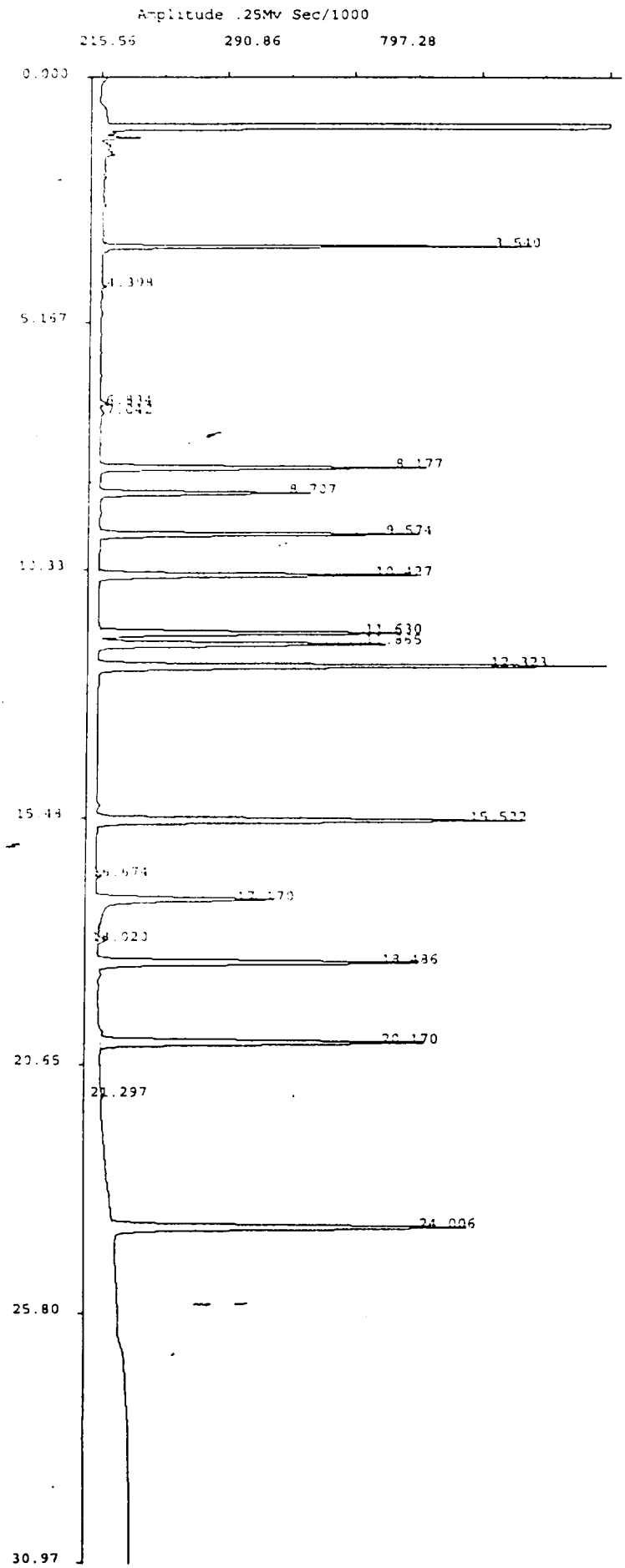
Sample Name : INDBM1C
Lab Id : INDBM1C
Inst Id & Col : AD20_1, DB1701, 0.53 mm
Volume Injected: 1.0 uL Multilevel : False
Peak Processor : Genie Application : Loop
Calculation : ExternalSTD Quantitation: AreaUnits
Result File : /DATA/RESULT/R20P27SEP027.RES
Inject Time : 0158 28Sep1999
Run Status : RunStatusOK

100899/1

Pk #	RT	Area	Code	MASSNG	Name
1	3.54	432032	BB	.020	TCX
2	4.40	5666	BB	.001	
3	7.27	6831	BB	.000	HEPTACHLOR
4	8.18	499198	BB	.022	ALDRIN
5	8.72	285034	BB	.020	BETA-BHC
6	9.58	388219	BB	.020	DELTA-BHC
7	10.43	508895	BB	.021	H. EPOXIDE
8	11.64	502921	BB	.021	G. CHLORDANE
9	11.87	518976	BB	.022	A. CHLORDANE
10	12.33	891610	BB	.044	4,4'-DDE
11	15.23	8597	BB	.002	
12	15.53	781794	BB	.041	ENDOSULF. II
13	17.18	535333	BB	.049	ENDRIN ALDEH
14	18.03	4602	BB	.001	
15	18.50	685774	BB	.044	ENDO. SULFAT
16	20.18	577273	BB	.040	ENDRIN KETONE
17	21.30	5710	BB	.001	
18	23.36	6989	BB	.002	
19	24.02	808770	BB	.043	DCB
20	29.15	12570	BB	.003	

Total Area: 7466795

Method File: /DATA/METHOD/QR20P20SEP.MTH
Format File: /DATA/FORMAT/DUAL_COL.FMT
Report Time: 1232 08Oct1999



Ceimic Corporation Pest/PCB Report

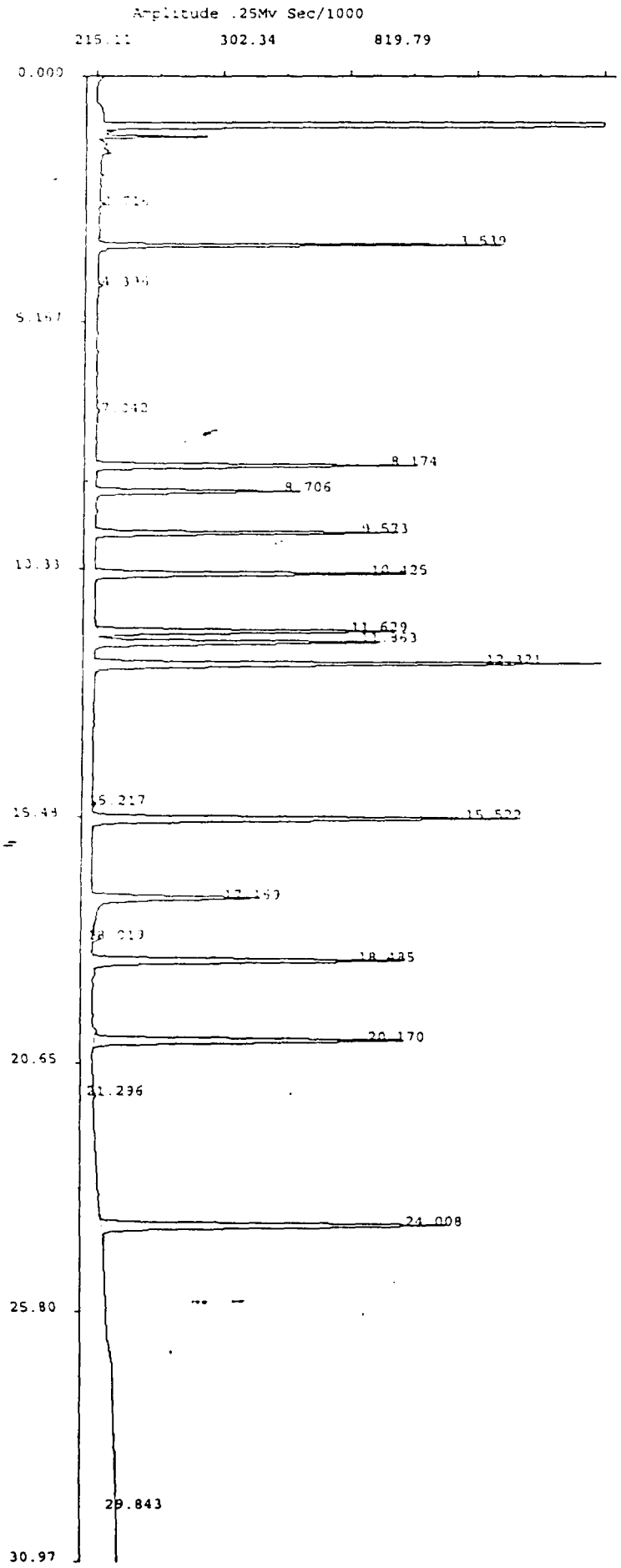
Sample Name : INDBM1D
Lab Id : INDBM1D
Inst Id & Col : AD20_1, DB1701, 0.53 mm
Volume Injected: 1.0 uL Multilevel : False
Peak Processor : Genie Application : Loop
Calculation : ExternalSTD Quantitation: AreaUnits
Result File : /DATA/RESULT/R20P05OCT059.RES
Inject Time : 1847 06Oct1999
Run Status : RunStatusOK

100849/5

Pk #	RT	Area	Code	MASSNG	Name
1	3.54	404870	BB	.018	TCX
2	4.40	5026	BB	.001	
3	6.83	8128	BB	.002	
4	7.04	4538	BB	.001	
5	8.18	444068	BB	.019	ALDRIN
6	8.71	282773	BB	.020	BETA-BHC
7	9.57	413033	BB	.021	DELTA-BHC
8	10.43	471639	BB	.020	H. EPOXIDE
9	11.63	455743	BB	.019	G. CHLORDANE
10	11.86	463340	BB	.019	A. CHLORDANE
11	12.32	786981	BB	.038	4,4'-DDE
12	15.52	716727	BB	.038	ENDOSULF. II
13	16.67	9889	BB	.002	
14	17.17	366595	BB	.034	ENDRIN ALDEH
15	18.02	13388	BB	.003	
16	18.49	578532	BB	.037	ENDO. SULFAT
17	20.17	569099	BB	.040	ENDRIN KETONE
18	21.30	4183	BB	.001	
19	24.01	688926	BB	.036	DCB

Total Area: 6687477

Method File: /DATA/METHOD/QR20P20SEP.MTH
Format File: /DATA/FORMAT/DUAL_COL.FMT
Report Time: 1318 08Oct1999



Ceimic Corporation Pest/PCB Report

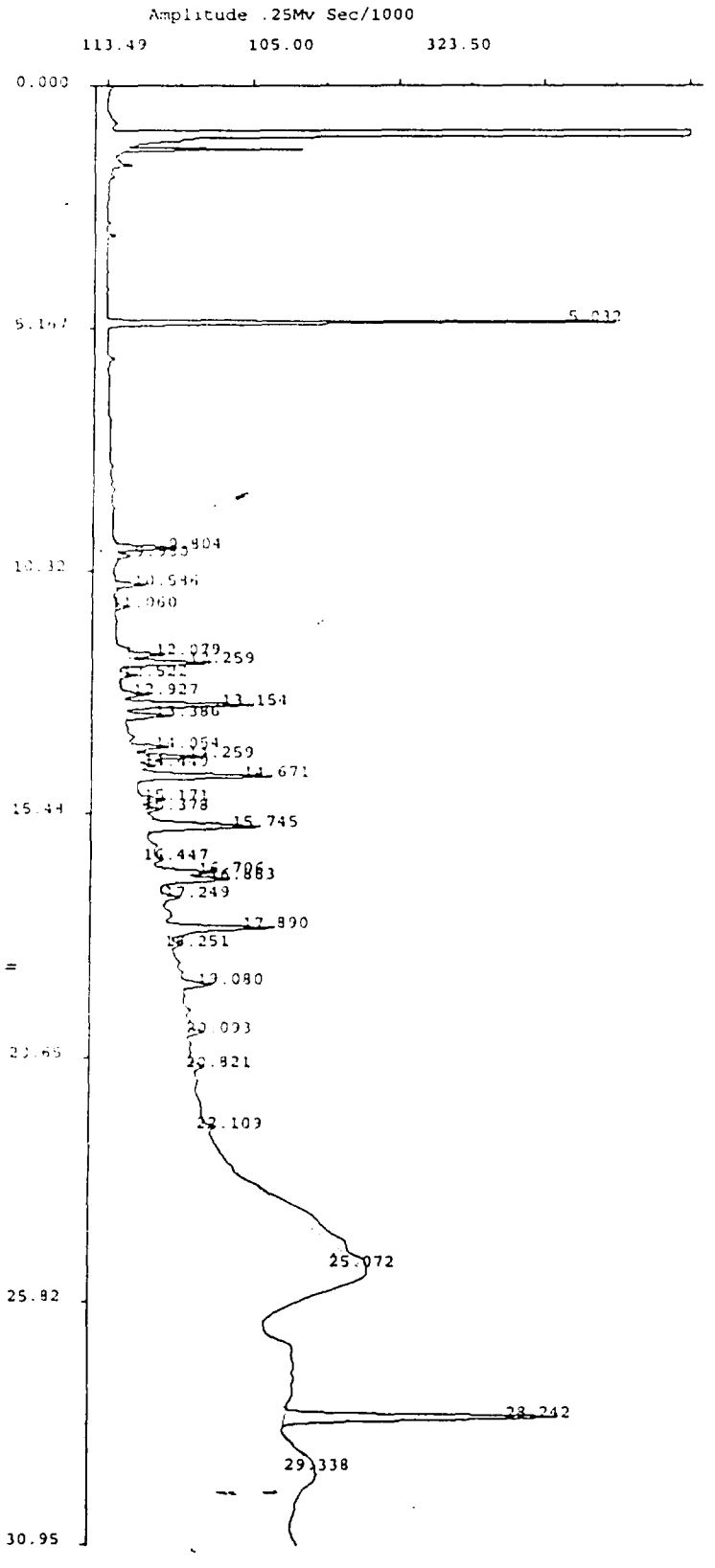
Sample Name : INDBM1E
Lab Id : INDBM1E
Inst Id & Col : AD20_1, DB1701, 0.53 mm
Volume Injected: 1.0 uL Multilevel : False
Peak Processor : Genie Application : Loop
Calculation : ExternalSTD Quantitation: AreaUnits
Result File : /DATA/RESULT/R20P05OCT090.RES
Inject Time : 1641 07Oct1999
Run Status : RunStatusOK

100849/5

Pk #	RT	Area	Code	MASSNG	Name	mg/kg
1	2.72	5860	BB	.001		
2	3.54	406274	BB	.018	TCX	.020
3	4.40	5440	BB	.001		
4	7.04	4594	BB	.001		
5	8.17	453387	BB	.020	ALDRIN	
6	8.71	286055	BB	.021	BETA-BHC	
7	9.57	409987	BB	.021	DELTA-BHC	
8	10.43	488603	BB	.020	H. EPOXIDE	
9	11.63	470543	BB	.020	G. CHLORDANE	
10	11.86	479597	BB	.020	A. CHLORDANE	
11	12.32	814685	BB	.040	4,4'-DDE	.040
12	15.22	5374	BB	.001		
13	15.52	739284	BB	.039	ENDOSULF. II	
14	17.17	356874	BB	.033	ENDRIN ALDEH	
15	18.02	13052	BB	.003		
16	18.49	589060	BB	.037	ENDO. SULFAT	
17	20.17	572184	BB	.040	ENDRIN KETONE	
18	21.30	5221	BB	.001		
19	24.01	703188	BB	.037	DCB	
20	29.84	11087	BB	.002		

Total Area: 6820351

Method File: /DATA/METHOD/QR20P20SEP.MTH
Format File: /DATA/FORMAT/DUAL_COL.FMT
Report Time: 1338 08Oct1999



Ceimic Corporation Pest/PCB Report

Sample Name : AR12540B
Lab Id : AR12540B
Inst Id & Col : AD19_1, DB5, 0.53mm
Volume Injected: 1.0 uL Multilevel : False
Peak Processor : Genie Application : Loop
Calculation : ExternalSTD Quantitation: AreaUnits
Result File : /DATA/RESULT/R19P05OCT073.RES
Inject Time : 0300 07Oct1999
Run Status : RunStatusOK
EndOffBaseline

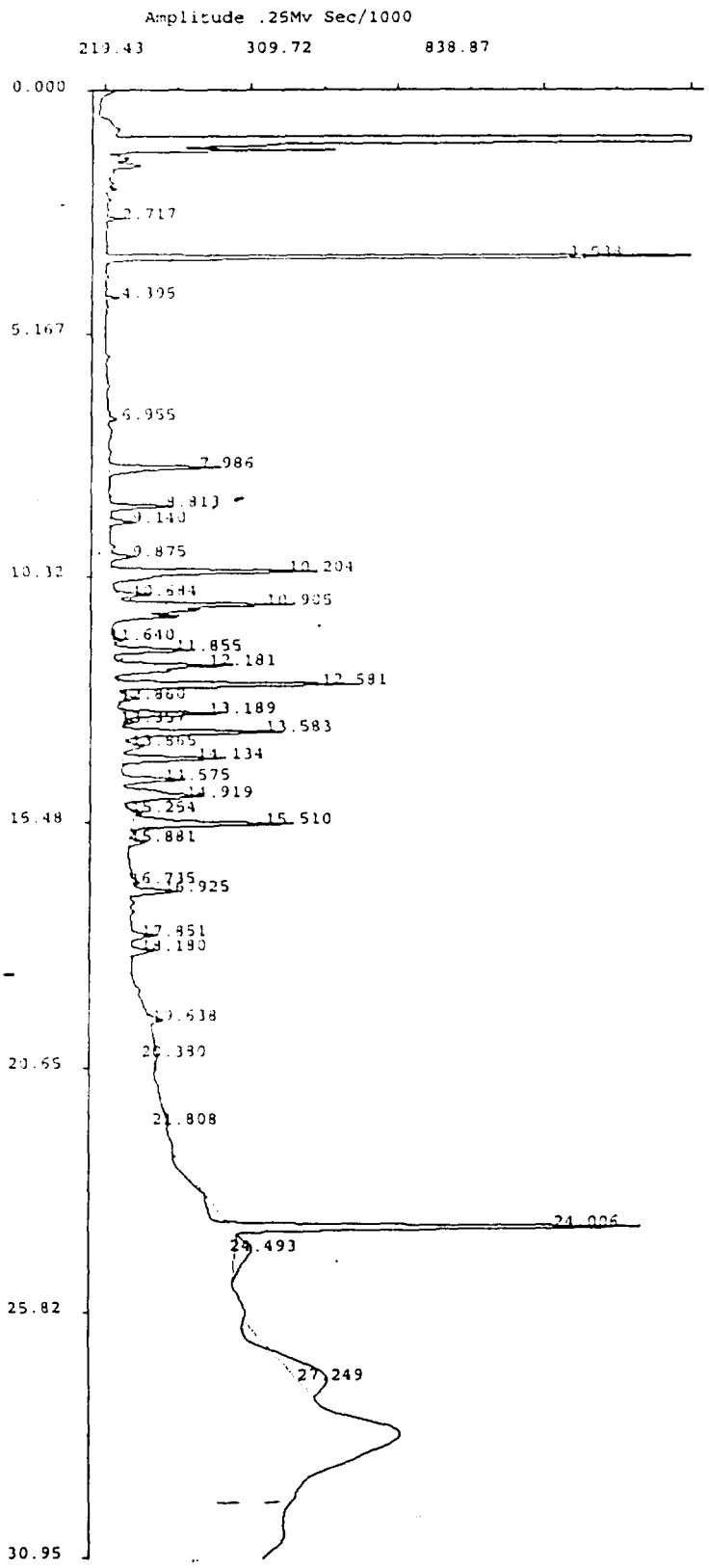
100899/3

Pk #	RT	Area	Code	MASSng	Name
1	5.03	193987	BB	.022	TCX
2	9.80	29331	BB	.107	ARO-1254
3	9.98	5229	BB	.000	
4	10.59	13968	BB	.001	
5	11.06	5598	BB	.000	
6	12.08	16231	BB	.001	
7	12.26	44549	BB	.004	
8	12.52	7349	BB	.001	
9	12.93	12737	BB	.001	
10	13.15	73292	BB	.104	ARO-1254-2
11	13.39	23289	BB	.002	
12	14.05	18176	BB	.002	
13	14.26	34766	BB	.003	
14	14.45	6359	BB	.001	
15	14.67	73861	BB	.106	ARO-1254-3
16	15.17	12246	BB	.001	
17	15.38	7132	BB	.001	
18	15.74	79807	BB	.102	ARO-1254-4
19	16.45	5470	BB	.000	
20	16.71	15774	BB	.001	
21	16.86	26499	BB	.002	
22	17.25	11508	BB	.001	
23	17.89	71856	BB	.100	ARO-1254-5
24	18.25	4802	BB	.000	
25	19.08	18476	BB	.002	
26	20.09	9596	BB	.001	
27	20.82	7226	BB	.001	
28	22.11	4800	BB	.000	
29	25.07	103290	BB	.009	
30	28.24	208372	BB	.020	DCB
31	29.34	5703	BB	.001	

Total Area: 1151328

100899/3

Method File: /DATA/METHOD/AR1254_19.MTH
Format File: /DATA/FORMAT/DUALII.FMT
Report Time: 1430 08Oct1999



Ceimic Corporation Pest/PCB Report

Sample Name : AR12541B
Lab Id : AR12541B
Inst Id & Col : AD20_1, DB1701, 0.53mm
Volume Injected: 1.0 uL Multilevel : False
Peak Processor : Genie Application : Loop
Calculation : ExternalSTD Quantitation: AreaUnits
Result File : /DATA/RESULT/R20P05OCT073.RES
Inject Time : 0300 07Oct1999
Run Status : RunStatusOK

100899/5

Pk #	RT	Area	Code	MASSng	Name
1	2.72	6420	BB	.001	
2	3.54	485951	BB	.024	TCX
3	4.40	6320	BB	.001	
4	6.95	4538	BB	.000	
5	7.99	91598	BB	.008	
6	8.81	45309	BB	.004	
7	9.14	15148	BB	.001	
8	9.88	18038	BB	.002	
9	10.20	189503	BB	.111	ARO-1254
10	10.68	21290	BB	.002	
11	10.90	76341	BB	.007	
12	11.64	6691	BB	.001	
13	11.85	58742	BB	.005	
14	12.18	45619	BB	.004	
15	12.58	181453	BB	.110	ARO-1254-2
16	12.86	15064	BB	.001	
17	13.19	77497	BB	.107	ARO-1254-3
18	13.36	4906	BB	.000	
19	13.58	133458	BB	.107	ARO-1254-4
20	13.87	18005	BB	.002	
21	14.13	77922	BB	.007	
22	14.58	49627	BB	.004	
23	14.92	95806	BB	.008	
24	15.25	8196	BB	.001	
25	15.51	148425	BB	.103	ARO-1254-5
26	15.88	13560	BB	.001	
27	16.74	6333	BB	.001	
28	16.92	38166	BB	.003	
29	17.85	23488	BB	.002	
30	18.18	19670	BB	.002	
31	19.64	13060	BB	.001	
32	20.38	11780	BB	.001	
33	21.81	5685	BB	.001	
34	24.01	290331	BB	.016	DCB
35	24.49	66894	BB	.006	
36	27.25	113852	BB	.010	

100899/5

Total Area: 2484688

Method File: /DATA/METHOD/AR1254_20.MTH
Format File: /DATA/FORMAT/DUALII.FMT
Report Time: 1433 08Oct1999

PESTICIDES/PCBS

d. Raw QC Data

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PBLK01

Lab Name: CEIMIC CORP Contract: ROY WESTON

Lab Code: CEIMIC Case No.: 0291F SAS No.: _____ SDG No.: D00064

Matrix: (soil/water) SOIL Lab Sample ID: P0914-B2

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: _____ decanted: (Y/N) ___ Date Received: _____

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 09/14/99

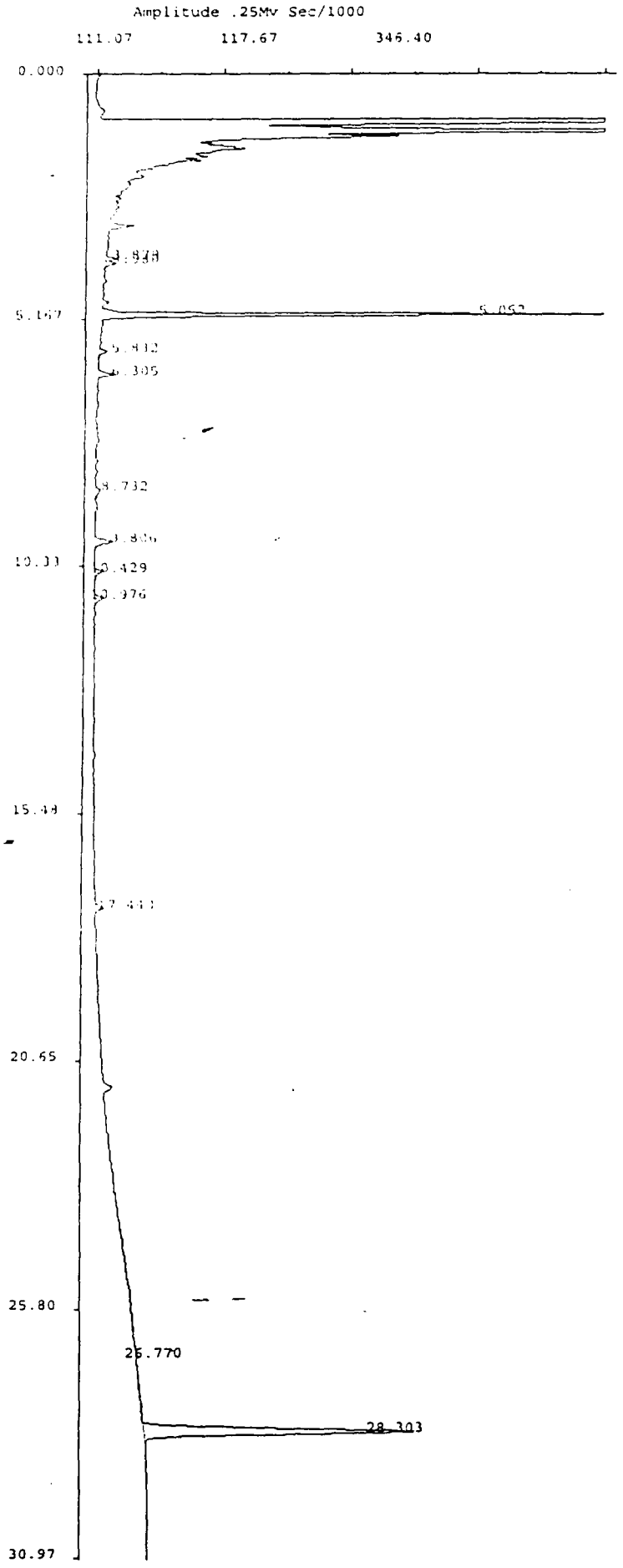
Concentrated Extract Volume: 5000 (uL) Date Analyzed: 09/27/99

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	1.7	U
319-85-7	beta-BHC	1.7	U
319-86-8	delta-BHC	1.7	U
58-89-9	gamma-BHC (Lindane)	1.7	U
76-44-8	Heptachlor	1.7	U
309-00-2	Aldrin	1.7	U
1024-57-3	Heptachlor epoxide	1.7	U
959-98-8	Endosulfan I	1.7	U
60-57-1	Dieldrin	3.3	U
72-55-9	4,4'-DDE	3.3	U
72-20-8	Endrin	3.3	U
33213-65-9	Endosulfan II	3.3	U
72-54-8	4,4'-DDD	3.3	U
1031-07-8	Endosulfan sulfate	3.3	U
50-29-3	4,4'-DDT	3.3	U
72-43-5	Methoxychlor	17	U
53494-70-5	Endrin ketone	3.3	U
7421-93-4	Endrin aldehyde	3.3	U
5103-71-9	alpha-Chlordane	1.7	U
5103-74-2	gamma-Chlordane	1.7	U
8001-35-2	Toxaphene	170	U
12674-11-2	Aroclor-1016	33	U
11104-28-2	Aroclor-1221	67	U
11141-16-5	Aroclor-1232	33	U
53469-21-9	Aroclor-1242	33	U
12672-29-6	Aroclor-1248	33	U
11097-69-1	Aroclor-1254	33	U
11096-82-5	Aroclor-1260	33	U

1409



Ceimic Corporation Pest/PCB Report

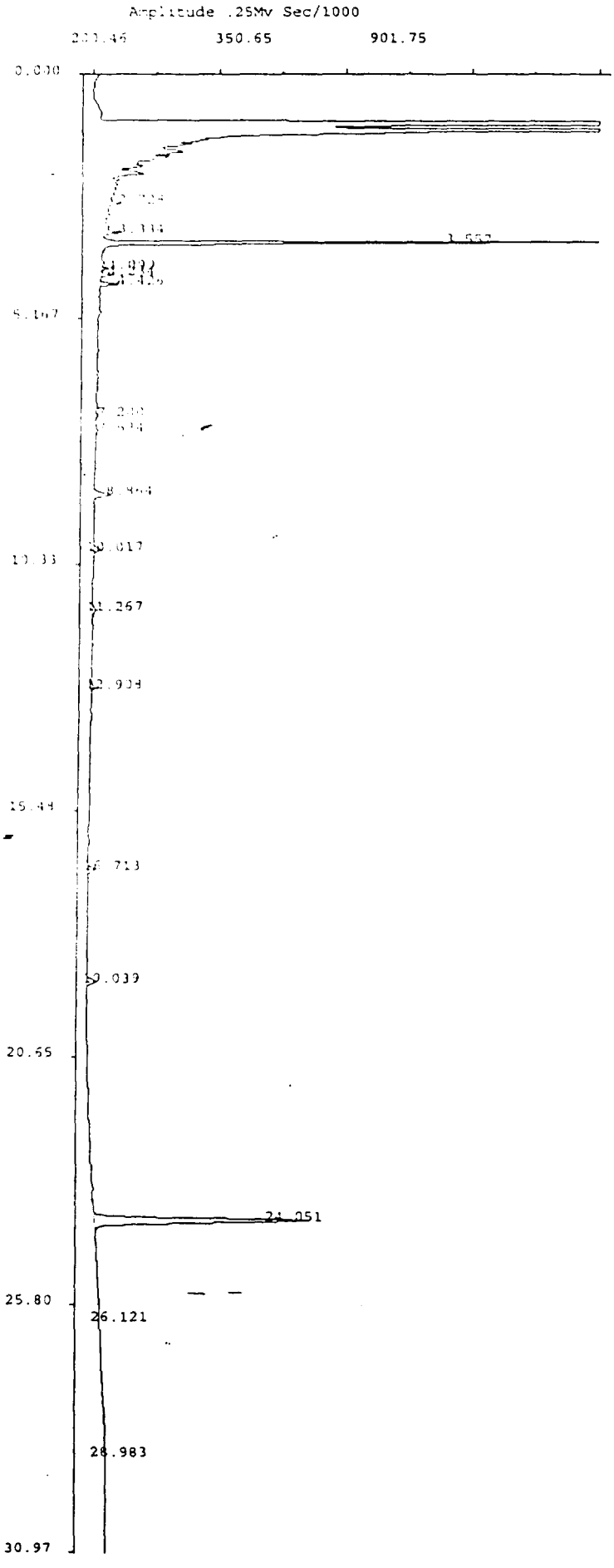
Sample Name : PBLK01
Lab Id : P0914-B2
Inst Id & Col : AD19_1, DB5, 0.53mm
Volume Injected: 1.0 uL Multilevel : False
Peak Processor : Genie Application : Loop
Calculation : ExternalSTD Quantitation: AreaUnits
Result File : /DATA/RESULT/R19P27SEP009.RES
Inject Time : 1514 27Sep1999
Run Status : RunStatusOK
EndOffBaseline

1GC599/5

Pk #	RT	Area	Code	MASSNG	Name
1	3.88	4086	VV	.001	
2	3.98	5755	VB	.001	
3	5.05	216591	BB	.024	TCX
4	5.83	4636	BB	.001	
5	6.31	8951	BB	.002	
6	8.73	4146	BB	.001	
7	9.81	13864	BB	.003	
8	10.43	5919	BB	.001	
9	10.98	7078	BB	.002	
10	17.44	4196	BB	.001	
11	26.77	22318	BB	.005	
12	28.30	262648	BB	.023	DCB

Total Area: 560187

Method File: /DATA/METHOD/QR19P20SEP.MTH
Format File: /DATA/FORMAT/DUAL_COL.FMT
Report Time: 1158 08Oct1999



Ceimic Corporation Pest/PCB Report

Sample Name : PBLK01
Lab Id : P0914-B2
Inst Id & Col : AD20_1, DB1701, 0.53 mm
Volume Injected: 1.0 uL Multilevel : False
Peak Processor : Genie Application : Loop
Calculation : ExternalSTD Quantitation: AreaUnits
Result File : /DATA/RESULT/R20P27SEP009.RES
Inject Time : 1514 27Sep1999
Run Status : RunStatusOK
EndOffBaseline

100599/5

Pk #	RT	Area	Code	MASSNG	Name
1	2.73	14500	BB	.003	
2	3.33	15020	BB	.003	
3	3.55	522241	BB	.024	TCX
4	4.10	6397	BB	.001	
5	4.23	11715	BB	.003	
6	4.43	23990	BB	.005	
7	7.20	4900	BB	.001	
8	7.53	5253	BB	.001	
9	8.86	32341	BB	.007	
10	10.02	10212	BB	.002	
11	11.27	7712	BB	.002	
12	12.91	8638	BB	.000	DIELDRIN
13	16.71	13996	BB	.003	
14	19.04	24154	BB	.005	
15	24.05	488879	BB	.026	DCB
16	26.12	5874	BB	.001	
17	28.98	10143	BB	.002	

100599/5

Total Area: 1205963

Method File: /DATA/METHOD/QR20P20SEP.MTH
Format File: /DATA/FORMAT/DUAL_COL.FMT
Report Time: 1202 08Oct1999

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PBLK02

Lab Name: CEIMIC CORP Contract: ROY WESTON

Lab Code: CEIMIC Case No.: 0291F SAS No.: _____ SDG No.: D00064

Matrix: (soil/water) WATER Lab Sample ID: P0914-B8

Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N) ___ Date Received: _____

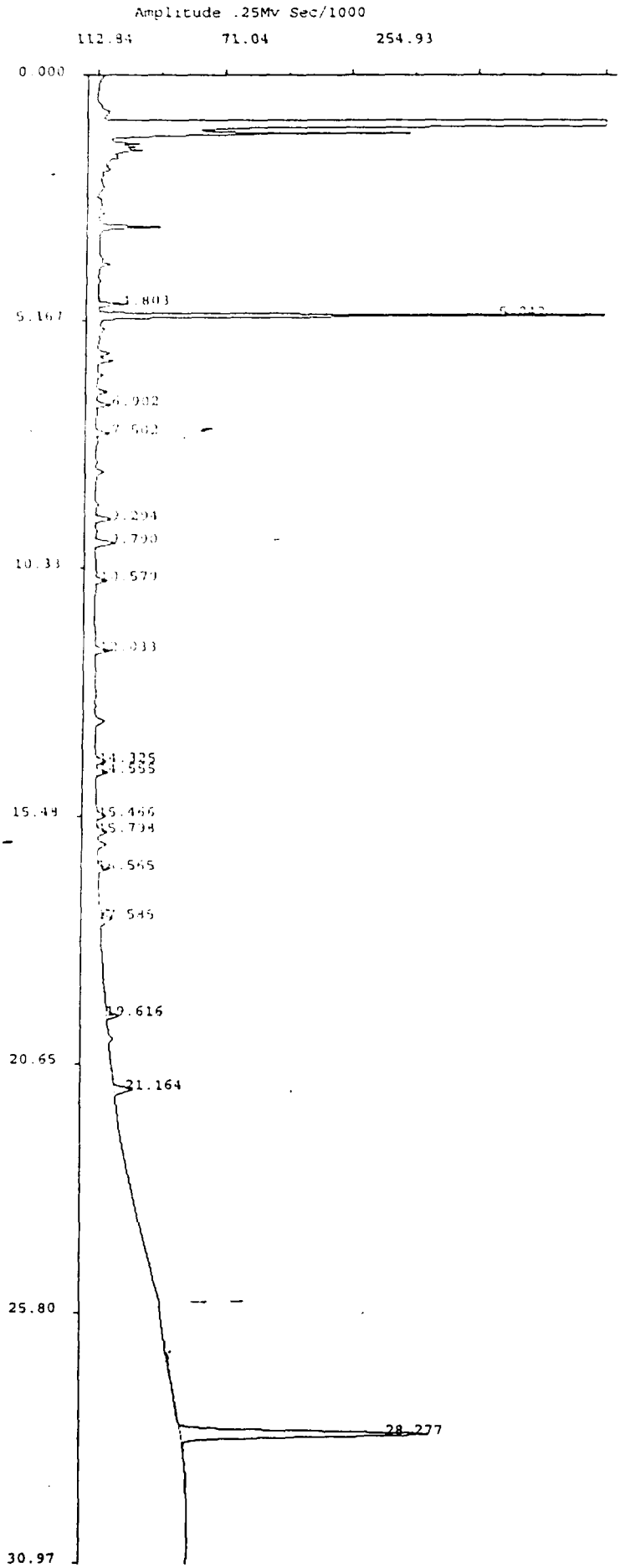
Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 09/14/99

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 09/27/99

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U



Ceimic Corporation Pest/PCB Report

Sample Name : PBLK02
Lab Id : P0914-B8
Inst Id & Col : AD19_1, DB5, 0.53mm
Volume Injected: 1.0 uL Multilevel : False
Peak Processor : Genie Application : Loop
Calculation : ExternalSTD Quantitation: AreaUnits
Result File : /DATA/RESULT/R19P27SEP017.RES
Inject Time : 1956 27Sep1999
Run Status : RunStatusOK
EndOffBaseline

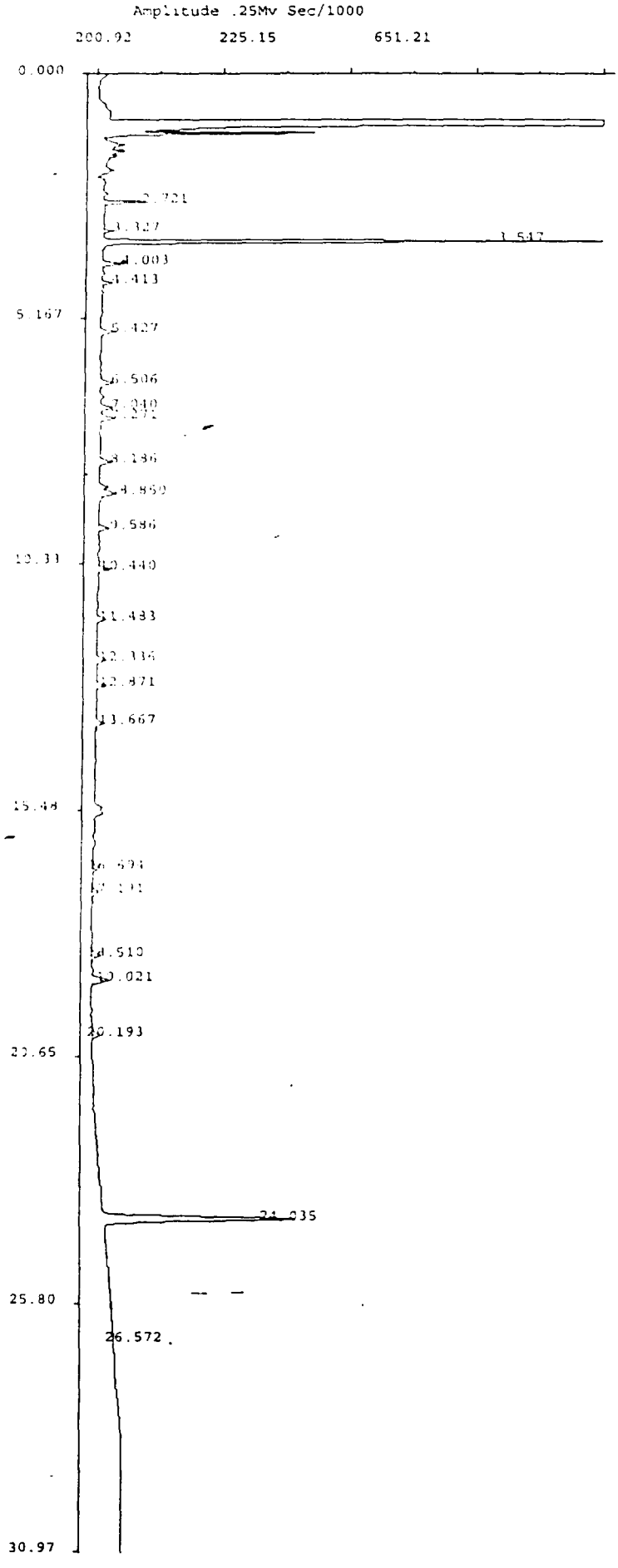
100899B

Pk #	RT	Area	Code	MASSNG	Name
1	4.80	7734	BB	.002	
2	5.04	136962	BB	.015	TCX
3	6.90	4605	BB	.000	GAMMA-BHC
4	7.50	5101	BB	.001	DELTA-BHC
5	9.29	5609	BB	.000	HEPTACHLOR
6	9.79	8466	BB	.002	
7	10.58	4246	BB	.000	ALDRIN
8	12.03	5998	BB	.001	H. EPOXIDE
9	14.32	4069	BB	.000	4,4'-DDE
10	14.55	4878	BB	.001	DIELDRIN
11	15.47	4230	BB	.001	ENDRIN
12	15.80	4483	BB	.000	ENDOSULF. II
13	16.56	4887	BB	.001	ENDRIN ALDEH
14	17.59	5484	BB	.001	ENDO. SULFAT
15	19.62	4849	BB	.001	ENDRIN KETONE
16	21.16	8975	BB	.002	
17	28.28	151109	BB	.013	DCB

100899B

Total Area: 371686

Method File: /DATA/METHOD/QR19P20SEP.MTH
Format File: /DATA/FORMAT/DUAL_COL.FMT
Report Time: 1207 08Oct1999



Ceimic Corporation Pest/PCB Report

Sample Name : PBLK02
Lab Id : P0914-B8
Inst Id & Col : AD20_1, DB1701, 0.53 mm
Volume Injected: 1.0 uL Multilevel : False
Peak Processor : Genie Application : Loop
Calculation : ExternalSTD Quantitation: AreaUnits
Result File : /DATA/RESULT/R20P27SEP017.RES
Inject Time : 1956 27Sep1999
Run Status : RunStatusOK

100899/5

Pk #	RT	Area	Code	MASSNG	Name
1	2.72	31974	BB	.007	
2	3.33	7595	BB	.002	
3	3.55	345992	BB	.016	TCX
4	4.00	20993	BB	.005	
5	4.41	7468	BB	.002	
6	5.43	13784	BB	.001	ALPHA-BHC
7	6.51	15509	BB	.001	GAMMA-BHC
8	7.04	11842	BB	.003	
9	7.27	14372	BB	.001	HEPTACHLOR
10	8.19	13298	BB	.001	ALDRIN
11	8.85	17714	BB	.004	
12	9.59	11029	BB	.001	DELTA-BHC
13	10.44	12952	BB	.001	H. EPOXIDE.
14	11.48	9203	BB	.000	ENDOSULF. I
15	12.34	11247	BB	.001	4,4'-DDE
16	12.87	12300	BB	.001	DIELDRIN
17	13.67	10822	BB	.001	ENDRIN
18	16.69	7874	BB	.002	
19	17.19	11490	BB	.001	ENDRIN ALDEH
20	18.51	11971	BB	.001	ENDO. SULFAT
21	19.02	24991	BB	.005	
22	20.19	9118	BB	.001	ENDRIN KETONE
23	24.04	274779	BB	.014	DCB
24	26.57	6047	BB	.001	

Total Area: 914365

Method File: /DATA/METHOD/QR20P20SEP.MTH
Format File: /DATA/FORMAT/DUAL_COL.FMT
Report Time: 1213 08Oct1999

100899/5

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PBLK03

Lab Name: CEIMIC CORP Contract: ROY WESTON

Lab Code: CEIMIC Case No.: 0291F SAS No.: _____ SDG No.: D00064

Matrix: (soil/water) SOIL Lab Sample ID: P0915-37

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: _____ decanted: (Y/N) ___ Date Received: _____

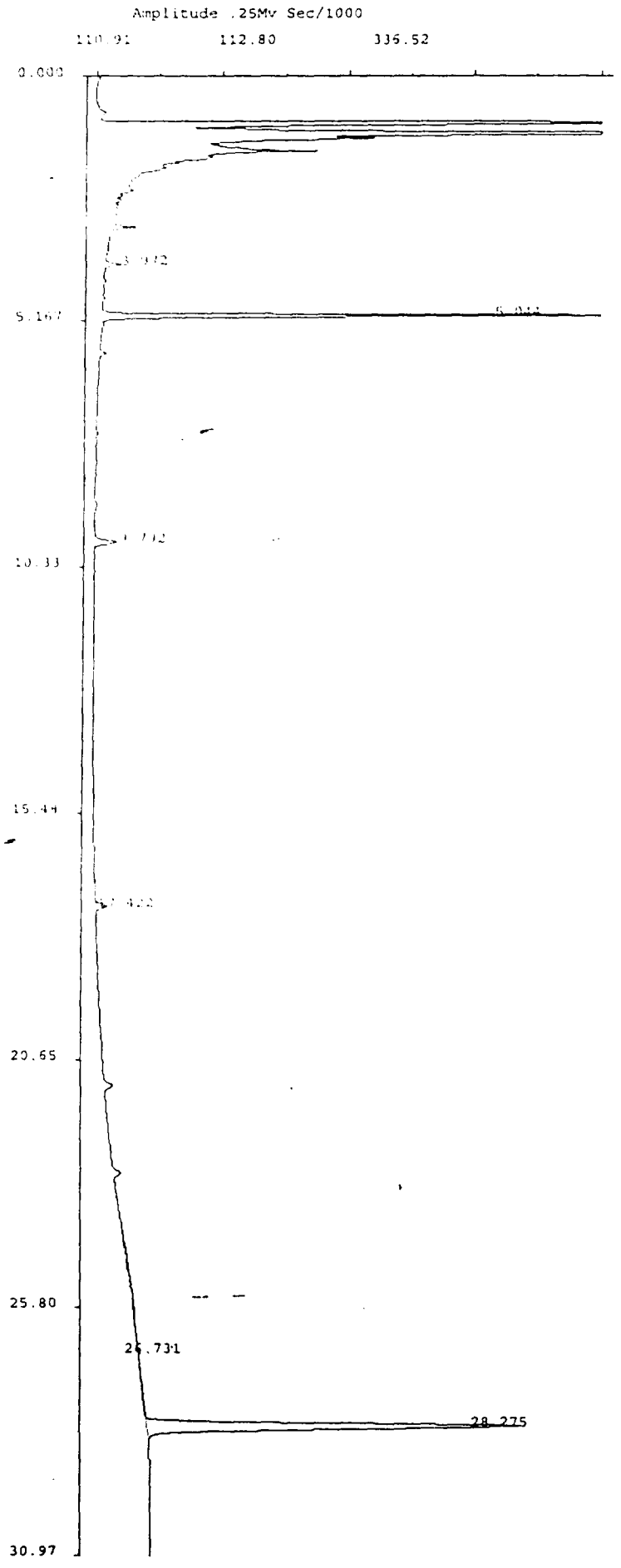
Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 09/15/99

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 09/27/99

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	1.7	U
319-85-7	beta-BHC	1.7	U
319-86-8	delta-BHC	1.7	U
58-89-9	gamma-BHC (Lindane)	1.7	U
76-44-8	Heptachlor	1.7	U
309-00-2	Aldrin	1.7	U
1024-57-3	Heptachlor epoxide	1.7	U
959-98-8	Endosulfan I	1.7	U
60-57-1	Dieldrin	3.3	U
72-55-9	4,4'-DDE	3.3	U
72-20-8	Endrin	3.3	U
33213-65-9	Endosulfan II	3.3	U
72-54-8	4,4'-DDD	3.3	U
1031-07-8	Endosulfan sulfate	3.3	U
50-29-3	4,4'-DDT	3.3	U
72-43-5	Methoxychlor	17	U
53494-70-5	Endrin ketone	3.3	U
7421-93-4	Endrin aldehyde	3.3	U
5103-71-9	alpha-Chlordane	1.7	U
5103-74-2	gamma-Chlordane	1.7	U
8001-35-2	Toxaphene	170	U
12674-11-2	Aroclor-1016	33	U
11104-28-2	Aroclor-1221	67	U
11141-16-5	Aroclor-1232	33	U
53469-21-9	Aroclor-1242	33	U
12672-29-6	Aroclor-1248	33	U
11097-69-1	Aroclor-1254	33	U
11096-82-5	Aroclor-1260	33	U



Ceimic Corporation Pest/PCB Report

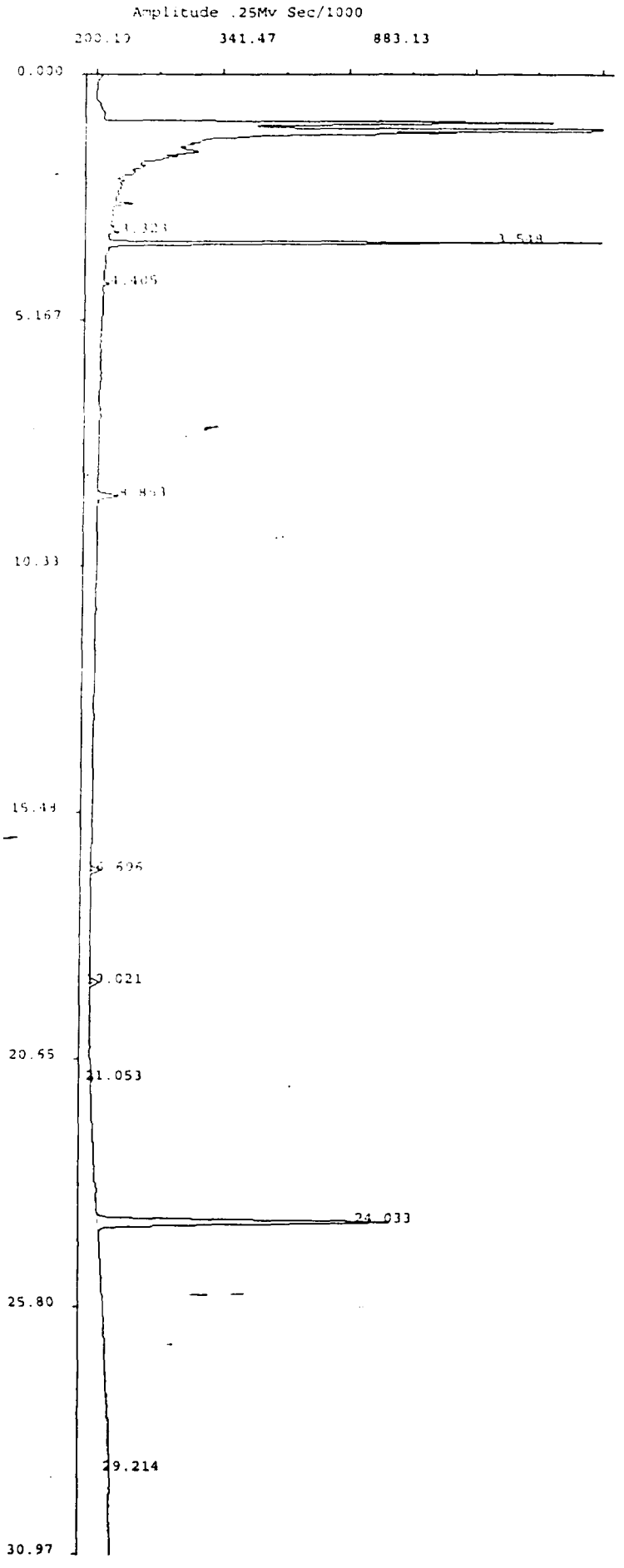
Sample Name : PBLK03
Lab Id : P0915-B7
Inst Id & Col : AD19_1, DB5, 0.53mm
Volume Injected: 1.0 uL Multilevel : False
Peak Processor : Genie Application : Loop
Calculation : ExternalSTD Quantitation: AreaUnits
Result File : /DATA/RESULT/R19P27SEP011.RES
Inject Time : 1625 27Sep1999
Run Status : RunStatusOK

100899/3

Pk #	RT	Area	Code	MASSNG	Name
1	3.97	7183	VB	.002	
2	5.04	212475	BB	.023	TCX
3	9.79	16353	BB	.004	
4	17.42	7270	BB	.002	
5	26.73	25000	BB	.005	
6	28.28	358544	BB	.032	DCB

Total Area: 626825

Method File: /DATA/METHOD/QR19P20SEP.MTH
Format File: /DATA/FORMAT/DUAL_COL.FMT
Report Time: 1202 08Oct1999



Ceimic Corporation Pest/PCB Report

Sample Name : PBLK03
Lab Id : P0915-B7
Inst Id & Col : AD20_1, DB1701, 0.53 mm
Volume Injected: 1.0 uL Multilevel : False
Peak Processor : Genie Application : Loop
Calculation : ExternalSTD Quantitation: AreaUnits
Result File : /DATA/RESULT/R20P27SEP011.RES
Inject Time : 1625 27Sep1999
Run Status : RunStatusOK
EndOffBaseline

10899/3

Pk #	RT	Area	Code	MASSNG	Name
1	3.32	10836	BB	.002	
2	3.55	511010	BB	.023	TCX
3	4.40	7746	BB	.002	
4	8.85	41091	BB	.009	
5	16.70	20517	BB	.005	
6	19.02	21297	BB	.005	
7	21.05	4332	BB	.001	
8	24.03	660202	BB	.035	DCB
9	29.21	29385	BB	.006	

Total Area: 1306416

Method File: /DATA/METHOD/QR20P20SEP.MTH
Format File: /DATA/FORMAT/DUAL_COL.FMT
Report Time: 1207 08Oct1999

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PBLK04

Lab Name: CEIMIC CORP Contract: ROY WESTON

Lab Code: CEIMIC Case No.: 0291F SAS No.: _____ SDG No.: D00064

Matrix: (soil/water) WATER Lab Sample ID: P0915-B9

Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N) ___ Date Received: _____

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 09/15/99

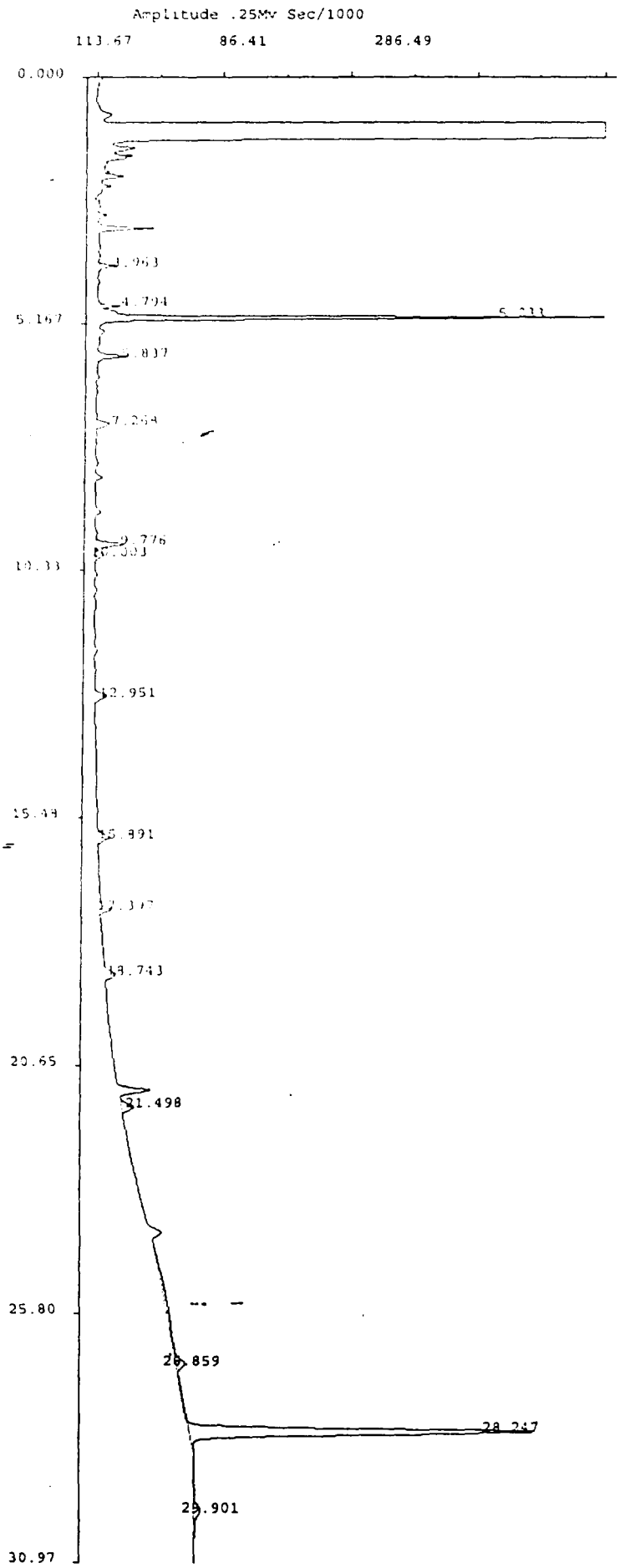
Concentrated Extract Volume: 10000 (uL) Date Analyzed: 09/21/99

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND		Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U



Ceimic Corporation Pest/PCB Report

Sample Name : PBLK04
Lab Id : P0915-B9
Inst Id & Col : AD19_1, DB5, 0.53mm
Volume Injected: 1.0 uL Multilevel : False
Peak Processor : Genie Application : Loop
Calculation : ExternalSTD Quantitation: AreaUnits
Result File : /CEIMIC21/R19P20SEP023.RES
Inject Time : 0458 21Sep1999
Run Status : RunStatusOK

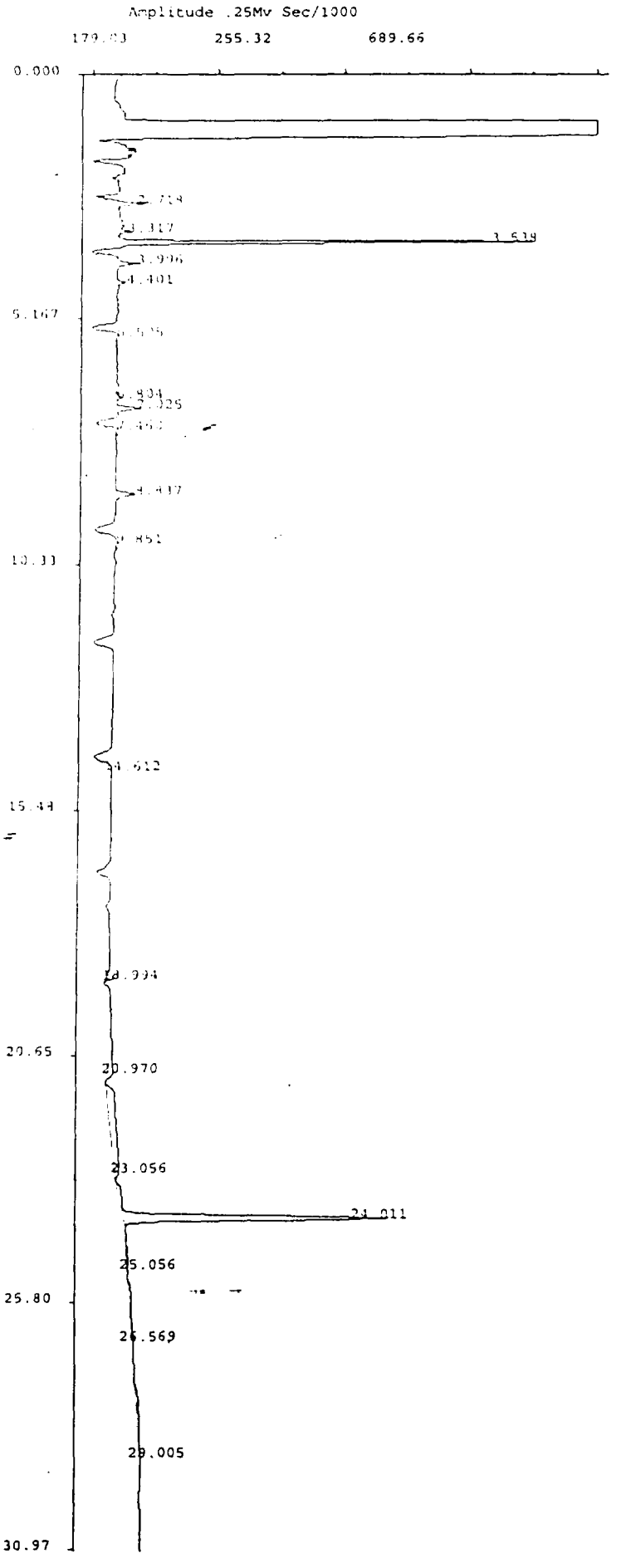
100899/3

Pk #	RT	Area	Code	MASSNG	Name
1	3.96	6501	PB	.001	
2	4.79	5710	BB	.001	
3	5.03	166576	BB	.018	TCX
4	5.84	12554	BB	.003	
5	7.27	7792	BB	.002	
6	9.78	13700	BB	.003	
7	10.00	4732	BB	.001	
8	12.95	8966	BB	.001	G. CHLORDANE
9	15.89	8939	BB	.002	
10	17.40	12371	BB	.003	
11	18.74	14386	BB	.003	
12	21.50	9998	BB	.002	
13	26.86	30809	BB	.007	
14	28.25	255993	BB	.023	DCB
15	29.90	9343	BB	.002	

100899/3

Total Area: 568367

Method File: /DATA/METHOD/QR19P20SEP.MTH
Format File: /DATA/FORMAT/DUAL_COL.FMT
Report Time: 1139 08Oct1999



Ceimic Corporation Pest/PCB Report

Sample Name : PBLK04
Lab Id : P0915-B9
Inst Id & Col : AD20_1, DB1701, 0.53 mm
Volume Injected: 1.0 uL Multilevel : False
Peak Processor : Genie Application : Loop
Calculation : ExternalSTD Quantitation: AreaUnits
Result File : /CEIMIC21/R20P20SEP023.RES
Inject Time : 0458 21Sep1999
Run Status : RunStatusOK
EndOffBaseline

168897/5

Pk #	RT	Area	Code	MASSNG	Name
1	2.72	44768	BB	.010	
2	3.32	9266	BB	.002	
3	3.54	431393	BB	.029	TCX
4	4.00	79718	BB	.018	
5	4.40	7808	BB	.002	
6	5.50	24802	BB	.005	
7	6.80	5454	BB	.001	
8	7.03	26062	BB	.006	
9	7.46	16875	BB	.004	
10	8.84	29468	BB	.006	
11	9.85	31962	BB	.007	
12	14.61	15223	BB	.003	
13	18.99	11556	BB	.003	
14	20.97	30656	BB	.007	
15	23.06	172019	BB	.038	
16	24.01	474493	BB	.025	DCB
17	25.06	11792	BB	.003	
18	26.57	27539	BB	.006	
19	29.01	37329	BB	.008	

Total Area: 1488183

Method File: /DATA/METHOD/QR20P20SEP.MTH
Format File: /DATA/FORMAT/DUAL_COL.FMT
Report Time: 1140 08Oct1999

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PIBLK0A

Lab Name: CEIMIC CORP Contract: ROY WESTON

Lab Code: CEIMIC Case No.: 0291F SAS No.: _____ SDG No.: D00064

Matrix: (soil/water) WATER Lab Sample ID: PIBLK0A

Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N) ___ Date Received: _____

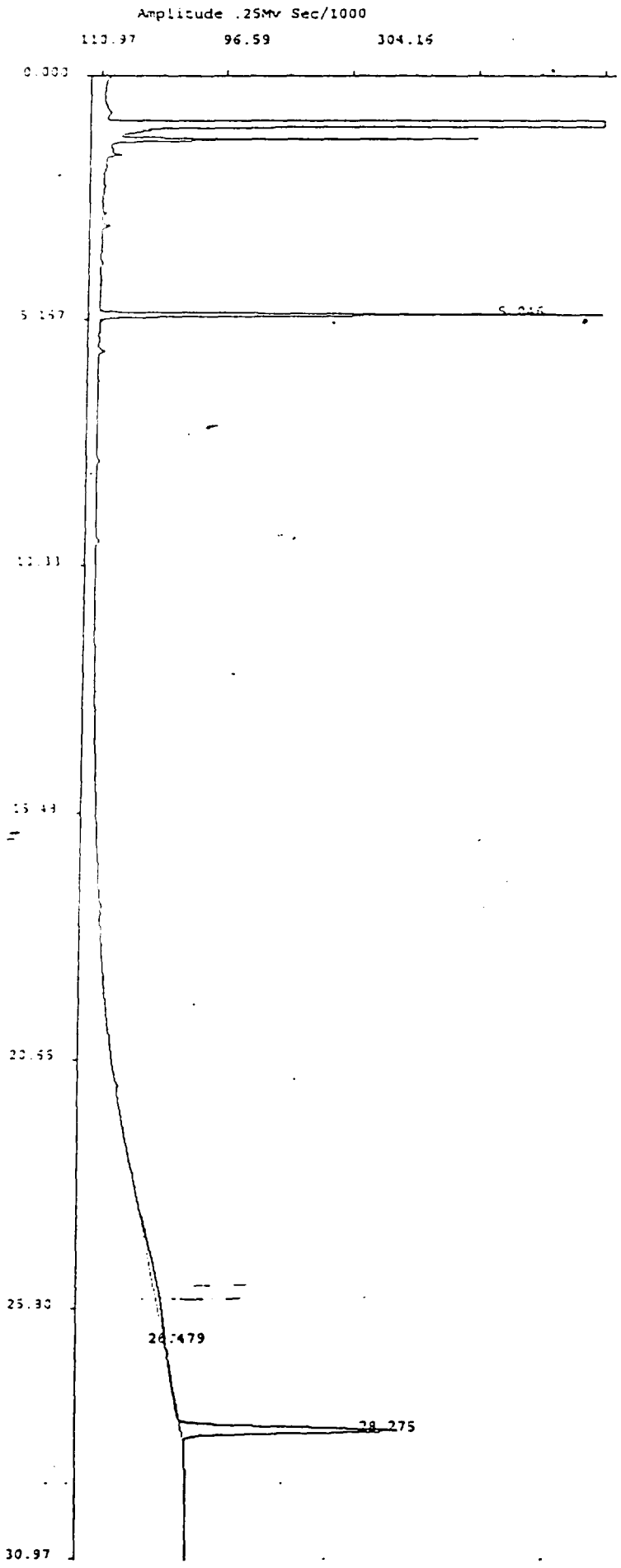
Extraction: (SepF/Cont/Sonc) _____ Date Extracted: _____

Concentrated Extract Volume: _____ (uL) Date Analyzed: 09/21/99

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U



Celmic Corporation Pest/PCB Report

Sample Name : PIBLK0A
Lab Id : PIBLK0A ,I
Inst Id & Col : AD19_1, DB5, 0.53mm
Volume Injected: 1.0 uL Multilevel : False
Peak Processor : Genie Application : Loop
Calculation : ExternalSTD Quantitation: AreaUnits
Result File : /DATA/RESULT/R19P20SEP016.RES
Inject Time : 0052 21Sep1999
Run Status : RunStatusOK

X, 9/27/99

Pk #	RT	Area	Code	MASSNG	Name
1	5.05	181122	BB	.020	TCX
2	26.48	50683	BB	.011	
3	28.27	172365	BB	.015	DCB

Total Area: 404169

Method File: /DATA/METHOD/INDABQ19.MTH
Format File: /DATA/FORMAT/DUAL_COL.FMT
Report Time: 1855 27Sep1999

COPY

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PIBLK0B

Lab Name: CEIMIC CORP Contract: ROY WESTON

Lab Code: CEIMIC Case No.: 0291F SAS No.: _____ SDG No.: D00064

Matrix: (soil/water) WATER Lab Sample ID: PIBLK0B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N) ___ Date Received: _____

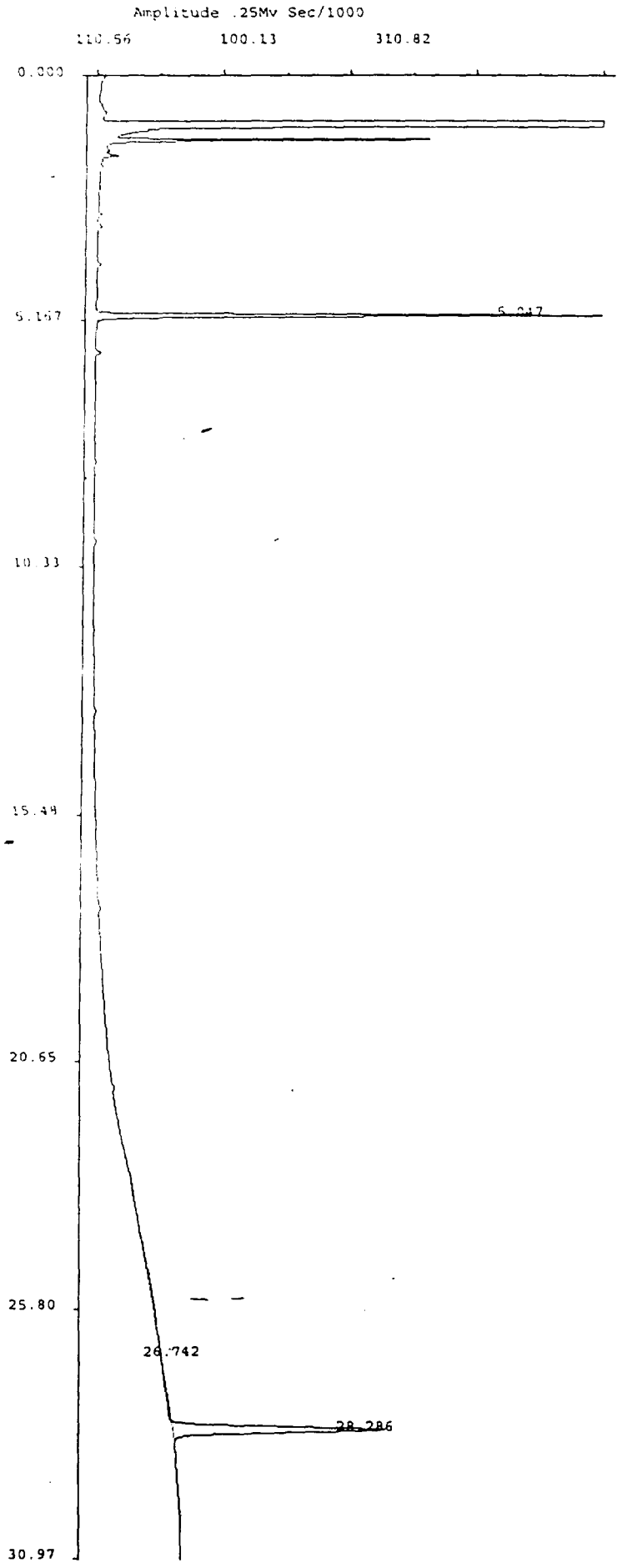
Extraction: (SepF/Cont/Sonc) _____ Date Extracted: _____

Concentrated Extract Volume: _____ (uL) Date Analyzed: 09/21/99

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U



Ceimic Corporation Pest/PCB Report

Sample Name : PIBLK0B
Lab Id : PIBLK0B
Inst Id & Col : AD19_1, DB5, 0.53mm
Volume Injected: 1.0 uL Multilevel : False
Peak Processor : Genie Application : Loop
Calculation : ExternalSTD Quantitation: AreaUnits
Result File : /CEIMIC21/R19P20SEP035.RES
Inject Time : 1200 21Sep1999
Run Status : RunStatusOK

100839/5

Pk #	RT	Area	Code	MASSNG	Name
1	5.05	182792	BB	.020	TCX
2	26.74	17210	BB	.004	
3	28.29	172054	BB	.015	DCB

Total Area: 372057

Method File: /DATA/METHOD/QR19P20SEP.MTH
Format File: /DATA/FORMAT/DUAL_COL.FMT
Report Time: 1144 08Oct1999

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PIBLK0C

Lab Name: CEIMIC CORP Contract: ROY WESTON

Lab Code: CEIMIC Case No.: 0291F SAS No.: _____ SDG No.: D00064

Matrix: (soil/water) WATER Lab Sample ID: PIBLK0C

Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N) ___ Date Received: _____

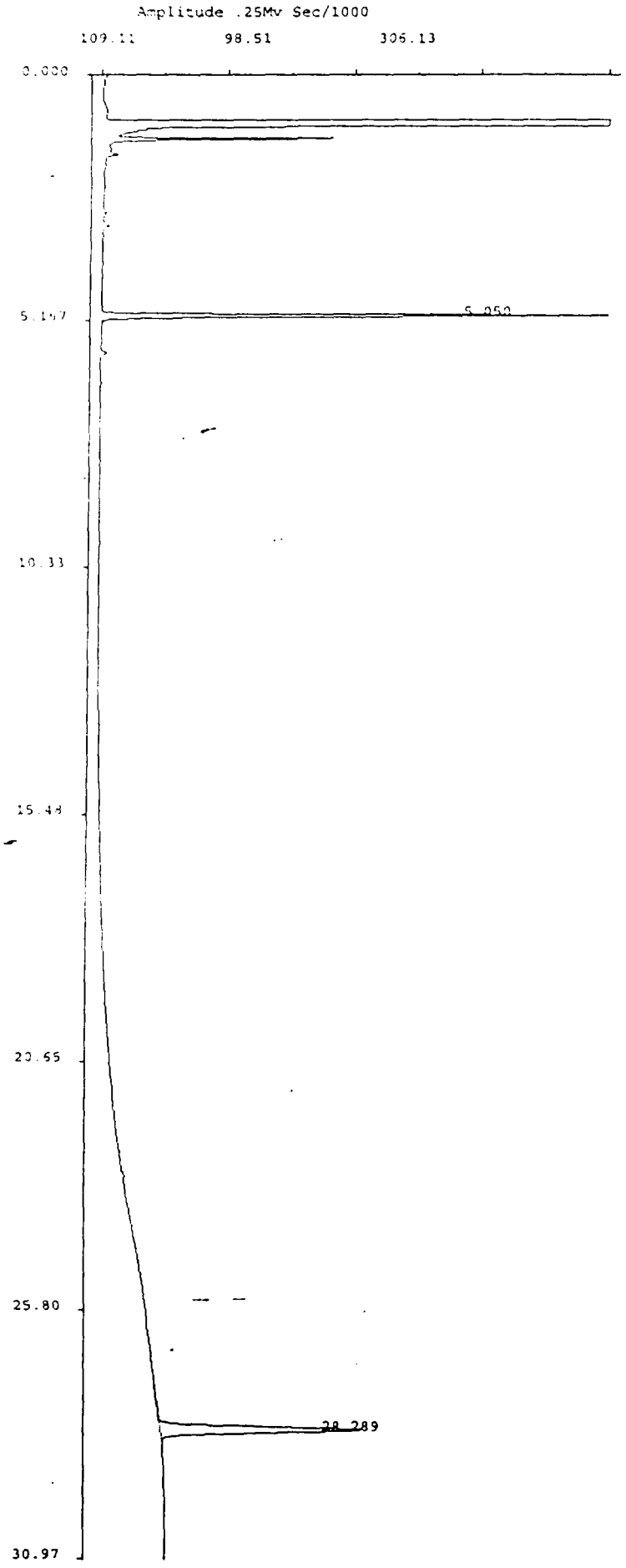
Extraction: (SepF/Cont/Sonc) _____ Date Extracted: _____

Concentrated Extract Volume: _____ (uL) Date Analyzed: 09/27/99

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U



Ceimic Corporation Pest/PCB Report

Sample Name : PIBLK0C
Lab Id : PIBLK0C
Inst Id & Col : AD19_1, DB5, 0.53mm
Volume Injected: 1.0 uL Multilevel : False
Peak Processor : Genie Application : Loop
Calculation : ExternalSTD Quantitation: AreaUnits
Result File : /DATA/RESULT/R19P27SEP007.RES
Inject Time : 1404 27Sep1999
Run Status : RunStatusOK
EndOffBaseline

100897/6

Pk #	RT	Area	Code	MASSNG	Name
1	5.05	179333	BB	.020	TCX
2	28.29	165230	BB	.015	DCB

Total Area: 344563

Method File: /DATA/METHOD/QR19P20SEP.MTH
Format File: /DATA/FORMAT/DUAL_COL.FMT
Report Time: 1152 08Oct1999

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PIBLK0D

Lab Name: CEIMIC CORP Contract: ROY WESTON

Lab Code: CEIMIC Case No.: 0291F SAS No.: _____ SDG No.: D00064

Matrix: (soil/water) WATER Lab Sample ID: PIBLK0D

Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N) ___ Date Received: _____

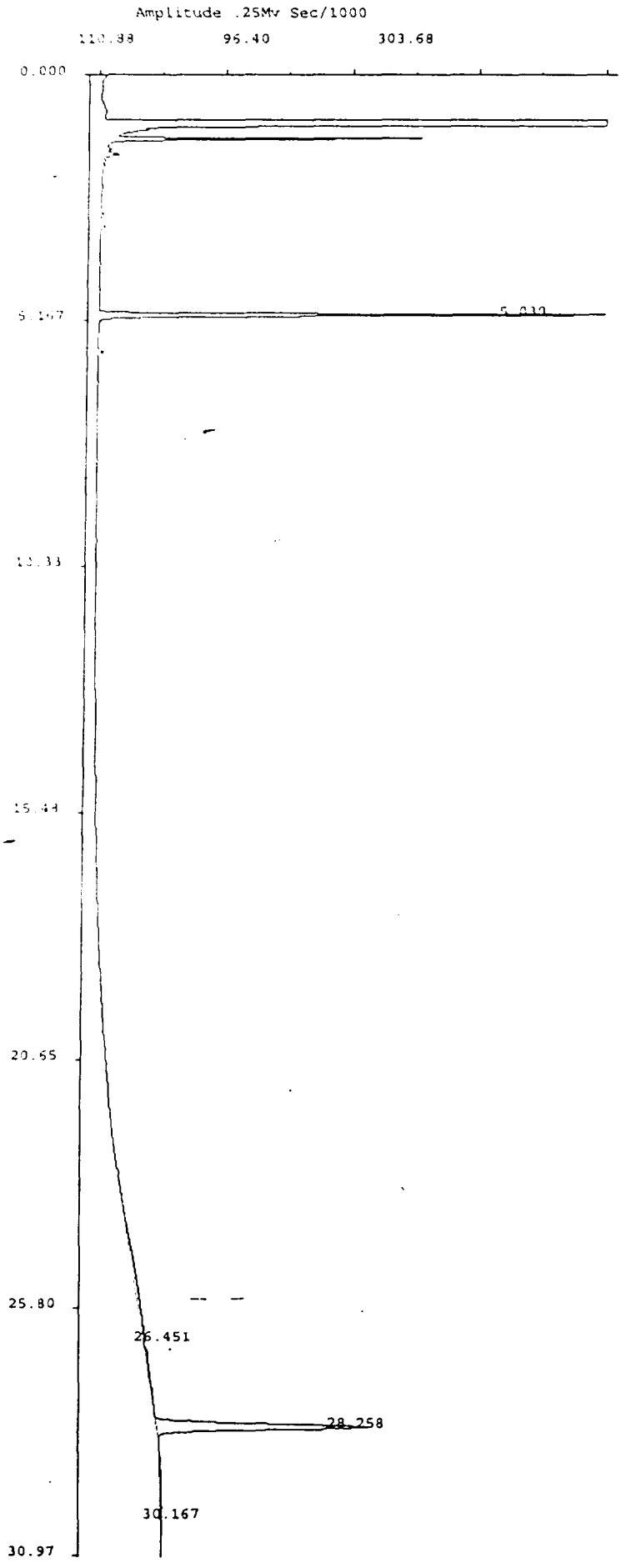
Extraction: (SepF/Cont/Sonc) _____ Date Extracted: _____

Concentrated Extract Volume: _____ (uL) Date Analyzed: 09/28/99

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U



Ceimic Corporation Pest/PCB Report

Sample Name : PIBLK0D
Lab Id : PIBLK0D
Inst Id & Col : AD19_1, DB5, 0.53mm
Volume Injected: 1.0 uL Multilevel : False
Peak Processor : Genie Application : Loop
Calculation : ExternalSTD Quantitation: AreaUnits
Result File : /DATA/RESULT/R19P27SEP025.RES
Inject Time : 0048 28Sep1999
Run Status : RunStatusOK
EndOffBaseline

100899/3

Pk #	RT	Area	Code	MASSNG	Name
1	5.04	182204	BB	.020	TCX
2	26.45	30037	BB	.007	
3	28.26	181714	BB	.016	DCB
4	30.17	12582	BB	.003	

Total Area: 406536

Method File: /DATA/METHOD/QR19P20SEP.MTH
Format File: /DATA/FORMAT/DUAL_COL.FMT
Report Time: 1222 08Oct1999

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PIBLK0E

Lab Name: CEIMIC CORP Contract: ROY WESTON

Lab Code: CEIMIC Case No.: 0291F SAS No.: _____ SDG No.: D00064

Matrix: (soil/water) WATER Lab Sample ID: PIBLK0E

Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N) ___ Date Received: _____

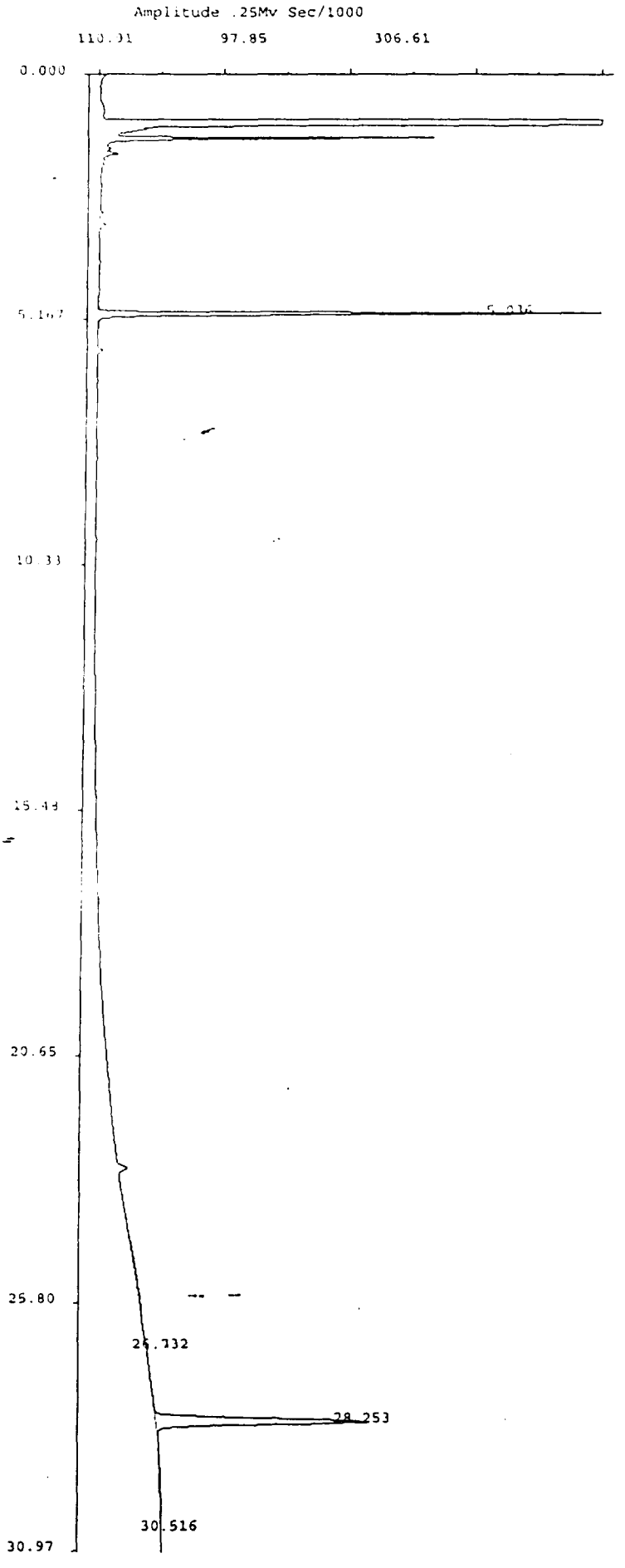
Extraction: (SepF/Cont/Sonc) _____ Date Extracted: _____

Concentrated Extract Volume: _____ (uL) Date Analyzed: 09/28/99

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U



Ceimic Corporation Pest/PCB Report

Sample Name : PIBLK0E
Lab Id : PIBLK0E
Inst Id & Col : AD19_1, DB5, 0.53mm
Volume Injected: 1.0 uL Multilevel : False
Peak Processor : Genie Application : Loop
Calculation : ExternalSTD Quantitation: AreaUnits
Result File : /DATA/RESULT/R19P27SEP042.RES
Inject Time : 1046 28Sep1999
Run Status : RunStatusOK

160899/1

Pk #	RT	Area	Code	MASSNG	Name
1	5.04	183448	BB	.020	TCX
2	26.73	12201	BB	.003	
3	28.25	181060	BB	.016	DCB
4	30.52	7534	BB	.002	

Total Area: 384244

Method File: /DATA/METHOD/QR19P20SEP.MTH
Format File: /DATA/FORMAT/DUAL_COL.FMT
Report Time: 1249 08Oct1999

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PIBLK0F

Lab Name: CEIMIC CORP Contract: ROY WESTON

Lab Code: CEIMIC Case No.: 0291F SAS No.: _____ SDG No.: D00064

Matrix: (soil/water) WATER Lab Sample ID: PIBLK0F

Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N) ___ Date Received: _____

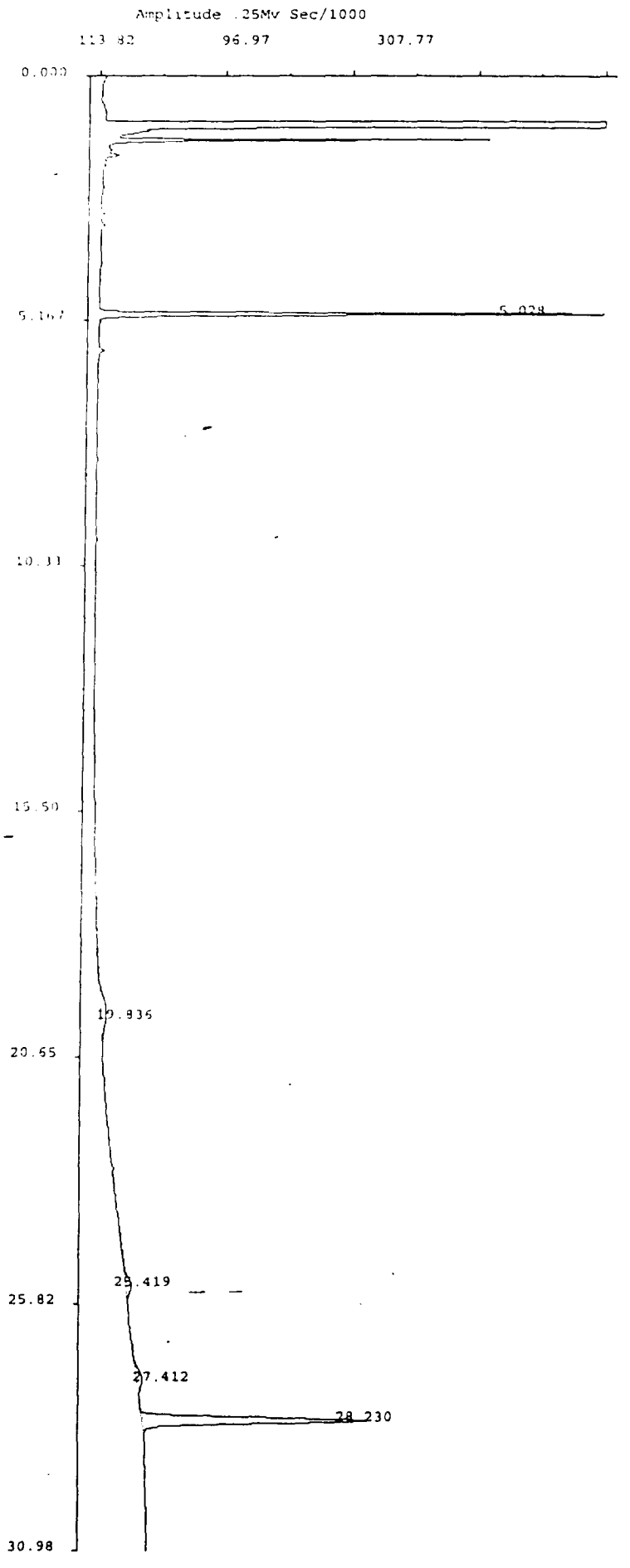
Extraction: (SepF/Cont/Sonc) _____ Date Extracted: _____

Concentrated Extract Volume: _____ (uL) Date Analyzed: 10/06/99

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U



Ceimic Corporation Pest/PCB Report

Sample Name : PIBLK0F
Lab Id : PIBLK0F
Inst Id & Col : AD19_1, DB5, 0.53mm
Volume Injected: 1.0 uL Multilevel : False
Peak Processor : Genie Application : Loop
Calculation : ExternalSTD Quantitation: AreaUnits
Result File : /DATA/RESULT/R19P05OCT040.RES
Inject Time : 0738 06Oct1999
Run Status : RunStatusOK
EndOffBaseline

100891/3

Pk #	RT	Area	Code	MASSNG	Name
1	5.03	183395	BB	.020	TCX
2	19.84	21864	BB	.005	
3	25.42	14881	BB	.003	
4	27.41	13456	BB	.003	
5	28.23	187513	BB	.017	DCB

Total Area: 421109

Method File: /DATA/METHOD/QR19P20SEP.MTH
Format File: /DATA/FORMAT/DUAL_COL.FMT
Report Time: 1254 08Oct1999

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PIBLK0G

Lab Name: CEIMIC CORP Contract: ROY WESTON

Lab Code: CEIMIC Case No.: 0291F SAS No.: _____ SDG No.: D00064

Matrix: (soil/water) WATER Lab Sample ID: PIBLK0G

Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N) ___ Date Received: _____

Extraction: (SepF/Cont/Sonc) _____ Date Extracted: _____

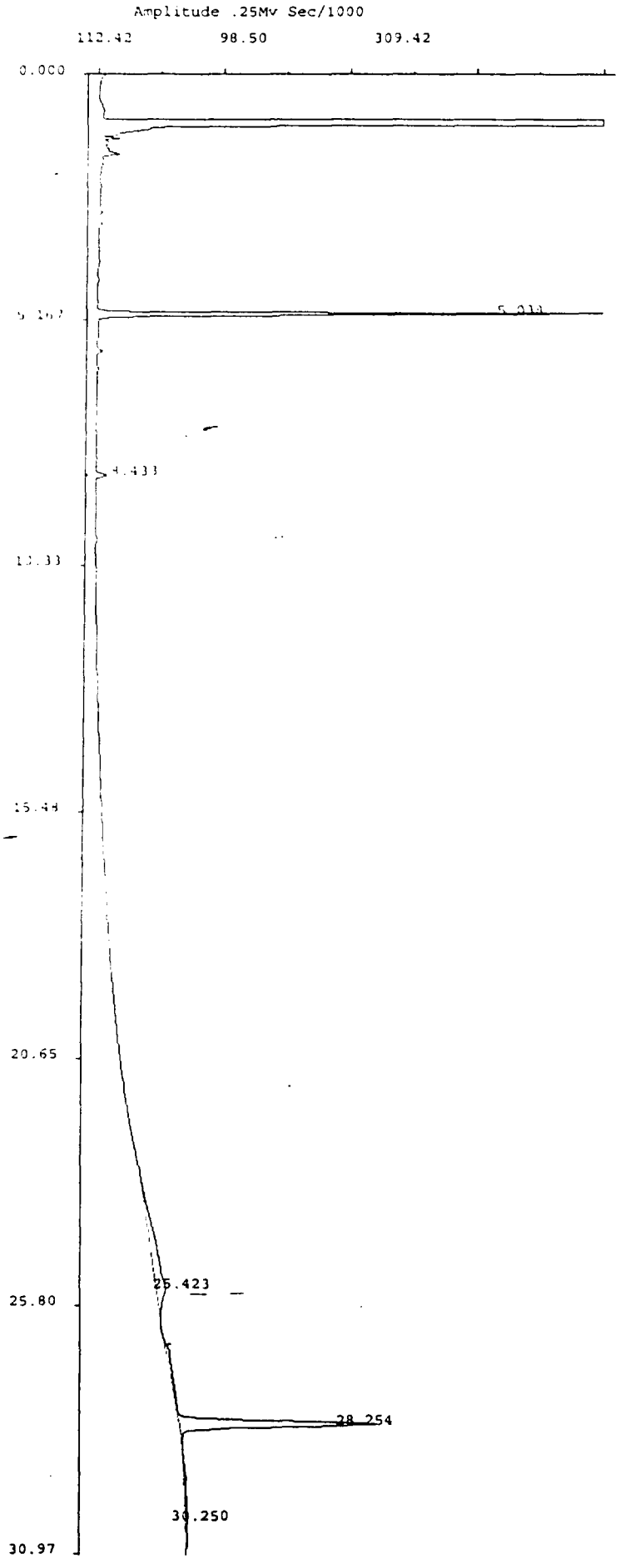
Concentrated Extract Volume: _____ (uL) Date Analyzed: 10/06/99

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND		Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U



Ceimic Corporation Pest/PCB Report

Sample Name : PIBLK0G
Lab Id : PIBLK0G
Inst Id & Col : AD19_1, DB5, 0.53mm
Volume Injected: 1.0 uL
Multilevel : False
Peak Processor : Genie
Application : Loop
Calculation : ExternalSTD
Quantitation: AreaUnits
Result File : /DATA/RESULT/R19P05OCT057.RES
Inject Time : 1737 06Oct1999
Run Status : RunStatusOK

100899/3

Pk #	RT	Area	Code	MASSNG	Name
1	5.04	182200	BB	.020	TCX
2	8.43	5735	BB	.001	
3	25.42	81185	BB	.018	
4	28.25	187953	BB	.017	DCB
5	30.25	14117	BB	.003	

Total Area: 471189

Method File: /DATA/METHOD/QR19P20SEP.MTH
Format File: /DATA/FORMAT/DUAL_COL.FMT
Report Time: 1309 08Oct1999

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PIBLK0H

Lab Name: CEIMIC CORP Contract: ROY WESTON

Lab Code: CEIMIC Case No.: 0291F SAS No.: _____ SDG No.: D00064

Matrix: (soil/water) WATER Lab Sample ID: PIBLK0H

Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N) ___ Date Received: _____

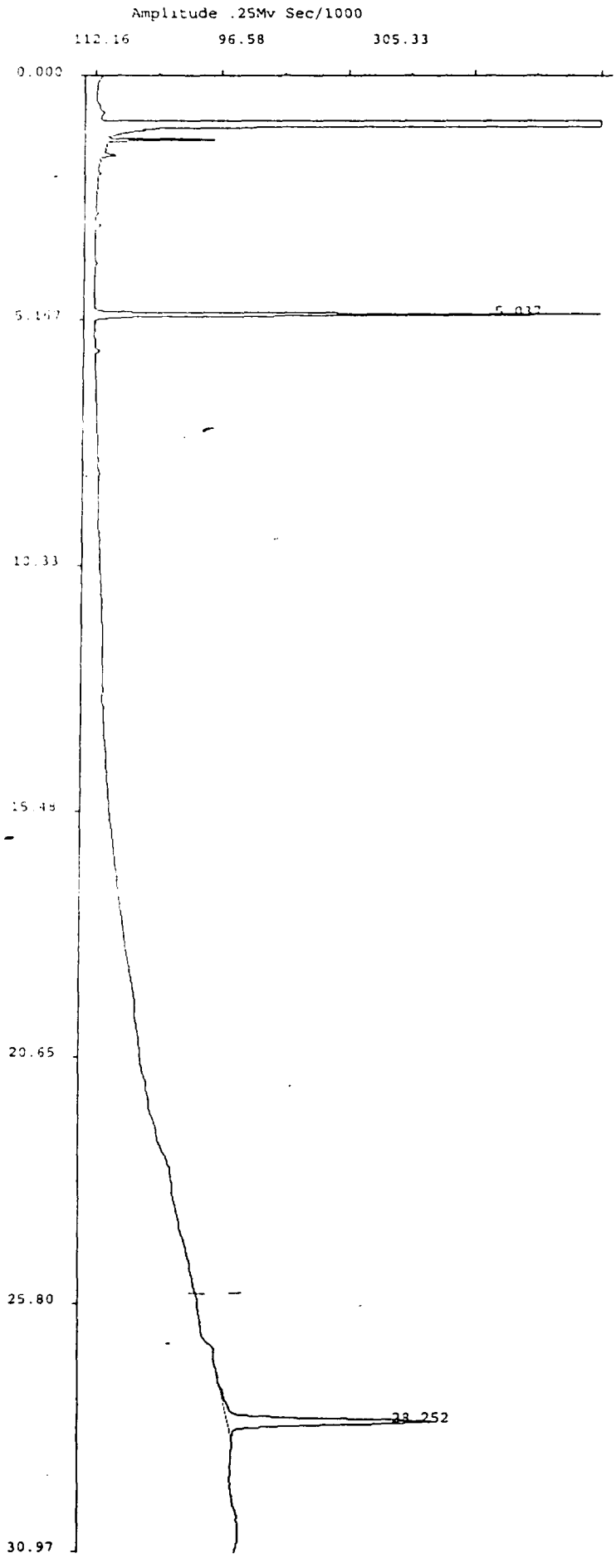
Extraction: (SepF/Cont/Sonc) _____ Date Extracted: _____

Concentrated Extract Volume: _____ (uL) Date Analyzed: 10/07/99

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U



Ceimic Corporation Pest/PCB Report

Sample Name : PIBLK0H
Lab Id : PIBLK0H
Inst Id & Col : AD19_1, DB5, 0.53mm
Volume Injected: 1.0 uL Multilevel : False
Peak Processor : Genie Application : Loop
Calculation : ExternalSTD Quantitation: AreaUnits
Result File : /DATA/RESULT/R19P05OCT075.RES
Inject Time : 0410 07Oct1999
Run Status : RunStatusOK
EndOffBaseline

100899/5

Pk #	RT	Area	Code	MASSNG	Name
1	5.04	180961	BB	.020	TCX
2	28.25	184851	BB	.016	DCB

Total Area: 365811

Method File: /DATA/METHOD/QR19P20SEP.MTH
Format File: /DATA/FORMAT/DUAL_COL.FMT
Report Time: 1322 08Oct1999

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PIBLK0J

Lab Name: CEIMIC CORP Contract: ROY WESTON

Lab Code: CEIMIC Case No.: 0291F SAS No.: _____ SDG No.: D00064

Matrix: (soil/water) WATER Lab Sample ID: PIBLK0J

Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N) ___ Date Received: _____

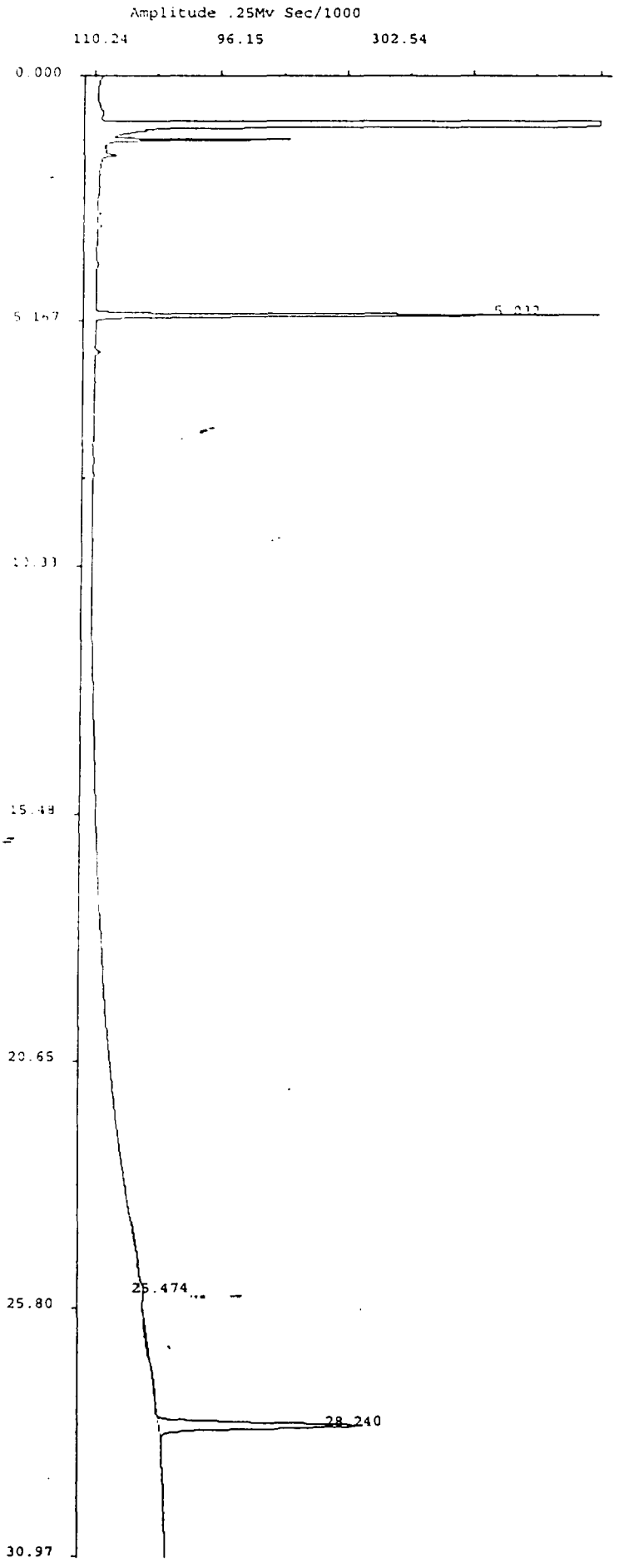
Extraction: (SepF/Cont/Sonc) _____ Date Extracted: _____

Concentrated Extract Volume: _____ (uL) Date Analyzed: 10/07/99

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U



Ceimic Corporation Pest/PCB Report

Sample Name : PIBLK0J
Lab Id : PIBLK0J
Inst Id & Col : AD19_1, DB5, 0.53mm
Volume Injected: 1.0 uL Multilevel : False
Peak Processor : Genie Application : Loop
Calculation : ExternalSTD Quantitation: AreaUnits
Result File : /DATA/RESULT/R19P05OCT088.RES
Inject Time : 1531 07Oct1999
Run Status : RunStatusOK
EndOffBaseline

160899/3

Pk #	RT	Area	Code	MASSNG	Name
1	5.03	177123	BB	.019	TCX
2	25.47	20338	BB	.004	
3	28.24	163074	BB	.014	DCB

Total Area: 360536

Method File: /DATA/METHOD/QR19P20SEP.MTH
Format File: /DATA/FORMAT/DUAL_COL.FMT
Report Time: 1329 08Oct1999

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PIBLK1A

Lab Name: CEIMIC CORP Contract: ROY WESTON

Lab Code: CEIMIC Case No.: 0291F SAS No.: _____ SDG No.: D00064

Matrix: (soil/water) WATER Lab Sample ID: PIBLK1A

Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N) ___ Date Received: _____

Extraction: (SepF/Cont/Sonc) _____ Date Extracted: _____

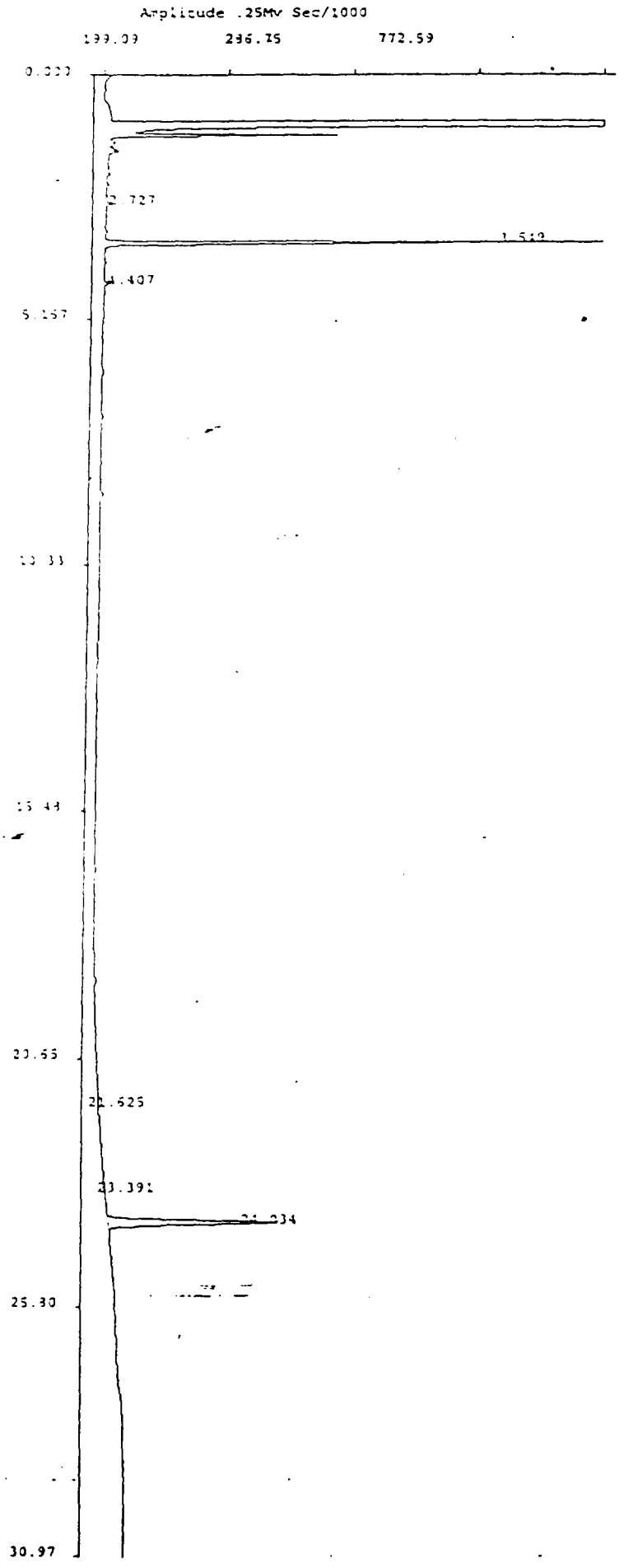
Concentrated Extract Volume: _____ (uL) Date Analyzed: 09/21/99

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND		Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U



Celmic Corporation Pest/PCB Report

Sample Name : PIBLK1A
Lab Id : PIBLK1A .I
Inst Id & Col : AD20_1, DB1701, 0.53 mm
Volume Injected: 1.0 uL Multilevel : False
Peak Processor : Genie Application : Loop
Calculation : ExternalSTD Quantitation: AreaUnits
Result File : /DATA/RESULT/R20P20SEP016.RES
Inject Time : 0052 21Sep1999
Run Status : RunStatusOK
EndOffBaseline

X 9/27/99

Pk #	RT	Area	Code	MASSNG	Name
1	2.73	5508	BB	.001	
2	3.55	430650	BB	.020	TCX
3	4.41	5461	BB	.001	
4	21.62	9442	BB	.002	
5	23.39	10706	BB	.002	
6	24.03	313399	BB	.016	DCB

Total Area: 775166

Method File: /DATA/METHOD/INDABQ20.MTH
Format File: /DATA/FORMAT/DUAL_COL.FMT
Report Time: 1922 27Sep1999

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PIBLK1B

Lab Name: CEIMIC CORP Contract: ROY WESTON

Lab Code: CEIMIC Case No.: 0291F SAS No.: _____ SDG No.: D00064

Matrix: (soil/water) WATER Lab Sample ID: PIBLK1B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N) ___ Date Received: _____

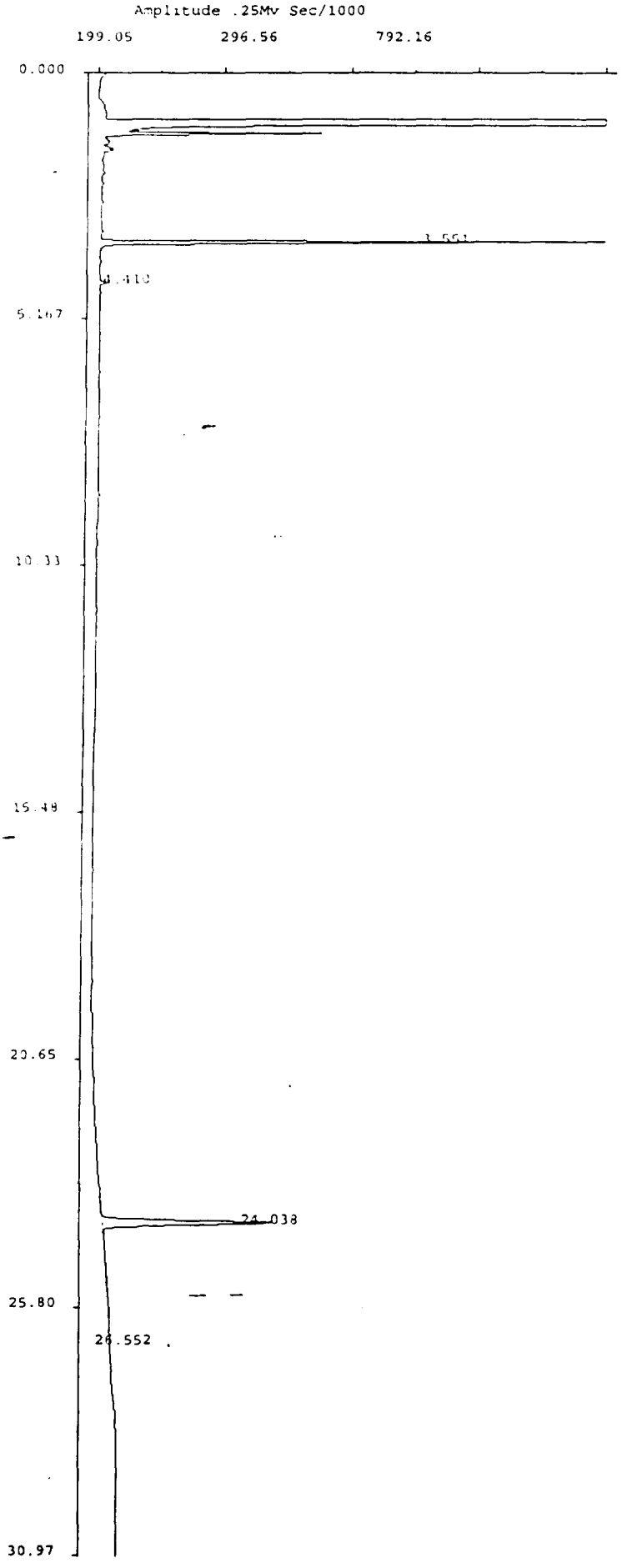
Extraction: (SepF/Cont/Sonc) _____ Date Extracted: _____

Concentrated Extract Volume: _____ (uL) Date Analyzed: 09/21/99

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U



Ceimic Corporation Pest/PCB Report

Sample Name : PIBLK1B
Lab Id : PIBLK1B
Inst Id & Col : AD20_1, DB1701, 0.53 mm
Volume Injected: 1.0 uL Multilevel : False
Peak Processor : Genie Application : Loop
Calculation : ExternalSTD Quantitation: AreaCnts
Result File : /CEIMIC21/R20P20SEP035.RES
Inject Time : 1200 21Sep1999
Run Status : RunStatusOK

100899/3

Pk #	RT	Area	Code	MASSNG	Name
1	3.55	435753	BB	.020	TCX
2	4.41	5830	BB	.001	
3	24.04	317266	BB	.017	DCB
4	26.55	15201	BB	.003	

Total Area: 774051

Method File: /DATA/METHOD/QR20P20SEP.MTH
Format File: /DATA/FORMAT/DUAL_COL.FMT
Report Time: 1148 08Oct1999

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PIBLK1C

Lab Name: CEIMIC CORP Contract: ROY WESTON

Lab Code: CEIMIC Case No.: 0291F SAS No.: _____ SDG No.: D00064

Matrix: (soil/water) WATER Lab Sample ID: PIBLK1C

Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N) ___ Date Received: _____

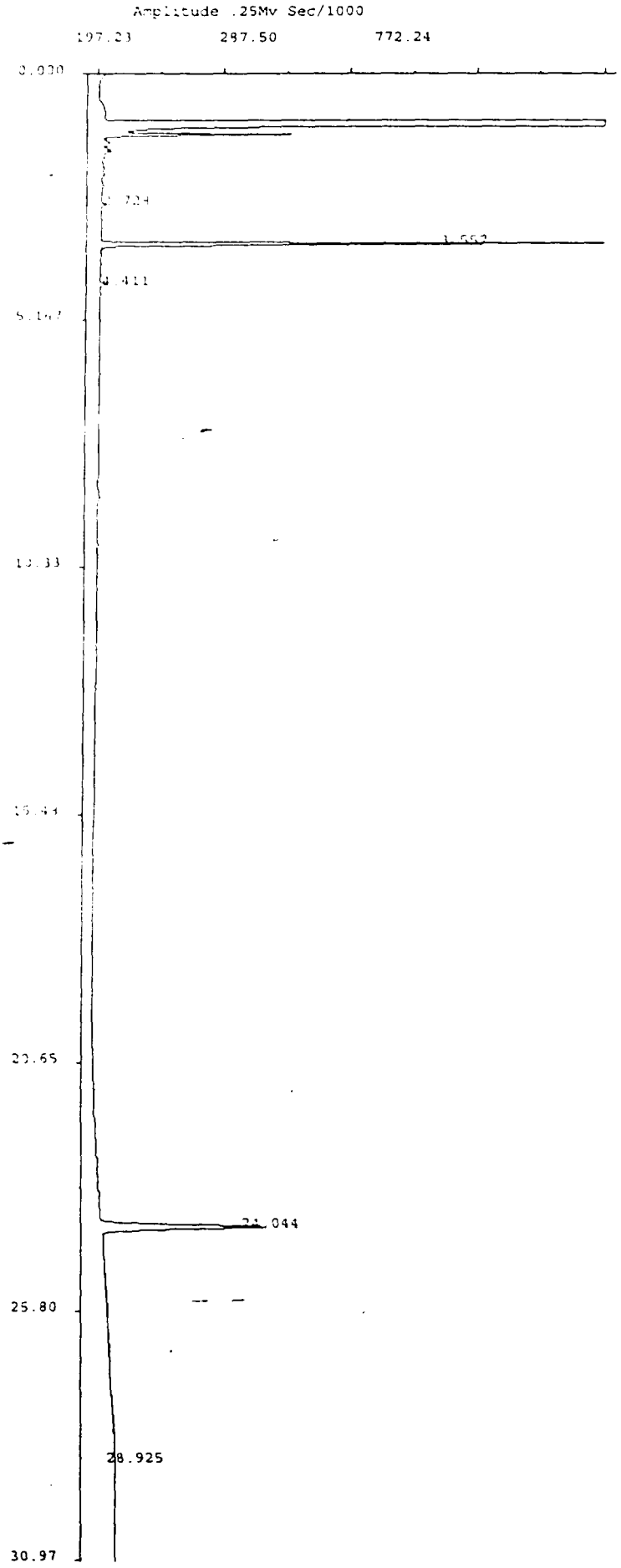
Extraction: (SepF/Cont/Sonc) _____ Date Extracted: _____

Concentrated Extract Volume: _____ (uL) Date Analyzed: 09/27/99

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U



Celmic Corporation Pest/PCB Report

Sample Name : PIBLK1C
Lab Id : PIBLK1C
Inst Id & Col : AD20_1, DB1701, 0.53 mm
Volume Injected: 1.0 uL Multilevel : False
Peak Processor : Genie Application : Loop
Calculation : ExternalSTD Quantitation: AreaUnits
Result File : /DATA/RESULT/R20P27SEP007.RES
Inject Time : 1404 27Sep1999
Run Status : RunStatusOK
EndOffBaseline

100899/3

Pk #	RT	Area	Code	MASSNG	Name
1	2.73	4222	BB	.001	
2	3.55	429635	BB	.020	TCX
3	4.41	5546	BB	.001	
4	24.04	301487	BB	.016	DCB
5	28.92	43746	BB	.020	

Total Area: 784637

Method File: /DATA/METHOD/QR20P20SEP.MTH
Format File: /DATA/FORMAT/DUAL_COL.FMT
Report Time: 1158 08Oct1999

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PIBLK1D

Lab Name: CEIMIC CORP Contract: ROY WESTON

Lab Code: CEIMIC Case No.: 0291F SAS No.: _____ SDG No.: D00064

Matrix: (soil/water) WATER Lab Sample ID: PIBLK1D

Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N) ___ Date Received: _____

Extraction: (SepF/Cont/Sonc) _____ Date Extracted: _____

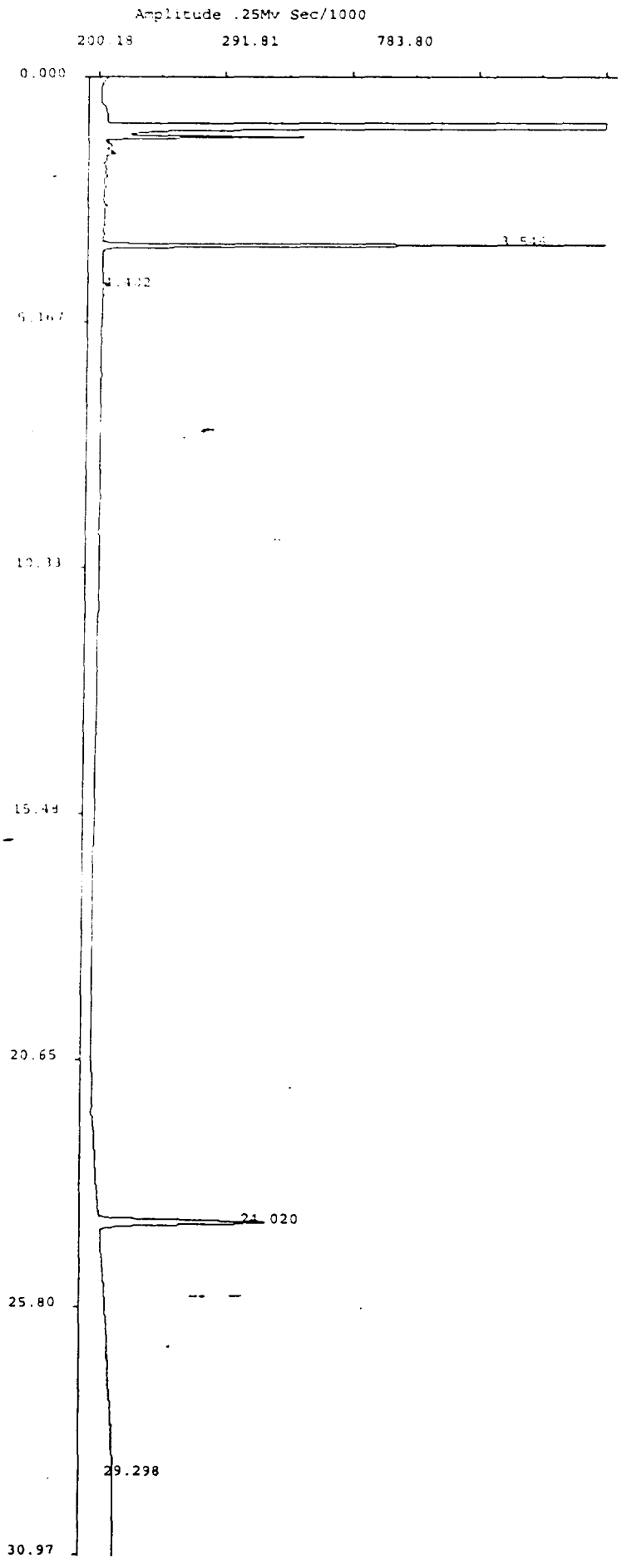
Concentrated Extract Volume: _____ (uL) Date Analyzed: 09/28/99

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

1445



Ceimic Corporation Pest/PCB Report

Sample Name : PIBLK1D
Lab Id : PIBLK1D
Inst Id & Col : AD20_1, DB1701, 0.53 mm
Volume Injected: 1.0 uL Multilevel : False
Peak Processor : Genie Application : Loop
Calculation : ExternalSTD Quantitation: AreaUnits
Result File : /DATA/RESULT/R20P27SEP025.RES
Inject Time : 0048 28Sep1999
Run Status : RunStatusOK

100839/S

Pk #	RT	Area	Code	MASSNG	Name
1	3.55	451570	BB	.021	TCX
2	4.40	5779	BB	.001	
3	24.02	321840	BB	.017	DCB
4	29.30	16162	BB	.004	

Total Area: 795351

Method File: /DATA/METHOD/QR20P20SEP.MTH
Format File: /DATA/FORMAT/DUAL_COL.FMT
Report Time: 1227 08Oct1999

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PIBLK1E

Lab Name: CEIMIC CORP Contract: ROY WESTON

Lab Code: CEIMIC Case No.: 0291F SAS No.: _____ SDG No.: D00064

Matrix: (soil/water) WATER Lab Sample ID: PIBLK1E

Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N) ___ Date Received: _____

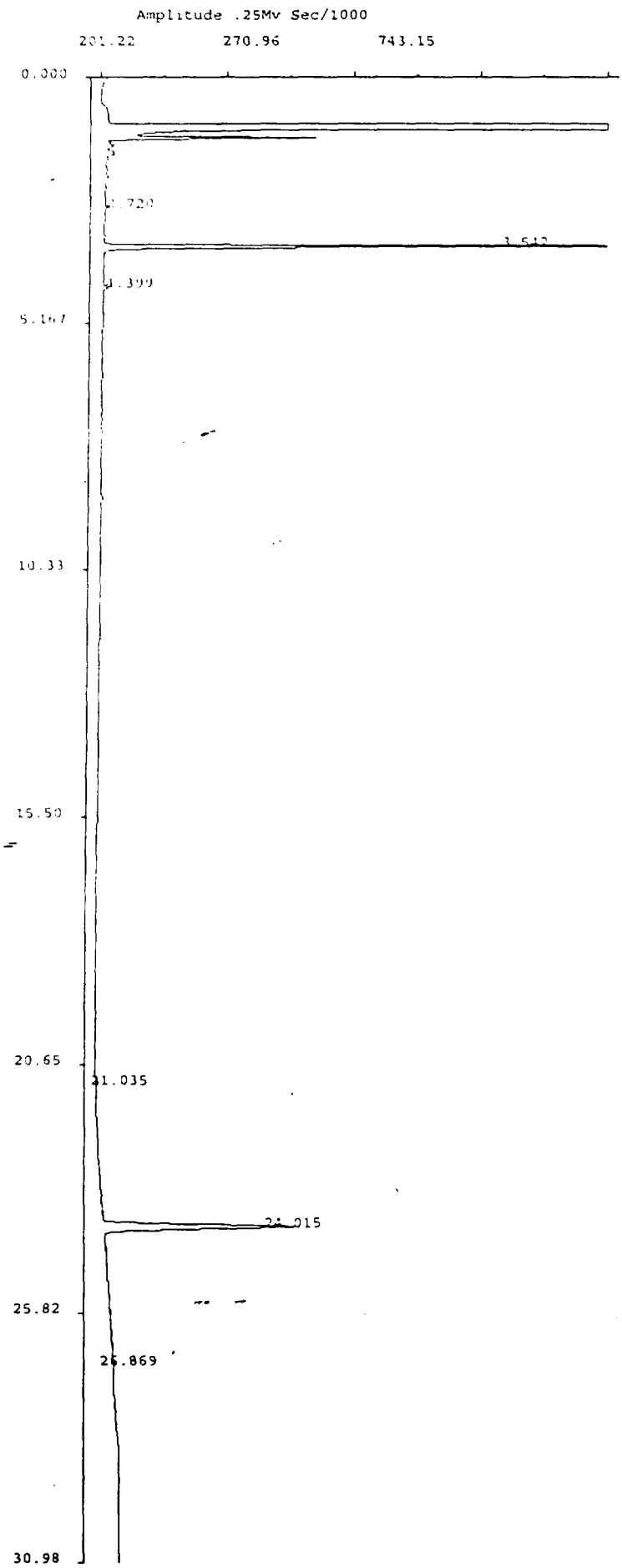
Extraction: (SepF/Cont/Sonc) _____ Date Extracted: _____

Concentrated Extract Volume: _____ (uL) Date Analyzed: 09/28/99

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U



Ceimic Corporation Pest/PCB Report

Sample Name : PIBLK1E
Lab Id : PIBLK1E
Inst Id & Col : AD20_1, DB1701, 0.53 mm
Volume Injected: 1.0 uL Multilevel : False
Peak Processor : Genie Application : Loop
Calculation : ExternalSTD Quantitation: AreaUnits
Result File : /DATA/RESULT/R20P27SEP042.RES
Inject Time : 1046 28Sep1999
Run Status : UserAbortedRun

100899/3

Pk #	RT	Area	Code	MASSNG	Name
1	2.72	4511	BB	.001	
2	3.54	454435	BB	.021	TCX
3	4.40	5590	BB	.001	
4	21.03	4917	BB	.001	
5	24.01	333076	BB	.018	DCB
6	26.87	4389	BB	.001	

Total Area: 806918

Method File: /DATA/METHOD/QR20P20SEP.MTH
Format File: /DATA/FORMAT/DUAL_COL.FMT
Report Time: 1254 08Oct1999

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PIBLK1F

Lab Name: CEIMIC CORP Contract: ROY WESTON

Lab Code: CEIMIC Case No.: 0291F SAS No.: _____ SDG No.: D00064

Matrix: (soil/water) WATER Lab Sample ID: PIBLK1F

Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N) ___ Date Received: _____

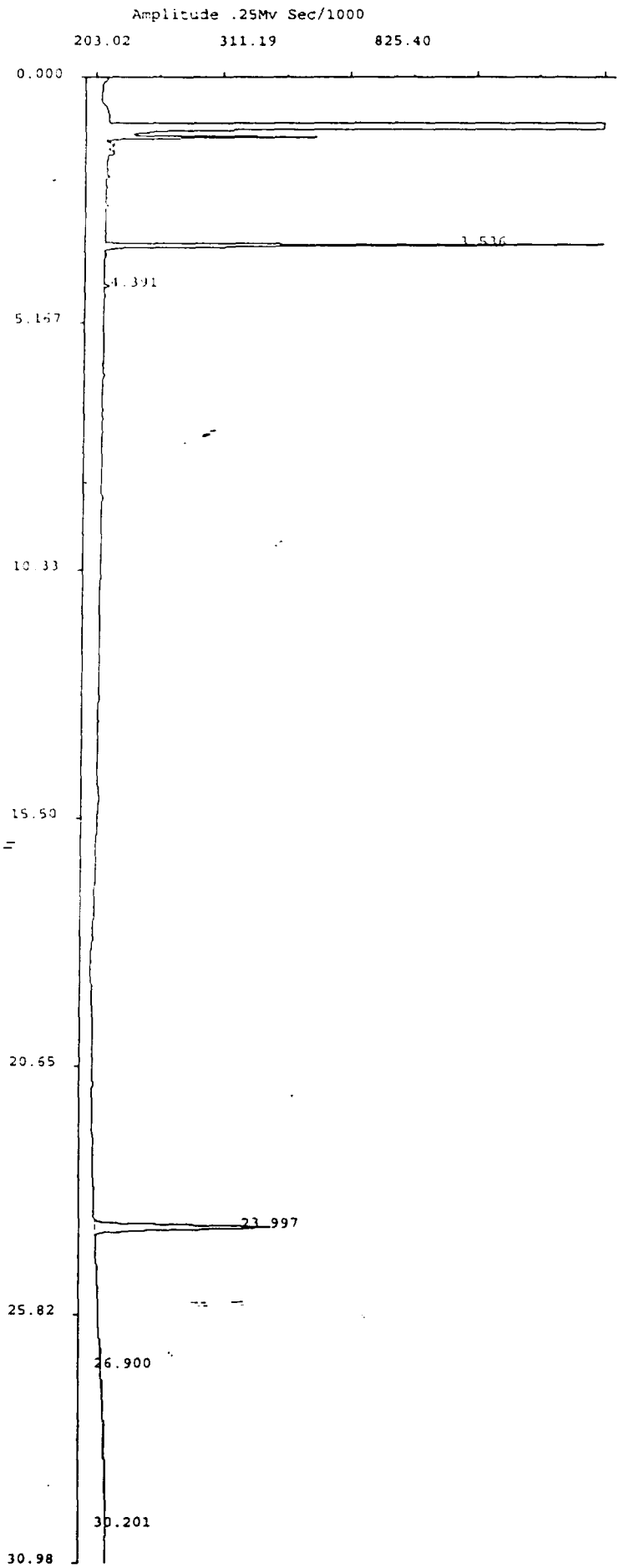
Extraction: (SepF/Cont/Sonc) _____ Date Extracted: _____

Concentrated Extract Volume: _____ (uL) Date Analyzed: 10/06/99

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U



Ceimic Corporation Pest/PCB Report

Sample Name : PIBLK1F
Lab Id : PIBLK1F
Inst Id & Col : AD20_1, DB1701, 0.53 mm
Volume Injected: 1.0 uL Multilevel : False
Peak Processor : Genie Application : Loop
Calculation : ExternalSTD Quantitation: AreaUnits
Result File : /DATA/RESULT/R20P05OCT040.RES
Inject Time : 0738 06Oct1999
Run Status : RunStatusOK

100899/3

Pk #	RT	Area	Code	MASSNG	Name
1	3.54	466351	BB	.021	TCX
2	4.39	6168	BB	.001	
3	24.00	354123	BB	.019	DCB
4	26.90	6998	BB	.002	
5	30.20	46828	BB	.010	

Total Area: 880468

Method File: /DATA/METHOD/QR20P20SEP.MTH
Format File: /DATA/FORMAT/DUAL_COL.FMT
Report Time: 1259 08Oct1999

1450

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PIBLK1G

Lab Name: CEIMIC CORP Contract: ROY WESTON

Lab Code: CEIMIC Case No.: 0291F SAS No.: _____ SDG No.: D00064

Matrix: (soil/water) WATER Lab Sample ID: PIBLK1G

Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N) ___ Date Received: _____

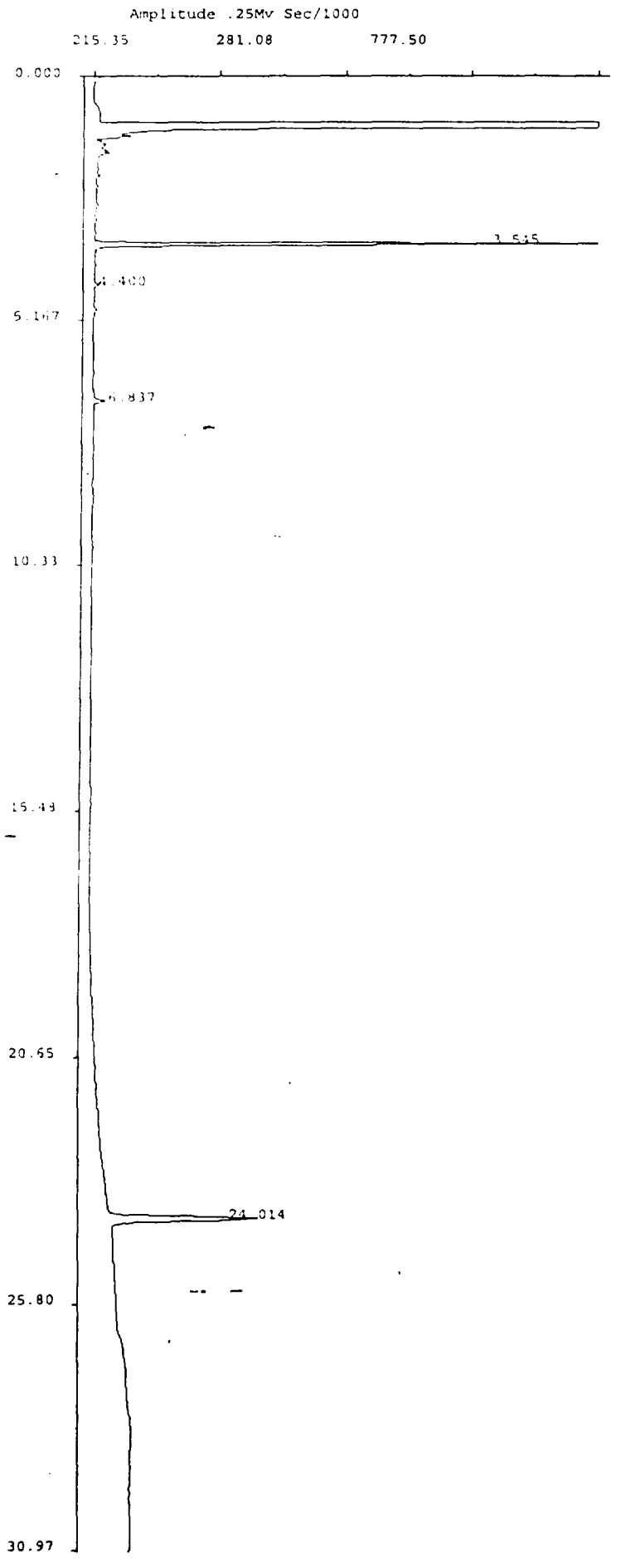
Extraction: (SepF/Cont/Sonc) _____ Date Extracted: _____

Concentrated Extract Volume: _____ (uL) Date Analyzed: 10/06/99

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U



Ceimic Corporation Pest/PCB Report

Sample Name : PIBLK1G
Lab Id : PIBLK1G
Inst Id & Col : AD20_1, DB1701, 0.53 mm
Volume Injected: 1.0 uL Multilevel : False
Peak Processor : Genie Application : Loop
Calculation : ExternalSTD Quantitation: AreaUnits
Result File : /DATA/RESULT/R20P05OCT057.RES
Inject Time : 1737 06Oct1999
Run Status : RunStatusOK

100899/5

Pk #	RT	Area	Code	MASSNG	Name
1	3.54	444131	BB	.020	TCX
2	4.40	5809	BB	.001	
3	6.84	13619	BB	.003	
4	24.01	270329	BB	.014	DCB

Total Area: 733888

Method File: /DATA/METHOD/QR20P20SEP.MTH
Format File: /DATA/FORMAT/DUAL_COL.FMT
Report Time: 1314 08Oct1999

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PIBLK1H

Lab Name: CEIMIC CORP Contract: ROY WESTON

Lab Code: CEIMIC Case No.: 0291F SAS No.: _____ SDG No.: D00064

Matrix: (soil/water) WATER Lab Sample ID: PIBLK1H

Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N) ___ Date Received: _____

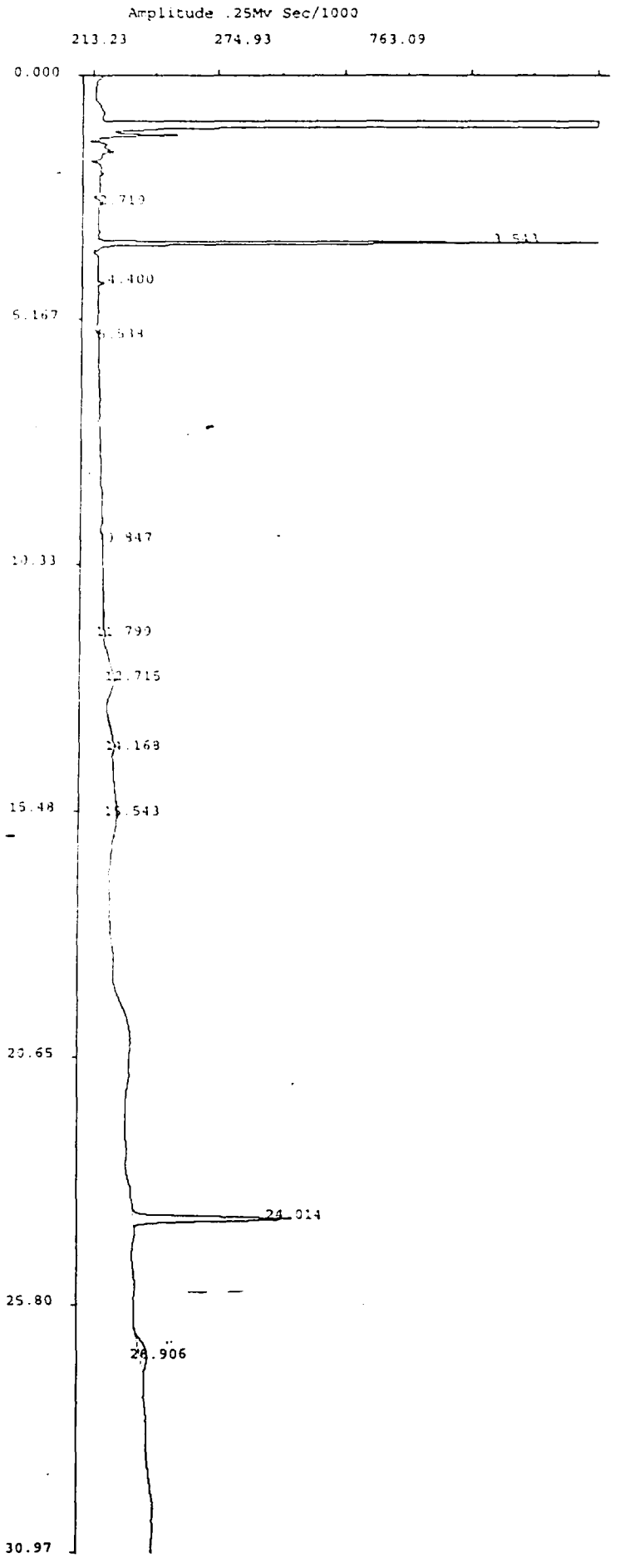
Extraction: (SepF/Cont/Sonc) _____ Date Extracted: _____

Concentrated Extract Volume: _____ (uL) Date Analyzed: 10/07/99

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U



Ceimic Corporation Pest/PCB Report

Sample Name : PIBLK1H
Lab Id : PIBLK1H
Inst Id & Col : AD20_1, DB1701, 0.53 mm
Volume Injected: 1.0 uL Multilevel : False
Peak Processor : Genie Application : Loop
Calculation : ExternalSTD Quantitation: AreaUnits
Result File : /DATA/RESULT/R20P05OCT075.RES
Inject Time : 0410 07Oct1999
Run Status : RunStatusOK
EndOffBaseline

100559/5

Pk #	RT	Area	Code	MASSNG	Name
1	2.72	9113	BB	.002	
2	3.54	465913	BB	.021	TCX
3	4.40	6338	BB	.001	
4	5.54	4391	BB	.001	
5	9.85	4662	BB	.001	
6	11.80	12305	BB	.003	
7	12.72	106260	BB	.023	
8	14.17	28182	BB	.006	
9	15.54	6792	BB	.000	ENDOSULF. II
10	24.01	291179	BB	.015	DCB
11	26.91	64672	BB	.014	

Total Area: 999808

100559/5

Method File: /DATA/METHOD/QR20P20SEP.MTH
Format File: /DATA/FORMAT/DUAL_COL.FMT
Report Time: 1327 08Oct1999

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PIBLK1J

Lab Name: CEIMIC CORP Contract: ROY WESTON

Lab Code: CEIMIC Case No.: 0291F SAS No.: _____ SDG No.: D00064

Matrix: (soil/water) WATER Lab Sample ID: PIBLK1J

Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N) ___ Date Received: _____

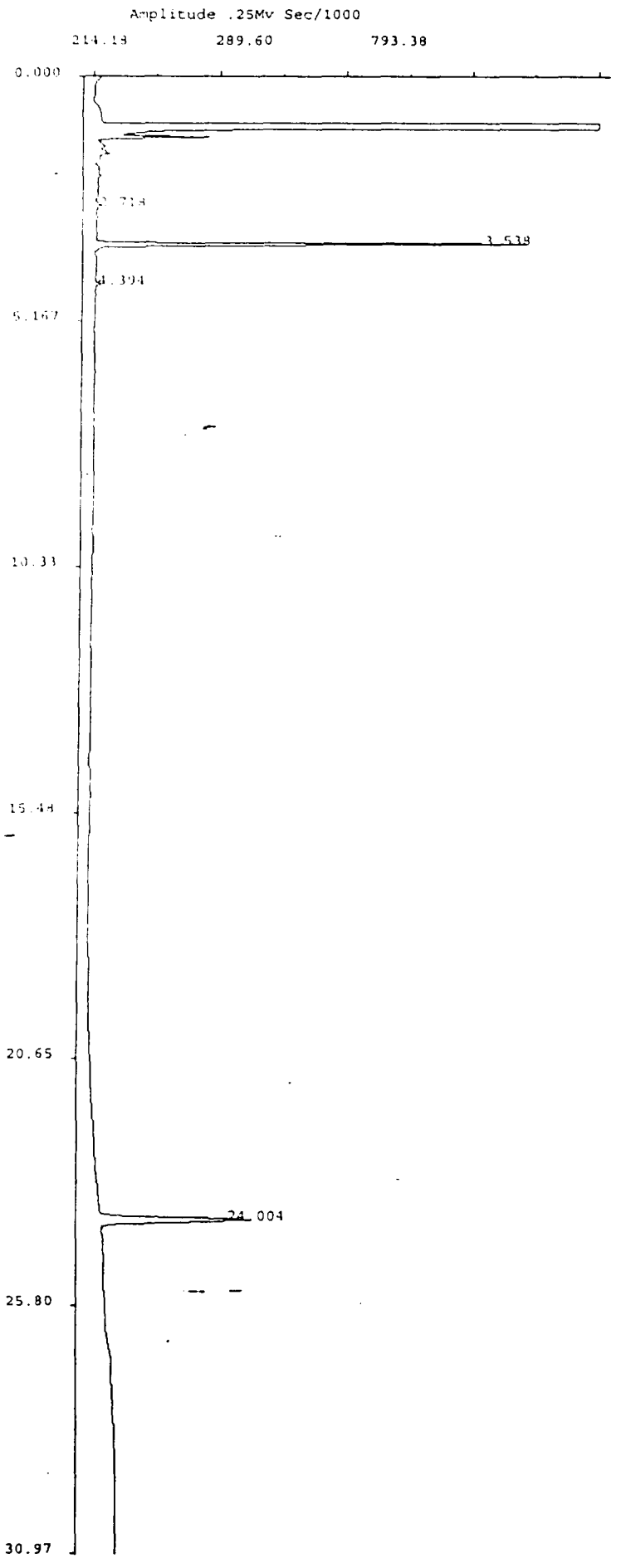
Extraction: (SepF/Cont/Sonc) _____ Date Extracted: _____

Concentrated Extract Volume: _____ (uL) Date Analyzed: 10/07/99

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U



Ceimic Corporation Pest/PCB Report

Sample Name : PIBLK1J
Lab Id : PIBLK1J
Inst Id & Col : AD20_1, DB1701, 0.53 mm
Volume Injected: 1.0 uL Multilevel : False
Peak Processor : Genie Application : Loop
Calculation : ExternalSTD Quantitation: AreaUnits
Result File : /DATA/RESULT/R20P05OCT088.RES
Inject Time : 1531 07Oct1999
Run Status : RunStatusOK

100844/5

Pk #	RT	Area	Code	MASSNG	Name
1	2.72	7768	BB	.002	
2	3.54	456653	BB	.021	TCX
3	4.39	5818	BB	.001	
4	24.00	287281	BB	.015	DCB

Total Area: 757521

Method File: /DATA/METHOD/QR20P20SEP.MTH
Format File: /DATA/FORMAT/DUAL_COL.FMT
Report Time: 1334 08Oct1999

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PLCS01

Lab Name: CEIMIC CORP Contract: ROY WESTON

Lab Code: CEIMIC Case No.: 0291F SAS No.: _____ SDG No.: D00064

Matrix: (soil/water) SOIL Lab Sample ID: P0914-LCS2

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 0 decanted: (Y/N) N Date Received: 09/14/99

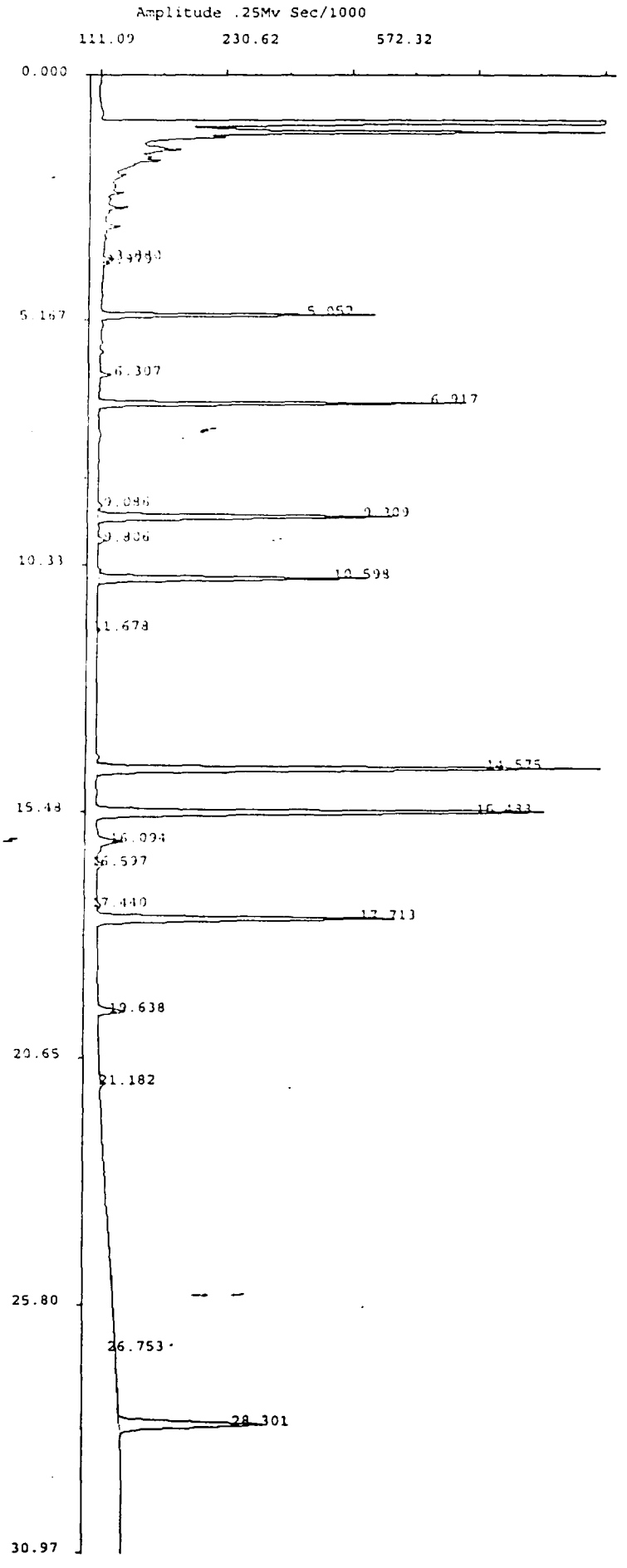
Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 09/14/99

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 09/27/99

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	1.7	U
319-85-7	beta-BHC	1.7	U
319-86-8	delta-BHC	1.7	U
58-89-9	gamma-BHC (Lindane)	11	
76-44-8	Heptachlor	10	
309-00-2	Aldrin	12	
1024-57-3	Heptachlor epoxide	1.7	U
959-98-8	Endosulfan I	1.7	U
60-57-1	Dieldrin	24	
72-55-9	4,4'-DDE	3.3	U
72-20-8	Endrin	30	
33213-65-9	Endosulfan II	3.3	U
72-54-8	4,4'-DDD	3.3	U
1031-07-8	Endosulfan sulfate	3.3	U
50-29-3	4,4'-DDT	23	
72-43-5	Methoxychlor	17	U
53494-70-5	Endrin ketone	3.3	U
7421-93-4	Endrin aldehyde	3.3	U
5103-71-9	alpha-Chlordane	1.7	U
5103-74-2	gamma-Chlordane	1.7	U
8001-35-2	Toxaphene	170	U
12674-11-2	Aroclor-1016	33	U
11104-28-2	Aroclor-1221	67	U
11141-16-5	Aroclor-1232	33	U
53469-21-9	Aroclor-1242	33	U
12672-29-6	Aroclor-1248	33	U
11097-69-1	Aroclor-1254	33	U
11096-82-5	Aroclor-1260	33	U



Ceimic Corporation Pest/PCB Report

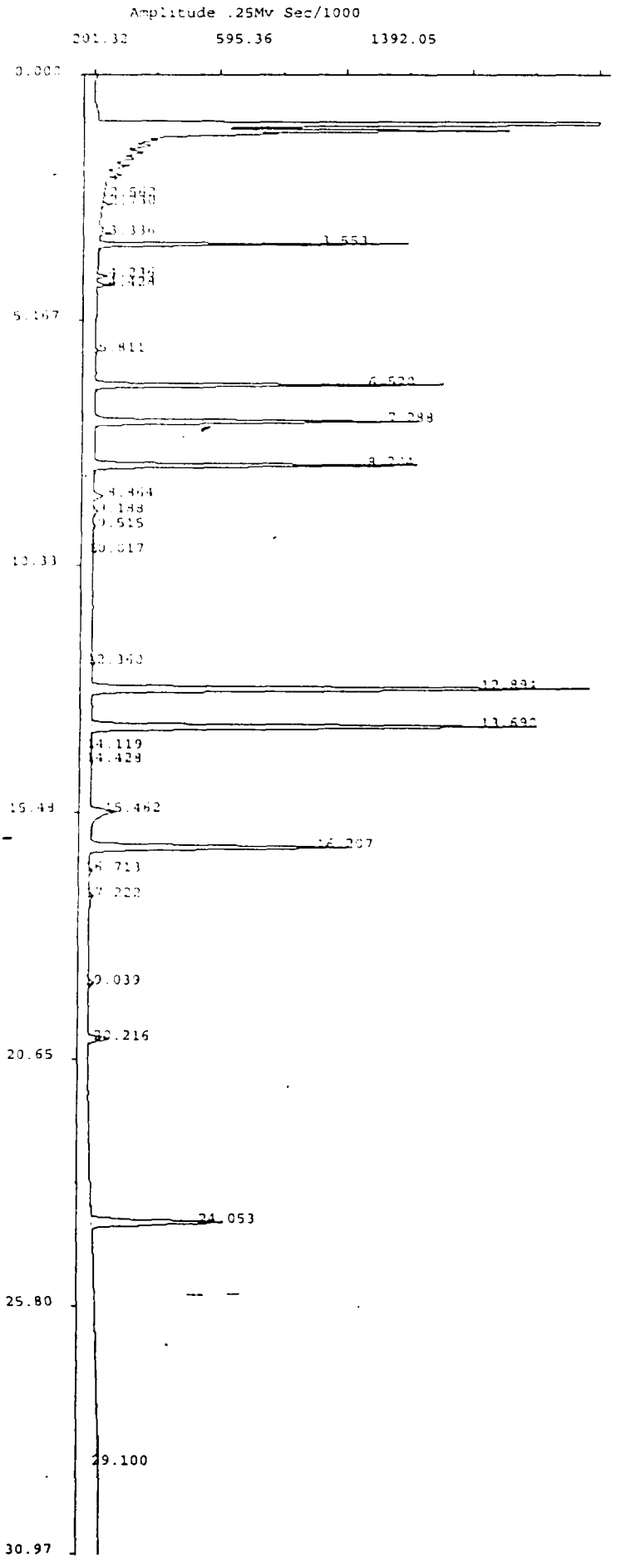
Sample Name : PLCS01
Lab Id : P0914-LCS2
Inst Id & Col : AD19_1, DB5, 0.53mm
Volume Injected: 1.0 uL — Multilevel : False
Peak Processor : Genie — Application : Loop
Calculation : ExternalSTD — Quantitation: AreaUnits
Result File : /DATA/RESULT/R19P27SEP010.RES
Inject Time : 1550 27Sep1999
Run Status : RunStatusOK

100899/5

Pk #	RT	Area	Code	MASSNG	Name
1	3.88	8148	BV	.002	
2	3.98	6118	VB	.001	
3	5.05	229793	BB	.025	TCX
4	6.31	11228	BB	.002	
5	6.92	333845	BB	.033	GAMMA-BHC
6	9.09	4865	BB	.001	
7	9.31	361052	BB	.031	HEPTACHLOR
8	9.81	9049	BB	.002	
9	10.60	332745	BB	.036	ALDRIN
10	11.68	4019	BB	.001	
11	14.58	679393	BB	.071	DIELDRIN
12	15.49	609846	BB	.089	ENDRIN
13	16.09	33000	BB	.005	4,4'-DDD 100899/5
14	16.60	8424	BB	.001	ENDRIN ALDEH
15	17.44	4853	BB	.001	
16	17.71	419563	BB	.071	4,4'-DDT
17	19.64	42418	BB	.005	ENDRIN KETONE
18	21.18	4548	BB	.001	100899/5
19	26.75	13581	BB	.003	
20	28.30	278654	BB	.025	DCB

Total Area: 3395138

Method File: /DATA/METHOD/QR19P20SEP.MTH
Format File: /DATA/FORMAT/DUAL_COL.FMT
Report Time: 1200 08Oct1999



Ceimic Corporation Pest/PCB Report

Sample Name : PLCS01
Lab Id : P0914-LCS2
Inst Id & Col : AD20_1, DB1701, 0.53 mm
Volume Injected: 1.0 uL Multilevel : False
Peak Processor : Genie Application : Loop
Calculation : ExternalSTD Quantitation: AreaUnits
Result File : /DATA/RESULT/R20P27SEP010.RES
Inject Time : 1550 27Sep1999
Run Status : RunStatusOK
EndOffBaseline

100899/S

Pk #	RT	Area	Code	MASSNG	Name
1	2.56	4247	BB	.001	
2	2.73	15863	BB	.003	
3	3.34	19727	BB	.004	
4	3.55	558608	BB	.025	TCX
5	4.24	19512	BB	.004	
6	4.43	30949	BB	.007	
7	5.81	8390	BB	.002	
8	6.52	783035	BB	.032	GAMMA-BHC
9	7.29	889524	BB	.034	HEPTACHLOR
10	8.20	868055	BB	.037	ALDRIN
11	8.86	29004	BB	.006	
12	9.19	14462	BB	.003	
13	9.52	6891	BB	.002	
14	10.02	8671	BB	.002	
15	12.36	11267	BB	.001	4,4'-DDE
16	12.89	1637540	BB	.073	DIELDRIN
17	13.69	1466281	BB	.090	ENDRIN
18	14.12	6270	BB	.001	
19	14.43	9160	BB	.002	
20	15.46	151682	BB	.010	4,4'-DDD
21	16.21	877515	BB	.082	4,4'-DDT
22	16.71	13315	BB	.003	
23	17.22	23024	BB	.002	ENDRIN ALDEH
24	19.04	24732	BB	.005	
25	20.22	70268	BB	.005	ENDRIN KETONE
26	24.05	517811	BB	.027	DCB
27	29.10	15334	BB	.003	

100899/S

100899/S

100899/S

Total Area: 8081137

Method File: /DATA/METHOD/QR20P20SEP.MTH
Format File: /DATA/FORMAT/DUAL_COL.FMT
Report Time: 1204 08Oct1999

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PLCS02

Lab Name: CEIMIC CORP Contract: ROY WESTON

Lab Code: CEIMIC Case No.: 0291F SAS No.: _____ SDG No.: D00064

Matrix: (soil/water) WATER Lab Sample ID: P0914-LCS8

Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N) ___ Date Received: 09/14/99

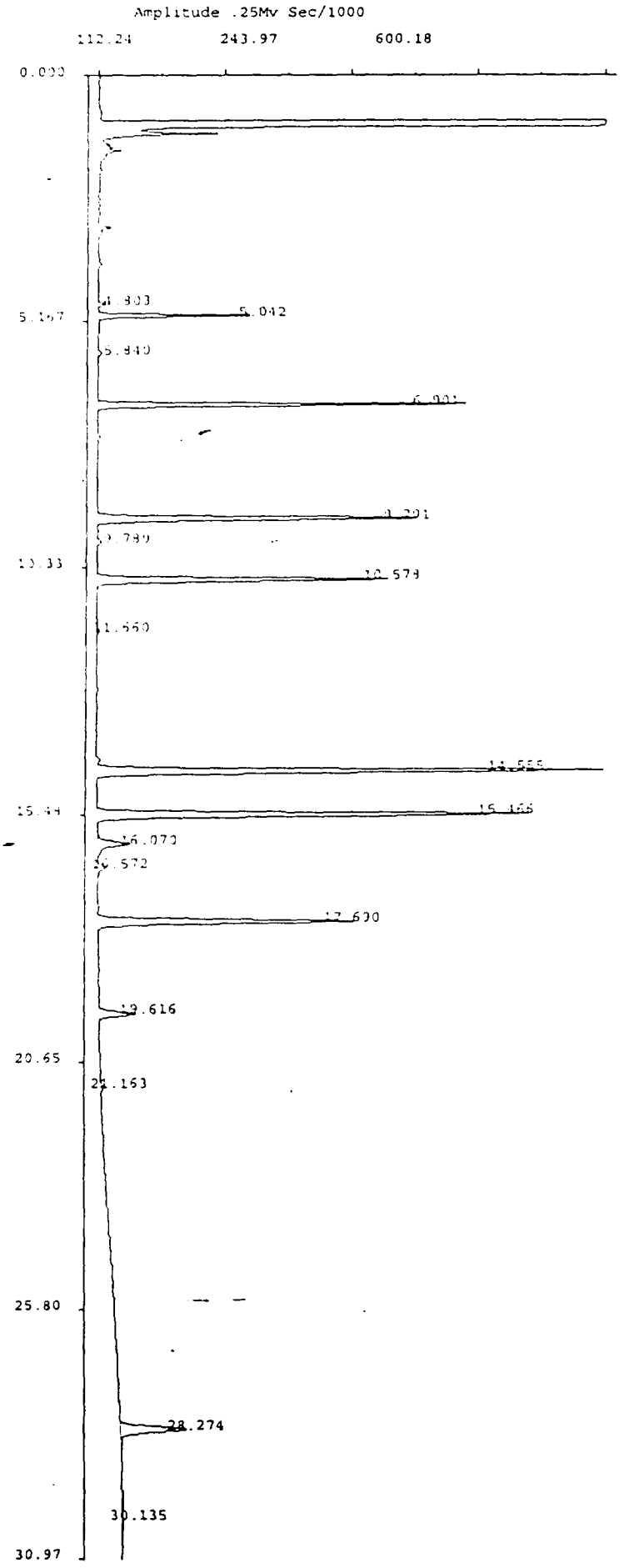
Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 09/14/99

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 09/27/99

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.38	
76-44-8	Heptachlor	0.34	
309-00-2	Aldrin	0.41	
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.74	
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.90	
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.65	
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U



Ceimic Corporation Pest/PCB Report

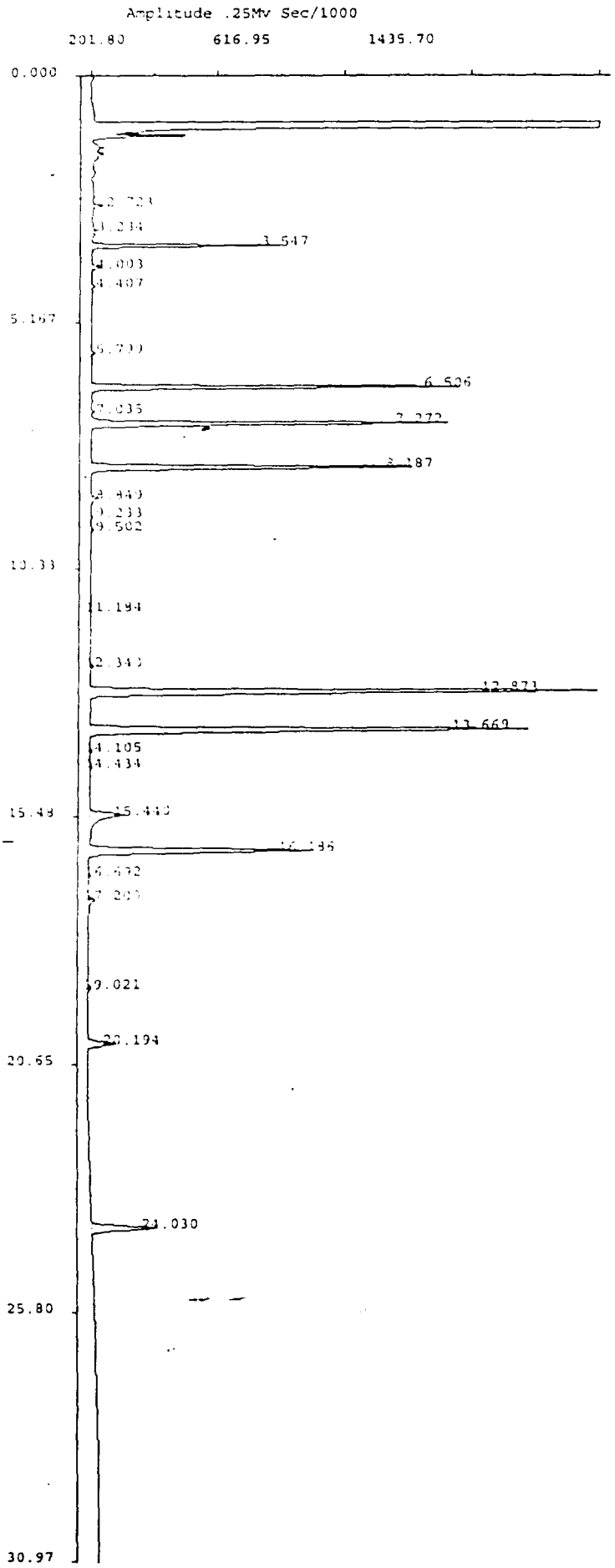
Sample Name : PLCS02
Lab Id : P0914-LCS8
Inst Id & Col : AD19_1, DB5, 0.53mm
Volume Injected: 1.0 uL
Multilevel : False
Peak Processor : Genie
Application : Loop
Calculation : ExternalSTD
Quantitation: AreaUnits
Result File : /DATA/RESULT/R19P27SEP019.RES
Inject Time : 2106 27Sep1999
Run Status : RunStatusOK

100899/3

Pk #	RT	Area	Code	MASSNG	Name
1	4.80	7648	BB	.002	
2	5.04	140094	BB	.015	TCX
3	5.84	5312	BB	.001	
4	6.90	397252	BB	.039	GAMMA-BHC
5	9.29	406081	BB	.034	HEPTACHLOR
6	9.79	6272	BB	.001	
7	10.58	388669	BB	.041	ALDRIN
8	11.66	4346	BB	.001	
9	14.55	711937	BB	.074	DIELDRIN
10	15.47	615623	BB	.090	ENDRIN
11	16.07	64303	BB	.009	4,4'-DDD 100899/6
12	16.57	14188	BB	.002	ENDRIN ALDEH
13	17.69	388119	BB	.065	4,4'-DDT
14	19.62	60858	BB	.007	ENDRIN KETONE 100899
15	21.16	5737	BB	.001	
16	28.27	135534	BB	.012	DCB
17	30.13	10442	BB	.002	

Total Area: 3362415

Method File: /DATA/METHOD/QR19P20SEP.MTH
Format File: /DATA/FORMAT/DUAL_COL.FMT
Report Time: 1209 08Oct1999



Ceimic Corporation Pest/PCB Report

Sample Name : PLCS02
Lab Id : P0914-LCS8
Inst Id & Col : AD20_1, DB1701, 0.53 mm
Volume Injected: 1.0 uL Multilevel : False
Peak Processor : Genie Application : Loop
Calculation : ExternalSTD Quantitation: AreaUnits
Result File : /DATA/RESULT/R20P27SEP019.RES
Inject Time : 2106 27Sep1999
Run Status : RunStatusOK

100899/3

Pk #	RT	Area	Code	MASSNG	Name
1	2.72	24109	BB	.005	
2	3.23	4573	BB	.001	
3	3.55	352379	BB	.016	TCX
4	4.00	21214	BB	.005	
5	4.41	5721	BB	.001	
6	5.80	8224	BB	.002	
7	6.51	921402	BB	.038	GAMMA-BHC
8	7.04	6888	BB	.002	
9	7.27	971877	BB	.037	HEPTACHLOR
10	8.19	974841	BB	.042	ALDRIN
11	8.85	18677	BB	.004	
12	9.23	4413	BB	.001	
13	9.50	6285	BB	.001	
14	11.18	4410	BB	.001	
15	12.34	11754	BB	.001	4,4'-DDE
16	12.87	1697191	BB	.075	DIELDRIN
17	13.67	1461859	BB	.090	ENDRIN
18	14.10	6758	BB	.001	
19	14.43	10329	BB	.002	
20	15.44	187598	BB	.012	4,4'-DDD
21	16.19	784209	BB	.073	4,4'-DDT
22	16.69	4375	BB	.001	
23	17.20	36856	BB	.003	ENDRIN ALDEH
24	19.02	15285	BB	.003	
25	20.19	99690	BB	.007	ENDRIN KETONE
26	24.03	255145	BB	.013	DCB

Total Area: 7896063

Method File: /DATA/METHOD/QR20P20SEP.MTH
Format File: /DATA/FORMAT/DUAL_COL.FMT
Report Time: 1215 08Oct1999

100899/3

100899/3

100899/3

100899/3

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PLCS03

Lab Name: CEIMIC CORP Contract: ROY WESTON

Lab Code: CEIMIC Case No.: 0291F SAS No.: _____ SDG No.: D00064

Matrix: (soil/water) SOIL Lab Sample ID: P0915-LCS7

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 0 decanted: (Y/N) N Date Received: 09/15/99

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 09/15/99

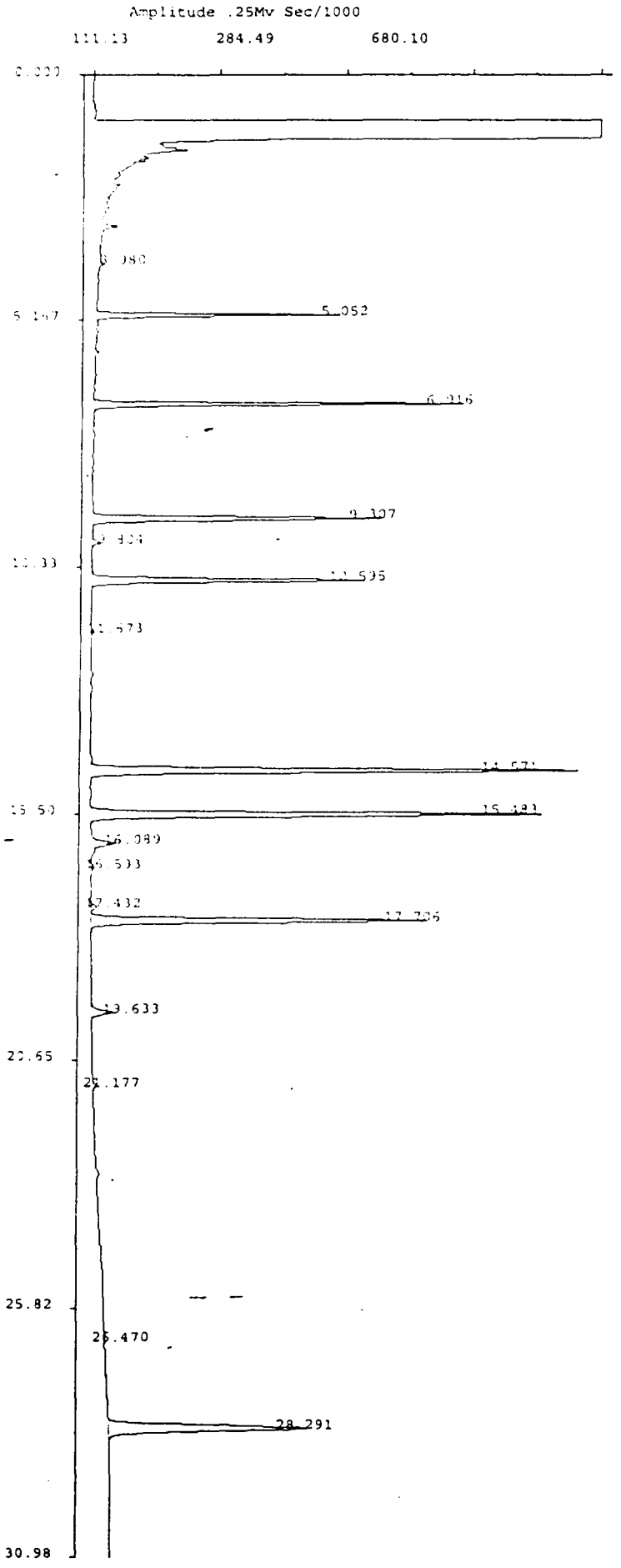
Concentrated Extract Volume: 5000 (uL) Date Analyzed: 09/27/99

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	1.7	U
319-85-7	beta-BHC	1.7	U
319-86-8	delta-BHC	1.7	U
58-89-9	gamma-BHC (Lindane)	13	
76-44-8	Heptachlor	12	
309-00-2	Aldrin	14	
1024-57-3	Heptachlor epoxide	1.7	U
959-98-8	Endosulfan I	1.7	U
60-57-1	Dieldrin	29	
72-55-9	4,4'-DDE	3.3	U
72-20-8	Endrin	37	
33213-65-9	Endosulfan II	3.3	U
72-54-8	4,4'-DDD	3.3	U
1031-07-8	Endosulfan sulfate	3.3	U
50-29-3	4,4'-DDT	33	
72-43-5	Methoxychlor	17	U
53494-70-5	Endrin ketone	3.3	U
7421-93-4	Endrin aldehyde	3.3	U
5103-71-9	alpha-Chlordane	1.7	U
5103-74-2	gamma-Chlordane	1.7	U
8001-35-2	Toxaphene	170	U
12674-11-2	Aroclor-1016	33	U
11104-28-2	Aroclor-1221	67	U
11141-16-5	Aroclor-1232	33	U
53469-21-9	Aroclor-1242	33	U
12672-29-6	Aroclor-1248	33	U
11097-69-1	Aroclor-1254	33	U
11096-82-5	Aroclor-1260	33	U

1463



Ceimic Corporation Pest/PCB Report

Sample Name : PLCS03
Lab Id : P0915-LCS7
Inst Id & Col : AD19_1, DB5, 0.53mm
Volume Injected: 1.0 uL Multilevel : False
Peak Processor : Genie Application : Loop
Calculation : ExternalSTD Quantitation: AreaUnits
Result File : /DATA/RESULT/R19P27SEP012.RES
Inject Time : 1700 27Sep1999
Run Status : RunStatusOK
EndOffBaseline

100899/5

Pk #	RT	Area	Code	MASSNG	Name
1	3.98	6154	VB	.001	
2	5.05	271356	BB	.030	TCX
3	6.92	413994	BB	.041	GAMMA-BHC
4	9.31	431965	BB	.037	HEPTACHLOR
5	9.80	11023	BB	.002	
6	10.60	406823	BB	.043	ALDRIN
7	11.67	5485	BB	.001	
8	14.57	832272	BB	.087	DIELDRIN
9	15.48	782517	BB	.114	ENDRIN
10	16.09	39706	BB	.006	4,4'-DDD
11	16.59	4277	BB	.001	ENDRIN ALDEH
12	17.43	10417	BB	.002	
13	17.71	592670	BB	.100	4,4'-DDT
14	19.63	43415	BB	.005	ENDRIN KETONE
15	21.18	7628	BB	.002	
16	26.47	10688	BB	.002	
17	28.29	486642	BB	.043	DCB

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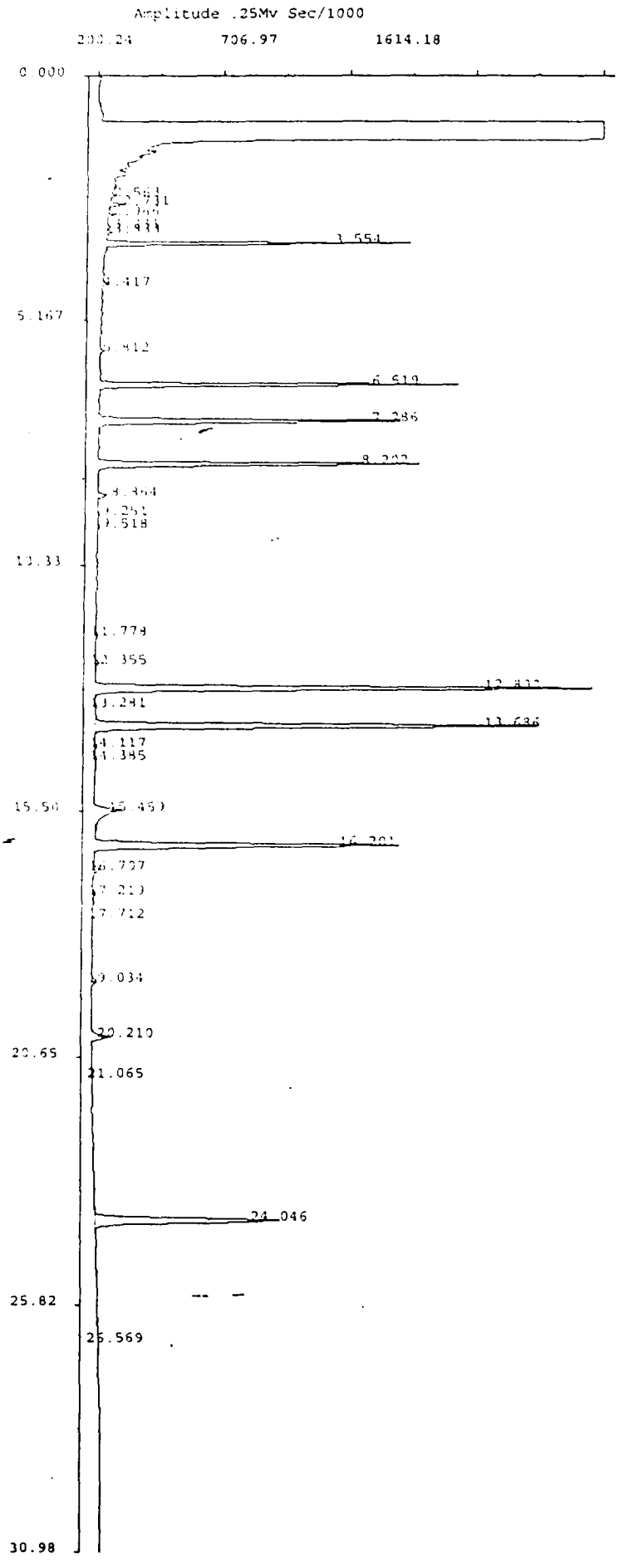
100899/5

Total Area: 4357030

Method File: /DATA/METHOD/QR19P20SEP.MTH
Format File: /DATA/FORMAT/DUAL_COL.FMT
Report Time: 1204 08Oct1999



Ceimic Corporation Pest/PCB Report

Sample Name : PLCS03
Lab Id : P0915-LCS7
Inst Id & Col : AD20_1, DB1701, 0.53 mm
Volume Injected: 1.0 uL Multilevel : False
Peak Processor : Genie Application : Loop
Calculation : ExternalSTD Quantitation: AreaUnits
Result File : /DATA/RESULT/R20P27SEP012.RES
Inject Time : 1700 27Sep1999
Run Status : RunStatusOK

100899/5

Pk #	RT	Area	Code	MASSNG	Name
1	2.56	6111	BB	.001	
2	2.73	30755	BB	.007	
3	2.97	12851	BB	.003	
4	3.23	7132	BB	.002	
5	3.33	8273	BB	.002	
6	3.55	639825	BB	.029	TCX
7	4.42	10851	BB	.002	
8	5.81	7796	BB	.002	
9	6.52	951195	BS	.039	GAMMA-BHC
10	7.29	1046608	BB	.040	HEPTACHLOR
11	8.20	1026087	BB	.044	ALDRIN
12	8.86	32465	BB	.007	
13	9.25	4472	BB	.001	
14	9.52	6920	BB	.002	
15	11.78	7161	BB	.002	
16	12.36	11843	BB	.001	4,4'-DDE
17	12.89	1965609	BS	.087	DIELDRIN
18	13.28	4177	BB	.001	
19	13.69	1833008	BB	.113	ENDRIN
20	14.12	9673	BB	.002	
21	14.38	12111	BB	.003	
22	15.46	187189	BB	.012	4,4'-DDD
23	16.20	1217040	BB	.114	4,4'-DDT
24	16.71	26073	BB	.006	
25	17.22	22538	BB	.002	ENDRIN ALDEH
26	17.71	4370	BB	.001	
27	19.03	21507	BB	.005	
28	20.21	73996	BB	.005	ENDRIN KETONE
29	21.06	4134	BB	.001	
30	24.05	885848	BB	.047	DCB
31	26.57	9691	BB	.002	

Total Area: 10087308

Method File: /DATA/METHOD/QR20P20SEP.MTH
Format File: /DATA/FORMAT/DUAL_COL.FMT
Report Time: 1209 08Oct1999

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PLCS04

Lab Name: CEIMIC CORP Contract: ROY WESTON

Lab Code: CEIMIC Case No.: 0291F SAS No.: _____ SDG No.: D00064

Matrix: (soil/water) WATER Lab Sample ID: P0915-LCS9

Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N) ___ Date Received: 09/15/99

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 09/15/99

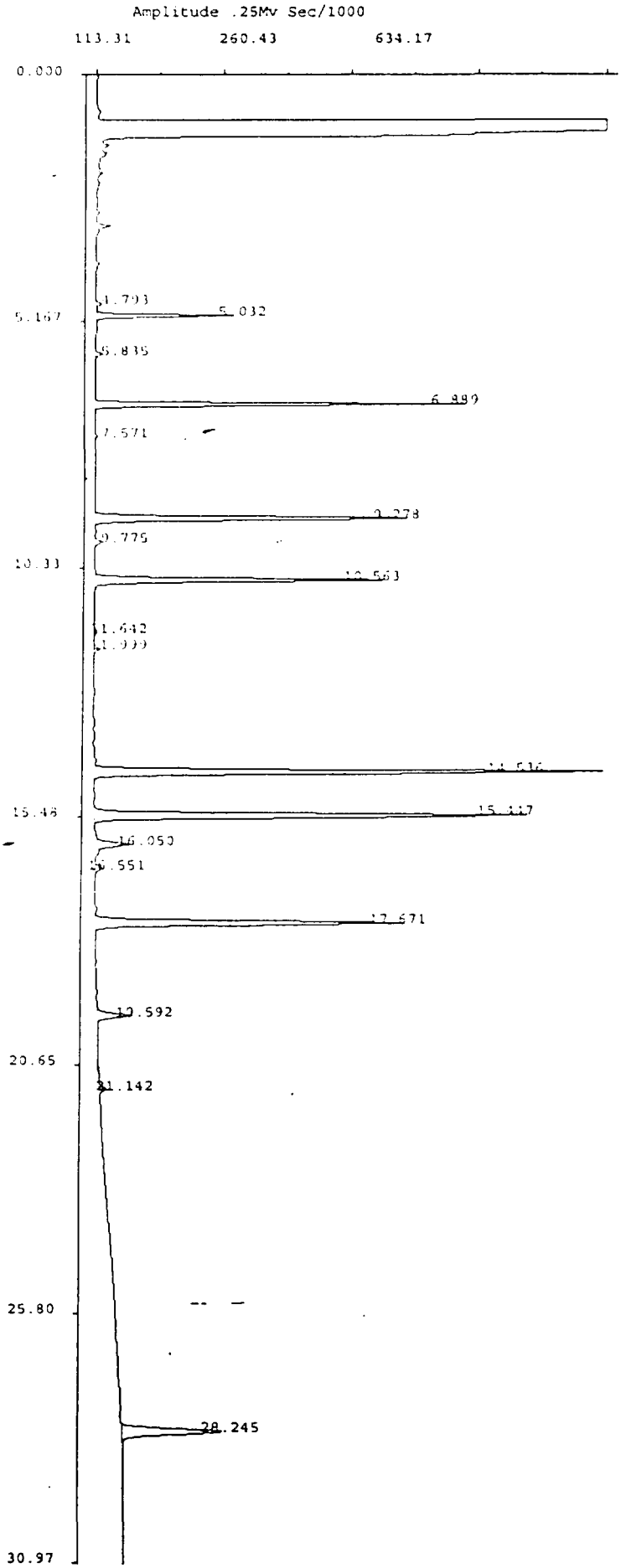
Concentrated Extract Volume: 10000 (uL) Date Analyzed: 09/21/99

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.38	
76-44-8	Heptachlor	0.35	
309-00-2	Aldrin	0.40	
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.76	
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.93	
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.83	
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

1406



Ceimic Corporation Pest/PCB Report

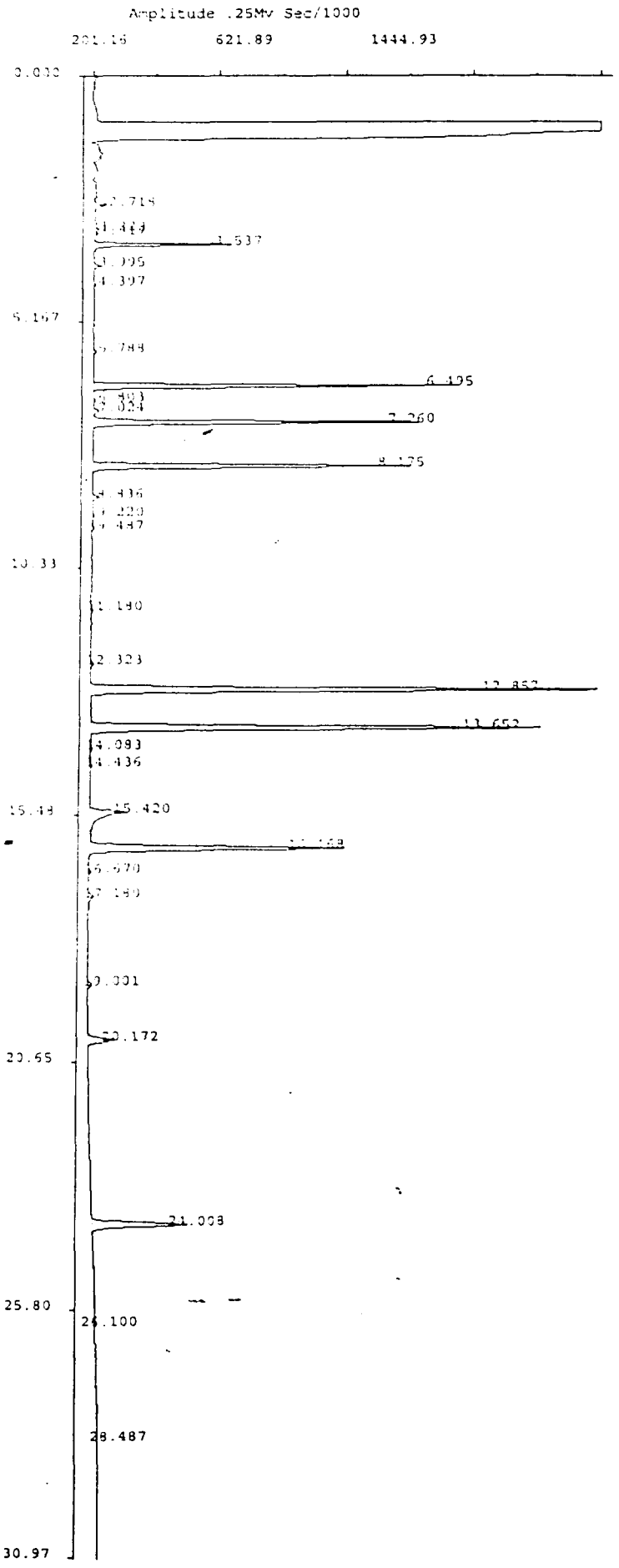
Sample Name : PLCS04
Lab Id : P0915-LCS9
Inst Id & Col : AD19_1, DB5, 0.53mm
Volume Injected: 1.0 uL Multilevel : False
Peak Processor : Genie Application : Loop
Calculation : ExternalSTD Quantitation: AreaUnits
Result File : /CEIMIC21/R19P20SEP024.RES
Inject Time : 0533 21Sep1999
Run Status : RunStatusOK
EndOffBaseline

100899/3

Pk #	RT	Area	Code	MASSNG	Name
1	4.79	5288	BB	.001	
2	5.03	129893	BB	.014	TCX
3	5.83	8606	BB	.002	
4	6.89	400324	BB	.040	GAMMA-BHC
5	7.57	5306	BB	.001	
6	9.28	416040	BB	.035	HEPTACHLOR
7	9.77	9389	BB	.002	
8	10.56	384924	BB	.041	ALDRIN
9	11.64	4222	BB	.001	100899/3
10	12.00	7956	BB	.001	H. EPOXIDE
11	14.54	753417	BB	.079	DIELDRIN
12	15.45	675806	BB	.099	ENDRIN
13	16.05	51601	BB	.007	4,4'-DDD 100899/3
14	16.55	9944	BB	.002	ENDRIN ALDEH
15	17.67	491469	BB	.083	4,4'-DDT
16	19.59	59556	BB	.007	ENDRIN KETONE
17	21.14	7525	BB	.002	100899/3
18	28.25	219040	BB	.019	DCB

Total Area: 3640304

Method File: /DATA/METHOD/QR19P20SEP.MTH
Format File: /DATA/FORMAT/DUAL_COL.FMT
Report Time: 1140 08Oct1999



Ceimic Corporation Pest/PCB Report

Sample Name : PLCS04
Lab Id : P0915-LCS9
Inst Id & Col : AD20_1, DB1701, 0.53 mm
Volume Injected: 1.0 uL Multilevel : False
Peak Processor : Genie Application : Loop
Calculation : ExternalSTD Quantitation: AreaUnits
Result File : /CEIMIC21/R20P20SEP024.RES
Inject Time : 0533 21Sep1999
Run Status : RunStatusOK

100899/3

Pk #	RT	Area	Code	MASSNG	Name
1	2.72	30830	BB	.007	
2	3.22	5572	BB	.001	
3	3.32	5620	BB	.001	
4	3.54	322170	BB	.015	TCX
5	4.00	16772	BB	.004	
6	4.40	4234	BB	.001	
7	5.79	7311	BB	.002	
8	6.50	916856	BB	.038	GAMMA-BHC
9	6.80	4559	BB	.001	
10	7.02	14820	BB	.003	
11	7.26	902295	BB	.035	HEPTACHLOR
12	8.17	924220	BB	.040	ALDRIN
13	8.84	20877	BB	.005	
14	9.22	4329	BB	.001	
15	9.49	6828	BB	.002	
16	11.18	7247	BB	.002	
17	12.32	9708	BB	.000	4,4'-DDE
18	12.86	1704266	BB	.076	DIELDRIN
19	13.65	1522836	BB	.094	ENDRIN
20	14.08	6378	BB	.001	
21	14.44	8253	BB	.002	
22	15.42	203203	BB	.013	4,4'-DDD
23	16.17	888832	BB	.083	4,4'-DDT
24	16.67	6788	BB	.001	
25	17.18	27645	BB	.003	ENDRIN ALDEH
26	19.00	18116	BB	.004	
27	20.17	104013	BB	.007	ENDRIN KETONE
28	24.01	389736	BB	.021	DCB
29	26.10	10630	BB	.002	
30	28.49	5873	BB	.001	

Total Area: 8100822

Method File: /DATA/METHOD/QR20P20SEP.MTH
Format File: /DATA/FORMAT/DUAL_COL.FMT
Report Time: 1142 08Oct1999

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

D00064MS

Lab Name: CEIMIC CORP Contract: ROY WESTON

Lab Code: CEIMIC Case No.: 0291F SAS No.: _____ SDG No.: D00064

Matrix: (soil/water) WATER Lab Sample ID: 990802-01MS

Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N) ___ Date Received: 09/10/99

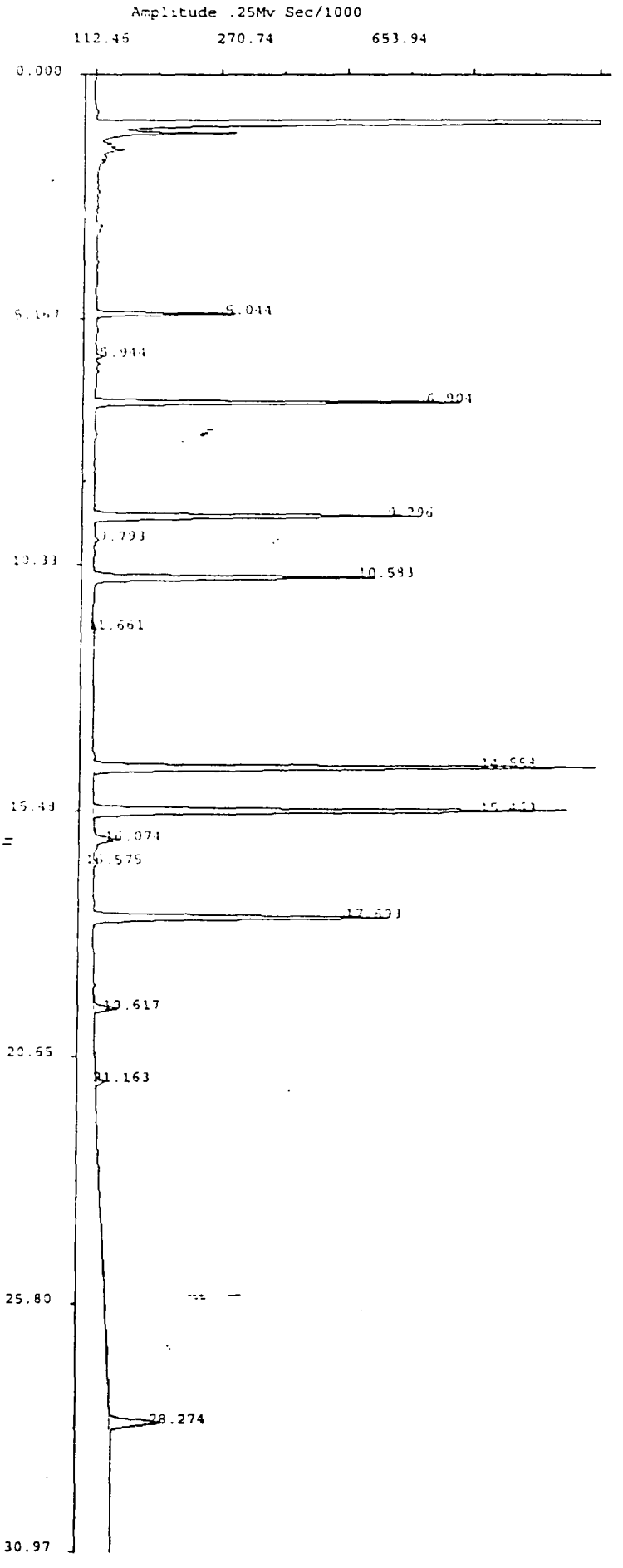
Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 09/14/99

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 09/27/99

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.42	
76-44-8	Heptachlor	0.38	
309-00-2	Aldrin	0.45	
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.84	
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	1.1	
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.82	
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U



Ceimic Corporation Pest/PCB Report

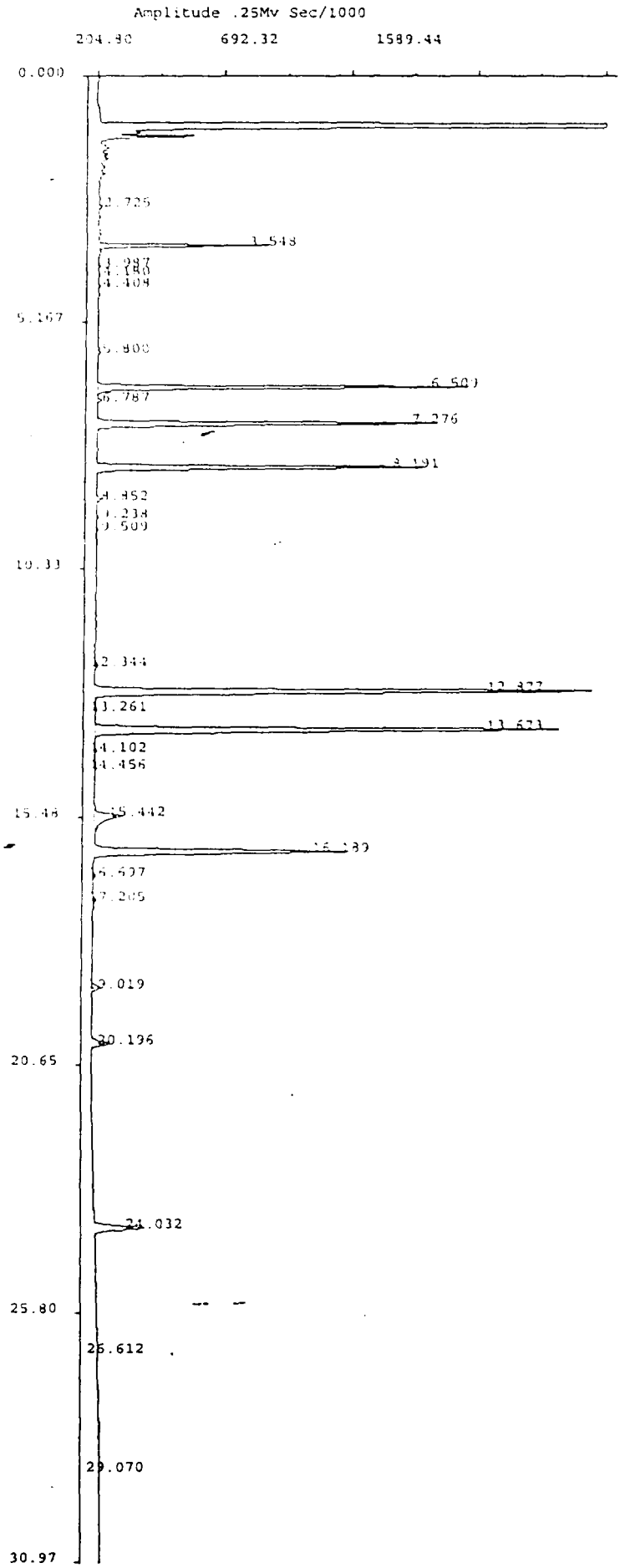
Sample Name : D00064MS
Lab Id : 990802-01MS
Inst Id & Col : AD19_1, DB5, 0.53mm
Volume Injected: 1.0 uL Multilevel : False
Peak Processor : Genie Application : Loop
Calculation : ExternalSTD Quantitation: AreaUnits
Result File : /DATA/RESULT/R19P27SEP021.RES
Inject Time : 2227 27Sep1999
Run Status : RunStatusOK

100877/5

Pk #	RT	Area	Code	MASSNG	Name
1	5.04	141574	BB	.016	TCX
2	5.94	7580	BB	.001	ALPHA-BHC
3	6.90	433125	BB	.043	GAMMA-BHC
4	9.30	451963	BB	.038	HEPTACHLOR
5	9.79	6078	BB	.001	
6	10.58	420244	BB	.045	ALDRIN
7	11.66	4872	BB	.001	
8	14.56	802988	BB	.084	DIELDRIN
9	15.47	748142	BB	.109	ENDRIN
10	16.07	40204	BB	.006	4,4'-DDD
11	16.57	5151	BB	.001	ENDRIN ALDEH
12	17.69	486395	BB	.082	4,4'-DDT
13	19.62	43040	BB	.005	ENDRIN KETONE
14	21.16	12978	BB	.003	
15	28.27	159983	BB	.014	DCB

Total Area: 3764316

Method File: /DATA/METHOD/QR19P20SEP.MTH
Format File: /DATA/FORMAT/DUAL_COL.FMT
Report Time: 1215 08Oct1999



Ceimic Corporation Pest/PCB Report

Sample Name : D00064MS
Lab Id : 990802-01MS
Inst Id & Col : AD20_1, DB1701, 0.53 mm
Volume Injected: 1.0 uL Multilevel : False
Peak Processor : Genie Application : Loop
Calculation : ExternalSTD Quantitation: AreaUnits
Result File : /DATA/RESULT/R20P27SEP021.RES
Inject Time : 2227 27Sep1999
Run Status : RunStatusOK

100899/S

Pk #	RT	Area	Code	MASSNG	Name
1	2.72	9486	BB	.002	
2	3.55	345317	BB	.016	TCX
3	3.99	4061	BB	.001	
4	4.18	4819	BB	.001	
5	4.41	5253	BB	.001	
6	5.80	6777	BB	.001	
7	6.51	1013607	BB	.042	GAMMA-BHC
8	6.79	10904	BB	.002	
9	7.28	1077666	BB	.041	HEPTACHLOR
10	8.19	1052641	BB	.045	ALDRIN
11	8.85	16948	BB	.004	
12	9.24	4576	BB	.001	
13	9.51	7196	BB	.002	
14	12.34	10251	BB	.001	4,4'-DDE
15	12.88	1903243	BS	.084	DIELDRIN
16	13.26	7931	BB	.002	
17	13.67	1763821	BB	.108	ENDRIN
18	14.10	6268	BB	.001	
19	14.46	8552	BB	.002	
20	15.44	171454	BB	.011	4,4'-DDD
21	16.19	983523	BB	.092	4,4'-DDT
22	16.70	7997	BB	.002	
23	17.20	20330	BB	.002	ENDRIN ALDEH
24	19.02	37992	BB	.008	
25	20.20	74687	BB	.005	ENDRIN KETONE
26	24.03	218555	BB	.011	DCB
27	26.61	6700	BB	.001	
28	29.07	15553	BB	.003	

100899/S

100899/S

100899/S

Total Area: 8796104

Method File: /DATA/METHOD/QR20P20SEP.MTH
Format File: /DATA/FORMAT/DUAL_COL.FMT
Report Time: 1224 08Oct1999

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

D00064MSD

Lab Name: CEIMIC CORP Contract: ROY WESTON

Lab Code: CEIMIC Case No.: 0291F SAS No.: _____ SDG No.: D00064

Matrix: (soil/water) WATER Lab Sample ID: 990802-01MSD

Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N) ___ Date Received: 09/10/99

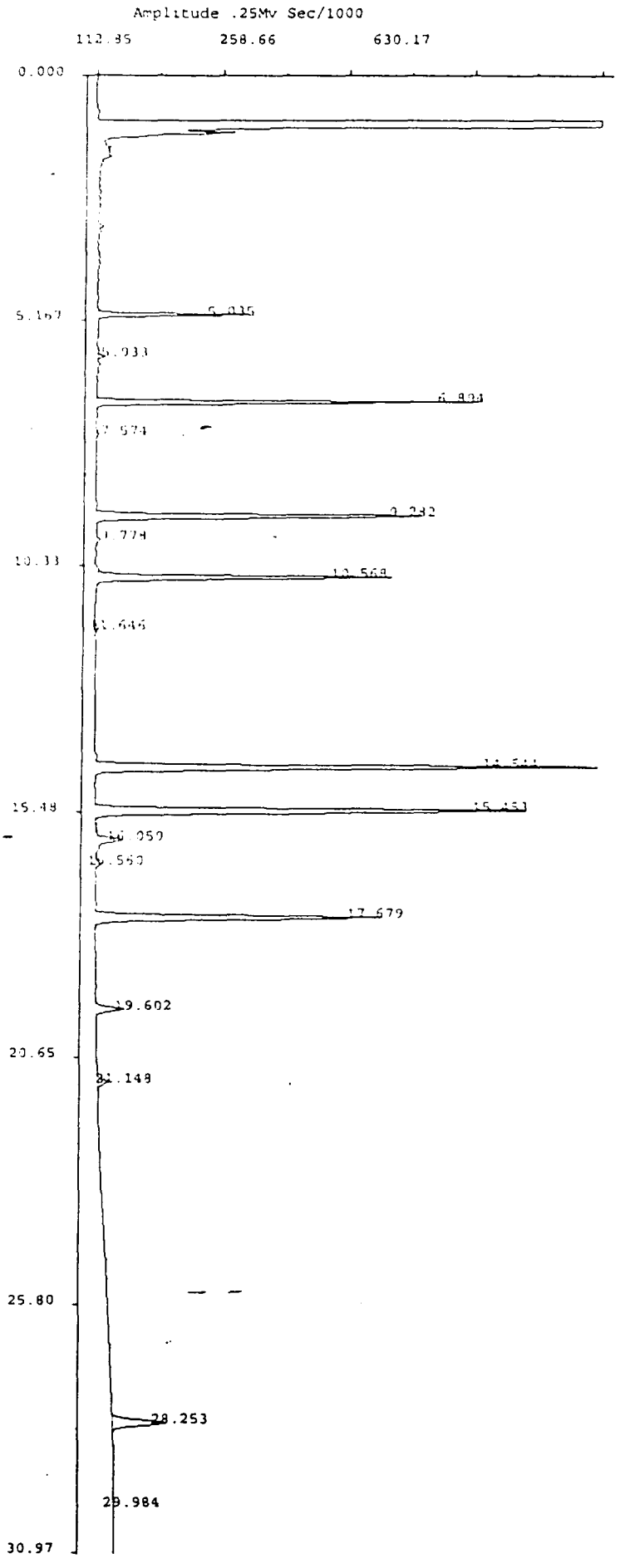
Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 09/14/99

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 09/28/99

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.40	
76-44-8	Heptachlor	0.36	
309-00-2	Aldrin	0.41	
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.79	
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	1.0	
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.77	
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U



Ceimic Corporation Pest/PCB Report

Sample Name : D00064MSD
Lab Id : 990802-01MSD
Inst Id & Col : AD19_1, DB5, 0.53mm
Volume Injected: 1.0 uL Multilevel : False
Peak Processor : Genie Application : Loop
Calculation : ExternalSTD Quantitation: AreaUnits
Result File : /DATA/RESULT/R19P27SEP028.RES
Inject Time : 0234 28Sep1999
Run Status : RunStatusOK

100899/B

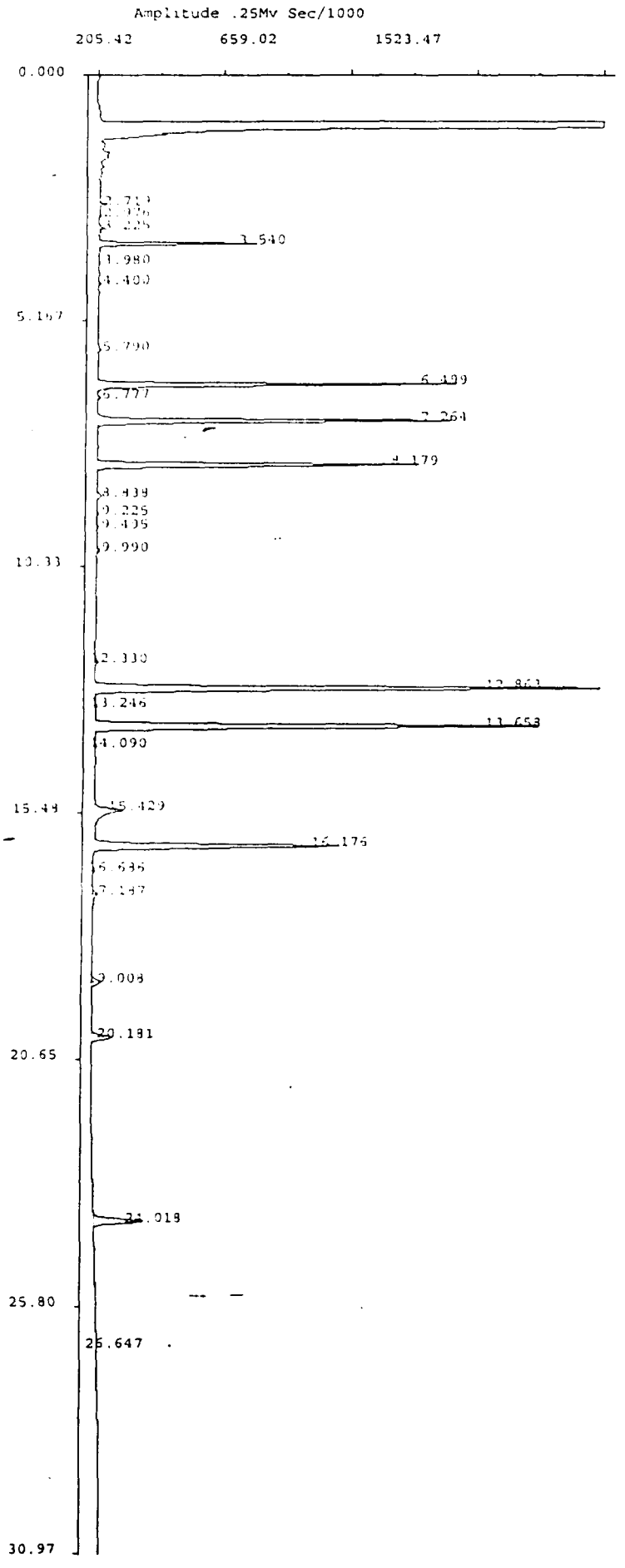
Pk #	RT	Area	Code	MASSNG	Name
1	5.04	141102	BB	.015	TCX
2	5.93	6771	BB	.001	
3	6.89	412555	BB	.041	GAMMA-BHC
4	7.57	4114	BB	.001	
5	9.28	429052	BB	.036	HEPTACHLOR
6	9.78	5869	BB	.001	
7	10.57	388447	BB	.041	ALDRIN
8	11.65	4601	BB	.001	
9	14.54	755919	BB	.079	DIELDRIN
10	15.45	689803	BB	.101	ENDRIN
11	16.06	39367	BB	.005	4,4'-DDD
12	16.56	5728	BB	.001	ENDRIN ALDEH
13	17.68	455930	BB	.077	4,4'-DDT
14	19.60	48429	BB	.005	ENDRIN KETONE
15	21.15	18946	BB	.004	
16	28.25	117426	BB	.010	DCB
17	29.98	4919	BB	.001	

100899/B

100899/B

Total Area: 3528978

Method File: /DATA/METHOD/QR19P20SEP.MTH
Format File: /DATA/FORMAT/DUAL_COL.FMT
Report Time: 1229 08Oct1999



Ceimic Corporation Pest/PCB Report

Sample Name : D00064MSD
Lab Id : 990802-01MSD
Inst Id & Col : AD20_1, DB1701, 0.53 mm
Volume Injected: 1.0 uL Multilevel : False
Peak Processor : Genie Application : Loop
Calculation : ExternalSTD Quantitation: AreaUnits
Result File : /DATA/RESULT/R20P27SEP028.RES
Inject Time : 0234 28Sep1999
Run Status : UserAbortedRun

100899/3

Pk #	RT	Area	Code	MASSNG	Name
1	2.72	12543	BB	.003	
2	2.98	4190	BB	.001	
3	3.22	5839	BB	.001	
4	3.54	348105	BB	.016	TCX
5	3.98	4063	BB	.001	
6	4.40	4602	BB	.001	
7	5.79	6461	BB	.001	
8	6.50	978185	BS	.040	GAMMA-BHC
9	6.78	7317	BB	.002	
10	7.26	1022798	BB	.039	HEPTACHLOR
11	8.18	996639	BB	.043	ALDRIN
12	8.84	16689	BB	.004	
13	9.22	4475	BB	.001	
14	9.49	7297	BB	.002	
15	9.99	9172	BB	.002	
16	12.33	9896	BB	.000	4,4'-DDE
17	12.86	1804176	BB	.080	DIELDRIN
18	13.25	7357	BB	.002	
19	13.66	1637321	BB	.101	ENDRIN
20	14.09	5759	BB	.001	
21	15.43	160884	BB	.010	4,4'-DDD
22	16.18	918977	BB	.086	4,4'-DDT
23	16.69	6476	BB	.001	
24	17.19	25763	BB	.002	ENDRIN ALDEH
25	19.01	43308	BB	.010	
26	20.18	82089	BB	.006	ENDRIN KETONE
27	24.02	218286	BB	.011	DCB
28	26.65	4836	BB	.001	

Total Area: 8353702

Method File: /DATA/METHOD/QR20P20SEP.MTH
Format File: /DATA/FORMAT/DUAL_COL.FMT
Report Time: 1234 08Oct1999

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

D00068MS

Lab Name: CEIMIC CORP Contract: ROY WESTON

Lab Code: CEIMIC Case No.: 0291F SAS No.: _____ SDG No.: D00064

Matrix: (soil/water) SOIL Lab Sample ID: 990802-05MS

Sample wt/vol: 30.3 (g/mL) G Lab File ID: _____

% Moisture: 33 decanted: (Y/N) N Date Received: 09/10/99

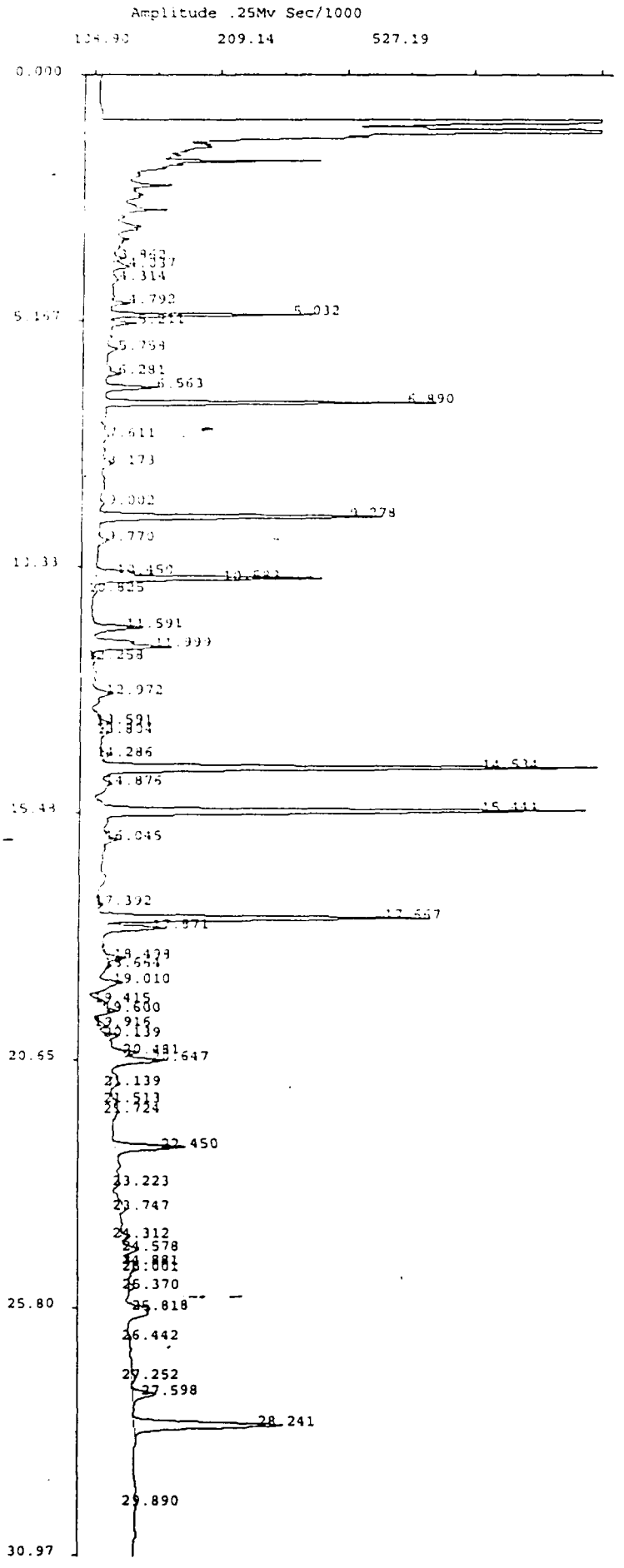
Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 09/14/99

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 09/28/99

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.4 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.5	U
319-85-7	beta-BHC	2.5	U
319-86-8	delta-BHC	2.5	U
58-89-9	gamma-BHC (Lindane)	13	
76-44-8	Heptachlor	13	
309-00-2	Aldrin	13	
1024-57-3	Heptachlor epoxide	2.5	U
959-98-8	Endosulfan I	2.5	U
60-57-1	Dieldrin	30	
72-55-9	4,4'-DDE	4.9	U
72-20-8	Endrin	42	
33213-65-9	Endosulfan II	4.9	U
72-54-8	4,4'-DDD	4.9	U
1031-07-8	Endosulfan sulfate	4.9	U
50-29-3	4,4'-DDT	33	P
72-43-5	Methoxychlor	25	U
53494-70-5	Endrin ketone	4.9	U
7421-93-4	Endrin aldehyde	4.9	U
5103-71-9	alpha-Chlordane	2.5	U
5103-74-2	gamma-Chlordane	2.5	U
8001-35-2	Toxaphene	250	U
12674-11-2	Aroclor-1016	49	U
11104-28-2	Aroclor-1221	99	U
11141-16-5	Aroclor-1232	49	U
53469-21-9	Aroclor-1242	49	U
12672-29-6	Aroclor-1248	49	U
11097-69-1	Aroclor-1254	49	U
11096-82-5	Aroclor-1260	49	U



Ceimic Corporation Pest/PCB Report

Sample Name : D00068MS
Lab Id : 990802-05MS
Inst Id & Col : AD19_1, DB5, 0.53mm
Volume Injected: 1.0 uL Multilevel : False
Peak Processor : Genie Application : Loop
Calculation : ExternalSTD Quantitation: AreaUnits
Result File : /DATA/RESULT/R19P27SEP037.RES
Inject Time : 0750 28Sep1999
Run Status : RunStatusOK
EndOffBaseline
SpecialInteg

100899/S

Pk #	RT	Area	Code	MASSNG	Name
1	3.86	9360	PV	.002	
2	4.04	20477	VB	.005	
3	4.31	8159	BB	.002	
4	4.79	14752	BB	.003	
5	5.03	153170	BB	.017	TCX
6	5.21	21219	BB	.005	
7	5.76	11626	BB	.003	
8	6.23	10065	BB	.002	
9	6.56	56588	BB	.012	
10	6.89	288185	BB	.029	GAMMA-BHC
11	7.61	18343	BB	.004	
12	8.17	14821	BB	.003	
13	9.00	6711	BB	.001	
14	9.28	304612	BB	.026	HEPTACHLOR
15	9.77	14654	BB	.003	
16	10.45	42246	FF	.009	
17	10.58	252465	FF	.027	ALDRIN
18	10.82	4557	BB	.001	
19	11.59	66117	BB	.015	
20	12.00	44421	BB	.004	H. EPOXIDE
21	12.26	7164	BB	.002	
22	12.97	23551	BB	.002	G. CHLORDANE
23	13.59	19790	BB	.002	A. CHLORDANE
24	13.80	7690	BB	.002	
25	14.29	9078	BB	.001	4,4'-DDE
26	14.53	591333	BB	.062	DIELDRIN
27	14.88	26693	BB	.006	
28	15.44	605134	BB	.088	ENDRIN
29	16.05	19607	BB	.003	4,4'-DDD
30	17.39	6351	BB	.001	
31	17.67	395680	BB	.067	4,4'-DDT
32	17.87	74778	BB	.016	
33	18.50	15923	BB	.003	
34	18.66	6368	BB	.001	
35	19.01	55326	BB	.012	
36	19.41	7475	BB	.002	
37	19.60	23764	BB	.003	ENDRIN KETONE
38	19.92	12216	BB	.003	
39	20.14	15559	BB	.004	METHOXYCHLOR
40	20.48	17704	BB	.004	

100899/S

100899/S

100899/S

100899/S

Ceimic Corporation Pest/PCB Report

Sample Name : D00068MS
Lab Id : 990802-05MS
Inst Id & Col : AD19_1, DB5, 0.53mm
Volume Injected: 1.0 uL Multilevel : False
Peak Processor : Genie Application : Loop
Calculation : ExternalSTD Quantitation: AreaUnits
Result File : /DATA/RESULT/R19P27SEP037.RES
Inject Time : 0750 28Sep1999
Run Status : RunStatusOK
EndOffBaseline
SpecialInteg

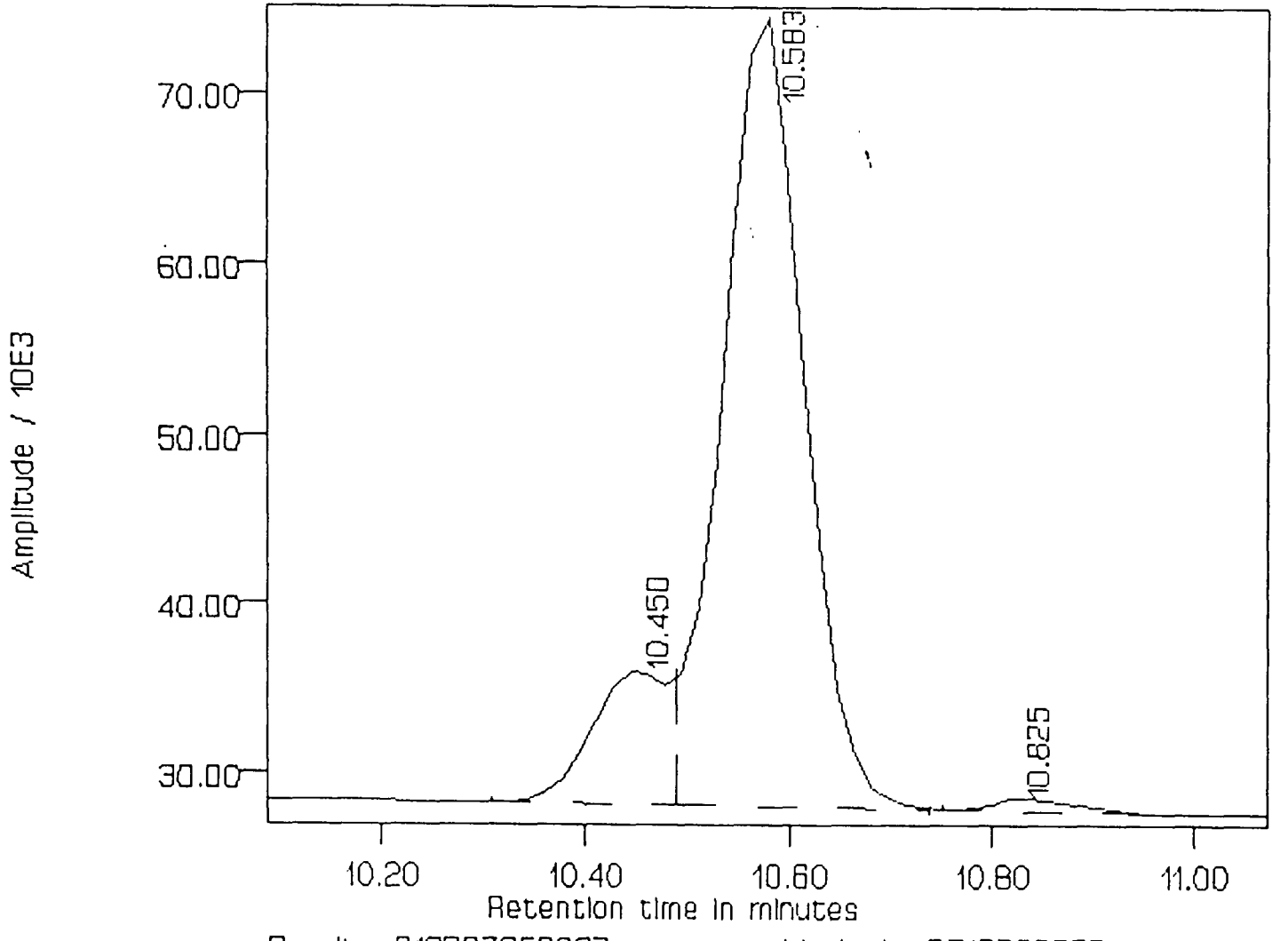
100899/3

Pk #	RT	Area	Code	MASSNG	Name
41	20.65	55911	BB	.012	
42	21.14	22491	BB	.005	
43	21.51	4914	BB	.001	
44	21.72	8963	BB	.002	
45	22.45	109466	BB	.024	
46	23.22	6017	BB	.001	
47	23.75	26716	BB	.006	
48	24.31	10525	BB	.002	
49	24.58	23974	BB	.005	
50	24.88	4529	BB	.001	
51	25.00	4353	BB	.001	
52	25.37	8851	BB	.002	
53	25.82	8026	BB	.002	
54	26.44	4052	BB	.001	
55	27.25	6991	BB	.002	
56	27.60	42381	BB	.009	
57	28.24	267728	BB	.024	DCB
58	29.89	4298	BB	.001	

Total Area: 3923919

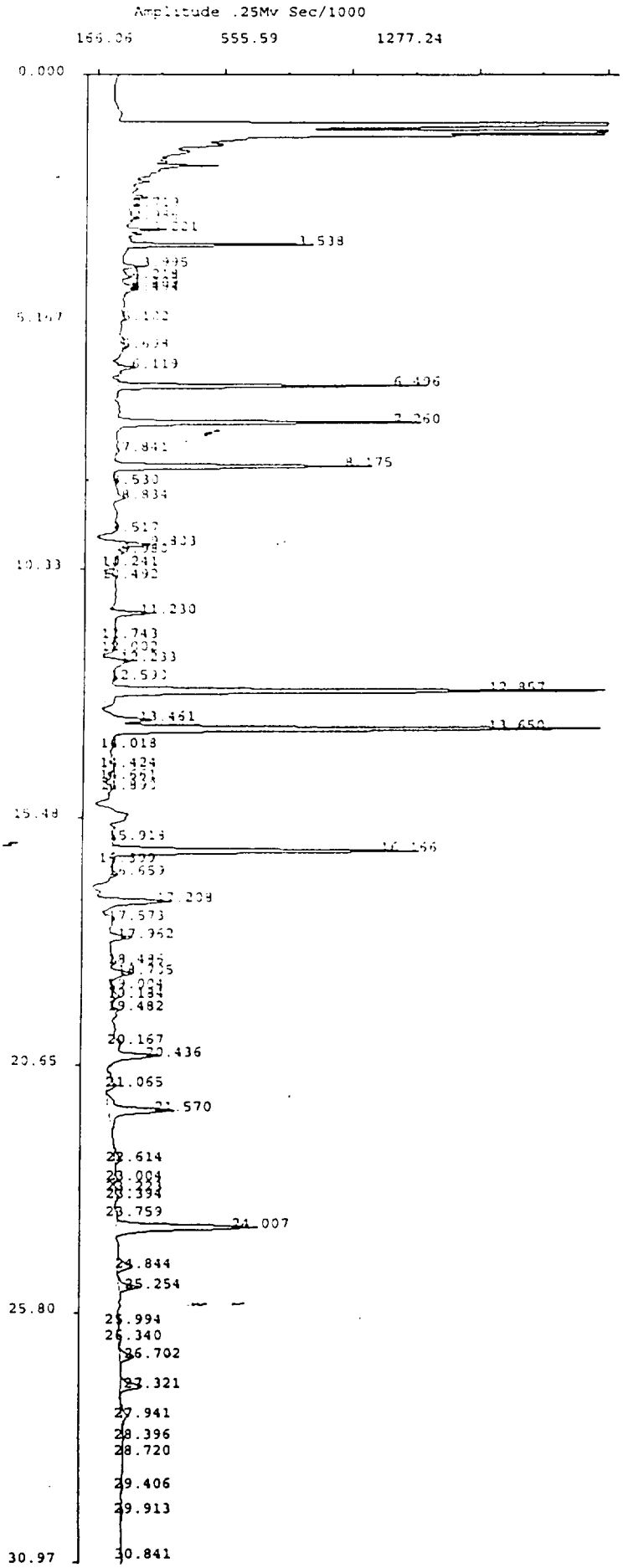
Method File: /DATA/METHOD/QR19P20SEP.MTH
Format File: /DATA/FORMAT/DUAL_COL.FMT
Report Time: 1414 08Oct1999

Sample : D00068MS Injected : TUE SEP 28, 1999 7:50:25 AM



Result : R19P27SEP037 Method : QR19P20SEP

1478



Ceimic Corporation Pest/PCB Report

Sample Name : D00068MS
Lab Id : 990802-05MS
Inst Id & Col : AD20_1, DB1701, 0.53 mm
Volume Injected: 1.0 uL Multilevel : False
Peak Processor : Genie Application : Loop
Calculation : ExternalSTD Quantitation: AreaUnits
Result File : /DATA/RESULT/R20P27SEP037.RES
Inject Time : 0750 28Sep1999
Run Status : RunStatusOK
EndOffBaseline

160899/3

Pk #	RT	Area	Code	MASSNG	Name
1	2.72	16738	BB	.004	
2	2.99	14915	BB	.003	
3	3.22	56568	BB	.012	
4	3.54	363152	BB	.017	TCX
5	3.99	43127	BB	.009	
6	4.22	23635	BB	.005	
7	4.41	19597	BB	.004	
8	4.49	16121	BB	.004	
9	5.10	8390	BB	.002	
10	5.70	13379	BB	.003	
11	6.12	31481	BB	.007	
12	6.50	664973	BB	.027	GAMMA-BHC
13	7.26	764313	BB	.029	HEPTACHLOR
14	7.84	10396	BB	.002	
15	8.17	670216	BB	.029	ALDRIN
16	8.53	5489	BB	.001	
17	8.83	27214	BB	.006	
18	9.52	23510	BB	.005	
19	9.80	146683	BB	.032	
20	9.98	16223	BB	.004	
21	10.24	21365	BB	.005	
22	10.49	27824	BB	.001	H. EPOXIDE
23	11.23	98503	BB	.022	
24	11.74	5143	BB	.001	
25	12.00	34522	BB	.008	
26	12.23	119312	BB	.026	
27	12.59	10514	BB	.002	
28	12.86	1536481	BB	.068	DIELDRIN
29	13.46	84664	BB	.019	
30	13.65	1380686	BB	.085	ENDRIN
31	14.02	6443	BB	.001	
32	14.42	27221	BB	.006	
33	14.66	9593	BB	.002	
34	14.89	22498	BB	.005	
35	15.92	14057	BB	.003	
36	16.17	939931	BB	.088	4,4'-DDT
37	16.40	5308	BB	.001	
38	16.66	26703	BB	.006	
39	17.21	294022	BB	.027	ENDRIN ALDEH
40	17.57	55883	BB	.012	
41	17.96	72145	BB	.016	

160899/3

160899/3

1479

Sample Name : D00068MS
Lab Id : 990802-05MS
Inst Id & Col : AD20_1, DB1701, 0.53 mm
Volume Injected: 1.0 uL Multilevel : False
Peak Processor : Genie Application : Loop
Calculation : ExternalSTD Quantitation: AreaUnits
Result File : /DATA/RESULT/R20P27SEP037.RES
Inject Time : 0750 28Sep1999
Run Status : RunStatusOK
EndOffBaseline

100899/3

Pk #	RT	Area	Code	MASSNG	Name
42	18.49	28006	BB	.002	ENDO. SULFAT
43	18.71	93894	BB	.021	
44	19.00	9077	BB	.002	
45	19.18	27097	BB	.006	
46	19.48	10579	BB	.002	
47	20.17	10966	BB	.001	ENDRIN KETONE
48	20.44	184302	BB	.041	
49	21.06	69513	BB	.015	
50	21.57	340118	BB	.075	
51	22.61	38402	BB	.008	
52	23.00	11164	BB	.002	
53	23.22	5554	BB	.001	
54	23.39	14083	BB	.003	
55	23.76	8185	BB	.002	
56	24.01	579746	BB	.030	DCB
57	24.84	72755	BB	.016	
58	25.25	78911	BB	.017	
59	25.99	17895	BB	.004	
60	26.34	14397	BB	.003	
61	26.70	70022	BB	.015	
62	27.32	99693	BB	.022	
63	27.94	43142	BB	.009	
64	28.40	4806	BB	.001	
65	28.72	5715	BB	.001	
66	29.41	7481	BB	.002	
67	29.91	9067	BB	.002	
68	30.84	4727	BB	.001	

Total Area: 9588242

Method File: /DATA/METHOD/QR20P20SEP.MTH
Format File: /DATA/FORMAT/DUAL_COL.FMT
Report Time: 1250 08Oct1999

100899/3

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

D00068MSD

Lab Name: CEIMIC CORP Contract: ROY WESTON

Lab Code: CEIMIC Case No.: 0291F SAS No.: _____ SDG No.: D00064

Matrix: (soil/water) SOIL Lab Sample ID: 990802-05MSD

Sample wt/vol: 30.3 (g/mL) G Lab File ID: _____

% Moisture: 33 decanted: (Y/N) N Date Received: 09/10/99

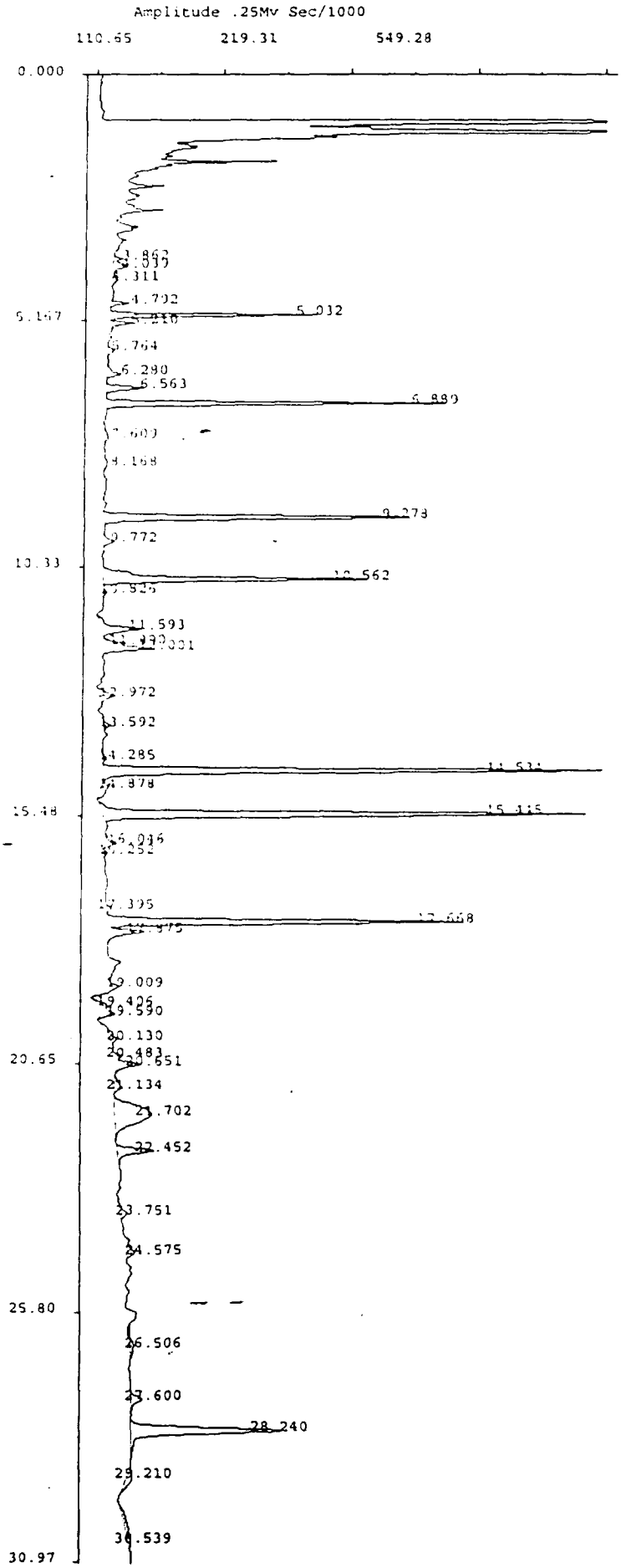
Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 09/14/99

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 09/28/99

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.4 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.5	U
319-85-7	beta-BHC	2.5	U
319-86-8	delta-BHC	2.5	U
58-89-9	gamma-BHC (Lindane)	15	
76-44-8	Heptachlor	14	
309-00-2	Aldrin	17	
1024-57-3	Heptachlor epoxide	2.5	U
959-98-8	Endosulfan I	2.5	U
60-57-1	Dieldrin	32	
72-55-9	4,4'-DDE	4.9	U
72-20-8	Endrin	44	
33213-65-9	Endosulfan II	4.9	U
72-54-8	4,4'-DDD	4.9	U
1031-07-8	Endosulfan sulfate	4.9	U
50-29-3	4,4'-DDT	38	
72-43-5	Methoxychlor	25	U
53494-70-5	Endrin ketone	4.9	U
7421-93-4	Endrin aldehyde	4.9	U
5103-71-9	alpha-Chlordane	2.5	U
5103-74-2	gamma-Chlordane	2.5	U
8001-35-2	Toxaphene	250	U
12674-11-2	Aroclor-1016	49	U
11104-28-2	Aroclor-1221	99	U
11141-16-5	Aroclor-1232	49	U
53469-21-9	Aroclor-1242	49	U
12672-29-6	Aroclor-1248	49	U
11097-69-1	Aroclor-1254	49	U
11096-82-5	Aroclor-1260	49	U



Celmic Corporation Pest/PCB Report

Sample Name : D00068MSD
Lab Id : 990802-05MSD
Inst Id & Col : AD19_1, DB5, 0.53mm
Volume Injected: 1.0 uL Multilevel : False
Peak Processor : Genie Application : Loop
Calculation : ExternalSTD Quantitation: AreaUnits
Result File : /DATA/RESULT/R19P27SEP038.RES
Inject Time : 0825 28Sep1999
Run Status : RunStatusOK
EndOffBaseline

100899/3

Pk #	RT	Area	Code	MASSNG	Name
1	3.86	7985	PV	.002	
2	4.04	23671	VB	.005	
3	4.31	7178	BB	.002	
4	4.79	13569	BB	.003	
5	5.03	166413	BB	.018	TCX
6	5.21	19496	BB	.004	
7	5.76	9120	BB	.002	
8	6.28	19106	BB	.004	
9	6.56	44282	BB	.010	
10	6.89	312330	BB	.031	GAMMA-BHC
11	7.61	13317	BB	.003	
12	8.17	6694	BB	.001	
13	9.28	345551	BB	.029	HEPTACHLOR
14	9.77	15594	BB	.003	
15	10.56	338069	BB	.036	ALDRIN
16	10.83	4953	BB	.001	
17	11.59	71644	BB	.016	
18	11.89	7350	BB	.002	
19	12.00	34362	BB	.003	H. EPOXIDE
20	12.97	28045	BB	.003	G. CHLORDANE
21	13.59	7587	BB	.001	A. CHLORDANE
22	14.29	5810	BB	.001	4,4'-DDE
23	14.53	624410	BB	.065	DIELDRIN
24	14.88	21692	BB	.005	
25	15.45	638588	BB	.093	ENDRIN
26	16.05	18255	BB	.003	4,4'-DDD
27	16.25	4017	BB	.001	
28	17.39	5260	BB	.001	
29	17.67	461420	BB	.078	4,4'-DDT
30	17.87	51694	BB	.011	
31	19.01	45736	BB	.010	
32	19.41	8697	BB	.002	
33	19.59	19468	BB	.002	ENDRIN KETONE
34	20.13	24921	BB	.006	METHOXYCHLOR
35	20.48	6067	BB	.001	
36	20.65	33876	BB	.007	
37	21.13	15646	BB	.003	
38	21.70	198923	BB	.044	
39	22.45	62862	BB	.014	
40	23.75	16093	BB	.004	
41	24.57	14277	BB	.003	

100899/3

100899/3

100899/3

1482

Ceimic Corporation Pest/PCB Report

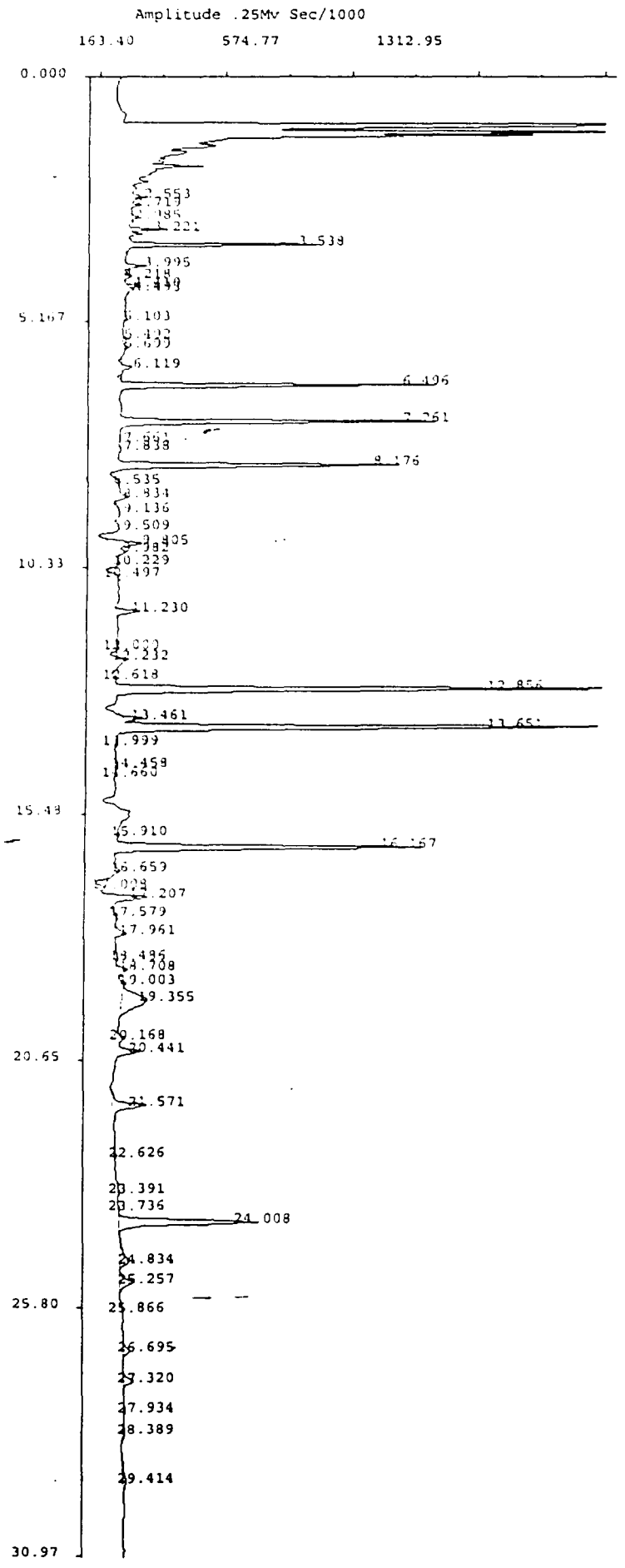
Sample Name : D00068MSD
Lab Id : 990802-05MSD
Inst Id & Col : AD19_1, DB5, 0.53mm
Volume Injected: 1.0 uL Multilevel : False
Peak Processor : Genie Application : Loop
Calculation : ExternalSTD Quantitation: AreaUnits
Result File : /DATA/RESULT/R19P27SEP038.RES
Inject Time : 0825 28Sep1999
Run Status : RunStatusOK
EndOffBaseline

160899/1

Pk #	RT	Area	Code	MASSNG	Name
42	26.51	7888	BB	.002	
43	27.60	21525	BB	.005	
44	28.24	297493	BB	.026	DCB
45	29.21	23705	BB	.005	
46	30.54	28836	BB	.006	

Total Area: 4153476

Method File: /DATA/METHOD/QR19P20SEP.MTH
Format File: /DATA/FORMAT/DUAL_COL.FMT
Report Time: 1247 08Oct1999



Ceimic Corporation Pest/PCB Report

Sample Name : D00068MSD
Lab Id : 990802-05MSD
Inst Id & Col : AD20_1, DB1701, 0.53 mm
Volume Injected: 1.0 uL Multilevel : False
Peak Processor : Genie Application : Loop
Calculation : ExternalSTD Quantitation: AreaUnits
Result File : /DATA/RESULT/R20P27SEP038.RES
Inject Time : 0825 28Sep1999
Run Status : RunStatusOK
EndOffBaseline

100899/B

Pk #	RT	Area	Code	MASSNG	Name
1	2.55	13407	BB	.003	
2	2.72	16166	BB	.004	
3	2.98	13832	BB	.003	
4	3.22	54820	BB	.012	
5	3.54	414281	BB	.019	TCX
6	3.99	44833	BB	.010	
7	4.22	20016	BB	.004	
8	4.41	21054	BB	.005	
9	4.49	8727	BB	.002	
10	5.10	7734	BB	.002	
11	5.49	4324	BB	.001	
12	5.70	9954	BB	.002	
13	6.12	19627	BB	.004	
14	6.50	729262	BB	.030	GAMMA-BHC
15	7.26	824799	BB	.032	HEPTACHLOR
16	7.66	4864	BB	.001	
17	7.84	8511	BB	.002	
18	8.18	795974	BB	.034	ALDRIN
19	8.53	17663	BB	.004	
20	8.83	36716	BB	.008	
21	9.14	8876	BB	.002	
22	9.51	84591	BB	.019	
23	9.80	118672	BB	.026	
24	9.98	16026	BB	.004	
25	10.23	29237	BB	.006	
26	10.50	17975	BB	.001	H. EPOXIDE
27	11.23	74336	BB	.016	
28	12.00	26325	BB	.006	
29	12.23	108802	BB	.024	
30	12.62	9463	BB	.002	
31	12.86	1498819	BB	.067	DIELDRIN
32	13.46	10777	BB	.002	
33	13.65	1452348	BB	.089	ENDRIN
34	14.00	6593	BB	.001	
35	14.46	12906	BB	.003	
36	14.66	4176	BB	.001	
37	15.91	5245	BB	.001	
38	16.17	983587	BB	.092	4,4'-DDT
39	16.66	94289	BB	.021	
40	17.01	20080	BB	.004	
41	17.21	188229	BB	.017	ENDRIN ALDEH

100899/B

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Ceimic Corporation Pest/PCB Report

Sample Name : D00068MSD
Lab Id : 990802-05MSD
Inst Id & Col : AD20_1, DB1701, 0.53 mm
Volume Injected: 1.0 uL Multilevel : False
Peak Processor : Genie Application : Loop
Calculation : ExternalSTD Quantitation: AreaUnits
Result File : /DATA/RESULT/R20P27SEP038.RES
Inject Time : 0825 28Sep1999
Run Status : RunStatusOK
EndOffBaseline

10/05/99/S

Pk #	RT	Area	Code	MASSNG	Name
42	17.58	8031	BB	.002	
43	17.96	45647	BB	.010	
44	18.49	17159	BB	.001	ENDO. SULFAT
45	18.71	47332	BB	.010	
46	19.00	15256	BB	.003	
47	19.35	279650	BB	.061	
48	20.17	20542	BB	.001	ENDRIN KETONE
49	20.44	82878	BB	.018	
50	21.57	171157	BB	.038	
51	22.63	6871	BB	.002	
52	23.39	7396	BB	.002	
53	23.74	4038	BB	.001	
54	24.01	558245	BB	.029	DCB
55	24.83	67901	BB	.015	
56	25.26	77950	BB	.017	
57	25.87	7205	BB	.002	
58	26.70	35800	BB	.008	
59	27.32	48175	BB	.011	
60	27.93	5251	BB	.001	
61	28.39	20965	BB	.005	
62	29.41	42188	BB	.009	

10/05/99/S

Total Area: 9407656

Method File: /DATA/METHOD/QR20P20SEP.MTH
Format File: /DATA/FORMAT/DUAL_COL.FMT
Report Time: 1252 08Oct1999

CEIMIC CORPORATION

Organic Preparation Laboratory / Sample Preparation Bench Sheets

Project#: 990802
Client: Roy F. Weston
Blank ID: P0914-BB

Analytical Method: CLP
Extraction Method: Sep funnel
LCS ID: P0914-LCSB

Surr. Sol. ID: PW9908308
MS Sol. ID: PW990903A
Addt'l Spike ID: —

Prep Date/Time: 9/14/99 / ____
Analysis: Pest/PCB
Matrix: Aqueous

IDENTIFICATION		EXTRACTION SECTION								EXTRACT CLEAN-UP SECTION								INIT & DATE TRANSFER		COMMENTS
										GC/MS			GC/LC							
Client ID	Ceimic ID	Vol/ Wt (ml/g)	Surr Vol (µl)	MS Vol (µl)	% Moist	pH	Acid pH	Basic pH	Final Ext Vol*	Clean Up Vol*	Post Clean Vol*	Vol Trans*	Clean Up Vol*	Post Clean Vol*	Florisil Vol*	Post Florisil Vol*	Vol Trans*	GC/ MS	GC/ LC	
✓	P0914-BB	1000	1000	—			T	T	10 mL								1 mL	T	~~1 mL~~ MR 9/23/99	RC 9/14/99
	LCSB			1000																
D00064	P0803-01			—							RC									
	-01MS			1000						9/14/99										
	-01MSD																			
	-02			T																
	-03																			
	-04																			
	-13																			
								RC												
								9/14/99												

*All volumes are in milliliters (ml) unless otherwise noted.

Extr.Solvent ID: N17355
Final Solvent ID: N28303
Container Lot #: —
Prepared by: RC

Sodium Sulfate Lot #: N29551
Supervisor Init: [illegible]
Surrogate Added By: RC
Witnessed By: [illegible]

Reagents IDs:

☐ GPC X Y Z
☐ Silica
☐ Florisil
Lot #: ____

Comment Codes:

RE = Reextract
AL 2nd Aliquot

CEIMIC CORPORATION

Organic Preparation Laboratory / Sample Preparation Bench Sheets

Project#: 990802 | Analytical Method: CLP | Surr. Sol. ID: PW990830B | Prep Date/Time: 9/14/99

Client: Roy F. Weston, Inc. | Extraction Method: Sonication | MS Sol. ID: PW990403A | Analysis: PCB/PCB

Blank ID: P0914-B2 | LCS ID: P0914-LCS2 | Addt'l Spike ID: — | Matrix: Soil

IDENTIFICATION		EXTRACTION SECTION								EXTRACT CLEAN-UP SECTION								INIT & DATE TRANSFER		COMMENTS
										GC/MS			GC/LC							
Client ID	Ceimic ID	Vol/ Wt (ml/g)	Surr Vol (µl)	MS Vol (µl)	% Moist	pH	Acid pH	Basic pH	Final Ext Vol*	Clean Up Vol*	Post Clean Vol*	Vol Trans*	Clean Up Vol*	Post Clean Vol*	Florisil Vol*	Post Florisil Vol*	Vol Trans*	GC/ MS	GC/ LC	
	P0914-B2	30.0	200	—			—	—	5 ml				2 ml	5 ml			1 ml	—	HO 9/24/99	
	-LCS2	30.0		1000																
D00068	P0802-05	30.0		—	33	7.4				NR					NR					
	-05MS	30.3		1000																
	-05MSD	30.3									9/15/99					9/15/99				
D00069	-06	30.2			22	7.5														
-70	-07	30.2			30	8.0														
-71	-08	30.4			30	7.1														
			NR																	
				9/15/99																

*All volumes are in milliliters (ml) unless otherwise noted.

Extr.Solvent ID: N17255/N23288 | Sodium Sulfate Lot #: N24527 | Reagents IDs: 9/23/99

Final Solvent ID: N17255 | Supervisor Init: DT | GPC X (Y) Z

Container Lot #: — | Surrogate Added By: | Silica 0986CK1

Prepared by: MZ | Witnessed By: | Florisil

Lot #: ____

Comment Codes:

RE = Reextract

AL 2nd Aliquot

CEIMIC CORPORATION

Organic Preparation Laboratory / Sample Preparation Bench Sheets

Project#: 990802 | Analytical Method: CLP | Surr. Sol. ID: PW990915B | Prep Date/Time: 9/15/99

Client: Roy F. Weston | Extraction Method: SONICATION | MS Sol. ID: PW990903A | Analysis: PEST/PCB

Blank ID: P0915-B7 | LCS ID: P0915-LCS7 | Addt'l Spike ID: — | Matrix: P.E. - SOIL

IDENTIFICATION		EXTRACTION SECTION								EXTRACT CLEAN-UP SECTION								INIT & DATE TRANSFER		COMMENTS
										GC/MS			GC/LC							
Client ID	Ceimic ID	Vol/ Wt (ml/g)	Surr Vol (µl)	MS Vol (µl)	% Moist	pH	Acid pH	Basic pH	Final Ext Vol*	Clean Up Vol*	Post Clean Vol*	Vol Trans*	Clean Up Vol*	Post Clean Vol*	Florisil Vol*	Post Florisil Vol*	Vol Trans*	GC/ MS	GC/ LC	
000079	P0802-16	30.1	2000	-	2		-	-	4ml	-	-	-	2ml	5ml			1ml	—	HB 09/24/99	

9/15/99

*All volumes are in milliliters (ml) unless otherwise noted.

Extr.Solvent ID: N28263/N23299 | Sodium Sulfate Lot #: N28527 N28591 | Reagents IDs:

Final Solvent ID: N28363 | Supervisor Init: 9/15/99

Container Lot #: 069310-03 | Surrogate Added By: CM

Prepared by: CM | Witnessed By: BM

☐ GPC X Y Z

☐ Silica

☐ Florisil

Lot #: _____

Comment Codes:

RE = Reextract

AL 2nd Aliquot

QAT0287

Page # 70

#3

CEIMIC CORPORATION

Organic Preparation Laboratory / Sample Preparation Bench Sheets

Project#: 990802 | Analytical Method: CLP | Surr. Sol. ID: PW990915B | Prep Date/Time: 09/15/99

Client: ROY F. WESTON | Extraction Method: SEPARATORY FUNNELS | MS Sol. ID: PW990903A | Analysis: PCB/PB

Blank ID: P0915-B9 | LCS ID: P0915-LCS9 | Addt'l Spike ID: — | Matrix: P.E.-AMBLE

IDENTIFICATION		EXTRACTION SECTION								EXTRACT CLEAN-UP SECTION								INIT & DATE TRANSFER		COMMENTS
										GC/MS			GC/LC							
Client ID	Ceimic ID	Vol/ Wt (ml/g)	Surr Vol (µl)	MS Vol (µl)	% Moist	pH	Acid pH	Basic pH	Final Ext Vol*	Clean Up Vol*	Post Clean Vol*	Vol Trans*	Clean Up Vol*	Post Clean Vol*	Florisil Vol*	Post Florisil Vol*	Vol Trans*	GC/ MS	GC/ LC	
	P0915-B9	1000	1000	—			—	—	10ml								1ml	—	CAY 9/15/99	
	-LCS9	↓	↓	1000			↓	↓	↓		CAY 9/15/99			CAY 9/15/99			↓	↓	↓	
D000798	P0812-15			—																1ml MARK-SPIKE
								CAY 9/15/99												

*All volumes are in milliliters (ml) unless otherwise noted.

Extr.Solvent ID: N20263 | Sodium Sulfate Lot #: — | Reagents IDs:

Final Solvent ID: N28303 | Supervisor Init: | ☐ GPC X Y Z

Container Lot #: 061310-03 | Surrogate Added By: CAY | ☐ Silica

Prepared by: CAY | Witnessed By: CAY | ☐ Florisil

Lot #:

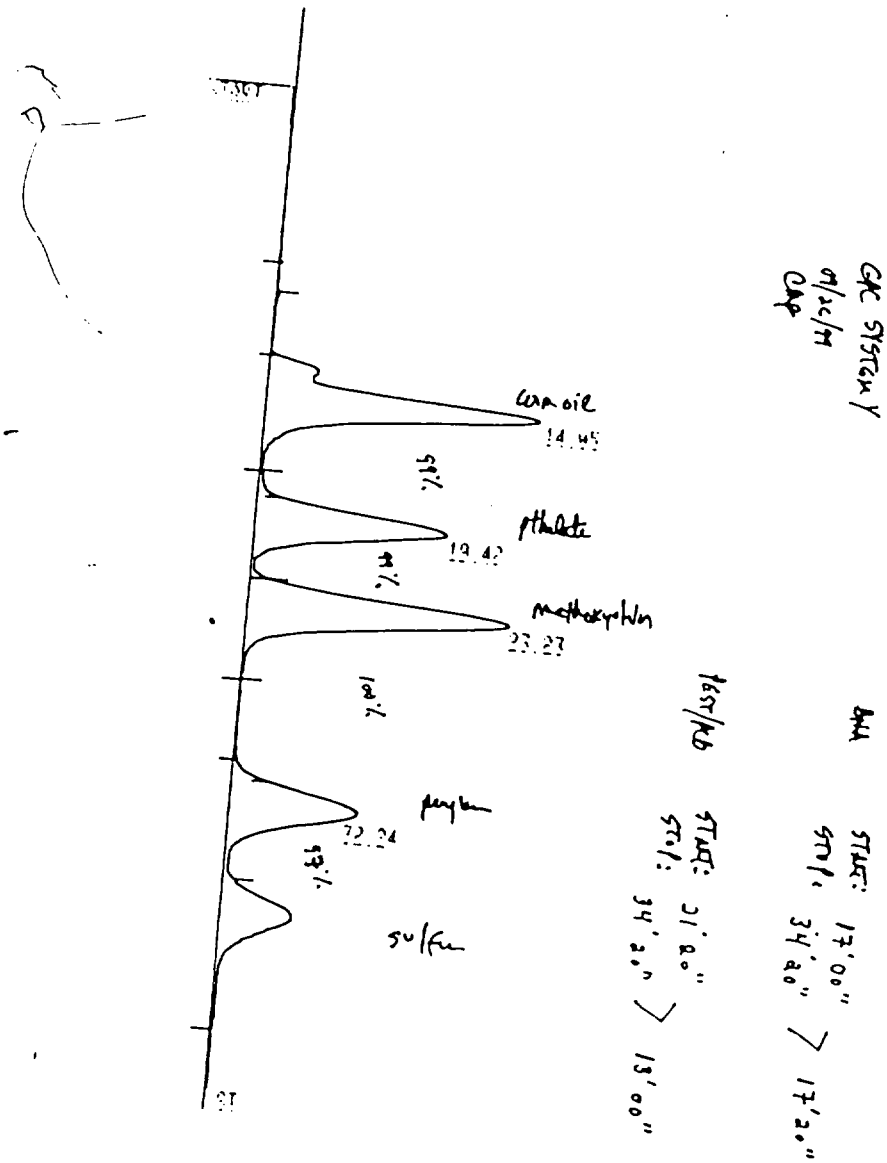
Comment Codes:

RE = Reextract

AL 2nd Aliquot

PESTICIDES/PCBS

e. Raw GPC Data



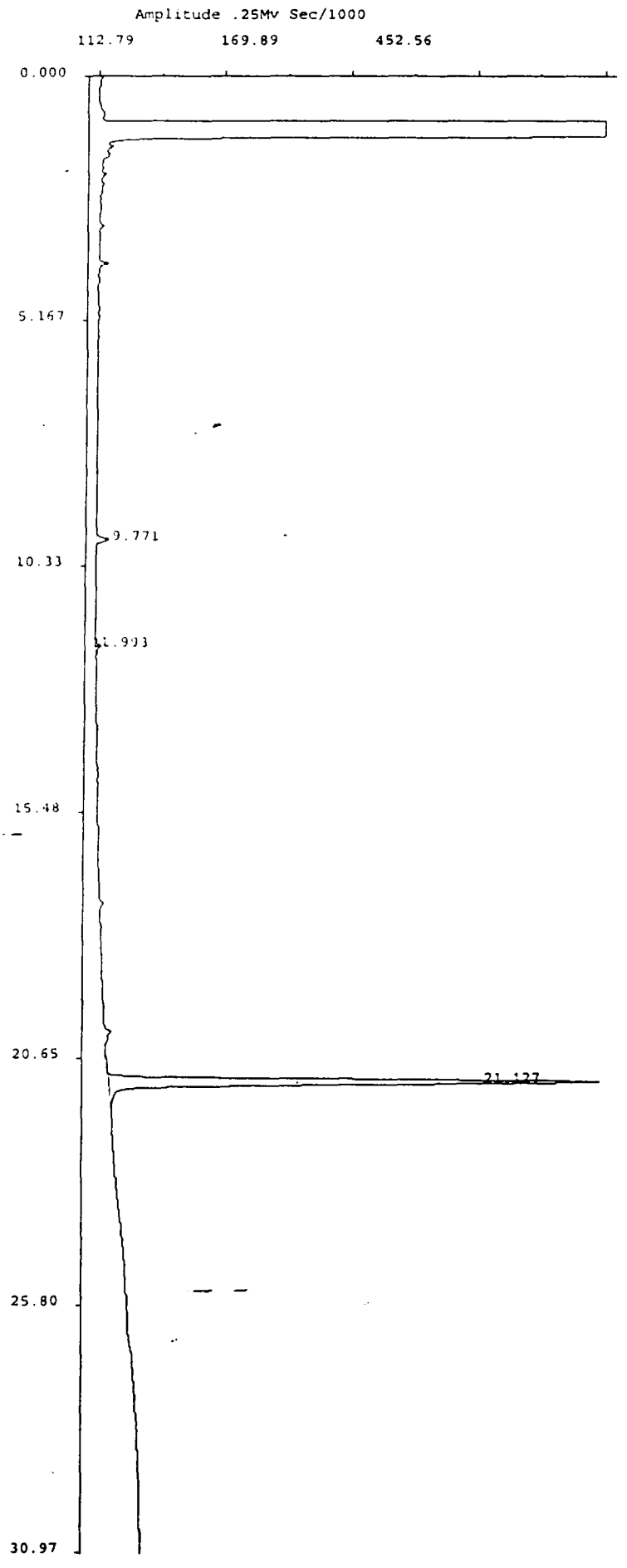
RUN # 279
WORKFILE ID: C
WORKFILE NAME:

SEP/26/99 10:36:18

AREA%

RT	AREA	TYPE	AR/HT	AREA%
14.95	2.1909E+07	BB	1.391	33.331
19.42	1.2494E+07	BB	1.196	19.009
23.23	2.0735E+07	BB	1.399	31.546
32.24	1.0597E+07	BB	1.541	16.115

TOTAL AREA= 6.5732E+07
MUL FACTOR= 1.0000E+00



Ceimic Corporation Pest/PCB Report

Sample Name : GPC0926B1Y
Lab Id : 0926B1Y
Inst Id & Col : AD19_1, DB5, 0.53mm
Volume Injected: 1.0 uL Multilevel : False
Peak Processor : Genie Application : Loop
Calculation : ExternalSTD Quantitation: AreaUnits
Result File : /DATA/RESULT/R19P05OCT060.RES
Inject Time : 1922 06Oct1999
Run Status : RunStatusOK
EndOffBaseline
NoReference

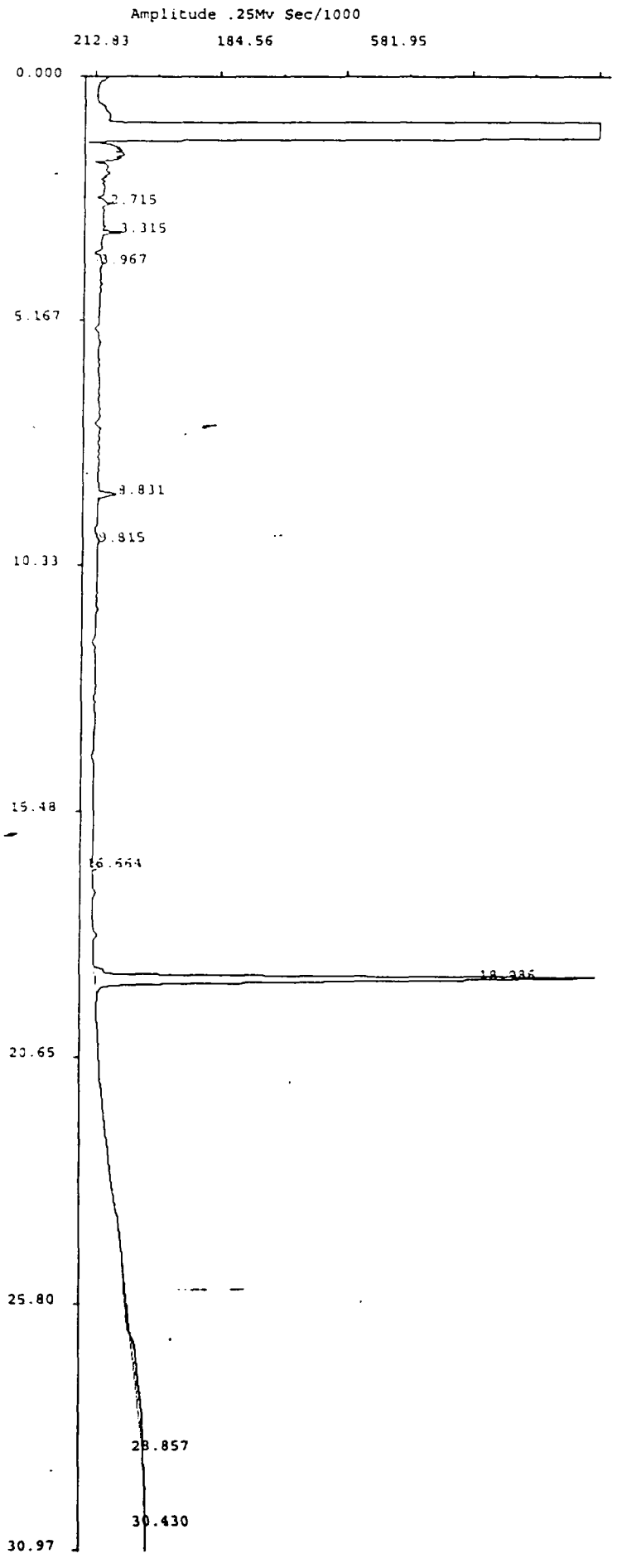
160899 /s

Pk #	RT	Area	Code	MASSNG	Name
1	9.77	12055	BB	.003	
2	11.99	5186	BB	.001	H. EPOXIDE
3	21.13	656690	BB	.144	

160899 /s

Total Area: 673931

Method File: /DATA/METHOD/QR19P20SEP.MTH
Format File: /DATA/FORMAT/DUAL_COL.FMT
Report Time: 1315 08Oct1999



Ceimic Corporation Pest/PCB Report

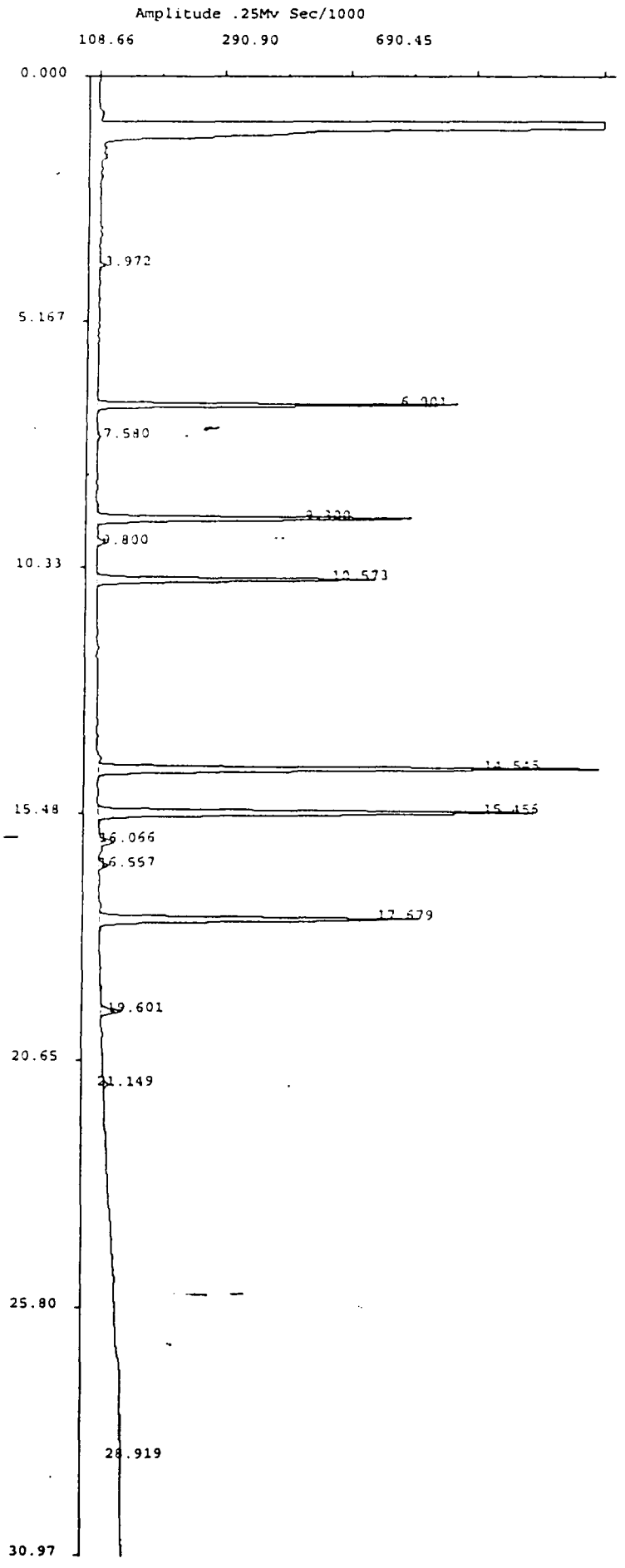
Sample Name : GPC0926B1Y
Lab Id : 0926B1Y
Inst Id & Col : AD20_1, DB1701, 0.53 mm
Volume Injected: 1.0 uL Multilevel : False
Peak Processor : Genie Application : Loop
Calculation : ExternalSTD Quantitation: AreaUnits
Result File : /DATA/RESULT/R20P05OCT060.RES
Inject Time : 1922 06Oct1999
Run Status : RunStatusOK
NoReference

100899/5

Pk #	RT	Area	Code	MASSNG	Name
1	2.71	10762	BB	.002	
2	3.31	13376	BB	.003	
3	3.97	14262	BB	.003	
4	8.83	18785	BB	.004	
5	9.82	4755	BB	.001	
6	16.66	7753	BB	.002	
7	18.99	691064	BB	.152	
8	28.86	47480	BB	.010	
9	30.43	6975	BB	.002	

Total Area: 815213

Method File: /DATA/METHOD/QR20P20SEP.MTH
Format File: /DATA/FORMAT/DUAL_COL.FMT
Report Time: 1319 08Oct1999



Ceimic Corporation Pest/PCB Report

Sample Name : GPC0926CK1Y
Lab Id : 0926CK1Y
Inst Id & Col : AD19_1, DB5, 0.53mm
Volume Injected: 1.0 uL Multilevel : False
Peak Processor : Genie Application : Loop
Calculation : ExternalSTD Quantitation: AreaUnits
Result File : /DATA/RESULT/R19P05OCT083.RES
Inject Time : 1235 07Oct1999
Run Status : RunStatusOK
EndOffBaseline
NoReference
SpecialInteg

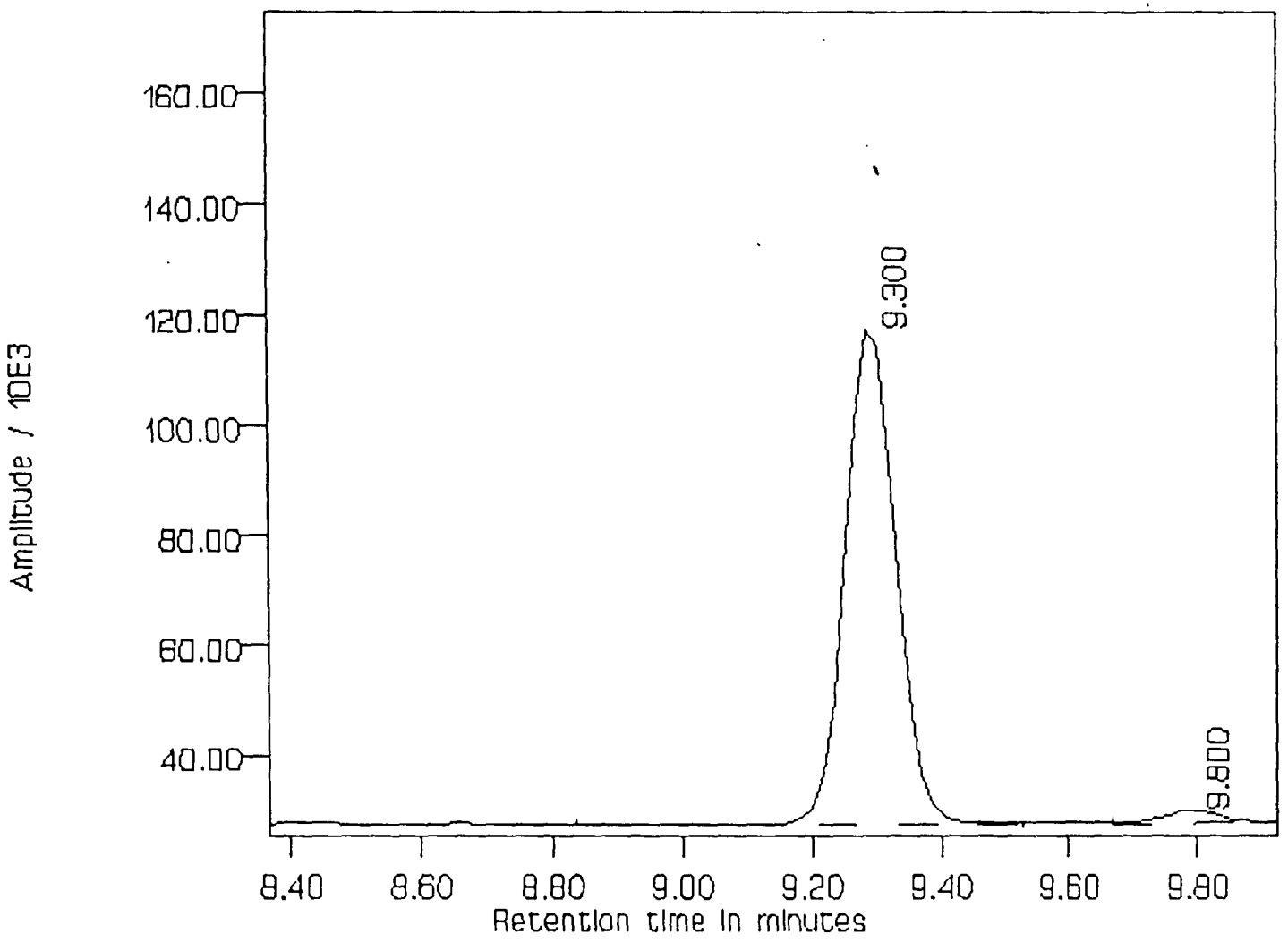
100899/3

Pk #	RT	Area	Code	MASSNG	Name
1	3.97	8244	VB	.002	
2	6.90	463723	BB	.046	GAMMA-BHC
3	7.58	4987	BB	.001	
4	9.30	476249	FF	.040	HEPTACHLOR
5	9.80	15571	FF	.003	
6	10.57	426920	BB	.046	ALDRIN
7	14.55	841691	BB	.088	DIELDRIN
8	15.46	765559	BB	.112	ENDRIN
9	16.07	25175	BB	.004	4,4'-DDD 100899/3
10	16.56	17387	BB	.003	ENDRIN ALDEH
11	17.68	575444	BB	.097	4,4'-DDT
12	19.60	44042	BB	.005	ENDRIN KETONE
13	21.15	8154	BB	.002	100899/3
14	28.92	7971	BB	.002	

Total Area: 3681118

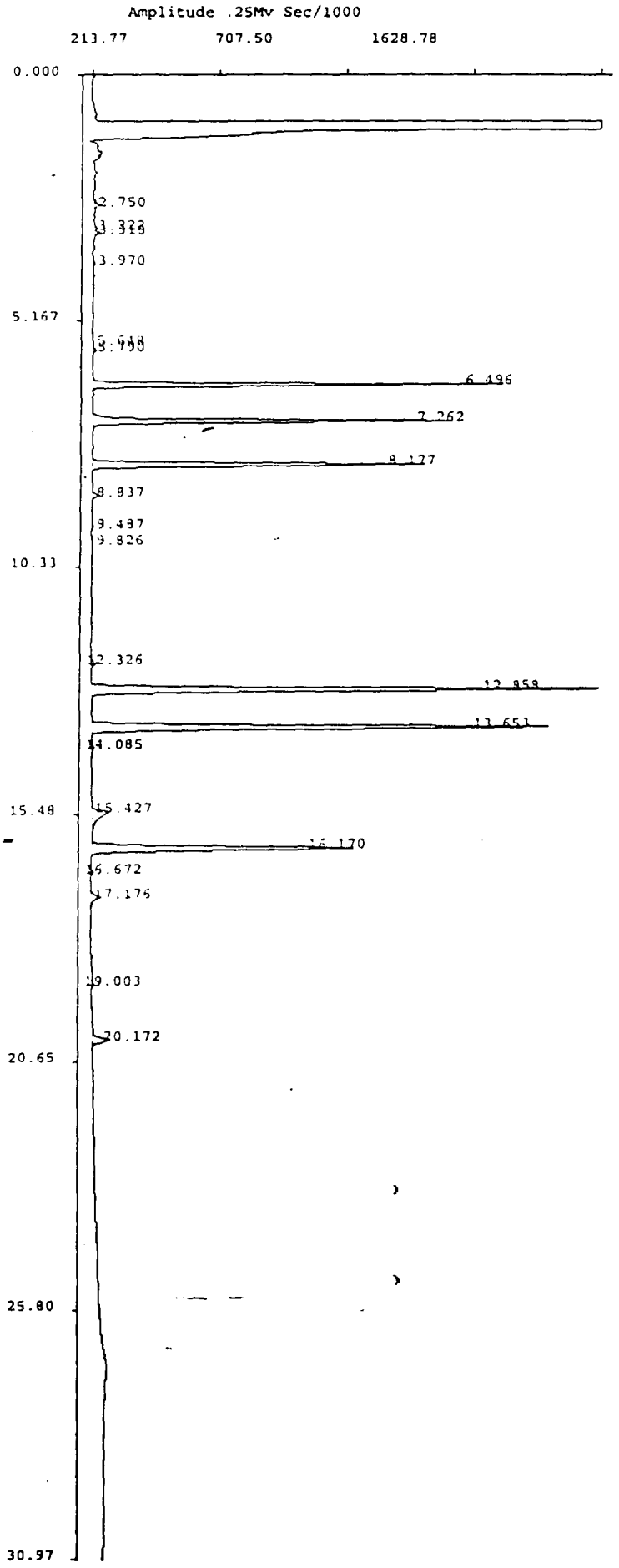
Method File: /DATA/METHOD/QR19P20SEP.MTH
Format File: /DATA/FORMAT/DUAL_COL.FMT
Report Time: 1327 08Oct1999

Sample : GPC0926CK1Y Injected : THU OCT 7, 1999 12:35:19 PM



Result : R19PD50CT083 Method : QR19P20SEP

1868495



Ceimic Corporation Pest/PCB Report

Sample Name : GPC0926CK1Y
Lab Id : 0926CK1Y
Inst Id & Col : AD20_1, DB1701, 0.53 mm
Volume Injected: 1.0 uL Multilevel : False
Peak Processor : Genie Application : Loop
Calculation : ExternalSTD Quantitation: AreaUnits
Result File : /DATA/RESULT/R20P05OCT083.RES
Inject Time : 1235 07Oct1999
Run Status : RunStatusOK
NoReference

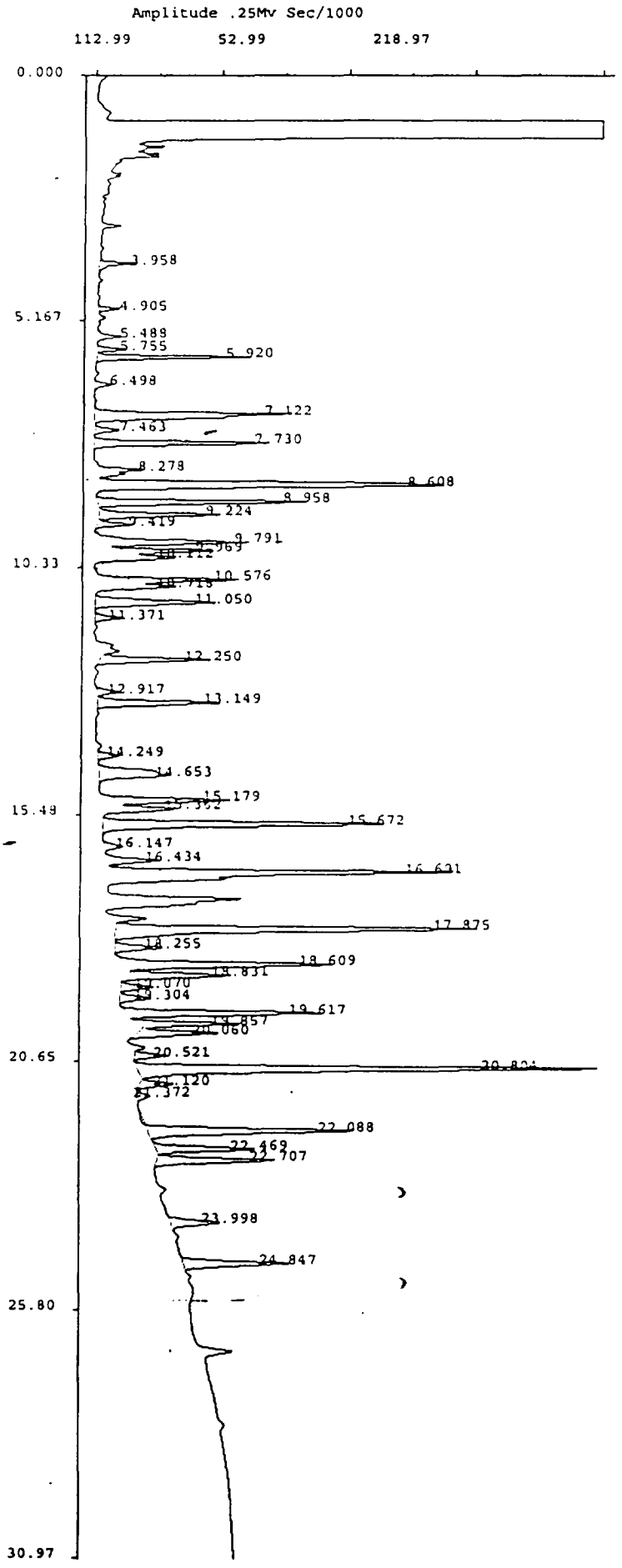
100899/5

Pk #	RT	Area	Code	MASSNG	Name
1	2.75	18049	BB	.004	
2	3.22	6402	BB	.001	
3	3.32	14172	BB	.003	
4	3.97	10025	BB	.002	
5	5.65	7048	BB	.002	
6	5.79	8378	BB	.002	
7	6.50	1152275	BS	.047	GAMMA-BHC
8	7.26	1137979	BB	.044	HEPTACHLOR
9	8.18	1106192	BB	.048	ALDRIN
10	8.84	23828	BB	.005	
11	9.49	6281	BB	.001	
12	9.83	4266	BB	.001	
13	12.33	18902	BB	.001	4,4'-DDE
14	12.86	1975092	BS	.088	DIELDRIN
15	13.65	1777732	BB	.109	ENDRIN
16	14.08	8664	BB	.002	
17	15.43	136009	BB	.009	4,4'-DDD
18	16.17	1045793	BB	.099	4,4'-DDT
19	16.67	8260	BB	.002	
20	17.18	50719	BB	.005	ENDRIN ALDEH
21	19.00	9405	BB	.002	
22	20.17	79919	BB	.006	ENDRIN KETONE

100899/5
100899/5
100899/5
100899/5

Total Area: 8605390

Method File: /DATA/METHOD/QR20P20SEP.MTH
Format File: /DATA/FORMAT/DUAL_COL.FMT
Report Time: 1332 08Oct1999



Ceimic Corporation Pest/PCB Report

Sample Name : GPC0926CK2Y
Lab Id : 0926CK2Y
Inst Id & Col : AD19_1, DB5, 0.53mm
Volume Injected: 1.0 uL Multilevel : False
Peak Processor : Genie Application : Loop
Calculation : ExternalSTD Quantitation: AreaUnits
Result File : /DATA/RESULT/R19P05OCT062.RES
Inject Time : 2033 06Oct1999
Run Status : RunStatusOK
EndOffBaseline
NoReference

100599/3

Pk #	RT	Area	Code	MASSNG	Name
1	3.96	9340	VB	.002	
2	4.91	4385	BB	.001	
3	5.49	6705	BB	.001	
4	5.76	6457	BB	.001	
5	5.92	34604	BB	.008	
6	6.50	4870	BB	.001	
7	7.12	77917	BB	.017	
8	7.46	6758	BB	.001	DELTA-BHC
9	7.73	44641	BB	.010	
10	8.28	6459	BB	.001	
11	8.61	132932	BB	.029	
12	8.96	58527	BB	.013	
13	9.22	33605	BB	.007	
14	9.42	9134	BB	.002	
15	9.79	44247	BB	.010	
16	9.97	20407	BB	.004	
17	10.11	11058	BB	.002	
18	10.58	21035	BB	.002	ALDRIN
19	10.72	10129	BB	.002	
20	11.05	44404	BB	.010	
21	11.37	7936	BB	.002	
22	12.25	33195	BB	.007	
23	12.92	6424	BB	.001	G. CHLORDANE
24	13.15	40483	BB	.009	
25	14.25	6972	BB	.002	
26	14.65	39204	BB	.009	
27	15.18	31650	BB	.007	
28	15.36	18395	BB	.004	
29	15.67	104730	BB	.023	
30	16.15	6379	BB	.001	
31	16.43	17198	BB	.004	
32	16.69	85133	BB	.019	
33	17.88	140669	BB	.031	
34	18.25	15821	BB	.003	
35	18.61	71878	BB	.016	
36	18.83	33135	BB	.007	
37	19.07	10467	BB	.002	
38	19.30	10203	BB	.002	
39	19.62	67852	BB	.007	ENDRIN KETONE
40	19.86	31584	BB	.007	

100599/?

Ceimic Corporation Pest/PCB Report

Sample Name : GPC0926CK2Y
Lab Id : 0926CK2Y
Inst Id & Col : AD19_1, DB5, 0.53mm
Volume Injected: 1.0 uL Multilevel : False
Peak Processor : Genie Application : Loop
Calculation : ExternalSTD Quantitation: AreaUnits
Result File : /DATA/RESULT/R19P05OCT062.RES
Inject Time : 2033 06Oct1999
Run Status : RunStatusOK
EndOffBaseline
NoReference

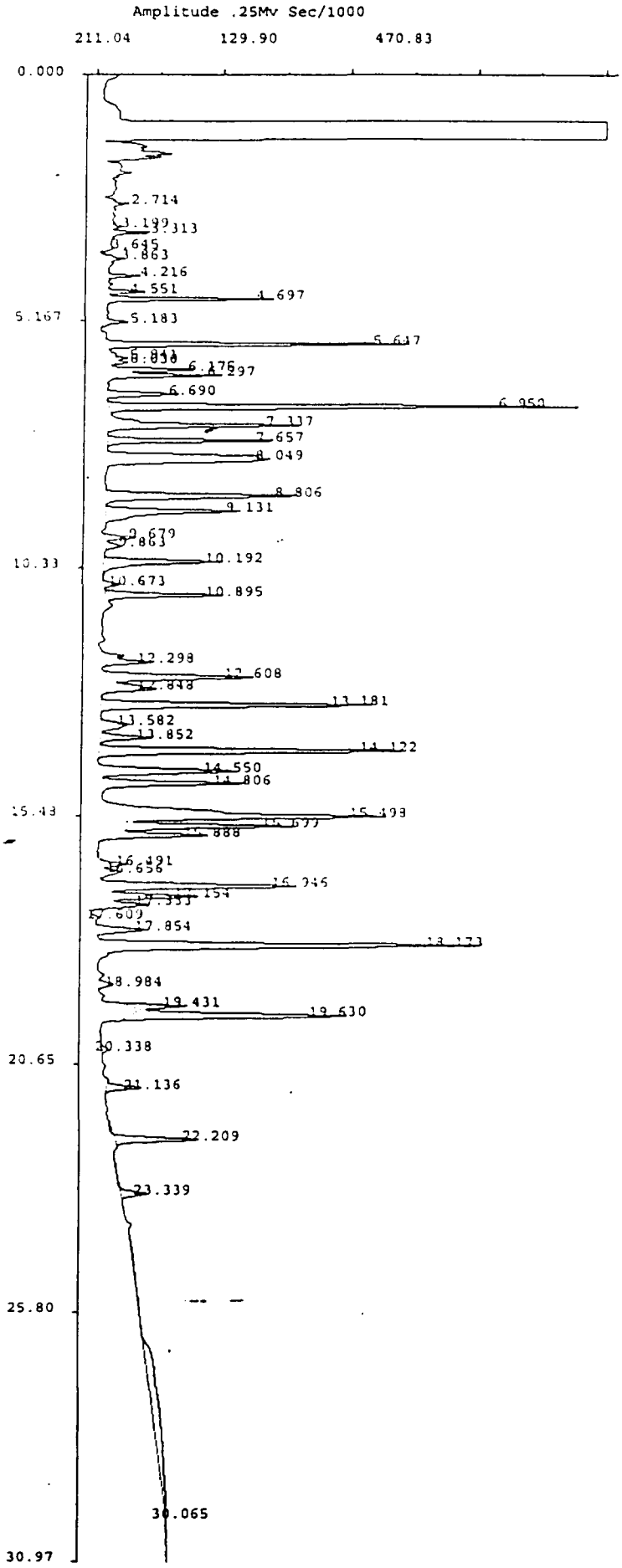
100899/3

Pk #	RT	Area	Code	MASSNG	Name
41	20.06	27636	BB	.007	METHOXYCHLOR
42	20.52	9661	BB	.002	
43	20.80	168433	BB	.037	
44	21.12	11504	BB	.003	
45	21.37	4484	BB	.001	
46	22.09	78482	BB	.017	
47	22.47	34654	BB	.008	
48	22.71	41091	BB	.009	
49	24.00	17698	BB	.004	
50	24.85	37580	BB	.008	

100899/3

Total Area: 1798146

Method File: /DATA/METHOD/QR19P20SEP.MTH
Format File: /DATA/FORMAT/DUAL_COL.FMT
Report Time: 1318 08Oct1999



Ceimic Corporation Pest/PCB Report

Sample Name : GPC0926CK2Y
Lab Id : 0926CK2Y
Inst Id & Col : AD20_1, DB1701, 0.53 mm
Volume Injected: 1.0 uL Multilevel : False
Peak Processor : Genie Application : Loop
Calculation : ExternalSTD Quantitation: AreaUnits
Result File : /DATA/RESULT/R20P050CT062.RES
Inject Time : 2033 06Oct1999
Run Status : RunStatusOK
EndOffBaseline
NoReference

100899/3

Pk #	RT	Area	Code	MASSNG	Name
1	2.71	5349	BB	.001	
2	3.20	4377	BB	.001	
3	3.31	18101	BB	.004	
4	3.64	5892	BB	.001	
5	3.86	11569	BB	.003	
6	4.22	14113	BB	.003	
7	4.55	15413	BB	.003	
8	4.70	77898	BB	.017	
9	5.18	13442	BB	.003	
10	5.65	165896	BB	.036	
11	5.94	6594	BB	.001	
12	6.03	5110	BB	.001	
13	6.17	36003	BB	.008	
14	6.30	53044	BB	.012	
15	6.69	45615	BB	.010	
16	6.95	313927	BB	.069	
17	7.34	139146	BB	.031	
18	7.66	101272	BB	.022	
19	8.05	223556	BB	.049	
20	8.81	158751	BB	.035	
21	9.13	117584	BB	.026	
22	9.68	19186	BB	.004	
23	9.86	11458	BB	.003	
24	10.19	98894	BB	.022	
25	10.67	10627	BB	.002	
26	10.89	79723	BB	.018	
27	12.30	26411	BB	.001	4,4'-DDE
28	12.61	118498	BB	.026	
29	12.85	40537	BB	.002	DIELDRIN
30	13.18	204041	BB	.045	
31	13.58	29169	BB	.006	
32	13.85	35457	BB	.008	
33	14.12	246804	BB	.054	
34	14.55	125046	BB	.027	
35	14.81	110400	BB	.024	
36	15.50	291688	BB	.015	ENDOSULF. II
37	15.70	116151	BB	.026	
38	15.89	62001	BB	.014	
39	16.49	14280	BB	.003	
40	16.66	14769	BB	.003	

100899/5

Ceimic Corporation Pest/PCB Report

Sample Name : GPC0926CK2Y
Lab Id : 0926CK2Y
Inst Id & Col : AD20_1, DB1701, 0.53 mm
Volume Injected: 1.0 uL Multilevel : False
Peak Processor : Genie Application : Loop
Calculation : ExternalSTD Quantitation: AreaUnits
Result File : /DATA/RESULT/R20P05OCT062.RES
Inject Time : 2033 06Oct1999
Run Status : RunStatusOK
EndOffBaseline
NoReference

100899/s

Pk #	RT	Area	Code	MASSNG	Name
41	16.95	151282	BB	.033	
42	17.15	62078	BB	.006	ENDRIN ALDEH
43	17.33	32231	BB	.007	
44	17.61	4491	BB	.001	
45	17.85	43280	BB	.010	
46	18.17	324899	BB	.071	
47	18.98	12007	BB	.003	
48	19.43	37216	BB	.008	
49	19.63	165642	BB	.036	
50	20.34	4560	BB	.001	
51	21.14	25914	BB	.006	
52	22.21	59908	BB	.013	
53	23.34	16111	BB	.004	
54	30.05	155895	BB	.034	

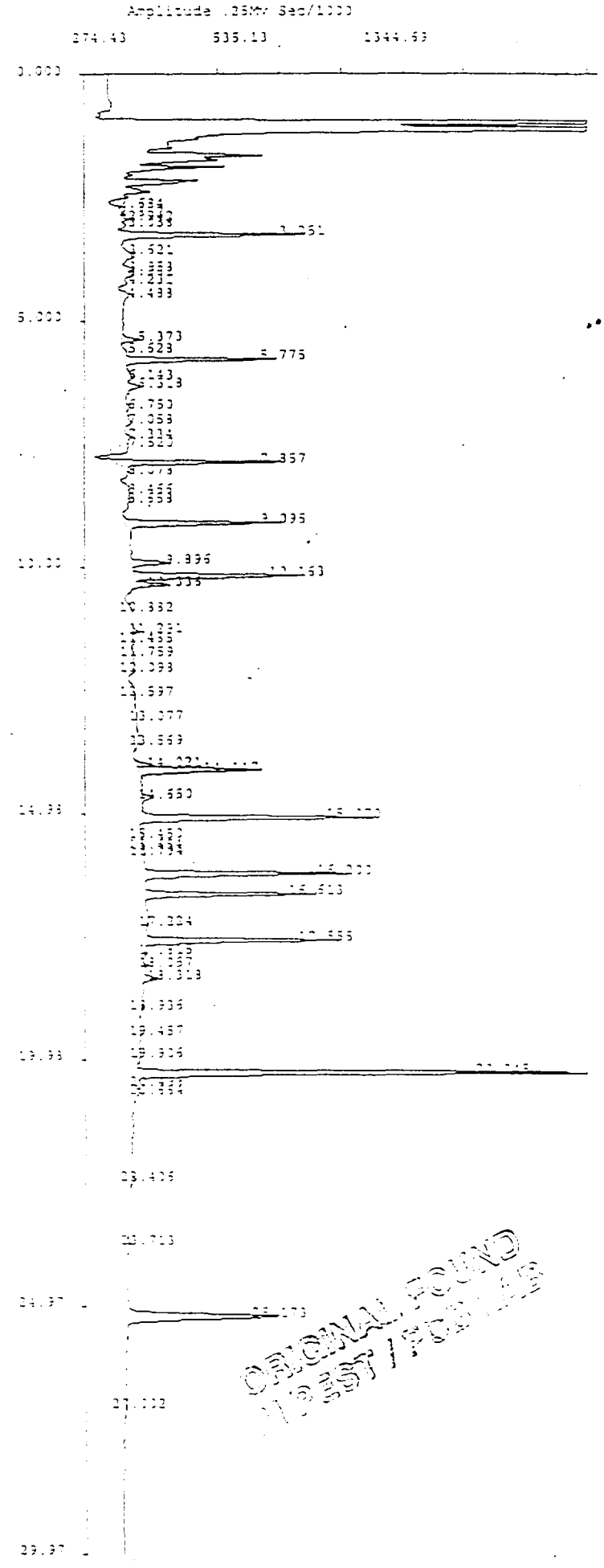
Total Area: 4233310

100899/s

Method File: /DATA/METHOD/QR20P20SEP.MTH
Format File: /DATA/FORMAT/DUAL_COL.FMT
Report Time: 1323 08Oct1999

PESTICIDES/PCBS

f. Raw Florisil Data



Celmic Corporation Pest/PCB Report

Sample Name : FLOSP1313R
Lab Id : SP1313R
Inst Id & Col : AD3_1, DB608
Volume Injected: 1.0 uL Multilevel : False
Peak Processor : Gamma Application : Loop
Calculation : ExternalSTD Quantitation: AreaUnits
Result File : /DATA/RESULT/D8P24NOV072.RES
*** Inject Time : 1222 27Nov1998
Run Status : RunStatusOK
SpecialIntog

112798/S

Pk #	RT	Area	Code	MASSNG	Name
1	2.58	5104	BB	.001	
2	2.85	7360	BB	.002	
3	2.94	8814	BB	.002	
4	3.06	19049	BB	.004	
5	3.25	508035	BB	.112	
6	3.62	14612	BB	.003	
7	3.95	20225	BB	.004	
8	4.06	14623	BB	.003	
9	4.23	15541	BB	.003	
10	4.49	45540	BB	.010	
11	5.37	46902	BB	.010	
12	5.63	8085	BB	.002	
13	5.78	352470	BB	.010	TCX
14	6.24	23139	BB	.005	
15	6.32	41125	BB	.009	
16	6.75	10300	BB	.002	
17	7.06	13033	BB	.003	
18	7.33	14563	BB	.003	
19	7.52	99058	BB	.022	
20	7.86	420231	BB	.011	ALPHA-BHC
21	8.28	21359	BB	.005	
22	8.47	20344	BB	.004	
23	8.66	25614	BB	.006	
24	9.12	421426	BB	.011	GAMMA-BHC
25	9.92	113317	BB	.025	
26	10.16	444524	BB	.010	HEPTACHLOR
27	10.34	32531	BB	.020	
28	10.88	14251	BB	.003	
29	11.29	19107	BB	.004	
30	11.49	8117	BB	.002	
31	11.76	4522	BB	.001	
32	12.12	5466	BB	.001	
33	12.60	36015	BB	.008	
34	13.08	9143	BB	.002	
35	13.57	44343	BB	.001	G. CHLORDANE
36	14.02	34256	FF	.001	A. CHLORDANE
37	14.12	375516	FF	.011	ENDOSULF. I
38	14.65	36064	BB	.008	
39	15.07	545300	BB	.021	DIELDRIN
40	15.45	8057	BB	.002	
41	15.65	4080	BB	.001	

112798/S

ORIGINAL FOUND IN TEST FILE

1502

Celmic Corporation Pest/PCB Report

Sample Name : FLOSP1313R
Lab_Id : SP1313R
Inst Id & Col : AD3_1, DB608
Volume Injected: 1.0 uL Multilevel : False
Peak Processor : Genie Application : Loop
Calculation : External STD Quantitation: AreaUnits
Result File : /DATA/RESULT/D3P24NOV072.RES
** Inject Time : 1222 27Nov1993
Run Status : RunStatusOK

1127938/3

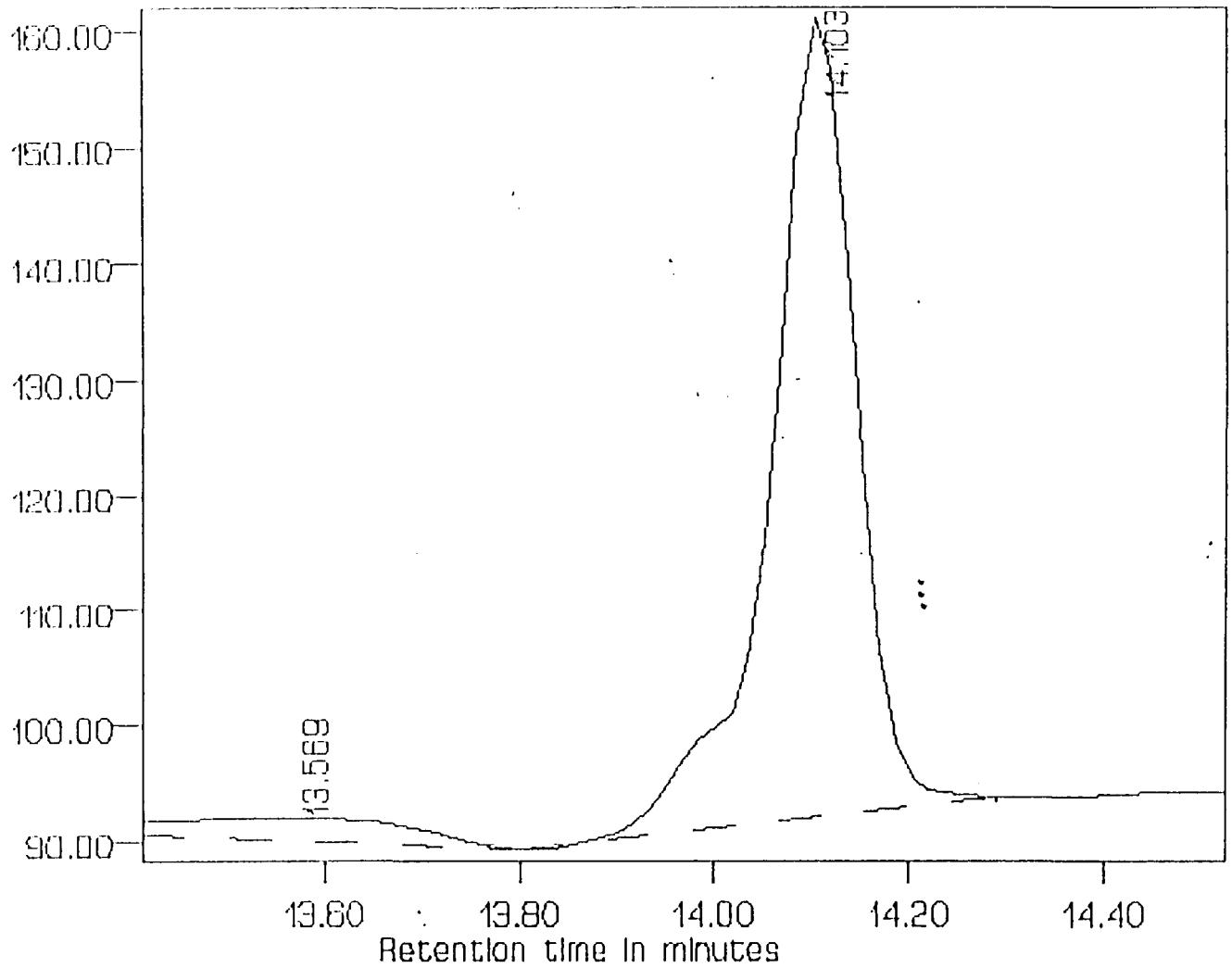
Pk #	RT	Area	SpecialInteg Code	MASSNG	Name
42	15.79	4745	BB	.001	
43	15.20	597626	BB	.020	ENDRIN
44	15.61	433352	BB	.019	4,4'-DDD
45	17.22	4041	BB	.001	
46	17.56	522679	BB	.020	4,4'-DDT
47	17.81	10130	BB	.000	~~ENDRIN ALDEH~~ 1127938/3
48	18.05	3167	BB	.002	
49	18.32	44467	BB	.010	
50	18.94	10960	BB	.002	
51	19.46	7594	BB	.002	
52	19.91	23764	BB	.005	
53	20.25	1241532	BB	.111	METHOXYCHLOR
54	20.50	14278	BB	.001	ENDRIN KETONE
55	20.66	7535	BB	.002	1127910/3
56	22.41	23391	BB	.005	
57	23.71	5852	BB	.001	
58	25.17	633835	BB	.021	DCB
59	27.00	5598	BB	.001	

Total Area: 7534736

Method File: /DATA/METHOD/QD3P22NOV.MTH
Format File: /DATA/FORMAT/DUAL_COL.FMT
Report Time: 1522 27Nov1993

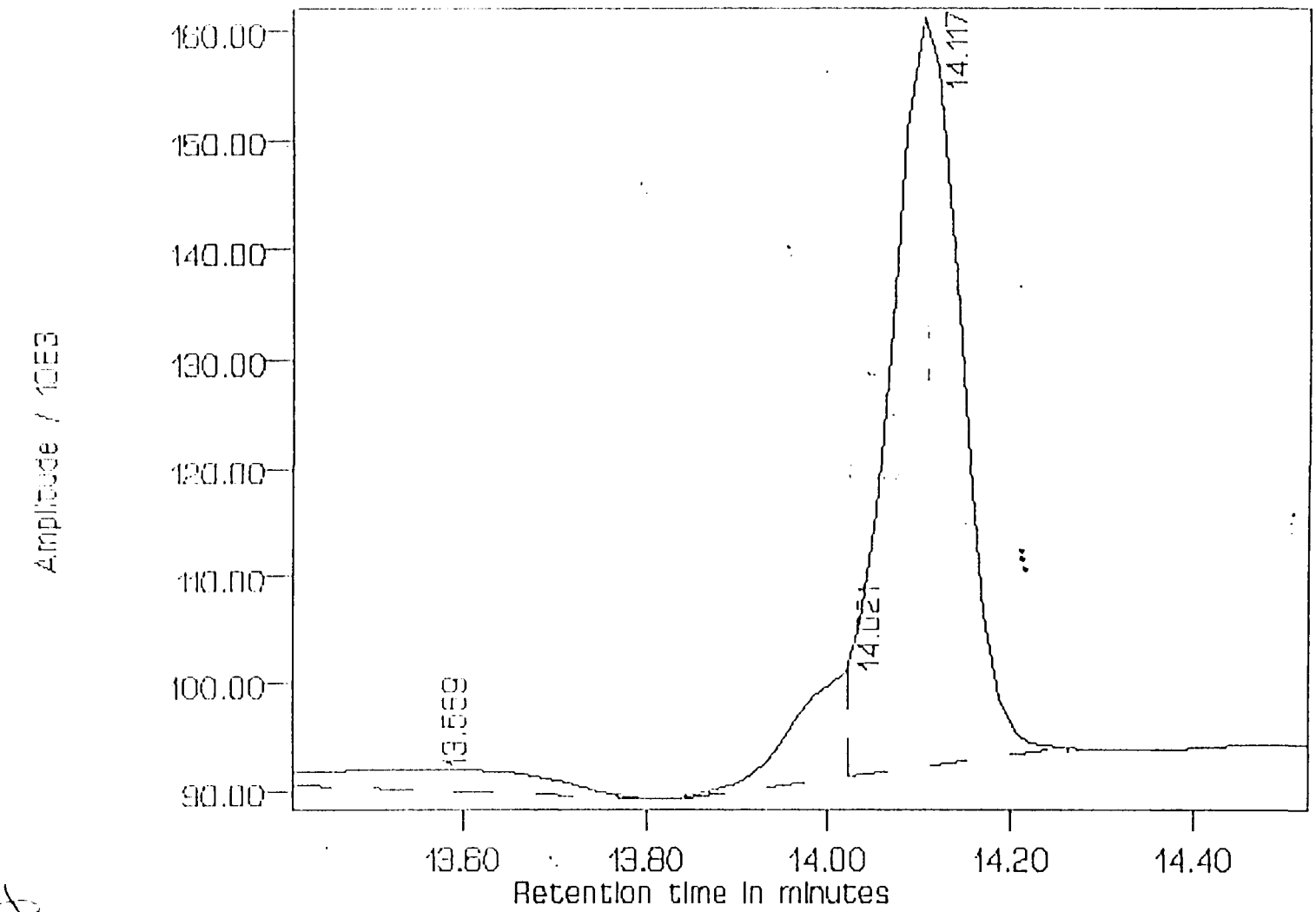
ORIGINAL PAGE IS POOR QUALITY

Sample : FLOSP1313A Injected : FRI NOV 27, 1998 12:22:36 PM



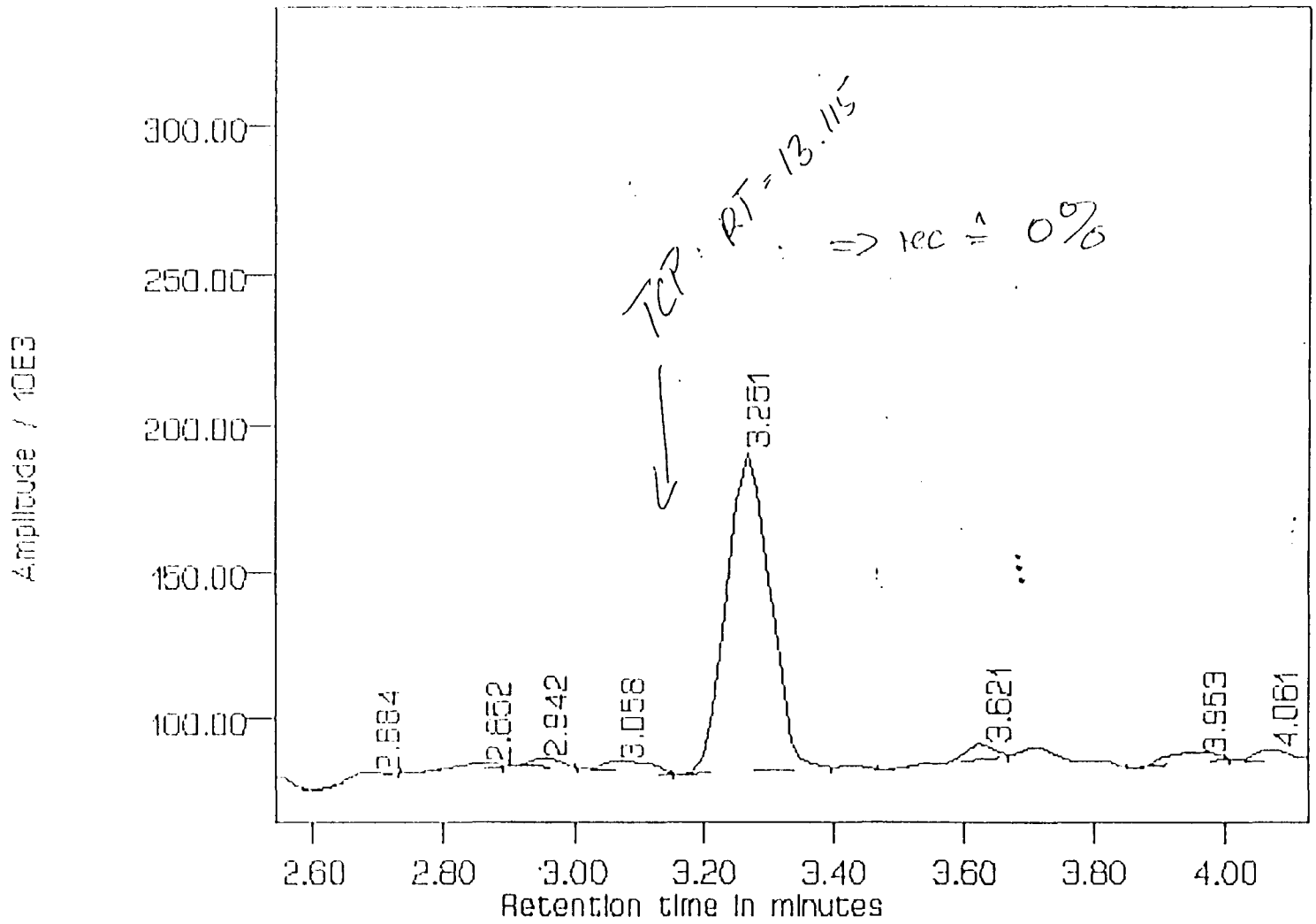
Result : D8P24NOV072 Method : QD8P22NOV

Sample : FLOSP1313A Injected : FRI NOV 27, 1998 12:22:36 PM



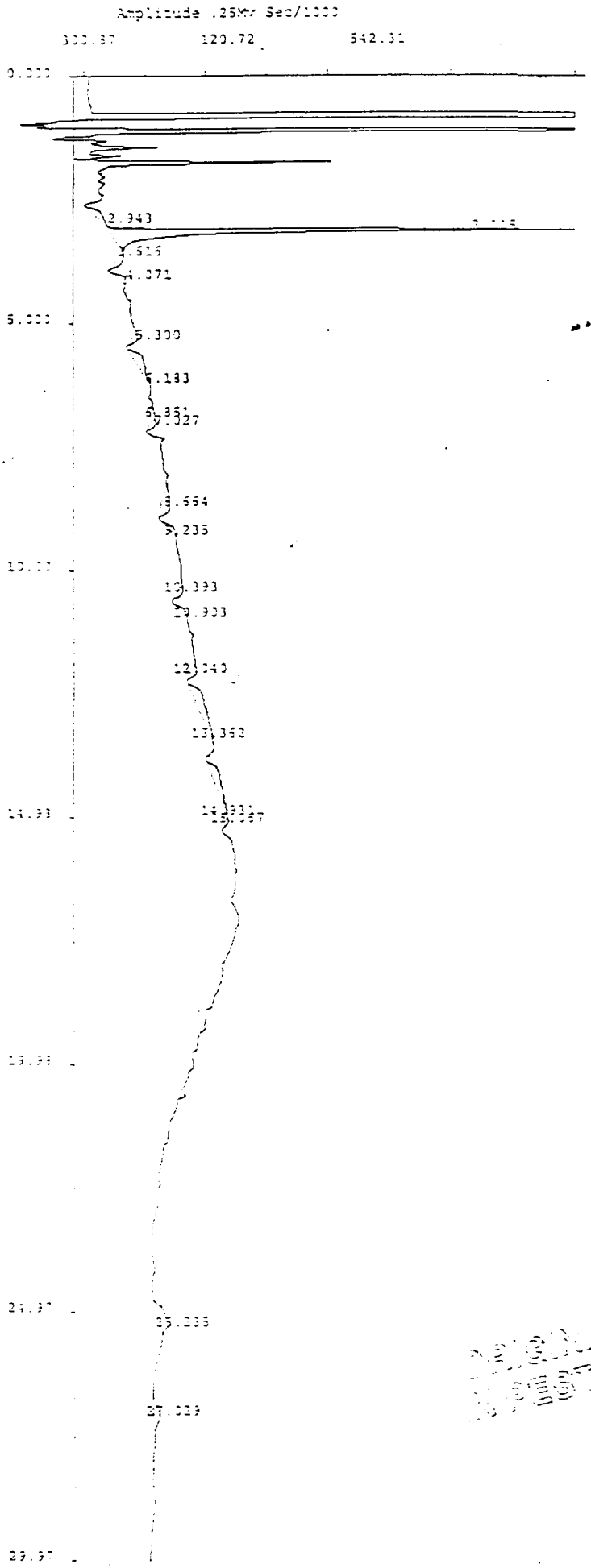
Result : D8P24NOV072 Method : QD8P22NOV

Sample : FLOSP1313A Injected : FRI NOV 27, 1998 12:22:36 PM



Result : D8P24NOV072 Method : QD8P22NOV

1506



Celmic Corporation Pest/PCB Report

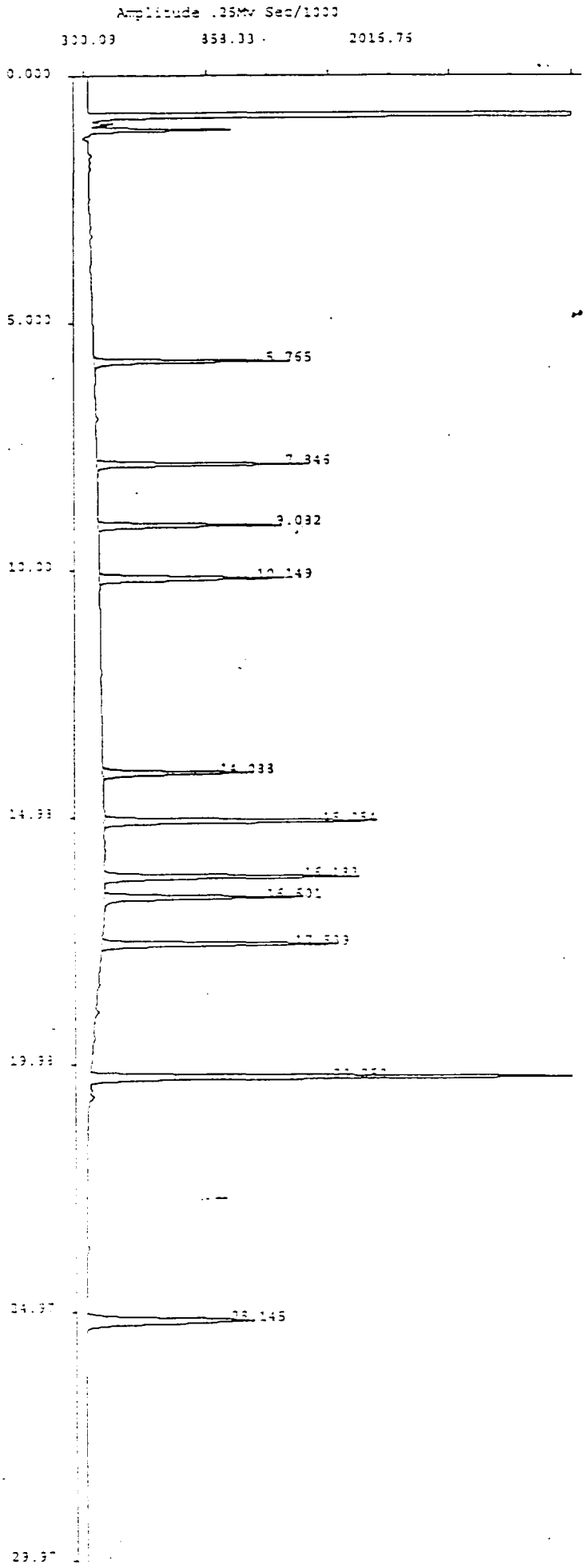
Sample Name : TCP STANDARD
Lab Id : 0.010 UG/ML
Inst Id & Col : AD8_1, DB608
Volume Injected: 1.0 uL Multilevel : False
Peak Processor : Genie Application : Loop
Calculation : ExternalSTD Quantitation: AreaUnits
Result File : /DATA/RESULT/D8P24NOV070.RES
Inject Time : 1113 27Nov1998
Run Status : RunStatusOK

Pk #	RT	Area	Code	MASSNG	Name
1	2.94	14291	BB	.003	
2	3.11	296372	BB	.061	2,4,5-TCP
3	3.62	11679	BB	.003	
4	4.07	6343	BB	.001	
5	5.30	6522	BB	.001	
6	5.18	27935	BB	.006	
7	5.35	4078	BB	.001	
8	7.03	6941	BB	.002	
9	8.65	29118	BB	.006	
10	9.23	7527	BB	.002	
11	10.39	7480	BB	.002	
12	10.90	5142	BB	.001	
13	12.04	9266	BB	.002	
14	13.36	49497	BB	.011	
15	14.93	38900	BB	.001	4,4'-DDE
16	15.07	4084	BB	.000	DIELDRIN
17	25.23	31767	BB	.001	DCB
18	27.03	14416	BB	.003	

Total Area: 572359

Method File: /DATA/METHOD/QD8P22NOV.MTE
Format File: /DATA/FORMAT/DUAL_COL.FMT
Report Time: 1513 27Nov1998

112798



Celmic Corporation Pest/PCB Report

Sample Name : INDAM0A
Lab Id : INDAM0A ,I
Inst Id & Col : AD8_1, DB608
Volume Injected: 1.0 uL Multilevel : False
Peak Processor : Genie Application : Loop
Calculation : ExternalSTD Quantitation: AreaUnits
Result File : /DATA/RESULT/D8P22NOV012.RES
Inject Time : 0039 23Nov1998
Run Status : EndOffBaseline
SignalOverload
SpecialIntog

V. 11/23/98

Mass of inj

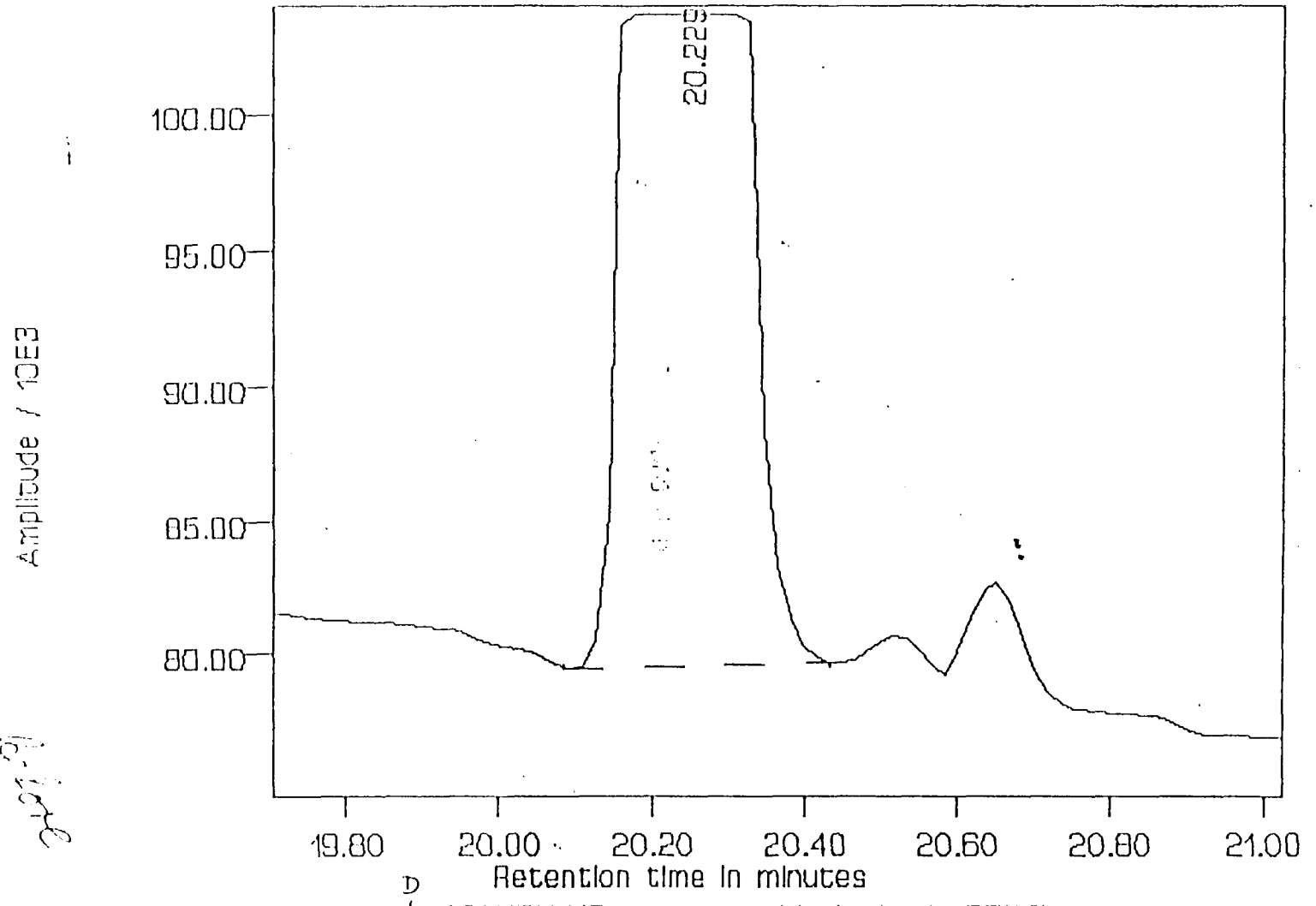
Pk #	RT	Area	Code	MASSNG	Name	
1	5.77	722941	BB	.020	TCX	.020
2	7.85	783322	BB	.020	ALPHA-BHC	
3	9.08	731988	BB	.020	GAMMA-BHC	
4	10.15	830386	BB	.020	HEPTACHLOR	
5	14.03	570534	BB	.020	ENDOSULF. I	
6	15.05	1243455	BB	.040	DIELDRIN	.040
7	16.18	1179227	BB	.040	ENDRIN	
8	16.60	935242	BB	.040	4,4'-DDD	
9	17.54	1026928	BB	.040	4,4'-DDT	
10	20.25	2232496	FF	.200	METHOXYCHLOR	.200
11	25.15	1180342	BB	.040	DCB	.040

Total Area: 11552914

Method File: /DATA/METHOD/INDABQ8.MTH
Format File: /DATA/FORMAT/DUAL_COL.FMT
Report Time: 1501 23Nov1998

ORIGINAL FOUND
IN PEST / PCB LAB

Sample : INDAMOA Injected : MON NOV 23, 1998 12:39:33 AM



Result : D *8P22NOV012 Method : QD8P22NOV

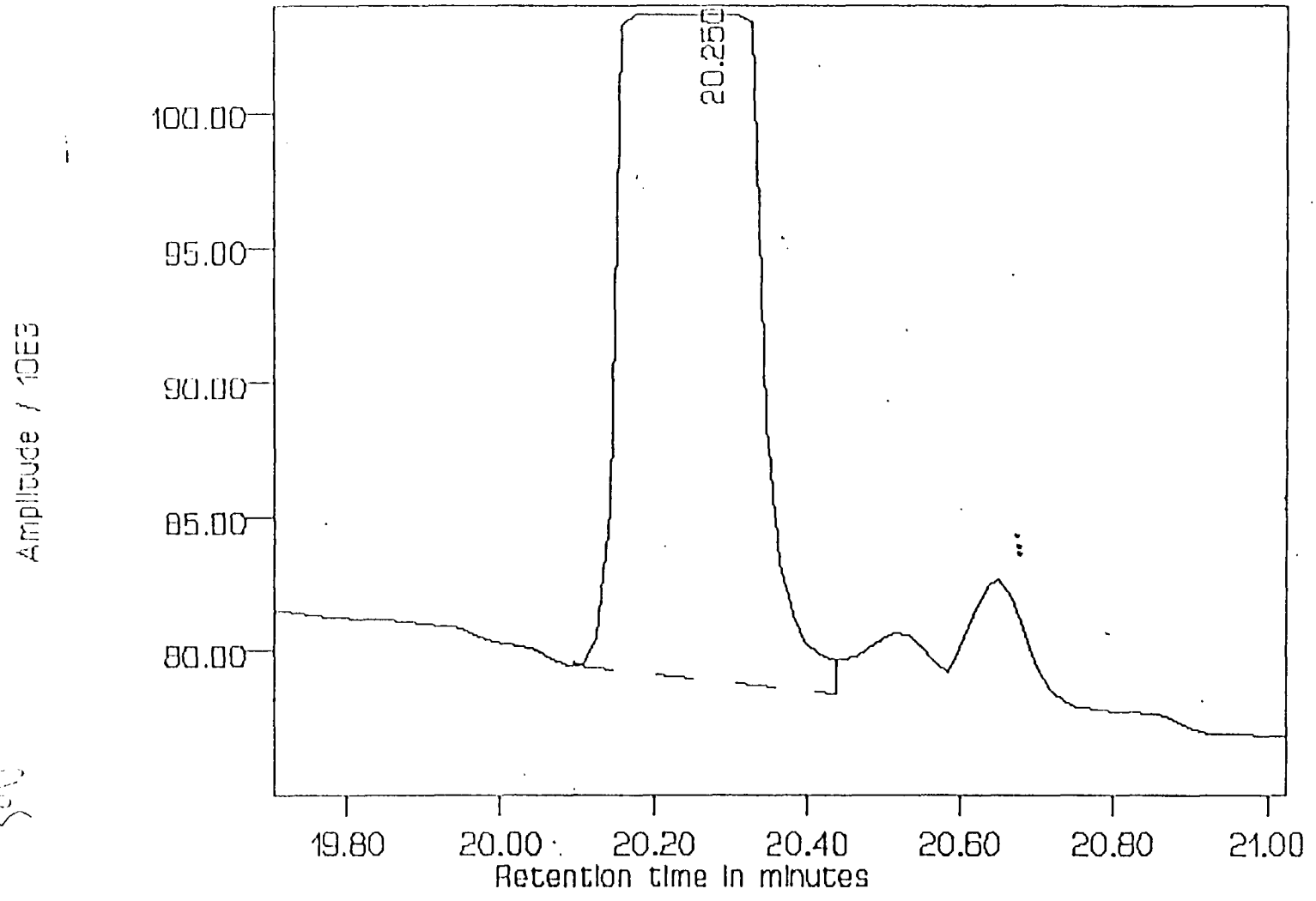
11204 8/p

11259 8/5

ORIGINAL FOUND IN PEST / PCB LAB

1539

Sample : INDAMOA Injected : MON NOV 23, 1998 12:39:33 AM



Result : D8P22NOV012 Method : QD8P22NOV

ORIGINAL FOUND IN PEST IPCB FILE

1510

CEIMIC

TOTAL AND DISSOLVED METALS AND CYANIDE
COVER PAGE - INORGANIC ANALYSIS DATA PACKAGE

Contract: Case 0291F SDG No.: D00064

Lab Code: CEIMIC Case No.: 990802 SAS No.:

SOW No.: ILM04.0

Sample No.	Lab Sample ID.
D00064	990802-01
D00064D	990802-01D
D00064S	990802-01S
D00065	990802-02
D00066	990802-03
D00067	990802-04
D00068	990802-05
D00068D	990802-05D
D00068S	990802-05S
D00069	990802-06
D00070	990802-07
D00071	990802-08
D00072	990802-09
D00072D	990802-09D
D00072S	990802-09S
D00073	990802-10
D00074	990802-11
D00075	990802-12

Were ICP interelement corrections applied? Yes/No YES

Were ICP background corrections applied? Yes/No YES

If yes-were raw data generated before application of background corrections? Yes/No NO

Comments:

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on floppy diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: Daniel Tortorelli Name: DANIEL TORTORELLI

Date: 10/12/99 Title: INORGANIC LAB MGR.

1511

CEIMIC

TOTAL AND DISSOLVED METALS AND CYANIDE
COVER PAGE - INORGANIC ANALYSIS DATA PACKAGE

Contract: Case 0291F SDG No.: D00064

Lab Code: CEIMIC Case No.: 990802 SAS No.:

SOW No.: ILM04.0

Sample No.	Lab Sample ID.
D00076	990802-13
D00080	990802-17
D00081	990802-18
D00084	990802-21

Were ICP interelement corrections applied? Yes/No YES

Were ICP background corrections applied? Yes/No YES

If yes-were raw data generated before application of background corrections? Yes/No NO

Comments:

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on floppy diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: Name:

1512

Date: Title:

TOTAL AND DISSOLVED METALS AND CYANIDE

-1-

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

D00064

Contract: Case 0291F

Lab Code: CEIMIC Case No.: 990802 SAS No.: SDG NO.: D00064

Matrix (soil/water): WATER Lab Sample ID: 990802-01

Level (low/med): LOW Date Received: 09/10/99

Concentration Units (ug/L or mg/kg dry weight): µG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	84.8	B		P
7440-36-0	Antimony	2.5	U		P
7440-38-2	Arsenic	2.8	U		P
7440-39-3	Barium	11.2	B		P
7440-41-7	Beryllium	0.41	U		P
7440-43-9	Cadmium	0.33	U		P
7440-70-2	Calcium	3340	B	N	P
7440-47-3	Chromium	3.5	U		P
7440-48-4	Cobalt	4.7	B		P
7440-50-8	Copper	4.8	B		P
	Cyanide	0.22	U	N	C
7439-89-6	Iron	264			P
7439-92-1	Lead	2.2	U	N	P
7439-95-4	Magnesium	747	B	N	P
7439-96-5	Manganese	14.9	B		P
7439-97-6	Mercury	0.08	B		AV
7440-02-0	Nickel	4.8	U		P
7440-09-7	Potassium	714	B	N	P
7782-49-2	Selenium	4.0	U		P
7440-22-4	Silver	4.9	B		P
7440-23-5	Sodium	5430		N	P
7440-28-0	Thallium	1.8	B		P
7440-62-2	Vanadium	4.5	B		P
7440-66-6	Zinc	186		N	P

Color Before: COLORLES Clarity Before: CLEAR Texture:

Color After: COLORLES Clarity After: CLEAR Artifacts:

Comments:

CEIMIC

TOTAL AND DISSOLVED METALS AND CYANIDE

-1-

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

D00065

Contract: Case 0291F

Lab Code: CEIMIC Case No.: 990802 SAS No.: SDG NO.: D00064

Matrix (soil/water): WATER Lab Sample ID: 990802-02

Level (low/med): LOW Date Received: 09/10/99

Concentration Units (ug/L or mg/kg dry weight): µG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	74.9	B		P
7440-36-0	Antimony	2.5	U		P
7440-38-2	Arsenic	2.8	U		P
7440-39-3	Barium	3.5	B		P
7440-41-7	Beryllium	0.41	U		P
7440-43-9	Cadmium	0.33	U		P
7440-70-2	Calcium	3320	B	N	P
7440-47-3	Chromium	3.5	U		P
7440-48-4	Cobalt	2.8	U		P
7440-50-8	Copper	3.5	U		P
	Cyanide	0.22	U	N	C
7439-89-6	Iron	248			P
7439-92-1	Lead	2.2	U	N	P
7439-95-4	Magnesium	646	B	N	P
7439-96-5	Manganese	15.4			P
7439-97-6	Mercury	0.05	U		AV
7440-02-0	Nickel	4.8	U		P
7440-09-7	Potassium	601	B	N	P
7782-49-2	Selenium	4.0	U		P
7440-22-4	Silver	2.8	B		P
7440-23-5	Sodium	5230		N	P
7440-28-0	Thallium	1.7	U		P
7440-62-2	Vanadium	4.1	U		P
7440-66-6	Zinc	47.5		N	P

Color Before: COLORLES Clarity Before: CLEAR Texture:

Color After: COLORLES Clarity After: CLEAR Artifacts:

Comments:

1514

CEIMIC

TOTAL AND DISSOLVED METALS AND CYANIDE

-1-

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

D00066

Contract: Case 0291F

Lab Code: CEIMIC Case No.: 990802 SAS No.: SDG NO.: D00064

Matrix (soil/water): WATER Lab Sample ID: 990802-03

Level (low/med): LOW Date Received: 09/10/99

Concentration Units (ug/L or mg/kg dry weight): µG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	104	B		P
7440-36-0	Antimony	2.5	U		P
7440-38-2	Arsenic	2.8	U		P
7440-39-3	Barium	3.9	B		P
7440-41-7	Beryllium	0.41	U		P
7440-43-9	Cadmium	0.33	U		P
7440-70-2	Calcium	4190	B	N	P
7440-47-3	Chromium	3.5	U		P
7440-48-4	Cobalt	3.9	B		P
7440-50-8	Copper	3.5	U		P
	Cyanide	0.22	U	N	C
7439-89-6	Iron	268			P
7439-92-1	Lead	2.2	U	N	P
7439-95-4	Magnesium	767	B	N	P
7439-96-5	Manganese	20.4			P
7439-97-6	Mercury	0.08	B		AV
7440-02-0	Nickel	4.8	U		P
7440-09-7	Potassium	799	B	N	P
7782-49-2	Selenium	4.0	U		P
7440-22-4	Silver	5.2	B		P
7440-23-5	Sodium	5770		N	P
7440-28-0	Thallium	1.7	U		P
7440-62-2	Vanadium	5.9	B		P
7440-66-6	Zinc	48.2		N	P

Color Before: COLORLES Clarity Before: CLEAR Texture:

Color After: COLORLES Clarity After: CLEAR Artifacts:

Comments:

1515

CEIMIC

TOTAL AND DISSOLVED METALS AND CYANIDE

-1-

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

D00067

Contract: Case 0291F

Lab Code: CEIMIC Case No.: 990802 SAS No.: SDG NO.: D00064

Matrix (soil/water): WATER Lab Sample ID: 990802-04

Level (low/med): LOW Date Received: 09/10/99

Concentration Units (ug/L or mg/kg dry weight): µG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	72.9	B		P
7440-36-0	Antimony	2.5	U		P
7440-38-2	Arsenic	2.8	U		P
7440-39-3	Barium	3.0	B		P
7440-41-7	Beryllium	0.41	U		P
7440-43-9	Cadmium	0.33	U		P
7440-70-2	Calcium	3360	B	N	P
7440-47-3	Chromium	3.5	U		P
7440-48-4	Cobalt	4.7	B		P
7440-50-8	Copper	3.5	U		P
	Cyanide	0.22	U	N	C
7439-89-6	Iron	234			P
7439-92-1	Lead	59.2		N	P
7439-95-4	Magnesium	587	B	N	P
7439-96-5	Manganese	16.4			P
7439-97-6	Mercury	0.08	B		AV
7440-02-0	Nickel	7.9	B		P
7440-09-7	Potassium	366	B	N	P
7782-49-2	Selenium	4.0	U		P
7440-22-4	Silver	4.0	B		P
7440-23-5	Sodium	5390		N	P
7440-28-0	Thallium	1.7	U		P
7440-62-2	Vanadium	5.2	B		P
7440-66-6	Zinc	41.2		N	P

Color Before: COLORLES Clarity Before: CLEAR Texture:

Color After: COLORLES Clarity After: CLEAR Artifacts:

Comments:

CEIMIC

TOTAL AND DISSOLVED METALS AND CYANIDE

-1-

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

D00068

Contract: Case 0291F

Lab Code: CEIMIC Case No.: 990802 SAS No.: SDG NO.: D00064

Matrix (soil/water): SOIL Lab Sample ID: 990802-05

Level (low/med): LOW Date Received: 09/10/99

% Solids: 68.2

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	7960			P
7440-36-0	Antimony	0.63	U	N	P
7440-38-2	Arsenic	4.5		N	P
7440-39-3	Barium	32.6	B		P
7440-41-7	Beryllium	1.0	B		P
7440-43-9	Cadmium	0.08	U		P
7440-70-2	Calcium	1490		N	P
7440-47-3	Chromium	13.2			P
7440-48-4	Cobalt	4.9	B		P
7440-50-8	Copper	5.9	B		P
	Cyanide	0.03	U	N	C
7439-89-6	Iron	10200			P
7439-92-1	Lead	12.0			P
7439-95-4	Magnesium	2040			P
7439-96-5	Manganese	158			P
7439-97-6	Mercury	0.06	B		AV
7440-02-0	Nickel	6.8	B		P
7440-09-7	Potassium	1040	B	N	P
7782-49-2	Selenium	1.0	U		P
7440-22-4	Silver	3.3			P
7440-23-5	Sodium	80.4	B	N	P
7440-28-0	Thallium	0.58	B		P
7440-62-2	Vanadium	17.3			P
7440-66-6	Zinc	60.5			P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

1517

CEIMIC

TOTAL AND DISSOLVED METALS AND CYANIDE

-1-

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

D00069

Contract: Case 0291F

Lab Code: CEIMIC Case No.: 990802 SAS No.: SDG NO.: D00064

Matrix (soil/water): SOIL Lab Sample ID: 990802-06

Level (low/med): LOW Date Received: 09/10/99

% Solids: 81.2

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	3330			P
7440-36-0	Antimony	0.56	U	N	P
7440-38-2	Arsenic	1.2	B	N	P
7440-39-3	Barium	15.5	B		P
7440-41-7	Beryllium	0.49	B		P
7440-43-9	Cadmium	0.07	U		P
7440-70-2	Calcium	634	B	N	P
7440-47-3	Chromium	4.5			P
7440-48-4	Cobalt	3.4	B		P
7440-50-8	Copper	2.6	B		P
	Cyanide	0.03	U	N	C
7439-89-6	Iron	5640			P
7439-92-1	Lead	6.5			P
7439-95-4	Magnesium	1140			P
7439-96-5	Manganese	82.4			P
7439-97-6	Mercury	0.03	B		AV
7440-02-0	Nickel	4.9	B		P
7440-09-7	Potassium	586	B	N	P
7782-49-2	Selenium	0.90	U		P
7440-22-4	Silver	1.4	B		P
7440-23-5	Sodium	38.0	B	N	P
7440-28-0	Thallium	0.38	U		P
7440-62-2	Vanadium	9.3	B		P
7440-66-6	Zinc	38.7			P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

1513

CEIMIC

TOTAL AND DISSOLVED METALS AND CYANIDE

-1-

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

D00070

Contract: Case 0291F

Lab Code: CEIMIC Case No.: 990802 SAS No.: SDG NO.: D00064

Matrix (soil/water): SOIL Lab Sample ID: 990802-07

Level (low/med): LOW Date Received: 09/10/99

% Solids: 66.7

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	5640			P
7440-36-0	Antimony	0.73	U	N	P
7440-38-2	Arsenic	7.0		N	P
7440-39-3	Barium	24.9	B		P
7440-41-7	Beryllium	0.58	B		P
7440-43-9	Cadmium	0.10	U		P
7440-70-2	Calcium	914	B	N	P
7440-47-3	Chromium	10.6			P
7440-48-4	Cobalt	4.6	B		P
7440-50-8	Copper	4.6	B		P
	Cyanide	0.03	U		C
7439-89-6	Iron	8060			P
7439-92-1	Lead	12.5			P
7439-95-4	Magnesium	1910			P
7439-96-5	Manganese	181			P
7439-97-6	Mercury	0.06	B		AV
7440-02-0	Nickel	7.3	B		P
7440-09-7	Potassium	953	B	N	P
7782-49-2	Selenium	1.2	U		P
7440-22-4	Silver	2.4	B		P
7440-23-5	Sodium	77.8	B	N	P
7440-28-0	Thallium	0.49	U		P
7440-62-2	Vanadium	14.1	B		P
7440-66-6	Zinc	55.1			P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

1513

Comments:

CEIMIC

TOTAL AND DISSOLVED METALS AND CYANIDE

-1-

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

D00072

Contract: Case 0291F

Lab Code: CEIMIC Case No.: 990802 SAS No.: SDG NO.: D00064

Matrix (soil/water): WATER Lab Sample ID: 990802-09

Level (low/med): LOW Date Received: 09/10/99

Concentration Units (ug/L or mg/kg dry weight): µG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	104	B		P
7440-36-0	Antimony	2.5	U		P
7440-38-2	Arsenic	2.8	U		P
7440-39-3	Barium	5.6	B		P
7440-41-7	Beryllium	0.41	U		P
7440-43-9	Cadmium	0.33	U		P
7440-70-2	Calcium	3250	B	N	P
7440-47-3	Chromium	3.5	U		P
7440-48-4	Cobalt	8.6	B		P
7440-50-8	Copper	7.1	B		P
7439-89-6	Iron	140			P
7439-92-1	Lead	7.5		N	P
7439-95-4	Magnesium	776	B	N	P
7439-96-5	Manganese	6.0	B		P
7439-97-6	Mercury	0.10	B		AV
7440-02-0	Nickel	9.9	B		P
7440-09-7	Potassium	692	B	N	P
7782-49-2	Selenium	4.0	U		P
7440-22-4	Silver	2.8	B		P
7440-23-5	Sodium	5120		N	P
7440-28-0	Thallium	1.7	U		P
7440-62-2	Vanadium	10.3	B		P
7440-66-6	Zinc	32.6		N	P

Color Before: COLORLES Clarity Before: CLEAR Texture:

Color After: COLORLES Clarity After: CLEAR Artifacts:

Comments: DISSOLVED

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CEIMIC

TOTAL AND DISSOLVED METALS AND CYANIDE

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INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

D00073

Contract: Case 0291F

Lab Code: CEIMIC Case No.: 990802 SAS No.: SDG NO.: D00064

Matrix (soil/water): WATER Lab Sample ID: 990802-10

Level (low/med): LOW Date Received: 09/10/99

Concentration Units (ug/L or mg/kg dry weight): µG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	34.2	U		P
7440-36-0	Antimony	2.5	U		P
7440-38-2	Arsenic	2.8	U		P
7440-39-3	Barium	2.6	B		P
7440-41-7	Beryllium	0.41	U		P
7440-43-9	Cadmium	0.33	U		P
7440-70-2	Calcium	3370	B	N	P
7440-47-3	Chromium	3.5	U		P
7440-48-4	Cobalt	2.8	U		P
7440-50-8	Copper	3.5	U		P
7439-89-6	Iron	138			P
7439-92-1	Lead	2.2	U	N	P
7439-95-4	Magnesium	612	B	N	P
7439-96-5	Manganese	7.5	B		P
7439-97-6	Mercury	0.08	B		AV
7440-02-0	Nickel	4.8	U		P
7440-09-7	Potassium	393	B	N	P
7782-49-2	Selenium	4.0	U		P
7440-22-4	Silver	4.1	B		P
7440-23-5	Sodium	5310		N	P
7440-28-0	Thallium	1.7	U		P
7440-62-2	Vanadium	4.1	U		P
7440-66-6	Zinc	22.6		N	P

Color Before: COLORLES Clarity Before: CLEAR Texture:

Color After: COLORLES Clarity After: CLEAR Artifacts:

Comments: DISSOLVED

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CEIMIC

TOTAL AND DISSOLVED METALS AND CYANIDE

-1-

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

D00074

Contract: Case 0291F

Lab Code: CEIMIC Case No.: 990802 SAS No.: SDG NO.: D00064

Matrix (soil/water): WATER Lab Sample ID: 990802-11

Level (low/med): LOW Date Received: 09/10/99

Concentration Units (ug/L or mg/kg dry weight): µG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	60.1	B		P
7440-36-0	Antimony	2.5	U		P
7440-38-2	Arsenic	2.8	U		P
7440-39-3	Barium	2.6	B		P
7440-41-7	Beryllium	0.41	U		P
7440-43-9	Cadmium	0.33	U		P
7440-70-2	Calcium	4150	B	N	P
7440-47-3	Chromium	3.5	U		P
7440-48-4	Cobalt	2.8	U		P
7440-50-8	Copper	3.5	U		P
7439-89-6	Iron	172			P
7439-92-1	Lead	5.9		N	P
7439-95-4	Magnesium	620	B	N	P
7439-96-5	Manganese	11.4	B		P
7439-97-6	Mercury	0.10	B		AV
7440-02-0	Nickel	5.4	B		P
7440-09-7	Potassium	503	B	N	P
7782-49-2	Selenium	4.0	U		P
7440-22-4	Silver	3.8	B		P
7440-23-5	Sodium	5760		N	P
7440-28-0	Thallium	1.7	U		P
7440-62-2	Vanadium	8.8	B		P
7440-66-6	Zinc	35.7		N	P

Color Before: COLORLES Clarity Before: CLEAR Texture:

Color After: COLORLES Clarity After: CLEAR Artifacts:

Comments: DISSOLVED

1523

CEIMIC

TOTAL AND DISSOLVED METALS AND CYANIDE

-1-

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

D00075

Contract: Case 0291F

Lab Code: CEIMIC Case No.: 990802 SAS No.: SDG NO.: D00064

Matrix (soil/water): WATER Lab Sample ID: 990802-12

Level (low/med): LOW Date Received: 09/10/99

Concentration Units (ug/L or mg/kg dry weight): µG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	53.1	B		P
7440-36-0	Antimony	2.5	U		P
7440-38-2	Arsenic	2.8	U		P
7440-39-3	Barium	1.7	B		P
7440-41-7	Beryllium	0.41	U		P
7440-43-9	Cadmium	0.33	U		P
7440-70-2	Calcium	3490	B	N	P
7440-47-3	Chromium	3.5	U		P
7440-48-4	Cobalt	5.5	B		P
7440-50-8	Copper	3.5	U		P
7439-89-6	Iron	162			P
7439-92-1	Lead	3.6		N	P
7439-95-4	Magnesium	630	B	N	P
7439-96-5	Manganese	8.5	B		P
7439-97-6	Mercury	0.06	B		AV
7440-02-0	Nickel	4.9	B		P
7440-09-7	Potassium	390	B	N	P
7782-49-2	Selenium	4.0	U		P
7440-22-4	Silver	2.9	B		P
7440-23-5	Sodium	5500		N	P
7440-28-0	Thallium	1.7	U		P
7440-62-2	Vanadium	4.1	U		P
7440-66-6	Zinc	24.1		N	P

Color Before: COLORLES Clarity Before: CLEAR Texture:

Color After: COLORLES Clarity After: CLEAR Artifacts:

Comments: DISSOLVED

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CEIMIC

TOTAL AND DISSOLVED METALS AND CYANIDE

-1-

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

D00076

Contract: Case 0291F

Lab Code: CEIMIC Case No.: 990802 SAS No.: SDG NO.: D00064

Matrix (soil/water): WATER Lab Sample ID: 990802-13

Level (low/med): LOW Date Received: 09/10/99

Concentration Units (ug/L or mg/kg dry weight): µG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	34.2	U		P
7440-36-0	Antimony	2.5	U		P
7440-38-2	Arsenic	2.8	U		P
7440-39-3	Barium	1.0	U		P
7440-41-7	Beryllium	0.41	U		P
7440-43-9	Cadmium	0.33	U		P
7440-70-2	Calcium	59.5	B	N	P
7440-47-3	Chromium	3.5	U		P
7440-48-4	Cobalt	3.9	B		P
7440-50-8	Copper	3.5	U		P
	Cyanide	0.22	U	N	C
7439-89-6	Iron	42.4	B		P
7439-92-1	Lead	2.2	U	N	P
7439-95-4	Magnesium	55.7	U	N	P
7439-96-5	Manganese	1.7	U		P
7439-97-6	Mercury	0.10	B		AV
7440-02-0	Nickel	4.8	U		P
7440-09-7	Potassium	198	U	N	P
7782-49-2	Selenium	4.0	U		P
7440-22-4	Silver	4.4	B		P
7440-23-5	Sodium	149	B	N	P
7440-28-0	Thallium	1.7	U		P
7440-62-2	Vanadium	5.9	B		P
7440-66-6	Zinc	21.0		N	P

Color Before: COLORLES Clarity Before: CLEAR Texture:

Color After: COLORLES Clarity After: CLEAR Artifacts:

Comments:

CEIMIC

TOTAL AND DISSOLVED METALS AND CYANIDE

-1-

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

D00080

Contract: Case 0291F

Lab Code: CEIMIC Case No.: 990802 SAS No.: SDG NO.: D00064

Matrix (soil/water): SOIL Lab Sample ID: 990802-17

Level (low/med): LOW Date Received: 09/10/99

% Solids: 100.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	4720			P
7440-36-0	Antimony	3700	B	N	P
7440-38-2	Arsenic	617000		N	P
7440-39-3	Barium	173			P
7440-41-7	Beryllium	1.4			P
7440-43-9	Cadmium	62.9	U		P
7440-70-2	Calcium	31100		N	P
7440-47-3	Chromium	4.2			P
7440-48-4	Cobalt	21.0			P
7440-50-8	Copper	1440			P
7439-89-6	Iron	14400			P
7439-92-1	Lead	1560000			P
7439-95-4	Magnesium	13300			P
7439-96-5	Manganese	908			P
7440-02-0	Nickel	14.0			P
7440-09-7	Potassium	965		N	P
7782-49-2	Selenium	762	U		P
7440-22-4	Silver	4040			P
7440-23-5	Sodium	279	B	N	P
7440-28-0	Thallium	324	U		P
7440-62-2	Vanadium	6.6	B		P
7440-66-6	Zinc	19.7			P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

CEIMIC

TOTAL AND DISSOLVED METALS AND CYANIDE

-1-

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

D00081

Contract: Case 0291F

Lab Code: CEIMIC Case No.: 990802 SAS No.: SDG NO.: D00064

Matrix (soil/water): WATER Lab Sample ID: 990802-18

Level (low/med): LOW Date Received: 09/10/99

Concentration Units (ug/L or mg/kg dry weight): µG/L

CAS No.	Analyte	Concentration	C	Q	M
	Cyanide	17.8			C

Color Before: Clarity Before: Texture:

Color After: Clarity After: Artifacts:

Comments:

1527

CEIMIC

TOTAL AND DISSOLVED METALS AND CYANIDE

-1-

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

D00084

Contract: Case 0291F

Lab Code: CEIMIC Case No.: 990802 SAS No.: SDG NO.: D00064

Matrix (soil/water): WATER Lab Sample ID: 990802-21

Level (low/med): LOW Date Received: 09/10/99

Concentration Units (ug/L or mg/kg dry weight): µG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	31700			P
7440-36-0	Antimony	9.3	B		P
7440-38-2	Arsenic	2.8	U		P
7440-39-3	Barium	1.0	U		P
7440-41-7	Beryllium	20.2			P
7440-43-9	Cadmium	0.79	B		P
7440-70-2	Calcium	30.6	U	N	P
7440-47-3	Chromium	17.8			P
7440-48-4	Cobalt	740			P
7440-50-8	Copper	57.8			P
7439-89-6	Iron	32.2	B		P
7439-92-1	Lead	2.2	U	N	P
7439-95-4	Magnesium	55.7	U	N	P
7439-96-5	Manganese	149			P
7440-02-0	Nickel	786			P
7440-09-7	Potassium	198	U	N	P
7782-49-2	Selenium	4.0	U		P
7440-22-4	Silver	41.7			P
7440-23-5	Sodium	109	B	N	P
7440-28-0	Thallium	16.4			P
7440-62-2	Vanadium	4.1	U		P
7440-66-6	Zinc	15.1	B	N	P

Color Before: COLORLES Clarity Before: CLEAR Texture:

Color After: COLORLES Clarity After: CLEAR Artifacts:

Comments:

Form I - IN

TOTAL AND DISSOLVED METALS AND CYANIDE

-2A-

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Contract: Case 0291F

Lab Code: CEIMIC Case No.: 990802 SAS No.: SDG NO.: D00064

Initial Calibration Source: IV,CPI

Continuing Calibration Source: IV,CPI

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					M
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Aluminum	5000.0	5016.30	100.3	10000.0	10692.00	106.9	10193.00	101.9	P
Antimony	25.0	24.15	96.6	50.0	49.57	99.1	50.20	100.4	P
Arsenic	25.0	24.05	96.2	50.0	48.55	97.1	48.78	97.6	P
Barium	5000.0	4902.00	98.0	10000.0	10275.00	102.8	10101.00	101.0	P
Beryllium	125.0	122.10	97.7	250.0	254.47	101.8	250.14	100.1	P
Cadmium	12.5	12.56	100.5	25.0	24.56	98.2	24.92	99.7	P
Calcium	12500.0	12418.00	99.3	25000.0	26255.00	105.0	25244.00	101.0	P
Chromium	500.0	487.05	97.4	1000.0	1035.50	103.6	1003.30	100.3	P
Cobalt	1250.0	1226.40	98.1	2500.0	2556.90	102.3	2489.60	99.6	P
Copper	625.0	596.79	95.5	1250.0	1250.30	100.0	1223.60	97.9	P
Cyanide	80.0	75.77	94.7	200.0	204.46	102.2	203.30	101.7	C
Iron	2500.0	2491.60	99.7	5000.0	5296.60	105.9	5059.40	101.2	P
Lead	25.0	24.64	98.6	50.0	49.36	98.7	50.40	100.8	P
Magnesium	12500.0	12382.00	99.1	25000.0	26203.00	104.8	25517.00	102.1	P
Manganese	1250.0	1219.60	97.6	2500.0	2548.30	101.9	2483.30	99.3	P
Mercury	2.00	2.04	102.0	5.00	4.12	82.4	4.37	87.4	AV
Nickel	1250.0	1218.80	97.5	2500.0	2537.70	101.5	2470.60	98.8	P
Potassium	12500.0	12107.00	96.9	25000.0	25686.00	102.7	24951.00	99.8	P
Selenium	25.0	25.09	100.4	50.0	52.66	105.3	51.90	103.8	P
Silver	25.0	25.90	103.6	50.0	52.23	104.5	51.57	103.1	P
Sodium	12500.0	12331.00	98.6	25000.0	25765.00	103.1	25348.00	101.4	P
Thallium	25.0	24.88	99.5	50.0	50.08	100.2	49.45	98.9	P
Vanadium	1250.0	1250.30	100.0	2500.0	2612.10	104.5	2549.40	102.0	P
Zinc	1250.0	1207.20	96.6	2500.0	2505.30	100.2	2444.40	97.8	P

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

TOTAL AND DISSOLVED METALS AND CYANIDE

-2A-

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Contract: Case 0291F

Lab Code: CEIMIC Case No.: 990802 SAS No.: SDG NO.: D00064

Initial Calibration Source:

Continuing Calibration Source: IV,CPI

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	M
Aluminum				10000.0	10517.00	105.2	10358.00	103.6	P
Antimony				50.0	51.12	102.2	51.03	102.1	P
Arsenic				50.0	48.85	97.7	49.96	99.9	P
Barium				10000.0	10451.00	104.5	10217.00	102.2	P
Beryllium				250.0	258.79	103.5	252.85	101.1	P
Cadmium				25.0	24.76	99.0	25.06	100.2	P
Calcium				25000.0	26284.00	105.1	25258.00	101.0	P
Chromium				1000.0	1041.00	104.1	1010.30	101.0	P
Cobalt				2500.0	2576.50	103.1	2495.80	99.8	P
Copper				1250.0	1265.30	101.2	1245.80	99.7	P
Cyanide				200.0	204.63	102.3			C
Iron				5000.0	5248.50	105.0	5113.00	102.3	P
Lead				50.0	50.76	101.5	52.14	104.3	P
Magnesium				25000.0	26363.00	105.5	25914.00	103.7	P
Manganese				2500.0	2576.10	103.0	2499.70	100.0	P
Mercury				4.00	4.52	113.0	4.55	113.8	AV
Nickel				2500.0	2544.60	101.8	2475.60	99.0	P
Potassium				25000.0	25763.00	103.1	24982.00	99.9	P
Selenium				50.0	54.34	108.7	52.74	105.5	P
Silver				50.0	53.18	106.4	54.24	108.5	P
Sodium				25000.0	26154.00	104.6	25864.00	103.5	P
Thallium				50.0	49.13	98.3	51.07	102.1	P
Vanadium				2500.0	2637.90	105.5	2565.60	102.6	P
Zinc				2500.0	2531.60	101.3	2479.30	99.2	P

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(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

TOTAL AND DISSOLVED METALS AND CYANIDE

-2A-

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Contract: Case 0291F

Lab Code: CEIMIC Case No.: 990802 SAS No.: SDG NO.: D00064

Initial Calibration Source:

Continuing Calibration Source: IV,CPI

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					M
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Aluminum				10000.0	10844.00	108.4			P
Antimony				50.0	51.27	102.5			P
Arsenic				50.0	51.12	102.2			P
Barium				10000.0	10571.00	105.7			P
Beryllium				250.0	258.43	103.4			P
Cadmium				25.0	24.74	99.0			P
Calcium				25000.0	25822.00	103.3			P
Chromium				1000.0	1033.60	103.4			P
Cobalt				2500.0	2548.30	101.9			P
Copper				1250.0	1285.20	102.8			P
Iron				5000.0	5301.60	106.0			P
Lead				50.0	51.09	102.2			P
Magnesium				25000.0	26743.00	107.0			P
Manganese				2500.0	2559.20	102.4			P
Mercury				4.00	4.63	115.8			AV
Nickel				2500.0	2518.50	100.7			P
Potassium				25000.0	25555.00	102.2			P
Selenium				50.0	52.99	106.0			P
Silver				50.0	55.01	110.0			P
Sodium				25000.0	26618.00	106.5			P
Thallium				50.0	49.38	98.8			P
Vanadium				2500.0	2629.80	105.2			P
Zinc				2500.0	2534.80	101.4			P

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

TOTAL AND DISSOLVED METALS AND CYANIDE

-2A-

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Contract: Case 0291F

Lab Code: CEIMIC Case No.: 990802 SAS No.: SDG NO.: D00064

Initial Calibration Source: IV,CPI

Continuing Calibration Source: IV,CPI

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					M
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Cyanide	80.0	73.97	92.5	200.0	201.08	100.5	200.60	100.3	C
Mercury	2.50	2.18	87.2	5.00	4.43	88.6	4.41	88.2	AV

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

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TOTAL AND DISSOLVED METALS AND CYANIDE

-2A-

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Contract: Case 0291F

Lab Code: CEIMIC Case No.: 990802 SAS No.: SDG NO.: D00064

Initial Calibration Source:

Continuing Calibration Source: IV,CPI

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					M
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Mercury				4.00	4.43	110.8	4.44	111.0	AV

1533

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

TOTAL AND DISSOLVED METALS AND CYANIDE

-2A-

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Contract: Case 0291F

Lab Code: CEIMIC Case No.: 990802 SAS No.: SDG NO.: D00064

Initial Calibration Source: IV,CPI

Continuing Calibration Source: IV,CPI

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					M
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Cyanide	80.0	79.01	98.8	200.0	202.66	101.3	201.17	100.6	C

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

TOTAL AND DISSOLVED METALS AND CYANIDE

-2A-

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Contract: Case 0291F

Lab Code: CEIMIC Case No.: 990802 SAS No.: SDG NO.: D00064

Initial Calibration Source:

Continuing Calibration Source: IV,CPI

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					M
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Cyanide				200.0	201.51	100.8			C

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

TOTAL AND DISSOLVED METALS AND CYANIDE
-2B-

CRDL STANDARD FOR AA AND ICP

Contract: Case 0291F

Lab Code: CEIMIC Case No.: 990802 SAS No.: SDG No.: D00064

AA CRDL Standard Source:

ICP CRDL Standard Source: CPI

Concentration Units: ug/L

Analyte	CRDL Standard for AA			CRDL Standard for ICP				
				Initial			Final	
	True	Found	%R	True	Found	%R	Found	%R
Aluminum								
Antimony				120.0	124.24	103.5	116.44	97.0
Arsenic				20.0	17.45	87.3	18.92	94.6
Barium								
Beryllium				10.0	9.54	95.4	9.72	97.2
Cadmium				10.0	9.99	99.9	9.75	97.5
Calcium								
Chromium				20.0	19.44	97.2	17.45	87.3
Cobalt				100.0	104.87	104.9	101.74	101.7
Copper				50.0	48.76	97.5	46.40	92.8
Iron								
Lead				6.0	5.50	91.7	5.79	96.5
Magnesium								
Manganese				30.0	31.24	104.1	28.76	95.9
Mercury	0.20	0.22	110.0					
Nickel				80.0	87.80	109.8	82.37	103.0
Potassium								
Selenium				10.0	8.84	88.4	11.89	118.9
Silver				20.0	20.47	102.3	23.51	117.6
Sodium								
Thallium				20.0	19.63	98.2	19.72	98.6
Vanadium				100.0	109.80	109.8	103.90	103.9
Zinc				40.0	42.75	106.9	42.02	105.1

TOTAL AND DISSOLVED METALS AND CYANIDE
-2B-

CRDL STANDARD FOR AA AND ICP

Contract: Case 0291F

Lab Code: CEIMIC Case No.: 990802 SAS No.: SDG No.: D00064

AA CRDL Standard Source: CPI

ICP CRDL Standard Source:

Concentration Units: ug/L

Analyte	CRDL Standard for AA			CRDL Standard for ICP				
				Initial			Final	
	True	Found	%R	True	Found	%R	Found	%R
Mercury	0.20	0.26	130.0					

1537

TOTAL AND DISSOLVED METALS AND CYANIDE

-3-

BLANKS

Contract: Case 0291F

Lab Code: CEIMIC Case No.: 990802 SAS No.: SDG NO.: D00064

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Preparation Blank	C	M
Aluminum	34.2	U	126.6	B	34.2	U	49.4	B	39.620	B	P
Antimony	2.5	U	2.5	U	2.5	U	2.5	U	2.500	U	P
Arsenic	-3.7	B	2.8	U	-3.9	B	2.8	U	2.800	U	P
Barium	5.2	B	8.7	B	5.2	B	6.9	B	-2.590	B	P
Beryllium	0.4	U	0.5	B	0.4	U	0.5	B	0.410	U	P
Cadmium	0.3	U	0.3	U	0.3	U	0.3	U	0.330	U	P
Calcium	74.4	B	148.8	B	81.9	B	30.6	U	163.840	B	P
Chromium	3.5	U	3.5	U	3.5	U	3.5	U	3.500	U	P
Cobalt	6.3	B	9.4	B	7.0	B	6.3	B	4.690	B	P
Copper	3.5	U	3.9	B	3.5	U	3.5	U	3.500	U	P
Cyanide	-2.6	B	-1.3	B	-1.1	B	-1.6	B			C
Iron	8.9	U	24.9	B	8.9	U	8.9	U	20.200	B	P
Lead	2.2	U	2.2	U	2.2	U	2.2	U	2.200	U	P
Magnesium	55.7	U	205.3	B	74.2	B	62.2	B	55.700	U	P
Manganese	1.7	U	2.5	B	1.7	U	1.7	U	1.700	U	P
Mercury	0.04	U	0.04	U	0.04	U	0.04	U	0.064	B	AV
Nickel	4.8	U	12.8	B	4.9	B	4.8	U	6.410	B	P
Potassium	-311.1	B	197.5	U	197.5	U	197.5	U	197.500	U	P
Selenium	4.0	U	4.0	U	4.0	U	4.0	U	4.000	U	P
Silver	2.3	U	2.9	B	2.5	B	2.3	U	2.512	B	P
Sodium	55.9	U	55.9	U	55.9	U	55.9	U	157.620	B	P
Thallium	1.7	U	1.7	U	1.7	U	1.7	U	1.700	U	P
Vanadium	8.1	B	14.7	B	5.9	B	7.4	B	4.100	U	P
Zinc	9.0	U	9.0	U	9.0	U	9.0	U	9.000	U	P

1533

TOTAL AND DISSOLVED METALS AND CYANIDE

BLANKS

Contract: Case 0291F

Lab Code: CEIMIC Case No.: 990802 SAS No.: SDG NO.: D00064

Preparation Blank Matrix (soil/water): SOIL

Preparation Blank Concentration Units (ug/L or mg/kg): MG/KG

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Preparation Blank	C	M
Aluminum			47.4	B	70.3	B			17.408	B	P
Antimony			2.5	U	2.5	U			0.250	U	P
Arsenic			2.8	U	2.8	U			0.280	U	P
Barium			7.4	B	5.2	B			0.864	B	P
Beryllium			0.4	U	0.4	U			0.144	B	P
Cadmium			0.3	U	0.3	U			0.033	U	P
Calcium			30.6	U	-74.5	B			-17.904	B	P
Chromium			3.5	U	-4.9	B			0.700	U	P
Cobalt			6.3	B	2.8	U			2.034	B	P
Copper			3.5	U	3.5	U			0.700	U	P
Cyanide									-0.130	B	C
Iron			8.9	U	22.0	B			3.342	B	P
Lead			2.2	U	2.2	U			0.220	U	P
Magnesium			55.7	U	86.1	B			37.348	B	P
Manganese			1.7	U	1.7	U			0.340	U	P
Mercury			0.04	U	0.04	U					AV
Nickel			4.8	U	4.8	U			2.860	B	P
Potassium			197.5	U	197.5	U			39.500	U	P
Selenium			4.0	U	4.0	U			0.400	U	P
Silver			2.3	U	3.9	B			0.230	U	P
Sodium			55.9	U	55.9	U			11.180	U	P
Thallium			1.7	U	1.7	U			0.170	U	P
Vanadium			6.6	B	4.1	U			1.622	B	P
Zinc			9.0	U	9.0	U			2.008	B	P

TOTAL AND DISSOLVED METALS AND CYANIDE

-3-

BLANKS

Contract: Case 0291F

Lab Code: CEIMIC Case No.: 990802 SAS No.: SDG NO.: D00064

Preparation Blank Matrix (soil/water): SOIL

Preparation Blank Concentration Units (ug/L or mg/kg): MG/KG

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Preparation Blank	C	M
Cyanide	-1.4	B	0.4	U	-0.9	B			-0.101	B	C
Mercury	0.04	U	0.04	U	0.04	U	0.04	U	-0.022	B	AV

1540

TOTAL AND DISSOLVED METALS AND CYANIDE

-3-

BLANKS

Contract: Case 0291F

Lab Code: CEIMIC Case No.: 990802 SAS No.: SDG NO.: D00064

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Preparation Blank	C	M
Mercury			0.04	U							AV

1541

TOTAL AND DISSOLVED METALS AND CYANIDE

-3-

BLANKS

Contract: Case 0291F

Lab Code: CEIMIC Case No.: 990802 SAS No.: SDG NO.: D00064

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Preparation Blank	C	M
Cyanide	-2.8	B	-2.0	B	-1.6	B	-1.8	B	-1.140	B	C

1542

TOTAL AND DISSOLVED METALS AND CYANIDE

BLANKS

Contract: Case 0291F

Lab Code: CEIMIC Case No.: 990802 SAS No.: SDG NO.: D00064

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Preparation Blank	C	M
Cyanide									-1.507	B	C

1543

TOTAL AND DISSOLVED METALS AND CYANIDE
+
ICP INTERFERENCE CHECK SAMPLE

Contract: Case 0291F

Lab Code: CEIMIC Case No.: 990802 SAS No.: SDG NO.: D00064

ICP ID Number: TJA61/61E ICP ICS Source: INOR-VNT-CLPP

Concentration Units): µg/L

Analyte	True Sol.A	True Sol.AB	Initial Found Sol.A	Initial Found Sol.AB	Initial Found %R	Final Found Sol.A	Final Found Sol.AB	Final Found %R
Aluminum	500000	500000	497230	506580.0	101.3	506850	517990.0	103.6
Antimony		600	-1	575.1	95.8	-1	575.8	96.0
Arsenic		100	-2	96.4	96.4	-2	99.2	99.2
Barium		500	11	507.1	101.4	8	516.6	103.3
Beryllium		500	0	496.2	99.2	1	504.3	100.9
Cadmium		50	4	47.7	95.2	2	44.1	88.2
Calcium	500000	500000	477990	488000.0	97.6	476290	483000.0	96.6
Chromium		500	-3	479.6	95.9	1	468.2	93.6
Cobalt		500	-2	472.6	94.5	2	468.7	93.7
Copper		500	-8	485.9	97.2	-9	497.8	99.6
Iron	200000	200000	186360	190390.0	95.2	187500	190830.0	95.4
Lead		50	-3	44.2	88.2	-1	41.7	83.2
Magnesium	500000	500000	490310	498370.0	99.7	503070	513550.0	102.7
Manganese		500	2	473.0	94.6	5	472.4	94.5
Nickel		1000	-3	920.4	92.0	-2	913.0	91.3
Potassium			-308	164.7		3	-76.3	
Selenium		50	9	55.3	110.6	5	52.7	105.4
Silver		200	7	211.1	105.6	7	212.6	106.3
Sodium			-71	52.1		-112	-47.8	
Thallium		100	2	89.6	89.6	7	89.3	89.3
Vanadium		500	11	502.5	100.5	14	503.3	100.7
Zinc		1000	-9	948.6	94.9	-11	968.0	96.8

CEIMIC

TOTAL AND DISSOLVED METALS AND CYANIDE

-5A-

SPIKE SAMPLE RECOVERY

SAMPLE NO.

D00064S

Contract: Case 0291F

Lab Code: CEIMIC Case No.: 990802 SAS SDG NO.: D00064

Matrix (soil/water): WATER Level (low/med): LOW

% Solids for Sample: 0.0

Concentration Units (ug/L or mg/kg dry weight): µG/L

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Aluminum	75 - 125	2063.3999		84.8100	B	2000.00	98.9		P
Antimony	75 - 125	503.9800		2.5000	U	500.00	100.8		P
Arsenic	75 - 125	40.1850		2.8000	U	40.00	100.5		P
Barium	75 - 125	1978.1000		11.2400	B	2000.00	98.3		P
Beryllium	75 - 125	50.0600		0.4100	U	50.00	100.1		P
Cadmium	75 - 125	48.2020		0.3300	U	50.00	96.4		P
Calcium	75 - 125	3381.2000	B	3336.5000	B	2000.00	2.2	N	P
Chromium	75 - 125	200.8500		3.5000	U	200.00	100.4		P
Cobalt	75 - 125	493.8400		4.6900	B	500.00	97.8		P
Copper	75 - 125	237.7700		4.7700	B	250.00	93.2		P
Cyanide	75 - 125	85.5244		0.2200	U	100.00	85.5	N	C
Iron	75 - 125	1234.8000		263.6800		1000.00	97.1		P
Lead	75 - 125	21.5080		2.2000	U	20.00	107.5		P
Magnesium	75 - 125	647.6400	B	746.9800	B	2000.00	-5.0	N	P
Manganese	75 - 125	501.6600		14.9300	B	500.00	97.3		P
Mercury	75 - 125	1.1648		0.0764	B	1.00	108.8		AV
Nickel	75 - 125	498.6600		4.8000	U	500.00	99.7		P
Potassium	75 - 125	576.5000	B	713.7600	B	2000.00	-6.9	N	P
Selenium	75 - 125	10.5900		4.0000	U	10.00	105.9		P
Silver	75 - 125	52.9940		4.9004	B	50.00	96.2		P
Sodium	75 - 125	5405.7998		5430.3999		2000.00	-1.2	N	P
Thallium	75 - 125	49.0080		1.7653	B	50.00	94.5		P
Vanadium	75 - 125	505.3500		4.4600	B	500.00	100.2		P
Zinc	75 - 125	501.0100		186.0700		500.00	63.0	N	P

Comments:

CEIMIC

TOTAL AND DISSOLVED METALS AND CYANIDE

-5A-

SPIKE SAMPLE RECOVERY

SAMPLE NO.

D00068S

Contract: Case 0291F

Lab Code: CEIMIC Case No.: 990802 SAS SDG NO.: D00064

Matrix (soil/water): SOIL Level (low/med): LOW

% Solids for Sample: 68.2

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Aluminum		9272.6282		7962.5045		501.29	261.4		P
Antimony	75 - 125	65.1478		0.6266	U	125.32	52.0	N	P
Arsenic	75 - 125	18.8448		4.4903		10.03	143.1	N	P
Barium	75 - 125	531.2681		32.6391	B	501.29	99.5		P
Beryllium	75 - 125	13.8557		1.0377	B	12.53	102.3		P
Cadmium	75 - 125	11.2099		0.0827	U	12.53	89.4		P
Calcium	75 - 125	1373.6122		1493.1451		501.29	-23.8	N	P
Chromium	75 - 125	63.0975		13.2491		50.13	99.4		P
Cobalt	75 - 125	129.4684		4.9026	B	125.32	99.4		P
Copper	75 - 125	66.5689		5.8626	B	62.66	96.9		P
Cyanide	75 - 125	12.0826		0.0311	U	14.38	84.1	N	C
Iron		13988.5222		10243.1274		250.65	1494.3		P
Lead	75 - 125	17.1569		11.9884		5.01	103.2		P
Magnesium		2081.7357		2044.5651		501.29	7.4		P
Manganese	75 - 125	311.0259		158.1172		125.32	122.0		P
Mercury	75 - 125	0.6642		0.0618	B	0.67	89.9		AV
Nickel	75 - 125	131.5337		6.7925	B	125.32	99.5		P
Potassium	75 - 125	1029.8270	B	1042.0584	B	501.29	-2.4	N	P
Selenium	75 - 125	2.4758		1.0026	U	2.51	98.8		P
Silver	75 - 125	16.2090		3.3396		12.53	102.7		P
Sodium	75 - 125	82.7030	B	80.3970	B	501.29	0.5	N	P
Thallium	75 - 125	12.2836		0.5795	B	12.53	93.4		P
Vanadium	75 - 125	148.2944		17.3397		125.32	104.5		P
Zinc	75 - 125	182.5175		60.5058		125.32	97.4		P

Comments:

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CEIMIC

TOTAL AND DISSOLVED METALS AND CYANIDE

-5A-

SPIKE SAMPLE RECOVERY

SAMPLE NO.

D00072S

Contract: Case 0291F

Lab Code: CEIMIC Case No.: 990802 SAS SDG NO.: D00064

Matrix (soil/water): WATER Level (low/med): LOW

% Solids for Sample: 0.0

Concentration Units (ug/L or mg/kg dry weight): µG/L

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Aluminum	75 - 125	2007.9000		103.5200	B	2000.00	95.2		P
Antimony	75 - 125	496.9400		2.5000	U	500.00	99.4		P
Arsenic	75 - 125	38.2060		2.8000	U	40.00	95.5		P
Barium	75 - 125	1982.0000		5.6200	B	2000.00	98.8		P
Beryllium	75 - 125	50.7800		0.4100	U	50.00	101.6		P
Cadmium	75 - 125	46.5980		0.3300	U	50.00	93.2		P
Calcium	75 - 125	3225.1001	B	3247.5000	B	2000.00	-1.1	N	P
Chromium	75 - 125	198.3800		3.5000	U	200.00	99.2		P
Cobalt	75 - 125	492.2800		8.6000	B	500.00	96.7		P
Copper	75 - 125	244.9300		7.1100	B	250.00	95.1		P
Iron	75 - 125	1148.0000		139.9400		1000.00	100.8		P
Lead	75 - 125	19.5500		7.4728		20.00	60.4	N	P
Magnesium	75 - 125	671.4800	B	776.1100	B	2000.00	-5.2	N	P
Manganese	75 - 125	490.7300		5.9700	B	500.00	97.0		P
Mercury	75 - 125	1.1890		0.0955	B	1.00	109.3		AV
Nickel	75 - 125	485.3400		9.8600	B	500.00	95.1		P
Potassium	75 - 125	533.7900	B	692.4100	B	2000.00	-7.9	N	P
Selenium	75 - 125	11.3940		4.0000	U	10.00	113.9		P
Silver	75 - 125	49.8840		2.8056	B	50.00	94.2		P
Sodium	75 - 125	5181.3999		5120.0000		2000.00	3.1	N	P
Thallium	75 - 125	46.1400		1.7000	U	50.00	92.3		P
Vanadium	75 - 125	502.3800		10.3300	B	500.00	98.4		P
Zinc	75 - 125	532.2200		32.6000		500.00	99.9		P

Comments:

CEIMIC

TOTAL AND DISSOLVED METALS AND CYANIDE

-5B-

POST DIGEST SPIKE SAMPLE RECOVERY

SAMPLE NO.

D00068A

Contract: Case 0291F

Lab Code: CEIMIC Case No.: 990802 SAS No.: SDG NO.: D00064

Matrix (soil/water): SOIL Level (low/med): LOW

Concentration Units: ug/L

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added(SA)	%R	Q	M
Antimony		118.75		2.50	U	120.0	99.0		P
Arsenic		59.10		17.92		40.0	102.9		P

Comments:

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TOTAL AND DISSOLVED METALS AND CYANIDE

-6-

DUPLICATES

SAMPLE NO.

D00064D

Contract: Case 0291F

Lab Code: CEIMIC Case No.: 990802 SAS No.: SDG NO.: D00064

Matrix (soil/water): WATER Level (low/med): LOW

% Solids for Sample: 0.0 % Solids for Duplicate:

Concentration Units (ug/L or mg/kg dry weight): µG/L

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum		84.8100	B	62.9300	B	29.6		P
Antimony		2.5000	U	2.5000	U			P
Arsenic		2.8000	U	2.8000	U			P
Barium		11.2400	B	4.3200	B	88.9		P
Beryllium		0.4100	U	0.4100	U			P
Cadmium		0.3300	U	0.3300	U			P
Calcium		3336.5000	B	3105.8000	B	7.2		P
Chromium		3.5000	U	3.5000	U			P
Cobalt		4.6900	B	6.2500	B	28.5		P
Copper		4.7700	B	3.5000	U	200.0		P
Cyanide		0.2200	U	0.2200	U			C
Iron		263.6800		199.3200		27.8		P
Lead		2.2000	U	2.2000	U			P
Magnesium		746.9800	B	573.4700	B	26.3		P
Manganese		14.9300	B	15.4100		3.2		P
Mercury		0.0764	B	0.0859	B	11.7		AV
Nickel		4.8000	U	8.3800	B	200.0		P
Potassium		713.7600	B	314.1700	B	77.7		P
Selenium		4.0000	U	4.0000	U			P
Silver		4.9004	B	2.6624	B	59.2		P
Sodium		5430.3999		4971.0000	B	8.8		P
Thallium		1.7653	B	1.7000	U	200.0		P
Vanadium		4.4600	B	5.9000	B	27.8		P
Zinc		186.0700		17.8300	B	165.0		P

TOTAL AND DISSOLVED METALS AND CYANIDE

-6-

DUPLICATES

SAMPLE NO.

D00068D

Contract: Case 0291F

Lab Code: CEIMIC Case No.: 990802 SAS No.: SDG NO.: D00064

Matrix (soil/water): SOIL Level (low/med): LOW

% Solids for Sample: 68.2 % Solids for Duplicate: 69.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum		7962.5045		7796.1111		0.9		P
Antimony		0.6193	U	0.6193	U			P
Arsenic	2.5	4.4383		4.9431		10.8		P
Barium		32.6391	B	30.5463	B	5.5		P
Beryllium		1.0377	B	0.8919	B	14.0		P
Cadmium		0.0818	U	0.0818	U			P
Calcium	1238.7	1493.1451		1249.7214		16.6		P
Chromium	2.5	13.2491		11.0170		17.2		P
Cobalt		4.9026	B	6.0102	B	21.5		P
Copper		5.8626	B	3.2801	B	55.4		P
Cyanide		0.0308	U	0.0308	U			C
Iron		10243.1274		10679.3023		5.3		P
Lead		11.8494		10.0233		16.7		P
Magnesium	1238.7	2044.5651		1961.4767		3.0		P
Manganese		158.1172		147.1795		6.0		P
Mercury		0.0618	B	0.0580	B	5.1		AV
Nickel		6.7925	B	8.4256	B	22.6		P
Potassium		1042.0584	B	967.2489	B	6.3		P
Selenium		0.9910	U	0.9910	U			P
Silver	2.5	3.3009		2.8111		16.0		P
Sodium		80.3970	B	71.1086	B	11.1		P
Thallium		0.5728	B	0.4212	U	200.0		P
Vanadium	12.4	17.3397		18.5061		7.7		P
Zinc		60.5058		55.0997		8.2		P

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TOTAL AND DISSOLVED METALS AND CYANIDE

-6-

DUPLICATES

SAMPLE NO.

D00072D

Contract: Case 0291F

Lab Code: CEIMIC Case No.: 990802 SAS No.: SDG NO.: D00064

Matrix (soil/water): WATER Level (low/med): LOW

% Solids for Sample: 0.0 % Solids for Duplicate:

Concentration Units (ug/L or mg/kg dry weight): µG/L

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum		103.5200	B	65.8700	B	44.5		P
Antimony		2.5000	U	2.5000	U			P
Arsenic		2.8000	U	2.8000	U			P
Barium		5.6200	B	3.8900	B	36.4		P
Beryllium		0.4100	U	0.4100	U			P
Cadmium		0.3300	U	0.3300	U			P
Calcium		3247.5000	B	3441.1001	B	5.8		P
Chromium		3.5000	U	3.5000	U			P
Cobalt		8.6000	B	4.6900	B	58.8		P
Copper		7.1100	B	7.1100	B	0.0		P
Iron		139.9400		144.9300		3.5		P
Lead		7.4728		2.2000	U	200.0		P
Magnesium		776.1100	B	815.8500	B	5.0		P
Manganese		5.9700	B	5.9800	B	0.2		P
Mercury		0.0955	B	0.0823	B	14.8		AV
Nickel		9.8600	B	10.8500	B	9.6		P
Potassium		692.4100	B	823.5700	B	17.3		P
Selenium		4.0000	U	4.0000	U			P
Silver		2.8056	B	6.2228	B	75.7		P
Sodium		5120.0000		5409.5000		5.5		P
Thallium		1.7000	U	1.7000	U			P
Vanadium		10.3300	B	11.8200	B	13.5		P
Zinc		32.6000		20.9100		43.7		P

TOTAL AND DISSOLVED METALS AND CYANIDE

-7-

LABORATORY CONTROL SAMPLE

Contract: Case 0291F

Lab Code: CEIMIC Case No.: 990802 SAS No.: SDG NO.: D00064

Solid LCS Source: ERA LCSS 241, ERA CN LCSS 236

Aqueous LCS Source: INOR-VNT-ICV

Analyte	Aqueous (ug/L)			Solid (mg/kg)					
	True	Found	%R	True	Found	C	Limits		%R
Aluminum	10000.0	9946.10	99.5	5250.0	4309.4		3140.0	7360.0	82.1
Antimony	500.0	464.50	92.9	33.0	25.9		5.9	60.2	78.5
Arsenic	200.0	189.22	94.6	93.9	95.5		69.8	118.0	101.7
Barium	10000.0	9882.30	98.8	330.0	295.5		254.0	405.0	89.5
Beryllium	250.0	248.70	99.5	42.7	42.2		33.5	51.9	98.9
Cadmium	100.0	91.37	91.4	97.2	91.7		74.8	120.0	94.3
Calcium	25000.0	24872.00	99.5	1320.0	1212.7		986.0	1650.0	91.9
Chromium	1000.0	996.85	99.7	46.0	44.3		35.5	56.5	96.4
Cobalt	2500.0	2464.50	98.6	120.0	117.4		95.6	145.0	97.8
Copper	1250.0	1203.90	96.3	147.0	147.4		121.0	174.0	100.3
Cyanide				160.0	154.5		65.2	255.0	96.5
Iron	5000.0	5002.00	100.0	10200.0	7443.4		5920.0	14500.0	73.0
Lead	200.0	184.44	92.2	135.0	123.5		103.0	167.0	91.5
Magnesium	25000.0	25020.00	100.1	2340.0	2210.4		1890.0	2790.0	94.5
Manganese	2500.0	2456.00	98.2	166.0	150.9		127.0	205.0	90.9
Nickel	2500.0	2443.50	97.7	138.0	137.3		108.0	168.0	99.5
Potassium	25000.0	24686.00	98.7	1480.0	1332.4		1100.0	1950.0	90.0
Selenium	200.0	196.63	98.3	96.0	96.6		71.2	121.0	100.6
Silver	1250.0	1154.80	92.4	86.7	92.7		64.6	109.0	106.9
Sodium	25000.0	24933.00	99.7	845.0	737.1	B	531.0	1160.0	87.2
Thallium	200.0	180.64	90.3	45.7	47.4		23.2	68.3	103.8
Vanadium	2500.0	2511.80	100.5	65.1	59.6		44.4	85.8	91.6
Zinc	2500.0	2438.40	97.5	75.0	74.6		58.0	92.1	99.4

TOTAL AND DISSOLVED METALS AND CYANIDE

-7-

LABORATORY CONTROL SAMPLE

Contract: Case 0291F

Lab Code: CEIMIC Case No.: 990802 SAS No.: SDG NO.: D00064

Solid LCS Source: ERA LCSS 241, ERA CN LCSS 236

Aqueous LCS Source:

Analyte	Aqueous (ug/L) True	Found	%R	Solid (mg/kg) True	Found	C	Limits		%R
Cyanide				160.0	164.9		65.2	255.0	103.0
Mercury				2.2	2.30		1.5	2.9	105.8

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TOTAL AND DISSOLVED METALS AND CYANIDE

ICP SERIAL DILUTIONS

SAMPLE NO.

D00064L

Contract: Case 0291F

Lab Code: CEIMIC Case No.: 990802 SAS No.: SDG NO.: D00064

Matrix (soil/water): WATER Level (low/med): LOW

Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Aluminum	84.81	B	171.00	U	100.0		P
Antimony	2.50	U	12.50	U			P
Arsenic	2.80	U	14.00	U			P
Barium	11.24	B	15.10	B	34.3		P
Beryllium	0.41	U	2.05	U			P
Cadmium	0.33	U	1.71	B	100.0		P
Calcium	3336.50	B	3947.20	B	18.3	E	P
Chromium	3.50	U	17.50	U			P
Cobalt	4.69	B	27.35	B	483.2		P
Copper	4.77	B	17.50	U	100.0		P
Iron	263.68		243.20	B	7.8		P
Lead	2.20	U	11.00	U			P
Magnesium	746.98	B	1297.90	B	73.8		P
Manganese	14.93	B	19.85	B	33.0		P
Nickel	4.80	U	24.00	U			P
Potassium	713.76	B	987.50	U	100.0		P
Selenium	4.00	U	20.00	U			P
Silver	4.90	B	24.70	B	404.1		P
Sodium	5430.40		5198.00	B	4.3		P
Thallium	1.77	B	8.50	U	100.0		P
Vanadium	4.46	B	29.45	B	560.3		P
Zinc	186.07		132.10		29.0		P

TOTAL AND DISSOLVED METALS AND CYANIDE

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ICP SERIAL DILUTIONS

SAMPLE NO.

D00068L

Contract: Case 0291F

Lab Code: CEIMIC Case No.: 990802 SAS No.: SDG NO.: D00064

Matrix (soil/water): SOIL Level (low/med): LOW

Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Differ-ence	Q	M
Aluminum	31768.00		31583.50		0.6		P
Antimony	2.50	U	12.50	U			P
Arsenic	17.92		14.00	U	100.0		P
Barium	130.22	B	134.10	B	3.0		P
Beryllium	4.14	B	3.60	B	13.0		P
Cadmium	0.33	U	1.65	U			P
Calcium	5957.20		6389.50	B	7.3		P
Chromium	52.86		29.60	B	44.0		P
Cobalt	19.56	B	19.55	B	0.1		P
Copper	23.39	B	17.50	U	100.0		P
Iron	40867.00		40722.50		0.4		P
Lead	47.83		50.76		6.1		P
Magnesium	8157.20		8277.50	B	1.5		P
Manganese	630.84		640.20		1.5		P
Nickel	27.10	B	34.50	B	27.3		P
Potassium	4157.50	B	3965.30	B	4.6		P
Selenium	4.00	U	20.00	U			P
Silver	13.32		34.92	B	162.2		P
Sodium	320.76	B	279.50	U	100.0		P
Thallium	2.31	B	8.50	U	100.0		P
Vanadium	69.18		77.15	B	11.5		P
Zinc	241.40		270.95		12.2		P

TOTAL AND DISSOLVED METALS AND CYANIDE

ICP SERIAL DILUTIONS

SAMPLE NO.

D00072L

Contract: Case 0291F

Lab Code: CEIMIC Case No.: 990802 SAS No.: SDG NO.: D00064

Matrix (soil/water): WATER Level (low/med): LOW

Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Differ-ence	Q	M
Aluminum	103.52	B	171.00	U	100.0		P
Antimony	2.50	U	12.50	U			P
Arsenic	2.80	U	14.00	U			P
Barium	5.62	B	5.00	U	100.0		P
Beryllium	0.41	U	2.05	U			P
Cadmium	0.33	U	1.65	U			P
Calcium	3247.50	B	3910.55	B	20.4	E	P
Chromium	3.50	U	17.50	U			P
Cobalt	8.60	B	19.55	B	127.3		P
Copper	7.11	B	17.50	U	100.0		P
Iron	139.94		154.65	B	10.5		P
Lead	7.47		11.00	U	100.0		P
Magnesium	776.11	B	642.35	B	17.2		P
Manganese	5.97	B	8.50	U	100.0		P
Nickel	9.86	B	24.00	U	100.0		P
Potassium	692.41	B	987.50	U	100.0		P
Selenium	4.00	U	20.00	U			P
Silver	2.81	B	16.45	B	485.4		P
Sodium	5120.00		4891.25	B	4.5		P
Thallium	1.70	U	9.50	B	100.0		P
Vanadium	10.33	B	22.00	B	113.0		P
Zinc	32.60		252.95		675.9		P

TOTAL AND DISSOLVED METALS AND CYANIDE

-10-

INSTRUMENT DETECTION LIMITS

Contract: Case 0291F

Lab Code: CEIMIC Case No.: 990802 SAS No.: SDG NO.: D00064

ICP ID Number: Date: 03/30/99

Flame AA ID Number: CVAA

Furnace AA ID Number:

Analyte	Wave-length	Back-ground	CRDL (ug/L)	IDL (ug/L)	M
Mercury	253.70		0.2	0.04	AV

Comments

TOTAL AND DISSOLVED METALS AND CYANIDE

-10-

INSTRUMENT DETECTION LIMITS

Contract: Case 0291F

Lab Code: CEIMIC Case No.: 990802 SAS No.: SDG NO.: D00064

ICP ID Number: Date: 03/30/99

Flame AA ID Number:

Furnace AA ID Number:

Analyte	Wave-length	Back-ground	CRDL (ug/L)	IDL (ug/L)	M
Cyanide			10.0	0.4	C

Comments

CEIMIC

TOTAL AND DISSOLVED METALS AND CYANIDE

-10-

INSTRUMENT DETECTION LIMITS

Contract: Case 0291F

Lab Code: CEIMIC Case No.: 990802 SAS No.: SDG NO.: D00064

ICP ID Number: TJA61 ICP Date: 02/19/99

Flame AA ID Number:

Furnace AA ID Number:

Analyte	Wave-length	Back-ground	CRDL (ug/L)	IDL (ug/L)	M
Aluminum	308.22		200.0	34.2	P
Barium	493.40		200.0	1.0	P
Beryllium	313.10		5.0	0.4	P
Calcium	370.60		5000.0	30.6	P
Chromium	267.70		10.0	3.5	P
Cobalt	228.62		50.0	2.8	P
Copper	324.75		25.0	3.5	P
Iron	259.90		100.0	8.9	P
Magnesium	383.20		5000.0	55.7	P
Manganese	257.61		15.0	1.7	P
Nickel	231.60		40.0	4.8	P
Potassium	766.40		5000.0	197.5	P
Sodium	588.90		5000.0	55.9	P
Vanadium	292.40		50.0	4.1	P
Zinc	213.80		20.0	9.0	P

Comments

TOTAL AND DISSOLVED METALS AND CYANIDE

-10-

INSTRUMENT DETECTION LIMITS

Contract: Case 0291F

Lab Code: CEIMIC Case No.: 990802 SAS No.: SDG NO.: D00064

ICP ID Number: TJA61E Trace ICP Date: 02/19/99

Flame AA ID Number:

Furnace AA ID Number:

Analyte	Wave-length	Back-ground	CRDL (ug/L)	IDL (ug/L)	M
Antimony	206.84		60.0	2.5	P
Arsenic	189.04		10.0	2.8	P
Cadmium	226.50		5.0	0.3	P
Lead	220.35		3.0	2.2	P
Selenium	196.02		5.0	4.0	P
Silver	328.07		10.0	2.3	P
Thallium	190.86		10.0	1.7	P

Comments

TOTAL AND DISSOLVED METALS AND CYANIDE

-11A-

ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Contract: Case 0291F

Lab Code: CEIMIC Case No.: 990802 SAS No.: SDG NO.: D00064

ICP ID Number: TJA61 ICP Date: 12/15/98

Analyte	Wave-length (nm)	Interelement Correction Factors for: Al	Ca	Fe	Mg	Ba
Aluminum	308.20	0.0000000	-0.0000200	0.0000000	0.0000000	0.0000000
Barium	493.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.10	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	370.60	0.0000000	0.0000000	0.0002000	0.0000000	0.0000000
Chromium	267.70	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.60	0.0000000	0.0000000	0.0000000	0.0000000	-0.0000280
Copper	324.70	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	259.90	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	383.20	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.60	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.60	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	588.90	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.40	0.0000000	0.0000000	-0.0000100	0.0000000	0.0000000
Zinc	213.80	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

TOTAL AND DISSOLVED METALS AND CYANIDE

-11A-

ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Contract: Case 0291F

Lab Code: CEIMIC Case No.: 990802 SAS No.: SDG NO.: D00064

ICP ID Number: TJA61 ICP Date: 12/15/98

Analyte	Wave-length (nm)	Interelement Correction Factors for: Cd	Co	Cr	Cu	Mn
Aluminum	308.20	0.0000000	0.0000000	0.0000000	0.0000000	0.0000800
Barium	493.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.10	0.0000000	0.0000000	-0.0000020	0.0000000	0.0000000
Calcium	370.60	0.0000000	0.0000000	0.0000000	0.0000000	0.0014000
Chromium	267.70	-0.0000450	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.60	0.0000000	0.0000000	-0.0000100	0.0000000	0.0000000
Copper	324.70	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	259.90	0.0000000	0.0000000	0.0005700	0.0000000	0.0000000
Magnesium	383.20	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.60	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.60	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	588.90	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.40	0.0000000	0.0000000	-0.0003200	0.0000000	0.0000000
Zinc	213.80	0.0000000	0.0000000	0.0000000	0.0001800	0.0000000

Comments:

TOTAL AND DISSOLVED METALS AND CYANIDE

-11B-

ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Contract: Case 0291F

Lab Code: CEIMIC Case No.: 990802 SAS No.: SDG NO.: D00064

ICP ID Number: TJA61 ICP Date: 12/15/98

Analyte	Wave-length (nm)	Interelement Correction Factors for: Ni	Sb	Tl	V	Zn
Aluminum	308.20	0.0000000	0.0000000	0.0000000	0.0018000	0.0000000
Barium	493.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.10	0.0000000	0.0000000	0.0000000	0.0000020	0.0000000
Calcium	370.60	0.0000000	0.0002500	0.0000000	0.0008800	0.0000000
Chromium	267.70	0.0000000	0.0000000	0.0000000	0.0001600	0.0000000
Cobalt	228.60	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	324.70	0.0000000	0.0000000	0.0000000	0.0000100	0.0000000
Iron	259.90	0.0000000	0.0000000	0.0000000	0.0038000	0.0000000
Magnesium	383.20	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.60	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.60	0.0000000	-0.0000200	0.0001100	0.0000000	0.0000100
Potassium	766.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	588.90	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	213.80	0.0003600	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

TOTAL AND DISSOLVED METALS AND CYANIDE

-11A-

ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Contract: Case 0291F

Lab Code: CEIMIC Case No.: 990802 SAS No.: SDG NO.: D00064

ICP ID Number: TJA61E Trace ICP Date: 12/15/98

Analyte	Wave-length (nm)	Interelement Correction Factors for: Al	Ca	Fe	Mg	Mn
Antimony	206.83	0.0000040	0.0000010	0.0000160	0.0000000	-0.0000066
Arsenic	189.04	0.0000080	0.0000040	-0.0000200	-0.0000020	0.0000120
Cadmium	226.50	-0.0000020	0.0000000	0.0450980	0.0000000	0.0000000
Lead	220.35	0.0071400	0.0000000	0.0605143	0.0089037	0.0000000
Selenium	196.02	-0.0000020	0.0000000	0.3910763	-0.0000020	0.0004473
Silver	328.07	0.0000000	0.0122670	0.0000040	-0.0000050	0.0000900
Thallium	190.86	-0.0000050	0.0000010	-0.5469060	0.0000030	0.0000300

Comments:

TOTAL AND DISSOLVED METALS AND CYANIDE

-11A-

ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Contract: Case 0291F

Lab Code: CEIMIC Case No.: 990802 SAS No.: SDG NO.: D00064

ICP ID Number: TJA61E Trace ICP Date: 12/15/98

Analyte	Wave-length (nm)	Interelement Correction Factors for: V				
Antimony	206.83	-0.0049260				
Arsenic	189.04	0.0001150				
Cadmium	226.50	0.0000000				
Lead	220.35	-0.0000313				
Selenium	196.02	-0.0002800				
Silver	328.07	0.0003200				
Thallium	190.86	-0.0016500				

Comments:

TOTAL AND DISSOLVED METALS AND CYANIDE

-12-

ICP LINEAR RANGES (QUARTERLY)

Contract: Case 0291F

Lab Code: CEIMIC Case No.: 990802 SAS No.: SDG NO.: D00064

ICP ID Number: TJA61 ICP Date: 03/16/99

Analyte	Integ. Time (Sec.)	Concentration (ug/L)	M
Aluminum	6.00	800000.0	P
Barium	6.00	50000.0	P
Beryllium	6.00	10000.0	P
Calcium	6.00	800000.0	P
Chromium	6.00	50000.0	P
Cobalt	6.00	50000.0	P
Copper	6.00	50000.0	P
Iron	6.00	500000.0	P
Magnesium	6.00	800000.0	P
Manganese	6.00	100000.0	P
Nickel	6.00	50000.0	P
Potassium	6.00	1000000.0	P
Sodium	6.00	300000.0	P
Vanadium	6.00	50000.0	P
Zinc	6.00	50000.0	P

Comments:

TOTAL AND DISSOLVED METALS AND CYANIDE

-12-

ICP LINEAR RANGES (QUARTERLY)

Contract: Case 0291F

Lab Code: CEIMIC Case No.: 990802 SAS No.: SDG NO.: D00064

ICP ID Number: TJA61E Trace ICP Date: 03/16/99

Analyte	Integ. Time (Sec.)	Concentration (ug/L)	M
Antimony	15.00	10000.0	P
Arsenic	15.00	10000.0	P
Cadmium	15.00	10000.0	P
Lead	15.00	10000.0	P
Selenium	15.00	10000.0	P
Silver	15.00	2500.0	P
Thallium	15.00	10000.0	P

Comments:

TOTAL AND DISSOLVED METALS AND CYANIDE

-13-

PREPARATION LOG

Contract: Case 0291F

Lab Code: CEIMIC Case No.: 990802 SAS No.: SDG NO.: D00064

Method P

Sample No.	Preparation Date	Weight (grams)	Volume (mL)
LCSS#802	10/01/99	1.00	200
990802-05	10/01/99	1.17	200
990802-05D	10/01/99	1.17	200
990802-05S	10/01/99	1.17	200
990802-06	10/01/99	1.09	200
990802-07	10/01/99	1.03	200
990802-08	10/01/99	1.00	200
990802-17	10/01/99	1.05	200
PBS#802	10/01/99	1.00	200

TOTAL AND DISSOLVED METALS AND CYANIDE

-13-

PREPARATION LOG

Contract: Case 0291F

Lab Code: CEIMIC Case No.: 990802 SAS No.: SDG NO.: D00064

Method P

Sample No.	Preparation Date	Initial Volume	Volume (mL)
PBW#802	10/01/99		100
LCSW#802	10/01/99		100
990802-01	10/01/99		100
990802-01D	10/01/99		100
990802-01S	10/01/99		100
990802-02	10/01/99		100
990802-03	10/01/99		100
990802-04	10/01/99		100
990802-09	10/01/99		100
990802-09D	10/01/99		100
990802-09S	10/01/99		100
990802-10	10/01/99		100
990802-11	10/01/99		100
990802-12	10/01/99		100
990802-13	10/01/99		100
990802-21	10/01/99		100

TOTAL AND DISSOLVED METALS AND CYANIDE

-13-

PREPARATION LOG

Contract: Case 0291F

Lab Code: CEIMIC Case No.: 990802 SAS No.: SDG NO.: D00064

Method AV

Sample No.	Preparation Date	Weight (grams)	Volume (mL)
990802-05	09/22/99	0.22	100
990802-05D	09/22/99	0.22	100
990802-05S	09/22/99	0.22	100
990802-06	09/22/99	0.23	100
990802-07	09/22/99	0.23	100
990802-08	09/22/99	0.22	100
PBS0922	09/22/99	0.20	100
LCSS0922	09/22/99	0.20	100
CCV3	09/22/99		100
CCB3	09/22/99		100
CCV4	09/22/99		100
CCB4	09/22/99		100
STD1REP1	09/22/99		100
STD2REP1	09/22/99		100
STD3REP1	09/22/99		100
STD4REP1	09/22/99		100
STD5REP1	09/22/99		100
STD6REP1	09/22/99		100
ICV2	09/22/99		100
ICB1	09/22/99		100
CCV1	09/22/99		100
CCB1	09/22/99		100
CRDL1	09/22/99		100
CCV2	09/22/99		100
CCB2	09/22/99		100

TOTAL AND DISSOLVED METALS AND CYANIDE

-13-

PREPARATION LOG

Contract: Case 0291F

Lab Code: CEIMIC Case No.: 990802 SAS No.: SDG NO.: D00064

Method AV

Sample No.	Preparation Date	Initial Volume	Volume (mL)
STD1REP1	09/15/99		100
STD2REP1	09/15/99		100
STD3REP1	09/15/99		100
STD4REP1	09/15/99		100
STD5REP1	09/15/99		100
STD6REP1	09/15/99		100
ICV1	09/15/99		125
ICB1	09/15/99		100
CCV1	09/15/99		125
CCB1	09/15/99		100
CRDL1	09/15/99		125
CCV2	09/15/99		125
CCB2	09/15/99		100
PBW0915	09/15/99		100
990802-01	09/15/99		100
CCV3	09/15/99		125
CCB3	09/15/99		100
990802-01D	09/15/99		100
990802-01S	09/15/99		100
990802-02	09/15/99		100
990802-03	09/15/99		100
990802-04	09/15/99		100
990802-09	09/15/99		100
990802-09D	09/15/99		100
990802-09S	09/15/99		100
990802-10	09/15/99		100
CCV4	09/15/99		125
CCB4	09/15/99		100
990802-11	09/15/99		100
990802-12	09/15/99		100
990802-13	09/15/99		100
CCV5	09/15/99		125
CCB5	09/15/99		100

TOTAL AND DISSOLVED METALS AND CYANIDE

-13-

PREPARATION LOG

Contract: Case 0291F

Lab Code: CEIMIC Case No.: 990802 SAS No.: SDG NO.: D00064

Method C

Sample No.	Preparation Date	Weight (grams)	Volume (mL)
PBS2	09/15/99	5.00	250
LCSS2	09/15/99	0.25	250
990802-05	09/15/99	5.18	250
990802-05S	09/15/99	5.10	250
990802-05D	09/15/99	5.18	250
990802-06	09/15/99	5.10	250

TOTAL AND DISSOLVED METALS AND CYANIDE

PREPARATION LOG

Contract: Case 0291F

Lab Code: CEIMIC Case No.: 990802 SAS No.: SDG NO.: D00064

Method C

Sample No.	Preparation Date	Weight (grams)	Volume (mL)
PBS1	09/16/99	5.00	250
LCSS1	09/16/99	0.25	250
990802-07	09/16/99	5.19	250
990802-08	09/16/99	5.27	250

TOTAL AND DISSOLVED METALS AND CYANIDE

-13-

PREPARATION LOG

Contract: Case 0291F

Lab Code: CEIMIC Case No.: 990802 SAS No.: SDG NO.: D00064

Method C

Sample No.	Preparation Date	Initial Volume	Volume (mL)
PBW1	09/17/99		250
990802-01	09/17/99		250
990802-01S	09/17/99		250
990802-01D	09/17/99		250
990802-02	09/17/99		250
990802-03	09/17/99		250
990802-04	09/17/99		250
990802-13	09/17/99		250

TOTAL AND DISSOLVED METALS AND CYANIDE

-13-

PREPARATION LOG

Contract: Case 0291F

Lab Code: CEIMIC Case No.: 990802 SAS No.: SDG NO.: D00064

Method C

Sample No.	Preparation Date	Initial Volume	Volume (mL)
PBW2	09/17/99		250
990802-18	09/17/99		250

TOTAL AND DISSOLVED METALS AND CYANIDE

-14-

ANALYSIS RUN LOG

Contract: Case 0291F

Lab Code CEIMIC Case No.: 990802 SAS No.: SDG No.: D00064

Instrument ID Number: Cyanide Method: C

Start Date: 9/16/99 End Date: 9/16/99

Sample No.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
S 400 UG/L	1.00	11:30																									X
S 300 UG/L	1.00	11:31																									X
S 200 UG/L	1.00	11:32																									X
S 100 UG/L	1.00	11:32																									X
S 40 UG/L	1.00	11:33																									X
S 10 UG/L	1.00	11:34																									X
S 0 UG/L	1.00	11:35																									X
ICV1	1.00	11:37																									X
ICB1	1.00	11:38																									X
ZZZZZZ	1.00	11:38																									
ZZZZZZ	1.00	11:39																									
ZZZZZZ	1.00	11:40																									
ZZZZZZ	1.00	11:41																									
ZZZZZZ	1.00	11:41																									
ZZZZZZ	1.00	11:42																									
ZZZZZZ	1.00	11:43																									
ZZZZZZ	1.00	11:44																									
CCV1	1.00	11:44																									X
CCB1	1.00	11:45																									X
ZZZZZZ	1.00	11:46																									
ZZZZZZ	1.00	11:47																									
ZZZZZZ	1.00	11:48																									
PBS2	1.00	11:48																									X
ZZZZZZ	1.00	11:49																									
LCSS2	1.00	11:50																									X
ZZZZZZ	1.00	11:51																									
ZZZZZZ	1.00	11:51																									
ZZZZZZ	1.00	11:52																									
ZZZZZZ	1.00	11:53																									
CCV2	1.00	11:54																									X
CCB2	1.00	11:54																									X
ZZZZZZ	1.00	11:55																									
990802-05	1.00	11:56																									X
990802-05S	1.00	11:57																									X

* - Denotes additional elements (other than the standard CLP elements) are represented on another Form 14

TOTAL AND DISSOLVED METALS AND CYANIDE

ANALYSIS RUN LOG

Contract: Case 0291F

Lab Code CEIMIC Case No.: 990802 SAS No.: SDG No.: D00064

Instrument ID Number: Cyanide Method: C

Start Date: 9/16/99 End Date: 9/16/99

Sample No.	D/F	Time	% R	Analytes																							
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
990802-05D	1.00	11:58																									X
990802-05	1.00	11:58																									X
CCV3	1.00	12:01																									X
CCB3	1.00	12:01																									X

* - Denotes additional elements (other than the standard CLP elements) are represented on another Form 14

Form XIV - IN

TOTAL AND DISSOLVED METALS AND CYANIDE

-14-

ANALYSIS RUN LOG

Contract: Case 0291F

Lab Code CEIMIC Case No.: 990802 SAS No.: SDG No.: D00064

Instrument ID Number: Cyanide Method: C

Start Date: 9/16/99 End Date: 9/16/99

Sample No.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
S 400 UG/L	1.00	15:43																									X
S 300 UG/L	1.00	15:44																									X
S 200 UG/L	1.00	15:45																									X
S 100 UG/L	1.00	15:45																									X
S 40 UG/L	1.00	15:46																									X
S 10 UG/L	1.00	15:47																									X
S 0 UG/L	1.00	15:47																									X
ICV2	1.00	15:50																									X
ICB1	1.00	15:50																									X
PBS1	1.00	15:51																									X
LCSS1	1.00	15:52																									X
ZZZZZZ	1.00	15:53																									
990802-07	1.00	15:53																									X
990802-08	1.00	15:54																									X
ZZZZZZ	1.00	15:55																									
ZZZZZZ	1.00	15:56																									
ZZZZZZ	1.00	15:56																									
CCV1	1.00	15:57																									X
CCB1	1.00	15:58																									X
ZZZZZZ	1.00	15:59																									
ZZZZZZ	1.00	15:59																									
ZZZZZZ	1.00	16:00																									
CCV2	1.00	16:03																									X
CCB2	1.00	16:03																									X

* - Denotes additional elements (other than the standard CLP elements) are represented on another Form 14

TOTAL AND DISSOLVED METALS AND CYANIDE

ANALYSIS RUN LOG

Contract: Case 0291F

Lab Code CEIMIC Case No.: 990802 SAS No.: SDG No.: D00064

Instrument ID Number: Cyanide Method: C

Start Date: 9/17/99 End Date: 9/17/99

Sample No.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
S 400 UG/L	1.00	16:10																									X
S 300 UG/L	1.00	16:10																									X
S 200 UG/L	1.00	16:11																									X
S 100 UG/L	1.00	16:12																									X
S 40 UG/L	1.00	16:13																									X
S 10 UG/L	1.00	16:13																									X
S 0 UG/L	1.00	16:14																									X
ICV1	1.00	16:16																									X
ICB1	1.00	16:17																									X
PBW1	1.00	16:18																									X
ZZZZZZ	1.00	16:19																									
ZZZZZZ	1.00	16:19																									
ZZZZZZ	1.00	16:20																									
990802-01	1.00	16:21																									X
990802-01S	1.00	16:22																									X
990802-01D	1.00	16:22																									X
990802-02	1.00	16:23																									X
CCV1	1.00	16:24																									X
CCB1	1.00	16:25																									X
990802-03	1.00	16:25																									X
990802-04	1.00	16:26																									X
990802-13	1.00	16:27																									X
PBW2	1.00	16:28																									X
ZZZZZZ	1.00	16:28																									
990802-13	1.00	16:29																									X
ZZZZZZ	1.00	16:30																									
ZZZZZZ	1.00	16:31																									
ZZZZZZ	1.00	16:31																									
ZZZZZZ	1.00	16:32																									
CCV2	1.00	16:33																									X
CCB2	1.00	16:34																									X
ZZZZZZ	1.00	16:34																									
ZZZZZZ	1.00	16:35																									
ZZZZZZ	1.00	16:36																									

* - Denotes additional elements (other than the standard CLP elements) are represented on another Form 14

Form XIV - IN

TOTAL AND DISSOLVED METALS AND CYANIDE

-14-

ANALYSIS RUN LOG

Contract: Case 0291F

Lab Code CEIMIC Case No.: 990802 SAS No.: SDG No.: D00064

Instrument ID Number: Cyanide Method: C

Start Date: 9/17/99 End Date: 9/17/99

Sample No.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
CCV3	1.00	16:38																									X
CCB3	1.00	16:39																									X

* - Denotes additional elements (other than the standard CLP elements) are represented on another Form 14

TOTAL AND DISSOLVED METALS AND CYANIDE

-14-

ANALYSIS RUN LOG

Contract: Case 0291F

Lab Code CEIMIC Case No.: 990802 SAS No.: SDG No.: D00064

Instrument ID Number: CVAA Method: AV

Start Date: 9/15/99 End Date: 9/16/99

Sample No.	D/F	Time	% R	Analytes																							
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
STD1REP1	1.00	22:29																X						*			
STD2REP1	1.00	22:31																X									
STD3REP1	1.00	22:33																X									
STD4REP1	1.00	22:36																X									
STD5REP1	1.00	22:38																X									
STD6REP1	1.00	22:41																X									
ICV1	1.00	22:43																X									
ICB1	1.00	22:46																X									
CCV1	1.00	22:48																X									
CCB1	1.00	22:50																X									
CRDL1	1.00	22:53																X									
ZZZZZZ	1.00	22:55																									
ZZZZZZ	1.00	22:57																									
ZZZZZZ	1.00	23:00																									
ZZZZZZ	1.00	23:02																									
ZZZZZZ	1.00	23:04																									
ZZZZZZ	1.00	23:06																									
ZZZZZZ	1.00	23:09																									
ZZZZZZ	1.00	23:11																									
ZZZZZZ	1.00	23:13																									
CCV2	1.00	23:16																X									
CCB2	1.00	23:18																X									
ZZZZZZ	1.00	23:20																									
ZZZZZZ	1.00	23:23																									
ZZZZZZ	1.00	23:25																									
ZZZZZZ	1.00	23:27																									
ZZZZZZ	1.00	23:30																									
ZZZZZZ	1.00	23:32																									
ZZZZZZ	1.00	23:34																									
PBW0915	1.27	23:36																X									
990802-01	1.26	23:39																X									
CCV3	1.00	23:41																X									
CCB3	1.00	23:43																X									
990802-01D	1.26	23:46																X									

* - Denotes additional elements (other than the standard CLP elements) are represented on another Form 14

TOTAL AND DISSOLVED METALS AND CYANIDE

-14-

ANALYSIS RUN LOG

Contract: Case 0291F

Lab Code CEIMIC Case No.: 990802 SAS No.: SDG No.: D00064

Instrument ID Number: CVAA Method: AV

Start Date: 9/15/99 End Date: 9/16/99

Sample No.	D/F	Time	% R	Analytes																							
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
990802-01S	1.28	23:48																X						-*	-*		
990802-02	1.27	23:50																X									
990802-03	1.26	23:52																X									
990802-04	1.27	23:55																X									
990802-09	1.27	23:57																X									
990802-09D	1.27	23:59																X									
990802-09S	1.27	00:01																X									
990802-10	1.28	00:04																X									
CCV4	1.00	00:06																X									
CCB4	1.00	00:08																X									
990802-11	1.27	00:11																X									
990802-12	1.28	00:13																X									
990802-13	1.28	00:15																X									
CCV5	1.00	00:17																X									
CCB5	1.00	00:20																X									

* - Denotes additional elements (other than the standard CLP elements) are represented on another Form 14

TOTAL AND DISSOLVED METALS AND CYANIDE

-14-

ANALYSIS RUN LOG

Contract: Case 0291F

Lab Code CEIMIC Case No.: 990802 SAS No.: SDG No.: D00064

Instrument ID Number: CVAA Method: AV

Start Date: 9/22/99 End Date: 9/23/99

Sample No.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
STD1REP1	1.00	23:40																X						*	*		
STD2REP1	1.00	23:42																X									
STD3REP1	1.00	23:44																X									
STD4REP1	1.00	23:47																X									
STD5REP1	1.00	23:49																X									
STD6REP1	1.00	23:52																X									
ICV2	1.00	23:54																X									
ICB1	1.00	23:57																X									
CCV1	1.00	23:59																X									
CCB1	1.00	00:02																X									
CRDL1	1.00	00:04																X									
PBS0922	1.00	00:06																X									
LCSS0922	1.00	00:09																X									
ZZZZZZ	1.00	00:11																									
ZZZZZZ	1.00	00:13																									
ZZZZZZ	1.00	00:16																									
ZZZZZZ	1.00	00:18																									
ZZZZZZ	1.00	00:20																									
ZZZZZZ	1.00	00:22																									
ZZZZZZ	1.00	00:25																									
CCV2	1.00	00:27																X									
CCB2	1.00	00:30																X									
ZZZZZZ	1.00	00:32																									
ZZZZZZ	1.00	00:34																									
ZZZZZZ	1.00	00:36																									
ZZZZZZ	1.00	00:39																									
ZZZZZZ	1.00	00:41																									
ZZZZZZ	1.00	00:43																									
990802-05	1.00	00:45																X									
990802-05D	1.00	00:48																X									
990802-05S	1.00	00:50																X									
CCV3	1.00	00:52																X									
CCB3	1.00	00:55																X									
990802-06	1.00	00:57																X									

* - Denotes additional elements (other than the standard CLP elements) are represented on another Form 14

TOTAL AND DISSOLVED METALS AND CYANIDE

ANALYSIS RUN LOG

Contract: Case 0291F

Lab Code CEIMIC Case No.: 990802 SAS No.: SDG No.: D00064

Instrument ID Number: CVAA Method: AV

Start Date: 9/22/99 End Date: 9/23/99

Sample No.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
990802-07	1.00	00:59																X									
990802-08	1.00	01:02																X									
CCV4	1.00	01:04																X									
CCB4	1.00	01:06																X									

* - Denotes additional elements (other than the standard CLP elements) are represented on another Form 14

1534

TOTAL AND DISSOLVED METALS AND CYANIDE

ANALYSIS RUN LOG

Contract: Case 0291F

Lab Code CEIMIC Case No.: 990802 SAS No.: SDG No.: D00064

Instrument ID Number: TJA61E Trace ICP Method: P

Start Date: 10/6/99 End Date: 10/6/99

Sample No.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
0STANDARD	1.00	15:00			X	X			X						X						X	X		X*			
STANDARD8	1.00	15:03			X	X			X						X						X	X		X			
STANDARD7	1.00	15:06																									
STANDARD9	1.00	15:08																									
ICV1	1.00	15:14			X	X			X						X						X	X		X			
ICB1	1.00	15:17			X	X			X						X						X	X		X			
CRDL1	1.00	15:20			X	X			X						X						X	X		X			
ICSA1	1.00	15:23			X	X			X						X						X	X		X			
ICS-AB1	1.00	15:27			X	X			X						X						X	X		X			
CCV1	1.00	15:30			X	X			X						X						X	X		X			
CCB1	1.00	15:33			X	X			X						X						X	X		X			
PBW#802	1.00	15:36			X	X			X						X						X	X		X			
LCSW#802	1.00	15:39			X	X			X						X						X	X		X			
990802-01	1.00	15:42			X	X			X						X						X	X		X			
990802-01D	1.00	15:45			X	X			X						X						X	X		X			
990802-01S	1.00	15:48			X	X			X						X						X	X		X			
990802-01L	5.00	15:51			X	X			X						X						X	X		X			
990802-02	1.00	15:54			X	X			X						X						X	X		X			
990802-03	1.00	15:57			X	X			X						X						X	X		X			
CCV2	1.00	16:00			X	X			X						X						X	X		X			
CCB2	1.00	16:03			X	X			X						X						X	X		X			
990802-04	1.00	16:06			X	X			X						X						X	X		X			
990802-09	1.00	16:09			X	X			X						X						X	X		X			
990802-09D	1.00	16:12			X	X			X						X						X	X		X			
990802-09S	1.00	16:15			X	X			X						X						X	X		X			
990802-09L	5.00	16:18			X	X			X						X						X	X		X			
990802-10	1.00	16:21			X	X			X						X						X	X		X			
990802-11	1.00	16:24			X	X			X						X						X	X		X			
990802-12	1.00	16:27			X	X			X						X						X	X		X			
990802-13	1.00	16:33			X	X			X						X						X	X		X			
990802-21	1.00	16:36			X	X			X						X						X	X		X			
CCV3	1.00	16:39			X	X			X						X						X	X		X			
CCB3	1.00	16:42			X	X			X						X						X	X		X			
PBS#802	1.00	16:45			X	X			X						X						X	X		X			

* - Denotes additional elements (other than the standard CLP elements) are represented on another Form 1

TOTAL AND DISSOLVED METALS AND CYANIDE

-14-

ANALYSIS RUN LOG

Contract: Case 0291F

Lab Code CEIMIC Case No.: 990802 SAS No.: SDG No.: D00064

Instrument ID Number: TJA61E Trace ICP Method: P

Start Date: 10/6/99 End Date: 10/6/99

Sample No.	D/F	Time	~~3~~ R	Analytes																							
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
LCSS#802	1.00	16:48			X	X			X						X						X	X		X*			
990802-05	1.00	16:51			X	X			X						X						X	X		X			
990802-05D	1.00	16:54			X	X			X						X						X	X		X			
990802-05S	1.00	16:57			X	X			X						X						X	X		X			
990802-05L	5.00	17:00			X	X			X						X						X	X		X			
990802-06	1.00	17:05			X	X			X						X						X	X		X			
990802-07	1.00	17:09			X	X			X						X						X	X		X			
CCV4	1.00	17:12			X	X			X						X						X	X		X			
CCB4	1.00	17:15			X	X			X						X						X	X		X			
990802-08	1.00	17:18			X	X			X						X						X	X		X			
990802-17	1.00	17:21			X	X			X						X						X	X		X			
ZZZZZZ	1.00	17:24																									
ZZZZZZ	1.00	17:27																									
ZZZZZZ	1.00	17:30																									
990802-05A	1.00	17:33			X	X																					
CRDL2	1.00	17:36			X	X			X						X						X	X		X			
ICSA2	1.00	17:39			X	X			X						X						X	X		X			
ICS-AB2	1.00	17:42			X	X			X						X						X	X		X			
CCV5	1.00	17:45			X	X			X						X						X	X		X			
CCB5	1.00	18:45			X	X			X						X						X	X		X			

* - Denotes additional elements (other than the standard CLP elements) are represented on another Form 14

Form XIV - IN

TOTAL AND DISSOLVED METALS AND CYANIDE

-14-

ANALYSIS RUN LOG

Contract: Case 0291F

Lab Code CEIMIC Case No.: 990802 SAS No.: SDG No.: D00064

Instrument ID Number: TJA61 ICP Method: P

Start Date: 10/6/99 End Date: 10/6/99

Sample No.	D/F	Time	% R	Analytes																							
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
0STANDARD	1.00	14:01		X			X	X		X	X	X	X	X		X	X		X	X			X	-	X	X	
STANDARD3	1.00	14:04		X						X				X		X							X				
STANDARD5	1.00	14:06					X	X			X	X	X				X		X	X						X	
STANDARD4	1.00	14:09																							X		
ICV1	1.00	14:11		X			X	X		X	X	X	X	X		X	X		X	X			X		X	X	
ICB1	1.00	14:13		X			X	X		X	X	X	X	X		X	X		X	X			X		X	X	
CRDL1	1.00	14:16		X			X	X		X	X	X	X	X		X	X		X	X			X		X	X	
ICSA1	1.00	14:19		X			X	X		X	X	X	X	X		X	X		X	X			X		X	X	
ICS-AB1	1.00	14:22		X			X	X		X	X	X	X	X		X	X		X	X			X		X	X	
CCV1	1.00	14:24		X			X	X		X	X	X	X	X		X	X		X	X			X		X	X	
CCB1	1.00	14:27		X			X	X		X	X	X	X	X		X	X		X	X			X		X	X	
PBW#802	1.00	14:46		X			X	X		X	X	X	X	X		X	X		X	X			X		X	X	
LCSW#802	1.00	14:49		X			X	X		X	X	X	X	X		X	X		X	X			X		X	X	
990802-01	1.00	14:52		X			X	X		X	X	X	X	X		X	X		X	X			X		X	X	
990802-01D	1.00	14:55		X			X	X		X	X	X	X	X		X	X		X	X			X		X	X	
990802-01S	1.00	14:58		X			X	X		X	X	X	X	X		X	X		X	X			X		X	X	
990802-01L	5.00	15:01		X			X	X		X	X	X	X	X		X	X		X	X			X		X	X	
990802-02	1.00	15:04		X			X	X		X	X	X	X	X		X	X		X	X			X		X	X	
990802-03	1.00	15:07		X			X	X		X	X	X	X	X		X	X		X	X			X		X	X	
CCV2	1.00	15:09		X			X	X		X	X	X	X	X		X	X		X	X			X		X	X	
CCB2	1.00	15:12		X			X	X		X	X	X	X	X		X	X		X	X			X		X	X	
990802-04	1.00	15:15		X			X	X		X	X	X	X	X		X	X		X	X			X		X	X	
990802-09	1.00	15:18		X			X	X		X	X	X	X	X		X	X		X	X			X		X	X	
990802-09D	1.00	15:21		X			X	X		X	X	X	X	X		X	X		X	X			X		X	X	
990802-09S	1.00	15:23		X			X	X		X	X	X	X	X		X	X		X	X			X		X	X	
990802-09L	5.00	15:26		X			X	X		X	X	X	X	X		X	X		X	X			X		X	X	
990802-10	1.00	15:30		X			X	X		X	X	X	X	X		X	X		X	X			X		X	X	
990802-11	1.00	15:32		X			X	X		X	X	X	X	X		X	X		X	X			X		X	X	
990802-12	1.00	15:35		X			X	X		X	X	X	X	X		X	X		X	X			X		X	X	
CCV3	1.00	15:38		X			X	X		X	X	X	X	X		X	X		X	X			X		X	X	
CCB3	1.00	15:41		X			X	X		X	X	X	X	X		X	X		X	X			X		X	X	
990802-13	1.00	15:44		X			X	X		X	X	X	X	X		X	X		X	X			X		X	X	
990802-21	1.00	15:46		X			X	X		X	X	X	X	X		X	X		X	X			X		X	X	
ZZZZZZ	1.00	15:49																									

* - Denotes additional elements (other than the standard CLP elements) are represented on another Form 14

TOTAL AND DISSOLVED METALS AND CYANIDE

-14-

ANALYSIS RUN LOG

Contract: Case 0291F

Lab Code CEIMIC Case No.: 990802 SAS No.: SDG No.: D00064

Instrument ID Number: TJA61 ICP Method: P

Start Date: 10/6/99 End Date: 10/6/99

Sample No.	D/F	Time	% R	Analytes																								
				AL	SB	AS*	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
LCSS#802	1.00	15:52		X			X	X		X	X	X	X	X		X	X		X	X			X	-	X	X	
990802-05	1.00	15:55		X			X	X		X	X	X	X	X		X	X		X	X			X		X	X	
990802-05D	1.00	15:57		X			X	X		X	X	X	X	X		X	X		X	X			X		X	X	
990802-05S	1.00	16:00		X			X	X		X	X	X	X	X		X	X		X	X			X		X	X	
990802-05L	5.00	16:03		X			X	X		X	X	X	X	X		X	X		X	X			X		X	X	
CCV4	1.00	16:06		X			X	X		X	X	X	X	X		X	X		X	X			X		X	X	
CCB4	1.00	16:08		X			X	X		X	X	X	X	X		X	X		X	X			X		X	X	
990802-06	1.00	16:11		X			X	X		X	X	X	X	X		X	X		X	X			X		X	X	
990802-07	1.00	16:14		X			X	X		X	X	X	X	X		X	X		X	X			X		X	X	
990802-08	1.00	16:17		X			X	X		X	X	X	X	X		X	X		X	X			X		X	X	
990802-17	1.00	16:19		X			X	X		X	X	X	X	X		X	X		X	X			X		X	X	
PBS#802	1.00	16:26		X			X	X		X	X	X	X	X		X	X		X	X			X		X	X	
CRDL2	1.00	16:31		X			X	X		X	X	X	X	X		X	X		X	X			X		X	X	
ICSA2	1.00	16:34		X			X	X		X	X	X	X	X		X	X		X	X			X		X	X	
ICS-AB2	1.00	16:36		X			X	X		X	X	X	X	X		X	X		X	X			X		X	X	
CCV5	1.00	16:39		X			X	X		X	X	X	X	X		X	X		X	X			X		X	X	
CCB5	1.00	16:42		X			X	X		X	X	X	X	X		X	X		X	X			X		X	X	

* - Denotes additional elements (other than the standard CLP elements) are represented on another Form 14

JJ 10/6/99

Method: 802 Standard: 0STANDARD MR 990913 A

Elem	Al3082	Ba4934	Be3131	Ca3706	Cr2677	Co2286	Cu3247
Avge	.00230	.00020	.00030	.07480	.00070	-.00050	.00060
SDev	.00495	.00028	.00014	.00000	.00127	.00042	.00028
%RSD	215.21	141.42	47.140	.00000	181.83	84.853	47.140
#1	-.00120	.00040	.00040	.07480	.00160	-.00080	.00080
#2	.00580	.00000	.00020	.07480	-.00020	-.00020	.00040

Elem	Fe2599	Mg3832	Mn2576	Ni2316	K_7664	Na5889	V_2924
Avge	.00320	-.00870	.00150	-.00060	-.02350	.14580	-.00070
SDev	.00368	.00382	.00014	.00057	.00042	.00594	.00042
%RSD	114.90	43.889	9.4281	94.281	1.8054	4.0739	60.609
#1	.00580	-.00600	.00160	-.00020	-.02320	.15000	-.00100
#2	.00060	-.01140	.00140	-.00100	-.02380	.14160	-.00040

Elem	Zn2138
Avge	.00090
SDev	.00014
%RSD	15.713
#1	.00100
#2	.00080

Method: 802 Standard: STANDARD3 MW 991023A

Elem	Al3082	Ca3706	Fe2599	Mg3832	Na5889
Avge	2.0204	.74600	4.0118	3.7665	8.2981
SDev	.0093	.00255	.0099	.0239	.0194
%RSD	.46198	.34123	.24676	.63455	.23348
#1	2.0138	.74420	4.0048	3.7496	8.2844
#2	2.0270	.74780	4.0188	3.7834	8.3118

Method: 802 Standard: STANDARD5 MW 991023B

Elem	Ba4934	Be3131	Cr2677	Co2286	Cu3247	Mn2576	Ni2316
Avge	4.6228	.27790	.40540	.63820	.31480	1.0096	1.0130
SDev	.0071	.00071	.00113	.00113	.00057	.0000	.0040
%RSD	.15296	.25445	.27907	.17723	.17970	.00000	.39090
#1	4.6178	.27740	.40460	.63900	.31440	1.0096	1.0102
#2	4.6278	.27840	.40620	.63740	.31520	1.0096	1.0158

Elem	K_7664	Zn2138
Avge	1.6157	.64290
SDev	.0132	.00156
%RSD	.81402	.24197
#1	1.6064	.64180
#2	1.6250	.64400

Method: 802 Standard: STANDARD4

MW990917I

Elem	V_2924
Avge	.67820
SDev	.00396
%RSD	.58387
#1	.68100
#2	.67540

Method: 802 Sample Name: JICPICV;ICV Operator: JJ
Run Time: 10/06/99 14:11:02
Comment: J4 DATA FILE;9910062
Mode: CONC Corr. Factor: 1

MW990917J

Elem	Al3082	Ba4934	Be3131	Ca3706	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	5.0163	4.9020	.12210	12.418	.48705	1.2264	.59679
SDev	.0139	.0208	.00025	.021	.00628	.0066	.00004
%RSD	.27641	.42439	.20837	.16892	1.2889	.54143	.00711
#1	5.0261	4.9167	.12228	12.433	.48262	1.2311	.59676
#2	5.0065	4.8873	.12192	12.403	.49149	1.2217	.59682

Elem	Fe2599	Mg3832	Mn2576	Ni2316	K_7664	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.4916	12.382	1.2196	1.2188	12.107	12.331	1.2503
SDev	.0049	.041	.0049	.0063	.052	.010	.0083
%RSD	.19823	.33279	.40267	.51508	.42757	.08440	.66488
#1	2.4951	12.353	1.2231	1.2232	12.143	12.339	1.2562
#2	2.4882	12.411	1.2161	1.2144	12.070	12.324	1.2445

Elem	Zn2138
Units	ppm
Avge	1.2072
SDev	.0077
%RSD	.63392
#1	1.2126
#2	1.2018

Method: 802 Sample Name: ICB;ICB Operator: JJ
Run Time: 10/06/99 14:13:48
Comment: J4 DATA FILE;9910062
Mode: CONC Corr. Factor: 1

MR990913A

Elem	Al3082	Ba4934	Be3131	Ca3706	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.02464	.00519	-.00000	.07444	-.00345	.00626	-.00084
SDev	.01394	.00122	.00026	.02102	.00838	.00111	.00115
%RSD	56.552	23.570	110500.	28.240	243.15	17.719	136.85
#1	.03450	.00433	-.00018	.05958	-.00937	.00548	-.00165
#2	.01479	.00606	.00018	.08931	.00248	.00705	-.00003

Elem	Fe2599	Mg3832	Mn2576	Ni2316	K_7664	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00075	-.02649	.00050	.00444	-.31113	-.02085	.00809
SDev	.00388	.09552	.00000	.00488	.19412	.02255	.00414
%RSD	518.54	360.62	.18180	109.98	62.392	108.15	51.155
#1	-.00200	-.09403	.00050	.00789	-.44839	-.03680	.01102
#2	.00349	.04106	.00050	.00099	-.17387	-.00491	.00516

Elem	Zn2138
Units	ppm
Avge	-.00394
SDev	.00003
%RSD	.80253
#1	-.00396
#2	-.00392

Method: 802 Sample Name: J2CRDL;CRI Operator: JJ
Run Time: 10/06/99 14:16:34
Comment: J4 DATA FILE;9910062 MN99095C
Mode: CONC Corr. Factor: 1

Elem	Al3082	Ba4934	Be3131	Ca3706	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.07731	Q.00476	.00954	.21443	.01944	.10488	.04876
SDev	.02648	.00551	.00051	.03146	.00700	.00996	.00896
%RSD	34.255	115.71	5.3374	14.671	36.015	9.4981	18.371
#1	.09604	Q.00865	.00990	.23668	.02439	.11192	.05510
#2	.05859	Q.00087	.00918	.19219	.01449	.09783	.04243

Elem	Fe2599	Mg3832	Mn2576	Ni2316	K_7664	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00998	.14436	.03125	.08780	-.04575	.05888	.10980
SDev	.00423	.18356	.00000	.01116	.18118	.06592	.00836
%RSD	42.426	127.15	.00194	12.713	395.98	111.96	7.6098
#1	.01297	.27416	.03125	.09569	.08236	.10549	.11571
#2	.00698	.01457	.03125	.07991	-.17337	.01227	.10389

Elem	Zn2138
Units	ppm
Avge	.04276
SDev	.00119
%RSD	2.7865
#1	.04192
#2	.04360

Method: 802 Sample Name: ICSA;ICSA Operator: JJ
Run Time: 10/06/99 14:19:20
Comment: J4 DATA FILE;9910062 MN99095B
Mode: CONC Corr. Factor: 1

Elem	Al3082	Ba4934	Be3131	Ca3706	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	497.23	.01082	.00036	477.99	-.00295	-.00235	-.00753
SDev	2.60	.00061	.00026	1.92	.00071	.00221	.00221
%RSD	.52208	5.6568	70.738	.40074	23.996	94.251	29.317
#1	495.39	.01125	.00018	476.64	-.00345	-.00391	-.00597
#2	499.06	.01038	.00054	479.35	-.00245	-.00078	-.00909

Elem	Fe2599	Mg3832	Mn2576	Ni2316	K_7664	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	186.36	490.31	.00205	-.00345	-.30808	-.07053	.01051
SDev	.89	2.08	.00055	.00488	.07765	.01128	.00537
%RSD	.48009	.42327	26.677	141.45	25.204	15.987	51.066
#1	185.73	488.84	.00243	-.00690	-.36298	-.06256	.00671
#2	186.99	491.77	.00166	.00000	-.25317	-.07851	.01430

Elem	Zn2138
Units	ppm
Avge	-.00892
SDev	.00316
%RSD	35.399
#1	-.01116
#2	-.00669

Method: 802 Sample Name: ICSAB4;ICSAB Operator: JJ
Run Time: 10/06/99 14:22:07
Comment: J4 DATA FILE;9910062 h,w 991003-D
Mode: CONC Corr. Factor: 1

Elem	Al3082	Ba4934	Be3131	Ca3706	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	506.58	.50707	.49622	488.00	.47958	.47261	.48594
SDev	2.17	.00367	.00408	6.93	.01120	.00996	.01027
%RSD	.42879	.72400	.82132	1.4195	2.3350	2.1075	2.1145
#1	508.12	.50967	.49910	492.90	.48750	.47965	.49321
#2	505.04	.50448	.49334	483.10	.47166	.46556	.47868

Elem	Fe2599	Mg3832	Mn2576	Ni2316	K_7664	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	190.39	498.37	.47296	.92039	.16471	.05213	.50252
SDev	2.21	1.25	.00814	.01674	.16824	.03383	.01084
%RSD	1.1622	.25105	1.7208	1.8190	102.14	64.887	2.1568
#1	191.95	499.26	.47871	.93222	.28367	.07605	.51018
#2	188.82	497.49	.46720	.90855	.04575	.02821	.49486

Elem	Zn2138
Units	ppm
Avge	.94863
SDev	.01172
%RSD	1.2356

#1	.95692
#2	.94034

Method: 802 Sample Name: JICPCCV;CCV Operator: JJ
Run Time: 10/06/99 14:24:53
Comment: J4 DATA FILE;9910062 MN991005B
Mode: CONC Corr. Factor: 1

Elem	Al3082	Ba4934	Be3131	Ca3706	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	10.692	10.275	.25447	26.255	1.0355	2.5569	1.2503
SDev	.168	.092	.00255	.662	.0217	.0509	.0088
%RSD	1.5669	.89918	1.0008	2.5229	2.0979	1.9912	.70323
#1	10.810	10.341	.25627	26.723	1.0509	2.5929	1.2565
#2	10.573	10.210	.25267	25.786	1.0202	2.5209	1.2441

Elem	Fe2599	Mg3832	Mn2576	Ni2316	K_7664	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	5.2966	26.203	2.5483	2.5377	25.686	25.765	2.6121
SDev	.1242	.451	.0372	.0593	.561	.144	.0418
%RSD	2.3446	1.7227	1.4597	2.3364	2.1832	.55885	1.5984
#1	5.3844	26.522	2.5746	2.5797	26.083	25.866	2.6417
#2	5.2088	25.883	2.5220	2.4958	25.290	25.663	2.5826

Elem	Zn2138
Units	ppm
Avge	2.5053
SDev	.0381
%RSD	1.5223
#1	2.5323
#2	2.4784

Method: 802 Sample Name: CCB;CCB Operator: JJ
Run Time: 10/06/99 14:27:38
Comment: J4 DATA FILE;9910062 MR990913B All good wrong check table
Mode: CONC Corr. Factor: 1

Elem	Al3082	Ba4934	Be3131	Ca3706	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	Q.12661	Q.00865	Q.00054	Q.14875	Q.00249	Q.00939	Q.00390
SDev	.08538	.00367	.00000	.12622	.00840	.00553	.01009
%RSD	67.437	42.426	.00399	84.851	336.72	58.926	258.45
#1	Q.18699	Q.01125	Q.00054	Q.23800	Q.00843	Q.01330	Q.01104
#2	Q.06624	Q.00606	Q.00054	Q.05950	Q-.00344	Q.00548	Q-.00323

Elem	Fe2599	Mg3832	Mn2576	Ni2316	K_7664	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	Q.02495	Q.20529	Q.00248	Q.01283	Q.00610	Q.05459	Q.01474
SDev	.01200	.10864	.00281	.00977	.07333	.07199	.00732
%RSD	48.083	52.919	113.03	76.147	1202.1	131.89	49.653

#1	Q.03343	Q.28210	Q.00447	Q.01973	Q.05796	Q.10549	Q.01992
#2	Q.01646	Q.12847	Q.00050	Q.00592	Q-.04575	Q.00368	Q.00957

Elem	Zn2138
Units	ppm
Avge	Q-.00323
SDev	.00102
%RSD	31.482

#1	Q-.00251
#2	Q-.00395

Method: 802 Sample Name: PBW;PBW#802 Operator: JJ
Run Time: 10/06/99 14:46:33
Comment: J4 DATA FILE;9910062 1001 PBW,
Mode: CONC Corr. Factor: 1

Elem	Al3082	Ba4934	Be3131	Ca3706	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.03962	-.00260	-.00036	.16384	-.00345	.00469	-.00001
SDev	.02102	.00245	.00025	.06321	.00000	.00332	.00226
%RSD	53.045	94.281	70.691	38.580	.04820	70.723	16413.
#1	.05448	-.00433	-.00054	.20854	-.00345	.00704	-.00161
#2	.02476	-.00087	-.00018	.11915	-.00346	.00235	.00158

Elem	Fe2599	Mg3832	Mn2576	Ni2316	K_7664	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.02021	-.04900	.00050	.00641	-.19217	.15762	.00294
SDev	.00459	.13111	.00000	.00349	.24157	.04770	.00104
%RSD	22.697	267.55	.22143	54.394	125.71	30.265	35.419
#1	.01696	-.14171	.00050	.00888	-.36298	.12389	.00367
#2	.02345	.04371	.00050	.00395	-.02135	.19136	.00220

Elem	Zn2138
Units	ppm
Avge	.00775
SDev	.00329
%RSD	42.478
#1	.01008
#2	.00542

Method: 802 Sample Name: LCSW;LCSW#802 Operator: JJ
Run Time: 10/06/99 14:49:33
Comment: J4 DATA FILE;9910062
Mode: CONC Corr. Factor: 1 1001 LCSW,

Elem	Al3082	Ba4934	Be3131	Ca3706	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	9.9462	9.8823	.24871	24.872	.99686	2.4645	1.2039
SDev	.0700	.0912	.00153	.053	.00349	.0000	.0079
%RSD	.70365	.92255	.61444	.21225	.35001	.00008	.65265
#1	9.8967	9.8179	.24763	24.910	.99932	2.4645	1.1983
#2	9.9956	9.9468	.24979	24.835	.99439	2.4645	1.2094

Elem	Fe2599	Mg3832	Mn2576	Ni2316	K_7664	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	5.0020	25.020	2.4560	2.4435	24.686	24.933	2.5118
SDev	.0116	.015	.0063	.0070	.198	.204	.0042
%RSD	.23275	.05988	.25711	.28545	.80383	.81750	.16551
#1	4.9938	25.030	2.4516	2.4485	24.826	24.789	2.5089
#2	5.0102	25.009	2.4605	2.4386	24.546	25.078	2.5147

Elem	Zn2138
Units	ppm

1595

Avge	2.4384
SDev	.0088
%RSD	.36176
#1	2.4447
#2	2.4322

Method: 802 Sample Name: 990802-01;S Operator: JJ
Run Time: 10/06/99 14:52:28
Comment: J4 DATA FILE;9910062
Mode: CONC Corr. Factor: 1 D00064

Elem	Al3082	Ba4934	Be3131	Ca3706	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.08481	.01125	.00018	3.3365	.00050	.00470	.00477
SDev	.05604	.00245	.00000	.0000	.00140	.00553	.00001
%RSD	66.080	21.757	.00393	.00021	280.90	117.82	.13544
#1	.04518	.01298	.00018	3.3365	-.00049	.00078	.00478
#2	.12444	.00952	.00018	3.3365	.00149	.00861	.00477

Elem	Fe2599	Mg3832	Mn2576	Ni2316	K_7664	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.26368	.74698	.01493	.00047	.71376	5.4304	.00447
SDev	.00035	.04683	.00211	.00628	.03882	.0330	.00105
%RSD	.13379	6.2687	14.096	1322.5	5.4393	.60695	23.420
#1	.26343	.78009	.01642	-.00396	.68631	5.4537	.00373
#2	.26393	.71387	.01344	.00491	.74122	5.4071	.00521

Elem	Zn2138
Units	ppm
Avge	.18607
SDev	.00658
%RSD	3.5377
#1	.18142
#2	.19073

Method: 802 Sample Name: -01;S2 Operator: JJ
Run Time: 10/06/99 14:55:31
Comment: J4 DATA FILE;9910062
Mode: CONC Corr. Factor: 1 D00064 Dup

Elem	Al3082	Ba4934	Be3131	Ca3706	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.06294	.00433	-.00018	3.1058	-.00592	.00626	-.00320
SDev	.00563	.00245	.00051	.0315	.00629	.00332	.00450
%RSD	8.9473	56.569	282.55	1.0158	106.15	53.046	140.65
#1	.06692	.00606	.00018	3.1281	-.00148	.00391	-.00637
#2	.05896	.00260	-.00054	3.0835	-.01037	.00861	-.00002

Elem	Fe2599	Mg3832	Mn2576	Ni2316	K_7664	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm

Avge	.19932	.57348	.01541	.00838	.31418	4.9710	.00591
SDev	.00529	.15359	.00000	.00070	.17255	.0772	.00102
%RSD	2.6550	26.782	.00654	8.3207	54.921	1.5529	17.274
#1	.20306	.68208	.01542	.00789	.43619	5.0256	.00519
#2	.19558	.46488	.01541	.00888	.19217	4.9164	.00663

Elem	Zn2138
Units	ppm
Avge	.01784
SDev	.00001
%RSD	.07935
#1	.01785
#2	.01783

Method: 802 Sample Name: -01;DS Operator: JJ
Run Time: 10/06/99 14:58:36
Comment: J4 DATA FILE;9910062 D00064 SPK
Mode: CONC Corr. Factor: 1

Elem	Al3082	Ba4934	Be3131	Ca3706	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.0634	1.9781	.05007	3.3812	.20086	.49384	.23777
SDev	.0223	.0281	.00076	.0419	.00840	.00000	.00228
%RSD	1.0815	1.4229	1.5264	1.2394	4.1799	.00038	.95939
#1	2.0792	1.9980	.05061	3.4108	.20679	.49384	.23616
#2	2.0476	1.9582	.04953	3.3515	.19492	.49384	.23939

Elem	Fe2599	Mg3832	Mn2576	Ni2316	K_7664	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.2348	.64765	.50167	.49867	.57650	5.4058	.50535
SDev	.0120	.11238	.00561	.00907	.26745	.0538	.00628
%RSD	.97138	17.352	1.1190	1.8186	46.392	.99480	1.2424
#1	1.2433	.72711	.50564	.50508	.76562	5.4439	.50979
#2	1.2264	.56818	.49770	.49225	.38738	5.3678	.50091

Elem	Zn2138
Units	ppm
Avge	.50101
SDev	.00215
%RSD	.42870
#1	.50253
#2	.49949

Method: 802 Sample Name: -01;ISB/5 Operator: JJ
Run Time: 10/06/99 15:01:35
Comment: J4 DATA FILE;9910062 D00064 L,5K
Mode: CONC Corr. Factor: 1

Elem	Al3082	Ba4934	Be3131	Ca3706	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm

Avge	.03077	.00303	-.00000	.78944	-.00197	.00548	.00236
SDev	.03080	.00184	.00025	.10526	.00629	.00221	.00336
%RSD	100.09	60.609	162020.	13.333	319.84	40.410	142.33
#1	.00899	.00173	-.00018	.71501	-.00642	.00391	-.00002
#2	.05255	.00433	.00018	.86387	.00248	.00704	.00474

Elem	Fe2599	Mg3832	Mn2576	Ni2316	K_7664	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.04865	.25959	.00398	.00444	.15556	1.0396	.00589
SDev	.00176	.06556	.00070	.00349	.11216	.0408	.00314
%RSD	3.6262	25.254	17.620	78.607	72.097	3.9214	53.350
#1	.04989	.21323	.00348	.00197	.07626	1.0108	.00367
#2	.04740	.30594	.00447	.00690	.23487	1.0684	.00812

Elem	Zn2138
Units	ppm
Avge	.02643
SDev	.00327
%RSD	12.385
#1	.02411
#2	.02874

Method: 802 Sample Name: -02;S Operator: JJ
Run Time: 10/06/99 15:04:24
Comment: J4 DATA FILE;9910062 D00065
Mode: CONC Corr. Factor: 1

Elem	Al3082	Ba4934	Be3131	Ca3706	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.07493	.00346	.00018	3.3217	-.00148	.00078	.00080
SDev	.01116	.00000	.00000	.0211	.00139	.00221	.00111
%RSD	14.895	.00000	.05013	.63391	94.051	282.34	138.26
#1	.08282	.00346	.00018	3.3366	-.00247	.00235	.00159
#2	.06703	.00346	.00018	3.3068	-.00050	-.00078	.00002

Elem	Fe2599	Mg3832	Mn2576	Ni2316	K_7664	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.24847	.64632	.01542	-.00099	.60090	5.2255	.00298
SDev	.00071	.01311	.00000	.01116	.19843	.0156	.00312
%RSD	.28398	2.0286	.00157	1126.0	33.022	.29878	104.54
#1	.24797	.63705	.01542	.00690	.46059	5.2145	.00519
#2	.24896	.65559	.01542	-.00888	.74122	5.2366	.00078

Elem	Zn2138
Units	ppm
Avge	.04747
SDev	.00226
%RSD	4.7527
#1	.04587
#2	.04906

Method: 802 Sample Name: -03;S Operator: JJ
Run Time: 10/06/99 15:07:09
Comment: J4 DATA FILE;9910062 D99066
Mode: CONC Corr. Factor: 1

Elem	Al3082	Ba4934	Be3131	Ca3706	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.10378	.00389	.00018	4.1857	-.00296	.00391	-.00319
SDev	.02096	.00061	.00000	.0211	.00070	.00221	.00449
%RSD	20.199	15.713	.02692	.50394	23.782	56.566	140.60
#1	.11860	.00433	.00018	4.1708	-.00246	.00235	-.00002
#2	.08896	.00346	.00018	4.2006	-.00346	.00548	-.00636

Elem	Fe2599	Mg3832	Mn2576	Ni2316	K_7664	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.26817	.76685	.02039	.00246	.79917	5.7702	.00593
SDev	.00529	.04495	.00000	.00209	.03020	.0330	.00313
%RSD	1.9733	5.8620	.00612	85.023	3.7784	.57121	52.720
#1	.26443	.73506	.02039	.00098	.77782	5.7468	.00814
#2	.27192	.79863	.02039	.00394	.82052	5.7935	.00372

Elem	Zn2138
Units	ppm
Avge	.04823
SDev	.00109
%RSD	2.2555
#1	.04899
#2	.04746

Method: 802 Sample Name: JICPCCV;CCV Operator: JJ
Run Time: 10/06/99 15:09:54
Comment: J4 DATA FILE;9910062 AIW99 1225B
Mode: CONC Corr. Factor: 1

Elem	Al3082	Ba4934	Be3131	Ca3706	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	10.193	10.101	.25015	25.244	1.0033	2.4896	1.2236
SDev	.011	.006	.00000	.031	.0014	.0022	.0000
%RSD	.10946	.06057	.00001	.12465	.13970	.08892	.00125
#1	10.185	10.096	.25015	25.222	1.0023	2.4880	1.2236
#2	10.201	10.105	.25015	25.266	1.0043	2.4911	1.2236

Elem	Fe2599	Mg3832	Mn2576	Ni2316	K_7664	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	5.0594	25.517	2.4833	2.4706	24.951	25.348	2.5494
SDev	.0095	.009	.0056	.0021	.056	.043	.0031
%RSD	.18827	.03670	.22603	.08470	.22475	.16767	.12280
#1	5.0526	25.510	2.4793	2.4692	24.912	25.318	2.5472
#2	5.0661	25.523	2.4873	2.4721	24.991	25.378	2.5516

1500

Elem	Zn2138
Units	ppm
Avge	2.4444
SDev	.0022
%RSD	.08923
#1	2.4428
#2	2.4459

Method: 802 Sample Name: CCB;CCB Operator: JJ
Run Time: 10/06/99 15:12:41
Comment: J4 DATA FILE;9910062
Mode: CONC Corr. Factor: 1

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Elem	Al3082	Ba4934	Be3131	Ca3706	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.02469	.00519	.00018	.08191	-.00246	.00704	-.00242
SDev	.01397	.00122	.00000	.07370	.00140	.00000	.00561
%RSD	56.608	23.570	.01919	89.972	56.986	.00989	231.99
#1	.01480	.00433	.00018	.02980	-.00345	.00704	-.00639
#2	.03457	.00606	.00018	.13403	-.00147	.00704	.00155

Elem	Fe2599	Mg3832	Mn2576	Ni2316	K_7664	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00349	.07417	.00050	.00493	-.00305	.01656	.00588
SDev	.00282	.04683	.00000	.00279	.18980	.00260	.00313
%RSD	80.812	63.135	.08862	56.564	6222.4	15.713	53.194
#1	-.00549	.04106	.00049	.00296	-.13726	.01472	.00367
#2	-.00150	.10728	.00050	.00691	.13116	.01840	.00810

Elem	Zn2138
Units	ppm
Avge	-.00393
SDev	.00003
%RSD	.84561
#1	-.00391
#2	-.00395

Method: 802 Sample Name: -04;S Operator: JJ
Run Time: 10/06/99 15:15:26
Comment: J4 DATA FILE;9910062
Mode: CONC Corr. Factor: 1

D00067

Elem	Al3082	Ba4934	Be3131	Ca3706	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.07291	.00303	.00018	3.3590	-.00494	.00469	-.00239
SDev	.00561	.00061	.00000	.0316	.00349	.00111	.00113
%RSD	7.6982	20.203	.03871	.94207	70.783	23.583	47.008
#1	.07688	.00260	.00018	3.3813	-.00741	.00391	-.00319
#2	.06894	.00346	.00018	3.3366	-.00247	.00548	-.00160

Elem	Fe2599	Mg3832	Mn2576	Ni2316	K_7664	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.23400	.58672	.01641	.00789	.36603	5.3942	.00518
SDev	.00353	.08990	.00000	.00139	.13373	.0113	.00001
%RSD	1.5077	15.323	.00461	17.690	36.534	.20904	.22777
#1	.23150	.52315	.01641	.00690	.27147	5.3862	.00517
#2	.23649	.65030	.01641	.00888	.46059	5.4022	.00519

Elem	Zn2138
Units	ppm
Avge	.04120
SDev	.00221
%RSD	5.3638
#1	.04277
#2	.03964

Method: 802 Sample Name: -09;S Operator: JJ
Run Time: 10/06/99 15:18:14
Comment: J4 DATA FILE;9910062 D00072
Mode: CONC Corr. Factor: 1

Elem	Al3082	Ba4934	Be3131	Ca3706	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.10352	.00562	.00018	3.2475	.00100	.00861	.00712
SDev	.04053	.00306	.00000	.0842	.00211	.00221	.00109
%RSD	39.148	54.393	.05770	2.5914	210.01	25.695	15.287
#1	.13218	.00779	.00018	3.3070	.00249	.01017	.00789
#2	.07487	.00346	.00018	3.1879	-.00049	.00704	.00635

Elem	Fe2599	Mg3832	Mn2576	Ni2316	K_7664	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.13995	.77612	.00598	.00986	.69241	5.1200	.01034
SDev	.00600	.17045	.00211	.00837	.30196	.0226	.00730
%RSD	4.2855	21.961	35.209	84.878	43.610	.44047	70.597
#1	.14419	.89664	.00747	.01578	.90593	5.1041	.01550
#2	.13571	.65559	.00449	.00394	.47889	5.1360	.00518

Elem	Zn2138
Units	ppm
Avge	.03260
SDev	.00324
%RSD	9.9440
#1	.03490
#2	.03031

Method: 802 Sample Name: -09;S2 Operator: JJ
Run Time: 10/06/99 15:21:07
Comment: J4 DATA FILE;9910062 D00072 Dup

Mode: CONC Corr. Factor: 1

Elem	Al3082	Ba4934	Be3131	Ca3706	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.06588	.00389	.00018	3.4411	.00348	.00469	.00711
SDev	.04341	.00306	.00000	.1052	.00420	.00553	.00336
%RSD	65.894	78.567	.01177	3.0584	120.73	117.88	47.226
#1	.09657	.00606	.00018	3.5155	.00645	.00861	.00949
#2	.03518	.00173	.00018	3.3667	.00051	.00078	.00474

Elem	Fe2599	Mg3832	Mn2576	Ni2316	K_7664	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.14494	.81585	.00598	.01085	.82357	5.4095	.01182
SDev	.00600	.17045	.00211	.00837	.20275	.0069	.00314
%RSD	4.1380	20.892	35.201	77.154	24.618	.12828	26.557
#1	.14918	.93637	.00747	.01677	.96694	5.4046	.01404
#2	.14070	.69533	.00449	.00493	.68021	5.4144	.00960

Elem	Zn2138
Units	ppm
Avge	.02091
SDev	.00005
%RSD	.23219
#1	.02088
#2	.02094

Method: 802 Sample Name: -09;DS Operator: [illegible]
Run Time: 10/06/99 15:23:57
Comment: J4 DATA FILE;9910062 D0072 SPK
Mode: CONC Corr. Factor: 1

Elem	Al3082	Ba4934	Be3131	Ca3706	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.0079	1.9820	.05079	3.2251	.19838	.49228	.24494
SDev	.0363	.0067	.00026	.0737	.00071	.00443	.00334
%RSD	1.8099	.33959	.50134	2.2839	.35720	.89950	1.3651
#1	1.9822	1.9772	.05061	3.1730	.19788	.48915	.24258
#2	2.0336	1.9868	.05097	3.2772	.19888	.49541	.24730

Elem	Fe2599	Mg3832	Mn2576	Ni2316	K_7664	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.1480	.67149	.49074	.48535	.53380	5.1814	.50238
SDev	.0035	.01124	.00140	.00139	.07765	.0017	.00625
%RSD	.30731	1.6736	.28594	.28734	14.546	.03348	1.2445
#1	1.1455	.67943	.48975	.48436	.47889	5.1801	.49796
#2	1.1505	.66354	.49173	.48633	.58870	5.1826	.50680

Elem	Zn2138
Units	ppm
Avge	.53222
SDev	.00657
%RSD	1.2345

#1	.52757
#2	.53687

Method: 802 Sample Name: -09;ISD/5 Operator: JJ
Run Time: 10/06/99 15:26:57
Comment: J4 DATA FILE;9910062 D00072 L,5^
Mode: CONC Corr. Factor: 1

Elem	Al3082	Ba4934	Be3131	Ca3706	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.02386	.00087	-.00000	.78212	-.00493	.00391	-.00161
SDev	.02378	.00122	.00025	.07378	.00629	.00443	.00002
%RSD	99.679	141.42	136400.	9.4335	127.36	113.10	1.0231
#1	.00704	.00173	.00018	.72995	-.00049	.00078	-.00160
#2	.04068	.00000	-.00018	.83429	-.00938	.00704	-.00162

Elem	Fe2599	Mg3832	Mn2576	Ni2316	K_7664	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.03093	.12847	.00050	.00147	-.11286	.97825	.00441
SDev	.00353	.11987	.00000	.00628	.18989	.02168	.00310
%RSD	11.405	93.309	.18322	425.72	168.18	2.2166	70.407
#1	.03343	.21323	.00050	-.00296	.02135	.99358	.00221
#2	.02844	.04371	.00050	.00591	-.24707	.96292	.00660

Elem	Zn2138
Units	ppm
Avge	.05060
SDev	.00003
%RSD	.06720
#1	.05062
#2	.05057

Method: 802 Sample Name: -10;S Operator: JJ
Run Time: 10/06/99 15:30:00
Comment: J4 DATA FILE;9910062 D00073
Mode: CONC Corr. Factor: 1

Elem	Al3082	Ba4934	Be3131	Ca3706	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.01950	.00260	-.00036	3.3668	-.00593	.00235	.00081
SDev	.03635	.00245	.00076	.0000	.00768	.00443	.00110
%RSD	186.42	94.281	212.13	.00075	129.46	188.39	136.21
#1	-.00620	.00433	.00018	3.3668	-.00050	-.00078	.00003
#2	.04520	.00087	-.00090	3.3668	-.01136	.00548	.00158

Elem	Fe2599	Mg3832	Mn2576	Ni2316	K_7664	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.13770	.61189	.00747	-.00395	.39348	5.3138	.00001
SDev	.00071	.11425	.00000	.00698	.12941	.0572	.00518
%RSD	.51239	18.673	.00627	176.68	32.889	1.0773	101300.

1003

#1	.13820	.69268	.00747	-.00888	.48499	5.2734	-.00366
#2	.13721	.53110	.00747	.00098	.30198	5.3543	.00367

Elem	Zn2138
Units	ppm
Avge	.02258
SDev	.00005
%RSD	.21081
#1	.02261
#2	.02255

Method: 802 Sample Name: -11;S Operator: JJ
Run Time: 10/06/99 15:32:56 D00074
Comment: J4 DATA FILE;9910062
Mode: CONC Corr. Factor: 1

Elem	Al3082	Ba4934	Be3131	Ca3706	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.06012	.00260	-.00018	4.1488	-.00839	.00156	.00156
SDev	.01543	.00122	.00051	.0104	.00699	.00111	.00901
%RSD	25.670	47.140	282.37	.25187	83.327	70.791	576.91
#1	.04921	.00346	.00018	4.1562	-.00345	.00078	-.00481
#2	.07104	.00173	-.00054	4.1414	-.01333	.00235	.00793

Elem	Fe2599	Mg3832	Mn2576	Ni2316	K_7664	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.17188	.61983	.01144	.00542	.50329	5.7616	.00884
SDev	.00670	.10676	.00000	.00070	.18980	.1093	.00106
%RSD	3.8999	17.224	.01293	12.863	37.712	1.8969	12.047
#1	.17662	.69533	.01144	.00592	.63751	5.8388	.00959
#2	.16714	.54434	.01144	.00493	.36908	5.6843	.00809

Elem	Zn2138
Units	ppm
Avge	.03575
SDev	.00111
%RSD	3.1050
#1	.03653
#2	.03496

Method: 802 Sample Name: -12;S Operator: JJ
Run Time: 10/06/99 15:35:48
Comment: J4 DATA FILE;9910062
Mode: CONC Corr. Factor: 1 D00075

Elem	Al3082	Ba4934	Be3131	Ca3706	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.05315	.00173	-.00018	3.4859	-.00593	.00548	-.00478
SDev	.03081	.00122	.00000	.0843	.00349	.00221	.00674
%RSD	57.976	70.711	.06170	2.4182	58.912	40.407	141.02

#1	.03136	.00260	-.00018	3.4263	-.00346	.00391	-.00955
#2	.07494	.00087	-.00018	3.5455	-.00839	.00704	-.00001

Elem	Fe2599	Mg3832	Mn2576	Ni2316	K_7664	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.16215	.63043	.00846	.00493	.39043	5.4954	.00369
SDev	.00141	.13298	.00000	.00139	.25451	.0000	.00207
%RSD	.87028	21.094	.00661	28.294	65.186	.00000	56.115
#1	.16315	.72446	.00846	.00394	.57040	5.4954	.00223
#2	.16115	.53640	.00846	.00592	.21047	5.4954	.00516

Elem	Zn2138
Units	ppm
Avge	.02410
SDev	.00218
%RSD	9.0347
#1	.02256
#2	.02564

Method: 802 Sample Name: JICPCCV;CCV Operator: JJ
Run Time: 10/06/99 15:38:35
Comment: J4 DATA FILE;9910062 [illegible]
Mode: CONC Corr. Factor: 1

Elem	Al3082	Ba4934	Be3131	Ca3706	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	10.517	10.451	.25879	26.284	1.0410	2.5765	1.2653
SDev	.090	.058	.00000	.137	.0070	.0077	.0011
%RSD	.85223	.55620	.00009	.52092	.67062	.30062	.08674
#1	10.580	10.492	.25879	26.381	1.0361	2.5819	1.2661
#2	10.453	10.410	.25879	26.187	1.0460	2.5710	1.2645

Elem	Fe2599	Mg3832	Mn2576	Ni2316	K_7664	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	5.2485	26.363	2.5761	2.5446	25.763	26.154	2.6379
SDev	.0032	.082	.0035	.0119	.349	.010	.0052
%RSD	.06050	.31261	.13613	.46606	1.3563	.03648	.19659
#1	5.2507	26.421	2.5786	2.5530	26.010	26.161	2.6416
#2	5.2462	26.305	2.5736	2.5363	25.515	26.147	2.6343

Elem	Zn2138
Units	ppm
Avge	2.5316
SDev	.0010
%RSD	.04095
#1	2.5324
#2	2.5309

Method: 802 Sample Name: CCB;CCB Operator: JJ
Run Time: 10/06/99 15:41:20
Comment: J4 DATA FILE;9910062
Mode: CONC Corr. Factor: 1 MR 990713A

Elem	Al3082	Ba4934	Be3131	Ca3706	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.04942	.00692	.00054	.01484	-.00147	.00626	-.00083
SDev	.00423	.00122	.00000	.02110	.00280	.00553	.00338
%RSD	8.5534	17.678	.00647	142.15	190.17	88.397	405.15
#1	.05241	.00779	.00054	.02976	-.00345	.01018	.00156
#2	.04643	.00606	.00054	-.00008	.00051	.00235	-.00322

Elem	Fe2599	Mg3832	Mn2576	Ni2316	K_7664	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00175	.06225	.00050	.00345	-.17387	.01349	.00736
SDev	.00176	.01498	.00000	.00070	.13804	.00347	.00105
%RSD	101.02	24.072	.06356	20.198	79.394	25.713	14.269
#1	-.00050	.07284	.00050	.00395	-.27147	.01595	.00662
#2	-.00299	.05165	.00049	.00295	-.07626	.01104	.00810

Elem	Zn2138
Units	ppm
Avge	-.00316
SDev	.00110
%RSD	34.759
#1	-.00238
#2	-.00393

Method: 802 Sample Name: -13;S Operator: JJ
Run Time: 10/06/99 15:44:05
Comment: J4 DATA FILE;9910062 D000 76
Mode: CONC Corr. Factor: 1

Elem	Al3082	Ba4934	Be3131	Ca3706	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.03162	.00087	.00018	.05946	-.00147	.00391	-.00400
SDev	.00139	.00000	.00000	.04211	.00280	.00000	.00113
%RSD	4.3996	.00000	.01942	70.820	189.87	.01781	28.235
#1	.03063	.00087	.00018	.02969	-.00345	.00391	-.00321
#2	.03260	.00087	.00018	.08924	.00050	.00391	-.00480

Elem	Fe2599	Mg3832	Mn2576	Ni2316	K_7664	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.04247	.03444	.00050	-.00000	-.02745	.14904	.00589
SDev	.00353	.02435	.00000	.00140	.04314	.00087	.00105
%RSD	8.3189	70.711	.14243	66432.	157.13	.58199	17.811
#1	.04490	.05165	.00050	.00098	.00305	.14842	.00515
#2	.03991	.01722	.00050	-.00099	-.05796	.14965	.00664

Elem	Zn2138
Units	ppm

Avge	.02100
SDev	.00000
%RSD	.01287
#1	.02100
#2	.02101

Method: 802 Sample Name: -21;S Operator: JJ
Run Time: 10/06/99 15:46:50
Comment: J4 DATA FILE;9910062 D22054
Mode: CONC Corr. Factor: 1

Elem	Al3082	Ba4934	Be3131	Ca3706	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	31.724	-.00043	.02017	.01258	.01776	.74033	.05780
SDev	.313	.00061	.00026	.02104	.00070	.00996	.00337
%RSD	.98529	141.42	1.2627	167.28	3.9318	1.3456	5.8344
#1	31.942	.00000	.02035	.02745	.01826	.74738	.06018
#2	31.500	-.00087	.01999	-.00230	.01727	.73329	.05541

Elem	Fe2599	Mg3832	Mn2576	Ni2316	K_7664	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.03218	.02516	.14852	.78630	-.16165	.10917	.00227
SDev	.00106	.04121	.00210	.00698	.02588	.01908	.00000
%RSD	3.2889	163.75	1.4148	.88715	16.010	17.479	.09023
#1	.03143	.05430	.15000	.79124	-.17997	.12266	.00227
#2	.03293	-.00397	.14703	.78137	-.14336	.09568	.00227

Elem	Zn2138
Units	ppm
Avge	.01513
SDev	.00438
%RSD	28.918
#1	.01823
#2	.01204

Method: 802 Sample Name: PBS;PBS#802 Operator: JJ
Run Time: 10/06/99 15:49:35
Comment: J4 DATA FILE;9910062 1001 PBS, rerun
Mode: CONC Corr. Factor: 1

Elem	Al3082	Ba4934	Be3131	Ca3706	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.08904	.00216	-.00018	-.11919	-.00790	.00313	-.00083
SDev	.02105	.00184	.00051	.04217	.00350	.00332	.00113
%RSD	23.641	84.853	282.39	35.383	44.283	106.07	135.63
#1	.10392	.00087	-.00054	-.08937	L-.01037	.00548	-.00003
#2	.07415	.00346	.00018	-.14901	-.00542	.00078	-.00163

Elem	Fe2599	Mg3832	Mn2576	Ni2316	K_7664	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm

JJ 10/6/99

Avge	.00399	-.06887	-.00000	.00444	-.18302	.00307	.00734
SDev	.00141	.05057	.00070	.00628	.15098	.00781	.00105
%RSD	35.355	73.430	21e6	141.50	82.496	254.56	14.345
#1	.00299	-.10463	.00050	.00888	-.28978	-.00245	.00660
#2	.00499	-.03311	-.00050	-.00000	-.07626	.00859	.00808

Elem	Zn2138
Units	ppm
Avge	H.02410
SDev	.00002
%RSD	.07722
#1	H.02408
#2	H.02411

JJ 10/6/99

Method: 802 Sample Name: LCSS;LCSS#802 Operator: JJ
Run Time: 10/06/99 15:52:21
Comment: J4 DATA FILE;9910062 100/LCSS.
Mode: CONC Corr. Factor: 1

Elem	Al3082	Ba4934	Be3131	Ca3706	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	21.547	1.4775	.21109	6.0635	.22172	.58695	.73712
SDev	.104	.0104	.00178	.1885	.00630	.00996	.00675
%RSD	.48077	.70400	.84465	3.1096	2.8422	1.6969	.91535
#1	21.620	1.4849	.21235	6.1969	.22618	.59399	.74189
#2	21.474	1.4702	.20983	5.9302	.21727	.57990	.73234

Elem	Fe2599	Mg3832	Mn2576	Ni2316	K_7664	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	37.217	11.052	.75470	.68662	6.6618	3.6855	.29313
SDev	.415	.146	.00850	.01535	.0043	.0321	.00843
%RSD	1.1148	1.3218	1.1262	2.2353	.06475	.87080	2.8260
#1	37.510	11.156	.76070	.69748	6.6587	3.7082	.30409
#2	36.924	10.949	.74869	.67577	6.6648	3.6628	.29218

Elem	Zn2138
Units	ppm
Avge	.37288
SDev	.00235
%RSD	.63134
#1	.37121
#2	.37454

Method: 802 Sample Name: -05;S Operator: JJ
Run Time: 10/06/99 15:55:05
Comment: J4 DATA FILE;9910062 D00068
Mode: CONC Corr. Factor: 1

1C03

Elem	Al3082	Ba4934	Be3131	Ca3706	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm

Avge	31.768	.13023	.00414	5.9572	.05286	.01957	.02339
SDev	.122	.00061	.00000	.0003	.00139	.00443	.00111
%RSD	.38353	.46984	.00320	.00421	2.6286	22.614	4.7357
#1	31.682	.12980	.00414	5.9574	.05385	.01644	.02261
#2	31.854	.13066	.00414	5.9570	.05188	.02270	.02418

Elem	Fe2599	Mg3832	Mn2576	Ni2316	K_7664	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	40.867	8.1572	.63084	.02711	4.1575	.32077	.06919
SDev	.104	.0337	.00072	.01046	.0518	.02168	.00522
%RSD	.25380	.41331	.11431	38.604	1.2451	6.7601	7.5470
#1	40.793	8.1333	.63033	.01971	4.1941	.30544	.06549
#2	40.940	8.1810	.63135	.03451	4.1209	.33610	.07288

Elem	Zn2138
Units	ppm
Avge	.24141
SDev	.00007
%RSD	.03001
#1	.24146
#2	.24136

Method: 802 Sample Name: -05;S2 Operator: JJ
Run Time: 10/06/99 15:57:50
Comment: J4 DATA FILE;9910062 Dup
Mode: CONC Corr. Factor: 1

Elem	Al3082	Ba4934	Be3131	Ca3706	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	31.469	.12331	.00360	5.0445	.04448	.02426	.01324
SDev	.102	.00184	.00026	.0628	.00209	.00221	.00301
%RSD	.32503	1.4886	7.0746	1.2459	4.7077	9.1192	68.014
#1	31.396	.12461	.00378	5.0000	.04596	.02270	.00687
#2	31.541	.12201	.00342	5.0889	.04300	.02583	.01961

Elem	Fe2599	Mg3832	Mn2576	Ni2316	K_7664	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	43.107	7.9175	.59409	.03401	3.9043	.28704	.07471
SDev	.161	.0730	.00284	.00488	.1165	.00694	.00211
%RSD	.37320	.92262	.47753	14.356	2.9831	2.4175	2.8171
#1	42.993	7.9691	.59209	.03056	3.9867	.29194	.07322
#2	43.221	7.8658	.59610	.03747	3.8220	.28213	.07619

Elem	Zn2138
Units	ppm
Avge	.22241
SDev	.00214
%RSD	.96274
#1	.22090
#2	.22393

Method: 802 Sample Name: -05;DS Operator: JJ
Run Time: 10/06/99 16:00:35
Comment: J4 DATA FILE;9910062 D00065 SPK
Mode: CONC Corr. Factor: 1

Elem	Al3082	Ba4934	Be3131	Ca3706	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	36.995	2.1196	.05529	5.4803	.25175	.51654	.26559
SDev	.133	.0116	.00051	.1457	.00770	.01218	.00790
%RSD	.35952	.54848	.92140	2.6589	3.0578	2.3572	2.9738
#1	36.900	2.1114	.05493	5.3773	.24631	.50793	.26001
#2	37.089	2.1278	.05565	5.5834	.25719	.52515	.27118

Elem	Fe2599	Mg3832	Mn2576	Ni2316	K_7664	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	55.810	8.3055	1.2409	.52479	4.1087	.32997	.59166
SDev	.690	.1836	.0177	.00977	.0259	.07286	.00848
%RSD	1.2358	2.2101	1.4242	1.8609	.62994	22.081	1.4329
#1	55.322	8.1757	1.2284	.51788	4.0904	.27845	.58566
#2	56.297	8.4353	1.2534	.53169	4.1270	.38149	.59765

Elem	Zn2138
Units	ppm
Avge	.72819
SDev	.00754
%RSD	1.0356
#1	.72286
#2	.73353

Method: 802 Sample Name: -05;ISD/5 Operator: JJ
Run Time: 10/06/99 16:03:20
Comment: J4 DATA FILE;9910062 D00068 L,5X
Mode: CONC Corr. Factor: 1

Elem	Al3082	Ba4934	Be3131	Ca3706	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	6.3167	.02682	.00072	1.2779	.00593	.00391	.00069
SDev	.0714	.00000	.00026	.0213	.00071	.00664	.00448
%RSD	1.1297	.00000	35.382	1.6687	11.956	169.73	649.45
#1	6.3672	.02682	.00054	1.2628	.00643	.00861	.00386
#2	6.2663	.02682	.00090	1.2930	.00543	-.00078	-.00248

Elem	Fe2599	Mg3832	Mn2576	Ni2316	K_7664	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	8.1445	1.6555	.12805	.00690	.79307	.01901	.01544
SDev	.0967	.0468	.00002	.00558	.02157	.00954	.00627
%RSD	1.1869	2.8284	.01460	80.876	2.7196	50.182	40.606
#1	8.2128	1.6887	.12806	.01085	.80832	.01227	.01987
#2	8.0761	1.6224	.12803	.00295	.77782	.02576	.01100

Elem	Zn2138
Units	ppm
Avge	.05420
SDev	.00007
%RSD	.12100
#1	.05415
#2	.05425

Method: 802 Sample Name: JICPCCV;CCV Operator: JJ
Run Time: 10/06/99 16:06:06
Comment: J4 DATA FILE;9910062
Mode: CONC Corr. Factor: 1 MR 991205B

Elem	Al3082	Ba4934	Be3131	Ca3706	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	10.358	10.217	.25285	25.258	1.0103	2.4958	1.2458
SDev	.133	.151	.00229	.347	.0196	.0266	.0111
%RSD	1.2812	1.4792	.90661	1.3726	1.9405	1.0643	.89270
#1	10.265	10.110	.25123	25.013	.99641	2.4771	1.2379
#2	10.452	10.324	.25447	25.503	1.0241	2.5146	1.2536

Elem	Fe2599	Mg3832	Mn2576	Ni2316	K_7664	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	5.1130	25.914	2.4997	2.4756	24.982	25.864	2.5656
SDev	.0607	.174	.0302	.0286	.280	.295	.0261
%RSD	1.1868	.67220	1.2070	1.1552	1.1224	1.1402	1.0178
#1	5.0701	25.791	2.4784	2.4554	24.783	25.655	2.5472
#2	5.1559	26.037	2.5210	2.4958	25.180	26.072	2.5841

Elem	Zn2138
Units	ppm
Avge	2.4793
SDev	.0383
%RSD	1.5453
#1	2.4522
#2	2.5064

Method: 802 Sample Name: CCB;CCB Operator: JJ
Run Time: 10/06/99 16:08:51
Comment: J4 DATA FILE;9910062 MR 991213B
Mode: CONC Corr. Factor: 1

Elem	Al3082	Ba4934	Be3131	Ca3706	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.04745	.00736	.00018	-.01496	-.00147	.00626	-.00003
SDev	.00140	.00184	.00000	.02104	.00280	.00111	.00225
%RSD	2.9622	24.957	.03097	140.66	189.91	17.685	6585.0
#1	.04844	.00865	.00018	-.00008	.00050	.00704	-.00163
#2	.04645	.00606	.00018	-.02984	-.00345	.00548	.00156

Elem	Fe2599	Mg3832	Mn2576	Ni2316	K_7664	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00524	.05165	.00050	.00296	-.07016	-.01595	.00662
SDev	.00035	.01498	.00000	.00000	.07765	.02429	.00001
%RSD	6.7344	29.010	.01166	.00001	110.68	152.30	.13797
#1	.00549	.04106	.00050	.00296	-.01525	.00123	.00663
#2	.00499	.06225	.00050	.00296	-.12506	-.03312	.00662

Elem	Zn2138
Units	ppm
Avge	-.00393
SDev	.00000
%RSD	.10093
#1	-.00393
#2	-.00394

Method: 802 Sample Name: -06;S Operator: JJ
Run Time: 10/06/99 16:11:37
Comment: J4 DATA FILE;9910062
Mode: CONC Corr. Factor: 1

D00069

Elem	Al3082	Ba4934	Be3131	Ca3706	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	14.739	.06879	.00216	2.8050	.01976	.01487	.01171
SDev	.112	.00061	.00026	.0417	.00070	.00221	.00224
%RSD	.76062	.88945	11.786	1.4860	3.5309	14.885	19.100
#1	14.660	.06836	.00198	2.7755	.02025	.01330	.01329
#2	14.818	.06923	.00234	2.8344	.01927	.01643	.01013

Elem	Fe2599	Mg3832	Mn2576	Ni2316	K_7664	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	24.976	5.0421	.36445	.02169	2.5927	.16805	.04126
SDev	.208	.1086	.00285	.00279	.1424	.05031	.00108
%RSD	.83200	2.1546	.78097	12.867	5.4905	29.936	2.6072
#1	24.829	4.9653	.36244	.01971	2.4921	.13248	.04050
#2	25.122	5.1189	.36646	.02366	2.6934	.20362	.04202

Elem	Zn2138
Units	ppm
Avge	.17110
SDev	.00114
%RSD	.66456
#1	.17190
#2	.17030

Method: 802 Sample Name: -07;S Operator: JJ
Run Time: 10/06/99 16:14:22
Comment: J4 DATA FILE;9910062

D00070

Mode: CONC Corr. Factor: 1

Elem	Al3082	Ba4934	Be3131	Ca3706	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	19.361	.08567	.00198	3.1384	.03652	.01565	.01590
SDev	.045	.00122	.00000	.0213	.00071	.00332	.00114
%RSD	.23123	1.4285	.00350	.67753	1.9307	21.196	7.1775
#1	19.329	.08653	.00198	3.1534	.03602	.01331	.01670
#2	19.393	.08480	.00198	3.1233	.03702	.01800	.01509

Elem	Fe2599	Mg3832	Mn2576	Ni2316	K_7664	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	27.696	6.5546	.62237	.02514	3.2729	.26741	.04842
SDev	.060	.0599	.00212	.01186	.1122	.02255	.00418
%RSD	.21782	.91442	.33999	47.174	3.4268	8.4334	8.6314
#1	27.654	6.5970	.62087	.01675	3.3522	.28336	.04546
#2	27.739	6.5122	.62386	.03352	3.1936	.25146	.05137

Elem	Zn2138
Units	ppm
Avge	.18940
SDev	.00544
%RSD	2.8742
#1	.18555
#2	.19325

Method: 802 Sample Name: -08;S Operator: JJ
Run Time: 10/06/99 16:17:07 D00071
Comment: J4 DATA FILE;9910062
Mode: CONC Corr. Factor: 1

Elem	Al3082	Ba4934	Be3131	Ca3706	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	34.396	.09692	.00378	3.4289	.04303	.01643	.02265
SDev	.153	.00245	.00051	.0210	.00419	.00000	.00112
%RSD	.44408	2.5254	13.475	.61320	9.7414	.01019	4.9404
#1	34.288	.09865	.00414	3.4437	.04599	.01644	.02186
#2	34.504	.09518	.00342	3.4140	.04007	.01643	.02344

Elem	Fe2599	Mg3832	Mn2576	Ni2316	K_7664	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	33.191	7.1572	.35500	.03056	3.5383	.27416	.06634
SDev	.008	.0618	.00000	.00419	.1941	.03383	.00103
%RSD	.02338	.86360	.00083	13.697	5.4862	12.339	1.5478
#1	33.196	7.2009	.35501	.02760	3.6756	.29808	.06561
#2	33.185	7.1135	.35500	.03352	3.4010	.25024	.06706

Elem	Zn2138
Units	ppm
Avge	.27430
SDev	.00329
%RSD	1.1975

#1	.27197
#2	.27662

Method: 802 Sample Name: -17;S Operator: JJ
Run Time: 10/06/99 16:19:52
Comment: J4 DATA FILE;9910062 D00080
Mode: CONC Corr. Factor: 1

Elem	Al3082	Ba4934	Be3131	Ca3706	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	24.762	.90988	.00720	163.18	.02183	.11036	7.5761
SDev	.002	.00184	.00026	1.54	.00769	.00221	.0259
%RSD	.00632	.20175	3.5359	.94163	35.223	2.0046	.34142
#1	24.761	.91118	.00702	162.09	.01640	.10880	7.5944
#2	24.763	.90858	.00738	164.26	.02727	.11192	7.5578

Elem	Fe2599	Mg3832	Mn2576	Ni2316	K_7664	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	75.682	69.729	4.7689	.07349	5.0665	1.4646	.03467
SDev	.486	.185	.0366	.00907	.0345	.0312	.00636
%RSD	.64236	.26592	.76686	12.340	.68114	2.1320	18.340
#1	75.339	69.598	4.7430	.06708	5.0421	1.4425	.03018
#2	76.026	69.860	4.7948	.07990	5.0909	1.4867	.03917

Elem	Zn2138
Units	ppm
Avge	.10345
SDev	.00213
%RSD	2.0595
#1	.10195
#2	.10496

Method: 802 Sample Name: PBS;PBS#802 Operator: JJ
Run Time: 10/06/99 16:26:50
Comment: J4 DATA FILE;9910062 1001 µ35,
Mode: CONC Corr. Factor: 1

Elem	Al3082	Ba4934	Be3131	Ca3706	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.08705	.00433	.00072	-.08953	.00199	.01017	-.00084
SDev	.07693	.00490	.00076	.16834	.01190	.00885	.00557
%RSD	88.377	113.14	106.09	188.03	598.01	87.032	665.16
#1	.03265	.00087	.00018	-.20856	-.00642	.00391	-.00478
#2	.14144	.00779	.00126	.02951	.01040	.01643	.00310

Elem	Fe2599	Mg3832	Mn2576	Ni2316	K_7664	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.01671	.18675	.00099	.01430	.07321	.03373	.00811
SDev	.00529	.21353	.00070	.01465	.25451	.08934	.01045
%RSD	31.662	114.34	70.566	102.41	347.66	264.84	128.90

#1	.01297	.03576	.00050	.00395	-.10676	-.02944	.00072
#2	.02046	.33773	.00149	.02466	.25317	.09691	.01550

Elem	Zn2138
Units	ppm
Avge	.01004
SDev	.00430
%RSD	42.832
#1	.00700
#2	.01308

Method: 802 Sample Name: J2CRDL;CRI Operator: JJ
Run Time: 10/06/99 16:31:22
Comment: J4 DATA FILE;9910062 mN 991005C
Mode: CONC Corr. Factor: 1

Elem	Al3082	Ba4934	Be3131	Ca3706	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.03179	Q-.00043	.00972	-.00150	.01746	.10175	.04641
SDev	.00692	.00061	.00026	.04221	.00420	.00111	.00335
%RSD	21.781	141.42	2.6194	2817.5	24.060	1.0867	7.2297
#1	.03669	Q-.00087	.00990	-.03134	.02043	.10253	.04878
#2	.02690	Q.00000	.00954	.02835	.01449	.10096	.04403

Elem	Fe2599	Mg3832	Mn2576	Ni2316	K_7664	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.01197	.03841	.02877	.08238	-.13912	-.04416	.10320
SDev	.00212	.04121	.00070	.00628	.03020	.01041	.00418
%RSD	17.678	107.29	2.4369	7.6219	15.967	23.570	4.0520
#1	.01347	.00927	.02827	.08681	-.16776	-.05152	.10586
#2	.01048	.06755	.02926	.07794	-.21047	-.03680	.10095

Elem	Zn2138
Units	ppm
Avge	.04203
SDev	.00005
%RSD	.10790
#1	.04199
#2	.04206

Method: 802 Sample Name: ICSA;ICSA Operator: JJ
Run Time: 10/06/99 16:34:08
Comment: J4 DATA FILE;9910062 mN 990913 B
Mode: CONC Corr. Factor: 1

Elem	Al3082	Ba4934	Be3131	Ca3706	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	506.85	.00779	.00054	476.29	.00052	.00235	-.00910
SDev	4.11	.00122	.00000	4.47	.00279	.00221	.00437
%RSD	.81176	15.713	.01702	.93940	541.02	94.217	48.053

#1	503.95	.00692	.00054	473.12	-.00146	.00078	-.00601
#2	509.76	.00865	.00054	479.45	.00249	.00391	-.01220

Elem	Fe2599	Mg3832	Mn2576	Ni2316	K_7664	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	187.50	503.07	.00516	-.00247	.00305	-.11162	.01340
SDev	1.55	5.83	.00043	.00349	.06902	.00000	.00180
%RSD	.82561	1.1590	8.3044	141.49	2262.8	.00000	12.520

#1	186.41	498.95	.00547	-.00493	.05185	-.11162	.01568
#2	188.60	507.20	.00486	.00000	-.04575	-.11162	.01313

Elem	Zn2138
Units	ppm
Avge	-.01142
SDev	.00019
%RSD	1.6344

#1	-.01129
#2	-.01155

Method: 202 Sample Name: ICSAB4;ICSAB Operator: JJ
Run Time: 10/06/99 16:36:54
Comment: J4 DATA FILE;9910062 MN99120 5 D
Mode: CONC Corr. Factor: 1

Elem	Al3082	Ba4934	Be3131	Ca3706	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	517.99	.51659	.50432	483.00	.46822	.46869	.44783
SDev	3.37	.00367	.00229	1.02	.00349	.00221	.00605
%RSD	.65049	.71066	.45459	.21128	.74604	.47230	.01359

#1	515.61	.51400	.50270	482.28	.46575	.47026	.44779
#2	520.37	.51919	.50594	483.72	.47069	.46713	.44786

Elem	Fe2599	Mg3832	Mn2576	Ni2316	K_7664	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	190.83	513.55	.47245	.91299	-.07626	-.04784	.50330
SDev	.70	3.68	.00129	.00070	.07765	.00347	.00091
%RSD	.36512	.71741	.27385	.07641	101.82	7.2524	.18050

#1	190.34	510.94	.47336	.91348	-.13116	-.04539	.50394
#2	191.33	516.15	.47153	.91249	-.02135	-.05029	.50266

Elem	Zn2138
Units	ppm
Avge	.96804
SDev	.00008
%RSD	.00822

#1	.96810
#2	.96799

Method: 802 Sample Name: JICPCCV;CCV Operator: JJ
Run Time: 10/06/99 16:39:39
Comment: J4 DATA FILE;9910062 MN 991005B
Mode: CONC Corr. Factor: 1

Elem	Al3082	Ba4934	Be3131	Ca3706	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	10.844	10.571	.25843	25.822	1.0336	2.5483	1.2852
SDev	.111	.171	.00306	.283	.0063	.0409	.0155
%RSD	1.0273	1.6149	1.1825	1.0978	.61438	1.6069	1.2090
#1	10.765	10.450	.25627	25.622	1.0291	2.5193	1.2743
#2	10.923	10.692	.26059	26.023	1.0381	2.5772	1.2962

Elem	Fe2599	Mg3832	Mn2576	Ni2316	K_7664	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	5.3916	26.743	2.5592	2.5155	25.555	26.618	2.6298
SDev	.0353	.144	.0330	.0474	.168	.248	.0417
%RSD	.66545	.53929	1.2884	1.8835	.65832	.93195	1.5852
#1	5.2767	26.641	2.5359	2.4849	25.674	26.443	2.6003
#2	5.3265	26.845	2.5826	2.5520	25.436	26.794	2.6593

Elem	Zn2138
Units	ppm
Avge	2.5348
SDev	.0272
%RSD	1.0716
#1	2.5156
#2	2.5541

Method: 802 Sample Name: CCB;CCB Operator: JJ
Run Time: 10/06/99 16:42:25
Comment: J4 DATA FILE;9910062 MR 991005B
Mode: CONC Corr. Factor: 1

Elem	Al3082	Ba4934	Be3131	Ca3706	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.07028	.00519	.00018	-.07454	-.00494	.00156	-.00081
SDev	.04482	.00122	.00000	.02103	.00070	.00110	.00337
%RSD	63.765	23.570	.03088	28.219	14.094	70.568	414.12
#1	.10197	.00606	.00018	-.05967	-.00543	.00235	.00157
#2	.03859	.00433	.00018	-.08941	-.00444	.00078	-.00319

Elem	Fe2599	Mg3832	Mn2576	Ni2316	K_7664	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.02195	.08609	.00100	.00197	-.15556	-.04171	.00367
SDev	.00706	.02622	.00070	.00977	.12078	.00694	.00208
%RSD	32.141	30.460	70.545	494.85	77.643	16.638	56.726
#1	.02694	.10463	.00149	.00888	-.07016	-.04661	.00514
#2	.01696	.06755	.00050	-.00493	-.24097	-.03680	.00220

Elem	Zn2138
Units	ppm

Avge	-.00392
SDev	.00436
%SD	111.21
#1	-.00084
#2	-.00700

Method: 802 Standard: OSTANDARD MR990913B

Elem	As1890	Tl1908	Cd2265	Ag3280	Al3082	Ca3179	Fe2714
Avge	.4490	-.0850	-.1500	4.917	.9085	.3580	1.328
SDev	.1541	.0764	.1160	.025	.0007	.0000	.011
%RSD	34.33	89.84	77.31	.5177	.0778	.0000	.8519
#1	.5580	-.0310	-.2320	4.935	.9090	.3580	1.336
#2	.3400	-.1390	-.0680	4.899	.9080	.3580	1.320

Elem	Mg2790	Mn2576	V_2924	P1	P2	S1	S2
Avge	1.084	.0400	.1575	.4520	-.2790	-.1295	.1785
SDev	.003	.0000	.0007	.5770	.2489	.1393	.1959
%RSD	.2609	.0000	.4490	127.7	89.21	107.6	109.7
#1	1.086	.0400	.1580	.8600	-.4550	-.0310	.0400
#2	1.082	.0400	.1570	.0440	-.1030	-.2280	.3170

Elem	A1	A2
Avge	-.4050	.1335
SDev	.4808	.0827
%RSD	118.7	61.97
#1	-.7450	.1920
#2	-.0650	.0750

Method: 802 Standard: STANDARD8 MN 990927A

Elem	As1890	Tl1908	Cd2265	Ag3280	P1	P2	S1
Avge	101.3	53.10	101.8	56.90	292.9	216.1	45.83
SDev	.4	.36	.1	.29	.4	.1	.06
%RSD	.4327	.6804	.1264	.5058	.1224	.0409	.1296
#1	101.0	52.85	101.8	56.70	292.7	216.1	45.87
#2	101.6	53.36	101.9	57.10	293.2	216.2	45.78

Elem	S2	A1	A2
Avge	54.73	158.3	43.60
SDev	.26	1.1	.18
%RSD	.4832	.7095	.4184
#1	54.54	157.5	43.47
#2	54.92	159.1	43.73

Method: 802 — — Standard: STANDARD7 MN990913B

Elem	Al3082	Ca3179	Fe2714	Mg2790
Avge	642.1	139.1	178.6	876.0
SDev	1.8	.4	.7	2.1
%RSD	.2761	.2908	.3833	.2404
#1	640.8	138.8	178.1	874.5
#2	643.3	139.4	179.1	877.5

Method: 802 Standard: STANDARD9 MW99C917E

Elem	Mn2576	V_2924
Avge	18.73	11.90
SDev	.32	.21
%RSD	1.710	1.795
#1	18.51	11.75
#2	18.96	12.05

Method: 802 Sample Name: TICPICV;ICV Operator: JJ
Run Time: 10/06/99 15:14:48 MW99C917E
Comment: J3 DATA FILE;9910062
Mode: CONC Corr. Factor: 1

Elem	As1890	Pb2203	Se1960	Sb2068	Tl1908	Cd2265	Ag3280
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	24.05	24.64	25.09	24.15	24.88	12.56	25.90
SDev	.87	.36	.98	.97	.79	.18	1.27
%RSD	3.623	1.468	3.891	4.026	3.174	1.441	4.908
#1	23.43	24.38	24.40	23.46	24.32	12.43	26.80
#2	24.66	24.89	25.78	24.84	25.44	12.69	25.00

Elem	Al3082	Ca3179	Fe2714	Mg2790	Mn2576	V_2924	P1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppb
Avge	.2250	.5587	.1425	.5577	.0509	.0509	23.53
SDev	.0033	.0000	.0263	.0081	.0017	.0006	2.09
%RSD	1.471	.0000	18.47	1.451	3.341	1.188	8.888
#1	.2226	.5587	.1612	.5520	.0497	.0504	22.05
#2	.2273	.5587	.1239	.5634	.0521	.0513	25.01

Elem	P2	S1	S2	A1	A2
Units	ppb	ppb	ppb	ppb	ppb
Avge	25.19	28.49	23.39	25.89	23.27
SDev	.50	2.28	.33	1.42	2.17
%RSD	1.993	7.990	1.398	5.476	9.307
#1	25.54	26.88	23.16	26.90	21.74
#2	24.83	30.10	23.62	24.89	24.80

Method: 802 Sample Name: ICB;ICB Operator: JJ
Run Time: 10/06/99 15:17:51 MR99C913B
Comment: J3 DATA FILE;9910062
Mode: CONC Corr. Factor: 1

Elem	As1890	Pb2203	Se1960	Sb2068	Tl1908	Cd2265	Ag3280
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-3.659	.3755	-2.109	-.4239	-.5082	.1101	.6347
SDev	.951	.2498	1.029	.7117	1.0704	.1445	1.039
%RSD	25.99	66.54	48.79	167.9	210.6	131.3	163.7
#1	-2.986	.5521	-2.837	.0794	.2488	.2123	1.369
#2	-4.331	.1988	-1.382	-.9272	-1.265	.0079	-.100

Elem	Al3082	Ca3179	Fe2714	Mg2790	Mn2576	V_2924	P1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppb
Avge	.0682	.0649	.0254	.0657	.0007	.0008	-1.008
SDev	.0915	.0969	.0614	.0945	.0009	.0015	.011
%RSD	134.1	149.3	242.1	143.9	141.5	176.8	1.116
#1	.1330	.1334	.0688	.1325	.0013	.0019	-.9996
#2	.0035	-.0036	-.0181	-.0011	-.0000	-.0002	-1.015

Elem	P2	S1	S2	A1	A2
Units	ppb	ppb	ppb	ppb	ppb
Avge	1.066	-1.274	-2.526	2.002	-1.647
SDev	.369	.186	1.450	.844	.646
%RSD	34.61	14.59	57.40	42.17	39.20
#1	1.327	-1.406	-3.551	2.599	-1.190
#2	.8050	-1.143	-1.501	1.405	-2.103

Method: 802 Sample Name: T2CRDL;CRI Operator: JJ
Run Time: 10/06/99 15:20:54 mw990917 G
Comment: J3 DATA FILE;9910062
Mode: CONC Corr. Factor: 1

Elem	As1890	Pb2203	Se1960	Sb2068	Tl1908	Cd2265	Ag3280
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	17.45	5.504	8.840	124.2	19.62	9.988	20.47
SDev	1.43	.577	.854	.4	.43	.144	.07
%RSD	8.199	10.48	9.660	.3254	2.171	1.445	.3300
#1	16.44	5.912	8.236	124.0	19.93	9.886	20.42
#2	18.46	5.096	9.444	124.5	19.32	10.09	20.52

Elem	Al3082	Ca3179	Fe2714	Mg2790	Mn2576	V_2924	P1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppb
Avge	.0226	-.0216	.0502	.0137	.0314	.1035	6.180
SDev	.0006	.0051	.0024	.0016	.0006	.0015	3.061
%RSD	2.438	23.57	4.766	11.80	1.805	1.455	49.52
#1	.0222	-.0252	.0519	.0148	.0310	.1024	8.345
#2	.0230	-.0180	.0485	.0125	.0318	.1045	4.016

Elem	P2	S1	S2	A1	A2
Units	ppb	ppb	ppb	ppb	ppb
Avge	5.167	16.78	4.878	121.1	125.8
SDev	.663	2.60	2.579	4.2	1.5
%RSD	12.84	15.50	52.86	3.476	1.190
#1	4.698	18.62	3.055	118.2	126.8
#2	5.636	14.94	6.701	124.1	124.7

Method: 802 Sample Name: ICSA;ICSA Operator: JJ
Run Time: 10/06/99 15:23:57 mw990913 B
Comment: J3 DATA FILE;9910062
Mode: CONC Corr. Factor: 1

Elem	As1890	Pb2203	Se1960	Sb2068	Tl1908	Cd2265	Ag3280
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-1.615	-2.674	8.572	-1.220	2.065	3.514	7.139
SDev	3.545	.205	.146	2.312	1.954	.637	1.870
%RSD	219.5	7.677	1.707	189.4	94.63	18.12	26.19
#1	.8913	-2.529	8.675	.4144	3.446	3.964	5.816
#2	-4.122	-2.819	8.468	-2.855	.6831	3.063	8.461

Elem	Al3082	Ca3179	Fe2714	Mg2790	Mn2576	V_2924	P1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppb
Avge	485.4	489.1	195.2	489.8	-.0148	-.0383	1.153
SDev	13.0	9.6	4.2	9.5	.0006	.0028	10.78
%RSD	2.674	1.956	2.168	1.938	4.081	7.289	934.9
#1	494.6	495.9	198.2	496.6	-.0152	-.0403	-6.470
#2	476.2	482.4	192.2	483.1	-.0143	-.0364	8.777

Elem	P2	S1	S2	A1	A2
Units	ppb	ppb	ppb	ppb	ppb
Avge	-4.584	1.774	11.97	10.41	-7.036
SDev	5.690	20.13	10.27	11.68	2.364
%RSD	124.1	1134.	85.81	112.2	33.60
#1	-.5606	-12.46	19.23	18.66	-8.708
#2	-8.608	16.01	4.705	2.147	-5.364

Method: 802 Sample Name: ICSAB4;ICSAB Operator: JJ
Run Time: 10/06/99 15:27:00
Comment: J3 DATA FILE;9910062 MC 99C9730
Mode: CONC Corr. Factor: 1

Elem	As1890	Pb2203	Se1960	Sb2068	Tl1908	Cd2265	Ag3280
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	96.43	44.15	55.34	575.1	89.57	47.65	211.1
SDev	2.61	1.31	1.03	2.7	5.67	1.46	3.0
%RSD	2.704	2.973	1.864	.4719	6.335	3.074	1.442
#1	98.27	45.07	56.07	577.0	93.58	48.68	213.3
#2	94.58	43.22	54.61	573.2	85.56	46.61	209.0

Elem	Al3082	Ca3179	Fe2714	Mg2790	Mn2576	V_2924	P1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppb
Avge	492.1	494.9	197.4	494.3	.4569	.4433	43.94
SDev	12.2	7.8	3.4	7.8	.0081	.0079	3.16
%RSD	2.481	1.584	1.720	1.581	1.782	1.776	7.201
#1	500.7	500.4	199.8	499.8	.4626	.4489	41.70
#2	483.4	489.4	195.0	488.7	.4511	.4377	46.18

Elem	P2	S1	S2	A1	A2
Units	ppb	ppb	ppb	ppb	ppb
Avge	44.25	34.75	65.61	600.1	562.6
SDev	3.55	6.97	5.02	22.0	6.9
%RSD	8.017	20.05	7.658	3.661	1.226

#1	46.76	29.82	69.17	615.6	557.7
#2	41.74	39.68	62.06	584.6	567.5

Method: 802 Sample Name: TICPCCV;CCV Operator: JJ
Run Time: 10/06/99 15:30:03
Comment: J3 DATA FILE;9910062 MN990927G
Mode: CONC Corr. Factor: 1

Elem	As1890	Pb2203	Se1960	Sb2068	Tl1908	Cd2265	Ag3280
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	48.55	49.36	52.66	49.57	50.08	24.56	52.23
SDev	.90	.97	.70	.99	1.64	.64	.02
%RSD	1.852	1.962	1.332	1.992	3.276	2.591	.0374
#1	49.18	50.05	53.16	48.88	51.24	25.01	52.21
#2	47.91	48.68	52.17	50.27	48.92	24.11	52.24

Elem	Al3082	Ca3179	Fe2714	Mg2790	Mn2576	V_2924	P1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppb
Avge	.4710	1.143	.3212	1.118	.1005	.1007	50.67
SDev	.0039	.005	.0255	.004	.0019	.0012	2.28
%RSD	.8195	.4461	7.949	.3264	1.881	1.199	4.501
#1	.4682	1.146	.3031	1.120	.1019	.1015	52.28
#2	.4737	1.139	.3393	1.115	.0992	.0998	49.05

Elem	P2	S1	S2	A1	A2
Units	ppb	ppb	ppb	ppb	ppb
Avge	48.71	55.48	51.26	49.60	49.55
SDev	.31	1.40	.35	1.57	.70
%RSD	.6433	2.523	.6886	3.164	1.407
#1	48.93	56.47	51.51	48.49	49.05
#2	48.49	54.49	51.01	50.71	50.04

Method: 802 Sample Name: CCB;CCB Operator: JJ
Run Time: 10/06/99 15:33:05
Comment: J3 DATA FILE;9910062 MR990913B
Mode: CONC Corr. Factor: 1

Elem	As1890	Pb2203	Se1960	Sb2068	Tl1908	Cd2265	Ag3280
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-2.669	-.2935	-1.349	-.0326	.8022	-.0535	2.864
SDev	.576	.4756	1.034	.7324	.1564	.0256	.066
%RSD	21.57	162.0	76.68	2244.	19.50	47.81	2.289
#1	-2.262	-.6298	-2.080	.4853	.9128	-.0354	2.910
#2	-3.077	.0428	-.6176	-.5505	.6916	-.0716	2.818

Elem	Al3082	Ca3179	Fe2714	Mg2790	Mn2576	V_2924	P1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppb
Avge	.0238	.0162	.0400	.0174	-.0000	.0019	.4623
SDev	.0033	.0026	.0104	.0020	.0000	.0000	.6315
%RSD	13.91	15.71	25.90	11.63	13.91	.0367	136.6

#1	.0261	.0180	.0327	.0188	-.0000	.0019	.0158
#2	.0214	.0144	.0474	.0160	-.0000	.0019	.9088

Elem	P2	S1	S2	A1	A2
Units	ppb	ppb	ppb	ppb	ppb
Avge	-.6708	2.470	-3.256	1.589	-.8544
SDev	.3977	1.385	.859	.080	1.0582
%RSD	59.29	56.08	26.39	5.026	123.8
#1	-.9520	1.490	-3.863	1.646	-.1062
#2	-.3896	3.449	-2.648	1.533	-1.603

Method: 802 Sample Name: PBW;PBW#802 Operator: JJ
Run Time: 10/06/99 15:36:08
Comment: J3 DATA FILE;9910062 100/ PBW;
Mode: CONC Corr. Factor: 1

Elem	As1890	Pb2203	Se1960	Sb2068	Tl1908	Cd2265	Ag3280
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-2.730	.9910	-.9600	-1.192	1.083	.0782	2.512
SDev	.085	.1659	.9859	.027	1.181	.1660	.627
%RSD	3.099	16.74	102.7	2.298	109.1	212.4	24.95
#1	-2.790	1.108	-1.657	-1.211	.2478	.1956	2.956
#2	-2.670	.8737	-.2629	-1.172	1.918	-.0392	2.069

Elem	Al3082	Ca3179	Fe2714	Mg2790	Mn2576	V_2924	P1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppb
Avge	.0526	.0216	.0654	.0331	.0007	.0015	.3717
SDev	.0000	.0051	.0064	.0032	.0002	.0000	3.866
%RSD	.0000	23.57	9.753	9.753	28.42	.0388	1040.
#1	.0526	.0252	.0699	.0354	.0008	.0015	-2.362
#2	.0526	.0180	.0609	.0308	.0005	.0015	3.105

Elem	P2	S1	S2	A1	A2
Units	ppb	ppb	ppb	ppb	ppb
Avge	1.300	2.698	-2.786	1.637	-2.616
SDev	2.179	3.277	.158	2.982	1.530
%RSD	167.6	121.5	5.670	182.1	58.46
#1	2.841	.3808	-2.675	3.746	-3.698
#2	-.2405	5.015	-2.898	-.4707	-1.535

Method: 802 Sample Name: LCSW;LCSW#802 Operator: JJ
Run Time: 10/06/99 15:39:11
Comment: J3 DATA FILE;9910062 100/ LCSW;
Mode: CONC Corr. Factor: 1

Elem	As1890	Pb2203	Se1960	Sb2068	Tl1908	Cd2265	Ag3280
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	189.2	184.4	196.6	464.5	180.6	91.37	1155.
SDev	1.7	.5	3.7	1.6	2.0	.54	6.
%RSD	.8967	.2967	1.865	.3355	1.107	.5884	.537

#1	188.0	184.8	194.0	463.4	179.2	91.75	1159.
#2	190.4	184.0	199.2	465.6	182.1	90.99	1150.

Elem	Al3082	Ca3179	Fe2714	Mg2790	Mn2576	V_2924	P1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppb
Avge	10.32	25.88	5.827	25.47	2.356	2.366	183.9
SDev	.06	.14	.021	.13	.014	.013	.2
%RSD	.6196	.5319	.3690	.5013	.5857	.5598	.1292
#1	10.37	25.97	5.842	25.56	2.366	2.375	183.7
#2	10.28	25.78	5.811	25.38	2.346	2.357	184.1

Elem	P2	S1	S2	A1	A2
Units	ppb	ppb	ppb	ppb	ppb
Avge	184.7	199.4	195.2	455.5	469.0
SDev	.9	2.8	6.9	.5	2.6
%RSD	.5084	1.380	3.519	.1107	.5519
#1	185.4	201.3	190.4	455.9	467.1
#2	184.0	197.4	200.1	455.2	470.8

Method: 802 Sample Name: 990802-01;S Operator: JJ
Run Time: 10/06/99 15:42:14
Comment: J3 DATA FILE;9910062 Dup04
Mode: CONC Corr. Factor: 1

Elem	As1890	Pb2203	Se1960	Sb2068	Tl1908	Cd2265	Ag3280
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-1.085	1.094	.3995	-.5694	1.765	.2443	4.900
SDev	.918	.012	.8116	2.0190	.021	.0640	.328
%RSD	84.60	1.121	203.1	354.6	1.185	26.20	6.703
#1	-1.733	1.102	.9733	-1.997	1.780	.1990	4.668
#2	-.4357	1.085	-.1744	.8582	1.750	.2895	5.133

Elem	Al3082	Ca3179	Fe2714	Mg2790	Mn2576	V_2924	P1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppb
Avge	.0990	3.548	.4195	.7170	.0159	.0036	-.4308
SDev	.0193	.023	.0175	.0210	.0006	.0006	1.6860
%RSD	19.49	.6464	4.183	2.929	3.559	16.76	391.4
#1	.0854	3.532	.4071	.7021	.0155	.0032	.7614
#2	.1127	3.565	.4319	.7318	.0163	.0040	-1.623

Elem	P2	S1	S2	A1	A2
Units	ppb	ppb	ppb	ppb	ppb
Avge	1.855	-.4721	.8346	3.703	-2.714
SDev	.823	3.6466	.6038	4.176	.942
%RSD	44.39	772.5	72.35	112.8	34.70
#1	1.273	2.106	.4076	.7501	-3.380
#2	2.437	-3.051	1.262	6.656	-2.048

Method: 802 Sample Name: -01;S2 Dup Operator: JJ
Dup064

Run Time: 10/06/99 15:45:17
Comment: J3 DATA FILE;9910062
Mode: CONC Corr. Factor: 1

Elem	As1890	Pb2203	Se1960	Sb2068	Tl1908	Cd2265	Ag3280
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-3.567	.8542	-1.670	-.5539	1.670	.0110	2.662
SDev	.827	.2125	1.662	.5827	.307	.1371	.463
%RSD	23.18	24.88	99.55	105.2	18.40	1249.	17.40
#1	-2.983	1.004	-.4943	-.1418	1.887	.1080	2.990
#2	-4.152	.7039	-2.845	-.9659	1.452	-.0860	2.335

Elem	Al3082	Ca3179	Fe2714	Mg2790	Mn2576	V_2924	P1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppb
Avge	.0597	3.282	.2627	.6436	.0140	.0015	-.1100
SDev	.0055	.003	.0048	.0036	.0002	.0006	.6333
%RSD	9.243	.0777	1.822	.5647	1.345	41.12	575.5
#1	.0636	3.284	.2661	.6462	.0142	.0019	-.5578
#2	.0558	3.280	.2593	.6411	.0139	.0010	.3378

Elem	P2	S1	S2	A1	A2
Units	ppb	ppb	ppb	ppb	ppb
Avge	1.336	.9290	-2.967	1.121	-1.402
SDev	.635	2.339	1.324	1.457	.146
%RSD	47.53	251.7	44.63	130.1	10.42
#1	1.784	2.583	-2.030	2.151	-1.299
#2	.8867	-.7247	-3.903	.0900	-1.505

Method: 802 Sample Name: -01;DS Spk Operator: JJ
Run Time: 10/06/99 15:48:20
Comment: J3 DATA FILE;9910062 Dec. 4
Mode: CONC Corr. Factor: 1

Elem	As1890	Pb2203	Se1960	Sb2068	Tl1908	Cd2265	Ag3280
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	40.19	21.51	10.59	504.0	49.01	48.20	52.99
SDev	1.47	.45	3.39	8.7	.77	.01	.27
%RSD	3.663	2.112	32.05	1.726	1.576	.0239	.5170
#1	41.23	21.19	12.99	510.1	49.55	48.19	52.80
#2	39.14	21.83	8.190	497.8	48.46	48.21	53.19

Elem	Al3082	Ca3179	Fe2714	Mg2790	Mn2576	V_2924	P1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppb
Avge	2.267	3.803	1.617	.8247	.5203	.4988	21.62
SDev	.133	.138	.041	.1248	.0034	.0027	.52
%RSD	5.862	3.619	2.564	15.14	.6527	.5407	2.394
#1	2.361	3.900	1.646	.9130	.5227	.5007	21.99
#2	2.173	3.705	1.587	.7364	.5179	.4969	21.26

Elem	P2	S1	S2	A1	A2
Units	ppb	ppb	ppb	ppb	ppb
Avge	21.45	16.09	7.844	507.3	502.3

SDev	.94	4.07	3.055	9.6	8.2
%RSD	4.379	25.32	38.95	1.893	1.641
#1	20.79	18.97	10.00	514.1	508.1
#2	22.11	13.21	5.683	500.5	496.5

Method: 802 Sample Name: -01;ISD/5 L;SX Operator: JJ
Run Time: 10/06/99 15:51:23
Comment: J3 DATA FILE;9910062 D0064
Mode: CONC Corr. Factor: 1

Elem	As1890	Pb2203	Se1960	Sb2068	Tl1908	Cd2265	Ag3280
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-2.279	.3377	-.0452	-.9340	.1804	.3410	4.939
SDev	.380	.0326	.9192	.1515	.6844	.3976	1.405
%RSD	16.68	9.647	2035.	16.22	379.5	116.6	28.45
#1	-2.010	.3607	-.6952	-1.041	-.3036	.0599	3.946
#2	-2.547	.3146	.6048	-.8269	.6643	.6222	5.933

Elem	Al3082	Ca3179	Fe2714	Mg2790	Mn2576	V_2924	P1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppb
Avge	.0495	.8308	.1263	.1668	.0035	.0034	-3.537
SDev	.0044	.0026	.0207	.0073	.0000	.0009	7.945
%RSD	8.908	.3068	16.42	4.355	.0077	26.57	224.6
#1	.0464	.8290	.1117	.1617	.0035	.0028	2.081
#2	.0526	.8326	.1410	.1719	.0035	.0040	-9.155

Elem	P2	S1	S2	A1	A2
Units	ppb	ppb	ppb	ppb	ppb
Avge	2.272	.2951	-.2151	4.104	-3.461
SDev	3.918	13.51	8.1222	7.920	3.727
%RSD	172.4	4577.	3777.	193.0	107.7
#1	-.4982	9.847	-5.958	-1.496	-.8258
#2	5.042	-9.257	5.528	9.703	-6.096

Method: 802 Sample Name: -02;S Operator: JJ
Run Time: 10/06/99 15:54:25 D0065
Comment: J3 DATA FILE;9910062
Mode: CONC Corr. Factor: 1

Elem	As1890	Pb2203	Se1960	Sb2068	Tl1908	Cd2265	Ag3280
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-2.352	1.540	-.7716	-.5170	-.0755	-.0087	2.835
SDev	1.823	1.315	1.9648	2.2437	.4374	.3111	1.049
%RSD	77.51	85.41	254.6	434.0	579.1	3570.	37.00
#1	-3.641	2.470	.6177	-2.103	-.3849	.2113	3.576
#2	-1.063	.6098	-2.161	1.070	.2338	-.2287	2.093

Elem	Al3082	Ca3179	Fe2714	Mg2790	Mn2576	V_2924	P1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppb
Avge	.1076	3.548	.3321	.6859	.0147	.0017	.3365

SDev	.0028	.038	.0040	.0004	.0000	.0009	8.204
%RSD	2.562	1.077	1.201	.0592	.0011	54.19	2438.
#1	.1096	3.521	.3349	.6856	.0147	.0023	-5.465
#2	.1057	3.575	.3292	.6862	.0147	.0010	6.138

Elem	P2	S1	S2	A1	A2
Units	ppb	ppb	ppb	ppb	ppb
Avge	2.140	-.4526	-.9308	2.717	-2.144
SDev	6.067	9.0314	7.4546	6.849	6.783
%RSD	283.5	1996.	800.9	252.1	316.4
#1	6.431	-6.839	4.340	7.560	-6.940
#2	-2.150	5.934	-6.202	-2.126	2.653

Method: 802 Sample Name: -03;S Operator: JJ
Run Time: 10/06/99 15:57:27 Dec 6b
Comment: J3 DATA FILE;9910062
Mode: CONC Corr. Factor: 1

Elem	As1890	Pb2203	Se1960	Sb2068	Tl1908	Cd2265	Ag3280
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-2.060	.7122	.8171	.1900	.8875	.0512	5.188
SDev	3.391	1.177	.8639	.3247	1.644	.0575	2.429
%RSD	164.6	165.3	105.7	170.9	185.2	112.2	46.82
#1	-4.458	1.544	1.428	-.0396	-.2747	.0918	3.470
#2	.3382	-.1200	.2062	.4196	2.050	.0106	6.905

Elem	Al3082	Ca3179	Fe2714	Mg2790	Mn2576	V_2924	P1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppb
Avge	.1146	4.626	.4071	.7781	.0211	.0038	1.681
SDev	.0061	.110	.0271	.0032	.0004	.0015	2.917
%RSD	5.291	2.369	6.664	.4171	1.792	39.67	173.6
#1	.1103	4.704	.3879	.7804	.0214	.0027	-.3818
#2	.1189	4.549	.4262	.7758	.0209	.0049	3.743

Elem	P2	S1	S2	A1	A2
Units	ppb	ppb	ppb	ppb	ppb
Avge	.2288	5.435	-1.488	.1986	.1736
SDev	3.221	3.693	3.139	1.073	1.023
%RSD	1408.	67.95	210.9	540.2	588.9
#1	2.506	2.823	.7313	.9574	-.5494
#2	-2.049	8.046	-3.708	-.5602	.8967

Method: 802 Sample Name: TICPCCV;CCV Operator: JJ
Run Time: 10/06/99 16:00:30 MW 9909276
Comment: J3 DATA FILE;9910062
Mode: CONC Corr. Factor: 1

Elem	As1890	Pb2203	Se1960	Sb2068	Tl1908	Cd2265	Ag3280
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	48.77	50.40	51.90	50.20	49.45	24.92	51.57

1023

SDev	1.48	.83	2.62	.63	.47	.11	.17
%RSD	3.030	1.651	5.050	1.247	.9545	.4605	.3335
#1	47.73	49.81	50.05	49.76	49.78	25.00	51.69
#2	49.82	50.99	53.76	50.64	49.11	24.84	51.45

Elem	Al3082	Ca3179	Fe2714	Mg2790	Mn2576	V_2924	P1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppb
Avge	.4616	1.117	.2857	1.116	.1021	.1013	50.93
SDev	.0028	.000	.0215	.002	.0004	.0003	2.81
%RSD	.5972	.0000	7.541	.1458	.3705	.2952	5.516
#1	.4597	1.117	.2704	1.117	.1024	.1011	52.92
#2	.4636	1.117	.3009	1.115	.1019	.1015	48.95

Elem	P2	S1	S2	A1	A2
Units	ppb	ppb	ppb	ppb	ppb
Avge	50.13	52.78	51.47	51.39	49.60
SDev	2.65	.66	4.26	2.57	.34
%RSD	5.285	1.253	8.277	4.996	.6923
#1	48.26	53.25	48.45	49.58	49.84
#2	52.01	52.31	54.48	53.21	49.35

Method: 802 Sample Name: CCB;CCB Operator: JJ
Run Time: 10/06/99 16:03:33
Comment: J3 DATA FILE;9910062 AR99-913B
Mode: CONC Corr. Factor: 1

Elem	As1890	Pb2203	Se1960	Sb2068	Tl1908	Cd2265	Ag3280
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-3.854	.0514	.1622	-1.098	1.195	.1631	2.468
SDev	5.291	.5895	.8625	.384	1.366	.1144	1.992
%RSD	137.3	1146.	531.9	34.98	114.3	70.16	80.69
#1	-.1124	.4683	-.4477	-1.369	2.161	.0822	3.877
#2	-7.595	-.3654	.7720	-.8262	.2294	.2440	1.060

Elem	Al3082	Ca3179	Fe2714	Mg2790	Mn2576	V_2924	P1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppb
Avge	.0277	.0054	.0333	.0151	.0001	.0017	-1.419
SDev	.0088	.0127	.0311	.0125	.0002	.0015	4.281
%RSD	31.87	235.7	93.48	82.71	142.8	88.44	301.7
#1	.0339	.0144	.0553	.0240	.0003	.0028	1.608
#2	.0214	-.0036	.0113	.0063	-.0000	.0006	-4.446

Elem	P2	S1	S2	A1	A2
Units	ppb	ppb	ppb	ppb	ppb
Avge	.7855	-.0001	.2432	2.629	-2.970
SDev	1.254	4.4469	3.513	5.872	2.356
%RSD	159.6	6280000.	1445.	223.4	79.32
#1	-.1008	3.144	-2.241	-1.523	-1.304
#2	1.672	-3.145	2.727	6.781	-4.636

Method: 802 Sample Name: -04;S Operator: JJ
Run Time: 10/06/99 16:06:35
Comment: J3 DATA FILE;9910062 Dec 17
Mode: CONC Corr. Factor: 1

Elem	As1890	Pb2203	Se1960	Sb2068	Tl1908	Cd2265	Ag3280
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-.9378	59.20	-.1230	-.5197	1.695	.0318	4.008
SDev	.1429	.18	1.3062	.5510	.608	.0511	.177
%RSD	15.23	.3033	1062.	106.0	35.91	160.9	4.429
#1	-.8368	59.07	-1.047	-.1302	1.264	-.0044	4.133
#2	-1.039	59.32	.8006	-.9093	2.125	.0679	3.882

Elem	Al3082	Ca3179	Fe2714	Mg2790	Mn2576	V_2924	P1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppb
Avge	1.398	3.712	.3653	.7607	.0185	.0026	58.51
SDev	.131	.000	.0032	.0004	.0002	.0000	.94
%RSD	9.347	.0000	.8735	.0529	.9790	.3577	1.607
#1	1.491	3.712	.3676	.7610	.0186	.0026	59.17
#2	1.306	3.712	.3631	.7604	.0184	.0026	57.84

Elem	P2	S1	S2	A1	A2
Units	ppb	ppb	ppb	ppb	ppb
Avge	59.54	2.327	-1.346	3.175	-2.376
SDev	.74	.581	2.248	.267	.959
%RSD	1.240	24.96	167.0	8.418	40.37
#1	59.02	2.738	-2.936	2.986	-1.698
#2	60.06	1.916	.2436	3.364	-3.055

Method: 802 Sample Name: -09;S Operator: JJ
Run Time: 10/06/99 16:09:38
Comment: J3 DATA FILE;9910062 Dec 72
Mode: CONC Corr. Factor: 1

Elem	As1890	Pb2203	Se1960	Sb2068	Tl1908	Cd2265	Ag3280
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-2.844	7.473	-.5665	-2.318	.6042	-.2018	2.806
SDev	2.010	.929	4.4190	1.916	.9362	.2432	1.212
%RSD	70.67	12.43	780.0	82.68	154.9	120.5	43.21
#1	-4.265	8.130	2.558	-3.672	-.0578	-.0299	1.948
#2	-1.423	6.816	-3.691	-.9626	1.266	-.3738	3.663

Elem	Al3082	Ca3179	Fe2714	Mg2790	Mn2576	V_2924	P1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppb
Avge	.2195	3.500	.5205	.7372	.0088	.0023	9.423
SDev	.1070	.046	.1939	.0391	.0026	.0006	11.98
%RSD	48.73	1.311	37.25	5.304	29.97	27.51	127.2
#1	.2951	3.532	.6576	.7649	.0107	.0018	-.9506
#2	.1439	3.467	.3834	.7096	.0069	.0027	17.90

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Elem	P2	S1	S2	A1	A2
Units	ppb	ppb	ppb	ppb	ppb
Avge	6.499	4.781	-3.236	-1.922	-2.527
SDev	7.375	11.63	12.432	12.426	9.076
%RSD	113.5	243.2	384.1	646.6	359.2
#1	11.71	-3.443	5.554	6.865	-8.945
#2	1.285	13.01	-12.03	-10.71	3.891

Method: 802 Sample Name: -09;S2 Dup Operator: JJ
Run Time: 10/06/99 16:12:41 Dec 72
Comment: J3 DATA FILE;9910062
Mode: CONC Corr. Factor: 1

Elem	As1890	Pb2203	Se1960	Sb2068	Tl1908	Cd2265	Ag3280
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-1.181	.3319	.4280	-1.178	-.2220	.1129	6.223
SDev	.676	1.302	2.174	.928	.1668	.1406	.138
%RSD	57.26	392.2	508.0	78.72	75.14	124.5	2.224
#1	-.7026	1.252	1.965	-.5224	-.3400	.2123	6.125
#2	-1.659	-.5886	-1.109	-1.834	-.1041	.0135	6.321

Elem	Al3082	Ca3179	Fe2714	Mg2790	Mn2576	V_2924	P1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppb
Avge	.3080	3.572	.6423	.7903	.0128	.0046	-.6260
SDev	.1207	.000	.1875	.0375	.0038	.0003	1.1241
%RSD	39.20	.0000	29.19	4.744	29.45	5.989	179.6
#1	.3934	3.572	.7749	.8168	.0155	.0048	-1.421
#2	.2226	3.572	.5097	.7638	.0101	.0044	.1688

Elem	P2	S1	S2	A1	A2
Units	ppb	ppb	ppb	ppb	ppb
Avge	.8101	-.4297	.8562	1.542	-2.549
SDev	2.513	.6623	2.929	3.468	.341
%RSD	310.2	154.1	342.1	224.9	13.37
#1	2.587	.0386	2.927	3.995	-2.790
#2	-.9667	-.8980	-1.215	-.9105	-2.308

Method: 802 Sample Name: -09;DS Spk Operator: JJ
Run Time: 10/06/99 16:15:44 Dec 72
Comment: J3 DATA FILE;9910062
Mode: CONC Corr. Factor: 1

Elem	As1890	Pb2203	Se1960	Sb2068	Tl1908	Cd2265	Ag3280
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	38.21	19.55	11.39	496.9	46.14	46.60	49.88
SDev	.60	.53	.13	6.4	1.02	.47	.41
%RSD	1.579	2.720	1.122	1.294	2.222	1.001	.8172
#1	37.78	19.93	11.30	492.4	45.47	46.27	50.17
#2	38.63	19.17	11.48	501.5	46.86	46.93	49.60

Elem	Al3082	Ca3179	Fe2714	Mg2790	Mn2576	V_2924	P1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppb
Avge	2.153	3.469	1.401	.6702	.5071	.4944	14.17
SDev	.025	.018	.003	.0008	.0047	.0042	2.55
%RSD	1.178	.5143	.2278	.1204	.9321	.8524	17.99
#1	2.135	3.457	1.399	.6697	.5037	.4914	12.37
#2	2.170	3.482	1.403	.6708	.5104	.4974	15.97

Elem	P2	S1	S2	A1	A2
Units	ppb	ppb	ppb	ppb	ppb
Avge	22.24	8.235	12.97	493.7	498.5
SDev	2.07	4.507	2.06	10.6	4.3
%RSD	9.307	54.73	15.87	2.156	.8679
#1	23.70	5.048	14.43	486.2	495.5
#2	20.77	11.42	11.52	501.2	501.6

Method: 802 Sample Name: -09;ISD/5 L, 5X Operator: JJ
Run Time: 10/06/99 16:18:46
Comment: J3 DATA FILE;9910062 Page 72
Mode: CONC Corr. Factor: 1

Elem	As1890	Pb2203	Se1960	Sb2068	Tl1908	Cd2265	Ag3280
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-1.905	1.489	1.999	-1.629	1.900	.1661	3.289
SDev	.134	1.095	.950	1.970	.516	.1653	.872
%RSD	7.019	73.55	47.53	120.9	27.16	99.54	26.51
#1	-1.999	2.264	1.327	-3.023	1.535	.2830	3.906
#2	-1.810	.7147	2.671	-.2364	2.266	.0492	2.673

Elem	Al3082	Ca3179	Fe2714	Mg2790	Mn2576	V_2924	P1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppb
Avge	.0456	.7875	.0953	.1511	.0013	.0021	1.684
SDev	.0022	.0026	.0072	.0036	.0000	.0003	4.931
%RSD	4.835	.3236	7.534	2.404	.0101	14.18	292.8
#1	.0472	.7857	.1004	.1537	.0013	.0023	-1.802
#2	.0441	.7893	.0902	.1485	.0013	.0019	5.171

Elem	P2	S1	S2	A1	A2
Units	ppb	ppb	ppb	ppb	ppb
Avge	1.392	4.788	.6069	.8349	-2.872
SDev	4.104	10.57	3.853	2.817	4.360
%RSD	294.8	220.8	634.8	337.4	151.8
#1	4.294	-2.686	3.331	2.827	-5.955
#2	-1.510	12.26	-2.117	-1.157	.2111

Method: 802 Sample Name: -10;S Operator: JJ
Run Time: 10/06/99 16:21:49 Page 73
Comment: J3 DATA FILE;9910062
Mode: CONC Corr. Factor: 1

Elem	As1890	Pb2203	Se1960	Sb2068	Tl1908	Cd2265	Ag3280
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-2.112	.7609	-.3267	-.0556	.4359	.0333	4.069
SDev	2.011	1.017	.1027	1.0821	2.464	.2010	.438
%RSD	95.23	133.7	31.45	1947.	565.1	604.4	10.77
#1	-.6899	1.480	-.2541	.7096	2.178	-.1089	4.378
#2	-3.534	.0418	-.3994	-.8208	-1.306	.1754	3.759

Elem	Al3082	Ca3179	Fe2714	Mg2790	Mn2576	V_2924	P1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppb
Avge	.0639	3.608	.2237	.7059	.0064	.0025	3.735
SDev	.0028	.005	.0136	.0012	.0000	.0003	8.406
%RSD	4.312	.1413	6.062	.1708	.0026	11.84	225.1
#1	.0659	3.612	.2333	.7068	.0064	.0027	9.680
#2	.0620	3.604	.2141	.7051	.0064	.0023	-2.209

Elem	P2	S1	S2	A1	A2
Units	ppb	ppb	ppb	ppb	ppb
Avge	-.7241	9.599	-5.282	-2.066	.9363
SDev	2.6722	11.96	5.814	7.174	5.204
%RSD	369.1	124.5	110.1	347.2	555.8
#1	-2.614	18.05	-9.394	-7.139	4.616
#2	1.165	1.145	-1.171	3.007	-2.744

Method: 802 Sample Name: -11;S Operator: JJ
Run Time: 10/06/99 16:24:52
Comment: J3 DATA FILE;9910062 Dec 74
Mode: CONC Corr. Factor: 1

Elem	As1890	Pb2203	Se1960	Sb2068	Tl1908	Cd2265	Ag3280
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-3.021	5.939	-2.229	-.3002	-.9076	.0202	3.753
SDev	1.458	.369	1.083	.0820	.2000	.1282	.218
%RSD	48.27	6.212	48.59	27.31	22.03	633.6	5.815
#1	-4.052	5.678	-2.995	-.3582	-1.049	-.0704	3.598
#2	-1.990	6.200	-1.463	-.2422	-.7662	.1109	3.907

Elem	Al3082	Ca3179	Fe2714	Mg2790	Mn2576	V_2924	P1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppb
Avge	.0830	4.531	.2559	.7596	.0108	.0025	2.470
SDev	.0033	.005	.0016	.0020	.0002	.0003	2.854
%RSD	3.984	.1125	.6239	.2661	1.745	11.90	115.6
#1	.0807	4.534	.2547	.7611	.0107	.0023	.4515
#2	.0854	4.527	.2570	.7582	.0110	.0027	4.488

Elem	P2	S1	S2	A1	A2
Units	ppb	ppb	ppb	ppb	ppb
Avge	7.671	-2.749	-1.969	4.807	-2.862
SDev	.872	1.200	1.025	2.295	1.269
%RSD	11.36	43.65	52.03	47.74	44.33

#1	8.288	-3.598	-2.694	6.430	-3.759
#2	7.055	-1.901	-1.245	3.184	-1.965

Method: 802 Sample Name: -12;S Operator: JJ
Run Time: 10/06/99 16:27:56 Dec075
Comment: J3 DATA FILE;9910062
Mode: CONC Corr. Factor: 1

Elem	As1890	Pb2203	Se1960	Sb2068	Tl1908	Cd2265	Ag3280
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-2.191	3.573	-1.814	-.8938	.7730	.1966	2.934
SDev	.261	.710	1.353	.6835	.4717	.0814	.603
%RSD	11.90	19.86	74.57	76.47	61.02	41.42	20.56
#1	-2.376	3.071	-.8577	-1.377	1.107	.1390	3.360
#2	-2.007	4.075	-2.771	-.4105	.4395	.2541	2.508

Elem	Al3082	Ca3179	Fe2714	Mg2790	Mn2576	V_2924	P1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppb
Avge	.0589	3.572	.2198	.6968	.0096	.0017	1.813
SDev	.0044	.005	.0207	.0004	.0000	.0003	2.966
%RSD	7.493	.1427	9.438	.0566	.0028	17.80	163.6
#1	.0620	3.568	.2345	.6971	.0096	.0019	3.910
#2	.0558	3.575	.2051	.6965	.0096	.0015	-.2847

Elem	P2	S1	S2	A1	A2
Units	ppb	ppb	ppb	ppb	ppb
Avge	4.452	-.4646	-2.488	2.443	-2.571
SDev	2.545	5.2931	.614	2.473	.210
%RSD	57.15	1139.	24.67	101.2	8.157
#1	2.653	3.278	-2.923	.6943	-2.423
#2	6.252	-4.207	-2.054	4.191	-2.720

Method: 802 Sample Name: -13;S Operator: JJ
Run Time: 10/06/99 16:33:20 Dec 76
Comment: J3 DATA FILE;9910062
Mode: CONC Corr. Factor: 1

Elem	As1890	Pb2203	Se1960	Sb2068	Tl1908	Cd2265	Ag3280
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-2.927	2.074	.1903	-1.092	.4050	.1891	4.351
SDev	.414	.744	1.533	1.531	1.185	.0336	.490
%RSD	14.14	35.89	805.6	140.1	292.6	17.75	11.27
#1	-3.220	1.547	1.274	-2.174	1.243	.1654	4.698
#2	-2.635	2.600	-.8937	-.0099	-.4328	.2128	4.005

Elem	Al3082	Ca3179	Fe2714	Mg2790	Mn2576	V_2924	P1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppb
Avge	.0632	.0523	.1224	.0419	.0013	.0030	2.788
SDev	.0006	.0026	.0056	.0053	.0000	.0003	3.446
%RSD	.8730	4.877	4.561	12.52	.0025	10.14	123.6
#1	.0636	.0541	.1264	.0457	.0013	.0032	.3517
#2	.0628	.0505	.1185	.0382	.0013	.0028	5.225

Elem	P2	S1	S2	A1	A2
Units	ppb	ppb	ppb	ppb	ppb
Avge	1.717	4.657	-2.040	.2181	-1.758
SDev	.604	4.046	4.318	.4547	2.522
%RSD	35.20	86.88	211.7	208.5	143.4
#1	2.144	1.796	1.014	.5397	-3.541
#2	1.290	7.518	-5.093	-.1034	.0248

Method: 802 Sample Name: -21;S Operator: JJ
Run Time: 10/06/99 16:36:22
Comment: J3 DATA FILE;9910062 Dec 84
Mode: CONC Corr. Factor: 1

Elem	As1890	Pb2203	Se1960	Sb2068	Tl1908	Cd2265	Ag3280
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-1.086	.8305	1.022	9.285	16.35	.7874	41.70
SDev	.728	1.250	.940	.549	.69	.1465	.38
%RSD	67.02	150.4	91.90	5.909	4.197	18.60	.9140
#1	-.5714	-.0530	1.687	8.897	16.84	.8910	41.97
#2	-1.601	1.714	.3580	9.673	15.87	.6838	41.43

Elem	Al3082	Ca3179	Fe2714	Mg2790	Mn2576	V_2924	P1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppb
Avge	33.16	-.0198	.1399	.0219	.1496	-.0008	-1.014
SDev	.36	.0076	.0032	.0053	.0011	.0006	5.211
%RSD	1.086	38.57	2.280	23.94	.7437	74.39	514.2
#1	32.90	-.0144	.1422	.0256	.1488	-.0004	-4.698
#2	33.41	-.0252	.1376	.0182	.1504	-.0013	2.671

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Elem	P2	S1	S2	A1	A2
Units	ppb	ppb	ppb	ppb	ppb

Avge	1.751	4.530	-.7290	11.07	8.385
SDev	.728	1.666	2.2405	4.12	2.879
%RSD	41.60	36.78	307.3	37.21	34.34
#1	2.266	3.352	.8553	13.98	6.349
#2	1.236	5.709	-2.313	8.153	10.42

Method: 802 Sample Name: TICPCCV;CCV Operator: JJ
Run Time: 10/06/99 16:39:25
Comment: J3 DATA FILE;9910062 MW99 09 276
Mode: CONC Corr. Factor: 1

Elem	As1890	Pb2203	Se1960	Sb2068	Tl1908	Cd2265	Ag3280
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	48.85	50.76	54.34	51.12	49.13	24.76	53.18
SDev	.89	.77	3.83	1.60	1.67	.51	.03
%RSD	1.827	1.519	7.047	3.138	3.391	2.076	.0653
#1	49.48	51.30	51.63	52.26	50.31	25.12	53.15
#2	48.22	50.21	Q57.05	49.99	47.95	24.40	53.20

Elem	Al3082	Ca3179	Fe2714	Mg2790	Mn2576	V_2924	P1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppb
Avge	.4885	1.135	.3037	1.134	.1032	.1028	46.73
SDev	.0055	.015	.0295	.011	.0023	.0012	1.57
%RSD	1.129	1.347	9.721	.9993	2.199	1.174	3.357
#1	.4924	1.146	.2828	1.142	.1048	.1036	45.62
#2	.4846	1.125	.3246	1.126	.1016	.1019	47.84

Elem	P2	S1	S2	A1	A2
Units	ppb	ppb	ppb	ppb	ppb
Avge	52.76	49.15	56.94	55.10	49.12
SDev	1.94	5.25	3.12	3.12	.85
%RSD	3.675	10.68	5.483	5.660	1.727
#1	54.14	45.43	54.73	57.30	49.72
#2	51.39	52.86	59.14	52.89	48.52

Method: 802 Sample Name: CCB;CCB Operator: JJ
Run Time: 10/06/99 16:42:28
Comment: J3 DATA FILE;9910062 MR990913B
Mode: CONC Corr. Factor: 1

Elem	As1890	Pb2203	Se1960	Sb2068	Tl1908	Cd2265	Ag3280
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-1.776	.2740	.1005	-1.642	.3092	.1809	2.255
SDev	.420	.5083	.8702	1.202	1.438	.0461	.654
%RSD	23.66	185.5	865.8	73.22	465.3	25.47	29.02
#1	-1.479	.6335	.7158	-.7920	1.326	.1483	2.718
#2	-2.073	-.0854	-.5148	-2.492	-.7080	.2135	1.792

Elem	Al3082	Ca3179	Fe2714	Mg2790	Mn2576	V_2924	P1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppb

Avge	.0374	.0000	.0254	.0148	-.0000	.0013	-1.634
SDev	.0061	.0051	.0088	.0048	.0000	.0003	.648
%RSD	16.20	27e6	34.57	32.63	16.20	23.57	39.63
#1	.0417	.0036	.0316	.0183	-.0000	.0015	-1.176
#2	.0331	-.0036	.0192	.0114	-.0000	.0011	-2.092

Elem	P2	S1	S2	A1	A2
Units	ppb	ppb	ppb	ppb	ppb
Avge	1.227	1.436	-.5660	2.559	-3.752
SDev	.439	1.308	.6517	.321	1.642
%RSD	35.77	91.10	115.1	12.55	43.77
#1	1.537	2.360	-.1052	2.787	-2.591
#2	.9163	.5108	-1.027	2.332	-4.913

Method: 802 Sample Name: PBS;PBS#802 Operator: JJ
Run Time: 10/06/99 16:45:31
Comment: J3 DATA FILE;9910062 100; PBS,
Mode: CONC Corr. Factor: 1

Elem	As1890	Pb2203	Se1960	Sb2068	Tl1908	Cd2265	Ag3280
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-1.325	1.018	.8778	-.3667	.0773	.0209	1.758
SDev	.654	.865	4.464	.6999	.4205	.0140	1.637
%RSD	49.34	85.03	508.6	190.9	544.3	66.87	93.16
#1	-.8628	.4057	4.035	.1282	-.2201	.0110	.5999
#2	-1.787	1.629	-2.279	-.8616	.3746	.0307	2.916

Elem	Al3082	Ca3179	Fe2714	Mg2790	Mn2576	V_2924	P1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppb
Avge	.0483	-.0613	.0350	.0157	.0007	.0011	2.164
SDev	.0061	.0153	.0271	.0077	.0002	.0012	.274
%RSD	12.55	24.96	77.56	48.82	28.35	113.6	12.66
#1	.0441	-.0721	.0158	.0103	.0005	.0002	1.970
#2	.0526	-.0505	.0542	.0211	.0008	.0019	2.357

Elem	P2	S1	S2	A1	A2
Units	ppb	ppb	ppb	ppb	ppb
Avge	.4454	-2.536	2.582	-.0367	-.5435
SDev	1.160	2.030	5.679	1.3806	.3601
%RSD	260.5	80.08	220.0	3761.	66.26
#1	-.3751	-1.100	6.598	.9395	-.2888
#2	1.266 -	-3.971	-1.434	-1.013	-.7981

Method: 802 Sample Name: LCSS;LCSS#802 Operator: JJ
Run Time: 10/06/99 16:48:33
Comment: J3 DATA FILE;9910062 100; LCSS,
Mode: CONC Corr. Factor: 1

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Elem	As1890	Pb2203	Se1960	Sb2068	Tl1908	Cd2265	Ag3280
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb

Avge	477.4	617.6	482.8	129.5	237.1	458.5	463.5
SDev	3.9	3.4	5.8	.9	3.2	4.4	3.3
%RSD	.8068	.5424	1.192	.7123	1.349	.9638	.7179
#1	474.6	615.3	478.7	130.1	234.9	455.3	461.2
#2	480.1	620.0	486.9	128.8	239.4	461.6	465.9

Elem	Al3082	Ca3179	Fe2714	Mg2790	Mn2576	V_2924	P1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppb
Avge	22.98	6.758	43.26	12.06	.7791	.2847	614.4
SDev	.21	.046	.32	.09	.0059	.0018	.5
%RSD	.9334	.6788	.7414	.7864	.7508	.6192	.0793
#1	22.83	6.726	43.03	11.99	.7750	.2835	614.1
#2	23.13	6.791	43.49	12.12	.7833	.2860	614.8

Elem	P2	S1	S2	A1	A2
Units	ppb	ppb	ppb	ppb	ppb
Avge	619.2	469.7	489.3	133.1	127.6
SDev	4.8	2.3	7.5	.1	1.3
%RSD	.7718	.4882	1.529	.0829	1.040
#1	615.8	468.1	484.0	133.2	128.6
#2	622.6	471.4	494.6	133.1	126.7

Method: 802 Sample Name: 990802-05;S Operator: JJ
Run Time: 10/06/99 16:51:36
Comment: J3 DATA FILE;9910062 Dec. 15
Mode: CONC Corr. Factor: 1

Elem	As1890	Pb2203	Se1960	Sb2068	Tl1908	Cd2265	Ag3280
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	17.92	47.83	.7860	.7426	2.312	-.7132	13.32
SDev	2.39	.75	1.269	1.197	1.701	.3167	1.48
%RSD	13.35	1.558	161.4	161.2	73.57	44.41	11.11
#1	16.22	47.30	-.1113	1.589	3.515	-.4892	14.37
#2	19.61	48.36	1.683	-.1040	1.109	-.9371	12.28

Elem	Al3082	Ca3179	Fe2714	Mg2790	Mn2576	V_2924	P1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppb
Avge	33.38	6.661	47.52	8.957	.6545	.0624	45.93
SDev	.84	.112	1.00	.165	.0147	.0001	1.90
%RSD	2.516	1.684	2.110	1.844	2.246	.2438	4.137
#1	32.78	6.582	46.81	8.840	.6441	.0623	44.59
#2	33.97	6.740	48.23	9.074	.6649	.0625	47.28

Elem	P2	S1	S2	A1	A2
Units	ppb	ppb	ppb	ppb	ppb
Avge	48.78	-4.386	3.368	9.390	-3.587
SDev	.17	4.029	.109	2.714	.440
%RSD	.3458	91.85	3.231	28.90	12.27
#1	48.66	-7.235	3.445	11.31	-3.276
#2	48.90	-1.538	3.291	7.471	-3.898

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Method: 802 Sample Name: -05;S2 Dup Operator: JJ
Run Time: 10/06/99 16:54:39 Dec 65
Comment: J3 DATA FILE;9910062
Mode: CONC Corr. Factor: 1

Elem	As1890	Pb2203	Se1960	Sb2068	Tl1908	Cd2265	Ag3280
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	19.95	40.46	1.632	-1.296	1.008	-1.587	11.35
SDev	1.00	.54	1.423	.603	.085	.089	.78
%RSD	4.992	1.329	87.23	46.55	8.388	5.620	6.900
#1	19.25	40.84	2.638	-1.722	1.068	-1.524	11.90
#2	20.66	40.08	.6253	-.8694	.9483	-1.650	10.79

Elem	Al3082	Ca3179	Fe2714	Mg2790	Mn2576	V_2924	P1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppb
Avge	33.66	5.713	50.78	8.742	.6255	.0623	39.11
SDev	.47	.046	.61	.079	.0073	.0001	1.11
%RSD	1.404	.8030	1.207	.9026	1.174	.1417	2.839
#1	33.32	5.680	50.34	8.686	.6203	.0623	39.89
#2	33.99	5.745	51.21	8.798	.6307	.0622	38.32

Elem	P2	S1	S2	A1	A2
Units	ppb	ppb	ppb	ppb	ppb
Avge	41.13	-.2293	2.561	6.246	-5.073
SDev	.25	6.2160	.969	3.085	.636
%RSD	.6127	2711.	37.85	49.39	12.53
#1	41.31	4.166	1.876	4.065	-4.624
#2	40.96	-4.625	3.246	8.428	-5.523

Method: 802 Sample Name: -05;DS Spk Operator: JJ
Run Time: 10/06/99 16:57:41 Dec 65
Comment: J3 DATA FILE;9910062
Mode: CONC Corr. Factor: 1

Elem	As1890	Pb2203	Se1960	Sb2068	Tl1908	Cd2265	Ag3280
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	75.18	68.45	9.877	259.9	49.01	44.72	64.67
SDev	1.17	.92	.053	.9	2.38	.21	.29
%RSD	1.553	1.345	.5380	.3290	4.863	.4589	.4408
#1	74.36	67.80	9.915	260.5	50.69	44.58	64.87
#2	76.01	69.10	9.840	259.3	47.32	44.87	64.47

Elem	Al3082	Ca3179	Fe2714	Mg2790	Mn2576	V_2924	P1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppb
Avge	39.47	6.109	65.26	9.011	1.286	.5765	69.14
SDev	.10	.005	.07	.014	.002	.0009	1.07
%RSD	.2459	.0834	.1064	.1521	.1760	.1544	1.552
#1	39.40	6.106	65.21	9.002	1.285	.5759	68.38
#2	39.54	6.113	65.31	9.021	1.288	.5771	69.90

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Elem	P2	S1	S2	A1	A2
Units	ppb	ppb	ppb	ppb	ppb
Avge	68.11	6.999	11.31	265.8	257.0
SDev	.84	2.740	1.29	.2	1.4
%RSD	1.240	39.15	11.39	.0679	.5340
#1	67.51	8.937	10.40	265.7	257.9
#2	68.70	5.062	12.23	266.0	256.0

Method: 802 Sample Name: -05;ISD/5 L, 5X Operator: JJ
Run Time: 10/06/99 17:00:44
Comment: J3 DATA FILE;9910062 Dccc08
Mode: CONC Corr. Factor: 1

Elem	As1890	Pb2203	Se1960	Sb2068	Tl1908	Cd2265	Ag3280
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	.5283	10.15	-1.105	.1568	.9061	-.0225	6.985
SDev	2.360	.55	.981	.5638	.0133	.1196	1.393
%RSD	446.8	5.422	88.75	359.6	1.465	530.6	19.95
#1	-1.141	10.54	-1.799	-.2419	.8967	.0620	7.970
#2	2.197	9.763	-.4117	.5555	.9155	-.1071	6.000

Elem	Al3082	Ca3179	Fe2714	Mg2790	Mn2576	V_2924	P1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppb
Avge	6.543	1.438	9.492	1.821	.1301	.0149	6.621
SDev	.126	.015	.168	.023	.0023	.0009	2.669
%RSD	1.921	1.063	1.765	1.238	1.738	6.236	40.31
#1	6.455	1.427	9.374	1.805	.1285	.0155	4.734
#2	6.632	1.449	9.610	1.837	.1317	.0142	8.508

Elem	P2	S1	S2	A1	A2
Units	ppb	ppb	ppb	ppb	ppb
Avge	11.92	-4.799	.7385	7.720	-3.631
SDev	2.16	6.493	1.771	4.763	3.223
%RSD	18.11	135.3	239.8	61.70	88.77
#1	13.44	-9.390	1.990	11.09	-5.910
#2	10.39	-.2077	-.5136	4.352	-1.352

Method: 802 Sample Name: -06;S Operator: JJ
Run Time: 10/06/99 17:05:57
Comment: J3 DATA FILE;9910062 D0069
Mode: CONC Corr. Factor: 1

Elem	As1890	Pb2203	Se1960	Sb2068	Tl1908	Cd2265	Ag3280
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	5.228	28.93	-1.658	-1.351	-.1534	-1.101	6.390
SDev	2.138	.95	2.889	1.574	1.3357	.021	1.190
%RSD	40.89	3.297	174.3	116.4	870.5	1.885	18.62
#1	6.739	29.60	-3.701	-.2387	-1.098	-1.087	7.231
#2	3.716	28.25	.3854	-2.464	.7911	-1.116	5.549

Elem	Al3082	Ca3179	Fe2714	Mg2790	Mn2576	V_2924	P1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppb
Avge	15.53	3.154	29.14	5.588	.3794	.0295	31.65
SDev	.16	.015	.23	.032	.0030	.0003	2.12
%RSD	1.058	.4849	.7885	.5693	.7950	1.130	6.695
#1	15.42	3.143	28.98	5.566	.3772	.0297	30.16
#2	15.65	3.165	29.30	5.611	.3815	.0293	33.15

Elem	P2	S1	S2	A1	A2
Units	ppb	ppb	ppb	ppb	ppb
Avge	27.56	.3532	-2.662	1.857	-2.965
SDev	2.49	6.201	1.236	2.635	1.044
%RSD	9.025	1755.	46.44	141.9	35.20
#1	29.32	-4.031	-3.536	3.720	-2.227
#2	25.81	4.738	-1.788	-.0069	-3.703

Method: 802 Sample Name: -07;S Operator: JJ
Run Time: 10/06/99 17:09:00
Comment: J3 DATA FILE;9910062 D0070
Mode: CONC Corr. Factor: 1

Elem	As1890	Pb2203	Se1960	Sb2068	Tl1908	Cd2265	Ag3280
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	23.97	42.87	-.1837	-.0014	-.8203	-1.193	8.187
SDev	.61	.57	1.6567	.2788	2.8478	.164	.733
%RSD	2.559	1.333	901.8	19380.	347.2	13.76	8.951
#1	23.53	43.28	.9877	.1957	-2.834	-1.309	7.669
#2	24.40	42.47	-1.355	-.1986	1.193	-1.077	8.705

Elem	Al3082	Ca3179	Fe2714	Mg2790	Mn2576	V_2924	P1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppb
Avge	20.65	3.575	32.69	7.110	.6565	.0410	46.54
SDev	.08	.005	.07	.010	.0017	.0006	1.25
%RSD	.4112	.1426	.2245	.1473	.2585	1.501	2.694
#1	20.71	3.579	32.74	7.117	.6577	.0405	47.43
#2	20.59	3.572	32.64	7.103	.6553	.0414	45.65

Elem	P2	S1	S2	A1	A2
Units	ppb	ppb	ppb	ppb	ppb

Avge	41.04	1.738	-1.143	1.495	-.7604
SDev	.23	2.938	1.017	.519	.6772
%RSD	.5628	169.0	88.96	34.73	89.05
#1	41.21	3.816	-.4241	1.128	-.2816
#2	40.88	-.3391	-1.862	1.862	-1.239

Method: 802 Sample Name: TICPCCV;CCV Operator: JJ
Run Time: 10/06/99 17:12:03
Comment: J3 DATA FILE;9910062 MW991027G
Mode: CONC Corr. Factor: 1

Elem	As1890	Pb2203	Se1960	Sb2068	Tl1908	Cd2265	Ag3280
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	49.96	52.14	52.73	51.03	51.07	25.06	54.24
SDev	1.32	1.04	.19	1.08	1.88	.10	.40
%RSD	2.640	1.986	.3598	2.119	3.689	.4153	.7323
#1	49.03	52.87	52.87	50.27	49.74	25.13	54.52
#2	50.89	51.40	52.60	51.80	52.40	24.99	53.96

Elem	Al3082	Ca3179	Fe2714	Mg2790	Mn2576	V_2924	P1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppb
Avge	.4909	1.153	.3133	1.156	.1045	.1047	49.68
SDev	.0033	.000	.0128	.001	.0004	.0003	.95
%RSD	.6740	.0000	4.075	.0694	.3620	.2863	1.921
#1	.4932	1.153	.3223	1.156	.1043	.1049	49.01
#2	.4885	1.153	.3043	1.155	.1048	.1045	50.36

Elem	P2	S1	S2	A1	A2
Units	ppb	ppb	ppb	ppb	ppb
Avge	53.36	51.88	53.16	53.27	49.90
SDev	2.03	2.40	1.48	.34	1.79
%RSD	3.803	4.626	2.789	.6365	3.588
#1	54.79	50.18	54.21	53.51	48.64
#2	51.93	53.57	52.12	53.03	51.17

Method: 802 Sample Name: CCB;CCB Operator: JJ
Run Time: 10/06/99 17:15:05
Comment: J3 DATA FILE;9910062 MR991013B
Mode: CONC Corr. Factor: 1

Elem	As1890	Pb2203	Se1960	Sb2068	Tl1908	Cd2265	Ag3280
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-.6118	-.7391	1.561	-1.950	1.132	-.1624	2.076
SDev	.5688	.4856	1.962	.163	2.268	.0124	.854
%RSD	92.98	65.70	125.7	8.375	200.4	7.626	41.12
#1	-1.014	-1.082	.1739	-1.834	-.4718	-.1711	1.472
#2	-.2096	-.3957	2.948	-2.065	2.736	-.1536	2.679

Elem	Al3082	Ca3179	Fe2714	Mg2790	Mn2576	V_2924	P1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppb

Avge	.0468	-.0036	.0417	.0191	.0004	.0013	4.224
SDev	.0105	.0000	.0160	.0012	.0006	.0003	1.470
%RSD	22.39	.0000	38.23	6.299	142.3	23.87	34.80
#1	.0542	-.0036	.0530	.0200	.0008	.0011	5.263
#2	.0394	-.0036	.0305	.0183	-.0000	.0015	3.184

Elem	P2	S1	S2	A1	A2
Units	ppb	ppb	ppb	ppb	ppb
Avge	-3.217	8.562	-1.934	-5.135	-.3715
SDev	1.462	1.231	2.327	.713	.6005
%RSD	45.45	14.38	120.3	13.88	161.7
#1	-4.250	7.691	-3.579	-5.639	.0532
#2	-2.183	9.432	-.2890	-4.631	-.7961

Method: 802 Sample Name: -08;S Operator: JJ
Run Time: 10/06/99 17:18:08
Comment: J3 DATA FILE;9910062 D0071
Mode: CONC Corr. Factor: 1

Elem	As1890	Pb2203	Se1960	Sb2068	Tl1908	Cd2265	Ag3280
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	19.51	58.29	1.519	-1.179	3.490	-.8900	14.68
SDev	.46	1.94	1.958	.353	3.778	.0795	.70
%RSD	2.369	3.335	128.9	29.92	108.3	8.928	4.758
#1	19.84	56.92	2.903	-.9293	6.162	-.8338	14.19
#2	19.18	59.67	.1341	-1.428	.8182	-.9462	15.18

Elem	Al3082	Ca3179	Fe2714	Mg2790	Mn2576	V_2924	P1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppb
Avge	35.59	3.887	38.51	7.904	.3626	.0598	65.28
SDev	.22	.008	.17	.025	.0015	.0006	2.86
%RSD	.6322	.1967	.4455	.3108	.4134	1.059	4.375
#1	35.74	3.893	38.63	7.921	.3637	.0594	67.30
#2	35.43	3.882	38.39	7.886	.3616	.0603	63.26

Elem	P2	S1	S2	A1	A2
Units	ppb	ppb	ppb	ppb	ppb
Avge	54.80	4.860	-.1492	.0441	-1.801
SDev	4.34	8.013	1.0647	3.181	2.117
%RSD	7.919	164.9	713.8	7220.	117.5
#1	51.73	10.53	-.9020	-2.205	-.3043
#2	57.87	-.8064	.6037	2.293	-3.298

Method: 802 Sample Name: -17;S Operator: JJ
Run Time: 10/06/99 17:21:11
Comment: J3 DATA FILE;9910062 D0080
Mode: CONC Corr. Factor: 1

Elem	As1890	Pb2203	Se1960	Sb2068	Tl1908	Cd2265	Ag3280
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb

Avge	3238.	8209.	1.423	19.45	1.151	-1.961	21.23
SDev	176.	47.	.736	.67	2.471	.314	2.43
%RSD	5.427	.5684	51.70	3.441	214.6	16.01	11.47
#1	3362.	8242.	.9027	19.92	2.899	-2.183	19.51
#2	3114.	8176.	1.943	18.98	-.5958	-1.739	22.95

Elem	Al3082	Ca3179	Fe2714	Mg2790	Mn2576	V_2924	P1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppb
Avge	24.86	171.8	81.60	69.68	4.497	.0197	8072.
SDev	1.44	8.1	3.97	3.26	.225	.0011	86.
%RSD	5.808	4.706	4.865	4.676	5.002	5.394	1.065
#1	25.88	177.5	84.41	71.98	4.656	.0189	8133.
#2	23.84	166.1	78.79	67.38	4.338	.0204	8011.

Elem	P2	S1	S2	A1	A2
Units	ppb	ppb	ppb	ppb	ppb
Avge	8277.	3.852	.2098	26.08	16.13
SDev	27.	4.353	1.070	1.65	.18
%RSD	.3267	113.0	510.3	6.334	1.108
#1	8296.	.7745	.9667	27.25	16.25
#2	8258.	6.930	-.5471	24.92	16.00

Method: 802 Sample Name: PBW;PBW#843 Operator: JJ
Run Time: 10/06/99 17:24:14
Comment: J3 DATA FILE;9910062 100 ppb
Mode: CONC Corr. Factor: 1

Elem	As1890	Pb2203	Se1960	Sb2068	Tl1908	Cd2265	Ag3280
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-1.891	.8372	-.3780	-1.612	-.5453	.0369	2.819
SDev	.988	.3076	3.2942	2.105	.2674	.1388	.735
%RSD	52.25	36.74	871.5	130.6	49.04	376.0	26.08
#1	-2.590	.6197	1.951	-.1239	-.7344	.1350	2.299
#2	-1.193	1.055	-2.707	-3.101	-.3562	-.0612	3.339

Elem	Al3082	Ca3179	Fe2714	Mg2790	Mn2576	V_2924	P1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppb
Avge	.0725	-.0180	.0575	.0325	.0008	.0017	-1.033
SDev	.0050	.0051	.0048	.0040	.0000	.0003	1.374
%RSD	6.843	28.28	8.318	12.41	.0379	17.74	132.9
#1	.0690	-.0216	.0541	.0297	.0008	.0015	-2.004
#2	.0760	-.0144	.0609	.0354	.0008	.0019	-.0620

Elem	P2	S1	S2	A1	A2
Units	ppb	ppb	ppb	ppb	ppb
Avge	1.771	2.284	-1.707	1.593	-3.225
SDev	.225	2.939	3.472	2.054	2.131
%RSD	12.68	128.7	203.4	128.9	66.08
#1	1.930	4.362	.7479	3.046	-1.718
#2	1.612	.2058	-4.162	.1406	-4.732

Method: 802 Sample Name: LCSW;LCSW#843 Operator: JJ
Run Time: 10/06/99 17:27:17
Comment: J3 DATA FILE;9910062 102 LCSW
Mode: CONC Corr. Factor: 1

Elem	As1890	Pb2203	Se1960	Sb2068	Tl1908	Cd2265	Ag3280
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	197.7	186.8	199.7	483.8	185.6	90.08	1215.
SDev	1.6	1.1	3.4	.4	.8	.57	5.
%RSD	.7945	.5671	1.688	.0725	.4093	.6355	.4340
#1	196.6	186.0	197.3	483.5	185.1	89.67	1211.
#2	198.8	187.5	202.1	484.0	186.2	90.48	1219.

Elem	Al3082	Ca3179	Fe2714	Mg2790	Mn2576	V_2924	P1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppb
Avge	10.95	27.47	6.162	27.09	2.485	2.495	185.9
SDev	.03	.06	.005	.06	.007	.011	2.0
%RSD	.3070	.2227	.0773	.2357	.2891	.4223	1.073
#1	10.93	27.43	6.158	27.04	2.480	2.488	187.3
#2	10.98	27.51	6.165	27.13	2.490	2.503	184.5

Elem	P2	S1	S2	A1	A2
Units	ppb	ppb	ppb	ppb	ppb
Avge	187.2	198.9	200.1	484.1	483.6
SDev	2.6	.1	5.0	.2	.7
%RSD	1.380	.0614	2.496	.0515	.1345
#1	185.3	198.8	196.5	484.2	483.2
#2	189.0	199.0	203.6	483.9	484.1

Method: 802 Sample Name: 990843-02;S Operator: JJ
Run Time: 10/06/99 17:30:21
Comment: J3 DATA FILE;9910062 590
Mode: CONC Corr. Factor: 1

Elem	As1890	Pb2203	Se1960	Sb2068	Tl1908	Cd2265	Ag3280
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	65.25	69.16	52.39	17.46	6.882	15.62	14.79
SDev	3.25	.78	.37	1.25	.312	.13	.58
%RSD	4.983	1.130	.7106	7.133	4.536	.8142	3.908
#1	67.55	69.72	52.13	18.35	6.661	15.71	15.20
#2	62.95	68.61	52.65	16.58	7.103	15.53	14.38

Elem	Al3082	Ca3179	Fe2714	Mg2790	Mn2576	V_2924	P1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppb
Avge	.0975	70.14	.3069	.0144	.6016	-.0002	67.82
SDev	.0039	.17	.0223	.0052	.0021	.0006	.24
%RSD	3.960	.2398	7.279	36.34	.3458	242.5	.3608
#1	.1002	70.02	.3227	.0181	.6001	.0002	67.65
#2	.0947	70.26	.2911	.0107	.6031	-.0007	67.99

10.45

Elem	P2	S1	S2	A1	A2
Units	ppb	ppb	ppb	ppb	ppb
Avge	69.84	51.11	53.02	19.94	16.22
SDev	1.29	5.52	2.20	1.95	.89
%RSD	1.853	10.81	4.148	9.791	5.506
#1	70.75	47.21	54.58	21.32	16.85
#2	68.92	55.02	51.47	18.56	15.58

Method: 802 Sample Name: 990802-05;PS Post Spk Operator: JJ
Run Time: 10/06/99 17:33:24
Comment: J3 DATA FILE;9910062 D00068
Mode: CONC Corr. Factor: 1 As 60ppb Sb 120ppb

Elem	As1890	Pb2203	Se1960	Sb2068	Tl1908	Cd2265	Ag3280
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	59.10	47.26	1.507	118.8	.7632	-1.196	12.68
SDev	.98	.46	2.936	.5	1.281	.152	.47
%RSD	1.663	.9688	194.9	.3968	167.9	12.69	3.741
#1	58.41	46.94	3.583	119.1	-.1427	-1.303	12.35
#2	59.80	47.58	-.5697	118.4	1.669	-1.089	13.02

Elem	Al3082	Ca3179	Fe2714	Mg2790	Mn2576	V_2924	P1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppb
Avge	33.27	6.641	47.04	8.889	.6499	.0614	49.11
SDev	.04	.008	.06	.020	.0006	.0000	1.88
%RSD	.1127	.1151	.1306	.2270	.0877	.0047	3.826
#1	33.30	6.646	46.99	8.875	.6495	.0614	50.44
#2	33.25	6.636	47.08	8.903	.6503	.0614	47.78

Elem	P2	S1	S2	A1	A2
Units	ppb	ppb	ppb	ppb	ppb
Avge	46.33	.4144	2.052	124.4	115.9
SDev	1.62	5.383	1.715	.6	1.0
%RSD	3.506	1299.	83.58	.4423	.8462
#1	45.19	4.220	3.264	124.0	116.6
#2	47.48	-3.392	.8392	124.8	115.2

Method: 802 Sample Name: T2CRDL;CRI Operator: JJ
Run Time: 10/06/99 17:36:27
Comment: J3 DATA FILE;9910062 MW9909174
Mode: CONC Corr. Factor: 1

Elem	As1890	Pb2203	Se1960	Sb2068	Tl1908	Cd2265	Ag3280
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	18.92	5.787	11.89	116.4	19.72	9.746	23.51
SDev	.16	1.718	.63	1.7	.54	.235	1.67
%RSD	.8630	29.69	5.287	1.477	2.745	2.411	7.083
#1	19.03	4.572	12.33	115.2	19.33	9.580	22.33
#2	18.80	7.001	11.44	117.7	20.10	9.913	24.68

Elem	Al3082	Ca3179	Fe2714	Mg2790	Mn2576	V_2924	P1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppb
Avge	.0628	-.0108	.1015	.0397	.0310	.1028	8.431
SDev	.0099	.0255	.0303	.0101	.0008	.0018	1.289
%RSD	15.81	235.7	29.86	25.43	2.437	1.754	15.29
#1	.0558	-.0288	.0801	.0325	.0305	.1016	9.343
#2	.0698	.0072	.1230	.0468	.0316	.1041	7.519

Elem	P2	S1	S2	A1	A2
Units	ppb	ppb	ppb	ppb	ppb
Avge	4.466	17.05	9.308	114.8	117.2
SDev	3.219	2.43	.271	5.7	.3
%RSD	72.08	14.26	2.915	4.957	.2241
#1	2.190	18.77	9.116	110.8	117.4
#2	6.743	15.33	9.500	118.9	117.0

Method: 802 Sample Name: ICSA;ICSA Operator: JJ
Run Time: 10/06/99 17:39:30
Comment: J3 DATA FILE;9910062 MW990913B
Mode: CONC Corr. Factor: 1

Elem	As1890	Pb2203	Se1960	Sb2068	Tl1908	Cd2265	Ag3280
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-1.802	-1.354	4.651	-.5239	7.417	2.086	7.425
SDev	1.442	2.213	3.399	3.6130	2.269	1.145	.908
%RSD	80.05	163.5	73.08	689.6	30.59	54.87	12.23
#1	-2.822	.2112	7.054	-3.079	5.813	2.896	6.783
#2	-.7819	-2.919	2.247	2.031	9.021	1.277	8.067

Elem	Al3082	Ca3179	Fe2714	Mg2790	Mn2576	V_2924	P1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppb
Avge	486.8	492.1	194.1	491.9	-.0149	-.0377	-.4258
SDev	9.1	7.1	2.9	6.9	.0004	.0015	7.4734
%RSD	1.859	1.438	1.489	1.407	2.444	3.967	1755.
#1	493.2	497.1	196.1	496.8	-.0151	-.0388	-5.710
#2	480.4	487.1	192.1	487.0	-.0146	-.0366	4.859

Elem	P2	S1	S2	A1	A2
Units	ppb	ppb	ppb	ppb	ppb
Avge	-1.817	-.6780	7.311	8.139	-4.861
SDev	7.049	27.070	18.61	27.13	18.960
%RSD	387.9	3993.	254.6	333.3	390.1
#1	3.167	-19.82	20.47	27.32	-18.27
#2	-6.802	18.46	-5.849	-11.04	8.546

Method: 802 Sample Name: ICSAB4;ICSAB Operator: JJ
Run Time: 10/06/99 17:42:33
Comment: J3 DATA FILE;9910062 MW990913C

Mode: CONC Corr. Factor: 1

Elem	As1890	Pb2203	Se1960	Sb2068	Tl1908	Cd2265	Ag3280
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	99.18	41.65	52.65	575.8	89.29	44.12	212.6
SDev	1.58	.83	.39	6.2	1.66	.06	1.0
%RSD	1.598	1.993	.7329	1.082	1.858	.1383	.4817
#1	100.3	41.06	52.38	571.4	88.12	44.08	211.8
#2	98.05	42.24	52.92	580.2	90.46	44.17	213.3

Elem	Al3082	Ca3179	Fe2714	Mg2790	Mn2576	V_2924	P1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppb
Avge	492.4	499.4	196.8	498.0	.4589	.4442	45.39
SDev	4.4	3.1	1.2	2.9	.0035	.0020	4.11
%RSD	.8971	.6125	.6282	.5822	.7656	.4477	9.064
#1	489.3	497.2	196.0	495.9	.4564	.4428	48.30
#2	495.5	501.5	197.7	500.0	.4613	.4456	42.49

Elem	P2	S1	S2	A1	A2
Units	ppb	ppb	ppb	ppb	ppb
Avge	39.78	45.97	55.99	585.4	571.0
SDev	3.30	1.38	1.27	11.4	3.7
%RSD	8.293	3.006	2.265	1.945	.6403
#1	37.45	46.94	55.09	577.4	568.4
#2	42.11	44.99	56.89	593.5	573.5

Method: 802 Sample Name: TICPCCV;CCV Operator: JJ
Run Time: 10/06/99 17:45:35
Comment: J3 DATA FILE;9910062 mw99:9276
Mode: CONC Corr. Factor: 1

Elem	As1890	Pb2203	Se1960	Sb2068	Tl1908	Cd2265	Ag3280
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	51.12	51.09	52.99	51.27	49.38	24.74	Q55.01
SDev	2.10	.01	.45	.61	.49	.03	.22
%RSD	4.101	.0242	.8431	1.194	.9887	.1227	.3954
#1	49.64	51.08	53.30	51.71	49.04	24.72	Q55.16
#2	52.60	51.10	52.67	50.84	49.73	24.76	54.85

Elem	Al3082	Ca3179	Fe2714	Mg2790	Mn2576	V_2924	P1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppb
Avge	.5529	1.216	.3533	1.211	.1049	.1051	52.27
SDev	.0292	.023	.0104	.028	.0002	.0003	1.70
%RSD	5.286	1.886	2.933	2.336	.1819	.2893	3.259
#1	.5735	1.233	.3607	1.231	.1048	.1049	51.06
#2	.5322	1.200	.3460	1.191	.1051	.1053	53.47

Elem	P2	S1	S2	A1	A2
Units	ppb	ppb	ppb	ppb	ppb
Avge	50.50	56.80	51.08	50.66	51.57
SDev	.83	3.52	2.43	1.74	.05
%RSD	1.647	6.204	4.755	3.440	.0930

#1	51.09	54.31	52.80	51.89	51.60
#2	49.91	59.30	49.37	49.43	51.54

Method: 802 Sample Name: CCB;CCB Operator: JJ
Run Time: 10/06/99 18:45:15 MR990713B
Comment: J3 DATA FILE;9910062
Mode: CONC Corr. Factor: 1

Elem	As1890	Pb2203	Se1960	Sb2068	Tl1908	Cd2265	Ag3280
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-2.511	-.1332	-.2446	-.8769	-1.081	-.0513	3.858
SDev	.533	.8778	.7697	.5157	2.408	.0405	.138
%RSD	21.24	659.2	314.6	58.81	222.7	78.96	3.565
#1	-2.134	.4875	-.7889	-.5122	-2.784	-.0799	3.761
#2	-2.889	-.7539	.2996	-1.242	.6218	-.0226	3.955

Elem	Al3082	Ca3179	Fe2714	Mg2790	Mn2576	V_2924	P1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppb
Avge	.0550	.0054	.0581	.0260	.0003	.0025	.8535
SDev	.0011	.0026	.0072	.0004	.0000	.0003	1.114
%RSD	2.006	47.14	12.36	1.543	.0255	11.80	130.6
#1	.0558	.0036	.0530	.0257	.0003	.0023	.0655
#2	.0542	.0072	.0632	.0263	.0003	.0028	1.641

Elem	P2	S1	S2	A1	A2
Units	ppb	ppb	ppb	ppb	ppb
Avge	-.6258	1.033	-.8826	.3012	-1.477
SDev	1.8724	.031	1.1693	.9935	.277
%RSD	299.2	2.959	132.5	329.9	18.76
#1	.6982	1.055	-1.709	1.004	-1.281
#2	-1.950	1.012	-.0558	-.4013	-1.673

Tg 9/15/11

DG 9/14/11

Folder: HG0915A
22:29:12 15 Sep 1999 Protocol: CLP

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Standard: 1 Rep: 1 Seq: 0 22:29:12 15 Sep 1999 HG

Hg .0000 ppb -338
Ave. Int. = -338 S. D. = 0

*** Standard: 2 Rep: 1 Seq: 1 22:31:34 15 Sep 1999 HG

Hg .0800 ppb 26
Ave. Int. = 26 S. D. = 0

*** Standard: 3 Rep: 1 Seq: 2 22:33:56 15 Sep 1999 HG

Hg .4000 ppb 1889
Ave. Int. = 1889 S. D. = 0

*** Standard: 4 Rep: 1 Seq: 3 22:36:18 15 Sep 1999 HG

Hg .8000 ppb 4196
Ave. Int. = 4196 S. D. = 0

*** Standard: 5 Rep: 1 Seq: 4 22:38:40 15 Sep 1999 HG

Hg 4.000 ppb 22520
Ave. Int. = 22520 S. D. = 0

*** Standard: 6 Rep: 1 Seq: 5 22:41:07 15 Sep 1999 HG

Hg 5.000 ppb 45148
Ave. Int. = 45148 S. D. = 0

STANDARDS/CRA/SPIKES: MW910915A

ICV/CCV: MW910820A

CASE: # 802 (cg)

Line Conc. Units SD/RSD 1 2 3 4 5

*** Check Standard: 2 Ck2HG1CV Seq: 6 22:43:45 15 Sep 1999 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		102.1	2.041	2.000	ppb	.0000

*** Check Standard: 1 Ck~~1CCB~~ ICB Seq: 7 22:46:06 15 Sep 1999 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		.0248	.2000	ppb	.0000

*** Check Standard: 5 Ck5HGCCV Seq: 8 22:48:26 15 Sep 1999 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		103.1	4.124	4.000	ppb	.0000

*** Check Standard: 1 Ck1CCB Seq: 9 22:50:52 15 Sep 1999 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		.0122	.2000	ppb	.0000

*** Check Standard: 3 Ck3CRA Seq: 10 22:53:12 15 Sep 1999 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg	H	134.9	.2158	.1600	ppb	.0000

*** Sample ID: 0915 PBW1 Seq: 11 22:55:30 15 Sep 1999 HG

#738.755.790.758

Hg .0378 ppb .0000 .0378 0915 PBW1 (1.27x)

*** Sample ID: TCLP CRA.9 Seq: 12 22:57:47 15 Sep 1999 HG

#738

Hg .7938 ppb .0000 .7938 TCLP CRA(0.7) (1.27x)

*** Sample ID: 990735-08 Seq: 13 23:00:04 15 Sep 1999 HG

TCLP

Hg .0434 ppb .0000 .0434 TANK2 (COMP) (1.26x)

*** Sample ID: -09:S Seq: 14 23:02:22 15 Sep 1999 HG

TCLP

Hg .0775 ppb .0000 .0775 TANK1 (1.27x)

*** Sample ID: 990755-01 Seq: 15 23:04:39 15 Sep 1999 HG

Hg .1191 ppb .0000 .1191 PE2303712 (1.26x)

*** Sample ID: -02:S Seq: 16 23:06:57 15 Sep 1999 HG

Hg .0718 ppb .0000 .0719 PE 2303812 (1.27x)

*** Sample ID: -02:DS Seq: 17 23:09:14 15 Sep 1999 HG

105% Hg .8330 ppb .0000 .8330 PE2303812 SPIKE (1.26x)

9/16/99

Line	Conc.	Units	SD/RSD	1	2	3	4	5
*** Sample ID: -02:DSD				Seq: 18		23:11:31 15 Sep 1999 HG		
Hg	.8581	ppb	.0000	.8581		PE2303812 SPIKE DUP. (1.28x)		
*** Sample ID: -02:PS				Seq: 19		23:13:49 15 Sep 1999 HG		
Hg	1.091	ppb	.0000	1.091		PE2303812 POST SPIKE		

*** Check Standard: 5 CK5HGCCV Seq: 20 23:16:08 15 Sep 1999 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		109.2	4.366	4.000	ppb	.0000

*** Check Standard: 1 CK1CCB Seq: 21 23:18:38 15 Sep 1999 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		.0246	.2000	ppb	.0000

*** Sample ID: -03:S				Seq: 22		23:20:56 15 Sep 1999 HG		
Hg	.0362	ppb	.0000	.0362		PE2304014 (1.26x)		
*** Sample ID: -05:S				Seq: 23		23:23:13 15 Sep 1999 HG		
Hg	.0466	ppb	.0000	.0466		PE2331807 (1.26x)		
*** Sample ID: 990790-07				Seq: 24		23:25:30 15 Sep 1999 HG		
Hg	.0560	ppb	.0000	.0560		LOCATION #1-090277 (1.27x)		
*** Sample ID: -08:S				Seq: 25		23:27:45 15 Sep 1999 HG		
Hg	.0487	ppb	.0000	.0487		LOCATION #3-090277 (1.27x)		
*** Sample ID: -07:S				Seq: 26		23:30:00 15 Sep 1999 HG		
Hg	.0696	ppb	DISS .0000	.0696		LOCATION #1-090277 (1.27x)		
*** Sample ID: -08:S				Seq: 27		23:32:15 15 Sep 1999 HG		
Hg	.0615	ppb	DISS .0000	.0615		LOCATION #3-090277 (1.28x)		
*** Sample ID: 990758-12				Seq: 28		23:34:30 15 Sep 1999 HG		
Hg	.0452	ppb	.0000	.0452		D0012 (1.28x)		
*** Sample ID: 0915 PBW2				Seq: 29		23:36:45 15 Sep 1999 HG		
Hg	.0639	ppb	#802 .0000	.0639		0915 PBW2 (1.27x)		

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Sample ID: 990802-01 Seq: 30 23:39:00 15 Sep 1999 HG

Hg .0606 ppb .0000 .0606 D0064 (1.26x)

*** Check Standard: 5 Ck5HGCCV Seq: 31 23:41:18 15 Sep 1999 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		112.9	4.516	4.000	ppb	.0000

*** Check Standard: 1 Ck1CCB Seq: 32 23:43:49 15 Sep 1999 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		.0157	.2000	ppb	.0000

*** Sample ID: -01:S2 Seq: 33 23:46:06 15 Sep 1999 HG

Hg .0682 ppb .0000 .0682 D0064 Dup. (1.26x)

*** Sample ID: -01:DS Seq: 34 23:48:21 15 Sep 1999 HG

116% Hg .9100 ppb .0000 .9100 D0064 SPIKE (1.28x)

*** Sample ID: -02:S Seq: 35 23:50:37 15 Sep 1999 HG

Hg .0378 ppb .0000 .0378 D0065 (1.27x)

*** Sample ID: -03:S Seq: 36 23:52:52 15 Sep 1999 HG

Hg .0610 ppb .0000 .0610 D0066 (1.26x)

*** Sample ID: -04:S Seq: 37 23:55:08 15 Sep 1999 HG

Hg .0669 ppb .0000 .0669 D0067 (1.27x)

*** Sample ID: -09:S Seq: 38 23:57:22 15 Sep 1999 HG

Hg .0752 ppb .0000 .0752 D0072 (1.27x)

*** Sample ID: -09:S2 Seq: 39 23:59:36 15 Sep 1999 HG

Hg .0648 ppb .0000 .0648 D0072 Dup. (1.27x)

*** Sample ID: -09:DS Seq: 40 00:01:50 16 Sep 1999 HG

121% Hg .9362 ppb .0000 .9362 D0072 SPIKE (1.27x)

*** Sample ID: -10:S Seq: 41 00:04:04 16 Sep 1999 HG

Hg .0611 ppb .0000 .0611 D0073 (1.28x)

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Check Standard: 5 Ck5HGCCV Seq: 42 00:06:20 16 Sep 1999 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		113.7	4.547	4.000	ppb	.0000

*** Check Standard: 1 Ck1CCB Seq: 43 00:08:47 16 Sep 1999 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		.0157	.2000	ppb	.0000

*** Sample ID: -11:S Seq: 44 00:11:04 16 Sep 1999 HG

Hg .0797 ppb .0000 .0798 D0074 (1.27x)

*** Sample ID: -12:S Seq: 45 00:13:18 16 Sep 1999 HG

Hg .0436 ppb .0000 .0436 D0075 (1.28x)

*** Sample ID: -13:S Seq: 46 00:15:32 16 Sep 1999 HG

Hg .0796 ppb .0000 .0796 D0076 (1.28x)

*** Check Standard: 5 Ck5HGCCV Seq: 47 00:17:48 16 Sep 1999 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		115.6	4.626	4.000	ppb	.0000

*** Check Standard: 1 Ck1CCB Seq: 48 00:20:19 16 Sep 1999 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		.0208	.2000	ppb	.0000

Ty 9/22/99 DB 9/23/99

Folder: HG0922B Page 1
23:40:02 22 Sep 1999 Protocol: CLP

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Standard: 1 Rep: 1 Seq: 0 23:40:02 22 Sep 1999 HG

Hg .0000 ppb -109
Ave. Int. = -109 S. D. = 0

*** Standard: 2 Rep: 1 Seq: 1 23:42:24 22 Sep 1999 HG

Hg .2000 ppb 1578
Ave. Int. = 1578 S. D. = 0

*** Standard: 3 Rep: 1 Seq: 2 23:44:46 22 Sep 1999 HG

Hg .5000 ppb 4099
Ave. Int. = 4099 S. D. = 0

*** Standard: 4 Rep: 1 Seq: 3 23:47:08 22 Sep 1999 HG

Hg 1.000 ppb 8676
Ave. Int. = 8676 S. D. = 0

*** Standard: 5 Rep: 1 Seq: 4 23:49:31 22 Sep 1999 HG

Hg 5.000 ppb 41492
Ave. Int. = 41492 S. D. = 0

*** Standard: 6 Rep: 1 Seq: 5 23:52:09 22 Sep 1999 HG

Hg 10.00 ppb 89521
Ave. Int. = 89521 S. D. = 0

STANDARDS/CRA/SPIKES: MW990915A

ICS/CCV: MW990820A

Calc: * 802 (SIL)

Probeset: CLP

Rev: 2.04 Time: [illegible] [illegible] Nov 1999

Folder: [illegible] Seq: 0 Print: On

User: [illegible] Batch: [illegible] Cup: 1 13 Gas: 0.30 LPM

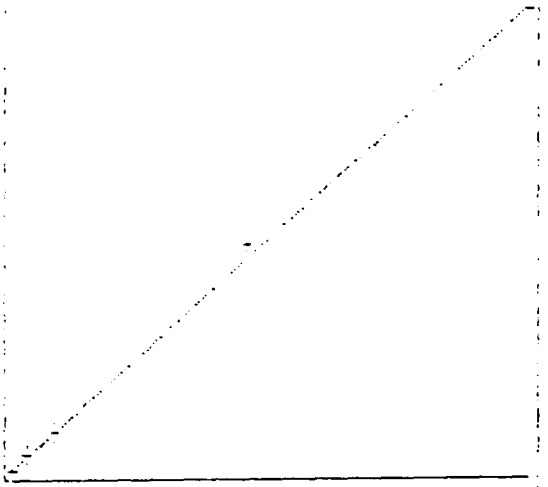
State: Idle Mode CLPHIGH TC: [illegible] Valve: Off Autosampler: On

CALIBRATION: Line Calibration

Line: 01	Conc.	Calc.	Dev.	Accepted Linear
01	[illegible]	[illegible]	[illegible]	Quadratic
[illegible]	[illegible]	[illegible]	[illegible]	Multinear
[illegible]	[illegible]	[illegible]	[illegible]	
03	[illegible]	[illegible]	[illegible]	
04	1.000	1.000	[illegible]	Accept
05	5.000	4.705	[illegible]	
06	[illegible]	[illegible]	[illegible]	Stored

R	[illegible]	r	[illegible]
B	[illegible]	C	[illegible]

	Mean	[illegible]	
01	-109	0	-109
[illegible]	[illegible]	0	[illegible]
03	[illegible]	0	[illegible]
04	[illegible]	0	[illegible]
05	41492	0	41492
06	63521	0	63521



Relative Abundance

New calibration coefficients stored

Line Conc. Units SD/RSD 1 2 3 4 5

*** Check Standard: 2 Ck2HGICV Seq: 6 23:54:51 22 Sep 1999 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		87.37	2.184	2.500	ppb	.0000

*** Check Standard: 1 Ck~~ICCB~~ ICB 1/23/11 Seq: 7 23:57:17 22 Sep 1999 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		.0147	.2000	ppb	.0000

*** Check Standard: 5 Ck5HGCCV Seq: 8 23:59:37 22 Sep 1999 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		88.52	4.426	5.000	ppb	.0000

*** Check Standard: 1 Ck1CCB Seq: 9 00:02:09 23 Sep 1999 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		.0090	.2000	ppb	.0000

*** Check Standard: 3 Ck3CRA Seq: 10 00:04:29 23 Sep 1999 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg	H	131.1	.2622	.2000	ppb	.0000

*** Sample ID: 0922 PBS1 Seq: 11 00:06:47 23 Sep 1999 HG

#758,802

Hg -.0446 ppb .0000 -.0446 0922 PBS1

*** Sample ID: 0922 LCSS1 Seq: 12 00:09:03 23 Sep 1999 HG

1569

#758,802

Hg 4.591 ppb .0000 4.591 0922 LCSS1 0.20g

*** Sample ID: 990758-01 Seq: 13 00:11:30 23 Sep 1999 HG

Hg .0948 ppb .0000 .0948 D00001 0.23g

*** Sample ID: -02;S Seq: 14 00:13:47 23 Sep 1999 HG

Hg .1556 ppb .0000 .1556 D00002 0.20g

*** Sample ID: -03;S Seq: 15 00:16:04 23 Sep 1999 HG

Hg .1675 ppb .0000 .1675 D00003 0.20g

*** Sample ID: -04;S Seq: 16 00:18:21 23 Sep 1999 HG

Hg -.1459 ppb .0000 -.1459 D00004 0.22g

*** Sample ID: -05;S Seq: 17 00:20:39 23 Sep 1999 HG

Hg .1338 ppb .0000 .1338 D00005 0.22g

9/23/11

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Sample ID: -06;S Seq: 18 00:22:56 23 Sep 1999 HG

Hg .9650 ppb .0000 .9650 D00006 0.25g

*** Sample ID: -07;S Seq: 19 00:25:14 23 Sep 1999 HG

Hg .8185 ppb .0000 .8185 D00007 0.21g

*** Check Standard: 5 Ck5HGCCV Seq: 20 00:27:33 23 Sep 1999 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		88.30	4.415	5.000	ppb	.0000

*** Check Standard: 1 Ck1CCB Seq: 21 00:30:04 23 Sep 1999 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		.0026	.2000	ppb	.0000

*** Sample ID: -08;S Seq: 22 00:32:22 23 Sep 1999 HG

Hg .2068 ppb .0000 .2068 D00008 0.20g

*** Sample ID: -08;S2 Seq: 23 00:34:39 23 Sep 1999 HG

Hg .2171 ppb .0000 .2171 D00008 DUP. 0.20g

*** Sample ID: -08;DS Seq: 24 00:36:55 23 Sep 1999 HG

Hg 1.202 ppb .0000 1.202 D00008 SPIKE 0.20g

*** Sample ID: -09;S Seq: 25 00:39:11 23 Sep 1999 HG

Hg .0602 ppb .0000 .0602 D00009 0.22g

*** Sample ID: -10;S Seq: 26 00:41:26 23 Sep 1999 HG

Hg .1109 ppb .0000 .1110 D00010 0.21g

*** Sample ID: -11;S Seq: 27 00:43:41 23 Sep 1999 HG

Hg .2217 ppb .0000 .2217 D00011 0.21g

*** Sample ID: 990802-05 Seq: 28 00:45:57 23 Sep 1999 HG

Hg .0927 ppb .0000 .0927 D00068 0.22g

*** Sample ID: -05;S2 Seq: 29 00:48:12 23 Sep 1999 HG

Hg .0881 ppb .0000 .0881 D00068 DUP. 0.22g

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Sample ID: -05;DS Seq: 30 00:50:27 23 Sep 1999 HG

Hg .9965 ppb .0000 .9965 D00068 SPIKE 0.22g

*** Check Standard: 5 Ck5HGCCV Seq: 31 00:52:46 23 Sep 1999 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		88.57	4.429	5.000	ppb	.0000

*** Check Standard: 1 Ck1CCB Seq: 32 00:55:18 23 Sep 1999 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		.0051	.2000	ppb	.0000

*** Sample ID: -06;S Seq: 33 00:57:35 23 Sep 1999 HG

Hg .0605 ppb .0000 .0605 D00067 0.23g

*** Sample ID: -07;S Seq: 34 00:59:50 23 Sep 1999 HG

Hg .0869 ppb .0000 .0869 D00070 0.23g

*** Sample ID: -08;S Seq: 35 01:02:05 23 Sep 1999 HG

Hg .1003 ppb .0000 .1003 D00071 0.22g

*** Check Standard: 5 Ck5HGCCV Seq: 36 01:04:23 23 Sep 1999 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		88.74	4.437	5.000	ppb	.0000

*** Check Standard: 1 Ck1CCB Seq: 37 01:06:56 23 Sep 1999 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		.0067	.2000	ppb	.0000

JDM 9/16/99

Review: [illegible] 9/16/99

Total Cyanide Analysis for Project #'s 990799 and 990802.

OPERATOR:	Jeff
ACQ. TIME:	Sep 16, 1999 11:30:47
DATA FILENAME:	G:\ALAN\OMNION\FIA_DATA\16SEP99A.FDT
METHOD FILENAME:	
TRAY FILENAME:	G:\ALAN\OMNION\TRAYS\16SEP99A.tra

Method - Ch. 1 (Total Cyanide)

METHOD DESCRIPTION:

Created:	Oct 8, 1997 14:01:34
Modified:	Sep 16, 1999 11:30:45

Total Cyanide Analysis Following Distillation using EPA Method 335.2 CLP-M 4.0 and SW846 Method 9010A. 2/26/97.

ANALYTE DATA:

Analyte Name:	Total Cyanide
Concentration Units:	ug/L
Chemistry:	Direct
Inject to Peak Start (s):	42.0
Peak Base Width (s):	19.500
% Width Tolerance:	100.000
Threshold:	3000.000
Autodilution Trigger:	On
QuikChem Method:	10-204-00-1-A

802

CALIBRATION DATA:

Levels:

1 : 400.000 2 : 300.000 3 : 200.000 4 : 100.000
5 : 40.000 6 : 10.000 7 : 0.000

Calibration Rep Handling:	Replace
Calibration Fit Type:	1st Order Poly
Force Though Zero:	No
Weighting Method:	None
Concentration Scaling:	None

SAMPLER TIMING:

Method Cycle Period:	45.0
Min. Probe In Wash Period:	14.0
Probe In Sample Period:	20.0

--- Prep Sequence Not Enabled ---

VALVE TIMING:

Method Cycle Period:	45.0
Sample Reaches 1st Valve:	29.6
Valve:	On
Load Time:	0.0
Load Period:	15.0
Inject Period:	30.0

Sample Information/Results: Ch. 1
Total Cyanide (Cup Range: 1 - 22)

Unknowns:

Cup: 6, Sample ID: 990799-01 102-SS-02 5.19g/250ml, Sample Type: Unknown
ManDilFact: 0.5, AutDilFact: 1.0, Weight: 1.00000 g
Rep 1/1, Result: -0.869 ug/L

Cup: 7, Sample ID: 990799-02 102-SS-01 5.20g/250ml, Sample Type: Unknown
ManDilFact: 0.5, AutDilFact: 1.0, Weight: 1.00000 g
Rep 1/1, Result: -1.213 ug/L

Cup: 8, Sample ID: 990799-03 102-SU-01 5.27g/250ml, Sample Type: Unknown
ManDilFact: 0.5, AutDilFact: 1.0, Weight: 1.00000 g
Rep 1/1, Result: -1.300 ug/L

Cup: 9, Sample ID: 990799-04 100-SS-02 5.12g/250ml, Sample Type: Unknown
ManDilFact: 0.5, AutDilFact: 1.0, Weight: 1.00000 g
Rep 1/1, Result: -1.300 ug/L

Cup: 10, Sample ID: 990799-05 100-SS-01 5.17g/250ml, Sample Type: Unknown
ManDilFact: 0.5, AutDilFact: 1.0, Weight: 1.00000 g
Rep 1/1, Result: -1.300 ug/L

Cup: 11, Sample ID: 990799-05spk 100-SS-01 5.24g/250ml +50 ug/L, Sample Type: Unknown
ManDilFact: 0.5, AutDilFact: 1.0, Weight: 1.00000 g
Rep 1/1, Result: 98.159 ug/L

Cup: 12, Sample ID: 990799-05dup 100-SS-01 5.18g/250ml, Sample Type: Unknown
ManDilFact: 0.5, AutDilFact: 1.0, Weight: 1.00000 g
Rep 1/1, Result: -1.300 ug/L

Cup: 13, Sample ID: 990799-06 100-22-DD 5.18g/250ml, Sample Type: Unknown
ManDilFact: 0.5, AutDilFact: 1.0, Weight: 1.00000 g
Rep 1/1, Result: -1.300 ug/L

Cup: 17, Sample ID: 990799-07 100-SS-03 5.31g/250ml, Sample Type: Unknown
ManDilFact: 0.5, AutDilFact: 1.0, Weight: 1.00000 g
Rep 1/1, Result: -0.903 ug/L

Cup: 18, Sample ID: 990799-08 100-SS-04 5.19g/250ml, Sample Type: Unknown
ManDilFact: 0.5, AutDilFact: 1.0, Weight: 1.00000 g
Rep 1/1, Result: -1.300 ug/L

Cup: 19, Sample ID: 990799-12 102-SS-05 5.20g/250ml, Sample Type: Unknown
ManDilFact: 0.5, AutDilFact: 1.0, Weight: 1.00000 g
Rep 1/1, Result: -1.300 ug/L

Cup: 20, Sample ID: 990799-13 102-SS-03 5.36g/250ml, Sample Type: Unknown
ManDilFact: 0.5, AutDilFact: 1.0, Weight: 1.00000 g
Rep 1/1, Result: -1.300 ug/L

Cup: 21, Sample ID: 990799-14 102-SS-04 5.26g/250ml, Sample Type: Unknown
ManDilFact: 0.5, AutDilFact: 1.0, Weight: 1.00000 g
Rep 1/1, Result: -1.300 ug/L

9/16/99 [illegible]

Cup: 22, Sample ID: 990802-05 D00068 5.18g/250ml, Sample Type: Unknown
ManDilFact: 0.5, AutDilFact: 1.0, Weight: 1.00000 g
Rep 1/1, Result: -1.062 ug/L

Sample Information/Results: Ch. 1
Total Cyanide (Cup Range: 23 - 44)

Unknowns:

Cup: 23, Sample ID: 990802-05spk D00068 5.10g/250ml +50 ug/L, Sample Type: Unknown
ManDilFact: 0.5, AutDilFact: 1.0, Weight: 1.00000 g
Rep 1/1, Result: 84.052 ug/L

Cup: 24, Sample ID: 990802-05dup D00068 5.18g/250 ml, Sample Type: Unknown
ManDilFact: 0.5, AutDilFact: 1.0, Weight: 1.00000 g
Rep 1/1, Result: -1.300 ug/L

Cup: 25, Sample ID: 990802-06 D00069 5.10g/250ml, Sample Type: Unknown
ManDilFact: 0.5, AutDilFact: 1.0, Weight: 1.00000 g
Rep 1/1, Result: -1.300 ug/L

Sample Information/Results: Ch. 1
Total Cyanide (Cup Range: 1 - 15)

DQM:

Cup: 1, Sample ID: CNICV1 091599 IS990915A 500/250ml, Sample Type: RelChkStd
ManDilFact: 0.5, AutDilFact: 1.0, Weight: 1.00000 g
Rep 1/1, Results: 75.770 ug/L
Known Conc: 80.000 ug/L, % Diff: -5.29%

Cup: 2, Sample ID: CNICB 091699 DIH2O, Sample Type: Blank
ManDilFact: 1.0, AutDilFact: 1.0, Weight: 1.00000 g
Rep 1/1, Known Conc: 0.0 ug/L
Determined Conc: -2.599 ug/L

Cup: 3, Sample ID: PBS1 091599 DIH2O 500/250ml, Sample Type: Blank
ManDilFact: 0.5, AutDilFact: 1.0, Weight: 1.00000 g
Rep 1/1, Known Conc: 0.0 ug/L
Determined Conc: -1.300 ug/L

Cup: 4, Sample ID: LCSS1 091599 IP990322A 0.25g/250ml, Sample Type: RelChkStd
ManDilFact: 0.5, AutDilFact: 1.0, Weight: 1.00000 g
Rep 1/1, Results: 69.727 ug/L
Known Conc: 80.000 ug/L, % Diff: -12.84%

Cup: 5, Sample ID: S 100 ug/L dist. 091599 IW990915A 500/250ml, Sample Type: RelChkStd
ManDilFact: 0.5, AutDilFact: 1.0, Weight: 1.00000 g
Rep 1/1, Results: 95.981 ug/L
Known Conc: 100.000 ug/L, % Diff: -4.02%

Cup: 14, Sample ID: PBS2 091599 DIH2O 500/250ml, Sample Type: Blank
ManDilFact: 0.5, AutDilFact: 1.0, Weight: 1.00000 g
Rep 1/1, Known Conc: 0.0 ug/L
Determined Conc: -1.300 ug/L

Cup: 15, Sample ID: CNCCV, Sample Type: RelChkStd
ManDilFact: 1.0, AutDilFact: 1.0, Weight: 1.00000 g
Rep 1/1, Results: 204.457 ug/L
Known Conc: 200.000 ug/L, % Diff: 2.23%

Cup: 15, Sample ID: CNICV2 091599 IS990915A 500/250ml, Sample Type: RelChkStd
ManDilFact: 0.5, AutDilFact: 1.0, Weight: 1.00000 g
Rep 1/1, Results: 74.740 ug/L
Known Conc: 80.000 ug/L, % Diff: -6.57%

Cup: 15, Sample ID: CNCCV, Sample Type: RelChkStd
ManDilFact: 1.0, AutDilFact: 1.0, Weight: 1.00000 g
Rep 1/1, Results: 203.297 ug/L
Known Conc: 200.000 ug/L, % Diff: 1.65%

Cup: 15, Sample ID: CNCCV, Sample Type: RelChkStd
ManDilFact: 1.0, AutDilFact: 1.0, Weight: 1.00000 g
Rep 1/1, Results: 204.629 ug/L
Known Conc: 200.000 ug/L, % Diff: 2.31%

Sample Information/Results: Ch. 1
Total Cyanide (Cup Range: 16 - 30)

DQM:

Cup: 16, Sample ID: CNCCB, Sample Type: Blank
ManDilFact: 1.0, AutDilFact: 1.0, Weight: 1.00000 g
Rep 1/1, Known Conc: 0.0 ug/L
Determined Conc: -1.282 ug/L

Cup: 16, Sample ID: LCSS2 091599 IP990322A 0.25g/250ml, Sample Type: RelChkStd
ManDilFact: 0.5, AutDilFact: 1.0, Weight: 1.00000 g
Rep 1/1, Results: 77.231 ug/L
Known Conc: 80.000 ug/L, % Diff: -3.46%

Cup: 16, Sample ID: CNCCB, Sample Type: Blank
ManDilFact: 1.0, AutDilFact: 1.0, Weight: 1.00000 g
Rep 1/1, Known Conc: 0.0 ug/L
Determined Conc: -1.126 ug/L

Cup: 16, Sample ID: CNCCB, Sample Type: Blank
ManDilFact: 1.0, AutDilFact: 1.0, Weight: 1.00000 g
Rep 1/1, Known Conc: 0.0 ug/L
Determined Conc: -1.551 ug/L

Multi-Channel Table
Type: DOM
Channel Range: 1 to 8 – Cup Range: 1 to 35

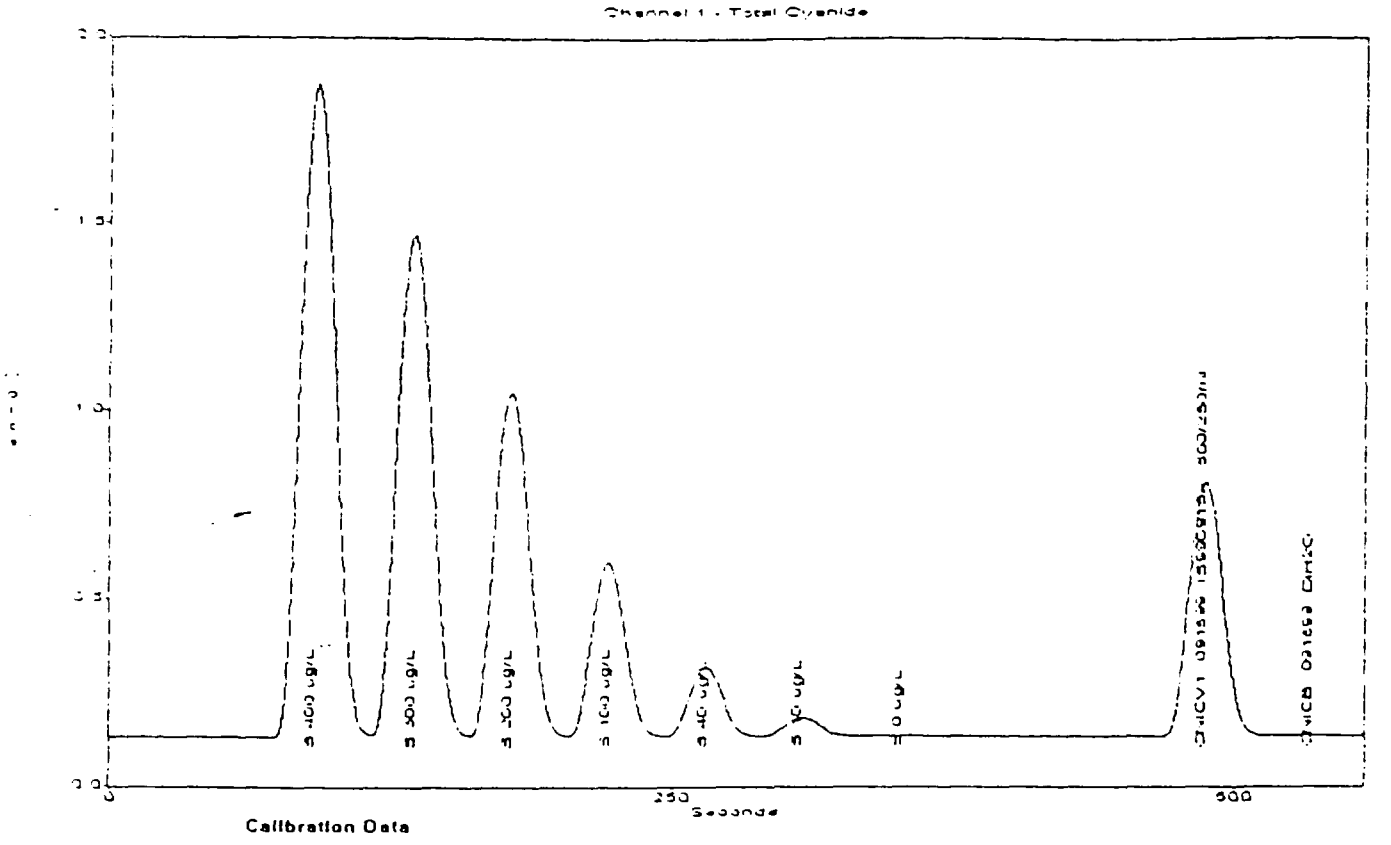
Cup	Sample ID	Sample Type	Sampling Date	Sampling Time	Rep #	Total Cyanide (ug/L)	Man Dil Factor	Auto Dil Factor
1	CNICV1 09	RelChkStd	16 Sep 99	11:37:24	1	11849677.000	0.5	1.00
				Known Concentration:		160.000		
				% Difference:		-5.288		
2	CNICB 091	Blank	16 Sep 99	11:38:08	1	0.000	1.0	1.00
3	PBS1 0915	Blank	16 Sep 99	11:38:52	1	0.000	0.5	1.00
4	LCSS1 091	RelChkStd	16 Sep 99	11:39:44	1	10920661.000	0.5	1.00
				Known Concentration:		160.000		
				% Difference:		-12.841		
5	S 100 ug/L	RelChkStd	16 Sep 99	11:40:28	1	14957238.000	0.5	1.00
				Known Concentration:		200.000		
				% Difference:		-4.019		
14	PBS2 0915	Blank	16 Sep 99	11:48:45	1	0.000	0.5	1.00
15	CNCCV	RelChkStd	16 Sep 99	11:44:57	1	15917832.000	1.0	1.00
				Known Concentration:		200.000		
				% Difference:		2.228		
15	CNICV2 09	RelChkStd	16 Sep 99	11:49:30	1	11691420.000	0.5	1.00
				Known Concentration:		160.000		
				% Difference:		-6.575		
15	CNCCV	RelChkStd	16 Sep 99	11:54:08	1	15828690.000	1.0	1.00
				Known Concentration:		200.000		
				% Difference:		1.649		
15	CNCCV	RelChkStd	16 Sep 99	12:01:06	1	15931085.000	1.0	1.00
				Known Concentration:		200.000		
				% Difference:		2.315		
16	CNCCB	Blank	16 Sep 99	11:45:44	1	101260.703	1.0	1.00
16	LCSS2 091	RelChkStd	16 Sep 99	11:50:17	1	12074428.000	0.5	1.00
				Known Concentration:		160.000		
				% Difference:		-3.461		
16	CNCCB	Blank	16 Sep 99	11:54:53	1	113250.805	1.0	1.00
16	CNCCB	Blank	16 Sep 99	12:01:51	1	80602.703	1.0	1.00

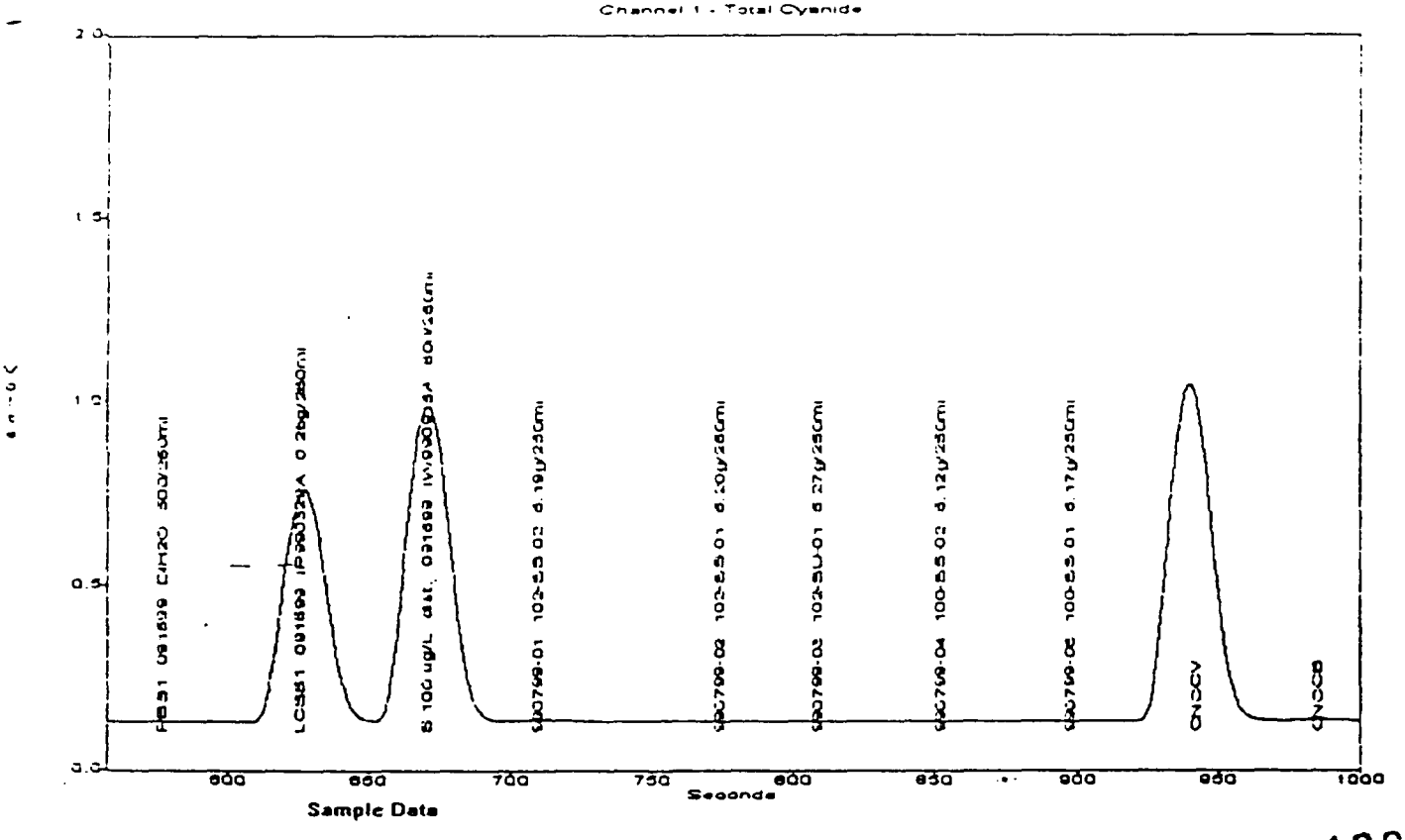
Multi-Channel Table
Type: Unknowns
Channel Range: 1 to 8 – Cup Range: 1 to 50

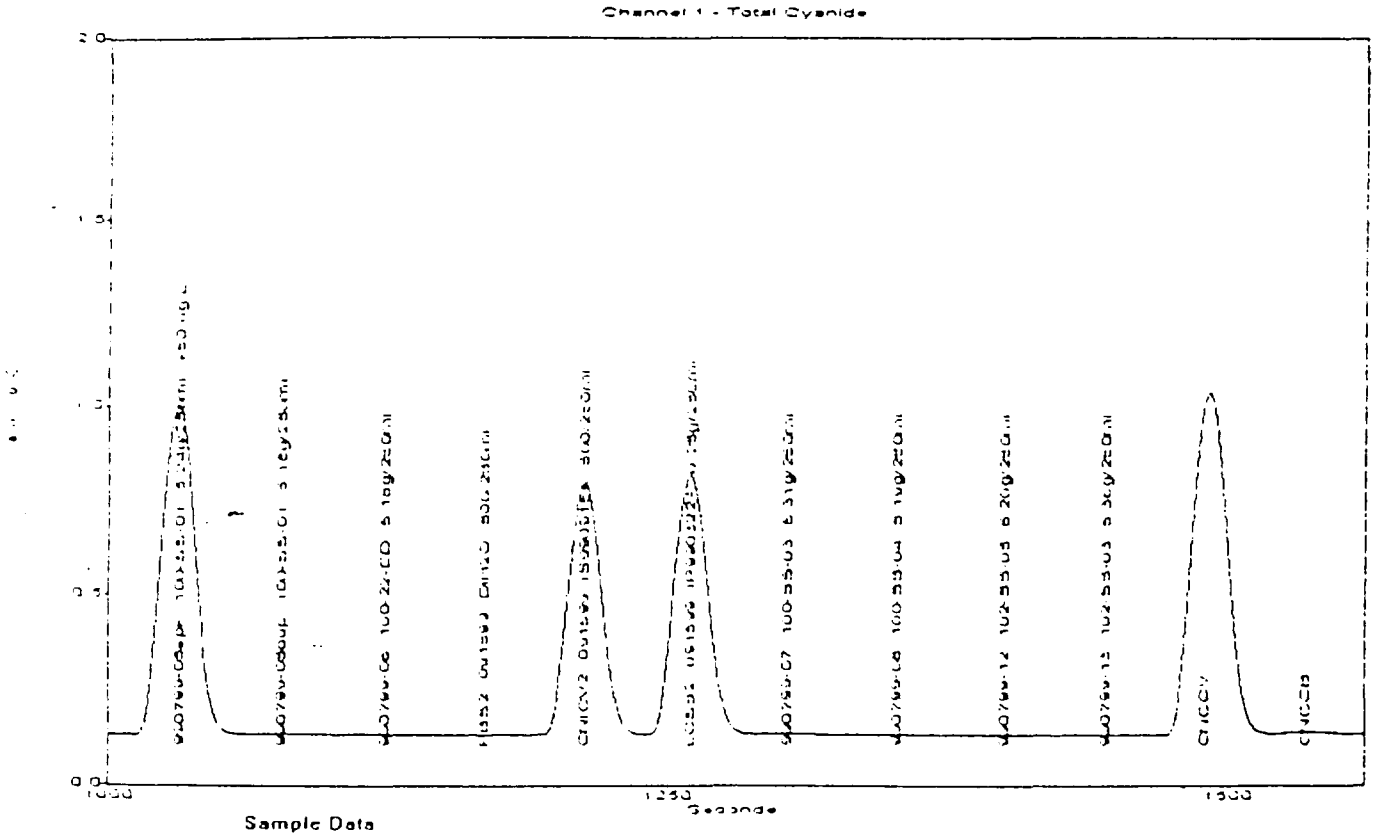
Cup	Sample ID	Sampling Date	Sampling Time	Rep #	Total Cyanide [uv-s]	Man Dil Factor	Auto Dil Factor
6	990799-01 1	16 Sep 99	11:41:12	1	66193.953	0.5	1.00
7	990799-02 1	16 Sep 99	11:41:57	1	13249.800	0.5	1.00
8	990799-03 1	16 Sep 99	11:42:44	1	0.000	0.5	1.00
9	990799-04 1	16 Sep 99	11:43:27	1	0.000	0.5	1.00
10	990799-05 1	16 Sep 99	11:44:12	1	0.000	0.5	1.00
11	990799-05spk	16 Sep 99	11:46:28	1	15292140.000	0.5	1.00
12	990799-05dup	16 Sep 99	11:47:14	1	0.000	0.5	1.00
13	990799-06 1	16 Sep 99	11:48:00	1	0.000	0.5	1.00
17	990799-07 1	16 Sep 99	11:51:03	1	60962.102	0.5	1.00
18	990799-08 1	16 Sep 99	11:51:49	1	0.000	0.5	1.00
19	990799-12 1	16 Sep 99	11:52:37	1	0.000	0.5	1.00
20	990799-13 1	16 Sep 99	11:53:22	1	0.000	0.5	1.00
21	990799-14 1	16 Sep 99	11:55:41	1	0.000	0.5	1.00
22	990802-05 D	16 Sep 99	11:56:29	1	36501.801	0.5	1.00
23	990802-05spk	16 Sep 99	11:57:12	1	13123095.000	0.5	1.00
24	990802-05dup	16 Sep 99	11:58:00	1	0.000	0.5	1.00
25	990802-06 D	16 Sep 99	11:58:45	1	0.000	0.5	1.00

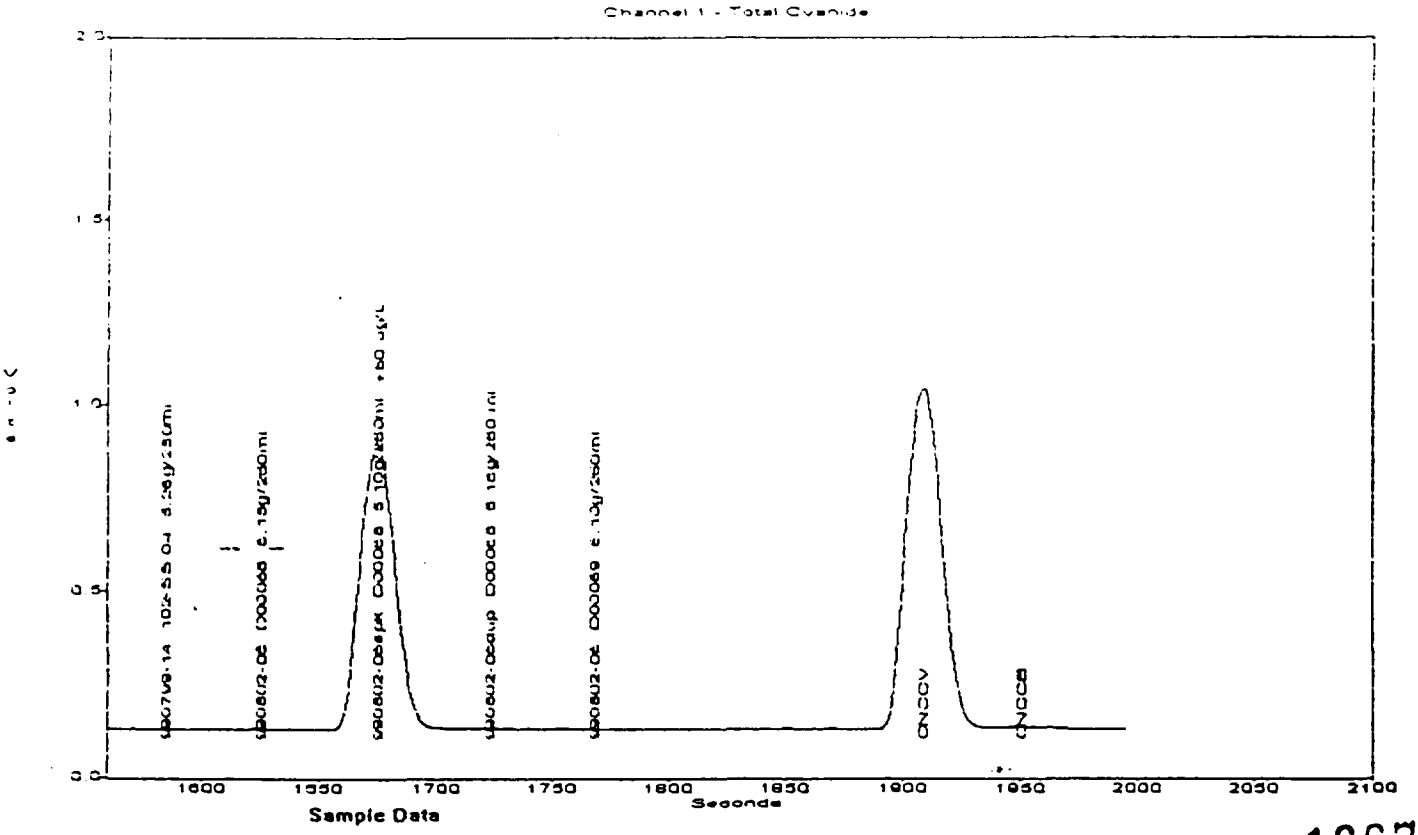
Multi-Channel Table
Type: Calibration Standards
Channel Range: 1 to 8 – Cup Range: 1 to 100

Cup	Sample ID	Sampling Date	Sampling Time	Rep #	Total Cyanide [uv-s]	Man Dil Factor	Auto Dil Factor
1	S 400 ug/L	16 Sep 99	11:30:49	1	30630454.000	1.0	1.00
2	S 300 ug/L	16 Sep 99	11:31:33	1	23432916.000	1.0	1.00
3	S 200 ug/L	16 Sep 99	11:32:16	1	15862851.000	1.0	1.00
4	S 100 ug/L	16 Sep 99	11:32:59	1	8078259.000	1.0	1.00
5	S 40 ug/L	16 Sep 99	11:33:42	1	3218268.000	1.0	1.00
6	S 10 ug/L	16 Sep 99	11:34:26	1	860321.500	1.0	1.00
7	S 0 ug/L	16 Sep 99	11:35:10	1	36452.250	1.0	1.00


Channel 1 - Total Cyanide
Seconds
Calibration Data


Channel 1 - Total Cyanide
Seconds
Sample Data

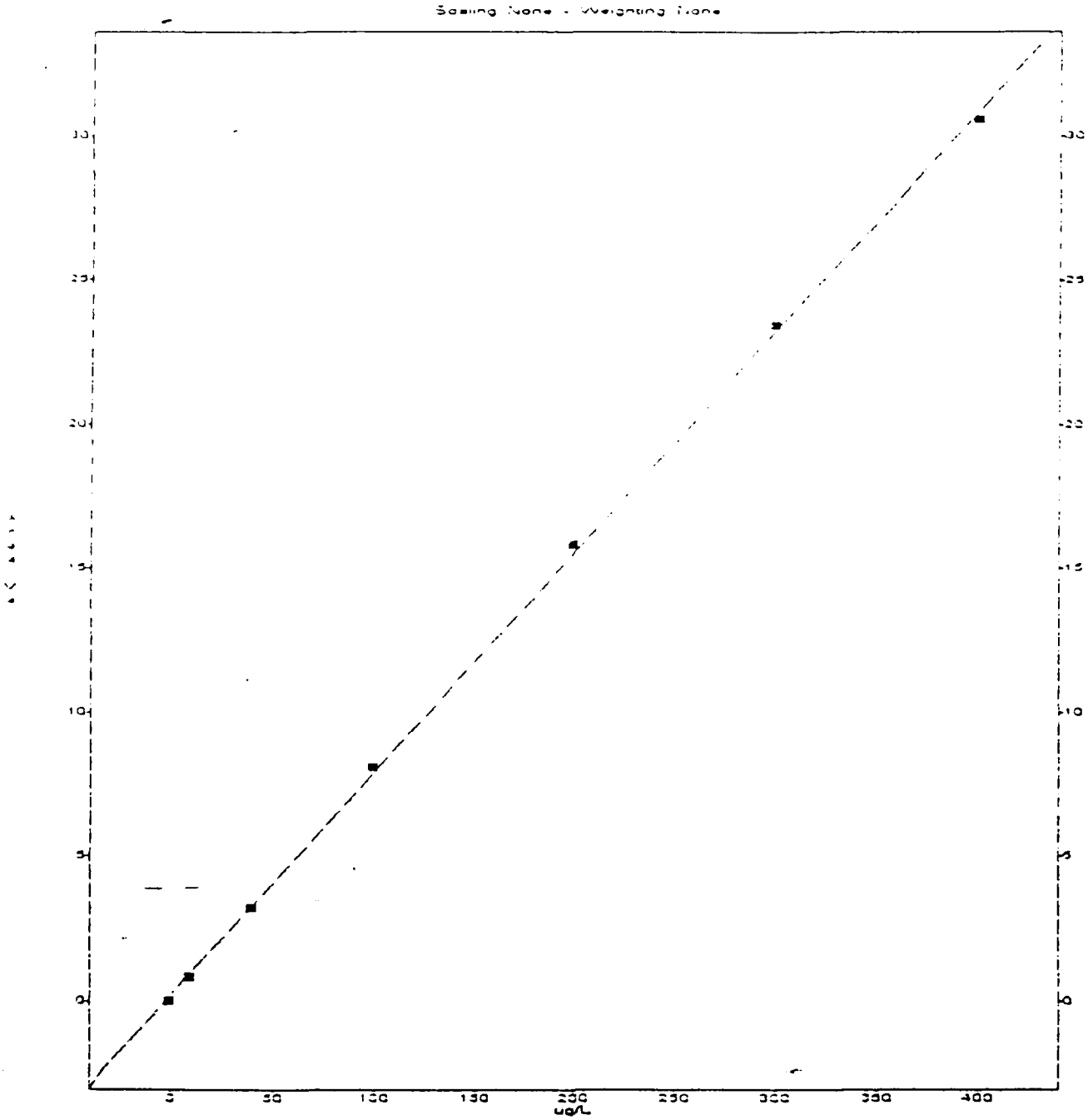

Channel 1 - Total Cyanide
Seconds
Sample Data


Channel 1 - Total Cyanide
1600
1650
1700
1750
1800
1850
1900
1950
2000
2050
2100
Seconds
Sample Data

Total Cyanide

Lvl	Area	ug/L	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Replic STD	Replic % RSD	Residual 1st Poly
1	30630454	400	30630454					0.0	0.0	1.0
2	23432916	300	23432916					0.0	0.0	-0.7
3	15862951	200	15862951					0.0	0.0	-1.9
4	8078259	100	8078259					0.0	0.0	-2.5
5	3218263	40	3218263					0.0	0.0	1.6
6	860322	10	860322					0.0	0.0	14.1
7	36432	0	36432					0.0	0.0	

1st Order Poly
Conc = 1.301e-005 Area - 2.599e+000
r' = 0.9997



Printed: Thursday, September 16, 1999 - 11:59 AM

INSTRUMENT: FIA
TRAY: 16SEP99A.TRA METHOD: TCNCLP40.MET DATAFILE: 16SEP99A.FDT
DATE/TIME: Thu Sep 16 11:30:48 1999 OPERATOR: jeff
Total Cyanide Analysis for Project #'s 990799 and 990802

*** Begin Calibration ***
Cup# 1 Sample: S 400 ug/L Type: CalStd Level: 1 Rep# 1/1
Ch 1: Total Cyanide Peak Area = 30630454.0 µv-s
Cup# 2 Sample: S 300 ug/L Type: CalStd Level: 2 Rep# 1/1
Ch 1: Total Cyanide Peak Area = 23432916.0 µv-s
Cup# 3 Sample: S 200 ug/L Type: CalStd Level: 3 Rep# 1/1
Ch 1: Total Cyanide Peak Area = 15862851.0 µv-s
Cup# 4 Sample: S 100 ug/L Type: CalStd Level: 4 Rep# 1/1
Ch 1: Total Cyanide Peak Area = 8078259.0 µv-s
Cup# 5 Sample: S 40 ug/L Type: CalStd Level: 5 Rep# 1/1
Ch 1: Total Cyanide Peak Area = 3218268.0 µv-s
Cup# 6 Sample: S 10 ug/L Type: CalStd Level: 6 Rep# 1/1
Ch 1: Total Cyanide Peak Area = 860321.5 µv-s
Cup# 7 Sample: S 0 ug/L Type: CalStd Level: 7 Rep# 1/1
Ch 1: Total Cyanide Peak Area = 36452.3 µv-s
*** Updated Calibration ***
Ch 1: Total Cyanide
** 1st Order Poly Calibration **
C[0] = 1.30078e-005
C[1] = -2.69916
R² = 0.9997
*** End Calibration Block ***
*** Calibration Passed ***
*** Starting DQM Set Manual ICV ***
Cup# 1 Sample: CNICV1 091599 IS990915A 500/250ml Type: RelChkStd Rep# 1/1
Ch 1: Total Cyanide = 151.5390 ug/L
DQM Sample Results: CNICV
Ch 1: Total Cyanide = 151.5390 ug/L
Known Conc = 160.0000 ug/l - %Diff from Known = -5.2881%
Test 1: ICV within 15% limits
*** End of DQM Set Manual ICV - Set Passed ***
*** Starting DQM Set Manual ICB ***
Cup# 2 Sample: CNICB 091699 DIH2O Type: Blank Rep# 1/1
Ch 1: Total Cyanide = -2.5992 ug/L
DQM Sample Results: CNICB
Ch 1: Total Cyanide
Determined Conc = -2.5992 ug/L
Test 1: ICB < 10 ug/L
*** End of DQM Set Manual ICB - Set Passed ***
*** Starting DQM Set PBS ***
Cup# 3 Sample: PBS1 091599 DIH2O 500/250ml Type: Blank Rep# 1/1
Ch 1: Total Cyanide = -2.5992 ug/L
DQM Sample Results: PBS
Ch 1: Total Cyanide
Determined Conc = -2.5992 ug/L
Test 1: PBS < 10.0 ug/L MRL
*** End of DQM Set PBS - Set Passed ***
*** Starting DQM Set LCSS ***
Cup# 4 Sample: LCSS1 091599 IP990322A 0.25g/250ml Type: RelChkStd Rep# 1/1
Ch 1: Total Cyanide = 139.4546 ug/L
DQM Sample Results: LCSS
Ch 1: Total Cyanide = 139.4546 ug/L
Known Conc = 160.0000 ug/L - %Diff from Known = -12.8409%
Test 1: LCSS within limits
*** End of DQM Set LCSS - Set Passed ***
*** Starting DQM Set S 100 ug/L dist. ***
Cup# 5 Sample: S 100 ug/L dist. 091599 IW990915A 500/250ml Type: RelChkStd Rep# 1/1
Ch 1: Total Cyanide = 191.9616 ug/L
DQM Sample Results: S 100 ug/L dist.
Ch 1: Total Cyanide = 191.9616 ug/L
Known Conc = 200.0000 ug/L - %Diff from Known = -4.0192%
Test 1: S 100 ug/L dist. within limits
*** End of DQM Set S 100 ug/L dist. - Set Passed ***
Cup# 6 Sample: 990799-01 102-SS-02 5.19g/250ml Type: Unknown Rep# 1/1
Ch 1: Total Cyanide = -1.7381 ug/L
Cup# 7 Sample: 990799-02 102-SS-01 5.20g/250ml Type: Unknown Rep# 1/1

Ch 1: Total Cyanide = -2.4268 ug/L
Cup# 8 Sample: 990799-03 102-SU-01 5.27g/250ml Type: Unknown Rep# 1/1
Ch 1: Total Cyanide = -2.5992 ug/L
Cup# 9 Sample: 990799-04 100-SS-02 5.12g/250ml Type: Unknown Rep# 1/1
Ch 1: Total Cyanide = -2.5992 ug/L
Cup# 10 Sample: 990799-05 100-SS-01 5.17g/250ml Type: Unknown Rep# 1/1
Ch 1: Total Cyanide = -2.5992 ug/L
***** Auto DQM Begin *****
*** Starting DQM Set Auto 2 CCV/CCB ***
Cup# 15 Sample: CNCCV Type: RelChkStd Rep# 1/1
Ch 1: Total Cyanide = 204.4568 ug/L
DQM Sample Results: CNCCV
Ch 1: Total Cyanide = 204.4568 ug/L
Known Conc = 200.0000 ug/L - %Diff from Known = 2.2284%
Test 1: Passed
Cup# 16 Sample: CNCCB Type: Blank Rep# 1/1
Ch 1: Total Cyanide = -1.2820 ug/L
DQM Sample Results: CNCCB
Ch 1: Total Cyanide
Determined Conc = -1.2820 ug/L
Test 1: CCB < 10.0 ug/L
*** End of DQM Set Auto 2 CCV/CCB - Set Passed ***
Cup# 11 Sample: 990799-05spk 100-SS-01 5.24g/250ml +50 ug/L Type: Unknown Rep# 1/1
Ch 1: Total Cyanide = 196.3179 ug/L
Cup# 12 Sample: 990799-05dup 100-SS-01 5.18g/250ml Type: Unknown Rep# 1/1
Ch 1: Total Cyanide = -2.5992 ug/L
Cup# 13 Sample: 990799-06 100-22-DD 5.18g/250ml Type: Unknown Rep# 1/1
Ch 1: Total Cyanide = -2.5992 ug/L
*** Starting DQM Set PBS ***
Cup# 14 Sample: PBS2 091599 DIH2O 500/250ml Type: Blank Rep# 1/1
Ch 1: Total Cyanide = -2.5992 ug/L
DQM Sample Results: PBS
Ch 1: Total Cyanide
Determined Conc = -2.5992 ug/L
Test 1: PBS < 10.0 ug/L MRL
*** End of DQM Set PBS - Set Passed ***
*** Starting DQM Set Manual ICV ***
Cup# 15 Sample: CNICV2 091599 IS990915A 500/250ml Type: RelChkStd Rep# 1/1
Ch 1: Total Cyanide = 149.4805 ug/L
DQM Sample Results: CNICV
Ch 1: Total Cyanide = 149.4805 ug/L
Known Conc = 160.0000 ug/l - %Diff from Known = -6.5747%
Test 1: ICV within 15% limits
*** End of DQM Set Manual ICV - Set Passed ***
*** Starting DQM Set LCSS ***
Cup# 16 Sample: LCSS2 091599 IP990322A 0.25g/250ml Type: RelChkStd Rep# 1/1
Ch 1: Total Cyanide = 154.4626 ug/L
DQM Sample Results: LCSS
Ch 1: Total Cyanide = 154.4626 ug/L
Known Conc = 160.0000 ug/L - %Diff from Known = -3.4609%
Test 1: LCSS within limits
*** End of DQM Set LCSS - Set Passed ***
Cup# 17 Sample: 990799-07 100-SS-03 5.31g/250ml Type: Unknown Rep# 1/1
Ch 1: Total Cyanide = -1.8062 ug/L
Cup# 18 Sample: 990799-08 100-SS-04 5.19g/250ml Type: Unknown Rep# 1/1
Ch 1: Total Cyanide = -2.5992 ug/L
Cup# 19 Sample: 990799-12 102-SS-05 5.20g/250ml Type: Unknown Rep# 1/1
Ch 1: Total Cyanide = -2.5992 ug/L
Cup# 20 Sample: 990799-13 102-SS-03 5.36g/250ml Type: Unknown Rep# 1/1
Ch 1: Total Cyanide = -2.5992 ug/L
***** Auto DQM Begin *****
*** Starting DQM Set Auto 2 CCV/CCB ***
Cup# 15 Sample: CNCCV Type: RelChkStd Rep# 1/1 Repeat# 1
Ch 1: Total Cyanide = 203.2972 ug/L
DQM Sample Results: CNCCV
Ch 1: Total Cyanide = 203.2972 ug/L
Known Conc = 200.0000 ug/L - %Diff from Known = 1.6486%
Test 1: Passed
Cup# 16 Sample: CNCCB Type: Blank Rep# 1/1 Repeat# 1
Ch 1: Total Cyanide = -1.1260 ug/L
DQM Sample Results: CNCCB

Ch 1: Total Cyanide
Determined Conc = -1.1260 ug/L
Test 1: CCB < 10.0 ug/L
*** End of DQM Set Auto 2 CCV/CCB - Set Passed ***
Cup# 21 Sample: 990799-14 102-SS-04 5.26g/250ml Type: Unknown Rep# 1/1
Ch 1: Total Cyanide = -2.5992 ug/L
Cup# 22 Sample: 990802-05 D00068 5.18g/250ml Type: Unknown Rep# 1/1
Ch 1: Total Cyanide = -2.1244 ug/L
Cup# 23 Sample: 990802-06spk D00068 5.10g/250ml +50 ug/L Type: Unknown Rep# 1/1
Ch 1: Total Cyanide = 168.1034 ug/L
Cup# 24 Sample: 990802-05dup D00068 5.18g/250 ml Type: Unknown Rep# 1/1
Ch 1: Total Cyanide = -2.5992 ug/L
Cup# 25 Sample: 990802-06 D00069 5.10g/250ml Type: Unknown Rep# 1/1
Ch 1: Total Cyanide = -2.5992 ug/L
***** Auto DQM Begin *****
*** Starting DQM Set Auto 2 CCV/CCB ***
Cup# 15 Sample: CNCCV Type: RelChkStd Rep# 1/1 Repeat# 2
Ch 1: Total Cyanide = 204.6292 ug/L
DQM Sample Results: CNCCV
Ch 1: Total Cyanide = 204.6292 ug/L
Known Conc = 200.0000 ug/L - %Diff from Known = 2.3146%
Test 1: Passed
Cup# 16 Sample: CNCCB Type: Blank Rep# 1/1 Repeat# 2
Ch 1: Total Cyanide = -1.5507 ug/L
DQM Sample Results: CNCCB
Ch 1: Total Cyanide
Determined Conc = -1.5507 ug/L
Test 1: CCB < 10.0 ug/L
*** End of DQM Set Auto 2 CCV/CCB - Set Passed ***
******* Tray Run Complete *******

Total Cyanide Analysis for Project #'s 990799, 990802, 990807, and Reactive Cyanide Analysis for Project # 990816.

JDM 9/17/99

Review: [illegible] 1/20/11

OPERATOR:	Jeff
ACQ. TIME:	Sep 17, 1999 16:10:13
DATA FILENAME:	G:\ALAN\OMNION\FIA_DATA\17SEP99A.FDT
METHOD FILENAME:	
TRAY FILENAME:	G:\ALAN\OMNION\TRAYS\17SEP99A.TRA

Method - Ch. 1 [Total Cyanide]

METHOD DESCRIPTION:

Created:	Oct 8, 1997 14:01:34
Modified:	Sep 17, 1999 16:10:11

Total Cyanide Analysis Following Distillation using EPA Method 335.2 CLP-M 4.0 and SW846 Method 9010A. 2/25/97.

ANALYTE DATA:

Analyte Name:	Total Cyanide
Concentration Units:	ug/L
Chemistry:	Direct
Inject to Peak Start (s):	42.0
Peak Base Width (s):	19.500
% Width Tolerance:	100.000
Threshold:	3000.000
Autodilution Trigger:	On
QuikChem Method:	10-204-00-1-A

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CALIBRATION DATA:

Levels:

1 : 400.000 2 : 300.000 3 : 200.000 4 : 100.000
5 : 40.000 6 : 10.000 7 : 0.000

Calibration Rep Handling:	Replace
Calibration Fit Type:	1st Order Poly
Force Though Zero:	No
Weighting Method:	None
Concentration Scaling:	None

SAMPLER TIMING:

Method Cycle Period:	45.0
Min. Probe in Wash Period:	14.0
Probe in Sample Period:	20.0

*** Prep Sequence Not Enabled ***

VALVE TIMING:

Method Cycle Period:	45.0
Sample Reaches 1st Valve:	29.6
Valve:	On
Load Time:	0.0
Load Period:	15.0
Inject Period:	30.0

Sample Information/Results: Ch. 1
Total Cyanide (Cup Range: 1 - 22)

Unknowns:

Cup: 5. Sample ID: 990799-19 100-MW-DD-01 500/250ml. Sample Type: Unknown
ManDilFact: 0.5. AutDilFact: 1.0. Weight: 1.00000 g
Rep 1/1. Result: -1.507 ug/L

Cup: 6. Sample ID: 990799-20 100-MW-004-01 500/250ml. Sample Type: Unknown
ManDilFact: 0.5. AutDilFact: 1.0. Weight: 1.00000 g
Rep 1/1. Result: -1.507 ug/L 9/20/99 JDM

Cup: 7. Sample ID: 990802-01 D00064 500/250ml. Sample Type: Unknown
ManDilFact: 0.5. AutDilFact: 1.0. Weight: 1.00000 g
Rep 1/1. Result: -1.223 ug/L

Cup: 8. Sample ID: 990802-01spk D00064 500/250ml +50 ug CN. Sample Type: Unknown
ManDilFact: 0.5. AutDilFact: 1.0. Weight: 1.00000 g
Rep 1/1. Result: 85.524 ug/L

Cup: 9. Sample ID: 990802-01dup D00064 50/250ml. Sample Type: Unknown
ManDilFact: 0.5. AutDilFact: 1.0. Weight: 1.00000 g
Rep 1/1. Result: -1.011 ug/L

Cup: 10. Sample ID: 990802-02 D00065 500/250ml. Sample Type: Unknown
ManDilFact: 0.5. AutDilFact: 1.0. Weight: 1.00000 g
Rep 1/1. Result: -1.089 ug/L

Cup: 11. Sample ID: 990802-03 D00066 500/250ml. Sample Type: Unknown
ManDilFact: 0.5. AutDilFact: 1.0. Weight: 1.00000 g
Rep 1/1. Result: -1.007 ug/L

Cup: 12. Sample ID: 990802-04 D00067 500/250ml. Sample Type: Unknown
ManDilFact: 0.5. AutDilFact: 1.0. Weight: 1.00000 g
Rep 1/1. Result: -1.333 ug/L

Cup: 13. Sample ID: 990802-13 D00076 500/250ml. Sample Type: Unknown
ManDilFact: 0.5. AutDilFact: 1.0. Weight: 1.00000 g
Rep 1/1. Result: -1.325 ug/L

Cup: 16. Sample ID: 990802-18 D00081 500/250ml. Sample Type: Unknown
ManDilFact: 0.5. AutDilFact: 1.0. Weight: 1.00000 g
Rep 1/1. Result: 17.784 ug/L

Cup: 17. Sample ID: 990807-01 FB091099-01 500/250ml. Sample Type: Unknown
ManDilFact: 0.5. AutDilFact: 1.0. Weight: 1.00000 g
Rep 1/1. Result: -1.225 ug/L

Cup: 18. Sample ID: 990807-02 ER091099-01 500/250ml. Sample Type: Unknown
ManDilFact: 0.5. AutDilFact: 1.0. Weight: 1.00000 g
Rep 1/1. Result: -1.080 ug/L

Cup: 19. Sample ID: PBS 091799 RCN DIH2O. Sample Type: Unknown
ManDilFact: 1.0. AutDilFact: 1.0. Weight: 1.00000 g
Rep 1/1. Result: -3.015 ug/L

Cup: 20. Sample ID: QC1 (200 ug/L) RCN 091799 IW990917A. Sample Type: Unknown
ManDilFact: 1.0. AutDilFact: 1.0. Weight: 1.00000 g
Rep 1/1. Result: 34.082 ug/L

Cup: 21. Sample ID: QC2 (200 ug/L) RCN 091799 IW990917A. Sample Type: Unknown
ManDilFact: 1.0. AutDilFact: 1.0. Weight: 1.00000 g
Rep 1/1. Result: 31.649 ug/L

Cup: 22. Sample ID: 990816-03 GN-D006703 10.24g/250ml. Sample Type: Unknown
ManDilFact: 1.0. AutDilFact: 1.0. Weight: 1.00000 g
Rep 1/1. Result: -3.015 ug/L

9/20/99
JDM

Sample Information/Results: Ch. 1
Total Cyanide (Cup Range: 23 - 44)

Unknowns:

Cup: 23. Sample ID: 990816-03 dup GN-D006703 10.22g/250ml. Sample Type: Unknown
ManDilFact: 1.0. AutDilFact: 1.0. Weight: 1.00000 g
Rep 1/1. Result: -3.015 ug/L

9/20/99
JDM

Sample Information/Results: Ch. 1
Total Cyanide (Cup Range: 1 - 15)

DOM:

Cup: 1, Sample ID: CNICV1 091799 IS990915A 500/250ml, Sample Type: RelChkStd
ManDilFact: 0.5, AutDilFact: 1.0, Weight: 1.00000 g
Rep 1/1, Results: 79.009 ug/L
Known Conc: 80.000 ug/L, % Diff: -1.24%

Cup: 2, Sample ID: CNICB 091799 DIH2O, Sample Type: Blank
ManDilFact: 1.0, AutDilFact: 1.0, Weight: 1.00000 g
Rep 1/1, Known Conc: 0.0 ug/L
Determined Conc: -2.749 ug/L

Cup: 3, Sample ID: PBW1 091799 DIH2O 500/250ml, Sample Type: Blank
ManDilFact: 0.5, AutDilFact: 1.0, Weight: 1.00000 g
Rep 1/1, Known Conc: 0.0 ug/L
Determined Conc: -1.140 ug/L

Cup: 4, Sample ID: S 100 ug/L dist. 091799 IW990917A 500/250ml, Sample Type: RelChkStd
ManDilFact: 0.5, AutDilFact: 1.0, Weight: 1.00000 g
Rep 1/1, Results: 99.024 ug/L
Known Conc: 100.000 ug/L, % Diff: -0.98%

Cup: 14, Sample ID: PBW2 091799 DIH2O 500/250ml, Sample Type: Blank
ManDilFact: 0.5, AutDilFact: 1.0, Weight: 1.00000 g
Rep 1/1, Known Conc: 0.0 ug/L
Determined Conc: -1.507 ug/L

Cup: 15, Sample ID: CNCCV, Sample Type: RelChkStd
ManDilFact: 1.0, AutDilFact: 1.0, Weight: 1.00000 g
Rep 1/1, Results: 202.662 ug/L
Known Conc: 200.000 ug/L, % Diff: 1.33%

Cup: 15, Sample ID: CNICV2 091799 IS990915A 500/250ml, Sample Type: RelChkStd
ManDilFact: 0.5, AutDilFact: 1.0, Weight: 1.00000 g
Rep 1/1, Results: 77.994 ug/L
Known Conc: 80.000 ug/L, % Diff: -2.51%

Cup: 15, Sample ID: CNCCV, Sample Type: RelChkStd
ManDilFact: 1.0, AutDilFact: 1.0, Weight: 1.00000 g
Rep 1/1, Results: 201.174 ug/L
Known Conc: 200.000 ug/L, % Diff: 0.59%

Cup: 15, Sample ID: CNCCV, Sample Type: RelChkStd
ManDilFact: 1.0, AutDilFact: 1.0, Weight: 1.00000 g
Rep 1/1, Results: 201.514 ug/L
Known Conc: 200.000 ug/L, % Diff: 0.76%

Sample Information/Results: Ch. 1
Total Cyanide (Cup Range: 16 - 30)

DOM:

Cup: 16, Sample ID: CNCCB, Sample Type: Blank
ManDilFact: 1.0, AutDilFact: 1.0, Weight: 1.00000 g
Rep 1/1, Known Conc: 0.0 ug/L
Determined Conc: -2.032 ug/L

Cup: 16, Sample ID: CNCCB, Sample Type: Blank
ManDilFact: 1.0, AutDilFact: 1.0, Weight: 1.00000 g
Rep 1/1, Known Conc: 0.0 ug/L
Determined Conc: -1.552 ug/L

Cup: 16, Sample ID: CNCCB, Sample Type: Blank
ManDilFact: 1.0, AutDilFact: 1.0, Weight: 1.00000 g
Rep 1/1, Known Conc: 0.0 ug/L
Determined Conc: -1.752 ug/L

Multi-Channel Table
Type: DQM
Channel Range: 1 to 8 – Cup Range: 1 to 35

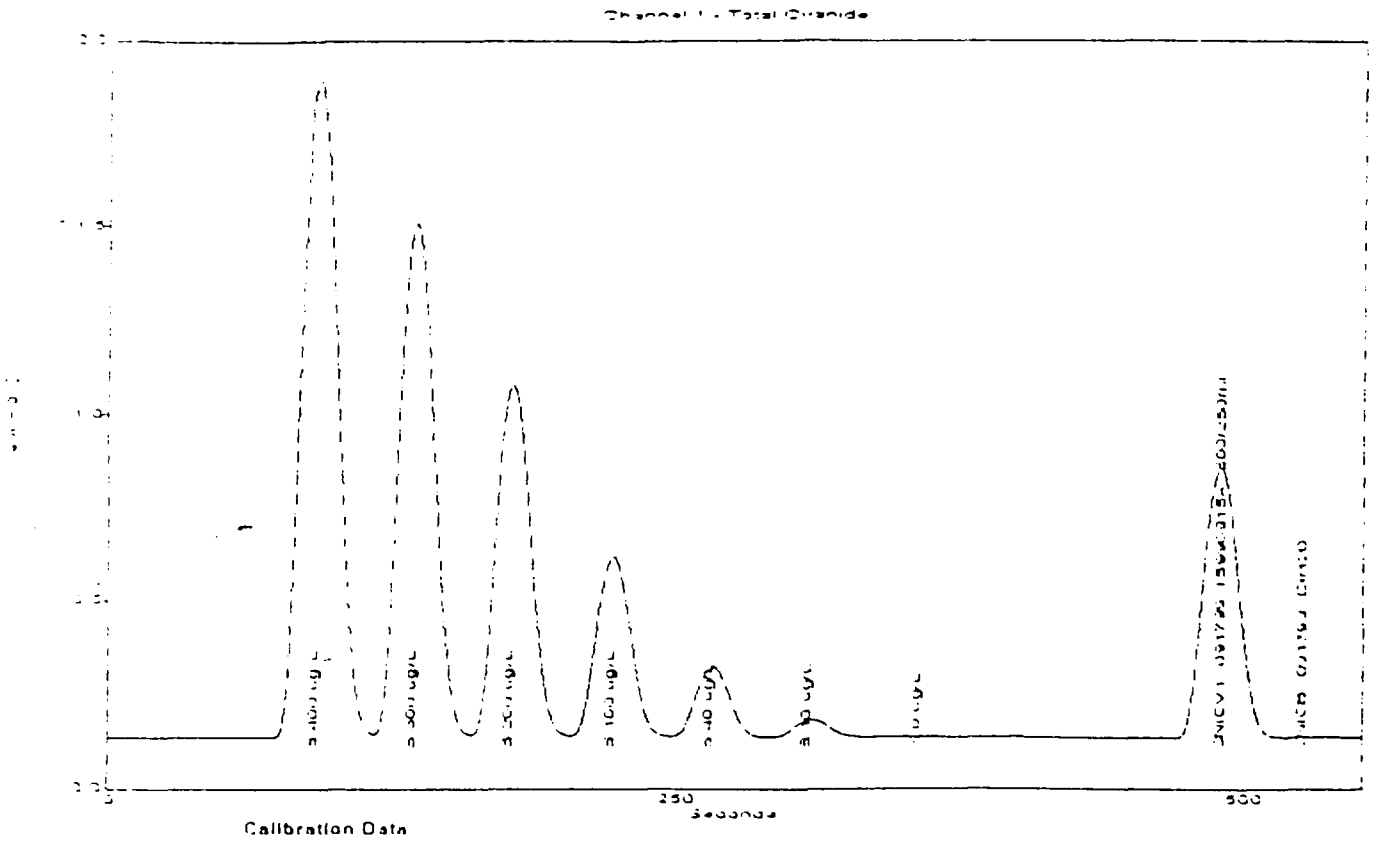
Cup	Sample ID	Sample Type	Sampling Date	Sampling Time	Rep #	Total Cyanide (uv-s)	Man Dil Factor	Auto Dil Factor
1	CNICV1 09	RelChkStd	17 Sep 99	16:16:53	1	12630601.000	0.5	1.00
				Known Concentration:		160.000		
				% Difference:		-1.239		
2	CNICB 091	Blank	17 Sep 99	16:17:37	1	20819.000	1.0	1.00
3	PBW1 0917	Blank	17 Sep 99	16:18:21	1	57561.801	0.5	1.00
4	S 100 ug/L	RelChkStd	17 Sep 99	16:19:06	1	15770366.000	0.5	1.00
				Known Concentration:		200.000		
				% Difference:		-0.976		
14	PBW2 0917	Blank	17 Sep 99	16:28:05	1	0.000	0.5	1.00
15	CNCCV	RelChkStd	17 Sep 99	16:24:21	1	16132320.000	1.0	1.00
				Known Concentration:		200.000		
				% Difference:		1.331		
15	CNICV2 09	RelChkStd	17 Sep 99	16:28:49	1	12471449.000	0.5	1.00
				Known Concentration:		160.000		
				% Difference:		-2.507		
15	CNCCV	RelChkStd	17 Sep 99	16:33:24	1	16015597.000	1.0	1.00
				Known Concentration:		200.000		
				% Difference:		0.587		
15	CNCCV	RelChkStd	17 Sep 99	16:38:51	1	16042318.000	1.0	1.00
				Known Concentration:		200.000		
				% Difference:		0.757		
16	CNCCB	Blank	17 Sep 99	16:25:05	1	77092.648	1.0	1.00
16	CNCCB	Blank	17 Sep 99	16:34:10	1	114733.602	1.0	1.00
16	CNCCB	Blank	17 Sep 99	16:39:36	1	99039.148	1.0	1.00

Multi-Channel Table
Type: Unknowns
Channel Range: 1 to 8 – Cup Range: 1 to 50

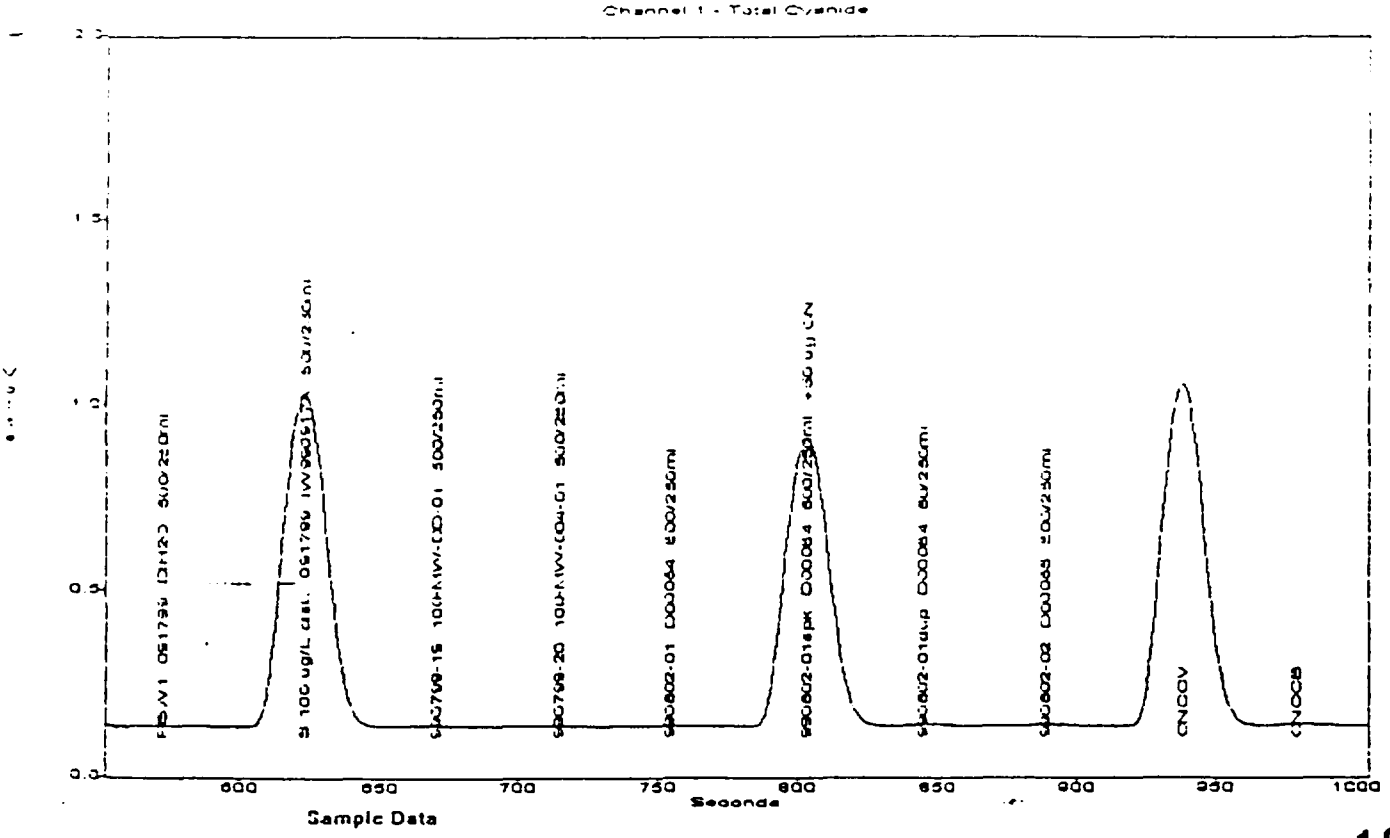
Cup	Sample ID	Sampling Date	Sampling Time	Rep #	Total Cyanide (uv-s)	Man Dil Factor	Auto Dil Factor
5	990799-19 1	17 Sep 99	16:19:52	1	0.000	0.5	1.00
6	990799-20 1	17 Sep 99	16:20:36	1	0.000	0.5	1.00
7	990802-01 D	17 Sep 99	16:21:23	1	44616.302	0.5	1.00
8	990802-01spk	17 Sep 99	16:22:07	1	13652746.000	0.5	1.00
9	990802-01dup	17 Sep 99	16:22:52	1	77896.750	0.5	1.00
10	990802-02 D	17 Sep 99	16:23:37	1	65559.203	0.5	1.00
11	990802-03 D	17 Sep 99	16:25:50	1	78553.398	0.5	1.00
12	990802-04 D	17 Sep 99	16:26:37	1	27286.900	0.5	1.00
13	990802-13 D	17 Sep 99	16:27:20	1	28683.201	0.5	1.00
16	990802-18 D	17 Sep 99	16:29:35	1	3026207.500	0.5	1.00
17	990807-01 F	17 Sep 99	16:30:20	1	44319.199	0.5	1.00
18	990807-02 E	17 Sep 99	16:31:08	1	67076.453	0.5	1.00
19	PBS 091799	17 Sep 99	16:31:54	1	0.000	1.0	1.00
20	QC1 (200 ug/	17 Sep 99	16:32:39	1	2909669.250	1.0	1.00
21	QC2 (200 ug/	17 Sep 99	16:34:59	1	2718898.250	1.0	1.00
22	990816-03 G	17 Sep 99	16:35:45	1	0.000	1.0	1.00
23	990816-03 du	17 Sep 99	16:36:32	1	0.000	1.0	1.00

Multi-Channel Table
Type: Calibration Standards
Channel Range: 1 to 8 – Cup Range: 1 to 100

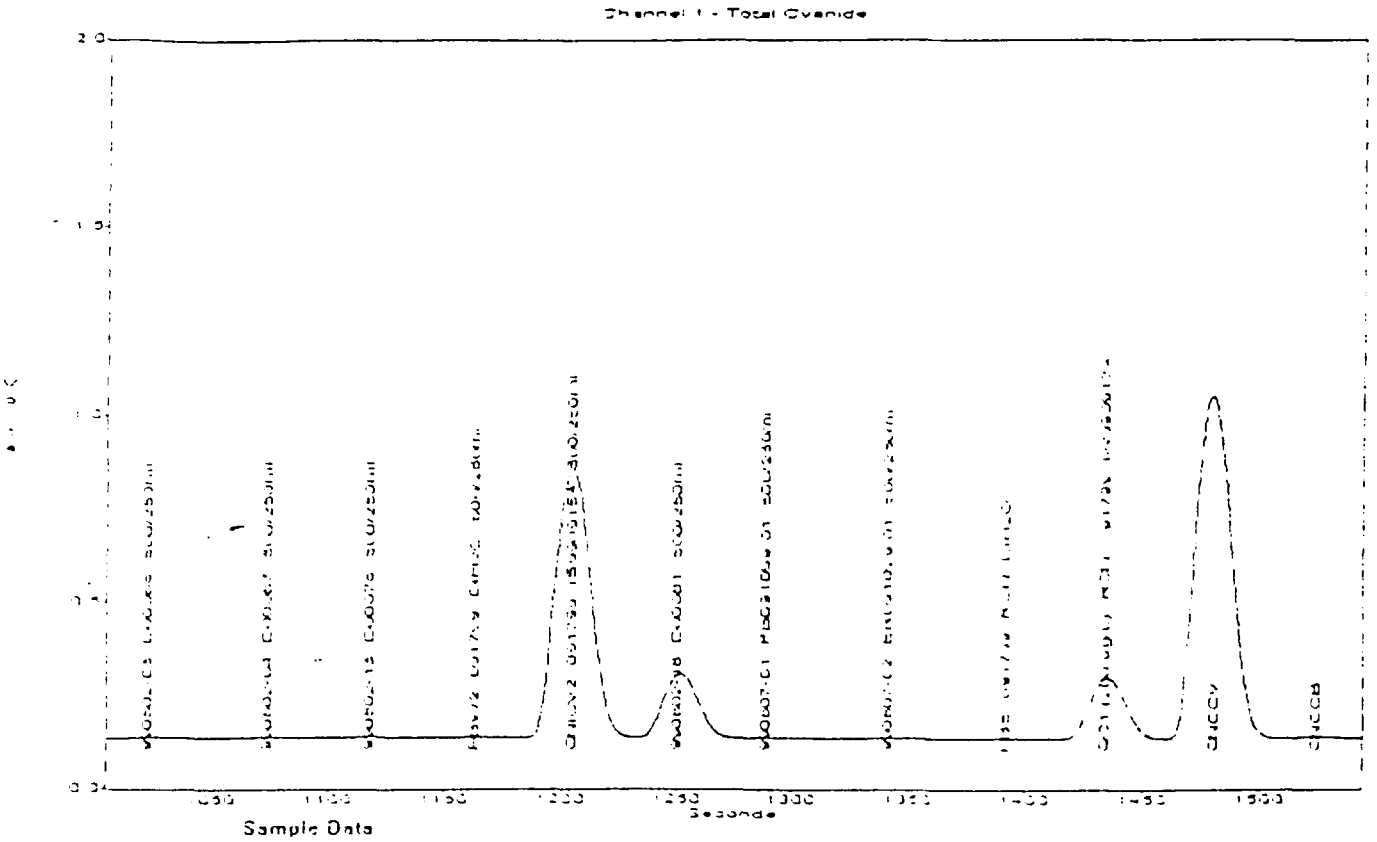
Cup	Sample ID	Sampling Date	Sampling Time	Rep #	Total Cyanide (uv-s)	Man Dil Factor	Auto Dil Factor
1	S 400 ug/L	17 Sep 99	16:10:16	1	31220010.000	1.0	1.00
2	S 300 ug/L	17 Sep 99	16:10:59	1	23905086.000	1.0	1.00
3	S 200 ug/L	17 Sep 99	16:11:42	1	16348957.000	1.0	1.00
4	S 100 ug/L	17 Sep 99	16:12:25	1	8351454.500	1.0	1.00
5	S 40 ug/L	17 Sep 99	16:13:09	1	3314293.500	1.0	1.00
6	S 10 ug/L	17 Sep 99	16:13:53	1	872582.688	1.0	1.00
7	S 0 ug/L	17 Sep 99	16:14:38	1	0.000	1.0	1.00

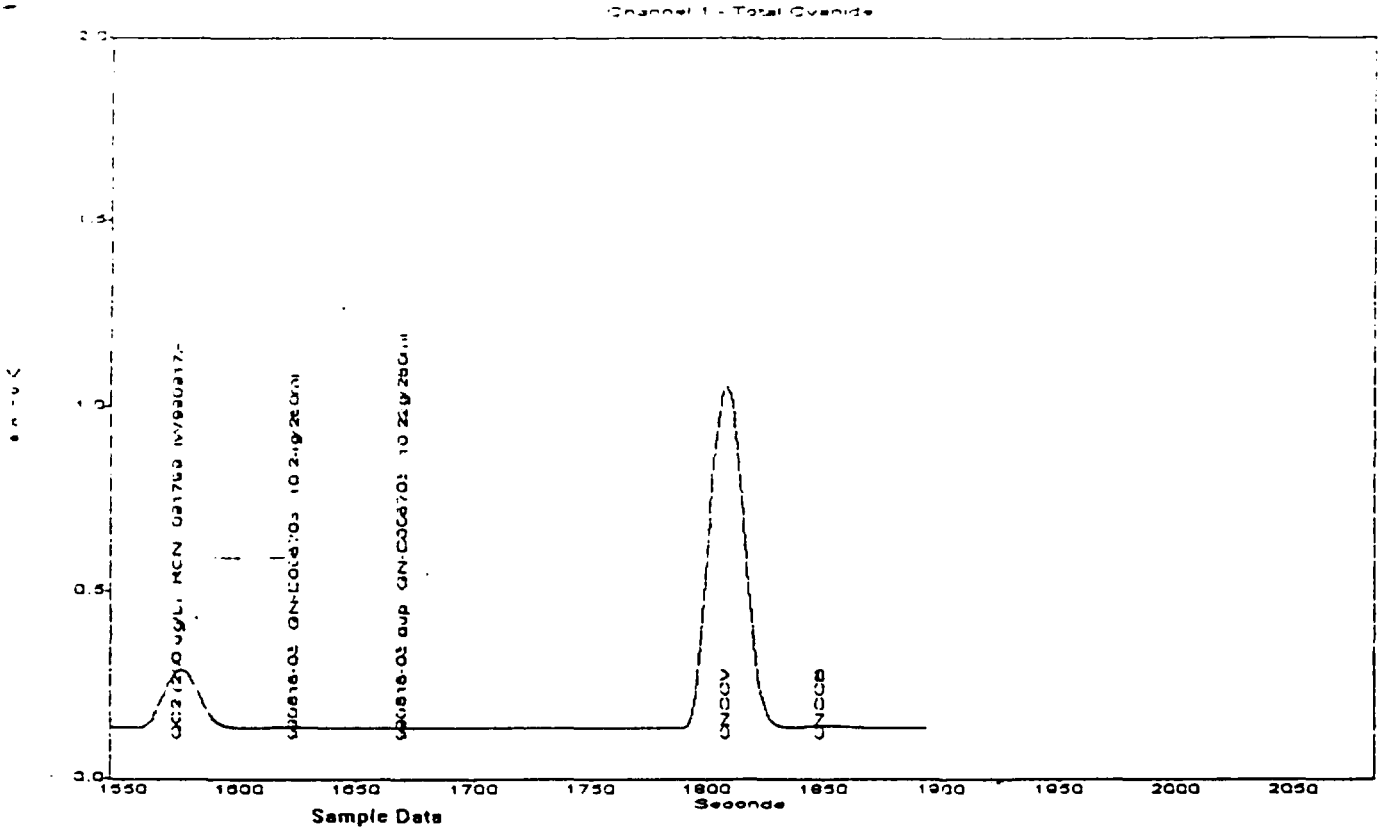


Calibration Data



Sample Data


Channel 1 - Total Cyanide
Sample Data
Seconds

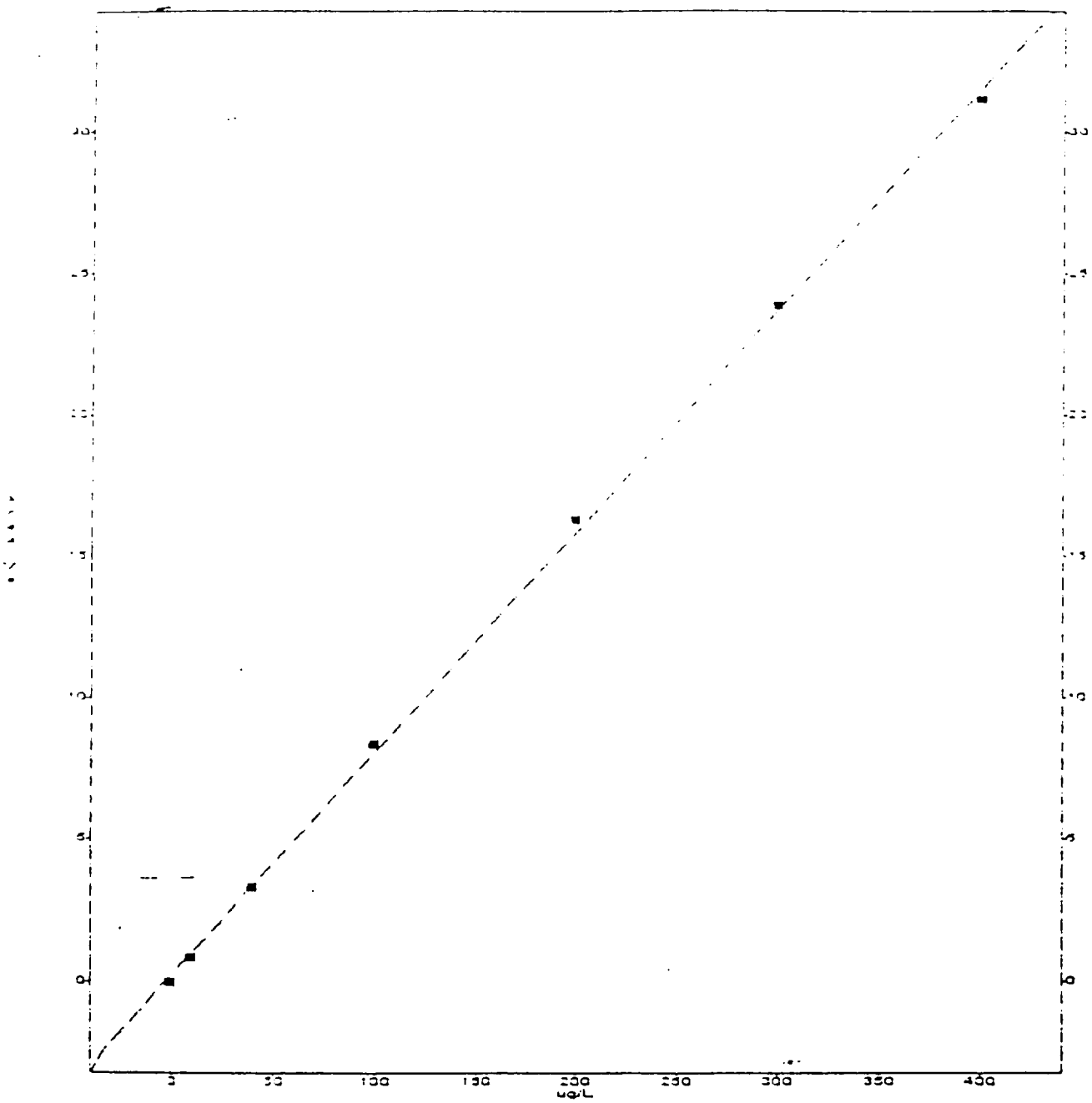

Channel 1 - Total Cyanide
Sample Data
Seconds

Total Cyanide

Lvl	Area	ug/L	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Replic STD	Replic % RSD	Residual 1st Poly
1	31220010	400	31220010					0.0	0.0	1.0
2	23905086	300	23905086					0.0	0.0	-0.6
3	16348957	200	16348957					0.0	0.0	-2.7
4	8351455	100	8351455					0.0	0.0	-3.5
5	3314294	40	3314294					0.0	0.0	1.6
6	972533	10	972533					0.0	0.0	13.5
7	0	0	0					0.0	0.0	

1st Order Poly
Conc = 1.275e-005 Area - 3.015e+000
R² = 0.9994

Scaling None - Weighting None



Printed: Friday, September 17, 1999 - 04:24 PM

INSTRUMENT: FIA
TRAY 17SEP99A.TRA METHOD: TCNCLP40 MET DATAFILE 17SEP99A.FDT
DATE/TIME: Fri Sep 17 16:10:14 1999 OPERATOR: jeff
Total Cyanide Analysis for project #'s 990799, 990802, 990807, and Reactive Cyanide Analysis for Projec

*** Begin Calibration ***
Cup# 1 Sample: S 400 ug/L Type: CalStd Level: 1 Rep# 1/1
Ch 1: Total Cyanide Peak Area = 31220010.0 µv-s
Cup# 2 Sample: S 300 ug/L Type: CalStd Level: 2 Rep# 1/1
Ch 1: Total Cyanide Peak Area = 23905086.0 µv-s
Cup# 3 Sample: S 200 ug/L Type: CalStd Level: 3 Rep# 1/1
Ch 1: Total Cyanide Peak Area = 16348957.0 µv-s
Cup# 4 Sample: S 100 ug/L Type: CalStd Level: 4 Rep# 1/1
Ch 1: Total Cyanide Peak Area = 8351454.5 µv-s
Cup# 5 Sample: S 40 ug/L Type: CalStd Level: 5 Rep# 1/1
Ch 1: Total Cyanide Peak Area = 3314293.5 µv-s
Cup# 6 Sample: S 10 ug/L Type: CalStd Level: 6 Rep# 1/1
Ch 1: Total Cyanide Peak Area = 872582.7 µv-s
Cup# 7 Sample: S 0 ug/L Type: CalStd Level: 7 Rep# 1/1
Ch 1: Total Cyanide Peak Area = 0.0 µv-s
*** Updated Calibration ***
Ch 1: Total Cyanide
** 1st Order Poly Calibration **
C[0] = 1.27494e-005
C[1] = -3.01476
R^2 = 0.9994
*** End Calibration Block ***
*** Calibration Passed ***
*** Starting DQM Set Manual ICV ***
Cup# 1 Sample: CNICV1 091799 IS990915A 500/250ml Type: RelChkStd Rep# 1/1
Ch 1: Total Cyanide = 158.0172 ug/L
DQM Sample Results: CNICV
Ch 1: Total Cyanide = 158.0172 ug/L
Known Conc = 160.0000 ug/l - %Diff from Known = -1.2393%
Test 1: ICV within 15% limits
*** End of DQM Set Manual ICV - Set Passed ***
*** Starting DQM Set Manual ICB ***
Cup# 2 Sample: CNICB 091799 DIH2O Type: Blank Rep# 1/1
Ch 1: Total Cyanide = -2.7493 ug/L
DQM Sample Results: CNICB
Ch 1: Total Cyanide
Determined Conc = -2.7493 ug/L
Test 1: ICB < 10 ug/L
*** End of DQM Set Manual ICB - Set Passed ***
*** Starting DQM Set PBW ***
Cup# 3 Sample: PBW1 091799 DIH2O 500/250ml Type: Blank Rep# 1/1
Ch 1: Total Cyanide = -2.2809 ug/L
DQM Sample Results: PBW
Ch 1: Total Cyanide
Determined Conc = -2.2809 ug/L
Test 1: PBW < 10.0 ug/L MRL
*** End of DQM Set PBW - Set Passed ***
*** Starting DQM Set S 100 ug/L dist. ***
Cup# 4 Sample: S 100 ug/L dist. 091799 IW990917A 500/250ml Type: RelChkStd Rep# 1/1
Ch 1: Total Cyanide = 198.0471 ug/L
DQM Sample Results: S 100 ug/L dist.
Ch 1: Total Cyanide = 198.0471 ug/L
Known Conc = 200.0000 ug/L - %Diff from Known = -0.9764%
Test 1: S 100 ug/L dist. within limits
*** End of DQM Set S 100 ug/L dist. - Set Passed ***
Cup# 5 Sample: 990799-19 100-MW-DD-01 500/250ml Type: Unknown Rep# 1/1
Ch 1: Total Cyanide = -3.0148 ug/L
Cup# 6 Sample: 990799-20 100-MW-004-01 500/250ml Type: Unknown Rep# 1/1
Ch 1: Total Cyanide = -3.0148 ug/L
Cup# 7 Sample: 990802-01 D00064 500/250ml Type: Unknown Rep# 1/1
Ch 1: Total Cyanide = -2.4459 ug/L
Cup# 8 Sample: 990802-01spk D00064 500/250ml +50 ug CN Type: Unknown Rep# 1/1
Ch 1: Total Cyanide = 171.0489 ug/L
Cup# 9 Sample: 990802-01dup D00064 50/250ml Type: Unknown Rep# 1/1
Ch 1: Total Cyanide = -2.0216 ug/L
Cup# 10 Sample: 990802-02 D00065 500/250ml Type: Unknown Rep# 1/1

Ch 1: Total Cyanide = -2.1789 ug/L
***** Auto DQM Begin *****
*** Starting DQM Set Auto 2 CCV/CCB ***
Cup# 15 Sample: CNCCV Type: RelChkStd Rep# 1/1
Ch 1: Total Cyanide = 202.6618 ug/L
DQM Sample Results: CNCCV
Ch 1: Total Cyanide = 202.6618 ug/L
Known Conc = 200.0000 ug/L - %Diff from Known = 1.3309%
Test 1: Passed
Cup# 16 Sample: CNCCB Type: Blank Rep# 1/1
Ch 1: Total Cyanide = -2.0319 ug/L
DQM Sample Results: CNCCB
Ch 1: Total Cyanide
Determined Conc = -2.0319 ug/L
Test 1: CCB < 10.0 ug/L
*** End of DQM Set Auto 2 CCV/CCB - Set Passed ***
Cup# 11 Sample: 990802-03 D00066 500/250ml Type: Unknown Rep# 1/1
Ch 1: Total Cyanide = -2.0133 ug/L
Cup# 12 Sample: 990802-04 D00067 500/250ml Type: Unknown Rep# 1/1
Ch 1: Total Cyanide = -2.6669 ug/L
Cup# 13 Sample: 990802-13 D00076 500/250ml Type: Unknown Rep# 1/1
Ch 1: Total Cyanide = -2.6491 ug/L
*** Starting DQM Set PBW ***
Cup# 14 Sample: PBW2 091799 DIH2O 500/250ml Type: Blank Rep# 1/1
Ch 1: Total Cyanide = -3.0148 ug/L
DQM Sample Results: PBW
Ch 1: Total Cyanide
Determined Conc = -3.0148 ug/L
Test 1: PBW < 10.0 ug/L MRL
*** End of DQM Set PBW - Set Passed ***
*** Starting DQM Set Manual ICV ***
Cup# 15 Sample: CNICV2 091799 IS990915A 500/250ml Type: RelChkStd Rep# 1/1
Ch 1: Total Cyanide = 155.9881 ug/L
DQM Sample Results: CNICV
Ch 1: Total Cyanide = 155.9881 ug/L
Known Conc = 160.0000 ug/l - %Diff from Known = -2.5074%
Test 1: ICV within 15% limits
*** End of DQM Set Manual ICV - Set Passed ***
Cup# 16 Sample: 990802-18 D00081 500/250ml Type: Unknown Rep# 1/1
Ch 1: Total Cyanide = 35.5674 ug/L
Cup# 17 Sample: 990807-01 FB091099-01 500/250ml Type: Unknown Rep# 1/1
Ch 1: Total Cyanide = -2.4497 ug/L
Cup# 18 Sample: 990807-02 ER091099-01 500/250ml Type: Unknown Rep# 1/1
Ch 1: Total Cyanide = -2.1596 ug/L
Cup# 19 Sample: PBS 091799 RCN DIH2O Type: Unknown Rep# 1/1
Ch 1: Total Cyanide = -3.0148 ug/L
Cup# 20 Sample: QC1 (200 ug/L) RCN 091799 IW990917A Type: Unknown Rep# 1/1
Ch 1: Total Cyanide = 34.0816 ug/L
***** Auto DQM Begin *****
*** Starting DQM Set Auto 2 CCV/CCB ***
Cup# 15 Sample: CNCCV Type: RelChkStd Rep# 1/1 Repeat# 1
Ch 1: Total Cyanide = 201.1737 ug/L
DQM Sample Results: CNCCV
Ch 1: Total Cyanide = 201.1737 ug/L
Known Conc = 200.0000 ug/L - %Diff from Known = 0.5868%
Test 1: Passed
Cup# 16 Sample: CNCCB Type: Blank Rep# 1/1 Repeat# 1
Ch 1: Total Cyanide = -1.5520 ug/L
DQM Sample Results: CNCCB
Ch 1: Total Cyanide
Determined Conc = -1.5520 ug/L
Test 1: CCB < 10.0 ug/L
*** End of DQM Set Auto 2 CCV/CCB - Set Passed ***
Cup# 21 Sample: QC2 (200 ug/L) RCN 091799 IW990917A Type: Unknown Rep# 1/1
Ch 1: Total Cyanide = 31.6494 ug/L
Cup# 22 Sample: 990816-03 GN-D006703 10.24g/250ml Type: Unknown Rep# 1/1
Ch 1: Total Cyanide = -3.0148 ug/L
Cup# 23 Sample: 990816-03 dup GN-D006703 10.22g/250ml Type: Unknown Rep# 1/1
Ch 1: Total Cyanide = -3.0148 ug/L
***** Auto DQM Begin *****
*** Starting DQM Set Auto 2 CCV/CCB ***

Cup# 15 Sample: CNCCV Type: RelChkStd Rep# 1/1 Repeat# 2
Ch 1: Total Cyanide = 201.5144 ug/L
DQM Sample Results: CNCCV
Ch 1: Total Cyanide = 201.5144 ug/L
Known Conc = 200.0000 ug/L - %Diff from Known = 0.7572%
Test 1: Passed
Cup# 16 Sample: CNCCB Type: Blank Rep# 1/1 Repeat# 2
Ch 1: Total Cyanide = -1.7521 ug/L
DQM Sample Results: CNCCB
Ch 1 Total Cyanide
Determined Conc = -1.7521 ug/L
Test 1: CCB < 10.0 ug/L
*** End of DQM Set Auto 2 CCV/CCB - Set Passed ***
******* Tray Run Complete *******

JDM 9/16/99

Review: KY 9/17/99

Total Cyanide Analysis for Project #'s 330793 and 330802.

OPERATOR: jeff
ACQ. TIME: Sep 16, 1999 15:43:33
DATA FILENAME: G:\ALAM\OMNION\FIA_DATA\16SEP99B.FDT
METHOD FILENAME:
TRAY FILENAME: G:\ALAM\OMNION\TRAYS\16SEP99B.trs

Method - Ch. 1 [Total Cyanide]

METHOD DESCRIPTION:
Created: Oct 8, 1997 14:01:34
Modified: Sep 16, 1999 15:43:31
Total Cyanide Analysis Following Distillation using EPA Method 335.2 CLP-M 4.0 and SW846 Method 9010A 2/26/97.

ANALYTE DATA:
Analyte Name: Total Cyanide
Concentration Units: ug/L
Chemistry: Direct
Inject to Peak Start (s): 42.0
Peak Base Width (s): 19.500
% Width Tolerance: 100.000
Threshold: 3000.000
Autodilution Trigger: On
QuikChem Method: 10-204-00-1-A

802

CALIBRATION DATA:
Levels:
1 : 400.000 2 : 300.000 3 : 200.000 4 : 100.000
5 : 40.000 6 : 10.000 7 : 0.000
Calibration Rep Handling: Replace
Calibration Fit Type: 1st Order Poly
Force Though Zero: No
Weighting Method: None
Concentration Scaling: None

SAMPLER TIMING:
Method Cycle Period: 45.0
Min. Probe In Wash Period: 14.0
Probe In Sample Period: 20.0

*** Prep Sequence Not Enabled ***

VALVE TIMING:
Method Cycle Period: 45.0
Sample Reaches 1st Valve: 29.6
Valve: On
Load Time: 0.0
Load Period: 15.0
Inject Period: 30.0

Sample Information/Results: Ch. 1
Total Cyanide (Cup Range: 1 - 22)

Unknowns:

Cup: 6, Sample ID: 990802-07 D00070 5.19g/250ml, Sample Type: Unknown
ManDilFact: 0.5, AutDilFact: 1.0, Weight: 1.00000 g
Rep 1/1, Result: -0.342 ug/L

Cup: 7, Sample ID: 990802-08 D00071 5.27g/250ml, Sample Type: Unknown
ManDilFact: 0.5, AutDilFact: 1.0, Weight: 1.00000 g
Rep 1/1, Result: -0.823 ug/L

Cup: 9, Sample ID: 990799-10 102-MW-004-01 500/250ml, Sample Type: Unknown
ManDilFact: 0.5, AutDilFact: 1.0, Weight: 1.00000 g
Rep 1/1, Result: -1.014 ug/L

Cup: 10, Sample ID: 990799-11 102-MW-003-01 500/250ml, Sample Type: Unknown
ManDilFact: 0.5, AutDilFact: 1.0, Weight: 1.00000 g
Rep 1/1, Result: -1.014 ug/L

Cup: 11, Sample ID: 990799-16 100-MW-001-01 500/250ml, Sample Type: Unknown
ManDilFact: 0.5, AutDilFact: 1.0, Weight: 1.00000 g
Rep 1/1, Result: -1.014 ug/L

Cup: 12, Sample ID: 990799-17 100-MW-002-01 500/250ml, Sample Type: Unknown
ManDilFact: 0.5, AutDilFact: 1.0, Weight: 1.00000 g
Rep 1/1, Result: -1.014 ug/L

Cup: 13, Sample ID: 990799-18 100-MW-003-01 500/250ml, Sample Type: Unknown
ManDilFact: 0.5, AutDilFact: 1.0, Weight: 1.00000 g
Rep 1/1, Result: -1.014 ug/L

9/17/99

Sample Information/Results: Ch. 1
Total Cyanide (Cup Range: 23 - 44)

Unknowns:

Sample Information/Results: Ch. 1
Total Cyanide (Cup Range: 1 - 15)

DQM:

Cup: 1, Sample ID: CNICV1 091699 IS990915A 500/250ml, Sample Type: RelChkStd
ManDilFact: 0.5, AutDilFact: 1.0, Weight: 1.00000 g
Rep 1/1, Results: 73.970 ug/L
Known Conc: 80.000 ug/L, % Diff: -7.54%

Cup: 2, Sample ID: CNICB 091699 DIH2O, Sample Type: Blank
ManDilFact: 1.0, AutDilFact: 1.0, Weight: 1.00000 g
Rep 1/1, Known Conc: 0.0 ug/L
Determined Conc: -1.391 ug/L

Cup: 3, Sample ID: PBS1 091699 DIH2O 500/250ml, Sample Type: Blank
ManDilFact: 0.5, AutDilFact: 1.0, Weight: 1.00000 g
Rep 1/1, Known Conc: 0.0 ug/L
Determined Conc: -1.014 ug/L

Cup: 4, Sample ID: LCSS1 091699 IP990322A 0.25g/250ml, Sample Type: RelChkStd
ManDilFact: 0.5, AutDilFact: 1.0, Weight: 1.00000 g
Rep 1/1, Results: 82.423 ug/L
Known Conc: 80.000 ug/L, % Diff: 3.03%

Cup: 5, Sample ID: S 100 ug/L dist. 091699 IW990916A 500/250ml, Sample Type: RelChkStd
ManDilFact: 0.5, AutDilFact: 1.0, Weight: 1.00000 g
Rep 1/1, Results: 95.385 ug/L
Known Conc: 100.000 ug/L, % Diff: -4.61%

Cup: 8, Sample ID: PBW1 091699 DIH2O 500/250ml, Sample Type: Blank
ManDilFact: 0.5, AutDilFact: 1.0, Weight: 1.00000 g
Rep 1/1, Known Conc: 0.0 ug/L
Determined Conc: -1.014 ug/L

Cup: 15, Sample ID: CNCCV, Sample Type: RelChkStd
ManDilFact: 1.0, AutDilFact: 1.0, Weight: 1.00000 g
Rep 1/1, Results: 201.084 ug/L
Known Conc: 200.000 ug/L, % Diff: 0.54%

Cup: 15, Sample ID: CNCCV, Sample Type: RelChkStd
ManDilFact: 1.0, AutDilFact: 1.0, Weight: 1.00000 g
Rep 1/1, Results: 200.599 ug/L
Known Conc: 200.000 ug/L, % Diff: 0.30%

Sample Information/Results: Ch. 1
Total Cyanide (Cup Range: 16 - 30)

DQM:

Cup: 16, Sample ID: CNCCB, Sample Type: Blank
ManDilFact: 1.0, AutDilFact: 1.0, Weight: 1.00000 g
Rep 1/1, Known Conc: 0.0 ug/L
Determined Conc: -0.366 ug/L

Cup: 16, Sample ID: CNCCB, Sample Type: Blank
ManDilFact: 1.0, AutDilFact: 1.0, Weight: 1.00000 g
Rep 1/1, Known Conc: 0.0 ug/L
Determined Conc: -0.874 ug/L

Multi-Channel Table
Type: DOM
Channel Range: 1 to 8 - Cup Range: 1 to 35

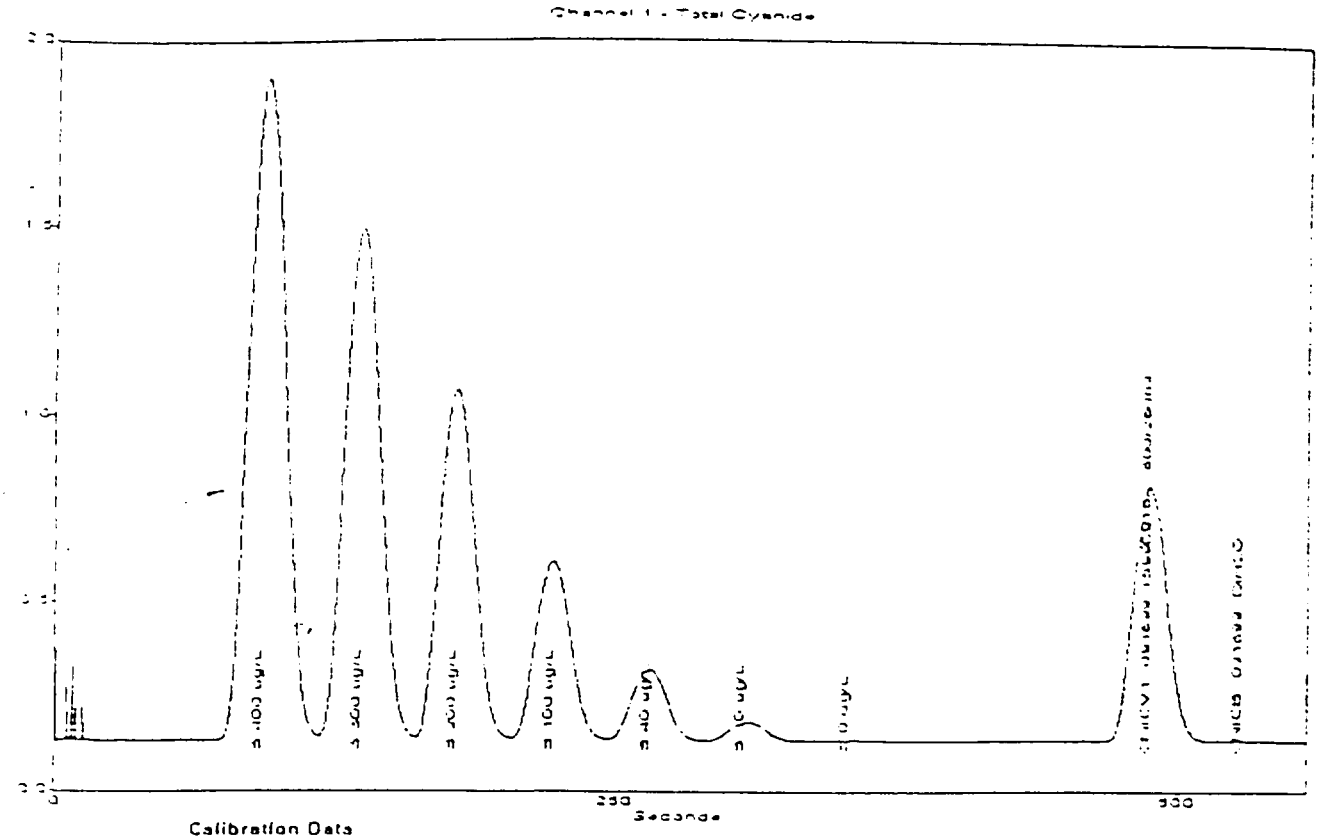
Cup	Sample ID	Sample Type	Sampling Date	Sampling Time	Rep #	Total Cyanide (ug/L)	Man Dil Factor	Auto Dil Factor
1	CNICV1 09	RelChkStd	16 Sep 99	15:50:10	1	11991335.000	0.5	1.00
				Known Concentration:		160.000		
				% Difference:		-7.537		
2	CNICB 001	Blank	16 Sep 99	15:50:54	1	50915.602	1.0	1.00
3	PBS1 0916	Blank	16 Sep 99	15:51:38	1	0.000	0.5	1.00
4	LCSS1 001	RelChkStd	16 Sep 99	15:52:23	1	13343078.000	0.5	1.00
				Known Concentration:		160.000		
				% Difference:		3.028		
5	S 100 ug/L	RelChkStd	16 Sep 99	15:53:07	1	15416033.000	0.5	1.00
				Known Concentration:		200.000		
				% Difference:		-4.615		
8	PBW1 0916	Blank	16 Sep 99	15:55:24	1	0.000	0.5	1.00
15	CNCCV	RelChkStd	16 Sep 99	15:57:41	1	16240648.000	1.0	1.00
				Known Concentration:		200.000		
				% Difference:		0.542		
15	CNCCV	RelChkStd	16 Sep 99	16:03:00	1	16201883.000	1.0	1.00
				Known Concentration:		200.000		
				% Difference:		0.299		
16	CNCCB	Blank	16 Sep 99	15:58:26	1	132992.547	1.0	1.00
16	CNCCB	Blank	16 Sep 99	16:03:45	1	92280.905	1.0	1.00

Multi-Channel Table
Type: Unknowns
Channel Range: 1 to 8 – Cup Range: 1 to 50

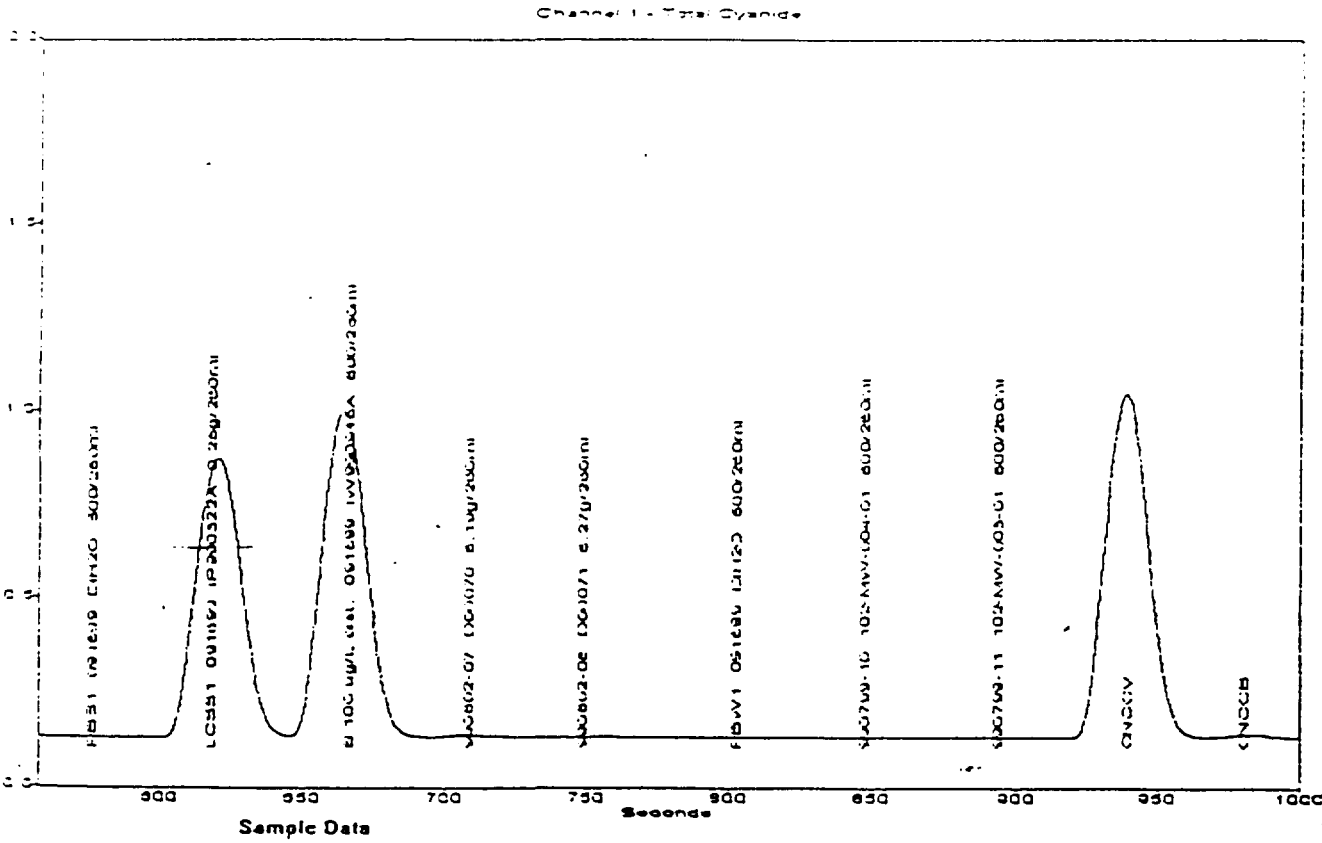
Cup	Sample ID	Sampling Date	Sampling Time	Rep #	Total Cyanide (uv-s)	Man Dil Factor	Auto Dil Factor
6	990802-07 D	16 Sep 99	15:53:53	1	107468.148	0.5	1.00
7	990802-08 D	16 Sep 99	15:54:39	1	30583.951	0.5	1.00
9	990799-10 1	16 Sep 99	15:56:09	1	0.000	0.5	1.00
10	990799-11 1	16 Sep 99	15:56:55	1	0.000	0.5	1.00
11	990799-16 1	16 Sep 99	15:59:11	1	0.000	0.5	1.00
12	990799-17 1	16 Sep 99	15:59:56	1	0.000	0.5	1.00
13	990799-18 1	16 Sep 99	16:00:41	1	0.000	0.5	1.00

Multi-Channel Table
Type: Calibration Standards
Channel Range: 1 to 8 – Cup Range: 1 to 100

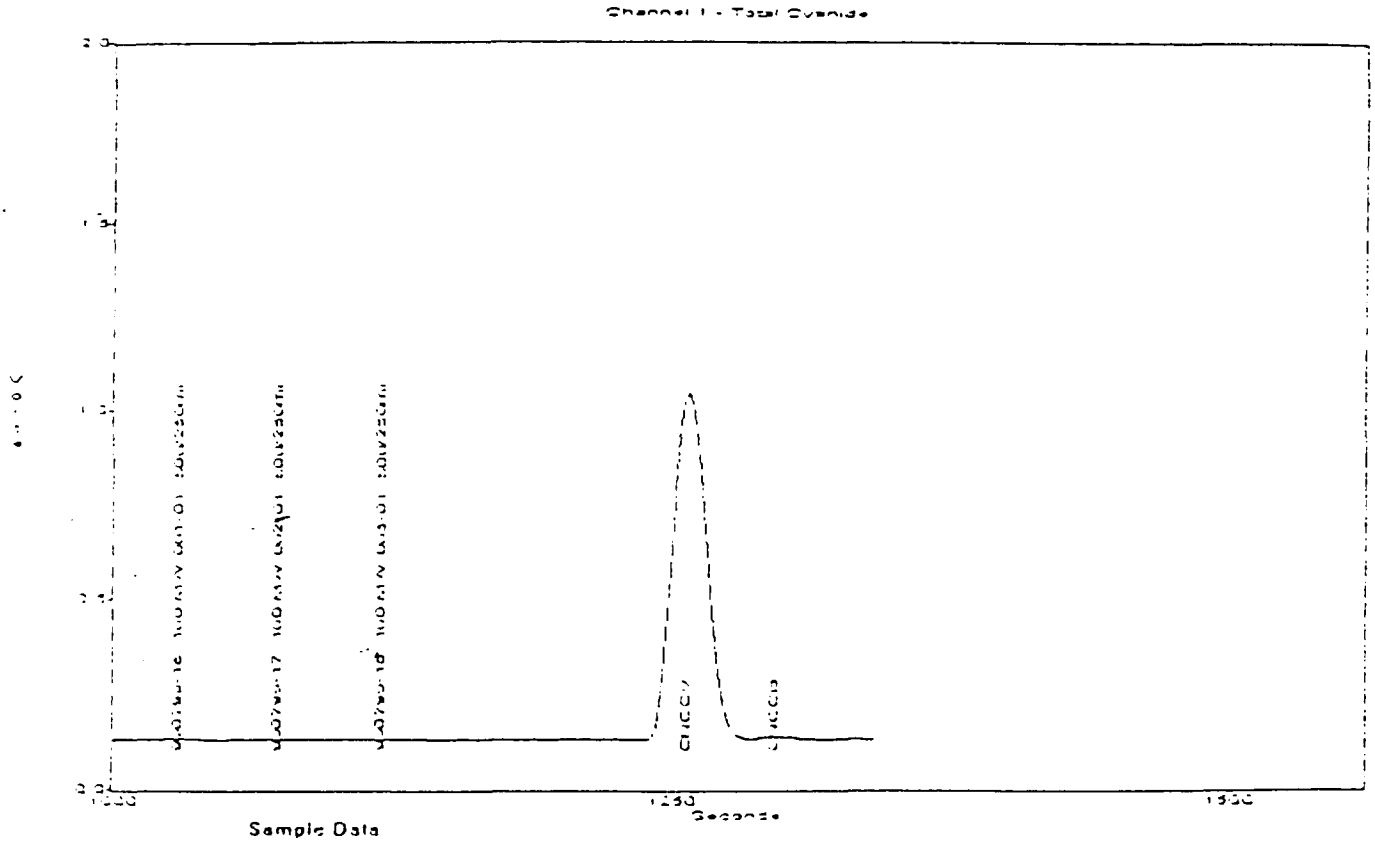
Cup	Sample ID	Sampling Date	Sampling Time	Rep #	Total Cyanide (uv-s)	Man Dil Factor	Auto Dil Factor
1	S 400 ug/L	16 Sep 99	15:43:36	1	31994904.000	1.0	1.00
2	S 300 ug/L	16 Sep 99	15:44:18	1	24141614.000	1.0	1.00
3	S 200 ug/L	16 Sep 99	15:45:01	1	16411003.000	1.0	1.00
4	S 100 ug/L	16 Sep 99	15:45:44	1	8284989.000	1.0	1.00
5	S 40 ug/L	16 Sep 99	15:46:27	1	3311012.000	1.0	1.00
6	S 10 ug/L	16 Sep 99	15:47:11	1	883062.750	1.0	1.00
7	S 0 ug/L	16 Sep 99	15:47:56	1	66718.852	1.0	1.00



Calibration Data



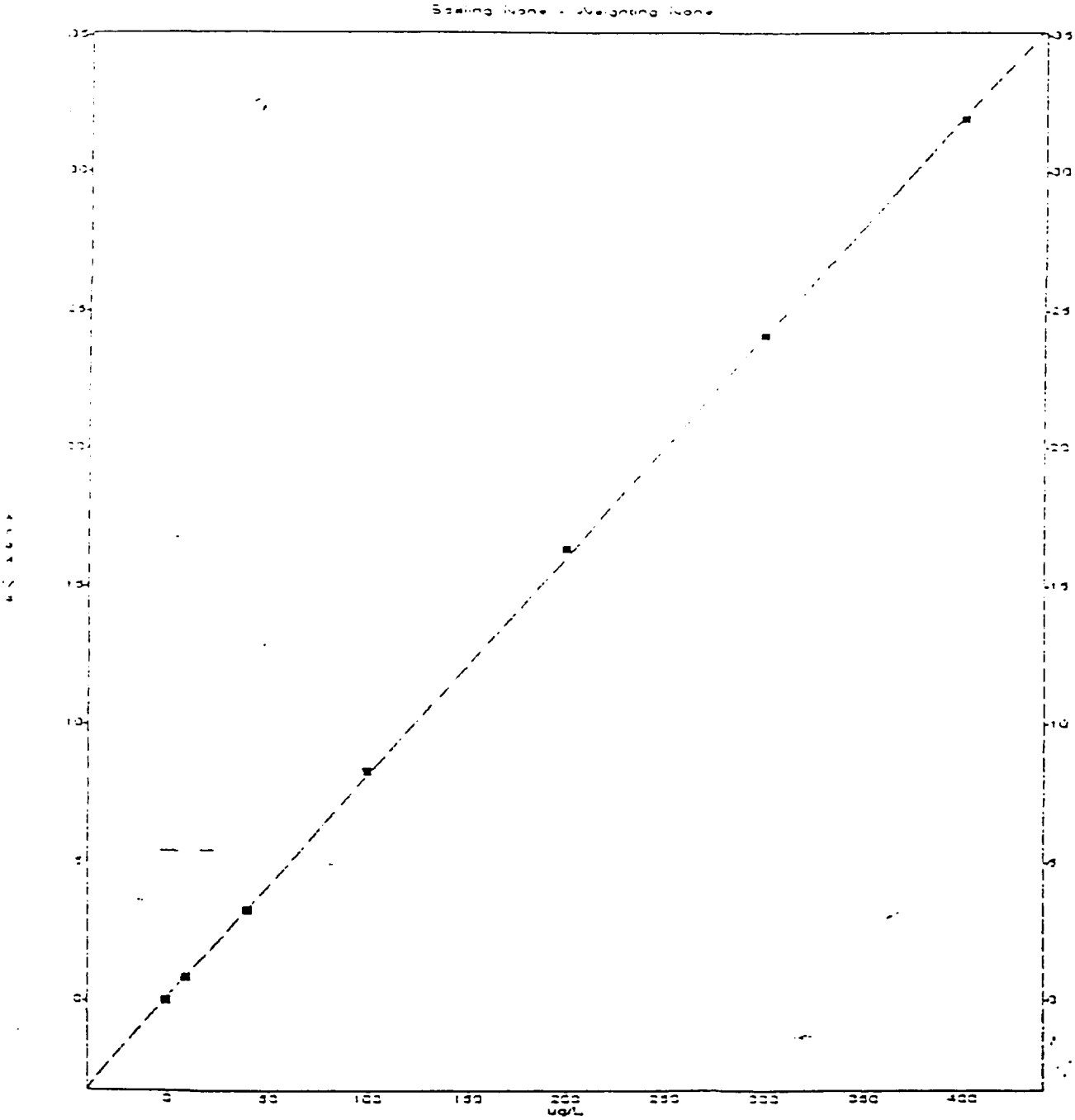
Sample Data


Sample Data

Total Cyanide

Lvl	Area	ug/L	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Replic STD	Replic % RSD	Residual 1st Poly
1	31994504	400	31994504					0.0	0.0	0.5
2	24141514	300	24141514					0.0	0.0	0.0
3	16411033	200	16411033					0.0	0.0	-1.6
4	8284369	100	8284369					0.0	0.0	-1.6
5	3311012	40	3311012					0.0	0.0	1.5
6	833353	10	833353					0.0	0.0	5.5
7	83719	0	83719					0.0	0.0	

1st Order Poly
Conc = 1.251e-005 Area - 2.026e+000
r² = 0.9999



1690

Printed: Thursday, September 16, 1999 - 04:01 PM

INSTRUMENT: FIA
TRAY: 16SEP99B.TRA METHOD: TCNCLP40.MET DATAFILE: 16SEP99B.FDT
DATE/TIME: Thu Sep 16 15:43:34 1999 OPERATOR: jeff
Total Cyanide Analysis for Project #'s 990802 and 990799.

*** Begin Calibration ***
Cup# 1 Sample: S 400 ug/L Type: CalStd Level: 1 Rep# 1/1
Ch 1: Total Cyanide Peak Area = 31994904.0 µv-s
Cup# 2 Sample: S 300 ug/L Type: CalStd Level: 2 Rep# 1/1
Ch 1: Total Cyanide Peak Area = 24141614.0 µv-s
Cup# 3 Sample: S 200 ug/L Type: CalStd Level: 3 Rep# 1/1
Ch 1: Total Cyanide Peak Area = 16411003.0 µv-s
Cup# 4 Sample: S 100 ug/L Type: CalStd Level: 4 Rep# 1/1
Ch 1: Total Cyanide Peak Area = 8284989.0 µv-s
Cup# 5 Sample: S 40 ug/L Type: CalStd Level: 5 Rep# 1/1
Ch 1: Total Cyanide Peak Area = 3311012.0 µv-s
Cup# 6 Sample: S 10 ug/L Type: CalStd Level: 6 Rep# 1/1
Ch 1: Total Cyanide Peak Area = 883052.8 µv-s
Cup# 7 Sample: S 0 ug/L Type: CalStd Level: 7 Rep# 1/1
Ch 1: Total Cyanide Peak Area = 65718.9 µv-s
*** Updated Calibration ***
Ch 1: Total Cyanide
** 1st Order Poly Calibration **
C[0] = 1.25064e-005
C[1] = -2.02815
R^2 = 0.9999
*** End Calibration Block ***
*** Calibration Passed ***
*** Starting DQM Set Manual ICV ***
Cup# 1 Sample: CNICV1 091699 IS990915A 500/250ml Type: RelChkStd Rep# 1/1
Ch 1: Total Cyanide = 147.9401 ug/L
DQM Sample Results: CNICV
Ch 1: Total Cyanide = 147.9401 ug/L
Known Conc = 160.0000 ug/l - %Diff from Known = -7.5374%
Test 1: ICV within 15% limits
*** End of DQM Set Manual ICV - Set Passed ***
*** Starting DQM Set Manual ICB ***
Cup# 2 Sample: CNICB 091699 DIH2O Type: Blank Rep# 1/1
Ch 1: Total Cyanide = -1.3914 ug/L
DQM Sample Results: CNICB
Ch 1: Total Cyanide
Determined Conc = -1.3914 ug/L
Test 1: ICB <10 ug/L
*** End of DQM Set Manual ICB - Set Passed ***
*** Starting DQM Set PBS ***
Cup# 3 Sample: PBS1 091699 DIH2O 500/250ml Type: Blank Rep# 1/1
Ch 1: Total Cyanide = -2.0281 ug/L
DQM Sample Results: PBS
Ch 1: Total Cyanide
Determined Conc = -2.0281 ug/L
Test 1: PBS < 10.0 ug/L MRL
*** End of DQM Set PBS - Set Passed ***
*** Starting DQM Set LCSS ***
Cup# 4 Sample: LCSS1 091699 IP990322A 0.25g/250ml Type: RelChkStd Rep# 1/1
Ch 1: Total Cyanide = 164.8455 ug/L
DQM Sample Results: LCSS
Ch 1: Total Cyanide = 164.8455 ug/L
Known Conc = 160.0000 ug/L - %Diff from Known = 3.0285%
Test 1: LCSS within limits
*** End of DQM Set LCSS - Set Passed ***
*** Starting DQM Set S 100 ug/L dist. ***
Cup# 5 Sample: S 100 ug/L dist. 091699 IW990916A 500/250ml Type: RelChkStd Rep# 1/1
Ch 1: Total Cyanide = 190.7707 ug/L
DQM Sample Results: S 100 ug/L dist.
Ch 1: Total Cyanide = 190.7707 ug/L
Known Conc = 200.0000 ug/L - %Diff from Known = -4.6147%
Test 1: S 100 ug/L dist. within limits
*** End of DQM Set S 100 ug/L dist. - Set Passed ***
Cup# 6 Sample: 990802-07 D00070 5.19g/250ml Type: Unknown Rep# 1/1
Ch 1: Total Cyanide = -0.6841 ug/L
Cup# 7 Sample: 990802-08 D00071 5.27g/250ml Type: Unknown Rep# 1/1

```
 Ch 1: Total Cyanide  = -1.6457 ug/L
*** Starting DQM Set PBW ***
Cup# 8  Sample: PBW1  091699  DIH2O  500/250ml  Type: Blank  Rep# 1/1
 Ch 1: Total Cyanide  = -2.0281 ug/L
DQM Sample Results: PBW
 Ch 1: Total Cyanide
  Determined Conc = -2.0281 ug/L
    Test 1: PBW < 10.0 ug/L MRL
*** End of DQM Set PBW - Set Passed ***
Cup# 9  Sample: 990799-10  102-MW-004-01  500/250ml  Type: Unknown  Rep# 1/1
 Ch 1: Total Cyanide  = -2.0281 ug/L
Cup# 10  Sample: 990799-11  102-MW-003-01  500/250ml  Type: Unknown  Rep# 1/1
 Ch 1: Total Cyanide  = -2.0281 ug/L
***** Auto DQM Begin *****
*** Starting DQM Set Auto 2 CCV/CCB ***
Cup# 15  Sample: CNCCV  Type: RelChkStd  Rep# 1/1
 Ch 1: Total Cyanide  = 201.0836 ug/L
DQM Sample Results: CNCCV
 Ch 1: Total Cyanide  = 201.0836 ug/L
   Known Conc = 200.0000 ug/L - %Diff from Known = 0.5418%
    Test 1: Passed
Cup# 16  Sample: CNCCB  Type: Blank  Rep# 1/1
 Ch 1: Total Cyanide  = -0.3661 ug/L
DQM Sample Results: CNCCB
 Ch 1: Total Cyanide
   Determined Conc = -0.3661 ug/L
    Test 1: CCB < 10.0 ug/L
*** End of DQM Set Auto 2 CCV/CCB - Set Passed ***
Cup# 11  Sample: 990799-16  100-MW-001-01  500/250ml  Type: Unknown  Rep# 1/1
 Ch 1: Total Cyanide  = -2.0281 ug/L
Cup# 12  Sample: 990799-17  100-MW-002-01  500/250ml  Type: Unknown  Rep# 1/1
 Ch 1: Total Cyanide  = -2.0281 ug/L
Cup# 13  Sample: 990799-18  100-MW-003-01  500/250ml  Type: Unknown  Rep# 1/1
 Ch 1: Total Cyanide  = -2.0281 ug/L
***** Auto DQM Begin *****
*** Starting DQM Set Auto 2 CCV/CCB ***
Cup# 15  Sample: CNCCV  Type: RelChkStd  Rep# 1/1  Repeat# 1
 Ch 1: Total Cyanide  = 200.5988 ug/L
DQM Sample Results: CNCCV
 Ch 1: Total Cyanide  = 200.5988 ug/L
   Known Conc = 200.0000 ug/L - %Diff from Known = 0.2994%
    Test 1: Passed
Cup# 16  Sample: CNCCB  Type: Blank  Rep# 1/1  Repeat# 1
 Ch 1: Total Cyanide  = -0.8740 ug/L
DQM Sample Results: CNCCB
 Ch 1: Total Cyanide
   Determined Conc = -0.8740 ug/L
    Test 1: CCB < 10.0 ug/L
*** End of DQM Set Auto 2 CCV/CCB - Set Passed ***
******* Tray Run Complete *******
```

Ceimic Corporation
Metals Laboratory
Metals Preparation Logbook

Date: [illegible]

Review: [illegible]
Analyst: [illegible]

Ceimic ID	Client ID	Prep LCS ID	Type	pH	Sample Wt/Vol	Spike ID	Final Vol	Color Before/After	Clarity Before/After	Texture	Artifacts & Comments
[illegible]	[illegible]	—	[illegible]	—	—	—	[illegible]	— / —	— / —	—	—
[illegible]	[illegible]	[illegible]		—	—			— / —	— / —		
[illegible]	[illegible]	—		<2	[illegible]			[illegible]	[illegible]		
[illegible]	60							/	/		
[illegible]	64							/	/		
-02	65							/	/		
-03	66							/	/		
-04	67							/	/		
-05	72							/	/		
[illegible]	72							/	/		
[illegible]	72							/	/		
-08	73							/	/		
-09	74							/	/		
-10	75							/	/		
-11	76							/	/		
-12	54							/	/		
-13								/	/		
-21								/	/		
[illegible]	#862			—	—		200 mL	— / —	— / —		
[illegible]	#862	[illegible]			[illegible]			— / —	— / —		

Color = red, blue, yellow, green, orange, violet, white, brown, grey, black, colorless
Clarity = clear, cloudy, opaque
Texture = fine (powder), medium (sand), coarse (large crystals or rocks)
Comments = artifacts and changes (ex. emulsion formation)
LCS ID includes volume taken and Ceimic ID

Pipette ID: [illegible]
1000 µl = [illegible]
400 µl = [illegible]
Acid Lot #(s): [illegible]
H_2O_2 Lot #: [illegible]

Prep type ICAP (I) or Zeeman (Z)
pH = <2 or >2 for waters
Spike ID = includes volume taken and Ceimic ID
Spike Witness: [illegible]

QAT0037

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Ceimic Corporation
Metals Laboratory
Metals Preparation Logbook

Date: 10/01/99

Review: Ba 10/02/99
Analyst: [illegible]

Ceimic ID	Client ID	Prep LCS ID	Type	pH	Sample Wt/Vol	Spike ID	Final Vol	Color Before/After	Clarity Before/After	Texture	Artifacts & Comments
990532-05	DIC 68	-	I	-	1.17g	-	200mL	brn / yel	cl / cl	med.	-
-05Dup	68							/	/		
-05Spk	68							/	/		
-06	69				1.09g	-		/	/		
-07	70				1.03g			/	/		
-08	71				1.00g			/	/		
-09	80				1.05g			/	/		
100 TBS	#534, 652, 509				-		50mL	- / -	/	-	
100 LCSS	#534, 652, 509	M990630A			0.50g			- / -	/	-	
100 SRM	#534, 652, 509	940331			1.00g			brn / yel	/	med.	
990534-02	ASTI6MA	-			7.97g			/	/		
-03	ASTI7MA				7.22g			/	/		
990652-02	ASTI2MA				7.17g			/	/		
-02MS								/	/		
-02MSD								/	/		
-03	ASTI1MA				7.10g	-		/	/		
-04	AST 32MA				7.38g			/	/		
990 [illegible]-01	DIS CU AIA				7.13g			/	/		

Color = red, blue, yellow, green, orange, violet, white, brown, grey, black, colorless
Clarity = clear, cloudy, opaque
Texture = fine (powder), medium (sand), coarse (large crystals or rocks)
Comments = artifacts and changes (ex. emulsion formation)
LCS ID includes volume taken and Ceimic ID

Pipette ID: P4
1000 µl = 100 µl (1.0047g)
400 µl = 400 µl (0.4000g)
Acid Lot #(s): X
H_2O Lot #: 2P990127A
1:1 HNO_3 - M2990917A
1:1 HCl - M2990714A
conc HNO_3 - R990[illegible]C5
conc HCl - 2990523A

Prep type ICAP (I) or Zeeman (Z)
pH = <2 or ≥2 for waters
Spike ID = includes volume taken and Ceimic ID
Spike Witness: [illegible]

QA11037

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Ceimic Corporation

Metals Laboratory

PS 200 Mercury Analysis Logbook → 738, 755, 790, 758, 802

Folder: HG071SA Analyst: TY

Date: 9/15/99 Case(s): Review: KK 9/16/99

CUP ID	SAMPLE ID	DIL FACT	CUP ID	SAMPLE ID	DIL FACT
S1	0	1.27	RACK 18	990102-01	1.26
S2	0.1 → 0.08000	1.25	19	-01 Dup	1.26
S3	0.5 → 0.40000	1.25	20	-01 Spk	1.25
S4	1.0 → 0.80000	1.25	21	-02	1.27
S5	5.0 → 4.0000	1.25	22	-03	1.26
S6	10.0 → 8.0000	1.25	23	-04	1.27
CK 1/ICB	0	1.28	24	-09	1.27
CK 2/ICV	2.5 → 2.0000	1.25	25	-09 Dup	1.27
CK 3/CRA	0.2 → 0.16000	1.25	26	-09 Spk	1.29
CK 4/CCB	0	1.28	27	-10	1.28
CK 5/CCV	5.0 → 4.0000	1.25	28	-11	1.27
RACK 1 HG071SA	0915 PBW, # 790, 758, 755, 755	1.27	29	-12	1.28
2	0915 TCLP CRA .7	1.27	30	-13	1.28
3	TCLP 0915 738-08	1.28	31		
4	-09	1.27	32		
5	990755-01	1.25	33		
6	-02	1.27	34		
7	-02 MS	1.26	35		
8	-02 MSD	1.28	36		
9	-02 PS	—	37		
10	-03	1.26	38		
11	-05	1.26	39		
12	990790-07	1.27	40		
13	-08	1.27	41		
14	D990790-07	1.27	42		
15	-08	1.28	43		
16	990758-12	1.28	44		
17	0915 PBW₂ # 802	1.27			

TY 9/15/99

10% $SnCl_2$: MR990909A

10% HCl: MR990816B

1695

QAT0036

Page # 103

cHg + 3W9408A2 Predited

Ceimic Corporation
Metals Laboratory
Mercury Digestion Log

Analyst: TM Date: 9/15/99 Check: DS 9/16/99

BOD #	Lab ID	Client ID	Sample vol/wt	pH	Reagent ID and vol. added (ml) H_2SO_4 (R9902 30A2)	HNO_3 (R9906 01C3)	$KMnO_4$* (MR9909 15A)	$K_2S_2O_8$ (MR9909 15B)	Spike Witness
So	So	DiHW	100ml	-	5.0ml	2.5ml	15.0ml	8.2ml	-
So.1	So.1	MW990915A	0.1ml						
So.2	So.2/CRA		0.2ml						
So.5	So.5		0.5ml						
S1.0	S1.0		1.0ml						
S5.0	S5.0		5.0ml						
S10.0	S10.0		10.0ml						
IW	IW(2.5)	MW990820A	0.5ml						
CW	CW(5.0)		1.0ml						
LB	LB/CCB	DiHW	100ml						
11	0915PBW1	#738, 755, 770, 758							
CRA	0915TEKRA	+.9ml MW990915A							
148	TK990738-08	TANK2(COMP)		<2					
152	-09	TANK1							
156	990755-01	PE2303712							
159	-02	PE2303812							
160	-02MS	+1.0ml MW990915A							BS
163	-02MSD								BS
164	-03	PE2304014							-
166	-05	PE2331809							
170	990790-07	LOCATION#1-090259							
176	-08	LOCATION#3-090219							
181	990790-17	LOCATION#1-090259							
188	-08	LOCATION#3-090219							
266	990758-12	DC012							
269	0915PBW2	#802		-					
315	990802-01	DC0064		<2					
321	-01Dup								

*Use star to indicate if extra $KMnO_4$ was required. Add $KMnO_4$ to all bottles. H_2O Temp: 21.5°C

Comments: Bath Temp: 95.0°C
Samples in: 7:00 (19.N)
Samples out: 9:00 (21.N)
Hg Decolorizer: MR990831B

F3
5.0ml = 5.0 (5.0551g)

P1
100ml = 100.0 (0.1000g)

Pipette ID: P4 1696
Vol.: 1000ml = 1002 (0.9989g)
500ml = 501 (0.5007g)
200ml = 200 (0.2005g)
900ml = 902 (0.9012g)

QAT0035

Page # 000 48

cl 876 Aa
Swf876
Recbl

Ceimic Corporation
Metals Laboratory
Mercury Digestion Log

Analyst: TY Date: 9/15/99 Check: DA 9/16/99

BOD #	Lab ID	Client ID	Sample vol/wt	pH	Reagent ID and vol. added (ml) H_2SO_4 (MR9073W2)	HNO_3 (R9900413)	$KMnO_4$* (MR9907157)	$K_2S_2O_8$ (MR9909151B)	Spike Witness
323	990802-015	pC +1.0mL MR9909	91.5mL	<2	5.0mL	2.5mL	15.0mL	8.0mL	BS
336	-02	D00065							
387	-03	D00066							
390	-04	D00067							
391	-09	D00072							
393	-09 Dup								
396	-09 Spk	+1.0mL MR9909151B							BS
404	-10	D00073							
405	-11	D00074							
409	-12	D00075							
424	-13	D00076							

TY 9/15/99

*Use star to indicate if extra $KMnO_4$ was required. Add $KMnO_4$ to all bottles.

Comments: Bath Temp: 95.0°C
Samples in: 7:00 (19:00)
Samples out: 9:00 (21:00)
Hg Decl. Lot: MR9908318
Hood Temp: 21.5°C

Pipette ID: P4 1697
Vol.: 100mL=100.2 (0.9987g)

QAT0035

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Ceimic Corporation
Metals Laboratory
PS 200 Mercury Analysis Logbook

Date: 9/22/99

Folder: HG 07226 Analyst: TY
Case(s): 758, 802 Review: [illegible] 9/23/99

CUP ID	SAMPLE ID	DIL FACT	CUP ID	SAMPLE ID	DIL FACT
S1	0		KRCK1 18	990802-05 spk	
S2	0.2		19	-06	
S3	0.5		20	-07	
S4	1.0		21	-08	
S5	5.0		22		
S6	10.0		23		
CK 1/ICB	0		24		
CK 2/ICV	2.5		25		
CK 3/CRA	0.2		26		
CK 4/CCB	0		27		
CK 5/CCV	5.0		28		
KRCK1 HG0920A	PBS # 758, 802		29		
2	LCSS # 758, 802		30		
3	990758-01		31		
4	-02		32		
5	-03		33		
6	-04		34		
7	-05		35		
8	-06		36		
9	-07		37		
10	-08		38		
11	-08 D up		39		
12	-08 spk		40		
13	-09		41		
14	-10		42		
15	-11		43		
16	990802-05		44		
17	-05 up				

9/22/99

1698

10% $SnCl_2$: MR990909A
10% HCl: MR990921C

QAT0036

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CLP soil

Ceimic Corporation
Metals Laboratory
Mercury Digestion Log

Analyst: TY Date: 9/22/99 Check: DS 9/23/99

BOD #	Lab ID	Client ID	Sample vol/wt	pH	Reagent ID and vol. added (ml) RF0730A4 H_2SO_4	RF0605C3 HNO_3	MR990715A $KMnO_4$*	MR990915B $K_2S_2O_8$	Spike Witness
S0	S0	—	—		5.0 ml	2.5 ml	15.0 ml	8.0 ml	—
S0.2	S0.2/CRA	MIV990715A	0.2 ml						
S0.5	S0.5		0.5 ml						
S1.0	S1.0		1.0 ml						
S5.0	S5.0		5.0 ml						
S10.0	S10.0		10.0 ml						
IW	IW(2.5)	MW990800A	0.5 ml						
CW	CCV(2.5)		1.0 ml						
ICB	ICB/CCB	—	0						
11	0922FBS,	#758,802	—						
LCSS	0922LCSS,	#757,802	0.20g						
148	990758-01	D00001	0.23						
152	-02	D00002	0.20						
156	-03	D00003	0.20						
159	-04	D00004	0.22						
160	-05	D00005	0.22						
163	-06	D00006	0.25						
164	-07	D00007	0.24						
166	-08	D00008	0.20						
176	-08Dup								
176	-08Spk	+1.0 ml MW990715A							ES
181	-09	D00009	0.22						—
188	-10	D00010	0.21						
266	-11	D00011	0.21						
269	990802-05	D00068	0.22						
315	-05Dup								
24	-05Spk	+1.0 ml MW990715A							ES
323	-06	D00069	0.23						—

*Use star to indicate if extra $KMnO_4$ was required. Add $KMnO_4$ to all bottles. H_2O Temp. 20.7°C

Comments: Bath Temp: 94.0°C
Samples in: 19:00
Samples out: 19:30
Hg Deodorizer: MR990831B

F3
5 ml = 5.00 (5.0033g)

Pipette ID: P4
Vol: 1000 ml = 100 (1.0010g)
500 ml = 50 (0.5005g)
200 ml = 20 (0.200 g)

QAT0035

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clp soil

Ceimic Corporation
Metals Laboratory
Mercury Digestion Log

Analyst: YY

Date: 9/22/99

Check: DH 9/23/99

BOD #	Lab ID	Client ID	Sample vol/wt	pH	Reagent ID and vol. added (ml) H_2SO_4 (R9907304)	HNO_3 (IC9906IC3)	$KMnO_4$* (MR9909151A)	$K_2S_2O_8$ (MR9907183)	Spike Witness
336	990802-07	D00070	0.23g	✓	5.0mL	2.5mL	15.0mL	5.0mL	✓
337	↓ -08	D00071	0.22g	↓	↓	↓	↓	↓	↓

*Use star to indicate if extra $KMnO_4$ was required. Add $KMnO_4$ to all bottles.

Comments: Bath Temp: 94.0°C
Samples in: 19:00
Samples out: 19:30
Hg Digestion: MR9908318

YY 9/22/99

Pipette ID: 170
Vol.:

QAT0035

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Date: 9/16/99
Method/Channel Total Cyanide/2
Rack #: 1
Analyst: JDM

Ceimic Corporation
Classical Chemistry Laboratory
Lachat Quikchem 8000 Run Logbook

Method File: TCNCLP40
Tray File: 16SEP99a
DQM File: TCNCLP40
Data File: 16SEP99a

Sample ID	Cup #	Sample ID	Cup #	Sample ID	Cup #	Sample ID	Cup #	Sample ID	Cup #	Sample ID	Cup #
ICV2 091599	15		30		45		60		75		90
PBS2 091599	14	9/16/99	29		44		59		74		89
-06	13	JDM	28		43		58		73		88
-05 dup	12		27		42	9/16/99	57		72		87
-05 spk	11		26		41	JDM	56		71		86
-05	10	-06	25		40		55		70		85
-04	9	-05 dup	24		39		54		69		84
-03	8	-05 spk	23		38		53		68		83
-02	7	990802-05	22		37		52		67		82
990799-01	6	-14	21		36		51		66		81
S100 ug/L 091599	5	-13	20		35		50		65		80
IS LCSS, 091599	4	-12	19		34		49		64		79
PBS, 091599	3	-08	18		33		48		63		78
ICB 091699	2	990799-07	17		32		47		62		77
ICV, 091599	1	LCSS2 091599	16		31		46		61		76

Cal Stds:
Cup 1 : 400 ug/L
Cup 2 : 300
Cup 3 : 200
Cup 4 : 100
Cup 5 : 40
Cup 6 : 10
Cup 7 : 0
Cup 8 : —
CCV (Cup 15) : 200 ug/L
CCB (Cup 16) : NH2O

(2ml of 10ppm in 100ml with 20ml, 1.25N NaOH)

Reagents & Source: cal. std: IW990916A
ICV: IS990915A CCV: IS990915B
carrier: IS990823A buffer: IS990823B
color reagent: IS990823C chloramine T: IW990916B

Review: ~~DJ 9/16/99~~

see CN distillation logbook for IDs, weights, and volumes,

400 ug/L - 8ml of 5ppm in 100ml
300 - 6ml of 5ppm in 100ml
200 - 4ml of 5ppm in 100ml
100 - 2ml of 5ppm in 100ml
40 - 10ml of 400ug/L in 100ml
10 - 10ml of 400ug/L in 100ml
include 20ml, 1.25N NaOH

NaOH: IS990915A

QAT0134

1701

000094

Page #:

Ceimic Corporation
Classical Chemistry Laboratory
Cyanide Distillation Logbook

CLP

Analyst: AS

Date	#	Ceimic ID	Client ID	Sample wt/vol	Final vol	Sample pH	Chlorine check	Sulfide check 9010A	Sulfide check CLP 4.0
9.15.99	1	PBS, 091599	DIH2O	500	250	NA	NA	NA	NA
	2	ICV, 091599	5mL of IS990915A	500					
	3	LCSS, 091599	IP990322A	0.25g/500					
	4	S100 091599	10mL of 5ppm	500					
	5	990799-01	102-SS-02	5.19g/500					—
	6	-02	102-SS-01	5.20g/500					—
	7	-03	102-SU-01	5.27g/500					—
	8	-04	100-SS-02	5.12g/500					—
	9	-05	100-SS-01	5.17g/500					—
	10	-05spk	plus 10mL of 5ppm 100-SS-01	5.24g/500					—
	11	-05dup	100-SS-01	5.13g/500					—
	12	-06	100-22-DN	5.13g/500					—
	1	PBS2 091599	DIH2O	500	250				NA
	2	ICV2 091599	5mL of IS990915A	500					
	3	LCSS2 091599	IP990322A	0.25g/500					
	4	990799-07	100-SS-03	5.31/500					—
	5	-08	100-SS-04	5.19/500					—
	6	-12	102-SS-05	5.20/500					—
	7	-13	102-SS-03	5.36/500					—
	8	-14	102-SS04	5.24/500					—
	9	990802-05	D00068	5.13/500					—
	10	-05spk	plus 10mL of 5ppm D00068	5.10/500					—
	11	-05dup	D00068	5.18/500					—
	12	-06	D00069	5.19/500					—

NaOH: IS990915C
H_2SO_4: R990730A2
Sulfamic Acid: ~~Aldrich 8170mg~~ 9.15.99 AS
$MgCl_2$: IS990825B
$CdCO_3$: ——
$BiNO_3$: ——
Review: KW 11/16/99

If residual chlorine is present: add ascorbic acid
If sulfide is present in the sample: add $BiNO_3$ prior to distillation (9010A)
If sulfide is present in the distillate: add $CdCO_3$ to distillate (CLP4.0)

5ppm = IW990915A

Set 1 — Start 11:20 — end 12:40
Set 2 — start 3:20 — end 4:40

QAT0033

Ceimic Corporation
Classical Chemistry Laboratory
Cyanide Distillation Logbook

CLP

Analyst: AS

Date	#	Ceimic ID	Client ID	Sample wt/vol	Final vol	Sample pH	Chlorine check	Sulfide check 9010A	Sulfide check CLP 4.0
91799	1	PBW, 091799	DIH2O	500	250	NA	NA	NA	NA
	2	ICV, 091799	5mL of IS9909154	500		↓	↓		↓
	3	S100 091799	AS9909 10mL 15ppm	500		↓	↓		↓
	4	9909799-19	100-MW-DA-01	500		12	—		—
	5	-20	100-MW-009-01	500		12	—		—
	6	991802-01	D00064	500		12	—		—
	7	-01spk	5mL of 5ppm D00064	500		12	—		—
	8	-01dup	D00064	500		12	—		—
	9	-02	D00065	500		12	—		—
	10	-03	D00066	500		12	—		—
	11	-04	D00067	500		12	—		—
	12	-13	D00076	500		12	—		—
	1	PBW, 091799	DIH2O	500		NA	NA		NA
	2	ICV, 091799	5mL of IS9909154	500		↓	↓		↓
	3	990802-13	D00091	500		NA	↓		↓
	4	990807-01	FB091099-01	500		12	—		—
↓	5	-02	ER091099-01	500	↓	12	—	✓	—

AS 9.17.99

NaOH: IS9909116A
H_2SO_4: R990730A4
Sulfamic Acid: ——

$MgCl_2$: IS990915E
$CdCO_3$: ——
$BiNO_3$: ——

Review: DA 9/20/11

If residual chlorine is present: add ascorbic acid
If sulfide is present in the sample: add $BiNO_3$ prior to distillation (9010A)
If sulfide is present in the distillate: add $CdCO_3$ to distillate (CLP4.0)

5ppm = IW990917A 1703

QAT0033

start 1:30
end ~2:50

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Date: 9/17/99
Method/Channel Total Cyanide/1
Rack #: 1
Analyst: JJM

Ceimic Corporation
Classical Chemistry Laboratory
Lachat Quikchem 8000 Run Logbook

Method File: TCNCL040
Tray File: 17SEP99C
DQM File: TCNCL040
Data File: 17SEP99

Sample ID	Cup #	Sample ID	Cup #	Sample ID	Cup #	Sample ID	Cup #	Sample ID	Cup #	Sample ID	Cup #
ICV2 091799	15		30		45		60		75		90
PBW2 091799	14		29		44		59		74		89
-13	13	9/17/99	28		43		58		73		88
-04	12	JJM	27		42		57		72		87
-03	11		26		41	9/17/99	56		71		86
-02	10		25		40	JJM	55		70		85
-01dup	9		24		39		54		69		84
-01spk	8	-03dup	23		38		53		68		83
990802-01	7	990816-03	22		37		52		67		82
-20	6	QC2 (200ug/L) RCN 091799	21		36		51		66		81
990799-19	5	QC1 (300ug/L) RCN 091799	20		35		50		65		80
S100ug/L 091799	4	PBS RCN 091799	19		34		49		64		79
PBW1 091799	3	-02	18		33		48		63		78
ICB 091799	2	990807-01	17		32		47		62		77
ICV1 091799	1	990802-18	16		31		46		61		76

Cal Stds:
Cup 1: 400 ug/L
Cup 2: 300
Cup 3: 200
Cup 4: 100
Cup 5: 40
Cup 6: 10
Cup 7: 0
Cup 8: —
CCV (Cup 15): 200 ug/L (2ml of 10ppm in 100ml with 20ml 1.25N NaOH)
CCB (Cup 16): DI H2O

Reagents & Source: cal. std = FW990917A
ICV = IS990915A CCV = IS990915B
carrier = IS990917A buffer = FS990823B
color reagent = FS990917B chloramine T = FW990917B

400ug/L = 8ml of 5ppm in 100ml
300 = 6ml of 5ppm in 100ml
200 = 4ml of 5ppm in 100ml
100 = 2ml of 5ppm in 100ml
40 = 10ml of 400ug/L in 100ml
10 = 10ml of 100ug/L in 100ml
} include 20ml 1.25N NaOH

Review: 9/15/11

NaOH: IS990916B

000096

Page #:

see CN distillation and Reactivity logbooks for TDS, weights, and volumes

QAT0134

704

Date: 9/16/99
Method/Channel Total Cyanide/1
Rack #: 1
Analyst: JDM

Ceimic Corporation
Classical Chemistry Laboratory
Lachat Quikchem 8000 Run Logbook

Method File: TCNCLP40
Tray File: 16SEP99b
DQM File: TCNCLP40
Data File: 16SEP99b

Sample ID	Cup #	Sample ID	Cup #	Sample ID	Cup #	Sample ID	Cup #	Sample ID	Cup #	Sample ID	Cup #
JDM 9/16/99	15		30		45		60		75		90
	14		29		44		59		74		89
-18	13		28		43		58		73		88
-17	12		27		42		57		72		87
-16	11		26		41		56		71		86
-11	10		25		40	9/16/99	55		70		85
990799-10	9		24		39		54		69		84
PBW, 091699	8		23		38	JDM	53		68		83
-08	7		22		37		52		67		82
990802-07	6		21		36		51		66		81
S100ug/L 091699	5		20		35		50		65		80
IC, LCSS, 091699	4		19		34		49		64		79
PBS, 091699	3		18		33		48		63		78
ICB 091699	2		17		32		47		62		77
ICV, 091699	1		16		31		46		61		76

Cal Stds:
Cup 1 : 400ug/L
Cup 2 : 300
Cup 3 : 200
Cup 4 : 100
Cup 5 : 40
Cup 6 : 10
Cup 7 : 0
Cup 8 : —

CCV (Cup 15) : 200ug/L (2ml of 10ppm in 100ml with 20ml, 1.25N NaOH) JDM 9/16/99
CCB (Cup 16) : DI/50

Reagents & Source: cal. std.: IS990916A
ICV = IS990915A CCV = IS990915B
carrier = IS990823A buffer: IS990823B
color reagent: IS990823C chloramine T: IS990916B

See CN distillation logbook for ID's and volumes.

400ug/L : 8ml of 5ppm in 100ml
300 = 6ml of 5ppm in 100ml
200 = 4ml of 5ppm in 100ml
100 = 2ml of 5ppm in 100ml
40 = 10ml of 400ug/L in 100ml
10 = 10ml of 100ug/L in 100ml
(include 20ml, 1.25N NaOH)

Review: DT 9/16/99

NaOH = IS990915D

QAT0134

1705

Page #: 000095

Ceimic Corporation
Classical Chemistry Laboratory
Cyanide Distillation Logbook

CLP

Analyst: JS

Date	#	Ceimic ID	Client ID	Sample wt/vol	Final vol	Sample pH	Chlorine check	Sulfide check 9010A	Sulfide check CLP 4.0
9/16/99	1	PBS, 091699	DI H_2O	500	250	NA	NA	NA	NA
	2	ICV, 091699	5mL of IS990915A	500mL					
	3	LCSS, 091699	IP990322A	0.25g/500					
	4	S002 091699	10mL of 5ppm	500					
	5	990802-07	D00070	5.19g/500					
	6	-08	D00071	5.27g/500					
	7	PBW, 091699	DI H_2O	500			NA		NA
	8	990799-10	102-MW-004-01			12	—		—
	9	-11	102-MW-005-01			12	—		—
	10	-16	100-MW-001-01			12	—		—
	11	-17	100-MW-002-01			12	—		—
	12	-18	100-MW-003-01			12	—		—
	1	PBW, 091699	DI H_2O			NA	NA		NA
	2	ICV, 091699	5mL of IS990915A						
	3	990799-19				12			
	4	-20	9/16/99			12			
	5	990802-01	CDM			12			
	6	-01 30K	1mL of 5ppm			12			
	7	-01dup				12			
	8	-02				12			
	9	-03				12			
	10	-04				12			
	11	-09				12			
✓	12	-13		✓	✓	12		✓	

NaOH: IS990916A $MgCl_2$: IS990915E Review: KA 11/4/11

H_2SO_4: R990730A2 $CdCO_3$: —

Sulfamic Acid: — $BiNO_3$: —

1706

If residual chlorine is present: add ascorbic acid
If sulfide is present in the sample: add $BiNO_3$ prior to distillation (9010A)
If sulfide is present in the distillate: add $CdCO_3$ to distillate (CLP4.0)

5ppm = IW990916A

Start: 12:00

end: 1:20

QAT0033

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Ceimic Corporation

Classical Chemistry Laboratory

% Solids Logbook

1707

Date/Time In	Date/Time Out	Ceimic ID	Client ID	Tare g	Wet weight Gross g	Wet weight Net g	Dry Weight Gross #1 g	Dry Weight Gross #2* g	Dry Weight Net g	% Solids	Analyst	Review By
[illegible] 16:05	[illegible]	[illegible]	[illegible]	1.29	[illegible]	[illegible]	~~5.12~~ 5.13		6.44	78.4	AS	[illegible] 9/14/99
9/14/99 15:50	9/15/99 [illegible]	990902-05	D[illegible]	1.28	9.36	8.55	7.13		5.85	68.2		[illegible] 9/15/99
		-05dup	D[illegible]	1.28	10.51	9.23	7.65		6.37	69.0		
		-06	DCC069	1.27	9.40	8.13	7.87		6.60	81.2		
		-07	DCC70	1.27	9.62	8.35	6.84		5.57	66.7		
		-08	DCC71	1.28	9.92	8.64	7.29		6.01	69.6		
		990326-04	GN-DCC54	1.28	9.42	8.14	~~8.72~~ 8.50 9/15/99		7.22	88.7		
		-04dup	GN-DCC54	1.28	9.90	8.62	8.12		7.64	88.6		
9/17/99 10:10	9/17/99 13:00	990865-01	carbon1	1.28	7.58	6.30	6.25	6.24	4.96	78.7	JDM	[illegible] 9/17/99
		-02	carbon2	1.28	7.62	6.34	6.04	6.04	4.76	75.1		
		990916-03	GN DCC63	1.27	8.02	6.75	6.63	6.64	~~6.63~~ 5.37 9/17/99	79.6		
9/17/99 10:51	9/17/99 10:25	[illegible]	[illegible]	1.27	7.60	6.33	7.42	—	6.15	97.2	[illegible]	
		-02	[illegible] -01	1.28	8.05	6.77	7.80		6.52	96.3		
		-03	[illegible]-30-01	1.28	8.77	7.51	8.36		7.08	94.3		
		-04	[illegible]-35-02	1.28	8.41	7.13	7.40		6.12	85.8		
		-05	[illegible]	1.28	7.11	5.83	6.35		5.07	~~86.6~~ 87.0	TY 9/18/99	
		305D	↓	1.28	9.63	8.35	8.71		7.43	89.0		
↓	✓	-06	[illegible]-22-DD	1.28	7.77	6.51	7.09	↓	5.81	89.2	↓	

All weights must be carried out to 2 decimal places

% solids = (net dry weight / net wet weight) * 100

Dry samples ≥ 12 hours at 103°C to 105°C

* Use only when proving constant weight.

INORGANIC ANALYTES

CEIMIC
Corporation
"Analytical Chemistry for Environmental Management"

METHOD BLANK

TOTAL ORGANIC CARBON

Client: Roy F. Weston Inc.

Blank ID: PBS

Ceimic Project: 990802

Target Analyte	Result	Units	Method Reporting Limit	Date Prep'd	Date Analyzed
Total Organic Carbon	ND	mg/Kg+	50.0	09/14/99	09/14/99

ND = Not Detected

Reported by: Jeffrey D. Mayron

Approved by: David Tatarelli

1709

CEIMIC
Corporation
"Analytical Chemistry for Environmental Management"

TOTAL ORGANIC CARBON

EPA 415.1/9060

Client: Roy F. Weston Inc.

Client Sample ID: D00068

Date Sampled: 09/09/99

Laboratory ID: 990802-05

Date Sample Received: 09/10/99

Percent Solids: 68.2

Matrix: Soil

Target Analyte	Result	Units	Method Reporting Limit	Date Prep'd	Date Analyzed
Total Organic Carbon	9690	mg/Kg+	73.3	09/14/99	09/14/99

+ Dry weight basis.

Reported by: Jeffrey D. Maymon

Approved by: Gerald Tatarelli

1710

CEIMIC
Corporation
"Analytical Chemistry for Environmental Management"

SPIKE SAMPLE SUMMARY

TOTAL ORGANIC CARBON

Client: Roy F. Weston Inc.

Client Sample ID: D00068

Date Sampled: 09/09/99

Laboratory ID: 990802-05Spk

Date Sample Received: 09/10/99

Concentration in: mg/Kg (ppm)+

Matrix: Soil

Target Analyte	Sample Result	Spike Added	Spiked Sample Result	Recovery(%) Predigest Spike	Recovery(%) QC Limits
Total Organic Carbon	9690	10300	19300	93	75-125
Total Organic Carbon	9690	10700	19500	92	75-125

+ Dry weight basis.

Reported by: Jeffrey D. Magnuson

Approved by: David Tatelli

1711

CEIMIC
Corporation
"Analytical Chemistry for Environmental Management"

TOTAL ORGANIC CARBON

EPA 415.1/9060

Client: Roy F. Weston Inc.

Client Sample ID: D00069

Date Sampled: 09/09/99

Laboratory ID: 990802-06

Date Sample Received: 09/10/99

Percent Solids: 81.2

Matrix: Soil

Target Analyte	Result	Units	Method Reporting Limit	Date Prep'd	Date Analyzed
Total Organic Carbon	1410	mg/Kg+	61.6	09/14/99	09/14/99

+ Dry weight basis.

Reported by: Jeffrey D. Maynor

Approved by: Gerald Tatarelli

1712

CEIMIC
Corporation
"Analytical Chemistry for Environmental Management"

TOTAL ORGANIC CARBON

EPA 415.1/9060

Client: Roy F. Weston Inc.

Client Sample ID: D00070

Date Sampled: 09/09/99

Laboratory ID: 990802-07

Date Sample Received: 09/10/99

Percent Solids: 66.7

Matrix: Soil

Target Analyte	Result	Units	Method Reporting Limit	Date Prep'd	Date Analyzed
Total Organic Carbon	9680	mg/Kg+	75.0	09/14/99	09/14/99

+ Dry weight basis.

Reported by: Jeffrey D. Maynor

Approved by: David Tatoulis

1713

CEIMIC
Corporation
"Analytical Chemistry for Environmental Management"

TOTAL ORGANIC CARBON

EPA 415.1/9060

Client: Roy F. Weston Inc.

Client Sample ID: D00071

Date Sampled: 09/09/99

Laboratory ID: 990802-08

Date Sample Received: 09/10/99

Percent Solids: 69.6

Matrix: Soil

Target Analyte	Result	Units	Method Reporting Limit	Date Prep'd	Date Analyzed
Total Organic Carbon	8400	mg/Kg+	71.8	09/14/99	09/14/99

+ Dry weight basis.

Reported by: Jeffrey D. Mayron

Approved by: David Zatorski

CEIMIC
Corporation
"Analytical Chemistry for Environmental Management"

QUALITY CONTROL

LABORATORY CONTROL SAMPLE SUMMARY

TOTAL ORGANIC CARBON

Client: Roy F. Weston Inc.

Laboratory Control Spike ID: QC

Ceimic Project: 990802

Concentration in: mg/Kg (ppm)

Target Analyte	Date Analyzed	Date Prep'd	True Value	Lab Control Spike Result	Lab Control Spike Recovery(%)	QC Limits(%)
Total Organic Carbon	09/14/99	09/14/99	11600	10960	94.0	80-120

Reported by: Jeffrey P. Maynor

Approved by: Ursula Tortorelli

Ceimic Corporation
Classical Chemistry Laboratory
Total Organic Carbon Logbook (TOC)

Date	Ceimic ID	Client ID	Rep	Matrix	Vol	Wt (mg)	TOC	Result	Init	Review by
9/1-/99	091-1-0	DI	1	A	40 ml	—	13.90		EJ	9/16/99
	-3,000	ZZ990914 B	1				2867			
	-12,000	C	1				10420	r² = 0.999		
	-24,000	D	1				21240			
	-30,000	ZZ990907 A	1				27580			
	-15,000	B	1				15640	104% Rec		
	-00	DI	1				14.32			
	-11,600	ZP990113 A	1			20.0	10960	94% Rec		
	-11,600	+ $CaCO_3$	1			21.4	9062			
	-11,600	+ $CaCO_3$*	1			20.4+2.0	10430	90% Rec		
	990802-05	D00068	1			31.3	6167			
			2			23.8	6939	$\bar{x}$ = 6,608 / .682 = 9689		
			3			25.5	7709			
			4			27.9	5617			
	990802-05	D00068 MS	1			27.1	13170			
			2			32.2	11160			
			3			32.3	12250			
			4			27.9	12400	91.1%		
			5			21.8	16960			

Reagents & Source: *$CaCO_3$ (ZP990117A) 1.1 H_3PO_3 (M990712A)

QAT0103

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Ceimic Corporation
Classical Chemistry Laboratory
Total Organic Carbon Logbook (TOC)

Date	Ceimic ID	Client ID	Rep	Matrix	Vol	Wt (mg)	TOC	Result	Init	Review by
9/14/99	990302-05MS	D000 65 MS*	1	S	—	13.6	15270		ES	DM
			2			23.2	13770	x̄ = 13,190/.682 = 11340		9/16/99
			3			20.0	12060	Spike Rec = 93%		
			4			23.4	11660			
	-05MSD	MSD*	1			21.8	11630			
			2			19.0	13180	x̄ = 13,280/.682 = 11,472		
			3			20.9	12060	Spike Rec = 92%		
			4			20.5	16260			
	-06	D000 69	1			24.8	1038			
			2			25.4	739.1	x̄ = 1,143/.812 = 1406		
			3			25.6	958.5			
			4			24.1	1333			
	-07	D000 70	1			30.6	7070			
			2			28.1	5277	x̄ = 6,458/.667 = 9682		
			3			28.6	6906			
			4			27.3	6578			
	-08	D000 71	1			22.9	6633			
			2			20.8	5153	x̄ = 5,848/.616 = 8402		
			3			21.4	5687			
✓	✓	✓	4	✓	✓	19.6	5921		✓	✓

Reagents & Source: See Pg #82

MS: $\frac{13,190 - 6,608}{7,042/.682 = 10,326} \times 100 = 93\%$ Rec

MSD: $\frac{13,280 - 6,608}{7,282/.682 = 10,677} \times 100 = 92\%$ Rec

* Samples spiked with 10ml of 15,000ppm = 150

$S_{spike} = \frac{150}{Wt}$ = spike

Spike Rec = $\frac{\bar{x} - \bar{x}}{\bar{x}} \times 100$ = % Rec

QAT0103

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Ceimic Corporation
Classical Chemistry Laboratory
Total Organic Carbon Logbook (TOC)

Date	Ceimic ID	Client ID	Rep	Matrix	Vol	Wt (mg)	TOC	Result	Init	Review by
9/14/99	0914-15,000	15990907B	1	A	100	—	15090	1017.120	ES	9/16/99
↓	↓ -00	02	1	↓	↓	↓	9434		↓	↓
				ES						
					9/14/99					

Reagents & Source: See Pg # 82

QAT0103

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Sample ID# 0914-0
1. TC = 13.9 mg/l
17:24:07 Tue Sep 14, 1999

1 of 2

Sample ID# 0914-3000 X990914B
1. TC = 2867. mg/l
17:29:19 Tue Sep 14, 1999

Sample ID# 0914-1200 C
1. TC = 10420. mg/l
17:35:35 Tue Sep 14, 1999

Sample ID# 0914-2400 D
1. TC = 21240. mg/l
17:41:47 Tue Sep 14, 1999

Sample ID# 0914-3000 X990907A
1. TC = 27580. mg/l
17:48:05 Tue Sep 14, 1999

Sample ID# 0914-1500 B
1. TC = 15640. mg/l
17:54:53 Tue Sep 14, 1999

Sample ID# 0914-00
1. TC = 14.32 mg/l
18:08:56 Tue Sep 14, 1999

Sample ID# 0914-1160
Sample mass (mg) = 20.
1. TC = 10960. ug/g
18:14:42 Tue Sep 14, 1999

Sample ID# 0914-1160
Sample mass (mg) = 19.8
1. TC = 9062. ug/g
18:22:42 Tue Sep 14, 1999

Sample ID# 0914-1160
Sample mass (mg) = 20.4
1. TC = 10430. ug/g
18:30:38 Tue Sep 14, 1999

Sample ID# 990802-05 000068
Sample mass (mg) = 31.3
1. TC = 6167. ug/g
Sample mass (mg) = 28.8
2. TC = 6939. ug/g
Sample mass (mg) = 28.5
3. TC = 7709. ug/g
Sample mass (mg) = 27.9
4. TC = 5617. ug/g
AVG TC = 6608. +/- 912.8 % std dev: 13.81
18:51:13 Tue Sep 14, 1999

Sample ID# 990802-05
Sample mass (mg) = 27.1
1. TC = 13170. ug/g
Sample mass (mg) = 32.2
2. TC = 11160. ug/g
Sample mass (mg) = 32.3
3. TC = 12250. ug/g
Sample mass (mg) = 27.9
4. TC = 42400. ug/g
Sample mass (mg) = 21.8
5. TC = 16960. ug/g
AVG TC = 19190. +/- 13160. % std dev: 68.59
19:27:00 Tue Sep 14, 1999
Repeat number 4 omitted:

1719

Sample ID# 990802-03 A00067 A1

2082

Sample mass (mg) = 18.6
1. TC = 15270. ug/g
Sample mass (mg) = 23.2
2. TC = 13770. ug/g
Sample mass (mg) = 20.
3. TC = 12060. ug/g
Sample mass (mg) = 23.4
4. TC = 11660. ug/g
AVG TC = 13190. +/- 1661. % std dev: 12.59
20:01:43 Tue Sep 14, 1999

Sample ID# 990802-05 A00068 A/A
Sample mass (mg) = 21.8
1. TC = 11630. ug/g
Sample mass (mg) = 19.
2. TC = 13180. ug/g
Sample mass (mg) = 20.9
3. TC = 12060. ug/g
Sample mass (mg) = 20.5
4. TC = 16260. ug/g
AVG TC = 13280. +/- 2090. % std dev: 15.74
20:21:59 Tue Sep 14, 1999

Sample ID# 990802-06 A00069
Sample mass (mg) = 24.8
1. TC = 1038. ug/g
Sample mass (mg) = 25.4
2. TC = 739.1 ug/g
Sample mass (mg) = 25.6
3. TC = 958.5 ug/g
Sample mass (mg) = 24.1
4. TC = 1833. ug/g
AVG TC = 1142. +/- 477.5 % std dev: 41.81
20:51:00 Tue Sep 14, 1999

Sample ID# 990802-07 A00070
Sample mass (mg) = 30.6
1. TC = 7070. ug/g
Sample mass (mg) = 28.1
2. TC = 5277. ug/g
Sample mass (mg) = 28.6
3. TC = 6906. ug/g
Sample mass (mg) = 27.3
4. TC = 6578. ug/g
AVG TC = 6458. +/- 813.5 % std dev: 12.6
21:10:23 Tue Sep 14, 1999

Sample ID# 990802-08 A00071
Sample mass (mg) = 22.9
1. TC = 6633. ug/g
Sample mass (mg) = 20.8
2. TC = 5153. ug/g
Sample mass (mg) = 21.4
3. TC = 5687. ug/g
Sample mass (mg) = 19.6
4. TC = 5921. ug/g
AVG TC = 5848. +/- 613.8 % std dev: 10.5
21:29:12 Tue Sep 14, 1999
Sample ID# 0914-1500
1. TC = 15090. mg/l
21:39:47 Tue Sep 14, 1999
Sample ID# 0914-00
1. TC = 9.484 mg/l
21:49:08 Tue Sep 14, 1999

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Ceimic Corporation
Classical Chemistry Laboratory
% Solids Logbook

Date/Time In	Date/Time Out	Ceimic ID	Client ID	Tare g	Wet weight Gross g	Wet weight Net g	Dry Weight Gross #1 g	Dry Weight Gross #2* g	Dry Weight Net g	% Solids	Analyst	Review By
9/9/99 16:00	9.10.99 9:30	990758-10	D00010	1.28	10.00	8.72	~~8.173~~ 8.12 AS 9/10/99		6.84	78.4	AS	9/10/99
9/14/99 15:30	9/15/99 10:00	990802-05	D00068	1.28	9.86	8.58	7.13		5.85	68.2		9/15/99
		-05dup	D00068	1.28	10.51	9.23	7.65		6.37	69.0		
		-06	D00069	1.27	9.40	8.13	7.87		6.60	81.2		
		-07	D00070	1.27	9.62	8.35	6.84		5.57	66.7		
		-08	D00071	1.28	9.92	8.64	7.29		6.01	69.6		
		990806-04	GN-D006504	1.28	9.42	8.14	~~8.12~~ 8.50 AS 9/15/99		7.22	88.7		
		-04dup	GN-D006504	1.28	9.90	8.62	8.12		7.64	88.6		
9/17/99 10:10	9/17/99 13:00	990805-01	carbon01	1.28	7.58	6.30	6.25	6.24	4.96	78.7	JM	9/17/99
		-02	carbon02	1.28	7.62	6.34	6.04	6.04	4.76	75.1		
		990816-03	GN-D006703	1.27	8.02	6.75	6.63	6.64	~~6.63~~ 5.37 JM 9/17/99	79.6		
9/17/99 13:51	9/18/99 10:25	990799-01	102-55-02	1.27	7.60	6.33	7.42	—	6.15	97.2	TY	
		-02	-01	1.28	8.05	6.77	7.80		6.52	96.3		
		-03	102-30-01	1.28	8.79	7.51	8.36		7.08	94.3		
		-04	100-55-02	1.28	8.41	7.13	7.40		6.12	85.8		
		-05	100-55-01	1.28	7.11	5.83	6.35		5.07	~~86.~~ 87.0 TY 9/18/99		
		-05D		1.28	9.63	8.35	8.71		7.43	89.0		
		-06	100-22-DD	1.28	7.79	6.51	7.09		5.81	89.2		

All weights must be carried out to 2 decimal places
% solids = (net dry weight/ net wet weight)*100

Dry samples ≥ 12 hours at 103°C to 105°C

* Use only when proving constant weight.

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QAT0042

016

ACID VOLATILE SULFIDES AND SIMULTANEOUSLY EXTRACTED METALS

CEIMIC
CORPORATION

"Analytical Chemistry for Environmental Management"

METHOD BLANK
ACID VOLATILE SULFIDES AND
SIMULTANEOUSLY EXTRACTED METALS

Client: Roy F. Weston, Inc.

Laboratory ID : PBS1 091499

Date Analysis Completed : 10/12/99 Concentration in : μmol/g+

Target Analyte	Sample Concentration		Method Reporting Limit
Acid Volatile Sulfides (AVS)	0.1	U	0.1
Cadmium	0.001	U	0.001
Copper	0.01	U	0.01
Lead	0.0012		0.0005
Nickel	0.01	U	0.01
Zinc	0.06	~~U~~	0.01
Mercury	0.00022		0.00002
Summation of SEM	0.1		
Ratio = $\frac{\text{Summation of SEM}}{\text{AVS}}$	1 *		

U : Undetected at the Method Reporting Limit

* Unitless

Reported by: Jeffrey D. Maymon Approved by: Donald Tortorelli

1723

CEIMIC
CORPORATION

"Analytical Chemistry for Environmental Management"

LABORATORY CONTROL SAMPLE SUMMARY
ACID VOLATILE SULFIDES

Client : Roy F. Weston, Inc.

Ceimic Project : 990802

Laboratory Control Sample ID : QC1 091499

Date Analysis Completed : 10/12/99

Matrix : Aqueous

Concentration in : mg/L

Target Analyte	Spike Added	Laboratory Control Spike Result	% Recovery	Control Limit (%)
Acid Volatile Sulfides (AVS)	0.540	0.600	90	50 – 125 %

Reported by: Jeffrey D. Maymon

Approved by: Donald Tatarelli

CEIMIC
CORPORATION

"Analytical Chemistry for Environmental Management"

ACID VOLATILE SULFIDES AND SIMULTANEOUSLY EXTRACTED METALS

Client: Roy F. Weston, Inc.

Client Sample ID : D00068 | Laboratory ID : 990802-05

Date Sample Received : 09/10/99 | Date Analysis Completed : 10/12/99

Date Sampled : 09/09/99 | Concentration in : μmol/g+

Target Analyte	Sample Concentration	Method Reporting Limit
Acid Volatile Sulfides (AVS)	0.5	0.1
Cadmium	0.001 U	0.001
Copper	0.05	0.01
Lead	0.041	0.001
Nickel	0.08	0.02
Zinc	0.90	0.01
Mercury	0.00003 U	0.00003
Summation of SEM	1.07	
Ratio = Summation of SEM / AVS	2.00 *	

+ Reported on a dry weight basis, % solid = 68.2

U : Undetected at the Method Reporting Limit

* Unitless

Reported by: Jeffrey D. Maymon

Approved by: Donald Tortorelli

CEIMIC
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"Analytical Chemistry for Environmental Management"

ACID VOLATILE SULFIDES AND SIMULTANEOUSLY EXTRACTED METALS

Client: Roy F. Weston, Inc.

Client Sample ID : D00068

Laboratory ID : 990802-05Dup

Date Sample Received : 09/10/99

Date Analysis Completed : 10/12/99

Date Sampled : 09/09/99

Concentration in : μmol/g+

Target Analyte	Sample Concentration		Method Reporting Limit
Acid Volatile Sulfides (AVS)	0.6		0.1
Cadmium	0.001	U	0.001
Copper	0.06		0.01
Lead	0.040		0.001
Nickel	0.11		0.02
Zinc	0.54		0.01
Mercury	0.00003	U	0.00003
Summation of SEM	0.74		
Ratio = $\frac{\text{Summation of SEM}}{\text{AVS}}$	1.28 *		

+ Reported on a dry weight basis, % solid = 68.2

U : Undetected at the Method Reporting Limit

* Unitless

Reported by: Jeffrey D. Maymon

Approved by: David Tatarelli

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CEIMIC
CORPORATION

"Analytical Chemistry for Environmental Management"

ACID VOLATILE SULFIDES AND SIMULTANEOUSLY EXTRACTED METALS SPIKE ANALYSIS

Client: Roy F. Weston, Inc.

Client Sample ID : D00068

Laboratory ID : 990802-05Spk

Date Sample Received : 09/10/99

Date Analysis Completed : 10/12/99

Date Sampled : 09/09/99

Concentration in : mg/Kg

Target Analyte	Sample Concentration	Spike Added	Spike Sample Result	% Recovery	Control Limit
Acid Volatile Sulfides (AVS)	17.2	14.6	34.3	108	75-125

Reported by: Jeffrey D. Magnon

Approved by: David Latorelli

CEIMIC
CORPORATION

"Analytical Chemistry for Environmental Management"

ACID VOLATILE SULFIDES AND SIMULTANEOUSLY EXTRACTED METALS

Client: Roy F. Weston, Inc.

Client Sample ID : D00069 | Laboratory ID : 990802-06

Date Sample Received : 09/10/99 | Date Analysis Completed : 10/12/99

Date Sampled : 09/09/99 | Concentration in : μmol/g+

Target Analyte	Sample Concentration		Method Reporting Limit
Acid Volatile Sulfides (AVS)	0.0	U	0.1
Cadmium	0.001	U	0.001
Copper	0.02		0.01
Lead	0.020		0.001
Nickel	0.01	U	0.02
Zinc	0.24		0.01
Mercury	0.00002	U	0.00002
Summation of SEM	0.29		
Ratio = $\frac{\text{Summation of SEM}}{\text{AVS}}$	6.13 *		

+ Reported on a dry weight basis, % solid = 81.2

U : Undetected at the Method Reporting Limit

* Unitless

Reported by: Jeffrey D. Maynor

Approved by: Gerald Zatorelli

CEIMIC
CORPORATION

"Analytical Chemistry for Environmental Management"

ACID VOLATILE SULFIDES AND SIMULTANEOUSLY EXTRACTED METALS

Client: Roy F. Weston, Inc.

Client Sample ID : D00070 | Laboratory ID : 990802-07

Date Sample Received : 09/10/99 | Date Analysis Completed : 10/12/99

Date Sampled : 09/09/99 | Concentration in : µmol/g+

Target Analyte	Sample Concentration		Method Reporting Limit
Acid Volatile Sulfides (AVS)	0.0	U	0.1
Cadmium	0.001	U	0.001
Copper	0.06		0.01
Lead	0.110		0.001
Nickel	0.04		0.02
Zinc	0.77		0.01
Mercury	0.00003	U	0.00003
Summation of SEM	0.98		
Ratio = Summation of SEM / AVS	21.48 *		

+ Reported on a dry weight basis, % solid = 66.7

U : Undetected at the Method Reporting Limit

* Unitless

Reported by: Jeffrey D. Maynor

Approved by: Donald Tatorelli

CEIMIC
CORPORATION

"Analytical Chemistry for Environmental Management"

ACID VOLATILE SULFIDES AND SIMULTANEOUSLY EXTRACTED METALS

Client: Roy F. Weston, Inc.

Client Sample ID : D00071 | Laboratory ID : 990802-08

Date Sample Received : 09/10/99 | Date Analysis Completed : 10/12/99

Date Sampled : 09/09/99 | Concentration in : μmol/g+

Target Analyte	Sample Concentration		Method Reporting Limit
Acid Volatile Sulfides (AVS)	0.2		0.1
Cadmium	0.001	U	0.001
Copper	0.09		0.01
Lead	0.081		0.001
Nickel	0.04		0.02
Zinc	0.76		0.01
Mercury	0.00003	U	0.00003
Summation of SEM	0.98		
Ratio = $\frac{\text{Summation of SEM}}{\text{AVS}}$	4.20 *		

+ Reported on a dry weight basis, % solid = 69.6

U : Undetected at the Method Reporting Limit

* Unitless

Reported by: Jeffrey D. Maynor

Approved by: David Zatoski

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Ceimic Corporation
Classical Chemistry Laboratory
Sulfide Analysis Logbook

1731

Date: 9/14/99 MDL for S, ortho and AVS Analyst: JDM Review: [illegible] 9/16/99

Ceimic ID	Client ID	Reactivity Sample Vol mls	Sample Volume mls	% Trans	Calc. Absorb.	Calc. Conc mg/L	Dilut. Factor	Result	% Recovery
S0.00 mg/L	DIH2O	—	25	100.0	0.000	—	—	—	—
S0.05	0.5ml of 10ppm in 100ml	—	25	93.1	0.031	—	—	—	—
S0.10	1.0ml of 10ppm in 50ml	—	25	86.2	0.064	—	—	—	—
S0.20	0.5ml of 10ppm in 25ml	—	25	75.2	0.124	—	—	—	—
S0.40	1.0ml of 10ppm in 25ml	—	25	56.1	0.251	—	—	—	—
S0.80	2.0ml of 10ppm in 25ml	—	25	36.4	0.439	—	—	—	—
ICV (0.40)	1ml of 10ppm in 25ml	—	25	55.9	0.252	0.440	—	0.44	110 %
ICB	DIH2O	—	25	99.8	0.001	-0.014	—	ND	—
9/14/99 ~~PBS~~ MDL #1 (0.05)	1ml of 10ppm in 200ml	—	25	92.8	0.032	0.042	—	0.042	—
MDL #2 (0.05)		—	25	92.0	0.036	0.049	—	0.049	—
MDL #3 (0.05)		—	25	92.2	0.035	0.047	—	0.047	—
MDL #4 (0.05)		—	25	93.8	0.028	0.035	—	0.035 MDL	—
MDL #5 (0.05)		—	25	93.6	0.029	0.036	—	0.036	—
MDL #6 (0.05)		—	25	92.1	0.036	0.049	—	0.049	—
MDL #7 (0.05)		—	25	92.5	0.034	0.045	—	0.045	—
CCV (0.40)	1ml of 10ppm in 25ml	—	25	56.8	0.246	0.430	—	0.43	108 %
CCB	DIH2O	—	25	99.6	0.002	-0.013	—	ND	—
PBS 091499 AVS A	DIH2O	250/250	25	95.9	0.018	0.016	—	ND	—
B			25	94.8	0.005	-0.007	—		—

Wavelength = 665 nm
Pathlength = 1 cm
MRL = 0.05 mg/L

Calc Absorbance = 2 − log(% Trans)
Conc of analyte = $\frac{(Abs - b)}{m}$

m = 0.55194
b = 0.00491
r = 0.9974

Reagents & Source:
#1 Hach: IP9906038
#2 Hach: IP990603C

10ppm cal std = IW990914A = 1ml of 1000ppm in 100ml
10ppm ICV/CCV/QC/MDL/spk = 1ml of 1000ppm in 100ml = IW990914B

MDL Study
$\bar{x}$ = 0.043
std. dev. = 0.00585
MDL = std. dev. x 3.143 = 0.018 mg/L

QAT0120

Page # 22

Ceimic Corporation
Classical Chemistry Laboratory
Sulfide Analysis Logbook

Date: 9/14/99 Analyst: JPm Review: [illegible] 9/15/99

Ceimic ID	Client ID	Reactivity Sample Vol mls	Sample Volume mls	% Trans	Calc. Absorb	Calc. Conc mg/L	Dilut. Factor	Result	% Recovery
QC (0.60mg/L) HUS 091199 A	15ml of 10ppm S2- in 250ml	250/250	25	49.3	0.307	0.540	—	0.54	90 %
↓ B	↓	↓	25	99.2	0.003	-0.011	—	↓	↓
990807-05 A	D00068	10.23g/250	25	53.3	0.273	0.478	—	0.48	—
↓ B		↓	25	98.6	0.005	-0.007	—	↓	—
-05 spk A		10.06g/250	10/25	60.8	0.216	0.375	2.5x	0.94	115 %
↓ B		↓	25	98.6	0.006	-0.005	—	↓	↓
-05 dup A		10.22g/250	25	50.6	0.296	0.520	—	0.52	—
↓ B		↓	25	99.0	0.004	-0.009	—	↓	—
CCV (0.40)	1ml of 10ppm in 25ml	—	25	56.6	0.247	0.431	—	0.43	108 %
CCB	DIH2O	—	25	99.6	0.002	-0.013	—	ND	—
990807-06 A	D00069	10.07g/250	25	95.7	0.019	0.018	—	ND	—
↓ B	↓	↓	25	99.3	0.003	-0.011	—	↓	—
-07 A	D00070	10.20g/250	25	96.9	0.014	0.009	—	ND	—
↓ B	↓	↓	25	99.2	0.003	-0.011	—	↓	—
-08 A	D00071	10.12g/250	25	75.4	0.123	0.207	—	0.21	—
↓ B	↓		25	99.0	0.004	-0.009	—	↓	—
CCV (0.40)	1ml of 10ppm in 25ml	—	25	56.6	0.247	0.431	—	0.43	108 %
CCB	DIH2O	—	25	99.7	0.001	-0.014	—	ND	—
		9/14/99 JPm							

Wavelength = 665nm
Pathlength = 1cm
MRL = 0.05 mg/L

Calc Absorbance = 2 − log(% Trans)
Conc of analyte = (Abs − b) / m

m = 0.55194
b = 0.00891
r = 0.9974

Reagents & Source: see page 22

spk = (0.94 − 0.44) / 0.40 × 100 = 115%

QAT0120

Page # 23

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Check Standard: 2 Ck2HGICV Seq: 6 15:27:24 12 Oct 1999 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		106.1	1.965	1.852	ppb	.0000

ICB DL

*** Check Standard: 1 Ck1~~CCB~~ 11/12/11 Seq: 7 15:29:50 12 Oct 1999 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.0480	.2000	ppb	.0000

*** Check Standard: 5 Ck5HGCCV Seq: 8 15:32:10 12 Oct 1999 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		107.1	3.997	3.731	ppb	.0000

*** Check Standard: 1 Ck1CCB Seq: 9 15:34:42 12 Oct 1999 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.0581	.2000	ppb	.0000

*** Check Standard: 3 Ck3CRA Seq: 10 15:37:03 12 Oct 1999 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		86.31	.1298	.1504	ppb	.0000

*** Sample ID: SEMPBS;PBS Seq: 11 15:39:22 12 Oct 1999 HG

Hg 1.644 ppb .0000 1.644 PBS (1.35x)

*** Sample ID: 990802-05 Seq: 12 15:41:45 12 Oct 1999 HG

Hg .1525 ppb .0000 .1525 D00068 (1.37x)

*** Sample ID: -05;S2 Seq: 13 15:44:02 12 Oct 1999 HG

Hg .0781 ppb .0000 .0781 D00068 DF (1.37x)

*** Sample ID: -06;S Seq: 14 15:46:19 12 Oct 1999 HG

Hg .0544 ppb .0000 .0544 D00069 (1.35x)

*** Sample ID: -07;S Seq: 15 15:48:36 12 Oct 1999 HG

Hg .0541 ppb .0000 .0541 D00070 (1.35x)

*** Sample ID: -08;S Seq: 16 15:50:53 12 Oct 1999 HG

Hg -.0466 ppb .0000 .0466 D00071 (1.37x)

*** Sample ID: 990883-14 Seq: 17 15:53:10 12 Oct 1999 HG

Hg -.0129 ppb .0000 -.0129 ~~GN-D008707 (1.30x)~~

11/12/11

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Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Sample ID: PBW:PBW Seq: 18 15:55:27 12 Oct 1999 HG

Hg	-.0141	ppb	.0000	-.0141	

1012 PBW (1.53x)

*** Check Standard: 5 Ck5HGCCV Seq: 19 15:57:46 12 Oct 1999 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		107.3	4.004	3.731	ppb	.0000

*** Check Standard: 1 Ck1CCB Seq: 20 16:00:17 12 Oct 1999 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.0644	.2000	ppb	.0000

Ceimic Corporation
Metals Laboratory
PS 200 Mercury Analysis Logbook

Date: 10/12/97

Folder: HG012A Analyst: DL
Case(s): 882, 883 Review: [illegible] 10/12/97

CUP ID	SAMPLE ID	DIL FACT	CUP ID	SAMPLE ID	DIL FACT
S1	0	1.33	18		
S2	0.2 → .15038	1.33	19		
S3	0.5 → .36416	1.37	20		
S4	1.0 → .73529	1.36	21		
S5	5.0 → 3.7313	1.34	23		
S6	10.0 → 7.5758	1.32	23		
CK 1/ICB	0	1.34	24		
CK 2/ICV	2.5 → 1.8517	1.35	25		
CK 3/CRA	0.2 → .15038	1.33	26		
CK 4/CCB	0	1.34	27		
CK 5/CCV	5.0 → 3.7313	1.34	28		
1	PBS	1.35	29		
2	910802-05	1.31	30		
3	-05D	1.37	31		
4	-06	1.35	32		
5	-07	1.35	33		
6	-08	1.37	34		
7	910883-14	1.30	35		
8	PBW	1.33	36		
9			37		
10			38		
11			39		
12			40		
13			41		
14			42		
15			43		
16			44	DL	10/12/97
17					

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QAT0036

10% HCl: HR970721C

10% $SnCl_2$: HR970728B

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7470A, SEM

Ceimic Corporation
Metals Laboratory
Mercury Digestion Log

Analyst: JH Date: 10/12/11 Check: BR 10/12/11

BOD #	Lab ID	Client ID	Sample vol/wt	pH	Reagent ID and vol. added (ml) H_2SO_4 (R110910A5)	HNO_3 (R110609C5)	$KMnO_4$* (R110920A)	$K_2S_2O_8$ (R110915B)	Spike Witness
50	50	DI H2O	100ml	—	5.0ml	2.5ml	15ml	8.0ml	—
0.2	50.2	MW 910954	0.2						
0.5	50.5		0.5						
1.0	50.0		1.0						
5.0	50.0		5.0						
10.0	50.0		10.0						
ICV	ICV(2.5)	M2109.9750	0.5						
CCV	CCV(5.0)		1.0						
ICB	ICB/CCB	DI H2O	100						
11	0.01 PBS	#802	100 ~~50~~ ml 10/10						
100	910802-05	D00068							
186	-05D								
266	-06	D00069							
269	-07	D00070							
336	-08	D00071							
391	910883-14	GW-D008409	100ml	<2					

JH 10/12/11

*Use star to indicate if extra $KMnO_4$ was required. Add $KMnO_4$ to all bottles.

Comments: BATH TEMP.: 95.0°C

SAMPLES IN: 12:00

SAMPLES OUT: 14:00

Hg Digestor.: HR910928A

B

5.00ml = 5.00 (5.0297g)

Pipette ID: P4

Vol.: 1000µL = 1005 (.9962g)

500µL = 505 (.5004g)

200µL = 202 (.2026g)

QAT0035

Page # 000 68

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Method: 802A Standard: OSTANDARD

Elem	Cd2265	Al3082	Ca3179	Fe2714	Mg2790	Mn2576	V_2924
Avge	.0545	.9500	.3775	1.393	1.145	.0415	.1650
SDev	.2114	.0028	.0007	.005	.004	.0007	.0014
%RSD	387.9	.2977	.1873	.3552	.3705	1.704	.8571
#1	.2040	.9520	.3780	1.397	1.148	.0420	.1660
#2	-.0950	.9480	.3770	1.390	1.142	.0410	.1640

Elem	P1	P2
Avge	-.8275	.0075
SDev	.1662	.2807
%RSD	20.08	3743.
#1	-.7100	-.1910
#2	-.9450	.2060

Method: 802A Standard: STANDARD8

Elem	Cd2265	P1	P2
Avge	101.3	295.1	217.7
SDev	.3	.9	.9
%RSD	.2960	.3190	.4233
#1	101.5	295.7	218.3
#2	101.1	294.4	217.0

Method: 802A Standard: STANDARD7

Elem	Al3082	Ca3179	Fe2714	Mg2790
Avge	675.6	148.9	189.7	927.4
SDev	5.5	1.0	1.3	5.5
%RSD	.8075	.6692	.6852	.5911
#1	671.7	148.2	188.7	923.5
#2	679.4	149.6	190.6	931.2

Method: 802A Standard: STANDARD9

Elem	Mn2576	V_2924
Avge	20.01	12.71
SDev	.05	.03
%RSD	.2403	.2226
#1	20.04	12.73
#2	19.97	12.69

Method: 802A Sample Name: TICPICV;ICV Operator: TY - 1739
Run Time: 10/08/99 15:58:59
Comment: J3 DATA FILE;9910085/802 SEM
Mode: CONC Corr. Factor: 1

Elem	Pb2203	Cd2265	Al3082	Ca3179	Fe2714	Mg2790	Mn2576

Units	ppb	ppb	ppm	ppm	ppm	ppm	ppm
Avge	25.89	12.41	.2283	.5538	.1597	.5575	.0494
SDev	.03	.21	.0021	.0048	.0301	.0054	.0007
%RSD	.1215	1.656	.9183	.8597	18.82	.9610	1.432
#1	25.91	12.56	.2297	.5505	.1384	.5613	.0499
#2	25.86	12.27	.2268	.5572	.1809	.5538	.0489

Elem	V_2924	P1	P2
Units	ppm	ppb	ppb
Avge	.0496	32.96	22.35
SDev	.0003	2.44	1.26
%RSD	.5632	7.399	5.657
#1	.0494	31.24	23.25
#2	.0498	34.68	21.46

Method: 802A Sample Name: ICB;ICB Operator: TY
Run Time: 10/08/99 16:02:01 PR49909138
Comment: J3 DATA FILE;9910085/802 SEM
Mode: CONC Corr. Factor: 1

Elem	Pb2203	Cd2265	Al3082	Ca3179	Fe2714	Mg2790	Mn2576
Units	ppb	ppb	ppm	ppm	ppm	ppm	ppm
Avge	1.416	-.3111	.0052	-.0034	.0202	.0057	.0001
SDev	.944	.0687	.0010	.0024	.0083	.0011	.0000
%RSD	66.66	22.09	20.20	70.71	40.94	20.17	.0512
#1	2.084	-.2625	.0059	-.0051	.0260	.0065	.0001
#2	.7487	-.3598	.0044	-.0017	.0143	.0049	.0001

Elem	V_2924	P1	P2
Units	ppm	ppb	ppb
Avge	.0006	3.939	.1568
SDev	.0003	1.115	1.972
%RSD	47.18	28.29	1258.
#1	.0008	3.151	1.551
#2	.0004	4.727	-1.238

Method: 802A Sample Name: T2CRDL;CRI Operator: TY
Run Time: 10/08/99 16:05:03 MW99C176
Comment: J3 DATA FILE;9910085/802 SEM
Mode: CONC Corr. Factor: 1

Elem	Pb2203	Cd2265	Al3082	Ca3179	Fe2714	Mg2790	Mn2576
Units	ppb	ppb	ppm	ppm	ppm	ppm	ppm
Avge	6.312	9.976	.0215	-.0236	.0669	.0172	.0296
SDev	.947	.164	.0042	.0071	.0143	.0069	.0005
%RSD	15.00	1.645	19.51	30.30	21.32	39.81	1.799
#1	6.981	10.09	.0185	-.0286	.0568	.0124	.0299
#2	5.642	9.860	.0245	-.0185	.0770	.0221	.0292

Elem	V_2924	P1	P2

Units	ppm	ppb	ppb
Avge	.0981	9.300	4.820
SDev	.0006	.672	1.085
%RSD	.5765	7.221	22.50
#1	.0985	9.775	5.586
#2	.0977	8.825	4.053

Method: 802A Sample Name: ICSA;ICSA Operator: TY
Run Time: 10/08/99 16:08:04
Comment: J3 DATA FILE;9910085/802 SEM MW991013B
Mode: CONC Corr. Factor: 1

Elem	Pb2203	Cd2265	Al3082	Ca3179	Fe2714	Mg2790	Mn2576
Units	ppb	ppb	ppm	ppm	ppm	ppm	ppm
Avge	-.5069	3.357	455.5	460.6	184.1	462.0	-.0140
SDev	1.5336	.086	.2	1.6	.5	1.5	.0002
%RSD	302.5	2.562	.0490	.3494	.2609	.3139	1.167
#1	-1.591	3.296	455.3	459.4	183.8	461.0	-.0141
#2	.5775	3.417	455.7	461.7	184.4	463.0	-.0139

Elem	V_2924	P1	P2
Units	ppm	ppb	ppb
Avge	-.0365	19.92	-10.70
SDev	.0005	.23	2.41
%RSD	1.384	1.162	22.56
#1	-.0368	20.08	-12.41
#2	-.0361	19.75	-8.995

Method: 802A Sample Name: ICSAB4;ICSAB Operator: TY
Run Time: 10/08/99 16:11:06 MW990913C
Comment: J3 DATA FILE;9910085/802 SEM
Mode: CONC Corr. Factor: 1

Elem	Pb2203	Cd2265	Al3082	Ca3179	Fe2714	Mg2790	Mn2576
Units	ppb	ppb	ppm	ppm	ppm	ppm	ppm
Avge	45.38	49.08	481.7	481.8	193.1	481.8	.4423
SDev	1.23	.67	5.4	3.1	1.4	3.2	.0032
%RSD	2.707	1.363	1.118	.6458	.7172	.6610	.7265
#1	44.52	49.55	485.5	484.0	194.1	484.1	.4446
#2	46.25	48.60	477.9	479.6	192.1	479.6	.4401

Elem	V_2924	P1	P2
Units	ppm	ppb	ppb
Avge	.4283	63.14	36.52
SDev	.0026	.72	2.20
%RSD	.6069	1.136	6.023
#1	.4302	63.65	34.96
#2	.4265	62.64	38.07

Method: 802A Sample Name: TICPCCV;CCV Operator: TY
Run Time: 10/08/99 16:14:07
Comment: J3 DATA FILE;9910085/802 SEM
Mode: CONC Corr. Factor: 1

Elem	Pb2203	Cd2265	Al3082	Ca3179	Fe2714	Mg2790	Mn2576
Units	ppb	ppb	ppm	ppm	ppm	ppm	ppm
Avge	51.96	25.16	.5577	1.197	.3427	1.208	.0979
SDev	.26	.21	.0844	.090	.0413	.085	.0002
%RSD	.4941	.8529	15.13	7.558	12.05	7.014	.1862
#1	51.78	25.01	.6173	1.261	.3719	1.268	.0978
#2	52.14	25.31	.4980	1.133	.3135	1.148	.0980

Elem	V_2924	P1	P2
Units	ppm	ppb	ppb
Avge	.0976	53.21	51.34
SDev	.0000	1.30	1.03
%RSD	.0099	2.444	2.014
#1	.0976	54.13	50.61
#2	.0976	52.29	52.07

Method: 802A Sample Name: CCB;CCB Operator: TY
Run Time: 10/08/99 16:17:08
Comment: J3 DATA FILE;9910085/802 SEM
Mode: CONC Corr. Factor: 1

Elem	Pb2203	Cd2265	Al3082	Ca3179	Fe2714	Mg2790	Mn2576
Units	ppb	ppb	ppm	ppm	ppm	ppm	ppm
Avge	.6093	-.1587	.0256	.0084	.0244	.0235	.0001
SDev	.7956	.2533	.0079	.0095	.0023	.0080	.0000
%RSD	130.6	159.5	30.74	113.1	9.237	34.16	.3878
#1	1.172	.0203	.0200	.0017	.0260	.0178	.0001
#2	.0467	-.3378	.0311	.0152	.0228	.0291	.0001

Elem	V_2924	P1	P2
Units	ppm	ppb	ppb
Avge	.0006	4.595	-1.381
SDev	.0003	.115	1.135
%RSD	47.52	2.502	82.23
#1	.0008	4.677	-.5778
#2	.0004	4.514	-2.184

Method: 802A Sample Name: PBS;PBS#802 SEM Operator: TY
Run Time: 10/08/99 16:20:10
Comment: J3 DATA FILE;9910085/802 SEM
Mode: CONC Corr. Factor: 1

Elem	Pb2203	Cd2265	Al3082	Ca3179	Fe2714	Mg2790	Mn2576
Units	ppb	ppb	ppm	ppm	ppm	ppm	ppm
Avge	H12.09	.2854	1.646	.0926	.8179	.0806	.0128
SDev	.18	.1488	.018	.0048	.0083	.0023	.0000
%RSD	1.526	52.13	1.082	5.143	1.010	2.847	.0085

#1	H12.22	.1802	1.659	.0892	.8238	.0790	.0128
#2	H11.96	.3907	1.633	.0960	.8121	.0822	.0128

Elem	V_2924	P1	P2
Units	ppm	ppb	ppb
Avge	.0020	11.12	12.58
SDev	.0003	.99	.22
%RSD	14.17	8.902	1.729
#1	.0018	11.82	12.43
#2	.0022	10.42	12.73

Method: 802A Sample Name: 990802-05;S SEM Operator: TY
Run Time: 10/08/99 16:23:14 Dec 68
Comment: J3 DATA FILE;9910085/802 SEM
Mode: CONC Corr. Factor: 1

Elem	Pb2203	Cd2265	Al3082	Ca3179	Fe2714	Mg2790	Mn2576
Units	ppb	ppb	ppm	ppm	ppm	ppm	ppm
Avge	293.1	1.404	111.0	46.06	143.9	20.29	2.852
SDev	1.2	.054	.0	.02	.0	.01	.000
%RSD	.4073	3.814	.0033	.0465	.0324	.0714	.0124
#1	293.9	1.442	111.0	46.04	143.8	20.28	2.852
#2	292.3	1.367	111.0	46.07	143.9	20.30	2.852

Elem	V_2924	P1	P2
Units	ppm	ppb	ppb
Avge	.1978	298.0	290.7
SDev	.0006	2.6	.5
%RSD	.2871	.8789	.1660
#1	.1982	299.8	291.0
#2	.1974	296.1	290.3

SEM
Method: 802A Sample Name: -05;S2 Dup Operator: TY
Run Time: 10/08/99 16:26:15 Dec 68
Comment: J3 DATA FILE;9910085/802 SEM
Mode: CONC Corr. Factor: 1

Elem	Pb2203	Cd2265	Al3082	Ca3179	Fe2714	Mg2790	Mn2576
Units	ppb	ppb	ppm	ppm	ppm	ppm	ppm
Avge	288.0	1.719	109.4	40.81	145.0	19.36	3.026
SDev	3.7	.253	.9	.25	.9	.11	.020
%RSD	1.267	14.74	.8529	.6009	.6314	.5635	.6594
#1	290.6	1.540	110.1	40.98	145.6	19.44	3.040
#2	285.5	1.898	108.8	40.64	144.4	19.29	3.012

Elem	V_2924	P1	P2
Units	ppm	ppb	ppb
Avge	.1958	292.2	286.0
SDev	.0010	2.1	4.4
%RSD	.5005	.7223	1.545

#1	.1965	293.7	289.1
#2	.1951	290.7	282.9

Method: 802A Sample Name: -05;ISD/5 SEM L5X Operator: TY
Run Time: 10/08/99 16:29:16 D00065
Comment: J3 DATA FILE;9910085/802 SEM
Mode: CONC Corr. Factor: 1

Elem	Pb2203	Cd2265	Al3082	Ca3179	Fe2714	Mg2790	Mn2576
Units	ppb	ppb	ppm	ppm	ppm	ppm	ppm
Avge	55.06	.0741	20.06	8.641	27.43	3.809	.5430
SDev	4.94	.0266	1.52	.643	1.99	.287	.0398
%RSD	8.964	35.95	7.559	7.439	7.237	7.542	7.321
#1	51.57	.0929	18.99	8.186	26.03	3.605	.5149
#2	58.55	.0552	21.14	9.095	28.83	4.012	.5711

Elem	V_2924	P1	P2
Units	ppm	ppb	ppb
Avge	.0382	62.48	51.36
SDev	.0028	5.18	4.81
%RSD	7.375	8.289	9.374
#1	.0362	58.82	47.95
#2	.0402	66.14	54.76

Method: 802A Sample Name: -05;PS SEM Post Spk Operator: TY
Run Time: 10/08/99 16:32:18 D00068
Comment: J3 DATA FILE;9910085/802 SEM
Mode: CONC Corr. Factor: 1

Elem	Pb2203	Cd2265	Al3082	Ca3179	Fe2714	Mg2790	Mn2576
Units	ppb	ppb	ppm	ppm	ppm	ppm	ppm
Avge	394.2	45.74	111.6	46.41	144.9	20.47	2.867
SDev	5.3	.34	.2	.04	.2	.03	.003
%RSD	1.352	.7331	.1921	.0923	.1390	.1263	.0984
#1	398.0	45.50	111.4	46.38	144.7	20.45	2.865
#2	390.4	45.98	111.7	46.44	145.0	20.49	2.869

Elem	V_2924	P1	P2
Units	ppm	ppb	ppb
Avge	.1992	395.2	393.7
SDev	.0005	5.1	5.4
%RSD	.2664 -	1.300	1.377
#1	.1989	398.8	397.5
#2	.1996	391.6	389.9

Method: 802A Sample Name: -06;S SEM D00069 Operator: TY
Run Time: 10/08/99 16:35:19
Comment: J3 DATA FILE;9910085/802 SEM

Mode: CONC Corr. Factor: 1

Elem	Pb2203	Cd2265	Al3082	Ca3179	Fe2714	Mg2790	Mn2576
Units	ppb	ppb	ppm	ppm	ppm	ppm	ppm
Avge	172.6	-.2144	39.57	23.75	54.37	10.57	1.313
SDev	2.0	.1590	.57	.29	.75	.13	.018
%RSD	1.167	74.16	1.430	1.213	1.373	1.235	1.332
#1	174.1	-.1019	39.97	23.95	54.89	10.66	1.326
#2	171.2	-.3268	39.17	23.54	53.84	10.48	1.301

Elem	V_2924	P1	P2
Units	ppm	ppb	ppb
Avge	.0649	182.6	167.7
SDev	.0005	8.7	1.3
%RSD	.7042	4.755	.7832
#1	.0652	188.7	166.7
#2	.0646	176.5	168.6

Method: 802A Sample Name: -07;S SEM Operator: TY
Run Time: 10/08/99 16:38:20
Comment: J3 DATA FILE;9910085/802 SEM D00070
Mode: CONC Corr. Factor: 1

Elem	Pb2203	Cd2265	Al3082	Ca3179	Fe2714	Mg2790	Mn2576
Units	ppb	ppb	ppm	ppm	ppm	ppm	ppm
Avge	778.3	.3044	81.54	30.84	115.8	20.19	3.955
SDev	5.8	.0058	.82	.32	1.3	.23	.039
%RSD	.7493	1.900	1.0000	1.027	1.137	1.133	.9749
#1	774.2	.3084	80.97	30.62	114.9	20.02	3.928
#2	782.4	.3003	82.12	31.06	116.8	20.35	3.982

Elem	V_2924	P1	P2
Units	ppm	ppb	ppb
Avge	.1605	785.0	774.9
SDev	.0021	13.5	2.0
%RSD	1.296	1.715	.2608
#1	.1590	775.5	773.5
#2	.1620	794.5	776.3

Method: 802A Sample Name: -08;S SEM Operator: TY
Run Time: 10/08/99 16:41:21
Comment: J3 DATA FILE;9910085/802 SEM D00071
Mode: CONC Corr. Factor: 1

Elem	Pb2203	Cd2265	Al3082	Ca3179	Fe2714	Mg2790	Mn2576
Units	ppb	ppb	ppm	ppm	ppm	ppm	ppm
Avge	593.5	3.318	172.6	28.35	120.9	23.17	1.446
SDev	1.9	.210	.8	.09	.4	.09	.005
%RSD	.3145	6.343	.4469	.3023	.3665	.3763	.3273
#1	594.8	3.466	172.1	28.29	120.6	23.11	1.441
#2	592.2	3.169	173.1	28.41	121.2	23.23	1.450

Elem	V_2924	P1	P2
Units	ppm	ppb	ppb
Avge	.2190	596.9	591.8
SDev	.0010	9.3	1.8
%RSD	.4720	1.559	.3120
#1	.2183	603.5	590.5
#2	.2198	590.3	593.1

Method: 802A Sample Name: TICPCCV;CCV Operator: TY
Run Time: 10/08/99 16:44:22
Comment: J3 DATA FILE;9910085/802 SEM MW9903276
Mode: CONC Corr. Factor: 1

Elem.	Pb2203	Cd2265	Al3082	Ca3179	Fe2714	Mg2790	Mn2576
Units	ppb	ppb	ppm	ppm	ppm	ppm	ppm
Avge	49.22	24.15	.4806	1.012	.3162	1.043	.0950
SDev	.34	.37	.0550	.010	.0398	.004	.0000
%RSD	.6852	1.527	11.45	.9412	12.59	.4007	.0035
#1	48.98	23.89	.5195	1.018	.3444	1.046	.0950
#2	49.46	24.41	.4417	1.005	.2881	1.040	.0950

Elem	V_2924	P1	P2
Units	ppm	ppb	ppb
Avge	.0936	51.74	47.97
SDev	.0000	1.10	1.06
%RSD	.0079	2.128	2.200
#1	.0936	52.52	47.22
#2	.0936	50.96	48.71

Method: 802A Sample Name: CCB;CCB Operator: TY
Run Time: 10/08/99 16:47:23
Comment: J3 DATA FILE;9910085/802 SEM MR990913B
Mode: CONC Corr. Factor: 1

Elem	Pb2203	Cd2265	Al3082	Ca3179	Fe2714	Mg2790	Mn2576
Units	ppb	ppb	ppm	ppm	ppm	ppm	ppm
Avge	.1192	-.3795	.0289	-.0152	.0154	.0054	.0004
SDev	.3884	.2793	.0115	.0000	.0060	.0008	.0000
%RSD	325.7	73.61	39.89	.0000	39.02	14.21	.1881
#1	.3938	-.1820	.0371	-.0152	.0112	.0059	.0004
#2	-.1554	-.5770	.0208	-.0152	.0197	.0048	.0004

Elem	V_2924	P1	P2
Units	ppm	ppb	ppb
Avge	.0002	6.094	-2.864
SDev	.0003	4.577	2.868
%RSD	143.8	75.12	100.1
#1	.0004	2.857	-.8359
#2	-.0000	9.331	-4.891

Method: 802A Sample Name: T2CRDL;CRI Operator: TY
Run Time: 10/08/99 16:50:25
Comment: J3 DATA FILE;9910085/802 SEM mw991076
Mode: CONC Corr. Factor: 1

Elem	Pb2203	Cd2265	Al3082	Ca3179	Fe2714	Mg2790	Mn2576
Units	ppb	ppb	ppm	ppm	ppm	ppm	ppm
Avge	6.678	10.04	.0289	-.0269	.0637	.0202	.0292
SDev	.172	.15	.0031	.0024	.0113	.0050	.0003
%RSD	2.572	1.519	10.88	8.839	17.68	24.52	1.215
#1	6.799	9.929	.0267	-.0286	.0558	.0167	.0294
#2	6.556	10.15	.0311	-.0253	.0717	.0237	.0289

Elem	V_2924	P1	P2
Units	ppm	ppb	ppb
Avge	.0969	9.909	5.065
SDev	.0011	.829	.156
%RSD	1.165	8.363	3.086
#1	.0977	10.50	4.954
#2	.0961	9.323	5.175

Method: 802A Sample Name: ICSA;ICSA Operator: TY
Run Time: 10/08/99 16:53:26
Comment: J3 DATA FILE;9910085/802 SEM mw991013B
Mode: CONC Corr. Factor: 1

Elem	Pb2203	Cd2265	Al3082	Ca3179	Fe2714	Mg2790	Mn2576
Units	ppb	ppb	ppm	ppm	ppm	ppm	ppm
Avge	-1.759	3.181	467.4	469.2	187.3	471.6	-.0145
SDev	.540	.123	12.0	8.3	3.7	8.3	.0006
%RSD	30.71	3.855	2.574	1.772	1.955	1.754	3.844
#1	-2.141	3.094	475.9	475.1	189.8	477.4	-.0149
#2	-1.377	3.268	458.9	463.4	184.7	465.7	-.0141

Elem	V_2924	P1	P2
Units	ppm	ppb	ppb
Avge	-.0378	18.32	-11.78
SDev	.0020	1.50	1.56
%RSD	5.336	8.195	13.23
#1	-.0392	19.38	-12.89
#2	-.0364	17.26	-10.68

Method: 802A Sample Name: ICSAB4;ICSAB Operator: TY
Run Time: 10/08/99 16:56:28
Comment: J3 DATA FILE;9910085/802 SEM mw991013C
Mode: CONC Corr. Factor: 1

Elem	Pb2203	Cd2265	Al3082	Ca3179	Fe2714	Mg2790	Mn2576
Units	ppb	ppb	ppm	ppm	ppm	ppm	ppm

Avge	43.92	47.20	469.9	473.4	188.7	474.7	.4333
SDev	.84	.14	1.0	1.1	.4	1.1	.0010
%RSD	1.911	.2967	.2168	.2278	.2196	.2345	.2309
#1	43.33	47.10	469.2	472.7	188.4	473.9	.4326
#2	44.51	47.30	470.6	474.2	189.0	475.5	.4340

Elem	V_2924	P1	P2
Units	ppm	ppb	ppb
Avge	.4202	61.32	35.23
SDev	.0010	.32	1.42
%RSD	.2425	.5241	4.026
#1	.4195	61.55	34.23
#2	.4209	61.09	36.24

Method: 802A Sample Name: TICPCCV;CCV Operator: TY
Run Time: 10/08/99 16:59:29
Comment: J3 DATA FILE;9910085/802 SEM MW990276
Mode: CONC Corr. Factor: 1

Elem	Pb2203	Cd2265	Al3082	Ca3179	Fe2714	Mg2790	Mn2576
Units	ppb	ppb	ppm	ppm	ppm	ppm	ppm
Avge	50.57	24.76	.6540	1.271	.3900	1.286	.0971
SDev	.83	.56	.2667	.262	.1291	.260	.0009
%RSD	1.644	2.273	40.78	20.60	33.11	20.18	.9283
#1	51.16	24.37	.8426	1.456	.4812	1.469	.0965
#2	49.98	25.16	.4654	1.086	.2987	1.102	.0978

Elem	V_2924	P1	P2
Units	ppm	ppb	ppb
Avge	.0968	54.42	48.65
SDev	.0006	2.10	2.30
%RSD	.6138	3.863	4.720
#1	.0964	52.93	50.27
#2	.0972	55.91	47.02

Method: 802A Sample Name: CCB;CCB Operator: TY
Run Time: 10/08/99 17:02:30 MR990913B
Comment: J3 DATA FILE;9910085/802 SEM
Mode: CONC Corr. Factor: 1

Elem	Pb2203	Cd2265	Al3082	Ca3179	Fe2714	Mg2790	Mn2576
Units	ppb	ppb	ppm	ppm	ppm	ppm	ppm
Avge	.4309	-.2128	.0422	.0269	.0446	.0364	.0002
SDev	.0931	.2034	.0220	.0262	.0338	.0278	.0002
%RSD	21.61	95.60	52.10	97.23	75.76	76.47	70.90
#1	.3651	-.0689	.0578	.0455	.0685	.0561	.0004
#2	.4967	-.3566	.0267	.0084	.0207	.0167	.0001

Elem	V_2924	P1	P2
Units	ppm	ppb	ppb

Avge	.0020	5.016	-1.858
SDev	.0017	4.301	2.287
%RSD	84.92	85.75	123.1
#1	.0032	8.057	-3.475
#2	.0008	1.975	-.2410

TY 10/8/99

Method: 802A Standard: OSTANDARD MW990913A

Elem	Cu3247	Ni2316	Zn2138	Al3082	Ca3706	Fe2599	Mg3832
Avge	.00030	.00000	.00010	.00460	.07040	.00170	-.01010
SDev	.00014	.00028	.00014	.00141	.00028	.00071	.00071
%RSD	47.140	.00000	141.42	30.744	.40176	41.595	7.0011
#1	.00040	-.00020	.00020	.00560	.07060	.00220	-.00960
#2	.00020	.00020	.00000	.00360	.07020	.00120	-.01060

Elem	Mo2576	V_2924
Avge	.00080	-.00060
SDev	.00000	.00028
%RSD	.00000	47.140
#1	.00080	-.00040
#2	.00080	-.00080

Method: 802A Standard: STANDARD5 MW990923B

Elem	Cu3247	Ni2316	Zn2138	Mo2576
Avge	.32450	.95420	.61460	.97660
SDev	.00269	.01329	.00707	.01160
%RSD	.82805	1.3932	1.1505	1.1874
#1	.32260	.94480	.60960	.96840
#2	.32640	.96360	.61960	.98480

Method: 802A Standard: STANDARD3 MW990923A

Elem	Al3082	Ca3706	Fe2599	Mg3832
Avge	2.0657	.70580	3.8796	3.8275
SDev	.0072	.00481	.0150	.0126
%RSD	.34916	.68126	.38640	.32885
#1	2.0606	.70240	3.8690	3.8186
#2	2.0708	.70920	3.8902	3.8364

Method: 802A Standard: STANDARD4 MW990717I

Elem	V_2924
Avge	.65900
SDev	.00735
%RSD	1.1159
#1	.65380
#2	.66420

Method: 802A Sample Name: JICPICV;ICV Operator: TY
Run Time: 10/08/99 16:14:16 MW990904175
Comment: J4 DATA FILE;9910085/802 SEM
Mode: CONC Corr. Factor: 1

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Elem	Cu3247	Ni2316	Zn2138	Al3082	Ca3706	Fe2599	Mg3832

Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.59317	1.1883	1.1870	4.9446	12.408	2.4655	12.254
SDev	.00435	.0044	.0034	.0288	.011	.0124	.074
%RSD	.73282	.37414	.28760	.58155	.09031	.50231	.60147
#1	.59625	1.1915	1.1894	4.9650	12.400	2.4743	12.306
#2	.59010	1.1852	1.1846	4.9243	12.416	2.4567	12.202

Elem	Mn2576	V_2924
Units	ppm	ppm
Avge	1.2000	1.2338
SDev	.0036	.0032
%RSD	.30212	.26085
#1	1.2025	1.2360
#2	1.1974	1.2315

Method: 802A Sample Name: ICB;ICB Operator: TY
Run Time: 10/08/99 16:16:51 MK99-1130
Comment: J4 DATA FILE;9910085/802 SEM
Mode: CONC Corr. Factor: 1

Elem	Cu3247	Ni2316	Zn2138	Al3082	Ca3706	Fe2599	Mg3832
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00075	.00210	.00160	.01643	.09433	.00155	.10553
SDev	.00433	.00889	.00122	.02871	.04445	.00182	.07370
%RSD	578.75	424.30	76.055	174.75	47.127	117.85	69.838
#1	-.00231	-.00419	.00246	-.00387	.06289	.00026	.05342
#2	.00381	.00838	.00074	.03673	.12576	.00284	.15765

Elem	Mn2576	V_2924
Units	ppm	ppm
Avge	.00410	.00455
SDev	.00000	.00643
%RSD	.00257	141.42
#1	.00410	.00000
#2	.00410	.00910

Method: 802A Sample Name: J2CRDL;CRI Operator: TY
Run Time: 10/08/99 16:19:26 MN991005C
Comment: J4 DATA FILE;9910085/802 SEM
Mode: CONC Corr. Factor: 1

Elem	Cu3247	Ni2316	Zn2138	Al3082	Ca3706	Fe2599	Mg3832
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.04884	.07493	.04723	.01077	.10882	.01006	.03388
SDev	.00110	.00222	.00001	.03429	.00002	.00292	.04606
%RSD	2.2438	2.9671	.00978	318.38	.01393	29.010	135.98
#1	.04962	.07650	.04722	-.01348	.10881	.00799	.00130
#2	.04807	.07336	.04723	.03502	.10883	.01212	.06645

Elem	Mn2576	V_2924

Units	ppm	ppm
Avge	.03023	.10234
SDev	.00217	.00107
%RSD	7.1896	1.0480
#1	.03177	.10158
#2	.02870	.10309

Method: 802A Sample Name: ICSA;ICSA Operator: TY
Run Time: 10/08/99 16:22:01
Comment: J4 DATA FILE;9910085/802 SEM MW 9909138
Mode: CONC Corr. Factor: 1

Elem	Cu3247	Ni2316	Zn2138	Al3082	Ca3706	Fe2599	Mg3832
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00525	-.00157	-.00475	477.14	457.77	177.33	467.20
SDev	.00201	.00074	.00026	6.04	5.67	2.16	5.32
%RSD	38.303	47.153	5.5042	1.2654	1.2292	1.2181	1.1378
#1	-.00383	-.00105	-.00456	472.87	453.79	175.80	463.44
#2	-.00667	-.00210	-.00493	481.41	461.74	178.86	470.95

Elem	Mn2576	V_2924
Units	ppm	ppm
Avge	.00606	.00829
SDev	.00110	.00038
%RSD	18.177	4.5587
#1	.00529	.00802
#2	.00684	.00856

Method: 802A Sample Name: ICSA84;ICSAP Operator: TY
Run Time: 10/08/99 16:24:35
Comment: J4 DATA FILE;9910085/802 SEM MW9910085D
Mode: CONC Corr. Factor: 1

Elem	Cu3247	Ni2316	Zn2138	Al3082	Ca3706	Fe2599	Mg3832
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.46931	.87499	.92619	491.43	469.97	182.03	481.51
SDev	.00447	.01186	.00212	.67	2.87	1.06	1.18
%RSD	.95160	1.3551	.22912	.13639	.61046	.58240	.24606
#1	.46615	.86660	.92469	490.95	467.95	181.28	482.34
#2	.47247	.88337	.92769	491.90	472.00	182.78	480.67

Elem	Mn2576	V_2924
Units	ppm	ppm
Avge	.45215	.47758
SDev	.00311	.00019
%RSD	.68662	.03884
#1	.44996	.47745
#2	.45435	.47771

Method: 802A Sample Name: JICPCCV;CCV Operator: TY
Run Time: 10/08/99 16:27:09
Comment: J4 DATA FILE;9910085/802 SEM MW991016
Mode: CONC Corr. Factor: 1

Elem	Cu3247	Ni2316	Zn2138	Al3082	Ca3706	Fe2599	Mg3832
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.2256	2.3934	2.3982	10.197	24.981	5.0202	25.102
SDev	.0023	.0222	.0102	.085	.078	.0449	.182
%RSD	.18557	.92883	.42519	.83105	.31047	.89351	.72670
#1	1.2240	2.4091	2.4054	10.257	25.036	5.0520	25.231
#2	1.2272	2.3777	2.3910	10.138	24.926	4.9885	24.973

Elem	Mn2576	V_2924
Units	ppm	ppm
Avge	2.4256	2.4887
SDev	.0058	.0193
%RSD	.23934	.77565
#1	2.4297	2.5024
#2	2.4215	2.4751

Method: 802A Sample Name: CCB;CCB Operator: TY
Run Time: 10/08/99 16:29:44 ~~MW991016CCB~~ 10/8/99
Comment: J4 DATA FILE;9910085/802 SEM MR991016A
Mode: CONC Corr. Factor: 1

Elem	Cu3247	Ni2316	Zn2138	Al3082	Ca3706	Fe2599	Mg3832
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00228	.00210	-.00004	.07460	.03337	.03343	.13029
SDev	.00001	.00296	.00116	.01786	.01131	.01422	.02764
%RSD	.29547	141.43	2631.3	23.943	33.367	46.741	21.213
#1	.00229	-.00000	.00078	.08723	.04702	.04049	.11075
#2	.00228	.00419	-.00087	.06197	.03131	.02037	.14983

Elem	Mn2576	V_2924
Units	ppm	ppm
Avge	.00410	.00683
SDev	.00000	.00107
%RSD	.06539	15.665
#1	.00411	.00607
#2	.00410	.00758

Method: 802A Sample Name: PBS;PBS#802 SEM Operator: TY
Run Time: 10/08/99 16:32:20
Comment: J4 DATA FILE;9910085/802 SEM 0914 PBS
Mode: CONC Corr. Factor: 1

Elem	Cu3247	Ni2316	Zn2138	Al3082	Ca3706	Fe2599	Mg3832
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00159	.00260	H.21226	H1.6253	.10069	H.68336	.18501
SDev	.00547	.00074	.00230	.0068	.01116	.00109	.03501
%RSD	344.37	28.506	1.0812	.41846	11.082	.16010	18.923

#1	-.00228	.00312	H.21388	H1.6301	.09280	H.68413	.20977
#2	.00546	.00207	H.21064	H1.6205	.10858	H.68259	.16026

Elem	Mn2576	V_2924
Units	ppm	ppm
Avge	H.01549	.00239
SDev	.00000	.00322
%RSD	.00102	134.36
#1	H.01549	.00467
#2	H.01549	.00012

Method: 802A Sample Name: 990802-05;S SEM Operator: TY
Run Time: 10/08/99 16:35:07
Comment: J4 DATA FILE;9910085/802 SEM Dec 0.18
Mode: CONC Corr. Factor: 1

Elem	Cu3247	Ni2316	Zn2138	Al3082	Ca3706	Fe2599	Mg3832
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.10872	.15961	2.0571	113.87	45.897	135.92	19.613
SDev	.00339	.00519	.0274	.52	.564	1.44	.240
%RSD	3.1149	3.2482	1.3318	.45798	1.2292	1.0561	1.2213
#1	.11112	.16328	2.0764	114.24	46.296	136.93	19.782
#2	.10633	.15595	2.0377	113.50	45.499	134.90	19.443

Elem	Mn2576	V_2924
Units	ppm	ppm
Avge	3.1072	.24512
SDev	.0343	.00454
%RSD	1.1052	1.8518
#1	3.1315	.24834
#2	3.0829	.24192

Method: 802A Sample Name: -05;S2 SEM Operator: TY
Run Time: 10/08/99 16:37:49 Dup
Comment: J4 DATA FILE;9910085/802 SEM Dec 0.18
Mode: CONC Corr. Factor: 1

Elem	Cu3247	Ni2316	Zn2138	Al3082	Ca3706	Fe2599	Mg3832
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.12506	.21472	1.2284	112.98	40.573	137.14	18.839
SDev	.00220	.00741	.0023	.11	.078	.01	.103
%RSD	1.7606	3.4514	.19061	.09604	.19204	.00372	.54773
#1	.12662	.20948	1.2301	113.05	40.628	137.13	18.766
#2	.12351	.21996	1.2267	112.90	40.518	137.14	18.912

Elem	Mn2576	V_2924
Units	ppm	ppm
Avge	3.3053	.24231
SDev	.0022	.00429
%RSD	.06571	1.7700

#1	3.3068	.23928
#2	3.3037	.24535

Method: 802A Sample Name: -05;[illegible] SEM L;SX Operator: TY
Run Time: 10/08/99 16:40:31 Doc 68
Comment: J4 DATA FILE;9910085/802 SEM
Mode: [illegible] Corr. Factor: 1

Elem	Cu3247	Ni2316	Zn2138	Al3082	Ca3706	Fe2599	Mg3832
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.01549	.01831	.30332	15.945	6.2584	19.139	2.7517
SDev	.00136	.00075	.04682	2.380	1.0951	2.836	.4477
%RSD	8.7772	4.0729	15.436	14.924	17.497	15.082	16.271
#1	.01453	.01884	.27021	14.262	5.4841	17.098	2.4351
#2	.01645	.01778	.33643	17.628	7.0327	21.180	3.0683

Elem	Mn2576	V_2924
Units	ppm	ppm
Avge	.43717	.03822
SDev	.06432	.00051
%RSD	14.714	1.3217
#1	.39169	.03786
#2	.48266	.03858

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Method: 802A Sample Name: -05;PS Operator: TY
Run Time: 10/08/99 16:43:12
Comment: J4 DATA FILE;9910085/802 SEM
Mode: [illegible] Corr. Factor: 1

Elem	Cu3247	Ni2316	Zn2138	Al3082	Ca3706	Fe2599	Mg3832
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.21529	.35344	2.6010	114.61	55.749	135.22	29.930
SDev	.00672	.01556	.0249	1.52	1.163	2.32	.599
%RSD	3.1202	4.4023	.95828	1.3243	2.0860	1.7158	2.0008
#1	.21054	.34244	2.5834	113.54	54.927	133.58	29.507
#2	.22004	.36444	2.6187	115.68	56.571	136.86	30.354

Elem	Mn2576	V_2924
Units	ppm	ppm
Avge	3.1706	.34659
SDev	.0606	.00898
%RSD	1.9112	2.5916
#1	3.1278	.34024
#2	3.2135	.35294

Method: 802A Sample Name: -06;S SEM Operator: TY
Run Time: 10/08/99 16:45:47 Doc 69
Comment: J4 DATA FILE;9910085/802 SEM

Mode: CONC Corr. Factor: 1

Elem	Cu3247	Ni2316	Zn2138	Al3082	Ca3706	Fe2599	Mg3832
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.02960	.03714	.65012	38.952	22.091	48.178	9.4734
SDev	.00325	.00519	.00228	.129	.000	.092	.1290
%RSD	8.2149	13.967	.35077	.33116	.00093	.19150	1.3615
#1	.03190	.04081	.65173	38.873	22.091	48.113	9.3822
#2	.02730	.03347	.64851	39.053	22.091	48.243	9.5646

Elem	Mn2576	V_2924
Units	ppm	ppm
Avge	1.3313	.08120
SDev	.0029	.00213
%RSD	.21904	2.6205
#1	1.3292	.08271
#2	1.3333	.07970

Method: 802A Sample Name: -07;S SEM Operator: TY
Run Time: 10/08/99 16:48:21 D0070
Comment: J4 DATA FILE;9910085/802 SEM
Mode: CONC Corr. Factor: 1

Elem	Cu3247	Ni2316	Zn2138	Al3082	Ca3706	Fe2599	Mg3832
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.12884	.08943	1.7125	82.601	30.282	109.23	19.714
SDev	.00661	.00074	.0206	.641	.221	.81	.136
%RSD	5.1331	.83091	1.2028	.77586	.72823	.74418	.69165
#1	.13352	.08891	1.7270	83.054	30.438	109.81	19.811
#2	.12417	.08996	1.6979	82.148	30.127	108.65	19.618

Elem	Mn2576	V_2924
Units	ppm	ppm
Avge	4.3417	.19574
SDev	.0291	.00121
%RSD	.67123	.62036
#1	4.3623	.19660
#2	4.3211	.19488

Method: 802A Sample Name: -08;S SEM Operator: TY
Run Time: 10/08/99 16:50:54 D0071
Comment: J4 DATA FILE;9910085/802 SEM
Mode: CONC Corr. Factor: 1

Elem	Cu3247	Ni2316	Zn2138	Al3082	Ca3706	Fe2599	Mg3832
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.19843	.09310	1.7535	176.35	27.375	110.66	21.551
SDev	.00330	.00148	.0011	.81	.066	.33	.077
%RSD	1.6604	1.5921	.06299	.45910	.24128	.29693	.35909
#1	.19610	.09414	1.7527	175.78	27.329	110.43	21.497
#2	.20076	.09205	1.7542	176.93	27.422	110.89	21.606

Elem	Mn2576	V_2924
Units	ppm	ppm
Avge	1.5265	.26421
SDev	.0037	.00113
%RSD	.24118	.42751
#1	1.5239	.26341
#2	1.5291	.26501

Method: 802A Sample Name: JICPCCV;CCV Operator: TY
Run Time: 10/08/99 16:53:31
Comment: J4 DATA FILE;9910085/802 SEM MW991005B
Mode: CONC Corr. Factor: 1

Elem	Cu3247	Ni2316	Zn2138	Al3082	Ca3706	Fe2599	Mg3832
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.2356	2.3651	2.3748	10.125	24.211	4.9578	24.818
SDev	.0010	.0311	.0159	.001	.389	.0259	.116
%RSD	.08061	1.3159	.67024	.01072	1.6066	.52226	.46774
#1	1.2349	2.3431	2.3635	10.124	23.936	4.9395	24.736
#2	1.2363	2.3871	2.3860	10.125	24.486	4.9761	24.900

Elem	Mn2576	V_2924
Units	ppm	ppm
Avge	2.3943	2.4812
SDev	.0210	.0193
%RSD	.87791	.77790
#1	2.3795	2.4675
#2	2.4092	2.4948

Method: 802A Sample Name: CCB;CCB Operator: TY
Run Time: 10/08/99 16:56:05
Comment: J4 DATA FILE;9910085/802 SEM MR991009/3A
Mode: CONC Corr. Factor: 1

Elem	Cu3247	Ni2316	Zn2138	Al3082	Ca3706	Fe2599	Mg3832
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00150	.00314	.00320	.07551	-.14182	.03352	.13290
SDev	.00109	.00148	.00116	.00551	.02231	.00839	.01290
%RSD	72.251	47.149	36.338	7.3035	15.734	25.021	9.7054
#1	.00227	.00419	.00238	.07161	-.15760	.03945	.14202
#2	.00074	.00210	.00402	.07941	-.12604	.02759	.12378

Elem	Mn2576	V_2924
Units	ppm	ppm
Avge	.00257	.00834
SDev	.00218	.00107
%RSD	84.721	12.865
#1	.00411	.00910
#2	.00103	.00759

Method: 802A Sample Name: J2CRDL;CRI Operator: TY
Run Time: 10/08/99 16:58:39 MW991005C
Comment: J4 DATA FILE;9910085/802 SEM
Mode: CONC Corr. Factor: 1

Elem	Cu3247	Ni2316	Zn2138	Al3082	Ca3706	Fe2599	Mg3832
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.04731	.07598	.04642	.04766	-.10364	.02501	.10684
SDev	.00109	.00074	.00115	.00139	.01114	.00219	.04606
%RSD	2.2943	.97353	2.4695	2.9247	10.751	8.7477	43.116
#1	.04808	.07545	.04723	.04667	-.11152	.02656	.07427
#2	.04653	.07650	.04561	.04864	-.09576	.02347	.13941

Elem	Mn2576	V_2924
Units	ppm	ppm
Avge	.02972	.09931
SDev	.00000	.00107
%RSD	.00151	1.0799
#1	.02972	.10007
#2	.02972	.09855

Method: 802A Sample Name: ICSA;ICSA Operator: TY
Run Time: 10/08/99 17:01:13 MW991005B
Comment: J4 DATA FILE;9910085/802 SEM
Mode: CONC Corr. Factor: 1

Elem	Cu3247	Ni2316	Zn2138	Al3082	Ca3706	Fe2599	Mg3832
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00413	-.00210	-.00101	476.14	444.23	173.22	463.66
SDev	.00205	.00000	.00444	4.50	2.88	1.48	3.41
%RSD	49.659	.02117	438.79	.94604	.64816	.85204	.73439
#1	-.00268	-.00210	-.00415	472.96	442.20	172.18	461.25
#2	-.00558	-.00210	.00213	479.33	446.27	174.26	466.07

Elem	Mn2576	V_2924
Units	ppm	ppm
Avge	.00576	.01439
SDev	.00026	.00296
%RSD	4.4183	20.548
#1	.00558	.01649
#2	.00594	.01230

Method: 802A Sample Name: ICSAB4;ICSAB Operator: TY
Run Time: 10/08/99 17:03:47
Comment: J4 DATA FILE;9910085/802 SEM MW991005D
Mode: CONC Corr. Factor: 1

Elem	Cu3247	Ni2316	Zn2138	Al3082	Ca3706	Fe2599	Mg3832
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm

Avge	.47987	.85874	.92574	493.13	459.51	179.49	481.34
SDev	.00896	.03186	.02119	8.41	10.44	3.38	7.85
%RSD	1.8667	3.7104	2.2885	1.7060	2.2724	2.1608	1.6315
#1	.47353	.83621	.91076	487.18	452.12	176.74	475.79
#2	.48620	.88127	.94072	499.07	466.89	182.23	486.90

Elem	Mn2576	V_2924
Units	ppm	ppm
Avge	.44702	.47410
SDev	.01012	.01783
%RSD	2.2640	3.7610
#1	.43986	.46149
#2	.45417	.48671

Method: 802A Sample Name: JICPCCS;CCV Operator: TY
Run Time: 10/08/99 17:06:22
Comment: J4 DATA FILE;9910085/802 SEM MR991005B
Mode: CONC Corr. Factor: 1

Elem	Cu3247	Ni2316	Zn2138	Al3082	Ca3706	Fe2599	Mg3832
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.2464	2.3384	2.3765	10.243	24.069	4.9199	24.974
SDev	.0010	.0126	.0160	.026	.055	.0073	.083
%RSD	.08144	.53867	.67334	.25721	.22972	.14825	.33201
#1	1.2457	2.3295	2.3652	10.262	24.030	4.9251	25.033
#2	1.2472	2.3473	2.3878	10.224	24.109	4.9148	24.915

Elem	Mn2576	V_2924
Units	ppm	ppm
Avge	2.3810	2.4766
SDev	.0167	.0150
%RSD	.69994	.60595
#1	2.3692	2.4660
#2	2.3928	2.4872

Method: 802A Sample Name: CCB;CCB MR990713A Operator: TY
Run Time: 10/08/99 17:08:56
Comment: J4 DATA FILE;9910085/802 SEM
Mode: CONC Corr. Factor: 1

Elem	Cu3247	Ni2316	Zn2138	Al3082	Ca3706	Fe2599	Mg3832
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00158	.00157	.00240	.06872	-.19689	.02862	.16286
SDev	.00109	.00074	.00230	.01510	.01114	.00802	.07739
%RSD	69.043	47.133	95.729	21.973	5.6597	28.029	47.518
#1	-.00235	.00210	.00403	.07939	-.18901	.03430	.10814
#2	-.00081	.00105	.00078	.05804	-.20477	.02295	.21758

Elem	Mn2576	V_2924
Units	ppm	ppm

Avge	.00257	.00759
Stdev	.00217	.00000
% Std	84.627	.01851
#1	.00103	.00759
#2	.00410	.00758

802

RCN/RS

Ceimic Corporation

Classical Chemistry Laboratory

Reactivity Logbook

Date	Ceimic ID	Client ID	Sample Wt/Vol	Final Vol	Analyst
9/15/00	PBS 091500	DI H_2O	250/250	250	[illegible]
	SC (200mg/L) RCN	1ml of 5ppm CN	250/250		
	SC (200mg/L) RCN	1ml of 5ppm CN	250/250		
	SC (200mg/L) RS	1ml of 10ppm $S^=$	250/250		
	J990906-01	[illegible]	10.22/250		
	-01 dup	[illegible]	10.20/250		
		9/15/00			
		[illegible]			
-- +					

Reagents and Source: 0.1N H_2SO_4: I590225E

1.25N NaOH: I990915D

10 ppm $S^=$: IW990915D → 1ml of 1000ppm in 100ml = 10ppm

5ppm CN: IW990915A

Review: KH 9/15/00

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QAT0122

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% Solids Logbook

Date/Time In	Date/Time Out	Ceimic ID	Client ID	Tare g	Wet weight Gross g	Wet weight Net g	Dry Weight Gross #1 g	Dry Weight Gross #2 g	Dry Weight Net g	% Solids	Analyst	Review By
9/9/99 16:05	9.10.99 9:50	990758-10	DC0001C	1.28	10.00	8.72	~~8.15~~ 8.12		6.84	78.4	AS	JDM 9/10/99
9/14/99 15:50	9/15/99 10:00	990802-05	DC0068	1.28	9.86	8.58	7.13		5.85	68.2		9/15/99
		-05dup	DC0068	1.28	10.51	9.23	7.65		6.37	69.0		
		-06	DC0069	1.27	9.40	8.13	7.87		6.60	81.2		
		-07	DC0070	1.27	9.62	8.35	6.84		5.57	66.7		
		-08	DC0071	1.28	9.92	8.64	7.29		6.01	69.6		
		990306-04	GN-DC06504	1.28	9.42	8.14	~~8.72~~ 8.50		7.22	88.7		
		-04dup	GN-DC06504	1.28	9.90	8.62	8.12		7.64	88.6		
9/17/99 10:10	9/17/99 13:00	990805-01	carbon1	1.28	7.58	6.30	6.25	6.24	4.96	78.7	JDM	9/17/99
		-02	carbon2	1.28	7.62	6.34	6.04	6.04	4.76	75.1		
		990816-03	GN-DC06703	1.27	8.02	6.75	6.63	6.64	~~6.63~~ 5.37	79.6		
9/17/99 13:51	9/18/99 10:25	990777-01	102-55-02	1.27	7.60	6.33	7.42		6.15	97.2		
		-02	-01	1.28	8.05	6.77	7.80		6.52	96.3		
		-03	102-30-01	1.28	8.77	7.51	8.36		7.08	94.3		
		-04	100-55-02	1.28	8.41	7.13	7.40		6.12	85.8		
		-05	100-55-01	1.28	7.11	5.83	6.35		5.07	~~86.~~ 87.0	TY 9/18/99	
		-05		1.28	9.63	8.35	8.71		7.43	89.0		
		-06	100-22-DD	1.28	7.79	6.51	7.09		5.81	89.2		

All weights must be carried out to 2 decimal places. Dry samples ≥ 12 hours at 103°C to 105°C. * Use only when proving constant weight.

% solids = (net dry weight/ net wet weight)*100

Miscellaneous Data

CEIMIC CORPORATION

Organic Preparation Laboratory / Sample Preparation Bench Sheets

Project#: 99080a
Client: Roy F. Weston
Blank ID: 50915-B3

Analytical Method: CLP
Extraction Method: Cont. liq. liq.
LCS ID: 50915-LCS3

Surr. Sol. ID: 0fW990830A
MS Sol. ID: 0fW990407A
Addt'l Spike ID: —

Prep Date/Time: 9/15/99 / ____
Analysis: 3020A
Matrix: Aqueous

IDENTIFICATION		EXTRACTION SECTION								EXTRACT CLEAN-UP SECTION								INIT & DATE TRANSFER		COMMENTS
										GC/MS			GC/LC							
Client ID	Ceimic ID	Vol/ Wt (ml/g)	Surr Vol (µl)	MS Vol (µl)	% Moist	pH	Acid pH	Basic pH	Final Ext Vol*	Clean Up Vol*	Post Clean Vol*	Vol Trans*	Clean Up Vol*	Post Clean Vol*	Florisil Vol*	Post Florisil Vol*	Vol Trans*	GC/ MS	GC/ LC	
	50915-B3	1000	500	—			<2	—	1mL			1mL						9/19/99	T	
	-LCS3			500																
D00064	50903-01			—											EC					
	-01 MS			500																
	-01 MSD																			
D00 65	-02														9/15/99					
66	-03																			
67	-04																			
76	-13																			
										EC										
										9/15/99										

*All volumes are in milliliters (ml) unless otherwise noted.

Extr.Solvent ID: M7325
Final Solvent ID: M7325
Container Lot #: —
Prepared by: JFC

Sodium Sulfate Lot #: M29591
Supervisor Init: [illegible]
Surrogate Added By: FC
Witnessed By: [illegible]

Reagents IDs:
☐ GPC X Y Z
☐ Silica
☐ Florisil
Lot #: ____

Comment Codes:
RE = Reextract
AL 2nd Aliquot

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P.E.

CEIMIC CORPORATION

Organic Preparation Laboratory / Sample Preparation Bench Sheets

Project#: 990802 | Analytical Method: CLP | Surr. Sol. ID: OPW990830A | Prep Date/Time: 9/10/99 / ____

Client: Roy F Weston | Extraction Method: Cont. Liq.-Liq. | MS Sol. ID: OPW990407A | Analysis: SVOA

Blank ID: 50916-B3 | LCS ID: 50916-LCS3 | Addt'l Spike ID: – | Matrix: PE Aqueous

IDENTIFICATION		EXTRACTION SECTION								EXTRACT CLEAN-UP SECTION								INIT & DATE TRANSFER		COMMENTS
										GC/MS			GC/LC							
Client ID	Ceimic ID	Vol/ Wt (ml/g)	Surr Vol (µl)	MS Vol (µl)	% Moist	pH	Acid pH	Basic pH	Final Ext Vol*	Clean Up Vol*	Post Clean Vol*	Vol Trans*	Clean Up Vol*	Post Clean Vol*	Florisil Vol*	Post Florisil Vol*	Vol Trans*	GC/ MS	GC/ LC	
	50916-B3	1000	500	-			<2	–	1mL			1mL						9/14/99		
	-LCS3	↓	↓	500			↓	↓	↓			↓							↓	
000083	50802-20	↓	↓	-			↓	↓	↓			↓								
									RC 9/14/99											

*All volumes are in milliliters (ml) unless otherwise noted.

Extr.Solvent ID: N-7255 | Sodium Sulfate Lot #: ____ | Reagents IDs: ____

Final Solvent ID: ↓ | Supervisor Initial: ____ | ☐ GPC X Y Z

Container Lot #: ____ | Surrogate Added By: RC | ☐ Silica

Prepared by: RC | Witnessed By: ____ | ☐ Florisil

Lot #: ____

Comment Codes:

RE = Reextract

AL 2nd Aliquot

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CEIMIC CORPORATION

Organic Preparation Laboratory / Sample Preparation Bench Sheets

Project#: 970802 | Analytical Method: CLP | Surr. Sol. ID: 09W970830A | Prep Date/Time: 9/14 /
Client: Roy F. Weston, Inc. | Extraction Method: Sonication | MS Sol. ID: 11W970407A | Analysis: SLCP
Blank ID: S0914-BL | LCS ID: S0914-LCS1 | Addt'l Spike ID: — | Matrix: S. /

IDENTIFICATION		EXTRACTION SECTION								EXTRACT CLEAN-UP SECTION								INIT & DATE TRANSFER		COMMENTS
										GC/MS			GC/LC							
Client ID	Ceimic ID	Vol/ Wt (ml/g)	Surr Vol (µl)	MS Vol (µl)	% Moist	pH	Acid pH	Basic pH	Final Ext Vol*	Clean Up Vol*	Post Clean Vol*	Vol Trans*	Clean Up Vol*	Post Clean Vol*	Florisil Vol*	Post Florisil Vol*	Vol Trans*	GC/ MS	GC/ LC	
D00068	-1802-05	30.2	500	—			—	—	4 ml	2 ml	.5 ml	.5 ml						GPC 9/20	—	
	-05MS	30.6		500																
	-05MSD	30.3																		
D00069	-06	30.5		—																
D00070	-07	30.2																		
D00071	-08	30.1																		
							MR													
								9/14/99												

MR 9/14/99

*All volumes are in milliliters (ml) unless otherwise noted.

Extr.Solvent ID: N17255/N23295 | Sodium Sulfate Lot #: N 29591 | Reagents IDs:
Final Solvent ID: N17255 | Supervisor Init: [illegible]
Container Lot #: — | Surrogate Added By: CY
Prepared by: MR | Witnessed By: BS

☑ GPC (X) Y Z
☐ Silica
☐ Florisil
Lot #: _____

Comment Codes:
RE = Reextract
AL 2nd Aliquot

CEIMIC LOG BOOK 1769 FOUND COPY ORIGINAL

Ceimic Corporation
Organic Prep Laboratory
pH Analysis

Date	Buffer #1	Buffer #2	Ceimic ID	pH (meter)	pH (paper)	Initials	Review By
09/09/99	4 7	10	774 -11	6.5			
			-12	6.0			
			-13	6.3			
			-14	5.6			
			-15	6.3			
			-16	6.6			
			-17	6.0			
			-18	6.8			
9/15/99	4 7	10	795 - 01	9.3			
			-02	8.3			
			-03	8.7			
			802- 05	7.4			
			-06	7.5			
			-07	8.0			
			-08	7.1			
			791 - 07	8.7			
			-08	8.7			
			-11	8.6			
			-12	~~8.8~~ 9.0			
			-13	9.0			
			-14	8.6			
			-15	8.3			
			-16	8.3			
			-17	8.6			
			-18	8.6			
			-19	8.4			
			-20	8.4			

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Page #_____

Ceimic Corporation
Organic Prep Laboratory
Moisture Analysis Log

Date In	Ceimic ID	Tare in g	Gross Wet in g	Net Wet in g	Temp In in °F	Int.	Date Out	Gross Dry in g	Net Dry in g	Temp Out in °F	% Moisture	Int.	Calc. Reviewed By
9/14/99	793-04	1.3g	9.4	8.1	220	MW	9/15/99	7.7	6.4	220	21	BM	
	-05		7.9	6.6				6.5	5.2		21		
	-06		6.4	5.1				5.3	4.0		22		
9/14/99	802-05	1.3g	8.9	7.6				6.4	5.1		33		
	-06		10.6	9.3				8.6	7.3		22		
	-07		7.9	6.6				5.9	4.6		30		
	-08		8.7	7.4				6.5	5.2		30		
9/14/99	808-01	1.3g	5.3	4.0				2.8	1.5		63		
9/15/99	8[illegible]-12	1.3g	6.4	5.1	220	CM	9/17/99	6.3	5.0	220	2	CM	
	812-02		6.7	5.4				6.6	5.3		2		
9/16/99	812-01	1.3g	9.0	7.7	220	CM	9/17/99	8.1	6.8		12		
	-02		8.0	6.7				7.2	5.9		12		
	-03		8.9	7.6				7.9	6.6		13		
9/16/99	816-01	1.3g	5.3	4.0				4.5	3.2		20		
	-02		6.3	5.0				5.2	3.9		22		
	-03		7.2	5.9				5.4	4.5		24		

* Moisture = $\frac{\text{net wet} - \text{net dry}}{\text{net wet} \times 100}$

ORIGINAL IN LOGBOOK

QA[illegible]072

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Ceimic Corporation
VOA Laboratory
Soil Moisture Analysis Logbook

Date	Lab ID	Tare	Wt (gw)	Wt (nw)	Wt (gd)	Wt (ng)	% Moist	Init	Verify By
09.21.99	990745-01	1.3	6.34	5.04	5.58	4.23	16	SF	
	02		5.13	3.83	4.64	3.34	13		
	03		5.75	4.45	5.02	3.72	16		
	990802-05	1.3	7.51	6.21	5.35	4.05	35		
	06		5.68	4.38	4.91	3.61	19		
	07		8.04	6.74	5.76	4.46	34		
	03		5.49	4.19	4.26	2.96	29		
09.23.99	990780-17	1.3	5.84	4.54	5.06	3.76	17	SF/SR	
	-18		5.20	3.90	4.57	3.27	16		
	-19		5.19	3.89	4.56	3.26	16		
	-20		5.33	4.03	4.65	3.35	17		
09.27.99	990788-01	1.3	5.37	4.07	4.88	3.58	12	SF/SR	
	-02		5.47	4.17	4.70	3.40	16		
	-03		5.94	4.64	5.40	4.30	7		
	-04		5.17	3.87	4.62	3.32	14		
	-05		5.17	3.87	4.51	3.21	17		
	-06		5.63	4.33	5.23	3.93	9		
	-10		6.06	4.76	5.27	3.97	17		
	11		5.27	3.97	4.66	3.36	15		

gw: gross wet — nw: net wet — wt(nw) = wt(gw) − tare
gd: gross dry — nd: net dry — wt(nd) = wt(gd) − tare

$$\%Moist = \frac{Wt(nw) - Wt(nd)}{Wt(nw)} \times 100$$

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QAT0013 - 003

ORIGINAL FOUND IN VOA LAB

Ceimic Corporation
GC/MS Semivolatiles Laboratory
Instrument Tracking Log – MS#10

FRN#	Arcv Tape ID	RTE Purged Date	Env Arcv Tape ID	Env Purged Date	Sample ID	EM	DIL	Date	Initials	Review By	Comments
>J Y150					DFTPP	1800	—	3/27/99	NS	NS	SW9904171H
>J 1					DFTPP						
>J Y152											
>J 3											
>J Y154					DFTPP	1650	—	3/30/99	NS		(V) Ical Chosen SW9907 17H
>J Y155					SSTD050JQ						SW990723A
>J Y156	3/30/99				DFTPP						SW9904171H
>J Y157					DFTPP						
>J 8					DFTPP						
>J 9					SSTD050J5						✓ SW990723A
>J Y160					SSTD010J5						✓ SW990723B
>J 1					SSTD020J5						SW990723C
>J 2					SSTD080J5						✓ SW990723D
>J 3					SSTD120J5						✓ SW990723E
>J 4				3/30/99	SSTD160J5						✓ SW990723F
>J 5					SSSTD050J5						SW990810A
>J 6					BFB Surrogates						[illegible]
>J 7					SSTD020J5						SW990723C

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Ceimic Corporation
GC/MS Semvolatiles Laboratory
Instrument Tracking Log – MS#1

FRN#	Arcv Tape ID	RTE Purged Date	Env Arcv Tape ID	Env Purged Date	Sample ID	EM	DIL	Date	Initials	Review By	Comments
>^ X083					S0814-LCS3DUP2	1450	–	9/3/99	AP		
>^ 4					S0814-LCS3DUP3						
>^ 5					S0816-B1MR						
>^ 6					-LCS1MR						
>^ 7					-LCS2MR						
>^ 8					-LCS3MR						
>^ 9					-LCS4MR						
>^ X090					S0811-B1						
>^ 1					-LCS1						
>^ 2					-LCS1DUP1						
>^ 3					-LCS1DUP2						
>^ X094					DFTPP	1450	–	9-4-99	AP		SW9404171H
>^ X095					SSTD050AU						– 24 – SW9407334
>^ X096					SSTD050BU						– 24 –
>^ X098					DFTPP	1450	–	9/7/99	AP		SW9404171H
>^ X099					SSTD050AU		–		AP		change to A6 SW9407334
>^ X100					SSTD020 A6						CLP
>^ 1					080						
>^ 2					120						
>^ 3					160						

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Ceimic Corporation
GC/MS Semivolatiles Laboratory
Instrument Tracking Log – MS#1

FRN#	Arcv Tape ID	RTE Purged Date	Env Arcv Tape ID	Env Purged Date	Sample ID	EM	DIL	Date	Initials	Review By	Comments
>^X104					SSTD050A6	1450	–	09-07-99	ly	AP	SW990723F
>^ 5					DFTPP						SW990417H
>^ 6					DFTPP						
>^ 7					DFTPP						
>^ 8					DFTPP						
>^ 9					DFTPP						
>^X110					DFTPP						
>^X111					DFTPP						
>^X112					SSTD050						-14- 7 out SW990723
>^X113					DFTPP	1450	–	09-8-99	ly		SW990417H
>^X114					SSTD050AU						SW990723A1
>^X115					DFTPP	1450		9/9/99	AP		SW990417H
>^X116					SSTD050AU						SW990723A1
>^X117					DFTPP	1494	–	09-13-99	ly		SW990417H16 m/z 199 ↓ re-run
>^ 8					DFTPP						m/z 68 ↑ re-run
>^ 9					DFTPP						m/z 197 ↑ re-run
>^X120					DFTPP						SW990417H21
>^ 1					SSTD050AU						SW990723A2 8 out-maybe the good
>^ 2					SSTD050AU						
>^ 3					SW950-B1						

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Ceimic Corporation
GC/MS Semvolatiles Laboratory
Instrument Tracking Log – MS#1

FRN#	Arcv Tape ID	RTE Purged Date	Env Arcv Tape ID	Env Purged Date	Sample ID	EM	DIL	Date	Initials	Review By	Comments
>^X184					DFTPP	1444	—	9/20/99	AP	AP	SW990417H
>^X185					DFTPP	1444	—	9/20/99	AP		↓
>^X186					DFTPP	↓			lg		SW990417H23
>^ 7					DFTPP	1550					↓
>^ 8					SSTD050AW						SW990~~417~~723A2
>^ 9					SSTD050MW						↓
>^X190					DFTPP						SW990417 H
>^ 1					~~SSTD050AW~~ DFTPP	lg					↓
>^ 2					SSTD050AW						CLP SW990723A
>^ 3					S0915-B3						
>^ 4					-LCS3						
>^ 5					S0916-B3						
>^ 6					-LCS3						
>^ 7					S990802-20						
>^ 8					S990512-05						
>^ 9					S990502-01						
>^X200					-01MS						
>^ 1					-01MSD						
>^ 2					-02						
>^ 3					-03	↓	↓	↓	↓	↓	

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GC/MS Semvolatiles Laboratory
Instrument Tracking Log – MS#1

FRN#	Arcv Tape ID	RTE Purged Date	Env Arcv Tape ID	Env Purged Date	Sample ID	EM	DIL	Date	Initials	Review By	Comments
>^X204					S990502--04	1550	—	09-20-99	ly	MJ	
>^ 5					-13						
>^ 6					S990512-07						
>^ 7					S0903-B3						
>^ 8					S990777-03		2x				
>^ 9					-03MS						
>^X210					-03MSD						
>^X211					DFTPP	1550	—	09-21-99	ly		SW990417H25
>^X212					DFTPP						
>^X213					DFTPP						
>^ 4					DFTPP						
>^ 5					DFTPP						SW990417H20
>^ 6					DFTPP				NS		
>^X217					DFTPP	1550	—	11/24/99	AP	AP	SW990417H21
>^X218					SSTD050AX						SW990723A3
>^X219					DFTPP						SW990417H31
>^X220					DFTPP						
>^ 1					DFTPP						SW990417H31
>^ 2					DFTPP						SW990417H25
>^ 3					SSTD050AX						SW990723A3

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Ceimic Corporation
GC/MS Semvolatiles Laboratory
Instrument Tracking Log – MS#1

FRN#	Arcv Tape ID	RTE Purged Date	Env Arcv Tape ID	Env Purged Date	Sample ID	EM	DIL	Date	Initials	Review By	Comments
>A X284					50911-B3	1750	—	2/30/99	NS		
>A 5					50922-B3						
>A 6					50929-B8						
>A 7					50914-B1						
>A 8					50920-B4		↓				
>A 9					RS 990786-C3		10X				
>A X290					-C4		↓				
>A 1					S 990791-C8		5X				
>A 2					-11						
>A 3					-11MS						
>A 4					-11MSD		↓				
>A 5					S 990795-C2MS		—				
>A 6					-C2MSD						
>A 7					S 990802-C5MS						
>A 8					-C5MSD						
>A 9					-C7						
>A X300					-C8		↓				
>A 1				NS 2/30/99	S990777-13 ~~S 990812-C1~~		10X				
>A 2					2996812-C2						
>A 3					-C3	↓	↓	↓	✓		

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Ceimic Corporation
GC/MS Semivolatiles Laboratory
Instrument Tracking Log – MS#4

FRN#	Arcv Tape ID	RTE Purged Date	Env Arcv Tape ID	Env Purged Date	Sample ID	EM	DIL	Date	Initials	Review By	Comments
>D X016					DFTPP	1753	—	9-27-99	[illegible]	NS	SW990417H
>D 7					SSTD050	↓	↓	↓	↓	↓	SW990723A
>D 8					DFTPP	1753	—	9-27-99	[illegible]		SW990417H
>D 9					SSTD050DR	↓	↓	↓	↓		SW990723A
>D X020					SSTD050DR	↓	↓	↓	↓		↓
>D X021					SSTD050DR	↓	↓	↓	↓		↓
>D 2					DFTPP	↓	↓	↓	↓		SW990417H
>D 3					SSTD050DR	↓	↓	↓	↓		SW990723A
>D 4					SSTD050DR	↓	↓	↓	↓		↓
>D 5					SSTD050DR	↓	↓	↓	↓		↓
>D 6					DFTPP	↓	↓	↓	↓		SW990417H
>D 7					SSTD050DR	↓	↓	↓	↓		SW990723A
>D 8					SSTD050DR	↓	↓	↓	↓	↓	↓
>D X029					DFTPP	1753	—	9/27/99	NS	NS	SW990417H24
>D X030					DFTPP 9/27/99 5	↓	↓	↓	↓	↓	↓
>D 1					SSTD050DR	↓	↓	↓	↓	↓	SW990723A2
>D 2					SSTD020D5	↓	↓	↓	↓	↓	SW990723C
>D 3					SSTD080D5	↓	↓	↓	↓	↓	SW990723D
>D 4					SSTD120D5	↓	↓	↓	↓	↓	SW990723E
>D 5					SSTD160D5	↓	↓	↓	↓	↓	SW990723F

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Ceimic Corporation
GC/MS Semivolatiles Laboratory
Instrument Tracking Log - MS#4

FRN#	Arcv Tape ID	RTE Purged Date	Env Arcv Tape ID	Env Purged Date	Sample ID	EM	DIL	Date	Initials	Review By	Comments
>DX036					S0909-BB2	1753	—	9/27/99	NS	NS	
>D 7					S0922-B1						
>D 8					-LCS1						
>D 9					S0914-B1						
>DX040					-LCS1						
>D 1					S0911-B3						
>D 2					-LCS3						
>D 3					S0920-B4						
>D 4					-LCS4						
>D 5					S0825-B,D						
>D 6					-LCS,D						
>D 7					-LCS,D1						
>D 8					-LCS,D2						
>D 9					-LCS,D3						
~~>DX050~~					~~S0909-BB2 -LCS,D4~~						never ran NS 9/28/99
>DX050					DFTPP	1753	—	9/28/99	NS		SW990417H23
>D 1					DFTPP						
>D 2					DFTPP						
>D 3					SSTD050CDA	1753					SW990723A2
>D 4					S0909-BB2						

COPY FOUND IN CEIMIC LOGBOOK

ORIGINAL

1777

QA1D03

Page # 03

Ceimic Corporation
GC/MS Semivolatiles Laboratory
Instrument Tracking Log - MS#4

FRN#	Arcv Tape ID	RTE Purged Date	Env Arcv Tape ID	Env Purged Date	Sample ID	EM	DIL	Date	Initials	Review By	Comments
>DX055					SC922-BB1	1753	—	9/28/99	NS	[illegible]	
>D 6					50914-B1						
>D 7					5990791-07						
>D 8					-08						
>D 9					-11						
>DX060					-12						
>D 1					-13						
>D 2					-14						
>D 3					-15						
>D 4					-16						
>D 5					-17						
>D 6					-18						
>D 7					-19						
>D 8					-20						
>D 9					5996795-01						
>DX070					-02						
>D 1					-03		5x				
>D 2					5996302-05		—				
>D 3					-06						
>DY074					DFTPP	1706	—	9/29/99	AP	NS	

ORIGINAL IN LOGBOOK

QA1D058

1778

Ceimic Corporation
GC/MS Semivolatiles Laboratory
Instrument Tracking Log – MS#10

FRN#	Arcv Tape ID	RTE Purged Date	Env Arcv Tape ID	Env Purged Date	Sample ID	EM	DIL	Date	Initials	Review By	Comments
>J Y507					MS 990777-02	1950	2X	09-20-99	ly	NS	
>J 8					-09	↓	5x	↓	↓	↓	
>J Y509					DFTPP	1950	—	09-21-99	ly	↓	SW990417H20
>J Y510					SSTD050JG	↓	↓	↓	↓	↓	SW990723A1
>J 1					SSTD050JG	↓	↓	↓	↓	↓	↓
>J 2					SSTD050JG	↓	↓	↓	↓	↓	SW990723A2
>J 3					S990506-17	↓	10x	↓	↓	↓	
>J 4					S0903-BB1	↓	—	↓	↓	↓	
>J 5					S0915-LCS3	↓	↓	↓	↓	↓	
>J 6					S990506-17	↓	↓	↓	↓	↓	
>J 7					S0904-B2	↓	↓	↓	↓	↓	
>J 8					S0915-B3	↓	↓	↓	↓	↓	
>J 9					S990777-20	↓	10x	↓	↓	↓	
>J Y520					-14MS	↓	—	↓	↓	↓	
>J 1					MS 990777-02MS	↓	2x	↓	↓	↓	
>J 2					-02MSD	↓	↓	↓	↓	↓	
>J 3					-09	↓	5x	↓	↓	↓	
>J 4					S990780-04	↓	10x	↓	↓	↓	

ORIGINAL
OWNED IN
LOGBOOK

QAT0059

1779

Page # 0006

Ceimic Corporation

Pesticide/PCB Laboratory

Sample Run Log

GC #: 3

Primary Column: RTX 1 RTX 5

Confirm Column: RTX 20 RTX 1701

Vol. inj.: 2uL

Temp. Program: 180 (4) → 275 (20) → 280

0.5 2 4

File#	Date	Vial#	Sample ID	Dil.	Comment prim.	Comment conf.	Init.	Rev.
R120R20S2L013	9/20/99	13	R0812-07					
		14	HEXANE					
		15	R13LK-12			WB 9/20/99		
		16	IAM-07					
		17	IBM-10					
R120R20S2L001	9/20/99	001	RESC-02				RWB	
2		2	REM-08					
3		3	AR1660-103					
4		4	1221-103					
5		5	1232-103					
6		6	1242-103					
7		7	1248-103					
8		8	1254-103					
9		9	TOXAPH-03		MTC.			
10		10	IAL-03		INDA	BQ(1)		
11		11	~~IAM-07~~ IBL-05			20		
12		12	IAM-07		QR(1)	prosep		
13		13	IBM-10					
14		14	IAH-03		synneth(1)	20		
15		15	IBH-05					
16		16	~~R0812-10~~		✓	✓		
17		17	REM-08		✓			
18		18	1CHEN-103					
19		19	1660-103					
20		20	1660-310					
21		21	1660-505					
22		22	R0915-BBA		✓			
23		23 1	-BA		✓ 04			
24		24 2	-LLSA		✓ 04			
25		25	R0915-BB10		✓			
26		26	-LLS10		✓			
27		27	-B10		✓			
28		28 3	R0802-15 RE		✓ D00078			
29		29 4	-15PRSX		✓	DL		

C21 – 24

1780

Ceimic Corporation

Pesticide/PCB Laboratory

Sample Run Log

GC #: 3

Primary Column: AB19 PB5

Confirm Column: AB20 PB1701

Vol. inj.: 2uL

Temp. Program: 180 (0.5) → 4 → 275 (2) → 20 → 280 (4)

File#	Date	Vial#	Sample ID	Dil.	Comment prim.	Comment conf.	Init.	Rev.
R12L0812L030	7/20/99	30	P0812-04 PE		✓		WB	
31			-01	2X	✓			
32			P0812-07		✓			
33			HEXANE					
34			HEXANE					
35		5	PIBLK-10	B	✓	✓		
36		6	IAM-07	B	✓	✓		
37		7	IBM-10	B	✓	✓		
R12L275L001	7/27/99	001	PIBLK-10	PRIMER	PIBLK-10		WB	
2		2	PEM-08	PRIMER	PEM-08	NG		
3		3 1	PRC0719-B1Y	PRIMER	PRIMER			
4		4 2	CC0719CK1Y	HEXANE	PRIMER			
5		5 3	CK2Y	PIBLK-10	PRIMER			
6		6 4	P0711-B2	PEM-08	WB7/27/99	HEXANE		
7		7 5	-LCS2	8	PIBLK-10 ✓	✓ C		
8		8 6	P0707-BB5	9	PEM-08 ✓	✓ C		
9		9 7	P0707-LCS5	10	P0714-B2	✓ C1		
10		10 8	P0788-08	11	-LCS2	✓ C1		
11		11 9	-02	12	P0715-B7	✓ C3		
12		12 10	HEXANE	13	-LCS7	✓ C3		
13		13 11	P0788-03		P0716-B2	✓		
14		14 12	-03MS		-LCS2	✓		
15		15 13	HEXANE		P0722-B4	✓		
16		16 14	-03MSD		-LCS4	✓		
17		17 15	HEXANE	14	P0714-B8	✓ C2		
18		18 16	HEXANE		-BB8	✓		
19		19 17	PIBLK-10	15	-LCS8	✓ C2		
20		20 18	IAM-08	16	P0802-01	✓ DC0004		
21		21 19	IBM-11	17	-01MS	✓ MS		
22		22 20	P0788-04		HEXANE			
23		23 21	-05		HEXANE			
24		24 22	HEXANE		HEXANE			
25		25 23	P0788-06	18	PIBLK-10	✓ D ✓		
26		26 24	-10	19	IAM-08	✓ E ✓		

WB 7/28/99 WB 07/27/99

1781

Ceimic Corporation

Pesticide/PCB Laboratory

Sample Run Log

GC #: 3

Primary Column: RD17 DB5

Confirm Column: RD20 DB1701

Vol. inj.: 2uL

Temp. Program: 180 (4) → 275 (20) → 280

0.5 2 4

File#	Date	Vial#	Sample ID	Dil.	Comment prim.	Comment conf.	Init.	Rev.
R20P27G0027	9/27/99	27	HEXANE	20	IBM-11 ✓	✓	RWB	JK
28		28	P0988-01	10	P0802-01MSD	✓ DAILY MSD		
29		29	-01		22 -02 ✓	65		
30		30	HEXANE		HEXANE			
31		31	HEXANE	23	P0802-03 ✓	66		
32		32	HEXANE	24	-04 ✓	67		
33		33	PJBLK-10		HEXANE			
34		34	PEM-08		P0802-13 ✓	76		
35		35	RWB 9/27/99	26	-05 ✓	68	RWB	
36		34			HEXANE			
37		35	P0802-03MS		✓	68MS		
38		36	28 -03MSD		✓	68MSD		
39 40		37	HEXANE					
40 41		38	HEXANE					
41 42		39	HEXANE					
42 43		40	PJBLK-10	E	✓	✓		
43 44		41	PEM-08	D	✓	✓		
R20P27G0001	9/27/99	001	PJBLK-10		✓		RWB	
2		2	PEM-08		NG	NG		
3		3	P0920-03					
4		4	-LCS3					
5		5	P0812-01					
6		6	-02					
7		7	HEXANE		Re-Run			
8		8	P0812-02MS					
9		9	-02MSD					
10		10	HEXANE					
11		11	P0812-03					
12		12	HEXANE					
13		13	HEXANE					
14		14	PJBLK-10					
15		15	IBM-08					
16		16	IBM-11					

RWB 9/30/99

1782

Ceimic Corporation

Pesticide/PCB Laboratory

Sample Run Log

GC #: 3

Primary Column: AD 19 DB5

Confirm Column: AD20 DB1701

Vol. inj.: 2uL

Temp. Program: 180 (4) → 275 (20) → 280 (4)

File#	Date	Vial#	Sample ID	Dil.	Comment prim.	Comment conf.	Init.	Rev.
AD19 10/05/99	10/05/99	034	P0862-06		✓			
35		35	HEXANE					
36		36	P0862-08		✓			
37		37	-10		surr low?			
38		38	HEXANE		PGPC 0919 bly	✓		
39		39	HEXANE		0919 CKLY	NG ↑		use C92
40		40	1BK-10	F	✓	✓		
41		41	32 1BM-11	E	✓ (lot 24%) →	✓		
42		42	P0862-10MS		✓			
43		43	-10MSD		✓			
44		44	HEXANE					
45		45	P0862-12		✓			
46		46	-13		dirty! run 10x			
47		47	HEXANE					
48		48	P0862-15		✓			
49		49	-17		✓			
50		50	-19		✓			
51		51	HEXANE 33		P0862-06 ✓	← D00069		
52		52	HEXANE 34		-07 ✓	70		
53		53	1BLK-10	35	-08 ✓	71		
54		54	1BM-11		HEX			
55		55	1BM-13	09	1CKLY ✓			
56		56	0919 CKLY		high return			
57		57	36 1BLK 10	G	✓	✓		
58		58	37 1BM 11	D	✓	✓		
59		59	38 1BM 13	D	✓	✓		
60		60	39 PGPC 0926 BLY		✓			
61		61	0926 CKLY		high return			
62		62	40 0926 CKLY		✓			
63		63	41 P0862-16A	✓	✓ 4-1259	D00079		
64	10/06/99	64	-16B		— NG			
65		65	812-06A	✓	1260?			
66		66	-06B		— NG			
67		67	-08		✓			

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Ceimic Corporation

Pesticide/PCB Laboratory

Sample Run Log

GC #: 3

Primary Column: A019 DB5

Confirm Column: A020 DB1701

Vol. inj.: 2µl

Temp. Program: 180 —4→ 275 —80→ 280
.5 2 4

File#	Date	Vial#	Sample ID	Dil.	Comment prim.	Comment conf.	Init.	Rev.
R19/10P050CTC08	10/06/99	68	812-09		✓ dirty	CLP	B	
69		69	Hex					
70		70	↓ CC09	9CK14	NO			
71		71	~~AR1242-103~~	0926CK14	high			
72		72	AR1248-108					
73		73	1254-103					
74		74	1660-103					
75		75	42P132K10	H	✓	✓		4:11
76		76	~~1AM0843~~ PEMIIF		✓	✓		
77	10/07/99	1	1B~~M~~13		0928CK14	Heptachlor	B	
78		2	PEMIX 100699	P	0913CK14	Heptachlor		
79		1	0926CK14		Endrin	*		
80		2	1003CK14		Endrin	high		
81		1	0926CK14		↓			
82		2	1003CK14		~~Heptachlor~~ ✓	✓		
83		1	440926CK14		✓ (R1)	✓		
84		2	1003CK14		Endrin high			
85		3	1003B14		✓			
86		4	CK24		✓			
87		5	CK14		Heptachlor	✓		
88		6	45P132K10	Z	✓	✓		
89		7	46IAM08	E	✓	✓		
90		8	47BM13	E	✓	✓		
91		9	P1002-B1		✓			
92		10	P1005-B1		✓			
93		11	-BB1		✓ ←			
94		12	862-01		✓			
95		13	-02		✓			
96		14	-07		✓			
97		15	-09		✓			
98		16	-09MS		no spike	clean		
99		17	-09MSD		✓			
100		18	-11		✓			
101		19	-16		✓			

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Refrigerator # 9
Review By: _____

Lab Sample ID	Bottle #	Date/Time Removed	Initials	Date/Time Returned	Initials	Comments
995469	07, 08	6/20/99	[illegible]	6/20/99	[illegible]	[illegible]
475	5-9, 12-14	↓	↓	↓	↓	[illegible]
990578	1, 2, 3	07/02/99	RWB			
1602	1-4	07/06/99	[illegible]	Consumed		[illegible]
602	1(2), 3-4	7/7/99	PC	consumed		SVOA (CLP)
572	1-8	7/7/99	[illegible]	7/7/99	[illegible]	[illegible]
572	1-8	7/9/99	AS	7/9/99	AS	Flashpt.
1602	10-11	7/12/99	[illegible]			SVOA
478	17	7/12/99	AS	7/12/99	AS	TSS
1602	10-12	7/12/99	[illegible]			[illegible]
990648	1-12	7/20/99	RWB	consumed	RWB	
[illegible]	[illegible]	[illegible]	[illegible]			
773	1-20	09/01/99	[illegible]	9/01/99	[illegible]	Resting / SVOA
786	1	9/7/99	[illegible]	consumed		O/G
756	5+6	9/8/99	AS	consumed	AS	PB
~~796~~	~~1-5+7~~					
~~796~~	~~1-4~~					
796	1-5, 7	9/13/99	PC	consumed	PC	PCB [illegible]
802	1-3	9/14/99	PC	consumed		[illegible]
799	1-8	9/14/99	MR	9/14/99	MR	Rest/PCB/SVOA
[illegible]	04	9/14/99	[illegible]	9/14/99	[illegible]	04
801	03	9/14/99	[illegible]	9/14/99	[illegible]	TCLP
799	1-8	9/15/99	AS	9/15/99	AS	TCN
806	04	9/15/99	[illegible]	9/15/99	[illegible]	Rcn/Rs
803	1-3	9/15/99	PC	consumed		SVOA
806	04	9/16/99	[illegible]	9/16/99	[illegible]	Flashpt
802	1-3	9/16/99	AS	9/16/99	AS	TCN
806	04	9/20/99	[illegible]	9/20/99	[illegible]	Flashpt.
799	1-8	9/20/99	[illegible]	9/20/99	[illegible]	[illegible]
806	02	9/21/99	[illegible]	9/21/99	[illegible]	Metals
830	2, 3	9/21/99	[illegible]	consumed		[illegible]
829	1, 2	09/22/99	HB	consumed		Rest/PCB

COPY.. ORIGINAL FOUND IN LEIMIT LOGBOOK

Ceimic Corporation
Sample Receiving
Sample Transfer Record

Refrigerator # 02
Review By: _____

Lab Sample ID	Bottle #	Date/Time Removed	Initials	Date/Time Returned	Initials	Comments
990751	03	8/25/99	CAG	CONSUMED		PEST/PCB
990716	30	8/26/99	JDM	—	—	
990716	29	8/26/99	JDM	Consumed		Herb
↓	05	↓	↓	↓		↓
990716	10,11	8/27/99	JDM	—		alk, nutrients
990758	15	8/29/99	CAG	CONSUMED		SVOA
990758	19	8/29/99	YS	8/29/99	YS	Pest / PCB
990758	16	8/29/99	CAG	CONSUMED		PEST/PCB
990716	08	8/30/99	JDM	—		organic nutrients
990716	1, 13, 15	8/30/99	TY			metals
990758	18	8/31/99	AS			cyanide
990716	16	8/31/99	MVP	—		VOA
990716	14	8/31/99	TY			Hg
990751	01	09/01/99	D	—		VOA
990758	10	09/01/99	D			[illegible]
990716	09	9/5/99	TY			Ca, Hg
#5 ~~990802 15~~						
990802	16	9/15/99	CAG	CONSUMED		PEST/PCB
990802	15	9/15/99	JDM			Pest/PCB
990812	04		↓			↓
↓	06	↓	↓	9/15/99	CAG	↓
990802	20	9.16.99	RC			
812	05	9.16.99	RC	consumed		COPY TO ORIGINAL
990758	17	9/17/99	TY	9/17/99	TY	~~FOUND~~ IN
802	18	9/17/99	AS			TERMIT LOGBOOK
990792	12	09/21/99	MVP	—	—	VOA
802	19	09/21/99	JL	—	—	[illegible]
829	04, 07	09/22/99	HB	consumed		SVOA, Pest/PCB
843	5, 6, 19	9/28/99	JDM	9/28/99	JDM	wet chem
848	8, 15, 16	9/28/99	JDM	9/28/99	JDM	anions, TCN
829	05	09/28/99	BS			
843	12	09/28/99	HB			Pest
829	06	9/29/99	TY	9/29/99	TY	Metals

QAT0194

Page # 001786

Ceimic Corporation
Sample Receiving
Sample Transfer Record

Refrigerator # _____
Review By: _____

Lab Sample ID	Bottle #	Date/Time Removed	Initials	Date/Time Returned	Initials	Comments
843	10	09/29/99	HB			+see Duke
↓	16	↓	↓			
802	17, 21	09/30/99	TY	09/30/99	TY	metals
861	06	09/01/99	DM	Consumed		PE [illegible]
843	15, 17	10/01/99	MR	Consumed		Chlordane, Toxaphene
841	07	10/01/99	MR	10/01/99	HB	PCB
843	13	10/01/99	DM	Consumed		Herbicides
843	07, 08	10/4/99	DM			TCN
843	18	10/8/99	DM			pH
						COPY.. ORIGINAL
						FOUND IN
						CEIMIC LOGBOOK

QAT0194

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Sample Transfer Record

Refrigerator # 1

Review By: MP

Lab Sample ID	Bottle #	Date/Time Removed	Initials	Date/Time Returned	Initials	Comments
990739	01 (x3)	8/30/99	RC			consumed
990755	1,2,3	8/25/99	YS	Consumed		
990715	1,2,12-17	8/30/99	TY	8/30/99	TY	Metals
715	1,2,12-16	8/31/99	TY	8/31/99	TY	Hg
714	1-10	↓	↓	↓	↓	↓
783	1-4	9/2/99	TY	9/2/99	TY	SeLp
715	1,2,12,13,15	9/3/99	TY	9/3/99	TY	
741	1,2,4,6,8,9,11	9/3/99	TY	↓	↓	
783	1-4	9/5/99	TY	9/5/99	TY	metals
715	1,2,12-17	9/7/99	TY	↓	↓	metals (Repeat)
718	2-10	↓	↓	↓	↓	↓
710	11-21	9/7/99	TY	9/7/99	KS	Metals
715	1-2,12-16	9/7/99	TY	↓	↓	Metals (TP)
805	4-13	9/[illegible]	RC	consumed		[illegible]
802	5,6,7,8	9/14/99	JDM	9/14/99	JDM	Aus
802	5,6,7,8	9/14/99	NAR	9/14/99	NAR	~~[illegible]~~ + Pest/PCB
741	1,2,4-6,8,9,11	9/14/99	TY	9/14/99	TY	Metals
755	1,2,3,5	↓	↓	↓	↓	↓
802	5-7,8	9/15/99	AS	9/15/99	AS	TCN
802	07,13	9.15.99	RC	consumed		Sulfide
755	1,2,3	9/15/99	TY	9/15/99	TY	Metals (Hg)
802	7,9-13	↓	↓	↓	↓	↓
802	7-9,7,9,13	9/16/99	AS	9/16/99	AS	TCN
830	9,5,7,11,13,15	9/21/99	CAY	consumed		PAH ORIGINAL
802	5-8	9/22/99	TY	9/22/99	TY	FOUND IN
830	2,4,8,9,20	9/24/99	NAR	9/24/99	NAR	PAH LOGBOOK
845	1-3	9/24/99	NAR			
845	1-3	9/25/99	CAY	9/25/99	CAY	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
845	1-3	9/27/99	JDM	9/27/99	JDM	wet chem
841	9-13	9/27/99	RC	consumed		PCB only
830	4,5-11,13,15,17,19	9/29/99	TY	9/29/99	TY	metals

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Page # 31

Refrigerator # 1

Review By:

Lab Sample ID	Bottle #	Date/Time Removed	Initials	Date/Time Returned	Initials	Comments
990802-2	4-13	10/1/99	TY	10/1/99	TY	metals
708	13	10/2/99	TY	10/1/99	TY	metals
883	1→4, 6→11	10/11/99	HB	10/11/99	HB	SVOA, PCB

COPY... ORIGINAL
FOUND IN
CEIMI LOGBOOK

Ceimic Corporation
BNA Laboratory
Extract Transfer Log

Ceimic Lab ID	Prep lab transfer				BNA manipulation				Revie By
	Date	Time	Vol	Initial	Date Spiked	Internal Std ID	Initial	Comments (OP lab dilution/ possible spill)	
S0799-07	9/23/99	23:00	0.5ml	BM	9/23/99	5ng490509 A24	AP	5uL	
-08	↓	↓	↓	↓	↓	↓	↓		
-09									
P0914-B8	9/25/99	10:00	1ml	MR		-mistake			
-LCS8									
P0802-01						-NOT OURS			
-01MS									
-01MSD						-transferred to GC			
-02									
-03									
-04									
-13	↓	↓	↓	↓					
S0799-20	9/23/99	11:00	1ml	NS	9/23/99	5ng990509 A24	NS	10uL	
S0780-04	9/23/99	13:40	.25ml	RC				2.5uL	
S0418.B3			.5ml					5uL	
-LCS3									
S0813-01									
-02									
-03									
-04									
-05									
-06									
-07									
-08									
S0931-B4									
-LCS4									
S0828-14									
-16									
-16MS	↓	↓	↓	↓	↓	↓	↓	↓	

COPY.. ORIGINAL FOUND IN CEIMIC LOGBOOK

Ceimic Corporation
BNA Laboratory
Extract Transfer Log

Ceimic Lab ID	Prep lab transfer				BNA manipulation				Review By
	Date	Time	Vol	Initial	Date Spiked	Internal Std ID	Initial	Comments (OP lab dilution/ possible spill)	
S0920 - B4	9/26/99	19:00	0.5ml	CAP	9/27/99	SW4080A B26	AP	5 mL	
- LCS4									
S0812 - 01									
- 02									
- 02MS									
- 02MSD									
- 03									
S0914 - B1									
- LCS1									
S0802 - 05									
- 05MS									
- 05MSD									
- 06									
- 07									
- 08									
S0795 - 01									
- 02									
- 03									
S0911-B3	09/27/99	8:30	0.5 mL	HB	9/27/99	SW4080A B26	AP	5 mL	
- LCS3									
S0791-07									
- 08									
- 11									
- 12									
- 13									
- 14									
- 15			.25mL					2.5 mL	
- 16			.5mL					5.0 mL	
- 17									

COPY.. ORIGINAL FOUND IN CEIMIC LOGBOOK

Ceimic Corporation
Pesticide/PCB Laboratory
Extract Transfer Logbook

	Sample Lab ID	Prep Lab Transfer				GC Lab Check-Out			Review By
		Volume	Date	Time	Initials	Date	Hold	Initials	
	P082907PE	1mL hex	09/22/97	1700	HB				
	P0915-B4	1mL hex	9/22/99	23:00	BM				
	-BB4	↓	↓	↓	↓				
	-LCS4								
	P0807-01								
	-02	↓	↓	↓	↓				
	P0799-06	1mL hex	9/22/99	23:00	BM				
	-14	↓	↓	↓	↓				
	P0799-10	1mL hex	9/22/99	23:00	BM				
	-11	↓	↓	↓	↓				
	-16								
	-17								
	-18								
	-19	↓	↓	↓	↓				
	-20								
	P0914-B8	1mL hex	9/23/99	1:20:00	MRK				
	-BB8	↓	↓	↓	↓				
	-LCS8								
	P0802-01								
	-01MS								
	-01MSD								
	-02								
	-03								
	-04								
	-13	↓	↓	↓	↓				
	GC922-B5	1mL Hex	9/23/99	14:00	AS				
	-BB5	↓	↓	↓	↓				
	-LCS5								
	GC921-02MS								
	-02MSD								
	-03	↓	↓	↓	↓				

Comments:

Comments:

COPY.. ORIGINAL FOUND IN CEIMIC LOGBOOK

1792

Ceimic Corporation

Pesticide/PCB Laboratory

Extract Transfer Logbook

Sample Lab ID	Prep Lab Transfer				GC Lab Check-Out			Review By
	Volume	Date	Time	Initials	Date	Hold	Initials	
P0802-05	1 mL hex	09/24/99	13:00	HB	9/24/99	11/03/99	B	AS
-05MS								
-05MSD								
-06								
-07								
-08								
P0932-[illegible]								
[illegible]								
[illegible]								
[illegible]								
[illegible]								
[illegible]								
[illegible]								
[illegible]								
[illegible]								
[illegible]								
[illegible]								
P6P0926-B1Y	1 ml hex	9/26/99	19:00	CM	09/26/99	11/05/99	B	XD
CC0926-CK1Y								
-CK2Y								
P0920-B3								
-LCS3								
P8812-01								
-02								
-02MS								
-02MSD								
-07								
P0924-BL								
-BAL								
-LCSL								
P0845-01								
Comments:					Comments:			

PCB ONLY

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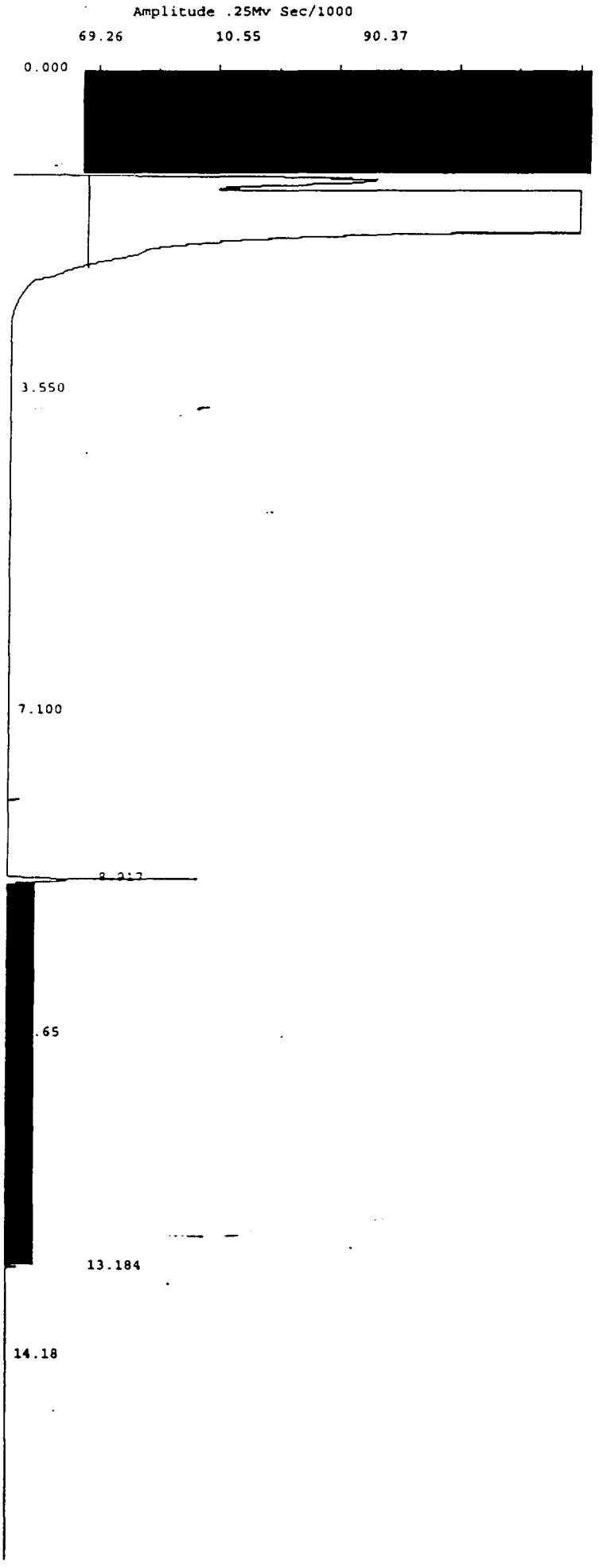
QAT0065

Page # 003



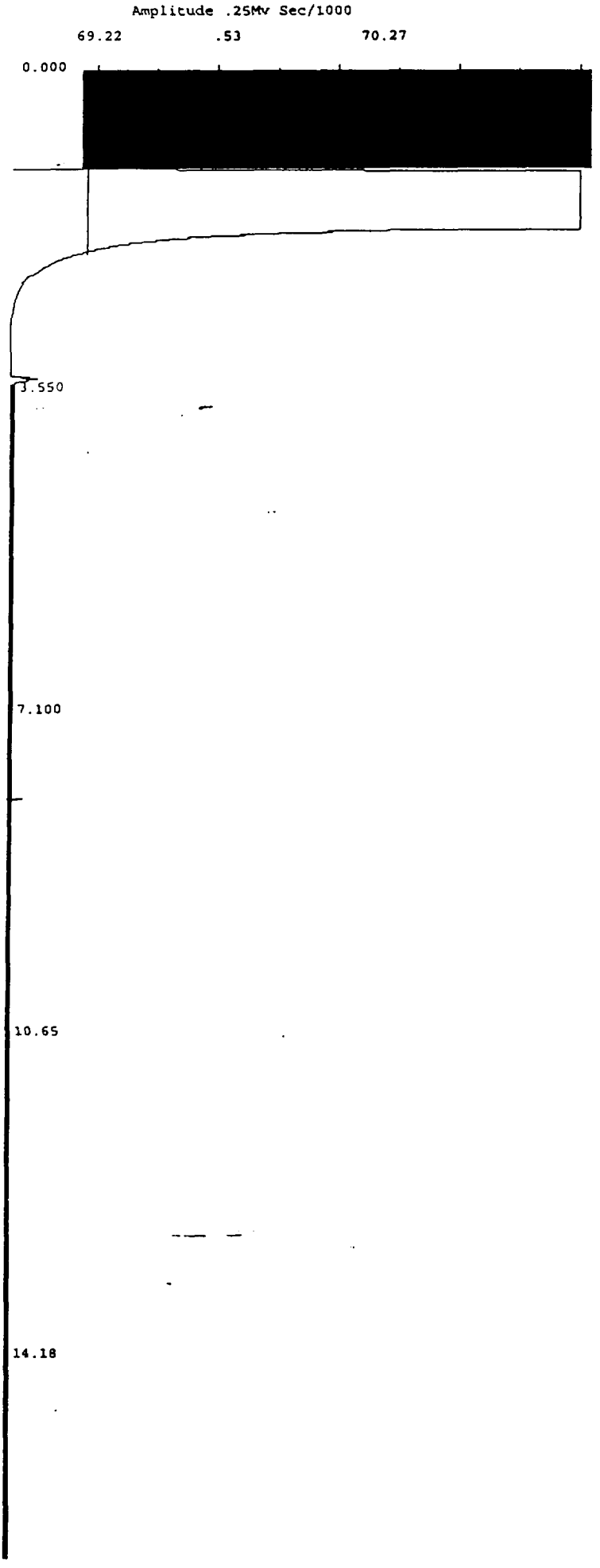
Ceimic Corporation Pest/PCB Report

Sample Name : GC/FID
Lab Id :
Inst Id & Col : GC2, DB-5
Volume Injected: 1.0 uL
Multilevel : False
Peak Processor : Genie
Application : Loop
Calculation : Zero
Quantitation: HeightUnits
Result File : /DATA/RESULT/R22S15SEP024.RES
Inject Time : 2317 15Sep1999
Run Status : RunStatusOK

Pk #	RT	Area	Code		Name
1	8.92	10493	BB	88.340	
2	13.18	1734	BB	11.660	

Total Area: 0

Method File: /DATA/METHOD/BNA22.MTH
Format File: /DATA/FORMAT/DUAL_COL.FMT
Report Time: 2339 15Sep1999

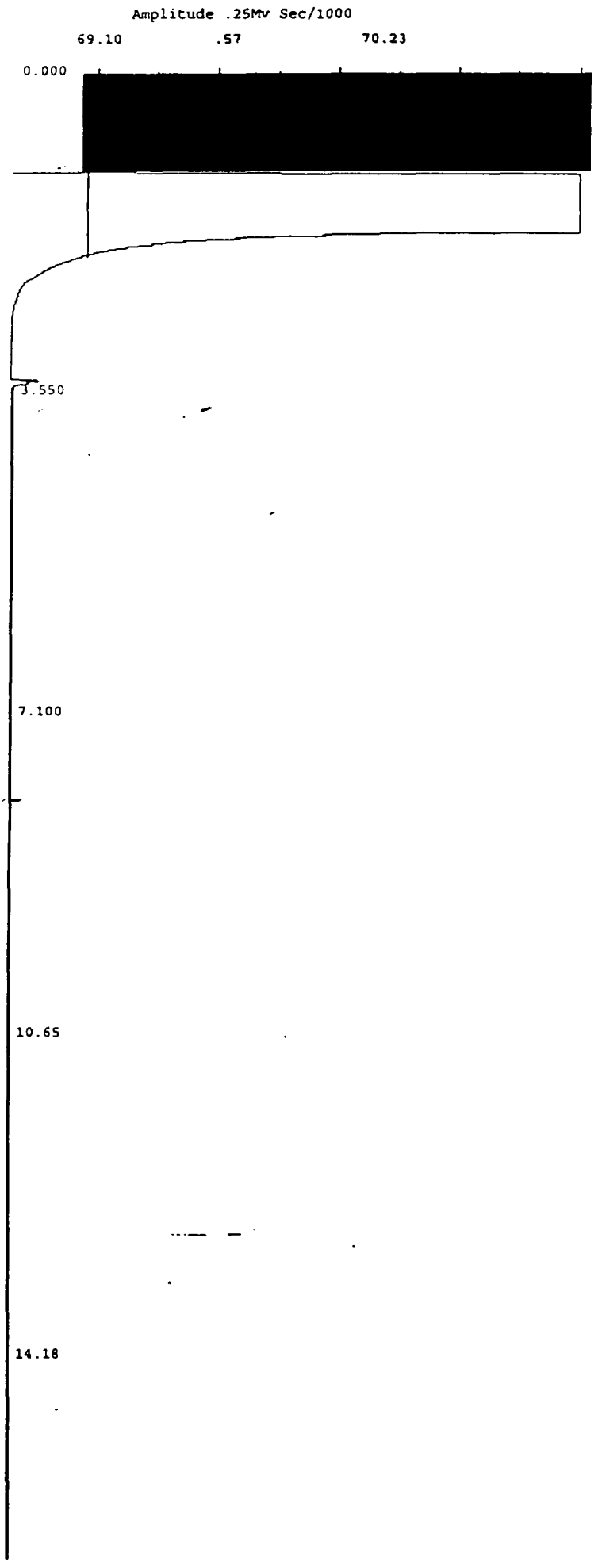


Ceimic Corporation Pest/PCB Report

Sample Name : 802-05
Lab Id :
Inst Id & Col : GC2, DB-5
Volume Injected: 1.0 uL
Multilevel : False
Peak Processor : Genie
Application : Loop
Calculation : Zero
Quantitation: HeightUnits
Result File : /DATA/RESULT/R22S15SEP025.RES
Inject Time : 2343 15Sep1999
Run Status : RunStatusOK
NoPeaks

Total Area: 0

Method File: /DATA/METHOD/BNA22.MTH
Format File: /DATA/FORMAT/DUAL_COL.FMT
Report Time: 0004 16Sep1999

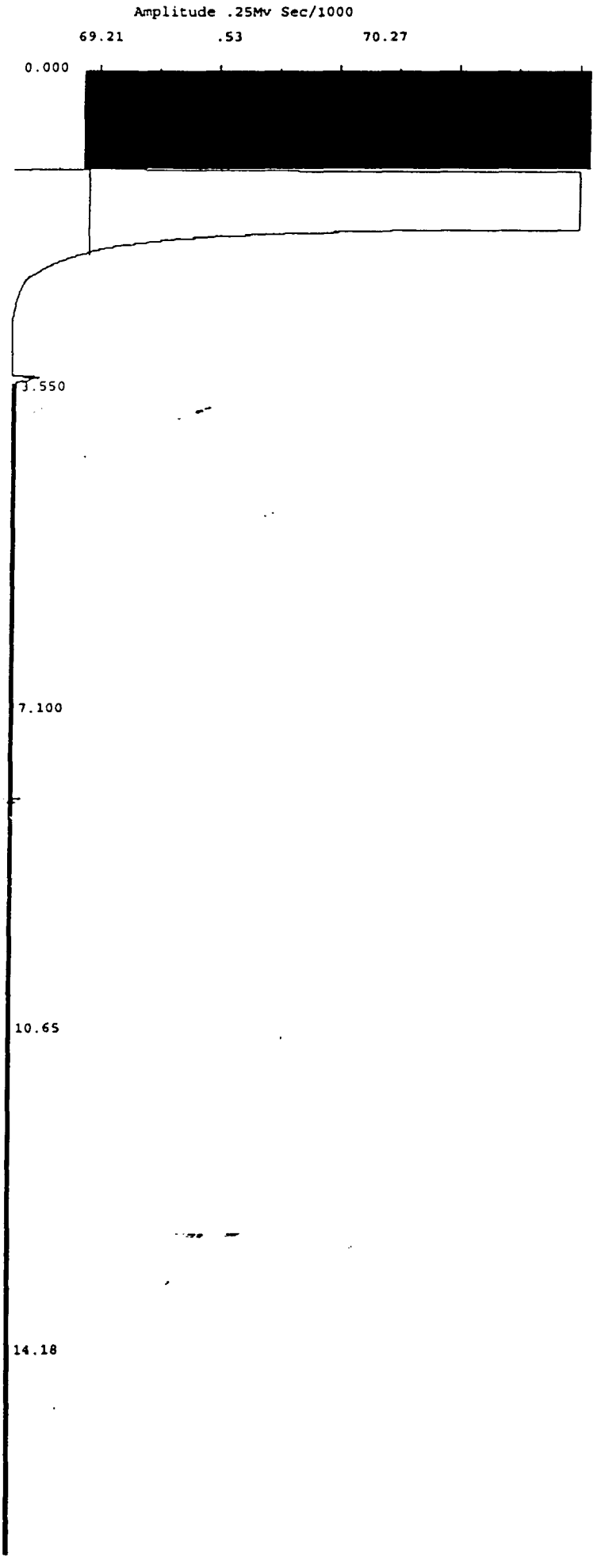


Ceimic Corporation Pest/PCB Report

Sample Name : 502-06
Lab Id :
Inst Id & Col : GC2, DB-5
Volume Injected: 1.0 uL
Multilevel : False
Peak Processor : Genie
Application : Loop
Calculation : Zero
Quantitation: HeightUnits
Result File : /DATA/RESULT/R22S15SEP026.RES
Inject Time : 0009 16Sep1999
Run Status : RunStatusOK
EndOffBaseline
NoPeaks

Total Area: 0

Method File: /DATA/METHOD/BNA22.MTH
Format File: /DATA/FORMAT/DUAL_COL.FMT
Report Time: 0030 16Sep1999

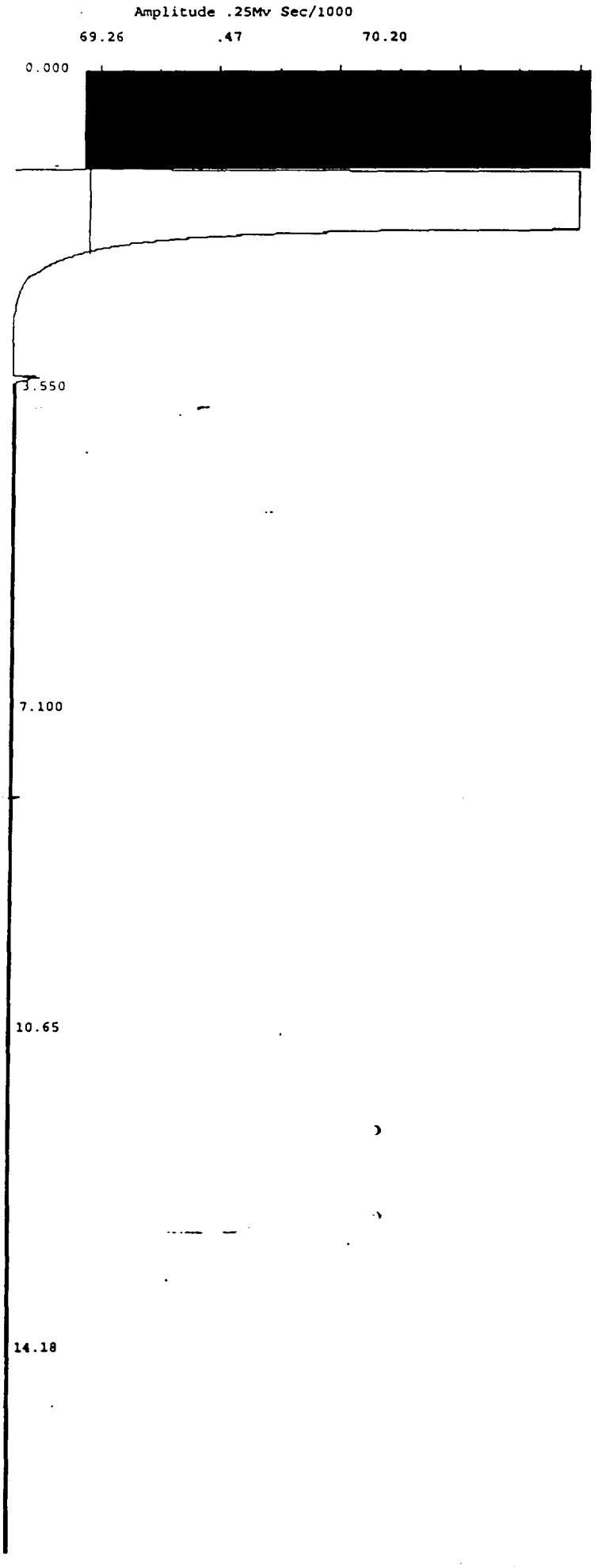


Ceimic Corporation Pest/PCB Report

Sample Name :
Lab Id : 802-07
Inst Id & Col : GC2, DB-5
Volume Injected: 1.0 uL
Multilevel : False
Peak Processor : Genie
Application : Loop
Calculation : Zero
Quantitation: HeightUnits
Result File : /DATA/RESULT/R22S15SEP027.RES
Inject Time : 0034 16Sep1999
Run Status : RunStatusOK
EndOffBaseline
NoPeaks

Total Area: 0

Method File: /DATA/METHOD/BNA22.MTH
Format File: /DATA/FORMAT/DUAL_COL.FMT
Report Time: 0056 16Sep1999



Ceimic Corporation Pest/PCB Report

Sample Name : 802-08
Lab Id :
Inst Id & Col : GC2, DB-5
Volume Injected: 1.0 uL
Multilevel : False
Peak Processor : Genie
Application : Loop
Calculation : Zero
Quantitation: HeightUnits
Result File : /DATA/RESULT/R22S15SEP028.RES
Inject Time : 0100 16Sep1999
Run Status : RunStatusOK
NoPeaks

Total Area: 0

Method File: /DATA/METHOD/BNA22.MTH
Format File: /DATA/FORMAT/DUAL_COL.FMT
Report Time: 0122 16Sep1999

Ceimic Corporation
Organic Prep Laboratory
GPC Sample Run Log

GPC: ____
Flow Rate: Gem

Date	Carousel #	Run #	Ceimic ID	Start Volume	Volume Injected	Comments	Init.	Re E
07/23/99	7		S0914-LCS1	3.90 ml	1.95 ml	SVOC	HB	
	8		AS0799-08MSD					
	9		S0780-17					
	10		-18					
	11		-19					
	12		-20					
	13		S0791-07					
	14		-08					
	15		-11					
	16		-12					
	17		-13					
	18		-14					
	19		-15					
	20		-16					
	21		-17					
	22		-18					
	23		-19					
	24		-20					
	25		S0795-01					
	26		-02					
	27		-03					
	28		S0802-05					
	29		-05MS					
	30		-05MSD					
	31		-06					
	32		-07					
	33		-08					
9/25/99	1		T. A	3.9 ml	1.95 ml	SVOA	BM	
	2		S0924 -B7					
	3		-LCS7					
	4		S0845-01					
	5		S0845-02					
	6		-02MS					
	7		-02MSD					

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1799

QAT0084

Page # _____

Ceimic Corporation
Organic Prep Laboratory
GPC Sample Run Log

GPC: Y
Flow Rate: 6 ml/min

Date	Carousel #	Run #	Ceimic ID	Start Volume	Volume Injected	Comments	Init.	Review By
09/23/99	11		P0802-05MS	3.9 mL	1.95 mL	Pest/PCB	HB	[illegible]
	12		-05MSD					
	13		-06					
	14		-07					
	15		-08					
	16		P0812-01					
	17		-02					
	18		-02MS					
	19		-02MSD					
	20		-03					
	21		-08					
	22		-09					
9/25/99	1		-A	3.9ml	1.95ml	Pest	BG	
	2		P0924-B5					
	3		-LCSS					
	4		P0845-01					
	5		-02					
	6		-02MS					
	7		02MSD					
	8		-03					
9/25/99	9		TA	3.9ml	1.95ml	Pest/PCB	CAJ	
	10		P0920-B3					
	11		-LCSS					
	12		P0812-01					
	13		-02					
	14		-02MS					
	15		-02MSD					
	16		-03					
9/27/99	1		TA	3.9ml	1.95ml	Pest/PCB	[illegible]	HB
	2		S0923-B3					
	3		S0927-B1					
	4		S0923LCS					
	5		S0924LCS1					
	6		RS0823-01					

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1800

EPA Shipping/Receiving Documents

EPA Shipping/Receiving Documents

ENVIRONMENTAL PROTECTION AGENCY

REGION 1

TOX SURFACE WATER/SEDIMENT SAMPLING

CHAIN OF CUSTODY RECORD

[illegible] 217 Middlesex Tnpk. Burlington, MA 01803

page 2 of 2

PROJ. NO.: DAS Case # 0291 F

PROJECT NAME: Rogers Fibre Mill, Bar Mills, ME

SAMPLERS: (Signature)

STA. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION	NO. OF CONTAINERS	VOCS	SVOCS	PEST/PCB	Total Metals/Cn	Dissolved Metals	TCL + TAL/SEM	DAS Sample No.	REMARKS
PE-09	9/9/99	1400		X	PE# TT02874	1			X				D00079	performance evaluation
PE-10	↓	1400		X	PE# TC00983	1				X			D00080	↓
PE-11		1400		X	PE# 001732.8	1				X			D00081	
PE-12		1400		X	PE# 001406	1	X						D00082	
PE-13		1400		X	PE# 0027318	1		X					D00083	
PE-14	↓	1400		X	PE# 001170	1				X			D00084	↓

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
	9/10/99 11:45				
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks	
			9.10.99 12:00	Fax/Send results to Gretchen Franzbrien #781-229-6430 fax # 781-272-3619	

Distribution: Original Accompanies Shipment; Copy to Coordinator Field Files

1-10190

REGION 1

SAMPLING

CHAIN OF CUSTODY RECORD

[illegible] 217 Middlesex Tnpk
Burlington, MA 01803

page 2 of 2

PROJ. NO.: Case # [illegible]

PROJECT NAME: Rogers Fibre Mill, Bar Mills, ME

SAMPLERS: (Signature) [illegible] M Butterworth

STA. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION	NO. OF CONTAINERS	VOCs	SVOCs	Metals/Cyanide	Total Metals/Cyanide	Dissolved Metals	Pest & PCBs/PFM	REMARKS: DHS Sample No.
09	9/9/99	14:00		X	PE # TT02874	1			X				D00079 performance evaluation
10		14:00		X	PE # TCC00983	1				X			D00080
11		14:00		X	PE # 0017328	1				X			D00081
12		14:00		X	PE # 0014406	1	X						D00082
13		14:00		X	PE # 0027318	1		X					D00083
14		14:00		X	PE # 0011170	1				X			D00084

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
[illegible]	9/10/99 11:45				
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks	
		Amy St Johns	9.10.99 12:00	Fax/Send results to Gretchen Franzheim #781-229-6430 fax # 781-272-3619	

Distribution: Original Accompanies Shipment; Copy to Coordinator Field Files

18803

1-10190

ENVIRONMENTAL PROTECTION AGENCY

REGION 1

CHAIN OF CUSTODY RECORD

Burlington, MA 01803

PROJ. NO.: DAS Case # 0291F

PROJECT NAME: Rogers Fibre Mill, Bar Mills, ME

SAMPLERS: (Signature)

page 1 of 2

STA. NO.	DATE	TIME	COMP	GRAB	STATION LOCATION	NO. OF CONTAINERS	VOCs	SVOCs	Pesticide/PCB	Total Metals/Cn	Dissolved Metals	TOC & TVS/SEM	DAS Sample #	REMARKS
SW-05	9/9/99	0845		X	Downstream - Wilson's	25	X9	X12	X6	X4			D00064	MS/MSD/Dup
SW-06		0920		X	Downstream - Hanton's	9	X3	X2	X2	X2			D00065	
SW-07		1000		X	Downstream by bridge	9	X3	X2	X1	X2			D00066	
SW-08		1015		X	Upstream in mill pond	9	X3	X2	X2	X2			D00067	
SED-05		0830	X		Downstream - Wilson's	17	X4	X3	X3	X3		X2	D00068	MS/MSD/Dup
SED-06		0915	X		Downstream - Hanton's	6	X3	X1	X1	X1		X1	D00069	
SED-07		0950	X		Downstream by bridge	6	X2	X1	X1	X1		X1	D00070	
SED-08		1020	X		Upstream in mill pond	6	X2	X1	X1	X1		X1	D00071	
SW-05		0845		X	Downstream - Wilson's	2					X		D00072	MS/MSD/Dup
SW-06		0920		X	Downstream - Hanton's	1					X		D00073	
SW-07		1000		X	Downstream by bridge	1					X		D00074	
SW-08		1015		X	Upstream in mill pond	1					X		D00075	
RB-02		1125		X	rinsate blank	9	X3	X2	X1	X2			D00076	
TB-02		1135		X	trip blank for VOC	3	X						D00077	
PE-08		1400		X	PE # 0020756	1			X				D00078	

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
	9/10/99 11:45				
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks	
			9.10.99 12:00	Fax/Send results to Gretchen Franzheim # 781-229-6430 fax # 781-272-3619	

Distribution: Original Accompanies Shipment; Copy to Coordinator Field Files

1-10189

1-10189

ENVIRONMENTAL PROTECTION AGENCY

REGION 1

POST SURFACE WATER ASSESSMENT SAMPLING

CHAIN OF CUSTODY RECORD

PROJ. NO.: PA-CASE II SITE

PROJECT NAME: Rogers Fibre Mill, Bar Mills, ME

SAMPLERS: (Signature)

page 1 of 2

STA. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION	NO. OF CONTAINERS	Metals	Cyanide	Semivolatile/PIB	Volatile Organics	Pesticides/PCBs	Air & Engine Exhaust	REMARKS
													PAC Sample #
SW-05	9/9/99	0845		X	Downstream Williams	25	X	X	X	X			DC0067 MS/MSD/Dup
SW-06		0920		X	Downstream Hawkins	9	X	X	X	X			DC0068
SW-07		1000		X	Downstream by bridge	9	X	X	X	X			DC0069
SW-08		1015		X	Upstream in mill pond	9	X	X	X	X			DC0070
SED-05		0830	X		Downstream Williams	17	X	X	X	X		X	DC0068 MS/MSD/Dup
SED-06		0915	X		Downstream Hawkins	6	X	X	X	X		X	DC0069
SED-07		0950	X		Downstream by bridge	6	X	X	X	X		X	DC0070
SED-08		1020	X		Upstream in mill pond	6	X	X	X	X		X	DC0071
SW-05		0845		X	Downstream Williams	2					X		DC0072 MS/MSD/Dup
SW-06		0920		X	Downstream Hawkins	1					X		DC0073
SW-07		1000		X	Downstream by bridge	1					X		DC0074
SW-08		1015		X	Downstream in mill pond	1					X		DC0075
RB-02		1135		X	rinsate blank	1	X	X	X	X			DC0076
TB-02		1135		X	trip blank for VOC	3	X						DC0077
PE-08		1600		X	PE # 002.0756	1			X				DC0078

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
	9/10/99 11:45				
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks	
			9-10-99 12:00	Fax/send results to Gretchen Franchem @ 781-229-6430 fax # 781-272-3649	

Distribution: Original Accompanies Shipment; Copy to Coordinator Field Files

1-10189

Case #	Station Location
DAS 0291F	PE-13
CLP Sample #	Contractor Sample #
	D00083
Sampling Month/Day/Year	Sampling Time
9/9/99	1400
Matrix: AQ	Designate: Comp. / (Grab)

Preservatives used: HCl ; HNO_3 ; other; Specify
Yes ; (No) (Circle One)

ANALYSES	CHECK BOX THAT APPLIES TO THIS SAMPLE BOTTLE
Low/Med SOW VOA Organics	
Low/Med SOW Semi-VOA Organics	X
Low/Med SOW Pest/PCBs	
Low Conc SOW VOA Organics	
Low Conc SOW Semi-VOA Organics	
Low Conc SOW Pest/PCBs 1914	
Low/Med SOW Metals	
Low/Med SOW Cyanide	
Low Conc SOW Metals	
Low Conc SOW Cyanide	
Other:	

Tag No. ~~141187~~ performance evaluation

Sampler(s) Signatures: M Bottenwik

REGION I

Case #	Station Location
DAS 0291E	PE-12
CLP Sample #	Contractor Sample #
	D00082
Sampling Month/Day/Year	Sampling Time
9/9/99	1400
Matrix: AQ	Designate: Comp. / (Grab)

Preservatives used: HCl ; HNO_3 ; other; Specify
Yes ; (No) (Circle One)

ANALYSES	CHECK BOX THAT APPLIES TO THIS SAMPLE BOTTLE
Low/Med SOW VOA Organics	X
Low/Med SOW Semi-VOA Organics	
Low/Med SOW Pest/PCBs	
Low Conc SOW VOA Organics	
Low Conc SOW Semi-VOA Organics	
Low Conc SOW Pest/PCBs	
Low/Med SOW Metals	
Low/Med SOW Cyanide 1915	
Low Conc SOW Metals	
Low Conc SOW Cyanide	
Other:	

Tag No. ~~141186~~ performance evaluation

Sampler(s) Signatures: M Bottenwik

REGION I

Case #	Station Location
DAS 0291E	PE-09
CLP Sample #	Contractor Sample #
	D00079
Sampling Month/Day/Year	Sampling Time
9/9/99	
Matrix: Soil	Designate: Comp. / (Grab)

Preservatives used: HCl ; HNO_3 ; other; Specify
Yes ; (No) (Circle One)

ANALYSES	CHECK BOX THAT APPLIES TO THIS SAMPLE BOTTLE
Low/Med SOW VOA Organics	
Low/Med SOW Semi-VOA Organics	X
Low/Med SOW Pest/PCBs	
Low Conc SOW VOA Organics	
Low Conc SOW Semi-VOA Organics	
Low Conc SOW Pest/PCBs 1916	
Low/Med SOW Metals	
Low/Med SOW Cyanide	
Low Conc SOW Metals	
Low Conc SOW Cyanide	
Other:	

Tag No. ~~141183~~ performance evaluation

Sampler(s) Signatures: M Bottenwik

REGION I

DAS Case #	Station Location
0291F	PE-08
CLP Sample #	Contractor Sample #
	D00078
Sampling Month/Day/Year	Sampling Time
9/9/99	
Matrix: Ag	Designate: Comp. / Grab (Grab)
Preservatives used: HCl ; HNO_3 ; other; Specify	
Yes ; No (Circle One)	

ANALYSES	CHECK BOX THAT APPLIES TO THIS SAMPLE BOTTLE
Low/Med SOW VOA Organics 1911	
Low/Med SOW Semi-VOA Organics	
Low/Med SOW Pest/PCBs	X
Low Conc SOW VOA Organics	
Low Conc SOW Semi-VOA Organics	
Low Conc SOW Pest/PCBs	
Low/Med SOW Metals	
Low/Med SOW Cyanide	
Low Conc SOW Metals	
Low Conc SOW Cyanide	
Other:	

Tag No. ~~144192~~ performance evaluation

Sampler(s) Signatures: M Butterworth

REGION I

DAS Case #	Station Location
0291F	PE-10
CLP Sample #	Contractor Sample #
	D00080
Sampling Month/Day/Year	Sampling Time
9/9/99	
Matrix: Soil	Designate: Comp. / Grab (Grab)
Preservatives used: HCl ; HNO_3 ; other; Specify	
Yes ; No (Circle One)	

ANALYSES	CHECK BOX THAT APPLIES TO THIS SAMPLE BOTTLE
Low/Med SOW VOA Organics	
Low/Med SOW Semi-VOA Organics	
Low/Med SOW Pest/PCBs	
Low Conc SOW VOA Organics	
Low Conc SOW Semi-VOA Organics	
Low Conc SOW Pest/PCBs	
Low/Med SOW Metals	
Low/Med SOW Cyanide 1912	X
Low Conc SOW Metals	
Low Conc SOW Cyanide	
Other:	

Tag No. ~~144194~~ performance evaluation

Sampler(s) Signatures: M Butterworth

REGION I

DAS Case #	Station Location
0291F	PE-14
CLP Sample #	Contractor Sample #
	D00084
Sampling Month/Day/Year	Sampling Time
9/9/99	1900
Matrix: Ag	Designate: Comp. / Grab (Grab)
Preservatives used: HCl ; HNO_3 ; other; Specify	
Yes ; No (Circle One)	

ANALYSES	CHECK BOX THAT APPLIES TO THIS SAMPLE BOTTLE
Low/Med SOW VOA Organics	
Low/Med SOW Semi-VOA Organics	
Low/Med SOW Pest/PCBs	
Low Conc SOW VOA Organics	
Low Conc SOW Semi-VOA Organics	
Low Conc SOW Pest/PCBs	
Low/Med SOW Metals	
Low/Med SOW Cyanide 1913	X
Low Conc SOW Metals	
Low Conc SOW Cyanide	
Other:	

Tag No. ~~144188~~ performance evaluation

Sampler(s) Signatures: M Butterworth

REGION I

DAS Case # 0291F

Station Location: TB-02

CLP Sample #:

Contractor Sample #: D00077

Sampling Month/Day/Year: 9/9/99

Sampling Time: 1135

Matrix: Aq.

Designate: Comp. / Grab

Preservatives used: HCl ; HNO_3 ; other; Specify: pH<2

Yes / No (Circle One)

ANALYSES	CHECK BOX THAT APPLIES TO THIS SAMPLE BOTTLE
Low/Med SOW VOA Organics	X
Low/Med SOW Semi-VOA Organics	
Low/Med SOW Pest/PCBs	
Low Conc SOW VOA Organics	
Low Conc SOW Semi-VOA Organics	
Low Conc SOW Pest/PCBs	
Low/Med SOW Metals	
Low/Med SOW Cyanide	
Low Conc SOW Metals	1908
Low Conc SOW Cyanide	
Other:	

Tag No. ~~14455~~ trip blank

Sampler(s) Signatures: MPutten

REGION I

DAS Case # 0291F

Station Location: TB-02

CLP Sample #:

Contractor Sample #: D00077

Sampling Month/Day/Year: 9/9/99

Sampling Time: 1135

Matrix: Aq.

Designate: Comp. / Grab

Preservatives used: HCl ; HNO_3 ; other; Specify: pH<2

Yes / No (Circle One)

ANALYSES	CHECK BOX THAT APPLIES TO THIS SAMPLE BOTTLE
Low/Med SOW VOA Organics	X
Low/Med SOW Semi-VOA Organics	
Low/Med SOW Pest/PCBs	
Low Conc SOW VOA Organics	1903
Low Conc SOW Semi-VOA Organics	
Low Conc SOW Pest/PCBs	
Low/Med SOW Metals	
Low/Med SOW Cyanide	
Low Conc SOW Metals	
Low Conc SOW Cyanide	
Other:	

Tag No. ~~14455~~ trip blank

Sampler(s) Signatures: MPutten

REGION I

DAS Case # 0291F

Station Location: PE-11

CLP Sample #:

Contractor Sample #: D00081

Sampling Month/Day/Year: 9/9/99

Sampling Time:

Matrix: Aq.

Designate: Comp. / Grab

Preservatives used: HCl ; HNO_3 ; other; Specify:

Yes / No (Circle One)

ANALYSES	CHECK BOX THAT APPLIES TO THIS SAMPLE BOTTLE
Low/Med SOW VOA Organics	
Low/Med SOW Semi-VOA Organics	
Low/Med SOW Pest/PCBs	
Low Conc SOW VOA Organics	
Low Conc SOW Semi-VOA Organics	
Low Conc SOW Pest/PCBs	1910
Low/Med SOW Metals	
Low/Med SOW Cyanide	X
Low Conc SOW Metals	
Low Conc SOW Cyanide	
Other:	

Tag No. ~~14455~~ performance evaluation

Sampler(s) Signatures: MPutten

REGION I

DAS Case # 0291F

Station Location RB-02

CLP Sample #

Contractor Sample # D00076

Sampling Month/Day/Year 9/9/99

Sampling Time 1125

Matrix Aq.

Designate: Comp. Grab

Preservatives used: HCl ; HNO_3 ; other: Specify

Yes ; No (Circle One) ICE

ANALYSES	CHECK BOX THAT APPLIES TO THIS SAMPLE BOTTLE
Low/Med SOW VOA Organics	
Low/Med SOW Semi-VOA Organics	
Low/Med SOW Pest/PCBs	
Low Conc SOW VOA Organics	X
Low Conc SOW Semi-VOA Organics	
Low Conc SOW Pest/PCBs	
Low/Med SOW Metals	
Low/Med SOW Cyanide	
Low Conc SOW Metals	
Low Conc SOW Cyanide	
Other:	

1905

Tag No. ~~144159~~

Sampler(s) Signatures MButterworth

REGION I

DAS Case # 0291F

Station Location RB-02

CLP Sample #

Contractor Sample # D00076

Sampling Month/Day/Year 9/9/99

Sampling Time 1125

Matrix Aq.

Designate: Comp. Grab

Preservatives used: HCl ; HNO_3 ; other: Specify

Yes ; No (Circle One) ICE

ANALYSES	CHECK BOX THAT APPLIES TO THIS SAMPLE BOTTLE
Low/Med SOW VOA Organics	
Low/Med SOW Semi-VOA Organics	X
Low/Med SOW Pest/PCBs	
Low Conc SOW VOA Organics	
Low Conc SOW Semi-VOA Organics	
Low Conc SOW Pest/PCBs	
Low/Med SOW Metals	
Low/Med SOW Cyanide	
Low Conc SOW Metals	
Low Conc SOW Cyanide	
Other:	

1906

Tag No. ~~144155~~

Sampler(s) Signatures MButterworth

REGION I

DAS Case # 0291F

Station Location TB-02

CLP Sample #

Contractor Sample # D00077

Sampling Month/Day/Year 9/9/99

Sampling Time 1135

Matrix Aq

Designate: Comp. Grab

Preservatives used: HCl ; HNO_3 ; other: Specify

Yes ; No (Circle One) ph<2 ok

ANALYSES	CHECK BOX THAT APPLIES TO THIS SAMPLE BOTTLE
Low/Med SOW VOA Organics	X
Low/Med SOW Semi-VOA Organics	
Low/Med SOW Pest/PCBs	
Low Conc SOW VOA Organics	
Low Conc SOW Semi-VOA Organics	
Low Conc SOW Pest/PCBs	
Low/Med SOW Metals	
Low/Med SOW Cyanide	
Low Conc SOW Metals	
Low Conc SOW Cyanide	
Other:	

1907

Tag No. ~~144280~~ trip blank

Sampler(s) Signatures MButterworth

REGION I

DAS Case #	Station Location
0291F	RB-02
CLP Sample #	Contractor Sample #
	D00076
Sampling Month/Day/Year	Sampling Time
9/9/99	1125
Matrix: Aq.	Designate: Comp. / Grab
Preservatives used: HCl / HNO_3 / other; Specify:	
Yes / No (Circle One)	ICE

ANALYSES	CHECK BOX THAT APPLIES TO THIS SAMPLE BOTTLE
Low/Med SOW VOA Organics	
Low/Med SOW Semi-VOA Organics	X
Low/Med SOW Pest/PCBs	
Low Conc SOW VOA Organics	
Low Conc SOW Semi-VOA Organics	
Low Conc SOW Pest/PCBs	
Low/Med SOW Metals	
Low/Med SOW Cyanide 1902	
Low Conc SOW Metals	
Low Conc SOW Cyanide	
Other:	

Tag No. ~~144158~~ 1441[illegible]

Sampler(s) Signatures: MBrittenworth

REGION I

DAS Case #	Station Location
0291F	RB-02
CLP Sample #	Contractor Sample #
	D00076
Sampling Month/Day/Year	Sampling Time
9/9/99	1125
Matrix: Aq.	Designate: Comp. / Grab
Preservatives used: HCl / HNO_3 / other; Specify:	
Yes / No (Circle One)	NaOH ph>12

ANALYSES	CHECK BOX THAT APPLIES TO THIS SAMPLE BOTTLE
Low/Med SOW VOA Organics	
Low/Med SOW Semi-VOA Organics	
Low/Med SOW Pest/PCBs	
Low Conc SOW VOA Organics	
Low Conc SOW Semi-VOA Organics	
Low Conc SOW Pest/PCBs	
Low/Med SOW Metals	
Low/Med SOW Cyanide 1903	X
Low Conc SOW Metals	
Low Conc SOW Cyanide	
Other:	

Tag No. ~~144160~~ 1441[illegible]

Sampler(s) Signatures: MBrittenworth

REGION I

DAS Case #	Station Location
0291F	RB-02
CLP Sample #	Contractor Sample #
	D00076
Sampling Month/Day/Year	Sampling Time
9/9/99	1125
Matrix: Aq.	Designate: Comp. / Grab
Preservatives used: HCl / HNO_3 / other; Specify:	
Yes / No (Circle One)	ICE

ANALYSES	CHECK BOX THAT APPLIES TO THIS SAMPLE BOTTLE
Low/Med SOW VOA Organics	
Low/Med SOW Semi-VOA Organics	
Low/Med SOW Pest/PCBs	X
Low Conc SOW VOA Organics	
Low Conc SOW Semi-VOA Organics	
Low Conc SOW Pest/PCBs	
Low/Med SOW Metals	
Low/Med SOW Cyanide	
Low Conc SOW Metals	
Low Conc SOW Cyanide	
Other: 1904	

Tag No. ~~144180~~ 1441[illegible]

Sampler(s) Signatures: MBrittenworth

REGION I

DAS Case #	Station Location
0291F	RB-02
CLP Sample #	Contractor Sample #
	D00076
Sampling Month/Day/Year	Sampling Time
9/9/99	1125
Matrix: Aq.	Designate: Comp. / (Grab)
Preservatives used: (HCl) HNO3 other: Specify:	
(Yes) No (Circle One)	ph<2

ANALYSES	CHECK BOX THAT APPLIES TO THIS SAMPLE BOTTLE
Low/Med SOW VOA Organics	X
Low/Med SOW Semi-VOA Organics	
Low/Med SOW Pest/PCBs	
Low Conc SOW VOA Organics	
Low Conc SOW Semi-VOA Organics	
Low Conc SOW Pest/PCBs	
Low/Med SOW Metals	
Low/Med SOW Cyanide	
Low Conc SOW Metals	
Low Conc SOW Cyanide 1999	
Other:	

Tag No. ~~144150~~ MB rinsate blank

Sampler(s) Signatures: M Butterworth

REGION I

DAS Case #	Station Location
0291F	RB-02
CLP Sample #	Contractor Sample #
	D00076
Sampling Month/Day/Year	Sampling Time
9/9/99	1125
Matrix: Aq	Designate: Comp. / (Grab)
Preservatives used: (HCl) HNO3 other: Specify:	
(Yes) No (Circle One)	ph<2

ANALYSES	CHECK BOX THAT APPLIES TO THIS SAMPLE BOTTLE
Low/Med SOW VOA Organics	X
Low/Med SOW Semi-VOA Organics	
Low/Med SOW Pest/PCBs	
Low Conc SOW VOA Organics	
Low Conc SOW Semi-VOA Organics	
Low Conc SOW Pest/PCBs	
Low/Med SOW Metals 1900	
Low/Med SOW Cyanide	
Low Conc SOW Metals	
Low Conc SOW Cyanide	
Other:	

Tag No. ~~144151~~ MB rinsate blank

Sampler(s) Signatures: M Butterworth

REGION I

DAS Case #	Station Location
0291F	RB-02
CLP Sample #	Contractor Sample #
	D00076
Sampling Month/Day/Year	Sampling Time
9/9/99	1125
Matrix: Aq.	Designate: Comp. / (Grab)
Preservatives used: (HCl) HNO3 other: Specify:	
(Yes) No (Circle One)	ph<2

ANALYSES	CHECK BOX THAT APPLIES TO THIS SAMPLE BOTTLE
Low/Med SOW VOA Organics	
Low/Med SOW Semi-VOA Organics	
Low/Med SOW Pest/PCBs	
Low Conc SOW VOA Organics	
Low Conc SOW Semi-VOA Organics	
Low Conc SOW Pest/PCBs	
Low/Med SOW Metals 1900	X
Low/Med SOW Cyanide	
Low Conc SOW Metals	
Low Conc SOW Cyanide	
Other:	

Tag No. ~~144152~~ MB

Sampler(s) Signatures: M Butterworth

REGION I

DAS Case #	Station Location
0291F	SW-07
CLP Sample #	Contractor Sample #
	D00074
Sampling Month/Day/Year	Sampling Time
9/9/99	1000
Matrix: Aq.	Designate: Comp. / (Grab)
Preservatives used: HCl ; (HNO_3) ; other; Specify: ph<2	
(Yes) / No (Circle One)	

ANALYSES	CHECK BOX THAT APPLIES TO THIS SAMPLE BOTTLE
Low/Med SOW VOA Organics	
Low/Med SOW Semi-VOA Organics	
Low/Med SOW Pest/PCBs	
Low Conc SOW VOA Organics	
Low Conc SOW Semi-VOA Organics	
Low Conc SOW Pest/PCBs	
Low/Med SOW Metals Dissolved	X
Low/Med SOW Cyanide	
Low Conc SOW Metals	
Low Conc SOW Cyanide	
Other: 1896	

Tag No. ~~1 1 1 1 1 1~~

Sampler(s) Signatures: MButterworth

REGION I

DAS Case #	Station Location
0291F	SW-08
CLP Sample #	Contractor Sample #
	D00075
Sampling Month/Day/Year	Sampling Time
9/9/99	1015
Matrix: Aq.	Designate: Comp. / (Grab)
Preservatives used: HCl ; (HNO_3) ; other; Specify: ph<2	
(Yes) / No (Circle One)	

ANALYSES	CHECK BOX THAT APPLIES TO THIS SAMPLE BOTTLE
Low/Med SOW VOA Organics	
Low/Med SOW Semi-VOA Organics	
Low/Med SOW Pest/PCBs	
Low Conc SOW VOA Organics	
Low Conc SOW Semi-VOA Organics	
Low Conc SOW Pest/PCBs	
Low/Med SOW Metals Dissolved	X
Low/Med SOW Cyanide	
Low Conc SOW Metals	
Low Conc SOW Cyanide	
Other: 1897	

Tag No. ~~1 1 1 1 1 1~~

Sampler(s) Signatures: MButterworth

REGION I

DAS Case #	Station Location
0291F	RB-02
CLP Sample #	Contractor Sample #
	D00076
Sampling Month/Day/Year	Sampling Time
9/9/99	1125
Matrix: Aq	Designate: Comp. / (Grab)
Preservatives used: (HCl) ; HNO_3 ; other; Specify: ph<2	
(Yes) / No (Circle One)	

ANALYSES	CHECK BOX THAT APPLIES TO THIS SAMPLE BOTTLE
Low/Med SOW VOA Organics	X
Low/Med SOW Semi-VOA Organics	
Low/Med SOW Pest/PCBs	
Low Conc SOW VOA Organics	
Low Conc SOW Semi-VOA Organics	
Low Conc SOW Pest/PCBs	
Low/Med SOW Metals	
Low/Med SOW Cyanide 1898	
Low Conc SOW Metals	
Low Conc SOW Cyanide	
Other:	

Tag No. ~~1 1 1 1 1 1~~ rinsate blank

Sampler(s) Signatures: MButterworth

REGION I

DPS Case #	Station Location
0291F	SW-05
CLP Sample #	Contractor Sample #
	D00072
Sampling Month/Day/Year	Sampling Time
9/9/99	0845
Matrix: Aq.	Designate: Comp. / Grab
Preservatives used: HCl / HNO_3 / other; Specify:	
Yes / No (Circle One)	ph<2

ANALYSES	CHECK BOX THAT APPLIES TO THIS SAMPLE BOTTLE
Low/Med SOW VOA Organics	
Low/Med SOW Semi-VOA Organics	
Low/Med SOW Pest/PCBs	
Low Conc SOW VOA Organics	
Low Conc SOW Semi-VOA Organics	
Low Conc SOW Pest/PCBs	
Low/Med SOW Metals Dissolved	X
Low/Med SOW Cyanide	
Low Conc SOW Metals	
Low Conc SOW Cyanide	
Other: 1893	

Tag No. 11188

Sampler(s) Signatures: M Butterworth

REGION I

DPS Case #	Station Location
0291F	SW-05
CLP Sample #	Contractor Sample #
	D00072
Sampling Month/Day/Year	Sampling Time
9/9/99	0845
Matrix: Aq.	Designate: Comp. / Grab
Preservatives used: HCl / HNO_3 / other; Specify:	
Yes / No (Circle One)	ph<2

ANALYSES	CHECK BOX THAT APPLIES TO THIS SAMPLE BOTTLE
Low/Med SOW VOA Organics	
Low/Med SOW Semi-VOA Organics	
Low/Med SOW Pest/PCBs	
Low Conc SOW VOA Organics	
Low Conc SOW Semi-VOA Organics	
Low Conc SOW Pest/PCBs	
Low/Med SOW Metals Dissolved	X
Low/Med SOW Cyanide	
Low Conc SOW Metals	
Low Conc SOW Cyanide	
Other: 1894	

Tag No. 11187

Sampler(s) Signatures: M Butterworth

REGION I

DPS Case #	Station Location
0291F	SW-06
CLP Sample #	Contractor Sample #
	D00073
Sampling Month/Day/Year	Sampling Time
9/9/99	0920
Matrix: Aq	Designate: Comp. / Grab
Preservatives used: HCl / HNO_3 / other; Specify:	
Yes / No (Circle One)	ph<2

ANALYSES	CHECK BOX THAT APPLIES TO THIS SAMPLE BOTTLE
Low/Med SOW VOA Organics	
Low/Med SOW Semi-VOA Organics	
Low/Med SOW Pest/PCBs	
Low Conc SOW VOA Organics	
Low Conc SOW Semi-VOA Organics	
Low Conc SOW Pest/PCBs	
Low/Med SOW Metals Dissolved	X
Low/Med SOW Cyanide	
Low Conc SOW Metals	
Low Conc SOW Cyanide	
Other: 1895	

Tag No. 11189

Sampler(s) Signatures: M Butterworth

REGION I

DAS Case #	Station Location
0291F	SED-08
CLP Sample #	Contractor Sample #
	D00071
Sampling Month/Day/Year	Sampling Time
9/9/99	1020
Matrix: Sed	Designate: Comp. / Grab
Preservatives used: HCl / HNO_3 / other; Specify:	
Yes / No (Circle One)	ICE

ANALYSES	CHECK BOX THAT APPLIES TO THIS SAMPLE BOTTLE
Low/Med SOW VOA Organics	
Low/Med SOW Semi-VOA Organics	
Low/Med SOW Pest/PCBs	X
Low Conc SOW VOA Organics	
Low Conc SOW Semi-VOA Organics	
Low Conc SOW Pest/PCBs	
Low/Med SOW Metals	
Low/Med SOW Cyanide	
Low Conc SOW Metals 1890	
Low Conc SOW Cyanide	
Other:	

Tag No. ~~144147~~ MB

Sampler(s) Signatures: M Butterworth

REGION I

DAS Case #	Station Location
0291F	SED-08
CLP Sample #	Contractor Sample #
	D00071
Sampling Month/Day/Year	Sampling Time
9/9/99	1020
Matrix: Sed	Designate: Comp. / Grab
Preservatives used: HCl / HNO_3 / other; Specify:	
Yes / No (Circle One)	ICE

ANALYSES	CHECK BOX THAT APPLIES TO THIS SAMPLE BOTTLE
Low/Med SOW VOA Organics	X
Low/Med SOW Semi-VOA Organics	
Low/Med SOW Pest/PCBs	
Low Conc SOW VOA Organics	
Low Conc SOW Semi-VOA Organics	
Low Conc SOW Pest/PCBs	
Low/Med SOW Metals	
Low/Med SOW Cyanide 1891	
Low Conc SOW Metals	
Low Conc SOW Cyanide	
Other:	

Tag No. ~~144145~~ MB

Sampler(s) Signatures: M Butterworth

REGION I

DAS Case #	Station Location
0291F	SED-08
CLP Sample #	Contractor Sample #
	D00071
Sampling Month/Day/Year	Sampling Time
9/9/99	1020
Matrix: Sed	Designate: Comp. / Grab
Preservatives used: HCl / HNO_3 / other; Specify:	
Yes / No (Circle One)	ICE

ANALYSES	CHECK BOX THAT APPLIES TO THIS SAMPLE BOTTLE
Low/Med SOW VOA Organics	
Low/Med SOW Semi-VOA Organics	X
Low/Med SOW Pest/PCBs	
Low Conc SOW VOA Organics	
Low Conc SOW Semi-VOA Organics	
Low Conc SOW Pest/PCBs	
Low/Med SOW Metals	
Low/Med SOW Cyanide 1892	
Low Conc SOW Metals	
Low Conc SOW Cyanide	
Other:	

Tag No. ~~144146~~

Sampler(s) Signatures: M Butterworth

REGION I

DAS Case #	Station Location
029LF	SED-08
CLP Sample #	Contractor Sample #
	D00071
Sampling Month/Day/Year	Sampling Time
9/9/99	1020
Matrix: Sed	Designate: (Comp.) Grab
Preservatives used: HCl ; HNO_3 ; other; Specify	
Yes ; (No) (Circle One)	ICE

ANALYSES	CHECK BOX THAT APPLIES TO THIS SAMPLE BOTTLE
Low/Med SOW VOA Organics	X
Low/Med SOW Semi-VOA Organics	
Low/Med SOW Pest/PCBs	
Low Conc SOW VOA Organics	
Low Conc SOW Semi-VOA Organics	
Low Conc SOW Pest/PCBs	
Low/Med SOW Metals	
Low/Med SOW Cyanide 1887	
Low Conc SOW Metals	
Low Conc SOW Cyanide	
Other:	

Tag No. ~~144148~~

Sampler(s) Signatures: M Butterworth

REGION I

DAS Case #	Station Location
029LF	SED-08
CLP Sample #	Contractor Sample #
	D00071
Sampling Month/Day/Year	Sampling Time
9/9/99	1020
Matrix: Sed	Designate: (Comp.) Grab
Preservatives used: HCl ; HNO_3 ; other; Specify	
Yes ; (No) (Circle One)	ICE

ANALYSES	CHECK BOX THAT APPLIES TO THIS SAMPLE BOTTLE
Low/Med SOW VOA Organics	
Low/Med SOW Semi-VOA Organics	
Low/Med SOW Pest/PCBs	
Low Conc SOW VOA Organics	
Low Conc SOW Semi-VOA Organics	
Low Conc SOW Pest/PCBs	
Low/Med SOW Metals 1888	
Low/Med SOW Cyanide	
Low Conc SOW Metals	
Low Conc SOW Cyanide	
Other: TOC+AVS/SEM	X

Tag No. ~~144148~~

Sampler(s) Signatures: M Butterworth

REGION I

DAS Case #	Station Location
029LF	SED-08
CLP Sample #	Contractor Sample #
	D00071
Sampling Month/Day/Year	Sampling Time
9/9/99	1020
Matrix: Sed	Designate: (Comp.) Grab
Preservatives used: HCl ; HNO_3 ; other; Specify	
Yes ; (No) (Circle One)	ICE

ANALYSES	CHECK BOX THAT APPLIES TO THIS SAMPLE BOTTLE
Low/Med SOW VOA Organics	
Low/Med SOW Semi-VOA Organics	
Low/Med SOW Pest/PCBs	
Low Conc SOW VOA Organics	
Low Conc SOW Semi-VOA Organics	
Low Conc SOW Pest/PCBs	
Low/Med SOW Metals total	X
Low/Med SOW Cyanide 1889	X
Low Conc SOW Metals	
Low Conc SOW Cyanide	
Other:	

Tag No. ~~144148~~

Sampler(s) Signatures: M Butterworth

REGION I

Case #	Station Location
0291F	SED-07
CLP Sample #	Contractor Sample #
	D00070
Sampling Month/Day/Year	Sampling Time
9/9/99	0950
Matrix: Sed	Designate: Comp. / Grab
Preservatives used: HCl ; HNO_3 ; other; Specify:	
Yes ; No (Circle One)	ICE

ANALYSES	CHECK BOX THAT APPLIES TO THIS SAMPLE BOTTLE
Low/Med SOW VOA Organics	
Low/Med SOW Semi-VOA Organics	
Low/Med SOW Pest/PCBs	
Low Conc SOW VOA Organics	
Low Conc SOW Semi-VOA Organics	
Low Conc SOW Pest/PCBs	
Low/Med SOW Metals 1884	
Low/Med SOW Cyanide	
Low Conc SOW Metals	
Low Conc SOW Cyanide	
Other: TOC + AVS/SEM X	

Tag No. 144143

Sampler(s) Signatures: MButterworth

REGION I

#	Station Location
291F	SED-07
CLP Sample #	Contractor Sample #
	D00070
Sampling Month/Day/Year	Sampling Time
9/9/99	0950
Matrix: Sed.	Designate: Comp. / Grab
Preservatives used: HCl ; HNO_3 ; other; Specify:	
Yes ; No (Circle One)	ICE

ANALYSES	CHECK BOX THAT APPLIES TO THIS SAMPLE BOTTLE
Low/Med SOW VOA Organics	
Low/Med SOW Semi-VOA Organics	
Low/Med SOW Pest/PCBs	
Low Conc SOW VOA Organics	
Low Conc SOW Semi-VOA Organics	
Low Conc SOW Pest/PCBs	
Low/Med SOW Metals total	X
Low/Med SOW Cyanide 1885	
Low Conc SOW Metals	
Low Conc SOW Cyanide	
Other:	

Tag No. 144142

Sampler(s) Signatures: MButterworth

REGION I

Case #	Station Location
0291F	SED-07
CLP Sample #	Contractor Sample #
	D00070
Sampling Month/Day/Year	Sampling Time
9/9/99	0950
Matrix: Sed	Designate: Comp. / Grab
Preservatives used: HCl ; HNO_3 ; other; Specify:	
Yes ; No (Circle One)	ICE

ANALYSES	CHECK BOX THAT APPLIES TO THIS SAMPLE BOTTLE
Low/Med SOW VOA Organics	
Low/Med SOW Semi-VOA Organics	X
Low/Med SOW Pest/PCBs	
Low Conc SOW VOA Organics	
Low Conc SOW Semi-VOA Organics	
Low Conc SOW Pest/PCBs	
Low/Med SOW Metals	
Low/Med SOW Cyanide 1886	
Low Conc SOW Metals	
Low Conc SOW Cyanide	
Other:	

Tag No. 144140

Sampler(s) Signatures: MButterworth

REGION I

DAS Case #	Station Location
0291F	SED-07
CLP Sample #	Contractor Sample #
	D00070
Sampling Month/Day/Year	Sampling Time
9/9/99	0950
Matrix: Sed	Designate: Comp. / Grab
Preservatives used: HCl ; HNO_3 ; other; Specify:	
Yes ; No (Circle One)	ICE

ANALYSES	CHECK BOX THAT APPLIES TO THIS SAMPLE BOTTLE
Low/Med SOW VOA Organics	X
Low/Med SOW Semi-VOA Organics	
Low/Med SOW Pest/PCBs	
Low Conc SOW VOA Organics	
Low Conc SOW Semi-VOA Organics	
Low Conc SOW Pest/PCBs	
Low/Med SOW Metals	1881
Low/Med SOW Cyanide	
Low Conc SOW Metals	
Low Conc SOW Cyanide	
Other:	

Tag No. ~~144138~~

Sampler(s) Signatures: M Butterworth

REGION I

DAS Case #	Station Location
0291F	SED-07
CLP Sample #	Contractor Sample #
	D00070
Sampling Month/Day/Year	Sampling Time
9/9/99	0950
Matrix: Sed	Designate: Comp. / Grab
Preservatives used: HCl ; HNO_3 ; other; Specify:	
Yes ; No (Circle One)	ICE

ANALYSES	CHECK BOX THAT APPLIES TO THIS SAMPLE BOTTLE
Low/Med SOW VOA Organics	MS/MSD
Low/Med SOW Semi-VOA Organics	
Low/Med SOW Pest/PCBs	X
Low Conc SOW VOA Organics	
Low Conc SOW Semi-VOA Organics	
Low Conc SOW Pest/PCBs	
Low/Med SOW Metals	
Low/Med SOW Cyanide	1882
Low Conc SOW Metals	
Low Conc SOW Cyanide	
Other:	

Tag No. ~~144141~~

Sampler(s) Signatures: M Butterworth

REGION I

DAS Case #	Station Location
0291F	SED-07
CLP Sample #	Contractor Sample #
	D00070
Sampling Month/Day/Year	Sampling Time
9/9/99	0950
Matrix: Sed.	Designate: Comp. / Grab
Preservatives used: HCl ; HNO_3 ; other; Specify:	
Yes ; No (Circle One)	ICE

ANALYSES	CHECK BOX THAT APPLIES TO THIS SAMPLE BOTTLE
Low/Med SOW VOA Organics	X
Low/Med SOW Semi-VOA Organics	
Low/Med SOW Pest/PCBs	
Low Conc SOW VOA Organics	1883
Low Conc SOW Semi-VOA Organics	
Low Conc SOW Pest/PCBs	
Low/Med SOW Metals	
Low/Med SOW Cyanide	
Low Conc SOW Metals	
Low Conc SOW Cyanide	
Other:	

Tag No. ~~144138~~

Sampler(s) Signatures: M Butterworth

REGION I

DAS Case #	Station Location
0291F	SED-06
CLP Sample #	Contractor Sample #
	D00069
Sampling Month/Day/Year	Sampling Time
9/9/99	0915
Matrix: Sed.	Designate: Comp. / Grab
Preservatives used: HCl / HNO_3 / other; Specify	
Yes / No (Circle One)	ICE

ANALYSES	CHECK BOX THAT APPLIES TO THIS SAMPLE BOTTLE
Low/Med SOW VOA Organics	
Low/Med SOW Semi-VOA Organics	
Low/Med SOW Pest/PCBs	X
Low Conc SOW VOA Organics	
Low Conc SOW Semi-VOA Organics	
Low Conc SOW Pest/PCBs	
Low/Med SOW Metals 1878	
Low/Med SOW Cyanide	
Low Conc SOW Metals	
Low Conc SOW Cyanide	
Other:	

Tag No. 1441053

Sampler(s) Signatures: MBrittenworth

REGION I

DAS Case #	Station Location
0291F	SED-06
CLP Sample #	Contractor Sample #
	D00069
Sampling Month/Day/Year	Sampling Time
9/9/99	0915
Matrix: Sed.	Designate: Comp. / Grab
Preservatives used: HCl / HNO_3 / other; Specify	
Yes / No (Circle One)	ICE

ANALYSES	CHECK BOX THAT APPLIES TO THIS SAMPLE BOTTLE
Low/Med SOW VOA Organics	
Low/Med SOW Semi-VOA Organics	X
Low/Med SOW Pest/PCBs	
Low Conc SOW VOA Organics	
Low Conc SOW Semi-VOA Organics	
Low Conc SOW Pest/PCBs	
Low/Med SOW Metals 1873	
Low/Med SOW Cyanide	
Low Conc SOW Metals	
Low Conc SOW Cyanide	
Other:	

Tag No. 1441048

Sampler(s) Signatures: MBrittenworth

REGION I

DAS Case #	Station Location
0291F	SED-06
CLP Sample #	Contractor Sample #
	D00069
Sampling Month/Day/Year	Sampling Time
9/9/99	0915
Matrix: Sed	Designate: Comp. / Grab
Preservatives used: HCl / HNO_3 / other; Specify	
Yes / No (Circle One)	ICE

ANALYSES	CHECK BOX THAT APPLIES TO THIS SAMPLE BOTTLE
Low/Med SOW VOA Organics	
Low/Med SOW Semi-VOA Organics	
Low/Med SOW Pest/PCBs	
Low Conc SOW VOA Organics	
Low Conc SOW Semi-VOA Organics	
Low Conc SOW Pest/PCBs	
Low/Med SOW Metals total	X
Low/Med SOW Cyanide	X
Low Conc SOW Metals 1881	
Low Conc SOW Cyanide	
Other:	

Tag No. 1441026

Sampler(s) Signatures: MBrittenworth

REGION I

DAS Case #	Station Location
0291F	SED-06
CLP Sample #	Contractor Sample #
	D00069
Sampling Month/Day/Year	Sampling Time
9/9/99	0915
Matrix: Sed	Designate: Comp. / Grab
Preservatives used: HCl ; HNO_3 ; other; Specify	
Yes ; No (Circle One)	ICE

ANALYSES	CHECK BOX THAT APPLIES TO THIS SAMPLE BOTTLE
Low/Med SOW VOA Organics	X
Low/Med SOW Semi-VOA Organics	
Low/Med SOW Pest/PCBs	
Low Conc SOW VOA Organics	
Low Conc SOW Semi-VOA Organics	
Low Conc SOW Pest/PCBs	
Low/Med SOW Metals	
Low/Med SOW Cyanide	
Low Conc SOW Metals	
Low Conc SOW Cyanide	
Other:	

Tag No. ~~144123~~ 1875

Sampler(s) Signatures: M Buttemworth

REGION I

DAS Case #	Station Location
0291F	SED-06
CLP Sample #	Contractor Sample #
	D00069
Sampling Month/Day/Year	Sampling Time
9/9/99	0915
Matrix: Sed	Designate: Comp. / Grab
Preservatives used: HCl ; HNO_3 ; other; Specify	
Yes ; No (Circle One)	ICE

ANALYSES	CHECK BOX THAT APPLIES TO THIS SAMPLE BOTTLE
Low/Med SOW VOA Organics	
Low/Med SOW Semi-VOA Organics	
Low/Med SOW Pest/PCBs	
Low Conc SOW VOA Organics	
Low Conc SOW Semi-VOA Organics	
Low Conc SOW Pest/PCBs	
Low/Med SOW Metals	
Low/Med SOW Cyanide	
Low Conc SOW Metals	
Low Conc SOW Cyanide	
Other: TOC + AVS/SEM	X

Tag No. ~~144127~~ 1876

Sampler(s) Signatures: M Buttemworth

REGION I

DAS Case #	Station Location
0291F	SED-06
CLP Sample #	Contractor Sample #
	D00069
Sampling Month/Day/Year	Sampling Time
9/9/99	0915
Matrix: Sed.	Designate: Comp. / Grab
Preservatives used: HCl ; HNO_3 ; other; Specify	
Yes ; No (Circle One)	ICE

ANALYSES	CHECK BOX THAT APPLIES TO THIS SAMPLE BOTTLE
Low/Med SOW VOA Organics	X
Low/Med SOW Semi-VOA Organics	
Low/Med SOW Pest/PCBs	
Low Conc SOW VOA Organics	
Low Conc SOW Semi-VOA Organics	
Low Conc SOW Pest/PCBs	
Low/Med SOW Metals	
Low/Med SOW Cyanide	
Low Conc SOW Metals	
Low Conc SOW Cyanide	
Other:	

Tag No. ~~144124~~ 1877

Sampler(s) Signatures: M Buttemworth

REGION I

DAS Case #	Station Location
0291F	SED-05
CLP Sample #	Contractor Sample #
	D00068
Sampling Month/Day/Year	Sampling Time
9/9/99	0830
Matrix: Sed.	Designate: (Comp.) Grab
Preservatives used: HCl ; HNO_3 ; other; Specify:	
Yes ; (No) (Circle One)	ICE

ANALYSES	CHECK BOX THAT APPLIES TO THIS SAMPLE BOTTLE
Low/Med SOW VOA Organics	
Low/Med SOW Semi-VOA Organics	X
Low/Med SOW Pest/PCBs	
Low Conc SOW VOA Organics	
Low Conc SOW Semi-VOA Organics	
Low Conc SOW Pest/PCBs	
Low/Med SOW Metals	
Low/Med SOW Cyanide	
Low Conc SOW Metals	
Low Conc SOW Cyanide 1872	
Other:	

Tag No. ~~144181~~

Sampler(s) Signatures: MButterworth

REGION I

DAS Case #	Station Location
0291F	SED-05
CLP Sample #	Contractor Sample #
	D00068
Sampling Month/Day/Year	Sampling Time
9/9/99	0830
Matrix: Sed	Designate: (Comp.) Grab
Preservatives used: HCl ; HNO_3 ; other; Specify:	
Yes ; (No) (Circle One)	ICE

ANALYSES	CHECK BOX THAT APPLIES TO THIS SAMPLE BOTTLE
Low/Med SOW VOA Organics	X
Low/Med SOW Semi-VOA Organics	
Low/Med SOW Pest/PCBs	
Low Conc SOW VOA Organics	
Low Conc SOW Semi-VOA Organics	
Low Conc SOW Pest/PCBs	
Low/Med SOW Metals	
Low/Med SOW Cyanide	
Low Conc SOW Metals	
Low Conc SOW Cyanide 1873	
Other:	

Tag No. ~~144182~~

Sampler(s) Signatures: MButterworth

REGION I

DAS Case #	Station Location
0291F	SED-05
CLP Sample #	Contractor Sample #
	D00068
Sampling Month/Day/Year	Sampling Time
9/9/99	0830
Matrix: Sed	Designate: (Comp.) Grab
Preservatives used: HCl ; HNO_3 ; other; Specify:	
Yes ; (No) (Circle One)	ICE

ANALYSES	CHECK BOX THAT APPLIES TO THIS SAMPLE BOTTLE
Low/Med SOW VOA Organics	X
Low/Med SOW Semi-VOA Organics	
Low/Med SOW Pest/PCBs	
Low Conc SOW VOA Organics	
Low Conc SOW Semi-VOA Organics	
Low Conc SOW Pest/PCBs	
Low/Med SOW Metals	
Low/Med SOW Cyanide	
Low Conc SOW Metals	
Low Conc SOW Cyanide 1873	
Other:	

Tag No. ~~144183~~

Sampler(s) Signatures: MButterworth

REGION I

Case #	Station Location
0291F	SED-05
CLP Sample #	Contractor Sample #
	D00068
Sampling Month/Day/Year	Sampling Time
9/9/99	0830
Matrix: Sed.	Designate: Comp. / Grab
Preservatives used: HCl ; HNO_3 ; other; Specify:	
Yes / No (Circle One)	ICE

ANALYSES	CHECK BOX THAT APPLIES TO THIS SAMPLE BOTTLE
Low/Med SOW VOA Organics	
Low/Med SOW Semi-VOA Organics	
Low/Med SOW Pest/PCBs	
Low Conc SOW VOA Organics	
Low Conc SOW Semi-VOA Organics	
Low Conc SOW Pest/PCBs	
Low/Med SOW Metals	
Low/Med SOW Cyanide 1869	
Low Conc SOW Metals	
Low Conc SOW Cyanide	
Other: TOC + AVS/SEM	X

Tag No. 144131

Sampler(s) Signatures: M Butterworth

REGION I

Case #	Station Location
0291F	SED-05
CLP Sample #	Contractor Sample #
	D00068
Sampling Month/Day/Year	Sampling Time
9/9/99	0830
Matrix: Sed.	Designate: Comp. / Grab
Preservatives used: HCl ; HNO_3 ; other; Specify:	
Yes / No (Circle One)	ICE

ANALYSES	CHECK BOX THAT APPLIES TO THIS SAMPLE BOTTLE
Low/Med SOW VOA Organics	
Low/Med SOW Semi-VOA Organics	X
Low/Med SOW Pest/PCBs	
Low Conc SOW VOA Organics	
Low Conc SOW Semi-VOA Organics	
Low Conc SOW Pest/PCBs	
Low/Med SOW Metals	
Low/Med SOW Cyanide 1870	
Low Conc SOW Metals	
Low Conc SOW Cyanide	
Other:	

Tag No. 144125

Sampler(s) Signatures: M Butterworth

REGION I

Case #	Station Location
0291F	SED-05
CLP Sample #	Contractor Sample #
	D00068
Sampling Month/Day/Year	Sampling Time
9/9/99	0830
Matrix: Sed	Designate: Comp. / Grab
Preservatives used: HCl ; HNO_3 ; other; Specify:	
Yes / No (Circle One)	ICE

ANALYSES	CHECK BOX THAT APPLIES TO THIS SAMPLE BOTTLE
Low/Med SOW VOA Organics	
Low/Med SOW Semi-VOA Organics	
Low/Med SOW Pest/PCBs	
Low Conc SOW VOA Organics	
Low Conc SOW Semi-VOA Organics	
Low Conc SOW Pest/PCBs	
Low/Med SOW Metals	
Low/Med SOW Cyanide 1871	
Low Conc SOW Metals	
Low Conc SOW Cyanide	
Other: TOC + AVS/SEM	X

Tag No. 144122

Sampler(s) Signatures: M Butterworth

REGION I

DAS Case #	Station Location
0291F	SED-05
CLP Sample #	Contractor Sample #
	D00068
Sampling Month/Day/Year	Sampling Time
9/9/99	0830
Matrix: Sed.	Designate: (Comp.) Grab
Preservatives used: HCl ; HNO_3 ; other; Specify	
Yes ; (No) (Circle One)	ICE

ANALYSES	CHECK BOX THAT APPLIES TO THIS SAMPLE BOTTLE
Low/Med SOW VOA Organics	
Low/Med SOW Semi-VOA Organics	
Low/Med SOW Pest/PCBs	
Low Conc SOW VOA Organics	
Low Conc SOW Semi-VOA Organics	
Low Conc SOW Pest/PCBs	
Low/Med SOW Metals total	X
Low/Med SOW Cyanide	X
Low Conc SOW Metals	
Low Conc SOW Cyanide 1866	
Other:	

Tag No. ~~144128~~ MB

Sampler(s) Signatures: MBritterworth

REGION I

DAS Case #	Station Location
0291F	SED-05
CLP Sample #	Contractor Sample #
	D00068
Sampling Month/Day/Year	Sampling Time
9/9/99	0830
Matrix: Sed	Designate: (Comp.) Grab
Preservatives used: HCl ; HNO_3 ; other; Specify	
Yes ; (No) (Circle One)	ICE

ANALYSES	CHECK BOX THAT APPLIES TO THIS SAMPLE BOTTLE
Low/Med SOW VOA Organics	X
Low/Med SOW Semi-VOA Organics	
Low/Med SOW Pest/PCBs	
Low Conc SOW VOA Organics	
Low Conc SOW Semi-VOA Organics	
Low Conc SOW Pest/PCBs	
Low/Med SOW Metals	
Low/Med SOW Cyanide	
Low Conc SOW Metals	
Low Conc SOW Cyanide 1867	
Other:	

Tag No. ~~114113~~ MB

Sampler(s) Signatures: MBritterworth

REGION I

DAS Case #	Station Location
0291F	SED-05
CLP Sample #	Contractor Sample #
	D00068
Sampling Month/Day/Year	Sampling Time
9/9/99	0830
Matrix: Sed	Designate: (Comp.) Grab
Preservatives used: HCl ; HNO_3 ; other; Specify	
Yes ; (No) (Circle One)	ICE

ANALYSES	CHECK BOX THAT APPLIES TO THIS SAMPLE BOTTLE
Low/Med SOW VOA Organics	
Low/Med SOW Semi-VOA Organics	
Low/Med SOW Pest/PCBs	X
Low Conc SOW VOA Organics	
Low Conc SOW Semi-VOA Organics	
Low Conc SOW Pest/PCBs	
Low/Med SOW Metals	
Low/Med SOW Cyanide	
Low Conc SOW Metals	
Low Conc SOW Cyanide 1868	
Other:	

Tag No. ~~144127~~

Sampler(s) Signatures: MBritterworth

REGION I

DAS Case #	Station Location
0291F	SED-05
CLP Sample #	Contractor Sample #
	D00068
Sampling Month/Day/Year	Sampling Time
9/9/99	0830
Matrix: Sed.	Designate: Comp. / Grab
Preservatives used: HCl / HNO_3 / other; Specify	
Yes / No (Circle One)	ICE

ANALYSES	CHECK BOX THAT APPLIES TO THIS SAMPLE BOTTLE
Low/Med SOW VOA Organics	X
Low/Med SOW Semi-VOA Organics	
Low/Med SOW Pest/PCBs	
Low Conc SOW VOA Organics	
Low Conc SOW Semi-VOA Organics	
Low Conc SOW Pest/PCBs	
Low/Med SOW Metals	
Low/Med SOW Cyanide	1863
Low Conc SOW Metals	
Low Conc SOW Cyanide	
Other:	

Tag No. 144486

Sampler(s) Signatures: M Brittenworth

REGION I

DAS Case #	Station Location
0291F	SED-05
CLP Sample #	Contractor Sample #
	D00068
Sampling Month/Day/Year	Sampling Time
9/9/99	0830
Matrix: Sed	Designate: Comp / Grab
Preservatives used: HCl / HNO_3 / other; Specify	
Yes / No (Circle One)	ICE

ANALYSES	CHECK BOX THAT APPLIES TO THIS SAMPLE BOTTLE
Low/Med SOW VOA Organics	
Low/Med SOW Semi-VOA Organics	
Low/Med SOW Pest/PCBs	X
Low Conc SOW VOA Organics	
Low Conc SOW Semi-VOA Organics	
Low Conc SOW Pest/PCBs	
Low/Med SOW Metals	
Low/Med SOW Cyanide	1864
Low Conc SOW Metals	
Low Conc SOW Cyanide	
Other:	

Tag No. 144486

Sampler(s) Signatures: M Brittenworth

REGION I

DAS Case #	Station Location
0291F	SED-05
CLP Sample #	Contractor Sample #
	D00068
Sampling Month/Day/Year	Sampling Time
9/9/99	0830
Matrix: Sed	Designate: Comp. / Grab
Preservatives used: HCl / HNO_3 / other; Specify	
Yes / No (Circle One)	ICE

ANALYSES	CHECK BOX THAT APPLIES TO THIS SAMPLE BOTTLE
Low/Med SOW VOA Organics	
Low/Med SOW Semi-VOA Organics	X
Low/Med SOW Pest/PCBs	
Low Conc SOW VOA Organics	
Low Conc SOW Semi-VOA Organics	
Low Conc SOW Pest/PCBs	
Low/Med SOW Metals	
Low/Med SOW Cyanide	
Low Conc SOW Metals	
Low Conc SOW Cyanide	1865
Other:	

Tag No. 144484

Sampler(s) Signatures: M Brittenworth

REGION I

Case #	Station Location
0291F	SED-05
CLP Sample #	Contractor Sample #
	D00068
Sampling Month/Day/Year	Sampling Time
9/9/99	0830
Matrix: Sed	Designate: Comp. / Grab
Preservatives used: HCl ; HNO_3 ; other; Specify:	
Yes ; No (Circle One)	ICE

ANALYSES	CHECK BOX THAT APPLIES TO THIS SAMPLE BOTTLE
Low/Med SOW VOA Organics	
Low/Med SOW Semi-VOA Organics	
Low/Med SOW Pest/PCBs	
Low Conc SOW VOA Organics	
Low Conc SOW Semi-VOA Organics	
Low Conc SOW Pest/PCBs	
Low/Med SOW Metals total	X
Low/Med SOW Cyanide 1860	X
Low Conc SOW Metals	
Low Conc SOW Cyanide	
Other:	

Tag No. 14429

Sampler(s) Signatures: M Butterworth

REGION I

Case #	Station Location
0291F	SED-05
CLP Sample #	Contractor Sample #
	D00068
Sampling Month/Day/Year	Sampling Time
9/9/99	0830
Matrix: Sed.	Designate: Comp. / Grab
Preservatives used: HCl ; HNO_3 ; other; Specify:	
Yes ; No (Circle One)	ICE

ANALYSES	CHECK BOX THAT APPLIES TO THIS SAMPLE BOTTLE
Low/Med SOW VOA Organics	X
Low/Med SOW Semi-VOA Organics	
Low/Med SOW Pest/PCBs	
Low Conc SOW VOA Organics	
Low Conc SOW Semi-VOA Organics	
Low Conc SOW Pest/PCBs	
Low/Med SOW Metals	
Low/Med SOW Cyanide 1861	
Low Conc SOW Metals	
Low Conc SOW Cyanide	
Other:	

Tag No. 14428

Sampler(s) Signatures: M Butterworth

REGION I

Case #	Station Location
0291F	SED-05
CLP Sample #	Contractor Sample #
	D00068
Sampling Month/Day/Year	Sampling Time
9/9/99	0830
Matrix: Sed	Designate: Comp. / Grab
Preservatives used: HCl ; HNO_3 ; other; Specify:	
Yes ; No (Circle One)	ICE

ANALYSES	CHECK BOX THAT APPLIES TO THIS SAMPLE BOTTLE
Low/Med SOW VOA Organics	X
Low/Med SOW Semi-VOA Organics	
Low/Med SOW Pest/PCBs	X
Low Conc SOW VOA Organics	
Low Conc SOW Semi-VOA Organics	
Low Conc SOW Pest/PCBs	
Low/Med SOW Metals	
Low/Med SOW Cyanide 1862	
Low Conc SOW Metals	
Low Conc SOW Cyanide	
Other:	

Tag No. 14425

Sampler(s) Signatures: M Butterworth

REGION I

DAS Case #	Station Location
0291F	SW-08
CLP Sample #	Contractor Sample #
	D00067

Sampling Month/Day/Year	Sampling Time
9/9/99	1015

Matrix	Designate:	
Aq	Comp.	Grab

Preservatives used: HCl | HNO_3 | other; Specify:
Yes | No (Circle One) NaOH ph2 12

ANALYSES	CHECK BOX THAT APPLIES TO THIS SAMPLE BOTTLE
Low/Med SOW VOA Organics	
Low/Med SOW Semi-VOA Organics	
Low/Med SOW Pest/PCBs	
Low Conc SOW VOA Organics	
Low Conc SOW Semi-VOA Organics	
Low Conc SOW Pest/PCBs	
Low/Med SOW Metals	1857
Low/Med SOW Cyanide	X
Low Conc SOW Metals	
Low Conc SOW Cyanide	
Other:	

Tag No. ~~141186~~

Sampler(s) Signatures MBritteworth

REGION I

DAS Case #	Station Location
0291F	SED-05
CLP Sample #	Contractor Sample #
	D00068

Sampling Month/Day/Year	Sampling Time
9/9/99	0830

Matrix	Designate:	
Sed	Comp.	Grab

Preservatives used: HCl | HNO_3 | other; Specify:
Yes | No (Circle One) ICE

ANALYSES	CHECK BOX THAT APPLIES TO THIS SAMPLE BOTTLE
Low/Med SOW VOA Organics	X
Low/Med SOW Semi-VOA Organics	
Low/Med SOW Pest/PCBs	
Low Conc SOW VOA Organics	
Low Conc SOW Semi-VOA Organics	
Low Conc SOW Pest/PCBs	
Low/Med SOW Metals	1858
Low/Med SOW Cyanide	
Low Conc SOW Metals	
Low Conc SOW Cyanide	
Other:	

Tag No. ~~141186~~

Sampler(s) Signatures MBritteworth

REGION I

DAS Case #	Station Location
0291F	SED-05
CLP Sample #	Contractor Sample #
	D00068

Sampling Month/Day/Year	Sampling Time
9/9/99	0830

Matrix	Designate:	
Sed.	Comp.	Grab

Preservatives used: HCl | HNO_3 | other; Specify:
Yes | No (Circle One) ICE

ANALYSES	CHECK BOX THAT APPLIES TO THIS SAMPLE BOTTLE
Low/Med SOW VOA Organics	
Low/Med SOW Semi-VOA Organics	
Low/Med SOW Pest/PCBs	
Low Conc SOW VOA Organics	
Low Conc SOW Semi-VOA Organics	
Low Conc SOW Pest/PCBs	
Low/Med SOW Metals	total
Low/Med SOW Cyanide	X
Low Conc SOW Metals	X
Low Conc SOW Cyanide	
Other:	

Tag No. ~~141180~~

Sampler(s) Signatures MBritteworth

REGION I

DAS Case #	Station Location
0291F	SW-08
CLP Sample #	Contractor Sample #
	D00067
Sampling Month/Day/Year	Sampling Time
9/9/99	1015
Matrix: Aq.	Designate: Comp. / (Grab)
Preservatives used: HCl / HNO_3 / other: Specify	
Yes / (No) (Circle One)	ICE

ANALYSES	CHECK BOX THAT APPLIES TO THIS SAMPLE BOTTLE
Low/Med SOW VOA Organics	
Low/Med SOW Semi-VOA Organics	
Low/Med SOW Pest/PCBs	X
Low Conc SOW VOA Organics	
Low Conc SOW Semi-VOA Organics	
Low Conc SOW Pest/PCBs	
Low Med SOW Metals	1854
Low/Med SOW Cyanide	
Low Conc SOW Metals	
Low Conc SOW Cyanide	
Other:	

Tag No. 11103

Sampler(s) Signatures: MButtemer

REGION I

DAS Case #	Station Location
0291F	SW-08
CLP Sample #	Contractor Sample #
	D00067
Sampling Month/Day/Year	Sampling Time
9/9/99	1015
Matrix: Aq.	Designate: Comp. / (Grab)
Preservatives used: HCl / HNO_3 / other: Specify	
Yes / (No) (Circle One)	ICE

ANALYSES	CHECK BOX THAT APPLIES TO THIS SAMPLE BOTTLE
Low/Med SOW VOA Organics	
Low/Med SOW Semi-VOA Organics	X
Low/Med SOW Pest/PCBs	
Low Conc SOW VOA Organics	
Low Conc SOW Semi-VOA Organics	
Low Conc SOW Pest/PCBs	
Low/Med SOW Metals	1855
Low/Med SOW Cyanide	
Low Conc SOW Metals	
Low Conc SOW Cyanide	
Other:	

Tag No. 15

Sampler(s) Signatures: MButtemer

REGION I

DAS Case #	Station Location
0291F	SW-08
CLP Sample #	Contractor Sample #
	D00067
Sampling Month/Day/Year	Sampling Time
9/9/99	1015
Matrix: Aq.	Designate: Comp. / (Grab)
Preservatives used: HCl / (HNO3) / other: Specify	
Yes / (No) (Circle One)	pH<2

ANALYSES	CHECK BOX THAT APPLIES TO THIS SAMPLE BOTTLE
Low/Med SOW VOA Organics	
Low/Med SOW Semi-VOA Organics	
Low/Med SOW Pest/PCBs	
Low Conc SOW VOA Organics	
Low Conc SOW Semi-VOA Organics	
Low Conc SOW Pest/PCBs	
Low/Med SOW Metals	1856
Low/Med SOW Cyanide	X
Low Conc SOW Metals	
Low Conc SOW Cyanide	
Other:	

Tag No. 11105

Sampler(s) Signatures: MButtemer

REGION I

DBS

Case #	Station Location
0291F	SW-08
CLP Sample #	Contractor Sample #
	D00067
Sampling Month/Day/Year	Sampling Time
9/9/99	1015
Matrix: Aq	Designate: Comp. / Grab
Preservatives used: HCl ; HNO_3 ; other; Specify:	
Yes ; No (Circle One)	ICE

ANALYSES	CHECK BOX THAT APPLIES TO THIS SAMPLE BOTTLE
Low/Med SOW VOA Organics	
Low/Med SOW Semi-VOA Organics	
Low/Med SOW Pest/PCBs	X
Low Conc SOW VOA Organics	
Low Conc SOW Semi-VOA Organics	
Low Conc SOW Pest/PCBs	
Low/Med SOW Metals	
Low/Med SOW Cyanide	
Low Conc SOW Metals	
Low Conc SOW Cyanide	1853
Other:	

Tag No. ~~1111~~ MB

Sampler(s) Signatures: MButterworth

REGION I

DBS

Case #	Station Location
0291F	SW-08
CLP Sample #	Contractor Sample #
	D00067
Sampling Month/Day/Year	Sampling Time
9/9/99	1015
Matrix: Aq	Designate: Comp. / Grab
Preservatives used: HCl ; HNO_3 ; other; Specify:	
Yes ; No (Circle One)	pH<2

ANALYSES	CHECK BOX THAT APPLIES TO THIS SAMPLE BOTTLE
Low/Med SOW VOA Organics	
Low/Med SOW Semi-VOA Organics	X
Low/Med SOW Pest/PCBs	
Low Conc SOW VOA Organics	
Low Conc SOW Semi-VOA Organics	
Low Conc SOW Pest/PCBs	
Low/Med SOW Metals	
Low/Med SOW Cyanide	
Low Conc SOW Metals	
Low Conc SOW Cyanide	1851
Other:	

Tag No. ~~1111~~ MB

Sampler(s) Signatures: MButterworth

REGION I

DBS

Case #	Station Location
0291F	SW-08
CLP Sample #	Contractor Sample #
	D00067
Sampling Month/Day/Year	Sampling Time
9/9/99	1015
Matrix: Aq	Designate: Comp. / Grab
Preservatives used: HCl ; HNO_3 ; other; Specify:	
Yes ; No (Circle One)	ICE

ANALYSES	CHECK BOX THAT APPLIES TO THIS SAMPLE BOTTLE
Low/Med SOW VOA Organics	X
Low/Med SOW Semi-VOA Organics	
Low/Med SOW Pest/PCBs	
Low Conc SOW VOA Organics	
Low Conc SOW Semi-VOA Organics	
Low Conc SOW Pest/PCBs	
Low/Med SOW Metals	
Low/Med SOW Cyanide	
Low Conc SOW Metals	
Low Conc SOW Cyanide	1852
Other:	

Tag No. ~~1111~~ MB

Sampler(s) Signatures: MButterworth

REGION I

DAS Case #	Station Location
0291F	SW-07
CLP Sample #	Contractor Sample #
	D00066
Sampling Month/Day/Year	Sampling Time
9/9/99	1000
Matrix: Aq.	Designate: Comp. / (Grab)
Preservatives used: HCl ; HNO_3 ; other; Specify:	
Yes ; (No) (Circle One)	ICE

ANALYSES	CHECK BOX THAT APPLIES TO THIS SAMPLE BOTTLE
Low/Med SOW VOA Organics	
Low/Med SOW Semi-VOA Organics	X
Low/Med SOW Pest/PCBs	
Low Conc SOW VOA Organics	
Low Conc SOW Semi-VOA Organics	
Low Conc SOW Pest/PCBs	
Low/Med SOW Metals	
Low/Med SOW Cyanide	
Low Conc SOW Metals	
Low Conc SOW Cyanide	
Other:	

1848

Tag No. ~~177461~~

Sampler(s) Signatures: M Butterworth

REGION I

DAS Case #	Station Location
0291F	SW-08
CLP Sample #	Contractor Sample #
	D00067
Sampling Month/Day/Year	Sampling Time
9/9/99	1015
Matrix: Aq	Designate: Comp. / (Grab)
Preservatives used: (HCl) ; HNO_3 ; other; Specify:	
(Yes) ; No (Circle One)	pH<2

ANALYSES	CHECK BOX THAT APPLIES TO THIS SAMPLE BOTTLE
Low/Med SOW VOA Organics	X
Low/Med SOW Semi-VOA Organics	
Low/Med SOW Pest/PCBs	
Low Conc SOW VOA Organics	
Low Conc SOW Semi-VOA Organics	
Low Conc SOW Pest/PCBs	
Low/Med SOW Metals	
Low/Med SOW Cyanide	
Low Conc SOW Metals	
Low Conc SOW Cyanide	
Other:	

1849

Tag No. ~~177462~~

Sampler(s) Signatures: M Butterworth

REGION I

DAS Case #	Station Location
0291F	SW-08
CLP Sample #	Contractor Sample #
	D00067
Sampling Month/Day/Year	Sampling Time
9/9/99	1015
Matrix: Aq	Designate: Comp. / (Grab)
Preservatives used: (HCl) ; HNO_3 ; other; Specify:	
(Yes) ; No (Circle One)	pH<2

ANALYSES	CHECK BOX THAT APPLIES TO THIS SAMPLE BOTTLE
Low/Med SOW VOA Organics	X
Low/Med SOW Semi-VOA Organics	
Low/Med SOW Pest/PCBs	
Low Conc SOW VOA Organics	
Low Conc SOW Semi-VOA Organics	
Low Conc SOW Pest/PCBs	
Low/Med SOW Metals	
Low/Med SOW Cyanide	
Low Conc SOW Metals	
Low Conc SOW Cyanide	
Other:	

1850

Tag No. ~~177460~~

Sampler(s) Signatures: M Butterworth

REGION I

Case #	Station Location
0291F	SW-07
CLP Sample #	Contractor Sample #
	D00066

Sampling Month/Day/Year	Sampling Time
9/9/99	1000

Matrix: Aq

Designate: Comp. / Grab (Grab)

Preservatives used: HCl / ~~HNO_3~~ / other; Specify: NaOH ph>12

Yes / No (Circle One)

ANALYSES	CHECK BOX THAT APPLIES TO THIS SAMPLE BOTTLE
Low/Med SOW VOA Organics	
Low/Med SOW Semi-VOA Organics	
Low/Med SOW Pest/PCBs	
Low Conc SOW VOA Organics	
Low Conc SOW Semi-VOA Organics	
Low Conc SOW Pest/PCBs	
Low/Med SOW Metals	
Low/Med SOW Cyanide	
Low Conc SOW Metals 1345	
Low Conc SOW Cyanide	X
Other:	

Tag No. ~~177466~~ MB

Sampler(s) Signatures: M Brittenuth

REGION I

Case #	Station Location
0291F	SW-07
CLP Sample #	Contractor Sample #
	D00066

Sampling Month/Day/Year	Sampling Time
9/9/99	1000

Matrix: Aq.

Designate: Comp. / Grab (Grab)

Preservatives used: HCl / HNO_3 / other; Specify:

Yes / No (Circle One) ph < 2

ANALYSES	CHECK BOX THAT APPLIES TO THIS SAMPLE BOTTLE
Low/Med SOW VOA Organics	
Low/Med SOW Semi-VOA Organics	
Low/Med SOW Pest/PCBs	
Low Conc SOW VOA Organics	
Low Conc SOW Semi-VOA Organics	
Low Conc SOW Pest/PCBs	
Low/Med SOW Metals total	X
Low/Med SOW Cyanide	
Low Conc SOW Metals 1845	
Low Conc SOW Cyanide	
Other:	

Tag No. ~~177465~~

Sampler(s) Signatures: M Brittenuth

REGION I

Case #	Station Location
0291F	SW-07
CLP Sample #	Contractor Sample #
	D00066

Sampling Month/Day/Year	Sampling Time
9/9/99	1000

Matrix: Aq.

Designate: Comp. / Grab (Grab)

Preservatives used: HCl / HNO_3 / other; Specify: ICE

Yes / No (Circle One)

ANALYSES	CHECK BOX THAT APPLIES TO THIS SAMPLE BOTTLE
Low/Med SOW VOA Organics	
Low/Med SOW Semi-VOA Organics	X
Low/Med SOW Pest/PCBs	
Low/Med SOW VOA Organics	
Low Conc SOW Semi-VOA Organics	
Low Conc SOW Pest/PCBs	
Low Conc SOW Metals	
Low/Med SOW Cyanide	
Low/Med SOW Metals 1847	
Low Conc SOW Cyanide	
Other:	

Tag No. ~~177467~~

Sampler(s) Signatures: M Brittenuth

REGION I

Case #	Station Location
0291F	SW-07
CLP Sample #	Contractor Sample #
	D00066
Sampling Month/Day/Year	Sampling Time
9/9/99	1000
Matrix	Designate:
Ag.	Comp. / Grab
Preservatives used: HCl ; HNO_3 ; other; Specify:	
Yes ; No (Circle One)	ICE

ANALYSES	CHECK BOX THAT APPLIES TO THIS SAMPLE BOTTLE
Low/Med SOW VOA Organics	
Low/Med SOW Semi-VOA Organics	
Low/Med SOW Pest/PCBs	X
Low Conc SOW VOA Organics	
Low Conc SOW Semi-VOA Organics	
Low Conc SOW Pest/PCBs	
Low/Med SOW Metals	
Low/Med SOW Cyanide	1844
Low Conc SOW Metals	
Low Conc SOW Cyanide	
Other:	

Tag No. ~~177464~~

Sampler(s) Signatures

REGION I

Case #	Station Location
0291F	SW-07
CLP Sample #	Contractor Sample #
	D00066
Sampling Month/Day/Year	Sampling Time
9/9/99	1000
Matrix	Designate:
Ag.	Comp. / Grab
Preservatives used: HCl ; HNO_3 ; other; Specify:	
Yes ; No (Circle One)	pH<2

ANALYSES	CHECK BOX THAT APPLIES TO THIS SAMPLE BOTTLE
Low/Med SOW VOA Organics	
Low/Med SOW Semi-VOA Organics	
Low/Med SOW Pest/PCBs	X
Low Conc SOW VOA Organics	
Low Conc SOW Semi-VOA Organics	
Low Conc SOW Pest/PCBs	
Low/Med SOW Metals	
Low/Med SOW Cyanide	1842
Low Conc SOW Metals	
Low Conc SOW Cyanide	
Other:	

Tag No. ~~177459~~

Sampler(s) Signatures

REGION I

Case #	Station Location
0291F	SW-07
CLP Sample #	Contractor Sample #
	D00066
Sampling Month/Day/Year	Sampling Time
9/9/99	1000
Matrix	Designate:
Ag.	Comp. / Grab
Preservatives used: HCl ; HNO_3 ; other; Specify:	
Yes ; No (Circle One)	ICE

ANALYSES	CHECK BOX THAT APPLIES TO THIS SAMPLE BOTTLE
Low/Med SOW VOA Organics	
Low/Med SOW Semi-VOA Organics	
Low/Med SOW Pest/PCBs	X
Low Conc SOW VOA Organics	
Low Conc SOW Semi-VOA Organics	
Low Conc SOW Pest/PCBs	
Low/Med SOW Metals	
Low/Med SOW Cyanide	1843
Low Conc SOW Metals	
Low Conc SOW Cyanide	
Other:	

Tag No. ~~177462~~

Sampler(s) Signatures

REGION I

DHS Case #	Station Location
0291F	SW-06
CLP Sample #	Contractor Sample # D00065
Sampling Month/Day/Year	Sampling Time
9/9/99	0920
Matrix: Aq.	Designate: Comp. / (Grab)

Preservatives used: HCl ; HNO_3 ; other; Specify
Yes ; (No) (Circle One) ICE

ANALYSES	CHECK BOX THAT APPLIES TO THIS SAMPLE BOTTLE
Low/Med SOW VOA Organics	
Low/Med SOW Semi-VOA Organics	X
Low/Med SOW Pest/PCBs	
Low Conc SOW VOA Organics	
Low Conc SOW Semi-VOA Organics	
Low Conc SOW Pest/PCBs	
Low/Med SOW Metals	
Low/Med SOW Cyanide	
Low Conc SOW Metals	
Low Conc SOW Cyanide	
Other:	

1839

Tag No. ~~177444~~ MB

Sampler(s) Signatures: MButterworth

REGION I

DHS Case #	Station Location
0291F	SW-07
CLP Sample #	Contractor Sample # D00066
Sampling Month/Day/Year	Sampling Time
9/9/99	1000
Matrix: Aq.	Designate: Comp. / (Grab)

Preservatives used: (HCl); HNO_3 ; other; Specify
(Yes) ; No (Circle One) ph<2

ANALYSES	CHECK BOX THAT APPLIES TO THIS SAMPLE BOTTLE
Low/Med SOW VOA Organics	X
Low/Med SOW Semi-VOA Organics	
Low/Med SOW Pest/PCBs	
Low Conc SOW VOA Organics	
Low Conc SOW Semi-VOA Organics	
Low Conc SOW Pest/PCBs	
Low/Med SOW Metals	
Low/Med SOW Cyanide	
Low Conc SOW Metals	
Low Conc SOW Cyanide	
Other:	

1840

Tag No. ~~177458~~ MB

Sampler(s) Signatures: MButterworth

REGION I

DHS Case #	Station Location
0291F	SW-07
CLP Sample #	Contractor Sample # D00066
Sampling Month/Day/Year	Sampling Time
9/9/99	1000
Matrix: Aq.	Designate: Comp. / (Grab)

Preservatives used: (HCl); HNO_3 ; other; Specify
(Yes) ; No (Circle One) ph<2

ANALYSES	CHECK BOX THAT APPLIES TO THIS SAMPLE BOTTLE
Low/Med SOW VOA Organics	X
Low/Med SOW Semi-VOA Organics	
Low/Med SOW Pest/PCBs	
Low Conc SOW VOA Organics	
Low Conc SOW Semi-VOA Organics	
Low Conc SOW Pest/PCBs	
Low/Med SOW Metals	
Low/Med SOW Cyanide	
Low Conc SOW Metals	
Low Conc SOW Cyanide	
Other:	

1841

Tag No. ~~177459~~

Sampler(s) Signatures: MButterworth

REGION I

DAS Case # 0291F

Station Location: SW-06

CLP Sample #:

Contractor Sample #: D00065

Sampling Month/Day/Year: 9/9/99

Sampling Time: 0920

Matrix: Aq

Designate: Comp. / Grab (Grab circled)

Preservatives used: HCl ; HNO_3 ; other; Specify

Yes ; No (Circle One) (No circled): ICE

ANALYSES	CHECK BOX THAT APPLIES TO THIS SAMPLE BOTTLE
Low/Med SOW VOA Organics	
Low/Med SOW Semi-VOA Organics	X
Low/Med SOW Pest/PCBs	
Low Conc SOW VOA Organics	
Low Conc SOW Semi-VOA Organics	
Low Conc SOW Pest/PCBs	
Low/Med SOW Metals	
Low/Med SOW Cyanide 1836	
Low Conc SOW Metals	
Low Conc SOW Cyanide	
Other:	

Tag No. ~~177443~~ MB

Sampler(s) Signatures: MButterworth

REGION I

DAS Case # 0291F

Station Location: SW-06

CLP Sample #:

Contractor Sample #: D00065

Sampling Month/Day/Year: 9/9/99

Sampling Time: ~~1800~~ 0920

Matrix: Aq.

Designate: Comp. / Grab (Grab circled)

Preservatives used: HCl ; HNO_3 ; other; Specify

Yes ; No (Circle One) (Yes circled): NaOH ph>12

ANALYSES	CHECK BOX THAT APPLIES TO THIS SAMPLE BOTTLE
Low/Med SOW VOA Organics	
Low/Med SOW Semi-VOA Organics	
Low/Med SOW Pest/PCBs	
Low Conc SOW VOA Organics	
Low Conc SOW Semi-VOA Organics	
Low Conc SOW Pest/PCBs 1337	
Low/Med SOW Metals	
Low/Med SOW Cyanide	X
Low Conc SOW Metals	
Low Conc SOW Cyanide	
Other:	

Tag No. ~~177448~~ MB

Sampler(s) Signatures: MButterworth

REGION I

DAS Case # 0291F

Station Location: SW-06

CLP Sample #:

Contractor Sample #: D00065

Sampling Month/Day/Year: 9/9/99

Sampling Time: 0920

Matrix: Aq

Designate: Comp. / Grab (Grab circled)

Preservatives used: HCl ; HNO_3 ; other; Specify

Yes ; No (Circle One) (Yes circled): ph<2

ANALYSES	CHECK BOX THAT APPLIES TO THIS SAMPLE BOTTLE
Low/Med SOW VOA Organics	
Low/Med SOW Semi-VOA Organics	
Low/Med SOW Pest/PCBs 1838	
Low Conc SOW VOA Organics	
Low Conc SOW Semi-VOA Organics	
Low Conc SOW Pest/PCBs	
Low/Med SOW Metals total	X
Low/Med SOW Cyanide	
Low Conc SOW Metals	
Low Conc SOW Cyanide	
Other:	

Tag No. ~~177447~~ MB

Sampler(s) Signatures: MButterworth

REGION I

DAS Case #	Station Location
0291F	SW-06
CLP Sample #	Contractor Sample #
	D00065
Sampling Month/Day/Year	Sampling Time
9/9/99	0920
Matrix: Aq	Designate: Comp. / (Grab)
Preservatives used: (HCl); HNO_3; other; Specify	
(Yes); No (Circle One)	ph<2

ANALYSES	CHECK BOX THAT APPLIES TO THIS SAMPLE BOTTLE
Low/Med SOW VOA Organics	X
Low/Med SOW Semi-VOA Organics	
Low/Med SOW Pest/PCBs	
Low Conc SOW VOA Organics	
Low Conc SOW Semi-VOA Organics	
Low Conc SOW Pest/PCBs	
Low/Med SOW Metals	
Low/Med SOW Cyanide	
Low Conc SOW Metals	
Low Conc SOW Cyanide 1833	
Other:	

Tag No. ~~177442~~

Sampler(s) Signatures: MButterworth

REGION I

DAS Case #	Station Location
0291F	SW-06
CLP Sample #	Contractor Sample #
	D00065
Sampling Month/Day/Year	Sampling Time
9/9/99	0920
Matrix: Aq	Designate: Comp. / (Grab)
Preservatives used: (HCl); HNO_3; other; Specify	
(Yes); No (Circle One)	ph<2

ANALYSES	CHECK BOX THAT APPLIES TO THIS SAMPLE BOTTLE
Low/Med SOW VOA Organics	X
Low/Med SOW Semi-VOA Organics	
Low/Med SOW Pest/PCBs	
Low Conc SOW VOA Organics	
Low Conc SOW Semi-VOA Organics	
Low Conc SOW Pest/PCBs	
Low/Med SOW Metals	
Low/Med SOW Cyanide 1834	
Low Conc SOW Metals	
Low Conc SOW Cyanide	
Other:	

Tag No. ~~177440~~

Sampler(s) Signatures: MButterworth

DAS Case #	Station Location
0291F	SW-06
CLP Sample #	Contractor Sample #
	D00065
Sampling Month/Day/Year	Sampling Time
9/9/99	0920
Matrix: Aq.	Designate: Comp. / (Grab)
Preservatives used: (HCl); HNO_3; other; Specify	
Yes; (No) (Circle One)	ICE

ANALYSES	CHECK BOX THAT APPLIES TO THIS SAMPLE BOTTLE
Low/Med SOW VOA Organics	
Low/Med SOW Semi-VOA Organics	
Low/Med SOW Pest/PCBs	X
Low Conc SOW VOA Organics	
Low Conc SOW Semi-VOA Organics	
Low Conc SOW Pest/PCBs	
Low/Med SOW Metals	
Low/Med SOW Cyanide 1835	
Low Conc SOW Metals	
Low Conc SOW Cyanide	
Other:	

Tag No. ~~177446~~

Sampler(s) Signatures: MButterworth

REGION I

DAS Case #	Station Location
0291F	SW-05
CLP Sample #	Contractor Sample #
	D00064
Sampling Month/Day/Year	Sampling Time
9/9/99	0845
Matrix: Aq	Designate: Comp. / Grab (Grab)
Preservatives used: HCl / HNO_3 / other; Specify:	
Yes / No (Circle One) No	ICE

ANALYSES	CHECK BOX THAT APPLIES TO THIS SAMPLE BOTTLE
Low/Med SOW VOA Organics	
Low/Med SOW Semi-VOA Organics	
Low/Med SOW Pest/PCBs	X
Low Conc SOW VOA Organics	
Low Conc SOW Semi-VOA Organics	
Low Conc SOW Pest/PCBs	
Low/Med SOW Metals	
Low/Med SOW Cyanide	
Low Conc SOW Metals	
Low Conc SOW Cyanide	
Other: 1830	

Tag No. ~~17~~ 1832

Sampler(s) Signatures: MButtemworth

REGION I

DAS Case #	Station Location
0291F	SW-06
CLP Sample #	Contractor Sample #
	D00065
Sampling Month/Day/Year	Sampling Time
9/9/99	0920
Matrix: Aq.	Designate: Comp. / Grab (Grab)
Preservatives used: HCl / HNO_3 / other; Specify:	
Yes / No (Circle One) No	ICE

ANALYSES	CHECK BOX THAT APPLIES TO THIS SAMPLE BOTTLE
Low/Med SOW VOA Organics	
Low/Med SOW Semi-VOA Organics	
Low/Med SOW Pest/PCBs	X
Low Conc SOW VOA Organics	
Low Conc SOW Semi-VOA Organics	
Low Conc SOW Pest/PCBs	
Low/Med SOW Metals 1831	
Low/Med SOW Cyanide	
Low Conc SOW Metals	
Low Conc SOW Cyanide	
Other:	

Tag No. ~~17~~ 1845

Sampler(s) Signatures: MButtemworth

REGION I

DAS Case #	Station Location
0291F	SW-06
CLP Sample #	Contractor Sample #
	D00065
Sampling Month/Day/Year	Sampling Time
9/9/99	0920
Matrix: Aq	Designate: Comp. / Grab (Grab)
Preservatives used: HCl / HNO_3 / other; Specify:	
Yes / No (Circle One) No	pH<2

ANALYSES	CHECK BOX THAT APPLIES TO THIS SAMPLE BOTTLE
Low/Med SOW VOA Organics	X
Low/Med SOW Semi-VOA Organics	
Low/Med SOW Pest/PCBs	
Low Conc SOW VOA Organics	
Low Conc SOW Semi-VOA Organics	
Low Conc SOW Pest/PCBs	
Low/Med SOW Metals	
Low/Med SOW Cyanide 1832	
Low Conc SOW Metals	
Low Conc SOW Cyanide	
Other:	

Tag No. ~~17~~ 1847

Sampler(s) Signatures: MButtemworth

REGION I

DAS Case # 0291F
Station Location SW-05
CLP Sample #
Contractor Sample # D00064
Sampling Month/Day/Year 9/9/99
Sampling Time 0845
Matrix Aq.
Designate: Comp. Grab
Preservatives used: HCl; HNO_3; other; Specify: ph<2
(Yes) No (Circle One)

ANALYSES	CHECK BOX THAT APPLIES TO THIS SAMPLE BOTTLE
Low/Med SOW VOA Organics	X
Low/Med SOW Semi-VOA Organics	
Low/Med SOW Pest/PCBs	
Low Conc SOW VOA Organics	
Low Conc SOW Semi-VOA Organics	
Low Conc SOW Pest/PCBs	
Low/Med SOW Metals	1827
Low/Med SOW Cyanide	
Low Conc SOW Metals	
Low Conc SOW Cyanide	
Other:	

Tag No. 157345
Sampler(s) Signatures M Butterworth
REGION I

DAS Case # 0291F
Station Location SW-05
CLP Sample #
Contractor Sample # D00064
Sampling Month/Day/Year 9/9/99
Sampling Time 0845
Matrix Aq.
Designate: Comp. Grab
Preservatives used: HCl; HNO_3; other; Specify: ph<2
(Yes) No (Circle One)

ANALYSES	CHECK BOX THAT APPLIES TO THIS SAMPLE BOTTLE
Low/Med SOW VOA Organics	X
Low/Med SOW Semi-VOA Organics	
Low/Med SOW Pest/PCBs	
Low Conc SOW VOA Organics	
Low Conc SOW Semi-VOA Organics	
Low Conc SOW Pest/PCBs	
Low/Med SOW Metals	
Low/Med SOW Cyanide	
Low Conc SOW Metals	1828
Low Conc SOW Cyanide	
Other:	

Tag No. 157344
Sampler(s) Signatures M Butterworth
REGION I

DAS Case # 0291F
Station Location SW-05
CLP Sample # 0291F
Contractor Sample # D00064
Sampling Month/Day/Year 9/9/99
Sampling Time 0845
Matrix Aq.
Designate: Comp. Grab
Preservatives used: HCl; HNO_3; other; Specify: ph<2
(Yes) No (Circle One)

ANALYSES	CHECK BOX THAT APPLIES TO THIS SAMPLE BOTTLE
Low/Med SOW VOA Organics	
Low/Med SOW Semi-VOA Organics	
Low/Med SOW Pest/PCBs	
Low Conc SOW VOA Organics	
Low Conc SOW Semi-VOA Organics	
Low Conc SOW Pest/PCBs	
Low/Med SOW Metals	
Low/Med SOW Cyanide	
Low Conc SOW Metals	
Low Conc SOW Cyanide	
Other:	

Tag No. 157332
Sampler(s) Signatures M Butterworth
REGION I

DAS Case # 0291F
Station Location SW-05
CLP Sample # 0291F
Contractor Sample # D00064
Sampling Month/Day/Year 9/9/99
Sampling Time 0845
Matrix Aq.
Designate: Comp. Grab
Preservatives used: HCl; HNO_3; other; Specify: ph<2
(Yes) No (Circle One)

ANALYSES	CHECK BOX THAT APPLIES TO THIS SAMPLE BOTTLE
Low/Med SOW VOA Organics	X
Low/Med SOW Semi-VOA Organics	
Low/Med SOW Pest/PCBs	
Low Conc SOW VOA Organics	
Low Conc SOW Semi-VOA Organics	
Low Conc SOW Pest/PCBs	
Low/Med SOW Metals	
Low/Med SOW Cyanide	
Low Conc SOW Metals	1829
Low Conc SOW Cyanide	
Other:	

Tag No. 157331
Sampler(s) Signatures M Butterworth
REGION I

Case #	Station Location
0291F	SW-05
CLP Sample #	Contractor Sample #
	D00064
Sampling Month/Day/Year	Sampling Time
9/9/99	0845
Matrix: Aq.	Designate: Comp. / Grab
Preservatives used: HCl; HNO_3; other; Specify:	
Yes / No (Circle One)	pH<2

ANALYSES	CHECK BOX THAT APPLIES TO THIS SAMPLE BOTTLE
Low/Med SOW VOA Organics	X
Low/Med SOW Semi-VOA Organics	
Low/Med SOW Pest/PCBs	
Low Conc SOW VOA Organics	
Low Conc SOW Semi-VOA Organics	
Low Conc SOW Pest/PCBs	
Low/Med SOW Metals	
Low/Med SOW Cyanide	
Low Conc SOW Metals	1824
Low Conc SOW Cyanide	
Other:	

Tag No. ~~157022~~

Sampler(s) Signatures: MButterworth

REGION I

Case #	Station Location
0291F	SW-05
CLP Sample #	Contractor Sample #
	D00064
Sampling Month/Day/Year	Sampling Time
9/9/99	0845
Matrix: Aq.	Designate: Comp. / Grab
Preservatives used: HCl; HNO_3; other; Specify:	
Yes / No (Circle One)	pH<2

ANALYSES	CHECK BOX THAT APPLIES TO THIS SAMPLE BOTTLE
Low/Med SOW VOA Organics	X
Low/Med SOW Semi-VOA Organics	
Low/Med SOW Pest/PCBs	
Low Conc SOW VOA Organics	
Low Conc SOW Semi-VOA Organics	
Low Conc SOW Pest/PCBs	
Low/Med SOW Metals	
Low/Med SOW Cyanide	
Low Conc SOW Metals	
Low Conc SOW Cyanide	1825
Other:	

Tag No. ~~157023~~

Sampler(s) Signatures: MButterworth

REGION I

Case #	Station Location
0291F	SW-05
CLP Sample #	Contractor Sample #
	D00064
Sampling Month/Day/Year	Sampling Time
9/9/99	0845
Matrix: Aq.	Designate: Comp. / Grab
Preservatives used: HCl; HNO_3; other; Specify:	
Yes / No (Circle One)	pH<2

ANALYSES	CHECK BOX THAT APPLIES TO THIS SAMPLE BOTTLE
Low/Med SOW VOA Organics	X
Low/Med SOW Semi-VOA Organics	
Low/Med SOW Pest/PCBs	
Low Conc SOW VOA Organics	
Low Conc SOW Semi-VOA Organics	
Low Conc SOW Pest/PCBs	
Low/Med SOW Metals	
Low/Med SOW Cyanide	
Low Conc SOW Metals	1826
Low Conc SOW Cyanide	
Other:	

Tag No. ~~157024~~

Sampler(s) Signatures: MButterworth

REGION I

DAS Case #	Station Location
0291F	SW-05
CLP Sample #	Contractor Sample #
	D00064
Sampling Month/Day/Year	Sampling Time
9/9/99	0845
Matrix: Aq.	Designate: Comp. / Grab
Preservatives used: HCl, HNO_3; other; Specify:	
Yes / No (Circle One)	ph<2

ANALYSES	CHECK BOX THAT APPLIES TO THIS SAMPLE BOTTLE
Low/Med SOW VOA Organics	X
Low/Med SOW Semi-VOA Organics	
Low/Med SOW Pest/PCBs	
Low Conc SOW VOA Organics	
Low Conc SOW Semi-VOA Organics	
Low Conc SOW Pest/PCBs	
Low/Med SOW Metals	
Low/Med SOW Cyanide	
Low Conc SOW Metals 1821	
Low Conc SOW Cyanide	
Other:	

Tag No. 157328

Sampler(s) Signatures: MButterworth

REGION I

DAS Case #	Station Location
0291F	SW-05
CLP Sample #	Contractor Sample #
	D00064
Sampling Month/Day/Year	Sampling Time
9/9/99	0845
Matrix: Aq.	Designate: Comp. / Grab
Preservatives used: HCl, HNO_3; other; Specify:	
Yes / No (Circle One)	ph<2

ANALYSES	CHECK BOX THAT APPLIES TO THIS SAMPLE BOTTLE
Low/Med SOW VOA Organics	X
Low/Med SOW Semi-VOA Organics	
Low/Med SOW Pest/PCBs	
Low Conc SOW VOA Organics	
Low Conc SOW Semi-VOA Organics	
Low Conc SOW Pest/PCBs	
Low/Med SOW Metals 1822	
Low/Med SOW Cyanide	
Low Conc SOW Metals	
Low Conc SOW Cyanide	
Other:	

Tag No. 157316

Sampler(s) Signatures: MButterworth

REGION I

DAS Case #	Station Location
0291F	SW-05
CLP Sample #	Contractor Sample #
	D00064
Sampling Month/Day/Year	Sampling Time
9/9/99	0845
Matrix: Aq.	Designate: Comp. / Grab
Preservatives used: HCl, HNO_3; other; Specify:	
Yes / No (Circle One)	ph<2

ANALYSES	CHECK BOX THAT APPLIES TO THIS SAMPLE BOTTLE
Low/Med SOW VOA Organics	X
Low/Med SOW Semi-VOA Organics	
Low/Med SOW Pest/PCBs	
Low Conc SOW VOA Organics	
Low Conc SOW Semi-VOA Organics	
Low Conc SOW Pest/PCBs	
Low/Med SOW Metals	
Low/Med SOW Cyanide 1823	
Low Conc SOW Metals	
Low Conc SOW Cyanide	
Other:	

Tag No. 157318

Sampler(s) Signatures: MButterworth

REGION I

DAS Case # 0291F

Station Location: SW-05

CLP Sample #:

Contractor Sample #: D00064

Sampling Month/Day/Year: 9/9/99

Sampling Time: 0845

Matrix: Ag

Designate: Comp. / Grab (Grab)

Preservatives used: HCl | HNO_3 | other: Specify

Yes / No (Circle One): No

ICE

ANALYSES	CHECK BOX THAT APPLIES TO THIS SAMPLE BOTTLE
Low/Med SOW VOA Organics	
Low/Med SOW Semi-VOA Organics	X
Low/Med SOW Pest/PCBs	
Low Conc SOW VOA Organics	
Low Conc SOW Semi-VOA Organics	
Low Conc SOW Pest/PCBs	
Low/Med SOW Metals	
Low/Med SOW Cyanide	
Low Conc SOW Metals 1818	
Low Conc SOW Cyanide	
Other:	

Tag No. ~~157338~~ 1818

Sampler(s) Signatures: MPutterworth

REGION I

DAS Case # 0291F

Station Location: SW-05

CLP Sample #:

Contractor Sample #: D00064

Sampling Month/Day/Year: 9/9/99

Sampling Time: 0845

Matrix: Ag

Designate: Comp. / Grab (Grab)

Preservatives used: HCl | HNO_3 | other: Specify

Yes / No (Circle One): Yes

NaOH ph>12

ANALYSES	CHECK BOX THAT APPLIES TO THIS SAMPLE BOTTLE
Low/Med SOW VOA Organics	
Low/Med SOW Semi-VOA Organics	
Low/Med SOW Pest/PCBs	
Low Conc SOW VOA Organics	
Low Conc SOW Semi-VOA Organics	
Low Conc SOW Pest/PCBs	
Low/Med SOW Metals	
Low/Med SOW Cyanide 1819	X
Low Conc SOW Metals	
Low Conc SOW Cyanide	
Other:	

Tag No. ~~157338~~ 1818

Sampler(s) Signatures: MPutterworth

REGION I

DAS Case # 0291F

Station Location: SW-05

CLP Sample #:

Contractor Sample #: D00064

Sampling Month/Day/Year: 9/9/99

Sampling Time: 0845

Matrix: Ag

Designate: Comp. / Grab (Grab)

Preservatives used: HCl | HNO_3 | other: Specify

Yes / No (Circle One): No

ph<2

ANALYSES	CHECK BOX THAT APPLIES TO THIS SAMPLE BOTTLE
Low/Med SOW VOA Organics	
Low/Med SOW Semi-VOA Organics	
Low/Med SOW Pest/PCBs	
Low Conc SOW VOA Organics	
Low Conc SOW Semi-VOA Organics	
Low Conc SOW Pest/PCBs	
Low/Med SOW Metals Total	X
Low/Med SOW Cyanide 1820	
Low Conc SOW Metals	
Low Conc SOW Cyanide	
Other:	

Tag No. ~~157338~~ 1818

Sampler(s) Signatures: MPutterworth

REGION I

DAS Case #	Station Location
0291F	SW-05
CLP Sample #	Contractor Sample #
	D00064
Sampling Month/Day/Year	Sampling Time
9/9/99	0845
Matrix: Ag.	Designate: Comp. / Grab
Preservatives used: HCl ; HNO_3 ; other: Specify: ICE	Yes ; No (Circle One)

ANALYSES	CHECK BOX THAT APPLIES TO THIS SAMPLE BOTTLE
Low/Med SOW VOA Organics	
Low/Med SOW Semi-VOA Organics	X
Low/Med SOW Pest/PCBs	
Low Conc SOW VOA Organics	
Low Conc SOW Semi-VOA Organics	
Low Conc SOW Pest/PCBs	
Low/Med SOW Metals	
Low/Med SOW Cyanide	1817
Low Conc SOW Metals	
Low Conc SOW Cyanide	
Other:	

Tag No. ~~157~~

Sampler(s) Signatures: MBrittenworth

REGION I

DAS Case #	Station Location
0291F	SW-05
CLP Sample #	Contractor Sample #
	D00064
Sampling Month/Day/Year	Sampling Time
9/9/99	0845
Matrix: Ag	Designate: Comp. / Grab
Preservatives used: HCl ; HNO_3 ; other: Specify: ICE	Yes ; No (Circle One)

ANALYSES	CHECK BOX THAT APPLIES TO THIS SAMPLE BOTTLE
Low/Med SOW VOA Organics	
Low/Med SOW Semi-VOA Organics	
Low/Med SOW Pest/PCBs	X
Low Conc SOW VOA Organics	
Low Conc SOW Semi-VOA Organics	
Low Conc SOW Pest/PCBs	
Low/Med SOW Metals	
Low/Med SOW Cyanide	1815
Low Conc SOW Metals	
Low Conc SOW Cyanide	
Other:	

Tag No. 1771~~24~~

Sampler(s) Signatures: MBrittenworth

REGION I

DAS Case #	Station Location
0291F	SW05
CLP Sample #	Contractor Sample #
	D00064
Sampling Month/Day/Year	Sampling Time
9/9/99	0845
Matrix: Ag.	Designate: Comp. / Grab
Preservatives used: HCl ; HNO_3 ; other: Specify: ICE	Yes ; No (Circle One)

ANALYSES	CHECK BOX THAT APPLIES TO THIS SAMPLE BOTTLE
Low/Med SOW VOA Organics	
Low/Med SOW Semi-VOA Organics	
Low/Med SOW Pest/PCBs	X
Low Conc SOW VOA Organics	
Low Conc SOW Semi-VOA Organics	
Low Conc SOW Pest/PCBs	
Low/Med SOW Metals	
Low/Med SOW Cyanide	1816
Low Conc SOW Metals	
Low Conc SOW Cyanide	
Other:	

Tag No. 1771~~28~~

Sampler(s) Signatures: MBrittenworth

REGION I

Case #	Station Location
0291F	SW-05
CLP Sample #	Contractor Sample #
	D00064
Sampling Month/Day/Year	Sampling Time
9/9/99	0845
Matrix: Ag	Designate: Comp. / Grab (Grab)
Preservatives used: HCl ; HNO_3 ; other; Specify	
Yes ; No (Circle One)	ICE

ANALYSES	CHECK BOX THAT APPLIES TO THIS SAMPLE BOTTLE
Low/Med SOW VOA Organics	
Low/Med SOW Semi-VOA Organics	X
Low/Med SOW Pest/PCBs	
Low Conc SOW VOA Organics	
Low Conc SOW Semi-VOA Organics	
Low Conc SOW Pest/PCBs	
Low/Med SOW Metals	
Low/Med SOW Cyanide	1812
Low Conc SOW Metals	
Low Conc SOW Cyanide	
Other:	

Tag No. ~~157286~~

Sampler(s) Signatures: MButterworth

REGION I

Case #	Station Location
0291F	SW-05
CLP Sample #	Contractor Sample #
	D00064
Sampling Month/Day/Year	Sampling Time
9/9/99	0845
Matrix: Ag	Designate: Comp. / Grab (Grab)
Preservatives used: HCl ; HNO_3 ; other; Specify	
Yes ; No (Circle One)	NaOH ph>12

ANALYSES	CHECK BOX THAT APPLIES TO THIS SAMPLE BOTTLE
Low/Med SOW VOA Organics	
Low/Med SOW Semi-VOA Organics	
Low/Med SOW Pest/PCBs	
Low Conc SOW VOA Organics	
Low Conc SOW Semi-VOA Organics	
Low Conc SOW Pest/PCBs	
Low/Med SOW Metals	
Low/Med SOW Cyanide	X
Low Conc SOW Metals	1813
Low Conc SOW Cyanide	
Other:	

Tag No. ~~177188~~

Sampler(s) Signatures: MButterworth

REGION I

Case #	Station Location
0291F	SW-05
CLP Sample #	Contractor Sample #
	D00064
Sampling Month/Day/Year	Sampling Time
9/9/99	0845
Matrix: Ag	Designate: Comp. / Grab (Grab)
Preservatives used: HCl ; HNO_3 ; other; Specify	
Yes ; No (Circle One)	ICE

ANALYSES	CHECK BOX THAT APPLIES TO THIS SAMPLE BOTTLE
Low/Med SOW VOA Organics	
Low/Med SOW Semi-VOA Organics	X
Low/Med SOW Pest/PCBs	
Low Conc SOW VOA Organics	
Low Conc SOW Semi-VOA Organics	
Low Conc SOW Pest/PCBs	
Low/Med SOW Metals	
Low/Med SOW Cyanide	
Low Conc SOW Metals	
Low Conc SOW Cyanide	1814
Other:	

Tag No. ~~177188~~

Sampler(s) Signatures: MButterworth

REGION I

DAS Case #	Station Location
0291F	SW-05
CLP Sample #	Contractor Sample #
	D00064
Sampling Month/Day/Year	Sampling Time
9/9/99	0845
Matrix Ag	Designate: Comp. / Grab
Preservatives used: HCl / HNO_3 / other; Specify:	
Yes / No (Circle One)	ICE

ANALYSES	CHECK BOX THAT APPLIES TO THIS SAMPLE BOTTLE
Low/Med SOW VOA Organics	
Low/Med SOW Semi-VOA Organics	X
Low/Med SOW Pest/PCBs	
Low Conc SOW VOA Organics	
Low Conc SOW Semi-VOA Organics	
Low Conc SOW Pest/PCBs	
Low/Med SOW Metals 1810	
Low/Med SOW Cyanide	
Low Conc SOW Metals	
Low Conc SOW Cyanide	
Other:	

Tag No. ~~157330~~ MB

Sampler(s) Signatures: M Butterworth

REGION I

DAS Case #	Station Location
0291F	SW-05
CLP Sample #	Contractor Sample #
	D00064
Sampling Month/Day/Year	Sampling Time
9/9/99	0845
Matrix MS Ag	Designate: Comp. / Grab
Preservatives used: HCl / HNO_3 / other; Specify:	
Yes / No (Circle One)	pH < 2

ANALYSES	CHECK BOX THAT APPLIES TO THIS SAMPLE BOTTLE
Low/Med SOW VOA Organics	
Low/Med SOW Semi-VOA Organics	
Low/Med SOW Pest/PCBs	
Low Conc SOW VOA Organics	
Low Conc SOW Semi-VOA Organics	
Low Conc SOW Pest/PCBs	
Low/Med SOW Metals total	X
Low/Med SOW Cyanide	
Low Conc SOW Metals	
Low Conc SOW Cyanide 1803	
Other:	

Tag No. ~~177436~~ MB

Sampler(s) Signatures: M Butterworth

REGION I

DAS Case #	Station Location
0291F	SW-05
CLP Sample #	Contractor Sample #
	D00064
Sampling Month/Day/Year	Sampling Time
9/9/99	0845
Matrix	Designate:
Aq.	Comp. / Grab
Preservatives used: HCl ; HNO_3 ; other; Specify:	
Yes ; No (Circle One)	ICE

ANALYSES	CHECK BOX THAT APPLIES TO THIS SAMPLE BOTTLE
Low/Med SOW VOA Organics	
Low/Med SOW Semi-VOA Organics	
Low/Med SOW Pest/PCBs	X
Low Conc SOW VOA Organics	
Low Conc SOW Semi-VOA Organics	
Low Conc SOW Pest/PCBs	
Low/Med SOW Metals 1806	
Low/Med SOW Cyanide	
Low Conc SOW Metals	
Low Conc SOW Cyanide	
Other:	

Tag No. ~~157031~~

Sampler(s) Signatures: MButterworth

REGION I

DAS Case #	Station Location
0291F	SW-05
CLP Sample #	Contractor Sample #
	D00064
Sampling Month/Day/Year	Sampling Time
9/9/99	0845
Matrix	Designate:
Aq.	Comp. / Grab
Preservatives used: HCl ; HNO_3 ; other; Specify:	
Yes ; No (Circle One)	ICE

ANALYSES	CHECK BOX THAT APPLIES TO THIS SAMPLE BOTTLE
Low/Med SOW VOA Organics	
Low/Med SOW Semi-VOA Organics	X
Low/Med SOW Pest/PCBs	
Low Conc SOW VOA Organics	
Low Conc SOW Semi-VOA Organics	
Low Conc SOW Pest/PCBs	
Low/Med SOW Metals	
Low/Med SOW Cyanide 1807	
Low Conc SOW Metals	
Low Conc SOW Cyanide	
Other:	

Tag No. ~~157025~~

Sampler(s) Signatures: MButterworth

REGION I

DAS Case #	Station Location
0291F	SW-05
CLP Sample #	Contractor Sample #
	D00064
Sampling Month/Day/Year	Sampling Time
9/9/99	0845
Matrix	Designate:
Aq	Comp. / Grab
Preservatives used: HCl ; HNO_3 ; other; Specify:	
Yes ; No (Circle One)	ICE

ANALYSES	CHECK BOX THAT APPLIES TO THIS SAMPLE BOTTLE
Low/Med SOW VOA Organics	X
Low/Med SOW Semi-VOA Organics	
Low/Med SOW Pest/PCBs	
Low Conc SOW VOA Organics	
Low Conc SOW Semi-VOA Organics	
Low Conc SOW Pest/PCBs	
Low/Med SOW Metals 1808	
Low/Med SOW Cyanide	
Low Conc SOW Metals	
Low Conc SOW Cyanide	
Other:	

Tag No. ~~157028~~

Sampler(s) Signatures: MButterworth

REGION I

CEIMIC Corporation
Sample Log In Information

Date: 09/13/99 -10:38:06

Date Samples Received: 09/10/99

Date Due: 10/15/99

Client: Roy F. Weston Inc.

Project Name: Case 0291F

Client Task: Rogers Fibre Mill

Client Contact: Gretchen Franzheim

Project #: 990802
SDG: D00064
Case: 0291F

Project Amount: $7,670.00

Stored : 1,3,VOA

Ceimic Rep: PEG

Coordinator: HENRY

Report To : Roy F. Weston Inc.
217 Middlesex Turnpike
Burlington, MA 01803

Attn : Gretchen Franzheim

Invoice To: Roy F. Weston Inc.
217 Middlesex Turnpike
Burlington, MA 01803

Attn : Gretchen Franzheim

LAB ID	CLIENT ID		NO. CONT.	MATRIX	DATE RCVD	DATE SAMP	TIME SAMP	ANALYSIS & METHOD
-01A	D00064		25	AQUEOUS	09/10/99	09/09/99		Volatiles(8260A) Semivolatiles(CLP) Pesticides/PCB(CLP) TCN(CLP 335.2) TAL Metals(CLP) TAL Metals(CLP), TRACE
-01B	D00064	MS		AQUEOUS	09/10/99	09/09/99		Volatiles(8260A) Semivolatiles(CLP) Pesticides/PCB(CLP) TCN(CLP 335.2) TAL Metals(CLP) TAL Metals(CLP), TRACE
-01C	D00064	MSD/DUP		AQUEOUS	09/10/99	09/09/99		Volatiles(8260A) Semivolatiles(CLP) Pesticides/PCB(CLP) TCN(CLP 335.2) TAL Metals(CLP) TAL Metals(CLP), TRACE
-02A	D00065		9	AQUEOUS	09/10/99	09/09/99		Volatiles(8260A) Semivolatiles(CLP) Pesticides/PCB(CLP) TCN(CLP 335.2) TAL Metals(CLP) TAL Metals(CLP), TRACE
-03A	D00066		9	AQUEOUS	09/10/99	09/09/99		Volatiles(8260A) Semivolatiles(CLP) Pesticides/PCB(CLP)

1917

Project #: 990802

LAB ID	CLIENT ID		NO. CONT.	MATRIX	DATE RCVD	DATE SAMP	TIME SAMP	ANALYSIS & METHOD
-03A	D00066		9	AQUEOUS	09/10/99	09/09/99		TCN(CLP 335.2) TAL Metals(CLP) TAL Metals(CLP), TRACE
-04A	D00067		9	AQUEOUS	09/10/99	09/09/99		Volatiles(8260A) Semivolatiles(CLP) Pesticides/PCB(CLP) TCN(CLP 335.2) TAL Metals(CLP) TAL Metals(CLP), TRACE
-05A	D00068		17	SOIL	09/10/99	09/09/99		TOC(415.1) Volatiles(8260A) Semivolatiles(CLP) Pesticides/PCB(CLP) TCN(CLP 335.2) TAL Metals(CLP) TAL Metals(CLP), TRACE AVS/SEM (EPA DRAFT METHOD
-05B	D00068	MS		SOIL	09/10/99	09/09/99		TOC(415.1) Volatiles(8260A) Semivolatiles(CLP) Pesticides/PCB(CLP) TCN(CLP 335.2) TAL Metals(CLP) TAL Metals(CLP), TRACE AVS/SEM (EPA DRAFT METHOD
-05C	D00068	MSD/DUP		SOIL	09/10/99	09/09/99		TOC(415.1) Volatiles(8260A) Semivolatiles(CLP) Pesticides/PCB(CLP) TCN(CLP 335.2) TAL Metals(CLP) TAL Metals(CLP), TRACE AVS/SEM (EPA DRAFT METHOD
-06A	D00069		6	SOIL	09/10/99	09/09/99		TOC(415.1) Volatiles(8260A) Semivolatiles(CLP) Pesticides/PCB(CLP) TCN(CLP 335.2) TAL Metals(CLP) TAL Metals(CLP), TRACE AVS/SEM (EPA DRAFT METHOD
-07A	D00070		6	SOIL	09/10/99	09/09/99		TOC(415.1) Volatiles(8260A) Semivolatiles(CLP) Pesticides/PCB(CLP) TCN(CLP 335.2) TAL Metals(CLP) TAL Metals(CLP), TRACE AVS/SEM (EPA DRAFT METHOD

1918

Project #: 990802

LAB ID	CLIENT ID		NO. CONT.	MATRIX	DATE RCVD	DATE SAMP	TIME SAMP	ANALYSIS & METHOD
-08A	D00071		6	SOIL	09/10/99	09/09/99		TOC(415.1) Volatiles(8260A) Semivolatiles(CLP) Pesticides/PCB(CLP) TCN(CLP 335.2) TAL Metals(CLP) TAL Metals(CLP), TRACE AVS/SEM (EPA DRAFT METHOD
-09A	D00072		2	AQUEOUS	09/10/99	09/09/99		D. TAL Metals(CLP) D. TAL Metals(CLP), TRACE
-09B	D00072	MS		AQUEOUS	09/10/99	09/09/99		D. TAL Metals(CLP) D. TAL Metals(CLP), TRACE
-09C	D00072	MSD/DUP		AQUEOUS	09/10/99	09/09/99		D. TAL Metals(CLP) D. TAL Metals(CLP), TRACE
-10A	D00073		1	AQUEOUS	09/10/99	09/09/99		D. TAL Metals(CLP) D. TAL Metals(CLP), TRACE
-11A	D00074		1	AQUEOUS	09/10/99	09/09/99		D. TAL Metals(CLP) D. TAL Metals(CLP), TRACE
-12A	D00075		1	AQUEOUS	09/10/99	09/09/99		D. TAL Metals(CLP) D. TAL Metals(CLP), TRACE
-13A	D00076		9	AQUEOUS	09/10/99	09/09/99		Volatiles(8260A) Semivolatiles(CLP) Pesticides/PCB(CLP) TCN(CLP 335.2) TAL Metals(CLP) TAL Metals(CLP), TRACE
-14A	D00077		3	AQUEOUS	09/10/99	09/09/99		Volatiles(8260A)
-15A	D00078		1	PE	09/10/99	09/09/99		Pesticides/PCB(CLP)
-16A	D00079		1	PE	09/10/99	09/09/99		Pesticides/PCB(CLP)
-17A	D00080		1	PE	09/10/99	09/09/99		TCN(CLP 335.2) TAL Metals(CLP) TAL Metals(CLP), TRACE
-18A	D00081		1	PE	09/10/99	09/09/99		TCN(CLP 335.2) TAL Metals(CLP) TAL Metals(CLP), TRACE

1919

Project #: 990802

LAB ID	CLIENT ID	NO. CONT.	MATRIX	DATE RCVD	DATE SAMP	TIME SAMP	ANALYSIS & METHOD
-19A	D00082	1	PE	09/10/99	09/09/99		Volatiles(8260A)
-20A	D00083	1	PE	09/10/99	09/09/99		Semivolatiles(CLP)
-21A	D00084	1	PE	09/10/99	09/09/99		TCN(CLP 335.2) TAL Metals(CLP) TAL Metals(CLP), TRACE

Comments:

Requirements:

QC and deliverables are level 4-clp like, DISK, 35 day tat
ms/msd billable *EPA purge material required*
2 COPIES
VOA DL 1PPB EXCEPT KETONES 5PPB AQ; SOIL 1PPB EXCEPT KETONES

K.T.: 02/12/00

LIMS Identifier: 9909024

LIMS Project Code: WESTON_0291F

Approved by: HK

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SAMPLE LOG-IN SHEET

Lab Name Cerimic	Page 1 of 2
Received By (Print Name) Amy & John	Log-in Date 9.10.99
Received By (Signature) Amy & John	
Case Number 990802	Sample Delivery Group No. / SAS Number

Remarks:

		EPA Sample#	Corresponding Sample Tag#	Corresponding Assigned Lab#	Remarks: Condition of Sample Shipment, etc.
1. Custody Seal(s)	Present/Absent* Intact/Broken	SW-05	D00064	990802-01	--
2. Custody Seal Nos.	NA	SW-06	D00065	-02	
3. Chain of Custody Records	Present/Absent*	SW-07	D00066	-03	
4. Traffic Reports or Packing Lists	Present/Absent*	SW-08	D00067	-04	
5. Airbill	Airbil/Sticker Present/Absent*	SED-05	D00068	-05	
6. Airbill No.	Hand Delivered	SED-06	D00069	-06	
7. Sample Tags	Present/Absent*	SED-07	D00070	-07	
Sample Tag Numbers	Listed/Not Listed on Chain-of-Custody	SED-08	D00071	-08	
8. Sample Condition	Intact/Broken*/Leaking	SW-05	D00072	-09	
9. Cooler Temperature	2°C				
10. Does information on custody records, traffic reports, and sample tags agree?	Yes/No*	SW-06	D00073	-10	
11. Date Received at Lab	9.10.99	SW-07	D00074	-11	
12. Time Received	11:30	SW-08	D00075	-12	
Sample Transfer		RB-02	D00076	-13	
Fraction	Fraction	TB-02	D00077	-14	
Area #	Area #	PE-08	D00078	-15	
By	By	PE-09	D00079	-16	
On	On	PE-10	D00080	-17	

* Contact SMO and attach record of resolution

Reviewed By	Logbook No. 1921
Date	Logbook Page No.

SAMPLE LOG-IN SHEET

Lab Name Cermic	Page 2 of 2
Received By (Print Name) Amy St John	Log-In Date 9.10.99
Received By (Signature) Amy St John	
Case Number 990802	Sample Delivery Group No. / SAS Number

Remarks:

		EPA Sample#	Corresponding Sample Tag#	Corresponding Assigned Lab#	Remarks: Condition of Sample Shipment, etc.
1. Custody Seal(s)	Present/Absent* Intact/Broken	PE-11	D00081	990802-18	--
2. Custody Seal Nos.	NA	PE-12	D00082	-19	
3. Chain of Custody Records	Present/Absent*	PE-13	D00083	-20	
4. Traffic Reports or Packing Lists	Present/Absent*	PE-14	D00084	-21	
5. Airbill	Airbil/Sticker Present/Absent*				
6. Airbill No.	Hand delivered				
7. Sample Tags	Present/Absent*				
Sample Tag Numbers	Listed/Not Listed on Chain-of-Custody				
8. Sample Condition	Intact/Broken*/Leaking				
9. Cooler Temperature	2°C				
10. Does information on custody records, traffic reports, and sample tags agree?	Yes/No*				
11. Date Received at Lab	9.10.99				
12. Time Received	11:30				

Sample Transfer	
Fraction	Fraction
Area #	Area #
By	By
On	On

* Contact SMO and attach record of resolution

Reviewed By	Logbook No. 1922
Date	Logbook Page No.

Sample Receiving
Incoming Project Tracking Log

Date	Time	Project #	Client Case #	Sample #	Refrig	Courier	Airbill #	Init.	Comments	Review by
3.99	11:30	990788	EPA	1-6 + 8	17	FX	8148763494	AS	273416	
1/99	4:30	990789	IT-Gradient	1-10	VOA	Pickup				
3/99	4:30	990790	G/Miller	1-10	VOA 6	FX	8140149184701		Superfund	
3.99	4:30	990788	10-EPA	10-13	17	FX	8148763494	AS	273416	
3.99	4:30	990791	EPA	7-9 & 10	17, VOA	FX		AS		
7.99	12:00	990792	Ceimic BR	1-12	24	FX	400-7475543	AS	90901	
7.99	12:00	990793	Ceimic BR	1-6	VOA	FX			990905	
7.99	12:00	990794	Ceimic BR	1	24	FX			Ecosystems	
7.99	12:00	990794	Ceimic BR	1	24	FX	8148763447133	AS	273416	
8.99	2:00	990791	EPA	11-20	17, VOA	FX				
8.99	3:30	990795	EPA	1-4	17, VOA	FX				
8.99	4:30	990796	Radian	1-8	3, VOA	FX	8121914763	AS	301419.40	
8.99	11:00	990797	IT	01	3	FX	8144137318	AS	316071.6	
9.99	12:15	990798	EPA	1-6	VOA	FX	8144465872	AS	273645	
9.99	2:00	990799	Tetra Tech	1-9	3, VOA	FX	8078912742	AS	CTO 0036	
9.99									35 [illegible]	
9.10.99	11:00	990800	Jacobs	1 & 2	3	FX	8148893864	AS	[illegible]	
9.10.99	4:00	990802	Weston	1-3	3	HANDSHAKE WAIVED		PC		
9.10.99	4:00	990802	Weston	04-13	1			RC		
9.10.99	4:00	990801	ENSR	1-19	F1	FX	8128354316	AS	NAS Southington/Mouth tissue samples	

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Page _____

QAT0191

Ceimic Corporation
Sample Receiving
Incoming Project Tracking Log

ORIGINAL IN LOGBOOK

1924

Date	Time	Project #	Client Case #	Sample #	Refrig	Courier	Airbill #	Init.	Comments	Review
9/10/99	4:00	990802	Weston	15-21 PE	PE cooler	Hand Del	—	[illegible]		YP
9/10/99	4:00	990748	USEPA	07-13	VOA, PE	Fed Ex	814[illegible]	[illegible]	27365	
9/10/99	5:00	990799	Tetra Tech	10-14	15	FX	810789127[illegible]	AS	CT00086	
9/10/99	5:00	990804	EA Engineer	1-20	VOA	FX	81[illegible]	PC		
9/10/99	5:00	990803	EA Eng.	1-11	VOA	FX	[illegible]	PC		
9/11/99	12:00	990805	Basil	[illegible]	24	FX	81[illegible]	PC		
9/11/99	9:30	990806	Jacobs	~~3-11-5~~ 11-15	3, VOA	FX	814[illegible]	AS	[illegible]	
9/13/99	12:30	990799	Tetra Tech	16-20	12, VOA	FX	810789127[illegible]	AS	CT00086	
9/13/99	12:30	990807	Tetra Tech	1-3	12, VOA	FX	↓	↓	↓	
9/13/99	2:15	990798	EPA	14-18	VOA	FX	8144[illegible]	AS	27365	
9/13/99	4:00	990808	PCR	1-3	7	DHL	86850[illegible]	KW	9-1023	
9/14/99	12:00	990809	ENSR	1-4	F1	FX	813[illegible]	AS	45531	
9/15/99	10:15	990810	Town of Springfield	1-4	12, VOA	FX	812712[illegible] 812712[illegible]	KW	OSL Site	
9/15/99	12:00	990811	EA Eng.	1-18	VOA	FX	814779[illegible]	KW	2960063	
9/15/99	2:00	990812	EPA	1-7	12, PE cooler	FX	[illegible]	KW	27377	
9/15/99	3:30	990813	Ceimic BR	1-11	12	FX	400-7475 5124	KW	ERM/GALPA	
9/15/99	4:00	990793	Ceimic BR	1-6	6	FX	400-7475 5124	AS	90901	
9/15/99	4:00	990814	Ceimic BR	1-10	12	FX	400-7475 5124	KW	Cyanamid Bayonne	✓

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QAT0191

Page _____

Internal Lab Sample Transfer Records
and
Tracking Sheets

CEIMIC CORPORATION
VOLATILE ORGANICS SAMPLE TRACKING LOG

Client : *Roy F. Weston Inc.*
Case number : *990802*
SDG : *D00064*

Date : *09/10/99*
Date Received: 09/10/99

Date Sampled	Ceimic ID	Client ID		Run Deadline	Matrix	Analysis	Good Run	Date Run	Comments	Project Due Date	Init
09/09/99	990802-01A	D00064		~~09/24/99~~ 23	AQUEOUS	Volatiles(8260A)	06995	09/21/99		10/15/99	
09/09/99	990802-01B	D00064	MS	09/24/99	AQUEOUS	Volatiles(8260A)	07013	09/22/99		10/15/99	
09/09/99	990802-01C	D00064	MSD/DU	09/24/99	AQUEOUS	Volatiles(8260A)	07014	↓		10/15/99	
09/09/99	990802-02A	D00065		09/24/99	AQUEOUS	Volatiles(8260A)	06996	09/21/99		10/15/99	
09/09/99	990802-03A	D00066		09/24/99	AQUEOUS	Volatiles(8260A)	06997	↓		10/15/99	
09/09/99	990802-04A	D00067		09/24/99	AQUEOUS	Volatiles(8260A)	06998	↓		10/15/99	
09/09/99	990802-05A	D00068		09/24/99	SOIL	Volatiles(8260A)	GW608	09/22/99		10/15/99	
09/09/99	990802-05B	D00068	MS	09/24/99	SOIL	Volatiles(8260A)	GW614	↓	GW605 leak.	10/15/99	
09/09/99	990802-05C	D00068	MSD	09/24/99	SOIL	Volatiles(8260A)	GW606	09/22/99		10/15/99	

DD 9/14/99

Project Name: Case 0291F
Client Project/Task: Rogers Fibre Mill
QC and deliverables are level 4-clp like, DISK, 35 day tat
ms/msd billable *EPA purge material required*
2 COPIES
VOA DL 1PPB EXCEPT KETONES 5PPB AQ; SOIL 1PPB EXCEPT KETONES 5 ppb. — special ICAL 8/1/99

MIVA, B, CS2, ketones compds.
Same as 980647.

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CEIMIC CORPORATION
VOLATILE ORGANICS SAMPLE TRACKING LOG

Client : *Roy F. Weston Inc.*
Case number : *990802*
SDG : *D00064*

Date : *09/10/99*

Date Received: 09/10/99

Date Sampled	Ceimic ID	Client ID	Run Deadline	Matrix	Analysis	Good Run	Date Run	Comments	Project Due Date	Init
09/09/99	990802-06A	D00069	09/~~24~~ 23/99	SOIL	Volatiles(8260A)	GW609	09/22/99	GW613 extra	10/15/99	
09/09/99	990802-07A	D00070	09/24/99	SOIL	Volatiles(8260A)	GW610	09/22/99	GW612 bad purge 1534	10/15/99	
09/09/99	990802-08A	D00071	09/24/99	SOIL	Volatiles(8260A)	GW611	↓		10/15/99	
09/09/99	990802-13A	D00076	09/24/99	AQUEOUS	Volatiles(8260A)	06999	09/24/99		10/15/99	
09/09/99	990802-14A	D00077	09/24/99	AQUEOUS	Volatiles(8260A)	07000	↓		10/15/99	
09/09/99	990802-19A	D00082	09/24/99	PE	Volatiles(8260A)	07015	09/22/99	07001 5ml/5ml, Run 1 4ml 07002 10ml 1077	10/15/99	

D09/14/99

Project Name: Case 0291F
Client Project/Task: Rogers Fibre Mill
QC and Deliverables are level 4-clp like, DISK, 35 day tat
ms/msd billable *EPA purge material required*
2 COPIES
VOA DL 1PPB EXCEPT KETONES 5PPB AQ; SOIL 1PPB EXCEPT KETONES

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CEIMIC CORPORATION
SEMI-VOLATILE ORGANICS SAMPLE TRACKING LOG

Client : *Roy F. Weston Inc.*
Case number : *990802*
SDG :

Date : *09/14/99*

Date Received	Ceimic ID	Client ID	Matrix	Analysis	Good Run	Comments	Project Due Date
09/10/99	990802-01A	D00064	AQUEOUS	Semivolatiles (CLP)	AX199	Screens	10/15/99
09/10/99	990802-01B	D00064 MS	AQUEOUS	Semivolatiles (CLP)	AX200		10/15/99
09/10/99	990802-01C	D00064 MSD/DU	AQUEOUS	Semivolatiles (CLP)	AX201		10/15/99
09/10/99	990802-02A	D00065	AQUEOUS	Semivolatiles (CLP)	AX202		10/15/99
09/10/99	990802-03A	D00066	AQUEOUS	Semivolatiles (CLP)	AX203		10/15/99
09/10/99	990802-04A	D00067	AQUEOUS	Semivolatiles (CLP)	AX204		10/15/99
09/10/99	990802-05A	D00068	SOIL	Semivolatiles (CLP)	DX072	✓	10/15/99
09/10/99	990802-05B	D00068 MS	SOIL	Semivolatiles (CLP)	AX297	✓	10/15/99
09/10/99	990802-05C	D00068 MSD/DU	SOIL	Semivolatiles (CLP)	AX298	✓	10/15/99
		50915-B3	A	JY518	AX193	(1-4, 13)	
		-LCS3	↓		JY515		
		50916-B3	A		AX195	(20)	
		-LCS3	↓		AX196		

Project Name: ~~Case~~ 0291F
Client Project/Task: Rogers Fibre Mill

Comment: *QC and deliverables are level 4-clp like, DISK, 35 day tat*
ms/msd billable *EPA purge material required*
2 COPIES
VOA DL 1PPB EXCEPT KETONES 5PPB AQ; SOIL 1PPB EXCEPT KETONES

COPY FOUND IN CEIMIC LOGBOOK

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CEIMIC CORPORATION
SEMI-VOLATILE ORGANICS SAMPLE TRACKING LOG

Client : Roy F. Weston Inc.
Case number : 990802
SDG :

Date : 09/14/99

Date Received	Ceimic ID	Client ID	Matrix	Analysis	Good Run	Comments	Project Due Date
09/10/99	990802-06A	D00069	SOIL	Semivolatiles (CLP)	DX073	✓	10/15/99
09/10/99	990802-07A	D00070	SOIL	Semivolatiles (CLP)	~~AX299~~ AX299	✓	10/15/99
09/10/99	990802-08A	D00071	SOIL	Semivolatiles (CLP)	AX300	✓	10/15/99
09/10/99	990802-13A	D00076	AQUEOUS	Semivolatiles (CLP)	AX205		10/15/99
09/10/99	990802-20A	D00083	PE	Semivolatiles (CLP)	AX197		10/15/99
		S0914-B1	S	AX287	DX056	(05, 05MS, 05MSD, 06-08)	
		-LCS1	↓		DX040		

Project Name: Case 0291F
Client Project/Task: Rogers Fibre Mill

Comment: QC and deliverables are level 4-clp like, DISK, 35 day tat
ms/msd billable EPA purge material required
2 COPIES
VOA DL 1PPB EXCEPT KETONES 5PPB AQ; SOIL 1PPB EXCEPT KETONES

COPY ORIGINAL
FOUND IN CEIMIC LOGBOOK

Other Records

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Ceimic Corporation
VOA NARRATIVE

Client: *Roy F. Weston Inc.* Method: Volatiles(8260A)

Project: 990802 Case: 0291F SDG: D00064

INSTRUMENTATION

_____	MS12	HP5973 GC/MS,20m,0.18mm ID,1um,DB624 capillary column
_____	MS2	HP5970B GC/MS,75m,0.53mm ID,3um,DB-624 megabore column
_____	MS3	HP5970B GC/MS,75m,0.53mm ID,3um,HP-624 megabore column
_____	MS5	HP5971 GC/MS,105m,0.53mm ID,3um,VOCOL megabore column
_____	MS6	HP5970B GC/MS,75m,0.53mm ID,3um,HP-624 megabore column
_____	MS7	HP5970B GC/MS,75m,0.53mm ID,3um,DB-624 megabore column
_____	MS8	HP5971 GC/MS,105m,0.53mm ID,3um,VOCOL megabore column
_____	GC1	ELCD/PID/FID GC,90m,0.53mm ID,3um,DB-624 megabore column
_____	GC2	ELCD/PID GC,105m,0.53mm ID,3um,RTX 502.2 megabore column
_____	MS15	HP5970B GC/MS,105m.0.53mm ID,3um,VOCOL megabore column

NONCOMPLIANCES:

The following samples had low recoveries for internal standards and/or surrogates. The observation of this low recovery in the reanalysis of these samples confirms a matrix effect.

Client ID: *Ceimic ID:*

The following samples had Target Compound results which exceed the calibration range. These samples were subsequently analyzed at a dilution.

Client ID: *Ceimic ID:*

Additional Comments:

(See attached page)

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Analyst: _____ Supervisor: [illegible]

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CEIMIC CORPORATION
SDG Narrative Notes

Client : *Roy F. Weston Inc.*
Project : *Case 0291F*

Case number : *990802*
SDG : *D00064*

The PE was analyzed at 10ml/25ml for a 1X dilution since and instrument ~~[illegible]~~ was given to the lab.

Initials:_____

Describe non-compliances for samples in the SDG or the Non-Compliance Report Form, if applicable:

* *reason for holding time exceedances*
* *calibration and sample QC non-compliances*
* *reasons for sample dilution*
* *confirmed and suspected matrix effects*

BNA NARRATIVE

Project: 990802

Case: 0291F

SDG: D00064

INSTRUMENTATION

✓	MS1	HP5970B GC/MS,30 m,25 mm ID, DB-5 fused silica capillary column
	MS4	HP5970B GC/MS,30 m,25 mm ID, DB-5 fused silica capillary column
	MS9	HP5970B GC/MS,30 m,25 mm ID, DB-5 fused silica capillary column
✓	MS10	HP5970B GC/MS,30 m,25 mm ID, DB-5 fused silica capillary column
	MS11	HP5970B GC/MS,30 m,25 mm ID, DB-5 fused silica capillary column
	MS13	HP5970B GC/MS,30 m,25 mm ID, ZB-5 fused silica capillary column

NONCOMPLIANCES:

The following samples had low recoveries for internal standards. The observation of this low recovery in the reanalysis of these samples confirms a matrix effect.

Client ID: Ceimic ID:

The following samples had Target Compound results which exceed the calibration range. These samples were subsequently analyzed at a dilution.

Client ID: Ceimic ID:

Analyst: _____ Supervisor: a/c

CEIMIC CORPORATION
BNA Case Review Summary

Client : Roy F. Weston Inc.

Project: 990802

Case : 0291F

Ceimic ID	Client ID		Date Sampled	BNA Ext hold	Matrix	Date Extracted	Date Analyzed
990802-01	D00064		09/09/99	09/16/99	AQUEOUS	9/15	9/20
990802-01	D00064	MS	09/09/99	09/16/99	AQUEOUS		
990802-01	D00064	MSD/DU	09/09/99	09/16/99	AQUEOUS		
990802-02	D00065		09/09/99	09/16/99	AQUEOUS		
990802-03	D00066		09/09/99	09/16/99	AQUEOUS		
990802-04	D00067		09/09/99	09/16/99	AQUEOUS		
990802-05	D00068		09/09/99	09/23/99	SOIL	9/14	9/28
990802-05	D00068	MS	09/09/99	09/23/99	SOIL		9/30
990802-05	D00068	MSD/DU	09/09/99	09/23/99	SOIL		9/30
990802-06	D00069		09/09/99	09/23/99	SOIL		9/28

Blanks: AX193 SC915-B3A no TIC's
AX195 SC916-B3A no TIC's
JY518 SC915-B3J no TIC's

—— Compliant with method/project
—— Completeness and reasonableness
—— PQL>2X MDL
—— Method blank criteria met
—— Report narrative information check
—— Samples accounted for
—— Weight, % Moisture, pH checked
—— Surrogates recovery within limits
—— MS/MSD recovery within limits
—— Method blank run on correct GC
—— Samples analyzed within hold tim
—— Samples analyzed within tune tim
—— Internal standard areas complian
—— TCL and TIC spectra initialized
—— Fifty QCAL'd properly

Reviewed by: [illegible]

Date: 10/12/99

1934

CEIMIC CORPORATION
BNA Case Review Summary

Client : Roy F. Weston Inc.

Project: 990802

Case : 0291F

Ceimic ID	Client ID	Date Sampled	BNA Ext hold	Matrix	Date Extracted	Date Analyzed
990802-07	D00070	09/09/99	09/23/99	SOIL	9/14	9/30
990802-08	D00071	09/09/99	09/23/99	SOIL	↓	↓
990802-13	D00076	09/09/99	09/16/99	AQUEOUS	9/15	9/20
990802-20	D00083	09/09/99	09/16/99	PE	9/16	9/20

DX256 SC914-B1D acid cut 3.46
m/z 331, 329, 62, 59, 346 at 10:22

AX297 SC914-B1A acid cut 3.36
m/z 329, 331, 62, 59 303 at 8:

Blanks:

—— Compliant with method/project
—— Completeness and reasonableness
—— PQL>2X MDL
—— Method blank criteria met
—— Report narrative information check
—— Samples accounted for
—— Weight, % Moisture, pH checked
—— Surrogates recovery within limits
—— MS/MSD recovery within limits
—— Method blank run on correct GC
—— Samples analyzed within hold tim
—— Samples analyzed within tune tim
—— Internal standard areas complian
—— TCL and TIC spectra initialized
—— Fifty QCAL'd properly

Reviewed by: [illegible]

Date: 10/12/99

1935

ANALYSIS: Pest / PCB

CHROMATOGRAPHY NARRATIVE

CEIMIC Project #: 990802

EPA (client) Case #: 0291F SDG: D00064

INSTRUMENTATION

Please check the appropriate instrument (s) used to run this case.

___ HPLC_2: Waters Millennium HPLC using 3.9 x 150 mm Novapak C8 column.
___ HPLC_1: PAH (8310) LCI: Waters Millennium HPLC using 15.0 cm x 4.6 mm LC-PAH column.
___ ADO_1: HP5890II using 30m x 0.53mm ID DB-608 megabore column, GC-4
___ AD1_1: HP5890II using 30m x 0.53mm ID DB-1701 megabore column, GC-4

___ AD2_1: HP5890 using 30m x 0.53mm ID DB-608 megabore column, GC-1
___ AD3_1: HP5890 using 30m x 0.53mm ID DB-5 megabore column, GC-1

___ AD4_1: HP5890II using 30m x 0.53mm ID DB-608 megabore column, GC-5
___ AD5_1: HP5890II using 30m x 0.53mm ID DB-1701 megabore column, GC-5

___ AD6_1: HP5890II using 30m x 0.53mm ID DB-608 megabore column, GC-8
___ AD7_1: HP5890II using 30m x 0.53mm ID DB-5 megabore column, GC-8

___ AD8_1: HP5890II using 30m x 0.53mm ID DB-608 megabore column, GC-7
___ AD9_1: HP5890II using 30m x 0.53mm ID DB-1701 megabore column, GC-7

___ AD17_1: HP5890II using 30m x 0.53mm ID DB-~~5~~ 608 megabore column, GC-6
___ AD18_1: HP5890II using 30m x 0.53mm ID DB-~~608~~ 5 megabore column, GC-6

✓ AD19_1: HP5890 using 30m x 0.53mm ID DB-608 megabore column, GC-3
✓ AD20_1: HP5890 using 30m x 0.53mm ID DB-5 megabore column, GC-3

___ AD21-1: HP5890II using 30m x 0.25mm ID DB-5 capillary column, GC-2
___ AD22-1: HP5890II using 30m x 0.25mm ID DB-5 capillary column, GC-2

___ AD23-1: HP5890II using 30m x 0.25mm ID DB-5 capillary column, GC-9
___ AD24-1: HP5890II using 30m x 0.25mm ID DB-5 capillary column, GC-9

NONCOMPLIANCES

Please include all problems with holding times, surrogates, internal standards, tune times, initial calibrations, continuing calibrations, matrix spikes/dups, etc.

P 802

Weston - 0291F

COVER SHEET

FAX

To: Linda McGee ~~Dr. Neil Pothier~~, Ceimic Corporation

Fax #:

Subject: **DAS Case# 0291F** for Rogers Fibre Mill site

Date: September 10, 1999

Pages: 1, including this cover sheet.

COMMENTS:

Please remember to:

- Log all samples into **one SDG**.
- Analyze the samples by the Methods referenced in the original bid. The previous round of sampling was reported under Ceimic ID 980647).
- **Run % solids for the sediment samples prior to extraction/digestion to determine whether the Sediment Analytical DAS procedure must be followed. Fax a copy of the Percent Solids results to me at the START office within 7 days of sample receipt.**
- Assign DAS Case# "0291F" as the EPA Case Number and "D00064" as the SDG Number. Please log in samples using the "D#####" identifiers.
- START field-filtered samples D00072 through D00075. Please indicate on the "Comments" field at the bottom of the Form is that these are **dissolved metals** results.
- Perform MS/MSD or MS/DUP analysis on sediment sample D00068 and surface water sample D00064. Also perform MS/DUP for dissolved metals only on filtered surface water sample D00072.
- Log in for 35 day hardcopy TAT. The report for this SDG will be due on 15 October 1999. No diskette is required.
- Record the temperature of the samples upon receipt. If samples were received outside of the 2-6 degree Celcius range, please let me know.
- Please double check the identifier on the PE samples (ex., TT02874) with the actual vial itself. IF there is any discrepancy found, please contact me at START **immediately** and wait for a response before prepping/analyzing the sample.
- Please reference Purchase Order number 0005623 on the Invoice and fax a copy of the invoice to my attention.

Thanks for your help!

From the desk of...

Gretchen Franzheim
Project Scientist
Roy F. Weston, Inc./START Region I
217 Middlesex Turnpike
Burlington, MA 01803

(781) 229-6430 Ext. 215

COVER SHEET

FAX

To: Henry Liebowicz, CEIMIC

Fax #:

Subject: PE instructions for Metals and Cyanide

Date: September 14, 1999

Pages: 6, including this cover sheet.

COMMENTS:

Following this cover page are the PE instructions for the Soil Metals PE (D00080) (2 pages) and the aqueous metals (D00084) and cyanide (D00081) PE ampules. An aqueous mercury PE had not been provided with the sample shipment.

From the desk of...

Gretchen Franzheim
Project Scientist
Roy F. Weston, Inc./START Region I
217 Middlesex Turnpike
Burlington, MA 01803

(781) 229-6430 Ext. 215
Fax: (781) 272-3619

INSTRUCTIONS FOR LOW/MEDIUM CONCENTRATION INORGANIC PERFORMANCE EVALUATION SAMPLES METALS IN SOILS

Note: These instructions are for advisory purposes only. If any apparent conflict exists between these instructions and the contract, follow the contract.

APPLICATION: For use with SOW ILM01.0 and revisions.

CAUTION: Read instructions carefully before opening bottles.

Contains Metals and Heavy Metals

Material Safety Data Sheets available upon request.

(A) SAMPLE DESCRIPTION

Enclosed is a set of metals in soils Performance Evaluation Samples (PES). This set consists of one or more sealed bottles containing approximately 10 - 25g of homogeneous soil. Check the chain-of custody sheets to determine the number of samples provided.

Samples do not require refrigeration. None of the samples are to be opened until sample preparation/analysis is to occur. If samples are refrigerated, allow them to reach ambient temperature before proceeding with processing and analysis.

(B) BREAKAGE OR MISSING ITEMS

Check the contents of the shipment carefully for any broken, leaking, or missing items. Check that the seal is intact on each bottle. Refer to enclosed chain-of-custody sheets. Report any problems to Mr. Art Clarke, Materials Document Control Officer, ICF Kaiser (702) 895-8714. Return chain-of-custody sheet with appropriate annotations and signatures to Mr. Clarke at the address provided below.

ICF Kaiser
2700 Chandler Ave - Bldg C
Las Vegas, NV 89120

(C) ANALYSIS REQUIREMENTS

These samples are to be analyzed as described in your contract. These instructions are for advisory purposes only. If any apparent conflict exists between these instructions and your contract, follow your contract.

(D) ANALYSIS OF SAMPLES

The instructions provided below are intended as an aid in preparing samples for analysis. Allow sample to reach ambient temperature before opening to remove an aliquot for analysis. Mix sample by repeated inversions prior to removing aliquot for analysis.

Break seal and open bottle carefully.

To begin the analysis, weigh out approximately 1.0 g of the bottle contents.

Continue with sample preparation and analysis as described in your statement-of-work.

(E) REPORTING

Report the results of the original Performance Evaluation Sample material in mg/Kg.

INSTRUCTIONS FOR LOW/MEDIUM CONCENTRATION INORGANIC PERFORMANCE EVALUATION SAMPLES

Note: These instructions are for advisory purposes only. If any apparent conflict exists between these instructions and the contract, follow the contract.

APPLICATION: For use with SOW ILM01.0 and Revisions

CAUTION: Read instructions carefully before opening bottles

Contains dilute acidic
or basic aqueous solution.

Material Safety Data Sheets
available upon request.

(A) SAMPLE DESCRIPTION

Enclosed is a set of Low/Medium Concentration Inorganic Performance Evaluation Sample (PES). This set consists of one or more bottles containing approximately 45 mL of the following fractions: metal concentrate (no mercury) in a matrix of 5% (v/v) nitric acid; a mercury concentrate in a matrix of 0.05% (w/v)
potassium dichromate and 5% (v/v) nitric acid; and cyanide concentrate in a matrix of 0.05% (w/v) sodium hydroxide. Check the chain-of-custody sheets to determine the number of bottles provided for each analytical fraction that you are required to analyze.

None of the bottles are to be opened until sample preparation/analysis is to occur. Samples do not require refrigeration upon receipt. If the sample is refrigerated, allow it to reach ambient temperature before proceeding with processing and analysis.

NOTE: Cyanide PES must be stored in dark to prevent sample degradation and possible erroneous analytical results.

(B) Breakage or Missing Items

Check the contents of the shipment carefully for any broken, leaking, or missing items. Check that seal is intact on each bottle. Refer to enclosed chain-of-custody sheets. Report any problems to Mr. Art Clarke, Materials Document Control Officer, ICF Kaiser (702) 895-8714. Return chain-of-custody sheet with appropriate annotations and signatures to Mr. Clarke at the address provided below.

ICF Kaiser
2700 Chandler Ave - Bldg C
Las Vegas, NV 89120

(C) Analysis Requirements

Samples generated from these bottles are to be analyzed as described in your contract. These instructions are for advisory purposes only. If any apparent conflict exists between these instructions and your contract follow your contract.

(D) Generation of Samples for Analysis

The instructions provided below are intended as an aid in preparing samples for analysis. If samples have been refrigerated, allow bottles to reach ambient temperature before opening to remove volumetric amounts for sample generation. Table 1 lists a summary of the required sample preparations.

USE HIGH PURITY ACIDS AND LABORATORY REAGENT-GRADE WATER FOR ALL DILUTIONS

TABLE 1. SAMPLE PREPARATION

FRACTION	BOTTLE	VOLUME OF PES TO DILUTE	TOTAL VOLUME OF SAMPLE
Metals-GFAAS	Metals	20.0 mL	100.0 mL
Metals-ICP	Metals	20.0 mL	100.0 mL
Mercury	Mercury	1.0 mL	100.0 mL
Cyanide	Cyanide	5.0 mL	500.0 mL

General Instructions

Allow bottles to reach ambient temperature before opening and removing volumetric amounts for sample generation. Use a pipette to transfer volumetric aliquots of bottled solutions to laboratory reagent water.

Instructions for Metals Preparation and Analysis

The same metal PES is used for both ICP and graphite furnace AA analysis.

For ICP Analysis - Dilute metal PES concentrate 5 fold with 2% (v/v) nitric acid. First, break the seal on the PES sample bottle and pipet 20.0 mL of the PES concentrate into a 100 ml volumetric flask. Dilute to volume with 2% (v/v) nitric acid. Mix thoroughly. The sample is now ready for processing and analysis.

For Graphite Furnace AA Analysis - Dilute the metal PES concentrate 5-fold with 2% (v/v) nitric acid. Pipet another 20.0 mL aliquot of the PES concentrate into a 100 mL volumetric flask. Dilute to volume with 2% (v/v) nitric acid. Mix thoroughly. The sample is now ready for processing and analysis.

Continue with processing and analysis as described in your statement-of-work.

NOTE: THIS SAMPLE DOES NOT CONTAIN MERCURY AND THE CONCENTRATE VOLUME IS NOT SUFFICIENT TO PERFORM MERCURY ANALYSIS. DO NOT ANALYZE THIS PERFORMANCE EVALUATION SAMPLE FOR MERCURY.

Instructions for Mercury Preparation and Analysis

For Cold Vapor AA Analysis - To begin the analysis, dilute mercury PES concentrate 100-fold with 2% (w/v) nitric acid. Break the seal on the PES bottle and pipet 1.0 mL of the PES concentrate into a 100 mL volumetric flask. Dilute to volume with 2% (v/v) nitric acid. Mix thoroughly. The sample is now ready for processing and analysis.

Continue with the analysis as described in your statement-of-work.

Instructions for Cyanide Preparation and Analysis

NOTE: Do not acidify this sample. Low pH will result in degradation of the sample and erroneous analytical results.

Dilute the cyanide PES concentrate 100-fold with 0.01 M sodium hydroxide. Break the seal on the PES bottle and pipet 5.0 mL of the PES concentrate into a 500 mL volumetric flask. Dilute to volume with 0.01 M sodium hydroxide and mix thoroughly. The sample is now ready for processing and analysis.

Continue with the analysis as described in your statement-of-work.

(E) REPORTING

Report the results for the diluted samples prepared as described above, not for the concentrated performance evaluation samples as received.

Ceimic Corporation
Sample Receiving
Refrigerator Temperature Log

ORIGINAL IN LOGBOOK

Month: October Year: 1999

Refrigerator ID

Day of Month	1	2	3	4	5	6	7	8	9	12	13	XXX	14	15	16	17	18	19	20	21	23	24	25	Time	Init.	Comments	Review By
Fri 1	2°C	3°C	4°C	4°C	0°C	1°C	4°C	5°C	5°C	4°C	5°C	5°C	4°C	4°C	3°C	4°C	5°C	4°C	5°C	X	4°C	4°C	X	8:50	AS		
Sat 2	2°C	2°C	3°C	4°C	3°C	3°C	3°C	4°C	4°C	3°C	7°C	4°C	5°C	5°C	3°C	3°C	5°C	3°C	3°C	X	4°C	3°C	X	8:00	CAY	#17 decrease	[illegible]
Sun 3	2°C	3°C	4°C	3°C	0°C	1°C	15°C	6°C	5°C	4°C	4°C	3°C	3°C	0°C	4°C	3°C	4°C	3°C	5°C	X	6°C	5°C	X	7:00	CAY	#15 [illegible]	
Mon 4	3°C	2°C	4°C	2°C	-1°C	0°C	13°C	5°C	5°C	3°C	4°C	3°C	3°C	2°C	4°C	4°C	5°C	3°C	4°C	X	6°C	4°C	X	8:30	AS	Adj #16	
Tue 5	2°C	2°C	4°C	1°C	6°C	5°C	12°C	5°C	5°C	3°C	4°C	3°C	4°C	3°C	3°C	3°C	5°C	4°C	4°C	X	6°C	4°C	X	8:30	AS		
Wed 6	2°C	2°C	4°C	2°C	1°C	1°C	12°C	5°C	5°C	2°C	6°C	5°C	6°C	6°C	3°C	4°C	5°C	4°C	4°C	X	6°C	4°C	X	8:45	AS	Adj #4→16	[illegible]
Thu 7	2°C	2°C	4°C	3°C	2°C	3°C	X	5°C	5°C	2°C	3°C	4°C	6°C	6°C	3°C	4°C	4°C	3°C	4°C	X	6°C	4°C	X	8:45	AS		
Fri 8	2°C	2°C	4°C	3°C	4°C	3°C	X	5°C	5°C	3°C	6°C	3°C	5°C	5°C	3°C	4°C	4°C	4°C	4°C	X	6°C	4°C	X	8:45	AS		
Sat 9	3°C	2°C	4°C	3°C	3°C	3°C	X	5°C	5°C	3°C	5°C	3°C	4°C	3°C	4°C	10°C	3°C	4°C	3°C	X	6°C	4	X	3:30	[illegible]	Adj #17	
Sun 10	2°C	3°C	4°C	6°C	6°C	6°C	X	4°C	5°C	3°C	7°C	4°C	5°C	5°C	5°C	3°C	4°C	3°C	4°C	X	6°C	5°C	X	1:30	CAY		
Mon 11	3°C	3°	5°C	4°C	4°C	4°C	X	5°C	5°C	3°C	6°C	4°C	6°C	6°C	4°C	3°C	4°C	4°C	4°C	X	5°C	4°C	X	8:45	AS		
Tue 12	3°C	3°C	5°C	4°C	4°C	4°C	X	5°C	5°C	3°C	7°C	4°C	6°C	6°C	4°C	2°C	4°C	4°C	4°C	X	5°C	4°C	X	8:45	AS	Adj #13-15	
Wed 13																											
Thu 14																											
Fri 15																											
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Wed 27																											
Thu 28																											
Fri 29																											
Sat 30																											
Sun 31																											

1944

QAT0260

Ceimic Corporation
Sample Receiving
Refrigerator Temperature Log

Refrigerator ID

ORIGINAL IN LOGBOOK

Month: September Year: 1995

Day of Month	1	2	3	4	5	6	7	8	9	12	13	XXX	14	15	16	17	18	19	20	21	23	24	25	Time	Init.	Comments	Review By
Wed 1	3°C	2°C	4°C	6°C	6°C	5°C	5°C	4°C	5°C	5°C	4°C	5°C	4°C	3°C	4°C	2°C	5°C	3°C	3°C	X	4°C	4°C	6°C	9:30	AS	#17 [illegible]	
Thurs 2	2°C	3°C	4°C	2°C	2°C	3°C	6°C	4°C	5°C	5°C	5°C	4°C	4°C	4°C	4°C	3°C	4°C	4°C	3°C	X	4°C	4°C	6°C	8:30	AS		
Fri 3	2°C	2°C	4°C	2°C	2°C	1°C	6°C	3°C	4°C	5°C	6°C	5°C	5°C	5°C	4°C	2°C	3°C	3°C	3°C	X	4°C	4°C	6°C	8:30	AS	#1 [illegible] left [illegible]	
Sat 4	3°C	2°C	4°C	3°C	3°C	2°C	6°C	4°C	4°C	7°C	5°C	3°C	5°C	5°C	4°C	6°C	4°C	3°C	3°C	X	6°C	5°C	6°C	5:00	[illegible]	#7 left out?	
Sun 5	7°C	3°C	4°C	4°C	4°C	3°C	5°C	4°C	5°C	5°C	2°C	3°C	3°C	1°C	4°C	4°C	4°C	4°C	3°C	X	6°C	5°C	7°C	11:30	[illegible]	#5, [illegible]	
Mon 6	LABOR DAY																										
Tues 7	3°C	2°C	5°C	3°C	2°C	2°C	5°C	4°C	5°C	5°C	6°C	4°C	6°C	6°C	4°C	3°C	5°C	4°C	4°C	X	5°C	5°C	6°C	8:45	AS		
Wed 8	3°C	2°C	5°C	4°C	4°C	3°C	5°C	4°C	5°C	5°C	6°C	3°C	5°C	5°C	4°C	5°C	5°C	4°C	4°C	X	6°C	5°C	7°C	9:00	AS		
Thurs 9	3°C	2°C	5°C	5°C	5°C	4°C	6°C	5°C	5°C	6°C	4°C	3°C	4°C	3°C	4°C	3°C	5°C	4°C	3°C	X	5°C	5°C	3°C	8:00	AS	25 [illegible]	
Fri 10	3°C	2°C	5°C	5°C	5°C	4°C	6°C	4°C	5°C	6°C	4°C	3°C	3°C	3°C	4°C	3°C	5°C	6°C	4°C	X	6°C	4°C	4°C	8:40	AS		
Sat 11	4°C	2°C	4°C	3°C	3°C	2°C	5°C	4°C	4°C	7°C	5°C	4°C	3°C	1°C	4°C	4°C	4°C	4°C	3°C	X	5°C	3°C	3°C	11:45	[illegible]	[illegible]	
Sun 12																											
Mon 13	4°C	2°C	5°C	4°C	3°C	3°C	5°C	4°C	5°C	6°C	4°C	4°C	3°C	3°C	4°C	4°C	4°C	4°C	5°C	X	4°C	4°C	3°C	4:30	AS	[illegible]	
Tues 14	4°C	3°C	5°C	5°C	3°C	3°C	6°C	4°C	4°C	6°C	5°C	4°C	3°C	3°C	4°C	3°C	5°C	5°C	4°C	X	4°C	5°C	6°C	10:30	AS	[illegible]	
Wed 15	4°C	3°C	5°C	5°C	5°C	4°C	6°C	4°C	4°C	6°C	6°C	5°C	5°C	5°C	4°C	5°C	5°C	3°C	4°C	X	5°C	4°C	X	9:00	AS	#19 [illegible]	
Thurs 16	4°C	3°C	5°C	6°C	5°C	4°C	4°C	4°C	4°C	8°C	5°C	4°C	5°C	5°C	4°C	5°C	5°C	4°C	3°C	X	4°C	4°C	X	8:50	AS	[illegible]	
Fri 17	3°C	3°C	4°C	4°C	1°C	1°C	6°C	5°C	5°C	5°C	5°C	3°C	4°C	4°C	3°C	4°C	4°C	3°C	4°C	X	4°C	5°C	X	9:30	AS		
Sat 18	4°C	2°C	4°C	1°C	-1°C	-1°C	8°C	4°C	5°C	5°C	6°C	2°C	4°C	4°C	3°C	4°C	4°C	3°C	4°C	X	6°C	3°C	X	8:40	[illegible]	[illegible] 4,5,6 [illegible]	[illegible]
Sun 19	4°C	2°C	6°C	3°C	2°C	3°C	5°C	5°C	5°C	4°C	6°C	4°C	5°C	5°C	4°C	3°C	3°C	4°C	4°C	X	6°C	4°C	X	12:30	[illegible]		
Mon 20	4°C	3°C	5°C	4°C	3°C	3°C	5°C	4°C	5°C	4°C	6°C	4°C	4°C	3°C	4°C	3°C	3°C	4°C	4°C	X	6°C	4°C	X	8:30	AS		
Tues 21	4°C	3°C	5°C	3°C	3°C	3°C	6°C	4°C	5°C	5°C	6°C	4°C	5°C	5°C	4°C	3°C	5°C	4°C	5°C	X	6°C	5°C	X	8:30	AS		
Wed 22	4°C	3°C	5°C	3°C	3°C	3°C	7°C	4°C	5°C	5°C	5°C	4°C	5°C	4°C	4°C	4°C	5°C	4°C	5°C	X	6°C	5°C	X	8:30	AS		
Thurs 23	3°C	3°C	4°C	3°C	1°C	2°C	6°C	4°C	4°C	5°C	6°C	3°C	5°C	6°C	4°C	3°C	5°C	4°C	6°C	X	6°C	5°C	X	8:30	AS	adj #4-6	
Fri 24	4°C	3°C	5°C	3°C	2°C	3°C	6°C	4°C	4°C	5°C	6°C	5°C	6°C	6°C	4°C	4°C	5°C	4°C	5°C	X	5°C	3°C	X	8:30	AS		
Sat 25	3°C	2°C	4°C	3°C	2°C	3°C	2°C	3°C	4°C	3°C	7°C	4°C	6°C	5°C	4°C	3°C	3°C	4°C	4°C	X	4°C	6°C	X	12:00	[illegible]		
Sun 26	4°C	3°C	3°C	3°C	2°C	3°C	6°C	3°C	6°C	3°C	8°C	[illegible]	4°C	5°C	4°C	3°C	6°C	4°C	6°C	X	4°C	5°C	X	5:00	[illegible]	#7 [illegible]	
Mon 27	3°C	3°C	4°C	5°C	4°C	3°C	7°C	5°C	5°C	3°C	6°C	3°C	6°C	6°C	4°C	3°C	4°C	3°C	5°C	X	6°C	5°C	X	8:30	AS	#7 adj	
Tues 28	3°C	2°C	4°C	3°C	0°C	1°C	10°C	5°C	5°C	3°C	6°C	3°C	5°C	6°C	3°C	3°C	5°C	4°C	4°C	X	5°C	6°C	X	9:40	AS		
Wed 29	3°C	2°C	4°C	4°C	3°C	3°C	6°C	4°C	5°C	3°C	6°C	3°C	5°C	5°C	3°C	3°C	5°C	4°C	4°C	X	6°C	6°C	X	8:30	AS	adj #4-6	
Thurs 30	4°C	2°C	5°C	4°C	1°C	3°C	6°C	5°C	5°C	4°C	6°C	3°C	5°C	2°C	4°C	4°C	5°C	1°C	4°C	X	5°C	5°C	X	12:00	AS		
31																											

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