Appendix A

Technical Appendix

Detailed Sample Analysis and Deposition Results

Appendix Contents

A-1 Deposition Study Sample Identification Log
A-2 Nahant Meteorological Data (Surface and 850 mb Levels)
A-3 Nahant Dry Deposition Rates
A-4 Nahant Wet Deposition Results
A-5 Truro Meteorological Data (Surface and 850 mb Levels)
A-6 Truro Dry Deposition Rates
A-7 Truro Wet Deposition Results
A-8 INAA Analysis Results (Metals Only)
A-9 ICP-MS Analysis Results (Metals Only)
A-10 GC-MS Analysis Results (PAHs)
A-11 PM-10 Concentrations

Appendix A-1

Deposition Study Sample Identification Log

Sample Log Mass Bays Deposition Project

Nahant Samples

Number	Sample Dates	Metal Deposition Dry ID	Metal Deposition Wet ID	Organic Deposition Dry ID	Organic Deposition Wet ID	Dichotomous Fine ID	Dichotomous Coarse ID	Elapsed Time(hrs	Precip. (inches)
N1	07/07/92 - 07/22/9	600	800	601+	801+	004,005	303,304	360	1.11
N2	07/22/92 - 08/06/9	604	804	605+*	805+	001,002	300,301	360	0.98
N3	08/06/92 - 08/19/9	606	806	607+	807+	006	306	311.83	4.41
N4	08/19/92 - 09/02/9	609	809	N/A	N/A	008,009	309,310	336.42	0.56
N5	09/02/92 - 09/16/9	611	811	N/A	N/A	011,012	311,312	335.25	1.37
N6	09/16/92 - 09/30/9	614	814	615	815	014,016	314,317	335.25	1.87
N7	09/30/92 - 10/14/9	618	818	619	819	017,018	318,319	335.5	1.19
N8	10/14/92 - 10/27/9	623	823	624	824	020,021	320,321	311.75	0.54
N9	10/27/92 - 11/10/9	627	827	628	828	022,023	322,323	329.08	1.00
N10	11/10/92 - 11/23/9	631	831	632	832	024	324	317.42	2.74
N11	11/23/92 - 12/07/9	635	835	636	836	025	325	334.75	1.34
N12	12/07/92 - 12/22/9	639#*	839#*	640#*	840&	026	326	334.5	7.99
N13	12/22/92 - 01/06/9	643	843	644	844	027	327	381.5	1.53
N14	01/06/93 - 01/20/9	647	847	648	848	028	328	333.58	0.50
N15	01/20/93 - 02/02/9	651	851	652	852	029	329	311.5	0.46
N16	02/02/93 - 02/15/9	655	855	656	856	030	330	307.17	2.39
N17	02/15/93 - 03/02/9	659	859	660	860	031	331	360.58	1.54
N18	03/02/93 - 03/16/9	663	863	664	864	032	332	336.5	0.77
N19	03/16/93 - 03/30/9	667	867	668	868	033	333	337	3.39
N20	03/30/93 - 04/14/9	671	871	672	872	034	334	359.5	1.82
N21	04/14/93 - 04/27/9	675	875	676	876	035	335	313.92	2.12
N22	04/27/93 - 05/13/9	679	879	680	880	036	336	382.17	0.12
N23	05/13/93 - 05/26/9	683	883	684	884	037	337	311.58	0.57
N24	05/26/93 - 06/09/9	687	887	688	888	038	338	337.75	1.18
N25	06/09/93 - 06/23/9	691	891@	692	892	039	339	334.25	0.64
N26	06/23/93 - 07/07/9	695	891@	696	896	040	340	339.75	0.09
N27	07/07/93 - 07/22/9	699	899	700	900	042,043	342,343	354.08	0.33
N28	07/22/93 - 08/04/9	701	901	702	902	044	344	314.75	1.03
N29	08/04/93 - 08/18/9	703	903	704	904	045,046	345,346	334.33	0.58
N30	08/18/93 - 09/01/9	707	907	708	908	047	347	335.58	0.34
N31	09/01/93 - 09/14/9	711	911	712	912	049	349	313.17	1.55

(+) - Duplicate metals sample.
(*) - Sample was not analyzed.
(#) - Sample destroyed [(&)-Damaged] by storm.
(@) - Sample 891 was exposed for 674.75 hours.

Key to Sample ID Numbers

(001 - 299) - Dichot Particle Sample (Fine)
(300 - 599) - Dichot Particle Sample (Coarse)
(600 - 799) - Dry Deposition Sample
(800 - 999) - Wet Deposition Sample

Sample Log Mass Bays Deposition Project

Truro Samples

Number	Sample Dates	Metal Deposition Dry ID	Metal Deposition Wet ID	Organic Deposition Dry ID	Organic Deposition Wet ID	Elapsed Time(hrs	Precip. (inches)
T1	07/17/92 - 08/12/9	602*	802	603+	803+*	622.25	4.20
T2	08/12/92 - 09/01/9	608	808	N/A	N/A	480	3.65
T3	09/01/92 - 09/15/9	610*	810*	N/A	N/A	336	1.36
T4	09/15/92 - 09/29/9	612	812	613	813	336	2.19
T5	09/29/92 - 10/13/9	616	816	617	817	334.5	1.47
T6	10/13/92 - 10/27/9	620	820	621	821	336	0.84
T7	10/27/92 - 11/10/9	625	825	626	826	336	1.04
T8	11/10/92 - 11/24/9	629	829	630	830	336	2.89
T9	11/24/92 - 12/08/9	634	834	633	833	331	1.55
T10	12/08/92 - 12/24/9	637&	837&	638&	838&	384	2.45
T11	12/24/92 - 01/07/9	641	841	642	842	336	2.10
T12	01/07/93 - 01/21/9	645	845	646	846	336	1.24
T13	01/21/93 - 02/04/9	649	849	650	850	336	0.96
T14	02/04/93 - 02/20/9	653	853	654	854	384	2.68
T15	02/20/93 - 03/03/9	657	857	658	858	264	0.64
T16	03/03/93 - 03/20/9	661	861	662	862	408	3.68
T17	03/20/93 - 04/08/9	665	865	666	866	456	4.70
T18	04/08/93 - 04/29/9	669	869	670	870	505	3.80
T19	04/29/93 - 05/25/9	673	873	674	874	622.75	2.03
T20	05/25/93 - 06/09/9	677	877	678	878	359	1.22
T21	06/09/93 - 07/01/9	681	881	682	882	528.5	0.47
T22	07/01/93 - 07/15/9	685	885	--	--	336	1.07
	07/01/93 - 07/23/9	--	--	686	886	533.25	1.60
T23	07/15/93 - 07/28/9	689	889	--	--	312	1.08
	07/23/93 - 08/08/9	--	--	690	890	380	0.75
T24	07/28/93 - 08/08/9	693	893	--	--	265	0.31
T25	08/08/93 - 08/21/9	697	897	698	898	310.75	0.17
T26	08/21/93 - 09/01/9	705	905	706	906	264	0.04
T27	09/01/93 - 09/17/9	709	909	710	910	384	2.22

(+) - Duplicate metals sample.
(*) - Sample was not analyzed.
(&) - Sample damaged by storm.

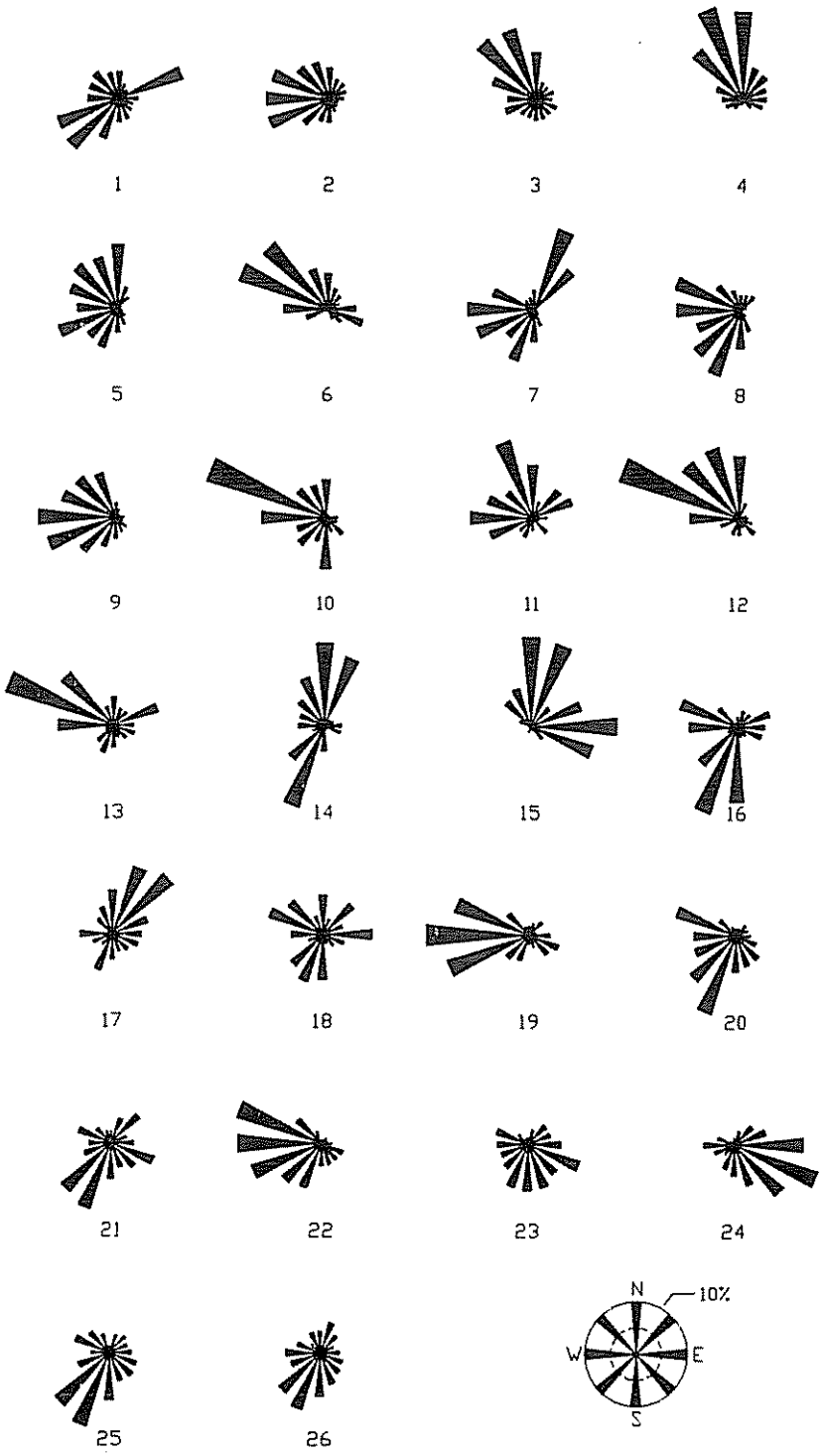
Key to Sample ID Numbers

(600 - 799) - Dry Deposition Sample
(800 - 999) - Wet Deposition Sample

Appendix A-2

Nahant Meteorological Data (Surface and 850 mb Levels)

TRURO " " "

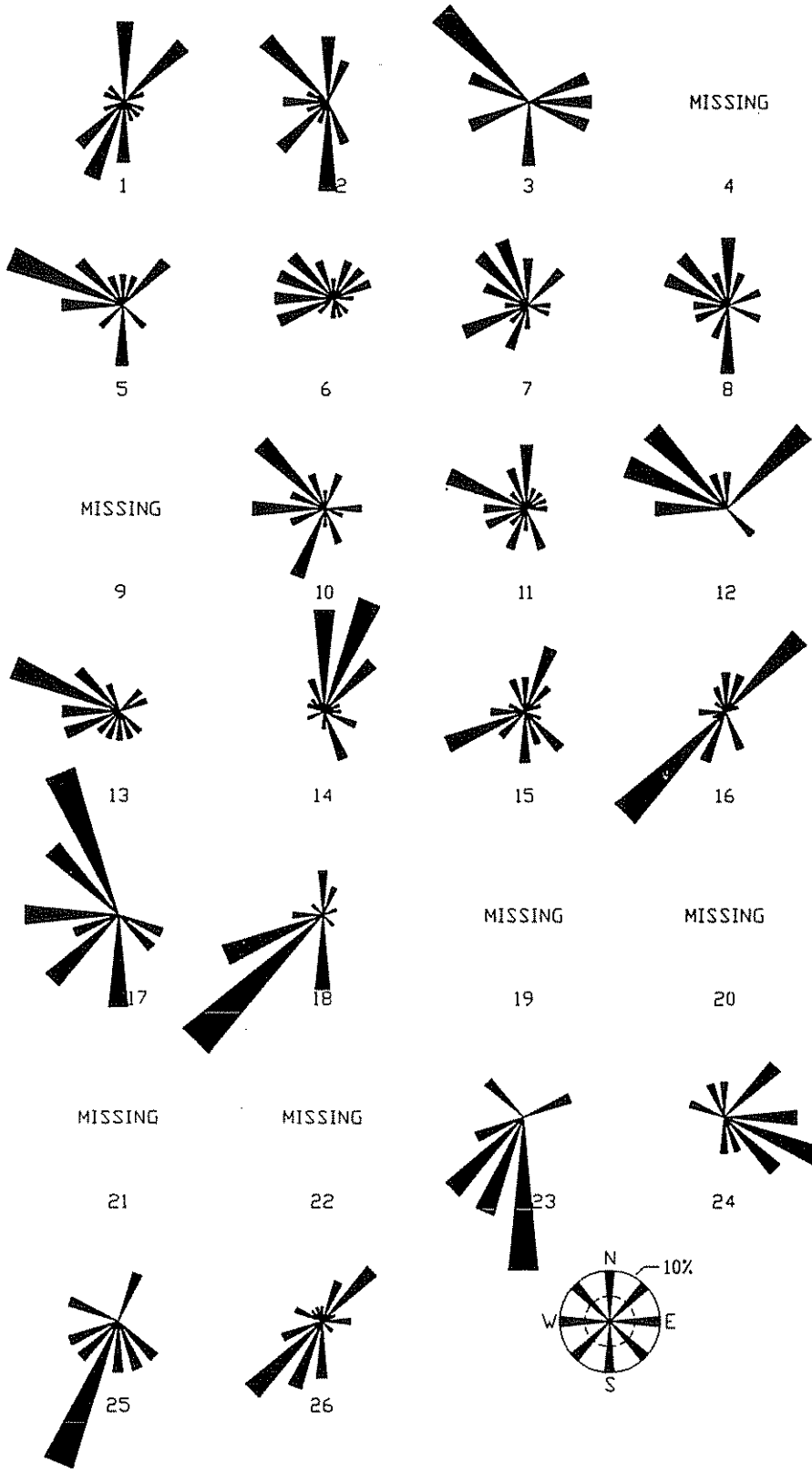


NAHANT SURFACE

1	09/16/92 - 09/30/92
2	09/30/92 - 10/14/92
3	10/14/92 - 10/27/92
4	10/27/92 - 11/10/92
5	11/10/92 - 11/23/92
6	11/23/92 - 12/07/92
7	12/07/92 - 12/21/92
8	12/21/92 - 01/06/93
9	01/06/93 - 01/20/93
10	01/20/93 - 02/02/93
11	02/02/93 - 02/15/93
12	02/15/93 - 03/02/93
13	03/02/93 - 03/16/93
14	03/16/93 - 03/30/93
15	03/30/93 - 04/14/93
16	04/14/93 - 04/27/93
17	04/27/93 - 05/13/93
18	05/13/93 - 05/26/93
19	05/26/93 - 06/09/93
20	06/09/93 - 06/23/93
21	06/23/93 - 07/07/93
22	07/07/93 - 07/22/93
23	07/22/93 - 08/04/93
24	08/04/93 - 08/18/93
25	08/18/93 - 09/01/93
26	09/01/93 - 09/14/93

Surface wind roses for biweekly sampling periods at Nahant. Length of arms indicates the percent of time winds blew *from* a particular 22.5° wind sector. Scale in bottom right.

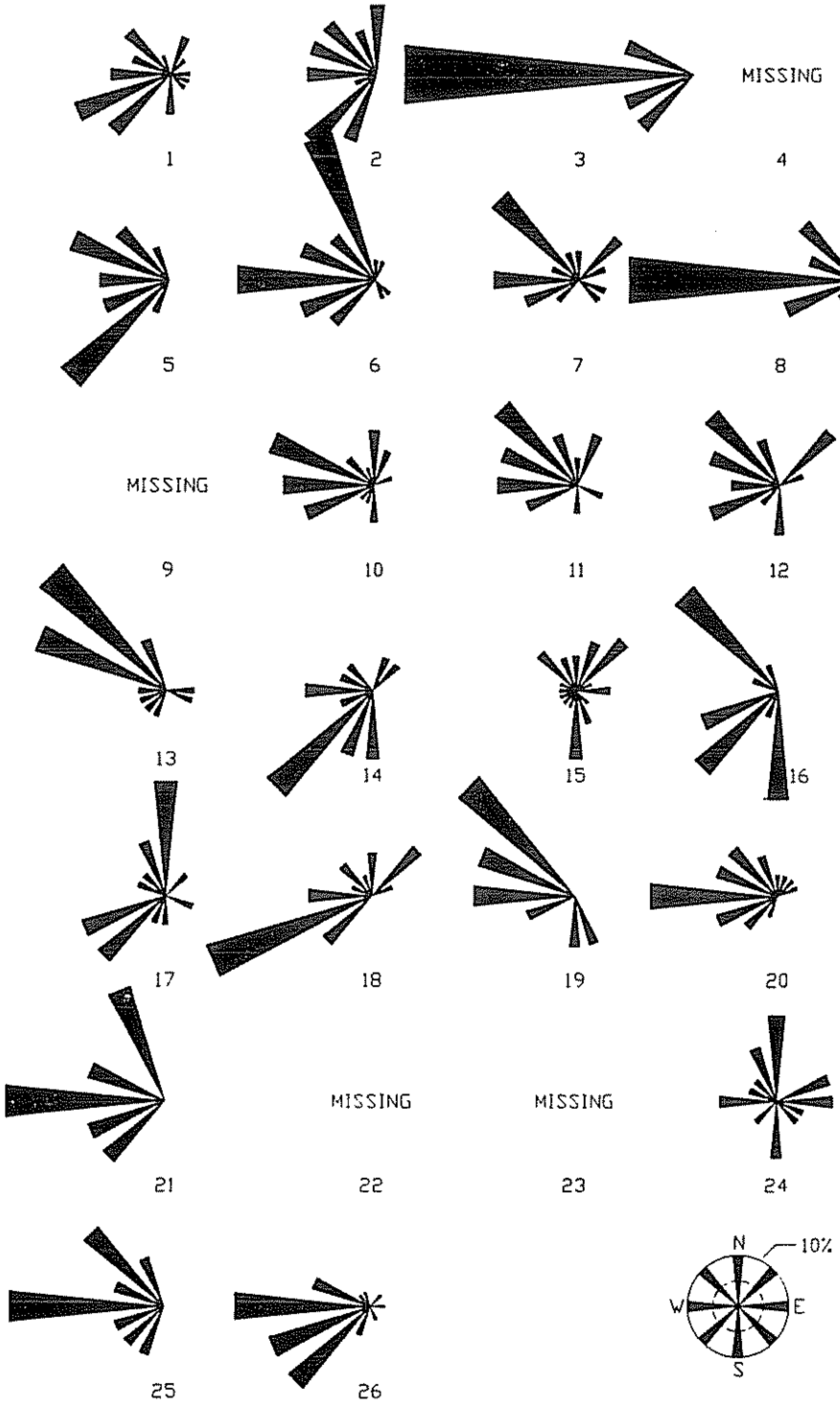
A-2.2



TRURO SURFACE

1	09/15/92 - 09/29/92
2	09/29/92 - 10/13/92
3	10/13/92 - 10/27/92
4	10/27/92 - 11/10/92
5	11/10/92 - 11/24/92
6	11/24/92 - 12/08/92
7	12/08/92 - 12/24/92
8	12/24/92 - 01/07/93
9	01/07/93 - 01/21/93
10	01/21/93 - 02/04/93
11	02/04/93 - 02/20/93
12	02/20/93 - 03/03/93
13	03/03/93 - 03/20/93
14	03/20/93 - 04/08/93
15	04/08/93 - 04/29/93
16	04/29/93 - 05/25/93
17	05/25/93 - 06/09/93
18	06/09/93 - 07/01/93
19	07/01/93 - 07/23/93
20	07/15/93 - 07/28/93
21	07/23/93 - 07/28/93
22	07/23/93 - 08/08/93
23	07/28/93 - 08/08/93
24	08/08/93 - 08/21/93
25	08/21/93 - 09/01/93
26	09/01/93 - 09/17/93

Surface wind roses for biweekly sampling periods at Wellfleet (5 km from Truro).

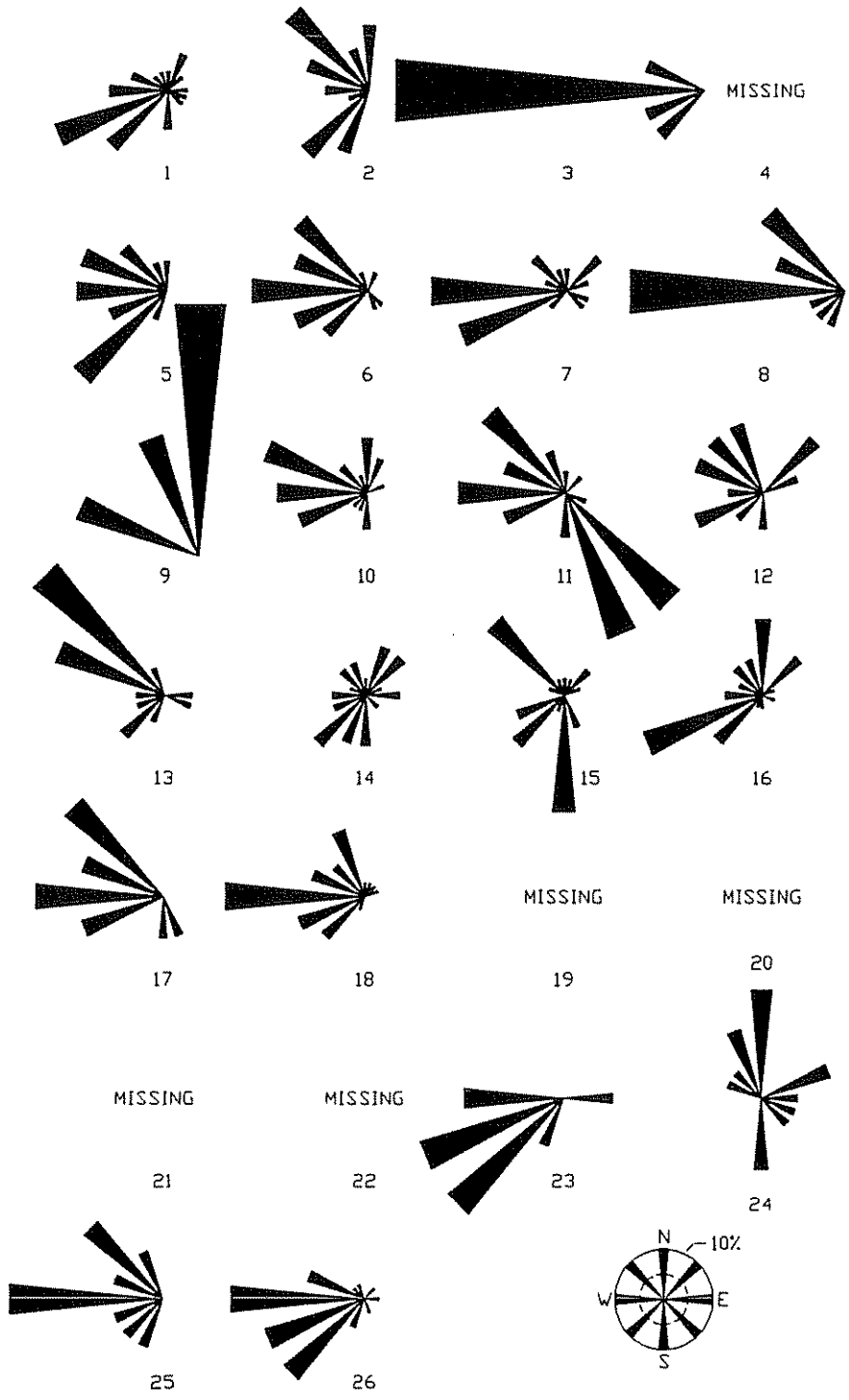


NAHANT 850 mb

1	09/16/92 - 09/30/92
2	09/30/92 - 10/14/92
3	10/14/92 - 10/27/92
4	10/27/92 - 11/10/92
5	11/10/92 - 11/23/92
6	11/23/92 - 12/07/92
7	12/07/92 - 12/21/92
8	12/21/92 - 01/06/93
9	01/06/93 - 01/20/93
10	01/20/93 - 02/02/93
11	02/02/93 - 02/15/93
12	02/15/93 - 03/02/93
13	03/02/93 - 03/16/93
14	03/16/93 - 03/30/93
15	03/30/93 - 04/14/93
16	04/14/93 - 04/27/93
17	04/27/93 - 05/13/93
18	05/13/93 - 05/26/93
19	05/26/93 - 06/09/93
20	06/09/93 - 06/23/93
21	06/23/93 - 07/07/93
22	07/07/93 - 07/22/93
23	07/22/93 - 08/04/93
24	08/04/93 - 08/18/93
25	08/18/93 - 09/01/93
26	09/01/93 - 09/14/93

Upper air (850 mb) wind roses for biweekly sampling periods at Nahant. Interpolated from data taken at NWS stations in Chatham, Cape Cod, Albany, NY, and Portland, ME.

A-2.4



TRURO 850 mb

1	09/15/92 - 09/29/92
2	09/29/92 - 10/13/92
3	10/13/92 - 10/27/92
4	10/27/92 - 11/10/92
5	11/10/92 - 11/24/92
6	11/24/92 - 12/08/92
7	12/08/92 - 12/24/92
8	12/24/92 - 01/07/93
9	01/07/93 - 01/21/93
10	01/21/93 - 02/04/93
11	02/04/93 - 02/20/93
12	02/20/93 - 03/03/93
13	03/03/93 - 03/20/93
14	03/20/93 - 04/08/93
15	04/08/93 - 04/29/93
16	04/29/93 - 05/25/93
17	05/25/93 - 06/09/93
18	06/09/93 - 07/01/93
19	07/01/93 - 07/23/93
20	07/15/93 - 07/28/93
21	07/23/93 - 07/28/93
22	07/23/93 - 08/08/93
23	07/28/93 - 08/08/93
24	08/08/93 - 08/21/93
25	08/21/93 - 09/01/93
26	09/01/93 - 09/17/93

Upper air (850 mb) wind roses for biweekly sampling periods at Truro. Data taken at NWS station in Chatham, Cape Cod.

FALL WINTER SPRING SUMMER

NAHANT

SURFACE

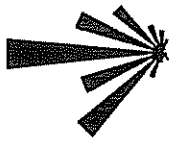
22.6

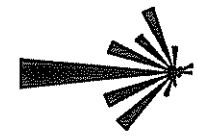
44.6

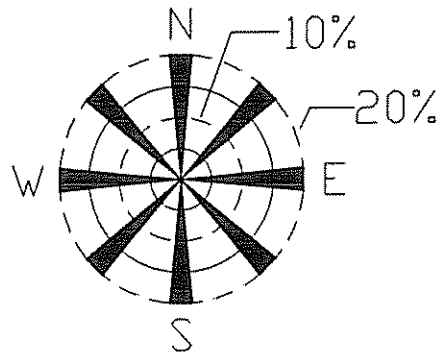
27.7

10.0

850 mb







PCPN (CM)

TRURO

SURFACE

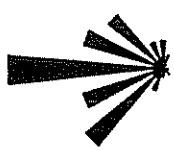
21.8

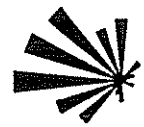
43.0

27.6

14.3

850 mb





Seasonal surface and upper air wind roses for Nahant and Truro. Precipitation depths under wind roses.

Appendix A-3

Nahant Dry Deposition Rates

Appendix Order:

- INAA (Insoluble Metals Only)
- ICP-MS (Soluble Metals Only)
- ICP-MS (Wall Desorbed Metals Only)
- GC-MS (PAHs Only)

Nahant **Deposition Rates [ng/m2-hr]**

Sample ID	600	601	604	605	606	607	609	611	614	618
Start Date	7/7/92	7/7/92	7/22/92	7/22/92	8/6/92	8/6/92	8/19/92	9/2/92	9/16/92	9/30/92
Time (hrs)	360	360	360	360	311.833	311.833	336.42	335.25	335.667	335.5
Precip. (in	1.11	1.11	0.98	0.98	4.41	4.41	0.56	1.37	1.87	1.19
				missing						
Fe	8.5E+03	1.4E+04	3.1E+03		6.8E+03	1.6E+04	1.8E+04	4.4E+03	3.9E+03	1.0E+04
Na	2.6E+03	1.7E+03	6.2E+02		7.0E+03	6.5E+03	8.2E+03	1.6E+03	1.5E+03	3.8E+03
K	ND	ND	ND		ND	ND	ND	ND	1.9E+03	ND
Cs	5.2E-01	1.2E+00	ND		ND	1.8E+00	1.4E+00	6.0E-01	ND	ND
Sc	2.0E+00	4.0E+00	4.7E-01		1.7E+00	4.6E+00	4.6E+00	1.2E+00	8.0E-01	2.4E+00
Cr	3.5E+01	6.5E+01	1.6E+01		6.1E+01	8.4E+01	1.0E+02	2.0E+01	3.9E+01	4.2E+01
Co	2.0E+00	4.8E+00	1.1E+00		8.0E+00	5.2E+00	6.6E+00	8.1E-01	1.7E+00	3.6E+00
Zn	8.5E+01	4.7E+01	2.2E+02		1.1E+01	5.5E+01	ND	3.7E+01	3.7E+01	8.9E+01
Ag	ND	2.9E+01	8.1E-01		2.6E+00	5.8E+00	5.3E+00	ND	5.0E-01	ND
Ga	ND	ND	ND		ND	ND	ND	ND	ND	ND
As	ND	ND	ND		ND	ND	6.3E+00	ND	7.3E-01	ND
Sb	4.3E+00	2.0E+00	5.1E-01		1.0E+00	1.5E+00	4.9E+00	7.2E-01	5.7E-01	4.5E+00
Se	7.8E-01	2.7E+00	8.7E-01		1.3E+00	3.6E+00	8.3E-01	ND	3.5E-01	ND
Br	8.4E+01	ND	ND		ND	ND	ND	ND	ND	ND
La	8.3E+00	1.3E+01	2.5E+00		1.2E+01	2.7E+01	1.8E+01	5.8E+00	3.8E+00	9.9E+00
Ce	2.0E+01	2.8E+01	4.0E+00		2.6E+01	5.2E+01	3.9E+01	1.0E+01	6.0E+00	9.1E+00
Nd	7.9E+00	8.5E+00	3.8E+00		7.1E+00	1.2E+01	1.9E+01	5.6E+00	2.3E+00	ND
Sm	1.6E+00	5.0E+00	4.1E-01		1.4E+00	3.4E+00	2.9E+00	6.9E-01	7.1E-01	1.6E+00
Eu	2.5E-01	4.3E-01	7.8E-02		2.8E-01	7.0E-01	6.9E-01	1.4E-01	1.3E-01	3.8E-01
Gd	ND	2.2E+00	ND		ND	2.9E+00	2.5E+00	ND	ND	ND
Tb	1.1E-01	3.4E-01	2.2E-02		1.6E-01	6.3E-01	3.8E-01	9.3E-02	8.4E-02	6.5E-02
Tm	ND	1.9E-01	ND		1.4E-01	1.3E-01	ND	ND	6.5E-02	ND
Yb	3.0E-01	5.2E-01	2.2E-02		2.7E-01	1.1E+00	9.3E-01	5.6E-02	1.7E-01	1.7E-01
Lu	ND	ND	ND		ND	ND	2.4E-01	ND	ND	ND
Zr	2.9E+02	ND	ND		ND	ND	4.1E+02	ND	ND	ND
Hf	2.1E-01	3.9E-01	9.1E-02		2.9E-01	7.7E-01	6.8E-01	1.2E-01	1.2E-01	2.0E-01
Ta	3.6E-01	7.8E-01	1.1E-01		4.2E-01	1.4E+00	9.1E-01	2.0E-01	2.8E-01	5.1E-01
W	ND	ND	ND		ND	ND	ND	ND	ND	ND
Ir	ND	8.7E-03	ND		ND	ND	ND	ND	ND	ND
Th	2.0E+00	3.4E+00	1.1E+00		2.0E+00	3.6E+00	3.5E+00	1.2E+00	1.0E+00	1.9E+00
U	7.5E-01	8.7E-01	ND		ND	ND	1.8E+00	ND	ND	ND
Rb	ND	ND	ND		ND	2.3E+01	ND	ND	ND	ND

Dry Deposition Samples (INAA)

Nahant **Deposition Rates [ng/m2-hr]**

Sample ID	623	627	631	635	639	643	647	651	655	659
Start Date	10/14/92	10/27/92	11/10/92	11/23/92	12/7/92	12/21/92	1/6/93	1/20/93	2/2/93	2/15/93
Time (hrs)	311.75	329.08	317.42	334.75	334.5	381.5	333.58	311.5	307.17	360.58
Precip. (in	0.54	1	2.74	1.34	7.99	1.53	0.5	0.46	2.39	1.54
					Destroyed					
Fe	7.8E+03	5.4E+03	7.5E+03	8.5E+03		1.8E+04	1.0E+04	8.1E+03	1.5E+04	1.1E+04
Na	2.4E+03	2.1E+03	2.5E+03	3.6E+03		7.6E+03	4.5E+03	2.0E+03	6.6E+03	4.3E+03
K	ND	2.2E+03	ND	ND		ND	7.3E+03	ND	ND	7.1E+03
Cs	ND	ND	3.8E-01	ND		1.6E+00	1.7E+00	ND	1.4E+00	1.5E+00
Sc	1.8E+00	1.2E+00	2.1E+00	2.0E+00		4.9E+00	2.5E+00	1.7E+00	3.7E+00	2.8E+00
Cr	1.0E+02	2.1E+01	4.8E+01	3.7E+01		6.2E+01	3.7E+01	2.9E+01	5.9E+01	4.7E+01
Co	3.9E+00	2.2E+00	2.6E+00	4.4E+00		9.3E+00	4.4E+00	1.8E+00	5.3E+00	4.6E+00
Zn	1.6E+02	1.0E+02	5.6E+01	8.0E+01		7.3E+01	5.9E+01	6.5E+01	8.1E+01	6.4E+01
Ag	1.4E+00	ND	2.5E+00	ND		ND	ND	ND	ND	ND
Ga	ND	ND	ND	ND		ND	ND	ND	ND	ND
As	ND	ND	ND	ND		5.5E+00	ND	ND	7.2E+00	3.4E+00
Sb	1.8E+00	1.3E+00	2.5E+00	4.7E+00		4.6E+00	3.5E+00	4.9E+00	2.1E+00	5.7E+00
Se	7.5E-01	ND	1.2E+00	1.5E+00		1.9E+00	ND	4.3E+00	1.0E+00	1.4E+00
Br	ND	ND	ND	ND		ND	ND	ND	ND	ND
La	8.6E+00	6.5E+00	1.9E+01	1.4E+01		2.4E+01	2.0E+01	9.2E+00	1.5E+01	1.5E+01
Ce	1.4E+01	1.1E+01	3.8E+01	2.2E+01		3.3E+01	ND	1.6E+01	3.1E+01	ND
Nd	2.7E+00	3.4E+00	1.5E+01	7.7E+00		1.7E+01	ND	ND	1.2E+01	ND
Sm	2.5E+00	9.7E-01	1.1E+00	1.4E+00		2.8E+00	1.5E+00	1.3E+00	2.7E+00	2.1E+00
Eu	3.1E-01	1.3E-01	3.0E-01	3.0E-01		7.2E-01	4.8E-01	3.3E-01	5.8E-01	5.0E-01
Gd	ND	ND	ND	ND		2.4E+00	ND	ND	ND	ND
Tb	5.0E-02	9.0E-02	1.6E-01	2.1E-01		4.0E-01	ND	1.3E-01	3.8E-01	ND
Tm	ND	ND	ND	ND		ND	ND	ND	ND	ND
Yb	3.6E-01	1.1E-01	3.1E-01	1.9E-01		1.0E+00	3.7E-01	2.8E-01	7.3E-01	3.1E-01
Lu	ND	ND	ND	ND		1.6E-01	ND	ND	ND	ND
Zr	ND	ND	ND	4.4E+02		ND	ND	ND	ND	6.1E+02
Hf	2.1E-01	1.7E-01	3.9E-01	2.0E-01		8.2E-01	ND	6.8E-01	1.1E+00	ND
Ta	3.5E-01	2.2E-01	2.5E-01	3.4E-01		5.9E+00	9.4E-01	3.8E-01	6.3E-01	ND
W	ND	ND	ND	ND		1.0E+00	ND	ND	ND	ND
Ir	1.0E-01	ND	ND	ND		ND	ND	ND	ND	ND
Th	1.1E+00	1.2E+00	1.8E+00	1.7E+00		4.1E+00	1.9E+00	2.0E+00	3.6E+00	2.2E+00
U	ND	ND	ND	ND		1.3E+00	ND	ND	2.4E+00	ND
Rb	ND	ND	ND	ND		ND	ND	ND	ND	5.4E+01

Nahant Deposition Rates [ng/m2-hr]

Sample ID	663	667	671	675	679	683	687	691	695	699
Start Date	3/2/93	3/16/93	3/30/93	4/14/93	4/27/93	5/13/93	5/26/93	6/9/93	6/23/93	7/7/93
Time (hrs)	336.5	337	359.5	313.92	382.17	311.58	337.75	334.25	339.75	354.08
Precip. (in	0.77	3.39	1.82	2.12	0.12	0.57	1.18	0.32	0.26	0.33
Fe	1.3E+04	5.2E+03	4.3E+03	2.3E+04	2.2E+04	3.6E+04	2.3E+04	3.4E+04	1.8E+04	3.0E+04
Na	5.4E+03	2.0E+03	2.0E+03	1.0E+04	9.5E+03	1.6E+04	1.1E+04	1.5E+04	7.6E+03	1.3E+04
K	7.5E+03	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cs	8.5E-01	5.6E-01	ND	ND	2.8E+00	4.1E+00	2.3E+00	2.9E+00	1.2E+00	3.1E+00
Sc	3.2E+00	1.2E+00	1.3E+00	6.1E+00	5.6E+00	1.0E+01	6.8E+00	9.1E+00	4.6E+00	8.4E+00
Cr	5.2E+01	2.7E+01	3.4E+01	8.5E+01	6.3E+01	1.1E+02	6.8E+01	1.2E+02	5.2E+01	8.3E+01
Co	3.3E+00	1.7E+00	1.4E+00	5.5E+00	7.3E+00	1.6E+01	6.4E+00	1.4E+01	6.5E+00	9.1E+00
Zn	4.7E+01	1.3E+01	3.6E+01	1.1E+02	1.4E+02	3.1E+02	4.6E+01	2.0E+02	3.5E+02	1.4E+02
Ag	3.0E+00	ND	ND	8.3E+00	ND	ND	4.4E+00	2.5E+00	4.6E+00	ND
Ga	5.2E+00	ND	ND	ND	ND	ND	9.8E+00	9.2E+00	ND	ND
As	2.6E+00	1.6E+00	ND	ND	9.8E+00	1.0E+01	ND	1.1E+01	8.2E+00	9.8E+00
Sb	7.4E+00	1.5E+00	1.3E+00	5.8E+00	3.7E+00	5.8E+00	3.4E+00	5.8E+00	6.2E+00	4.7E+00
Se	2.4E+00	6.3E-01	ND	2.6E+00	5.2E-01	1.5E+00	1.2E+00	2.3E+00	ND	ND
Br	7.0E+01	ND	ND	ND	ND	ND	ND	ND	ND	ND
La	1.5E+01	5.1E+00	4.2E+00	2.4E+01	2.3E+01	3.5E+01	2.1E+01	3.3E+01	1.7E+01	3.1E+01
Ce	2.9E+01	6.9E+00	7.4E+00	3.9E+01	4.8E+01	7.0E+01	4.5E+01	7.4E+01	3.6E+01	6.9E+01
Nd	1.0E+01	4.6E+00	ND	1.5E+01	2.6E+01	2.6E+01	1.7E+01	3.3E+01	1.7E+01	2.8E+01
Sm	2.3E+00	6.7E-01	8.5E-01	3.3E+00	6.1E+00	6.6E+00	4.2E+00	6.4E+00	4.5E+00	5.5E+00
Eu	4.9E-01	1.9E-01	1.4E-01	7.0E-01	9.1E-01	1.6E+00	9.0E-01	1.4E+00	6.7E-01	1.2E+00
Gd	ND	ND	ND	ND	ND	4.2E+00	ND	ND	ND	ND
Tb	3.4E-01	1.9E-01	2.0E-01	4.6E-01	6.4E-01	9.5E-01	5.3E-01	9.7E-01	4.5E-01	7.6E-01
Tm	ND	ND	ND	ND	ND	ND	ND	3.7E-01	ND	ND
Yb	5.7E-01	7.9E-02	2.6E-01	1.7E+00	1.8E+00	3.0E+00	1.3E+00	2.2E+00	1.7E+00	2.5E+00
Lu	6.0E-02	ND	ND	ND	2.8E-01	3.5E-01	1.8E-01	2.8E-01	2.6E-01	ND
Zr	ND	ND	ND	ND	ND	ND	ND	3.6E+02	ND	ND
Hf	5.6E-01	1.9E-01	3.1E-01	1.8E+00	1.1E+00	2.3E+00	1.6E+00	2.0E+00	9.8E-01	2.4E+00
Ta	3.7E-01	1.7E-01	3.9E-01	9.3E-01	5.8E-01	1.4E+00	2.5E+00	2.0E+00	6.7E-01	1.4E+00
W	3.0E+00	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ir	ND	ND	ND	ND	2.2E-01	2.2E-01	2.1E-01	ND	ND	ND
Th	2.4E+00	9.3E-01	9.4E-01	5.3E+00	5.7E+00	8.0E+00	5.8E+00	1.0E+01	4.1E+00	8.4E+00
U	1.1E+00	4.1E-01	ND	1.9E+00	2.8E+00	3.5E+00	2.1E+00	2.7E+00	1.6E+00	3.1E+00
Rb	3.9E+01	ND	ND	ND	ND	ND	6.5E+01	5.2E+01	ND	ND

Dry Deposition Samples (INAA)

Nahant **Deposition Rates [ng/m2-hr]**

Sample ID	701	703	707	711
Start Date	7/22/93	8/4/93	8/18/93	9/1/93
Time (hrs)	314.75	334.33	335.58	313.17
Precip. (in	1.03	0.58	0.34	1.55
Fe	1.0E+04	6.5E+03	2.4E+04	8.2E+03
Na	5.5E+03	2.8E+03	9.2E+03	3.2E+03
K	ND	ND	ND	ND
Cs	6.1E-01	ND	1.6E+00	ND
Sc	2.5E+00	1.8E+00	6.2E+00	2.0E+00
Cr	4.7E+01	3.3E+01	7.8E+01	4.3E+01
Co	6.7E+00	2.3E+00	1.2E+01	4.3E+00
Zn	1.4E+02	1.3E+01	3.1E+02	1.9E+02
Ag	ND	ND	6.3E+00	2.1E+00
Ga	ND	ND	ND	ND
As	4.0E+00	ND	5.8E+00	1.5E+00
Sb	3.5E+00	1.2E+00	5.3E+00	1.6E+00
Se	ND	ND	5.4E-01	ND
Br	ND	ND	ND	ND
La	1.4E+01	6.6E+00	2.9E+01	1.1E+01
Ce	3.2E+01	1.2E+01	5.5E+01	1.9E+01
Nd	1.1E+01	ND	2.6E+01	ND
Sm	1.8E+00	1.5E+00	4.4E+00	1.3E+00
Eu	3.8E-01	2.3E-01	8.4E-01	3.4E-01
Gd	ND	ND	ND	ND
Tb	2.7E-01	2.0E-01	5.4E-01	1.2E-01
Tm	5.5E-01	ND	ND	ND
Yb	ND	3.8E-01	2.0E+00	4.8E-01
Lu	ND	ND	2.9E-01	ND
Zr	ND	ND	ND	7.2E+01
Hf	7.4E-01	4.5E-01	1.3E+00	3.8E-01
Ta	6.9E-01	2.3E-01	8.2E-01	2.5E-01
W	ND	ND	ND	ND
Ir	ND	8.4E-02	ND	ND
Th	2.5E+00	1.7E+00	4.9E+00	1.6E+00
U	1.6E+00	ND	1.9E+00	ND
Rb	ND	ND	ND	ND

Dry Annual Deposition Rates (ug/m2-year
Nahant
118264
50524
7554
8
31
483
46
957
13
7
26
31
8
45
134
240
93
22
5
3
3
0
7
1
634
6
7
1
0
28
8
61

Dry Deposition Samples, Soluble Fraction (ICP-MS)

Nahant Deposition Rates [ng/m2-period]

Sample ID	600	601	604	605	606	607	609	611	614
Start Date	7/7/92	7/7/92	7/22/92	7/22/92	8/6/92	8/6/92	8/19/92	9/2/92	9/16/92
Time (hrs)	360	360	360	360	311.833	311.833	336.42	335.25	335.667
Soluble Fraction									
Volume (l)	4.09567	4.4868	missing	1.43547	1.52399	0.88335	0.1668	0.97346	1.24481
Cr (sol)	ND	ND		4.5E+03	ND	2.3E+03	1.1E+03	3.5E+03	7.1E+03
Mn (sol)	1.5E+05	1.2E+05		5.4E+04	2.3E+04	2.4E+04	4.6E+04	2.5E+04	6.8E+04
Co (sol)	2.0E+03	ND		ND	ND	ND	ND	ND	ND
Ni (sol)	4.8E+04	1.1E+05		2.5E+04	1.9E+04	4.7E+04	1.2E+04	1.4E+04	1.6E+04
Cu (sol)	5.6E+04	6.7E+04		5.5E+04	2.9E+04	3.5E+04	1.8E+04	2.7E+04	1.9E+04
Zn (sol)	3.2E+05	3.1E+05		2.1E+05	1.7E+05	1.5E+05	1.3E+05	1.2E+05	1.1E+05
Cd (sol)	6.7E+03	4.9E+03		8.1E+02	ND	3.6E+03	2.1E+03	ND	ND
Pb (sol)	1.1E+05	6.6E+04		3.4E+04	1.4E+04	ND	9.5E+03	2.3E+04	4.7E+03
Fe (sol)	ND	3.4E+05		2.0E+05	1.1E+05	1.5E+03	7.4E+04	8.3E+04	2.9E+04
Al (sol)	1.4E+06	8.3E+05		4.2E+05	1.7E+05	8.4E+04	1.3E+05	3.5E+05	1.1E+05

Dry Deposition Samples, Soluble Fraction (ICP-MS)

Nahant Deposition Rates [ng/m2-period]

Sample ID	618	623	627	631	635	639	643	647	651
Start Date	9/30/92	10/14/92	10/27/92	11/10/92	11/23/92	12/7/92	12/21/92	1/6/93	1/20/93
Time (hrs)	335.5	311.75	329.08	317.42	334.75	334.5	381.5	333.58	311.5
Soluble Fraction									
Volume (l)	0.97087	1.80315	0.28473	1.37347	0.60055	Destroye	0.31208	1.63297	1.7591
Cr (sol)	ND	6.3E+03	ND	6.3E+03	3.8E+03		ND	8.0E+03	ND
Mn (sol)	1.5E+05	3.2E+05	1.2E+04	4.4E+04	9.3E+04		6.0E+04	4.7E+04	4.1E+04
Co (sol)	ND	ND	ND	ND	ND		6.1E+02	ND	ND
Ni (sol)	2.3E+04	2.8E+04	2.6E+04	3.5E+04	4.2E+04		3.6E+04	5.2E+04	1.1E+04
Cu (sol)	2.4E+04	2.3E+04	2.0E+04	3.4E+04	5.4E+04		2.7E+04	4.7E+04	1.1E+04
Zn (sol)	1.7E+05	1.2E+05	9.4E+04	1.3E+05	5.3E+05		1.4E+05	1.5E+05	1.0E+05
Cd (sol)	ND	ND	ND	ND	7.9E+03		ND	2.0E+03	4.7E+02
Pb (sol)	1.4E+04	4.7E+03	8.2E+03	2.7E+04	3.4E+04		3.5E+04	6.3E+04	1.1E+04
Fe (sol)	4.4E+05	ND	1.8E+03	ND	1.8E+05		1.4E+05	5.0E+05	ND
Al (sol)	4.7E+05	1.6E+04	9.9E+04	4.0E+05	2.6E+05		3.5E+05	7.3E+05	1.7E+05

Dry Deposition Samples, Soluble Fraction (ICP-MS)

Nahant Deposition Rates [ng/m2-period]

Sample ID	655	659	663	667	671	675	679	683	687	691
Start Date	2/2/93	2/15/93	3/2/93	3/16/93	3/30/93	4/14/93	4/27/93	5/13/93	5/26/93	6/9/93
Time (hrs)	307.17	360.58	336.5	337	359.5	313.92	382.17	311.58	337.75	334.25
Soluble Fraction										
Volume (l)	1.36764	1.23162	2.92604	0.96581	0.35359	0.52664	0.39241	0.92524	0.31094	0.68093
Cr (sol)	8.1E+03	9.0E+03	ND	ND	6.7E+03	ND	1.9E+04	7.4E+04	4.9E+03	ND
Mn (sol)	7.6E+04	6.1E+04	5.3E+04	1.6E+04	3.3E+04	9.0E+04	1.3E+05	2.4E+04	3.6E+05	2.0E+05
Co (sol)	ND	ND	ND	ND	ND	ND	1.2E+03	3.7E+02	1.5E+03	ND
Ni (sol)	5.0E+04	4.9E+04	3.2E+04	3.2E+04	3.6E+04	2.5E+04	1.5E+04	2.1E+04	3.6E+04	2.7E+04
Cu (sol)	1.0E+05	3.5E+04	3.2E+04	3.4E+04	5.1E+04	4.8E+04	2.6E+04	9.1E+04	2.7E+04	3.5E+04
Zn (sol)	2.1E+05	1.5E+05	1.5E+05	7.6E+04	6.8E+04	1.7E+05	1.4E+05	1.2E+05	2.1E+05	2.4E+05
Cd (sol)	7.1E+02	4.8E+03	ND	ND	7.4E+02	7.3E+02	3.1E+03	4.7E+03	3.4E+03	1.0E+03
Pb (sol)	6.0E+05	7.4E+04	3.8E+04	2.3E+04	2.5E+04	4.4E+04	2.4E+04	9.0E+03	3.8E+04	2.1E+04
Fe (sol)	9.5E+04	9.6E+05	ND	1.6E+05	5.4E+05	9.2E+04	1.1E+05	1.1E+05	2.4E+05	3.0E+05
Al (sol)	9.6E+05	7.7E+05	3.9E+05	3.5E+05	5.5E+05	6.9E+05	1.0E+05	1.1E+05	6.5E+05	3.7E+05

Dry Deposition Samples, Soluble Fraction (ICP-MS)

Nahant Deposition Rates [ng/m2-period]

Sample ID	695	699	701	703	707	711
Start Date	6/23/93	7/7/93	7/22/93	8/4/93	8/18/93	9/1/93
Time (hrs)	339.75	354.08	314.75	334.33	335.58	313.17
Soluble Fraction						
Volume (l)	0.49234	0.47008	0.37701	2.61772	1.92655	2.97423
Cr (sol)	3.9E+03	1.6E+04	3.3E+03	3.9E+04	1.6E+05	1.3E+04
Mn (sol)	2.8E+04	2.1E+05	1.1E+04	4.1E+04	1.8E+04	2.9E+05
Co (sol)	ND	2.6E+03	ND	ND	ND	9.5E+03
Ni (sol)	6.1E+04	2.0E+04	1.0E+04	4.6E+04	5.0E+04	2.0E+04
Cu (sol)	7.9E+04	2.5E+04	6.0E+04	3.3E+04	1.4E+05	2.6E+05
Zn (sol)	4.1E+04	1.9E+05	1.5E+04	1.2E+05	1.5E+05	5.9E+04
Cd (sol)	ND	3.3E+03	1.3E+03	9.9E+03	9.0E+03	ND
Pb (sol)	9.3E+03	3.9E+04	6.0E+03	3.7E+04	1.9E+04	5.7E+04
Fe (sol)	2.6E+04	3.3E+05	1.4E+05	ND	2.3E+05	6.6E+05
Al (sol)	3.6E+04	4.4E+05	1.1E+05	2.0E+05	1.9E+05	5.3E+05

Dry Deposition Samples, Desorbed Fraction Only (ICP-MS)

Nahant Deposition Rates [ng/m2-period]

Date	7/7/92	7/7/92	7/22/92	7/22/92	8/6/92	8/6/92	8/19/92	9/2/92	9/16/92	9/30/92
Time (hrs)	360	360	360	360	311.833	311.833	336.42	335.25	335.667	335.5
Dry Deposition Sample ID	600	601	604	605	606	607	609	611	614	618
Volume (l)	1	missing	missing	missing	missing	missing	1	1	missing	1
Cr (dry)	1.8E+03						3.0E+03	ND		1.4E+03
Mn (dry)	ND						6.0E+03	ND		1.2E+04
Co (dry)	ND						ND	ND		ND
Ni (dry)	2.0E+03						5.3E+02	2.1E+03		5.2E+03
Cu (dry)	4.6E+03						1.8E+04	ND		8.8E+03
Zn (dry)	1.4E+04						3.8E+04	6.7E+03		2.5E+04
Cd (dry)	ND						2.2E+02	ND		3.1E+03
Pb (dry)	4.7E+03						2.2E+04	ND		1.4E+04
Fe (dry)	3.5E+05						3.8E+05	2.5E+04		2.3E+05
Al (dry)	3.0E+05						3.3E+05	7.6E+03		1.9E+05

A-3.10

A-3.10

Dry Deposition Samples, Desorbed Fraction Only (ICP-MS)

Nahant Deposition Rates [ng/m2-period]

Date	10/14/92	10/27/92	11/10/92	11/23/92	12/7/92	12/21/92	1/6/93	1/20/93	2/2/93	2/15/93
Time (hrs)	311.75	329.08	317.42	334.75	334.5	381.5	333.58	311.5	307.17	360.58
Dry Deposition										
Sample ID	623	627	631	635	639	643	647	651	655	659
Volume (l)	1	1	1	1	Destroye	1	1	1	1	1
Cr (dry)	5.0E+02	2.5E+03	ND	7.2E+02		2.0E+03	2.9E+03	3.3E+04	3.2E+04	1.9E+03
Mn (dry)	2.8E+02	3.0E+02	ND	1.4E+03		8.7E+03	1.1E+04	1.1E+04	2.1E+04	7.8E+03
Co (dry)	ND	ND	ND	ND		ND	ND	ND	6.9E+02	ND
Ni (dry)	ND	2.1E+03	3.0E+03	ND		7.1E+03	6.0E+03	1.2E+04	1.5E+04	3.1E+03
Cu (dry)	ND	6.5E+02	ND	8.9E+03		3.8E+03	5.2E+03	1.6E+04	2.5E+04	5.2E+03
Zn (dry)	1.3E+04	8.8E+03	9.9E+03	3.0E+04		1.9E+04	2.3E+04	2.6E+04	3.9E+04	1.0E+04
Cd (dry)	ND	1.2E+03	ND	ND		3.7E+03	3.3E+03	4.2E+03	6.8E+03	3.2E+03
Pb (dry)	5.3E+03	4.9E+03	3.2E+03	2.1E+04		1.3E+04	1.6E+04	9.1E+03	6.6E+04	9.1E+03
Fe (dry)	9.6E+04	2.0E+05	3.1E+05	ND		3.6E+05	5.8E+05	2.5E+05	1.4E+06	2.1E+05
Al (dry)	4.6E+04	3.6E+04	8.2E+04	ND		2.1E+05	2.9E+05	2.0E+05	8.6E+05	1.8E+05

Dry Deposition Samples, Desorbed Fraction Only (ICP-MS)

Nahant Deposition Rates [ng/m2-period]

Date	3/2/93	3/16/93	3/30/93	4/14/93	4/27/93	5/13/93	5/26/93	6/9/93	6/23/93	7/7/93
Time (hrs)	336.5	337	359.5	313.92	382.17	311.58	337.75	334.25	339.75	354.08
Dry Deposition Sample ID	663	667	671	675	679	683	687	691	695	699
Volume (l)	1	1	1	1	1	1	1	1	1	1
Cr (dry)	ND	4.6E+03	7.5E+04	ND	4.4E+03	3.2E+04	7.1E+04	8.2E+03	1.5E+04	3.9E+03
Mn (dry)	ND	6.2E+02	8.3E+03	ND	1.1E+04	8.8E+04	2.8E+04	7.6E+03	4.2E+04	7.0E+03
Co (dry)	ND	ND	ND	ND	ND	1.5E+03	4.4E+02	ND	ND	ND
Ni (dry)	3.2E+03	3.4E+03	1.3E+04	3.7E+03	4.2E+03	1.5E+04	1.6E+04	8.2E+03	1.6E+04	3.6E+03
Cu (dry)	1.2E+03	6.7E+02	1.1E+04	4.0E+03	1.1E+04	6.8E+04	2.2E+04	1.5E+04	4.2E+04	7.4E+03
Zn (dry)	1.1E+04	9.9E+03	1.5E+04	1.2E+04	1.8E+04	4.6E+04	3.1E+04	2.0E+04	7.4E+04	1.6E+04
Cd (dry)	ND	ND	4.0E+03	ND	ND	4.9E+03	4.3E+03	ND	3.4E+03	ND
Pb (dry)	1.8E+03	1.7E+03	7.6E+03	ND	2.6E+04	4.0E+04	2.6E+04	3.0E+04	2.5E+04	1.8E+04
Fe (dry)	4.1E+05	2.5E+05	1.9E+05	2.1E+05	4.6E+05	8.4E+05	9.9E+05	6.0E+05	2.6E+05	3.4E+05
Al (dry)	2.9E+05	8.0E+04	6.6E+04	9.9E+04	4.2E+05	6.6E+05	6.7E+05	4.5E+05	3.3E+05	4.1E+05

Dry Deposition Samples, Desorbed Fraction Only (ICP-MS)

Nahant Deposition Rates [ng/m2-period]

Date	7/22/93	8/4/93	8/18/93	9/1/93	Deposition Rates
Time (hrs)	314.75	334.33	335.58	313.17	
Dry Deposition Sample ID	701	703	707	711	Annual (ug/m2-year
Volume (l)	1	1	1	missing	
Cr (dry)	3.0E+04	6.9E+04	1.7E+03		447
Mn (dry)	6.6E+04	8.3E+03	6.5E+04		460
Co (dry)	1.1E+03	ND	ND		4
Ni (dry)	2.0E+04	9.8E+03	9.3E+03		204
Cu (dry)	7.3E+04	1.0E+04	1.3E+05		537
Zn (dry)	8.8E+04	1.2E+04	4.4E+04		684
Cd (dry)	4.7E+03	4.4E+03	3.0E+03		62
Pb (dry)	3.0E+04	7.1E+03	3.6E+04		467
Fe (dry)	4.4E+05	1.3E+05	5.4E+05		10576
Al (dry)	4.9E+05	4.5E+04	4.5E+05		7418

Dry Deposition Samples (GC-MS)

Nahant Deposition Rates [ng/m2-hr]

Sample ID	615	619	624	628	632	636	640	644	648	652
Start Date	9/16/92	9/30/92	10/14/92	10/27/92	11/10/92	11/23/92	12/7/92	12/21/92	1/6/93	1/20/93
Time (hrs)	335.667	335.5	311.75	329.08	317.42	334.75	334.5	381.5	333.58	311.5
Precip. (in)	1.09						Destroye			
Acenaphthene	ND	ND	ND	ND	ND	7.2E-01		1.1E+00	8.3E-01	ND
Acenaphthylene	1.3E+00	ND	ND	ND	1.5E-01	7.7E-01		1.1E+00	5.2E-01	ND
Anthracenes	1.7E+00	2.0E+00	4.8E+00	3.5E+00	4.7E-02	4.2E+00		1.2E+01	6.1E+00	1.1E+00
Benzo[GHI]peryle	8.3E-01	1.3E+00	2.0E+00	1.7E+00	1.1E-01	3.4E+00		6.5E+00	3.2E+00	9.5E-01
Biphenyl	1.1E+00	ND	ND	2.9E+00	ND	ND		5.5E-01	ND	ND
Chrysenes	1.1E+00	1.9E+00	6.2E+00	5.3E+00	1.7E-01	3.1E+01		2.4E+01	1.2E+01	2.1E+00
Dibenzothiophene	5.9E-01	7.5E-01	3.6E+00	5.7E+00	ND	3.9E+00		4.0E+00	1.4E+00	ND
Fluoranthens	1.3E+01	1.3E+01	2.3E+01	2.1E+01	5.4E-01	1.8E+01		5.0E+01	2.6E+01	8.2E+00
Fluorene	8.5E-01	ND	ND	ND	ND	2.1E+00		1.7E+00	1.0E+01	ND
Naphalene	1.9E+01	1.2E+01	3.5E+01	4.1E+01	4.2E+00	2.2E+01		9.6E+00	7.6E+00	2.1E+00
Perylene	5.9E-01	6.0E-01	6.1E+00	9.7E-01	7.4E-02	2.9E+00		2.1E+00	9.3E-01	ND
Phenanthrenes	1.0E+01	3.0E+00	1.7E+01	1.9E+01	ND	1.6E+01		3.3E+01	1.8E+01	6.8E+00
Pyrenes	7.6E+00	6.8E+00	1.3E+01	1.2E+01	8.5E-01	1.4E+01		4.1E+01	2.0E+01	6.0E+00
Total Aromatics	5.8E+01	4.3E+01	1.1E+02	1.2E+02	8.5E+00	1.2E+02		1.9E+02	1.1E+02	3.2E+01
BaP Equivalents	1.5E+00	2.8E+00	6.2E+00	4.6E+00	2.2E-02	6.0E+00		1.5E+01	7.2E+00	1.7E+00
Fraction BaP Eqi	1.2E+01	3.5E+01	2.5E+01	1.9E+01	7.6E+00	2.2E+01		3.5E+01	2.9E+01	3.2E+01
BeP	9.1E-01	1.3E+00	2.3E+00	2.0E+00	ND	3.0E+00		7.7E+00	3.6E+00	1.1E+00

Dry Deposition Samples (GC-MS)

Nahant Deposition Rates [ng/m2-hr]

Sample ID	656	660	664	668	672	676	680	684	688	692
Start Date	2/2/93	2/15/93	3/2/93	3/16/93	3/30/93	4/14/93	4/27/93	5/13/93	5/26/93	6/9/93
Time (hrs)	307.17	360.58	336.5	337	359.5	313.92	382.17	311.58	337.75	334.25
Precip. (in)							missing			
Acenaphthene	1.1E+00	1.4E+00	ND	ND	ND	1.3E+00		5.8E-01	6.5E-01	ND
Acenaphthylene	9.2E-01	ND	ND	ND	ND	1.0E+00		4.0E-01	5.2E-01	ND
Anthracenes	8.9E+00	7.6E+00	7.0E+00	2.4E+00	2.3E+00	1.5E+01		7.2E+00	5.4E+00	5.2E-01
Benzo[GHI]peryle	6.5E+00	4.8E+00	5.6E+00	1.7E+00	1.8E+00	1.1E+01		6.6E+00	3.6E+00	8.2E-02
Biphenyl	8.5E-01	ND	ND	ND	ND	7.0E-01		ND	2.7E-01	2.3E-01
Chrysenes	1.9E+01	1.4E+01	1.7E+01	5.3E+00	4.9E+00	2.9E+01		1.7E+01	1.1E+01	4.5E+00
Dibenzothiophene	2.6E+00	4.0E+00	4.4E+00	1.5E+00	1.1E+00	4.1E+00		2.1E+00	9.1E-01	7.5E-01
Fluoranthens	4.7E+01	3.6E+01	4.1E+01	1.4E+01	1.3E+01	7.7E+01		4.0E+01	2.7E+01	8.9E+00
Fluorene	3.0E+00	1.5E+01	5.1E+00	ND	ND	2.8E+00		4.8E+00	6.5E-01	4.5E-01
Naphalene	8.3E+00	8.2E+00	8.1E+00	1.1E+00	ND	5.7E+00		7.6E+00	2.5E+00	1.3E+00
Perylene	1.6E+00	1.4E+00	ND	5.1E-01	4.3E-01	2.7E+00		ND	3.4E+00	ND
Phenanthrenes	3.1E+01	2.6E+01	2.8E+01	1.1E+01	9.9E+00	4.3E+01		2.1E+01	1.8E+01	7.8E+00
Pyrenes	3.6E+01	2.8E+01	3.2E+01	1.1E+01	1.0E+01	6.2E+01		3.2E+01	2.2E+01	2.8E-01
Total Aromatics	1.7E+02	1.5E+02	1.6E+02	5.4E+01	4.8E+01	2.6E+02		1.4E+02	9.7E+01	2.5E+01
BaP Equivalents	1.1E+01	1.0E+01	1.1E+01	3.3E+00	3.2E+00	2.1E+01		1.0E+01	6.1E+00	5.3E-01
Fraction BaP Eqi	3.0E+01	2.9E+01	3.2E+01	3.0E+01	3.2E+01	3.4E+01		3.5E+01	3.1E+01	2.5E+01
BeP	5.9E+00	4.3E+00	5.5E+00	1.8E+00	1.8E+00	1.0E+01		5.9E+00	4.4E+00	ND

Dry Deposition Samples (GC-MS)

Nahant Deposition Rates [ng/m2-hr]

Sample ID	696	700	702	704	708	712
Start Date	6/23/93	7/7/93	7/22/93	8/4/93	8/18/93	9/1/93
Time (hrs)	339.75	354.08	314.75	334.33	335.58	313.17
Precip. (in)						
Acenaphthene	3.0E-01	3.8E-01	2.2E-01	ND	ND	ND
Acenaphthylene	3.7E-01	4.8E-01	2.9E-01	ND	ND	ND
Anthracenes	1.1E+00	3.8E+00	1.7E+00	1.8E+00	1.7E+00	1.5E+00
Benzo[GHI]peryle	3.8E-02	2.7E+00	1.4E+00	ND	2.2E+00	ND
Biphenyl	1.0E+00	5.0E-01	6.2E-01	ND	ND	ND
Chrysenes	5.2E+00	1.2E+01	2.6E+00	2.8E+00	4.1E+00	ND
Dibenzothiophene	1.9E+00	3.3E-01	1.1E-01	ND	ND	ND
Fluoranthens	1.3E+01	2.5E+01	1.1E+01	7.8E+00	1.0E+01	8.3E+00
Fluorene	1.1E+01	9.7E-01	2.4E-01	ND	ND	ND
Naphalene	3.2E+00	9.6E+00	3.9E+00	ND	ND	ND
Perylene	5.0E-01	2.6E+00	3.7E+00	ND	ND	ND
Phenanthrenes	8.8E+00	1.4E+01	2.5E+00	ND	4.0E+00	5.4E+00
Pyrenes	8.5E-01	1.6E+01	7.2E+00	3.2E+00	1.0E+01	4.6E+00
Total Aromatics	4.6E+01	8.9E+01	3.5E+01	1.6E+01	3.9E+01	2.0E+01
BaP Equivalents	9.1E-01	3.5E+00	1.7E+00	6.7E-01	1.0E+00	4.3E-01
Fraction BaP Eqi	2.1E+01	3.0E+01	3.3E+01	5.4E+01	3.8E+01	1.8E+01
BeP	6.5E-01	3.9E+00	1.8E+00	ND	2.0E+00	ND

Appendix A-4

Nahant Wet Deposition Rates

Appendix Order:

- INAA (Insoluble Metals Only)
- ICP-MS (Soluble and Insoluble Metals Only)
- ICP-MS (Wall Desorbed Metals Only)
- GC-MS (PAHs Only)

Wet Deposition Samples (INAA)

Nahant Deposition Rates [ng/m2-period]

Sample ID	800	801	804	805	806	807	809	811	814	818	823
Start Date	7/7/92	7/7/92	7/22/92	7/22/92	8/6/92	8/6/92	8/19/92	9/2/92	9/16/92	9/30/92	10/14/92
Time (hrs)	360	360	360	360	311.833	311.833	336.42	335.25	335.25	335.5	311.75
Precip. (in)	1.11	1.11	0.98	0.98	4.41	4.41	0.56	1.37	1.87	1.19	0.54
Fe	1.0E+06	1.5E+06	1.8E+05	8.1E+05	8.2E+05	4.4E+05	1.4E+05	2.0E+05	2.1E+05	1.6E+05	3.4E+05
Na	ND	2.6E+05	7.7E+03	1.6E+05	5.4E+05	1.6E+05	3.6E+04	3.0E+04	5.2E+04	8.1E+04	5.7E+04
K	ND	ND	ND	ND	ND	ND	ND	ND	8.8E+04	ND	ND
Cs	ND	ND	ND	ND	ND	ND	ND	ND	1.1E+02	ND	ND
Sc	2.9E+02	4.2E+02	2.5E+01	1.9E+02	1.8E+02	1.1E+02	2.5E+01	4.5E+01	4.7E+01	2.5E+01	7.2E+01
Cr	1.1E+04	5.4E+03	1.9E+03	6.5E+03	2.0E+04	8.7E+03	2.6E+03	1.6E+03	7.9E+03	1.3E+03	2.9E+03
Co	3.2E+02	3.3E+02	ND	2.4E+02	2.5E+02	2.1E+02	ND	5.5E+01	ND	6.2E+00	4.8E+01
Zn	1.2E+04	6.1E+01	ND	2.0E+03	ND	1.2E+04	1.2E+02	3.9E+02	ND	3.6E+03	2.6E+03
Ag	5.2E+02	1.0E+03	ND	ND	8.3E+02	6.5E+02	ND	ND	ND	3.3E+02	ND
Br	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.3E+04	ND
As	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Sb	1.9E+02	3.5E+02	2.3E+01	8.9E+01	3.4E+02	1.1E+03	ND	ND	ND	ND	1.2E+02
Se	2.6E+02	3.5E+02	ND	6.2E+02	7.1E+02	3.6E+02	ND	ND	5.2E+02	1.8E+02	2.7E+02
La	9.1E+02	1.4E+03	4.1E+01	6.0E+02	2.4E+03	9.0E+02	1.2E+03	ND	8.1E+01	6.7E+01	2.8E+02
Ce	1.8E+03	3.2E+03	ND	1.1E+03	6.8E+03	1.6E+03	2.8E+03	ND	ND	ND	3.0E+02
Nd	ND	1.3E+03	ND	ND	8.1E+02	ND	1.3E+03	ND	ND	ND	ND
Sm	3.9E+02	4.8E+02	9.5E+01	1.9E+02	4.6E+02	3.1E+01	4.7E+01	8.6E+01	2.5E+01	ND	1.5E+02
Eu	5.3E+01	6.4E+01	ND	2.8E+01	3.4E+01	1.1E+01	ND	ND	ND	ND	2.7E+01
Gd	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tb	1.7E+01	3.6E+01	ND	1.4E+01	1.2E+01	ND	ND	ND	ND	9.4E+00	ND
Tm	ND	2.7E+01	ND	ND	ND	ND	ND	ND	ND	ND	ND
Yb	4.4E+01	6.1E+01	ND	9.4E+00	2.2E+01	1.6E+01	ND	ND	ND	ND	ND
Hf	1.9E+01	4.1E+01	ND	1.1E+01	2.2E+01	ND	6.2E+00	3.1E+00	ND	ND	ND
Ta	9.2E+01	1.5E+02	ND	4.1E+01	4.1E+01	7.8E+01	ND	ND	1.2E+01	2.3E+01	ND
Ir	ND	ND	ND	1.1E+02	ND	ND	ND	ND	7.5E+01	ND	ND
Th	2.8E+02	4.1E+02	ND	1.8E+02	1.9E+02	6.9E+01	ND	8.0E+01	ND	3.4E+02	ND
U	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Rb	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Wet Deposition Samples (INAA)

Nahant Deposition Rates [ng/m2-period]

Sample ID	827	831	835	839	843	847	851	855	859	863	867
Start Date	10/27/92	11/10/92	11/23/92	12/7/92	12/21/92	1/6/93	1/20/93	2/2/93	2/15/93	3/2/93	3/16/93
Time (hrs)	329.08	317.42	334.75	334.5	381.5	333.58	311.5	307.17	360.58	336.5	337
Precip. (in)	1	2.74	1.34	7.99	1.53	0.5	0.46	2.39	1.54	0.77	3.39
				Destroyed							
Fe	2.9E+05	4.6E+05	1.8E+05		8.5E+05	2.5E+05	4.7E+05	4.1E+05	3.5E+05	7.2E+05	4.6E+05
Na	6.3E+04	7.8E+04	2.9E+04		2.2E+05	1.0E+05	2.0E+05	1.4E+05	1.2E+05	3.1E+05	1.1E+05
K	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND
Cs	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND
Sc	7.0E+01	1.0E+02	3.4E+01		2.8E+02	5.3E+01	1.3E+02	6.1E+01	7.8E+01	1.8E+02	9.8E+01
Cr	3.5E+03	3.5E+03	2.3E+03		2.3E+04	4.1E+03	4.7E+03	3.4E+03	5.1E+03	3.5E+03	6.9E+03
Co	5.6E+01	1.4E+02	ND		4.1E+02	5.1E+01	4.7E+00	7.2E+01	ND	2.1E+02	9.8E+01
Zn	ND	1.4E+04	8.6E+03		1.5E+04	ND	ND	1.5E+04	3.6E+02	8.0E+03	3.0E+03
Ag	ND	ND	ND		7.6E+02	4.5E+02	ND	ND	ND	4.5E+02	8.4E+02
Br	ND	ND	ND		ND	ND	ND	ND	ND	9.3E+03	ND
As	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND
Sb	8.9E+01	2.8E+02	1.1E+02		1.2E+03	8.4E+02	ND	4.8E+02	1.0E+03	1.2E+02	1.0E+03
Se	2.9E+02	5.0E+02	5.0E+02		8.6E+02	9.0E+02	ND	ND	4.8E+02	ND	3.6E+02
La	5.6E+01	6.7E+02	1.4E+03		2.0E+03	5.3E+02	2.4E+03	4.4E+02	1.3E+02	8.2E+02	8.6E+02
Ce	ND	8.2E+02	2.0E+03		2.1E+03	ND	5.1E+03	2.4E+02	6.7E+01	1.5E+03	1.1E+03
Nd	ND	ND	ND		1.3E+03	ND	1.1E+03	ND	ND	ND	ND
Sm	1.1E+02	1.1E+02	2.5E+01		2.0E+02	3.6E+01	8.6E+01	1.5E+02	4.7E+01	1.5E+02	9.7E+01
Eu	1.2E+01	1.6E+01	ND		2.2E+01	2.0E+01	1.8E+01	ND	1.9E+01	4.1E+01	1.4E+01
Gd	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND
Tb	ND	ND	ND		ND	ND	3.0E+00	ND	ND	1.1E+01	ND
Tm	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND
Yb	ND	ND	ND		2.0E+01	ND	ND	1.7E+01	2.2E+01	1.7E+01	ND
Hf	1.1E+01	2.5E+01	ND		4.7E+01	ND	1.0E+02	ND	3.0E+01	ND	7.8E+00
Ta	2.8E+01	4.3E+02	ND		1.6E+02	3.1E+01	1.2E+02	1.2E+02	ND	ND	3.4E+01
Ir	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND
Th	1.4E+02	1.3E+02	ND		2.5E+02	ND	4.6E+02	ND	9.0E+01	1.4E+02	8.0E+01
U	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND
Rb	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND

Wet Deposition Samples (INAA)

Nahant **Deposition Rates [ng/m2-period]**

Sample ID	871	875	879	883	887	891	899	901	903	907	911
Start Date	3/30/93	4/14/93	4/27/93	5/13/93	5/26/93	6/9/93	7/7/93	7/22/93	8/4/93	8/18/93	9/1/93
Time (hrs)	359.5	313.92	382.17	311.58	337.75	674.25	354.08	314.75	334.33	335.58	313.17
Precip. (in)	1.82	2.12	0.12	0.57	1.18	0.64	0.33	1.03	0.58	0.34	1.55
Fe	6.0E+05	5.1E+05	1.3E+06	9.5E+05	8.1E+05	1.4E+06	4.0E+05	5.0E+05	8.3E+05	2.9E+05	1.3E+06
Na	1.3E+05	1.8E+05	4.7E+05	ND	2.5E+05	4.2E+05	1.2E+05	1.0E+05	2.7E+05	8.2E+04	3.8E+05
K	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cs	1.1E+02	ND	2.7E+02	ND	ND	1.2E+02	ND	ND	ND	ND	9.8E+01
Sc	1.4E+02	1.1E+02	3.5E+02	2.6E+02	2.1E+02	3.6E+02	1.0E+02	1.2E+02	2.2E+02	6.9E+01	3.5E+02
Cr	3.7E+03	8.6E+03	7.6E+03	4.7E+03	7.7E+03	9.8E+03	5.5E+03	1.1E+04	3.8E+03	3.2E+03	7.1E+03
Co	2.3E+02	4.7E+00	3.0E+02	3.6E+02	1.0E+02	3.1E+02	ND	1.4E+02	1.2E+02	2.3E+01	5.7E+02
Zn	8.3E+03	7.8E+03	6.6E+03	1.2E+04	8.8E+03	1.7E+03	2.9E+03	9.7E+02	ND	3.6E+02	9.4E+03
Ag	ND	ND	3.1E+02	ND	ND	ND	ND	ND	ND	ND	ND
Br	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
As	ND	ND	1.1E+03	ND	ND	ND	ND	ND	ND	ND	ND
Sb	1.4E+03	1.4E+02	3.5E+02	9.4E+02	2.2E+02	1.4E+02	ND	2.1E+02	2.0E+02	1.3E+02	5.0E+02
Se	3.4E+02	ND	ND	ND	7.0E+02	6.4E+02	ND	2.5E+01	ND	2.2E+02	1.2E+03
La	3.6E+02	5.0E+02	1.2E+03	1.1E+03	8.9E+02	2.0E+03	4.8E+02	5.2E+02	1.1E+03	1.6E+03	1.9E+03
Ce	3.3E+02	3.3E+02	3.3E+03	1.7E+03	1.7E+03	3.2E+03	7.3E+02	5.6E+02	1.8E+03	4.0E+03	2.3E+03
Nd	ND	ND	1.8E+03	1.3E+03	ND	ND	ND	ND	ND	ND	ND
Sm	8.9E+01	8.6E+01	3.5E+02	3.0E+02	1.2E+02	2.7E+02	9.0E+01	7.3E+01	1.4E+02	9.8E+01	2.4E+02
Eu	2.8E+01	1.4E+01	8.3E+01	3.5E+01	3.6E+01	5.5E+01	1.2E+01	1.4E+01	3.6E+01	1.1E+01	6.7E+01
Gd	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tb	ND	ND	3.1E+01	3.4E+01	2.7E+01	3.4E+01	ND	ND	ND	ND	3.1E+01
Tm	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Yb	4.1E+01	3.6E+01	4.9E+01	4.0E+01	3.0E+01	5.0E+01	3.6E+01	ND	5.1E+01	4.7E+00	4.2E+01
Hf	ND	2.2E+01	8.4E+01	3.9E+01	3.4E+01	6.4E+01	ND	3.6E+01	3.6E+01	1.4E+01	5.1E+01
Ta	1.1E+02	ND	9.4E+01	1.3E+02	2.3E+01	ND	ND	1.0E+03	ND	5.0E+01	7.2E+01
Ir	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Th	1.4E+02	1.5E+02	3.9E+02	2.3E+02	1.5E+02	4.3E+02	ND	1.4E+02	2.6E+02	ND	3.3E+02
U	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Rb	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Wet Deposition Samples (INAA)

Nahant

Sample ID Start Date Time (hrs) Precip. (in)	Annual Deposition Rates ug/m2-yr
Fe	16872.3
Na	4599.4
K	98.1
Cs	0.5
Sc	4.2
Cr	194.9
Co	4.0
Zn	150.5
Ag	4.7
Br	24.9
As	0.0
Sb	10.8
Se	10.0
La	27.4
Ce	45.9
Nd	6.5
Sm	4.2
Eu	0.7
Gd	0.0
Tb	0.2
Tm	0.0
Yb	0.5
Hf	0.6
Ta	2.7
Ir	0.1
Th	4.5
U	0.0
Rb	0.0

Wet Deposition Samples, Soluble (ICP-MS)

Nahant Deposition Rates [ng/m2-period]

Sample ID	800	801	804	805	806	807	809	811	814
Start Date	7/7/92	7/7/92	7/22/92	7/22/92	8/6/92	8/6/92	8/19/92	9/2/92	9/16/92
Time (hrs)	360	360	360	360	311.833	311.833	336.42	335.25	335.25
Soluble Fraction Volume (l)	1.75491	1.8175	1.5314	1.64027	7.18002	missing	0.09143	2.2276	3.10236
Cr (sol)	ND	ND	ND	6.1E+02	ND		1.5E+03	ND	ND
Mn (sol)	3.2E+04	4.5E+04	3.2E+04	1.2E+04	ND		5.4E+03	ND	ND
Co (sol)	ND	ND	ND	ND	ND		ND	ND	ND
Ni (sol)	3.1E+04	9.3E+04	9.4E+04	1.0E+04	1.3E+05		8.9E+03	5.6E+04	3.3E+04
Cu (sol)	1.0E+04	1.8E+04	4.7E+04	8.1E+03	4.9E+04		7.0E+03	1.8E+04	2.9E+03
Zn (sol)	1.1E+05	1.1E+05	8.2E+04	7.9E+04	2.5E+05		1.6E+05	8.0E+04	5.9E+03
Cd (sol)	ND	9.5E+02	ND	ND	8.7E+03		2.5E+01	ND	ND
Pb (sol)	1.6E+04	2.6E+04	4.0E+04	1.3E+05	3.9E+04		8.5E+03	5.6E+03	ND
Fe (sol)	4.6E+04	1.8E+05	5.4E+05	1.4E+05	ND		1.3E+05	3.4E+03	ND
Al (sol)	3.6E+05	3.1E+05	4.4E+05	3.0E+05	ND		9.2E+04	8.8E+04	ND

Wet Deposition Samples, Soluble (ICP-MS)

Nahant Deposition Rates [ng/m2-period]

Sample ID	818	823	827	831	835	839	843	847	851
Start Date	9/30/92	10/14/92	10/27/92	11/10/92	11/23/92	12/7/92	12/21/92	1/6/93	1/20/93
Time (hrs)	335.5	311.75	329.08	317.42	334.75	334.5	381.5	333.58	311.5
Soluble Fraction Volume (l)	1.98922	0.99286	1.63138	4.45777	2.2371	destroye	2.55418	1.04366	0.8677
Cr (sol)	ND	1.3E+03	3.9E+03	ND	ND		ND	3.4E+03	ND
Mn (sol)	ND	1.3E+04	1.9E+04	2.0E+04	ND		ND	1.4E+04	2.1E+03
Co (sol)	ND	ND	ND	ND	ND		ND	ND	ND
Ni (sol)	1.5E+04	7.1E+03	1.8E+04	ND	2.1E+04		1.5E+04	1.5E+04	1.0E+04
Cu (sol)	2.9E+03	7.7E+03	2.9E+03	1.2E+04	7.3E+02		7.2E+02	7.3E+03	1.6E+03
Zn (sol)	5.8E+04	5.4E+04	4.2E+04	4.8E+04	5.6E+04		4.3E+04	5.4E+04	2.8E+04
Cd (sol)	ND	ND	5.0E+03	ND	ND		ND	3.6E+03	ND
Pb (sol)	9.9E+03	7.5E+03	1.9E+04	1.7E+04	2.4E+03		ND	1.7E+04	6.7E+03
Fe (sol)	ND	2.7E+04	1.0E+04	2.9E+04	ND		ND	1.2E+05	ND
Al (sol)	1.0E+05	5.4E+04	6.0E+04	ND	ND		ND	1.7E+05	1.3E+05

Wet Deposition Samples, Soluble (ICP-MS)

Nahant Deposition Rates [ng/m2-period]

Sample ID	855	859	863	867	871	875	879	883	887
Start Date	2/2/93	2/15/93	3/2/93	3/16/93	3/30/93	4/14/93	4/27/93	5/13/93	5/26/93
Time (hrs)	307.17	360.58	336.5	337	359.5	313.92	382.17	311.58	337.75
Soluble Fraction Volume (l)	3.88724	2.51283	1.25384	5.52726	2.96639	3.44925	0.28621	1.08009	1.92993
Cr (sol)	7.2E+02	ND	1.4E+04	1.8E+05	ND	ND	ND	ND	1.3E+05
Mn (sol)	5.3E+03	ND	3.4E+04	4.8E+04	9.6E+03	6.2E+02	7.4E+04	4.0E+04	5.4E+04
Co (sol)	ND	ND	ND	1.2E+03	ND	ND	ND	ND	7.2E+02
Ni (sol)	1.6E+04	2.4E+04	2.1E+04	8.2E+04	2.4E+04	1.2E+04	5.2E+03	1.2E+04	2.7E+04
Cu (sol)	2.3E+04	ND	1.2E+04	6.4E+04	ND	ND	3.1E+03	ND	2.7E+04
Zn (sol)	1.5E+05	6.0E+04	4.5E+04	1.1E+05	6.0E+04	6.7E+04	5.1E+04	4.0E+04	9.6E+04
Cd (sol)	ND	ND	5.0E+03	2.3E+04	ND	ND	5.8E+02	ND	9.3E+03
Pb (sol)	ND	1.1E+04	1.9E+04	4.9E+04	1.4E+04	9.9E+03	5.9E+03	6.3E+03	3.8E+04
Fe (sol)	ND	ND	2.6E+05	3.3E+05	ND	ND	ND	ND	1.0E+05
Al (sol)	ND	1.2E+04	2.4E+05	1.1E+04	6.1E+04	ND	1.4E+05	7.9E+04	2.4E+05

Wet Deposition Samples, Soluble (ICP-MS)

Nahant Deposition Rates [ng/m2-period]

Sample ID	891	899	901	903	907	911
Start Date	6/9/93	7/7/93	7/22/93	8/4/93	8/18/93	9/1/93
Time (hrs)	674.25	354.08	314.75	334.33	335.58	313.17
Soluble Fraction Volume (l)	1.0382	0.53219	1.83069	1.22635	0.66594	2.52101
Cr (sol)	5.2E+03	1.0E+04	1.2E+05	9.8E+04	5.5E+04	2.0E+05
Mn (sol)	4.4E+04	1.9E+04	3.1E+04	2.8E+04	1.8E+04	3.5E+04
Co (sol)	ND	1.4E+02	4.1E+02	4.2E+02	5.3E+02	1.5E+03
Ni (sol)	8.8E+03	8.7E+03	2.4E+04	2.0E+04	1.6E+04	4.9E+04
Cu (sol)	1.1E+04	7.1E+03	2.2E+04	1.9E+04	2.6E+04	3.2E+04
Zn (sol)	7.7E+04	2.9E+04	6.5E+04	6.0E+04	6.1E+04	9.9E+04
Cd (sol)	4.2E+03	2.1E+03	8.1E+03	5.8E+03	3.2E+03	1.1E+04
Pb (sol)	2.2E+04	9.2E+03	2.7E+04	2.3E+04	1.9E+04	3.9E+04
Fe (sol)	1.2E+05	1.5E+04	1.8E+05	1.9E+05	2.5E+05	2.1E+05
Al (sol)	3.7E+05	1.5E+05	2.5E+05	2.1E+05	1.7E+05	2.3E+05

Wet Deposition Samples, Desorbed Fraction Only (ICP-MS)

Nahant Deposition Rates [ng/m2-period]

Date	7/7/92	7/7/92	7/22/92	7/22/92	8/6/92	8/6/92	8/19/92	9/2/92	9/16/92	9/30/92
Time (hrs)	360	360	360	360	311.833	311.833	336.42	335.25	335.667	335.5
Wet Deposition Sample ID	800	801	804	805	806	807	809	811	814	818
Volume (l)	1	missing	1	1	missing	1	1	1	missing	1
Cr (wet)	ND		ND	ND		9.9E+02	1.2E+03	ND		ND
Mn (wet)	3.6E+04		ND	ND		5.3E+03	6.6E+03	ND		ND
Co (wet)	ND		ND	ND		ND	ND	ND		ND
Ni (wet)	1.2E+04		8.1E+02	8.0E+03		1.7E+03	3.3E+03	1.1E+03		9.0E+02
Cu (wet)	1.4E+04		ND	ND		7.6E+02	2.2E+03	ND		ND
Zn (wet)	7.8E+04		6.7E+03	1.1E+04		8.1E+03	1.8E+04	8.1E+03		5.8E+03
Cd (wet)	1.6E+03		ND	ND		2.8E+03	2.8E+03	ND		ND
Pb (wet)	2.6E+04		ND	ND		5.9E+03	6.3E+03	ND		ND
Fe (wet)	ND		1.5E+04	ND		5.1E+04	5.5E+04	ND		1.7E+04
Al (wet)	3.4E+05		3.1E+02	ND		2.4E+02	4.6E+03	ND		1.2E+04

Wet Deposition Samples, Desorbed Fraction Only (ICP-MS)

Nahant Deposition Rates [ng/m2-period]

Date	10/14/92	10/27/92	11/10/92	11/23/92	12/7/92	12/21/92	1/6/93	1/20/93	2/2/93	2/15/93
Time (hrs)	311.75	329.08	317.42	334.75	334.5	381.5	333.58	311.5	307.17	360.58
Wet Deposition										
Sample ID	823	827	831	835	839	843	847	851	855	859
Volume (l)	1	missing	1	1	missing	1	1	1	1	1
Cr (wet)	2.4E+02		ND	2.3E+03		3.0E+04	2.5E+03	8.3E+04	ND	1.6E+04
Mn (wet)	2.8E+03		ND	ND		8.1E+03	7.1E+03	7.4E+03	ND	7.1E+03
Co (wet)	ND		ND	ND		ND	ND	ND	ND	ND
Ni (wet)	ND		2.0E+03	9.3E+02		9.7E+03	5.7E+03	1.1E+04	3.0E+03	8.4E+03
Cu (wet)	1.9E+02		ND	ND		1.1E+04	7.0E+03	9.8E+03	ND	8.9E+03
Zn (wet)	1.5E+04		7.1E+03	1.3E+04		1.3E+04	1.5E+04	1.3E+04	1.3E+04	1.3E+04
Cd (wet)	ND		ND	ND		4.2E+03	3.6E+03	4.0E+03	ND	2.7E+03
Pb (wet)	4.5E+03		ND	ND		6.4E+03	1.4E+04	6.9E+03	ND	6.7E+03
Fe (wet)	ND		ND	ND		7.0E+04	1.6E+05	1.1E+05	1.0E+05	7.9E+04
Al (wet)	ND		1.1E+04	ND		5.0E+04	3.6E+05	3.3E+04	9.5E+04	3.5E+04

Wet Deposition Samples, Desorbed Fraction Only (ICP-MS)

Nahant Deposition Rates [ng/m2-period]

Date	3/2/93	3/16/93	3/30/93	4/14/93	4/27/93	5/13/93	5/26/93	6/9/93	6/23/93	7/7/93
Time (hrs)	336.5	337	359.5	313.92	382.17	311.58	337.75	334.25	339.75	354.08
Wet Deposition										
Sample ID	863	867	871	875	879	883	887	891	895	899
Volume (l)	1	1	1	1	1	1	1	1	missing	1
Cr (wet)	8.6E+02	3.1E+04	1.7E+04	3.5E+04	7.2E+04	2.8E+04	7.7E+04	1.0E+04		4.9E+02
Mn (wet)	9.9E+02	7.7E+03	7.8E+03	9.0E+03	1.3E+04	9.4E+03	9.0E+03	9.1E+03		4.9E+03
Co (wet)	ND	ND	ND	ND	ND	ND	ND	3.7E+02		ND
Ni (wet)	ND	1.2E+04	8.1E+03	1.3E+04	1.6E+04	1.0E+04	1.4E+04	1.0E+04		8.6E+02
Cu (wet)	1.6E+03	1.1E+04	8.1E+03	1.2E+04	1.6E+04	1.1E+04	1.5E+04	9.3E+03		ND
Zn (wet)	1.7E+04	1.4E+04	1.2E+04	1.5E+04	2.6E+04	1.3E+04	2.3E+04	1.8E+04		7.4E+03
Cd (wet)	ND	4.8E+03	2.7E+03	3.9E+03	4.9E+03	4.1E+03	4.1E+03	3.1E+03		2.7E+03
Pb (wet)	3.0E+03	7.6E+03	7.6E+03	7.9E+03	1.4E+04	8.0E+03	9.4E+03	7.6E+03		4.9E+03
Fe (wet)	1.7E+05	1.1E+05	1.5E+05	1.8E+05	4.9E+05	2.2E+05	1.3E+05	1.3E+05		4.8E+04
Al (wet)	8.4E+04	3.1E+04	1.0E+05	1.1E+05	3.6E+05	1.1E+05	6.4E+04	5.3E+04		4.7E+03

Wet Deposition Samples, Desorbed Fraction Only (ICP-MS)

Nahant Deposition Rates [ng/m2-period]

Date	7/22/93	8/4/93	8/18/93	9/1/93	Deposition Rates
Time (hrs)	314.75	334.33	335.58	313.17	
Wet Deposition					
Sample ID	901	903	907	911	
Volume (l)	1	1	1	1	
Cr (wet)	7.4E+04	2.3E+03	2.6E+03	2.9E+03	580
Mn (wet)	7.9E+03	ND	ND	ND	132
Co (wet)	ND	ND	ND	ND	0
Ni (wet)	1.2E+04	9.7E+02	1.3E+03	1.1E+03	167
Cu (wet)	1.1E+04	ND	ND	ND	155
Zn (wet)	2.5E+04	3.0E+03	5.8E+03	4.7E+03	346
Cd (wet)	3.8E+03	ND	ND	ND	58
Pb (wet)	8.3E+03	ND	ND	ND	139
Fe (wet)	1.2E+05	8.3E+03	ND	ND	2743
Al (wet)	7.6E+04	1.1E+04	1.8E+04	2.9E+03	1933

Wet Deposition Samples (GC-MS)

Nahant Deposition Rates [ng/m2-period]

Sample ID	815	819	824	828	832	836	840	844	848	852
Start Date	9/16/92	9/30/92	10/14/92	10/27/92	11/10/92	11/23/92	12/7/92	12/21/92	1/6/93	1/20/93
Time (hrs)	335.667	335.5	311.75	329.08	317.42	334.75	334.5	381.5	333.58	311.5
Precip. (in)	1.87	1.19	0.54	1	2.74	1.34	7.99	1.53	0.5	0.46
Acenaphthene	ND	ND	ND	ND	1.7E+02	ND	ND	4.9E+02	ND	1.5E+02
Acenaphthylene	ND	ND	1.1E+02	ND	1.8E+02	2.5E+02	ND	7.1E+02	ND	1.8E+02
Anthracenes	ND	ND	2.1E+02	1.1E+02	4.2E+02	ND	9.0E+02	1.0E+03	3.0E+02	1.1E+03
Benzo[GHI]perylene	1.1E+02	ND	1.5E+02	5.6E+01	3.5E+02	ND	6.0E+02	5.2E+02	2.2E+02	5.7E+02
Biphenyl	ND	ND	1.4E+02	2.2E+02	ND	ND	ND	7.2E+02	ND	ND
Chrysenes	ND	ND	2.6E+02	8.2E+01	9.5E+02	5.8E+02	3.0E+03	1.2E+03	3.6E+02	2.5E+03
Dibenzothiophene	ND	ND	4.2E+01	1.7E+02	1.2E+03	8.7E+02	1.7E+03	7.4E+02	ND	9.7E+02
Perylene	ND	ND	ND	ND	2.5E+02	ND	ND	ND	ND	1.9E+02
Fluoranthens	1.3E+03	8.3E+02	1.3E+03	5.5E+02	2.4E+03	1.2E+03	5.9E+03	5.2E+03	1.6E+03	5.2E+03
Fluorene	ND	ND	6.7E+02	ND	1.9E+03	3.4E+03	5.6E+03	1.0E+03	ND	4.0E+03
Naphalene	2.3E+03	4.0E+03	6.7E+03	2.2E+03	6.9E+03	7.2E+03	6.2E+03	1.7E+04	1.4E+03	1.9E+03
Phenanthrenes	ND	5.9E+02	4.9E+02	5.9E+02	4.7E+03	3.3E+03	8.9E+03	5.9E+03	1.3E+03	4.2E+03
Pyrenes	5.4E+02	3.9E+02	8.7E+02	2.5E+02	1.4E+03	5.1E+02	4.0E+03	3.7E+03	1.2E+03	3.9E+03
Total Aromatics	4.3E+03	7.5E+03	1.1E+04	4.8E+03	2.3E+04	2.0E+04	3.8E+04	3.9E+04	7.3E+03	2.6E+04
BaP Equivalents	1.0E+02	4.8E+01	2.5E+02	4.7E+01	4.5E+02	1.8E+01	1.2E+03	1.0E+03	3.9E+02	1.3E+03
Percent BaP Equiv.	2.2E+01	6.6E+00	1.2E+01	1.2E+01	1.2E+01	3.5E+00	1.6E+01	1.3E+01	2.9E+01	2.4E+01
BeP	ND	ND	1.9E+02	ND	ND	ND	6.9E+02	6.4E+02	2.2E+02	6.9E+02

Wet Deposition Samples (GC-MS)

Nahant Deposition Rates [ng/m2-period]

Sample ID	856	860	864	868	872	876	880	884	888	892
Start Date	2/2/93	2/15/93	3/2/93	3/16/93	3/30/93	4/14/93	4/27/93	5/13/93	5/26/93	6/9/93
Time (hrs)	307.17	360.58	336.5	337	359.5	313.92	382.17	311.58	337.75	334.25
Precip. (in)	2.39	1.54	0.77	3.39	1.82	2.12	0.12	0.57	1.18	0.64
Acenaphthene	3.9E+02	ND	ND	ND	ND	ND	1.4E+02	ND	ND	ND
Acenaphthylene	ND	ND	ND	ND	ND	ND	1.6E+02	ND	ND	ND
Anthracenes	ND	ND	4.6E+02	ND	ND	1.7E+02	1.1E+03	1.9E+02	ND	1.1E+02
Benzo[GHI]perylene	ND	ND	3.2E+02	ND	ND	ND	7.1E+02	1.2E+02	ND	2.1E+02
Biphenyl	ND	ND	ND	ND	ND	ND	6.4E+01	ND	ND	ND
Chrysenes	1.2E+03	9.3E+02	1.2E+03	1.2E+02	ND	8.8E+02	2.5E+03	2.3E+02	1.8E+02	6.1E+02
Dibenzothiophene	1.6E+03	8.7E+02	4.3E+02	6.7E+02	2.9E+02	2.4E+02	1.2E+02	ND	2.0E+02	3.5E+02
Perylene	ND	ND	1.1E+02	ND	ND	ND	1.1E+02	ND	ND	ND
Fluoranthens	3.1E+03	1.6E+03	2.5E+03	1.2E+03	6.0E+02	1.7E+03	6.0E+03	8.1E+02	8.2E+02	1.2E+03
Fluorene	5.8E+03	3.0E+03	ND	ND	2.2E+02	5.9E+02	2.5E+02	ND	4.2E+02	6.6E+02
Naphalene	8.0E+03	3.3E+03	2.1E+02	1.5E+03	1.3E+03	1.6E+03	1.5E+03	ND	1.1E+03	1.9E+03
Phenanthrenes	6.2E+03	3.2E+03	2.2E+03	3.0E+03	1.6E+03	9.6E+02	3.5E+03	4.8E+02	5.4E+02	1.6E+03
Pyrenes	1.0E+03	6.2E+02	1.9E+03	2.8E+02	7.2E+01	6.5E+02	4.5E+03	7.9E+02	3.5E+02	9.2E+02
Total Aromatics	3.4E+04	1.7E+04	1.0E+04	6.8E+03	4.1E+03	6.8E+03	2.1E+04	3.8E+03	3.6E+03	8.0E+03
BaP Equivalents	3.3E+01	2.4E+01	6.5E+02	1.3E+02	ND	8.4E+01	1.3E+03	1.9E+02	2.9E+01	2.6E+02
Percent BaP Equiv.	4.3E+00	6.4E+00	3.0E+01	2.0E+00	ND	1.7E+01	2.9E+01	3.9E+01	7.8E+00	1.8E+01
BeP	ND	ND	3.2E+02	1.5E+02	7.2E+01	ND	8.5E+02	1.5E+02	ND	1.8E+02

Wet Deposition Samples (GC-MS)

Nahant Deposition Rates [ng/m2-period]

Sample ID	896	900	902	904	908	912
Start Date	6/23/93	7/7/93	7/22/93	8/4/93	8/18/93	9/1/93
Time (hrs)	339.75	354.08	314.75	334.33	335.58	313.17
Precip. (in)	0.09	0.33	1.03	0.58	0.34	1.55
			missing			
Acenaphthene	2.2E+01	7.8E+01		ND	ND	ND
Acenaphthylene	2.6E+01	4.5E+01		ND	ND	ND
Anthracenes	2.0E+02	1.4E+02		1.6E+02	2.0E+02	ND
Benzo[GHI]perylene	1.9E+02	1.1E+02		1.7E+02	ND	ND
Biphenyl	7.0E+01	4.1E+01		ND	ND	ND
Chrysenes	5.2E+02	1.5E+02		9.2E+02	ND	ND
Dibenzothiophene	2.2E+02	5.8E+01		4.0E+02	ND	ND
Perylene	ND	ND		ND	ND	ND
Fluoranthens	1.0E+03	5.4E+02		1.5E+03	3.8E+02	8.4E+02
Fluorene	5.0E+02	7.8E+01		ND	ND	ND
Naphalene	1.4E+03	4.3E+02		ND	3.6E+02	ND
Phenanthrenes	9.0E+02	2.6E+02		ND	ND	ND
Pyrenes	8.3E+02	5.2E+02		1.1E+03	1.9E+02	5.5E+02
Total Aromatics	5.9E+03	2.5E+03		5.6E+03	1.1E+03	1.4E+03
BaP Equivalents	2.8E+02	1.5E+02		3.6E+02	3.0E+01	2.2E+01
Percent BaP Equiv.	2.2E+01	3.1E+01		3.6E+01	1.8E+01	2.4E+01
BeP	1.7E+02	1.1E+02		2.1E+02	ND	1.6E+02

A-4.15

Appendix A-5

Truro Meteorological Data (Surface and 850 mb Levels)

See Appendix A-2

Appendix A-6

Truro Dry Deposition Rates

Appendix Order:

- INAA (Insoluble Metals Only)
- ICP-MS (Soluble and Insoluble Metals Only)
- ICP-MS (Wall Desorbed Metals Only)
- GC-MS (PAHs Only)

Dry Deposition Samples (INAA)

Truro **Deposition Rates [ng/m2-hr]**

Sample ID	602	603	608	610	612	616	620	625	629	634
Start Date	7/17/92	7/17/92	8/12/92	9/1/92	9/15/92	9/29/92	10/13/92	10/27/92	11/10/92	11/24/92
Time (hrs)	622.25	622.25	480	336	336	334.5	336	336	336	331
Precip. (in	4.2	4.2	3.65	1.36	2.19	1.47	0.84	1.04	2.89	1.55
				missing						
Fe	6.4E+03	6.4E+03	1.1E+03		6.7E+03	4.5E+03	1.7E+03	1.7E+03	2.4E+03	2.8E+04
Na	1.5E+03	1.5E+03	4.3E+02		2.1E+03	1.4E+03	5.8E+02	3.7E+02	6.3E+02	1.3E+04
K	ND	ND	ND		3.1E+03	ND	ND	ND	ND	ND
Cs	5.5E-01	5.5E-01	ND		5.8E-01	ND	ND	ND	ND	2.5E+00
Sc	1.4E+00	1.4E+00	3.0E-01		1.5E+00	1.0E+00	3.5E-01	2.4E-01	5.6E-01	7.8E+00
Cr	4.2E+01	4.2E+01	8.3E+00		2.6E+01	2.3E+01	1.1E+01	1.1E+01	2.3E+01	9.0E+01
Co	1.4E+00	1.4E+00	2.4E-01		1.4E+00	1.8E+00	9.3E-02	2.8E-02	4.0E-01	8.8E+00
Zn	8.9E+01	8.9E+01	1.1E+01		1.4E+01	4.7E+02	2.4E+01	8.7E+01	3.7E+01	1.2E+02
Ag	1.9E+00	1.9E+00	ND		1.5E+00	ND	5.8E-01	3.9E+00	1.9E+00	1.1E+01
Ga	ND	ND	ND		4.2E+00	ND	ND	ND	ND	ND
As	ND	ND	ND		3.2E+00	ND	ND	ND	ND	7.7E+00
Sb	3.0E+00	3.0E+00	1.5E+00		ND	3.3E-01	2.6E+00	ND	3.7E+00	4.1E+00
Se	2.7E+00	2.7E+00	ND		2.5E+00	1.1E+00	9.1E-01	ND	1.7E+00	2.9E+00
Br	ND	ND	ND		ND	ND	ND	ND	ND	4.3E+01
La	6.1E+00	6.1E+00	9.9E-01		1.3E+01	8.4E+00	1.5E+00	7.3E+00	2.7E+00	3.4E+01
Ce	1.3E+01	1.3E+01	1.3E+00		2.9E+01	1.7E+01	1.8E+00	6.2E+00	5.4E+00	7.1E+01
Nd	4.1E+00	4.1E+00	ND		1.2E+01	6.0E+00	ND	ND	ND	3.0E+01
Sm	1.1E+00	1.1E+00	2.1E-01		2.5E+00	1.5E+00	1.8E-01	4.8E-01	3.3E-01	5.1E+00
Eu	2.1E-01	2.1E-01	5.2E-02		2.6E-01	2.2E-01	5.1E-02	1.9E-01	5.1E-02	1.2E+00
Gd	ND	ND	ND		2.3E+00	ND	ND	ND	ND	4.6E+00
Tb	5.0E-02	5.0E-02	ND		2.9E-01	9.8E-02	ND	ND	ND	7.9E-01
Tm	ND	ND	ND		6.0E-02	ND	ND	ND	ND	ND
Yb	7.3E-02	7.3E-02	1.9E-02		2.7E-01	2.7E-01	4.6E-02	1.9E-02	1.1E-01	1.6E+00
Lu	ND	ND	ND		ND	ND	ND	ND	ND	ND
Zr	ND	ND	ND		ND	ND	1.0E+02	ND	1.6E+02	ND
Hf	3.7E-01	3.7E-01	6.2E-02		6.0E-01	4.8E-01	7.4E-02	1.5E-01	7.0E-02	1.1E+00
W	2.5E-02	2.5E-02	ND		ND	ND	ND	ND	ND	ND
Ta	2.0E-01	2.0E-01	2.6E-02		3.3E-01	2.7E-01	ND	1.4E+00	1.3E-01	1.2E+00
Ir	ND	ND	ND		3.0E-01	ND	ND	ND	ND	ND
Th	1.7E+00	1.7E+00	2.4E-01		5.8E+00	2.9E+00	2.6E-01	ND	5.8E-01	6.6E+00
U	ND	ND	ND		1.0E+00	ND	ND	ND	ND	2.2E+00
Rb	ND	ND	ND		ND	ND	ND	ND	ND	7.9E+01

Dry Deposition Samples (INAA)

Truro **Deposition Rates [ng/m2-hr]**

Sample ID	637	641	645	649	653	657	661	665	669	673
Start Date	12/8/92	12/24/92	1/7/93	1/21/93	2/4/93	2/20/93	3/3/93	3/20/93	4/8/93	4/29/93
Time (hrs)	384	336	336	336	384	264	408	456	505	622.75
Precip. (in	2.45	2.1	1.24	0.96	2.68	0.64	3.68	4.7	3.8	2.03
	Malfunct.									
Fe	3.6E+04	7.9E+03	1.3E+04	1.5E+04	1.1E+04	1.5E+04	5.8E+04	9.8E+02	3.7E+03	4.5E+03
Na	1.8E+04	3.6E+03	4.3E+03	6.3E+03	4.1E+03	5.2E+03	2.2E+04	4.0E+02	1.4E+03	2.7E+03
K	3.1E+04	ND	4.6E+03	ND	ND	ND	2.1E+04	7.3E+02	ND	2.4E+03
Cs	2.2E+00	ND	7.9E-01	1.0E+00	1.2E+00	1.1E+00	2.8E+00	ND	1.5E-01	4.8E-01
Sc	1.0E+01	2.0E+00	2.5E+00	3.7E+00	2.9E+00	3.6E+00	2.2E+01	2.2E-01	1.0E+00	1.0E+00
Cr	7.0E+01	6.1E+01	4.0E+01	6.8E+01	3.4E+01	6.4E+01	1.7E+02	1.4E+01	2.2E+01	1.5E+01
Co	1.1E+01	2.0E+00	1.9E+00	3.4E+00	2.4E+00	4.5E+00	2.2E+01	ND	1.1E+00	1.6E+00
Zn	1.2E+03	7.1E+01	1.3E+02	1.1E+02	2.5E+01	6.8E+01	8.6E+01	1.8E+01	9.9E+01	1.0E+02
Ag	1.4E+01	ND	2.9E+00	ND	ND	ND	9.3E+00	9.6E-01	1.5E+00	2.2E+00
Ga	ND	ND	ND	ND	ND	ND	1.3E+01	ND	ND	ND
As	9.8E+00	ND	3.5E+00	ND	9.5E+00	ND	7.4E+00	ND	5.5E-01	1.7E+00
Sb	2.3E+00	4.8E+00	7.1E-01	5.4E+00	1.2E+00	1.9E+00	3.7E+00	2.5E+00	4.7E+00	6.4E-01
Se	1.3E+00	4.0E-01	1.3E+00	1.4E+00	2.6E+00	2.7E+00	4.8E+00	ND	1.3E+00	3.6E-01
Br	5.8E+01	ND	ND	ND	ND	ND	1.1E+02	6.3E+01	5.0E+01	1.3E+01
La	8.2E+01	9.7E+00	2.5E+01	2.1E+01	1.2E+01	1.6E+01	5.6E+01	3.4E+00	4.0E+00	4.4E+00
Ce	2.1E+02	2.0E+01	5.3E+01	4.8E+01	3.3E+01	3.4E+01	1.4E+02	7.7E+00	9.9E+00	1.3E+01
Nd	8.8E+01	7.5E+00	1.8E+01	1.6E+01	1.5E+01	1.2E+01	4.7E+01	2.2E+00	3.7E+00	4.1E+00
Sm	1.5E+01	1.6E+00	3.3E+00	3.9E+00	3.3E+00	2.7E+00	1.0E+01	1.8E-01	6.1E-01	7.3E-01
Eu	1.6E+00	2.9E-01	4.9E-01	6.2E-01	5.8E-01	5.4E-01	1.8E+00	3.4E-02	1.2E-01	1.4E-01
Gd	1.0E+01	ND	ND	3.0E+00	ND	ND	7.9E+00	ND	ND	1.0E+00
Tb	1.4E+00	1.8E-01	3.1E-01	4.8E-01	4.4E-01	2.6E-01	1.2E+00	3.8E-02	7.7E-02	1.3E-01
Tm	ND	ND	ND	ND	ND	ND	3.8E-01	ND	ND	5.3E-02
Yb	8.9E+00	5.0E-01	5.9E-01	1.3E+00	1.4E+00	8.5E-01	2.6E+00	1.7E-02	1.6E-01	3.0E-01
Lu	1.9E+00	ND	ND	1.7E-01	ND	ND	3.7E-01	ND	ND	ND
Zr	1.2E+03	1.6E+02	1.6E+02	3.4E+02	ND	ND	5.6E+02	ND	2.1E+02	ND
Hf	5.8E+00	4.0E-01	1.2E+00	8.1E-01	1.8E+00	1.1E+00	2.7E+00	4.4E-02	3.2E-01	2.0E-01
W	ND	1.2E+00	ND	ND	ND	ND	ND	ND	ND	ND
Ta	5.1E+00	ND	8.1E-01	7.1E-01	5.0E-01	6.1E-01	1.4E+00	4.8E-02	3.8E-01	1.8E-01
Ir	3.1E-01	5.6E-02	8.4E-02	ND	ND	2.4E-02	2.2E-01	ND	ND	4.5E-02
Th	3.0E+01	2.7E+00	5.0E+00	6.4E+00	4.3E+00	3.9E+00	1.9E+01	1.7E-01	9.2E-01	9.7E-01
U	8.3E+00	ND	1.3E+00	1.5E+00	1.9E+00	ND	4.8E+00	ND	2.3E-01	5.3E-01
Rb	1.3E+02	ND	ND	4.1E+01	ND	ND	1.5E+02	ND	ND	1.2E+01

Dry Deposition Samples (INAA)

Truro **Deposition Rates [ng/m2-hr]**

Sample ID	677	681	685	689	693	697	705	709
Start Date	5/25/93	6/9/93	7/1/93	7/15/93	7/28/93	8/8/93	8/21/93	9/1/93
Time (hrs)	359	528.5	336	312	265	310.75	264	384
Precip. (in	1.22	0.47	1.07	1.08	0.31	0.17	0.04	2.22
Fe	8.9E+03	7.4E+03	3.3E+03	8.0E+03	2.9E+03	1.9E+03	3.3E+03	2.6E+03
Na	3.3E+03	2.6E+03	9.3E+02	2.8E+03	8.8E+02	ND	1.3E+03	7.7E+02
K	ND	ND	ND	ND	ND	ND	ND	ND
Cs	1.1E+00	ND	ND	5.2E-01	ND	ND	4.4E-01	ND
Sc	2.3E+00	1.7E+00	7.1E-01	1.7E+00	6.9E-01	3.7E-01	7.8E-01	6.0E-01
Cr	3.2E+01	2.8E+01	1.4E+01	3.7E+01	1.8E+01	2.5E+01	2.2E+01	2.6E+01
Co	3.8E+00	2.0E+00	6.5E-01	2.6E+00	ND	5.9E-01	4.5E-01	3.2E-01
Zn	3.3E+02	6.8E+01	2.7E+01	1.3E+02	3.3E+01	5.8E+01	1.2E+01	4.8E+01
Ag	2.1E+00	ND	ND	ND	ND	ND	ND	ND
Ga	ND	ND	ND	ND	ND	ND	ND	ND
As	ND	ND	ND	ND	ND	ND	ND	ND
Sb	1.0E+00	9.5E-01	3.1E+00	6.0E-01	6.3E-01	ND	ND	2.9E-01
Se	ND	6.8E-01	7.5E-01	1.2E+00	ND	ND	4.4E-01	5.4E-01
Br	ND	ND	ND	ND	ND	ND	ND	ND
La	1.6E+01	6.5E+00	2.6E+00	7.8E+00	3.1E+00	1.5E+00	2.3E+00	2.8E+00
Ce	3.1E+01	1.7E+01	4.7E+00	1.7E+01	4.9E+00	3.9E+00	4.1E+00	4.3E+00
Nd	1.1E+01	9.2E+00	ND	ND	ND	ND	ND	ND
Sm	3.3E+00	1.3E+00	9.3E-01	1.5E+00	7.4E-01	1.1E+00	8.6E-01	4.5E-01
Eu	4.5E-01	2.5E-01	1.3E-01	2.3E-01	1.3E-01	5.5E-02	1.2E-01	9.3E-02
Gd	ND	ND	ND	ND	ND	ND	ND	ND
Tb	2.6E-01	2.2E-01	4.2E-02	1.3E-01	7.6E-02	ND	ND	6.9E-02
Tm	ND	ND	ND	ND	ND	ND	ND	ND
Yb	6.3E-01	3.6E-01	7.4E-02	4.6E-01	1.8E-01	1.9E-01	1.9E-01	1.3E-01
Lu	ND	ND	ND	ND	ND	ND	ND	ND
Zr	ND	ND	8.1E+01	ND	ND	ND	2.0E+02	ND
Hf	7.2E-01	4.2E-01	1.6E-01	8.5E-01	1.7E-01	ND	2.1E+00	2.2E-01
W	ND	ND	ND	ND	ND	ND	ND	ND
Ta	2.9E-01	3.5E-01	1.1E-01	2.3E-01	2.1E-01	1.1E-01	8.3E-02	6.1E-02
Ir	3.5E-02	9.1E-02	ND	1.0E-02	ND	ND	ND	8.1E-03
Th	5.4E+00	1.7E+00	8.5E-01	2.1E+00	8.2E-01	9.8E-01	6.7E-01	6.9E-01
U	ND	ND	ND	ND	ND	ND	ND	ND
Rb	ND	ND	ND	ND	ND	ND	ND	ND

Dry Annua Depositio 9855 | ug/m2-yea
Truro
76674
28901
10985
5
21
324
22
794
14
6
12
17
11
96
94
205
69
17
3
7
2
0
4
0
688
6
0
3
0
26
5
99

Dry Deposition Samples, Soluble Fraction (ICP-MS)

Truro Deposition Rates [ng/m2-period]

Sample ID	602	603	608	610	612	616	620	625	629
Start Date	7/17/92	7/17/92	8/12/92	9/1/92	9/15/92	9/29/92	10/13/92	10/27/92	11/10/92
Time (hrs)	622.25	622.25	480	336	336	334.5	336	336	336
Soluble Fraction Volume (l)	0.73811	5.74478	0.44589	missing	1.75274	1.13728	2.1947	1.30193	1.68396
Cr (sol)	1.8E+04	ND	8.4E+02		ND	ND	4.3E+03	ND	2.2E+03
Mn (sol)	5.9E+04	8.0E+04	3.1E+04		1.6E+04	9.6E+04	1.3E+05	ND	2.4E+04
Co (sol)	ND	ND	ND		ND	ND	ND	ND	ND
Ni (sol)	3.8E+04	3.3E+04	5.8E+03		9.5E+03	3.5E+04	2.2E+04	1.5E+04	1.2E+04
Cu (sol)	2.0E+04	1.7E+04	3.0E+03		1.1E+03	1.0E+05	6.0E+03	2.5E+03	8.1E+03
Zn (sol)	1.1E+05	3.0E+05	5.0E+04		4.6E+04	4.9E+05	1.6E+05	7.1E+04	6.2E+04
Cd (sol)	1.5E+03	ND	2.0E+03		ND	3.5E+03	8.3E+03	ND	5.3E+03
Pb (sol)	5.3E+04	6.1E+04	5.1E+03		ND	1.1E+04	1.7E+04	1.1E+04	2.6E+04
Fe (sol)	1.3E+06	ND	1.3E+05		ND	6.6E+04	1.1E+04	ND	ND
Al (sol)	7.8E+05	1.1E+06	1.3E+05		4.8E+04	2.3E+05	2.5E+05	4.0E+04	6.6E+04

Dry Deposition Samples, Soluble Fraction (ICP-MS)

Truro Deposition Rates [ng/m2-period]

Sample ID	634	637	641	645	649	653	657	661	665
Start Date	11/24/92	12/8/92	12/24/92	1/7/93	1/21/93	2/4/93	2/20/93	3/3/93	3/20/93
Time (hrs)	331	384	336	336	336	384	264	408	456
Soluble Fraction Volume (l)	1.79357	1.41192	0.96431	0.86506	0	2.83558	2.04691	3.22449	1.6324
Cr (sol)	ND	ND	ND	4.1E+03	ND	ND	ND	ND	1.0E+03
Mn (sol)	5.1E+03	5.5E+04	2.1E+04	5.2E+04	0.0E+00	8.2E+04	4.2E+04	2.4E+05	1.8E+04
Co (sol)	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ni (sol)	1.4E+04	6.7E+03	7.3E+03	7.9E+04	0.0E+00	1.4E+04	2.2E+04	2.2E+04	6.0E+03
Cu (sol)	9.3E+02	4.4E+02	7.2E+02	2.5E+04	0.0E+00	1.3E+06	8.5E+03	3.4E+04	5.4E+03
Zn (sol)	6.0E+04	6.0E+04	7.4E+04	3.2E+05	0.0E+00	1.4E+05	1.0E+05	4.3E+05	5.1E+04
Cd (sol)	ND	2.5E+03	1.1E+03	1.6E+04	ND	ND	ND	ND	5.2E+03
Pb (sol)	ND	ND	ND	1.9E+04	0.0E+00	3.8E+04	2.5E+04	2.2E+05	1.2E+04
Fe (sol)	ND	ND	ND	4.4E+04	ND	ND	ND	ND	ND
Al (sol)	3.8E+04	1.8E+05	7.6E+04	1.5E+05	0.0E+00	8.3E+05	3.1E+05	3.7E+05	ND

Dry Deposition Samples, Soluble Fraction (ICP-MS)

Truro Deposition Rates [ng/m2-period]

Sample ID	669	673	677	681	685	689	693	697	705	709
Start Date	4/8/93	4/29/93	5/25/93	6/9/93	7/1/93	7/15/93	7/28/93	8/8/93	8/21/93	9/1/93
Time (hrs)	505	622.75	359	528.5	336	312	265	310.75	264	384
Soluble Fraction Volume (l)	1.03731	0.55049	0.45972	0.47497	0.60855	0.80006	2.00765	1.88641	0.84707	2.25277
Cr (sol)	ND	ND	7.4E+02	1.4E+04	2.8E+03	5.8E+04	4.8E+03	ND	2.4E+04	2.5E+05
Mn (sol)	5.2E+04	9.5E+04	5.3E+05	2.4E+05	6.8E+04	2.1E+04	2.2E+04	1.7E+04	4.4E+04	7.0E+04
Co (sol)	ND	ND	ND	7.5E+02	ND	2.2E+02	ND	ND	4.0E+02	7.8E+02
Ni (sol)	9.1E+03	8.5E+03	1.0E+04	1.4E+04	1.0E+04	3.6E+04	1.2E+04	1.5E+04	2.3E+04	5.0E+04
Cu (sol)	6.5E+03	5.4E+04	1.5E+04	9.9E+03	5.6E+03	3.8E+04	3.0E+03	7.9E+02	4.0E+04	1.1E+05
Zn (sol)	2.7E+05	4.9E+04	1.3E+05	7.6E+04	8.6E+04	1.7E+05	8.1E+04	6.7E+04	7.8E+04	1.6E+05
Cd (sol)	ND	ND	9.3E+02	2.5E+03	1.2E+03	4.4E+03	ND	ND	3.9E+03	1.1E+04
Pb (sol)	2.5E+03	ND	5.8E+03	8.1E+03	5.3E+03	1.5E+04	4.7E+03	3.3E+03	1.2E+04	2.3E+04
Fe (sol)	ND	ND	4.5E+04	1.2E+05	3.5E+04	5.1E+04	ND	ND	4.1E+04	4.6E+05
Al (sol)	5.5E+03	5.7E+04	2.0E+05	1.9E+05	8.9E+04	2.6E+04	ND	ND	5.8E+04	3.8E+04

Dry Deposition Samples, Desorbed Fraction Only (ICP-MS)

Truro Deposition Rates [ng/m2-period]

Date	5/25/93	6/9/93	7/1/93	7/15/93	7/28/93	8/8/93	8/21/93	9/1/93	Deposition Rates
Time (hrs)	359	528.5	336	312	265	310.75	264	384	
Dry Deposition Sample ID	677	681	685	689	693	697	705	709	Annual (ug/m2-yr)
Volume (l)	1	1	1	1	1	1	1	1	
Cr (dry)	1.4E+04	1.1E+03	7.8E+04	6.1E+04	1.7E+04	2.8E+04	2.9E+04	3.2E+04	465
Mn (dry)	4.3E+04	2.5E+04	1.0E+04	1.8E+04	7.6E+03	9.2E+03	9.9E+03	8.5E+03	286
Co (dry)	9.8E+02	ND	ND	ND	ND	ND	ND	ND	2
Ni (dry)	1.4E+05	9.7E+03	1.2E+04	1.7E+04	9.9E+03	9.5E+03	1.2E+04	8.7E+03	345
Cu (dry)	1.5E+04	4.8E+03	1.3E+04	2.2E+04	8.3E+03	1.1E+04	1.8E+04	1.7E+04	278
Zn (dry)	7.9E+04	2.6E+04	1.9E+04	2.6E+04	1.5E+04	1.4E+04	2.0E+04	1.5E+04	617
Cd (dry)	3.3E+03	3.0E+03	4.1E+03	4.1E+03	2.8E+03	4.0E+03	4.0E+03	3.4E+03	67
Pb (dry)	1.3E+04	1.1E+04	1.1E+04	1.0E+04	7.6E+03	6.6E+03	8.6E+03	7.5E+03	293
Fe (dry)	3.1E+05	1.9E+05	1.7E+05	1.1E+05	4.5E+04	7.7E+04	1.3E+05	1.1E+05	5533
Al (dry)	2.6E+05	1.8E+05	1.0E+05	6.4E+04	4.3E+04	2.5E+04	6.5E+04	5.8E+04	4428

A-6.66

Dry Deposition Samples, Desorbed Fraction Only (ICP-MS)

Truro Deposition Rates [ng/m2-period]

Date	12/8/92	12/24/92	1/7/93	1/21/93	2/4/93	2/20/93	3/3/93	3/20/93	4/8/93	4/29/93
Time (hrs)	384	336	336	336	384	264	408	456	505	622.75
Dry Deposition										
Sample ID	637	641	645	649	653	657	661	665	669	673
Volume (l)	1	1	1	1	1	missing	1	1	1	1
Cr (dry)	1.5E+03	5.9E+03	ND	7.4E+04	1.5E+04		ND	ND	ND	ND
Mn (dry)	9.5E+03	1.3E+04	ND	1.6E+04	1.1E+04		ND	ND	ND	2.9E+04
Co (dry)	ND	ND	ND	4.1E+02	ND		ND	ND	ND	ND
Ni (dry)	2.2E+04	1.1E+04	3.4E+03	1.1E+04	9.9E+03		4.7E+03	1.6E+03	1.0E+04	5.8E+03
Cu (dry)	3.3E+03	1.6E+04	ND	1.3E+04	3.2E+04		3.3E+03	9.1E+02	5.0E+03	3.8E+04
Zn (dry)	2.5E+04	2.4E+04	1.7E+04	1.9E+04	1.6E+04		4.0E+04	1.2E+04	3.6E+04	7.1E+04
Cd (dry)	5.5E+03	3.0E+03	ND	4.4E+03	2.7E+03		ND	ND	ND	ND
Pb (dry)	8.4E+03	4.7E+04	1.4E+03	1.2E+04	8.7E+03		ND	1.8E+03	3.0E+02	3.4E+03
Fe (dry)	2.9E+05	1.1E+06	8.6E+04	6.6E+05	3.9E+05		1.3E+05	1.8E+05	6.0E+04	2.3E+05
Al (dry)	2.6E+05	8.7E+05	7.6E+04	3.7E+05	2.3E+05		1.4E+05	5.4E+04	1.8E+05	3.0E+05

Dry Deposition Samples (GC-MS)

Truro Deposition Rates [ng/m2-hr]

Sample ID	613	617	621	626	630	633	638	642	646	650
Start Date	9/15/92	9/29/92	10/13/92	10/27/92	11/10/92	11/24/92	12/8/92	12/24/92	1/7/93	1/21/93
Time (hrs)	336	334.5	336	336	336	331	384	336	336	336
Precip. (in)							Malfunct			
Acenaphthene	ND	ND	ND	ND	ND	ND	ND	2.2E-01	2.8E-01	ND
Acenaphthylene	ND	1.1E+00	ND	ND	ND	1.6E+00	2.8E+00	3.1E-01	2.5E-01	ND
Anthracenes	ND	5.1E-01	3.3E-01	3.2E-01	9.0E-02	1.0E+00	4.6E-01	1.4E+00	5.7E-02	ND
Benzo[GHI]peryle	ND	3.7E-01	3.7E-01	2.1E-01	ND	3.9E-01	2.9E-01	5.2E-01	ND	ND
Biphenyl	ND	ND	ND	7.2E-01	ND	1.6E+00	5.8E-01	ND	1.1E+00	ND
Chrysenes	ND	5.0E-01	4.4E-01	3.7E-01	ND	1.1E+00	4.9E-01	1.1E+00	2.9E-01	ND
Dibenzothiophene	ND	ND	ND	ND	ND	2.7E+00	2.5E-01	1.5E+00	1.0E+00	1.3E+00
Fluoranthens	ND	2.8E+00	2.5E+00	1.3E+00	6.1E-01	8.2E+00	2.2E+00	6.2E+00	1.9E+00	3.0E-01
Fluorene	ND	ND	ND	1.1E+00	ND	1.5E+00	8.6E+00	3.8E-01	7.1E+00	2.2E-01
Naphalene	1.5E+01	2.4E+00	4.0E+00	5.9E+00	1.7E+00	1.1E+01	8.6E+00	7.7E+00	1.5E+01	6.6E+00
Perylene	ND	3.3E-01	3.3E-01	ND	ND	5.7E-01	ND	3.0E-01	ND	ND
Phenanthrenes	ND	2.1E+00	ND	ND	ND	6.4E+00	2.2E+00	9.7E+00	1.4E+01	1.7E+00
Pyrenes	ND	2.1E+00	3.6E-01	1.1E+00	ND	5.2E+00	1.8E+00	3.6E+00	1.2E+00	ND
Total Aromatics	1.5E+01	1.2E+01	8.4E+00	1.1E+01	2.4E+00	4.1E+01	2.8E+01	3.3E+01	4.2E+01	1.0E+01
BaP Equivalents	ND	8.2E-01	3.1E-01	3.6E-01	ND	5.3E-01	4.3E-01	1.1E+00	9.7E-02	ND
Fraction BaP Eqi										
BeP	ND	3.4E-01	ND	2.4E-01	ND	7.0E-01	2.7E-01	ND	1.0E-01	ND

Dry Deposition Samples (GC-MS)

Truro Deposition Rates [ng/m2-hr]

Sample ID	654	658	662	666	670	674	678	682	686	
Start Date	2/4/93	2/20/93	3/3/93	3/20/93	4/8/93	4/29/93	5/25/93	6/9/93	7/1/93	
Time (hrs)	384	264	408	456	505	622.75	359	528.5	336	
Precip. (in)								missing		
Acenaphthene	ND	ND	ND	ND	ND	8.3E-02	7.4E-01		3.9E-01	
Acenaphthylene	ND	ND	ND	ND	ND	4.9E-02	2.4E-01		5.3E-02	
Anthracenes	ND	ND	1.8E+00	2.2E-01	6.4E-01	6.6E-01	2.1E+00		4.2E-01	
Benzo[GHI]peryle	ND	ND	1.4E+00	2.4E-01	6.0E-01	6.4E-01	3.8E-01		1.4E-01	
Biphenyl	ND	ND	ND	8.9E-01	ND	2.4E-01	1.3E+00		2.9E-01	
Chrysenes	ND	ND	4.2E+00	3.7E-01	1.9E+00	1.3E+00	1.8E+00		5.5E-01	
Dibenzothiophene	2.4E+00	3.9E+00	2.0E+00	ND	7.2E-01	7.7E-02	4.4E-01		4.8E-02	
Fluoranthens	5.5E+00	5.1E+00	9.9E+00	2.2E+00	4.3E+00	4.0E+00	3.6E+00		1.7E+00	
Fluorene	7.0E+00	1.0E+01	2.4E+00	ND	9.6E-01	1.1E+00	4.5E-01		2.5E-01	
Naphalene	5.1E+00	1.0E+01	8.0E+00	1.8E+01	2.9E+00	3.7E+00	9.5E+00		1.9E+00	
Perylene	ND	ND	ND	ND	ND	6.1E-02	2.0E+00		2.1E+00	
Phenanthrenes	1.1E+01	1.3E+01	7.8E+00	3.1E+00	3.5E+00	3.8E+00	2.6E+00		1.1E+00	
Pyrenes	2.4E+00	2.3E+00	7.8E+00	1.4E+00	3.3E+00	2.7E+00	1.8E+00		1.1E+00	
Total Aromatics	3.4E+01	4.5E+01	4.5E+01	2.6E+01	1.9E+01	1.8E+01	2.7E+01		1.0E+01	
BaP Equivalents	ND	ND	3.0E+00	3.4E-01	1.0E+00	9.1E-01	1.4E+00		2.9E-01	
Fraction BaP Eqi										
BeP	ND	ND	1.3E+00	2.3E-01	5.5E-01	5.7E-01	4.4E-01		3.1E-01	

Dry Deposition Samples (GC-MS)

Truro Deposition Rates [ng/m2-hr]

Sample ID	690	698	706	710
Start Date	7/23/93	8/8/93	8/21/93	9/1/93
Time (hrs)	380	310.75	264	384
Precip. (in)	0.67			
Acenaphthene	ND	ND	ND	ND
Acenaphthylene	ND	ND	ND	ND
Anthracenes	ND	ND	ND	ND
Benzo[GHI]peryle	ND	ND	ND	ND
Biphenyl	ND	ND	ND	ND
Chrysenes	ND	ND	ND	ND
Dibenzothiophene	ND	ND	ND	ND
Fluoranthens	1.5E+00	ND	2.0E+00	ND
Fluorene	ND	ND	ND	ND
Naphalene	ND	ND	ND	3.5E+00
Perylene	ND	ND	ND	ND
Phenanthrenes	ND	ND	ND	ND
Pyrenes	1.7E+00	ND	1.8E+00	ND
Total Aromatics	3.2E+00	ND	3.7E+00	3.5E+00
BaP Equivalents	ND	ND	1.7E-01	ND
Fraction BaP Eqi				
BeP	3.0E-01	ND	4.3E-01	ND

Appendix A-7

Truro Wet Deposition Rates

Appendix Order:

INAA (Insoluble Metals Only)
ICP-MS (Soluble and Insoluble Metals Only)
ICP-MS (Wall Desorbed Metals Only)
GC-MS (PAHs Only)

Wet Deposition Samples (INAA)

Truro **Deposition Rates [ng/m2-period]**

Sample ID	802	803	808	810	812	816	820	825	829	834	837
Start Date	7/17/92	7/17/92	8/12/92	9/1/92	9/15/92	9/29/92	10/13/92	10/27/92	11/10/92	11/24/92	12/8/92
Time (hrs)	622.25	622.25	480	336	336	334.5	336	336	336	331	384
Precip. (in)	4.2	4.2	3.65	1.36	2.19	1.47	0.84	1.04	2.89	1.55	2.45
		missing		missing							
Fe	2.4E+06		2.5E+06		3.9E+05	1.7E+05	3.1E+05	2.0E+05	2.5E+06	4.1E+05	2.8E+07
Na	4.5E+05		5.3E+05		1.3E+05	2.5E+04	7.5E+04	5.5E+03	4.1E+05	7.1E+04	1.2E+07
K	ND		9.7E+05		2.1E+05	ND	ND	ND	ND	ND	ND
Cs	ND		ND		1.1E+03	ND	ND	ND	5.7E+02	ND	1.5E+03
Sc	5.3E+02		5.9E+02		6.2E+01	3.1E+01	5.6E+01	3.3E+01	6.4E+02	6.5E+01	6.2E+03
Cr	1.5E+04		2.0E+04		7.4E+03	3.7E+03	2.9E+03	1.7E+03	1.6E+04	6.9E+03	5.9E+04
Co	7.1E+02		5.6E+02		6.5E+01	ND	ND	ND	8.0E+02	1.5E+02	5.1E+03
Zn	2.7E+05		2.0E+04		2.2E+03	3.2E+03	6.8E+03	7.5E+03	2.9E+04	1.3E+04	1.4E+05
Ag	3.9E+02		5.8E+02		6.2E+02	ND	1.1E+02	ND	9.8E+01	ND	7.5E+03
Br	ND		ND		ND	ND	ND	ND	ND	ND	ND
As	ND		5.9E+02		ND	ND	ND	ND	ND	ND	8.5E+03
Sb	1.0E+04		2.0E+02		ND	3.0E+01	1.1E+02	8.1E+01	1.1E+03	1.8E+02	2.3E+03
Se	3.3E+03		2.2E+03		5.1E+02	ND	5.4E+02	1.6E+02	2.3E+03	1.1E+03	1.6E+03
La	3.1E+03		2.4E+03		1.1E+02	9.4E+00	2.7E+01	3.8E+02	3.3E+03	2.9E+02	3.5E+04
Ce	5.5E+03		3.8E+03		1.6E+02	ND	ND	3.9E+02	5.8E+03	ND	7.9E+04
Nd	ND		ND		ND	ND	ND	ND	1.6E+03	ND	3.2E+04
Sm	5.6E+02		4.5E+02		3.6E+01	9.7E+01	ND	ND	3.2E+02	1.2E+02	6.1E+03
Eu	5.8E+01		6.5E+01		ND	9.4E+00	ND	ND	7.5E+01	6.2E+00	1.1E+03
Gd	ND		ND		ND	ND	ND	ND	ND	ND	5.5E+03
Tb	3.9E+01		3.1E+01		ND	ND	ND	ND	3.3E+01	ND	1.1E+03
Tm	ND		6.1E+01		ND	ND	ND	ND	ND	ND	ND
Yb	1.2E+02		9.2E+01		ND	ND	ND	ND	1.0E+02	ND	2.4E+03
Hf	5.3E+01		5.3E+01		9.4E+00	7.8E+00	1.6E+01	ND	6.9E+01	ND	3.6E+03
Ta	8.3E+01		1.3E+02		1.9E+01	ND	ND	ND	7.0E+01	1.4E+01	2.0E+03
Ir	ND		1.8E+02		6.4E+02	1.2E+01	ND	ND	5.9E+01	ND	2.0E+02
Th	5.6E+02		5.6E+02		ND	ND	ND	ND	5.1E+02	3.7E+01	1.3E+04
U	ND		2.8E+02		ND	ND	ND	ND	ND	ND	3.8E+03
Rb	ND		ND		ND	ND	ND	ND	ND	ND	8.0E+04

Wet Deposition Samples (INAA)

Truro Deposition Rates [ng/m2-period]

Sample ID	841	845	849	853	857	861	865	869	873	877	881
Start Date	12/24/92	1/7/93	1/21/93	2/4/93	2/20/93	3/3/93	3/20/93	4/8/93	4/29/93	5/25/93	6/9/93
Time (hrs)	336	336	336	384	264	408	456	505	622.75	359	528.5
Precip. (in)	2.1	1.24	0.96	2.68	0.64	3.68	4.7	3.8	2.03	1.22	0.47
Fe	4.7E+05	7.7E+05	4.1E+06	2.0E+06	4.3E+05	2.8E+07	7.0E+05	9.5E+05	1.4E+06	1.3E+06	3.0E+05
Na	2.7E+05	1.7E+05	1.4E+06	5.3E+05	1.8E+05	1.0E+07	2.5E+05	2.2E+05	4.5E+05	2.7E+05	6.4E+04
K	ND	ND	ND	ND	ND	1.1E+07	ND	ND	ND	ND	ND
Cs	ND	ND	ND	ND	ND	1.1E+03	ND	1.4E+02	1.1E+02	1.5E+02	ND
Sc	1.7E+02	1.1E+02	9.3E+02	4.4E+02	9.5E+01	9.4E+03	1.6E+02	2.4E+02	3.8E+02	3.2E+02	1.1E+02
Cr	1.5E+04	2.8E+03	2.6E+04	6.0E+03	3.0E+03	6.7E+04	1.4E+04	6.7E+03	7.2E+03	1.2E+04	5.3E+03
Co	7.2E+01	9.0E+01	1.1E+03	4.1E+02	1.6E+01	9.4E+03	ND	9.8E+01	2.8E+02	2.2E+02	1.1E+02
Zn	2.3E+04	8.9E+03	2.3E+04	1.5E+04	ND	7.1E+04	2.7E+04	7.5E+03	7.6E+03	1.0E+04	4.7E+01
Ag	ND	3.4E+02	ND	ND	ND	4.7E+03	1.3E+03	3.9E+02	3.2E+02	ND	ND
Br	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
As	ND	ND	ND	9.7E+02	ND	5.7E+03	ND	ND	3.3E+02	ND	ND
Sb	6.4E+02	1.6E+03	1.1E+03	3.0E+02	9.4E+02	1.4E+03	6.8E+02	2.4E+02	1.1E+03	7.1E+02	5.2E+02
Se	9.2E+02	ND	7.8E+01	7.3E+02	3.1E+02	3.3E+03	3.8E+02	9.5E+02	7.1E+02	1.1E+03	ND
La	9.3E+02	7.3E+02	3.8E+03	1.3E+03	8.7E+01	3.3E+04	2.2E+03	1.4E+03	1.4E+03	1.2E+03	2.2E+02
Ce	3.4E+02	1.3E+03	8.5E+03	2.1E+03	3.4E+02	7.5E+04	4.8E+03	3.0E+03	2.7E+03	2.7E+03	2.3E+02
Nd	ND	ND	2.7E+03	1.5E+03	ND	3.4E+04	1.0E+03	9.4E+02	1.1E+03	1.2E+03	ND
Sm	ND	1.4E+02	8.0E+02	2.6E+02	6.9E+01	6.1E+03	1.1E+02	2.5E+02	1.9E+02	2.3E+02	7.5E+01
Eu	ND	2.0E+01	1.6E+02	4.7E+01	9.4E+00	1.1E+03	1.1E+01	3.6E+01	3.7E+01	3.9E+01	ND
Gd	ND	ND	ND	ND	ND	4.8E+03	ND	ND	ND	ND	ND
Tb	ND	ND	3.7E+01	2.5E+01	ND	7.4E+02	ND	1.7E+01	2.5E+01	2.5E+01	ND
Tm	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Yb	8.3E+01	2.2E+01	2.3E+02	9.0E+01	1.6E+01	1.9E+03	4.1E+01	4.7E+01	3.3E+01	8.9E+01	ND
Hf	8.1E+01	3.6E+01	2.8E+02	9.7E+01	4.4E+01	1.9E+03	2.2E+01	2.8E+01	3.4E+01	7.3E+01	ND
Ta	3.3E+02	2.9E+02	2.4E+02	9.0E+01	ND	3.3E+03	ND	4.1E+01	7.5E+01	7.8E+01	4.5E+01
Ir	ND	ND	ND	ND	ND	ND	ND	2.8E+01	ND	ND	ND
Th	1.0E+02	1.8E+02	8.3E+02	3.9E+02	9.8E+01	9.6E+03	9.8E+01	4.7E+02	4.1E+02	2.9E+02	ND
U	ND	ND	ND	ND	ND	2.4E+03	ND	5.3E+01	1.6E+02	ND	ND
Rb	ND	ND	ND	ND	ND	3.8E+04	ND	ND	ND	ND	ND

Wet Deposition Samples (INAA)

Truro **Deposition Rates [ng/m2-period]**

Sample ID	885	889	893	897	905	909	Annual Deposition Rates ng/m2-yr
Start Date	7/1/93	7/15/93	7/28/93	8/8/93	8/21/93	9/1/93	
Time (hrs)	336	312	265	310.75	264	384	
Precip. (in)	1.07	1.08	0.31	0.17	0.04	2.22	
Fe	2.9E+05	6.8E+05	1.4E+05	2.4E+05	1.0E+05	1.0E+06	46953.1
Na	6.1E+04	1.3E+05	2.8E+04	ND	4.3E+04	1.5E+05	14538.3
K	ND	ND	ND	ND	ND	ND	10904.8
Cs	ND	ND	ND	ND	ND	ND	2.9
Sc	8.3E+01	1.4E+02	3.1E+01	6.1E+01	2.2E+01	2.0E+02	13.6
Cr	3.2E+03	1.8E+03	2.3E+03	2.9E+03	2.4E+03	1.7E+04	244.9
Co	3.1E+00	4.4E+01	ND	ND	ND	1.3E+02	13.0
Zn	9.4E+02	1.8E+03	1.1E+03	ND	ND	1.2E+04	510.9
Ag	ND	1.6E+02	ND	ND	ND	ND	8.2
Br	ND	ND	ND	ND	ND	ND	0.0
As	ND	ND	ND	ND	ND	ND	6.9
Sb	ND	ND	ND	5.0E+02	ND	8.8E+02	20.5
Se	ND	ND	ND	ND	ND	1.4E+03	18.2
La	2.8E+02	4.6E+02	ND	2.4E+02	ND	1.0E+03	53.3
Ce	6.7E+02	5.1E+02	ND	ND	ND	2.2E+03	109.6
Nd	ND	ND	ND	ND	ND	ND	39.8
Sm	4.5E+01	6.4E+01	2.5E+01	5.8E+01	ND	1.4E+02	9.2
Eu	1.2E+01	1.7E+01	4.7E+00	ND	ND	3.0E+01	1.6
Gd	ND	ND	ND	ND	ND	ND	4.4
Tb	ND	ND	ND	ND	ND	ND	0.9
Tm	ND	ND	ND	ND	ND	ND	0.1
Yb	ND	2.3E+01	7.8E+00	ND	ND	2.0E+01	2.7
Hf	ND	2.2E+01	ND	ND	ND	3.9E+01	2.6
Ta	ND	2.7E+02	8.3E+01	2.3E+01	ND	1.3E+02	4.8
Ir	ND	ND	ND	ND	ND	ND	0.8
Th	1.0E+02	9.2E+01	ND	1.5E+02	ND	2.3E+02	13.4
U	ND	ND	ND	ND	ND	ND	2.6
Rb	ND	ND	ND	ND	ND	ND	34.6

Wet Deposition Samples, Soluble (ICP-MS)

Truro Deposition Rates [ng/m2-period]

Sample ID	802	803	808	810	812	816	820	825	829
Start Date	7/17/92	7/17/92	8/12/92	9/1/92	9/15/92	9/29/92	10/13/92	10/27/92	11/10/92
Time (hrs)	622.25	622.25	480	336	336	334.5	336	336	336
Soluble Fraction Volume (l)	6.83787	missing	5.9366	missing	3.55692	2.38931	1.36604	1.69543	5.11103
Cr (sol)	ND		1.1E+04		1.1E+04	4.3E+03	2.0E+03	ND	4.5E+03
Mn (sol)	ND		ND		3.2E+04	2.4E+04	1.0E+04	ND	1.1E+07
Co (sol)	ND		ND		ND	ND	ND	ND	ND
Ni (sol)	2.4E+04		1.7E+04		1.7E+04	6.4E+03	2.6E+04	4.6E+03	1.5E+04
Cu (sol)	3.0E+03		ND		1.2E+03	2.1E+03	7.4E+03	ND	ND
Zn (sol)	1.6E+05		1.7E+05		5.4E+04	6.5E+04	6.8E+04	4.2E+04	2.1E+05
Cd (sol)	ND		ND		1.1E+04	8.3E+03	ND	ND	1.5E+04
Pb (sol)	2.6E+05		ND		2.2E+04	1.7E+04	1.3E+04	ND	2.8E+04
Fe (sol)	ND		ND		ND	ND	3.5E+03	ND	ND
Al (sol)	5.6E+05		1.1E+05		ND	ND	9.2E+04	ND	1.4E+05

Wet Deposition Samples, Soluble (ICP-MS)

Truro Deposition Rates [ng/m2-period]

Sample ID	834	837	841	845	849	853	857	861	865
Start Date	11/24/92	12/8/92	12/24/92	1/7/93	1/21/93	2/4/93	2/20/93	3/3/93	3/20/93
Time (hrs)	331	384	336	336	336	384	264	408	456
Soluble Fraction Volume (l)	2.5236	3.99008	3.42041	2.01947	1.5747	4.36302	1.04114	6.00068	7.65126
Cr (sol)	4.2E+03	3.2E+04	ND	6.2E+03	1.3E+05	ND	ND	ND	1.3E+05
Mn (sol)	ND	8.1E+05	ND	2.2E+04	8.5E+04	1.4E+04	7.3E+03	5.4E+04	7.1E+04
Co (sol)	ND	ND	ND	ND	1.4E+03	ND	ND	ND	ND
Ni (sol)	4.4E+04	5.0E+04	1.1E+04	6.8E+03	3.7E+04	1.4E+04	7.3E+03	1.5E+04	7.8E+04
Cu (sol)	6.5E+03	8.5E+04	ND	1.5E+03	8.2E+04	3.4E+04	3.4E+03	1.5E+05	8.2E+04
Zn (sol)	9.7E+04	8.5E+05	7.2E+04	4.2E+04	2.3E+05	1.5E+05	5.9E+04	3.3E+05	1.7E+05
Cd (sol)	ND	4.1E+04	ND	5.9E+03	8.8E+03	ND	ND	ND	2.5E+04
Pb (sol)	7.2E+03	2.7E+04	2.4E+04	2.0E+04	8.3E+04	3.7E+04	1.3E+04	3.2E+04	7.5E+04
Fe (sol)	ND	4.6E+04	ND	ND	2.1E+05	ND	ND	ND	ND
Al (sol)	ND	8.7E+05	ND	7.0E+04	7.5E+05	1.8E+05	3.6E+05	1.0E+06	ND

Wet Deposition Samples, Soluble (ICP-MS)

Truro Deposition Rates [ng/m2-period]

Sample ID	869	873	877	881	885	889	893	897	905
Start Date	4/8/93	4/29/93	5/25/93	6/9/93	7/1/93	7/15/93	7/28/93	8/8/93	8/21/93
Time (hrs)	505	622.75	359	528.5	336	312	265	310.75	264
Soluble Fraction Volume (l)	6.19359	3.29523	1.98371	0.75763	1.74493	1.75689	0.49916	0.27335	0.05533
Cr (sol)	ND	ND	ND	2.5E+04	1.4E+05	1.3E+05	7.6E+03	ND	4.3E+03
Mn (sol)	ND	8.5E+04	6.4E+04	1.8E+04	1.3E+04	4.1E+04	6.4E+03	1.3E+04	1.0E+03
Co (sol)	ND	ND	ND	ND	ND	ND	ND	ND	1.6E+01
Ni (sol)	2.4E+04	1.5E+04	6.5E+03	9.4E+03	3.2E+04	4.2E+04	7.7E+03	5.9E+03	1.2E+03
Cu (sol)	ND	ND	1.2E+03	8.7E+03	1.7E+04	2.3E+04	4.3E+03	4.5E+03	1.4E+03
Zn (sol)	1.2E+05	1.1E+05	1.1E+05	2.9E+04	2.2E+04	6.8E+04	2.5E+04	5.5E+04	5.7E+03
Cd (sol)	ND	ND	ND	3.4E+03	6.6E+03	8.7E+03	1.6E+03	5.0E+02	3.4E+02
Pb (sol)	ND	ND	1.6E+04	9.5E+03	1.2E+04	2.3E+04	4.7E+03	1.1E+04	1.3E+03
Fe (sol)	ND	ND	ND	3.4E+04	1.3E+05	6.6E+04	ND	9.8E+04	8.4E+03
Al (sol)	ND	1.2E+05	9.7E+04	9.8E+04	3.7E+04	1.2E+05	1.9E+04	9.3E+04	9.8E+03

Wet Deposition Samples, Soluble (ICP-MS)

Truro	Deposition Rates [ng/m2-period]
Sample ID	909
Start Date	9/1/93
Time (hrs)	384
Soluble Fraction	
Volume (l)	3.60798
Cr (sol)	2.8E+05
Mn (sol)	4.8E+04
Co (sol)	ND
Ni (sol)	4.5E+04
Cu (sol)	5.0E+04
Zn (sol)	1.5E+05
Cd (sol)	1.6E+04
Pb (sol)	5.3E+04
Fe (sol)	2.0E+05
Al (sol)	1.3E+05

Wet Deposition Samples, Desorbed Fraction Only (ICP-MS)

Truro Deposition Rates [ng/m2-period]

Date	7/17/92	7/17/92	8/12/92	9/1/92	9/15/92	9/29/92	10/13/92	10/27/92	11/10/92	11/24/92
Time (hrs)	622.25	622.25	480	336	336	334.5	336	336	336	331
Wet Deposition Sample ID	802	803	808	810	812	816	820	825	829	834
Volume (l)	1	missing	1	missing	1	1	1	1	1	1
Cr (wet)	5.8E+02		ND		2.0E+03	4.0E+02	ND	1.6E+03	2.0E+03	2.6E+03
Mn (wet)	ND		ND		5.1E+03	ND	ND	4.2E+03	1.8E+05	ND
Co (wet)	ND		ND		ND	ND	ND	ND	ND	ND
Ni (wet)	3.6E+03		3.4E+02		3.8E+03	ND	4.9E+02	3.6E+03	5.3E+03	3.7E+03
Cu (wet)	1.6E+03		ND		6.1E+02	ND	ND	ND	1.7E+03	ND
Zn (wet)	9.8E+03		9.4E+03		2.9E+04	1.6E+04	6.9E+03	5.5E+03	1.2E+04	1.2E+04
Cd (wet)	ND		ND		2.9E+03	ND	ND	3.0E+03	2.9E+03	ND
Pb (wet)	ND		5.0E+02		5.9E+03	2.8E+03	ND	5.5E+03	9.9E+03	4.6E+02
Fe (wet)	5.4E+04		ND		5.0E+03	5.9E+04	ND	ND	5.4E+04	ND
Al (wet)	2.3E+04		6.8E+03		4.9E+03	ND	ND	ND	7.5E+04	ND

Wet Deposition Samples, Desorbed Fraction Only (ICP-MS)

Truro Deposition Rates [ng/m2-period]

Date	12/8/92	12/24/92	1/7/93	1/21/93	2/4/93	2/20/93	3/3/93	3/20/93	4/8/93	4/29/93
Time (hrs)	384	336	336	336	384	264	408	456	505	622.75
Wet Deposition Sample ID	837	841	845	849	853	857	861	865	869	873
Volume (l)	1	1	1	1	1	1	1	1	1	1
Cr (wet)	4.5E+02	2.4E+03	ND	ND	1.2E+03	3.5E+03	ND	7.0E+04	ND	ND
Mn (wet)	1.7E+03	ND	ND	ND	4.8E+03	1.6E+03	ND	8.4E+03	ND	ND
Co (wet)	ND	ND	ND	ND	ND	ND	ND	1.6E+02	ND	ND
Ni (wet)	ND	1.7E+03	4.8E+03	2.4E+03	1.7E+03	2.5E+03	4.7E+03	1.0E+04	1.1E+03	1.6E+03
Cu (wet)	1.1E+03	ND	ND	3.5E+03	4.6E+02	7.9E+03	1.9E+03	1.3E+04	ND	2.8E+03
Zn (wet)	2.2E+04	4.7E+03	7.9E+03	1.5E+04	6.0E+03	1.2E+04	2.7E+04	1.5E+04	8.1E+03	8.4E+03
Cd (wet)	2.1E+03	ND	ND	ND	2.6E+03	ND	ND	4.3E+03	ND	ND
Pb (wet)	3.5E+03	7.3E+02	ND	2.7E+04	4.9E+03	4.2E+02	ND	8.9E+03	1.9E+03	3.2E+03
Fe (wet)	1.6E+05	1.4E+05	ND	3.1E+05	7.6E+04	4.4E+04	8.4E+04	2.0E+05	1.8E+05	4.4E+05
Al (wet)	1.9E+05	3.0E+04	3.0E+04	1.8E+05	3.0E+04	5.5E+04	7.0E+04	1.1E+05	1.5E+05	4.9E+05

Wet Deposition Samples, Desorbed Fraction Only (ICP-MS)

Truro Deposition Rates [ng/m2-period]

Date	5/25/93	6/9/93	7/1/93	7/15/93	7/28/93	8/8/93	8/21/93	9/1/93	Deposition Rates
Time (hrs)	359	528.5	336	312	265	310.75	264	384	
Wet Deposition Sample ID	877	881	885	889	893	897	905	907	
Volume (l)	1	1	missing	1	1	1	1	1	
Cr (wet)	ND	7.9E+04		3.2E+04	4.2E+02	ND	2.6E+03	1.7E+04	225
Mn (wet)	ND	7.3E+03		9.2E+03	4.6E+03	ND	ND	6.6E+03	237
Co (wet)	ND	ND		ND	ND	ND	ND	ND	0
Ni (wet)	1.1E+03	9.5E+03		1.0E+04	2.0E+03	2.9E+03	1.3E+03	7.8E+03	85
Cu (wet)	ND	9.7E+03		1.2E+04	ND	ND	ND	6.2E+03	63
Zn (wet)	7.5E+03	1.1E+04		1.3E+04	9.4E+03	2.1E+04	8.2E+03	1.1E+04	300
Cd (wet)	ND	4.1E+03		4.0E+03	2.8E+03	ND	ND	2.8E+03	33
Pb (wet)	9.5E+02	7.3E+03		9.4E+03	5.2E+03	ND	1.1E+03	6.5E+03	109
Fe (wet)	7.5E+04	1.0E+05		2.5E+05	ND	ND	ND	ND	2259
Al (wet)	4.1E+04	5.9E+04		1.1E+05	2.7E+03	ND	4.0E+03	ND	1691

Wet Deposition Samples (GC-MS)

Truro Deposition Rates [ng/m2-period]

Sample ID	813	817	821	826	830	833	838	842	846	850
Start Date	9/15/92	9/29/92	10/13/92	10/27/92	11/10/92	11/24/92	12/8/92	12/24/92	1/7/93	1/21/93
Time (hrs)	336	334.5	336	336	336	331	384	336	336	336
Precip. (in)	2.19	1.47	0.84	1.04	2.89	1.55	2.45	2.1	1.24	0.96
Acenaphthene	ND	ND	ND	ND	ND	1.1E+02	ND	ND	ND	1.5E+02
Acenaphthylene	ND	ND	ND	ND	3.1E+02	ND	ND	ND	ND	ND
Anthracenes	ND	ND	ND	ND	3.2E+01	7.9E+01	ND	3.9E+01	1.2E+02	6.9E+02
Benzo[GHI]perylene	ND	ND	1.3E+02	8.7E+01	ND	1.4E+02	ND	ND	ND	4.6E+02
Biphenyl	ND	ND	4.4E+02	ND	ND	ND	ND	ND	ND	ND
Chrysenes	ND	ND	3.6E+02	1.7E+02	2.4E+02	4.5E+02	ND	ND	ND	8.6E+02
Dibenzothiophene	ND	ND	ND	ND	ND	6.8E+02	ND	4.1E+02	ND	6.3E+02
Perylene	ND	ND	ND	ND	1.0E+02	5.0E+01	ND	ND	ND	ND
Fluoranthens	ND	ND	1.4E+03	9.7E+02	7.6E+02	1.5E+03	ND	2.3E+02	9.2E+02	4.5E+03
Fluorene	ND	ND	ND	ND	ND	1.0E+03	ND	1.8E+03	ND	ND
Naphalene	1.6E+04	2.0E+04	9.2E+03	5.8E+03	5.5E+03	9.4E+03	7.9E+03	1.1E+04	7.4E+02	2.0E+03
Phenanthrenes	ND	ND	ND	ND	ND	2.7E+03	ND	1.2E+03	2.1E+02	3.7E+03
Pyrenes	ND	ND	4.0E+02	1.2E+03	ND	5.4E+02	ND	ND	7.8E+02	3.1E+03
Total Aromatics	1.8E+04	2.1E+04	1.3E+04	9.8E+03	1.0E+04	1.8E+04	7.9E+03	1.7E+04	2.8E+03	1.8E+04
BaP Equivalents	ND	ND	1.3E+02	8.5E+02	3.2E+01	7.9E+01	ND	ND	2.1E+02	8.1E+02
Percent BaP Equiv.	ND	ND	1.3E+01	2.1E+01	7.9E+00	6.9E+00	ND	ND	2.5E+01	2.5E+01
BeP	ND	ND	ND	ND	ND	ND	ND	ND	1.3E+02	4.5E+02

Wet Deposition Samples (GC-MS)

Truro Deposition Rates [ng/m2-period]

Sample ID	854	858	862	866	870	874	878	882	886	890
Start Date	2/4/93	2/20/93	3/3/93	3/20/93	4/8/93	4/29/93	5/25/93	6/9/93	7/1/93	7/23/93
Time (hrs)	384	264	408	456	505	622.75	359	528.5	533.25	380
Precip. (in)	2.68	0.64	3.68	4.7	3.8	2.03	1.22	0.47	1.6	0.75
					missing					missing
Acenaphthene	ND	6.7E+01	ND	ND		ND	ND	ND	ND	
Acenaphthylene	ND	ND	ND	ND		ND	ND	ND	ND	
Anthracenes	3.3E+02	7.0E+02	ND	ND		ND	ND	4.1E+01	ND	
Benzo[GHI]perylene	3.4E+02	ND	ND	ND		ND	ND	6.6E+01	ND	
Biphenyl	ND	2.0E+02	ND	ND		ND	ND	ND	ND	
Chrysenes	7.4E+02	7.6E+01	ND	ND		3.5E+02	1.6E+02	2.0E+02	ND	
Dibenzothiophene	1.1E+03	5.1E+02	ND	1.3E+02		2.7E+02	1.9E+02	1.2E+02	ND	
Perylene	1.5E+02	5.4E+01	ND	ND		ND	ND	ND	ND	
Fluoranthens	3.2E+03	8.2E+01	ND	ND		1.7E+02	3.3E+02	3.8E+02	2.5E+02	
Fluorene	3.1E+03	1.7E+02	ND	ND		3.4E+02	2.5E+02	1.6E+02	ND	
Naphalene	3.0E+03	7.3E+03	5.4E+02	6.5E+02		1.3E+04	7.2E+03	2.2E+03	1.3E+03	
Phenanthrenes	4.8E+03	1.9E+02	ND	4.0E+02		6.2E+02	5.5E+02	6.1E+02	6.2E+02	
Pyrenes	1.6E+03	5.9E+01	ND	ND		ND	ND	1.5E+02	3.0E+02	
Total Aromatics	2.0E+04	9.6E+03	5.4E+02	1.2E+03		1.8E+04	1.0E+04	4.6E+03	2.5E+03	
BaP Equivalents	5.1E+02	6.9E+01	ND	ND		ND	ND	2.0E+01	ND	
Percent BaP Equiv.	1.6E+01	1.8E+00	ND	ND		ND	ND	5.9E+00	ND	
BeP	ND	ND	ND	ND		ND	ND	ND	8.1E+01	

Wet Deposition Samples (GC-MS)

Truro

		Deposition Rates [ng/m2-pe		
Sample ID		898	906	910
Start Date		8/8/93	8/21/93	9/1/93
Time (hrs)		310.75	264	384
Precip. (in)		0.17	0.04	2.22
				missing
Acenaphthene		1.1E+02	4.1E+02	
Acenaphthylene		4.3E+01	6.6E+01	
Anthracenes		1.3E+02	8.2E+02	
Benzo[GHI]perylene		1.6E+02	1.5E+02	
Biphenyl		ND	4.3E+03	
Chrysenes		1.8E+02	5.7E+02	
Dibenzothiophene		ND	1.9E+02	
Perylene		ND	4.2E+02	
Fluoranthens		7.6E+02	6.9E+02	
Fluorene		7.5E+01	3.6E+02	
Naphalene		1.4E+03	3.1E+03	
Phenanthrenes		5.4E+02	6.9E+02	
Pyrenes		8.4E+02	6.7E+02	
Total Aromatics		4.5E+03	1.2E+04	
BaP Equivalents		2.1E+02	3.3E+02	
Percent BaP Equiv.		2.7E+01	1.1E+01	
BeP		2.3E+02	5.7E+01	

Appendix A-8

INAA Analysis Results (Metals Only)

Appendix Order:

- INAA Recovery of Standard Materials
- Nahant Dry Deposition
- Truro Dry Deposition
- Nahant Wet Deposition
- Truro Wet Deposition
- PM-10 Particles

Replicate INAA analyses of SRM1646 (ng)

	A2	A3	A4	A5	A6	A7	A8	A9	A10	A11	A12	A13	A14	A15	A16	A17
Na	1.85	1.97	1.83	1.97	1.86	2.00	1.86	1.98	2.06	2.03	1.98	1.93	1.93	1.89	1.82	1.89
Fe	3.21	3.51	3.68	3.24	3.25	3.44	3.57	3.67	3.32	3.35	3.33	3.40	3.36	3.38	3.12	3.25
Cs	3.42	4.20	3.59	3.99	4.35	3.19	3.72	3.62	3.41	3.78	3.93	4.60	4.20	4.56	3.40	3.84
Ba							387.			427.						
Sc	9.55	10.7	10.9	9.35	8.95	10.8	9.94	10.9	9.79	10.0	9.42	9.84	9.63	9.72	9.29	9.38
Cr	66.0	75.0	82.0	70.0	68.0	76.0	76.0	85.0	73.9	76.5	77.6	78.8	78.5	82.2	75.8	84.5
Co	8.72	9.20	10.3	8.83	8.84	10.1	9.99	10.4	9.27	9.27	8.95	8.82	9.65	9.27	8.82	9.45
Zn	134.	211.	227.	169.			137.	139.	148.	125.	139.		141.	166.	159.	171.
Ag	13.4					14.4	12.4	15.1					15.2			
As	9.22	9.57	10.5	10.3	11.8	10.4	10.5	11.0	11.6	9.50	9.26	11.6		7.81		11.1
Sb	0.57		0.51	0.48	0.80	0.77		0.47			0.45	0.71	0.71			
Se	0.81				1.97	1.40		1.94	0.81				1.10	1.27		
La	35.9	38.1	37.0	37.0	34.3	39.0	36.3	42.5	37.3	38.3	33.1	33.5	46.3	32.8	34.6	38.3
Ce	82.9	85.3	83.7	81.0	79.6	88.1	81.0	103.	84.1	89.2	71.2	76.1	96.3	77.2	72.1	83.6
Nd	31.0		34.5	30.8	35.8	33.9	38.5	32.7	28.4	32.7	36.0	30.0	38.2	35.4	32.7	34.0
Sm	6.70	7.48	6.71	6.63	6.72	7.36	7.28	8.59	6.58	7.48	6.55	6.61	7.77	6.57	6.43	7.45
Eu	1.45	1.52	1.64	1.21	1.48	1.48	1.64	1.64	1.43	1.40	1.39	1.54	1.63	1.67	1.29	1.32
Gd		7.10	7.00			6.00	6.60	7.90	9.74	8.05		7.80				
Tb	0.95	0.99	0.86	1.05	0.97	0.87	1.05	1.05	1.09	0.90	0.88	0.73	0.89	1.01	0.80	0.83
Yb	1.69	2.27	1.94	1.79	1.83	1.95	2.15	2.63	2.99	2.34	2.08	2.91	2.36	2.38	2.28	2.60
Lu	0.56		0.33	0.39	0.27	0.45		0.41	0.44	0.42	0.41		0.34		0.53	
Zr	407.		584.	378.		427.	511.	552.			318.					
Hf	1.62	2.22	1.83	1.68	2.54	1.86	2.18	2.87	1.78	2.67	1.87	2.38	2.96	2.35	2.49	2.69
Ta	1.03	1.02	0.95	1.00	1.12	1.05	1.09	0.94	0.77	0.90	0.86	1.06	0.99	1.00	0.98	1.00
Ir			0.28	0.31	0.42	0.25	0.29	0.31	0.34	0.27	0.30	0.18	0.18		0.15	0.20
Th	9.01	9.71	8.88	8.95	8.71	9.41	9.18	9.59	8.87	9.70	8.50	9.52	9.51		9.13	10.9
U	2.27	3.42	2.13	2.94	2.48	2.60	3.36	2.19	3.09	3.44	3.21	2.60	1.18		2.89	

	A18	A19	A20	A21	A22	A23	Avg.	S.D.	% Error
Na	1.98	1.87	1.78	1.82	2.03	1.94	**1.92**	**0.08**	**4.11**
Fe	3.40	3.14	2.91	3.17	3.22	3.28	**3.33**	**0.18**	**5.43**
Cs	3.27	3.89	3.85	3.85	4.00		**3.84**	**0.39**	**10.26**
Ba	369.	525.					**427.**	**69.69**	**16.32**
Sc	10.2	9.35	8.83	9.79	9.24	9.42	**9.77**	**0.60**	**6.17**
Cr	64.1	101.	77.2	77.0	80.9	79.1	**77.5**	**7.55**	**9.75**
Co	11.1	8.76	8.59	8.64	8.76	8.67	**9.29**	**0.69**	**7.45**
Zn	125.	152.	199.	160.	123.	192.	**159.**	**30.15**	**18.99**
Ag							**14.1**	**1.20**	**8.50**
As	9.63	9.63	9.34	9.87			**10.1**	**1.03**	**10.16**
Sb							**0.61**	**0.14**	**22.93**
Se	1.40	1.38	0.81	1.13	1.49		**1.29**	**0.39**	**30.51**
La	39.5	41.0	35.2	36.5	30.8	38.8	**37.1**	**3.47**	**9.35**
Ce	82.3	95.8	88.2	83.6	71.2	84.3	**83.6**	**7.91**	**9.46**
Nd	35.6	35.4	40.2	33.2	33.8	37.2	**34.3**	**2.93**	**8.53**
Sm	7.33	7.54	7.38	6.82	6.63	7.33	**7.09**	**0.54**	**7.59**
Eu	1.72	1.58	1.34	1.38	1.35	1.44	**1.48**	**0.14**	**9.43**
Gd	7.72		7.46	6.50	6.56		**7.37**	**0.99**	**13.43**
Tb	1.01	0.99	0.85	0.92	0.87	0.88	**0.93**	**0.09**	**10.07**
Yb	2.86	2.38	2.10	2.45	1.93	2.30	**2.28**	**0.36**	**15.85**
Lu	0.41		0.46	0.35			**0.41**	**0.08**	**18.65**
Zr	444.		553.	592.	373.		**467.**	**95.16**	**20.37**
Hf	2.34	3.12	2.43	2.41	2.22	2.32	**2.31**	**0.41**	**17.91**
Ta	0.82	0.85	0.89	0.90	0.85		**0.96**	**0.09**	**9.85**
Ir	0.25	0.21	0.20	0.14		0.14	**0.25**	**0.08**	**31.21**
Th	9.77	9.95	7.90	9.57	8.62	8.86	**9.25**	**0.64**	**6.87**
U	3.46	2.04	3.32	2.57	2.38		**2.71**	**0.61**	**22.43**

Note: SRM1646 data for Fe and Na must be multiplied by 10^4 for correct scaling.

Dry Deposition Samples (INAA)

Nahant Sample mass - (ng)

Sample ID	INAA		600	601	604	605	606	607	609	611	614
Start Date	Detectio		7/7/92	7/7/92	7/22/92	7/22/92	8/6/92	8/6/92	8/19/92	9/2/92	9/16/92
Time (hrs)	Limit	Process	360	360	360	360	311.833	311.833	336.42	335.25	335.667
Precip. (in	(ng)	Blank	1.11	1.11	0.98	0.98	4.41	4.41	0.56	1.37	1.87
						missing					
Fe	500	0	196648	331519	71470		136202	315507	395531	93773	83121
Na	200	2039	61926	42293	16439		142618	132056	179382	36937	34011
K	2000	0	0	0			0	0	0	0	40235
Cs	10	0	11.9	27.5			0	35	30.8	13	0
Sc	0.5	0	45.6	92	10.8		34.2	91.8	99.6	24.9	17.3
Cr	50	0	813.8	1506.3	358.1		1219.5	1686.5	2151.6	425.9	849
Co	10	9.4	55.2	120.3	35.6		169.3	113.3	150.8	26.9	45.3
Zn	100	445	2412	1538	5622		659.8	1549.4	0	1245	1241.4
Ag	3	0	0	665.7	18.7		52.3	116.7	114	0	10.8
Ga	200	0	0	0			0	0	0	0	0
As	20	0	0	0			0	0	135.1	0	15.8
Sb	5	0	99.5	45.5	11.7		20.5	30.5	106.5	15.4	12.2
Se	3	0	18	62.4	20.1		25.9	71.9	17.8	0	7.5
Br	10	0	1939.7								
La	5	18.6	210.8	324.3	76.9		262.1	565.5	414.4	144	99.4
Ce	10	50.6	505.2	694.6	142.4		575	1100.2	894.3	269.4	178.9
Nd	100	0	182.5	195.9	87.4		142.5	241.1	402.9	119.6	49.3
Sm	5	0	35.8	115.7	9.5		27.8	68.6	62.5	14.8	15.3
Eu	2	0	5.7	10	1.8		5.5	14	14.8	3	2.7
Gd	50	0	0	51.5			0	58.2	53	0	0
Tb	1	0	2.6	7.9	0.5		3.1	12.6	8.1	2	1.8
Tm	1	0	0	4.3			2.8	2.6	0	0	1.4
Yb	1	1.5	8.5	13.5	2		6.8	22.5	21.6	2.7	5.1
Lu	5	0	0	0			0	0	5.1	0	0
Zr		0	6614	0			0	0	8775	0	0
Hf	5	0	4.9	9	2.1		5.8	15.4	14.6	2.5	2.5
Ta	1	0	8.3	18.1	2.5		8.3	27.6	19.6	4.2	6.1
W	20	0	0								
Ir	0.5	0.2	0	0.4			0	0	0	0	0
Th	10	0	45.4	77.6	25.1		39.5	72.6	75.6	24.8	22
U	10	0	17.4	20			0	0	39.1	0	0
Rb	500	0	0	0			0	461.5			0

Dry Deposition Samples (INAA)

Nahant Sample mass - (ng)

Sample ID	618	623	627	631	635	639	643	647	651	655	659
Start Date	9/30/92	10/14/92	10/27/92	11/10/92	11/23/92	12/7/92	12/21/92	1/6/93	1/20/93	2/2/93	2/15/93
Time (hrs)	335.5	311.75	329.08	317.42	334.75	334.5	381.5	333.58	311.5	307.17	360.58
Precip. (in	1.19	0.54	1	2.74	1.34	7.99	1.53	0.5	0.46	2.39	1.54
						Destroyed					
Fe	214130	155502	113669	152369	182099		445281	219412	161082	292078	244506
Na	84661	50738	46882	52858	79145		187117	99236	41526	131253	101157
K	0	0	45484		0			155155			164037
Cs	0	0	0	7.7	0		39.8	36.6		28	34.1
Sc	51	35.8	26.2	43.2	43.3		121	54	33.3	72.9	64.7
Cr	901.2	2006.4	444.2	968.4	797.8		1525.3	793.3	577.4	1161.9	1080.9
Co	87.9	86.9	56.5	62.8	103.7		237.3	103.8	45	113.3	116
Zn	2363	3672	2589	1582	2161		2226	1710	1741	2043	1925
Ag	0	27.8	0	50	0			0			0
Ga	0	0	0		0			0			0
As	0	0	0		0		134.7	0		141.8	77.6
Sb	97.8	35.7	28.4	51.8	100.3		113.1	75.3	97.8	42.3	131.1
Se	0	15	0	25.3	32.1		46.8	0	85.5	20.1	31.4
Br	0										
La	232.5	190.5	155.7	404.9	322.9		597.4	453.4	202.6	308.1	357.3
Ce	246.4	329.6	289.4	815.4	518		860.4	0	362	663.2	0
Nd	0	54.9	71.7	306.1	165.3		413	0		227.9	0
Sm	35	50.5	20.5	23.3	30.5		68.6	32.1	26.52	52.9	48.4
Eu	8.1	6.1	2.8	6.2	6.5		17.6	10.3	6.66	11.4	11.6
Gd	0	0	0		0		58	0			0
Tb	1.4	1	1.9	3.2	4.5		9.9	0	2.68	7.5	0
Tm	0	0	0		0			0			0
Yb	5.2	8.6	3.8	7.9	5.6		26.8	9.4	7.18	15.9	8.7
Lu	0	0	0		0		4	0			0
Zr	0	0	0		9404			0			14090
Hf	4.2	4.1	3.6	8	4.4		20	0	13.6	20.9	0
Ta	11	6.9	4.7	5	7.3		144.2	20.2	7.6	12.5	0
W	0						25.4				
Ir	0	2.2	0		0			0			0
Th	41.2	22.5	24.3	36.3	36.2		100.5	40.9	39.1	70.1	51.2
U	0	0	0		0		32.3	0		47.2	0
Rb	0										1240

Dry Deposition Samples (INAA)

Nahant Sample mass - (ng)

Sample ID	663	667	671	675	679	683	687	691	695	699	701
Start Date	3/2/93	3/16/93	3/30/93	4/14/93	4/27/93	5/13/93	5/26/93	6/9/93	6/23/93	7/7/93	7/22/93
Time (hrs)	336.5	337	359.5	313.92	382.17	311.58	337.75	334.25	339.75	354.08	314.75
Precip. (in	0.77	3.39	1.82	2.12	0.12	0.57	1.18	0.64	0.09	0.33	1.03
Fe	272539	113128	99260	468623	541651	725924	503814	733165	388366	685132	211676
Na	117891	45424	47942	208053	235780	312133	240355	318919	168338	304651	112937
K	161853										
Cs	18.3	12.1			67.9	81.7	50.1	61.1	25.3	70.1	12.3
Sc	68.1	26.7	30.6	123.5	137.8	208.4	147.4	195.7	100.2	190	51
Cr	1132.8	592.3	782.8	1703	1538.6	2291.3	1479.8	2631.9	1122.3	1877.7	945.1
Co	79.6	45.1	41.7	120	188.4	322.3	148.5	308.9	152.1	215	144.8
Zn	1470	718	1283	2626	3910	6638	1442	4740	8025	3709	3317
Ag	64.9			166.4			95.1	54	100.5		
Ga	112						212	197			
As	56.7	33.5			239	206		237.2	178.5	221.6	79.8
Sb	159.2	31.7	30.4	116	91.8	115.6	73.5	123.8	135.7	105.6	69.7
Se	52.5	13.6		52.3	12.8	29.5	25.9	49.8			
Br	1505										
La	349	129.6	115.5	491.8	579.4	708.8	472.5	732.1	379.8	723.9	303.8
Ce	676.8	198.9	220.1	836.8	1237.6	1445.4	1030.3	1635.4	835.3	1608.1	702.5
Nd	215.9	100.2		307.8	636	527.6	366.4	706.1	371.3	644.6	224.8
Sm	50	14.4	19.55	66.99	148.8	131.3	91.6	137.8	97.7	123.9	35.8
Eu	10.6	4.2	3.15	14.02	22.4	31.9	19.5	29.5	14.5	27.9	7.6
Gd						83					
Tb	7.3	4	4.57	9.24	15.8	19	11.4	20.8	9.8	17.3	5.4
Tm								7.9			11.2
Yb	13.9	3.2	7.57	36.38	45.6	61.2	29.5	48.8	38.6	57.8	
Lu	1.3				6.9	7	3.8	5.9	5.7		
Zr								7698.7			
Hf	12.1	4	7.2	36	27.3	46.1	34.8	41.9	21.4	54	14.9
Ta	7.9	3.6	9	18.7	14.2	27.3	54.5	42	14.6	32.9	13.9
W	64.7										
Ir					5.6	4.6	4.7				
Th	52.6	20.2	21.7	107	138.7	160.5	124.8	223.7	88.4	191.8	49.7
U	23.2	8.8		37.6	68.5	69.3	46.2	58.2	33.9	69.4	33.2
Rb	832						1401	1119			

Nahant Sample mass - (ng)

Sample ID	703	707	711
Start Date	8/4/93	8/18/93	9/1/93
Time (hrs)	334.33	335.58	313.17
Precip. (in	0.58	0.34	1.55
Fe	140205	527247	163972
Na	61701	199747	65609
K			
Cs		35.4	
Sc	37.6	133.7	39.3
Cr	702.8	1688.6	868.5
Co	59	267	95.8
Zn	724	7216	4232
Ag		135.3	42.1
Ga			
As		125.3	30.7
Sb	26.5	114	31.3
Se		11.7	
Br			
La	159.8	640	239.2
Ce	315.7	1227.7	431.7
Nd		556.2	
Sm	31.8	94.7	25.5
Eu	5	18	6.9
Gd			
Tb	4.2	11.6	2.5
Tm			
Yb	9.6	45	11.1
Lu		6.3	
Zr			1441
Hf	9.7	28.9	7.7
Ta	4.9	17.7	5.1
W			
Ir	2		
Th	35.5	105.2	31.3
U		39.9	
Rb			

Dry Deposition Samples (INAA)

Truro **Sample mass - (ng)**

Sample ID	INAA		602	603	608	610	612	616	620	625	629
Start Date	Detectio		7/17/92	7/17/92	8/12/92	9/1/92	9/15/92	9/29/92	10/13/92	10/27/92	11/10/92
Time (hrs)	Limit	Process	622.25	622.25	480	336	336	334.5	336	336	336
Precip. (in	(ng)	Blank	4.2	4.2	3.65	1.36	2.19	1.47	0.84	1.04	2.89
			missing			missing					
Fe	500	0	255889	255889	35092		145399	95631	36247	35608	51252
Na	200	2039	59988	59988	15139		48362	32922	14443	9968	15674
K	2000	0					66728			0	
Cs	10	0	22	22			12.4			0	
Sc	0.5	0	56.3	56.3	9.1		31.9	21.4	7.5	5.1	12.1
Cr	50	0	1658	1658	255.5		558.1	500	240.9	234.3	497.2
Co	10	9.4	66	66	16.8		39.6	47	11.4	10	18.1
Zn	100	445	3980	3980	786		739.4	10602	955	2327	1252
Ag	3	0	77	77			32.9		12.6	83.6	40.1
Ga	200	0					89.7			0	
As	20	0					68.3			0	
Sb	5	0	118	118	46.4		0	7	57	0	78.8
Se	3	0	108	108			54	24	19.7	0	36.2
Br	10	0								0	
La	5	18.6	262	262	49.2		300.7	199	50.5	175.1	77.2
Ce	10	50.6	573	573	89.7		667.6	423	89.8	183.6	166.4
Nd	100	0	162	162			251.5	129		0	
Sm	5	0	45.7	45.7	6.5		54.6	32.8	3.9	10.3	7.1
Eu	2	0	8.3	8.3	1.6		5.5	4.7	1.1	4	1.1
Gd	50	0					49.2			0	
Tb	1	0	2	2			6.2	2.1		0	
Tm	1	0					1.3			0	
Yb	1	1.5	4.4	4.4	2.1		7.4	7.3	2.5	1.9	3.8
Lu	5	0								0	
Zr	0	0							2191	0	3442
Hf	5	0	14.7	14.7	1.9		12.9	10.4	1.6	3.3	1.5
W	1	0	1	1						0	
Ta	20	0	7.9	7.9	0.8		7.2	5.8		30.1	2.9
Ir	0.5	0.2					6.7			0	
Th	10	0	67	67	7.5		124.7	63	5.7	0	12.4
U	10	0					21.9			0	
Rb	500	0					0			0	

Dry Deposition Samples (INAA)

Truro Sample mass - (ng

Sample ID	634	637	641	645	649	653	657	661	665	669	673
Start Date	11/24/92	12/8/92	12/24/92	1/7/93	1/21/93	2/4/93	2/20/93	3/3/93	3/20/93	4/8/93	4/29/93
Time (hrs)	331	384	336	336	336	384	264	408	456	505	622.75
Precip. (in	1.55	2.45	2.1	1.24	0.96	2.68	0.64	3.68	4.7	3.8	2.03
		Malfunct.									
Fe	594879	881410	170852	270068	321998	276106	248896	1508250	28750	118783	177873
Na	270616	439125	80579	93984	137673	101830	90362	583067	13663	46973	109569
K		751522		98146				537434	21447		96823
Cs	53.4	53.5		17.1	22	30.1	19	72.3		5	19.3
Sc	166.4	255.9	43.6	53.8	80.8	70.5	60.4	574.7	6.5	33.4	41.4
Cr	1901.4	1716.7	1318.7	854.2	1457	840.2	1086.9	4491	408.4	712.8	604.1
Co	197.2	268.4	52.7	51.1	82.2	68.3	85.3	580.9	7.9	45.6	71.7
Zn	2924	30149	1981	3247	2732	1054	1594	2704	957	3656	4501
Ag	226	343.6		62.5				244.6	28	47.5	86.5
Ga		0						349			
As	163.8	240.8		74.6		233.7		192.4		17.9	67.7
Sb	87.3	57	103.6	15.3	116.5	28.8	31.4	96.7	72.3	153.7	25.4
Se	61	32	8.6	28.8	30.7	64	46.2	124.4		42.3	14.2
Br	922.8	1437.9						2764	1833	1613	501
La	743.6	2046.8	227.2	547.6	472.1	326.4	288.9	1472.4	117.6	148.2	194.1
Ce	1562.6	5139.1	483.7	1193.7	1091.1	860.7	622.8	3593.8	276.6	372.5	556.8
Nd	646.2	2178.1	162	391.5	350.3	374.5	200.2	1234.3	64.1	120.7	164.4
Sm	108.3	378	33.6	71.3	84.9	81.68	46.2	271.9	5.4	19.7	29.2
Eu	25.2	40.1	6.3	10.6	13.4	14.21	9.2	46.7	1	3.8	5.7
Gd	97.1	255.7			63.6			206.6			40.9
Tb	16.7	35	3.9	6.7	10.3	10.87	4.4	32.1	1.1	2.5	5.1
Tm		0						10			2.1
Yb	35.6	220.4	12.3	14.2	29.7	36	15.9	70.2	2	6.8	13.4
Lu		46.2			3.6			9.6			
Zr		29690	3397	3343	7352			14680		6647	
Hf	22.7	141.7	8.6	25.9	17.4	43.6	18.5	71.4	1.3	10.3	7.8
W		0	25.8								
Ta	26	125.6		17.5	15.2	12.2	10.4	35.7	1.4	12.3	7.1
Ir		7.9	1.4	2			0.6	6			2
Th	139.7	737.1	57.3	107	137.9	105.3	65.8	491.5	4.9	29.7	38.6
U	47.4	205.1		29	33.3	47.6		126.8		7.4	21.2
Rb	1678	3272			882			3913			469

Dry Deposition Samples (INAA)

Truro **Sample mass - (ng)**

Sample ID	677	681	685	689	693	697	705	709
Start Date	5/25/93	6/9/93	7/1/93	7/15/93	7/28/93	8/8/93	8/21/93	9/1/93
Time (hrs)	359	528.5	336	312	265	310.75	264	384
Precip. (in	1.22	0.47	1.07	1.08	0.31	0.17	0.04	2.22
Fe	204387	251856	70111	159578	49350	37716	56007	64345
Na	79138	88684	21985	58719	17029		24150	21050
K								
Cs	24.7			10.5			7.4	
Sc	52	58.3	15.3	33.2	11.7	7.3	13.2	14.7
Cr	730.2	959.8	298.1	738.1	301	498.3	374.4	638.5
Co	97.1	78.2	23.5	61.1		21.1	17	17.4
Zn	8006	2748	1023	3129	1005	1592	650	1629
Ag	49.2							
Ga								
As								
Sb	23.4	32.3	67.5	12.1	10.7			7.1
Se		23.1	16.1	23.7			7.5	13.3
Br								
La	380	238.7	75.5	174.3	71.6	49.2	58	86.7
Ce	765	621.4	151.8	394.5	133.2	129.2	120.3	155.9
Nd	244.1	313.5						
Sm	77.07	43.4	20	30.4	12.5	22.41	14.6	11.2
Eu	10.26	8.5	2.7	4.7	2.2	1.1	2	2.3
Gd								
Tb	5.98	7.3	0.9	2.6	1.3			1.7
Tm								
Yb	16.06	13.7	3.1	10.7	4.6	5.25	4.8	4.6
Lu								
Zr			1753				3404	
Hf	16.5	14.1	3.5	17	2.9		34.8	5.3
W								
Ta	6.7	12	2.4	4.7	3.6	2.2	1.4	1.5
Ir	1	3.3		0.4				0.4
Th	125.2	58.4	18.4	41.3	13.9	19.5	11.3	16.9
U								
Rb								

Wet Deposition Samples (INAA)

Nahant Sample mass - (ng)

Sample ID		800	801	804	805	806	807	809	811	814	818
Start Date		7/7/92	7/7/92	7/22/92	7/22/92	8/6/92	8/6/92	8/19/92	9/2/92	9/16/92	9/30/92
Time (hrs)	Process	360	360	360	360	311.833	311.833	336.42	335.25	335.25	335.5
Precip. (in)	Blank	1.11	1.11	0.98	0.98	4.41	4.41	0.56	1.37	1.87	1.19
Fe	0	66827	96169	11501	52214	52471	27903	9225	12822	13377	10504
Na	2039		18807	2535	12040	36983	12412	4332	3971	5346	7213
K	0									5654	
Cs	0									7.2	
Sc	0	18.4	26.8	1.6	12	11.5	6.9	1.6	2.9	3	1.6
Cr	0	706.5	348.6	123.8	414.2	1278	558.6	169.6	101.5	505.2	83.7
Co	9.4	29.8	30.3		24.8	25.3	22.8	4.2	12.9	9.3	9.8
Zn	445	1191.2	448.9	404.3	575.3	325.9	1215	453	469.8	330	678
Ag	0	33.2	64.4			53.1	42				21.3
Br	0										840.4
As	0										
Sb	0	12.5	22.3	1.5	5.7	21.8	72.7				
Se	0	16.7	22.3		39.5	45.5	23.1			33.2	11.8
La	18.6	77	107.7	21.2	56.9	171	76.4	94.2	17.5	23.8	22.9
Ce	50.6	168.7	255	34.7	121.7	488.6	156	229.1	44.4	38.2	
Nd	0		84			52.2		83			
Sm	0	25	30.6	6.1	12	29.4	2	3	5.5	1.6	
Eu	0	3.4	4.1		1.8	2.2	0.7				
Gd	0										
Tb	0	1.1	2.3		0.9	0.8					0.6
Tm	0		1.7								
Yb	1.5	4.3	5.4	0.8	2.1	2.9	2.5	1	0.7	1.5	
Hf	0	1.2	2.6		0.7	1.4		0.4	0.2		
Ta	0	5.9	9.5		2.6	2.6	5			0.8	1.5
Ir	0.2				7.4					5	
Th	0	18	26.4		11.7	11.9	4.4		5.1		21.9
U	0										
Rb	0										

Wet Deposition Samples (INAA)

Nahant Sample mass - (ng)

Sample ID	823	827	831	835	839	843	847	851	855	859	863
Start Date	10/14/92	10/27/92	11/10/92	11/23/92	12/7/92	12/21/92	1/6/93	1/20/93	2/2/93	2/15/93	3/2/93
Time (hrs)	311.75	329.08	317.42	334.75	334.5	381.5	333.58	311.5	307.17	360.58	336.5
Precip. (in)	0.54	1	2.74	1.34	7.99	1.53	0.5	0.46	2.39	1.54	0.77
					Destroyed						
Fe	21484	18447	29673	11675		54807	15761	30269	26027	22465	45857
Na	5685	6066	7016	3925		16449	8478	14901	10708	9740	21805
K											
Cs											
Sc	4.6	4.5	6.5	2.2		18	3.4	8.5	3.9	5	11.8
Cr	186	226.7	226.9	150.2		1500	259.8	298.6	219	329.3	224.3
Co	12.5	13	18.5			36	12.7	9.7	14	7	22.8
Zn	612	434	1356	996		1415	379	377	1421	468	955
Ag						49	28.8				29
Br											593.7
As											
Sb	7.4	5.7	18.2	6.8		78	53.6		31	65.8	8
Se	17.2	18.7	32	32.1		55	57.7			31.1	
La	36.7	22.2	61.6	109.9		147	52.3	169.5	47	27	71.4
Ce	69.7	46.9	103.5	176.1		184		380.4	66	54.9	148.7
Nd						84		69.4			
Sm	9.3	7	7.2	1.6		12.7	2.3	5.54	9.6	3	9.7
Eu	1.7	0.8	1			1.4	1.3	1.18		1.2	2.6
Gd											
Tb								0.19			0.7
Tm											
Yb	1.2	1.1	1.5	1		2.8			2.6	2.9	2.6
Hf		0.7	1.6			3		6.4		1.9	
Ta		1.8	27.7			10	2	7.5	7.4		
Ir											
Th		9	8.1			16		29.5		5.8	8.7
U											
Rb											

Wet Deposition Samples (INAA)

Nahant Sample mass - (ng)

Sample ID	867	871	875	879	883	887	891	899	901	903	907	911
Start Date	3/16/93	3/30/93	4/14/93	4/27/9	5/13/9	5/26/9	6/9/93	7/7/93	7/22/9	8/4/93	8/18/9	9/1/93
Time (hrs)	337	359.5	313.92	382.17	311.58	337.75	674.25	354.08	314.75	334.33	335.58	313.17
Precip. (in)	3.39	1.82	2.12	0.12	0.57	1.18	0.64	0.33	1.03	0.58	0.34	1.55
Fe	29555	38786	32568	84322	61025	52223	91795	25757	32357	53518	18280	83041
Na	9316	10601	13677	32496		18086	29015	9974	8686	19567	7269	26666
K												
Cs		7		17.2			7.4					6.3
Sc	6.3	9.1	7	22.4	16.6	13.6	23.4	6.7	7.7	14.3	4.4	22.3
Cr	439.8	239	552.2	485.6	301.6	493	628	354	728.6	244.9	203.5	457.9
Co	15.7	24	9.7	28.9	32.4	16.1	29.3		18.3	17.3	10.9	45.9
Zn	640	979	943	871	1223	1009	555	630	507	366	468	1049
Ag	54			20								
Br												
As				70.8								
Sb	65.1	89	8.8	22.6	60.4	14.1	8.8		13.4	12.9	8.5	31.9
Se	23.3	22				44.7	41		1.6		14.3	75.5
La	73.7	42	50.4	93.7	90.5	75.5	144.5	49.6	52.2	86	121.5	137.6
Ce	119.5	72	72	264.3	158.7	162	255.2	97.7	86.3	165.6	304.5	196.4
Nd				114.7	84.7							
Sm	6.2	5.7	5.5	22.41	18.98	7.6	17.1	5.8	4.7	9	6.3	15.3
Eu	0.9	1.8	0.9	5.3	2.27	2.3	3.5	0.8	0.9	2.3	0.7	4.3
Gd												
Tb				1.97	2.21	1.7	2.2					2
Tm												
Yb		4.1	3.8	4.62	4.04	3.4	4.7	3.8		4.8	1.8	4.2
Hf	0.5		1.4	5.4	2.5	2.2	4.1		2.3	2.3	0.9	3.3
Ta	2.2	6.9		6	8.1	1.5			64.3		3.2	4.6
Ir										0.2		
Th	5.1	9	9.8	24.7	14.9	9.7	27.6		8.7	16.8		21.4
U												
Rb												

Wet Deposition Samples (INAA)

Truro **Sample mass - (ng)**

Sample ID		802	803	808	810	812	816	820	825	829	834
Start Date		7/17/92	7/17/92	8/12/92	9/1/92	9/15/92	9/29/92	10/13/92	10/27/92	11/10/92	11/24/92
Time (hrs)	Process	622.25	622.25	480	336	336	334.5	336	336	336	331
Precip. (in)	Blank	4.2	4.2	3.65	1.36	2.19	1.47	0.84	1.04	2.89	1.55
			missing		missing						
Fe	0	153329		162445		24783	10859	20159	12564	159333	26465
Na	2039	31003		35748		10205	3640	6846	2392	28373	6578
K	0			62010		13435					
Cs	0					69.9				36.6	
Sc	0	33.7		38		4	2	3.6	2.1	40.8	4.2
Cr	0	933.7		1266		476.4	238.2	185.6	109.4	1014.4	442.3
Co	9.4	55.1		45.4		13.6	8.6	7.9	4.5	60.5	19.1
Zn	445	17637		1709.9		585.7	652.2	881	926	2312	1259
Ag	0	25.1		37.2		39.6		7.3		6.3	
Br	0										
As	0			38.1							
Sb	0	644.9		12.6			1.9	7	5.2	72.5	11.5
Se	0	209.5		143.1		32.7		34.5	10.3	147.5	72.1
La	18.6	218.7		171.8		25.8	19.2	20.3	43.2	227.6	37.5
Ce	50.6	403.9		294.4		60.7	40.1	40.3	75.5	421.6	49
Nd	0									101	
Sm	0	36.1		29.1		2.3	6.2			20.6	7.7
Eu	0	3.7		4.2			0.6			4.8	0.4
Gd	0										
Tb	0	2.5		2						2.1	
Tm	0			3.9							
Yb	1.5	9.4		7.4		1.3	1.1	1.5	1	8.2	1.2
Hf	0	3.4		3.4		0.6	0.5	1		4.4	
Ta	0	5.3		8.6		1.2				4.5	0.9
Ir	0.2			11.9		41.5	1			4	
Th	0	36.2		35.6						32.4	2.4
U	0			18							
Rb	0										

Wet Deposition Samples (INAA)

Truro **Sample mass - (ng)**

Sample ID	837	841	845	849	853	857	861	865	869	873	877
Start Date	12/8/92	12/24/92	1/7/93	1/21/93	2/4/93	2/20/93	3/3/93	3/20/93	4/8/93	4/29/93	5/25/93
Time (hrs)	384	336	336	336	384	264	408	456	505	622.75	359
Precip. (in)	2.45	2.1	1.24	0.96	2.68	0.64	3.68	4.7	3.8	2.03	1.22
	Malfunct.										
Fe	1796040	29990	49253	261642	125235	27495	1775267	45191	61108	88437	85461
Na	790351	19371	12978	93673	36057	13710	642103	17792	16194	30844	19576
K							690250				
Cs	95.9						68.5		9	6.9	9.6
Sc	397.8	10.8	7.2	59.9	28.5	6.1	604	10.2	15.6	24.3	20.7
Cr	3803.2	979.1	179.6	1683.6	386	189.9	4328.6	897.7	430.6	458.7	743.8
Co	338.8	14	15.2	79.5	36	10.4	611	8.3	15.7	27.4	23.6
Zn	9283	1940	1018	1919	1439	373	5025	2186	928	930	1100
Ag	480.9		22				301.8	84.3	24.9	20.4	
Br											
As	545.2				62		363.7			21.3	
Sb	149.2	41.3	100.5	72.2	19	60.4	91.7	43.9	15.3	69.1	45.4
Se	103.5	58.7		5	47	19.9	212.3	24.3	61.1	45.6	68.3
La	2241	78.1	65.7	262.8	103	24.2	2163	162.5	106.9	110.4	98.3
Ce	5136.9	72.6	134.4	597.9	185	72.3	4860.8	356.2	240.6	220.8	225
Nd	2055.2			172.3	94		2155.1	64.9	60	67.7	76.3
Sm	389.9		9.1	51.44	16.9	4.4	388.4	7	15.9	12.2	14.5
Eu	69.9		1.3	10.08	3	0.6	69.4	0.7	2.3	2.4	2.5
Gd	351.1						307.7				
Tb	69.1			2.36	1.6		47.3		1.1	1.6	1.6
Tm											
Yb	155	6.85	2.9	16.14	7.3	2.5	124.6	4.1	4.5	3.6	7.2
Hf	228.5	5.2	2.3	17.9	6.2	2.8	124.1	1.4	1.8	2.2	4.7
Ta	131	21.4	18.9	15.7	5.8		209.7		2.6	4.8	5
Ir	12.8								2		
Th	824.1	6.6	11.5	53	25	6.3	613.1	6.3	30.2	26.3	18.3
U	242.7						151.1		3.4	10.4	
Rb	5124						2431				

Wet Deposition Samples (INAA)

Truro Sample mass - (ng)

Sample ID	881	885	889	893	897	905	909
Start Date	6/9/93	7/1/93	7/15/93	7/28/9	8/8/93	8/21/9	9/1/93
Time (hrs)	528.5	336	312	265	310.75	264	384
Precip. (in)	0.47	1.07	1.08	0.31	0.17	0.04	2.22
Fe	18921	18604	43790	9006	15150	6434	65950
Na	6175	5938	10577	3828		4804	11358
K							
Cs							
Sc	7.1	5.3	9.2	2	3.9	1.4	12.9
Cr	341.3	202.1	118.3	147.1	183.5	151	1105.8
Co	16.3	9.6	12.2		9.2		17.6
Zn	448	505	558	513	426	445	1191
Ag			10				
Br							
As							
Sb	33.3				32.1		56.5
Se							87.9
La	32.4	36.7	48.3	13.6	33.9	15.3	83
Ce	65.6	93.7	83.2		50.6	46.9	191.3
Nd							
Sm	4.8	2.9	4.1	1.6	3.69		8.7
Eu		0.8	1.1	0.3			1.9
Gd							
Tb							
Tm							
Yb		1.3	3	2		0.7	2.8
Hf			1.4				2.5
Ta	2.9		17.4	5.3	1.5		8.5
Ir							
Th		6.7	5.9		9.9		14.6
U							
Rb							

PM-10 Deposition Samples (INAA)

Nahant Fine Sample Mass (ng)

Sample ID	Process	001, 002	008, 009	014, 016	020, 021	024	026	028	030	032	034
Start Date	Blank	7/22/92	8/19/92	9/16/92	10/14/92	11/10/92	12/7/92	1/6/93	2/2/93	3/2/93	3/30/93
Time (hrs)		360	335.2	206.1	312.2	317.1	117	335.2	207.3	335.5	357.8
Precip.(in)		1.07	0.03	1.09	0.66	3.22	7.99	0.81	3.24	1.77	2.65
Fe	0	20415	34247	5583	1357	1998	160907		4640	171259	7977
Na	2039	20881	32576	15065	18479	8747	44640	50762	43741	15310	96528
K	0										
Cs	0									25.9	
Sc	0	0.5	1.6	0.6	0.3	0.2	48.6	1	0.4	52.4	1
Cr	0	1078.4	1688.7	369.3	102.1	75.8	373.9	228.9	73.8	417.6	271.4
Co	9.4	56.2	122.6	91.2	10.2	11.4	61.4	12.4	8.1	62.7	19.7
Zn	445	1820	7217	3096	659	385	888	148	260	772	812
Ag	0	19.2							15.8		
Br	0			119.2							
As	0	94.8	252	51.2		19.1					36.8
Sb	0	83.9	175.1	54.7	18.6	14.7		9.1	3.5	56.5	30.6
Se	0	150.7	304.4	144.8	74.4	50.3		8.4			
La	18.6	28.8	45.7	28.6		7.7	25.5		15.4		12.4
Ce	50.6		35		9.8	7.8		168.6			
Nd	0							67.4			
Sm	0	8.7	10.5	6.1				17.6	5.1		13.7
Eu	0						8.7	3.5		10.8	
Gd	0										
Tb	0							2.2			
Tm	0										
Yb	1.5	1.3	3.7	2	0.5		2.9	5.5	0.4	1.8	
Hf	0							11.3			
Ta	0	2.4						2.1			
Ir	0.2	8.9	0.9				1.3	0.5		1.3	
Th	0						39	26.3		47.1	
Rb	0										
Total Mass		2.877	4.131	2.194	1.119	0.666	0.26	0.316	0.515	0.335	0.927

PM-10 Deposition Samples (INAA)

Nahant Fine Sample Mass (ng)

Sample ID	036	038	040	044	045, 046	049
Start Date	4/27/93	5/26/93	6/23/93	7/22/93	8/4/93	9/1/93
Time (hrs)	382	337.6	339.5	315	334.1	308.6
Precip.(in)	0.12	1.25	0.26	0.97	0.63	1.46
Fe	13088	6227	11025	8548	26879	11785
Na	136982	67051	36870	93871	149837	107719
K						
Cs						
Sc	1.8	0.8	1.1	0.9	3.8	2
Cr	230.6	323.7	165.5	533.2	157.2	123.6
Co	23.7	8.2	17.9	19.3	19.6	12.5
Zn	2248	697	2043	2787	1573	783
Ag					4.9	
Br			383	380	563	425
As		18.2	78.7	50.6		
Sb	45.2	16.3	108.2	44.1	24.4	15
Se	77.5	40.1	88.5	108.8		9.4
La			15.4		46.5	30.7
Ce	211.9	8.1	20.6	17.7	33.2	25.6
Nd	103.3					
Sm	14.9		1		3.1	1.98
Eu	4.1	0.2				0.93
Gd						
Tb	1.9					0.5
Tm						
Yb	7.2	0.4	1.11	1.07	2.12	
Hf	14.9					
Ta	2					
Ir	0.8					
Th	27.8					
Rb						
Total Mass	1.376	1.38	1.633	1.83	0.819	0.827

PM-10 Deposition Samples (INAA)

Nahant Coarse Sample Mass (ng)

Sample ID	Process	300, 301	309, 310	314, 317	320, 321	324	326	328	330	332	334
Start Date	Blank	7/22/92	8/19/92	9/16/92	10/14/92	11/10/92	12/7/92	1/6/93	2/2/93	3/2/93	3/30/93
Time (hrs)		360	335.2	206.1	312.2	317.1	117	335.2	207.3	335.5	357.8
Precip.(in)		1.07	0.03	1.09	0.66	3.22	7.99	0.81	3.24	1.77	2.65
Fe	0	36966	67192	17017	4494	3980	201577	3889	1905		5698
Na	2039	179592	144368	32103	114859	23263	28913	21990	18561	26847	75389
K	0										
Cs	0						38.6				
Sc	0	6.9	10	3	0.7	0.5	60.4	0.3	0.3	0.4	0.9
Cr	0	144.9	565.6	111.7	54.2	47.5	421.9	70.9	59.8	172.7	28.1
Co	9.4	37.4	126.8	127.6	5.2	35	63.4	18.4	12.3	13.9	4.7
Zn	445	5484	4639	1618	474	224	1231	1606	360	545	236
Ag	0							18.3	99.5		
Br	0	299.5	73.8	58.9							
As	0		58.5	17.4				16		26.9	
Sb	0	70.6	96.7	36.4	7.9	5.4		24.8	21.6	19.9	16.7
Se	0		92	40.1	13.1	21.1		56	38.4		
La	18.6	59.5	71.2	31.1	8.8	4.5	28.4	16	4.5	10.7	8.7
Ce	50.6	92.2	98.1	33.3	15.3	7.6		8.2	9.7	37	
Nd	0										
Sm	0	10	8.7	2.2	0.9						
Eu	0	1.4	2.4		0.3	0.3			0.1		
Gd	0										
Tb	0										
Tm	0										
Yb	1.5	3.2	3.4	2.4	3.4	0.4		0.3			0.4
Hf	0		0.6		0.1						0.2
Ta	0	4.2	3.5	1.4				3.5			0.6
Ir	0.2		0.4	0.6			1.5	0.2			0.1
Th	0	12	7.7				58.3				
Rb	0										
Total Mass		2.497	2.482	0.867	1.467	0.418	0.149	0.81	0.575	0.349	0.815

PM-10 Deposition Samples (INAA)

Nahant Coarse Sample Mass (ng)

Sample ID	336	338	340	344	345, 346	349
Start Date	4/27/93	5/26/93	6/23/93	7/22/93	8/4/93	9/1/93
Time (hrs)	382	337.6	339.5	315	334.1	308.6
Precip.(in)	0.12	1.25	0.26	0.97	0.63	1.46
Fe	15681	10747	26503	20267	11779	8028
Na	253655	34339	113185	149843	103022	52197
K						
Cs						
Sc	3.6	2.4	4.9	3.5	0.9	0.8
Cr	231.3	58.8	191.5	214.5	351.2	312.9
Co	19.2	6.8	17.8	19	18.9	19.3
Zn		298	1442	1215	2670	1710
Ag	6.7					
Br			427	400	378	279
As					40	38.6
Sb		22.1	69.8	28.8	73.2	35.6
Se	33.2		17.6	45.7	44.9	65.5
La	80.9	19	22.5	41.9	59.5	31.4
Ce	213	25	51.1	61	27.3	15.6
Nd						
Sm	15.9	2.3	6.7	2.28		1.52
Eu	4.5	0.4	1.15	0.66		
Gd						
Tb	3.5		0.78	0.35		
Tm						
Yb	6.5	0.4	1.42	1.01	2.26	1.07
Hf	13	0.3				
Ta	1.8	0.5				1.3
Ir	0.6					
Th	33.8	2.7	6			
Rb						
Total Mass	1.726	1.153	1.185	1.405	1.084	1.02

Appendix A-9

ICP-MS Analysis Results (Metals Only)

Appendix Order:

ICP-MS Analytical Uncertainties
Nahant Dry Deposition (Soluble)
Truro Dry Deposition (Soluble)
Nahant Wet Deposition (Soluble)
Truro Dry Deposition (Soluble)
Nahant Dry Deposition (Wall Desorbed)
Truro Dry Deposition (Wall Desorbed)
Nahant Wet Deposition (Wall Desorbed)
Truro Wet Deposition (Wall Desorbed)

Dry Deposition (Soluble Fraction) Analytical Uncertainties.

Dry Soluble	Sample Volume (l)	Cr Conc.	Cr %RSD	Cr C*%*V	Mn Conc.	Mn %RSD	Mn C*%*V	Co Conc.	Co %RSD	Co C*%*V	Ni Conc.	Ni %RSD	Ni C*%*V	Cu Conc.	Cu %RSD	Cu C*%*V
600	4.09	0	0	0.00	2.33	0.4	3.81	0	0	0.00	0.756	2.99	9.25	1	0.56	2.29
601	4.48	0	0	0.00	1.74	0.764	5.96	0.6321	42.58	120.58	1.61	1.765	12.73	1.1	3.53	17.40
602	0.74	1.59	2.63	3.09	5.08	1.21	4.55	0	0	0.00	3.3	0.336	0.82	1.9	1.26	1.77
603	5.74	0	0	0.00	0.898	2.28	11.75	0	0	0.00	0.367	4.286	9.03	0.3297	3.2	6.06
604				0.00			0.00			0.00			0.00			0.00
605	1.44	0.2	23.08	6.65	2.42	2.96	10.32	0	0	0.00	1.1	0.992	1.57	2.61	1.55	5.83
606	1.52	0	0	0.00	0.979	0.738	1.10	0	0	0.00	0.817	1.678	2.08	1.371	1.856	3.87
607	0.88	0.165	40.86	5.93	1.72	2.48	3.75	0	0	0.00	3.415	0.192	0.58	2.68	0.163	0.38
608	0.45	0.12	71.81	3.88	4.387	0.22	0.43	0.25	1.17	0.13	0.84	3.75	1.42	0.56	1.2	0.30
609	0.17	0.43	4.95	0.36	17.86	0.11	0.33	0.38	2.24	0.14	4.51	1.18	0.90	6.99	0.397	0.47
610				0.00			0.00			0.00			0.00			0.00
611	0.97	0.23	11.3	2.52	1.626	0.94	1.48	0	0	0.00	0.94	1.22	1.11	1.93	2.2	4.12
612	1.75	0	0	0.00	0.577	1.64	1.66	0	0	0.00	0.349	2.37	1.45	0.179	2.21	0.69
614	1.24	0.36	13.75	6.14	3.48	0.459	1.98	0	0	0.00	0.85	3.81	4.02	1.14	0.363	0.51
616	1.14	0	0	0.00	5.419	1.627	10.05	0	0	0.00	1.959	1.37	3.06	5.917	1.72	11.60
618	0.97	0	0	0.00	9.82	1.66	15.81	0	0	0.00	1.498	0.886	1.29	1.74	0.87	1.47
620	2.19	0.13	15.98	4.55	3.79	1.63	13.53	0.22	1.23	0.59	0.64	3.48	4.88	0.315	3.64	2.51
623	1.80	0.225	15.06	6.10	11.366	1	20.46	0	0	0.00	0.98	0.859	1.52	0.95	1.47	2.51
625	1.30	0	0	0.00	0	0	0.00	0	0	0.00	0.74	1.278	1.23	0.26	1.11	0.38
627	0.28	0	0	0.00	2.67	1.13	0.84	0	0	0.00	5.85	1.07	1.75	4.75	1.476	1.96
629	1.68	0.09	49.41	7.47	0.91	1.845	2.82	0.22	0.7	0.26	0.45	5.51	4.17	0.45	3.12	2.36
631	1.37	0.3	18.95	7.79	2.05	0.65	1.83	0.12	3.89	0.64	1.62	2.5	5.55	1.73	2.83	6.71
634	1.79	0	0	0.00	0.18	13.32	4.29	0	0	0.00	0.5	0.85	0.76	0.17	1.377	0.42
635	0.60	0.41	3.98	0.98	9.98	0.81	4.85	0.21	2.65	0.33	4.46	1.6	4.28	5.875	0.564	1.99
637	1.41	0	0	0.00	2.5	1.75	6.17	0	0	0.00	0.31	4.55	1.99	0.16	0.73	0.16
641	0.96	0	0	0.00	12.33	2.44	28.88	0.73	21.04	14.74	7.4	5.5	39.07	5.63	1.75	9.46
643	0.31	0	0	0.00	1.41	0.98	0.43	0	0	0.00	0.49	4.39	0.67	0.19	6.41	0.38
645	0.87	0.31	13.54	3.65	3.87	1.67	5.62	0.39	0.26	0.09	5.82	2.24	11.34	2.03	0.5	0.88
647	1.63	0.32	9.06	4.73	1.85	0.53	1.60	0.11	2.96	0.53	2.038	1.3	4.32	1.968	0.34	1.09
649		0	0	0.00	1.39	0.396	0.00	0	0	0.00	0.23	5.29	0.00	0.66	1.08	0.00
651	1.76	0	0	0.00	1.5	1.06	2.80	0	0	0.00	0.416	1.745	1.28	0.522	2.01	1.85
653	2.84	0	0	0.00	1.86	0.5	2.64	0	0	0.00	0.31	2.71	2.39	28.82	0.565	46.24
655	1.37	0.38	14.9	7.76	3.55	0.96	4.67	0.17	1.91	0.44	2.33	2.21	7.05	4.97	0.99	6.74
657	2.05	0	0	0.00	1.33	3.21	8.75	0	0	0.00	0.69	2.87	4.06	0.41	3.14	2.64
659	1.23	0.47	9.53	5.51	3.18	0.78	3.05	0.33	0.35	0.14	2.55	3.07	9.63	1.94	0.34	0.81
661	3.22	0	0	0.00	4.73	1.54	23.46	0	0	0.00	0.429	3.38	4.67	0.834	2.54	6.82
663	2.92	0	0	0.00	1.16	1.38	4.67	0	0	0.00	0.71	4.71	9.76	0.838	3.18	7.78
665	1.63	0.04	119.62	7.80	0.69	1.32	1.48	0.2	0.98	0.32	0.24	11.59	4.53	0.35	1.7	0.97
667	0.97	0	0	0.00	1.08	2.359	2.47	0	0	0.00	2.14	1.51	3.13	2.4	0.91	2.12
669	1.04	0	0	0.00	3.22	2.17	7.27	0	0	0.00	0.56	2.71	1.58	0.54	0.7	0.39
671	0.35	1.22	7.66	3.27	5.93	1.28	2.66	0	0	0.00	6.47	1.18	2.67	9.37	1.589	5.21
673	0.55	0	0	0.00	11.097	0.793	4.84	0	0	0.00	0.9944	1.048	0.57	6.4422	0.7505	2.66
675	0.53	0	0	0.00	10.999	0.566	3.30	0	0	0.00	3.0375	1.06	1.71	5.95	1.44	4.54
677	0.46	0.103	21.39	1.01	73.97	1.74	59.21	0	0	0.00	1.417	2.029	1.32	2.2	1.54	1.56
679	0.39	3.06	3.27	3.90	22.06	1.23	10.58	0.79	1.349	0.42	2.44	4.83	4.60	4.4	1.57	2.69
681	0.47	1.88	4.12	3.64	32.59	0.42	6.43	0.7	1.77	0.58	1.89	1.73	1.54	1.48	1.41	0.98
683	0.93	5.097	10.59	50.20	1.63	1.08	1.64	0.627	1.15	0.67	1.46	3.52	4.78	6.46	4.22	25.35
685	0.61	0.3	19.46	3.56	7.17	0.24	1.05	0.15	26.39	2.41	1.08	2.82	1.86	0.73	5.41	2.41
687	0.31	1	7.93	2.46	73.49	1.02	23.24	0.92	2.95	0.84	7.37	0.87	1.99	5.79	0.53	0.95
689	0.80	4.64	2.19	8.13	1.67	2.88	3.85	0.62	0.61	0.30	2.85	1.17	2.67	3.22	3.46	8.91
691	0.68	0	0	0.00	18.47	1.43	17.96	0	0	0.00	2.57	1.03	1.80	3.415	2.188	5.08
693	2.01	0.15	43.16	13.01	0.69	1.03	1.43	0.05	7.7	0.77	0.39	9.33	7.31	0.23	16.22	7.50
695	0.49	0.51	14.86	3.71	3.67	0.78	1.40	0.17	1.83	0.15	7.91	1.16	4.50	10.41	2.18	11.12
697	1.89	0	0	0.00	0.58	1.61	1.76	0	0	0.00	0.52	4.04	3.97	0.165	0.27	0.08
699	0.47	2.21	1.196	1.24	28.35	1.03	13.72	0.96	2.036	0.92	2.73	7.58	9.73	3.59	4.85	8.18
701	0.38	0.57	21.62	4.68	1.87	1.68	1.19	0.29	1.14	0.13	1.74	1.58	1.04	10.3	0.49	1.92
703	2.62	0.97	15.35	39.01	1.02	2.74	7.32	0.59	2.18	3.37	1.14	4.61	13.77	0.95	4.26	10.60
705	0.85	1.82	11.57	17.90	3.298	1.41	3.95	0.63	1.88	1.01	1.77	7.16	10.77	3.15	3.18	8.51
707	1.93	5.26	1.09	11.07	0.59	1.53	1.74	0.6	1.13	1.31	1.67	4.83	15.57	4.78	2.24	20.66
709	2.25	7.02	4.876	77.02	1.99	1.16	5.19	0.62	2.15	3.00	1.42	4.03	12.88	3.18	1.76	12.59
711	2.97	0.27	68.42	54.87	6.3	1.13	21.14	0.81	22.72	54.66	0.43	56.64	72.33	5.7	3.11	52.65
Wtd. Avg	82.74	mass weighted avg.		7.67			1.27			12.92			3.32			1.53

Dry Deposition (Soluble Fraction) Analytical Uncertainties.

Dry Soluble	Sample Volume (l)	Zn Conc.	Zn %RSD	Zn C*%*V	Cd Conc.	Cd %RSD	Cd C*%*V	Pb Conc.	Pb %RSD	Pb C*%*V	Fe Conc.	Fe %RSD	Fe C*%*V	Al Conc.	Al %RSD	Al C*%*V
600	4.09	4.99	1.44	29.39	0.16	4.85	3.17	1.67	1.97	13.46	1.65	29.99	202.4	24.11	1.65	162.7
601	4.48	4.43	1.249	24.79	0.121	4.657	2.52	0.942	2.37	10.00	8.64	4.76	184.2	14.33	0.423	27.2
602	0.74	9.48	1.26	8.84	0.185	3.48	0.48	4.62	2.53	8.65	119.47	0.646	57.1	70.22	1.95	101.3
603	5.74	3.313	2.2775	43.31	0	0	0.00	0.684	6.16	24.19	0.4155	41.91	100.0	14.3	2.328	191.1
604				0.00			0.00			0.00			0.0			0.0
605	1.44	9.36	3.055	41.18	0.087	4.36	0.55	1.5	2.34	5.05	12.58	2.657	48.1	21.1	1.89	57.4
606	1.52	7.02	2.168	23.13	0.04	5.03	0.31	0.58	10.2	8.99	8.5	5.62	72.6	9.64	1.05	15.4
607	0.88	10.83	1.28	12.20	0.31	5.59	1.52	0	0	0.00	3.835	9.86	33.3	8.5	1.6	12.0
608	0.45	7.16	2.96	9.54	0.3445	2.27	0.35	0.74	1.3	0.43	21.88	0.86	8.5	20.67	1.98	18.4
609	0.17	105.3	0.83	14.86	0.87	1.99	0.29	3.67	0.34	0.21	32.3	2.9	15.9	53.61	0.285	2.6
610				0.00			0.00			0.00			0.0			0.0
611	0.97	8.09	2.05	16.09	0.017	50.26	0.83	1.49	2.85	4.12	9.19	6.1	54.4	25.49	1.76	43.5
612	1.75	1.675	2.21	6.48	0	0	0.00	0	0	0.00	1.287	52.02	117.2	4.167	1.79	13.1
614	1.24	5.578	1.34	9.27	0.0083	70.96	0.73	0.24	20.47	6.09	5.195	15.34	98.8	8	1.147	11.4
616	1.14	27.62	0.297	9.35	0.25	3.47	0.99	0.64	3.47	2.53	7.45	4.259	36.2	15.47	1.65	29.1
618	0.97	10.97	1.38	14.68	0	0	0.00	0.9	2.61	2.28	32.53	3.34	105.4	33.4	1.27	41.1
620	2.19	4.62	1.48	14.97	0.29	1.53	0.97	0.49	2.42	2.60	4.03	14.41	127.2	9.77	0.58	12.4
623	1.80	4.25	0.994	7.60	0.0233	10.5	0.44	0.1659	12.999	3.88	2.97	11.08	59.2	2.98	1.41	7.6
625	1.30	3.477	2.15	9.72	0.02	16.53	0.43	0.52	8.77	5.93	0	0	0.0	4.4	3.09	17.7
627	0.28	21.19	0.87	5.16	0	0	0.00	1.85	1.82	0.94	4.138	20.95	24.3	24.68	1.85	12.8
629	1.68	2.36	3.61	14.31	0.25	3.16	1.33	1.01	0.74	1.26	1.8	22.66	68.5	4.93	1.7	14.1
631	1.37	5.87	2.62	21.07	0	0	0.00	1.26	0.61	1.05	3.31	6.78	30.7	21.24	0.89	25.9
634	1.79	2.156	3.55	13.70	0	0	0.00	0.0049	384.12	3.37	0	0	0.0	3.77	1.93	13.0
635	0.60	56.576	1.64	55.67	0.89	3.55	1.90	3.6	0.445	0.96	22.8665	2.81	38.6	29.724	1.82	32.5
637	1.41	2.719	2.657	10.19	0.17	2.23	0.53	0	0	0.00	0.48	143.1	96.9	10.6	0.71	10.6
641	0.96	27.94	1.33	35.67	0	0	0.00	7.12	5.77	39.44	33.4	23.3	747.1	73.66	3.4	240.4
643	0.31	4.92	2.32	3.54	0.13	1.79	0.07	0	0	0.00	1.34	40.8	16.9	7.46	0.348	0.8
645	0.87	23.69	0.94	19.37	1.24	1.52	1.64	1.42	1.38	1.70	6.96	5.06	30.6	13.22	0.17	2.0
647	1.63	11.11	1.69	30.60	0.13	5.66	1.20	2.49	0.11	0.45			0.0			0.0
649		5.07	1.96	0.00	0	0	0.00	0.62	3.79	0.00	0	0	0.0	4.65	1.24	0.0
651	1.76	3.766	1.496	9.92	0.068	7.222	0.86	0.39	4.3998	3.02	0	0	0.0	8.488	0.51	7.6
653	2.84	3.256	1.287	11.90	0	0	0.00	0.85	2.61	6.30	0	0	0.0	21.25	0.54	32.6
655	1.37	10.05	1.63	22.44	0.085	7.31	0.85	28.03	1.05	40.32	8.17	2.9	32.5	47.62	0.71	46.3
657	2.05	3.246	1.39	9.25	0	0	0.00	0.78	3.79	6.06	0.63	114	147.2	12	1.589	39.1
659	1.23	7.86	0.51	4.93	0.3	1.6	0.59	3.84	0.91	4.30	53.91	2.22	147.2	42.43	0.99	51.7
661	3.22	8.6	0.55	15.23	0.0036	152.27	1.77	1.46	5.06	23.79	0	0	0.0	9.725	0.384	12.0
663	2.92	3.285	0.825	7.91	0	0	0.00	0.83	4.416	10.70	2.444	33.03	235.7	10.9	0.565	18.0
665	1.63	2.01	1.51	4.95	0.25	3.11	1.27	0.47	2.73	2.09	0.99	12.86	20.8	0.93	11.18	16.9
667	0.97	5.027	1.39	6.78	0.04	7.04	0.27	1.525	1.64	2.43	14.29	2.64	36.6	25.89	0.51	12.8
669	1.04	16.52	0.875	15.03	0	0	0.00	0.156	10.22	1.66	0	0	0.0	2.76	1.15	3.3
671	0.35	12.29	1.17	5.03	0.185	8.495	0.55	4.478	2.79	4.37	101.76	1.236	44.0	101.87	0.99	35.3
673	0.55	5.73	1.1234	3.54	0.0293	10.787	0.17	0	0	0.00	1.384	41.4586	31.6	9.05	1.91	9.5
675	0.53	20.355	2.09	22.55	0.14	6	0.45	5.38	1.446	4.12	14.96	3.13	24.8	86.36	0.835	38.2
677	0.46	18.17	2.21	18.47	0.18	8.45	0.70	0.813	5.066	1.89	10.06	5.019	23.2	30.85	0.71	10.1
679	0.39	22.2	2.02	17.49	0.56	2.93	0.64	3.94	0.62	0.95	21.58	3.28	27.6	18.95	1.21	8.9
681	0.47	10.22	1.09	5.24	0.39	3.93	0.72	1.09	1.16	0.59	20.08	5.57	52.6	27.78	1.29	16.8
683	0.93	8.34	1.7	13.19	0.38	4.66	1.65	0.62	3.01	1.74	11.62	12.92	139.6	9.97	1.14	10.6
685	0.61	9.1	1.37	7.60	0.18	25.4	2.79	0.55	1.13	0.38	7.46	4.87	22.2	11.81	1.65	11.9
687	0.31	43.93	1.28	17.43	0.75	2.68	0.62	7.73	1.48	3.55	53.5	0.65	10.8	137.37	1.72	73.2
689	0.80	13.49	1.13	12.19	0.41	5.298	1.74	1.23	1.73	1.70	7.83	19.38	121.4	4.52	2.31	8.4
691	0.68	22.2	2.19	33.06	0.15	6.57	0.67	1.99	0.84	1.14	31.94	0.88	19.1	37.34	0.96	24.4
693	2.01	2.58	3.12	16.18	0	0	0.00	0.15	13.12	3.96	0.38	105.94	80.9	1.51	5.18	15.7
695	0.49	5.35	1.9	4.98	0	0	0.00	1.21	0.94	0.56	7.13	3.99	13.9	7.09	0.96	3.3
697	1.89	2.29	0.27	1.17	0	0	0.00	0.113	37.8	8.07	0	0	0.0	1.549	2.55	7.5
699	0.47	25.82	0.91	11.04	0.5	6.66	1.57	5.37	0.66	1.67	48.13	3.38	76.5	62.92	1.22	36.1
701	0.38	2.537	0.73	0.70	0.27	1.7	0.17	1.02	1.21	0.47	27.42	1.22	12.7	21.92	0.44	3.7
703	2.62	2.96	9.56	74.14	0.29	2.6	1.98	0.9	1.01	2.38	3.57	51.2	478.9	7.42	0.64	12.4
705	0.85	5.93	3.455	17.41	0.35	9.05	2.69	0.9	2.97	2.27	6.82	18.03	104.5	6.8	1.34	7.7
707	1.93	5.04	2.06	20.04	0.35	1.275	0.86	0.62	1.27	1.52	11.44	10.92	241.1	8.64	1.33	22.2
709	2.25	4.51	5.36	54.39	0.36	10.12	8.20	0.64	2.19	3.15	16.79	4.04	152.6	3.5	2.28	18.0
711	2.97	1.26	14.67	54.90	0	0	0.00	1.23	4.1	14.98	17.96	19.5	1040.2	13.91	7	289.2
Wtd. Avg	82.74			1.73			4.59			2.38			8.01			1.53

Wet Deposition (Soluble Fraction) Analytical Uncertainties.

Wet Soluble	Sample Volume (l)	Cr Conc.	Cr % RSD	Cr Cnc * %*Vol	Mn Conc.	Mn % RSD	Mn Cnc * %*Vol	Co Conc.	Co % RSD	Co Cnc * %*Vol	Ni Conc.	Ni % RSD	Ni Cnc * %*Vol	Cu Conc.	Cu % RSD	Cu Cnc * %*Vol
800	1.75	0	0	0	1.167	1.318	2.6916855	0	0	0	1.135	2.16	4.2903	0.52	2.56	2.3296
801	1.82	0	0	0	1.583	0.25	0.720265	0	0	0	3.28	1.28	7.641088	0.79	1.598	2.2976044
802	6.84	0	0	0	0	0	0	0	0	0	0.223	1.04	1.5863328	0.166	4.79	5.4387576
803				0			0			0			0			0
804	1.53	0	0	0	1.346	3.79	7.8050502	0.083	194.6	24.712254	3.93	7.43	44.675847	2.09	3.89	12.439053
805	1.64	0.024	127.44	5.0160384	0.464	0.52	0.3956992	0	0	0	0.392	5.99	3.8508512	0.456	3.7	2.767008
806	7.18	0	0	0	0	0	0	0	0	0	1.16	1.69	14.075672	0.575	0.797	3.2904145
807	7.31			0			0			0			0			0
808	5.94	0.118	36.91	25.8709572	0	0	0	0	0	0	0.1798	1.5	1.602018	0.102	4.756	2.88156528
809	0.09	1.06	1.73	0.165042	3.81	0.179	0.0613791	0.22	1.3	0.02574	6.21	0.392	0.2190888	5.03	0.265	0.1199655
810				0			0			0			0			0
811	2.23	0	0	0	0	0	0	0	0	0	1.61	3.02	10.842706	0.652	0.993	1.44378228
812	5.56	0.2	14.74	16.39088	0.54	2.16	6.485184	0.195	0.97	1.051674	0.31	5.93	10.220948	0.16	7.68	6.832128
814	3.10	0	0	0	0	0	0	0	0	0	0.68	1.71	3.60468	0.197	2.77	1.691639
816	2.39	0.075	7.42	1.330035	0.326	1.439	1.12118246	0	0	0	0	0	0	0.026	39.21	2.4365094
818	1.98	0	0	0	0	0	0	0	0	0	0.49	4.21	4.084542	0.231	0.877	0.40112226
820	1.37	0.095	29.24	3.805586	0.484	2.25	1.49193	0	0	0	1.22	4.49	7.504586	0.487	4.489	2.99501591
823	0.99	0.082	37.87	3.0742866	0.868	5.29	4.5458028	0	0	0	0.459	6.83	3.1036203	0.64	2.51	1.590336
825	1.70	0	0	0	0	0	0	0	0	0	0.173	2.96	0.870536	0.13	2.96	0.65416
827	1.63	0.018	120.16	3.5254944	0	0	0	0	0	0	0.614	2.049	2.05068018	0.22	6.3	2.25918
829	5.11	0.056	83.08	23.7741728	140.43	0.82	588.429786	0.199	1.32	1.3422948	0.18	4.78	4.396644	0.12	5.51	3.378732
831	4.46	0	0	0	0.295	15.84	20.840688	0.125	170.59	95.103925	0	0	0	0.31	20.48	28.315648
834	2.52	0.11	57.4	15.91128	0	0	0	0	0	0	1.13	1.67	4.755492	0.303	1.3	0.992628
835	2.24	0	0	0	0	0	0	0	0	0	0.59	5.53	7.308448	0.16	4.7	1.68448
837	3.99	0.54	5	10.773	12.01	0.156	7.4755044	0.25	0.44	0.4389	0.8	3.26	10.40592	1.8	1.7	12.2094
841	3.42	0	0	0	0	0	0	0	0	0	0.383	1.028	1.34653608	0.156	6.03	3.2171256
843	2.55	0	0	0	0	0	0	0	0	0	0.21	5.89	3.154095	0.0898	5.89	1.3487511
845	2.02	0.198	13.24	5.2954704	0.71	0.76	1.089992	0.2	1.1	0.4444	0.22	8.089	3.5947516	0.19	5.05	1.93819
847	1.04	0.31	12.07	3.891368	2.24	0.53	1.234688	0.339	0.82	0.2890992	2.61	1.56	4.234464	1.92	1.76	3.514368
849	1.57	5.21	3.41	27.892777	3.46	1.01	5.486522	0.66	0.3	0.31086	1.52	5.72	13.650208	3.46	1.83	9.940926
851	0.87	0	0	0	0.158	6.12	0.8412552	0	0	0	0.776	2.66	1.7958192	0.26	1.05	0.23751
853	4.36	0	0	0	0.21	14.08	12.891648	0	0	0	0.21	1.64	1.501584	0.63	4	10.9872
855	3.89	0.0119	429.086	19.86282	0.087	14.3	4.839549	0	0	0	0.262	3.376	3.44075168	0.515	0.759	1.52054265
857	1.04	0	0	0	0.45	3.21	1.50228	0	0	0	0.45	2.22	1.03896	0.345	2.94	1.054872
859	2.51	0	0	0	0	0	0	0	0	0	0.621	1.236	1.92656556	0.011	40.43	1.1162723
861	6.00	0	0	0	0.573	0.543	1.866834	0	0	0	0.156	1.46	1.36656	1.756	2.34	24.65424
863	1.23	1.04	5.69	7.278648	1.269	1.758	2.74400946	0	0	0	0.455	7.27	4.0686555	0.838	1.49	1.5358026
865	7.65	1.1	18.61	156.60315	0.597	3.39	15.4822995	0.58	2.34	10.38258	0.66	10.76	54.32724	0.83	5.1	32.38245
867	5.53	2.06	2.67	30.416106	0.56	0.58	1.796144	0.62	3.16	10.834376	0.96	8.33	44.222304	0.88	2.02	9.830128
869	6.19	0	0	0	0	0	0	0	0	0	0.249	4.335	6.68157885	0.098	2.7	1.637874
871	2.97	0	0	0	0.21	5.245	3.2713065	0	0	0	0.527	1.17	1.8312723	0.1055	5.473	1.71488246
873	3.30	0	0	0	1.656	2.06	11.257488	0	0	0	0.286	5.728	5.4060864	0.12	2.776	1.099296
875	3.45	0	0	0	0.0116	52.27	2.0918454	0	0	0	0.23	10.47	8.307945	0.0474	34.36	5.6188908
877	1.98	0	0	0	2.067	2.85	11.664081	0	0	0	0.21	1.95	0.81081	0.18	1.79	0.637956
879	0.29	0	0	0	16.64	0.83	4.005248	0	0	0	1.169	3.93	1.3323093	0.828	5.83	1.3998996
881	0.76	2.09	4.31	6.846004	1.53	2.17	2.523276	0.61	1.62	0.751032	0.795	8.16	4.930272	0.88	4.83	3.230304
883	1.08	0	0	0	2.39	2.18	5.627016	0	0	0	0.73	2.27	1.789668	0.145	3.95	0.61857
885	1.74	2.6	0.81	3.66444	1	4.155	7.2297	0.62	1.195	1.289166	1.29	6.47	14.522562	0.94	1.37	2.240772
887	1.93	4.35	8.3	69.68265	1.8	0.77	2.67498	0.63	1.09	1.325331	0.91	7.71	13.541073	1.04	2.5	5.018
889	1.76	4.74	3.99	33.286176	1.48	2.54	6.616192	0.61	1.32	1.417152	1.55	3.96	10.80288	0.99	8.13	14.165712
891	1.04	0.125	18.79	2.4427	3.52	0.26	0.951808	0.25	2.22	0.5772	0.65	3.56	2.40656	0.98	2.67	2.721264
893	0.50	0.98	13	6.37	0.82	2.5	1.025	0.58	3.03	0.8787	0.99	4.49	2.22255	0.69	6.85	2.36325
895				0			0			0			0			0
897	0.27	0	0	0	3.1	1.43	1.19691	0	0	0	1.39	2.12	0.795636	1.198	1.219	0.39429774
899	0.53	1.22	11.04	7.138464	2.31	4.4	5.38692	0.62	2.86	0.939796	1.05	13.42	7.46823	0.99	2.56	1.343232
901	1.83	0.07	52.32	6.702192	1.02	1.44	2.687904	0.21	1.48	0.568764	0.48	4.43	3.891312	0.25	4.54	2.07705
903	1.23	5.11	1.91	12.004923	1.46	1.43	2.567994	0.62	2.21	1.685346	1.06	2.69	3.507222	1.12	2.57	3.540432
905	0.06	5.04	6.68	2.020032	1.19	2.51	0.179214	0.62	1.285	0.047802	1.41	1.46	0.123516	1.72	5.23	0.539736
907	0.67	5.33	4.03	14.391533	1.73	3.38	3.917758	0.65	0.42	0.18291	1.56	3.87	4.044924	2.68	3.65	6.55394
909	3.61	4.92	3.08	54.704496	0.86	1.68	5.215728	0.61	0.33	0.726693	0.8	3.31	9.55928	1.02	5.11	18.816042
911	2.52	5.09	8.9	114.15852	0.9	2.94	6.66792	0.64	0.71	1.145088	1.25	8.59	27.0585	0.96	0.71	1.717632
Wtd. Avg				6.94			0.92			6.63			4.39			3.27

A-2.4

Wet Deposition (Soluble Fraction) Analytical Uncertainties.

Wet Soluble	Sample Volume (l)	Zn Conc.	Zn % RSD	Zn Cnc * %*Vol	Cd Conc.	Cd % RSD	Cd Cnc * %*Vol	Pb Conc.	Pb % RSD	Pb Cnc * %*Vol	Fe Conc.	Fe % RSD	Fe Cnc * %*Vol	Al Conc.	Al % RSD	Al Cnc * %*Vol
800	1.75	3.84	1.77	11.8944	0.017	10.92	0.32487	0.58	4.09	4.15135	5.41	12.35	116.923625	15.49	0.92	24.9389
801	1.82	4.05	2.14	15.77394	0.085	11.5	1.77905	0.933	2.2	3.735732	10.1	5.33	97.97606	13.31	1.976	47.8670192
802	6.84	1.51	2.1	21.68964	0	0	0	2.41	6.22	102.532968	0.492	144.1	484.936848	7.71	1.165	61.437906
803				0			0			0			0			0
804	1.53	3.44	4.28	22.526496	0	0	0	1.69	2.13	5.507541	26.42	10.72	433.330272	20.66	0.69	21.810762
805	1.64	3.08	3.43	17.325616	0.0108	55.1188	0.97626419	5.205	1.675	14.298135	9.0572	12.3122	182.883055	13.99	2.275	52.19669
806	7.18	2.25	2.813	45.444015	0.13	4.445	4.148963	0.35	6.63	16.66119	1.165	32.61	272.772867	1.25	1.87	16.78325
807	7.31			0			0			0			0			0
808	5.94	1.82	2.01	21.729708	0	0	0	0	0	0	0.2107	414.92	519.296445	3.6	0.672	14.370048
809	0.09	114.12	1.77	18.179316	0.696	2.35	0.147204	5.98	0.1227	0.06603714	95.15	1.265	10.8328275	67.19	1.01	6.107571
810				0			0			0			0			0
811	2.23	2.295	3.75	19.1919375	0.028	40.42	2.5238248	0.16	30.24	10.789632	3.82	14.22	121.134492	4.96	1.65	18.25032
812	5.56	0.97	1.38	7.442616	0.254	1.62	2.2878288	0.4045	2.26	5.0827852	1.358	25.84	195.104403	2.12	3.72	43.848384
814	3.10	1.122	2.09	7.269438	0	0	0	0	0	0	0.88	70.13	191.31464	1.01	7.47	23.38857
816	2.39	3.326	4.07	32.3529998	0.097	2.93	0.6792619	0.24	2.63	1.508568	0.61	26.44	38.546876	0.3697	17.89	15.8072999
818	1.98	1.86	1.9	6.99732	0	0	0	0.318	14.18	8.9282952	0	0	0	5.66	0.384	4.3034112
820	1.37	3.194	2.6431	11.5656241	0.046	19.55	1.232041	0.624	4.35	3.718728	3.89	15.64	83.350252	6.72	2.25	20.7144
823	0.99	3.465	1.622	5.5640277	0.0115	44.75	0.50947875	0.485	3.65	1.7525475	5.44	12.654	68.1493824	5.884	2.82	16.4269512
825	1.70	1.57	3.35	8.94115	0	0	0	0	0	0	0	0	0	2.06	2.48	8.68496
827	1.63	1.55	0.65	1.642225	0	0	0	0	0	0	2.56	27.82	116.087296	4.76	0.455	3.530254
829	5.11	2.67	1.59	21.693483	0.24	1.54	1.888656	0.35	2.07	3.702195	2.42	10.79	133.431298	4.19	2.77	59.308193
831	4.46	0.7	10.28	32.09416	0	0	0	0.25	21.05	23.47075	4.14	118.96	2196.52502	0.21	165.11	154.642026
834	2.52	2.459	2.119	13.1307649	0.0117	60.45	1.7823078	0.183	9.71	4.4778636	0	0	0	0.74	1.29	2.405592
835	2.24	1.59	2.62	9.331392	0	0	0	0.07	46.87	7.349216	0.57	36.24	46.271232	2.3	3.79	19.52608
837	3.99	13.64	1.18	64.219848	0.71	3.51	9.943479	0.438	4.35	7.602147	4.47	3.97	70.806141	16.48	0.86	56.549472
841	3.42	1.084	1.23	4.5599544	0	0	0	0	0	0	0	0	0	2.28	0.985	7.680636
843	2.55	1.35	1.1	3.78675	0	0	0	0.45	6.04	6.9309	0	0	0	0.81	1.196	2.470338
845	2.02	1.32	2.28	6.079392	0.24	1.75	0.8484	0.62	2.47	3.093428	2.12	18.49	79.181576	4.65	2.35	22.07355
847	1.04	5.72	0.23	1.368224	0.31	3.59	1.157416	2.92	1.29	3.917472	23.2	0.72	17.37216	31.27	1.12	36.423296
849	1.57	9.22	1.69	24.463426	0.41	8.46	5.445702	3.4	0.57	3.04266	12.39	9.34	181.684482	33.12	0.69	35.878896
851	0.87	2.08	1.05	1.90008	0	0	0	0.496	4.21	1.8166992	0.859	90.37	67.5362121	12.25	2.04	21.7413
853	4.36	2.15	1.88	17.62312	0	0	0	0.54	7.68	18.081792	0	0	0	5.14	1.31	29.357624
855	3.89	2.5	0.988	9.6083	0	0	0	0	0	0	0.15	419	244.4865	1.74	1.79	12.115794
857	1.04	3.63	0.934	3.5260368	0	0	0	0.791	3.09	2.5419576	1.38	36.74	52.729248	24.335	1.076	27.2318384
859	2.51	1.53	1.48	5.683644	0	0	0	0.284	5.75	4.09883	0.0594	1206.16	179.831219	2.74	1.2698	8.73292252
861	6.00	3.53	1.57	33.2526	0	0	0	0.34	6.21	12.6684	0	0	0	13.32	0.296	23.65632
863	1.23	4.11	2.09	10.565577	0.0555	5.61	0.38296665	0.663	1.47	1.1987703	16.77	2.19	45.173349	14.72	1.56	28.244736
865	7.65	1.41	11.94	128.79081	0.26	11.54	22.95306	0.63	3.67	17.687565	1.06	97.74	792.57366	1.818	10.23	142.275771
867	5.53	1.33	5.37	39.495813	0.32	3.63	6.423648	0.57	3.11	9.803031	7.61	38.87	1635.77787	2.55	3.81	53.726715
869	6.19	1.21	0.201	1.5054699	0	0	0	0	0	0	0	0	0	2.18	2.25	30.36195
871	2.97	1.295	0.57	2.1923055	0	0	0	0.304	13.4	12.098592	1.75	30.2	156.9645	3.73	1.465	16.2294165
873	3.30	2.169	1.25	8.947125	0	0	0	0.00457	384.8	5.8031688	0	0	0	4.75	2.78	43.5765
875	3.45	1.247	3.01	12.9494715	0	0	0	0.183	13.65	8.6179275	0	0	0	2.349	0.691	5.59989855
877	1.98	3.45	1.79	12.22749	0	0	0	0.51	5.349	5.4014202	0.316	207.6	129.891168	5.57	2.22	24.483492
879	0.29	11.43	1.49	4.938903	0.182	5.415	0.2858037	1.327	5.96	2.2935868	1.227	61.64	21.9333612	34.62	1.23	12.348954
881	0.76	2.46	10.13	18.939048	0.34	3.52	0.909568	0.8	2.02	1.22816	6.56	31.91	159.090496	10.71	0.86	7.000056
883	1.08	2.35	2.18	5.53284	0	0	0	0.37	10.05	4.01598	0	0	0	7.09	1.94	14.854968
885	1.74	2	7.37	25.6476	0.36	5.27	3.301128	0.75	2.72	3.5496	11.39	13.09	259.425474	6.98	1.32	16.031664
887	1.93	3.19	3.43	21.117481	0.36	5.05	3.50874	1.26	3.05	7.41699	7.1	29.91	409.85673	10.49	1.65	33.405405
889	1.76	2.47	3.51	15.258672	0.37	3.235	2.106632	0.85	2.01	3.00696	6.14	39.13	422.854432	6.63	0.71	8.284848
891	1.04	5.88	1.01	6.176352	0.31	1.86	0.599664	1.95	0.86	1.74408	14.55	0.95	14.3754	29.88	1.02	31.696704
893	0.50	3.15	4.99	7.85925	0.26	7.07	0.9191	0.6	1.38	0.414	1.53	69	52.785	4.92	1.51	3.7146
895				0			0			0			0			0
897	0.27	12.94	1.75	6.11415	0.169	2.99	0.1364337	2.55	2.76	1.90026	26.65	3.857	27.7530435	24.94	0.348	2.3433624
899	0.53	3.49	4.24	7.842728	0.3	2.53	0.40227	1.11	3.25	1.911975	5.53	15.5	45.42895	20.11	1.34	14.282122
901	1.83	2.23	2.18	8.896362	0.25	1.3	0.59475	0.92	1.31	2.205516	7.2	5.13	67.59288	9.65	1.65	29.138175
903	1.23	3.12	7.21	27.669096	0.35	1.43	0.615615	1.2	1.93	2.84868	13.56	12.77	212.988276	13.39	0.63	10.375911
905	0.06	6.64	2.08	0.828672	0.44	12.39	0.327096	1.477	1.19	0.1054578	13.48	12.49	10.101912	13.8	0.23	0.19044
907	0.67	5.88	1.33	5.239668	0.36	3.68	0.887616	1.85	1.87	2.317865	27.57	4.1	75.73479	19.1	1.26	16.12422
909	3.61	2.65	4.41	42.188265	0.33	9.6	11.43648	0.95	1.33	4.561235	7.37	8.44	224.552108	4.8	1.64	28.41792
911	2.52	2.52	2.23	14.161392	0.335	1.51	1.274742	1	1.93	4.8636	9.165	10.31	238.117698	8.31	3.36	70.362432
Wtd. Avg				2.49			5.02			4.16			22.79			1.69

Dry Deposition (Acid Desorbed Fraction) Analytical Uncertainties.

Acid Des. Dry Dep	Cr Conc.	Cr % RSD	Cr Cnc * %	Mn Conc.	Mn % RSD	Mn Cnc * %	Co Conc.	Co % RSD	Co Cnc * %	Ni Conc.	Ni % RSD	Ni Cnc * %	Cu Conc.	Cu % RSD	Cu Cnc * %	Zn Conc.	Zn % RSD	Zn Cnc * %
600	0.12	48.22	5.7864	0	0	0	0	0	0	0.13	5.5	0.715	0.43	0.77	0.3311	0.87	1.13	0.9831
601			0			0			0			0			0			0
602	0.19	7.33	1.3927	0	0	0	0	0	0	0.28	3.29	0.9212	0.31	1.62	0.5022	0.57	2.66	1.5162
603	5.1	3.19	16.269	0.49	1.33	0.6517	0.59	0.97	0.5723	0.7	8.82	6.174	0.8	1.13	0.904	0.95	5.91	5.6145
604			0			0			0			0			0			0
605			0			0			0			0			0			0
606			0			0			0			0			0			0
607			0			0			0			0			0			0
608	0.13	20.25	2.6325	1	0.82	0.82	0.21	1.17	0.2457	0.54	4.91	2.6514	0.49	2.73	1.3377	2.98	2.29	6.8242
609	0.19	29	5.51	0.38	0.99	0.3762	0.45	46.95	21.1275	0.03	690	20.7	1.32	1.82	2.4024	2.44	3.04	7.4176
610			0			0			0			0			0			0
611	0	0	0	0	0	0	0	0	0	0.14	3.57	0.4998	0.06	3.29	0.1974	0.43	1.6	0.688
612			0			0			0			0			0			0
614			0			0			0			0			0			0
616	4.6	4.7	21.62	2.11	2.99	6.3089	0.63	2.6	1.638	0.99	3.96	3.9204	1.81	4.495	8.13595	3.56	6.33	22.5348
618	0.09	56.82	5.1138	0.79	2.18	1.7222	0.21	0.82	0.1722	0.33	4.36	1.4388	0.7	6.06	4.242	1.62	3.76	6.0912
620	0.05	107.98	5.399	0.43	2.43	1.0449	0.2	0.88	0.176	0.12	6.8	0.816	0.36	1.76	0.6336	0.86	3.77	3.2422
623	0.03	25.17	0.7551	0.02	20.72	0.4144	0.37	73.03	27.0211	0	0	0	0.11	6.64	0.7304	0.81	5.66	4.5846
625	0.15	45.64	6.846	0	0	0	0.03	4.37	0.1311	0.1	9.52	0.952	0.12	4.43	0.5316	0.31	5.14	1.5934
627	0.16	37.06	5.9296	0.02	30.55	0.611	0.04	7.58	0.3032	0.13	6.13	0.7969	0.18	3.57	0.6426	0.56	3.5	1.96
629	0.14	26.27	3.6778	0.298	0.44	0.13112	0.19	1.14	0.2166	0.1	17.16	1.716	0.19	5.05	0.9595	0.59	3.4	2.006
631	0	0	0	0	0	0	0	0	0	0.19	4.42	0.8398	0.09	5.8	0.522	0.64	5.93	3.7952
634	0.13	54.2	7.046	0.83	2.95	2.4485	0.24	8.15	1.956	0.39	5.3	2.067	0.72	5.79	4.1688	1.49	1.79	2.6671
635	0.08	77.37	6.1896	0.43	1.17	0.5031	0.25	1.22	0.305	0.2	4.49	0.898	0.77	2.48	1.9096	1.13	4.12	4.6556
637	0.09	55.42	4.9878	0.61	1.48	0.9028	0.21	1.02	0.2142	1.39	1.37	1.9043	0.35	3.01	1.0535	1.61	5.25	8.4525
641	0.38	10.52	3.9976	0.86	1.13	0.9718	0.23	0.8	0.184	0.735	2.15	1.58025	1.16	2.23	2.5868	1.54	3	4.62
643	0.13	20.07	2.6091	0.56	6.58	3.6848	0.2	0.42	0.084	0.45	3.14	1.413	0.38	1.13	0.4294	1.25	3.27	4.0875
645	0	0	0	0	0	0	0	0	0	0.22	5.25	1.155	0	0	0	1.06	1.42	1.5052
647	0.19	21.34	4.0546	0.72	0.83	0.5976	0.22	1.75	0.385	0.38	2.61	0.9918	0.47	1.19	0.5593	1.48	1.14	1.6872
649	4.75	10.68	50.73	1.03	2.94	3.0282	0.63	2.4	1.512	0.74	6.66	4.9284	0.97	4.65	4.5105	1.19	9.72	11.5668
651	0	0	0	0	0	0	0	0	0	0.04	12.22	0.4888	0	0	0	0.39	2.83	1.1037
653	0.95	28.5	27.075	0.68	3.56	2.4208	0.58	2.26	1.3108	0.64	9.53	6.0992	2.22	3.93	8.7246	1.01	10.97	11.0797
655	2.05	11.63	23.8415	1.34	2.25	3.015	0.65	1.12	0.728	0.96	8.13	7.8048	1.74	2.82	4.9068	2.5	5.31	13.275
657			0			0			0			0			0			0
659	0.12	28.74	3.4488	0.5	1.84	0.92	0.21	2.16	0.4536	0.2	20.9	4.18	0.47	2.72	1.2784	0.66	6.52	4.3032
661	0	0	0	0	0	0	0	0	0	0.3	2.14	0.642	0.35	2.03	0.7105	2.56	2.77	7.0912
663	0	0	0	0	0	0	0	0	0	0.2	5.95	1.19	0.3	0.84	0.252	0.67	0.9	0.603
665	0	0	0	0	0	0	0	0	0	0.1	10.19	1.019	0.2	6.84	1.368	0.78	1.62	1.2636
667	0.3	19.2	5.76	0.04	7.87	0.3148	0.04	3.15	0.126	0.22	6.03	1.3266	0.18	5.83	1.0494	0.64	4.92	3.1488
669	0	0	0	0	0	0	0	0	0	0.64	3.38	2.1632	0.46	5.31	2.4426	2.3	2.84	6.532
671	4.82	3.49	16.8218	0.53	2.23	1.1819	0.6	1.965	1.179	0.84	9.8	8.232	0.87	4.16	3.6192	0.99	2.14	2.1186
673	0	0	0	1.86	2.06	3.8316	0	0	0	0.37	2.46	0.9102	2.55	1.37	3.4935	4.56	2.97	13.5432
675	0	0	0	0	0	0	0	0	0	0.24	1.56	0.3744	0.39	4.79	1.8681	0.8	2.18	1.744
677	0.89	14.82	13.1898	2.76	2.36	6.5136	0.66	2.88	1.9008	8.84	3.5	30.94	1.08	4.78	5.1624	5.04	3.11	15.6744
679	0.28	20.83	5.8324	0.69	1.34	0.9246	0.05	3.62	0.181	0.27	4.01	1.0827	0.88	3.27	2.8776	1.16	2.65	3.074
681	0.07	29.7	2.079	1.63	0.21	0.3423	0.21	0.62	0.1302	0.62	8.17	5.0654	0.45	3.23	1.4535	1.67	3.35	5.5945
683	2.08	8.51	17.7008	5.64	0.97	5.4708	0.7	1.43	1.001	0.98	4.88	4.7824	4.48	2.97	13.3056	2.93	4.73	13.8589
685	4.99	2.99	14.9201	0.66	4.76	3.1416	0.61	1.84	1.1224	0.76	4.75	3.61	0.96	3.89	3.7344	1.2	2.79	3.348
687	4.57	2.54	11.6078	1.78	2.88	5.1264	0.63	1.65	1.0395	1.01	4.73	4.7773	1.54	4.84	7.4536	1.98	5.37	10.6326
689	3.9	10.03	39.117	1.15	1.94	2.231	0.61	2.18	1.3298	1.07	8.46	9.0522	1.57	2.87	4.5059	1.68	7.27	12.2136
691	0.53	14.31	7.5843	0.49	2.28	1.1172	0.05	7.77	0.3885	0.53	3.35	1.7755	1.07	0.64	0.6848	1.28	3.78	4.8384
693	1.12	23.36	26.1632	0.49	3.39	1.6611	0.59	2.22	1.3098	0.64	12.47	7.9808	0.67	5.58	3.7386	0.94	11.68	10.9792
695	0.98	11.67	11.4366	2.68	1.54	4.1272	0.6	2.33	1.398	1.04	4.73	4.9192	2.85	1.93	5.5005	4.78	2.05	9.799
697	1.82	8.39	15.2698	0.59	3.35	1.9765	0.6	2.03	1.218	0.61	9.16	5.5876	0.86	4.96	4.2656	0.87	2.44	2.1228
699	0.25	25.39	6.3475	0.45	3.39	1.5255	0.05	3.24	0.162	0.23	9.94	2.2862	0.61	4.65	2.8365	1.02	3.44	3.5088
701	1.94	11.62	22.5428	4.21	1.98	8.3358	0.67	2.18	1.4606	1.31	4.49	5.8819	4.85	1.52	7.372	5.64	1.15	6.486
703	4.45	1.04	4.628	0.53	6.34	3.3602	0.6	1.7	1.02	0.63	5.49	3.4587	0.8	5.56	4.448	0.76	6.44	4.8944
705	1.85	3.11	5.7535	0.63	2.96	1.8648	0.61	1.72	1.0492	0.79	3	2.37	1.31	0.9	1.179	1.28	5.43	6.9504
707	0.11	40.16	4.4176	4.19	1.33	5.5727	0.29	1.42	0.4118	0.59	8.34	4.9206	8.65	2.38	20.587	2.83	0.36	1.0188
709	2.03	12.16	24.6848	0.54	6.36	3.4344	0.59	4.23	2.4957	0.56	7.51	4.2056	1.21	4.65	5.6265	0.93	7.03	6.5379
711			0			0			0			0			0			0
Wtd. Avg			8.28818134			2.07507102			5.14301987			5.79458064			2.92151283			3.6120626

Note: All acid desorbed volumes are 1.0 liters.

Dry Deposition (Acid Desorbed Fraction) Analytical Uncertainties.

Acid Des. Dry Dep	Cd Conc.	Cd % RSD	Cd Cnc * %	Pb Conc.	Pb % RSD	Pb Cnc * %	Fe Conc.	Fe % RSD	Fe Cnc * %	Al Conc.	Al % RSD	Al Cnc * %
600	0	0	0	0.3	5.48	1.644	26.05	2.83	73.7215	21.66	1.7	36.822
601			0			0			0			0
602	0	0	0	0	0	0	14.43	4.62	66.6666	5.51	1.58	8.7058
603	0.32	4.33	1.3856	0.53	1.09	0.5777	11.4	14	159.6	4.1	3.73	15.293
604			0			0			0			0
605			0			0			0			0
606			0			0			0			0
607			0			0			0			0
608	0.25	1.36	0.34	0.99	1.08	1.0692	27.28	1.83	49.9224	21.68	1.71	37.0728
609	0.07	10.37	0.7259	1.42	0.55	0.781	28.1	22.8	640.68	23.63	3.7	87.431
610			0			0			0			0
611	0	0	0	0	0	0	5.31	9.06	48.1086	2.91	0.72	2.0952
612			0			0			0			0
614			0			0			0			0
616	0.6	6.85	4.11	1.06	0.28	0.2968	10.66	10.3	109.798	16.47	1.22	20.0934
618	0.25	1.59	0.3975	0.9	1.09	0.981	18.16	3.15	57.204	14.84	0.61	9.0524
620	0.23	1.36	0.3128	0.49	1.45	0.7105	10.33	5.13	52.9929	11.48	1.09	12.5132
623	0.015	6.6	0.099	0.34	0.73	0.2482	9.89	39.45	390.1605	5.38	20.87	112.2806
625	0	0	0	0.1	7.93	0.793	2.2	20.02	44.044	4.41	1.82	8.0262
627	0.13	6.23	0.8099	0.32	0.88	0.2816	16.41	1.84	30.1944	4.76	0.81	3.8556
629	0.23	1.45	0.3335	3.67	1.24	4.5508	4.22	2.42	10.2124	4.15	1.77	7.3455
631	0	0	0	0.21	14.1	2.961	23.76	1.43	33.9768	7.71	0.86	6.6306
634	0.32	21.62	6.9184	2.13	3.41	7.2633	49.22	1.3	63.986	32.15	0.52	16.718
635	0.25	1.4	0.35	1.57	1.12	1.7584	9.396	2.6	24.4296	5.82	1.1	6.402
637	0.41	2.22	0.9102	0.54	2.7	1.458	22.31	1.53	34.1343	18.87	0.75	14.1525
641	0.24	3.34	0.8016	2.99	1.29	3.8571	72.12	2.1	151.452	57.9	0.41	23.739
643	0.29	1.46	0.4234	0.85	6.34	5.389	26.85	1.17	31.4145	15.67	0.99	15.5133
645	0	0	0	0.09	19.06	1.7154	9.27	8.68	80.4636	7.3	1.78	12.994
647	0.26	2.43	0.6318	1.05	0.88	0.924	40.8	2.4	97.92	20.96	2.2	46.112
649	0.33	6.28	2.0724	0.77	1.01	0.7777	46.34	4.08	189.0672	25.89	1.42	36.7638
651	0	0	0	0.06	56.82	3.4092	6.65	6.04	40.166	4.09	3.84	15.7056
653	0.22	7.85	1.727	0.56	2.24	1.2544	28.81	0.93	26.7933	17.13	1.29	22.0977
655	0.49	10.22	5.0078	4.24	1.82	7.7168	94.87	1.48	140.4076	57.42	0.82	47.0844
657			0			0			0			0
659	0.25	9.92	2.48	0.59	9.02	5.3218	16.99	1.4	23.786	13.92	1.95	27.144
661	0.0043	98.94	0.425442	0	0	0	12.06	5.28	63.6768	11.22	0.84	9.4248
663	0	0	0	0.11	25.05	2.7555	30.04	0.57	17.1228	21.04	3.15	66.276
665	0	0	0	0.114	25.83	2.94462	15.21	3.79	57.6459	5.88	1.45	8.526
667	0	0	0	0.11	2.92	0.3212	19.53	0.67	13.0851	7.54	3.02	22.7708
669	0	0	0	0.02	120.91	2.4182	7.58	5.16	39.1128	13.66	1.75	23.905
671	0.31	5.91	1.8321	0.49	2.73	1.3377	16.14	7.36	118.7904	6.64	2.91	19.3224
673	0	0	0	0.22	13.47	2.9634	18.61	4.67	86.9087	21.8	0.75	16.35
675	0	0	0	0	0	0	17.15	3.89	66.7135	8.74	0.6	5.244
677	0.26	11.99	3.1174	0.86	2.04	1.7544	23.29	5.57	129.7253	19.25	0.96	18.48
679	0	0	0	1.68	1.01	1.6968	33.23	2.63	87.3949	29.3	0.95	27.835
681	0.24	3.76	0.9024	0.69	2.32	1.6008	16.15	2.28	36.822	14.02	1	14.02
683	0.37	8.12	3.0044	2.57	0.81	2.0817	57.58	6.54	376.5732	44.62	1.18	52.6516
685	0.31	2.21	0.6851	0.72	1.95	1.404	14.71	12.75	187.5525	9.07	1.4	12.698
687	0.33	5.79	1.9107	1.66	2.46	4.0836	67.52	1.11	74.9472	45.51	1.35	61.4385
689	0.32	7.83	2.5056	0.64	4.29	2.7456	11.01	8.09	89.0709	6.54	7.05	46.107
691	0	0	0	1.93	1.07	2.0651	42.19	1.23	51.8937	31.03	2.67	82.8501
693	0.23	6.27	1.4421	0.49	1.9	0.931	6.63	25.15	166.7445	5.17	2.5	12.925
695	0.27	13.79	3.7233	1.61	3.75	6.0375	20.36	5.48	111.5728	23.39	1.29	30.1731
697	0.31	6.75	2.0925	0.42	1.83	0.7686	8.66	13.07	113.1862	4.03	3.66	14.7498
699	0	0	0	1.14	1.21	1.3794	25.49	1.08	27.5292	28.52	1.31	37.3612
701	0.36	3.22	1.1592	1.96	1.9	3.724	32.16	6.81	219.0096	33.86	1.2	40.632
703	0.33	6.02	1.9866	0.45	1.73	0.7785	11.97	11.17	133.7049	5.31	6.47	34.3557
705	0.31	6.58	2.0398	0.55	1.13	0.6215	12.19	15.95	194.4305	6.57	1.93	12.6801
707	0.25	1.38	0.345	2.28	0.96	2.1888	38.49	1.57	60.4293	31.11	0.53	16.4883
709	0.27	7.03	1.8981	0.48	4.93	2.3664	11.03	17.53	193.3559	6.16	3.23	19.8968
711			0			0			0			0
Wtd. Avg			6.11742723			2.2295422			4.48723674			1.56943924

Note: All acid desorbed volumes are 1.0 liters.

Wet Deposition (Acid Desorbed Fraction) Analytical Uncertainties.

Wet - Acid Desorbed	Cr Conc.	Cr % RSD	Cr Cnc * %	Mn Conc.	Mn % RSD	Mn Cnc * %	Co Conc.	Co % RSD	Co Cnc * %	Ni Conc.	Ni % RSD	Ni Cnc * %	Cu Conc.	Cu % RSD	Cu Cnc * %	Zn Conc.	Zn % RSD	Zn Cnc * %
800			0			0			0			0			0			0
801			0			0			0			0			0			0
802	0.04	118.18	4.7272			0			0	0.23	2.66	0.6118	0.24	3.47	0.8328	0.63	0.77	0.4851
803			0			0			0			0			0			0
804			0			0			0	0.05	13.26	0.663	0.09	6.7	0.603	0.43	3.61	1.5523
805			0			0			0	0.51	3.43	1.7493	0.14	6.63	0.9282	0.68	2.34	1.5912
806			0			0			0			0			0			0
807	0.06	32.66	1.9596	0.34	0.97	0.3298	0.2	0.39	0.078	0.11	14.75	1.6225	0.19	6.98	1.3262	0.52	2.19	1.1388
808			0			0			0	0.02	21.11	0.4222	0.02	33.31	0.6662	0.6	1.12	0.672
809	0.08	46.44	3.7152	0.43	2.17	0.9331	0.19	0.98	0.1862	0.21	8.47	1.7787	0.28	1.47	0.4116	1.17	4.82	5.6394
810			0			0			0			0			0			0
811			0			0			0	0.07	13.19	0.9233	0.09	6.05	0.5445	0.52	5.24	2.7248
812	0.13	29.7	3.861	0.33	0.629	0.20757	0.19	0.81	0.1539	0.24	6.39	1.5336	0.18	2.45	0.441	1.89	1.56	2.9484
814			0			0			0			0			0			0
816	0.03	77.51	2.3253			0	0.23	62.75	14.4325			0	0.12	9.86	1.1832	1	8.33	8.33
818			0			0			0	0.06	7.73	0.4638	0.07	6.01	0.4207	0.37	3.36	1.2432
820			0			0			0	0.03	22.49	0.6747	0.03	5.73	0.1719	0.44	2.04	0.8976
823	0.02	73.85	1.477	0.18	3.71	0.6678	0.14	243	34.02	0	0	0	0.15	38.6	5.79	0.94	10.04	9.4376
825	0.1	22.93	2.293	0.27	0.92	0.2484	0.19	0.65	0.1235	0.23	5.42	1.2466	0.08	17.71	1.4168	0.35	3.2	1.12
827			0			0			0			0			0			0
829	0.13	17.28	2.2464	11.23	0.21	2.3583	0.19	1.07	0.2033	0.34	4.77	1.6218	0.25	1.28	0.32	0.8	3.62	2.896
831			0			0			0	0.13	2.43	0.3159	0.12	4.42	0.5304	0.46	1.55	0.713
834	0.16	35	5.6			0	0.03	6.82	0.2046	0.23	6.36	1.4628	0.11	15.37	1.6907	0.79	1.17	0.9243
835	15	41.79	626.85			0	0.04	5.93	0.2372	0.06	18.16	1.0896	0.02	24.24	0.4848	0.8	2.55	2.04
837	0.03	23.22	0.6966	0.11	4.7	0.517	0.6	31.51	18.906			0	0.21	4.26	0.8946	1.41	4.76	6.7116
841	1.93	13.84	26.7112	0.52	5.02	2.6104	0.59	1.54	0.9086	0.62	1.44	0.8928	0.82	0.31	0.2542	0.81	2.49	2.0169
843	0.15	45.1	6.765	0.009	349.8	3.1482	0.04	6.07	0.2428	0.11	9.51	1.0461	0.07	10.81	0.7567	0.3	8.83	2.649
845			0			0			0	0.31	2.54	0.7874			0	0.51	6.9	3.519
847	0.16	31.23	4.9968	0.45	9.15	4.1175	0.23	3.78	0.8694	0.37	46.62	17.2494	0.58	28.52	16.5416	0.99	6.81	6.7419
849			0			0			0	0.15	5.27	0.7905	0.36	2.14	0.7704	0.98	0.93	0.9114
851	5.34	4.33	23.1222	0.47	1.3	0.611	0.6	1.63	0.978	0.68	10.87	7.3916	0.77	5.51	4.2427	0.85	15.55	13.2175
853	8.56	5.72	48.9632	0.31	1.22	0.3782	0.2	1.92	0.384	0.11	9.8	1.078	0.17	4.32	0.7344	0.38	6.16	2.3408
855			0			0			0	0.19	4.11	0.7809	0.14	4.51	0.6314	0.81	3.43	2.7783
857	0.22	39.74	8.7428	0.1	61.37	6.137	0.07	61.1	4.277	0.16	11.87	1.8992	0.64	2.29	1.4656	0.79	2.84	2.2436
859	1.03	17.95	18.4885	0.45	5.5	2.475	0.59	2.96	1.7464	0.54	13.29	7.1766	0.71	1.3	0.923	0.81	12.6	10.206
861			0			0			0	0.3	4.38	1.314	0.26	6.18	1.6068	1.73	0.35	0.6055
863	0.06	18.43	1.1058	0.06	13.5	0.81	0.35	50.8	17.78			0	0.24	23.97	5.7528	1.08	6.23	6.7284
865	4.5	10.76	48.42	0.54	1.99	1.0746	0.61	1.1	0.671	0.65	4.53	2.9445	0.98	2.59	2.5382	0.94	8.09	7.6046
867	2.02	2.17	4.3834	0.49	3.59	1.7591	0.61	1.22	0.7442	0.78	6.44	5.0232	0.84	1.53	1.2852	0.92	9.79	9.0068
869			0			0			0	0.07	10.51	0.7357	0.06	9.48	0.5688	0.52	2.78	1.4456
871	1.07	13.92	14.8944	0.5	7.71	3.855	0.59	2.32	1.3688	0.52	8.21	4.2692	0.66	4.51	2.9766	0.78	11.61	9.0558
873			0			0			0	0.1	9.08	0.908	0.32	1.61	0.5152	0.54	0.6	0.324
875	2.22	8.7	19.314	0.57	2.81	1.6017	0.61	2.02	1.2322	0.83	3.06	2.5398	0.88	4.64	4.0832	0.98	5.4	5.292
877			0			0			0	0.07	8.78	0.6146			0	0.48	4.84	2.3232
879	4.59	7.62	34.9758	0.83	3.95	3.2785	0.599	0.76	0.45524	1.02	2.33	2.3766	1.13	1.49	1.6837	1.65	6.33	10.4445
881	5.08	1.34	6.8072	0.47	2.9	1.363	0.59	1.04	0.6136	0.61	5.31	3.2391	0.76	5.6	4.256	0.69	7.12	4.9128
883	1.81	4.2	7.602	0.6	5.77	3.462	0.61	0.66	0.4026	0.64	3.29	2.1056	0.82	3.81	3.1242	0.86	6.02	5.1772
885			0			0			0			0			0			0
887	4.91	6.32	31.0312	0.58	1.39	0.8062	0.6	1.32	0.792	0.87	2.95	2.5665	1.08	1.08	1.1664	1.47	4.24	6.2328
889	2.04	8.49	17.3196	0.59	3.8	2.242	0.6	0.44	0.264	0.66	1.86	1.2276	0.88	4.23	3.7224	0.86	13.25	11.395
891	64	19.64	1256.96	0.58	3.88	2.2504	0.62	3.17	1.9654	0.65	2.92	1.898	0.73	6.43	4.6939	1.14	15.44	17.6016
893	22	31.52	693.44	0.3	1.3	0.39	0.19	0.53	0.1007	0.13	10.15	1.3195	0.08	13.34	1.0672	0.61	1.68	1.0248
895			0			0			0			0			0			0
897			0			0			0	0.19	1.77	0.3363	0.09	4.81	0.4329	1.33	3.34	4.4422
899	0.03	171.9	5.157	0.31	1.49	0.4619	0.2	0.67	0.134	0.05	18.47	0.9235	0.09	3.35	0.3015	0.48	9.61	4.6128
901	4.76	3.33	15.8508	0.51	3.18	1.6218	0.6	0.89	0.534	0.75	10.2	7.65	0.86	3.2	2.752	1.57	9.91	15.5587
903	0.15	44.9	6.735			0	0.03	5.13	0.1539	0.06	19.4	1.164	0.06	7.38	0.4428	0.19	4.38	0.8322
905	17	33.31	566.27			0	0.002	4.82	0.00964	0.007	8.47	0.05929	0.003	3.83	0.01149	0.01	1.92	0.0192
907	17	32.53	553.01			0	0.03	6.39	0.1917	0.08	22.04	1.7632	0.08	8.47	0.6776	0.37	4.04	1.4948
909	1.1	11.97	13.167	0.42	4.7	1.974	0.58	2.33	1.3514	0.5	4.63	2.315	0.54	5.98	3.2292	0.72	21.71	15.6312
911	0.18	33.64	6.0552			0	0.03	6.52	0.1956	0.07	11.49	0.8043	0.05	27.96	1.398	0.3	4.12	1.236
Wtd. Avg			21.8234291			2.29231762			8.64209684			6.72672545			5.14042275			5.83494303

Note: All acid desorbed volumes are 1.0 liters.

Wet Deposition (Acid Desorbed Fraction) Analytical Uncertainties.

Wet - Acid Desorbed	Cd Conc.	Cd % RSD	Cd Cnc * %	Pb Conc.	Pb % RSD	Pb Cnc * %	Fe Conc.	Fe % RSD	Fe Cnc * %	Al Conc.	Al % RSD	Al Cnc * %
800			0			0			0			0
801			0			0			0			0
802			0			0	7.18	14.67	105.3306	3.9	3.16	12.324
803			0			0			0			0
804			0			0	4.65	10.25	47.6625	2.44	2.6	6.344
805	0.001	146.6	0.1466			0	3.22	17.52	56.4144	1.17	3.35	3.9195
806			0			0			0			0
807	0.23	1.94	0.4462	0.38	2.71	1.0298	6.99	9.65	67.4535	2.44	2.29	5.5876
808			0	0.03	48.78	1.4634	3.54	29.55	104.607	2.86	2.67	7.6362
809	0.23	2.02	0.4646	0.4	4.06	1.624	7.28	6.73	48.9944	2.72	2.43	6.6096
810			0			0			0			0
811			0			0	3.02	13.75	41.525	2.41	3.93	9.4713
812	0.24	1.56	0.3744	0.38	3.11	1.1818	4.04	12.94	52.2776	2.74	2.56	7.0144
814			0			0			0			0
816	0.02	20.49	0.4098	0.18	1.89	0.3402	7.53	60.4	454.812	0.92	31.68	29.1456
818			0			0	4.79	11.13	53.3127	3.22	1.11	3.5742
820			0			0			0	1.6	1.9	3.04
823	0.02	14.73	0.2946	0.29	1.51	0.4379	2.66	143	380.38	8.2	18.9	154.98
825	0.245	2.4	0.588	0.35	3.48	1.218	1.93	23.48	45.3164	1.32	6.22	8.2104
827			0			0			0			0
829	0.23	2.18	0.5014	0.64	1.42	0.9088	7.18	6.53	46.8854	7.26	2.43	17.6418
831			0			0	1.33	40.57	53.9581	3.1	1.48	4.588
834			0	0.03	25.3	0.759			0	0.41	10.56	4.3296
835			0			0			0			0
837	0.18	5.07	0.9126	0.23	3	0.69	14.15	84.2	1191.43	14.43	7.14	103.0302
841	0.32	1.03	0.3296	0.41	0.64	0.2624	8.2	17.47	143.254	5.64	1.49	8.4036
843			0	0.05	8.34	0.417	12.8	1.43	18.304	4.33	2.01	8.7033
845			0			0	3.65	15.63	57.0495	4.37	1.05	4.5885
847	0.28	11.88	3.3264	0.9	1.23	1.107	14.12	2.74	38.6888	25.54	1.88	48.0152
849			0	1.73	4.66	8.0618	23.55	0.69	16.2495	14.18	0.46	6.5228
851	0.31	7.41	2.2971	0.45	1.77	0.7965	10.98	13.99	153.6102	4.52	1.88	8.4976
853	0.22	1.71	0.3762	0.32	2.23	0.7136	8.58	2.2	18.876	4.38	2.12	9.2856
855			0			0	10.34	5.15	53.251	8.53	1.89	16.1217
857			0	0.03	88.9	2.667	6.52	4.63	30.1876	5.97	0.71	4.2387
859	0.22	4.55	1.001	0.43	2.06	0.8858	8.81	16.66	146.7746	4.69	1.53	7.1757
861			0			0	9.14	2.05	18.737	6.9	1.51	10.419
863	0.02	17.34	0.3468	0.19	2.66	0.5054	14.35	40.07	575.0045	7.82	8	62.56
865	0.33	5.57	1.8381	0.57	2.63	1.4991	16.59	13.28	220.3152	9.56	0.73	6.9788
867	0.36	2.33	0.8388	0.49	4.39	2.1511	10.9	10.22	111.398	4.43	3.31	14.6633
869			0	0.12	9.88	1.1856	14.98	3.13	46.8874	12.26	0.39	4.7814
871	0.22	3.41	0.7502	0.48	2.66	1.2768	13.55	6.9	93.495	8.99	1.84	16.5416
873			0	0.21	22.51	4.7271	31.8	1.8	57.24	33.84	2.47	83.5848
875	0.3	2.21	0.663	0.51	2.43	1.2393	15.4	7.39	113.806	9.22	2.73	25.1706
877			0	0.06	25.7	1.542	8.56	7.71	65.9976	5.04	0.72	3.6288
879	0.36	4.59	1.6524	0.91	2.79	2.5389	35.12	4.44	155.9328	25.46	0.98	24.9508
881	0.31	1.6	0.496	0.47	2.85	1.3395	10.43	15.89	165.7327	6.23	1.46	9.0958
883	0.31	8	2.48	0.52	1.12	0.5824	18	10.3	185.4	9.74	2.64	25.7136
885			0			0			0			0
887	0.31	3.97	1.2307	0.6	1.01	0.606	11.96	8.13	97.2348	6.53	0.28	1.8284
889	0.31	6.56	2.0336	0.6	2.82	1.692	19.95	9.8	195.51	9.22	0.97	8.9434
891	0.25	7.68	1.92	0.49	4.59	2.2491	12.28	6.13	75.2764	5.8	0.97	5.626
893	0.23	1.6	0.368	0.34	2.29	0.7786	3.72	7.34	27.3048	2.6	2.57	6.682
895			0			0			0			0
897			0			0	1.09	62.83	68.4847	0.74	4.06	3.0044
899	0.22	2.2	0.484	0.31	3.03	0.9393	6.83	4.58	31.2814	2.72	1.49	4.0528
901	0.3	1.7	0.51	0.53	2.73	1.4469	11.17	5.39	60.2063	7.31	2.31	16.8861
903			0			0	4.26	4.72	20.1072	3.1	4.26	13.206
905			0	0.002	3.33	0.00666	0.13	17.5	2.275	0.04	1.4	0.056
907			0			0	2.53	19.04	48.1712	3.6	1.4	5.04
909	0.23	9.49	2.1827	0.42	2.4	1.008	2.7	21.77	58.779	2.33	2.46	5.7318
911			0			0	3.37	9.88	33.2956	2.61	1.44	3.7584
Wtd. Avg			4.29935921			3.44656923			12.7819629			2.64710335

Note: All acid desorbed volumes are 1.0 liters.

Dry Deposition Samples, Soluble Fraction (ICP-MS)

Nahant Dry Deposition Samples (ng/ml)

Sample ID	Process	600	601	604	605	606	607	609	611	614
Start Date	Blank	7/7/92	7/7/92	7/22/92	7/22/92	8/6/92	8/6/92	8/19/92	9/2/92	9/16/92
Time (hrs)		360	360	360	360	311.833	311.833	336.42	335.25	335.667
Soluble Fraction										
Volume (l)		4.09567	4.4868	missing	1.43547	1.52399	0.88335	0.1668	0.97346	1.24481
Cr (sol)	0	0	0		0.2002	0	0.1646	0.4288	0.2288	0.3646
Mn (sol)	0	2.3291	1.7402		2.4174	0.979	1.7215	17.8607	1.6258	3.482
Co (sol)	0.6015	0.6321	0		0	0	0	0.3809	0	0
Ni (sol)	0	0.7556	1.6087		1.1037	0.8169	3.4146	4.5148	0.9364	0.8476
Cu (sol)	0.1381	1.0082	1.1007		2.607	1.3707	2.6832	6.9923	1.9335	1.1401
Zn (sol)	0	4.9925	4.432		9.3631	7.0158	10.8281	49.187	8.0989	5.5782
Cd (sol)	0.0513	0.1567	0.121		0.0873	0.0393	0.3107	0.8703	0.0174	0.0083
Pb (sol)	0	1.6667	0.9415		1.5029	0.5785	0	3.6716	1.489	0.24
Fe (sol)	3.7241	1.6581	8.6433		12.5833	8.5041	3.835	32.3044	9.1938	5.1945
Al (sol)	2.4234	24.11	14.3317		21.1109	9.6369	8.501	53.6065	25.4869	8.0031

Dry Deposition Samples, Soluble Fraction (ICP-MS)

Nahant Dry Deposition Samples (ng/ml)

Sample ID	618	623	627	631	635	639	643	647	651
Start Date	9/30/92	10/14/92	10/27/92	11/10/92	11/23/92	12/7/92	12/21/92	1/6/93	1/20/93
Time (hrs)	335.5	311.75	329.08	317.42	334.75	334.5	381.5	333.58	311.5
Soluble Fraction									
Volume (l)	0.97087	1.80315	0.28473	1.37347	0.60055	Destroye	0.31208	1.63297	1.7591
Cr (sol)	0	0.2253	0	0.2959	0.4103		0	0.3159	0
Mn (sol)	9.822	11.3659	2.6671	2.0471	9.978		12.3286	1.8514	1.4983
Co (sol)	0	0	0	0.1184	0.2075		0.7275	0.1072	0
Ni (sol)	1.4985	0.9846	5.8481	1.6192	4.4623		7.3972	2.0383	0.4156
Cu (sol)	1.7434	0.9505	4.7545	1.7269	5.8749		5.631	1.9679	0.5217
Zn (sol)	10.9729	4.2498	21.1946	5.8744	56.5763		27.9382	5.7197	3.7659
Cd (sol)	0	0.0233	0	0	0.8903		0	0.1284	0.0683
Pb (sol)	0.9038	0.1659	1.8557	1.2587	3.6049		7.1226	2.4872	0.3901
Fe (sol)	32.5335	2.9647	4.1381	3.3051	22.8665		33.3933	23.2029	0
Al (sol)	33.4062	2.9819	24.6764	21.2364	29.724		73.6573	31.2681	8.4883

Dry Deposition Samples, Soluble Fraction (ICP-MS)

Nahant Dry Deposition Samples (ng/ml)

Sample ID	655	659	663	667	671	675	679	683	687	691
Start Date	2/2/93	2/15/93	3/2/93	3/16/93	3/30/93	4/14/93	4/27/93	5/13/93	5/26/93	6/9/93
Time (hrs)	307.17	360.58	336.5	337	359.5	313.92	382.17	311.58	337.75	334.25
Soluble Fraction										
Volume (l)	1.36764	1.23162	2.92604	0.96581	0.35359	0.52664	0.39241	0.92524	0.31094	0.68093
Cr (sol)	0.3793	0.4699	0	0	1.2239	0	3.0555	5.0972	1.0028	0
Mn (sol)	3.5488	3.1801	1.1647	1.0831	5.9277	10.9992	22.0553	1.6306	73.4861	18.4697
Co (sol)	0.1726	0.3286	0	0	0	0	0.7911	0.6273	0.9158	0
Ni (sol)	2.3268	2.5533	0.705	2.1445	6.4718	3.0375	2.4424	1.4597	7.3651	2.5695
Cu (sol)	4.9653	1.9407	0.8384	2.4046	9.3733	5.9528	4.4034	6.4569	5.7853	3.4147
Zn (sol)	10.0479	7.8594	3.2849	5.0274	12.2908	20.355	22.196	8.3437	43.9332	22.1954
Cd (sol)	0.0846	0.2999	0	0.0358	0.1848	0.14	0.5638	0.3753	0.7472	0.1496
Pb (sol)	28.0273	3.8417	0.8323	1.5248	4.4784	5.3803	3.9392	0.6228	7.7396	1.9895
Fe (sol)	8.1735	53.9104	2.4443	14.2854	101.761	14.9582	21.5782	11.6199	53.5015	31.9374
Al (sol)	47.6244	42.4328	10.8993	25.8869	101.868	86.35	18.9473	9.9695	137.368	37.3394

Dry Deposition Samples, Soluble Fraction (ICP-MS)

Nahant Dry Deposition Samples (ng/ml)

Sample ID	695	699	701	703	707	711
Start Date	6/23/93	7/7/93	7/22/93	8/4/93	8/18/93	9/1/93
Time (hrs)	339.75	354.08	314.75	334.33	335.58	313.17
Soluble Fraction						
Volume (l)	0.49234	0.47008	0.37701	2.61772	1.92655	2.97423
Cr (sol)	0.5102	2.1241	0.5667	0.9649	5.2558	0.2729
Mn (sol)	3.6737	28.3528	1.8716	1.0148	0.5894	6.2991
Co (sol)	0.1666	0.961	0.2862	0.5906	0.6006	0.8063
Ni (sol)	7.9086	2.7347	1.74	1.136	1.6735	0.4306
Cu (sol)	10.4058	3.5857	10.2979	0.9507	4.7804	5.701
Zn (sol)	5.3475	25.8171	2.5374	2.963	5.0387	1.2639
Cd (sol)	0	0.502	0.2702	0.2937	0.3499	0
Pb (sol)	1.209	5.3723	1.0186	0.9041	0.6194	1.2294
Fe (sol)	7.1332	48.127	27.4228	3.5707	11.4359	17.9605
Al (sol)	7.0847	62.9236	21.9221	7.4232	8.6374	13.9142

Dry Deposition Samples, Soluble Fraction (ICP-MS)

Truro Dry Deposition Samples (ng/ml)

Sample ID	Process Blank	602	603	608	610	612	616	620	625	629
Start Date		7/17/92	7/17/92	8/12/92	9/1/92	9/15/92	9/29/92	10/13/92	10/27/92	11/10/92
Time (hrs)		622.25	622.25	480	336	336	334.5	336	336	336
Soluble Fraction Volume (l)		0.73811	5.74478	0.44589	missing	1.75274	1.13728	2.1947	1.30193	1.68396
Cr (sol)	0	1.5912	0	0.1213		0	0	0.1262	0	0.0846
Mn (sol)	0	5.0844	0.8982	4.3875		0.5772	5.4195	3.7884	0	0.9104
Co (sol)	0.6015	0	0	0.2486		0	0	0.2222	0	0.2182
Ni (sol)	0	3.3055	0.3666	0.8345		0.3486	1.9593	0.6395	0.7383	0.4533
Cu (sol)	0.1381	1.8978	0.3297	0.5633		0.1797	5.9171	0.3147	0.2596	0.4459
Zn (sol)	0	9.483	3.3128	7.1605		1.6753	27.6164	4.6193	3.4768	2.356
Cd (sol)	0.0513	0.1852	0	0.3445		0	0.2503	0.2929	0.0201	0.2538
Pb (sol)	0	4.6151	0.6842	0.7359		0	0.641	0.4904	0.5235	1.0084
Fe (sol)	3.7241	119.474	0.4155	21.8785		1.2868	7.4488	4.0342	0	1.8001
Al (sol)	2.4234	70.2167	14.3024	20.6682		4.1677	15.4689	9.7657	4.4033	4.9298

Dry Deposition Samples, Soluble Fraction (ICP-MS)

Truro Dry Deposition Samples (ng/ml)

Sample ID	634	637	641	645	649	653	657	661	665
Start Date	11/24/92	12/8/92	12/24/92	1/7/93	1/21/93	2/4/93	2/20/93	3/3/93	3/20/93
Time (hrs)	331	384	336	336	336	384	264	408	456
Soluble Fraction Volume (l)	1.79357	malfunt. 1.41192	0.96431	0.86506		2.83558	2.04691	3.22449	1.6324
Cr (sol)	0	0	0	0.3055	0	0	0	0	0.0391
Mn (sol)	0.1808	2.5007	1.4053	3.8703	1.3885	1.8641	1.3313	4.7313	0.6906
Co (sol)	0	0	0	0.3868	0	0	0	0	0.2027
Ni (sol)	0.4984	0.3055	0.4871	5.8195	0.2319	0.3105	0.6945	0.4289	0.2358
Cu (sol)	0.1715	0.1579	0.1859	2.0257	0.6601	28.8171	0.4053	0.8236	0.3499
Zn (sol)	2.1556	2.7187	4.9159	23.688	5.0736	3.2562	3.2463	8.6032	2.0125
Cd (sol)	0	0.1666	0.125	1.2422	0	0	0	0.0036	0.2539
Pb (sol)	0.0049	0	0	1.4235	0.6157	0.8524	0.7788	4.4558	0.4667
Fe (sol)	0	0.4792	1.3402	6.9557	0	0	0.6265	0	0.9907
Al (sol)	3.7706	10.5952	7.4568	13.2211	4.6481	21.2483	12.0119	9.7252	0.9272

Dry Deposition Samples, Soluble Fraction (ICP-MS)

Truro Dry Deposition Samples (ng/ml)

Sample ID	669	673	677	681	685	689	693	697	705	709
Start Date	4/8/93	4/29/93	5/25/93	6/9/93	7/1/93	7/15/93	7/28/93	8/8/93	8/21/93	9/1/93
Time (hrs)	505	622.75	359	528.5	336	312	265	310.75	264	384
Soluble Fraction Volume (l)	1.03731	0.55049	0.45972	0.47497	0.60855	0.80006	2.00765	1.88641	0.84707	2.25277
Cr (sol)	0	0	0.1026	1.88	0.2987	4.6376	0.1542	0	1.819	7.0169
Mn (sol)	3.2245	11.0974	73.9659	32.5918	7.1692	1.6711	0.691	0.5756	3.2985	1.9871
Co (sol)	0	0	0	0.7024	0.1528	0.6194	0.0447	0	0.6316	0.6238
Ni (sol)	0.5598	0.9944	1.4172	1.8912	1.0782	2.8544	0.3886	0.5199	1.7696	1.4185
Cu (sol)	0.537	6.4422	2.1976	1.4789	0.7259	3.2241	0.2348	0.1649	3.1503	3.1778
Zn (sol)	16.5165	5.7303	18.1736	10.2159	9.097	13.4941	2.5791	2.2895	5.9332	4.5137
Cd (sol)	0	0.0293	0.1814	0.3852	0.1827	0.4061	0	0	0.3488	0.3598
Pb (sol)	0.156	0	0.8127	1.0948	0.5538	1.2295	0.1496	0.113	0.9021	0.6418
Fe (sol)	0	1.3841	10.0608	20.0835	7.4586	7.8305	0.3768	0	6.815	16.79
Al (sol)	2.7629	9.0504	30.8535	27.7814	11.8047	4.5156	1.5135	1.5487	6.8033	3.4952

Wet Deposition Samples, Soluble (ICP-MS)

Nahant Wet Deposition Samples (ng/ml)

Sample ID		800	801	804	805	806	807	809	811
Start Date	Process	7/7/92	7/7/92	7/22/92	7/22/92	8/6/92	8/6/92	8/19/92	9/2/92
Time (hrs)	Blank	360	360	360	360	311.833	311.833	336.42	335.25
Soluble Fraction Volume (l)		1.75491	1.8175	1.5314	1.64027	7.18002	missing	0.09143	2.2276
Cr (sol)	0	0	0	0	0.024	0		1.0639	0
Mn (sol)	0	1.1666	1.5827	1.346	0.4638	0		3.8094	0
Co (sol)	0.6015	0	0	0.083	0	0		0.2178	0
Ni (sol)	0	1.1348	3.2796	3.9267	0.3919	1.1607		6.2148	1.6124
Cu (sol)	0.1381	0.5207	0.7887	2.0897	0.4562	0.5754		5.0285	0.6519
Zn (sol)	0	3.8411	4.0478	3.4396	3.0775	2.2496		114.118	2.2954
Cd (sol)	0.0513	0.0168	0.0849	0	0.0108	0.129		0.0691	0.0279
Pb (sol)	0	0.5815	0.933	1.6936	5.2048	0.3497		5.9768	0.1607
Fe (sol)	3.7241	5.4082	10.1035	26.42	9.0572	1.1652		95.1486	3.8209
Al (sol)	2.4234	15.493	13.3126	20.6639	13.9895	1.2469		67.1878	4.9573

Wet Deposition Samples, Soluble (ICP-MS)

Nahant Wet Deposition Samples (ng/ml)

Sample ID	814	818	823	827	831	835	839	843	847
Start Date	9/16/92	9/30/92	10/14/92	10/27/92	11/10/92	11/23/92	12/7/92	12/21/92	1/6/93
Time (hrs)	335.25	335.5	311.75	329.08	317.42	334.75	334.5	381.5	333.58
Soluble Fraction Volume (l)	3.10236	1.98922	0.99286	1.63138	4.45777	2.2371	destroye	2.55418	1.04366
Cr (sol)	0	0	0.0816	0.1522	0	0		0	0.2083
Mn (sol)	0	0	0.8675	0.7406	0.2947	0		0	0.8368
Co (sol)	0	0	0	0.2096	0.1248	0		0	0.2391
Ni (sol)	0.6783	0.4909	0.4594	0.6937	0	0.5912		0.3833	0.915
Cu (sol)	0.1975	0.2309	0.6363	0.2539	0.3124	0.1591		0.1563	0.5839
Zn (sol)	0.1216	1.8641	3.4645	1.6456	0.6956	1.5922		1.0839	3.3038
Cd (sol)	0	0	0.0115	0.2497	0	0		0	0.2749
Pb (sol)	0	0.3184	0.4849	0.7333	0.2512	0.0699		0	1.0497
Fe (sol)	0.8812	0	5.441	4.1365	4.1417	0.5732		0	10.802
Al (sol)	1.0052	5.6568	5.884	4.7803	0.2067	2.3039		2.2804	13.1113

Wet Deposition Samples, Soluble (ICP-MS)

Nahant Wet Deposition Samples (ng/ml)

Sample ID	851	855	859	863	867	871	875	879	883
Start Date	1/20/93	2/2/93	2/15/93	3/2/93	3/16/93	3/30/93	4/14/93	4/27/93	5/13/93
Time (hrs)	311.5	307.17	360.58	336.5	337	359.5	313.92	382.17	311.58
Soluble Fraction Volume (l)	0.8677	3.88724	2.51283	1.25384	5.52726	2.96639	3.44925	0.28621	1.08009
Cr (sol)	0	0.0119	0	0.6917	2.0631	0	0	0	0
Mn (sol)	0.1583	0.0869	0	1.7527	0.5608	0.2073	0.0116	16.6413	2.3906
Co (sol)	0	0	0	0.2611	0.6155	0	0	0	0
Ni (sol)	0.7758	0.2618	0.6208	1.0955	0.9556	0.5274	0.2324	1.1689	0.7263
Cu (sol)	0.2598	0.5146	0.0107	0.7504	0.8828	0.1055	0.0474	0.8284	0.1454
Zn (sol)	2.0796	2.5004	1.532	2.3192	1.3292	1.2953	1.2474	11.4257	2.3515
Cd (sol)	0	0	0	0.3091	0.3201	0	0	0.182	0
Pb (sol)	0.4959	0	0.2836	0.9798	0.5689	0.3041	0.1833	1.3268	0.3728
Fe (sol)	0.8587	0.1497	0.0594	16.7699	7.6062	1.7523	0	1.227	0
Al (sol)	12.2523	1.7401	2.7404	14.7172	2.5531	3.7349	2.3489	34.6206	7.0889

Wet Deposition Samples, Soluble (ICP-MS)

Nahant Wet Deposition Samples (ng/ml)

Sample ID	887	891	899	901	903	907	911
Start Date	5/26/93	6/9/93	7/7/93	7/22/93	8/4/93	8/18/93	9/1/93
Time (hrs)	337.75	674.25	354.08	314.75	334.33	335.58	313.17
Soluble Fraction Volume (l)	1.92993	1.0382	0.53219	1.83069	1.22635	0.66594	2.52101
Cr (sol)	4.3488	0.3236	1.2171	4.117	5.1053	5.329	5.085
Mn (sol)	1.7962	2.7366	2.3079	1.0842	1.4606	1.7254	0.8964
Co (sol)	0.6255	0.0852	0.6185	0.6159	0.6233	0.6526	0.6386
Ni (sol)	0.9104	0.5414	1.0458	0.8536	1.0595	1.5597	1.2498
Cu (sol)	1.0434	0.798	0.9902	0.9086	1.1182	2.6779	0.9601
Zn (sol)	3.188	4.7869	3.4852	2.2773	3.1237	5.8823	2.5184
Cd (sol)	0.3609	0.3133	0.3014	0.3367	0.3532	0.3631	0.3345
Pb (sol)	1.2631	1.3777	1.1098	0.96	1.1982	1.8494	0.9975
Fe (sol)	7.0992	11.3291	5.5318	10.0988	13.5602	27.5749	9.1647
Al (sol)	10.4909	25.3253	20.1098	11.2855	13.3947	19.1033	8.3131

Wet Deposition Samples, Soluble (ICP-MS)

Truro Wet Deposition Samples (ng/l)

Sample ID		802	803	808	810	812	816	820	825
Start Date	Process	7/17/92	7/17/92	8/12/92	9/1/92	9/15/92	9/29/92	10/13/92	10/27/92
Time (hrs)	Blank	622.25	622.25	480	336	336	334.5	336	336
Soluble Fraction Volume (l)		6.83787	missing	5.9366	missing	3.55692	2.38931	1.36604	1.69543
Cr (sol)	0	0		0.1183		0.1969	0.1147	0.0952	0
Mn (sol)	0	0		0		0.5691	0.6536	0.4845	0
Co (sol)	0.6015	0		0		0.1946	0.1919	0	0
Ni (sol)	0	0.223		0.1798		0.3103	0.1721	1.2204	0.1728
Cu (sol)	0.1381	0.1663		0.1022		0.1599	0.1956	0.4865	0.1307
Zn (sol)	0	1.5099		1.8192		0.9672	1.7563	3.1943	1.5701
Cd (sol)	0.0513	0		0		0.2543	0.2754	0.0458	0
Pb (sol)	0	2.4077		0		0.4045	0.468	0.6237	0
Fe (sol)	3.7241	0.492		0.2107		1.3581	0.6103	3.8882	0
Al (sol)	2.4234	7.7123		3.6035		2.1156	0.3697	6.7206	2.0637

Wet Deposition Samples, Soluble (ICP-MS)

Truro Wet Deposition Samples (ng/l)

Sample ID	829	834	837	841	845	849	853	857	861
Start Date	11/10/92	11/24/92	12/8/92	12/24/92	1/7/93	1/21/93	2/4/93	2/20/93	3/3/93
Time (hrs)	336	331	384	336	336	336	384	264	408
Soluble Fraction Volume (l)	5.11103	2.5236	3.99008	3.42041	2.01947	1.5747	4.36302	1.04114	6.00068
Cr (sol)	0.0559	0.1055	0.507	0	0.1982	5.2111	0	0	0
Mn (sol)	140.426	0	12.9702	0	0.7115	3.4574	0.2097	0.4517	0.5729
Co (sol)	0.1993	0	0.2498	0	0.2004	0.6587	0	0	0
Ni (sol)	0.1833	1.1283	0.8021	0.2104	0.2167	1.5146	0.2088	0.4501	0.1567
Cu (sol)	0.1216	0.3026	1.4964	0.0898	0.1866	3.4595	0.6325	0.3445	1.7567
Zn (sol)	2.6689	2.459	13.6369	1.3537	1.3179	9.2169	2.1464	3.6278	3.5334
Cd (sol)	0.2419	0.0117	0.7115	0	0.2392	0.4083	0	0	0
Pb (sol)	0.3538	0.1826	0.4384	0.4516	0.6193	3.3977	0.541	0.7908	0.3415
Fe (sol)	2.424	0	4.4705	0	2.1159	12.393	0	1.3809	0
Al (sol)	4.1913	0.7412	16.4647	0.8064	4.6521	33.1229	5.1383	24.335	13.3208

Wet Deposition Samples, Soluble (ICP-MS)

Truro Wet Deposition Samples (ng/l)

Sample ID	865	869	873	877	881	885	889	893	897
Start Date	3/20/93	4/8/93	4/29/93	5/25/93	6/9/93	7/1/93	7/15/93	7/28/93	8/8/93
Time (hrs)	456	505	622.75	359	528.5	336	312	265	310.75
Soluble Fraction Volume (l)	7.65126	6.19359	3.29523	1.98371	0.75763	1.74493	1.75689	0.49916	0.27335
Cr (sol)	1.1032	0	0	0	2.0875	4.9955	4.7433	0.9771	0
Mn (sol)	0.5972	0	1.6564	2.0671	1.5264	0.4616	1.4789	0.8188	3.1042
Co (sol)	0.5827	0	0	0	0.6098	0.6011	0.6059	0.584	0
Ni (sol)	0.6554	0.2489	0.2864	0.2107	0.7947	1.1929	1.5499	0.9869	1.3925
Cu (sol)	0.8287	0.0975	0.1202	0.1769	0.8777	0.7626	0.9885	0.6939	1.1979
Zn (sol)	1.4069	1.2095	2.1688	3.4473	2.4621	0.815	2.4675	3.1505	12.941
Cd (sol)	0.2617	0	0	0	0.3389	0.2948	0.3686	0.2562	0.169
Pb (sol)	0.6275	0	0.0046	0.5103	0.8033	0.4264	0.8464	0.5992	2.5453
Fe (sol)	1.0608	0	0	0.3158	6.56	8.3446	6.1404	1.5316	26.6471
Al (sol)	1.818	2.1823	4.7474	5.5682	10.711	3.7996	6.6337	4.9214	24.34

Wet Deposition Samples, Soluble (ICP-MS)

Truro Wet Deposition Samples (ng/l)

Sample ID	905	909
Start Date	8/21/93	9/1/93
Time (hrs)	264	384
Soluble Fraction Volume (l)	0.05533	3.60798
Cr (sol)	5.0403	4.9182
Mn (sol)	1.1895	0.8556
Co (sol)	0.6203	0.605
Ni (sol)	1.4126	0.8006
Cu (sol)	1.7159	1.0185
Zn (sol)	6.6376	2.6523
Cd (sol)	0.4436	0.3323
Pb (sol)	1.4768	0.9502
Fe (sol)	13.483	7.3675
Al (sol)	13.8038	4.8027

Dry Deposition Samples, Desorbed Fraction Only (ICP-MS)

Nahant Deposition Samples (ng/ml)

Date Time (hrs)	Process Blank	7/7/92 360	7/7/92 360	7/22/92 360	7/22/92 360	8/6/92 311.833	8/6/92 311.833	8/19/92 336.42	9/2/92 335.25	9/16/92 335.667
Dry Deposition Sample ID Volume (l)		600 1	601 missing	604 missing	605 missing	606 missing	607 missing	609 1	611 1	614 missing
Cr (dry)	0	0.1183						0.1945	0	
Mn (dry)	0	0						0.3844	0	
Co (dry)	0.6015	0						0.454	0	
Ni (dry)	0	0.1313						0.0339	0.1364	
Cu (dry)	0.1381	0.4333						1.3188	0.0636	
Zn (dry)	0	0.868						2.4452	0.4321	
Cd (dry)	0.0513	0						0.0655	0	
Pb (dry)	0	0.3023						1.4273	0	
Fe (dry)	3.7241	26.05						28.0964	5.3053	
Al (dry)	2.4234	21.6598						23.6273	2.9132	

Dry Deposition Samples, Desorbed Fraction Only (ICP-MS)

Nahant Deposition Samples (ng/ml)

Date	9/30/92	10/14/92	10/27/92	11/10/92	11/23/92	12/7/92	12/21/92	1/6/93	1/20/93	2/2/93
Time (hrs)	335.5	311.75	329.08	317.42	334.75	334.5	381.5	333.58	311.5	307.17
Dry Deposition Sample ID	618	623	627	631	635	639	643	647	651	655
Volume (l)	1	1	1	1	1	Destroye	1	1	1	1
Cr (dry)	0.0917	0.0322	0.1626	0	0.046		0.1293	0.1867	2.0956	2.0468
Mn (dry)	0.7904	0.0178	0.0191	0	0.088		0.5583	0.7201	0.7068	1.3382
Co (dry)	0.211	0.3725	0.0362	0	0.017		0.1984	0.2176	0.6107	0.646
Ni (dry)	0.3309	0	0.1343	0.1909	0		0.4536	0.3833	0.7555	0.9634
Cu (dry)	0.7001	0.1117	0.18	0.0938	0.7114		0.3794	0.4702	1.1877	1.7408
Zn (dry)	1.6169	0.8136	0.5634	0.6361	1.9126		1.2505	1.4815	1.6988	2.5023
Cd (dry)	0.2511	0.0148	0.1271	0	0.0442		0.2857	0.2622	0.3212	0.4899
Pb (dry)	0.8988	0.3392	0.3169	0.206	1.322		0.8456	1.0503	0.586	4.2453
Fe (dry)	18.1574	9.8853	16.4126	23.7612			26.8537	40.7981	19.5942	94.8716
Al (dry)	14.8407	5.3833	4.7581	7.7124			15.674	20.9551	14.943	57.4176

Dry Deposition Samples, Desorbed Fraction Only (ICP-MS)

Nahant Deposition Samples (ng/ml)

Date	2/15/93	3/2/93	3/16/93	3/30/93	4/14/93	4/27/93	5/13/93	5/26/93	6/9/93	6/23/93
Time (hrs)	360.58	336.5	337	359.5	313.92	382.17	311.58	337.75	334.25	339.75
Dry Deposition										
Sample ID	659	663	667	671	675	679	683	687	691	695
Volume (l)	1	1	1	1	1	1	1	1	1	1
Cr (dry)	0.1235	0	0.2977	4.8166	0	0.2826	2.0753	4.5725	0.5273	0.9771
Mn (dry)	0.498	0	0.0395	0.5314	0	0.6878	5.6389	1.776	0.4861	2.6816
Co (dry)	0.2069	0	0.0421	0.6015	0	0.0533	0.6993	0.6294	0.0534	0.6028
Ni (dry)	0.2017	0.2034	0.2195	0.8418	0.2376	0.267	0.9752	1.0066	0.5255	1.0458
Cu (dry)	0.4685	0.214	0.1811	0.8682	0.3916	0.8754	4.4832	1.5399	1.0738	2.8462
Zn (dry)	0.6595	0.6739	0.6377	0.9917	0.7951	1.166	2.9308	1.98	1.2849	4.7762
Cd (dry)	0.2539	0	0	0.308	0	0	0.3675	0.3301	0	0.2705
Pb (dry)	0.5857	0.1136	0.112	0.4892	0	1.6838	2.5677	1.6555	1.9326	1.6092
Fe (dry)	16.9845	30.0374	19.5326	16.1448	17.154	33.232	57.5847	67.5168	42.192	20.3637
Al (dry)	13.9228	21.039	7.5425	6.6376	8.7423	29.3013	44.6165	45.5119	31.0315	23.3904

Dry Deposition Samples, Desorbed Fraction Only (ICP-MS)

Nahant	Deposition Samples (ng/ml)				
Date	7/7/93	7/22/93	8/4/93	8/18/93	9/1/93
Time (hrs)	354.08	314.75	334.33	335.58	313.17
Dry Deposition Sample ID	699	701	703	707	711
Volume (l)	1	1	1	1	missing
Cr (dry)	0.2518	1.9451	4.4505	0.1116	
Mn (dry)	0.4492	4.2102	0.5338	4.1921	
Co (dry)	0.052	0.6709	0.6006	0.2862	
Ni (dry)	0.2312	1.3126	0.628	0.5949	
Cu (dry)	0.6115	4.8491	0.803	8.6453	
Zn (dry)	1.0211	5.6386	0.7587	2.8278	
Cd (dry)	0	0.3554	0.3312	0.2451	
Pb (dry)	1.1446	1.9559	0.4549	2.2819	
Fe (dry)	25.4926	32.1603	11.9717	38.4939	
Al (dry)	28.5249	33.8559	5.3135	31.1055	

Dry Deposition Samples, Desorbed Fraction Only (ICP-MS)

Truro Deposition Samples (ng/ml)

Date Time (hrs)	Process Blank	7/17/92 622.25	7/17/92 622.25	8/12/92 480	9/1/92 336	9/15/92 336	9/29/92 334.5	10/13/92 336	10/27/92 336	11/10/92 336
Dry Deposition Sample ID Volume (l)		602 1	603 1	608 1	610 missing	612 missing	616 1	620 1	625 1	629 1
Cr (dry)	0	0.187	5.1013	0.1266			4.5969	0.0493	0.1531	0.1394
Mn (dry)	0	0	0.4947	0.9957			2.114	0.4339	0	0.2979
Co (dry)	0.6015	0	0.5875	0.2127			0.629	0.195	0.0348	0.1889
Ni (dry)	0	0.2805	0.6966	0.5408			0.9889	0.1236	0.1027	0.0967
Cu (dry)	0.1381	0.3072	0.8038	0.4889			1.8139	0.3605	0.1197	0.1925
Zn (dry)	0	0.5656	0.9516	2.9792			3.5576	0.8588	0.3086	0.5908
Cd (dry)	0.0513	0	0.3179	0.2511			0.6035	0.2278	0	0.2259
Pb (dry)	0	0	0.5331	0.993			1.0642	0.4866	0.102	3.6748
Fe (dry)	3.7241	14.4283	11.4035	27.2789			10.661	10.3305	2.1965	4.2194
Al (dry)	2.4234	5.506	4.1044	21.6843			16.4688	11.4842	4.4145	4.1471

Dry Deposition Samples, Desorbed Fraction Only (ICP-MS)

Truro Deposition Samples (ng/ml)

Date	11/24/92	12/8/92	12/24/92	1/7/93	1/21/93	2/4/93	2/20/93	3/3/93	3/20/93	4/8/93
Time (hrs)	331	384	336	336	336	384	264	408	456	505
Dry Deposition		malfunct.								
Sample ID	634	637	641	645	649	653	657	661	665	669
Volume (l)	1	1	1	1	1	1	missing	1	1	1
Cr (dry)	0.1266	0.0944	0.3771	0	4.7474	0.9527		0	0	0
Mn (dry)	0.8301	0.6084	0.8571	0	1.032	0.6849		0	0	0
Co (dry)	0.235	0.2117	0.2312	0	0.6277	0.5823		0	0	0
Ni (dry)	0.3853	1.3945	0.7345	0.2155	0.7359	0.6378		0.2994	0.1003	0.6394
Cu (dry)	0.7194	0.3483	1.1639	0	0.9687	2.2201		0.3484	0.1963	0.4591
Zn (dry)	1.4854	1.6091	1.5409	1.0644	1.1926	1.0105		2.5634	0.7792	2.3012
Cd (dry)	0.3215	0.4059	0.2409	0	0.3345	0.2242		0.0043	0	0
Pb (dry)	2.1285	0.5417	2.9856	0.0875	0.7731	0.5569		0	0.1144	0.0195
Fe (dry)	49.218	22.3128	72.1202	9.2679	46.3366	28.8067		12.0638	15.213	7.5801
Al (dry)	32.1527	18.8694	57.9096	7.2989	25.8846	17.1302		11.2176	5.8806	13.6625

Dry Deposition Samples, Desorbed Fraction Only (ICP-MS)

Truro Deposition Samples (ng/ml)

Date	4/29/93	5/25/93	6/9/93	7/1/93	7/15/93	7/28/93	8/8/93	8/21/93	9/1/93
Time (hrs)	622.75	359	528.5	336	312	265	310.75	264	384
Dry Deposition Sample ID	673	677	681	685	689	693	697	705	709
Volume (l)	1	1	1	1	1	1	1	1	1
Cr (dry)	0	0.8917	0.0727	4.9874	3.8974	1.1154	1.819	1.8556	2.0346
Mn (dry)	1.8642	2.7626	1.6342	0.6609	1.1473	0.4879	0.5898	0.634	0.5446
Co (dry)	0	0.6644	0.2072	0.6054	0.6094	0.5858	0.5976	0.6085	0.5949
Ni (dry)	0.3749	8.8352	0.6235	0.7574	1.0654	0.6378	0.6103	0.7928	0.5574
Cu (dry)	2.5538	1.0769	0.4481	0.9644	1.5682	0.6707	0.8605	1.3106	1.2135
Zn (dry)	4.5573	5.0413	1.6703	1.198	1.6774	0.9435	0.8712	1.281	0.9301
Cd (dry)	0	0.2606	0.2426	0.3113	0.3168	0.2297	0.3058	0.3058	0.2716
Pb (dry)	0.2151	0.8641	0.6909	0.7174	0.6446	0.4901	0.4216	0.5494	0.4783
Fe (dry)	18.6114	23.2911	16.1549	14.7092	11.0054	6.6274	8.6571	12.1905	11.0252
Al (dry)	21.8017	19.247	14.0244	9.0741	6.5396	5.1673	4.0315	6.5748	6.1551

Wet Deposition Samples, Desorbed Fraction Only (ICP-MS)

Nahant Deposition Samples (ng/ml)

Date	Process	7/7/92	7/7/92	7/22/92	7/22/92	8/6/92	8/6/92	8/19/92	9/2/92	9/16/92
Time (hrs)	Blank	360	360	360	360	311.833	311.833	336.42	335.25	335.667
Wet Deposition Sample ID		800	801	804	805	806	807	809	811	814
Volume (l)		1	missing	1	1	missing	1	1	1	missing
Cr (wet)	0	0		0	0		0.0634	0.0758	0	
Mn (wet)	0	2.3291		0	0		0.3422	0.425	0	
Co (wet)	0.6015	0		0	0		0.1954	0.1889	0	
Ni (wet)	0	0.7556		0.0519	0.5109		0.1103	0.2138	0.0686	
Cu (wet)	0.1381	1.0082		0.0939	0.1373		0.1867	0.2779	0.0964	
Zn (wet)	0	4.9925		0.4285	0.681		0.5218	1.1702	0.5206	
Cd (wet)	0.0513	0.1567		0	0.0013		0.2279	0.2328	0	
Pb (wet)	0	1.6667		0	0		0.3756	0.4028	0	
Fe (wet)	3.7241	1.6581		4.6545	3.219		6.9915	7.28	3.0186	
Al (wet)	2.4234	24.11		2.4432	1.1734		2.4387	2.7178	2.4052	

Wet Deposition Samples, Desorbed Fraction Only (ICP-MS)

Nahant Deposition Samples (ng/ml)

Date	9/30/92	10/14/92	10/27/92	11/10/92	11/23/92	12/7/92	12/21/92	1/6/93	1/20/93	2/2/93
Time (hrs)	335.5	311.75	329.08	317.42	334.75	334.5	381.5	333.58	311.5	307.17
Wet Deposition Sample ID	818	823	827	831	835	839	843	847	851	855
Volume (l)	1	1	missing	1	1	missing	1	1	1	1
Cr (wet)	0	0.0155		0	0.1458		1.9329	0.1589	5.3494	0
Mn (wet)	0	0.1766		0	0		0.5166	0.4546	0.4731	0
Co (wet)	0	0.1403		0	0.0375		0.5914	0.2265	0.6041	0
Ni (wet)	0.0579	0		0.1301	0.0595		0.6221	0.368	0.677	0.1909
Cu (wet)	0.0709	0.1502		0.1151	0.0219		0.8184	0.584	0.7695	0.1379
Zn (wet)	0.3691	0.9357		0.4571	0.8044		0.8096	0.9885	0.8525	0.8089
Cd (wet)	0	0.0242		0	0		0.3223	0.2817	0.3091	0
Pb (wet)	0	0.2871		0	0		0.4129	0.9029	0.4457	0
Fe (wet)	4.7934			1.3309	0		8.2004	14.1216	10.9758	10.3437
Al (wet)	3.2216			3.1027	0		5.6434	25.5434	4.5207	8.5303

Wet Deposition Samples, Desorbed Fraction Only (ICP-MS)

Nahant Deposition Samples (ng/ml)

Date	2/15/93	3/2/93	3/16/93	3/30/93	4/14/93	4/27/93	5/13/93	5/26/93	6/9/93	6/23/93
Time (hrs)	360.58	336.5	337	359.5	313.92	382.17	311.58	337.75	334.25	339.75
Wet Deposition										
Sample ID	859	863	867	871	875	879	883	887	891	895
Volume (l)	1	1	1	1	1	1	1	1	1	missing
Cr (wet)	1.0341	0.0554	2.0183	1.0666	2.2258	4.5929	1.8109	4.906	0.6436	
Mn (wet)	0.4538	0.0634	0.4926	0.5031	0.5759	0.834	0.6019	0.5783	0.584	
Co (wet)	0.5858	0.3544	0.6089	0.5897	0.6107	0.5989	0.6107	0.6045	0.6255	
Ni (wet)	0.5397	0	0.7771	0.5201	0.8379	1.0183	0.6437	0.8673	0.6476	
Cu (wet)	0.7068	0.238	0.8433	0.6561	0.8811	1.1328	0.815	1.0864	0.7325	
Zn (wet)	0.8069	1.079	0.9221	0.7828	0.9757	1.656	0.8578	1.4711	1.139	
Cd (wet)	0.222	0.0248	0.3565	0.2242	0.2992	0.3631	0.3113	0.3146	0.2485	
Pb (wet)	0.4281	0.1948	0.4892	0.4854	0.5063	0.9082	0.5162	0.603	0.4901	
Fe (wet)	8.8125	14.3495	10.898	13.5453	15.3954	35.1165	18.0203	11.963	12.2757	
Al (wet)	4.6962	7.8249	4.4262	8.9897	9.2225	25.4615	9.7367	6.5354	5.7981	

Wet Deposition Samples, Desorbed Fraction Only (ICP-MS)

Nahant Deposition Samples (ng/ml)

Date	7/7/93	7/22/93	8/4/93	8/18/93	9/1/93
Time (hrs)	354.08	314.75	334.33	335.58	313.17
Wet Deposition					
Sample ID	899	901	903	907	911
Volume (l)	1	1	1	1	1
Cr (wet)	0.0312	4.7637	0.1458	0.1671	0.1846
Mn (wet)	0.3143	0.5054	0	0	0
Co (wet)	0.2008	0.5963	0.0334	0.032	0.0346
Ni (wet)	0.0549	0.7496	0.0625	0.0814	0.0735
Cu (wet)	0.0902	0.8614	0.0621	0.0796	0.0492
Zn (wet)	0.4775	1.5756	0.1931	0.3697	0.2984
Cd (wet)	0.2246	0.297	0	0	0
Pb (wet)	0.3134	0.5294	0	0	0
Fe (wet)	6.8305	11.1681	4.2587	2.5316	3.3659
Al (wet)	2.7221	7.315	3.104	3.6005	2.6067

Wet Deposition Samples, Desorbed Fraction Only (ICP-MS)

Truro Deposition Samples (ng/ml)

Date Time (hrs)	Process Blank	7/17/92 622.25	7/17/92 622.25	8/12/92 480	9/1/92 336	9/15/92 336	9/29/92 334.5	10/13/92 336	10/27/92 336	11/10/92 336
Wet Deposition Sample ID Volume (l)		802 1	803 missing	808 1	810 missing	812 1	816 1	820 1	825 1	829 1
Cr (wet)	0	0.0371		0		0.1288	0.0257	0	0.0997	0.1306
Mn (wet)	0	0		0		0.3291	0	0	0.2676	11.2329
Co (wet)	0.6015	0		0		0.1927	0.2282	0	0.1915	0.1945
Ni (wet)	0	0.2304		0.0216		0.2415	0	0.0312	0.2279	0.3427
Cu (wet)	0.1381	0.2414		0.0238		0.1775	0.1162	0.0318	0.0755	0.2482
Zn (wet)	0	0.6296		0.6006		1.8906	1.0001	0.4442	0.3515	0.8008
Cd (wet)	0.0513	0		0		0.2399	0.0153	0	0.245	0.2346
Pb (wet)	0	0		0.0321		0.3753	0.1764	0	0.353	0.6374
Fe (wet)	3.7241	7.1803		3.5401		4.0438	7.5266	0	1.9301	7.1808
Al (wet)	2.4234	3.9035		2.8626		2.7382	0.9197	1.6003	1.3156	7.262

Wet Deposition Samples, Desorbed Fraction Only (ICP-MS)

Truro Deposition Samples (ng/ml)

Date	11/24/92	12/8/92	12/24/92	1/7/93	1/21/93	2/4/93	2/20/93	3/3/93	3/20/93	4/8/93
Time (hrs)	331	384	336	336	336	384	264	408	456	505
Wet Deposition Sample ID	834	837	841	845	849	853	857	861	865	869
Volume (l)	1	1	1	1	1	1	1	1	1	1
Cr (wet)	0.164	0.0291	0.1545	0	0	0.0789	0.2228	0	4.5034	0
Mn (wet)	0	0.1077	0.009	0	0	0.3092	0.1037	0	0.5375	0
Co (wet)	0.0318	0.5965	0.0371	0	0	0.1966	0.0743	0	0.6115	0
Ni (wet)	0.2346	0	0.1062	0.3101	0.1531	0.1081	0.1572	0.2983	0.6535	0.0683
Cu (wet)	0.1089	0.2089	0.068	0	0.3598	0.1676	0.6426	0.261	0.9816	0.0622
Zn (wet)	0.7887	1.4052	0.3021	0.5066	0.9783	0.3829	0.7932	1.7316	0.9382	0.5167
Cd (wet)	0	0.1848	0	0	0	0.2212	0	0	0.3268	0
Pb (wet)	0.0294	0.2276	0.0466	0	1.7349	0.3166	0.0269	0	0.5705	0.1232
Fe (wet)	0	14.1529	12.8089	3.651	23.5538	8.5794	6.5226	9.1365	16.5938	14.9832
Al (wet)	0.4101	14.433	4.3275	4.3723	14.1752	4.3755	5.9701	6.8978	9.5629	12.2597

Wet Deposition Samples, Desorbed Fraction Only (ICP-MS)

Truro Deposition Samples (ng/ml)

Date	4/29/93	5/25/93	6/9/93	7/1/93	7/15/93	7/28/93	8/8/93	8/21/93	9/1/93
Time (hrs)	622.75	359	528.5	336	312	265	310.75	264	384
Wet Deposition Sample ID	873	877	881	885	889	893	897	905	907
Volume (l)	1	1	1	missing	1	1	1	1	1
Cr (wet)	0	0	5.0809		2.0387	0.0268	0	0.1685	1.0991
Mn (wet)	0	0	0.471		0.5874	0.2957	0	0	0.4225
Co (wet)	0	0	0.5958		0.6006	0.1914	0	0.332	0.5753
Ni (wet)	0.1032	0.0708	0.6103		0.6574	0.1296	0.1877	0.0817	0.5024
Cu (wet)	0.3171	0	0.7583		0.8837	0.0772	0.0916	0.083	0.5376
Zn (wet)	0.5382	0.4807	0.6864		0.8551	0.605	1.3332	0.528	0.7185
Cd (wet)	0	0	0.3146		0.308	0.2334	0	0	0.232
Pb (wet)	0.2072	0.0611	0.4708		0.6014	0.3352	0	0.0706	0.415
Fe (wet)	31.8	8.5586	10.4338		19.9477	3.7174	1.0927	0.736	2.7045
Al (wet)	33.8435	5.0374	6.2314		9.222	2.5966	0.7386	2.6803	2.3339

Appendix A-10

GC-MS Analysis Results (PAHs and PCBs)

Appendix Order:

Analytical Recover of Standard Materials
Detailed Analytical Results

GC-MS Analytical percent recovery of standard materials.

INVEST#:	SPIKED B	SPIKED B	SPIKED B	SPIKED B	SPIKED B	SPIKED B	SPIKED B	SPIKED B	SPIKED B	SPIKED B	SPIKED B			
ID:	-901	-901	-901	-901	-901	-901	-901	-901	-901	-901	-901			
LABSAMNO:	Q4386	Q4386	Q4386	Q4386	Q4386	Q4386	Q4386	Q4386	Q4386	Q4386	Q4386			
MATRIX:	QCWATE	QCWATE	QCWATE	QCWATE	QCWATE	QCWATE	QCWATE	QCWATE	QCWATE	QCWATE	QCWATE			
UNIT:	%	%	%	%	%	%	%	%	%	%	%			
PNA Analyte	% Recov	% Recov	% Recov	% Recov	% Recov	% Recov	% Recov	% Recov	% Recov	% Recov	% Recov	AVG.(%)	Min.(%)	Max.(%)
NAPHTHALENE	108.9	99.7	97.7	124.7	122.0	107.3	103.6	77.1	70.7	99.6	81.2	99.32	70.74	124.71
C1-NAPHTHALENES														
C2-NAPHTHALENES														
C3-NAPHTHALENES														
C4-NAPHTHALENES														
BIPHENYL	83.2	126.5	109.9	104.2	95.5	127.0	106.0	120.4	82.3	84.0	89.4	102.58	82.31	126.99
ACENAPHTHYLENE	73.3	99.9	83.2	90.3	86.3	108.0	80.6	100.9	78.9	85.2	75.4	87.45	73.31	107.99
ACENAPHTHENE	76.1	104.9	85.4	95.3	88.0	114.4	85.0	99.3	86.6	87.4	84.1	91.50	76.07	114.43
FLUORENE	80.8	129.8	98.1	96.7	87.0	112.3	96.3	105.0	108.1	92.2	99.3	100.51	80.81	129.84
C1-FLUORENES														
C2-FLUORENES														
C3-FLUORENES														
PHENANTHRENE	102.0	89.2	78.4	91.9	87.7	112.1	77.3	84.3	85.2	96.1	102.4	91.52	77.34	112.13
ANTHRACENE	76.8	70.0	109.0	70.6	71.7	83.2	77.9	84.1	84.0	84.4	77.2	80.82	70.01	109.01
C1-PHEN_ANTHR														
C2-PHEN_ANTHR														
C3-PHEN_ANTHR														
C4-PHEN_ANTHR														
DIBENZOTHIO	111.4	72.5	71.3	78.1	71.8	76.4	79.7	78.5	73.0	70.2	73.4	77.84	70.19	111.36
C1-DIBEN														
C2-DIBEN														
C3-DIBEN														
FLUORANTHENE	119.9	90.4	93.6	91.7	85.3	117.5	93.9	77.9	98.1	101.7	108.1	98.00	77.89	119.91
PYRENE	102.5	70.1	75.4	91.9	82.2	114.1	91.1	80.4	97.3	87.9	98.5	90.14	70.09	114.14
C1-FLUORAN_PYR														
BENaANTHRACENE	127.8	105.0	91.2	91.4	85.9	97.1	96.5	91.0	104.0	107.4	97.7	99.55	85.86	127.82
CHRYSENE	114.0	102.3	112.4	111.8	111.8	108.5	102.3	106.1	96.9	93.6	95.2	104.99	93.59	113.95
C1-CHRYSENES														
C2-CHRYSENES														
C3-CHRYSENES														
C4-CHRYSENES														
BENbFLUORAN	113.0	109.4	110.9	102.7	97.6	109.7	95.4	86.1	96.9	73.8	75.5	97.36	73.83	113.03
BENkFLUORAN	114.8	108.9	117.8	109.1	103.9	109.8	95.4	86.4	102.8	78.8	75.5	100.27	75.49	117.78
BENePYRENE	98.9	107.2	108.3	92.8	83.0	99.8	89.6	76.9	91.5	95.2	76.5	92.70	76.50	108.31
BENaPYRENE	126.8	96.3	99.1	99.6	86.8	105.1	72.7	71.3	124.3	77.4	81.7	94.66	71.32	126.83
PERYLENE	114.6	125.4	103.4	101.9	98.5	126.5	111.3	82.8	95.8	83.1	88.9	102.92	82.84	126.54
I123cdPYRENE	120.7	89.8	87.2	104.5	95.5	103.1	85.6	78.5	86.2	73.6	79.7	91.30	73.59	120.67
DBahANTHRA	116.3	94.4	99.0	114.8	106.4	73.9	103.6	77.2	103.3	78.6	72.6	94.56	72.61	116.30
BghiPERYLENE	112.9	99.3	103.6	121.1	103.4	116.5	104.7	84.2	91.5	81.0	80.5	99.87	80.53	121.10

GC-MS Analytical percent recovery of standard materials.

INVEST#:	SPIKED BLANK													
ID:	-901	-901	-901	-901	-901	-901	-901	-901	-901	-901	-901			
LABSAMNO:	ERR													
UNIT:	%													
Analyte (Cont)	% Recov											AVG.(%)	Min.(%)	Max.(%)
2-METHYLNAPH	113.3	122.1	93.6	122.2	125.9	128.4	112.9	105.6	110.6	117.1	124.3	116.00	93.59	128.36
1-METHYLNAPH	102.2	99.1	78.8	101.3	98.8	124.9	115.8	71.9	100.8	109.0	99.2	100.16	71.93	124.93
2,6-DIMETHNAPH	71.4	124.0	87.6	92.7	91.5	112.0	83.1	102.5	87.4	87.7	79.7	92.68	71.36	123.98
2,3,5-TRIMETHNAPH	94.3	116.6	88.7	107.7	96.1	122.2	105.5	103.6	109.1	86.6	98.2	102.59	86.59	122.18
1-METHYLPHEN	84.2	71.5	76.3	73.9	74.9	89.7	72.3	78.3	77.7	74.7	102.2	79.62	71.52	102.17
Surrogate Recoveries														
NAPHD8:	51.09	81.02	76.98	84.44	86.52	54.85	100.25	73.34	41.74	85.28	81.59	74.28	41.74	100.25
ACEND10:	67.90	40.73	43.98	80.47	181.20	71.17	103.67	61.69	39.18	93.79	89.44	79.38	39.18	181.20
PHEND10:	74.35	92.55	84.46	83.71	173.82	93.80	118.75	87.48	40.76	94.40	100.13	94.93	40.76	173.82
CHRYD12:	95.10	69.82	57.11	62.80	134.18	86.05	109.25	80.38	34.64	80.70	128.25	85.30	34.64	134.18
PERYD12:	45.83	57.42	59.61	73.37	155.86	54.32	10.11	35.22	71.72	5.00	79.50	58.91	5.00	155.86

INVEST#:														PROC BLANK		SPIKED B
ID:	613	617	619	621	813	817	819	821	624	628	815	826	828	-900		-901
LABSAMNO:	C10068	C10069	C10070	C10071	C10072	C10073	C10074	C10075	C10076	C10077	C10078	C10079	C10080	Q4385		Q4386
MATRIX:	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	QCBLANK		QCWATE
UNIT:	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L		%
PNA Analyte	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	DB QUAL	% Recov
NAPHTHALENE	76.16	27.81	45.85	20.67	216.06	362.36	44.02	138.97	38.62	169.20	20.52	69.47	102.08	3.92		108.9
C1-NAPHTHALENES	35.26	49.20	59.36	38.61	55.47	101.43	47.71	61.44	139.36	81.11	22.38	72.57	80.29	4.57		
C2-NAPHTHALENES	20.23	0.00	59.83	0.08	0.00	39.06	40.95	43.64	91.36	46.38	27.67	44.12	0.00	0.00		
C3-NAPHTHALENES	0.00	0.00	61.41	0.00	0.00	0.00	0.00	51.73	91.57	65.75	0.00	0.00	0.00	0.00		
C4-NAPHTHALENES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	70.80	0.00	0.00	0.00	0.00	0.00		
BIPHENYL	6.00	8.47	7.48	5.44	6.82	10.33	13.39	14.14	9.50	26.26	1.98	9.26	18.56	2.78		83.2
ACENAPHTHYLENE	6.74	34.59	6.23	6.61	0.52	0.43	3.29	0.87	5.00	10.10	2.15	0.74	8.56	3.05		73.3
ACENAPHTHENE	5.30	9.17	4.56	7.68	2.30	2.08	8.60	3.55	7.89	11.64	3.09	4.50	14.65	3.08		76.1
FLUORENE	2.57	16.00	8.49	9.79	3.23	2.25	10.47	6.42	13.01	14.86	4.43	7.96	15.98	4.32		80.8
C1-FLUORENES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
C2-FLUORENES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
C3-FLUORENES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
PHENANTHRENE	3.01	66.87	54.00	10.59	2.34	3.10	19.45	9.70	81.70	67.33	10.45	12.31	49.50	2.94		102.0
ANTHRACENE	0.80	5.98	14.87	1.05	0.65	0.33	2.00	1.06	12.84	6.40	0.82	1.57	4.50	0.54		76.8
C1-PHEN_ANTHR	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	47.54	28.36	0.00	0.00	0.00	0.00		
C2-PHEN_ANTHR	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	32.31	28.90	0.00	0.00	0.00	0.00		
C3-PHEN_ANTHR	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	48.02	29.70	0.00	0.00	0.00	0.00		
C4-PHEN_ANTHR	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	15.22	0.00	0.00	0.00	0.00		
DIBENZOTHIO	1.23	5.44	13.71	3.57	0.97	1.03	3.44	4.39	10.35	6.91	2.45	3.87	13.95	1.25		111.4
C1-DIBEN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	12.89	8.91	0.00	0.00	0.00	0.00		
C2-DIBEN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	20.68	16.84	0.00	0.00	0.00	0.00		
C3-DIBEN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	18.04	0.00	0.00	0.00	0.00		
FLUORANTHENE	1.92	29.35	68.05	12.60	1.36	1.32	16.88	15.57	100.63	75.13	13.31	13.07	25.37	0.92		119.9
PYRENE	1.96	26.12	45.54	8.00	0.94	1.30	10.63	9.22	67.10	52.18	8.94	9.30	16.43	1.61		102.5
C1-FLUORAN_PYR	0.00	0.00	30.56	0.00	0.00	0.00	0.00	0.00	25.88	24.26	0.00	0.00	0.00	0.00		
BENaANTHRACENE	0.99	9.97	21.19	4.86	0.47	0.70	1.74	2.40	39.71	24.39	3.20	3.71	4.62	0.81		127.8
CHRYSENE	1.37	15.92	34.62	6.50	0.73	0.44	4.43	11.57	43.24	23.87	3.86	5.60	6.88	0.99		114.0
C1-CHRYSENES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	20.19	13.07	0.00	0.00	0.00	0.00		
C2-CHRYSENES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	13.22	9.99	0.00	0.00	0.00	0.00		
C3-CHRYSENES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
C4-CHRYSENES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
BENbFLUORAN	0.46	29.44	66.22	12.49	0.30	1.46	5.21	15.34	76.92	44.46	7.56	9.32	10.62	0.73		113.0
BENkFLUORAN	0.54	29.59	65.02	11.10	0.39	1.46	5.23	15.06	77.29	43.55	7.55	8.75	10.04	0.68		114.8
BENePYRENE	0.76	10.83	23.80	5.13	0.48	0.74	2.62	7.34	28.74	17.43	2.95	4.09	4.47	1.83		98.9
BENaPYRENE	0.92	14.86	28.29	5.27	0.25	0.67	1.41	2.01	40.46	24.53	3.26	24.59	4.06	1.08		126.8
PERYLENE	1.07	10.45	11.03	4.86	0.41	0.20	2.17	2.73	75.13	8.61	1.38	1.46	2.37	0.55		114.6
I123cdPYRENE	0.94	14.06	25.51	5.35	0.17	0.74	2.26	3.74	26.48	14.67	2.42	3.05	4.47	0.29		120.7
DBahANTHRA	0.29	2.87	4.49	1.03	0.29	0.41	0.55	0.43	6.57	3.52	0.74	0.57	0.64	1.00		116.3
BghiPERYLENE	0.56	11.77	23.86	5.40	0.27	0.58	2.04	4.20	24.94	15.15	2.42	2.80	4.76	0.43		112.9
TOTAL AROMATICS	169.08	428.76	783.97	186.68	294.42	532.42	248.49	425.52	1399.94	1046.72	153.53	312.68	402.80	37.37		

Sample ID Key: Numbers 600 - 799 are dry deposition, 800 - 999 are wet dep. "D"=dry dep, "W"=wet dep, "O"=PAH sample, "N"=Nahant, "T"=Truro. See Sample Log (Appendix A-1) for more details.

INVEST#:	LANK	LAB REF OIL	
ID:		-700	
LABSAMNO:		W27588	
MATRIX:	R	WATER	
UNIT:		ng/ampule	
PNA Analyte	DB QUAL	Conc	DB QUAL
NAPHTHALENE		585.87	
C1-NAPHTHALENES	NA	1628.90	
C2-NAPHTHALENES	NA	1401.22	
C3-NAPHTHALENES	NA	1169.21	
C4-NAPHTHALENES	NA	679.74	
BIPHENYL		140.40	
ACENAPHTHYLENE		0.82	
ACENAPHTHENE		13.46	
FLUORENE		68.45	
C1-FLUORENES	NA	172.36	
C2-FLUORENES	NA	267.43	
C3-FLUORENES	NA	326.49	
PHENANTHRENE		225.59	
ANTHRACENE		4.02	
C1-PHEN_ANTHR	NA	520.03	
C2-PHEN_ANTHR	NA	625.38	
C3-PHEN_ANTHR	NA	484.87	
C4-PHEN_ANTHR	NA	242.05	
DIBENZOTHIO		190.09	
C1-DIBEN	NA	341.80	
C2-DIBEN	NA	469.53	
C3-DIBEN	NA	465.27	
FLUORANTHENE		10.16	
PYRENE		13.96	
C1-FLUORAN_PYR	NA	80.82	
BENaANTHRACENE		6.63	
CHRYSENE		49.64	
C1-CHRYSENES	NA	89.20	
C2-CHRYSENES	NA	98.51	
C3-CHRYSENES	NA	22.47	
C4-CHRYSENES	NA	12.22	
BENbFLUORAN		5.90	
BENkFLUORAN		5.93	
BENePYRENE		10.96	
BENaPYRENE		2.13	
PERYLENE		3.01	
I123cdPYRENE		1.16	
DBahANTHRA		2.00	
BghiPERYLENE		2.94	
TOTAL AROMATICS	NA	10440.62	

Sample ID Key: Numbers 600 - 799 are dry deposition, 800 - 999 are wet dep. "D"=dry dep, "W"=wet dep, "O"=PAH sample, "N"=Nahant, "T"=Truro. See Sample Log (Appendix A-1) for more details.

INVEST#:																
ID:	652DON	852WON	846WOT	646DOT	648DON	848WON	644WON	844WON	836WOT	840WON	638DOT	633DOT	615DON	824WON	626DOT	200BOL
LABSAMNO:	C10648	C10649	C10650	C10651	C10652	C10653	C10654	C10655	C10656	C10657	C10658	C10659	C10660	C10661	C10662	C10663
MATRIX:	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER
VOL (LITERS):	4.00	0.75	4.00	0.71	1.44	0.82	0.98	2.49	6.82	6.34	1.28	1.63	1.45	0.88	1.17	2.28
UNIT:	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L
PNA Analyte	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc
NAPHTHALENE	6.19	60.83	7.75	172.81	57.92	46.07	71.92	158.50	29.50	22.96	52.24	45.63	39.09	48.36	55.77	34.45
C1-NAPHTHALENES	4.48	35.86	5.49	154.19	34.85	32.17	53.00	101.01	16.64	19.78	36.95	37.34	50.32	176.40	52.51	33.38
C2-NAPHTHALENES	2.44	19.04	3.88	75.03	20.98	23.10	32.00	43.55	8.82	5.99	28.38	23.61	42.78	113.82	0.00	0.00
C3-NAPHTHALENES	7.91	81.02	7.93	62.39	34.69	38.92	82.05	142.39	10.16	7.89	47.44	30.76	73.62	89.72	0.00	0.00
C4-NAPHTHALENES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.83	5.82	0.00	0.00	70.91	62.74	0.00	0.00
BIPHENYL	1.55	10.08	2.22	32.68	7.89	8.42	13.66	18.55	2.87	4.73	11.19	21.00	15.79	9.88	13.33	17.45
ACENAPHTHYLENE	1.77	15.19	0.35	7.47	7.72	6.11	28.62	18.16	1.30	2.98	54.71	21.37	19.20	7.84	4.10	7.96
ACENAPHTHENE	0.99	12.81	0.63	8.59	12.38	7.85	26.55	12.64	0.79	2.34	5.35	7.04	6.45	9.48	9.09	11.05
FLUORENE	2.17	17.40	2.39	11.63	17.36	9.17	43.30	27.04	2.90	7.37	11.77	19.71	12.65	19.07	20.51	9.96
C1-FLUORENES	0.00	22.78	0.00	27.77	8.85	0.00	0.00	0.00	0.00	5.96	20.72	0.00	0.00	29.47	0.00	0.00
C2-FLUORENES	0.00	114.71	0.00	57.67	54.88	0.00	0.00	0.00	0.00	14.44	69.95	0.00	0.00	0.00	0.00	0.00
C3-FLUORENES	0.00	190.17	0.00	128.97	73.25	0.00	0.00	0.00	0.00	29.00	63.42	0.00	0.00	0.00	0.00	0.00
PHENANTHRENE	21.62	162.86	9.52	178.70	156.23	49.47	458.05	78.30	5.96	42.19	43.01	83.74	79.98	35.94	11.27	5.84
ANTHRACENE	1.98	19.76	0.94	3.11	17.53	5.43	49.53	8.11	0.80	2.45	3.45	7.08	9.57	4.07	2.26	1.27
C1-PHEN_ANTHR	6.99	67.38	3.31	156.39	53.33	23.67	157.94	30.68	0.00	17.86	0.00	0.00	74.33	0.00	0.00	0.00
C2-PHEN_ANTHR	5.48	59.07	0.00	85.92	34.69	25.06	107.93	20.33	0.00	14.85	0.00	0.00	0.00	0.00	0.00	0.00
C3-PHEN_ANTHR	0.00	42.69	0.00	0.00	24.20	0.00	59.35	21.89	0.00	10.53	0.00	0.00	0.00	0.00	0.00	0.00
C4-PHEN_ANTHR	0.00	30.68	0.00	0.00	0.00	0.00	39.92	0.00	0.00	4.74	0.00	0.00	0.00	0.00	0.00	0.00
DIBENZOTHIO	1.41	14.85	0.89	6.59	10.36	5.20	27.48	7.69	0.54	3.74	4.77	35.47	8.75	3.08	1.33	4.05
C1-DIBEN	0.00	14.87	0.00	11.48	7.92	0.00	18.95	7.29	0.00	3.95	0.00	0.00	0.00	0.00	0.00	0.00
C2-DIBEN	0.00	28.65	0.00	20.08	13.44	0.00	29.72	11.80	0.00	5.23	0.00	0.00	0.00	0.00	0.00	0.00
C3-DIBEN	0.00	24.44	0.00	0.00	0.00	0.00	22.60	0.00	0.00	4.11	0.00	0.00	0.00	0.00	0.00	0.00
FLUORANTHENE	21.84	229.87	9.56	48.73	190.34	60.54	606.02	72.03	3.36	32.26	28.60	55.48	110.55	36.99	13.42	2.65
PYRENE	15.04	161.95	6.46	31.78	139.27	43.18	451.35	49.56	2.10	19.74	18.43	49.21	77.09	27.70	7.95	3.42
C1-FLUORAN_PYR	5.87	66.45	0.00	0.00	50.81	20.73	165.34	21.12	0.00	8.95	0.00	33.52	40.89	22.67	0.00	0.00
BENaANTHRACENE	5.51	63.91	1.95	1.74	61.59	20.12	212.78	18.67	0.29	9.15	5.31	6.40	12.88	11.59	5.89	0.21
CHRYSENE	10.39	116.40	3.66	8.95	98.20	27.95	345.04	29.71	0.60	12.77	9.34	13.74	16.97	19.25	6.84	0.48
C1-CHRYSENES	0.00	42.41	0.00	0.00	37.02	0.00	123.11	0.00	0.00	7.10	0.00	0.00	0.00	0.00	0.00	0.00
C2-CHRYSENES	0.00	31.84	0.00	0.00	16.17	0.00	50.66	0.00	0.00	4.39	0.00	0.00	0.00	0.00	0.00	0.00
C3-CHRYSENES	0.00	5.81	0.00	0.00	9.87	0.00	21.58	0.00	0.00	1.37	0.00	0.00	0.00	0.00	0.00	0.00
C4-CHRYSENES	0.00	21.18	0.00	0.00	20.41	0.00	59.24	0.00	0.00	4.39	0.00	0.00	0.00	0.00	0.00	0.00
BENbFLUORAN	6.36	71.58	2.54	3.74	67.09	21.10	236.97	19.70	0.35	8.94	6.20	8.72	16.82	15.32	5.00	0.26
BENkFLUORAN	6.76	75.99	2.69	3.97	71.23	22.39	251.59	20.92	0.37	9.49	6.58	9.31	17.85	16.26	5.30	0.28
BENePYRENE	5.37	58.64	2.15	3.16	53.48	17.11	192.25	16.54	0.38	6.94	5.18	9.14	13.49	13.90	4.45	0.39
BENaPYRENE	5.25	64.34	2.10	1.58	59.18	15.01	214.99	15.67	0.19	7.19	4.85	2.47	10.49	10.67	3.86	0.21
PERYLENE	1.83	15.92	0.50	1.65	13.81	3.93	51.21	4.65	0.37	1.70	2.84	7.41	8.74	3.61	1.08	1.00
I123cdPYRENE	4.43	50.88	1.75	1.30	47.98	16.34	168.89	13.75	0.28	6.31	5.40	6.68	12.12	11.04	3.41	0.16
DBahANTHRA	0.96	9.97	0.54	1.14	10.78	3.53	36.50	2.42	0.06	1.30	1.28	1.02	3.01	1.85	1.08	0.59
BghiPERYLENE	4.76	48.89	1.75	2.62	47.42	16.94	163.03	13.30	0.34	6.09	5.50	5.03	12.33	11.25	3.83	0.10

Sample ID Key: Numbers 600 - 799 are dry deposition, 800 - 999 are wet dep. "D"=dry dep, "W"=wet dep, "O"=PAH sample, "N"=Nahant, "T"=Truro. See Sample Log for more details.

INVEST#:	PROC BLANK		SPIKED BLANK		PROC BLANK		SPIKED BLANK		LAB REF OIL		LAB REF OIL	
ID:	-900		-901		-900		-901		-700		-700	
LABSAMNO:	Q4819		Q4820		Q4821		Q4822		W28149		W28158	
MATRIX:	QCBLANK		QCWATER		QCBLANK		QCWATER		QCSBLANK		QCSBLANK	
VOL (LITERS):	1.00		1.00		1.00		1.00		1.00		1.00	
UNIT:	ng/L		%		ng/L		%		ng/AMPULE		ng/AMPULE	
PNA Analyte	Conc	DB QUAL	% Recov	DB QUAL	Conc	DB QUAL	% Recov	DB QUAL	Conc	DB QUAL	Conc	DB QUAL
NAPHTHALENE	1.78		99.7		4.13		97.7		593.23		611.35	
C1-NAPHTHALENES	8.13			NA	2.84			NA	1889.81		1875.12	
C2-NAPHTHALENES	0.00			NA	0.00			NA	1426.85		1410.54	
C3-NAPHTHALENES	0.00			NA	0.00			NA	1154.15		1156.08	
C4-NAPHTHALENES	0.00			NA	0.00			NA	616.56		597.51	
BIPHENYL	2.57		126.5		1.72		109.9		170.36		164.76	
ACENAPHTHYLENE	1.34		99.9		1.20		83.2		0.74		1.46	
ACENAPHTHENE	1.65		104.9		1.94		85.4		15.61		18.24	
FLUORENE	2.35		129.8		1.22		98.1		78.18		75.63	
C1-FLUORENES	0.00			NA	0.00			NA	203.39		190.17	
C2-FLUORENES	0.00			NA	0.00			NA	267.98		245.81	
C3-FLUORENES	0.00			NA	0.00			NA	275.23		252.60	
PHENANTHRENE	2.48		89.2		3.26		78.4		219.56		235.07	
ANTHRACENE	1.30		70.0		0.58		109.0		2.81		6.61	
C1-PHEN_ANTHR	0.00			NA	0.00			NA	490.19		514.44	
C2-PHEN_ANTHR	0.00			NA	0.00			NA	500.40		567.41	
C3-PHEN_ANTHR	0.00			NA	0.00			NA	356.48		360.02	
C4-PHEN_ANTHR	0.00			NA	0.00			NA	194.88		206.49	
DIBENZOTHIO	2.24		72.5		0.49		71.3		139.52		150.43	
C1-DIBEN	0.00			NA	0.00			NA	264.78		277.44	
C2-DIBEN	0.00			NA	0.00			NA	380.31		390.70	
C3-DIBEN	0.00			NA	0.00			NA	298.51		312.90	
FLUORANTHENE	0.42		90.4		1.51		93.6		4.42		4.68	
PYRENE	0.97		70.1		1.26		75.4		10.44		14.97	
C1-FLUORAN_PYR	0.00			NA	0.00			NA	56.71		57.53	
BENaANTHRACENE	0.31		105.0		0.13		91.2		6.07		8.90	
CHRYSENE	0.84		102.3		0.45		112.4		40.89		43.14	
C1-CHRYSENES	0.00			NA	0.00			NA	77.64		71.22	
C2-CHRYSENES	0.00			NA	0.00			NA	106.19		100.74	
C3-CHRYSENES	0.00			NA	0.00			NA	24.35		15.57	
C4-CHRYSENES	0.00			NA	0.00			NA	32.75		33.25	
BENbFLUORAN	0.27		109.4		0.23		110.9		3.97		3.74	
BENkFLUORAN	0.29		108.9		0.25		117.8		4.22		3.97	
BENePYRENE	0.32		107.2		0.27		108.3		10.22		9.50	
BENaPYRENE	0.27		96.3		0.25		99.1		2.19		2.61	
PERYLENE	1.13		125.4		0.79		103.4		2.35		2.04	
I123cdPYRENE	0.21		89.8		0.24		87.2		0.53		1.90	
DBahANTHRA	0.62		94.4		0.44		99.0		1.93		0.96	
BghiPERYLENE	0.77		99.3		0.40		103.6		3.24		3.81	

Sample ID Key: Numbers 600 - 799 are dry deposition, 800 - 999 are wet dep. "D"=dry dep, "W"=wet dep, "O"=PAH sample, "N"=Nahant, "T"=Truro. See Sample Log for more details.

INVEST#:																
ID:	850DOT	630DOT	632DOT	830WOT	854WOT	842WOT	642DOT	832WON	833WOT	858WOT	654DOT	660DON	636DON	856WON	836WON	860WON
LABSAMNO:	C10734	C10735	C10736	C10737	C10739	C10740	C10741	C10742	C10743	C10744	C10745	C10747	C10748	C10749	C10751	C10752
MATRIX:	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER
VOL (LITERS):	1.740	3.270	1.210	4.710	2.310	3.720	0.840	4.200	2.520	0.310	5.680	1.920	1.880	4.580	2.180	2.760
UNIT:	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L
PNA Analyte	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc
NAPHTHALENE	25.04	7.62	6.90	34.75	24.38	81.62	37.31	20.35	78.18	79.16	8.59	41.42	46.47	53.60	46.96	36.40
C1-NAPHTHALENES	17.76	8.39	13.42	16.78	14.18	40.06	29.92	33.32	46.90	137.77	4.57	27.98	42.91	31.48	52.32	18.82
C2-NAPHTHALENES	23.84	11.31	21.40	15.58	24.91	25.22	31.62	23.56	33.78	855.83	4.39	18.68	40.44	20.12	36.68	13.16
C3-NAPHTHALENES	50.33	0.00	48.88	23.90	35.36	24.74	98.12	33.74	55.51	203.66	11.04	38.40	119.68	38.73	76.62	26.57
C4-NAPHTHALENES	0.00	0.00	0.00	0.00	0.00	14.45	0.00	14.74	23.80	235.63	6.53	0.00	0.00	0.00	0.00	0.00
BIPHENYL	5.83	2.82	2.65	5.79	6.03	10.55	5.91	3.59	9.81	40.53	2.74	8.97	6.46	9.62	8.53	4.89
ACENAPHTHYLENE	4.85	1.03	2.52	4.19	2.16	1.15	7.94	2.76	2.11	4.26	0.60	5.26	8.76	4.58	7.44	1.15
ACENAPHTHENE	5.43	2.01	0.91	1.32	1.88	2.06	5.74	2.55	2.85	13.76	1.23	16.97	8.19	5.49	5.06	1.88
FLUORENE	10.78	2.05	2.12	2.68	4.86	4.72	9.70	4.93	6.74	17.27	2.48	23.06	8.17	10.39	10.29	4.49
C1-FLUORENES	0.00	0.00	0.00	0.00	8.64	0.00	0.00	5.15	6.30	17.38	3.41	9.85	24.52	8.95	7.83	5.98
C2-FLUORENES	0.00	0.00	0.00	0.00	33.96	11.96	0.00	23.54	19.82	0.00	13.08	55.33	0.00	31.46	31.45	33.86
C3-FLUORENES	0.00	0.00	0.00	0.00	42.75	19.47	0.00	0.00	0.00	0.00	13.66	94.28	0.00	40.23	60.29	29.65
PHENANTHRENE	77.46	4.11	6.60	7.25	35.90	6.88	85.47	24.81	18.67	39.69	16.40	188.88	60.65	43.19	31.17	28.22
ANTHRACENE	9.75	0.59	0.79	0.43	2.39	0.68	16.24	1.75	2.00	124.91	1.34	20.51	9.12	2.87	2.87	2.55
C1-PHEN_ANTHR	21.87	0.00	0.00	0.00	17.64	4.61	31.32	13.34	12.71	0.00	5.95	55.32	44.10	16.68	22.25	16.01
C2-PHEN_ANTHR	21.18	0.00	0.00	0.00	22.10	5.61	31.89	13.50	12.32	0.00	6.99	38.83	35.62	16.29	22.00	15.99
C3-PHEN_ANTHR	16.88	0.00	0.00	0.00	38.17	10.13	59.96	13.53	12.35	0.00	12.83	20.90	36.80	10.07	15.76	9.82
C4-PHEN_ANTHR	0.00	0.00	0.00	0.00	18.25	0.00	39.53	5.84	11.54	0.00	6.84	8.53	0.00	0.00	6.22	4.48
DIBENZOTHIO	4.92	0.77	1.02	0.84	3.51	1.41	5.39	3.21	2.41	16.13	1.34	11.57	5.05	3.82	6.75	2.41
C1-DIBEN	0.00	0.00	0.00	0.00	7.09	2.45	6.48	5.17	0.00	0.00	1.99	11.85	10.76	5.97	6.63	4.45
C2-DIBEN	14.08	0.00	0.00	0.00	13.09	4.69	26.74	6.82	9.92	45.95	4.86	15.87	19.26	8.58	11.43	8.46
C3-DIBEN	9.25	0.00	0.00	0.00	10.83	0.00	0.00	5.67	7.28	44.06	3.73	9.43	14.04	7.82	7.58	7.41
FLUORANTHENE	89.61	4.03	5.94	6.24	41.70	4.01	84.17	19.78	19.00	16.86	16.58	220.51	69.55	29.86	21.11	22.17
PYRENE	59.27	3.12	14.22	3.33	24.53	2.41	59.52	13.13	10.52	12.22	10.61	154.56	51.17	14.58	15.03	14.52
C1-FLUORAN_PYR	31.54	0.00	0.00	0.00	20.11	0.00	38.33	6.96	8.88	0.00	7.19	65.18	43.64	6.80	7.95	8.34
BENaANTHRACENE	15.85	0.69	1.24	0.64	6.69	0.41	18.80	4.59	1.34	7.36	2.39	56.74	29.46	2.75	4.71	4.86
CHRYSENE	31.52	1.23	2.89	3.30	20.49	1.73	27.07	8.73	11.36	15.65	5.30	107.08	63.15	10.14	10.30	12.82
C1-CHRYSENES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.31	0.00	0.00	0.00	30.05	20.26	4.40	4.09	5.81
C2-CHRYSENES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.49	0.00	0.00	0.00	10.55	271.06	2.50	2.69	3.00
C3-CHRYSENES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.04	0.00	0.00	0.00	0.00
C4-CHRYSENES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	11.91	0.00	0.00	0.00	0.00
BENbFLUORAN	21.32	0.75	1.54	2.00	13.10	0.91	18.28	5.06	5.26	5.57	4.21	71.58	42.21	6.03	7.01	6.88
BENkFLUORAN	22.64	0.80	1.63	2.13	13.91	0.97	19.40	5.37	5.59	5.91	4.47	75.99	44.82	6.41	7.44	7.44
BENePYRENE	16.49	0.69	1.88	1.65	10.40	0.83	13.99	4.60	5.29	6.76	3.25	52.13	34.03	5.07	6.27	5.65
BENaPYRENE	17.76	0.64	1.21	0.88	7.34	0.44	18.16	3.89	1.04	4.82	2.93	67.23	35.13	4.29	4.30	4.87
PERYLENE	9.57	0.52	1.25	1.38	4.04	0.44	7.75	3.79	1.26	11.26	1.44	17.35	33.30	1.54	7.23	3.53
I123cdPYRENE	20.59	0.81	1.71	1.72	11.95	0.91	15.08	4.90	3.34	7.43	3.37	65.73	39.70	5.74	5.68	5.96
DBahANTHRA	3.96	0.29	0.62	0.34	2.36	0.22	3.12	1.01	0.67	11.89	0.68	14.42	9.09	1.58	2.66	1.10
BghiPERYLENE	17.08	0.85	1.80	1.43	9.52	0.95	13.32	5.38	3.47	4.22	2.96	57.89	38.45	5.05	6.39	5.18

Sample ID Key: Numbers 600 - 799 are dry deposition, 800 - 999 are wet dep. "D"=dry dep, "W"=wet dep, "O"=PAH sample, "N"=Nahant, "T"=Truro. See Sample Log (Appendix a-1) for more details.

INVEST#:			PROC BLANK		SPIKED BLANK		PROC BLANK		SPIKED BLANK		LAB REF OIL		LAB REF OIL	
ID:	650DOT	658DOT	-900		-901		-900		-901		-700		-700	
LABSAMNO:	C10753	C10754	Q4997		Q4998		Q5016		Q5017		W28241		W28249	
MATRIX:	WATER	WATER	QCBLANK		QCWATER		QCBLANK		QCWATER		QCSBLANK		QCSBLANK	
VOL (LITERS):	2.450	2.500	1.000		1.000		1.000		1.000		1.000		1.000	
UNIT:	ng/L	ng/L	ng/L		%		ng/L		%		ng/AMPULE		ng/AMPULE	
PNA Analyte	Conc	Conc	Conc	DB QUAL	% Recov	DB QUAL	Conc	DB QUAL	% Recov	DB QUAL	Conc	DB QUAL	Conc	DB QUAL
NAPHTHALENE	26.90	31.13	4.72		124.7		5.08		122.0		539.69		546.13	
C1-NAPHTHALENES	14.30	16.09	4.63			NA	8.39			NA	1627.97		1767.68	
C2-NAPHTHALENES	10.60	12.93	0.00			NA	0.00			NA	1774.35		1896.45	
C3-NAPHTHALENES	20.39	26.15	0.00			NA	0.00			NA	1728.26		1927.88	
C4-NAPHTHALENES	0.00	0.00	0.00			NA	0.00			NA	1126.92		1042.76	
BIPHENYL	4.44	7.71	2.90		104.2		3.28		95.5		153.25		163.51	
ACENAPHTHYLENE	0.71	0.77	0.50		90.3		1.40		86.3		1.14		1.33	
ACENAPHTHENE	0.76	2.38	0.49		95.3		1.06		88.0		13.16		13.35	
FLUORENE	2.97	6.03	1.63		96.7		2.42		87.0		69.80		70.32	
C1-FLUORENES	1.91	6.12	0.00			NA	0.00			NA	203.66		206.61	
C2-FLUORENES	0.00	34.02	0.00			NA	0.00			NA	332.15		364.78	
C3-FLUORENES	0.00	30.36	0.00			NA	0.00			NA	402.34		427.82	
PHENANTHRENE	6.50	28.58	2.05		91.9		1.93		87.7		205.17		208.65	
ANTHRACENE	0.36	2.79	0.00		70.6		1.08		71.7		2.11		2.32	
C1-PHEN_ANTHR	7.01	12.60	0.00			NA	0.00			NA	496.10		505.56	
C2-PHEN_ANTHR	8.24	14.64	0.00			NA	0.00			NA	632.00		668.51	
C3-PHEN_ANTHR	0.00	17.29	0.00			NA	0.00			NA	549.76		573.61	
C4-PHEN_ANTHR	0.00	12.70	0.00			NA	0.00			NA	269.21		281.74	
DIBENZOTHIO	0.77	1.91	0.75		78.1		1.58		71.8		152.49		155.86	
C1-DIBEN	2.81	4.32	0.00			NA	0.00			NA	322.69		336.52	
C2-DIBEN	4.40	12.18	0.00			NA	0.00			NA	489.90		518.55	
C3-DIBEN	4.05	9.67	0.00			NA	0.00			NA	416.72		460.39	
FLUORANTHENE	2.77	24.57	0.60		91.7		1.29		85.3		3.20		3.37	
PYRENE	2.34	15.90	0.94		91.9		1.69		82.2		5.86		9.77	
C1-FLUORAN_PYR	2.65	10.19	0.00			NA	0.00			NA	73.54		67.24	
BENaANTHRACENE	0.63	3.84	0.47		91.4		1.00		85.9		3.62		4.07	
CHRYSENE	2.54	7.87	0.53		111.8		1.58		111.8		46.78		48.78	
C1-CHRYSENES	0.00	0.00	0.00			NA	0.00			NA	60.53		59.91	
C2-CHRYSENES	0.00	0.00	0.00			NA	0.00			NA	85.85		80.21	
C3-CHRYSENES	0.00	0.00	0.00			NA	0.00			NA	12.69		12.45	
C4-CHRYSENES	0.00	0.00	0.00			NA	0.00			NA	7.59		6.90	
BENbFLUORAN	1.26	5.03	0.20		102.7		1.50		97.6		3.23		5.03	
BENkFLUORAN	1.34	5.34	0.22		109.1		1.28		103.9		3.43		5.34	
BENePYRENE	1.13	3.89	2.83		92.8		1.59		83.0		9.57		10.18	
BENaPYRENE	0.71	3.71	0.44		99.6		1.31		86.8		1.87		1.19	
PERYLENE	0.67	2.56	0.16		101.9		2.15		98.5		2.47		1.89	
I123cdPYRENE	0.80	4.11	0.58		104.5		1.99		95.5		0.87		1.52	
DBahANTHRA	0.33	0.95	0.66		114.8		1.33		106.4		2.04		1.65	
BghiPERYLENE	0.76	3.53	0.34		121.1		1.68		103.4		3.66		3.48	

Sample ID Key: Numbers 600 - 799 are dry deposition, 800 - 999 are wet dep. "D"=dry dep, "W"=wet dep, "O"=PAH sample, "N"=Nahant, "T"=Truro. See Sample Log (Appendix a-1) for more details.

INVEST#:											PROC BLANK		SPIKED BLANK	
ID:	656DON	666DOT	668DON	672DON	676DON	862WOT	864WON	866WOT	868WON	872WON	-900		-901	
LABSAMNO:	C10972	C10973	C10974	C10975	C10976	C10977	C10979	C10980	C10982	C10984	Q5301		Q5302	
MATRIX:	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	QCBLANK		QCWATER	
UNIT:	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L		%	
PNA Analyte	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	DB QUAL	% Recov	DB QUAL
NAPHTHALENE	55.53	118.07	19.44	27.16	94.72	8.97	14.78	4.43	11.02	20.34	7.11		107.3	
C1-NAPHTHALENES	34.35	72.75	15.70	18.05	81.87	5.18	13.89	3.03	8.15	13.61	9.86			NA
C2-NAPHTHALENES	18.63	30.98	12.04	0.00	88.59	3.07	10.80	2.04	4.89	6.62	0.00			NA
C3-NAPHTHALENES	34.92	39.23	0.00	0.00	25.59	4.95	0.00	3.45	10.43	19.99	0.00			NA
C4-NAPHTHALENES	0.00	23.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			NA
BIPHENYL	11.15	13.99	5.68	6.33	35.52	2.11	4.69	0.97	2.05	4.34	2.05		127.0	
ACENAPHTHYLENE	12.06	2.35	4.10	3.68	51.33	2.25	2.11	0.18	0.87	1.43	0.99		108.0	
ACENAPHTHENE	14.87	5.94	5.44	6.06	63.94	0.71	3.85	0.35	0.99	2.00	1.93		114.4	
FLUORENE	27.38	7.73	8.45	9.55	92.56	2.94	7.55	0.57	2.94	4.97	3.97		112.3	
C1-FLUORENES	12.57	0.00	0.00	0.00	50.01	0.00	0.00	0.00	0.00	4.63	0.00			NA
C2-FLUORENES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			NA
C3-FLUORENES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			NA
PHENANTHRENE	251.43	16.98	71.65	103.53	1382.02	2.87	53.74	1.29	14.24	14.66	2.33		112.1	
ANTHRACENE	20.50	1.60	4.91	6.00	125.31	0.09	4.96	0.10	0.41	0.57	0.55		83.2	
C1-PHEN_ANTHR	66.12	11.28	22.29	30.39	346.94	0.00	21.44	1.11	5.68	7.06	0.00			NA
C2-PHEN_ANTHR	40.72	10.12	11.50	18.91	220.54	0.00	17.25	0.96	5.20	5.59	0.00			NA
C3-PHEN_ANTHR	27.60	10.35	10.77	14.76	164.29	0.00	15.70	1.31	6.15	6.21	0.00			NA
C4-PHEN_ANTHR	16.51	0.00	0.00	0.00	89.69	0.00	7.15	0.00	0.00	0.00	0.00			NA
DIBENZOTHIO	11.48	2.00	4.54	6.03	56.40	0.38	3.52	0.16	1.38	1.45	0.63		76.4	
C1-DIBEN	0.00	0.00	4.82	5.85	50.95	0.00	5.15	0.40	1.86	1.91	0.00			NA
C2-DIBEN	13.76	0.00	6.28	7.51	58.52	0.00	7.58	0.67	2.48	4.23	0.00			NA
C3-DIBEN	9.56	0.00	0.00	0.00	41.48	0.00	6.34	0.00	2.56	0.00	0.00			NA
FLUORANTHENE	336.73	17.02	84.59	122.49	2046.12	2.41	65.79	0.97	8.74	9.18	1.41		117.5	
PYRENE	242.94	13.82	58.38	85.98	1523.87	0.82	45.51	0.70	5.22	5.19	1.39		114.1	
C1-FLUORAN_PYR	85.32	7.32	20.77	30.48	559.92	0.00	20.33	0.00	3.32	3.30	0.00			NA
BENaANTHRACENE	75.59	3.39	16.48	26.18	508.28	0.23	15.24	0.15	1.52	0.99	0.61		97.1	
CHRYSENE	131.30	5.78	30.77	42.18	771.19	0.90	30.53	0.53	2.36	2.79	1.03		108.5	
C1-CHRYSENES	50.39	0.00	11.57	15.34	335.50	0.00	14.32	0.00	1.20	0.00	0.00			NA
C2-CHRYSENES	25.57	0.00	4.66	8.21	143.28	0.00	7.93	0.00	0.00	0.00	0.00			NA
C3-CHRYSENES	7.51	0.00	1.71	2.26	50.21	0.00	2.40	0.00	0.00	0.00	0.00			NA
C4-CHRYSENES	31.67	0.00	8.13	15.59	173.97	0.00	9.01	0.00	0.00	0.00	0.00			NA
BENbFLUORAN	97.44	4.78	24.13	38.08	664.82	0.46	21.61	0.37	2.01	1.85	0.69		109.7	
BENkFLUORAN	97.54	4.78	24.16	38.12	665.52	0.46	21.63	0.37	2.01	1.85	0.73		109.8	
BENePYRENE	77.55	3.64	19.32	30.24	521.94	0.30	16.45	0.27	1.53	1.51	0.28		99.8	
BENaPYRENE	72.70	3.80	18.75	27.82	561.32	0.15	18.23	0.17	1.37	1.07	0.23		105.1	
PERYLENE	21.32	1.41	5.41	7.26	135.08	0.30	5.91	0.10	1.13	0.65	0.60		126.5	
I123cdPYRENE	85.43	3.59	18.19	29.58	539.30	0.22	16.66	0.22	1.50	1.21	0.90		103.1	
DBahANTHRA	20.28	0.91	4.27	6.14	122.98	0.08	3.99	0.05	0.36	0.31	0.50		73.9	
BghiPERYLENE	85.19	3.79	18.07	30.49	544.38	0.23	16.69	0.31	1.76	1.38	0.59		116.5	

Sample ID Key: Numbers 600 - 799 are dry deposition, 800 - 999 are wet dep, "D"=dry dep, "W"=wet dep, "O"=PAH sample, "N"=Nahant, "T"=Truro. See Sample Log (Appendix A-1) for more details.

INVEST#:	LAB REF OIL	
ID:	-700	
LABSAMNO:	W28571	
MATRIX:	QCSBLANK	
UNIT:	ng/AMPULE	
PNA Analyte	Conc	DB QUAL
NAPHTHALENE	615.11	
C1-NAPHTHALENES	2058.10	
C2-NAPHTHALENES	1689.57	
C3-NAPHTHALENES	1271.85	
C4-NAPHTHALENES	496.78	
BIPHENYL	187.55	
ACENAPHTHYLENE	1.12	
ACENAPHTHENE	16.06	
FLUORENE	83.78	
C1-FLUORENES	214.17	
C2-FLUORENES	297.71	
C3-FLUORENES	286.95	
PHENANTHRENE	228.35	
ANTHRACENE	7.11	
C1-PHEN_ANTHR	446.17	
C2-PHEN_ANTHR	489.65	
C3-PHEN_ANTHR	438.63	
C4-PHEN_ANTHR	124.10	
DIBENZOTHIO	140.02	
C1-DIBEN	285.19	
C2-DIBEN	309.73	
C3-DIBEN	311.02	
FLUORANTHENE	3.54	
PYRENE	10.05	
C1-FLUORAN_PYR	64.60	
BENaANTHRACENE	5.38	
CHRYSENE	43.07	
C1-CHRYSENES	66.93	
C2-CHRYSENES	90.98	
C3-CHRYSENES	17.95	
C4-CHRYSENES	15.58	
BENbFLUORAN	2.69	
BENkFLUORAN	2.69	
BENePYRENE	10.57	
BENaPYRENE	1.79	
PERYLENE	2.11	
I123cdPYRENE	1.40	
DBahANTHRA	1.73	
BghiPERYLENE	3.59	

Sample ID Key: Numbers 600 - 799 are dry deposition, 800 - 999 are wet dep, "D"=dry dep, "W"=wet dep, "O"=PAH sample, "N"=Nahant, "T"=Truro. See Sample Log (Appendix A-1) for more details.

INVEST#:														PROC BLANK		SPIKED B
ID:	888WON	876WON	662DOT	664DON	874WOT	670DOT	696DON	882WOT	896WON	878WOT	892WON	684DON	674DOT	-900		-901
LABSAMNO:	C11377	C11378	C11379	C11380	C11381	C11383	C11384	C11385	C11386	C11387	C11388	C11389	C11390	Q5871		Q5872
MATRIX:	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	QCBLANK		QCWATE
VOL (LITERS):	1.95	3.42	0.87	3.47	3.54	0.48	0.02	0.70	0.09	1.88	0.51	0.45	0.03	0.66		0.79
UNIT:	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L		%
PNA Analyte	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	DB QUAL	% Recov
NAPHTHALENE	16.08	13.47	114.38	23.02	102.18	68.20	1558.32	54.13	275.55	91.37	68.53	82.62	961.01	2.27		103.6
C1-NAPHTHALENES	12.86	9.11	62.77	17.76	85.33	55.88	1860.99	47.87	250.73	85.16	55.78	73.25	1043.42	7.73		
C2-NAPHTHALENES	7.22	5.04	28.42	9.04	31.77	33.25	1271.56	25.13	140.49	35.14	32.21	50.24	868.98	0.00		
C3-NAPHTHALENES	12.60	7.40	35.73	12.05	17.10	38.85	0.00	43.50	219.33	20.72	52.37	79.06	986.88	0.00		
C4-NAPHTHALENES	0.00	4.91	0.00	6.02	4.97	0.00	0.00	32.88	106.16	11.80	29.19	52.60	1102.06	0.00		
BIPHENYL	5.43	3.05	20.27	4.42	9.85	19.31	1446.31	12.01	50.98	10.62	31.38	17.47	320.15	7.20		106.0
ACENAPHTHYLENE	0.85	0.63	2.66	1.71	0.59	2.35	536.85	1.27	18.59	0.48	2.92	17.72	65.16	0.70		80.6
ACENAPHTHENE	1.18	1.32	5.68	4.19	1.50	5.92	440.28	4.05	15.78	1.74	3.74	25.60	110.70	1.78		85.0
FLUORENE	3.42	2.99	11.93	9.21	1.83	9.78	1172.04	5.46	47.24	2.40	8.78	35.31	187.89	2.14		96.3
C1-FLUORENES	3.56	2.07	10.22	4.51	1.45	13.29	1464.05	5.85	57.00	1.67	14.66	28.50	477.10	0.00		
C2-FLUORENES	2.71	3.66	9.21	11.16	1.13	13.87	2584.00	8.90	72.08	2.67	26.91	39.83	839.95	0.00		
C3-FLUORENES	7.70	5.25	40.45	15.89	3.65	37.60	10320.46	0.00	186.61	4.10	40.81	111.40	0.00	0.00		
PHENANTHRENE	11.88	16.75	98.06	91.25	5.65	94.55	4883.19	17.85	232.71	6.62	48.69	406.47	1376.54	3.84		77.3
ANTHRACENE	1.67	1.72	9.38	8.16	0.58	7.09	129.55	1.43	30.51	0.86	4.92	37.36	175.04	1.16		77.9
C1-PHEN_ANTHR	8.12	6.17	44.97	34.12	3.79	44.85	3678.05	15.00	130.63	5.74	47.08	209.43	2527.36	0.00		
C2-PHEN_ANTHR	5.55	5.02	43.12	26.54	3.22	53.27	1967.93	17.00	143.25	5.73	51.66	158.89	1146.22	0.00		
C3-PHEN_ANTHR	4.21	4.02	33.08	16.70	2.44	26.73	1247.62	15.67	100.13	4.64	29.59	88.00	0.00	0.00		
C4-PHEN_ANTHR	0.00	2.70	15.49	7.77	1.73	18.28	1015.05	7.89	48.71	2.67	26.09	48.83	0.00	0.00		
DIBENZOTHIO	0.91	0.89	5.93	4.29	0.60	5.53	345.92	1.40	21.89	0.78	3.55	16.61	101.92	0.57		79.7
C1-DIBEN	1.64	0.95	8.07	4.99	1.13	9.99	403.36	4.08	36.35	1.61	9.72	20.39	0.00	0.00		
C2-DIBEN	3.09	2.04	33.48	10.28	2.03	18.36	1165.52	6.58	42.70	3.00	17.57	35.26	0.00	0.00		
C3-DIBEN	1.80	1.50	13.81	7.63	1.72	14.64	817.09	0.00	58.01	1.91	12.63	21.75	0.00	0.00		
FLUORANTHENE	13.18	17.15	144.22	128.92	6.68	148.43	8832.69	12.57	302.57	7.10	58.36	771.94	2188.04	1.41		93.9
PYRENE	11.43	12.22	103.54	91.43	5.67	111.80	160.43	13.37	264.48	5.98	53.03	650.17	1526.76	2.25		91.1
C1-FLUORAN_PYR	4.64	3.26	44.51	38.06	3.01	39.52	1652.26	10.54	129.60	4.22	37.67	293.90	1081.76	0.00		
BENaANTHRACENE	2.69	3.18	36.52	28.59	1.93	29.81	1164.84	3.80	98.49	2.35	13.48	231.76	584.72	0.57		96.5
CHRYSENE	7.00	8.00	72.96	61.46	3.30	63.27	4579.28	6.12	171.09	4.90	34.18	391.39	1181.38	1.51		102.3
C1-CHRYSENES	2.92	5.93	24.19	21.71	2.31	23.46	1599.10	6.44	108.46	2.64	24.66	202.90	503.68	0.00		
C2-CHRYSENES	3.08	0.92	15.27	9.52	1.42	15.11	1367.72	12.00	98.55	2.87	17.72	107.60	0.00	0.00		
C3-CHRYSENES	0.00	1.73	4.97	2.88	0.61	5.18	0.00	0.00	0.00	0.00	0.00	18.24	0.00	0.00		
C4-CHRYSENES	0.00	0.00	9.66	13.16	1.92	18.63	0.00	0.00	0.00	0.00	0.00	41.37	0.00	0.00		
BENbFLUORAN	4.61	5.28	54.63	45.09	2.80	51.18	3872.39	5.70	152.97	3.19	27.25	344.86	1041.26	0.71		95.4
BENkFLUORAN	4.61	5.28	54.63	45.09	2.80	51.18	3872.39	5.70	152.97	3.19	27.25	344.86	1041.26	0.71		95.4
BENePYRENE	4.21	4.45	38.85	34.02	2.34	37.12	945.71	4.95	122.15	2.84	22.92	264.18	764.43	0.99		89.6
BENaPYRENE	2.45	3.51	52.42	40.78	1.92	35.77	17.24	3.97	113.29	1.84	20.26	227.59	573.62	0.86		72.7
PERYLENE	0.64	0.99	17.25	18.31	0.44	14.09	729.85	0.68	18.50	0.62	4.53	30.45	81.48	9.05		111.3
I123cdPYRENE	2.65	3.85	39.54	35.30	1.94	37.10	109.62	3.92	108.30	1.94	19.89	295.72	791.28	1.42		85.6
DBahANTHRA	0.56	0.81	8.87	7.00	0.39	6.28	267.20	0.93	16.65	0.60	3.11	51.00	116.73	0.69		103.6
BghiPERYLENE	3.35	4.62	41.89	35.11	2.62	40.65	55.09	6.05	137.66	2.45	26.43	292.35	857.05	1.11		104.7

Sample ID Key: Numbers 600 - 799 are dry deposition, 800 - 999 are wet dep. "D"=dry dep, "W"=wet dep, "O"=PAH sample, "N"=Nahant, "T"=Truro. See Sample Log (Appendix A-1) for more details.

INVEST#:	LANK	LAB REF OIL	
ID:		-700	
LABSAMNO:		W29146	
MATRIX:	R	QCSBLANK	
VOL (LITERS):		1.00	
UNIT:		ng/L	
PNA Analyte	DB QUAL	Conc	DB QUAL
NAPHTHALENE		515.56	
C1-NAPHTHALENES	NA	2428.67	
C2-NAPHTHALENES	NA	2145.29	
C3-NAPHTHALENES	NA	1803.23	
C4-NAPHTHALENES	NA	1041.30	
BIPHENYL		200.65	
ACENAPHTHYLENE		0.84	
ACENAPHTHENE		14.11	
FLUORENE		82.33	
C1-FLUORENES	NA	217.49	
C2-FLUORENES	NA	354.40	
C3-FLUORENES	NA	344.65	
PHENANTHRENE		215.99	
ANTHRACENE		2.38	
C1-PHEN_ANTHR	NA	488.44	
C2-PHEN_ANTHR	NA	586.26	
C3-PHEN_ANTHR	NA	519.36	
C4-PHEN_ANTHR	NA	227.66	
DIBENZOTHIO		170.54	
C1-DIBEN	NA	346.65	
C2-DIBEN	NA	544.92	
C3-DIBEN	NA	465.84	
FLUORANTHENE		8.91	
PYRENE		16.93	
C1-FLUORAN_PYR	NA	83.00	
BENaANTHRACENE		4.21	
CHRYSENE		55.01	
C1-CHRYSENES	NA	78.52	
C2-CHRYSENES	NA	110.71	
C3-CHRYSENES	NA	27.24	
C4-CHRYSENES	NA	15.15	
BENbFLUORAN		3.28	
BENkFLUORAN		3.28	
BENePYRENE		10.55	
BENaPYRENE		1.48	
PERYLENE		2.64	
I123cdPYRENE		0.86	
DBahANTHRA		1.80	
BghiPERYLENE		4.27	

Sample ID Key: Numbers 600 - 799 are dry deposition, 800 - 999 are wet dep. "D"=dry dep, "W"=wet dep, "O"=PAH sample, "N"=Nahant, "T"=Truro. See Sample Log (Appendix A-1) for more details.

INVEST#:																
ID:	692DON	678DOT	908WON	906WOT	710DOT	712DON	704DON	708DON	912WON	706DOT	898WOT	910WOT	698DOT	904WON	690DOT	880WON
LABSAMNO:	C12506	C12507	C12508	C12509	C12510	C12511	C12512	C12513	C12514	C12515	C12516	C12517	C12518	C12519	C12520	C12521
VOL (LITERS):	0.05	0.05	0.55	0.05	1.80	1.57	1.97	0.91	2.60	1.00	0.51	3.82	1.15	0.95	3.25	0.11
UNIT:	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L
PNA Analyte	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc
NAPHTHALENE	177.87	1364.15	41.70	1869.85	47.90	23.60	6.59	17.74	20.62	33.98	89.61	4.71	7.79	16.16	11.47	182.76
C1-NAPHTHALENES	213.29	3028.86	33.71	2076.02	25.03	24.76	10.27	22.70	17.58	23.70	89.96	5.79	11.44	17.15	12.31	212.55
C2-NAPHTHALENES	159.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	495.18
C3-NAPHTHALENES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C4-NAPHTHALENES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BIPHENYL	99.38	591.82	5.80	5506.06	9.39	8.35	7.05	6.56	2.82	5.89	9.10	3.06	4.49	3.70	2.98	37.42
ACENAPHTHYLENE	8.14	108.71	6.83	84.46	2.24	8.45	3.41	6.83	2.93	4.79	5.42	1.49	1.15	5.35	2.46	95.91
ACENAPHTHENE	21.38	341.42	11.54	521.85	6.92	9.14	4.30	4.87	6.00	2.63	13.24	3.00	5.22	10.58	1.06	81.69
FLUORENE	194.54	207.48	19.44	465.55	7.00	20.23	4.90	13.42	3.74	5.97	9.39	1.91	2.53	4.06	0.97	144.10
C1-FLUORENES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C2-FLUORENES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C3-FLUORENES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PHENANTHRENE	1660.16	1181.21	31.97	890.70	12.04	69.51	27.23	95.08	11.34	17.14	68.42	2.27	6.49	25.94	8.13	1164.81
ANTHRACENE	66.76	305.84	18.34	783.89	3.96	19.99	7.84	13.05	1.09	4.04	7.30	0.96	2.57	6.11	1.83	160.05
C1-PHEN_ANTHR	1248.84	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	478.66
C2-PHEN_ANTHR	422.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	417.58
C3-PHEN_ANTHR	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C4-PHEN_ANTHR	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
DIBENZOTHIO	46.39	202.12	14.49	241.00	1.27	8.49	3.95	6.59	1.85	3.34	6.99	1.22	0.44	3.01	0.62	68.15
C1-DIBEN	72.88	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	11.81	0.00	0.00
C2-DIBEN	94.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	15.21	0.00	0.00
C3-DIBEN	107.66	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FLUORANTHENE	2327.64	978.21	44.25	785.01	10.47	78.62	42.98	175.41	12.48	16.62	43.35	0.52	2.61	33.88	11.55	1739.03
PYRENE	8.98	412.53	22.25	348.11	8.49	58.33	35.03	155.45	9.80	17.50	44.88	1.21	2.63	30.97	10.20	1360.23
C1-FLUORAN_PYR	369.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	33.81	0.00	628.01
BENaANTHRACENE	157.55	320.70	23.79	110.15	3.09	18.91	19.72	41.29	3.29	4.19	16.80	0.33	1.18	10.68	1.86	416.27
CHRYSENE	1171.73	847.34	29.20	724.80	4.62	27.15	30.62	97.41	4.32	11.02	23.22	0.46	1.85	20.33	4.60	687.64
C1-CHRYSENES	248.55	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	21.18	0.00	459.93
C2-CHRYSENES	528.46	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	20.84	0.00	293.56
C3-CHRYSENES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C4-CHRYSENES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BENbFLUORAN	563.71	348.01	7.20	47.64	2.79	13.60	20.81	31.36	4.11	8.00	25.27	0.26	1.07	15.30	2.68	538.24
BENkFLUORAN	563.71	348.01	7.20	47.64	2.79	13.60	20.81	31.36	8.36	8.49	26.82	0.28	1.14	16.24	2.85	571.43
BENePYRENE	24.59	204.64	14.15	73.43	2.17	11.70	16.40	46.38	3.88	7.28	29.23	0.21	0.83	14.20	2.26	493.82
BENaPYRENE	69.50	91.72	23.32	154.06	1.67	7.53	12.60	44.04	4.02	7.03	14.24	0.32	1.64	16.68	3.24	364.28
PERYLENE	46.18	925.43	24.86	544.39	1.04	3.90	5.61	8.92	0.42	1.77	2.56	0.30	0.18	2.56	0.23	62.83
I123cdPYRENE	51.21	128.00	17.72	280.65	4.61	12.42	18.97	42.51	2.61	5.09	17.20	0.13	1.30	9.76	2.15	403.91
DBahANTHRA	39.51	355.35	12.93	158.14	5.18	10.84	13.24	14.95	0.68	1.78	8.14	0.49	1.06	3.86	0.52	92.58
BghiPERYLENE	35.12	177.17	7.87	189.21	3.58	13.67	15.34	51.09	3.02	6.62	19.78	0.35	1.01	11.65	2.31	416.59

Sample ID Key: Numbers 600 - 799 are dry deposition, 800 - 999 are wet dep. "D"=dry dep, "W"=wet dep, "O"=PAH sample, "N"=Nahant, "T"=Truro. See Sample Log (Appendix A-1) for more details.

INVEST#:											PROC BLANK		SPIKED BLANK		PROC BLANK	
ID:	696DON	682DOT	686DOT	688DON	884WON	702DON	896WON	886WOT	890WOT	902WON	-900		-901		-900	
LABSAMNO:	C12522	C12523	C12524	C12525	C12526	C12527	C12528	C12529	C12530	C12531	Q6933		Q6934		Q6944	
VOL (LITERS):	0.05	lost	0.05	0.12	0.93	0.05	0.14	2.61	1.22	1.68	1.05		1.15		1.00	
UNIT:	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L		%		ng/L	
PNA Analyte	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	DB QUAL	% Recov	DB QUAL	Conc	DB QUAL
NAPHTHALENE	1458.18		726.69	193.42	23.39	496.38	72.51	32.17	24.94	14.54	7.52		77.1		10.48	
C1-NAPHTHALENES	2918.38		593.41	254.57	12.18	1066.00	124.20	26.61	35.17	22.20	14.31			NA	5.10	
C2-NAPHTHALENES	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			NA	0.00	
C3-NAPHTHALENES	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			NA	0.00	
C4-NAPHTHALENES	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			NA	0.00	
BIPHENYL	225.34		198.39	49.10	6.31	249.36	18.59	4.13	7.19	8.48	5.25		120.4		5.08	
ACENAPHTHYLENE	219.10		36.18	94.33	5.87	117.12	20.65	0.31	2.86	3.64	3.75		100.9		1.07	
ACENAPHTHENE	173.87		269.63	117.28	7.31	89.71	35.56	0.94	4.35	2.78	8.54		99.3		2.28	
FLUORENE	439.41		169.10	117.35	4.43	96.12	35.76	3.40	3.76	5.94	12.78		105.0		1.45	
C1-FLUORENES	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			NA	0.00	
C2-FLUORENES	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			NA	0.00	
C3-FLUORENES	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			NA	0.00	
PHENANTHRENE	2836.06		738.14	1751.79	33.10	1010.43	120.20	15.35	10.20	14.57	12.78		84.3		5.45	
ANTHRACENE	270.90		105.37	57.84	2.93	132.24	22.69	0.49	8.59	10.36	7.12		84.1		5.30	
C1-PHEN_ANTHR	1298.61		0.00	727.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00			NA	0.00	
C2-PHEN_ANTHR	2212.03		0.00	794.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00			NA	0.00	
C3-PHEN_ANTHR	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			NA	0.00	
C4-PHEN_ANTHR	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			NA	0.00	
DIBENZOTHIO	147.86		32.66	70.80	2.00	44.04	26.34	1.58	2.72	1.96	4.08		78.5		3.03	
C1-DIBEN	0.00		0.00	93.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00			NA	0.00	
C2-DIBEN	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			NA	0.00	
C3-DIBEN	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			NA	0.00	
FLUORANTHENE	5207.08		618.13	2683.32	35.10	1729.71	137.95	6.02	9.11	14.33	6.90		77.9		1.28	
PYRENE	3877.84		388.58	2076.70	28.84	1378.69	110.96	5.40	13.31	11.45	4.39		80.4		1.35	
C1-FLUORAN_PYR	1662.58		0.00	773.33	0.00	846.16	0.00	0.00	0.00	0.00	0.00			NA	0.00	
BENaANTHRACENE	1194.54		142.34	773.39	10.23	447.11	34.79	1.19	13.44	5.30	3.27		91.0		1.08	
CHRYSENE	2775.60		373.34	1204.07	15.87	1039.12	68.64	3.45	12.71	7.69	5.95		106.1		2.54	
C1-CHRYSENES	996.45		0.00	535.46	0.00	0.00	0.00	0.00	0.00	0.00	0.00			NA	0.00	
C2-CHRYSENES	693.69		0.00	335.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00			NA	0.00	
C3-CHRYSENES	251.51		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			NA	0.00	
C4-CHRYSENES	562.99		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			NA	0.00	
BENbFLUORAN	2211.03		277.97	717.13	9.95	841.81	53.76	2.04	3.37	3.54	2.37		86.1		1.02	
BENkFLUORAN	2359.25		296.61	765.20	10.61	898.25	57.36	2.18	3.37	3.54	2.08		86.4		1.08	
BENePYRENE	1756.14		210.50	797.66	10.16	732.93	52.25	2.00	4.43	2.77	5.94		76.9		0.28	
BENaPYRENE	261.22		32.54	521.06	7.23	162.07	34.44	1.01	5.18	2.94	9.14		71.3		2.39	
PERYLENE	1158.47		1426.20	611.50	18.19	1502.27	14.41	3.00	6.72	3.38	24.01		82.8		1.66	
I123cdPYRENE	1589.96		170.39	654.07	8.53	623.00	38.55	1.62	5.34	4.99	6.55		78.5		0.55	
DBahANTHRA	267.70		39.38	137.64	1.69	109.52	6.72	0.89	7.57	3.47	9.50		77.2		2.01	
BghiPERYLENE	1242.00		98.46	650.24	8.08	568.14	49.41	1.51	5.24	6.18	5.11		84.2		1.46	

Sample ID Key: Numbers 600 - 799 are dry deposition, 800 - 999 are wet dep. "D"=dry dep, "W"=wet dep, "O"=PAH sample, "N"=Nahant, "T"=Truro. See Sample Log (Appendix A-1) for more details.

INVEST#:	SPIKED BLANK		PROC BLANK		SPIKED BLANK		PROC BLANK		SPIKED BLANK		LAB ref oil		LAB ref oil		LAB ref oil	
ID:	-901		-900		-901		-900		-901		-700		-700		-700	
LABSAMNO:	Q6945		Q6956		Q6957		Q6958		Q6959		W29793		W29885		W29947	
VOL (LITERS):	1.00		1.00		1.00		1.00		1.00		1.00		1.00		1.00	
UNIT:	%		ng/L		%		ng/L		%		ng/L		ng/L		ng/L	
PNA Analyte	% Recov	DB QUAL	Conc	DB QUAL	% Recov	DB QUAL	Conc	DB QUAL	% Recov	DB QUAL	Conc	DB QUAL	Conc	DB QUAL	Conc	DB QUAL
NAPHTHALENE	70.7		4.76		99.6		15.19		81.2		472.52		468.77		421.06	
C1-NAPHTHALENES		NA	8.12			NA	25.33			NA	2434.93		2060.52		1767.96	
C2-NAPHTHALENES		NA	0.00			NA	0.00			NA	2785.14		2687.38		1603.31	
C3-NAPHTHALENES		NA	0.00			NA	0.00			NA	2504.58		2189.00		1485.57	
C4-NAPHTHALENES		NA	0.00			NA	0.00			NA	1382.27		1640.38		894.00	
BIPHENYL	82.3		2.51		84.0		9.29		89.4		171.78		182.67		184.90	
ACENAPHTHYLENE	78.9		2.50		85.2		9.01		75.4		0.43		0.23		0.52	
ACENAPHTHENE	86.6		2.53		87.4		13.94		84.1		20.07		18.13		25.24	
FLUORENE	108.1		2.61		92.2		13.73		99.3		108.53		110.28		109.14	
C1-FLUORENES		NA	0.00			NA	0.00			NA	291.27		246.97		289.73	
C2-FLUORENES		NA	0.00			NA	0.00			NA	391.80		302.25		338.51	
C3-FLUORENES		NA	0.00			NA	0.00			NA	375.79		400.60		360.30	
PHENANTHRENE	85.2		2.77		96.1		4.96		102.4		233.25		273.51		235.50	
ANTHRACENE	84.0		0.15		84.4		12.39		77.2		15.75		11.83		11.95	
C1-PHEN_ANTHR		NA	0.00			NA	0.00			NA	574.02		587.66		566.33	
C2-PHEN_ANTHR		NA	0.00			NA	0.00			NA	595.04		815.71		653.69	
C3-PHEN_ANTHR		NA	0.00			NA	0.00			NA	533.80		565.93		525.26	
C4-PHEN_ANTHR		NA	0.00			NA	0.00			NA	272.36		364.31		291.87	
DIBENZOTHIO	73.0		0.76		70.2		2.84		73.4		148.19		151.77		139.82	
C1-DIBEN		NA	0.00			NA	0.00			NA	306.98		300.64		253.75	
C2-DIBEN		NA	0.00			NA	0.00			NA	475.37		505.80		351.95	
C3-DIBEN		NA	0.00			NA	0.00			NA	346.61		403.19		287.95	
FLUORANTHENE	98.1		0.41		101.7		5.15		108.1		9.74		5.39		5.10	
PYRENE	97.3		0.95		87.9		12.12		98.5		19.06		18.60		12.16	
C1-FLUORAN_PYR		NA	0.00			NA	0.00			NA	85.17		66.79		102.76	
BENaANTHRACENE	104.0		0.84		107.4		11.44		97.7		5.92		4.24		6.24	
CHRYSENE	96.9		0.78		93.6		6.14		95.2		43.38		45.39		52.92	
C1-CHRYSENES		NA	0.00			NA	0.00			NA	105.75		70.52		122.73	
C2-CHRYSENES		NA	0.00			NA	0.00			NA	129.93		110.88		186.42	
C3-CHRYSENES		NA	0.00			NA	0.00			NA	27.68		25.96		78.81	
C4-CHRYSENES		NA	0.00			NA	0.00			NA	28.30		27.21		44.68	
BENbFLUORAN	96.9		0.56		73.8		5.39		75.5		4.10		2.98		5.39	
BENkFLUORAN	102.8		0.59		78.8		5.39		75.5		4.35		3.18		5.39	
BENePYRENE	91.5		0.33		95.2		3.17		76.5		11.76		10.68		9.95	
BENaPYRENE	124.3		0.82		77.4		3.66		81.7		3.16		1.64		2.18	
PERYLENE	95.8		12.06		83.1		3.22		88.9		1.68		0.97		3.87	
I123cdPYRENE	86.2		0.46		73.6		10.82		79.7		2.17		0.23		4.27	
DBahANTHRA	103.3		0.43		78.6		7.08		72.6		1.56		1.33		3.14	
BghiPERYLENE	91.5		0.55		81.0		9.67		80.5		3.82		3.78		3.86	

Sample ID Key: Numbers 600 - 799 are dry deposition, 800 - 999 are wet dep. "D"=dry dep, "W"=wet dep, "O"=PAH sample, "N"=Nahant, "T"=Truro. See Sample Log (Appendix A-1) for more details.

INVEST#:	LAB ret oil	
ID:	-700	
LABSAMNO:	W29950	
VOL (LITERS):	1.00	
UNIT:	ng/L	
PNA Analyte	Conc	DB QUAL
NAPHTHALENE	489.70	
C1-NAPHTHALENES	2188.46	
C2-NAPHTHALENES	1971.52	
C3-NAPHTHALENES	1818.12	
C4-NAPHTHALENES	1010.22	
BIPHENYL	142.97	
ACENAPHTHYLENE	0.35	
ACENAPHTHENE	18.64	
FLUORENE	81.88	
C1-FLUORENES	213.21	
C2-FLUORENES	253.14	
C3-FLUORENES	243.88	
PHENANTHRENE	217.27	
ANTHRACENE	9.87	
C1-PHEN_ANTHR	529.87	
C2-PHEN_ANTHR	640.02	
C3-PHEN_ANTHR	539.73	
C4-PHEN_ANTHR	262.98	
DIBENZOTHIO	137.17	
C1-DIBEN	236.61	
C2-DIBEN	327.31	
C3-DIBEN	247.51	
FLUORANTHENE	6.06	
PYRENE	11.60	
C1-FLUORAN_PYR	83.12	
BENaANTHRACENE	6.99	
CHRYSENE	59.56	
C1-CHRYSENES	117.13	
C2-CHRYSENES	115.87	
C3-CHRYSENES	28.53	
C4-CHRYSENES	45.19	
BENbFLUORAN	7.11	
BENkFLUORAN	7.11	
BENePYRENE	11.83	
BENaPYRENE	5.36	
PERYLENE	2.93	
I123cdPYRENE	1.73	
DBahANTHRA	3.38	
BghiPERYLENE	3.69	

Sample ID Key: Numbers 600 - 799 are dry deposition, 800 - 999 are wet dep. "D"=dry dep, "W"=wet dep, "O"=PAH sample, "N"=Nahant, "T"=Truro. See Sample Log (Appendix A-1) for more details.

INVEST#:	0	0	0	0	0	0	0	0	0	0	0	0	0	PROC BLANK		SPIKED B
ID:	613	617	619	621	813	817	819	821	624	628	815	826	828	-900		-901
LABSAMNO:	C10068	C10069	C10070	C10071	C10072	C10073	C10074	C10075	C10076	C10077	C10078	C10079	C10080	Q4385		Q4386
UNIT:	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L		%
Analyte (Cont)	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	DB QUAL	% Recov
2-METHYLNAPH	20.37	29.45	33.24	22.03	29.60	51.69	29.77	33.11	83.39	49.02	12.97	43.30	42.16	2.34		113.3
1-METHYLNAPH	14.89	19.75	26.12	16.58	25.87	49.74	17.94	28.33	55.97	32.09	9.41	29.27	38.13	2.23		102.2
2,6-DIMETHNAPH	6.42	15.23	17.46	15.18	6.34	6.45	10.98	12.76	27.53	15.99	6.16	14.30	16.81	1.39		71.4
2,3,5-TRIMETHNAPH	5.15	9.86	9.34	12.09	2.73	2.70	2.70	5.39	9.95	4.63	2.18	4.98	10.08	3.14		94.3
1-METHYLPHEN	0.46	9.29	27.75	15.11	0.42	0.58	2.49	1.65	9.16	5.99	1.13	2.64	5.69	3.23		84.2
Surrogate Recoveries																
NAPHD8:	41.19	50.38	42.97	36.36	45.43	57.87	40.38	46.25	50.00	32.37	61.03	44.03	58.79	51.27		51.09
ACEND10:	41.32	43.04	45.69	25.94	60.13	88.60	34.45	42.75	53.91	29.29	55.74	40.74	53.63	62.68		67.90
PHEND10:	64.25	74.38	70.63	81.23	62.18	79.40	54.77	53.97	76.75	47.03	66.04	58.71	66.76	70.71		74.35
CHRYD12:	90.06	86.84	99.89	75.19	94.76	100.23	87.50	82.37	101.02	74.94	97.68	95.44	95.21	93.57		95.10
PERYD12:	50.94	41.01	57.42	34.33	49.08	54.10	43.92	40.18	39.86	37.01	52.79	42.91	44.34	58.34		45.83

Sample ID Key: Numbers 600 - 799 are dry deposition, 800 - 999 are wet dep. "D"=dry dep, "W"=wet dep, "O"=PAH sample, "N"=Nahant, "T"=Truro. See Sample Log (Appendix A-1) for more details.

INVEST#:	LANK	LAB REF OIL	
ID:		-700	
LABSAMNO:		W27588	
UNIT:		ng/ampule	
Analyte (Cont)	DB QUAL	Conc	DB QUAL
2-METHYLNAPH		917.12	
1-METHYLNAPH		711.78	
2,6-DIMETHNAPH		506.18	
2,3,5-TRIMETHNAPH		300.35	
1-METHYLPHEN		151.27	
Surrogate Recoveries			
NAPHD8:		80.67	
ACEND10:		93.91	
PHEND10:		104.39	
CHRYD12:		145.43	
PERYD12:		47.43	

Sample ID Key: Numbers 600 - 799 are dry deposition, 800 - 999 are wet dep. "D"=dry dep, "W"=wet dep, "O"=PAH sample, "N"=Nahant, "T"=Truro. See Sample Log (Appendix A-1) for more details.

INVEST#:	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ID:	652DON	852WON	846WOT	646DOT	648DON	848WON	644WON	844WON	838WOT	840WON	638DOT	633DOT	615DON	824WON	626DOT	200BOL
LABSAMNO:	C10648	C10649	C10650	C10651	C10652	C10653	C10654	C10655	C10656	C10657	C10658	C10659	C10660	C10661	C10662	C10663
UNIT:	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L
Analyte (Cont)	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc
2-METHYLNAPH	2.86	20.68	3.31	99.36	21.71	20.81	31.45	61.55	8.81	11.92	22.32	22.98	29.78	105.90	29.20	18.78
1-METHYLNAPH	1.62	15.18	2.18	54.83	13.14	11.36	21.55	39.46	7.83	7.86	14.63	14.36	20.54	70.50	23.31	14.60
2,6-DIMETHNAPH	1.01	8.48	1.33	30.73	5.48	6.68	11.16	12.30	2.39	3.27	4.46	7.73	15.33	44.55	10.29	12.30
2,3,5-TRIMETHNAPH	0.44	7.24	0.86	16.27	1.53	3.32	10.46	4.63	1.07	1.98	12.26	2.84	12.53	13.05	4.22	14.78
1-METHYLPHEN	1.47	13.53	0.88	32.14	9.73	6.21	34.96	6.96	0.75	4.15	6.94	12.60	31.28	6.94	2.54	1.80
Surrogate Recoveries																
NAPHD8:	77.18	74.88	91.07	75.25	57.26	71.98	95.43	14.57	85.47	96.27	61.37	62.53	39.45	79.56	45.17	7.33
ACEND10:	67.24	73.41	68.19	78.95	64.54	65.90	80.51	18.10	84.19	89.16	60.49	54.33	29.51	67.22	57.77	6.44
PHEND10:	67.17	80.65	69.82	78.64	60.01	74.47	87.47	37.79	63.42	88.40	57.76	51.96	32.01	71.69	80.66	16.13
CHRYD12:	55.83	71.72	81.22	65.07	50.48	62.41	74.28	35.57	96.19	76.48	83.42	97.91	83.01	62.75	68.64	47.20
PERYD12:	82.59	74.84	87.48	70.67	78.84	79.22	80.49	48.85	82.61	82.73	78.56	36.54	35.75	77.07	78.06	38.24

Sample ID Key: Numbers 600 - 799 are dry deposition, 800 - 999 are wet dep. "D"=dry dep, "W"=wet dep, "O"=PAH sample, "N"=Nahant, "T"=Truro. See Sample Log for more details.

INVEST#:	PROC BLANK		SPIKED BLANK		PROC BLANK		SPIKED BLANK		LAB REF OIL		LAB REF OIL	
ID:	-900		-901		-900		-901		-700		-700	
LABSAMNO:	Q4819		Q4820		Q4821		Q4822		W28149		W28158	
UNIT:	ng/L		%		ng/L		%		ng/AMPULE		ng/AMPULE	
Analyte (Cont)	Conc	DB QUAL	% Recov	DB QUAL	Conc	DB QUAL	% Recov	DB QUAL	Conc	DB QUAL	Conc	DB QUAL
2-METHYLNAPH	5.17		122.1		0.76		93.6		1034.11		1035.57	
1-METHYLNAPH	2.96		99.1		2.08		78.8		855.70		839.55	
2,6-DIMETHNAPH	2.52		124.0		1.87		87.6		701.50		655.93	
2,3,5-TRIMETHNAPH	1.44		116.6		2.06		88.7		354.59		332.67	
1-METHYLPHEN	0.64		71.5		0.96		76.3		117.29		149.64	
Surrogate Recoveries												
NAPHD8:	76.36		81.02		76.59		76.98		89.37		94.64	
ACEND10:	65.42		40.73		48.98		43.98		87.08		96.69	
PHEND10:	72.04		92.55		81.73		84.46		90.65		91.51	
CHRYD12:	67.59		69.82		64.00		57.11		77.76		79.13	
PERYD12:	53.46		57.42		66.84		59.61		86.68		83.18	

Sample ID Key: Numbers 600 - 799 are dry deposition, 800 - 999 are wet dep. "D"=dry dep, "W"=wet dep, "O"=PAH sample, "N"=Nahant, "T"=Truro. See Sample Log for more details.

INVEST#:	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ID:	850DOT	630DOT	632DOT	830WOT	854WOT	842WOT	642DOT	832WON	833WOT	858WOT	654DOT	660DON	636DON	856WON	836WON	860WON
LABSAMNO:	C10734	C10735	C10736	C10737	C10739	C10740	C10741	C10742	C10743	C10744	C10745	C10747	C10748	C10749	C10751	C10752
UNIT:	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L
Analyte (Cont)	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc
2-METHYLNAPH	11.66	5.02	7.97	9.01	8.78	19.87	17.27	19.37	27.18	96.18	2.80	18.07	26.89	19.06	29.83	11.49
1-METHYLNAPH	6.10	3.37	5.45	7.77	5.40	20.19	12.65	13.95	19.72	41.59	1.77	9.91	16.02	12.42	22.49	7.33
2,6-DIMETHNAPH	4.34	3.38	3.85	2.81	3.72	6.43	5.82	9.75	6.14	622.53	0.86	5.65	4.75	4.32	12.12	2.40
2,3,5-TRIMETHNAPH	1.54	0.89	1.65	1.14	2.21	2.88	0.77	3.36	1.53	12.28	0.37	2.28	23.02	3.36	5.67	1.06
1-METHYLPHEN	4.82	0.63	1.20	0.80	2.66	0.45	3.96	3.07	2.20	19.43	1.58	13.74	6.88	3.88	6.83	3.32
Surrogate Recoveries																
NAPHD8:	79.04	60.49	87.12	98.64	81.48	63.34	76.71	100.35	57.38	111.71	73.43	84.30	28.26	25.60	67.34	78.42
ACEND10:	68.29	53.22	79.39	73.93	71.24	56.14	77.37	62.20	54.01	132.74	62.37	75.91	18.39	20.99	53.62	75.60
PHEND10:	70.07	52.14	73.53	69.57	71.77	52.27	72.09	62.23	45.53	121.62	60.11	75.37	17.55	22.15	55.84	72.42
CHRYD12:	80.64	74.78	60.24	77.58	79.62	57.01	84.52	50.26	38.91	104.03	67.28	59.71	14.74	22.94	42.30	51.68
PERYD12:	66.01	70.96	71.47	59.76	67.22	58.98	66.28	66.73	50.96	66.36	61.68	83.63	18.22	29.15	58.09	64.23

Sample ID Key: Numbers 600 - 799 are dry deposition, 800 - 999 are wet dep. "D"=dry dep, "W"=wet dep, "O"=PAH sample, "N"=Nahant, "T"=Truro. See Sample Log (Appendix a-1) for more details.

INVEST#:	0	0	PROC BLANK		SPIKED BLANK		PROC BLANK		SPIKED BLANK		LAB REF OIL		LAB REF OIL	
ID:	650DOT	658DOT	-900		-901		-900		-901		-700		-700	
LABSAMNO:	C10753	C10754	Q4997		Q4998		Q5016		Q5017		W28241		W28249	
UNIT:	ng/L	ng/L	ng/L		%		ng/L		%		ng/AMPULE		ng/AMPULE	
Analyte (Cont)	Conc	Conc	Conc	DB QUAL	% Recov	DB QUAL	Conc	DB QUAL	% Recov	DB QUAL	Conc	DB QUAL	Conc	DB QUAL
2-METHYLNAPH	8.28	9.99	2.63		122.2		4.07		125.9		903.87		984.71	
1-METHYLNAPH	6.02	6.10	2.00		101.3		4.32		98.8		724.10		782.97	
2,6-DIMETHNAPH	1.30	3.68	3.74		92.7		3.17		91.5		583.10		612.99	
2,3,5-TRIMETHNAPH	0.89	1.69	1.07		107.7		3.51		96.1		312.06		324.84	
1-METHYLPHEN	1.77	3.31	0.68		73.9		1.66		74.9		104.75		136.58	
Surrogate Recoveries														
NAPHD8:	90.30	3236.59	80.69		84.44		91.85		86.52		117.93		104.95	
ACEND10:	134.83	2470.68	75.83		80.47		84.84		84.52		113.57		102.94	
PHEND10:	77.50	2682.89	68.13		83.71		75.77		82.31		102.84		96.48	
CHRYD12:	50.76	3212.88	49.51		62.80		52.35		55.05		81.42		85.35	
PERYD12:	55.18	1393.76	74.47		73.37		83.41		72.68		86.16		90.85	

Sample ID Key: Numbers 600 - 799 are dry deposition, 800 - 999 are wet dep. "D"=dry dep, "W"=wet dep, "O"=PAH sample, "N"=Nahant, "T"=Truro. See Sample Log (Appendix a-1) for more details.

INVEST#:	0	0	0	0	0	0	0	0	0	0	PROC BLANK		SPIKED BLANK	
ID:	656DON	666DOT	668DON	672DON	676DON	862WOT	864WON	866WOT	868WON	872WON	-900		-901	
LABSAMNO:	C10972	C10973	C10974	C10975	C10976	C10977	C10979	C10980	C10982	C10984	Q5301		Q5302	
UNIT:	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L		%	
Analyte (Cont)	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	DB QUAL	% Recov	DB QUAL
2-METHYLNAPH	20.30	37.24	8.68	11.73	52.04	3.23	7.87	1.89	5.10	8.13	5.33		128.4	
1-METHYLNAPH	14.05	35.51	7.02	6.32	29.83	1.95	6.02	1.14	3.05	5.48	4.53		124.9	
2,6-DIMETHNAPH	5.48	6.48	4.05	2.38	22.47	0.64	2.36	0.50	1.20	1.91	1.75		112.0	
2,3,5-TRIMETHNAPH	1.64	1.50	2.52	1.80	31.76	0.26	1.44	0.13	0.72	2.03	4.25		122.2	
1-METHYLPHEN	18.21	4.26	7.05	8.72	99.69	0.32	5.93	0.24	1.48	1.98	1.87		89.7	
Surrogate Recoveries														
NAPHD8:	62.56	22.72	63.83	75.72	62.04	59.27	59.82	60.54	64.01	65.01	61.87		54.85	
ACEND10:	67.15	34.26	69.09	86.39	77.69	74.59	72.06	70.99	76.72	74.38	75.32		71.17	
PHEND10:	88.72	30.90	92.28	97.35	88.91	87.08	90.48	91.61	94.10	93.72	88.92		93.80	
CHRYD12:	86.02	33.67	89.35	93.44	91.84	94.45	84.21	85.70	100.92	97.49	81.78		86.05	
PERYD12:	66.57	67.79	62.06	58.25	64.08	55.46	68.37	55.28	66.47	66.04	71.23		54.32	

Sample ID Key: Numbers 600 - 799 are dry deposition, 800 - 999 are wet dep, "D"=dry dep, "W"=wet dep, "O"=PAH sample, "N"=Nahant, "T"=Truro. See Sample Log (Appendix A-1) for more details.

INVEST#:	LAB REF OIL	
ID:	-700	
LABSAMNO:	W28571	
UNIT:	ng/AMPULE	
Analyte (Cont)	Conc	DB QUAL
2-METHYLNAPH	1139.00	
1-METHYLNAPH	919.10	
2,6-DIMETHNAPH	694.11	
2,3,5-TRIMETHNAPH	349.59	
1-METHYLPHEN	154.19	
Surrogate Recoveries		
NAPHD8:	68.37	
ACEND10:	86.80	
PHEND10:	110.03	
CHRYD12:	107.07	
PERYD12:	99.74	

Sample ID Key: Numbers 600 - 799 are dry deposition, 800 - 999 are wet dep, "D"=dry dep, "W"=wet dep, "O"=PAH sample, "N"=Nahant, "T"=Truro. See Sample Log (Appendix A-1) for more details.

INVEST#:	0	0	0	0	0	0	0	0	0	0	0	0	0	PROC BLANK		SPIKED B
ID:	888WON	876WON	662DOT	664DON	874WOT	670DOT	696DON	882WOT	896WON	878WOT	892WON	684DON	674DOT	-900		-901
LABSAMNO:	C11377	C11378	C11379	C11380	C11381	C11383	C11384	C11385	C11386	C11387	C11388	C11389	C11390	Q5871		Q5872
UNIT:	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L		%
Analyte (Cont)	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	DB QUAL	% Recov
2-METHYLNAPH	7.37	5.22	38.35	10.83	40.89	33.83	1143.65	26.30	152.78	40.72	33.65	42.48	535.59	3.86		112.9
1-METHYLNAPH	5.49	3.89	24.42	6.93	44.44	22.05	717.34	21.57	97.95	44.44	22.13	30.77	507.83	3.87		115.8
2,6-DIMETHNAPH	2.06	1.43	8.07	2.42	4.60	8.74	769.37	3.91	45.45	5.72	6.79	12.49	201.97	1.82		83.1
2,3,5-TRIMETHNAPH	1.50	1.03	4.73	1.94	2.04	5.80	5921.98	1.67	43.48	2.25	4.39	16.27	194.35	2.02		105.5
1-METHYLPHEN	1.98	1.88	11.04	7.45	0.95	10.10	604.38	3.59	39.49	1.16	13.25	61.62	230.97	1.69		72.3
Surrogate Recoveries																
NAPHD8:	101.57	88.39	95.21	89.69	103.74	96.67	105.70	91.03	114.08	93.73	104.92	90.93	59.24	109.84		100.25
ACEND10:	101.23	91.56	96.25	95.77	202.15	102.63	34.99	134.31	106.99	176.22	113.21	95.02	66.42	111.41		103.67
PHEND10:	100.30	94.31	102.46	95.05	111.84	106.70	109.47	96.78	115.89	97.74	105.61	104.89	92.75	106.29		118.75
CHRYD12:	93.88	96.31	91.71	94.68	106.13	102.72	99.90	99.24	111.57	87.05	115.61	103.37	88.45	101.65		109.25
PERYD12:	31.24	35.96	72.55	55.08	40.97	66.42	2.83	41.35	29.42	37.93	58.87	44.17	39.44	5.34		10.11

Sample ID Key: Numbers 600 - 799 are dry deposition, 800 - 999 are wet dep. "D"=dry dep, "W"=wet dep, "O"=PAH sample, "N"=Nahant, "T"=Truro. See Sample Log (Appendix A-1) for more details.

INVEST#:	LANK	LAB REF OIL	
ID:		-700	
LABSAMNO:		W29146	
UNIT:		ng/L	
Analyte (Cont)	DB QUAL	Conc	DB QUAL
2-METHYLNAPH		1318.36	
1-METHYLNAPH		1110.31	
2,6-DIMETHNAPH		650.35	
2,3,5-TRIMETHNAPH		409.48	
1-METHYLPHEN		165.40	
Surrogate Recoveries			
NAPHD8:		104.13	
ACEND10:		114.86	
PHEND10:		121.51	
CHRYD12:		123.00	
PERYD12:		91.75	

Sample ID Key: Numbers 600 - 799 are dry deposition, 800 - 999 are wet dep. "D"=dry dep, "W"=wet dep, "O"=PAH sample, "N"=Nahant, "T"=Truro. See Sample Log (Appendix A-1) for more details.

INVEST#:	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ID:	692DON	678DOT	908WON	906WOT	710DOT	712DON	704DON	708DON	912WON	706DOT	898WOT	910WOT	698DOT	904WON	690DOT	880WON
LABSAMNO:	C12506	C12507	C12508	C12509	C12510	C12511	C12512	C12513	C12514	C12515	C12516	C12517	C12518	C12519	C12520	C12521
UNIT:	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L
Analyte (Cont)	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc
2-METHYLNAPH	119.14	2012.29	10.30	1418.90	15.81	14.58	8.39	12.81	10.39	12.86	39.11	2.67	7.64	11.62	6.18	101.94
1-METHYLNAPH	94.15	1016.57	23.41	657.12	9.22	10.18	1.88	9.89	7.19	10.84	50.85	3.12	3.80	5.53	6.13	110.61
2,6-DIMETHNAPH	73.27	211.06	11.57	695.76	8.92	13.58	4.87	18.34	1.77	1.60	26.30	1.44	2.05	3.42	6.10	60.19
2,3,5-TRIMETHNAPH	64.20	239.38	9.58	205.16	4.83	4.83	3.83	4.02	1.08	8.11	10.07	3.94	1.05	1.87	1.84	65.46
1-METHYLPHEN	143.71	764.89	22.95	191.63	5.65	24.11	3.36	50.37	3.34	10.08	29.15	0.81	5.08	11.09	24.58	106.66
Surrogate Recoveries																
NAPHD8:	108.53	118.19	46.27	9.15	49.33	51.45	80.41	81.94	35.86	68.34	51.93	21.40	57.96	78.57	31.97	76.59
ACEND10:	85.80	47.07	69.82	21.15	68.92	47.62	84.12	107.69	38.62	64.70	57.84	14.26	57.63	68.40	20.81	69.38
PHEND10:	119.32	86.17	45.51	14.27	63.81	34.12	82.70	78.68	42.41	64.67	53.02	20.65	57.10	70.66	23.56	66.05
CHRYD12:	152.00	111.79	89.93	85.43	110.38	88.43	91.17	132.58	43.18	61.29	51.09	30.66	53.69	64.12	32.54	66.73
PERYD12:	101.83	37.59	39.08	20.37	86.60	64.47	78.92	61.79	62.74	82.82	81.04	24.12	76.75	88.62	61.93	77.50

Sample ID Key: Numbers 600 - 799 are dry deposition, 800 - 999 are wet dep. "D"=dry dep, "W"=wet dep, "O"=PAH sample, "N"=Nahant, "T"=Truro. See Sample Log (Appendix A-1) for more details.

INVEST#:	0	0	0	0	0	0	0	0	0	0	PROC BLANK		SPIKED BLANK		PROC BLANK	
ID:	696DON	682DOT	686DOT	688DON	884WON	702DON	896WON	886WOT	890WOT	902WON	-900		-901		-900	
LABSAMNO:	C12522	C12523	C12524	C12525	C12526	C12527	C12528	C12529	C12530	C12531	Q6933		Q6934		Q6944	
UNIT:	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L		%		ng/L	
Analyte (Cont)	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	DB QUAL	% Recov	DB QUAL	Conc	DB QUAL
2-METHYLNAPH	2217.69		448.43	134.51	8.05	864.17	50.74	15.26	16.98	8.75	7.15		105.6		2.04	
1-METHYLNAPH	700.69		144.98	120.06	4.13	201.83	73.46	11.35	18.19	13.45	7.16		71.9		3.06	
2,6-DIMETHNAPH	476.60		114.53	57.95	6.39	149.55	50.99	3.46	4.44	9.71	13.92		102.5		3.66	
2,3,5-TRIMETHNAPH	83.31		96.67	31.73	7.76	93.63	67.36	0.88	8.21	4.68	9.74		103.6		2.98	
1-METHYLPHEN	319.59		123.45	208.49	3.82	193.73	13.69	3.21	5.77	4.25	3.13		78.3		2.39	
Surrogate Recoveries																
NAPHD8:	52.55		62.96	70.28	111.00	48.03	88.17	83.90	99.75	73.83	55.69		73.34		17.10	
ACEND10:	54.03		56.08	68.09	81.24	42.13	63.35	140.08	150.74	88.85	63.91		61.69		20.22	
PHEND10:	81.83		69.13	77.86	77.12	57.52	68.33	75.84	91.70	94.94	65.26		87.48		15.92	
CHRYD12:	79.74		57.59	72.83	79.69	61.73	66.12	73.81	130.69	121.95	94.51		80.38		14.33	
PERYD12:	13.65		1.99	31.98	16.19	5.51	25.92	32.22	125.55	102.45	14.92		35.22		55.66	

Sample ID Key: Numbers 600 - 799 are dry deposition, 800 - 999 are wet dep. "D"=dry dep, "W"=wet dep, "O"=PAH sample, "N"=Nahant, "T"=Truro. See Sample Log (Appendix A-1) for more details.

INVEST#:	SPIKED BLANK		PROC BLANK		SPIKED BLANK		PROC BLANK		SPIKED BLANK		LAB ref oil		LAB ref oil		LAB ref oil	
ID:	-901		-900		-901		-900		-901		-700		-700		-700	
LABSAMNO:	Q6945		Q6956		Q6957		Q6958		Q6959		W29793		W29885		W29947	
UNIT:	%		ng/L		%		ng/L		%		ng/L		ng/L		ng/L	
Analyte (Cont)	% Recov	DB QUAL	Conc	DB QUAL	% Recov	DB QUAL	Conc	DB QUAL	% Recov	DB QUAL	Conc	DB QUAL	Conc	DB QUAL	Conc	DB QUAL
2-METHYLNAPH	110.6		3.92		117.1		14.63		124.3		1348.70		1146.15		986.85	
1-METHYLNAPH	100.8		4.20		109.0		10.70		99.2		1086.23		914.37		781.11	
2,6-DIMETHNAPH	87.4		1.22		87.7		13.81		79.7		735.90		772.16		796.64	
2,3,5-TRIMETHNAPH	109.1		3.21		86.6		17.29		98.2		475.84		429.28		436.62	
1-METHYLPHEN	77.7		1.83		74.7		12.08		102.2		186.28		173.08		199.47	
Surrogate Recoveries																
NAPHD8:	41.74		78.79		85.28		42.83		81.59		77.25		89.75		96.54	
ACEND10:	39.18		78.00		93.79		35.57		89.44		85.67		86.78		87.58	
PHEND10:	40.76		77.16		94.40		69.45		100.13		91.40		91.05		113.96	
CHRYD12:	34.64		71.57		80.70		83.94		128.25		84.21		82.87		170.66	
PERYD12:	71.72		2.97		5.00		86.39		79.50		92.83		87.47		112.67	

Sample ID Key: Numbers 600 - 799 are dry deposition, 800 - 999 are wet dep. "D"=dry dep, "W"=wet dep, "O"=PAH sample, "N"=Nahant, "T"=Truro. See Sample Log (Appendix A-1) for more details.

INVEST#:	LAB ref oil	
ID:	-700	
LABSAMNO:	W29950	
UNIT:	ng/L	
Analyte (Cont)	Conc	DB QUAL
2-METHYLNAPH	1193.01	
1-METHYLNAPH	995.45	
2,6-DIMETHNAPH	575.03	
2,3,5-TRIMETHNAPH	308.78	
1-METHYLPHEN	198.31	
Surrogate Recoveries		
NAPHD8:	51.90	
ACEND10:	88.66	
PHEND10:	76.62	
CHRYD12:	112.64	
PERYD12:	116.32	

Sample ID Key: Numbers 600 - 799 are dry deposition, 800 - 999 are wet dep. "D"=dry dep, "W"=wet dep, "O"=PAH sample, "N"=Nahant, "T"=Truro. See Sample Log (Appendix A-1) for more details.

Nahant PM-10 Fine Sample mass (ng)

Sample ID	033	035	037	039	042, 043	047		042	043
Date	3/16/93	4/14/93	5/13/93	6/9/93	7/7/93	8/18/93		7/7/93	7/7/93
Time (hrs)	337	313.92	311.58	334.25	354.08	335.58		354.08	354.08
Acenaphthene	1.87	1.79	1.96	2.03	4.02	4.59		2.18	1.84
Acenaphthylene	1.07	0.46	1.32	2.16	1.95	0.92		1.54	0.41
Anthracene	7.05	4.08	3.1	3.23	5.24	7.07		2.73	2.51
Benzo[GHI]perylene	24.12	8.43	3.98	3.76	12.92	10.15		10.12	2.8
Biphenyl	3.53	2.41	3.42	4.91	7.17	3.64		4.11	3.06
Chrysene	3.66	1.19	1.74	4.1	2.74	2.24		2.02	0.72
Dibenzothiophene	1.09	0.48	0.83	0.43	1.34	2.05		0.45	0.89
Fluoranthene	31.06	11.45	5.81	13.11	18.94	17.42		13.91	5.03
Fluorene	4.39	2.45	1.63	0.8	3.38	2.43		1.94	1.44
Naphthylene	23.85	17.96	14.47	12.53	32.51	32.58		16.85	15.66
Perylene	2.25	1.78	1.14	0.6	2.99	1.89		1.92	1.07
Phenanthrene	4.48	3.32	3.75	4.22	9.34	7.71		4.62	4.72
Pyrene	35.68	14.65	10.61	15.32	25.06	17.36		17.98	7.08
Total Aromatics	141.85	68.67	52.62	66.6	124.61	108.16		78.45	46.16

Nahant PM-10 Coarse sample mass (ng)

Sample ID	333	335	337	339	342, 343	347		342	343
Date	3/16/93	4/14/93	5/13/93	6/9/93	7/7/93	8/18/93		7/7/93	7/7/93
Time (hrs)	337	313.92	311.58	334.25	354.08	335.58		354.08	354.08
Acenaphthene	2.65	1.33	0.98	0.58	4.67	1.71		1.83	2.84
Acenaphthylene	0.99	0.8	0.68	0.37	3.81	1.14		2.05	1.76
Anthracene	3.51	4.48	2.47	2.97	7.17	3.96		4.57	2.6
Benzo[GHI]perylene	2.85	3.52	1.24	5.59	7.77	3.5		5.1	2.67
Biphenyl	2.62	2.28	1.84	4.92	6.73	2.26		2.29	4.44
Chrysene	2.43	4	1.17	1.98	5.8	3.68		3.77	2.03
Dibenzothiophene	1.11	0.62	0.55	0.53	1.54	0.74		1.09	0.45
Fluoranthene	9.28	13.2	4.02	10.15	15	12.83		7.92	7.08
Fluorene	1.48	1.59	0.94	1.5	4.31	1.48		2.13	2.18
Naphthylene	20.43	13.88	11.91	16.63	23.99	13.8		10.7	13.29
Perylene	15.08	1.79	0.73	2.19	3.88	1.25		2.66	1.22
Phenanthrene	5.02	4.51	2.58	4.57	6.66	3.98		2.57	4.09
Pyrene	9.36	14.34	5.41	11.73	21.01	13.21		10.77	10.24
Total Aromatics	61.73	64.55	33.79	61.52	108.46	62.29		54.79	53.67

Appendix A-11

PM-10 Concentrations

Appendix Order:

INAA Concentrations (Metals Only)

PM-10 Deposition Samples (INAA)

Nahant Atmospheric Concentration of Fine Particles (ng/m3)

Sample ID	001, 002	008, 009	014, 016	020, 021	024	026	028	030	032	034
Start Date	7/22/92	8/19/92	9/16/92	10/14/92	11/10/92	12/7/92	1/6/93	2/2/93	3/2/93	3/30/93
Time (hrs)	360	335.2	206.1	312.2	317.1	117	335.2	207.3	335.5	357.8
Precip.(in)	1.07	0.03	1.09	0.66	3.22	7.99	0.81	3.24	1.77	2.65
Fe	8.4E+01	1.5E+02	4.0E+01	6.5E+00	9.4E+00	2.0E+03	ND	3.3E+01	7.6E+02	3.3E+01
Na	7.8E+01	1.4E+02	9.4E+01	7.8E+01	3.1E+01	5.4E+02	2.2E+02	3.0E+02	5.9E+01	3.9E+02
K	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cs	ND	ND	ND	ND	ND	ND	ND	ND	1.1E-01	ND
Sc	2.1E-03	7.1E-03	4.3E-03	1.4E-03	9.4E-04	6.2E-01	4.4E-03	2.9E-03	2.3E-01	4.1E-03
Cr	4.4E+00	7.5E+00	2.7E+00	4.9E-01	3.5E-01	4.7E+00	1.0E+00	5.3E-01	1.8E+00	1.1E+00
Co	1.9E-01	5.0E-01	5.9E-01	3.8E-03	9.4E-03	6.6E-01	1.3E-02	ND	2.4E-01	4.3E-02
Zn	5.7E+00	3.0E+01	1.9E+01	1.0E+00	ND	5.6E+00	ND	ND	1.4E+00	1.5E+00
Ag	7.9E-02	ND	ND	ND	ND	ND	ND	1.1E-01	ND	ND
Br	ND	ND	8.6E-01	ND	ND	ND	ND	ND	ND	ND
As	3.9E-01	1.1E+00	3.7E-01	ND	8.9E-02	ND	ND	ND	ND	1.5E-01
Sb	3.5E-01	7.8E-01	3.9E-01	8.8E-02	6.9E-02	ND	4.0E-02	2.5E-02	2.5E-01	1.3E-01
Se	6.2E-01	1.3E+00	1.0E+00	3.5E-01	2.4E-01	ND	3.7E-02	ND	ND	ND
La	4.2E-02	1.2E-01	7.2E-02	ND	ND	8.8E-02	ND	ND	ND	ND
Ce	ND	ND	ND	ND	ND	ND	5.2E-01	ND	ND	ND
Nd	ND	ND	ND	ND	ND	ND	3.0E-01	ND	ND	ND
Sm	3.6E-02	4.6E-02	4.4E-02	ND	ND	ND	7.8E-02	3.7E-02	ND	5.7E-02
Eu	ND	ND	ND	ND	ND	1.1E-01	1.5E-02	ND	4.8E-02	ND
Gd	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tb	ND	ND	ND	ND	ND	ND	9.7E-03	ND	ND	ND
Tm	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Yb	ND	9.7E-03	3.6E-03	ND	ND	1.8E-02	1.8E-02	ND	1.3E-03	ND
Hf	ND	ND	ND	ND	ND	ND	5.0E-02	ND	ND	ND
Ta	9.9E-03	ND	ND	ND	ND	ND	9.3E-03	ND	ND	ND
Ir	3.6E-02	3.1E-03	ND	ND	ND	1.4E-02	1.3E-03	ND	4.9E-03	ND
Th	ND	ND	ND	ND	ND	4.9E-01	1.2E-01	ND	2.1E-01	ND
Rb	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Mass	11862.8	18293.7	15801.9	0.00878	0.00624	0.0066	0.0028	0.00738	0.00296	0.00769

PM-10 Deposition Samples (INAA)

Nahant Atmospheric Concentration of Fine Particles (ng/m3)

Sample ID	036	038	040	044	045, 046	049
Start Date	4/27/93	5/26/93	6/23/93	7/22/93	8/4/93	9/1/93
Time (hrs)	382	337.6	339.5	315	334.1	308.6
Precip.(in)	0.12	1.25	0.26	0.97	0.63	1.46
Fe	5.1E+01	2.7E+01	4.8E+01	4.0E+01	1.2E+02	5.7E+01
Na	5.2E+02	2.9E+02	1.5E+02	4.3E+02	6.6E+02	5.1E+02
K	ND	ND	ND	ND	ND	ND
Cs	ND	ND	ND	ND	ND	ND
Sc	7.0E-03	3.5E-03	4.8E-03	4.2E-03	1.7E-02	9.6E-03
Cr	9.0E-01	1.4E+00	7.2E-01	2.5E+00	7.0E-01	5.9E-01
Co	5.6E-02	ND	3.7E-02	4.7E-02	4.5E-02	1.5E-02
Zn	7.0E+00	1.1E+00	7.0E+00	1.1E+01	5.0E+00	1.6E+00
Ag	ND	ND	ND	ND	2.2E-02	ND
Br	ND	ND	1.7E+00	1.8E+00	2.5E+00	2.0E+00
As	ND	8.0E-02	3.4E-01	2.4E-01	ND	ND
Sb	1.8E-01	7.2E-02	4.7E-01	2.1E-01	1.1E-01	7.2E-02
Se	3.0E-01	1.8E-01	3.9E-01	5.1E-01	ND	4.5E-02
La	ND	ND	ND	ND	1.2E-01	5.8E-02
Ce	6.3E-01	ND	ND	ND	ND	ND
Nd	4.0E-01	ND	ND	ND	ND	ND
Sm	5.8E-02	ND	4.4E-03	ND	1.4E-02	9.5E-03
Eu	1.6E-02	8.8E-04	ND	ND	ND	4.5E-03
Gd	ND	ND	ND	ND	ND	ND
Tb	7.4E-03	ND	ND	ND	ND	2.4E-03
Tm	ND	ND	ND	ND	ND	ND
Yb	2.2E-02	ND	ND	ND	2.8E-03	ND
Hf	5.8E-02	ND	ND	ND	ND	ND
Ta	7.8E-03	ND	ND	ND	ND	ND
Ir	2.3E-03	ND	ND	ND	ND	ND
Th	1.1E-01	ND	ND	ND	ND	ND
Rb	ND	ND	ND	ND	ND	ND
Total Mass	0.01069	0.01214	0.01428	0.01725	0.00728	0.00796

PM-10 Deposition Samples (INAA)

Nahant Atmospheric Concentration of Coarse Particles (ng/m3)

Sample ID	300, 301	309, 310	314, 317	320, 321	324	326	328	330	332	334
Start Date	7/22/92	8/19/92	9/16/92	10/14/92	11/10/92	12/7/92	1/6/93	2/2/93	3/2/93	3/30/93
Time (hrs)	360	335.2	206.1	312.2	317.1	117	335.2	207.3	335.5	357.8
Precip.(in)	1.07	0.03	1.09	0.66	3.22	7.99	0.81	3.24	1.77	2.65
Fe	1.5E+02	3.0E+02	1.2E+02	2.1E+01	1.9E+01	2.6E+03	1.7E+01	1.4E+01	ND	2.4E+01
Na	7.3E+02	6.3E+02	2.2E+02	5.4E+02	9.9E+01	3.4E+02	8.8E+01	1.2E+02	1.1E+02	3.0E+02
K	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cs	ND	ND	ND	ND	ND	4.9E-01	ND	ND	ND	ND
Sc	2.8E-02	4.4E-02	2.2E-02	3.3E-03	2.3E-03	7.7E-01	1.3E-03	2.1E-03	1.8E-03	3.7E-03
Cr	6.0E-01	2.5E+00	8.0E-01	2.6E-01	2.2E-01	5.4E+00	3.1E-01	4.3E-01	7.6E-01	1.2E-01
Co	1.2E-01	5.2E-01	8.5E-01	ND	1.2E-01	6.9E-01	4.0E-02	2.1E-02	2.0E-02	ND
Zn	2.1E+01	1.9E+01	8.4E+00	1.4E-01	ND	1.0E+01	5.1E+00	ND	4.4E-01	ND
Ag	ND	ND	ND	ND	ND	ND	8.1E-02	7.1E-01	ND	ND
Br	1.2E+00	3.3E-01	4.2E-01	ND	ND	ND	ND	ND	ND	ND
As	ND	2.6E-01	1.3E-01	ND	ND	ND	7.1E-02	ND	1.2E-01	ND
Sb	2.9E-01	4.3E-01	2.6E-01	3.8E-02	2.5E-02	ND	1.1E-01	1.5E-01	8.8E-02	6.9E-02
Se	ND	4.1E-01	2.9E-01	6.2E-02	9.9E-02	ND	2.5E-01	2.7E-01	ND	ND
La	1.7E-01	2.3E-01	9.0E-02	ND	ND	1.2E-01	ND	ND	ND	ND
Ce	1.7E-01	2.1E-01	ND	ND	ND	ND	ND	ND	ND	ND
Nd	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Sm	4.1E-02	3.9E-02	1.6E-02	4.3E-03	ND	ND	ND	ND	ND	ND
Eu	5.8E-03	1.1E-02	ND	1.4E-03	1.4E-03	ND	ND	7.2E-04	ND	ND
Gd	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tb	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tm	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Yb	7.0E-03	8.4E-03	6.5E-03	9.0E-03	ND	ND	ND	ND	ND	ND
Hf	ND	2.7E-03	ND	4.8E-04	ND	ND	ND	ND	ND	8.3E-04
Ta	1.7E-02	1.5E-02	1.0E-02	ND	ND	ND	1.5E-02	ND	ND	2.5E-03
Ir	ND	8.9E-04	2.9E-03	ND	ND	1.6E-02	ND	ND	ND	ND
Th	4.9E-02	3.4E-02	ND	ND	ND	7.4E-01	ND	ND	ND	ND
Rb	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Mass	101417	108266	61508.6	0.11336	0.03855	0.03724	0.07067	0.08111	0.03042	0.06661

PM-10 Deposition Samples (INAA)

Nahant Atmospheric Concentration of Coarse Particles (ng/m3)

Sample ID	336	338	340	344	345, 346	349
Start Date	4/27/93	5/26/93	6/23/93	7/22/93	8/4/93	9/1/93
Time (hrs)	382	337.6	339.5	315	334.1	308.6
Precip.(in)	0.12	1.25	0.26	0.97	0.63	1.46
Fe	6.1E+01	4.7E+01	1.2E+02	9.6E+01	5.2E+01	3.9E+01
Na	9.8E+02	1.4E+02	4.9E+02	7.0E+02	4.5E+02	2.4E+02
K	ND	ND	ND	ND	ND	ND
Cs	ND	ND	ND	ND	ND	ND
Sc	1.4E-02	1.1E-02	2.1E-02	1.6E-02	4.0E-03	3.8E-03
Cr	9.0E-01	2.6E-01	8.4E-01	1.0E+00	1.6E+00	1.5E+00
Co	3.8E-02	ND	3.7E-02	4.5E-02	4.2E-02	4.8E-02
Zn	ND	ND	4.4E+00	3.6E+00	9.9E+00	6.1E+00
Ag	2.6E-02	ND	ND	ND	ND	ND
Br	ND	ND	1.9E+00	1.9E+00	1.7E+00	1.3E+00
As	ND	ND	ND	ND	1.8E-01	1.9E-01
Sb	ND	9.7E-02	3.1E-01	1.4E-01	3.3E-01	1.7E-01
Se	1.3E-01	ND	7.7E-02	2.2E-01	2.0E-01	3.2E-01
La	2.4E-01	1.8E-03	1.7E-02	1.1E-01	1.8E-01	6.2E-02
Ce	6.3E-01	ND	2.2E-03	4.9E-02	ND	ND
Nd	ND	ND	ND	ND	ND	ND
Sm	6.2E-02	1.0E-02	2.9E-02	1.1E-02	ND	7.3E-03
Eu	1.7E-02	1.8E-03	5.0E-03	3.1E-03	ND	ND
Gd	ND	ND	ND	ND	ND	ND
Tb	1.4E-02	ND	3.4E-03	1.6E-03	ND	ND
Tm	ND	ND	ND	ND	ND	ND
Yb	1.9E-02	ND	ND	ND	3.4E-03	ND
Hf	5.1E-02	1.3E-03	ND	ND	ND	ND
Ta	7.0E-03	2.2E-03	ND	ND	ND	6.3E-03
Ir	1.6E-03	ND	ND	ND	ND	ND
Th	1.3E-01	1.2E-02	2.6E-02	ND	ND	ND
Rb	ND	ND	ND	ND	ND	ND
Total Mass	0.13213	0.09987	0.10207	0.13043	0.09488	0.09666