

Arthur D. Little, Inc.

Environmental Monitoring and Analysis

Minerals Management Service - Shelikof Strait and Outermost Cook Inlet

1997 Final Data (Surrogate Corrected) - Source Samples - BIOMARKER

Field ID	AUGUSTINE IS.	CLC-1	CR-5	HOMER COAL
Lab ID	98D2090REX	98D1406	98D1439	98D2275
SDG	SDGS001	SDGO001	SDGS001	SDGO001
File	DZ6617.D	DZ7132.D	DZ6410.D	DZ7136.D
Sample Type	SAMP	SAMP	SAMP	SAMP
Matrix	Sediment	Coal	Sediment	Coal
Sample Size	26.8 g	4.73 g	37.1 g	4.18 g
Weight Basis	DRY	DRY	DRY	DRY
Associated Blank	BW-S-41PB	BX-S-29PB	BV-S-80PB	BX-S-29PB
Field Date	7/4/1998	5/16/1998	5/16/1998	7/7/1998
Extract Date	10/6/1998	10/21/1998	9/10/1998	10/21/1998
Analysis Date	10/21/1998	11/23/1998	10/6/1998	11/23/1998
Min Reporting Limit	1	5.3	0.67	6
Units	ug/g	ug/g	ug/g	ug/g
BIOMARKER				
T4-C23Diterpane	ND	ND	ND	ND
S4-Diacholestane	0.00044 J	ND	ND	ND
S5-Diacholestane	0.00032 J	ND	ND	ND
T9-C29Tricyclitriterpane	ND	ND	ND	ND
T10-C29Tricyclitriterpane	ND	ND	ND	ND
T11-Trisnorhopane(TS)	0.00031 J	ND	0.00014 J	0.086
T12-Trisnorhopane(TM)	0.00093	0.02	0.00028 J	0.067
S24-Methylcholestane	0.00078 J	0.0093	0.00016 J	0.013
S25-Ethylcholestane	0.00056 J	0.023	0.00014 J	0.013
S28-Ethylcholestane	0.003	0.064	0.00053 J	0.23
T15-Norhopane	0.0028	0.023	0.00033 J	0.62
T18-Oleanane	0.00019 J	ND	0.000062 J	0.04
T19-Hopane	0.0027	0.04	0.00042 J	0.7
T21-Homohopane	0.0011	0.091	0.00038 J	0.24
T22-Homohopane	0.0057	0.064	0.00028 J	0.052
Total S/T	0.019	0.33	0.0027	2.1
5B(H)-Cholane	79	74	80	107
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) - Source Samples - BIOMARKER

Field ID	Matanuska River	MC-1	Ninilchik Coal	SSCOAL 4
Lab ID	98D1438	98D1407	98D2276	98D2315
SDG	SDGS001	SDGO001	SDGO001	SDGO001
File	DZ6409.D	DZ7133.D	DZ7137.D	DZ7138.D
Sample Type	SAMP	SAMP	SAMP	SAMP
Matrix	Sediment	Coal	Coal	Coal
Sample Size	31.3 g	4.86 g	3.62 g	3.66 g
Weight Basis	DRY	DRY	DRY	DRY
Associated Blank	BV-S-80PB	BX-S-29PB	BX-S-29PB	BX-S-29PB
Field Date	5/13/1998	5/16/1998	7/7/1998	6/22/1998
Extract Date	9/10/1998	10/21/1998	10/21/1998	10/21/1998
Analysis Date	10/5/1998	11/23/1998	11/23/1998	11/23/1998
Min Reporting Limit	0.8	5.1	6.9	6.8
Units	ug/g	ug/g	ug/g	ug/g
BIOMARKER				
T4-C23Diterpane	ND	0.0022 J	ND	ND
S4-Diacholestane	ND	ND	ND	ND
S5-Diacholestane	ND	ND	ND	ND
T9-C29Tricyclitriterpane	ND	ND	ND	ND
T10-C29Tricyclitriterpane	ND	ND	ND	ND
T11-Trisnorhopane(TS)	0.00018 J	ND	0.0068 J	0.026
T12-Trisnorhopane(TM)	0.00062 J	0.15	0.025	0.045
S24-Methylcholestane	0.0003 J	0.027	0.012	0.0086
S25-Ethylcholestane	0.0004 J	0.039	0.003 J	0.0026 J
S28-Ethylcholestane	0.0009	0.18	0.2	0.63
T15-Norhopane	0.0012	0.13	0.27	0.32
T18-Oleanane	ND	ND	0.03	0.089
T19-Hopane	0.0015	0.22	0.11	0.15
T21-Homohopane	0.00072 J	0.68	0.22	0.46
T22-Homohopane	0.00059 J	0.48	0.076	0.065
Total S/T	0.0064	1.9	0.95	1.8
5B(H)-Cholane	79	92	88	76
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) - Source Samples - BIOMARKER

Field ID	SSCOAL 5	98-0-WC-01-00-OIL	98-0-WC-02-00-OIL
Lab ID	98D2316	98D2273	98D2274
SDG	SDGO001	SDGO001	SDGO001
File	DZ7139.D	DZ7134.D	DZ7135.D
Sample Type	SAMP	SAMP	SAMP
Matrix	Coal	Oil	Oil
Sample Size	3.64 g	5.01 mg	5.07 mg
Weight Basis	DRY	OIL	OIL
Associated Blank	BX-S-29PB	BX-S-29PB	BX-S-29PB
Field Date	6/22/1998	7/7/1998	7/7/1998
Extract Date	10/21/1998	10/21/1998	10/21/1998
Analysis Date	11/23/1998	11/23/1998	11/23/1998
Min Reporting Limit	6.9	5	4.9
Units	ug/g	mg/Kg	mg/Kg
BIOMARKER			
T4-C23Diterpane	ND	16	15
S4-Diacholestane	0.0013 J	37	42
S5-Diacholestane	0.00076 J	25	28
T9-C29Tricyclitriterpane	ND	ND	ND
T10-C29Tricyclitriterpane	ND	ND	ND
T11-Trisnorhopane(TS)	0.026	22	22
T12-Trisnorhopane(TM)	0.032	10	10
S24-Methylcholestane	0.007	13	14
S25-Ethylcholestane	0.0036 J	20	24
S28-Ethylcholestane	0.36	22	23
T15-Norhopane	0.186	14	12
T18-Oleanane	0.042	ND	ND
T19-Hopane	0.112	38	38
T21-Homohopane	0.34	17	16
T22-Homohopane	0.034	11	8.9
Total S/T	1.1	250	250
5B(H)-Cholane	70	92	83
D66-Dotriacontane	NA	NA	NA