

Arthur D. Little, Inc.

Environmental Monitoring and Analysis

Minerals Management Service - Shelikof Strait and Outermost Cook Inlet

1997 Final Data (Not Surrogate Corrected) - Sediment Core - METALS

Field ID	98-0-F1-04-00-MET-SC	98-0-F1-04-05-MET-SC	98-0-F1-04-10-MET-SC	98-0-F1-04-10-MET-SC
Lab ID	98-0-F1-04-00-MET-SC	98-0-F1-04-05-MET-SC	98-0-F1-04-10-MET-SC #1	98-0-F1-04-10-MET-SC #2
SDG	NA	NA	NA	NA
File	NA	NA	NA	NA
Sample Type	SAMP	SAMP	SAMP	QC
Matrix	Sediment Core	Sediment Core	Sediment Core	Sediment Core
Sample Size	0.4559 g	0.4552 g	0.4976 g	0 g
Weight Basis	DRY	DRY	DRY	DRY
Associated Blank	NA	NA	NA	NA
Field Date	7/3/1998	7/3/1998	7/3/1998	7/3/1998
Extract Date	7/21/1998	7/21/1998	7/21/1998	7/21/1998
Analysis Date	7/21/1998	7/21/1998	7/21/1998	7/21/1998
Min Reporting Limit	NA	NA	NA	NA
Units	---	---	---	---

METALS				
Ag - Silver (ug/g)	0.08	0.07	0.08	NA
Al - Aluminum (%)	7.77	7.92	8	NA
As - Arsenic (ug/g)	13	9.5	10.6	NA
Ba - Barium (ug/g)	863	856	866	NA
Be - Beryllium (ug/g)	1.4	1.4	1.2	NA
Ca - Calcium (%)	NA	NA	NA	NA
Cd - Cadmium (ug/g)	0.1	0.1	0.1	NA
Cr - Chromium (ug/g)	92.6	82.6	88	NA
Cu - Copper (ug/g)	50.3	49.2	49.5	NA
Fe - Iron (%)	4.78	4.72	4.73	NA
Hg - Mercury (ug/g)	0.123	0.127	0.115	0.119
K - potassium (%)	NA	NA	NA	NA
Mg - Magnesium (%)	NA	NA	NA	NA
Mn - Manganese (ug/g)	802	783	790	NA
Ni - Nickel (ug/g)	49.9	48.7	50	NA
Pb - Lead (ug/g)	13.9	13.5	13.9	NA
Sb - Antimony (ug/g)	1.51	1.44	1.48	NA
Se - Selenium (ug/g)	0.41	0.69	0.56	NA
Sn - Tin (ug/g)	1.4	1.64	1.4	NA
Tl - Thallium (ug/g)	0.45	0.44	0.45	NA
V - Vanadium (ug/g)	155	167	175	NA
Zn - Zinc (ug/g)	125	118	114	NA

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Field ID	98-0-F1-04-15-MET-SC	98-0-F1-04-20-MET-SC	98-0-F1-04-50-MET-SC	98-0-F1-04-80-MET-SC
Lab ID	98-0-F1-04-15-MET-SC	98-0-F1-04-20-MET-SC	98-0-F1-04-50-MET-SC	98-0-F1-04-80-MET-SC
SDG	NA	NA	NA	NA
File	NA	NA	NA	NA
Sample Type	SAMP	SAMP	SAMP	SAMP
Matrix	Sediment Core	Sediment Core	Sediment Core	Sediment Core
Sample Size	0.4582 g	0.4761 g	0.4802 g	0.4793 g
Weight Basis	DRY	DRY	DRY	DRY
Associated Blank	NA	NA	NA	NA
Field Date	7/3/1998	7/3/1998	7/3/1998	7/3/1998
Extract Date	7/21/1998	7/21/1998	7/21/1998	7/21/1998
Analysis Date	7/21/1998	7/21/1998	7/21/1998	7/21/1998
Min Reporting Limit	NA	NA	NA	NA
Units	---	---	---	---

METALS				
Ag - Silver (ug/g)	0.08	0.08	0.07	0.06
Al - Aluminum (%)	7.73	7.97	7.9	7.78
As - Arsenic (ug/g)	10.7	11.6	11.3	10.2
Ba - Barium (ug/g)	864	865	868	865
Be - Beryllium (ug/g)	1.3	1.3	1.3	1.3
Ca - Calcium (%)	NA	NA	NA	NA
Cd - Cadmium (ug/g)	0.11	0.11	0.11	0.12
Cr - Chromium (ug/g)	90.5	92	89.6	86.5
Cu - Copper (ug/g)	48.9	50.5	52.4	52.5
Fe - Iron (%)	4.62	4.88	4.9	4.85
Hg - Mercury (ug/g)	0.136	0.131	0.133	0.125
K - potassium (%)	NA	NA	NA	NA
Mg - Magnesium (%)	NA	NA	NA	NA
Mn - Manganese (ug/g)	758	807	838	839
Ni - Nickel (ug/g)	50.2	50.7	51.3	49.7
Pb - Lead (ug/g)	13.8	14	13.6	13.3
Sb - Antimony (ug/g)	1.47	1.5	1.59	1.75
Se - Selenium (ug/g)	0.45	0.47	0.47	0.43
Sn - Tin (ug/g)	1.35	1.36	1.45	1.28
Tl - Thallium (ug/g)	0.45	0.45	0.45	0.44
V - Vanadium (ug/g)	166	177	170	170
Zn - Zinc (ug/g)	118	119	118	119

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1997 Final Data (Not Surrogate Corrected) - Sediment Core - METALS

Field ID	98-0-F1-04-105-MET-SC	98-0-F1-04-140-MET-SC	98-0-F1-04-175-MET-SC	98-0-F1-04-175-MET-SC
Lab ID	98-0-F1-04-105-MET-SC	98-0-F1-04-140-MET-SC	98-0-F1-04-175-MET-SC #1	98-0-F1-04-175-MET-SC #2
SDG	NA	NA	NA	NA
File	NA	NA	NA	NA
Sample Type	SAMP	SAMP	SAMP	QC
Matrix	Sediment Core	Sediment Core	Sediment Core	Sediment Core
Sample Size	0.4603 g	0.4789 g	0.4551 g	0 g
Weight Basis	DRY	DRY	DRY	DRY
Associated Blank	NA	NA	NA	NA
Field Date	7/3/1998	7/3/1998	7/3/1998	7/3/1998
Extract Date	7/21/1998	7/21/1998	7/21/1998	NA
Analysis Date	7/21/1998	7/21/1998	7/21/1998	NA
Min Reporting Limit	NA	NA	NA	NA
Units	---	---	---	---

METALS				
Ag - Silver (ug/g)	0.09	0.07	0.09	NA
Al - Aluminum (%)	7.97	7.27	7.78	NA
As - Arsenic (ug/g)	10.9	10.8	12	NA
Ba - Barium (ug/g)	915	827	861	NA
Be - Beryllium (ug/g)	1.4	1.2	1.3	NA
Ca - Calcium (%)	NA	NA	NA	NA
Cd - Cadmium (ug/g)	0.12	0.11	0.11	NA
Cr - Chromium (ug/g)	96.8	89.8	94.5	NA
Cu - Copper (ug/g)	58.3	49.1	51.6	NA
Fe - Iron (%)	4.92	4.42	4.72	NA
Hg - Mercury (ug/g)	0.148	0.122	0.131	NA
K - potassium (%)	NA	NA	NA	NA
Mg - Magnesium (%)	NA	NA	NA	NA
Mn - Manganese (ug/g)	894	764	804	NA
Ni - Nickel (ug/g)	52.6	46.4	49	NA
Pb - Lead (ug/g)	13.8	12.5	13.1	NA
Sb - Antimony (ug/g)	1.92	1.52	1.62	NA
Se - Selenium (ug/g)	0.54	0.28	0.45	NA
Sn - Tin (ug/g)	1.36	1.22	1.22	NA
Tl - Thallium (ug/g)	0.46	0.42	0.44	NA
V - Vanadium (ug/g)	183	153	167	NA
Zn - Zinc (ug/g)	120	109	115	NA

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1997 Final Data (Not Surrogate Corrected) - Sediment Core - METALS

Field ID	98-0-F1-04-200-MET-SC	98-0-F1-04-230-MET-SC	98-0-F8-02-00-MET-SC	98-0-F8-02-02-MET-SC
Lab ID	98-0-F1-04-200-MET-SC	98-0-F1-04-230-MET-SC	98-0-F8-02-00-MET-SC	98-0-F8-02-02-MET-SC
SDG	NA	NA	NA	NA
File	NA	NA	NA	NA
Sample Type	SAMP	SAMP	SAMP	SAMP
Matrix	Sediment Core	Sediment Core	Sediment Core	Sediment Core
Sample Size	0.4643 g	0.468 g	0.4604 g	0.4892 g
Weight Basis	DRY	DRY	DRY	DRY
Associated Blank	NA	NA	NA	NA
Field Date	7/3/1998	7/3/1998	7/2/1998	7/2/1998
Extract Date	7/21/1998	7/21/1998	7/21/1998	7/21/1998
Analysis Date	7/21/1998	7/21/1998	7/21/1998	7/21/1998
Min Reporting Limit	NA	NA	NA	NA
Units	---	---	---	---

METALS				
Ag - Silver (ug/g)	0.07	0.08	0.03	0.02
Al - Aluminum (%)	7.76	7.84	7.83	7.88
As - Arsenic (ug/g)	10.9	14.5	9.2	7.4
Ba - Barium (ug/g)	899	905	759	788
Be - Beryllium (ug/g)	1.4	1.3	1.2	1.4
Ca - Calcium (%)	NA	NA	NA	NA
Cd - Cadmium (ug/g)	0.13	0.12	0.08	0.11
Cr - Chromium (ug/g)	87.6	98.5	64.9	64.3
Cu - Copper (ug/g)	53	53.8	26.9	32.1
Fe - Iron (%)	4.75	4.91	4	4.06
Hg - Mercury (ug/g)	0.12	0.132	0.024	0.036
K - potassium (%)	NA	NA	NA	NA
Mg - Magnesium (%)	NA	NA	NA	NA
Mn - Manganese (ug/g)	807	860	854	860
Ni - Nickel (ug/g)	49.8	48.9	30.2	31.5
Pb - Lead (ug/g)	13.5	13.5	10.7	10.6
Sb - Antimony (ug/g)	1.63	1.71	0.68	0.76
Se - Selenium (ug/g)	0.43	0.52	0.19	0.13
Sn - Tin (ug/g)	1.33	1.43	1.08	1.21
Tl - Thallium (ug/g)	0.45	0.45	0.38	0.38
V - Vanadium (ug/g)	176	163	142	139
Zn - Zinc (ug/g)	119	118	84.4	97.8

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Field ID	98-0-F8-02-04-MET-SC	98-0-F8-02-06-MET-SC	98-0-F8-02-08-MET-SC	98-0-F8-02-10-MET-SC
Lab ID	98-0-F8-02-04-MET-SC	98-0-F8-02-06-MET-SC	98-0-F8-02-08-MET-SC	98-0-F8-02-10-MET-SC
SDG	NA	NA	NA	NA
File	NA	NA	NA	NA
Sample Type	SAMP	SAMP	SAMP	SAMP
Matrix	Sediment Core	Sediment Core	Sediment Core	Sediment Core
Sample Size	0.4629 g	0.4577 g	0.4591 g	0.4563 g
Weight Basis	DRY	DRY	DRY	DRY
Associated Blank	NA	NA	NA	NA
Field Date	7/2/1998	7/2/1998	7/2/1998	7/2/1998
Extract Date	7/21/1998	7/21/1998	7/21/1998	7/21/1998
Analysis Date	7/21/1998	7/21/1998	7/21/1998	7/21/1998
Min Reporting Limit	NA	NA	NA	NA
Units	---	---	---	---

METALS				
Ag - Silver (ug/g)	0.05	0.03	0.04	0.05
Al - Aluminum (%)	7.79	7.88	7.72	7.76
As - Arsenic (ug/g)	7.2	7.3	7.8	6.5
Ba - Barium (ug/g)	899	900	869	879
Be - Beryllium (ug/g)	1.4	1.5	1.4	1.5
Ca - Calcium (%)	NA	NA	NA	NA
Cd - Cadmium (ug/g)	0.13	0.13	0.12	0.12
Cr - Chromium (ug/g)	61.3	68.7	58.4	63.8
Cu - Copper (ug/g)	32.7	33.1	31.8	32
Fe - Iron (%)	3.85	3.8	3.88	3.84
Hg - Mercury (ug/g)	0.037	0.032	0.032	0.032
K - potassium (%)	NA	NA	NA	NA
Mg - Magnesium (%)	NA	NA	NA	NA
Mn - Manganese (ug/g)	751	739	757	721
Ni - Nickel (ug/g)	35.2	34.2	33.8	34.5
Pb - Lead (ug/g)	12.6	12.8	12.1	12.4
Sb - Antimony (ug/g)	0.96	1.01	0.89	0.94
Se - Selenium (ug/g)	0.27	0.3	0.21	0.21
Sn - Tin (ug/g)	3.88	1.41	1.41	1.26
Tl - Thallium (ug/g)	0.46	0.46	0.44	0.45
V - Vanadium (ug/g)	141	131	136	137
Zn - Zinc (ug/g)	100	108	91.1	91.7

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1997 Final Data (Not Surrogate Corrected) - Sediment Core - METALS

Field ID	98-0-F8-02-12-MET-SC	98-0-F8-02-14-MET-SC	98-0-F8-02-16-MET-SC	98-0-F8-02-20-MET-SC
Lab ID	98-0-F8-02-12-MET-SC	98-0-F8-02-14-MET-SC	98-0-F8-02-16-MET-SC	98-0-F8-02-20-MET-SC
SDG	NA	NA	NA	NA
File	NA	NA	NA	NA
Sample Type	SAMP	SAMP	SAMP	SAMP
Matrix	Sediment Core	Sediment Core	Sediment Core	Sediment Core
Sample Size	0.4613 g	0.4572 g	0.4706 g	0.4643 g
Weight Basis	DRY	DRY	DRY	DRY
Associated Blank	NA	NA	NA	NA
Field Date	7/2/1998	7/2/1998	7/2/1998	7/2/1998
Extract Date	7/21/1998	7/21/1998	7/21/1998	7/21/1998
Analysis Date	7/21/1998	7/21/1998	7/21/1998	7/21/1998
Min Reporting Limit	NA	NA	NA	NA
Units	---	---	---	---

METALS				
Ag - Silver (ug/g)	0.05	0.03	0.06	0.06
Al - Aluminum (%)	7.68	7.61	7.66	7.57
As - Arsenic (ug/g)	6.9	7.4	7.3	8
Ba - Barium (ug/g)	907	848	854	866
Be - Beryllium (ug/g)	1.5	1.5	1.5	1.5
Ca - Calcium (%)	NA	NA	NA	NA
Cd - Cadmium (ug/g)	0.12	0.12	0.11	0.1
Cr - Chromium (ug/g)	71.5	68.8	73.4	60
Cu - Copper (ug/g)	32.9	30.7	32.2	29.3
Fe - Iron (%)	3.7	3.77	3.91	3.59
Hg - Mercury (ug/g)	0.034	0.027	0.035	0.034
K - potassium (%)	NA	NA	NA	NA
Mg - Magnesium (%)	NA	NA	NA	NA
Mn - Manganese (ug/g)	714	700	738	696
Ni - Nickel (ug/g)	33.2	32.2	33.6	32.8
Pb - Lead (ug/g)	12.6	12	12.2	12
Sb - Antimony (ug/g)	0.98	0.98	0.92	0.92
Se - Selenium (ug/g)	0.23	0.26	0.17	0.14
Sn - Tin (ug/g)	1.51	1.23	1.2	1.2
Tl - Thallium (ug/g)	0.47	0.45	0.45	0.44
V - Vanadium (ug/g)	124	137	139	130
Zn - Zinc (ug/g)	94	91.5	88.9	84.5

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1997 Final Data (Not Surrogate Corrected) - Sediment Core - METALS

Field ID	98-2-16-02-00-MET-SC	98-2-16-02-01-MET-SC	98-2-16-02-02-MET-SC	98-2-16-02-03-MET-SC
Lab ID	98-2-16-02-00-MET-SC	98-2-16-02-01-MET-SC	98-2-16-02-02-MET-SC	98-2-16-02-03-MET-SC
SDG	NA	NA	NA	NA
File	NA	NA	NA	NA
Sample Type	SAMP	SAMP	SAMP	SAMP
Matrix	Sediment Core	Sediment Core	Sediment Core	Sediment Core
Sample Size	0.4564 g	0.4492 g	0.4502 g	0.4614 g
Weight Basis	DRY	DRY	DRY	DRY
Associated Blank	NA	NA	NA	NA
Field Date	7/1/1998	7/1/1998	7/1/1998	7/1/1998
Extract Date	8/20/1998	8/20/1998	8/20/1998	8/20/1998
Analysis Date	8/20/1998	8/20/1998	8/20/1998	8/20/1998
Min Reporting Limit	NA	NA	NA	NA
Units	---	---	---	---

METALS				
Ag - Silver (ug/g)	0.03	0.05	0.04	0.06
Al - Aluminum (%)	7.94	8.07	8.05	8.04
As - Arsenic (ug/g)	12	10.2	8.2	8.9
Ba - Barium (ug/g)	892	891	893	958
Be - Beryllium (ug/g)	1.4	1.3	1.3	1.4
Ca - Calcium (%)	NA	NA	NA	NA
Cd - Cadmium (ug/g)	0.1	0.11	0.12	0.13
Cr - Chromium (ug/g)	75.6	86.1	78.2	82.3
Cu - Copper (ug/g)	39.3	38.1	38	39.8
Fe - Iron (%)	4.63	4.56	4.48	4.44
Hg - Mercury (ug/g)	0.062	0.072	0.064	0.059
K - potassium (%)	NA	NA	NA	NA
Mg - Magnesium (%)	NA	NA	NA	NA
Mn - Manganese (ug/g)	1530	962	895	841
Ni - Nickel (ug/g)	37	36.4	35.9	38.3
Pb - Lead (ug/g)	13.8	13.5	13.4	14.5
Sb - Antimony (ug/g)	1	0.99	1	1.07
Se - Selenium (ug/g)	0.38	0.4	0.37	0.37
Sn - Tin (ug/g)	1.52	1.46	1.49	1.53
Tl - Thallium (ug/g)	0.45	0.44	0.45	0.48
V - Vanadium (ug/g)	149	151	151	153
Zn - Zinc (ug/g)	120	115	118	122

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Minerals Management Service - Shelikof Strait and Outermost Cook Inlet

1997 Final Data (Not Surrogate Corrected) - Sediment Core - METALS

Field ID	98-2-16-02-04-MET-SC	98-2-16-02-05-MET-SC	98-2-16-02-06-MET-SC	98-2-16-02-07-MET-SC
Lab ID	98-2-16-02-04-MET-SC	98-2-16-02-05-MET-SC	98-2-16-02-06-MET-SC	98-2-16-02-07-MET-SC
SDG	NA	NA	NA	NA
File	NA	NA	NA	NA
Sample Type	SAMP	SAMP	SAMP	SAMP
Matrix	Sediment Core	Sediment Core	Sediment Core	Sediment Core
Sample Size	0.4504 g	0.4506 g	0.4522 g	0.4542 g
Weight Basis	DRY	DRY	DRY	DRY
Associated Blank	NA	NA	NA	NA
Field Date	7/1/1998	7/1/1998	7/1/1998	7/1/1998
Extract Date	8/20/1998	8/20/1998	8/20/1998	8/20/1998
Analysis Date	8/20/1998	8/20/1998	8/20/1998	8/20/1998
Min Reporting Limit	NA	NA	NA	NA
Units	---	---	---	---

METALS				
Ag - Silver (ug/g)	0.05	0.05	0.04	0.05
Al - Aluminum (%)	8.05	8.04	8.01	8.17
As - Arsenic (ug/g)	7.9	8.4	9.1	9.1
Ba - Barium (ug/g)	927	908	926	922
Be - Beryllium (ug/g)	1.4	1.4	1.4	1.4
Ca - Calcium (%)	NA	NA	NA	NA
Cd - Cadmium (ug/g)	0.15	0.12	0.12	0.13
Cr - Chromium (ug/g)	84.3	78.1	82.4	79
Cu - Copper (ug/g)	38.9	38.9	38.7	38.6
Fe - Iron (%)	4.44	4.44	4.5	4.55
Hg - Mercury (ug/g)	0.067	0.065	0.06	0.066
K - potassium (%)	NA	NA	NA	NA
Mg - Magnesium (%)	NA	NA	NA	NA
Mn - Manganese (ug/g)	862	828	858	871
Ni - Nickel (ug/g)	35.8	35.4	36.7	36.4
Pb - Lead (ug/g)	13.9	13.7	14.2	14
Sb - Antimony (ug/g)	1.04	1.02	1.04	1.03
Se - Selenium (ug/g)	0.35	0.33	0.25	0.16
Sn - Tin (ug/g)	1.46	1.48	2.96	1.5
Tl - Thallium (ug/g)	0.46	0.45	0.47	0.46
V - Vanadium (ug/g)	145	151	150	149
Zn - Zinc (ug/g)	122	118	121	124

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1997 Final Data (Not Surrogate Corrected) - Sediment Core - METALS

Field ID	98-2-16-02-08-MET-SC	98-2-16-02-09-MET-SC	98-2-16-02-10-MET-SC	98-2-16-02-11-MET-SC
Lab ID	98-2-16-02-08-MET-SC	98-2-16-02-09-MET-SC	98-2-16-02-10-MET-SC	98-2-16-02-11-MET-SC
SDG	NA	NA	NA	NA
File	NA	NA	NA	NA
Sample Type	SAMP	SAMP	SAMP	SAMP
Matrix	Sediment Core	Sediment Core	Sediment Core	Sediment Core
Sample Size	0.4519 g	0.4607 g	0.4477 g	0.4861 g
Weight Basis	DRY	DRY	DRY	DRY
Associated Blank	NA	NA	NA	NA
Field Date	7/1/1998	7/1/1998	7/1/1998	7/1/1998
Extract Date	8/20/1998	8/20/1998	8/20/1998	8/20/1998
Analysis Date	8/20/1998	8/20/1998	8/20/1998	8/20/1998
Min Reporting Limit	NA	NA	NA	NA
Units	---	---	---	---

METALS				
Ag - Silver (ug/g)	0.06	0.04	0.06	0.05
Al - Aluminum (%)	8.02	7.87	7.9	7.98
As - Arsenic (ug/g)	8.7	10.2	8.5	9.6
Ba - Barium (ug/g)	930	887	895	896
Be - Beryllium (ug/g)	1.5	1.3	1.3	1.4
Ca - Calcium (%)	NA	NA	NA	NA
Cd - Cadmium (ug/g)	0.13	0.12	0.11	NA
Cr - Chromium (ug/g)	85.6	82.4	75.5	82.4
Cu - Copper (ug/g)	37.8	39.8	38.2	38.6
Fe - Iron (%)	4.43	4.48	4.51	4.52
Hg - Mercury (ug/g)	0.066	0.06	0.061	0.065
K - potassium (%)	NA	NA	NA	NA
Mg - Magnesium (%)	NA	NA	NA	NA
Mn - Manganese (ug/g)	875	922	867	905
Ni - Nickel (ug/g)	36.6	35.6	35.1	34.8
Pb - Lead (ug/g)	14	13.6	13.7	13.8
Sb - Antimony (ug/g)	1.03	0.99	1.01	1
Se - Selenium (ug/g)	0.21	0.16	0.19	0.15
Sn - Tin (ug/g)	1.56	1.48	1.46	2.33
Tl - Thallium (ug/g)	0.45	0.45	0.45	0.44
V - Vanadium (ug/g)	144	153	152	145
Zn - Zinc (ug/g)	121	122	119	119

Arthur D. Little, Inc.

Environmental Monitoring and Analysis

Minerals Management Service - Shelikof Strait and Outermost Cook Inlet

1997 Final Data (Not Surrogate Corrected) - Sediment Core - METALS

Field ID	98-2-16-02-12-MET-SC	98-2-16-02-13-MET-SC	98-2-16-02-14-MET-SC	98-2-16-02-14-MET-SC
Lab ID	98-2-16-02-12-MET-SC	98-2-16-02-13-MET-SC	98-2-16-02-14-MET-SC #1	98-2-16-02-14-MET-SC #2
SDG	NA	NA	NA	NA
File	NA	NA	NA	NA
Sample Type	SAMP	SAMP	SAMP	QC
Matrix	Sediment Core	Sediment Core	Sediment Core	Sediment Core
Sample Size	0.4506 g	0.4541 g	0.4506 g	0 g
Weight Basis	DRY	DRY	DRY	DRY
Associated Blank	NA	NA	NA	NA
Field Date	7/1/1998	7/1/1998	7/1/1998	7/1/1998
Extract Date	8/20/1998	8/20/1998	8/20/1998	NA
Analysis Date	8/20/1998	8/20/1998	8/20/1998	NA
Min Reporting Limit	NA	NA	NA	NA
Units	---	---	---	---

METALS				
Ag - Silver (ug/g)	0.05	0.04	0.05	NA
Al - Aluminum (%)	7.2	8.17	8.23	NA
As - Arsenic (ug/g)	9	8.9	8.7	NA
Ba - Barium (ug/g)	935	955	946	NA
Be - Beryllium (ug/g)	1.4	1.5	1.4	NA
Ca - Calcium (%)	NA	NA	NA	NA
Cd - Cadmium (ug/g)	0.13	0.14	0.13	NA
Cr - Chromium (ug/g)	72.6	82.1	82.7	NA
Cu - Copper (ug/g)	37.5	38.6	38.9	NA
Fe - Iron (%)	4.14	4.48	4.55	NA
Hg - Mercury (ug/g)	0.068	0.057	0.06	NA
K - potassium (%)	NA	NA	NA	NA
Mg - Magnesium (%)	NA	NA	NA	NA
Mn - Manganese (ug/g)	883	871	861	NA
Ni - Nickel (ug/g)	36	36.6	35.7	NA
Pb - Lead (ug/g)	14.3	14.2	14.3	NA
Sb - Antimony (ug/g)	1.05	1.08	1.06	NA
Se - Selenium (ug/g)	0.18	0.09	0.15	NA
Sn - Tin (ug/g)	1.59	1.56	1.52	NA
Tl - Thallium (ug/g)	0.47	0.47	0.48	NA
V - Vanadium (ug/g)	121	155	151	NA
Zn - Zinc (ug/g)	117	124	118	NA

Arthur D. Little, Inc.

Environmental Monitoring and Analysis

Minerals Management Service - Shelikof Strait and Outermost Cook Inlet

1997 Final Data (Not Surrogate Corrected) - Sediment Core - METALS

Field ID	98-4-F4-03-00-MET-SC	98-4-F4-03-02-MET-SC	98-4-F4-03-04-MET-SC	98-4-F4-03-06-MET-SC
Lab ID	98-4-F4-03-00-MET-SC	98-4-F4-03-02-MET-SC	98-4-F4-03-04-MET-SC	98-4-F4-03-06-MET-SC
SDG	NA	NA	NA	NA
File	NA	NA	NA	NA
Sample Type	SAMP	SAMP	SAMP	SAMP
Matrix	Sediment Core	Sediment Core	Sediment Core	Sediment Core
Sample Size	0.4663 g	0.4506 g	0.4442 g	0.4498 g
Weight Basis	DRY	DRY	DRY	DRY
Associated Blank	NA	NA	NA	NA
Field Date	6/30/1998	6/30/1998	6/30/1998	6/30/1998
Extract Date	8/5/1998	8/5/1998	8/5/1998	8/5/1998
Analysis Date	8/5/1998	8/5/1998	8/5/1998	8/5/1998
Min Reporting Limit	NA	NA	NA	NA
Units	---	---	---	---

METALS				
Ag - Silver (ug/g)	0.05	0.06	0.05	0.06
Al - Aluminum (%)	7.48	8.12	8.04	8.32
As - Arsenic (ug/g)	10.7	7.8	7.8	7.8
Ba - Barium (ug/g)	859	853	884	892
Be - Beryllium (ug/g)	1.3	1.2	1.3	1.3
Ca - Calcium (%)	NA	NA	NA	NA
Cd - Cadmium (ug/g)	0.15	0.12	0.16	0.19
Cr - Chromium (ug/g)	75.7	81.6	84.5	83.4
Cu - Copper (ug/g)	32.9	34	34.5	35.4
Fe - Iron (%)	4.33	4.56	4.42	4.53
Hg - Mercury (ug/g)	0.063	0.063	0.063	0.069
K - potassium (%)	NA	NA	NA	NA
Mg - Magnesium (%)	NA	NA	NA	NA
Mn - Manganese (ug/g)	1209	984	863	852
Ni - Nickel (ug/g)	40	40.9	40.9	42.1
Pb - Lead (ug/g)	14.1	13.8	14.4	15
Sb - Antimony (ug/g)	1.04	1.04	1.11	1.17
Se - Selenium (ug/g)	0.22	0.24	0.2	0.23
Sn - Tin (ug/g)	1.38	1.37	1.46	1.57
Tl - Thallium (ug/g)	0.45	0.43	0.47	0.48
V - Vanadium (ug/g)	137	159	156	160
Zn - Zinc (ug/g)	112	122	121	122

Arthur D. Little, Inc.

Environmental Monitoring and Analysis

Minerals Management Service - Shelikof Strait and Outermost Cook Inlet

1997 Final Data (Not Surrogate Corrected) - Sediment Core - METALS

Field ID	98-4-F4-03-08-MET-SC	98-4-F4-03-12-MET-SC	98-4-F4-03-18-MET-SC	98-4-F4-03-25-MET-SC
Lab ID	98-4-F4-03-08-MET-SC	98-4-F4-03-12-MET-SC	98-4-F4-03-18-MET-SC	98-4-F4-03-25-MET-SC
SDG	NA	NA	NA	NA
File	NA	NA	NA	NA
Sample Type	SAMP	SAMP	SAMP	SAMP
Matrix	Sediment Core	Sediment Core	Sediment Core	Sediment Core
Sample Size	0.4583 g	0.4556 g	0.4546 g	0.4533 g
Weight Basis	DRY	DRY	DRY	DRY
Associated Blank	NA	NA	NA	NA
Field Date	6/30/1998	6/30/1998	6/30/1998	6/30/1998
Extract Date	8/5/1998	8/5/1998	8/5/1998	8/5/1998
Analysis Date	8/5/1998	8/5/1998	8/5/1998	8/5/1998
Min Reporting Limit	NA	NA	NA	NA
Units	---	---	---	---

METALS				
Ag - Silver (ug/g)	0.06	0.06	0.05	0.06
Al - Aluminum (%)	7.98	8.4	8.42	8.45
As - Arsenic (ug/g)	7.9	8.1	8.6	8.2
Ba - Barium (ug/g)	860	879	920	892
Be - Beryllium (ug/g)	1.3	1.3	1.4	1.3
Ca - Calcium (%)	NA	NA	NA	NA
Cd - Cadmium (ug/g)	0.17	0.16	0.17	0.2
Cr - Chromium (ug/g)	80.3	84	82.5	82.8
Cu - Copper (ug/g)	34.8	35	36.4	35.2
Fe - Iron (%)	4.4	4.58	4.6	4.65
Hg - Mercury (ug/g)	0.062	0.065	0.069	0.069
K - potassium (%)	NA	NA	NA	NA
Mg - Magnesium (%)	NA	NA	NA	NA
Mn - Manganese (ug/g)	902	947	975	1005
Ni - Nickel (ug/g)	40.4	42	43.6	41.3
Pb - Lead (ug/g)	14.1	14.7	15.2	14.5
Sb - Antimony (ug/g)	1.15	1.12	1.19	1.15
Se - Selenium (ug/g)	0.24	0.3	0.24	0.27
Sn - Tin (ug/g)	1.46	1.6	1.56	1.84
Tl - Thallium (ug/g)	0.45	0.45	0.5	0.46
V - Vanadium (ug/g)	151	146	158	153
Zn - Zinc (ug/g)	123	127	124	127

Arthur D. Little, Inc.

Environmental Monitoring and Analysis

Minerals Management Service - Shelikof Strait and Outermost Cook Inlet

1997 Final Data (Not Surrogate Corrected) - Sediment Core - METALS

Field ID	98-4-F4-03-32-MET-SC	98-4-F4-03-38-MET-SC
Lab ID	98-4-F4-03-32-MET-SC	98-4-F4-03-38-MET-SC
SDG	NA	NA
File	NA	NA
Sample Type	SAMP	SAMP
Matrix	Sediment Core	Sediment Core
Sample Size	0.4435 g	0.4794 g
Weight Basis	DRY	DRY
Associated Blank	NA	NA
Field Date	6/30/1998	6/30/1998
Extract Date	8/5/1998	8/5/1998
Analysis Date	8/5/1998	8/5/1998
Min Reporting Limit	NA	NA
Units	---	---

METALS		
Ag - Silver (ug/g)	0.07	0.06
Al - Aluminum (%)	8.25	7.81
As - Arsenic (ug/g)	8	8.7
Ba - Barium (ug/g)	920	843
Be - Beryllium (ug/g)	1.4	1.2
Ca - Calcium (%)	NA	NA
Cd - Cadmium (ug/g)	0.2	0.19
Cr - Chromium (ug/g)	86.3	81.3
Cu - Copper (ug/g)	36	35.8
Fe - Iron (%)	4.55	4.17
Hg - Mercury (ug/g)	0.064	0.06
K - potassium (%)	NA	NA
Mg - Magnesium (%)	NA	NA
Mn - Manganese (ug/g)	918	799
Ni - Nickel (ug/g)	42	38.3
Pb - Lead (ug/g)	14.9	13
Sb - Antimony (ug/g)	1.19	1.11
Se - Selenium (ug/g)	0.24	0.27
Sn - Tin (ug/g)	1.69	1.47
Tl - Thallium (ug/g)	0.5	0.46
V - Vanadium (ug/g)	150	144
Zn - Zinc (ug/g)	127	115