

Appendix D

**Laboratory Reports - 116 Townsend Street
Northeast Drainage Ditch Removal Action
Hattiesburg, Mississippi**



ANALYTICAL RESULTS

Prepared for:

Tronox LLC
PO Box 3049
Livonia MI 48150

734-367-7900

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

SAMPLE GROUP

The sample group for this submittal is 989894. Samples arrived at the laboratory on Wednesday, May 17, 2006. The PO# for this group is ZAKWICEOK0A50149.

<u>Client Description</u>	<u>Lancaster Labs Number</u>
116TSS-01(0-1) Soil Sample	4773501
116TSS-02(0-1) Soil Sample	4773502
116TSW-01(4-5) Soil Sample	4773503
116TSW-02(4-5) Soil Sample	4773504
116TSW-03(4-5) Soil Sample	4773505
116TSW-04(4-5) Soil Sample	4773506
116TSS-03(0-1) Soil Sample	4773507
116TSS-04(0-1) Soil Sample	4773508
116TSW-05(3-4) Soil Sample	4773509
116TSS-05(0-1) Soil Sample	4773510
116TSW-06(3-4) Soil Sample	4773511
116TSW-07(3-4) Soil Sample	4773512
116TSW-09(3-4) Soil Sample	4773513
116TSW-08(3-4) Soil Sample	4773514
116TSS-07(0-1) Soil Sample	4773515
116TSS-09(0-1) Soil Sample	4773516
116TSS-10(0-1) Soil Sample	4773517
116TSS-08(0-1) Soil Sample	4773518
116TSW-10(3-4) Soil Sample	4773519
116TSW-06(0-1) Soil Sample	4773520

METHODOLOGY

The specific methodologies used in obtaining the enclosed analytical results are indicated on the laboratory chronicles.



1 COPY TO
1 COPY TO

Michael Pisani & Associates
Data Package Group

Attn: David Upthegrove

Questions? Contact your Client Services Representative
Gwen A Birchall at (717) 656-2300

Respectfully Submitted.

A handwritten signature in cursive script that reads "Barbara F. Reedy".

Barbara F. Reedy
Senior Specialist



Lancaster Laboratories Sample No. SW 4773501

116TSS-01(0-1') Soil Sample
Gulf States Creosoting/Hattiesburg, MS

Collected: 05/15/2006 13:35

Account Number: 11947

Submitted: 05/17/2006 09:05
Reported: 06/02/2006 at 11:45
Discard: 08/02/2006

Tronox LLC
PO Box 3049
Livonia MI 48150

TSS01 SDG#: HMS60-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Limit of Quantitation	Units	Dilution Factor
00111	Moisture	n.a.	9.6	0.50	%	1
Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						
00941	PAH's in Solids by HPLC					
00942	Naphthalene	91-20-3	N.D.	18,000.	ug/kg	50
00951	Acenaphthylene	208-96-8	N.D.	15,000.	ug/kg	50
00953	Acenaphthene	83-32-9	N.D.	15,000.	ug/kg	50
00974	Fluorene	86-73-7	330.	J 1,500.	ug/kg	50
01007	Phenanthrene	85-01-8	870.	740.	ug/kg	50
01008	Anthracene	120-12-7	220.	J 290.	ug/kg	50
01010	Fluoranthene	206-44-0	1,300.	290.	ug/kg	50
01012	Pyrene	129-00-0	2,900.	1,500.	ug/kg	50
01014	Benzo(a)anthracene	56-55-3	1,200.	370.	ug/kg	50
01016	Chrysene	218-01-9	1,100.	740.	ug/kg	50
01017	Benzo(b)fluoranthene	205-99-2	3,100.	740.	ug/kg	50
01018	Benzo(k)fluoranthene	207-08-9	1,600.	370.	ug/kg	50
01019	Benzo(a)pyrene	50-32-8	2,500.	740.	ug/kg	50
01022	Dibenz(a,h)anthracene	53-70-3	260.	J 290.	ug/kg	50
01025	Indeno(1,2,3-cd)pyrene	193-39-5	1,800.	740.	ug/kg	50
01026	Benzo(g,h,i)perylene	191-24-2	2,600.	740.	ug/kg	50

The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.
Due to the sample matrix an initial dilution was necessary to perform the analysis. Therefore, the reporting limits for the PAH by HPLC compounds were raised.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
00111	Moisture	EPA 160.3 modified	1	05/18/2006 16:00	Scott W Freisher	1
00941	PAH's in Solids by HPLC	SW-846 8310	1	05/30/2006 05:30	Mark A Clark	50
03338	PAH Solid Extraction	SW-846 3550B	1	05/22/2006 16:00	Maryan G Attalla	1

Lancaster Laboratories, Inc
2425 New Holland Pike
PO Box 12425
Lancaster, PA 17605-2425
717-656-2300 Fax 717-656-2681



Lancaster Laboratories Sample No. SW 4773501

116TSS-01(0-1') Soil Sample
Gulf States Creosoting/Hattiesburg, MS

Collected: 05/15/2006 13:35

Account Number: 11947

Submitted: 05/17/2006 09:05
Reported: 06/02/2006 at 11:45
Discard: 08/02/2006

Tronox LLC
PO Box 3049
Livonia MI 48150

TSS01 SDG#: HMS60-01



Lancaster Laboratories Sample No. SW 4773502

116TSS-02(0-1') Soil Sample
Gulf States Creosoting/Hattiesburg, MS

Collected: 05/15/2006 13:40

Account Number: 11947

Submitted: 05/17/2006 09:05
Reported: 06/02/2006 at 11:45
Discard: 08/02/2006

Tronox LLC
PO Box 3049
Livonia MI 48150

TSS02 SDG#: HMS60-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Limit of Quantitation	Units	Dilution Factor
00111	Moisture	n.a.	6.5	0.50	%	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						
00941	PAH's in Solids by HPLC					
00942	Naphthalene	91-20-3	N.D.	7,100.	ug/kg	20
00951	Acenaphthylene	208-96-8	N.D.	5,700.	ug/kg	20
00953	Acenaphthene	83-32-9	N.D.	5,700.	ug/kg	20
00974	Fluorene	86-73-7	N.D.	570.	ug/kg	20
01007	Phenanthrene	85-01-8	170.	290.	ug/kg	20
01008	Anthracene	120-12-7	33.	110.	ug/kg	20
01010	Fluoranthene	206-44-0	400.	110.	ug/kg	20
01012	Pyrene	129-00-0	650.	570.	ug/kg	20
01014	Benzo(a)anthracene	56-55-3	240.	140.	ug/kg	20
01016	Chrysene	218-01-9	300.	290.	ug/kg	20
01017	Benzo(b)fluoranthene	205-99-2	640.	290.	ug/kg	20
01018	Benzo(k)fluoranthene	207-08-9	290.	140.	ug/kg	20
01019	Benzo(a)pyrene	50-32-8	420.	290.	ug/kg	20
01022	Dibenz(a,h)anthracene	53-70-3	47.	110.	ug/kg	20
01025	Indeno(1,2,3-cd)pyrene	193-39-5	340.	290.	ug/kg	20
01026	Benzo(g,h,i)perylene	191-24-2	550.	290.	ug/kg	20

The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram. Due to the sample matrix an initial dilution was necessary to perform the analysis. Therefore, the reporting limits for the PAH by HPLC compounds were raised.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
00111	Moisture	EPA 160.3 modified	1	05/18/2006 16:00	Scott W Freisher	1
00941	PAH's in Solids by HPLC	SW-846 8310	1	05/30/2006 06:16	Mark A Clark	20
03338	PAH Solid Extraction	SW-846 3550B	1	05/22/2006 16:00	Maryan G Attalla	1

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Lancaster Laboratories Sample No. SW 4773502

116TSS-02(0-1') Soil Sample
Gulf States Creosoting/Hattiesburg, MS

Collected: 05/15/2006 13:40

Account Number: 11947

Submitted: 05/17/2006 09:05
Reported: 06/02/2006 at 11:45
Discard: 08/02/2006

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Livonia MI 48150

TSS02 SDG#: HMS60-02



Lancaster Laboratories Sample No. SW 4773503

116TSW-01(4-5') Soil Sample
Gulf States Creosoting/Hattiesburg, MS

Collected: 05/15/2006 13:45

Account Number: 11947

Submitted: 05/17/2006 09:05
Reported: 06/02/2006 at 11:45
Discard: 08/02/2006

Tronox LLC
PO Box 3049
Livonia MI 48150

TSW01 SDG#: HMS60-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Limit of Quantitation	Units	Dilution Factor
00111	Moisture	n.a.	13.9	0.50	%	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						
00941	PAH's in Solids by HPLC					
00942	Naphthalene	91-20-3	N.D.	7,700.	ug/kg	20
00951	Acenaphthylene	208-96-8	N.D.	6,200.	ug/kg	20
00953	Acenaphthene	83-32-9	2,100.	6,200.	ug/kg	20
00974	Fluorene	86-73-7	3,100.	620.	ug/kg	20
01007	Phenanthrene	85-01-8	9,600.	310.	ug/kg	20
01008	Anthracene	120-12-7	1,900.	120.	ug/kg	20
01010	Fluoranthene	206-44-0	5,700.	120.	ug/kg	20
01012	Pyrene	129-00-0	4,700.	620.	ug/kg	20
01014	Benzo(a)anthracene	56-55-3	1,100.	150.	ug/kg	20
01016	Chrysene	218-01-9	1,300.	310.	ug/kg	20
01017	Benzo(b)fluoranthene	205-99-2	990.	310.	ug/kg	20
01018	Benzo(k)fluoranthene	207-08-9	530.	150.	ug/kg	20
01019	Benzo(a)pyrene	50-32-8	1,100.	310.	ug/kg	20
01022	Dibenz(a,h)anthracene	53-70-3	98.	120.	ug/kg	20
01025	Indeno(1,2,3-cd)pyrene	193-39-5	740.	310.	ug/kg	20
01026	Benzo(g,h,i)perylene	191-24-2	720.	310.	ug/kg	20

The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.
Due to the sample matrix an initial dilution was necessary to perform the analysis. Therefore, the reporting limits for the PAH by HPLC compounds were raised.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
00111	Moisture	EPA 160.3 modified	1	05/18/2006 16:00	Scott W Freisher	1
00941	PAH's in Solids by HPLC	SW-846 8310	1	05/30/2006 07:01	Mark A Clark	20
03338	PAH Solid Extraction	SW-846 3550B	1	05/22/2006 16:00	Maryan G Attalla	1

Lancaster Laboratories, Inc
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PO Box 12425
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Lancaster Laboratories Sample No. SW 4773503

116TSW-01(4-5') Soil Sample
Gulf States Creosoting/Hattiesburg, MS

Collected: 05/15/2006 13:45

Account Number: 11947

Submitted: 05/17/2006 09:05
Reported: 06/02/2006 at 11:45
Discard: 08/02/2006

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PO Box 3049
Livonia MI 48150

TSW01 SDG#: HMS60-03



Lancaster Laboratories Sample No. SW 4773504

116TSW-02(4-5') Soil Sample
Gulf States Creosoting/Hattiesburg, MS

Collected: 05/15/2006 13:50

Account Number: 11947

Submitted: 05/17/2006 09:05
Reported: 06/02/2006 at 11:45
Discard: 08/02/2006

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Livonia MI 48150

TSW02 SDG#: HMS60-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Limit of Quantitation	Units	Dilution Factor
00111	Moisture	n.a.	15.8	0.50	%	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						
00941	PAH's in Solids by HPLC					
00942	Naphthalene	91-20-3	N.D.	20,000.	ug/kg	50
00951	Acenaphthylene	208-96-8	N.D.	16,000.	ug/kg	50
00953	Acenaphthene	83-32-9	N.D.	16,000.	ug/kg	50
00974	Fluorene	86-73-7	1,600.	1,600.	ug/kg	50
01007	Phenanthrene	85-01-8	3,100.	790.	ug/kg	50
01008	Anthracene	120-12-7	1,600.	320.	ug/kg	50
01010	Fluoranthene	206-44-0	24,000.	1,600.	ug/kg	250
01012	Pyrene	129-00-0	35,000.	1,600.	ug/kg	50
01014	Benzo(a)anthracene	56-55-3	12,000.	2,000.	ug/kg	250
01016	Chrysene	218-01-9	17,000.	790.	ug/kg	50
01017	Benzo(b)fluoranthene	205-99-2	16,000.	4,000.	ug/kg	250
01018	Benzo(k)fluoranthene	207-08-9	7,900.	2,000.	ug/kg	250
01019	Benzo(a)pyrene	50-32-8	18,000.	4,000.	ug/kg	250
01022	Dibenz(a,h)anthracene	53-70-3	1,100.	320.	ug/kg	50
01025	Indeno(1,2,3-cd)pyrene	193-39-5	9,600.	790.	ug/kg	50
01026	Benzo(g,h,i)perylene	191-24-2	9,400.	790.	ug/kg	50

The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.
Due to the sample matrix an initial dilution was necessary to perform the analysis. Therefore, the reporting limits for the PAH by HPLC compounds were raised.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
00111	Moisture	EPA 160.3 modified	1	05/18/2006 16:00	Scott W Freisher	1
00941	PAH's in Solids by HPLC	SW-846 8310	1	05/30/2006 07:47	Mark A Clark	50
00941	PAH's in Solids by HPLC	SW-846 8310	1	05/31/2006 04:44	Mark A Clark	250

Lancaster Laboratories, Inc.
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Lancaster, PA 17605-2425
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Lancaster Laboratories Sample No. SW 4773504

116TSW-02(4-5') Soil Sample
Gulf States Creosoting/Hattiesburg, MS

Collected: 05/15/2006 13:50

Account Number: 11947

Submitted: 05/17/2006 09:05
Reported: 06/02/2006 at 11:45
Discard: 08/02/2006

Tronox LLC
PO Box 3049
Livonia MI 48150

TSW02 SDG#: HMS60-04
03338 PAH Solid Extraction SW-846 3550B 1 05/22/2006 16:00 Maryan G Attalla 1



Lancaster Laboratories Sample No. SW 4773505

116TSW-03(4-5') Soil Sample
Gulf States Creosoting/Hattiesburg, MS

Collected: 05/15/2006 14:05

Account Number: 11947

Submitted: 05/17/2006 09:05
Reported: 06/02/2006 at 11:45
Discard: 08/02/2006

Tronox LLC
PO Box 3049
Livonia MI 48150

TSW03 SDG#: HMS60-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Limit of Quantitation	Units	Dilution Factor
00111	Moisture	n.a.	17.3		0.50	g	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							
00941	PAH's in Solids by HPLC						
00942	Naphthalene	91-20-3	4,400.	J	8,100.	ug/kg	20
00951	Acenaphthylene	208-96-8	N.D.		6,400.	ug/kg	20
00953	Acenaphthene	83-32-9	1,800.	J	6,400.	ug/kg	20
00974	Fluorene	86-73-7	1,800.		640.	ug/kg	20
01007	Phenanthrene	85-01-8	4,900.		320.	ug/kg	20
01008	Anthracene	120-12-7	660.		130.	ug/kg	20
01010	Fluoranthene	206-44-0	2,900.		130.	ug/kg	20
01012	Pyrene	129-00-0	3,000.		640.	ug/kg	20
01014	Benzo(a)anthracene	56-55-3	780.		160.	ug/kg	20
01016	Chrysene	218-01-9	830.		320.	ug/kg	20
01017	Benzo(b)fluoranthene	205-99-2	1,100.		320.	ug/kg	20
01018	Benzo(k)fluoranthene	207-08-9	560.		160.	ug/kg	20
01019	Benzo(a)pyrene	50-32-8	1,000.		320.	ug/kg	20
01022	Dibenz(a,h)anthracene	53-70-3	89.	J	130.	ug/kg	20
01025	Indeno(1,2,3-cd)pyrene	193-39-5	700.		320.	ug/kg	20
01026	Benzo(g,h,i)perylene	191-24-2	950.		320.	ug/kg	20

The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.
Due to the sample matrix an initial dilution was necessary to perform the analysis. Therefore, the reporting limits for the PAH by HPLC compounds were raised.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
00111	Moisture	EPA 160.3 modified	1	05/18/2006 16:00	Scott W Freisher	1
00941	PAH's in Solids by HPLC	SW-846 8310	1	05/30/2006 08:33	Mark A Clark	20
03338	PAH Solid Extraction	SW-846 3550B	1	05/22/2006 16:00	Maryan G Attalla	1

Lancaster Laboratories, Inc
2425 New Hoffman Pk
PO Box 12425
Lancaster, PA 17605-2425
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Lancaster Laboratories Sample No. SW 4773505

116TSW-03(4-5') Soil Sample
Gulf States Creosoting/Hattiesburg, MS

Collected: 05/15/2006 14:05

Account Number: 11947

Submitted: 05/17/2006 09:05
Reported: 06/02/2006 at 11:45
Discard: 08/02/2006

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Livonia MI 48150

TSW03 SDG#: HMS60-05



Lancaster Laboratories Sample No. SW 4773506

116TSW-04(4-5') Soil Sample
Gulf States Creosoting/Hattiesburg, MS

Collected: 05/15/2006 14:10

Account Number: 11947

Submitted: 05/17/2006 09:05
Reported: 06/02/2006 at 11:45
Discard: 08/02/2006

Tronox LLC
PO Box 3049
Livonia MI 48150

TSW04 SDG#: HMS60-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Limit of Quantitation	Units	Dilution Factor
00111	Moisture	n.a.	16.2	0.50	%	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						
00941	PAH's in Solids by HPLC					
00942	Naphthalene	91-20-3	N.D.	8,000.	ug/kg	20
00951	Acenaphthylene	208-96-8	N.D.	6,400.	ug/kg	20
00953	Acenaphthene	83-32-9	N.D.	6,400.	ug/kg	20
00974	Fluorene	86-73-7	240. J	640.	ug/kg	20
01007	Phenanthrene	85-01-8	250. J	320.	ug/kg	20
01008	Anthracene	120-12-7	130. J	130.	ug/kg	20
01010	Fluoranthene	206-44-0	970.	130.	ug/kg	20
01012	Pyrene	129-00-0	1,700.	640.	ug/kg	20
01014	Benzo(a)anthracene	56-55-3	840.	160.	ug/kg	20
01016	Chrysene	218-01-9	1,700.	320.	ug/kg	20
01017	Benzo(b)fluoranthene	205-99-2	2,700.	800.	ug/kg	50
01018	Benzo(k)fluoranthene	207-08-9	1,300.	160.	ug/kg	20
01019	Benzo(a)pyrene	50-32-8	3,100.	800.	ug/kg	50
01022	Dibenz(a,h)anthracene	53-70-3	250.	130.	ug/kg	20
01025	Indeno(1,2,3-cd)pyrene	193-39-5	2,600.	320.	ug/kg	20
01026	Benzo(g,h,i)perylene	191-24-2	2,900.	320.	ug/kg	20

The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.
Due to the sample matrix an initial dilution was necessary to perform the analysis. Therefore, the reporting limits for the PAH by HPLC compounds were raised.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
00111	Moisture	EPA 160.3 modified	1	05/18/2006 16:00	Scott W Freisher	1
00941	PAH's in Solids by HPLC	SW-846 8310	1	05/30/2006 10:36	Mark A Clark	20
00941	PAH's in Solids by HPLC	SW-846 8310	1	05/31/2006 15:39	Mark A Clark	50

Lancaster Laboratories, Inc
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Lancaster, PA 17605-2425
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Lancaster Laboratories Sample No. SW 4773506

116TSW-04(4-5') Soil Sample
Gulf States Creosoting/Hattiesburg, MS

Collected: 05/15/2006 14:10

Account Number: 11947

Submitted: 05/17/2006 09:05
Reported: 06/02/2006 at 11:45
Discard: 08/02/2006

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Livonia MI 48150

TSW04 SDG#: HMS60-06
03338 PAH Solid Extraction

SW-846-3550B

1 05/22/2006 16:00 Maryan G Attalla

1



Lancaster Laboratories Sample No. SW 4773507

116TSS-03(0-1') Soil Sample
Gulf States Creosoting/Hattiesburg, MS

Collected: 05/15/2006 14:35

Account Number: 11947

Submitted: 05/17/2006 09:05
Reported: 06/02/2006 at 11:45
Discard: 08/02/2006

Tronox LLC
PO Box 3049
Livonia MI 48150

TSS03 SDG#: HMS60-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Limit of Quantitation	Units	Dilution Factor
00111	Moisture	n.a.	11.8	0.50	%	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						
00941	PAH's in Solids by HPLC					
00942	Naphthalene	91-20-3	N.D.	1,900.	ug/kg	5
00951	Acenaphthylene	208-96-8	N.D.	1,500.	ug/kg	5
00953	Acenaphthene	83-32-9	N.D.	1,500.	ug/kg	5
00974	Fluorene	86-73-7	59. J	150.	ug/kg	5
01007	Phenanthrene	85-01-8	200.	76.	ug/kg	5
01008	Anthracene	120-12-7	28. J	30.	ug/kg	5
01010	Fluoranthene	206-44-0	210.	30.	ug/kg	5
01012	Pyrene	129-00-0	550.	150.	ug/kg	5
01014	Benzo(a)anthracene	56-55-3	94.	38.	ug/kg	5
01016	Chrysene	218-01-9	N.D.	1,300.	ug/kg	5
01017	Benzo(b)fluoranthene	205-99-2	160.	76.	ug/kg	5
01018	Benzo(k)fluoranthene	207-08-9	130.	38.	ug/kg	5
01019	Benzo(a)pyrene	50-32-8	160.	76.	ug/kg	5
01022	Dibenz(a,h)anthracene	53-70-3	16. J	30.	ug/kg	5
01025	Indeno(1,2,3-cd)pyrene	193-39-5	120.	76.	ug/kg	5
01026	Benzo(g,h,i)perylene	191-24-2	150.	76.	ug/kg	5

Due to the presence of an interferent near its retention time, the normal reporting limit was not attained for chrysene. The reporting limit for this compound was raised accordingly.

The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.

Due to the sample matrix an initial dilution was necessary to perform the analysis. Therefore, the reporting limits for the PAH by HPLC compounds were raised.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

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Lancaster Laboratories Sample No. SW 4773507

116TSS-03(0-1') Soil Sample
Gulf States Creosoting/Hattiesburg, MS

Collected: 05/15/2006 14:35

Account Number: 11947

Submitted: 05/17/2006 09:05
Reported: 06/02/2006 at 11:45
Discard: 08/02/2006

Tronox LLC
PO Box 3049
Livonia MI 48150

TSS03 SDG#: HMS60-07
CAT

No.	Analysis Name	Method	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
00111	Moisture	EPA 160.3 modified	1	05/18/2006 16:00	Scott W Freisher	1
00941	PAH's in Solids by HPLC	SW-846 8310	1	05/31/2006 13:22	Mark A Clark	5
03338	PAH Solid Extraction	SW-846 3550B	1	05/22/2006 16:00	Maryan G Attalla	1



Lancaster Laboratories Sample No. SW 4773508

116TSS-04(0-1') Soil Sample
Gulf States Creosoting/Hattiesburg, MS

Collected: 05/15/2006 14:40

Account Number: 11947

Submitted: 05/17/2006 09:05
Reported: 06/02/2006 at 11:45
Discard: 08/02/2006

Tronox LLC
PO Box 3049
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TSS04 SDG#: HMS60-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Limit of Quantitation	Units	Dilution Factor
00111	Moisture	n.a.	9.6	0.50	%	1
Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						
00941	PAH's in Solids by HPLC					
00942	Naphthalene	91-20-3	N.D.	1,800.	ug/kg	5
00951	Acenaphthylene	208-96-8	N.D.	1,500.	ug/kg	5
00953	Acenaphthene	83-32-9	N.D.	1,500.	ug/kg	5
00974	Fluorene	86-73-7	N.D.	150.	ug/kg	5
01007	Phenanthrene	85-01-8	38. J	74.	ug/kg	5
01008	Anthracene	120-12-7	15. J	29.	ug/kg	5
01010	Fluoranthene	206-44-0	110.	29.	ug/kg	5
01012	Pyrene	129-00-0	400.	150.	ug/kg	5
01014	Benzo(a)anthracene	56-55-3	68.	37.	ug/kg	5
01016	Chrysene	218-01-9	N.D.	940.	ug/kg	5
01017	Benzo(b)fluoranthene	205-99-2	180.	74.	ug/kg	5
01018	Benzo(k)fluoranthene	207-08-9	120.	37.	ug/kg	5
01019	Benzo(a)pyrene	50-32-8	150.	74.	ug/kg	5
01022	Dibenz(a,h)anthracene	53-70-3	14. J	29.	ug/kg	5
01025	Indeno(1,2,3-cd)pyrene	193-39-5	150.	74.	ug/kg	5
01026	Benzo(g,h,i)perylene	191-24-2	230.	74.	ug/kg	5

Due to the presence of an interferent near its retention time, the normal reporting limit was not attained for chrysene. The reporting limit for this compound was raised accordingly.

The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.

Due to the sample matrix an initial dilution was necessary to perform the analysis. Therefore, the reporting limits for the PAH by HPLC compounds were raised.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

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Lancaster Laboratories Sample No. SW 4773508

116TSS-04(0-1') Soil Sample
Gulf States Creosoting/Hattiesburg, MS

Collected: 05/15/2006 14:40

Account Number: 11947

Submitted: 05/17/2006 09:05
Reported: 06/02/2006 at 11:45
Discard: 08/02/2006

Tronox LLC
PO Box 3049
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TSS04 SDG#: HMS60-08

CAT

No.	Analysis Name	Method	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
00111	Moisture	EPA 160.3 modified	1	05/18/2006 16:00	Scott W Freisher	1
00941	PAH's in Solids by HPLC	SW-846 8310	1	05/31/2006 14:08	Mark A Clark	5
03338	PAH Solid Extraction	SW-846 3550B	1	05/22/2006 16:00	Maryan G Attalla	1



Lancaster Laboratories Sample No. SW 4773509

116TSW-05(3-4') Soil Sample
Gulf States Creosoting/Hattiesburg, MS

Collected: 05/15/2006 16:20

Account Number: 11947

Submitted: 05/17/2006 09:05
Reported: 06/02/2006 at 11:45
Discard: 08/02/2006

Tronox LLC
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TSW05 SDG#: HMS60-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Limit of Quantitation	Units	Dilution Factor
00111	Moisture	n.a.	13.3	0.50	%	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						
00941	PAH's in Solids by HPLC					
00942	Naphthalene	91-20-3	N.D.	3,800.	ug/kg	10
00951	Acenaphthylene	208-96-8	N.D.	3,100.	ug/kg	10
00953	Acenaphthene	83-32-9	N.D.	3,100.	ug/kg	10
00974	Fluorene	86-73-7	N.D.	310.	ug/kg	10
01007	Phenanthrene	85-01-8	N.D.	150.	ug/kg	10
01008	Anthracene	120-12-7	8.6	62.	ug/kg	10
01010	Fluoranthene	206-44-0	89.	62.	ug/kg	10
01012	Pyrene	129-00-0	150.	310.	ug/kg	10
01014	Benzo(a)anthracene	56-55-3	76.	77.	ug/kg	10
01016	Chrysene	218-01-9	130.	150.	ug/kg	10
01017	Benzo(b)fluoranthene	205-99-2	270.	150.	ug/kg	10
01018	Benzo(k)fluoranthene	207-08-9	120.	77.	ug/kg	10
01019	Benzo(a)pyrene	50-32-8	270.	150.	ug/kg	10
01022	Dibenz(a,h)anthracene	53-70-3	N.D.	62.	ug/kg	10
01025	Indeno(1,2,3-cd)pyrene	193-39-5	190.	150.	ug/kg	10
01026	Benzo(g,h,i)perylene	191-24-2	200.	150.	ug/kg	10

The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.
Due to the sample matrix an initial dilution was necessary to perform the analysis. Therefore, the reporting limits for the PAH by HPLC compounds were raised.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
00111	Moisture	EPA 160.3 modified	1	05/18/2006 16:00	Scott W Freisher	1
00941	PAH's in Solids by HPLC	SW-846 8310	1	05/30/2006 12:54	Mark A Clark	10
03338	PAH Solid Extraction	SW-846 3550B	1	05/22/2006 16:00	Maryan G Attalla	1

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Lancaster Laboratories Sample No. SW 4773509

116TSW-05(3-4') Soil Sample
Gulf States Creosoting/Hattiesburg, MS

Collected: 05/15/2006 16:20

Account Number: 11947

Submitted: 05/17/2006 09:05
Reported: 06/02/2006 at 11:45
Discard: 08/02/2006

Tronox LLC
PO Box 3049
Livonia MI 48150

TSW05 SDG#: HMS60-09



Lancaster Laboratories Sample No. SW 4773510

116TSS-05(0-1') Soil Sample
Gulf States Creosoting/Hattiesburg, MS

Collected: 05/16/2006 08:30

Account Number: 11947

Submitted: 05/17/2006 09:05
Reported: 06/02/2006 at 11:45
Discard: 08/02/2006

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TSS05 SDG#: HMS60-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Limit of Quantitation	Units	Dilution Factor
00111	Moisture	n.a.	16.5	0.50	%	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						
00941	PAH's in Solids by HPLC					
00942	Naphthalene	91-20-3	N.D.	20,000.	ug/kg	50
00951	Acenaphthylene	208-96-8	N.D.	16,000.	ug/kg	50
00953	Acenaphthene	83-32-9	N.D.	16,000.	ug/kg	50
00974	Fluorene	86-73-7	480. J	1,600.	ug/kg	50
01007	Phenanthrene	85-01-8	850.	800.	ug/kg	50
01008	Anthracene	120-12-7	260. J	320.	ug/kg	50
01010	Fluoranthene	206-44-0	5,900.	320.	ug/kg	50
01012	Pyrene	129-00-0	10,000.	1,600.	ug/kg	50
01014	Benzo(a)anthracene	56-55-3	4,300.	400.	ug/kg	50
01016	Chrysene	218-01-9	4,500.	800.	ug/kg	50
01017	Benzo(b)fluoranthene	205-99-2	11,000.	4,000.	ug/kg	250
01018	Benzo(k)fluoranthene	207-08-9	5,200.	400.	ug/kg	50
01019	Benzo(a)pyrene	50-32-8	7,900.	800.	ug/kg	50
01022	Dibenz(a,h)anthracene	53-70-3	800.	320.	ug/kg	50
01025	Indeno(1,2,3-cd)pyrene	193-39-5	6,000.	800.	ug/kg	50
01026	Benzo(g,h,i)perylene	191-24-2	8,600.	800.	ug/kg	50

The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram. Due to the sample matrix an initial dilution was necessary to perform the analysis. Therefore, the reporting limits for the PAH by HPLC compounds were raised.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
00111	Moisture	EPA 160.3 modified	1	05/18/2006 16:00	Scott W Freisher	1
00941	PAH's in Solids by HPLC	SW-846 8310	1	05/30/2006 02:17	Mark A Clark	50
00941	PAH's in Solids by HPLC	SW-846 8310	1	05/30/2006 04:44	Mark A Clark	250

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Lancaster Laboratories Sample No. SW 4773510

116TSS-05(0-1') Soil Sample
Gulf States Creosoting/Hattiesburg, MS

Collected:05/16/2006 08:30

Account Number: 11947

Submitted: 05/17/2006 09:05
Reported: 06/02/2006 at 11:45
Discard: 08/02/2006

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TSS05 SDG#: HMS60-10
03338 PAH Solid Extraction

SW-846 3550B

1 05/22/2006 16:00 Maryan G Attalla

1



Lancaster Laboratories Sample No. SW 4773511

116TSW-06(3-4') Soil Sample
Gulf States Creosoting/Hattiesburg, MS

Collected: 05/16/2006 14:30

Account Number: 11947

Submitted: 05/17/2006 09:05
Reported: 06/02/2006 at 11:45
Discard: 08/02/2006

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TSW06 SDG#: HMS60-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Limit of Quantitation	Units	Dilution Factor
00111	Moisture	n.a.	13.4	0.50	%	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						
00941	PAH's in Solids by HPLC					
00942	Naphthalene	91-20-3	N.D.	380.	ug/kg	1
00951	Acenaphthylene	208-96-8	N.D.	310.	ug/kg	1
00953	Acenaphthene	83-32-9	N.D.	310.	ug/kg	1
00974	Fluorene	86-73-7	16. J	31.	ug/kg	1
01007	Phenanthrene	85-01-8	14. J	15.	ug/kg	1
01008	Anthracene	120-12-7	2.9 J	6.2	ug/kg	1
01010	Fluoranthene	206-44-0	39.	6.2	ug/kg	1
01012	Pyrene	129-00-0	130.	31.	ug/kg	1
01014	Benzo(a)anthracene	56-55-3	41.	7.7	ug/kg	1
01016	Chrysene	218-01-9	56.	15.	ug/kg	1
01017	Benzo(b)fluoranthene	205-99-2	190.	150.	ug/kg	10
01018	Benzo(k)fluoranthene	207-08-9	89.	7.7	ug/kg	1
01019	Benzo(a)pyrene	50-32-8	180.	150.	ug/kg	10
01022	Dibenz(a,h)anthracene	53-70-3	18.	6.2	ug/kg	1
01025	Indeno(1,2,3-cd)pyrene	193-39-5	160.	15.	ug/kg	1
01026	Benzo(g,h,i)perylene	191-24-2	200.	15.	ug/kg	1

The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
00111	Moisture	EPA 160.3 modified	1	05/18/2006 16:00	Scott W Freisher	1
00941	PAH's in Solids by HPLC	SW-846 8310	1	05/30/2006 13:41	Mark A Clark	10
00941	PAH's in Solids by HPLC	SW-846 8310	1	05/31/2006 11:19	Mark A Clark	1
03338	PAH Solid Extraction	SW-846 3550B	1	05/22/2006 16:00	Maryan G Attalla	1

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Lancaster Laboratories Sample No. SW 4773512

116TSW-07(3-4') Soil Sample
Gulf States Creosoting/Hattiesburg, MS

Collected: 05/16/2006 14:40

Account Number: 11947

Submitted: 05/17/2006 09:05
Reported: 06/02/2006 at 11:45
Discard: 08/02/2006

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Livonia MI 48150

TSW07 SDG#: HMS60-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Limit of Quantitation	Units	Dilution Factor
00111	Moisture	n.a.	16.6	0.50	%	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						
00941	PAH's in Solids by HPLC					
00942	Naphthalene	91-20-3	N.D.	2,000.	ug/kg	5
00951	Acenaphthylene	208-96-8	N.D.	1,600.	ug/kg	5
00953	Acenaphthene	83-32-9	N.D.	1,600.	ug/kg	5
00974	Fluorene	86-73-7	26. J	160.	ug/kg	5
01007	Phenanthrene	85-01-8	46. J	80.	ug/kg	5
01008	Anthracene	120-12-7	15. J	32.	ug/kg	5
01010	Fluoranthene	206-44-0	99.	32.	ug/kg	5
01012	Pyrene	129-00-0	170.	160.	ug/kg	5
01014	Benzo(a)anthracene	56-55-3	92.	40.	ug/kg	5
01016	Chrysene	218-01-9	110.	80.	ug/kg	5
01017	Benzo(b)fluoranthene	205-99-2	270.	80.	ug/kg	5
01018	Benzo(k)fluoranthene	207-08-9	120.	40.	ug/kg	5
01019	Benzo(a)pyrene	50-32-8	250.	80.	ug/kg	5
01022	Dibenz(a,h)anthracene	53-70-3	25. J	32.	ug/kg	5
01025	Indeno(1,2,3-cd)pyrene	193-39-5	220.	80.	ug/kg	5
01026	Benzo(g,h,i)perylene	191-24-2	270.	80.	ug/kg	5

Due to the sample matrix an initial dilution was necessary to perform the analysis. Therefore, the reporting limits for the PAH by HPLC compounds were raised.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
00111	Moisture	EPA 160.3 modified	1	05/18/2006 16:00	Scott W Freisher	1
00941	PAH's in Solids by HPLC	SW-846 8310	1	05/31/2006 14:54	Mark A Clark	5
03338	PAH Solid Extraction	SW-846 35508	1	05/22/2006 16:00	Maryan G Attalla	1

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Lancaster Laboratories Sample No. SW 4773512

116TSW-07(3-4') Soil Sample
Gulf States Creosoting/Hattiesburg, MS

Collected: 05/16/2006 14:40

Account Number: 11947

Submitted: 05/17/2006 09:05
Reported: 06/02/2006 at 11:45
Discard: 08/02/2006

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TSW07 SDG#: HMS60-12



Lancaster Laboratories Sample No. SW 4773513

116TSW-09(3-4') Soil Sample
Gulf States Creosoting/Hattiesburg, MS

Collected: 05/16/2006 14:45

Account Number: 11947

Submitted: 05/17/2006 09:05
Reported: 06/02/2006 at 11:45
Discard: 08/02/2006

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TSW09 SDG#: HMS60-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Limit of Quantitation	Units	Dilution Factor
00111	Moisture	n.a.	17.5		0.50	%	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							
00941	PAH's in Solids by HPLC						
00942	Naphthalene	91-20-3	110.	J	400.	ug/kg	1
00951	Acenaphthylene	208-96-8	67.	J	320.	ug/kg	1
00953	Acenaphthene	83-32-9	N.D.		320.	ug/kg	1
00974	Fluorene	86-73-7	29.	J	32.	ug/kg	1
01007	Phenanthrene	85-01-8	67.		16.	ug/kg	1
01008	Anthracene	120-12-7	12.		6.5	ug/kg	1
01010	Fluoranthene	206-44-0	34.		6.5	ug/kg	1
01012	Pyrene	129-00-0	28.	J	32.	ug/kg	1
01014	Benzo(a)anthracene	56-55-3	8.1	J	8.1	ug/kg	1
01016	Chrysene	218-01-9	N.D.		160.	ug/kg	1
01017	Benzo(b)fluoranthene	205-99-2	11.	J	16.	ug/kg	1
01018	Benzo(k)fluoranthene	207-08-9	5.3	J	8.1	ug/kg	1
01019	Benzo(a)pyrene	50-32-8	9.8	J	16.	ug/kg	1
01022	Dibenz(a,h)anthracene	53-70-3	N.D.		6.5	ug/kg	1
01025	Indeno(1,2,3-cd)pyrene	193-39-5	9.3	J	16.	ug/kg	1
01026	Benzo(g,h,i)perylene	191-24-2	13.	J	16.	ug/kg	1

Due to the presence of an interferent near its retention time, the normal reporting limit was not attained for chrysene. The reporting limit for this compound was raised accordingly.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
00111	Moisture	EPA 160.3 modified	1	05/18/2006 16:00	Scott W Freisher	1
00941	PAH's in Solids by HPLC	SW-846 8310	1	05/31/2006 11:58	Mark A Clark	1
03338	PAH Solid Extraction	SW-846 3550B	1	05/22/2006 16:00	Maryan G Attalla	1

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Lancaster Laboratories Sample No. SW 4773513

116TSW-09(3-4') Soil Sample
Gulf States Creosoting/Hattiesburg, MS

Collected: 05/16/2006 14:45

Account Number: 11947

Submitted: 05/17/2006 09:05
Reported: 06/02/2006 at 11:45
Discard: 08/02/2006

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TSW09 SDG#: HMS60-13



Lancaster Laboratories Sample No. SW 4773514

116TSW-08(3-4') Soil Sample
Gulf States Creosoting/Hattiesburg, MS

Collected: 05/16/2006 14:50

Account Number: 11947

Submitted: 05/17/2006 09:05
Reported: 06/02/2006 at 11:45
Discard: 08/02/2006

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TSW08 SDG#: HMS60-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Limit of Quantitation	Units	Dilution Factor
00111	Moisture	n.a.	16.6		0.50	%	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							
00941	PAH's in Solids by HPLC						
00942	Naphthalene	91-20-3	100.	J	400.	ug/kg	1
00951	Acenaphthylene	208-96-8	N.D.		320.	ug/kg	1
00953	Acenaphthene	83-32-9	N.D.		320.	ug/kg	1
00974	Fluorene	86-73-7	13.	J	32.	ug/kg	1
01007	Phenanthrene	85-01-8	34.		16.	ug/kg	1
01008	Anthracene	120-12-7	N.D.		12.	ug/kg	1
01010	Fluoranthene	206-44-0	6.1	J	6.4	ug/kg	1
01012	Pyrene	129-00-0	12.	J	32.	ug/kg	1
01014	Benzo(a)anthracene	56-55-3	4.1	J	8.0	ug/kg	1
01016	Chrysene	218-01-9	N.D.		110.	ug/kg	1
01017	Benzo(b)fluoranthene	205-99-2	12.	J	16.	ug/kg	1
01018	Benzo(k)fluoranthene	207-08-9	6.4	J	8.0	ug/kg	1
01019	Benzo(a)pyrene	50-32-8	11.	J	16.	ug/kg	1
01022	Dibenz(a,h)anthracene	53-70-3	N.D.		6.4	ug/kg	1
01025	Indeno(1,2,3-cd)pyrene	193-39-5	10.	J	16.	ug/kg	1
01026	Benzo(g,h,i)perylene	191-24-2	16.		16.	ug/kg	1

Due to the presence of interferents near their retention times, normal reporting limits were not attained for several target compounds. The reporting limits for these compounds were raised accordingly.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
00111	Moisture	EPA 160.3 modified	1	05/18/2006 16:00	Scott W Freisher	1
00941	PAH's in Solids by HPLC	SW-846 8310	1	05/31/2006 12:37	Mark A Clark	1
03338	PAH Solid Extraction	SW-846 3550B	1	05/22/2006 16:00	Maryan G Attalla	1

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Lancaster Laboratories Sample No. SW 4773514

116TSW-08(3-4') Soil Sample
Gulf States Creosoting/Hattiesburg, MS

Collected: 05/16/2006 14:50

Account Number: 11947

Submitted: 05/17/2006 09:05
Reported: 06/02/2006 at 11:45
Discard: 08/02/2006

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PO Box 3049
Livonia MI 48150

TSW08 SDG#: HMS60-14



Lancaster Laboratories Sample No. SW 4773515

116TSS-07(0-1') Soil Sample
Gulf States Creosoting/Hattiesburg, MS

Collected: 05/16/2006 15:50

Account Number: 11947

Submitted: 05/17/2006 09:05
Reported: 06/02/2006 at 11:45
Discard: 08/02/2006

Tronox LLC
PO Box 3049
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TSS07 SDG#: HMS60-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Limit of Quantitation	Units	Dilution Factor
00111	Moisture	n.a.	17.6	0.50	%	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						
00941	PAH's in Solids by HPLC					
00942	Naphthalene	91-20-3	N.D.	20,000.	ug/kg	50
00951	Acenaphthylene	208-96-8	N.D.	16,000.	ug/kg	50
00953	Acenaphthene	83-32-9	N.D.	16,000.	ug/kg	50
00974	Fluorene	86-73-7	340. J	1,600.	ug/kg	50
01007	Phenanthrene	85-01-8	760. J	810.	ug/kg	50
01008	Anthracene	120-12-7	210. J	320.	ug/kg	50
01010	Fluoranthene	206-44-0	4,200.	320.	ug/kg	50
01012	Pyrene	129-00-0	6,500.	1,600.	ug/kg	50
01014	Benzo(a)anthracene	56-55-3	3,000.	400.	ug/kg	50
01016	Chrysene	218-01-9	3,600.	810.	ug/kg	50
01017	Benzo(b)fluoranthene	205-99-2	8,600.	4,000.	ug/kg	250
01018	Benzo(k)fluoranthene	207-08-9	4,300.	400.	ug/kg	50
01019	Benzo(a)pyrene	50-32-8	6,500.	810.	ug/kg	50
01022	Dibenz(a,h)anthracene	53-70-3	760.	320.	ug/kg	50
01025	Indeno(1,2,3-cd)pyrene	193-39-5	5,300.	810.	ug/kg	50
01026	Benzo(g,h,i)perylene	191-24-2	7,700.	810.	ug/kg	50

The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.
Due to the sample matrix an initial dilution was necessary to perform the analysis. Therefore, the reporting limits for the PAH by HPLC compounds were raised.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
00111	Moisture	EPA 160.3 modified	1	05/18/2006 16:00	Scott W Freisher	1
00941	PAH's in Solids by HPLC	SW-846 8310	1	05/30/2006 16:43	Mark A Clark	50
00941	PAH's in Solids by HPLC	SW-846 8310	1	05/31/2006 16:25	Mark A Clark	250

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Lancaster Laboratories Sample No. SW 4773515

116TSS-07(0-1') Soil Sample
Gulf States Creosoting/Hattiesburg, MS

Collected: 05/16/2006 15:50

Account Number: 11947

Submitted: 05/17/2006 09:05
Reported: 06/02/2006 at 11:45
Discard: 08/02/2006

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Livonia MI 48150

TSS07 SDG#: HMS60-15
03338 PAH Solid Extraction

SW-846 3550B

1 05/22/2006 16:00 Maryan G Attalla

1



Lancaster Laboratories Sample No. SW 4773516

116TSS-09(0-1') Soil Sample
Gulf States Creosoting/Hattiesburg, MS

Collected: 05/16/2006 15:55

Account Number: 11947

Submitted: 05/17/2006 09:05
Reported: 06/02/2006 at 11:45
Discard: 08/02/2006

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TSS09 SDG#: HMS60-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Limit of Quantitation	Units	Dilution Factor
00111	Moisture	n.a.	17.4	0.50	%	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						
00941	PAH's in Solids by HPLC					
00942	Naphthalene	91-20-3	N.D.	8,100.	ug/kg	20
00951	Acenaphthylene	208-96-8	N.D.	6,500.	ug/kg	20
00953	Acenaphthene	83-32-9	N.D.	6,500.	ug/kg	20
00974	Fluorene	86-73-7	170. J	650.	ug/kg	20
01007	Phenanthrene	85-01-8	270. J	320.	ug/kg	20
01008	Anthracene	120-12-7	91. J	130.	ug/kg	20
01010	Fluoranthene	206-44-0	1,300.	130.	ug/kg	20
01012	Pyrene	129-00-0	2,800.	650.	ug/kg	20
01014	Benzo(a)anthracene	56-55-3	1,300.	160.	ug/kg	20
01016	Chrysene	218-01-9	1,500.	320.	ug/kg	20
01017	Benzo(b)fluoranthene	205-99-2	3,900.	810.	ug/kg	50
01018	Benzo(k)fluoranthene	207-08-9	2,100.	160.	ug/kg	20
01019	Benzo(a)pyrene	50-32-8	3,500.	810.	ug/kg	50
01022	Dibenz(a,h)anthracene	53-70-3	350.	130.	ug/kg	20
01025	Indeno(1,2,3-cd)pyrene	193-39-5	2,700.	320.	ug/kg	20
01026	Benzo(g,h,i)perylene	191-24-2	3,800.	320.	ug/kg	20

The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.
Due to the sample matrix an initial dilution was necessary to perform the analysis. Therefore, the reporting limits for the PAH by HPLC compounds were raised.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
00111	Moisture	EPA 160.3 modified	1	05/18/2006 16:00	Scott W Freisher	1
00941	PAH's in Solids by HPLC	SW-846 8310	1	05/31/2006 05:23	Mark A Clark	20
00941	PAH's in Solids by HPLC	SW-846 8310	1	05/31/2006 06:08	Mark A Clark	50

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Lancaster Laboratories Sample No. SW 4773516

116TSS-09(0-1') Soil Sample
Gulf States Creosoting/Hattiesburg, MS

Collected: 05/16/2006 15:55

Account Number: 11947

Submitted: 05/17/2006 09:05
Reported: 06/02/2006 at 11:45
Discard: 08/02/2006

Tronox LLC
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TSS09 SDG#: HMS60-16
03338 PAH Solid Extraction SW-846 3550B 1 05/22/2006 16:00 Maryan G Attalla 1



Lancaster Laboratories Sample No. SW 4773517

116TSS-10(0-1') Soil Sample
Gulf States Creosoting/Hattiesburg, MS

Collected: 05/16/2006 16:00

Account Number: 11947

Submitted: 05/17/2006 09:05
Reported: 06/02/2006 at 11:45
Discard: 08/02/2006

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TSS10 SDG#: HMS60-17

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Limit of Quantitation	Units	Dilution Factor
00111	Moisture	n.a.	8.6		0.50	†	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							
00941	PAH's in Solids by HPLC						
00942	Naphthalene	91-20-3	64.	J	360.	ug/kg	1
00951	Acenaphthylene	208-96-8	N.D.		290.	ug/kg	1
00953	Acenaphthene	83-32-9	N.D.		290.	ug/kg	1
00974	Fluorene	86-73-7	12.	J	29.	ug/kg	1
01007	Phenanthrene	85-01-8	7.6	J	15.	ug/kg	1
01008	Anthracene	120-12-7	4.7	J	5.8	ug/kg	1
01010	Fluoranthene	206-44-0	12.		5.8	ug/kg	1
01012	Pyrene	129-00-0	17.	J	29.	ug/kg	1
01014	Benzo(a)anthracene	56-55-3	6.9	J	7.3	ug/kg	1
01016	Chrysene	218-01-9	N.D.		49.	ug/kg	1
01017	Benzo(b)fluoranthene	205-99-2	20.		15.	ug/kg	1
01018	Benzo(k)fluoranthene	207-08-9	10.		7.3	ug/kg	1
01019	Benzo(a)pyrene	50-32-8	17.		15.	ug/kg	1
01022	Dibenz(a,h)anthracene	53-70-3	N.D.		5.8	ug/kg	1
01025	Indeno(1,2,3-cd)pyrene	193-39-5	11.	J	15.	ug/kg	1
01026	Benzo(g,h,i)perylene	191-24-2	16.		15.	ug/kg	1

Due to the presence of an interferent near its retention time, the normal reporting limit was not attained for chrysene. The reporting limit for this compound was raised accordingly.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
00111	Moisture	EPA 160.3 modified	1	05/18/2006 16:00	Scott W Freisher	1
00941	PAH's in Solids by HPLC	SW-846 8310	1	05/31/2006 09:23	Mark A Clark	1
03338	PAH Solid Extraction	SW-846 3550B	1	05/22/2006 16:00	Maryan G Attalla	1

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Lancaster Laboratories Sample No. SW 4773517

116TSS-10(0-1') Soil Sample
Gulf States Creosoting/Hattiesburg, MS

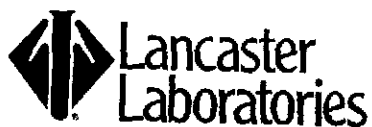
Collected: 05/16/2006 16:00

Account Number: 11947

Submitted: 05/17/2006 09:05
Reported: 06/02/2006 at 11:45
Discard: 08/02/2006

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TSS10 SDG#: HMS60-17



Lancaster Laboratories Sample No. SW 4773518

116TSS-08(0-1') Soil Sample
Gulf States Creosoting/Hattiesburg, MS

Collected: 05/16/2006 16:10

Account Number: 11947

Submitted: 05/17/2006 09:05
Reported: 06/02/2006 at 11:45
Discard: 08/02/2006

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TSS08 SDG#: HMS60-18

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Limit of Quantitation	Units	Dilution Factor
00111	Moisture	n.a.	12.0	0.50	%	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						
00941	PAH's in Solids by HPLC					
00942	Naphthalene	91-20-3	N.D.	19,000.	ug/kg	50
00951	Acenaphthylene	208-96-8	N.D.	15,000.	ug/kg	50
00953	Acenaphthene	83-32-9	N.D.	15,000.	ug/kg	50
00974	Fluorene	86-73-7	N.D.	1,500.	ug/kg	50
01007	Phenanthrene	85-01-8	260.	760.	ug/kg	50
01008	Anthracene	120-12-7	68.	300.	ug/kg	50
01010	Fluoranthene	206-44-0	870.	300.	ug/kg	50
01012	Pyrene	129-00-0	1,800.	1,500.	ug/kg	50
01014	Benzo(a)anthracene	56-55-3	660.	380.	ug/kg	50
01016	Chrysene	218-01-9	710.	760.	ug/kg	50
01017	Benzo(b)fluoranthene	205-99-2	2,300.	760.	ug/kg	50
01018	Benzo(k)fluoranthene	207-08-9	1,300.	380.	ug/kg	50
01019	Benzo(a)pyrene	50-32-8	2,100.	760.	ug/kg	50
01022	Dibenz(a,h)anthracene	53-70-3	240.	300.	ug/kg	50
01025	Indeno(1,2,3-cd)pyrene	193-39-5	1,800.	760.	ug/kg	50
01026	Benzo(g,h,i)perylene	191-24-2	2,800.	760.	ug/kg	50

The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.
Due to the sample matrix an initial dilution was necessary to perform the analysis. Therefore, the reporting limits for the PAH by HPLC compounds were raised.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
00111	Moisture	EPA 160.3 modified	1	05/18/2006 16:00	Scott W Freisher	1
00941	PAH's in Solids by HPLC	SW-846 8310	1	05/31/2006 06:47	Mark A Clark	50
03338	PAH Solid Extraction	SW-846 3550B	1	05/22/2006 16:00	Maryan G Attalla	1

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Lancaster Laboratories Sample No. SW 4773518

116TSS-08(0-1') Soil Sample
Gulf States Creosoting/Hattiesburg, MS

Collected: 05/16/2006 16:10

Account Number: 11947

Submitted: 05/17/2006 09:05
Reported: 06/02/2006 at 11:45
Discard: 08/02/2006

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TSS08 SDG#: HMS60-18



Lancaster Laboratories Sample No. SW 4773519

116TSW-10(3-4') Soil Sample
Gulf States Creosoting/Hattiesburg, MS

Collected: 05/16/2006 16:30

Account Number: 11947

Submitted: 05/17/2006 09:05
Reported: 06/02/2006 at 11:45
Discard: 08/02/2006

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TSW10 SDG#: HMS60-19

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Limit of Quantitation	Units	Dilution Factor
00111	Moisture	n.a.	17.7	0.50	%	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						
00941	PAH's in Solids by HPLC					
00942	Naphthalene	91-20-3	N.D.	410.	ug/kg	1
00951	Acenaphthylene	208-96-8	N.D.	320.	ug/kg	1
00953	Acenaphthene	83-32-9	N.D.	320.	ug/kg	1
00974	Fluorene	86-73-7	8.3 J	32.	ug/kg	1
01007	Phenanthrene	85-01-8	27.	16.	ug/kg	1
01008	Anthracene	120-12-7	3.8 J	6.5	ug/kg	1
01010	Fluoranthene	206-44-0	18.	6.5	ug/kg	1
01012	Pyrene	129-00-0	16. J	32.	ug/kg	1
01014	Benzo(a)anthracene	56-55-3	4.4 J	8.1	ug/kg	1
01016	Chrysene	218-01-9	7.4 J	16.	ug/kg	1
01017	Benzo(b)fluoranthene	205-99-2	6.6 J	16.	ug/kg	1
01018	Benzo(k)fluoranthene	207-08-9	3.4 J	8.1	ug/kg	1
01019	Benzo(a)pyrene	50-32-8	6.6 J	16.	ug/kg	1
01022	Dibenz(a,h)anthracene	53-70-3	N.D.	6.5	ug/kg	1
01025	Indeno(1,2,3-cd)pyrene	193-39-5	6.9 J	16.	ug/kg	1
01026	Benzo(g,h,i)perylene	191-24-2	11. J	16.	ug/kg	1

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
00111	Moisture	EPA 160.3 modified	1	05/18/2006 16:00	Scott W Freisher	1
00941	PAH's in Solids by HPLC	SW-846 8310	1	05/31/2006 08:05	Mark A Clark	1
03338	PAH Solid Extraction	SW-846 3550B	1	05/22/2006 16:00	Maryan G Attalla	1

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Lancaster Laboratories Sample No. SW 4773520

116TSW-06(0-1') Soil Sample
Gulf States Creosoting/Hattiesburg, MS

Collected: 05/16/2006 08:40

Account Number: 11947

Submitted: 05/17/2006 09:05
Reported: 06/02/2006 at 11:45
Discard: 08/02/2006

Tronox LLC
PO Box 3049
Livonia MI 48150

TSW-6 SDG#: HMS60-20*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Limit of Quantitation	Units	Dilution Factor
00111	Moisture	n.a.	10.9		0.50	%	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							
00941	PAH's in Solids by HPLC						
00942	Naphthalene	91-20-3	57.	J	370.	ug/kg	1
00951	Acenaphthylene	208-96-8	47.	J	300.	ug/kg	1
00953	Acenaphthene	83-32-9	N.D.		300.	ug/kg	1
00974	Fluorene	86-73-7	19.	J	30.	ug/kg	1
01007	Phenanthrene	85-01-8	57.		15.	ug/kg	1
01008	Anthracene	120-12-7	7.6		6.0	ug/kg	1
01010	Fluoranthene	206-44-0	36.		6.0	ug/kg	1
01012	Pyrene	129-00-0	38.		30.	ug/kg	1
01014	Benzo(a)anthracene	56-55-3	11.		7.5	ug/kg	1
01016	Chrysene	218-01-9	N.D.		28.	ug/kg	1
01017	Benzo(b)fluoranthene	205-99-2	22.		15.	ug/kg	1
01018	Benzo(k)fluoranthene	207-08-9	11.		7.5	ug/kg	1
01019	Benzo(a)pyrene	50-32-8	20.		15.	ug/kg	1
01022	Dibenz(a,h)anthracene	53-70-3	N.D.		6.0	ug/kg	1
01025	Indeno(1,2,3-cd)pyrene	193-39-5	16.		15.	ug/kg	1
01026	Benzo(g,h,i)perylene	191-24-2	23.		15.	ug/kg	1

Due to the presence of an interferent near its retention time, the normal reporting limit was not attained for chrysene. The reporting limit for this compound was raised accordingly.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
00111	Moisture	EPA 160.3 modified	1	05/18/2006 16:00	Scott W Freisher	1
00941	PAH's in Solids by HPLC	SW-846 8310	1	05/31/2006 08:44	Mark A Clark	1
03338	PAH Solid Extraction	SW-846 3550B	1	05/22/2006 16:00	Maryan G Attalla	1

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Lancaster Laboratories Sample No. SW 4773520

116TSW-06(0-1') Soil Sample
Gulf States Creosoting/Hattiesburg, MS

Collected: 05/16/2006 08:40

Account Number: 11947

Submitted: 05/17/2006 09:05
Reported: 06/02/2006 at 11:45
Discard: 08/02/2006

Tronox LLC
PO Box 3049
Livonia MI 48150

TSW-6 SDG#: HMS60-20*



Quality Control Summary

Client Name: Tronox LLC
 Reported: 06/02/06 at 11:45 AM

Group Number: 989894

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 06138820005A Moisture	Sample number(s): 4773501-4773510			100		99-101		
Batch number: 06138820005B Moisture	Sample number(s): 4773511-4773520			100		99-101		
Batch number: 06142SLF026	Sample number(s): 4773501-4773520							
Naphthalene	N.D.	330.	ug/kg	75		61-120		
Acenaphthylene	N.D.	270.	ug/kg	78		66-110		
Acenaphthene	N.D.	270.	ug/kg	82		77-100		
Fluorene	N.D.	27.	ug/kg	84		71-106		
Phenanthrene	N.D.	13.	ug/kg	87		73-112		
Anthracene	N.D.	5.3	ug/kg	84		68-117		
Fluoranthene	N.D.	5.3	ug/kg	88		73-107		
Pyrene	N.D.	27.	ug/kg	88		67-117		
Benzo(a)anthracene	N.D.	6.7	ug/kg	89		72-115		
Chrysene	N.D.	13.	ug/kg	87		71-108		
Benzo(b)fluoranthene	N.D.	13.	ug/kg	88		74-118		
Benzo(k)fluoranthene	N.D.	6.7	ug/kg	90		71-119		
Benzo(a)pyrene	N.D.	13.	ug/kg	91		77-111		
Dibenz(a,h)anthracene	N.D.	5.3	ug/kg	89		73-116		
Indeno(1,2,3-cd)pyrene	N.D.	13.	ug/kg	85		68-129		
Benzo(g,h,i)perylene	N.D.	13.	ug/kg	88		73-116		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
 Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 06138820005A Moisture	Sample number(s): 4773501-4773510					BKG: 4773504 15.8	15.6	1	15
Batch number: 06138820005B Moisture	Sample number(s): 4773511-4773520					BKG: 4773514 16.6	17.2	4	15
Batch number: 06142SLF026	Sample number(s): 4773501-4773520					UNSPK: 4773510			
Naphthalene	88	78	61-104	12	50				
Acenaphthylene	85	76	63-109	12	50				
Acenaphthene	74	66*	69-106	12	50				
Fluorene	54*	42*	74-111	11	50				
Phenanthrene	8*	1*	52-144	2	50				
Anthracene	37*	11*	63-123	10	50				

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The background result was more than four times the spike added.



Quality Control Summary

Client Name: Tronox LLC
 Reported: 06/02/06 at 11:45 AM

Group Number: 989894

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
 Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS	MSD	MS/MSD	RPD		BKG	DUP	DUP	Dup RPD
	%REC	%REC	Limits	RPD	MAX	Conc	Conc	RPD	Max
Fluoranthene	(2)	(2)	14-177	32	50				
Pyrene	(2)	(2)	61-120	23	50				
Benzo(a)anthracene	(2)	(2)	3-99	27	50				
Chrysene	(2)	(2)	58-129	27	50				
Benzo(b)fluoranthene	(2)	(2)	19-176	23	50				
Benzo(k)fluoranthene	(2)	(2)	26-146	24	50				
Benzo(a)pyrene	(2)	(2)	27-168	25	50				
Dibenz(a,h)anthracene	(2)	(2)	59-131	29	50				
Indeno(1,2,3-cd)pyrene	(2)	(2)	53-127	26	50				
Benzo(g,h,i)perylene	(2)	(2)	58-125	27	50				

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: PAH's in Solids by HPLC
 Batch number: 06142SLF026

Nitrobenzene		Triphenylene
4773501	79	1309*
4773502	84	270*
4773503	83	3123*
4773504	81	44696*
4773505	84	2294*
4773506	87	1067*
4773507	87	901*
4773508	90	877*
4773509	83	250*
4773510	82	3275*
4773511	86	228*
4773512	78	193*
4773513	84	106
4773514	84	118
4773515	79	2559*
4773516	79	1312*
4773517	81	116
4773518	83	763*
4773519	83	115
4773520	83	112
Blank	87	121
LCS	87	122
MS	75	2523*
MSD	67	2540*
Limits:	59-121	44-168

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The background result was more than four times the spike added.

Lancaster Laboratories, Inc
 2425 New Holland Pke
 PO Box 12425
 Lancaster, PA 17605-2425
 717-656-2300 Fax 717-656-2681



Quality Control Summary

Client Name: Tronox LLC

Reported: 06/02/06 at 11:45 AM

Group Number: 989894

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The background result was more than four times the spike added.

Lancaster Laboratories, Inc
2425 New Holland Pike
PO Box 12425
Lancaster, PA 17605-2425
717-656-2300 Fax 717-656-2681

Analysis Request/ Environmental Services Chain of Custody



For Lancaster Laboratories use only
 Acct. # 11947 Group# 989894 Sample # 4773501-20 **COC #** 0123322

Please print. Instructions on reverse side correspond with circled numbers.

1 Client: WILHA EL PESARI ASSOC. Acct. #: _____
 Project Name#: HATTESBIEG PWSID #: _____
 Project Manager: DAVE WATHEBROVE P.O.#: 21-04
 Sampler: [Signature] Quote #: _____
 Name of state where samples were collected: MS

4 MS by SHW

5

For Lab Use Only
 FSC: _____
 SCR #: 28717

6

Sample ID	Acct. #	PWSID	Quote #	Remarks
116TSS-01/0-1	5-15-06	1335		
116TSS-02/0-1		1340		
116TSW-01/4-5		1345		
116TSW-02/4-5		1350		
116TSW-03/4-5		1405		
116TSW-04/4-5		1410		
116TSS-03/0-1		1435		
116TSS-04/0-1		1440		
116TSW-05/3-4		1620		
116TSS-05/0-1	5-16-06	0030		

7 Turnaround Time Requested (TAT) (please circle): Normal Rush
 (Rush TAT is subject to Lancaster Laboratories approval and surcharge.)
 Date results are needed: _____

Rush results requested by (please circle): Phone _____ Fax _____ E-mail _____
 Phone #: 281-212-5766 Fax #: 281-292-0737
 E-mail address: dwattheb@ix.netcom.com

8 Data Package Options (please circle if required)

QC Summary	Type VI (Raw Data)	SDG Complete?
Type I (Tier I)	GLP	Yes No
Type II (Tier II)	Other	Yes No
Type III (NJ Red. Del.)		Yes No
Type IV (CLP)		Yes No

Site-specific QC required? Yes No
 (If yes, indicate QC sample and submit triplicate volume.)
 Internal Chain of Custody required? Yes No

Relinquished by: [Signature] Date: 5-15-06 Time: 1240
 Relinquished by: [Signature] Date: 5-16 Time: 1730
 Relinquished by: _____ Date: _____ Time: _____
 Relinquished by: _____ Date: _____ Time: _____
 Relinquished by: _____ Date: _____ Time: _____
 Relinquished by: _____ Date: _____ Time: _____

Date: 5-16 Time: 1700
 Date: 5-16 Time: 1730
 Date: _____ Time: _____
 Date: 5/17/06 Time: 0905

Analysis Request/ Environmental Services Chain of Custody



For Lancaster Laboratories use only
 Act. # 11947 Group # 98894 Sample # 4773501-20 **COC # 0123313**

Please print. Instructions on reverse side correspond with circled numbers.

1		3		4		5		6		9			
Client: <u>MICHAEL FISLAND ASSOC</u>		Acct. #: _____		FSC: _____		SCR #: _____		Remarks		Date	Time		
Project Name: # <u>HARTDES BUREAU</u>		PWSID #: _____		X		X		X		<u>5-16</u>	<u>0730</u>		
Project Manager: <u>DAVE WATKINS</u>		P.O.#: _____								Date	Time		
Sampler: <u>DL</u>		Quote #: _____								Date	Time		
Name of state where samples were collected: _____										Date	Time		
2										Date	Time		
116 TSW - 06/3-41		1430		X		X		X		<u>5-16</u>	<u>0730</u>		
116 TSW - 07/3-41		1440								Date	Time		
116 TSW - 09/3-41		1445								Date	Time		
116 TSW - 02/3-41		1450								Date	Time		
116 TSS - 07/0-1		1550								Date	Time		
116 TSS - 09/0-1		1555								Date	Time		
116 TSS - 10/0-1		1660								Date	Time		
116 TSS - 08/0-1		1610								Date	Time		
116 TSW - 10/3-41		1630		Y		Y		Y		Date	Time		
116 TSW - 06/0-1		0340		Y		Y		Y		Date	Time		
7		Turnaround Time Requested (TAT) (please circle): Normal <u>Rush</u>		Relinquished by: <u>DL</u>		Time Relinquished: <u>0730</u>		Date Relinquished: <u>5-16-06</u>		Time Received by: <u>Red GX</u>		Date Received: <u>5-16</u>	Time Received: <u>0730</u>
Date results are needed:		(Rush TAT is subject to Lancaster Laboratories approval and surcharge.)		Relinquished by:		Time Relinquished:		Date Relinquished:		Time Received by:		Date Received:	
Rush results requested by (please circle): Phone <u>E-mail</u>		Phone #: <u>301/242-5700</u> Fax #: <u>301/242-1731</u>		Relinquished by:		Time Relinquished:		Date Relinquished:		Time Received by:		Date Received:	
E-mail address: <u>dl@lancasterlab.com</u>		8		Data Package Options (please circle if required)		SDG Completes?		Relinquished by:		Time Relinquished:		Date Relinquished:	
QC Summary		Type VI (Raw Data)		Yes <u>No</u>		Yes <u>No</u>		Relinquished by:		Time Relinquished:		Date Relinquished:	
Type I (Tier I)		GLP		Site-specific QC required?		Yes <u>No</u>		Relinquished by:		Time Relinquished:		Date Relinquished:	
Type II (Tier II)		Other		(If yes, indicate QC sample and submit triplicate volume.)				Relinquished by:		Time Relinquished:		Date Relinquished:	
Type III (NJ Red. Del.)				Internal Chain of Custody required?		Yes <u>No</u>		Relinquished by:		Time Relinquished:		Date Relinquished:	
Type IV (CLP)								Relinquished by:		Time Relinquished:		Date Relinquished:	



ANALYTICAL RESULTS

Prepared for:

Tronox, LLC
P.O. Box 268859
Oklahoma City OK 73126-8859

405-775-5429

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

SAMPLE GROUP

The sample group for this submittal is 990273. Samples arrived at the laboratory on Friday, May 19, 2006. The PO# for this group is ZAKWICEOK0A50149.

Client Description

116TSS-01A/0-1' Composite Soil Sample
116TSS-02A/0-1' Composite Soil Sample
116TSS-03A/0-1' Composite Soil Sample
116TSS-04A/0-1' Composite Soil Sample
116TSS-05A/0-1' Composite Soil Sample
116TSS-06A/0-1' Composite Soil Sample
116TSS-07A/0-1' Composite Soil Sample
116TSS-08A/0-1' Composite Soil Sample
116TSS-09A/0-1' Composite Soil Sample

Lancaster Labs Number

4775878
4775879
4775880
4775881
4775882
4775883
4775884
4775885
4775886

METHODOLOGY

The specific methodologies used in obtaining the enclosed analytical results are indicated on the laboratory chronicles.

1 COPY TO

Michael Pisani & Associates

Attn: David Uptegrove



Questions? Contact your Client Services Representative
Gwen A Birchall at (717) 656-2300

Respectfully Submitted,

Michelle J. Smith

Michelle J. Smith
Group Leader



Lancaster Laboratories Sample No. SW 4775878

116TSS-01A/0-1' Composite Soil Sample
Gulf States Creosoting/Hattiesburg, MS

Collected: 05/18/2006 08:00 by BB

Account Number: 11947

Submitted: 05/19/2006 09:05
Reported: 06/13/2006 at 15:54
Discard: 08/13/2006

Tronox, LLC
P.O. Box 268859
Oklahoma City OK 73126-8859

1601A SDG#: HMS06-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Limit of Quantitation	Units	Dilution Factor
00111	Moisture	n.a.	9.4	0.50	‡	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis. Email results to dupthegrove@ix.netcom.com						
00941	PAH's in Solids by HPLC					
00942	Naphthalene	91-20-3	N.D.	370.	ug/kg	1
00951	Acenaphthylene	208-96-8	N.D.	290.	ug/kg	1
00953	Acenaphthene	83-32-9	N.D.	290.	ug/kg	1
00974	Fluorene	86-73-7	13. J	29.	ug/kg	1
01007	Phenanthrene	85-01-8	49.	15.	ug/kg	1
01008	Anthracene	120-12-7	13.	5.9	ug/kg	1
01010	Fluoranthene	206-44-0	87.	5.9	ug/kg	1
01012	Pyrene	129-00-0	160.	29.	ug/kg	1
01014	Benzo(a)anthracene	56-55-3	37.	7.4	ug/kg	1
01016	Chrysene	218-01-9	64.	15.	ug/kg	1
01017	Benzo(b)fluoranthene	205-99-2	58.	15.	ug/kg	1
01018	Benzo(k)fluoranthene	207-08-9	30.	7.4	ug/kg	1
01019	Benzo(a)pyrene	50-32-8	66.	15.	ug/kg	1
01022	Dibenz(a,h)anthracene	53-70-3	N.D.	5.9	ug/kg	1
01025	Indeno(1,2,3-cd)pyrene	193-39-5	53.	15.	ug/kg	1
01026	Benzo(g,h,i)perylene	191-24-2	130.	15.	ug/kg	1

The Sample Quantitation Limit (SQL) is equal to the Limit of Quantitation (LOQ).

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
00111	Moisture	EPA 160.3 modified	1	06/06/2006 16:42	Scott W Freisher	1
00941	PAH's in Solids by HPLC	SW-846 8310	1	06/12/2006 21:09	Mark A Clark	1
03338	PAH Solid Extraction	SW-846 3550B	1	05/26/2006 15:00	Melida Reyes	1

Lancaster Laboratories, Inc
2425 New Holland Pike
PO Box 12425
Lancaster, PA 17605-2425
717-656-2300 Fax 717-656-7681



Lancaster Laboratories Sample No. SW 4775879

116TSS-02A/0-1' Composite Soil Sample
Gulf States Creosoting/Hattiesburg, MS

Collected: 05/18/2006 09:15 by BB

Account Number: 11947

Submitted: 05/19/2006 09:05
Reported: 06/13/2006 at 15:54
Discard: 08/13/2006

Tronox, LLC
P.O. Box 268859
Oklahoma City OK 73126-8859

1602A SDG#: HMS06-02

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Limit of Quantitation	Units	Dilution Factor
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The Sample Quantitation Limit (SQL) is equal to the Limit of Quantitation (LOQ).

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
03338	PAH Solid Extraction	SW-846 3550B	1	05/26/2006 15:00	Melida Reyes	1



Lancaster Laboratories Sample No. SW 4775880

116TSS-03A/0-1' Composite Soil Sample
Gulf States Creosoting/Hattiesburg, MS

Collected: 05/18/2006 08:15 by BB

Account Number: 11947

Submitted: 05/19/2006 09:05
Reported: 06/13/2006 at 15:54
Discard: 08/13/2006

Tronox, LLC
P.O. Box 268859
Oklahoma City OK 73126-8859

1603A SDG#: HMS06-03

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Limit of Quantitation	Units	Dilution Factor
---------	---------------	------------	--------------------	-----------------------------------	-------	-----------------

The Sample Quantitation Limit (SQL) is equal to the Limit of Quantitation (LOQ).

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
03338	PAH Solid Extraction	SW-846 3550B	1	05/26/2006 15:00	Melida Reyes	1



Lancaster Laboratories Sample No. SW 4775881

116TSS-04A/0-1' Composite Soil Sample
Gulf States Creosoting/Hattiesburg, MS

Collected: 05/18/2006 09:30 by BB

Account Number: 11947

Submitted: 05/19/2006 09:05
Reported: 06/13/2006 at 15:54
Discard: 08/13/2006

Tronox, LLC
P.O. Box 268859
Oklahoma City OK 73126-8859

1604A SDG#: HMS06-04

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Limit of Quantitation	Units	Dilution Factor
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The Sample Quantitation Limit (SQL) is equal to the Limit of Quantitation (LOQ).

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
03338	PAH Solid Extraction	SW-846 3550B	1	05/26/2006 15:00	Melida Reyes	1



Lancaster Laboratories Sample No. SW 4775882

116TSS-05A/0-1' Composite Soil Sample
Gulf States Creosoting/Hattiesburg, MS

Collected: 05/18/2006 08:30 by BB

Account Number: 11947

Submitted: 05/19/2006 09:05
Reported: 06/13/2006 at 15:54
Discard: 08/13/2006

Tronox, LLC
P.O. Box 268859
Oklahoma City OK 73126-8859

1605A SDG#: HMS06-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Limit of Quantitation	Units	Dilution Factor
00111	Moisture	n.a.	16.5	0.50	%	1
Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						
00941	PAH's in Solids by HPLC					
00942	Naphthalene	91-20-3	N.D.	20,000.	ug/kg	50
00951	Acenaphthylene	208-96-8	N.D.	16,000.	ug/kg	50
00953	Acenaphthene	83-32-9	N.D.	16,000.	ug/kg	50
00974	Fluorene	86-73-7	250.	1,600.	ug/kg	50
01007	Phenanthrene	85-01-8	340.	800.	ug/kg	50
01008	Anthracene	120-12-7	120.	320.	ug/kg	50
01010	Fluoranthene	206-44-0	2,700.	320.	ug/kg	50
01012	Pyrene	129-00-0	5,900.	1,600.	ug/kg	50
01014	Benzo(a)anthracene	56-55-3	2,300.	400.	ug/kg	50
01016	Chrysene	218-01-9	2,800.	800.	ug/kg	50
01017	Benzo(b)fluoranthene	205-99-2	8,500.	4,000.	ug/kg	250
01018	Benzo(k)fluoranthene	207-08-9	3,900.	400.	ug/kg	50
01019	Benzo(a)pyrene	50-32-8	6,600.	800.	ug/kg	50
01022	Dibenz(a,h)anthracene	53-70-3	610.	320.	ug/kg	50
01025	Indeno(1,2,3-cd)pyrene	193-39-5	5,800.	800.	ug/kg	50
01036	Benzo(g,h,i)perylene	191-24-2	8,700.	800.	ug/kg	50

The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.
Due to the sample matrix an initial dilution was necessary to perform the analysis. Therefore, the reporting limits for the PAH by HPLC compounds were raised.

The Sample Quantitation Limit (SQL) is equal to the Limit of Quantitation (LOQ).

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
00111	Moisture	EPA 160.3 modified	1	06/06/2006 16:42	Scott W Freisher	1
00941	PAH's in Solids by HPLC	SW-846 8310	1	06/09/2006 16:54	Mark A Clark	50

Lancaster Laboratories, Inc
2425 New Holland Pike
PO Box 12425
Lancaster, PA 17605-2425
717 656-2300 Fax 717-656-2681



Lancaster Laboratories Sample No. SW 4775882

116TSS-05A/0-1' Composite Soil Sample
Gulf States Creosoting/Hattiesburg, MS

Collected: 05/18/2006 08:30 by BB

Account Number: 11947

Submitted: 05/19/2006 09:05
Reported: 06/13/2006 at 15:54
Discard: 08/13/2006

Tronox, LLC
P.O. Box 268859
Oklahoma City OK 73126-8859

1605A SDG#: HMS06-05

00941 PAH's in Solids by HPLC SW-846 8310
03338 PAH Solid Extraction SW-846 3550B

1 06/12/2006 23:52 Mark A Clark 250
1 05/26/2006 15:00 Melida Reyes 1



Lancaster Laboratories Sample No. SW 4775883

116TSS-06A/0-1' Composite Soil Sample
Gulf States Creosoting/Hattiesburg, MS

Collected: 05/18/2006 09:45 by BB

Account Number: 11947

Submitted: 05/19/2006 09:05

Tronox, LLC

Reported: 06/13/2006 at 15:54

P.O. Box 268859

Discard: 08/13/2006

Oklahoma City OK 73126-8859

1606A SDG#: HMS06-06

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Limit of Quantitation	Units	Dilution Factor
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The Sample Quantitation Limit (SQL) is equal to the Limit of Quantitation (LOQ).

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
03338	PAH Solid Extraction	SW-846 3550B	1	05/26/2006 15:00	Melida Reyes	1



Lancaster Laboratories Sample No. SW 4775884

116TSS-07A/0-1' Composite Soil Sample
Gulf States Creosoting/Hattiesburg, MS

Collected: 05/18/2006 08:45 by BB

Account Number: 11947

Submitted: 05/19/2006 09:05
Reported: 06/13/2006 at 15:54
Discard: 08/13/2006

Tronox, LLC
P.O. Box 268859
Oklahoma City OK 73126-8859

1607A SDG#: HMS06-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Limit of Quantitation	Units	Dilution Factor
00111	Moisture	n.a.	14.1	0.50	%	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						
00941	PAH's in Solids by HPLC					
00942	Naphthalene	91-20-3	N.D.	7,800.	ug/kg	20
00951	Acenaphthylene	208-96-8	N.D.	6,200.	ug/kg	20
00953	Acenaphthene	83-32-9	N.D.	6,200.	ug/kg	20
00974	Fluorene	86-73-7	N.D.	620.	ug/kg	20
01007	Phenanthrene	85-01-8	380.	310.	ug/kg	20
01008	Anthracene	120-12-7	120.	120.	ug/kg	20
01010	Fluoranthene	206-44-0	4,900.	120.	ug/kg	20
01012	Pyrene	129-00-0	4,500.	620.	ug/kg	20
01014	Benzo(a)anthracene	56-55-3	1,600.	160.	ug/kg	20
01016	Chrysene	218-01-9	1,500.	310.	ug/kg	20
01017	Benzo(b)fluoranthene	205-99-2	2,200.	310.	ug/kg	20
01018	Benzo(k)fluoranthene	207-08-9	1,100.	160.	ug/kg	20
01019	Benzo(a)pyrene	50-32-8	1,600.	310.	ug/kg	20
01022	Dibenz(a,h)anthracene	53-70-3	140.	120.	ug/kg	20
01025	Indeno(1,2,3-cd)pyrene	193-39-5	1,200.	310.	ug/kg	20
01026	Benzo(g,h,i)perylene	191-24-2	2,000.	310.	ug/kg	20

The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.
Due to the sample matrix an initial dilution was necessary to perform the analysis. Therefore, the reporting limits for the PAH by HPLC compounds were raised.

The Sample Quantitation Limit (SQL) is equal to the Limit of Quantitation (LOQ).

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
00111	Moisture	EPA 160.3 modified	1	06/06/2006 16:42	Scott W Freisher	1
00941	PAH's in Solids by HPLC	SW-846 8310	1	06/09/2006 19:40	Mark A Clark	20

Lancaster Laboratories, Inc.
2425 New Holland Pike
PO Box 12425
Lancaster, PA 17605-2425
717-656-2306 Fax 717-656-2681



Lancaster Laboratories Sample No. SW 4775884

116TSS-07A/0-1' Composite Soil Sample
Gulf States Creosoting/Hattiesburg, MS

Collected: 05/18/2006 08:45 by BB

Account Number: 11947

Submitted: 05/19/2006 09:05
Reported: 06/13/2006 at 15:54
Discard: 08/13/2006

Tronox, LLC
P.O. Box 268859
Oklahoma City OK 73126-8859

1607A	SDG#: HMS06-07						
03338	PAH Solid Extraction	SW-846 3550B	1	05/26/2006 15:00	Melida Reyes	1	



Lancaster Laboratories Sample No. SW 4775805

116TSS-08A/0-1' Composite Soil Sample
Gulf States Creosoting/Hattiesburg, MS

Collected: 05/18/2006 10:00 by BB

Account Number: 11947

Submitted: 05/19/2006 09:05
Reported: 06/13/2006 at 15:54
Discard: 08/13/2006

Tronox, LLC
P.O. Box 268859
Oklahoma City OK 73126-8859

1608A SDG#: HMS06-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Limit of Quantitation	Units	Dilution Factor
00111	Moisture	n.a.	11.3		0.50	%	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							
00941	PAH's in Solids by HPLC						
00942	Naphthalene	91-20-3	130.	J	380.	ug/kg	1
00951	Acenaphthylene	208-96-8	53.	J	300.	ug/kg	1
00953	Acenaphthene	83-32-9	N.D.		300.	ug/kg	1
00974	Fluorene	86-73-7	13.	J	30.	ug/kg	1
01007	Phenanthrene	85-01-8	64.		15.	ug/kg	1
01008	Anthracene	120-12-7	12.		6.0	ug/kg	1
01010	Fluoranthene	206-44-0	130.		6.0	ug/kg	1
01012	Pyrene	129-00-0	160.		30.	ug/kg	1
01014	Benzo(a)anthracene	56-55-3	61.		7.5	ug/kg	1
01016	Chrysene	218-01-9	78.		15.	ug/kg	1
01017	Benzo(b)fluoranthene	205-99-2	130.		75.	ug/kg	5
01018	Benzo(k)fluoranthene	207-08-9	63.		7.5	ug/kg	1
01019	Benzo(a)pyrene	50-32-8	99.		15.	ug/kg	1
01022	Dibenz(a,h)anthracene	53-70-3	9.4		6.0	ug/kg	1
01025	Indeno(1,2,3-cd)pyrene	193-39-5	95.		15.	ug/kg	1
01026	Benzo(g,h,i)perylene	191-24-2	150.		15.	ug/kg	1

The Sample Quantitation Limit (SQL) is equal to the Limit of Quantitation (LOQ).

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
00111	Moisture	EPA 160.3 modified	1	06/06/2006 16:42	Scott W Freisher	1
00941	PAH's in Solids by HPLC	SW-846 8310	1	06/12/2006 23:06	Mark A Clark	1
00941	PAH's in Solids by HPLC	SW-846 8310	1	06/13/2006 01:23	Mark A Clark	5
03338	PAH Solid Extraction	SW-846 3550B	1	05/26/2006 15:00	Melida Reyes	1



Lancaster Laboratories Sample No. SW 4775886

116TSS-09A/0-1' Composite Soil Sample
Gulf States Creosoting/Hattiesburg, MS

Collected: 05/18/2006 09:00 by BB

Account Number: 11947

Submitted: 05/19/2006 09:05
Reported: 06/13/2006 at 15:54
Discard: 08/13/2006

Tronox, LLC
P.O. Box 268859
Oklahoma City OK 73126-8859

1609A SDG#: HMS06-09*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Limit of Quantitation	Units	Dilution Factor
00111	Moisture	n.a.	12.5	0.50	%	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						
00941	PAH's in Solids by HPLC					
00942	Naphthalene	91-20-3	N.D.	30,000.	ug/kg	20
00951	Acenaphthylene	208-96-8	N.D.	24,000.	ug/kg	20
00953	Acenaphthene	83-32-9	N.D.	24,000.	ug/kg	20
00974	Fluorene	86-73-7	370.	2,400.	ug/kg	20
01007	Phenanthrene	85-01-8	680.	1,200.	ug/kg	20
01008	Anthracene	120-12-7	170.	490.	ug/kg	20
01010	Fluoranthene	206-44-0	3,600.	490.	ug/kg	20
01012	Pyrene	129-00-0	5,200.	2,400.	ug/kg	20
01014	Benzo(a)anthracene	56-55-3	2,200.	610.	ug/kg	20
01016	Chrysene	218-01-9	1,700.	1,200.	ug/kg	20
01017	Benzo(b)fluoranthene	205-99-2	5,900.	1,200.	ug/kg	20
01018	Benzo(k)fluoranthene	207-08-9	2,600.	610.	ug/kg	20
01019	Benzo(a)pyrene	50-32-8	5,000.	1,200.	ug/kg	20
01022	Dibenz(a,h)anthracene	53-70-3	490.	490.	ug/kg	20
01025	Indeno(1,2,3-cd)pyrene	193-39-5	5,500.	1,200.	ug/kg	20
01026	Benzo(g,h,i)perylene	191-24-2	8,700.	1,200.	ug/kg	20

The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.
Due to the sample matrix an initial dilution was necessary to perform the analysis. Therefore, the reporting limits for the PAH by HPLC compounds were raised.
The usual reporting limits could not be attained due to the matrix of the sample or interferences observed in the HPLC PAH analysis.

The Sample Quantitation Limit (SQL) is equal to the Limit of Quantitation (LOQ).

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle



Lancaster Laboratories Sample No. SW 4775886

116TSS-09A/0-1' Composite Soil Sample
Gulf States Creosoting/Hattiesburg, MS

Collected: 05/18/2006 09:00 by BB

Account Number: 11947

Submitted: 05/19/2006 09:05
Reported: 06/13/2006 at 15:54
Discard: 08/13/2006

Tronox, LLC
P.O. Box 268859
Oklahoma City OK 73126-8859

1609A SDG#: HMS06-09*

CAT

No.	Analysis Name	Method	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
00111	Moisture	EPA 160.3 modified	1	06/06/2006 16:42	Scott W Freisher	1
00941	PAH's in Solids by HPLC	SW-846 8310	1	06/13/2006 00:37	Mark A Clark	20
03338	PAH Solid Extraction	SW-846 3550B	1	05/26/2006 15:00	Melida Reyes	1



Quality Control Summary

Client Name: Tronox, LLC
 Reported: 06/13/06 at 03:54 PM

Group Number: 990273

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 06146SLD026	Sample number(s): 4775878, 4775882, 4775884-4775886							
Naphthalene	N.D.	330.	ug/kg	85		61-120		
Acenaphthylene	N.D.	270.	ug/kg	87		66-110		
Acenaphthene	N.D.	270.	ug/kg	95		77-100		
Fluorene	N.D.	27.	ug/kg	98		71-106		
Phenanthrene	N.D.	13.	ug/kg	100		73-112		
Anthracene	N.D.	5.3	ug/kg	97		68-117		
Fluoranthene	N.D.	5.3	ug/kg	99		73-107		
Pyrene	N.D.	27.	ug/kg	96		67-117		
Benzo(a)anthracene	N.D.	6.7	ug/kg	100		72-115		
Chrysene	N.D.	13.	ug/kg	96		71-108		
Benzo(b)fluoranthene	N.D.	13.	ug/kg	101		74-118		
Benzo(k)fluoranthene	N.D.	6.7	ug/kg	102		71-119		
Benzo(a)pyrene	N.D.	13.	ug/kg	100		77-111		
Dibenz(a,h)anthracene	N.D.	5.3	ug/kg	101		73-116		
Indeno(1,2,3-cd)pyrene	N.D.	13.	ug/kg	97		68-129		
Benzo(g,h,i)perylene	N.D.	13.	ug/kg	99		73-116		
Batch number: 06157820001A	Sample number(s): 4775878, 4775882, 4775884-4775886							
Moisture				100		99-101		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
 Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 06146SLD026	Sample number(s): 4775878, 4775882, 4775884-4775886 UNSPK: 4775878								
Naphthalene	86	85	61-104	1	50				
Acenaphthylene	87	85	63-109	2	50				
Acenaphthene	96	94	69-106	3	50				
Fluorene	98	96	74-111	2	50				
Phenanthrene	117	95	52-144	17	50				
Anthracene	100	84	63-123	15	50				
Fluoranthene	151	102	14-177	24	50				
Pyrene	104	96	61-120	7	50				
Benzo(a)anthracene	71	48	3-99	24	50				
Chrysene	104	93	58-129	9	50				
Benzo(b)fluoranthene	130	109	19-176	8	50				
Benzo(k)fluoranthene	123	104	26-146	10	50				
Benzo(a)pyrene	140	112	27-168	11	50				
Dibenz(a,h)anthracene	99	98	59-131	1	50				
Indeno(1,2,3-cd)pyrene	94	89	53-127	4	50				

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The background result was more than four times the spike added.

Lancaster Laboratories, Inc
 2425 New Holland Pike
 PO Box 12425
 Lancaster, PA 17605-2425
 717-656-2300 Fax 717-656-2681



Quality Control Summary

Client Name: Tronox, LLC
 Reported: 06/13/06 at 03:54 PM

Group Number: 990273

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
 Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Benzo(g,h,i)perylene	95	92	58-125	2	50				
Batch number: 06157820001A	Sample number(s): 4775878, 4775882, 4775884-4775886				BKG: P785415				
Moisture						35.5	37.2	5	15

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: PAH's in Solids by HPLC
 Batch number: 06146SLD026

	Nitrobenzene	Triphenylene
4775878	97	66
4775882	91	3014*
4775884	93	307*
4775885	96	143
4775886	102	1401*
Blank	93	134
LCS	96	136
MS	104	69
MSD	102	133
Limits:	59-121	44-168

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The background result was more than four times the spike added.

Analysis Request/ Environmental Services Chain of Custody



11738 ^{5/22/06} For Lancaster Laboratories use only
 Acct. # ~~1187~~ 417 Group # 490273 Sample # 4775578.8c

COC # 0123320

Please print. Instructions on reverse side correspond with circled numbers.

1 Client: <u>Michael Pizani</u> Acct. #: _____ Project Name#: <u>21-04</u> PWSID #: _____ Project Manager: <u>DAVE UP THE BROOK</u> Sampler: <u>BRAD BLACK (BMB)</u> Quote #: _____ Name of state where samples were collected: <u>MS</u>		2		3		4		5		6			
116 TSS - 01A/0-1' 05/18/06 0800 116 TSS - 02A/0-1' 0915 116 TSS - 03A/0-1' 0815 116 TSS - 04A/0-1' 0930 116 TSS - 05A/0-1' 0830 116 TSS - 06A/0-1' 0945 116 TSS - 07A/0-1' 0845 116 TSS - 08A/0-1' 1000 116 TSS - 09A/0-1' 0900		/ / / / / / / / / / / / / / / / / /		/ / / / / / / / / / / / / / / /		/ / / / / / / / / / / / / / / /		/ / / / / / / / / / / / / / / /		/ / / / / / / / / / / / / / / /		/ / / / / / / / / / / / / / / /	
						* PAH's by E310				* EXTRACT + HOLD FOR ANALYSIS			
7 Turnaround Time Requested (TAT) (please circle): <u>Normal</u> Rush (Rush TAT is subject to Lancaster Laboratories approval and surcharge.) Date results are needed: _____ Rush results requested by (please circle): Phone Fax E-mail Phone #: _____ Fax #: _____ E-mail address: _____		8 Data Package Options (please circle if required) SDG Complete? QC Summary Type VI (Raw Data) Yes No Type I (Tier I) GLP Site-specific QC required? Yes No Type II (Tier II) Other (If yes, indicate QC sample and submit triplicate volume.) Type III (NJ Red. Del.) Internal Chain of Custody required? Yes No Type IV (CLP)		Relinquished by: <u>Brad Black</u> Date: <u>05/18/06</u> Time: <u>1330</u> Relinquished by: _____ Date: _____ Time: _____ Relinquished by: _____ Date: _____ Time: _____ Relinquished by: _____ Date: _____ Time: _____ Relinquished by: _____ Date: _____ Time: _____		Relinquished by: _____ Date: _____ Time: _____ Relinquished by: _____ Date: _____ Time: _____ Relinquished by: _____ Date: _____ Time: _____ Relinquished by: _____ Date: _____ Time: _____		Relinquished by: _____ Date: _____ Time: _____ Relinquished by: _____ Date: _____ Time: _____ Relinquished by: _____ Date: _____ Time: _____ Relinquished by: _____ Date: _____ Time: _____		Relinquished by: _____ Date: _____ Time: _____ Relinquished by: _____ Date: _____ Time: _____ Relinquished by: _____ Date: _____ Time: _____ Relinquished by: _____ Date: _____ Time: _____		Relinquished by: _____ Date: _____ Time: _____ Relinquished by: _____ Date: _____ Time: _____ Relinquished by: _____ Date: _____ Time: _____ Relinquished by: _____ Date: _____ Time: _____	