

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	97-BB-01-01-00-PHC-C	97-CR-01-01-00-PHC-S	97-CT-01-01-00-PHC-O	97-HH-01-01-00-PHC-S
Lab ID	97C3660DL	97C1164	97C2281	97C1257
SDG	SDGSOD	SDGSOD	SDGSOD	SDGS008
File	DY7269.D	DX6557.D	DY7264.D	DZ2368.D
Sample Type	SAMP	SAMP	SAMP	SAMP
Matrix	Coal	Sediment	Oil	Sediment
Sample Size	23.2 g	23.2 g	5.05 mg	18.2 g
Weight Basis	DRY	DRY	OIL	DRY
Associated Blank	BP-S-30PB	BP-S-35PB	BP-S-35PB	BL-S-07PB
Field Date	11/9/1997	7/15/1997	8/14/1997	7/16/1997
Extract Date	12/23/1997	12/23/1997	12/18/1997	8/6/1997
Analysis Date	1/15/1998	1/11/1998	1/15/1998	9/14/1997
Min Reporting Limit	0.011	0.0011	5	0.0014
Units	ug/g	ug/g	ug/g	ug/g
BIOMARKER				
T4-C23Diterpane	ND	0.000066 J	6.3	ND
S4-Diacholestane	0.0027 J	ND	43	0.00041 J
S5-Diacholestane	0.00056 J	ND	30	0.00026 J
T9-C29Tricyclitriterpane	ND	ND	ND	ND
T10-C29Tricyclitriterpane	0.0025 J	ND	ND	ND
T11-Trisnorhopane(TS)	0.028	0.000076 J	19	0.0058
T12-Trisnorhopane(TM)	0.019	0.00011 J	14	0.0052
S24-Methylcholestane	0.013	ND	19	0.0089
S25-Ethylcholestane	0.009	ND	36	0.0068
S28-Ethylcholestane	0.052	0.00023 J	39	0.032
T15-Norhopane	0.45	0.00034 JB	56	0.1
T18-Oleanane	0.018	ND	ND	0.0029
T19-Hopane	0.015	0.00036 JB	110	0.0069
T21-Homohopane	0.017	0.00015 JB	41	0.0028
T22-Homohopane	0.83	0.00019 JB	30	0.082
Total S/T	1.5	0.0015	440	0.25
5B(H)-Cholane	144 &	88	93	65
D66-Dotriacontane	53	97	94	72

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Field ID	97-PW-01-01-00-PHC- FE	97-S-01-01-00-PHC-S	97-TB-01-01-00-PHC- PW	97-HH-01-01-04-PHC- S
Lab ID	97C1975	97C1540	97C2282	97C1256
SDG	SDGW001	SDGSOD	SDGW002	SDGS008
File	DX5191.D	DY7266.D	DX5194.D	DZ2367.D
Sample Type	SAMP	SAMP	SAMP	SAMP
Matrix	Water	Sediment	Produced Water	Sediment
Sample Size	1.08 L	24.6 NA	0.94 L	19.2 g
Weight Basis	VOLUME	DRY	VOLUME	DRY
Associated Blank	BL-S-81PB	BP-S-35PB	BM-S-29PB	BL-S-07PB
Field Date	8/12/1997	7/26/1997	8/26/1997	7/16/1997
Extract Date	8/18/1997	12/18/1997	9/2/1997	8/6/1997
Analysis Date	9/25/1997	1/15/1998	9/25/1997	9/14/1997
Min Reporting Limit	0.023	0.001	0.026	0.0013
Units	ug/L	ug/g	ug/L	ug/g
BIOMARKER				
T4-C23Diterpane	0.039	ND	0.056	ND
S4-Diacholestane	0.073	ND	0.64	0.00065 J
S5-Diacholestane	0.043	ND	0.34	0.00028 J
T9-C29Tricyclitriterpane	0.02 J	ND	0.034	ND
T10-C29Tricyclitriterpane	0.016 J	ND	0.023 J	ND
T11-Trisnorhopane(TS)	0.081	ND	0.34	0.0063
T12-Trisnorhopane(TM)	0.054	0.00016 J	0.3	0.006
S24-Methylcholestane	0.084	ND	0.26	0.0096
S25-Ethylcholestane	0.032	ND	0.39	0.0074
S28-Ethylcholestane	0.22	ND	0.48	0.026
T15-Norhopane	0.24	0.00024 JB	0.78	0.11
T18-Oleanane	0.023 J	ND	ND	0.0028
T19-Hopane	0.27	0.0002 JB	1.6	0.0079
T21-Homohopane	0.08	ND	0.58	0.0031
T22-Homohopane	0.059	0.00061 JB	0.39	0.089
Total S/T	1.3	0.0012	6.2	0.27
5B(H)-Cholane	74	79	77	57
D66-Dotriacontane	95	79	73	64

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Field ID	97-S-01-02-00-PHC-S	97-CR-02-01-00-PHC-S	97-RV-02-01-00-PHC-O	97-CR-03-01-00-PHC-S
Lab ID	97C1541	97C1165	97C1440	97C1166
SDG	SDGSOD	SDGSOD	SDGSOD	SDGSOD
File	DY7265.D	DX6558.D	DX6561.D	DX6559.D
Sample Type	SAMP	SAMP	SAMP	SAMP
Matrix	Sediment	Sediment	Diesel Fuel	Sediment
Sample Size	21.3 g	22.1 g	5.37 mg	22.2 g
Weight Basis	DRY	DRY	OIL	DRY
Associated Blank	BP-S-35PB	BP-S-35PB	BP-S-35PB	BP-S-35PB
Field Date	7/26/1997	7/15/1997	7/16/1997	7/15/1997
Extract Date	12/23/1997	12/23/1997	12/23/1997	12/23/1997
Analysis Date	1/15/1998	1/11/1998	1/11/1998	1/11/1998
Min Reporting Limit	0.0012	0.0011	4.8	0.0011
Units	ug/g	ug/g	ug/g	ug/g
BIOMARKER				
T4-C23Diterpane	ND	0.000061 J	4.6 J	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)	ND	0.00006 J	ND	0.00011 JB
T12-Trisnorhopane(TM)	ND	0.000099 J	ND	0.00013 JB
S24-Methylcholestane	ND	ND	ND	ND
S25-Ethylcholestane	ND	ND	ND	ND
S28-Ethylcholestane	ND	0.00014 J	ND	0.00015 JB
T15-Norhopane	ND	0.00026 JB	ND	0.00028 JB
T18-Oleanane	ND	ND	ND	ND
T19-Hopane	ND	0.00038 JB	ND	0.00034 JB
T21-Homohopane	ND	0.00012 JB	ND	0.00011 JB
T22-Homohopane	ND	0.00012 JB	ND	0.000074 JB
Total S/T	NA	0.0012	4.6	0.0012
5B(H)-Cholane	76	80	93	86
D66-Dotriacontane	80	88	78	82

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Field ID	97-CR-04-01-00-PHC-S
Lab ID	97C1167
SDG	SDGSOD
File	DX6560.D
Sample Type	SAMP
Matrix	Sediment
Sample Size	22 g
Weight Basis	DRY
Associated Blank	BP-S-35PB
Field Date	7/15/1997
Extract Date	12/23/1997
Analysis Date	1/11/1998
Min Reporting Limit	0.0011
Units	ug/g

BIOMARKER		
T4-C23Diterpane	0.000097	JB
S4-Diacholestane		ND
S5-Diacholestane		ND
T9-C29Tricyclitriterpane		ND
T10-C29Tricyclitriterpane		ND
T11-Trisnorhopane(TS)	0.000075	JB
T12-Trisnorhopane(TM)	0.00013	JB
S24-Methylcholestane		ND
S25-Ethylcholestane		ND
S28-Ethylcholestane	0.00018	JB
T15-Norhopane	0.00031	JB
T18-Oleanane		ND
T19-Hopane	0.00037	JB
T21-Homohopane	0.000096	JB
T22-Homohopane	0.00011	JB
Total S/T	0.0014	
5B(H)-Cholane	89	
D66-Dotriacontane	78	