

Arthur D. Little, Inc.

Environmental Monitoring and Analysis

Minerals Management Service - Shelikof Strait and Outermost Cook Inlet

1997 Final Data (Not Surrogate Corrected) - Surface Sediment - AVS_1

Field ID	97-0-F1-01-00-AVS-S	97-0-F2-01-00-AVS-S	97-0-F4-01-00-AVS-S	97-0-F4-01-00-AVS-S
Lab ID	97-0-F1-01-00 AVS	97-0-F2-01-00 AVS	97-0-F4-01-00 AVS	97-0-F4-01-00 AVS- spike
SDG	NA	NA	NA	NA
File	NA	NA	NA	NA
Sample Type	SAMP	SAMP	SAMP	QC
Matrix	SEDIMENT	SEDIMENT	SEDIMENT	SEDIMENT
Sample Size	9.546 g	10.62 g	9.044 g	8.839 g
Weight Basis	DRY	DRY	DRY	DRY
Associated Blank	NA	NA	NA	NA
Field Date	7/16/1997	7/15/1997	7/15/1997	7/15/1997
Extract Date	7/28/1997	7/24/1997	7/25/1997	7/25/1997
Analysis Date	7/28/1997	7/24/1997	7/25/1997	7/25/1997
Min Reporting Limit	NA	NA	NA	NA
Units	umol/g	umol/g	umol/g	umol/g
AVS				
Cadmium	0.0006	0.0007	0.0004	0.0004
Copper	0.324	0.138	0.069	0.071
Iron	140.1	85.51	118	117.5
Nickel	0.151	0.082	0.048	0.037
Lead	0.0295	0.0147	0.0128	0.0137
Zinc	0.488	0.275	0.22	0.204
Total SEM	0.9931	0.5104	0.3502	0.326
AVS Conc	3.06	0.1047	0.0905	0 -
Total SEM - AVS	-2.067	0.4057	0.2597	NA

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Field ID	97-0-F5-01-00-AVS-S	97-0-F6-01-00-AVS-S	97-0-F8-01-00-AVS-S	97-0-F8-02-00-AVS-S
Lab ID	97-0-F5-01-00 AVS	97-0-F6-01-00 AVS	97-0-F8-01-00 AVS	97-0-F8-02-00 AVS
SDG	NA	NA	NA	NA
File	NA	NA	NA	NA
Sample Type	SAMP	SAMP	SAMP	SAMP
Matrix	SEDIMENT	SEDIMENT	SEDIMENT	SEDIMENT
Sample Size	9.466 g	9.158 g	9.823 g	9.457 g
Weight Basis	DRY	DRY	DRY	DRY
Associated Blank	NA	NA	NA	NA
Field Date	7/15/1997	7/15/1997	7/15/1997	7/15/1997
Extract Date	7/25/1997	7/25/1997	7/28/1997	7/28/1997
Analysis Date	7/25/1997	7/25/1997	7/28/1997	7/28/1997
Min Reporting Limit	NA	NA	NA	NA
Units	umol/g	umol/g	umol/g	umol/g
AVS				
Cadmium	0.0005	0.001	0.0005	0.0005
Copper	0.203	0.195	0.219	0.195
Iron	121.6	85.41	124.7	124.2
Nickel	0.098	0.094	0.105	0.09
Lead	0.0147	0.0183	0.0162	0.019
Zinc	0.388	0.316	0.354	0.381
Total SEM	0.7042	0.6243	0.6947	0.6856
AVS Conc	0.0208	0 ND	0 ND	0.0198
Total SEM - AVS	0.6834	0.61	0.68	0.6658

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Field ID	97-0-F8-03-00-AVS-S	97-0-F8-03-00-AVS-S	97-0-F13-01-00-AVS-S	97-0-F13-01-00-AVS-S
Lab ID	97-0-F8-03-00 AVS	97-0-F8-03-00 AVS- spike	97-0-F13-01-00 #1 AVS	97-0-F13-01-00 #2 AVS
SDG	NA	NA	NA	NA
File	NA	NA	NA	NA
Sample Type	SAMP	QC	SAMP	QC
Matrix	SEDIMENT	SEDIMENT	SEDIMENT	SEDIMENT
Sample Size	9.094 g	8.469 g	9.013 g	7.221 g
Weight Basis	DRY	DRY	DRY	DRY
Associated Blank	NA	NA	NA	NA
Field Date	7/15/1997	7/15/1997	7/15/1997	7/15/1997
Extract Date	7/28/1997	7/28/1997	7/28/1997	7/28/1997
Analysis Date	7/28/1997	7/28/1997	7/28/1997	7/28/1997
Min Reporting Limit	NA	NA	NA	NA
Units	umol/g	umol/g	umol/g	umol/g
AVS				
Cadmium	0.0004	0.0004	0.0004	0.0006
Copper	0.183	0.184	0.159	0.2
Iron	112.3	116.7	122.3	123.7
Nickel	0.074	0.074	0.078	0.115
Lead	0.0159	0.0138	0.0181	0.0213
Zinc	0.303	0.309	0.351	0.528
Total SEM	0.5763	0.5812	0.6065	0.865
AVS Conc	0.0111	0 -	0.222	0.295
Total SEM - AVS	0.5652	NA	0.3845	0.57

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1997 Final Data (Not Surrogate Corrected) - Surface Sediment - AVS_1

Field ID	97-0-F14-01-00-AVS-S	97-1-F1-01-00-AVS-S	97-1-F2-01-00-AVS-S	97-1-04-01-00-AVS-S
Lab ID	97-0-F14-01-00 AVS	97-1-F1-01-00 AVS	97-1-F2-01-00 AVS	97-1-04-01-00 AVS
SDG	NA	NA	NA	NA
File	NA	NA	NA	NA
Sample Type	SAMP	SAMP	SAMP	SAMP
Matrix	SEDIMENT	SEDIMENT	SEDIMENT	SEDIMENT
Sample Size	9.551 g	9.023 g	9.435 g	7.402 g
Weight Basis	DRY	DRY	DRY	DRY
Associated Blank	NA	NA	NA	NA
Field Date	7/16/1997	7/13/1997	7/14/1997	7/14/1997
Extract Date	7/28/1997	7/23/1997	7/24/1997	7/24/1997
Analysis Date	7/28/1997	7/23/1997	7/24/1997	7/24/1997
Min Reporting Limit	NA	NA	NA	NA
Units	umol/g	umol/g	umol/g	umol/g
AVS				
Cadmium	0.0009	0.0006	0.0008	0.0007
Copper	0.277	0.156	0.185	0.285
Iron	115.9	124.5	82.47	74.18
Nickel	0.173	0.081	0.104	0.103
Lead	0.0274	0.022	0.0253	0.0094
Zinc	0.585	0.341	0.405	1.877
Total SEM	1.063	0.6005	0.7202	2.275
AVS Conc	18.6	0.001	0 ND	0.0074
Total SEM - AVS	-17.54	0.5995	0.71	2.268

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Field ID	97-1-04-01-00-AVS-S	97-1-07-01-00-AVS-S	97-1-08-01-00-AVS-S	97-1-13-01-00-AVS-S
Lab ID	97-1-04-01-00 AVS-spike	97-1-07-01-00 AVS	97-1-08-01-00 AVS	97-1-13-01-00 #1 AVS
SDG	NA	NA	NA	NA
File	NA	NA	NA	NA
Sample Type	QC	SAMP	SAMP	SAMP
Matrix	SEDIMENT	SEDIMENT	SEDIMENT	SEDIMENT
Sample Size	7.667 g	9.191 g	9.467 g	7.128 g
Weight Basis	DRY	DRY	DRY	DRY
Associated Blank	NA	NA	NA	NA
Field Date	7/14/1997	7/14/1997	7/14/1997	7/13/1997
Extract Date	7/24/1997	7/24/1997	7/24/1997	7/23/1997
Analysis Date	7/24/1997	7/24/1997	7/24/1997	7/23/1997
Min Reporting Limit	NA	NA	NA	NA
Units	umol/g	umol/g	umol/g	umol/g
AVS				
Cadmium	0.0007	0.0006	0.0009	0.001
Copper	0.275	0.254	0.183	0.239
Iron	108.2	119.9	76.7	150.2
Nickel	0.169	0.102	0.034	0.14
Lead	0.0222	0.0221	0.0227	0.0333
Zinc	1.865	0.454	0.366	0.548
Total SEM	2.332	0.8327	0.6066	0.9613
AVS Conc	0 -	0.167	0 ND	1.74
Total SEM - AVS	NA	0.6657	0.6	-0.7787

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1997 Final Data (Not Surrogate Corrected) - Surface Sediment - AVS_1

Field ID	97-1-13-01-00-AVS-S	97-2-01-01-00-AVS-S	97-2-F1-01-00-AVS-S	97-2-F2-01-00-AVS-S
Lab ID	97-1-13-01-00 #2	97-2-01-01-00	97-2-F1-01-00	97-2-F2-01-00
	AVS	AVS	AVS	AVS
SDG	NA	NA	NA	NA
File	NA	NA	NA	NA
Sample Type	QC	SAMP	SAMP	SAMP
Matrix	SEDIMENT	SEDIMENT	SEDIMENT	SEDIMENT
Sample Size	7.221 g	9.117 g	8.962 g	5.095 g
Weight Basis	DRY	DRY	DRY	DRY
Associated Blank	NA	NA	NA	NA
Field Date	7/13/1997	7/12/1997	7/12/1997	7/9/1997
Extract Date	7/23/1997	7/22/1997	7/23/1997	7/22/1997
Analysis Date	7/23/1997	7/22/1997	7/23/1997	7/22/1997
Min Reporting Limit	NA	NA	NA	NA
Units	umol/g	umol/g	umol/g	umol/g
AVS				
Cadmium	0.0015	0.0026	0.0012	0.0021
Copper	0.094	0.261	0.246	0.271
Iron	127.8	80.41	148.6	33.13
Nickel	0.15	0.106	0.128	0.176
Lead	0.0387	0.033	0.0306	0.0383
Zinc	1.532	0.467	0.541	0.767
Total SEM	1.816	0.8695	0.9469	1.254
AVS Conc	1.4	0.228	0.202	0.045
Total SEM - AVS	0.4162	0.6415	0.7449	1.209

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Minerals Management Service - Shelikof Strait and Outermost Cook Inlet

1997 Final Data (Not Surrogate Corrected) - Surface Sediment - AVS_1

Field ID	97-2-13-01-00-AVS-S	97-2-14-01-00-AVS-S	97-2-22-01-00-AVS-S	97-3-F1-01-00-AVS-S
Lab ID	97-2-13-01-00 AVS	97-2-14-01-00 AVS	97-2-22-01-00 AVS	97-3-F1-01-00 AVS
SDG	NA	NA	NA	NA
File	NA	NA	NA	NA
Sample Type	SAMP	SAMP	SAMP	SAMP
Matrix	SEDIMENT	SEDIMENT	SEDIMENT	SEDIMENT
Sample Size	9.062 g	9.041 g	8.921 g	5.002 g
Weight Basis	DRY	DRY	DRY	DRY
Associated Blank	NA	NA	NA	NA
Field Date	7/12/1997	7/13/1997	7/13/1997	7/10/1997
Extract Date	7/22/1997	7/24/1997	7/24/1997	7/22/1997
Analysis Date	7/22/1997	7/24/1997	7/24/1997	7/22/1997
Min Reporting Limit	NA	NA	NA	NA
Units	umol/g	umol/g	umol/g	umol/g
AVS				
Cadmium	0.0008	0.0009	0.0009	0.0109
Copper	0.227	0.265	0.287	0.25
Iron	36.43	95.97	55.41	30.37
Nickel	0.118	0.116	0.12	0.163
Lead	0.0228	0.0281	0.0314	0.0718
Zinc	1.366	1.954	1.886	0.541
Total SEM	1.735	2.364	2.325	1.037
AVS Conc	1.86	0.69	0.186	0.35
Total SEM - AVS	-0.1253	1.674	2.139	0.6867

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Minerals Management Service - Shelikof Strait and Outermost Cook Inlet

1997 Final Data (Not Surrogate Corrected) - Surface Sediment - AVS_1

Field ID	97-3-F2-01-00-AVS-S	97-3-F2-01-00-AVS-S	97-3-08-01-00-AVS-S	97-3-10-01-00-AVS-S
Lab ID	97-3-F2-01-00 AVS	97-3-F2-01-00 AVS- spike	97-3-08-01-00 AVS	97-3-10-01-00 AVS
SDG	NA	NA	NA	NA
File	NA	NA	NA	NA
Sample Type	SAMP	QC	SAMP	SAMP
Matrix	SEDIMENT	SEDIMENT	SEDIMENT	SEDIMENT
Sample Size	4.863 g	4.913 g	8.988 g	8.983 g
Weight Basis	DRY	DRY	DRY	DRY
Associated Blank	NA	NA	NA	NA
Field Date	7/10/1997	7/10/1997	7/12/1997	7/11/1997
Extract Date	7/22/1997	7/22/1997	7/23/1997	7/22/1997
Analysis Date	7/22/1997	7/22/1997	7/23/1997	7/22/1997
Min Reporting Limit	NA	NA	NA	NA
Units	umol/g	umol/g	umol/g	umol/g
AVS				
Cadmium	0.003	0.012	0.0017	0.0012
Copper	0.25	0.248	0.232	0.267
Iron	30.47	26.28	32.4	115.2
Nickel	0.195	0.123	0.13	0.145
Lead	0.0405	0.0521	0.0364	0.0341
Zinc	0.59	0.584	0.679	1.985
Total SEM	1.079	1.019	1.079	2.432
AVS Conc	0.97	0 -	0.2366	0.869
Total SEM - AVS	0.1085	NA	0.8425	1.563

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1997 Final Data (Not Surrogate Corrected) - Surface Sediment - AVS_1

Field ID	97-3-11-01-00-AVS-S	97-3-11-01-00-AVS-S	97-3-14-01-00-AVS-S	97-3-20-01-00-AVS-S
Lab ID	97-3-11-01-00 AVS	97-3-11-01-00 AVS- spike	97-3-14-01-00 AVS	97-3-20-01-00 AVS
SDG	NA	NA	NA	NA
File	NA	NA	NA	NA
Sample Type	SAMP	QC	SAMP	SAMP
Matrix	SEDIMENT	SEDIMENT	SEDIMENT	SEDIMENT
Sample Size	9.095 g	8.471 g	8.989 g	9.152 g
Weight Basis	DRY	DRY	DRY	DRY
Associated Blank	NA	NA	NA	NA
Field Date	7/12/1997	7/12/1997	7/12/1997	7/11/1997
Extract Date	7/23/1997	7/23/1997	7/23/1997	7/22/1997
Analysis Date	7/23/1997	7/23/1997	7/23/1997	7/22/1997
Min Reporting Limit	NA	NA	NA	NA
Units	umol/g	umol/g	umol/g	umol/g
AVS				
Cadmium	0.0021	0.002	0.0018	0.0013
Copper	0.235	0.215	0.194	0.244
Iron	41.8	153.9	42.14	147.9
Nickel	0.137	0.138	0.151	0.143
Lead	0.0339	0.0325	0.0399	0.0356
Zinc	0.526	0.53	0.611	0.546
Total SEM	0.9341	0.9175	0.9977	0.9699
AVS Conc	1.03	0 -	0.192	3.07
Total SEM - AVS	-0.0959	NA	0.8057	-2.1