

Project Title : MMS - AMINIDA - PHASE II  
Data Package: 4000  
Data Table: Main - Surrogate Corrected

Field ID	01-3A-02-2-PHC-SC	01-3A-02-4-PHC-SC	01-3A-02-6-PHC-SC	01-3A-02-10-PHC-SC
Lab ID	21A1901	21A1902	21A1903	21A1905
Lab Batch	B2140	B2140	B2140	B2140
SDG	ICF3998	ICF3998	ICF3998	ICF3998
File	W1196.D	W1197.D	W1199.D	W1200.D
Sample Type	N	N	N	N
Matrix	SEDIMENT	SEDIMENT	SEDIMENT	SEDIMENT
Sample Size	21.91 g	22.78 g	23.48 g	24.45 g
Weight Basis	DRY	DRY	DRY	DRY
Associated Blank	DW-S-31PB	DW-S-31PB	DW-S-31PB	DW-S-31PB
Field Date	08/03/01	08/03/01	08/03/01	08/03/01
Extract Date	07/18/02	07/18/02	07/18/02	07/18/02
Analysis Date	07/25/02	07/26/02	07/26/02	07/26/02
Date Received	08/09/01	08/09/01	08/09/01	08/09/01
Percent Solids	72.9	75.9	78.2	81.5
Dilution Factor	1	1	1	1
Percent Lipids	NA	NA	NA	NA
Report Method	8270M-ST	8270M-ST	8270M-ST	8270M-ST
Min Reporting Limit	1.1	1.1	1.1	1
Units	ug/Kg	ug/Kg	ug/Kg	ug/Kg

Sterane-Triterpane Biomarkers				
T4-C23Diterpane	0.63 J	0.66 J	0.56 J	0.44 J
S4-Diacholestane	0.98 J	0.99 J	0.85 J	0.66 J
S5-Diacholestane	0.61 J	0.64 J	0.57 J	0.43 J
T9-C29Tricyclitriterpane	0.24 J	0.25 J	0.19 J	0.16 J
T10-C29Tricyclitriterpane	0.4 J	0.33 J	0.32 J	0.24 J
T11-Trisnorhopane(TS)	0.95 J	0.67 J	0.5 J	0.41 J
T12-Trisnorhopane(TM)	2	2.1	1.8	1.5
S24-Methylcholestane	2	2.2	1.8	1.4
S25-Ethylcholestane	1.1	0.94 J	0.83 J	0.75 J
S28-Ethylcholestane	11	12	10	7.4
T15-Norhopane	4.4	5.6	4.2	4
T18-Oleanane	0.46 J	0.35 J	0.32 J	0.24 J
T19-Hopane	6.1	6.6	5.9	5.1
T21-Homohopane	3	3	2.8	2
T22-Homohopane	3.7	3.8	3.2	2.9
D66-Dotriacontane	86	92	84	86

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Field ID	01-3A-02-16-PHC-SC	01-3A-02-20-PHC-SC	01-6A-01-2-PHC-SC	01-6A-01-4-PHC-SC
Lab ID	21A1908	21A1910	21A1992	21A1993
Lab Batch	B2140	B2140	B2140	B2140
SDG	ICF3998	ICF3998	ICF3998	ICF3998
File	W1201.D	W1202.D	W1206.D	W1207.D
Sample Type	N	N	N	N
Matrix	SEDIMENT	SEDIMENT	SEDIMENT	SEDIMENT
Sample Size	23.81 g	23.45 g	20.49 g	21.73 g
Weight Basis	DRY	DRY	DRY	DRY
Associated Blank	DW-S-31PB	DW-S-31PB	DW-S-31PB	DW-S-31PB
Field Date	08/03/01	08/03/01	07/30/01	07/30/01
Extract Date	07/18/02	07/18/02	07/18/02	07/18/02
Analysis Date	07/26/02	07/26/02	07/26/02	07/26/02
Date Received	08/09/01	08/09/01	08/09/01	08/09/01
Percent Solids	79.3	78	68.3	72.3
Dilution Factor	1	1	1	1
Percent Lipids	NA	NA	NA	NA
Report Method	8270M-ST	8270M-ST	8270M-ST	8270M-ST
Min Reporting Limit	1	1.1	1.2	1.2
Units	ug/Kg	ug/Kg	ug/Kg	ug/Kg

### Sterane-Triterpane Biomarkers

T4-C23Diterpane	0.47 J	0.64 J	0.79 J	0.62 J
S4-Diacholestane	0.79 J	0.98 J	1.2	0.97 J
S5-Diacholestane	0.49 J	0.63 J	0.9 J	0.82 J
T9-C29Tricyclitriterpane	0.18 J	0.23 J	0.24 J	0.26 J
T10-C29Tricyclitriterpane	0.29 J	0.37 J	0.33 J	0.32 J
T11-Trisnorhopane(TS)	0.53 J	0.64 J	1 J	0.66 J
T12-Trisnorhopane(TM)	1.8	2	6.1	5
S24-Methylcholestane	1.5	1.8	8.3	7.5
S25-Ethylcholestane	0.98 J	1 J	1.5	1.2
S28-Ethylcholestane	10	14	39	37
T15-Norhopane	5	5.7	9.9	8.5
T18-Oleanane	0.29 J	0.34 J	ND	ND
T19-Hopane	6.2	6.8	14	11
T21-Homohopane	2.5	3	4.7	3.8
T22-Homohopane	3.8	3.7	17	13
D66-Dotriacontane	78	85	82	87

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Field ID	01-6A-01-6-PHC-SC	01-6A-01-10-PHC-SC	01-6A-01-14-PHC-SC	01-6A-01-18-PHC-SC
Lab ID	21A1994	21A1996	21A1998	21A2000
Lab Batch	B2140	B2140	B2140	B2140
SDG	ICF3998	ICF3998	ICF3998	ICF3998
File	W1208.D	W1209.D	W1210.D	W1212.D
Sample Type	N	N	N	N
Matrix	SEDIMENT	SEDIMENT	SEDIMENT	SEDIMENT
Sample Size	22.64 g	23.57 g	24.87 g	23.91 g
Weight Basis	DRY	DRY	DRY	DRY
Associated Blank	DW-S-31PB	DW-S-31PB	DW-S-31PB	DW-S-31PB
Field Date	07/30/01	07/30/01	07/30/01	07/30/01
Extract Date	07/18/02	07/18/02	07/18/02	07/18/02
Analysis Date	07/26/02	07/26/02	07/26/02	07/27/02
Date Received	08/09/01	08/09/01	08/09/01	08/09/01
Percent Solids	75.4	78.5	82.9	79.6
Dilution Factor	1	1	1	1
Percent Lipids	NA	NA	NA	NA
Report Method	8270M-ST	8270M-ST	8270M-ST	8270M-ST
Min Reporting Limit	1.1	1.1	1	1
Units	ug/Kg	ug/Kg	ug/Kg	ug/Kg

Sterane-Triterpane Biomarkers				
T4-C23Diterpane	0.61 J	0.59 J	0.41 J	0.46 J
S4-Diacholestane	0.89 J	0.82 J	0.54 J	0.64 J
S5-Diacholestane	0.56 J	0.61 J	0.33 J	0.41 J
T9-C29Tricyclitriterpane	0.23 J	0.22 J	0.15 J	0.16 J
T10-C29Tricyclitriterpane	0.26 J	0.32 J	0.24 J	0.27 J
T11-Trisnorhopane(TS)	0.58 J	0.71 J	0.43 J	0.41 J
T12-Trisnorhopane(TM)	3.4	4	2.4	2.2
S24-Methylcholestane	3.2	3.9	1.9	1.9
S25-Ethylcholestane	0.94 J	1.1	0.64 J	0.73 J
S28-Ethylcholestane	20	23	13	13
T15-Norhopane	6.5	8.2	5.4	5.7
T18-Oleanane	ND	ND	ND	ND
T19-Hopane	8.6	10	6.7	6.6
T21-Homohopane	3.3	4.9	3.2	2.5
T22-Homohopane	8.4	10	6	6.6
D66-Dotriacontane	81	82	80	78

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Field ID	01-6G-01-2-PHC-SC	01-6G-01-4-PHC-SC	01-6G-01-6-PHC-SC	01-6G-01-8-PHC-SC
Lab ID	21A1935	21A1936 REF	21A1937	21A1938
Lab Batch	B2103	B2103	B2103	B2103
SDG	ICF3952	ICF3952	ICF3952	ICF3952
File	W0662.D	W0715.D	W0664.D	W0665.D
Sample Type	N	N	N	N
Matrix	SEDIMENT	SEDIMENT	SEDIMENT	SEDIMENT
Sample Size	17.89 g	21.15 g	21.77 g	21.75 g
Weight Basis	DRY	DRY	DRY	DRY
Associated Blank	DU-S-65PB	DU-S-65PB	DU-S-65PB	DU-S-65PB
Field Date	07/30/01	07/30/01	07/30/01	07/30/01
Extract Date	05/14/02	05/14/02	05/14/02	05/14/02
Analysis Date	06/03/02	06/08/02	06/03/02	06/03/02
Date Received	08/09/01	08/09/01	08/09/01	08/09/01
Percent Solids	59.6	70.3	72.4	72.4
Dilution Factor	1	1	1	1
Percent Lipids	NA	NA	NA	NA
Report Method	8270M-ST	8270M-ST	8270M-ST	8270M-ST
Min Reporting Limit	1.4	1.2	1.1	1.1
Units	ug/Kg	ug/Kg	ug/Kg	ug/Kg

Sterane-Triterpane Biomarkers				
T4-C23Diterpane	1.9	0.84 J	0.69 J	0.62 J
S4-Diacholestane	2.3	0.96 J	0.81 J	0.79 J
S5-Diacholestane	1.7	0.62 J	0.52 J	0.53 J
T9-C29Tricyclitriterpane	ND	ND	ND	ND
T10-C29Tricyclitriterpane	ND	ND	ND	ND
T11-Trisnorhopane(TS)	2.4	0.84 J	0.82 J	0.75 J
T12-Trisnorhopane(TM)	14	5.6	4.6	4.1
S24-Methylcholestane	15	4.6	3.5	3
S25-Ethylcholestane	2.1	0.85 J	0.88 J	0.76 J
S28-Ethylcholestane	80	37	31	28
T15-Norhopane	27	15	11	8.2
T18-Oleanane	ND	ND	ND	ND
T19-Hopane	28	12	9.9	8.8
T21-Homohopane	12	5.7	4.3	3.8
T22-Homohopane	39	24	19	19
D66-Dotriacontane	70	71	74	73

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Lab ID	21A1939	21A1940	21A1941	21A1942
Lab Batch	B2103	B2103	B2103	B2103
SDG	ICF3952	ICF3952	ICF3952	ICF3952
File	W0666.D	W0667.D	W0668.D	W0669.D
Sample Type	N	N	N	N
Matrix	SEDIMENT	SEDIMENT	SEDIMENT	SEDIMENT
Sample Size	21.36 g	21.24 g	21.88 g	21.55
Weight Basis	DRY	DRY	DRY	DRY
Associated Blank	DU-S-65PB	DU-S-65PB	DU-S-65PB	DU-S-65PB
Field Date	07/30/01	07/30/01	07/30/01	07/30/01
Extract Date	05/14/02	05/14/02	05/14/02	05/14/02
Analysis Date	06/03/02	06/03/02	06/03/02	06/03/02
Date Received	08/09/01	08/09/01	08/09/01	08/09/01
Percent Solids	71.1	70.7	72.7	71.8
Dilution Factor	1	1	1	1
Percent Lipids	NA	NA	NA	NA
Report Method	8270M-ST	8270M-ST	8270M-ST	8270M-ST
Min Reporting Limit	1.2	1.2	1.1	1.2
Units	ug/Kg	ug/Kg	ug/Kg	ug/Kg

Sterane-Triterpane Biomarkers				
T4-C23Diterpane	0.66 J	0.71 J	0.61 J	0.72
S4-Diacholestane	0.81 J	0.9 J	0.85 J	0.89
S5-Diacholestane	0.54 J	0.56 J	0.51 J	0.6
T9-C29Tricyclitriterpane	ND	ND	ND	
T10-C29Tricyclitriterpane	ND	ND	ND	
T11-Trisnorhopane(TS)	0.82 J	0.89 J	0.84 J	0.76
T12-Trisnorhopane(TM)	4.3	4.1	4	5
S24-Methylcholestane	3.2	3.3	3	4.5
S25-Ethylcholestane	0.78 J	1.2	0.91 J	0.89
S28-Ethylcholestane	29	29	36	38
T15-Norhopane	7.9	9.3	10	12
T18-Oleanane	ND	ND	ND	
T19-Hopane	9.4	9.6	9.1	10
T21-Homohopane	4.4	3.6	4.3	5.6
T22-Homohopane	21	16	18	24
D66-Dotriacontane	76	71	70	78

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Field ID	01-6G-01-18-PHC-SC	01-6G-01-20-PHC-SC	01-E01-01-2-PHC-SC	01-E01-01-4-PHC-SC
Lab ID	21A1943	21A1944	21A1883	21A1884
Lab Batch	B2103	B2103	B2102	B2102
SDG	ICF3952	ICF3952	ICF3949	ICF3949
File	W0673.D	W0674.D	W0605.D	W0606.D
Sample Type	N	N	N	N
Matrix	SEDIMENT	SEDIMENT	SEDIMENT	SEDIMENT
Sample Size	g 20.94 g	21.06 g	g 19.63 g	22.4
Weight Basis	DRY	DRY	DRY	DRY
Associated Blank	DU-S-65PB	DU-S-65PB	DU-S-62PB	DU-S-62PB
Field Date	07/30/01	07/30/01	08/04/01	08/04/01
Extract Date	05/14/02	05/14/02	05/10/02	05/10/02
Analysis Date	06/04/02	06/04/02	05/30/02	05/30/02
Date Received	08/09/01	08/09/01	08/09/01	08/09/01
Percent Solids	69.8	70	65.3	74.6
Dilution Factor	1	1	1	1
Percent Lipids	NA	NA	NA	NA
Report Method	8270M-ST	8270M-ST	8270M-ST	8270M-ST
Min Reporting Limit	1.2	1.2	1.3	1.1
Units	ug/Kg	ug/Kg	ug/Kg	ug/Kg

### Sterane-Triterpane Biomarkers

T4-C23Diterpane	J	0.94 J	0.58 J	0.87 J	0.46
S4-Diacholestane	J	1 J	0.8 J	1.6	0.97
S5-Diacholestane	J	0.72 J	0.47 J	0.93 J	0.5
T9-C29Tricyclitriterpane	ND	ND	ND	0.24 J	0.16
T10-C29Tricyclitriterpane	ND	ND	ND	0.32 J	0.17
T11-Trisnorhopane(TS)	J	0.72 J	0.6 J	1 J	0.6
T12-Trisnorhopane(TM)		6.4	4.7	3.1	1.5
S24-Methylcholestane		5.6	3.7	3.7	1.4
S25-Ethylcholestane	J	1.2	0.96 J	1.9	0.67
S28-Ethylcholestane		47	28	16	7.3
T15-Norhopane		15	11	7.8	3.7
T18-Oleanane	ND	ND	ND	0.91 J	0.5
T19-Hopane		14	9.5	9.8	4.8
T21-Homohopane		6.9	4.8	3.8	1.5
T22-Homohopane		30	22	11	7.9
D66-Dotriacontane		47	73	76	76

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Field ID	01-E01-01-6-PHC-SC	01-E01-01-8-PHC-SC	01-E01-01-10-PHC-SC	01-E01-01-12-PHC-SC
Lab ID	21A1885	21A1886	21A1887	21A1888
Lab Batch	B2102	B2102	B2102	B2102
SDG	ICF3949	ICF3949	ICF3949	ICF3949
File	W0607.D	W0608.D	W0609.D	W0610.D
Sample Type	N	N	N	N
Matrix	SEDIMENT	SEDIMENT	SEDIMENT	SEDIMENT
Sample Size	g 22.93 g	24.52 g	22.89 g	24.73
Weight Basis	DRY	DRY	DRY	DRY
Associated Blank	DU-S-62PB	DU-S-62PB	DU-S-62PB	DU-S-62PB
Field Date	08/04/01	08/04/01	08/04/01	08/04/01
Extract Date	05/10/02	05/10/02	05/10/02	05/10/02
Analysis Date	05/30/02	05/30/02	05/31/02	05/31/02
Date Received	08/09/01	08/09/01	08/09/01	08/09/01
Percent Solids	76.3	81.5	76.2	82.2
Dilution Factor	1	1	1	1
Percent Lipids	NA	NA	NA	NA
Report Method	8270M-ST	8270M-ST	8270M-ST	8270M-ST
Min Reporting Limit	1.1	1	1.1	1
Units	ug/Kg	ug/Kg	ug/Kg	ug/Kg

### Sterane-Triterpane Biomarkers

T4-C23Diterpane	J	0.41 J	0.23 J	0.41 J	0.36
S4-Diacholestane	J	0.78 J	0.55 J	0.76 J	0.62
S5-Diacholestane	J	0.4 J	0.31 J	0.45 J	0.34
T9-C29Tricyclitriterpane	J	ND	ND	ND	
T10-C29Tricyclitriterpane	J	ND	ND	ND	
T11-Trisnorhopane(TS)	J	0.46 J	0.32 J	0.48 J	0.58
T12-Trisnorhopane(TM)		1.4	1.3	1.6	1.5
S24-Methylcholestane		1.3	0.84 J	1.6	1.1
S25-Ethylcholestane	J	0.75 J	0.61 J	0.64 J	0.66
S28-Ethylcholestane		6.8	5.8	9.1	7.8
T15-Norhopane		3.3	2.8	3.8	3.6
T18-Oleanane	J	0.52 J	0.48 J	0.53 J	0.47
T19-Hopane		4.2	3.6	4.7	4.3
T21-Homohopane		1.6	1.3	1.6	1.6
T22-Homohopane		7.6	5.2	8	7.3
D66-Dotriacontane		77	81	74	77

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Field ID	01-L02-01-2-PHC-SC	01-L02-01-4-PHC-SC	01-L02-01-6-PHC-SC
Lab ID	21A1889	21A1890	21A1891
Lab Batch	B2141	B2141	B2141
SDG	ICF4000	ICF4000	ICF4000
File	W1225.D	W1226.D	W1227.D
Sample Type	N	N	N
Matrix	SEDIMENT	SEDIMENT	SEDIMENT
Sample Size	g 22.56 g	23.07 g	21.42 g
Weight Basis	DRY	DRY	DRY
Associated Blank	DW-S-34PB	DW-S-34PB	DW-S-34PB
Field Date	08/03/01	08/03/01	08/03/01
Extract Date	07/22/02	07/22/02	07/22/02
Analysis Date	07/28/02	07/28/02	07/28/02
Date Received	08/09/01	08/09/01	08/09/01
Percent Solids	75.1	76.7	71.4
Dilution Factor	1	1	1
Percent Lipids	NA	NA	NA
Report Method	8270M-ST	8270M-ST	8270M-ST
Min Reporting Limit	1.1	1.1	1.2
Units	ug/Kg	ug/Kg	ug/Kg

### Sterane-Triterpane Biomarkers

T4-C23Diterpane	J	0.48 J	0.5 J	0.6 J
S4-Diacholestane	J	0.8 J	1 J	1.2
S5-Diacholestane	J	0.62 J	0.52 J	0.56 J
T9-C29Tricyclitriterpane	ND	0.25 J	0.18 J	0.23 J
T10-C29Tricyclitriterpane	ND	0.31 J	0.3 J	0.41 J
T11-Trisnorhopane(TS)	J	0.56 J	0.71 J	0.74 J
T12-Trisnorhopane(TM)		1.7	1.8	2.2
S24-Methylcholestane		1.6	1.6	1.9
S25-Ethylcholestane	J	0.74 J	0.75 J	0.88 J
S28-Ethylcholestane		ND	ND	ND
T15-Norhopane		4	4.4	5.7
T18-Oleanane	J	0.26 J	0.36 J	0.38 J
T19-Hopane		5.2	5.4	7
T21-Homohopane		2	2	2.6
T22-Homohopane		4.8	4.4	5
D66-Dotriacontane		88	83	86



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Field ID	01-L02-01-12-PHC-SC	01-L02-01-16-PHC-SC	01-L02-01-22-PHC-SC	01-N02-01-2-PHC-SC
Lab ID	21A1894	21A1896	21A1899	21A1923
Lab Batch	B2141	B2141	B2141	B2140
SDG	ICF4000	ICF4000	ICF4000	ICF3998
File	W1228.D	W1229.D	W1230.D	W1203.D
Sample Type	N	N	N	N
Matrix	SEDIMENT	SEDIMENT	SEDIMENT	SEDIMENT
Sample Size	22.38 g	21.14 g	20.35 g	20.56
Weight Basis	DRY	DRY	DRY	DRY
Associated Blank	DW-S-34PB	DW-S-34PB	DW-S-34PB	DW-S-31PB
Field Date	08/03/01	08/03/01	08/03/01	07/31/01
Extract Date	07/22/02	07/22/02	07/22/02	07/18/02
Analysis Date	07/28/02	07/28/02	07/28/02	07/26/02
Date Received	08/09/01	08/09/01	08/09/01	08/09/01
Percent Solids	74.6	70.4	67.7	68.4
Dilution Factor	1	1	1	1
Percent Lipids	NA	NA	NA	NA
Report Method	8270M-ST	8270M-ST	8270M-ST	8270M-ST
Min Reporting Limit	1.1	1.2	1.2	1.2
Units	ug/Kg	ug/Kg	ug/Kg	ug/Kg

Sterane-Triterpane Biomarkers				
T4-C23Diterpane	0.52 J	0.8 J	0.68 J	0.99
S4-Diacholestane	0.87 J	1.6	1.4	1.3
S5-Diacholestane	0.53 J	0.93 J	0.87 J	0.84
T9-C29Tricyclitriterpane	0.21 J	0.33 J	0.26 J	0.32
T10-C29Tricyclitriterpane	0.29 J	0.65 J	0.47 J	0.4
T11-Trisnorhopane(TS)	0.69 J	0.84 J	1.1 J	1
T12-Trisnorhopane(TM)	1.8	3.3	4.7	3.4
S24-Methylcholestane	1.6	2.9	3	2.9
S25-Ethylcholestane	0.78 J	1.3	2.3	1.4
S28-Ethylcholestane	ND	ND	ND	16
T15-Norhopane	4.9	9.2	15	7.4
T18-Oleanane	0.35 J	0.55 J	0.95 J	0.3
T19-Hopane	5.9	11	13	9.9
T21-Homohopane	2.2	5.1	5.2	4.4
T22-Homohopane	4.3	8.5	11	6.9
D66-Dotriacontane	86	76	84	82

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Field ID	01-N02-01-4-PHC-SC	01-N02-01-6-PHC-SC	01-N02-01-12-PHC-SC	01-N02-01-16-PHC-SC
Lab ID	21A1924	21A1925	21A1928	21A1930
Lab Batch	B2140	B2140	B2141	B2141
SDG	ICF3998	ICF3998	ICF4000	ICF4000
File	W1204.D	W1205.D	W1231.D	W1232.D
Sample Type	N	N	N	N
Matrix	SEDIMENT	SEDIMENT	SEDIMENT	SEDIMENT
Sample Size	g 22.13 g	21.48 g	22.55 g	22.89
Weight Basis	DRY	DRY	DRY	DRY
Associated Blank	DW-S-31PB	DW-S-31PB	DW-S-34PB	DW-S-34PB
Field Date	07/31/01	07/31/01	07/31/01	07/31/01
Extract Date	07/18/02	07/18/02	07/22/02	07/22/02
Analysis Date	07/26/02	07/26/02	07/28/02	07/28/02
Date Received	08/09/01	08/09/01	08/09/01	08/09/01
Percent Solids	73.6	71.5	75	76.1
Dilution Factor	1	1	1	1
Percent Lipids	NA	NA	NA	NA
Report Method	8270M-ST	8270M-ST	8270M-ST	8270M-ST
Min Reporting Limit	1.1	1.2	1.1	1.1
Units	ug/Kg	ug/Kg	ug/Kg	ug/Kg

### Sterane-Triterpane Biomarkers

T4-C23Diterpane	J	0.66 J	0.76 J	1.1	0.59
S4-Diacholestane		1 J	1.1 J	1.8	0.74
S5-Diacholestane	J	0.67 J	0.72 J	0.89 J	0.49
T9-C29Tricyclitriterpane	J	0.22 J	0.25 J	0.33 J	0.19
T10-C29Tricyclitriterpane	J	0.3 J	0.39 J	0.59 J	0.35
T11-Trisnorhopane(TS)	J	0.69 J	0.68 J	0.98 J	0.57
T12-Trisnorhopane(TM)		2.7	2.8	3.9	2.2
S24-Methylcholestane		2.1	2.3	3.3	1.8
S25-Ethylcholestane		1.1	1.2	1.7	0.89
S28-Ethylcholestane		11	11	ND	
T15-Norhopane		6	6.6	9.6	5.4
T18-Oleanane	J	0.24 J	0.26 J	0.33 J	0.37
T19-Hopane		8.1	8.6	12	6.5
T21-Homohopane		3	3.8	4.4	2.4
T22-Homohopane		5.7	5.6	8.9	4.9
D66-Dotriacontane		85	83	65	78

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Field ID	01-N02-01-22-PHC-SC	01-N03-01-2-PHC-SC	01-N03-01-4-PHC-SC
Lab ID	21A1933	21A1945	21A1946
Lab Batch	B2141	B2141	B2141
SDG	ICF4000	ICF4000	ICF4000
File	W1234.D	W1235.D	W1236.D
Sample Type	N	N	N
Matrix	SEDIMENT	SEDIMENT	SEDIMENT
Sample Size	g 20.37 g	22.26 g	22.02 g
Weight Basis	DRY	DRY	DRY
Associated Blank	DW-S-34PB	DW-S-34PB	DW-S-34PB
Field Date	07/31/01	07/28/01	07/28/01
Extract Date	07/22/02	07/22/02	07/22/02
Analysis Date	07/28/02	07/28/02	07/28/02
Date Received	08/09/01	08/09/01	08/09/01
Percent Solids	67.8	74	73.4
Dilution Factor	1	1	1
Percent Lipids	NA	NA	NA
Report Method	8270M-ST	8270M-ST	8270M-ST
Min Reporting Limit	1.2	1.1	1.1
Units	ug/Kg	ug/Kg	ug/Kg

Sterane-Triterpane Biomarkers			
T4-C23Diterpane	J	1.6	0.74 J 0.72 J
S4-Diacholestane	J	2.8	1 J 0.93 J
S5-Diacholestane	J	1.7	0.63 J 0.6 J
T9-C29Tricyclitriterpane	J	0.59 J	0.25 J 0.26 J
T10-C29Tricyclitriterpane	J	0.86 J	0.39 J 0.37 J
T11-Trisnorhopane(TS)	J	1.8	0.77 J 0.71 J
T12-Trisnorhopane(TM)		5.6	2.8 2.7
S24-Methylcholestane		4.6	2.2 2.2
S25-Ethylcholestane	J	2.1	1 J 1 J
S28-Ethylcholestane	ND	ND	ND ND
T15-Norhopane		14	7.7 7.1
T18-Oleanane	J	0.58 J	0.35 J 0.32 J
T19-Hopane		17	8.5 8.1
T21-Homohopane		7	3.1 2.9
T22-Homohopane		13	6.9 6.7
D66-Dotriacontane		65	82 87

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Data Package: 4000  
Data Table: Main - Surrogate Corrected

Field ID	01-N03-01-6-PHC-SC	01-N03-01-10-PHC-SC	01-N03-01-16-PHC-SC
Lab ID	21A1947	21A1949	21A1952
Lab Batch	B2141	B2141	B2141
SDG	ICF4000	ICF4000	ICF4000
File	W1237.D	W1238.D	W1239.D
Sample Type	N	N	N
Matrix	SEDIMENT	SEDIMENT	SEDIMENT
Sample Size	22.45 g	21.96 g	23.25 g
Weight Basis	DRY	DRY	DRY
Associated Blank	DW-S-34PB	DW-S-34PB	DW-S-34PB
Field Date	07/28/01	07/28/01	07/28/01
Extract Date	07/22/02	07/22/02	07/22/02
Analysis Date	07/28/02	07/28/02	07/28/02
Date Received	08/09/01	08/09/01	08/09/01
Percent Solids	74.6	73	77.4
Dilution Factor	1	1	1
Percent Lipids	NA	NA	NA
Report Method	8270M-ST	8270M-ST	8270M-ST
Min Reporting Limit	1.1	1.1	1.1
Units	ug/Kg	ug/Kg	ug/Kg

Sterane-Triterpane Biomarkers			
T4-C23Diterpane	0.64 J	0.8 J	0.52 J
S4-Diacholestane	0.8 J	1.1	0.63 J
S5-Diacholestane	0.52 J	0.7 J	0.48 J
T9-C29Tricyclitriterpane	0.23 J	0.31 J	0.18 J
T10-C29Tricyclitriterpane	0.35 J	0.46 J	0.31 J
T11-Trisnorhopane(TS)	0.72 J	0.79 J	0.64 J
T12-Trisnorhopane(TM)	2.4	2.9	2.1
S24-Methylcholestane	1.8	2.4	1.6
S25-Ethylcholestane	0.82 J	1.1	0.76 J
S28-Ethylcholestane	ND	ND	ND
T15-Norhopane	5.6	8.3	5
T18-Oleanane	0.45 J	0.31 J	0.16 J
T19-Hopane	6.8	9.1	6.1
T21-Homohopane	2.4	3.5	2.2
T22-Homohopane	5	7	4.7
D66-Dotriacontane	75	86	78

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Data Table: Main - Surrogate Corrected

Field ID	01-N03-01-20-PHC-SC	01-P01-01-2-PHC-SC	01-P01-01-4-PHC-SC
Lab ID	21A1954	21A1978	21A1979
Lab Batch	B2141	B2102	B2102
SDG	ICF4000	ICF3949	ICF3949
File	W1240.D	W0611.D	W0612.D
Sample Type	N	N	N
Matrix	SEDIMENT	SEDIMENT	SEDIMENT
Sample Size	23.78 g	16.08 g	18.98 g
Weight Basis	DRY	DRY	DRY
Associated Blank	DW-S-34PB	DU-S-62PB	DU-S-62PB
Field Date	07/28/01	08/01/01	08/01/01
Extract Date	07/22/02	05/10/02	05/10/02
Analysis Date	07/28/02	05/31/02	05/31/02
Date Received	08/09/01	08/09/01	08/09/01
Percent Solids	79.2	53.6	63.2
Dilution Factor	1	1	1
Percent Lipids	NA	NA	NA
Report Method	8270M-ST	8270M-ST	8270M-ST
Min Reporting Limit	1	1.6	1.3
Units	ug/Kg	ug/Kg	ug/Kg

Sterane-Triterpane Biomarkers			
T4-C23Diterpane	0.48 J	1 J	0.91 J
S4-Diacholestane	0.59 J	1.7	1.6
S5-Diacholestane	0.38 J	0.9 J	0.95 J
T9-C29Tricyclitriterpane	0.15 J	ND	ND
T10-C29Tricyclitriterpane	0.27 J	ND	ND
T11-Trisnorhopane(TS)	0.48 J	1.1 J	1.1 J
T12-Trisnorhopane(TM)	1.7	3.9	3.2
S24-Methylcholestane	1.4	2.9	3
S25-Ethylcholestane	0.58 J	1.2 J	1.3
S28-Ethylcholestane	ND	34	26
T15-Norhopane	4.4	8.8	7.5
T18-Oleanane	0.23 J	0.99 J	0.78 J
T19-Hopane	4.9	9.3	8.5
T21-Homohopane	1.8	3.2	3
T22-Homohopane	4.2	12	11
D66-Dotriacontane	86	72	73

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Data Package: 4000  
Data Table: Main - Surrogate Corrected

Field ID	01-P01-01-6-PHC-SC	01-P01-01-8-PHC-SC	01-P01-01-10-PHC-SC
Lab ID	21A1980	21A1981	21A1982
Lab Batch	B2102	B2102	B2102
SDG	ICF3949	ICF3949	ICF3949
File	W0613.D	W0615.D	W0616.D
Sample Type	N	N	N
Matrix	SEDIMENT	SEDIMENT	SEDIMENT
Sample Size	20.07 g	20.04 g	19.77 g
Weight Basis	DRY	DRY	DRY
Associated Blank	DU-S-62PB	DU-S-62PB	DU-S-62PB
Field Date	08/01/01	08/01/01	08/01/01
Extract Date	05/10/02	05/10/02	05/10/02
Analysis Date	05/31/02	05/31/02	05/31/02
Date Received	08/09/01	08/09/01	08/09/01
Percent Solids	66.8	66.7	65.8
Dilution Factor	1	1	1
Percent Lipids	NA	NA	NA
Report Method	8270M-ST	8270M-ST	8270M-ST
Min Reporting Limit	1.2	1.2	1.3
Units	ug/Kg	ug/Kg	ug/Kg

Sterane-Triterpane Biomarkers			
T4-C23Diterpane	0.53 J	0.47 J	0.59 J
S4-Diacholestane	0.98 J	0.9 J	1.2 J
S5-Diacholestane	0.55 J	0.49 J	0.66 J
T9-C29Tricyclitriterpane	ND	ND	ND
T10-C29Tricyclitriterpane	ND	ND	ND
T11-Trisnorhopane(TS)	0.67 J	0.62 J	0.76 J
T12-Trisnorhopane(TM)	2.8	2.5	3
S24-Methylcholestane	1.9	1.4	1.8
S25-Ethylcholestane	1 J	1.6	1.1 J
S28-Ethylcholestane	18	20	26
T15-Norhopane	5.8	6	8
T18-Oleanane	0.68 J	0.62 J	0.71 J
T19-Hopane	7.2	7.2	8.6
T21-Homohopane	2.5	2.6	3.1
T22-Homohopane	10	9.6	12
D66-Dotriacontane	79	80	78

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Data Table: Main - Surrogate Corrected

Field ID	01-P01-01-12-PHC-SC	01-P01-01-14-PHC-SC	01-P01-01-16-PHC-SC
Lab ID	21A1983	21A1984	21A1985
Lab Batch	B2102	B2102	B2102
SDG	ICF3949	ICF3949	ICF3949
File	W0617.D	W0618.D	W0619.D
Sample Type	N	N	N
Matrix	SEDIMENT	SEDIMENT	SEDIMENT
Sample Size	20.39 g	20.18 g	19.95 g
Weight Basis	DRY	DRY	DRY
Associated Blank	DU-S-62PB	DU-S-62PB	DU-S-62PB
Field Date	08/01/01	08/01/01	08/01/01
Extract Date	05/10/02	05/10/02	05/10/02
Analysis Date	05/31/02	05/31/02	05/31/02
Date Received	08/09/01	08/09/01	08/09/01
Percent Solids	67.9	67.2	66.5
Dilution Factor	1	1	1
Percent Lipids	NA	NA	NA
Report Method	8270M-ST	8270M-ST	8270M-ST
Min Reporting Limit	1.2	1.2	1.2
Units	ug/Kg	ug/Kg	ug/Kg

Sterane-Triterpane Biomarkers			
T4-C23Diterpane	0.57 J	0.53 J	0.58 J
S4-Diacholestane	1 J	0.88 J	0.99 J
S5-Diacholestane	0.55 J	0.54 J	0.56 J
T9-C29Tricyclitriterpane	ND	ND	ND
T10-C29Tricyclitriterpane	ND	ND	ND
T11-Trisnorhopane(TS)	0.79 J	0.86 J	0.72 J
T12-Trisnorhopane(TM)	2.8	2.9	3.4
S24-Methylcholestane	1.9	1.8	1.7
S25-Ethylcholestane	1.1 J	1.2	1.6
S28-Ethylcholestane	23	22	29
T15-Norhopane	7.7	6.7	8.1
T18-Oleanane	0.67 J	0.6 J	0.65 J
T19-Hopane	8	7.2	8.4
T21-Homohopane	2.7	2.6	2.6
T22-Homohopane	10	9.9	11
D66-Dotriacontane	79	77	76

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Field ID	01-P01-01-18-PHC-SC	01-P01-01-20-PHC-SC	01-P01-01-22-PHC-SC
Lab ID	21A1986	21A1987	21A1988
Lab Batch	B2102	B2103	B2103
SDG	ICF3949	ICF3952	ICF3952
File	W0620.D	W0675.D	W0676.D
Sample Type	N	N	N
Matrix	SEDIMENT	SEDIMENT	SEDIMENT
Sample Size	16.16 g	18.55 g	17.36 g
Weight Basis	DRY	DRY	DRY
Associated Blank	DU-S-62PB	DU-S-65PB	DU-S-65PB
Field Date	08/01/01	08/01/01	08/01/01
Extract Date	05/10/02	05/14/02	05/14/02
Analysis Date	05/31/02	06/04/02	06/04/02
Date Received	08/09/01	08/09/01	08/09/01
Percent Solids	64.5	61.8	57.8
Dilution Factor	1	1	1
Percent Lipids	NA	NA	NA
Report Method	8270M-ST	8270M-ST	8270M-ST
Min Reporting Limit	1.5	1.3	1.4
Units	ug/Kg	ug/Kg	ug/Kg

<b>Sterane-Triterpane Biomarkers</b>			
T4-C23Diterpane	0.54 J	0.74 J	0.93 J
S4-Diacholestane	1.2 J	1.1 J	1.3 J
S5-Diacholestane	0.6 J	0.66 J	0.76 J
T9-C29Tricyclitriterpane	ND	ND	ND
T10-C29Tricyclitriterpane	ND	ND	ND
T11-Trisnorhopane(TS)	0.75 J	0.8 J	1.1 J
T12-Trisnorhopane(TM)	3.2	3.5	4.3
S24-Methylcholestane	2.4	1.8	2.1
S25-Ethylcholestane	1.3 J	1.3	1.6
S28-Ethylcholestane	29	32	43
T15-Norhopane	7.9	9.5	12
T18-Oleanane	0.7 J	ND	0.78 J
T19-Hopane	8.4	9.5	11
T21-Homohopane	2.7	4.8	5.1
T22-Homohopane	12	14	14
D66-Dotriacontane	74	68	68



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Data Table: Main - Surrogate Corrected

Field ID	01-P01-01-24-PHC-SC	01-P01-01-26-PHC-SC	01-P01-01-28-PHC-SC
Lab ID	21A1989	21A1990	21A1991
Lab Batch	B2103	B2103	B2103
SDG	ICF3952	ICF3952	ICF3952
File	W0677.D	W0678.D	W0679.D
Sample Type	N	N	N
Matrix	SEDIMENT	SEDIMENT	SEDIMENT
Sample Size	20.67 g	20.25 g	20.57 g
Weight Basis	DRY	DRY	DRY
Associated Blank	DU-S-65PB	DU-S-65PB	DU-S-65PB
Field Date	08/01/01	08/01/01	08/01/01
Extract Date	05/14/02	05/14/02	05/14/02
Analysis Date	06/04/02	06/04/02	06/04/02
Date Received	08/09/01	08/09/01	08/09/01
Percent Solids	68.8	67.5	68.5
Dilution Factor	1	1	1
Percent Lipids	NA	NA	NA
Report Method	8270M-ST	8270M-ST	8270M-ST
Min Reporting Limit	1.2	1.2	1.2
Units	ug/Kg	ug/Kg	ug/Kg

<b>Sterane-Triterpane Biomarkers</b>			
T4-C23Diterpane	0.61 J	0.66 J	0.58 J
S4-Diacholestane	0.86 J	0.94 J	0.77 J
S5-Diacholestane	0.53 J	0.54 J	0.48 J
T9-C29Tricyclitriterpane	ND	ND	ND
T10-C29Tricyclitriterpane	ND	ND	ND
T11-Trisnorhopane(TS)	0.92 J	0.74 J	0.65 J
T12-Trisnorhopane(TM)	2.7	3.2	2.5
S24-Methylcholestane	1.4	1.8	1.6
S25-Ethylcholestane	1.2	1.3	1 J
S28-Ethylcholestane	24	29	20
T15-Norhopane	7.4	8.8	6.7
T18-Oleanane	0.75 J	0.73 J	0.58 J
T19-Hopane	7.4	8.1	6.7
T21-Homohopane	3.5	3.3	2.5
T22-Homohopane	10	12	10
D66-Dotriacontane	71	67	72