

Arthur D. Little, Inc.

Environmental Monitoring and Analysis

Minerals Management Service - Shelikof Strait and Outermost Cook Inlet

1997 Final Data (Surrogate Corrected) - Surface Sediment - BIOMARKER

Field ID	98-AC-AC1-01-00- PHC-S	98-AC-AC1-02-00- PHC-S	98-AC-AC1-03-00- PHC-S	98-0-F1-01-00-PHC-S
Lab ID	98D2128	98D2125	98D2122	98D2091
SDG	SDGS002	SDGS002	SDGS002	SDGS001
File	DZ6338.D	DZ6335.D	DZ6331.D	DZ6411.D
Sample Type	SAMP	SAMP	SAMP	SAMP
Matrix	Sediment	Sediment	Sediment	Sediment
Sample Size	22.1 g	20.9 g	21 g	24 g
Weight Basis	DRY	DRY	DRY	DRY
Associated Blank	BV-S-83PB	BV-S-83PB	BV-S-83PB	BV-S-80PB
Field Date	6/27/1998	6/27/1998	6/27/1998	7/3/1998
Extract Date	9/14/1998	9/14/1998	9/14/1998	9/10/1998
Analysis Date	10/1/1998	10/1/1998	10/1/1998	10/6/1998
Min Reporting Limit	1.1	1.2	1.2	1
Units	ug/g	ug/g	ug/g	ug/g
BIOMARKER				
T4-C23Diterpane	ND	ND	ND	ND
S4-Diacholestane	0.00095 J	0.00094 J	0.00089 J	0.00047 J
S5-Diacholestane	0.00084 J	0.0007 J	0.00074 J	0.00026 J
T9-C29Tricyclitriterpane	ND	ND	ND	ND
T10-C29Tricyclitriterpane	ND	ND	ND	ND
T11-Trisnorhopane(TS)	0.0011	0.0012	0.0011 J	0.0034
T12-Trisnorhopane(TM)	0.0025	0.0027	0.0026	0.0025
S24-Methylcholestane	0.0056	0.0057	0.0052	0.0035
S25-Ethylcholestane	0.0019	0.0022	0.0016	0.00037 J
S28-Ethylcholestane	0.0064	0.0072	0.0067	0.0082
T15-Norhopane	0.0066	0.0064	0.0061	0.024
T18-Oleanane	0.0034	0.003	0.0031	ND
T19-Hopane	0.01	0.011	0.01	0.0037
T21-Homohopane	0.0052	0.0057	0.005	0.0017
T22-Homohopane	0.0042	0.0045	0.004	0.021
Total S/T	0.049	0.051	0.047	0.069
5B(H)-Cholane	75	76	76	82
D66-Dotriacontane	NA	NA	NA	NA

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Lab ID	98D2118	98D2118DUP	98D2107	98D2094
SDG	SDGS002	SDGS002	SDGS001	SDGS001
File	DZ6326.D	DZ6327.D	DZ6426.D	DZ6414.D
Sample Type	SAMP	QC	SAMP	SAMP
Matrix	Sediment	Sediment	Sediment	Sediment
Sample Size	25.2 g	25.4 g	24.5 g	30.8 g
Weight Basis	DRY	DRY	DRY	DRY
Associated Blank	BV-S-83PB	BV-S-83PB	BV-S-80PB	BV-S-80PB
Field Date	7/4/1998	7/4/1998	7/3/1998	7/3/1998
Extract Date	9/14/1998	9/14/1998	9/10/1998	9/10/1998
Analysis Date	10/1/1998	10/1/1998	10/6/1998	10/6/1998
Min Reporting Limit	1	1	1	0.81
Units	ug/g	ug/g	ug/g	ug/g
BIOMARKER				
T4-C23Diterpane	ND	ND	ND	ND
S4-Diacholestane	0.00037 J	0.00048 J	0.00058 J	0.00018 J
S5-Diacholestane	0.00031 J	0.00022 J	0.00037 J	0.000093 J
T9-C29Tricyclitriterpane	ND	ND	ND	ND
T10-C29Tricyclitriterpane	ND	ND	ND	ND
T11-Trisnorhopane(TS)	0.00021 J	0.00016 J	0.0031	0.00033 J
T12-Trisnorhopane(TM)	0.0028	0.0024	0.0027	0.00086
S24-Methylcholestane	0.0029	0.0028	0.0038	0.00074 J
S25-Ethylcholestane	0.00034 J	0.00038 J	0.0016	0.0005 J
S28-Ethylcholestane	0.0084	0.0078	0.0083	0.0025
T15-Norhopane	0.022	0.025	0.023	0.004
T18-Oleanane	0.00072 J	0.00095 J	0.00042 J	0.00015 J
T19-Hopane	0.0036	0.0043	0.0048	0.0014
T21-Homohopane	0.002	0.0019	0.0024	0.00095
T22-Homohopane	0.023	0.022	0.02	0.016
Total S/T	0.067	0.068	0.071	0.028
5B(H)-Cholane	83	84	77	82
D66-Dotriacontane	NA	NA	NA	NA

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Field ID	98-0-F4-01-00-PHC-S	98-0-F5-01-00-PHC-S	98-0-F6-01-00-PHC-S	98-0-F8-01-00-PHC-S
Lab ID	98D2143	98D2144	98D2145	98D2089REX
SDG	SDGS002	SDGS002	SDGS002	SDGS001
File	DZ6341.D	DZ6342.D	DZ6343.D	DZ6616.D
Sample Type	SAMP	SAMP	SAMP	SAMP
Matrix	Sediment	Sediment	Sediment	Sediment
Sample Size	30.4 g	30 g	35.5 g	35.6 g
Weight Basis	DRY	DRY	DRY	DRY
Associated Blank	BV-S-83PB	BV-S-83PB	BV-S-83PB	BW-S-41PB
Field Date	7/2/1998	7/2/1998	7/2/1998	7/2/1998
Extract Date	9/14/1998	9/14/1998	9/14/1998	10/6/1998
Analysis Date	10/2/1998	10/2/1998	10/2/1998	10/21/1998
Min Reporting Limit	0.8	0.8	0.7	1
Units	ug/g	ug/g	ug/g	ug/g
BIOMARKER				
T4-C23Diterpane	ND	ND	ND	ND
S4-Diacholestane	0.00022 J	0.00033 J	0.00024 J	0.00021 J
S5-Diacholestane	0.00014 J	0.00023 J	0.00014 J	0.00014 J
T9-C29Tricyclitriterpane	ND	ND	ND	ND
T10-C29Tricyclitriterpane	ND	ND	ND	ND
T11-Trisnorhopane(TS)	0.0002 J	0.00028 J	0.00013 J	0.00016 J
T12-Trisnorhopane(TM)	0.00054 J	0.0006 J	0.00041 J	0.00046 J
S24-Methylcholestane	0.0006 J	0.00055 J	0.00029 J	0.00024 J
S25-Ethylcholestane	0.0003 J	0.0004 J	0.00021 J	0.00019 J
S28-Ethylcholestane	0.001	0.0022	0.0016	0.0012
T15-Norhopane	0.0014	0.0022	0.0011	0.0014
T18-Oleanane	0.00033 J	0.00015 J	0.000087 J	0.00013 J
T19-Hopane	0.0016	0.0016	0.00084	0.0012
T21-Homohopane	0.00087	0.00073 J	0.00042 J	0.00043 J
T22-Homohopane	0.0023	0.0045	0.004	0.004
Total S/T	0.0095	0.014	0.0095	0.0098
5B(H)-Cholane	73	91	80	91
D66-Dotriacontane	NA	NA	NA	NA

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Field ID	98-0-F13-01-00-PHC-S	98-0-F14-01-00-PHC-S	98-1-F1-01-00-PHC-S	98-1-F1-02-00-PHC-S
Lab ID	98D2093	98D2092	98D2153	98D2154
SDG	SDGS001	SDGS001	SDGS004	SDGS004
File	DZ6413.D	DZ6412.D	DY6138.D	DY6139.D
Sample Type	SAMP	SAMP	SAMP	SAMP
Matrix	Sediment	Sediment	Sediment	Sediment
Sample Size	29.3 g	21.3 g	27.6 g	28.4 g
Weight Basis	DRY	DRY	DRY	DRY
Associated Blank	BV-S-80PB	BV-S-80PB	BV-S-97PB	BV-S-97PB
Field Date	7/3/1998	7/3/1998	7/2/1998	7/2/1998
Extract Date	9/10/1998	9/10/1998	9/25/1998	9/25/1998
Analysis Date	10/6/1998	10/6/1998	10/13/1998	10/13/1998
Min Reporting Limit	0.85	1.2	1	1
Units	ug/g	ug/g	ug/g	ug/g
BIOMARKER				
T4-C23Diterpane	ND	ND	ND	ND
S4-Diacholestane	0.00043 J	0.00079 J	0.0005 J	0.00039 J
S5-Diacholestane	0.00024 J	0.00043 J	0.00028 J	0.00027 J
T9-C29Tricyclitriterpane	ND	ND	ND	ND
T10-C29Tricyclitriterpane	ND	ND	ND	ND
T11-Trisnorhopane(TS)	0.00046 J	0.00052 J	0.00039 J	0.00036 J
T12-Trisnorhopane(TM)	0.0014	0.0022	0.00092	0.00092
S24-Methylcholestane	0.0011	0.0024	0.0014	0.0014
S25-Ethylcholestane	0.0006 J	0.0015	0.00073 J	0.00042 J
S28-Ethylcholestane	0.0033	0.0071	0.0025	0.0023
T15-Norhopane	0.0079	0.016	0.0035	0.0031
T18-Oleanane	0.00026 J	0.00057 J	0.00058 J	0.0005 J
T19-Hopane	0.0023	0.0044	0.0031	0.003
T21-Homohopane	0.0014	0.0024	0.0017	0.0016
T22-Homohopane	0.011	0.012	0.0051	0.006
Total S/T	0.03	0.05	0.021	0.02
5B(H)-Cholane	86	95	64	66
D66-Dotriacontane	NA	NA	NA	NA

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Field ID	98-1-F1-03-00-PHC-S	98-1-F2-01-00-PHC-S	98-1-16-01-00-PHC-S	98-1-17-01-00-PHC-S
Lab ID	98D2152	98D2121	98D2149	98D2147
SDG	SDGS004	SDGS002	SDGS002	SDGS002
File	DY6137.D	DZ6330.D	DZ6348.D	DZ6345.D
Sample Type	SAMP	SAMP	SAMP	SAMP
Matrix	Sediment	Sediment	Sediment	Sediment
Sample Size	28 g	20 g	24.7 g	29.7 g
Weight Basis	DRY	DRY	DRY	DRY
Associated Blank	BV-S-97PB	BV-S-83PB	BV-S-83PB	BV-S-83PB
Field Date	7/2/1998	6/28/1998	7/2/1998	7/2/1998
Extract Date	9/25/1998	9/14/1998	9/14/1998	9/14/1998
Analysis Date	10/13/1998	10/1/1998	10/2/1998	10/2/1998
Min Reporting Limit	1	1.2	1	0.8
Units	ug/g	ug/g	ug/g	ug/g
BIOMARKER				
T4-C23Diterpane	ND	ND	ND	ND
S4-Diacholestane	0.00038 J	0.00057 J	0.00054 J	0.00037 J
S5-Diacholestane	0.00024 J	0.00036 J	0.00035 J	0.00027 J
T9-C29Tricyclitriterpane	ND	ND	ND	ND
T10-C29Tricyclitriterpane	ND	ND	ND	ND
T11-Trisnorhopane(TS)	0.00053 J	0.00054 J	0.00051 J	0.00045 J
T12-Trisnorhopane(TM)	0.00078 J	0.0013	0.00094 J	0.00079 J
S24-Methylcholestane	0.0014	0.0017	0.0015	0.00094
S25-Ethylcholestane	0.00052 J	0.0012	0.00058 J	0.00042 J
S28-Ethylcholestane	0.0023	0.0025	0.0024	0.0014
T15-Norhopane	0.0036	0.0028	0.0028	0.0017
T18-Oleanane	0.0006 J	0.00096 J	0.00056 J	0.00048 J
T19-Hopane	0.0028	0.0044	0.0034	0.0025
T21-Homohopane	0.0016	0.002	0.0016	0.0012
T22-Homohopane	0.0058	0.0027	0.004	0.0017
Total S/T	0.02	0.021	0.019	0.012
5B(H)-Cholane	67	82	83	78
D66-Dotriacontane	NA	NA	NA	NA

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1997 Final Data (Surrogate Corrected) - Surface Sediment - BIOMARKER

Field ID	98-1-19-01-00-PHC-S	98-1-21-01-00-PHC-S	98-1-22-01-00-PHC-S	98-1-23-01-00-PHC-S
Lab ID	98D2148	98D2151	98D2146	98D2150
SDG	SDGS002	SDGS004	SDGS002	SDGS004
File	DZ6347.D	DY6136.D	DZ6344.D	DY6134.D
Sample Type	SAMP	SAMP	SAMP	SAMP
Matrix	Sediment	Sediment	Sediment	Sediment
Sample Size	29.3 g	35.1 g	32.7 g	30.4 g
Weight Basis	DRY	DRY	DRY	DRY
Associated Blank	BV-S-83PB	BV-S-97PB	BV-S-83PB	BV-S-97PB
Field Date	7/2/1998	7/2/1998	7/2/1998	7/2/1998
Extract Date	9/14/1998	9/25/1998	9/14/1998	9/25/1998
Analysis Date	10/2/1998	10/13/1998	10/2/1998	10/13/1998
Min Reporting Limit	0.9	1	0.8	1
Units	ug/g	ug/g	ug/g	ug/g
BIOMARKER				
T4-C23Diterpane	ND	ND	ND	ND
S4-Diacholestane	0.0003 J	0.00024 J	0.00029 J	0.00048 J
S5-Diacholestane	0.00023 J	0.00016 J	0.00019 J	0.00026 J
T9-C29Tricyclitriterpane	ND	ND	ND	ND
T10-C29Tricyclitriterpane	ND	ND	ND	ND
T11-Trisnorhopane(TS)	0.0003 J	0.00022 J	0.00031 J	0.00039 J
T12-Trisnorhopane(TM)	0.00061 J	0.00048 J	0.00064 J	0.00078 J
S24-Methylcholestane	0.00069 J	0.00071	0.00077	0.0012
S25-Ethylcholestane	0.0004 J	0.00031 J	0.00028 J	0.00063 J
S28-Ethylcholestane	0.002	0.0014	0.0021	0.0028
T15-Norhopane	0.0018	0.0015	0.0025	0.0026
T18-Oleanane	0.0002 J	0.00034 J	0.00036 J	0.00018 J
T19-Hopane	0.0016	0.0017	0.0017	0.0024
T21-Homohopane	0.00093	0.00088	0.00087	0.0011
T22-Homohopane	0.0036	0.0028	0.0054	0.0054
Total S/T	0.013	0.011	0.015	0.018
5B(H)-Cholane	71	62	75	60
D66-Dotriacontane	NA	NA	NA	NA

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Field ID	98-1-23-01-00-PHC-S	98-2-F1-01-00-PHC-S	98-2-F2-01-00-PHC-S	98-2-F2-02-00-PHC-S
Lab ID	98D2150DUP	98D2102	98D2101	98D2098
SDG	SDGS004	SDGS001	SDGS001	SDGS001
File	DY6135.D	DZ6421.D	DZ6420.D	DZ6418.D
Sample Type	QC	SAMP	SAMP	SAMP
Matrix	Sediment	Sediment	Sediment	Sediment
Sample Size	30.3 g	22.6 g	19.4 g	19.6 g
Weight Basis	DRY	DRY	DRY	DRY
Associated Blank	BV-S-97PB	BV-S-80PB	BV-S-80PB	BV-S-80PB
Field Date	7/2/1998	7/1/1998	7/1/1998	7/1/1998
Extract Date	9/25/1998	9/10/1998	9/10/1998	9/10/1998
Analysis Date	10/13/1998	10/6/1998	10/6/1998	10/6/1998
Min Reporting Limit	1	1.1	1.3	1.3
Units	ug/g	ug/g	ug/g	ug/g
BIOMARKER				
T4-C23Diterpane	ND	ND	ND	ND
S4-Diacholestane	0.00038 J	0.00054 J	0.00056 J	0.00058 J
S5-Diacholestane	0.0002 J	0.00039 J	0.00039 J	0.0005 J
T9-C29Tricyclitriterpane	ND	ND	ND	ND
T10-C29Tricyclitriterpane	ND	ND	ND	ND
T11-Trisnorhopane(TS)	0.00046 J	0.00063 J	0.00045 J	0.00049 J
T12-Trisnorhopane(TM)	0.00078 J	0.0012	0.0012 J	0.0015
S24-Methylcholestane	0.0011	0.0014	0.0012 J	0.0016
S25-Ethylcholestane	0.00051 J	0.00088 J	0.00067 J	0.00088 J
S28-Ethylcholestane	0.003	0.0024	0.0025	0.0031
T15-Norhopane	0.0024	0.0032	0.0026	0.0026
T18-Oleanane	0.0002 J	0.00057 J	0.00064 J	0.0009 J
T19-Hopane	0.0024	0.0033	0.0036	0.0042
T21-Homohopane	0.0012	0.0018	0.0017	0.0022
T22-Homohopane	0.0052	0.0037	0.0026	0.0034
Total S/T	0.018	0.02	0.018	0.022
5B(H)-Cholane	60	85	91	83
D66-Dotriacontane	NA	NA	NA	NA

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Lab ID	98D2096	98D2249	98D2194	98D2257
SDG	SDGS001	SDGS006	SDGS004	SDGS006
File	DZ6415.D	DZ6606.D	DY6153.D	DZ6615.D
Sample Type	SAMP	SAMP	SAMP	SAMP
Matrix	Sediment	Sediment	Sediment	Sediment
Sample Size	18.8 g	20.8 g	19.1 g	19.7 g
Weight Basis	DRY	DRY	DRY	DRY
Associated Blank	BV-S-80PB	BW-S-41PB	BV-S-97PB	BW-S-41PB
Field Date	7/1/1998	6/30/1998	6/30/1998	6/30/1998
Extract Date	9/10/1998	10/6/1998	9/25/1998	10/6/1998
Analysis Date	10/6/1998	10/20/1998	10/14/1998	10/20/1998
Min Reporting Limit	1.3	1	1	1
Units	ug/g	ug/g	ug/g	ug/g
BIOMARKER				
T4-C23Diterpane	ND	ND	0.001 J	ND
S4-Diacholestane	0.0008 J	0.00086 J	0.00086 J	0.00097 J
S5-Diacholestane	0.00048 J	0.00064 J	0.00064 J	0.00066 J
T9-C29Tricyclitriterpane	ND	ND	0.0003 J	ND
T10-C29Tricyclitriterpane	ND	ND	0.00026 J	ND
T11-Trisnorhopane(TS)	0.00049 J	0.00056 J	0.00092 J	0.0008 J
T12-Trisnorhopane(TM)	0.0014	0.001 J	0.0013	0.0011 J
S24-Methylcholestane	0.0016	0.0013	0.0014	0.0011 J
S25-Ethylcholestane	0.00092 J	0.0012	0.00095 J	0.00078 J
S28-Ethylcholestane	0.0028	0.0026	0.0025	0.0033
T15-Norhopane	0.0031	0.0028	0.0041	0.0034
T18-Oleanane	0.00081 J	0.00068 J	0.00089 J	0.00077 J
T19-Hopane	0.0042	0.0041	0.0049	0.0041
T21-Homohopane	0.0019	0.0023	0.0023	0.0023
T22-Homohopane	0.0031	0.0034	0.0033	0.0033
Total S/T	0.022	0.021	0.026	0.022
5B(H)-Cholane	90	81	64	81
D66-Dotriacontane	NA	NA	NA	NA

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Field ID	98-2-F4-01-00-PHC-S	98-2-F4-02-00-PHC-S	98-2-F4-03-00-PHC-S	98-2-16-01-00-PHC-S
Lab ID	98D2235	98D2234	98D2106	98D2104
SDG	SDGS004	SDGS004	SDGS001	SDGS001
File	DY6156.D	DY6155.D	DZ6425.D	DZ6423.D
Sample Type	SAMP	SAMP	SAMP	SAMP
Matrix	Sediment	Sediment	Sediment	Sediment
Sample Size	20.5 g	20 g	18.6 g	21.3 g
Weight Basis	DRY	DRY	DRY	DRY
Associated Blank	BV-S-97PB	BV-S-97PB	BV-S-80PB	BV-S-80PB
Field Date	7/1/1998	7/1/1998	7/1/1998	7/1/1998
Extract Date	9/25/1998	9/25/1998	9/10/1998	9/10/1998
Analysis Date	10/14/1998	10/14/1998	10/6/1998	10/6/1998
Min Reporting Limit	1	1	1.3	1.2
Units	ug/g	ug/g	ug/g	ug/g
BIOMARKER				
T4-C23Diterpane	0.0003 J	0.00036 J	ND	ND
S4-Diacholestane	0.0009 J	0.00085 J	0.00066 J	0.0005 J
S5-Diacholestane	0.0005 J	0.00062 J	0.00053 J	0.00036 J
T9-C29Tricyclitriterpane	0.00015 J	0.00017 J	ND	ND
T10-C29Tricyclitriterpane	0.00013 J	0.00019 J	ND	ND
T11-Trisnorhopane(TS)	0.00049 J	0.0011 J	0.0009 J	0.00054 J
T12-Trisnorhopane(TM)	0.00093 J	0.0013	0.0012 J	0.0012
S24-Methylcholestane	0.0012	0.0013	0.00048 J	0.0014
S25-Ethylcholestane	0.001 J	0.0013	0.00068 J	0.00066 J
S28-Ethylcholestane	0.0012	0.0022	0.0018	0.0027
T15-Norhopane	0.003	0.0038	0.0021	0.0025
T18-Oleanane	0.00065 J	0.00098 J	0.00064 J	0.00063 J
T19-Hopane	0.0037	0.0052	0.0034	0.0032
T21-Homohopane	0.0022	0.0028	0.0019	0.0016
T22-Homohopane	0.0026	0.003	0.0017	0.003
Total S/T	0.019	0.025	0.016	0.018
5B(H)-Cholane	58	66	87	84
D66-Dotriacontane	NA	NA	NA	NA

Arthur D. Little, Inc.

Environmental Monitoring and Analysis

Minerals Management Service - Shelikof Strait and Outermost Cook Inlet

1997 Final Data (Surrogate Corrected) - Surface Sediment - BIOMARKER

Field ID	98-2-17-01-00-PHC-S	98-2-19-01-00-PHC-S	98-2-20-01-00-PHC-S	98-2-21-01-00-PHC-S
Lab ID	98D2095REX	98D2097	98D2099	98D2105
SDG	SDGS001	SDGS001	SDGS001	SDGS001
File	DZ6618.D	DZ6417.D	DZ6419.D	DZ6424.D
Sample Type	SAMP	SAMP	SAMP	SAMP
Matrix	Sediment	Sediment	Sediment	Sediment
Sample Size	21.2 g	25.1 g	23.1 g	20.2 g
Weight Basis	DRY	DRY	DRY	DRY
Associated Blank	BW-S-41PB	BV-S-80PB	BV-S-80PB	BV-S-80PB
Field Date	7/1/1998	7/1/1998	7/1/1998	7/1/1998
Extract Date	10/6/1998	9/10/1998	9/10/1998	9/10/1998
Analysis Date	10/21/1998	10/6/1998	10/6/1998	10/6/1998
Min Reporting Limit	1	1	1.1	1.2
Units	ug/g	ug/g	ug/g	ug/g
BIOMARKER				
T4-C23Diterpane	ND	ND	ND	ND
S4-Diacholestane	0.00061 J	0.00042 J	0.00044 J	0.00073 J
S5-Diacholestane	0.00041 J	0.00036 J	0.00033 J	0.00049 J
T9-C29Tricyclitriterpane	ND	ND	ND	ND
T10-C29Tricyclitriterpane	ND	ND	ND	ND
T11-Trisnorhopane(TS)	0.00063 J	0.00046 J	0.00048 J	0.00074 J
T12-Trisnorhopane(TM)	0.0012	0.0012	0.001 J	0.0015
S24-Methylcholestane	0.0018	0.00086 J	0.00096 J	0.0016
S25-Ethylcholestane	0.00096 J	0.00061 J	0.00054 J	0.0011 J
S28-Ethylcholestane	0.0038	0.0028	0.0026	0.0037
T15-Norhopane	0.0036	0.0022	0.0022	0.0036
T18-Oleanane	0.00094 J	0.00042 J	0.00035 J	0.00079 J
T19-Hopane	0.0046	0.0024	0.0029	0.0047
T21-Homohopane	0.0023	0.0013	0.0014	0.0026
T22-Homohopane	0.0044	0.0038	0.0035	0.004
Total S/T	0.025	0.017	0.017	0.026
5B(H)-Cholane	89	84	72	91
D66-Dotriacontane	NA	NA	NA	NA

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Minerals Management Service - Shelikof Strait and Outermost Cook Inlet

1997 Final Data (Surrogate Corrected) - Surface Sediment - BIOMARKER

Field ID	98-2-23-01-00-PHC-S	98-3-F1-01-00-PHC-S	98-3-F1-01-00-PHC-S	98-3-F2-01-00-PHC-S
Lab ID	98D2103	98D2247	98D2247DUP	98D2248
SDG	SDGS001	SDGS006	SDGS006	SDGS006
File	DZ6422.D	DZ6603.D	DZ6604.D	DZ6605.D
Sample Type	SAMP	SAMP	QC	SAMP
Matrix	Sediment	Sediment	Sediment	Sediment
Sample Size	22.8 g	22.3 g	22.3 g	23.5 g
Weight Basis	DRY	DRY	DRY	DRY
Associated Blank	BV-S-80PB	BW-S-41PB	BW-S-41PB	BW-S-41PB
Field Date	7/1/1998	6/30/1998	6/30/1998	6/30/1998
Extract Date	9/10/1998	10/6/1998	10/6/1998	10/6/1998
Analysis Date	10/6/1998	10/20/1998	10/20/1998	10/20/1998
Min Reporting Limit	1.1	1	1	1
Units	ug/g	ug/g	ug/g	ug/g
BIOMARKER				
T4-C23Diterpane	ND	ND	ND	ND
S4-Diacholestane	0.00067 J	0.00072 J	0.00073 J	0.00069 J
S5-Diacholestane	0.00043 J	0.00063 J	0.00052 J	0.00051 J
T9-C29Tricyclitriterpane	ND	ND	ND	ND
T10-C29Tricyclitriterpane	ND	ND	ND	ND
T11-Trisnorhopane(TS)	0.00071 J	0.00043 J	0.0004 J	0.00034 J
T12-Trisnorhopane(TM)	0.0013	0.0013	0.0012	0.00099 J
S24-Methylcholestane	0.0014	0.0016	0.0013	0.0012
S25-Ethylcholestane	0.00086 J	0.00086 J	0.00095 J	0.00073 J
S28-Ethylcholestane	0.0038	0.0036	0.0035	0.0027
T15-Norhopane	0.0029	0.003	0.0034	0.0027
T18-Oleanane	0.00077 J	0.00059 J	0.00068 J	0.0005 J
T19-Hopane	0.0041	0.004	0.0044	0.0034
T21-Homohopane	0.0021	0.0021	0.0022	0.0015
T22-Homohopane	0.0041	0.0048	0.005	0.0039
Total S/T	0.023	0.024	0.024	0.019
5B(H)-Cholane	111	88	84	82
D66-Dotriacontane	NA	NA	NA	NA

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Environmental Monitoring and Analysis

Minerals Management Service - Shelikof Strait and Outermost Cook Inlet

1997 Final Data (Surrogate Corrected) - Surface Sediment - BIOMARKER

Field ID	98-3-F2-02-00-PHC-S	98-3-F2-03-00-PHC-S	98-3-7-01-00-PHC-S	98-3-11-01-00-PHC-S
Lab ID	98D2251	98D2254	98D2119	98D2124
SDG	SDGS006	SDGS006	SDGS002	SDGS002
File	DZ6608.D	DZ6612.D	DZ6328.D	DZ6334.D
Sample Type	SAMP	SAMP	SAMP	SAMP
Matrix	Sediment	Sediment	Sediment	Sediment
Sample Size	22.8 g	22.9 g	19.2 g	20 g
Weight Basis	DRY	DRY	DRY	DRY
Associated Blank	BW-S-41PB	BW-S-41PB	BV-S-83PB	BV-S-83PB
Field Date	6/30/1998	6/30/1998	6/28/1998	6/29/1998
Extract Date	10/6/1998	10/6/1998	9/14/1998	9/14/1998
Analysis Date	10/20/1998	10/20/1998	10/1/1998	10/1/1998
Min Reporting Limit	1	1	1.3	1.2
Units	ug/g	ug/g	ug/g	ug/g
BIOMARKER				
T4-C23Diterpane	ND	ND	ND	ND
S4-Diacholestane	0.00086 J	0.00053 J	0.00058 J	0.0024
S5-Diacholestane	0.00051 J	0.00042 J	0.0004 J	0.0013
T9-C29Tricyclitriterpane	ND	ND	ND	ND
T10-C29Tricyclitriterpane	ND	ND	ND	ND
T11-Trisnorhopane(TS)	0.00064 J	0.00046 J	0.00067 J	0.0033
T12-Trisnorhopane(TM)	0.0012	0.0012	0.0016	0.0045
S24-Methylcholestane	0.0015	0.0012	0.0012 J	0.0032
S25-Ethylcholestane	0.00081 J	0.00078 J	0.00092 J	0.00091 J
S28-Ethylcholestane	0.0038	0.0027	0.0035	0.012
T15-Norhopane	0.0034	0.0026	0.0038	0.013
T18-Oleanane	0.00043 J	0.00046 J	0.00076 J	0.0024
T19-Hopane	0.0041	0.0034	0.0043	0.016
T21-Homohopane	0.002	0.0016	0.0021	0.0053
T22-Homohopane	0.0048	0.0039	0.0062	0.0072
Total S/T	0.024	0.019	0.026	0.072
5B(H)-Cholane	82	88	80	71
D66-Dotriacontane	NA	NA	NA	NA

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Environmental Monitoring and Analysis

Minerals Management Service - Shelikof Strait and Outermost Cook Inlet

1997 Final Data (Surrogate Corrected) - Surface Sediment - BIOMARKER

Field ID	98-3-14-01-00-PHC-S	98-3-16-01-00-PHC-S	98-3-17-01-00-PHC-S	98-3-18-01-00-PHC-S
Lab ID	98D2127	98D2129	98D2130	98D2246
SDG	SDGS002	SDGS002	SDGS002	SDGS006
File	DZ6337.D	DZ6339.D	DZ6340.D	DZ6602.D
Sample Type	SAMP	SAMP	SAMP	SAMP
Matrix	Sediment	Sediment	Sediment	Sediment
Sample Size	20.4 g	21.1 g	23.2 g	21.3 g
Weight Basis	DRY	DRY	DRY	DRY
Associated Blank	BV-S-83PB	BV-S-83PB	BV-S-83PB	BW-S-41PB
Field Date	6/29/1998	6/29/1998	6/29/1998	6/30/1998
Extract Date	9/14/1998	9/14/1998	9/14/1998	10/6/1998
Analysis Date	10/1/1998	10/2/1998	10/2/1998	10/20/1998
Min Reporting Limit	1.2	1.2	1.1	1
Units	ug/g	ug/g	ug/g	ug/g
BIOMARKER				
T4-C23Diterpane	ND	ND	ND	ND
S4-Diacholestane	0.00083 J	0.00065 J	0.00075 J	0.00082 J
S5-Diacholestane	0.00048 J	0.00066 J	0.00047 J	0.00046 J
T9-C29Tricyclitriterpane	ND	ND	ND	ND
T10-C29Tricyclitriterpane	ND	ND	ND	ND
T11-Trisnorhopane(TS)	0.00044 J	0.00062 J	0.00072 J	0.00026 J
T12-Trisnorhopane(TM)	0.0016	0.0013	0.0012	0.0013
S24-Methylcholestane	0.0015	0.0014	0.0013	0.0014
S25-Ethylcholestane	0.00074 J	0.00097 J	0.00075 J	0.00082 J
S28-Ethylcholestane	0.0035	0.0031	0.0027	0.0038
T15-Norhopane	0.0032	0.0034	0.0032	0.0038
T18-Oleanane	0.00068 J	0.00068 J	0.00038 J	0.00062 J
T19-Hopane	0.0045	0.0043	0.0036	0.0047
T21-Homohopane	0.0025	0.0024	0.0018	0.0027
T22-Homohopane	0.0054	0.0047	0.0039	0.0056
Total S/T	0.025	0.024	0.021	0.026
5B(H)-Cholane	70	78	78	84
D66-Dotriacontane	NA	NA	NA	NA

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Minerals Management Service - Shelikof Strait and Outermost Cook Inlet

1997 Final Data (Surrogate Corrected) - Surface Sediment - BIOMARKER

Field ID	98-4-F1-01-00-PHC-S	98-4-F1-02-00-PHC-S	98-4-F1-03-00-PHC-S	98-4-F2-01-00-PHC-S
Lab ID	98D2252	98D2253	98D2250	98D2126
SDG	SDGS006	SDGS006	SDGS006	SDGS002
File	DZ6610.D	DZ6611.D	DZ6607.D	DZ6336.D
Sample Type	SAMP	SAMP	SAMP	SAMP
Matrix	Sediment	Sediment	Sediment	Sediment
Sample Size	21.3 g	21.6 g	20.8 g	19.4 g
Weight Basis	DRY	DRY	DRY	DRY
Associated Blank	BW-S-41PB	BW-S-41PB	BW-S-41PB	BV-S-83PB
Field Date	6/30/1998	6/30/1998	6/30/1998	6/28/1998
Extract Date	10/6/1998	10/6/1998	10/6/1998	9/14/1998
Analysis Date	10/20/1998	10/20/1998	10/20/1998	10/1/1998
Min Reporting Limit	1	1	1	1.3
Units	ug/g	ug/g	ug/g	ug/g
BIOMARKER				
T4-C23Diterpane	ND	ND	ND	ND
S4-Diacholestane	0.00066 J	0.00075 J	0.00073 J	0.00072 J
S5-Diacholestane	0.00048 J	0.00047 J	0.00046 J	0.0005 J
T9-C29Tricyclitriterpane	ND	ND	ND	ND
T10-C29Tricyclitriterpane	ND	ND	ND	ND
T11-Trisnorhopane(TS)	0.00038 J	0.00046 J	0.00039 J	0.00068 J
T12-Trisnorhopane(TM)	0.0012	0.0013	0.0014	0.0015
S24-Methylcholestane	0.001 J	0.0011 J	0.0012	0.0013
S25-Ethylcholestane	0.00065 J	0.0009 J	0.00098 J	0.00068 J
S28-Ethylcholestane	0.0032	0.0036	0.0039	0.0036
T15-Norhopane	0.0034	0.0035	0.0039	0.0036
T18-Oleanane	0.00064 J	0.00082 J	0.00066 J	0.00048 J
T19-Hopane	0.004	0.0047	0.0046	0.0044
T21-Homohopane	0.002	0.0024	0.0023	0.002
T22-Homohopane	0.0056	0.0059	0.0062	0.0052
Total S/T	0.023	0.026	0.027	0.025
5B(H)-Cholane	82	81	85	86
D66-Dotriacontane	NA	NA	NA	NA

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Environmental Monitoring and Analysis

Minerals Management Service - Shelikof Strait and Outermost Cook Inlet

1997 Final Data (Surrogate Corrected) - Surface Sediment - BIOMARKER

Field ID	98-4-F2-02-00-PHC-S	98-4-F2-03-00-PHC-S	98-4-F4-01-00-PHC-S	98-4-F4-02-00-PHC-S
Lab ID	98D2123	98D2120	98D2255	98D2256
SDG	SDGS002	SDGS002	SDGS006	SDGS006
File	DZ6332.D	DZ6329.D	DZ6613.D	DZ6614.D
Sample Type	SAMP	SAMP	SAMP	SAMP
Matrix	Sediment	Sediment	Sediment	Sediment
Sample Size	19.2 g	19.4 g	21.3 g	20.6 g
Weight Basis	DRY	DRY	DRY	DRY
Associated Blank	BV-S-83PB	BV-S-83PB	BW-S-41PB	BW-S-41PB
Field Date	6/28/1998	6/28/1998	6/30/1998	6/30/1998
Extract Date	9/14/1998	9/14/1998	10/6/1998	10/6/1998
Analysis Date	10/1/1998	10/1/1998	10/20/1998	10/20/1998
Min Reporting Limit	1.3	1.3	1	1
Units	ug/g	ug/g	ug/g	ug/g
BIOMARKER				
T4-C23Diterpane	ND	ND	ND	ND
S4-Diacholestane	0.00077 J	0.00061 J	0.00057 J	0.00084 J
S5-Diacholestane	0.00038 J	0.00059 J	0.00038 J	0.00062 J
T9-C29Tricyclitriterpane	ND	ND	ND	ND
T10-C29Tricyclitriterpane	ND	ND	ND	ND
T11-Trisnorhopane(TS)	0.00046 J	0.00062 J	0.00042 J	0.00062 J
T12-Trisnorhopane(TM)	0.0014	0.0016	0.0012	0.0012
S24-Methylcholestane	0.0015	0.0015	0.00091 J	0.0014
S25-Ethylcholestane	0.0011 J	0.0012 J	0.00063 J	0.0011 J
S28-Ethylcholestane	0.0031	0.0041	0.003	0.0034
T15-Norhopane	0.0036	0.0044	0.0028	0.0039
T18-Oleanane	0.00073 J	0.0011 J	0.00069 J	0.00085 J
T19-Hopane	0.004	0.0049	0.0038	0.0048
T21-Homohopane	0.0022	0.0028	0.0021	0.0028
T22-Homohopane	0.0055	0.0063	0.0048	0.006
Total S/T	0.025	0.03	0.021	0.028
5B(H)-Cholane	78	82	81	87
D66-Dotriacontane	NA	NA	NA	NA