

REGION 4
UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
SCIENCE AND ECOSYSTEM SUPPORT DIVISION

Site Investigation Report
Kerr-McGee Chemical (Columbus) Site
(Formerly Tronox Residential Soil Sampling Investigation)
Columbus, Mississippi
Project Identification Number: 11-0019
Final: February 4, 2011



On-Scene Coordinator:

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Superfund Division
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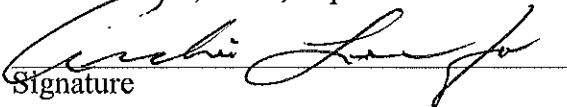
SESD Project Leader:

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Project: Kerr-McGee Chemical (Columbus) Site, Columbus, Mississippi
SESD Project Identification Number: 11-0019

Approving Official:

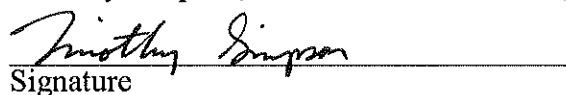
Mike Bowden, Chief, Superfund and Air Section


Signature

2/4/2011
Date

Project Leader:

Timothy Simpson, Environmental Scientist, Superfund and Air Section


Signature

02/04/2011
Date

Report Amendment Reference

This report revision replaces the January 31, 2011, Sampling Investigation Report for the Kerr-McGee Chemical (Columbus) Site in Columbus, Mississippi. Corrections were made to Figures 1 and 2 regarding the location of Station 12491.

SAMPLING INVESTIGATION REPORT
KERR-MCGEE CHEMICAL (COLUMBUS) SITE
COLUMBUS, MISSISSIPPI
SESD PROJECT IDENTIFICATION NUMBER 11-0019

Introduction

During the week of October 25, 2010 representatives of the United States Environmental Protection Agency (USEPA), Region 4, Science and Ecosystem Support Division (SESD), collected soil samples from residential and community properties adjacent to the Kerr-McGee Chemical (Columbus) Site in Columbus, Mississippi. The project was initially called the Tronox Residential Soil Investigation. The investigation was requested by Steve Spurlin, On-Scene Coordinator, Superfund Division, EPA Region 4, Atlanta, Georgia.

The following personnel participated in the investigation:

<u>Name</u>	<u>Organization</u>	<u>Duties</u>
Tim Simpson	Reg. 4 EPA/SESD	Project Leader, Sampler
Don Hunter	Reg. 4 EPA/SESD	Sampler, Safety Officer
Beth Oswald	Reg. 4 EPA/SESD	Sampler
Marty Allen	Reg. 4 EPA/SESD	Sampler
Kevin Matherne	Tetra Tech EM, Inc.	Sampler
Nick Heuman	ILS	Sampler, Sample Processing

Site Background

The objective of the SESD sampling investigation was to provide supporting data to aid EPA Region 4 in determining if soil in the surrounding neighborhoods had been impacted by operations at the former Kerr-McGee facility that was located at 2300 14th Avenue North. Kerr-McGee operated a wood preserving facility to pressure treat lumber products using creosote and pentachlorophenol as preservatives.

The sampling results have been reviewed by an EPA Region 4 human health risk assessor. Detected chemical constituents were compared to the applicable Regional Screening Levels (RSL). RSLs are conservative, long-term risk-based screening values developed by EPA to help identify contaminants of potential concern. Constituents reported at levels above their respective RSLs for residential surface soil were then compared against the Removal Action Level (RAL). RALs are risk-based screening values developed by EPA to determine whether sample concentrations are sufficiently elevated that they may warrant a removal action. Exceedance of an RAL by itself does not imply that adverse health effects will occur.

SESD previously collected surface soil and sediment samples for semivolatile organic compounds (SVOCs) and dioxin analyses from residential properties and ditches adjacent to the site in April 2010. The April sampling investigation was conducted by the EPA Region 4 RCRA program. It was conducted prior to the EPA Superfund program taking

the lead for the investigation of the Site due to the Tronox bankruptcy. Eight samples collected in April 2010 exceeded the RSLs for at least one Polycyclic Aromatic Hydrocarbon (PAH).

Sampling Investigation Summary

SESD collected 49 soil samples from 39 properties. Samples were collected from residential and public properties (churches, cemetery, school) adjacent to the Kerr-McGee site. Forty-six surface soil composite samples were collected from 43 sampling stations. (Note: several properties had multiple sample stations). The surface soil samples were collected from a depth of 0-3 inches. The sampling locations appear in Figures 1-4.

Subsurface soil samples were collected from three residential properties at a depth of 12-15 inches to monitor if subsurface soil had been impacted by site activities. It should be noted that Station TN09 was a subsurface sample collected at the sample property as Station 12624. Station TN09 was a location previously sampled (surface soil only) by the RCRA program. The same RCRA sample station ID was used for the collection of the subsurface soil sample at that location.

Due to the variation in size of the properties, the samplers used an authoritative design to determine sample aliquot numbers and locations. The goal was to yield a sample representative of the potential contamination of each property. Generally, the samples consisted of five aliquots; however, at times, the number and locations of the soil aliquots were adjusted because investigators avoided collecting samples from areas that could be potentially impacted from residential activities. Areas where cars were parked, trash burned, or chemicals stored were not sampled. Samples were analyzed by a contract laboratory for SVOCs and dioxin.

Sampling and Analytical Methodology

Sample collection activities were in accordance with the *Quality Assurance Project Plan, Tronox Residential Sampling Investigation, October 22, 2010* and EPA, Region 4 SEDS Field Branches *Quality System and Technical Procedures*. The field investigation was conducted in accordance with the following procedures:

- SESDPROC-005-R1, Sample and Evidence Management
- SESDPROC-010-R3, Logbooks
- SESDPROC-110-R2, Global Positioning System
- SESDPROC-209-R1, Packing, Marking, Labeling, and Shipping of Environmental and Waste Samples
- SESDPROC-202-R1, Management of Investigation Derived Waste
- SESDPROC-300-R1, Soil Sampling

All samples were analyzed by a contract laboratory in accordance to the most recent Contract Laboratory Statement of Work. The analytical methods are listed on the Final Analytical Report data sheets in Appendix B.

Analytical Results:

SVOCs

SVOC analytical data are summarized in Table 2. The Final Analytical Report, with all data qualifiers, is in Appendix B.

SVOC data were compared to the RSLs for residential soil. Any data exceeding the RSL were compared to the Removal Action Level. Forty-one samples from 33 properties exceeded an RSL for at least one PAH. There were no RSL exceedances at surface soil Stations 12490, 12491, 12520, 12522, 13889, and 13894. Additionally, at Station 13775, The RSLs for benzo(a)pyrene and dibenzo(a,h)anthracene were exceeded in the subsurface soil sample; however, no RSLs were exceeded in the surface soil sample.

Benzo(a)anthracene exceeded the 150 ug/kg RSL in 13 samples ranging from 200 ug/kg to 6,300 ug/kg. The Removal Action Level for benzo(a)anthracene was not exceeded.

Benzo(a)pyrene exceeded the 15 ug/kg RSL in 41 samples ranging from 23 ug/kg to 4,800 ug/kg. The 1,500 ug/kg Removal Action Level for benzo(a)pyrene was exceeded at Station 12462B (4,800 ug/kg detected). Three additional samples, including one split sample) were collected adjacent to Station 12462B. Samples collected at Station 12462A (69 ug/kg) and Station 12462C (77 ug/kg, 87 ug/kg) were below the benzo(a)pyrene Removal Action Limit.

Benzo(b)fluoranthene was above the 150 ug/kg RSL in 29 samples ranging from 160 ug/kg to 11,000 ug/kg. The Removal Action Level for benzo(b)fluoranthene was not exceeded.

Benzo(k)fluoranthene exceeded the 1,500 ug/kg RSL only at Station 12462B (7,200 ug/kg detected). The Removal Action Level for benzo(k)fluoranthene was not exceeded.

Dibenzo(a,h)anthracene exceeded the 15 ug/kg RSL in 33 samples ranging from 16 ug/kg to 690 ug/kg. The Removal Action Level for dibenzo(a,h)anthracene was not exceeded.

Indeno (1,2,3-cd) pyrene exceeded the 150 ug/kg RSL in 18 samples ranging from 160 ug/kg to 2,100 ug/kg. The Removal Action Level for indeno (1,2,3-cd) pyrene was not exceeded.

Dioxin

The Final Analytical Report for dioxin, with all data qualifiers, is in Appendix B. The Mammalian Toxic Equivalency Quotients (TEQ) values were compared to the Office of Solid Waste and Emergency Response (OSWER) dioxin action level (1,000 ng/kg). The TEQ data are summarized in Table 3. No Mammalian TEQs exceeded the OSWER action level for dioxin. The highest Mammalian TEQ reported was 140 ng/kg at Station 12623.

It should be noted that most of the data for 2,3,7,8-Tetrachlorodibenzo-p-dioxin (2,3,7,8-TCDD) were reported at non-detected and rejected. However, 2,3,7,8- TCDD was detected in two surface soil samples. 2,3,7,8-TCDD was detected with estimated values

at Station 12522 (0.75J ng/kg) and Station 13753 (3.7J ng/kg). According to the Final Analytical Report, the presence or absence of 2,3,7,8-TCDD cannot be determined from the non-detected data due to quality control problems. The complete memorandum on the technical evaluation of the dioxin data is in Appendix A.

The ESAT (EPA contractor) data validator, following the appropriate standard operating procedures, qualified the 2,3,7,8-TCDD congener as unusable for non-detected results in the associated samples. The non-detected results could not be confirmed and were deemed unusable due to the performance evaluation (PE) sample results being reported as “Action Low” based on the scoring procedure used EPA wide for all PE samples.

The TEQs were calculated from all of the 2,3,7,8-substituted congeners. Based on each congeners’ contribution to the overall TEQ result for a specific sample, the qualifier associated with that 2,3,7,8-substituted congener may follow through the TEQ result unless it had a less than 10% contribution of the calculated TEQ. For the samples associated with the project, although the 2,3,7,8-TCDD congener result was rejected at the reporting limit, it contributed less than 10% of the calculated TEQ, therefore the rejected qualifier did not carry over to the TEQ reported value.

Quality Assurance Results

Split samples were collected at stations 12462C, 12490, 13758. The analytical results for the split samples compares well with the results reported for the primary sample which is an indication of good sample mixing.

References

Quality Assurance Project Plan, Tronox Residential Soil Sampling Investigation, October 22, 2010. SESD Project Number 11-0019.

Region 4 EPA *Field Branches Quality System and Technical Procedures*.

<http://www.epa.gov/region4/sesd/fbqstp/index.html>

EPA Regional Screening Level Summary Table, November 2010.

Office of Solid Waste and Emergency Response, *Approach for Addressing Dioxin in Soil at CERCLA and RCRA Sites*, April 13, 1998

Region 4 SESD, *Tronox Rejected Data for 2,3,7,8-TCDD Technical Evaluation of Laboratory Submittals*, Project 11-0019, January 21, 2011

DATA TABLES
KERR-MCGEE CHEMICAL (COLUMBUS) SITE
(FORMERLY TRONOX RESIDENTIAL SOIL SAMPLING INVESTIGATION)
COLUMBUS, MS
WEEK OF OCTOBER 25, 2010

TABLE 1
SAMPLE LOCATIONS
KERR-MCGEE CHEMICAL (COLUMBUS) SITE
COLUMBUS, MS

Station ID	Sample ID	Latitude	Longitude
12131	12131ASF	33.51091	-88.40782
12484	12484ASF	33.51178	-88.40417
12486	12486ASF	33.51151	-88.40437
12490	12490ASF	33.51139	-88.40493
12490	12490ASFX	33.51139	-88.40493
12491	12491ASF	33.51171	-88.40553
12520	12520ASF	33.51208	-88.40524
12522	12522ASF	33.51163	-88.40515
12462A	12462ASF	33.50815	-88.41039
12462B	12462BSF	33.50802	-88.41032
12462C	12462CSF	33.50781	-88.41024
12462C	12462CSFX	33.50781	-88.41024
12470	12470ASF	33.50840	-88.40710
12323	12323ASF	33.50994	-88.41043
12324	12324ASF	33.50982	-88.41041
12621	12621ASF	33.50873	-88.40215
12622	12622ASF	33.50856	-88.40237
12623	12623ASF	33.50852	-88.40234
TN09	12624ASB12	33.50828	-88.40250
12624	12624BSF	33.50806	-88.40276
12629	12629ASF	33.50760	-88.40255
12630	12630ASF	33.50784	-88.40242
12633	12633ASF	33.50808	-88.40207
12634	12634ASF	33.50832	-88.40197
13767	13767ASF	33.50488	-88.40216
13774	13774ASF	33.50365	-88.40234
13775	13775ASF	33.50362	-88.40215
13775	13775ASB12	33.50362	-88.40215
13900	13900ASF	33.50352	-88.40128
13890	13890ASF	33.50336	-88.39928

TABLE 1 (Continued)
SAMPLE LOCATIONS
KERR-MCGEE CHEMICAL (COLUMBUS) SITE
COLUMBUS, MS

Station ID	Sample ID	Latitude	Longitude
13889	13889ASF	33.50323	-88.39915
13785	13785ASF	33.50380	-88.39977
13894	13894ASF	33.50325	-88.40015
13746	13746ASF	33.50471	-88.40386
13750	13750ASF	33.50414	-88.40434
13753	13753ASF	33.50368	-88.40457
13755	13755ASF	33.50380	-88.40377
13756	13756ASF	33.50399	-88.40382
13758	13758ASF	33.50416	-88.40369
13758	13758ASFX	33.50416	-88.40369
13759	13759ASF	33.50414	-88.40325
13761	13761ASF	33.50444	-88.40304
13762	13762ASF	33.50471	-88.40371
13766	13766ASF	33.50556	-88.40240
13723	13723ASF	33.50613	-88.40284
13743	13743ASF	33.50579	-88.40260
13744A	13744ASF	33.50574	-88.40306
13744B	13744BSF	35.50603	-88.40305
13744B	13744BSB12	35.50603	-88.40305

TABLE 2
ANALYTICAL DATA: SVOCS
KERR-MCGEE CHEMICAL (COLUMBUS) SITE
COLUMBUS, MS

Analyte Units RSL RES SOIL RAL		Benzo(a)anthracene ug/kg dry 150 15,000	Benzo(a)pyrene ug/kg dry 15 1,500	Benzo(b)fluoranthene ug/kg dry 150 15,000	Benzo(k)fluoranthene ug/kg dry 1,500 150,000	Dibenzo(a,h)anthracene ug/kg dry 15 1,500	Indeno (1,2,3-cd) pyrene ug/kg dry 150 15,000
Station ID	Sample ID						
12131	12131ASF	68	200 J,QI-1	390 J,QI-1	210 J,QI-1	24 J,QI-1	140 J,QI-1
12323	12323ASF	45	70	160 J,QC-2	58	20	61
12324	12324ASF	78	130	280	140	U	100
12462A	12462ASF	36	69	140	75	20	49
12462B	12462BSF	6,300	4,800	11,000	7,200	690	2,100
12462C	12462CSF	73	77	160	85	19	51
12462C	12462CSFX	94	87	140	74	24	56
12470	12470ASF	1,500	1,200	2,400	1,100	280	880
12484	12484ASF	15	250	480	250	170 J,QI-1	190 J,CLP-01
12486	12486ASF	250	310	710	250	92	270
12490	12490ASF	6.7	9.2	27	11 J,QC-2	4.4	12
12490	12490ASFX	8.1	10	26	18 J,QC-2	U	12
12491	12491ASF	5.0	4.0	17	11 J,QC-2	U	7.4
12520	12520ASF	7.8	11	30	13 J,QC-2	4.3	13
12522	12522ASF	6.8	14	35	16 J,QC-2	5.3	16
12621	12621ASF	66	100	190	83 J,QC-2	16	70
12622	12622ASF	48	64	130	68	14	49
12623	12623ASF	96	160	340	200	46	170
12624	12624BSF	14	25	57	36	20	28
12629	12629ASF	140	260	210	310 J,QC-2	67	210
12630	12630ASF	12	35 J,QI-1	47	27	11 J,QI-1	35 J,QI-1
12633	12633ASF	18	23	32	19	11	17

*Bold indicates value is above the RSL for residential soil. Bold and shaded indicates value is above RAL.

U - The analyte was not detected at or above the reporting limit. J - The identification of the analyte is acceptable; the reported value is an estimate. QI-1 – Matrix Spike Recovery was outside of method control limits, QC-2Analyte concentration high in continuing calibration verifications standard, CLP-01 – Concentration reported is less than the lowest standard on calibration curve

TABLE 2 (CONTINUED)
ANALYTICAL DATA: SVOCS
KERR-MCGEE CHEMICAL (COLUMBUS) SITE
COLUMBUS, MS

Analyte Units RSL RES SOIL RAL		Benzo(a)anthracene ug/kg dry 150 15,000	Benzo(a)pyrene ug/kg dry 15 1,500	Benzo(b)fluoranthene ug/kg dry 150 15,000	Benzo(k)fluoranthene ug/kg dry 1,500 150,000	Dibenzo(a,h)anthracene ug/kg dry 15 1,500	Indeno (1,2,3-cd) pyrene ug/kg dry 150 15,000
Station ID	Sample ID						
12634	12634ASF	53	110	200	130 J,QC-2	21	86
13723	13723ASF	140	280	420	260	76	240
13743	13743ASF	86	120	220	100	26	78
13744A	13744ASF	120	250	420	220	62	200
13744B	13744BSB12	76	130	200	120	31	100
13744B	13744BSF	200	250	580	260 J,QC-2	92	180
13746	13746ASF	57	110	170	86	18	78
13750	13750ASF	66	91	130	91 J,QC-2	19	67
13753	13753ASF	32	68	110	74 J,QC-2	14	50
13755	13755ASF	250	120 J,CLP-01	160 J,CLP-01, QC-2	120 J,CLP-01	110	320
13756	13756ASF	240	290	380	380	150	160 J,O
13758	13758ASF	220	370	200 J,CLP-01	380 J,QC-2	83	250
13758	13758ASFX	230	360	210 J,CLP-01	250	87	250
13759	13759ASF	200	220	270	280	85	230
13761	13761ASF	290	420	380	630	200	250
13762	13762ASF	1,000 J,QS-5	990	1,600 J,AC-2	930	200 J,CLP-01	590
13766	13766ASF	63	110	160	81	23	78
13767	13767ASF	200	200	210	380	100	340
13774	13774ASF	15	21	33	20 J,QC-2	5.5	17
13775	13775ASB12	31	88	120	95 J,QC-2	17	60
13775	13775ASF	5.7	8.3	16	8.4 J,QC-2	U	7.2
13785	13785ASF	34	95	160	120 J,QC-2	20	72
13889	13889ASF	4.1	U	11	7.1 J,QC-2	U	4.2
13890	13890ASF	19	25	68	33 J,QC-2	7.2	22
13894	13894ASF	8.3	11	19	14 J,QC-2	U	10
13900	13900ASF	230	360	U	400 J,CLP-02,QC-2	88	250
TN09	12624ASB12	52	100	280	120	45 J,CLP-01	95

*Bold indicates value is above the RSL for residential soil. Bold and shaded indicates value is above RAL.

U - The analyte was not detected at or above the reporting limit. J - The identification of the analyte is acceptable; the reported value is an estimate, QI-1 – Matrix Spike Recovery was outside of method control limits, QC-2Analyte concentration high in continuing calibration verifications standard, CLP-01 – Concentration reported is less than the lowest standard on calibration curve

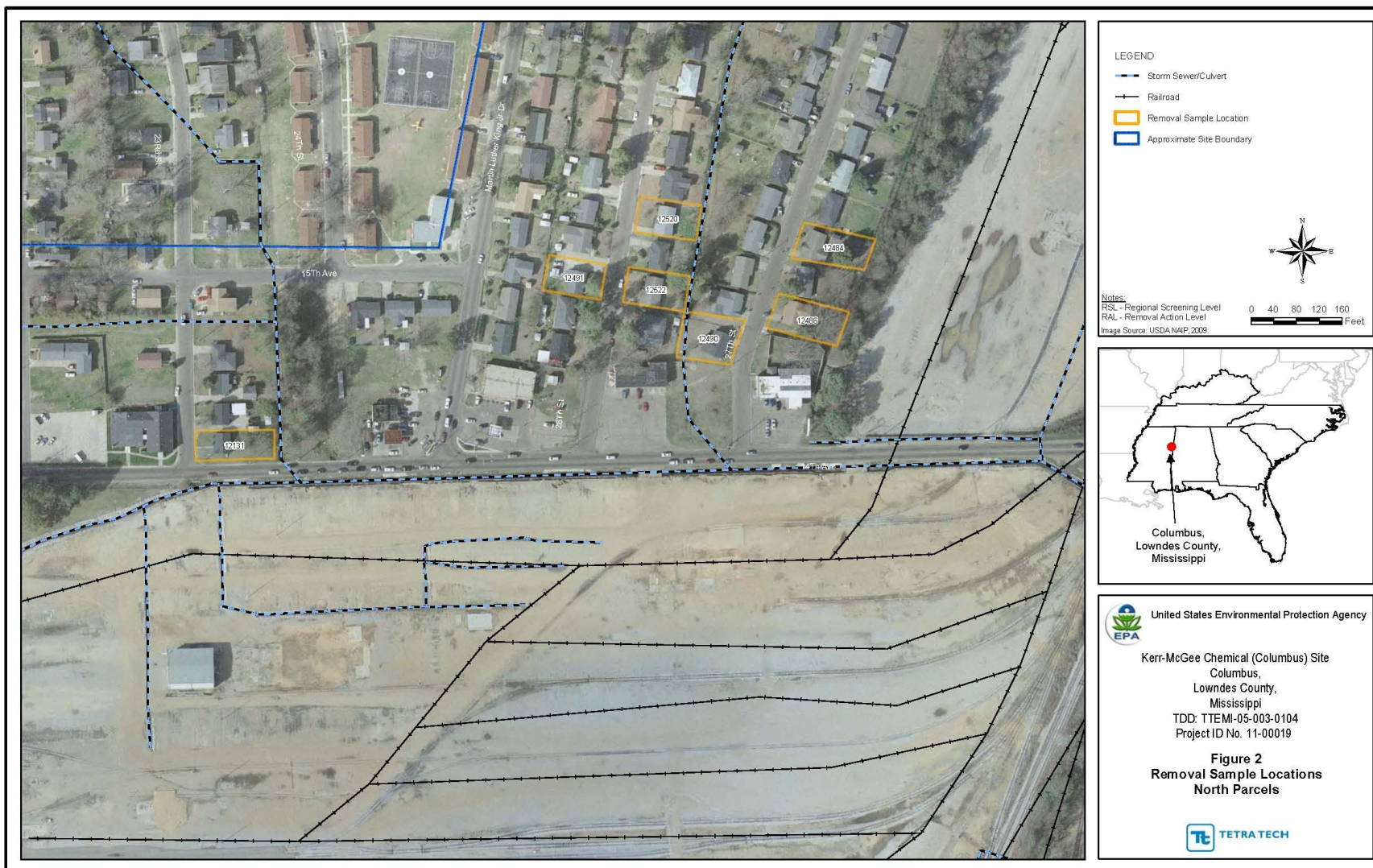
TABLE 3
ANALYTICAL DATA: DIOXIN TEQ
KERR-MCGEE CHEMICAL (COLUMBUS) SITE
COLUMBUS, MS

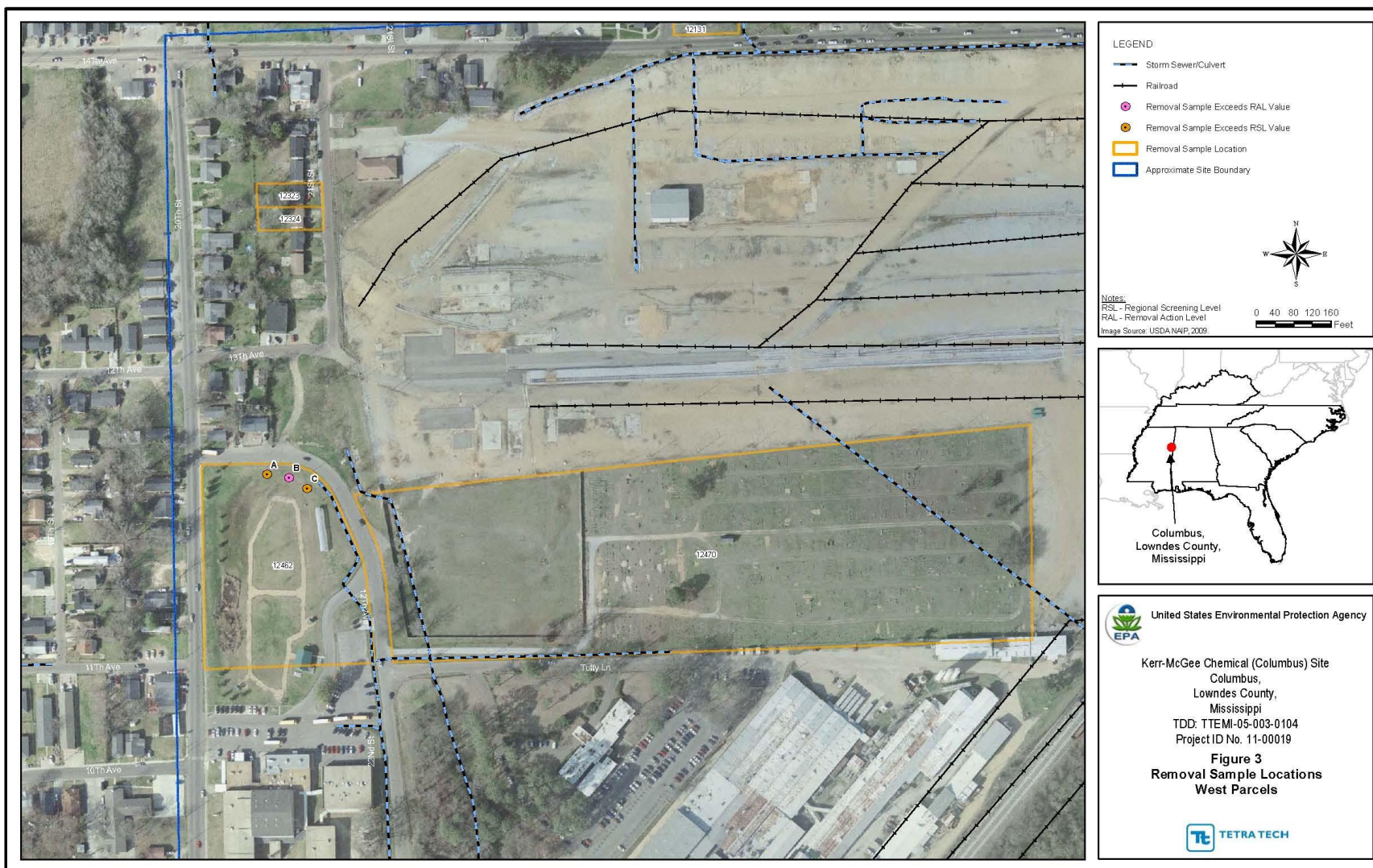
Units OSWER Action Level		Mammalian TEQ ng/kg 1000		Units OSWER Action Level		Mammalian TEQ ng/kg 1000
Station ID	Sample ID			Station ID	Sample ID	
12131	12131ASF	18 J,D-5		13744A	13744ASF	61
12323	12323ASF	29J,D-5		13744B	13744BSB12	59J,D-5
12324	12324ASF	50J,D-5		13744B	13744BSF	110J,D-5
12462A	12462ASF	57		13746	13746ASF	50J,D-5
12462B	12462BSF	88		13750	13750ASF	19J,D-5
12462C	12462CSF	23J,D-5		13753	13753ASF	29J,D-5
12462C	12462CSFX	22J,D-5		13755	13755ASF	20J,D-5
12470	12470ASF	110J,D-5		13756	13756ASF	30J,D-5
12484	12484ASF	18J,D-5		13758	13758ASF	38J,D-5
12486	12486ASF	51J,D-5		13758	13758ASFX	38J,D-5
12490	12490ASF	7.3J,D-5		13759	13759ASF	26J,D-5
12490	12490ASFX	8.0J,D-5		13761	13761ASF	65
12491	12491ASF	11J,D-5		13762	13762ASF	24J,D-5
12520	12520ASF	12J,D-5		13766	13766ASF	13J,D-5
12522	12522ASF	11J,D-5		13767	13767ASF	22J,D-5
12621	12621ASF	11J,D-5		13774	13774ASF	4.2J,D-5
12622	12622ASF	11J,D-5		13775	13775ASB12	4.8J,D-5
12623	12623ASF	140		13775	13775ASF	4.0J,D-5
12624	12624BSF	7.2J,D-5		13785	13785ASF	16J,D-5
12629	12629ASF	79J,D-5		13889	13889ASF	2.8J,D-5
12630	12630ASF	4.9J,D-5		13890	13890ASF	9.1J,D-5
12633	12633ASF	4.9J,D-5		13894	13894ASF	3.8J,D-5
12634	12634ASF	13J,D-5		13900	13900ASF	20J,D-5
13723	13723ASF	91D-5		TN09	12624ASB12	97J,D-5
13743	13743ASF	13J,D-5				

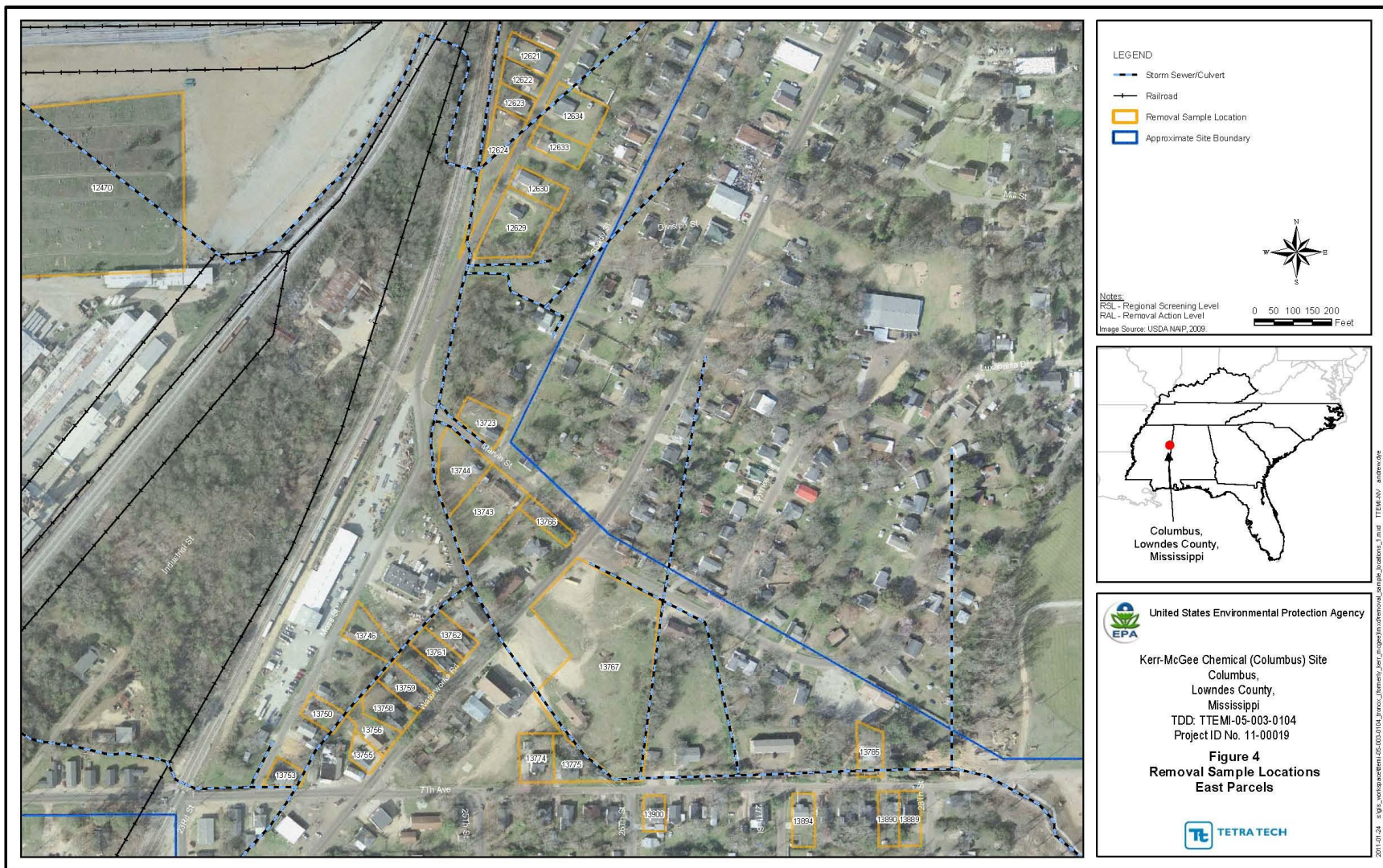
J- The identification of the analyte is acceptable; the reported value is an estimate.

D-5 – Estimated quantitation for one or more individual constituents comprising >10% of the total

SITE FIGURES
KERR-MCGEE CHEMICAL (COLUMBUS) SITE
(FORMERLY TRONOX RESIDENTIAL SOIL SAMPLING INVESTIGATION)
COLUMBUS, MS
WEEK OF OCTOBER 25, 2010







**APPENDIX A
MEMORANDUM
TECHNICAL EVALUATION OF LABORATORY SUBMITTALS
KERR-MCGEE CHEMICAL (COLUMBUS) SITE
(FORMERLY TRONOX RESIDENTIAL SOIL SAMPLING INVESTIGATION)
SESD PROJECT IDENTIFICATION NUMBER 11-0019
WEEK OF OCTOBER 25, 2010**



**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 4**

Science and Ecosystem Support Division
980 College Station Road
Athens, Georgia 30605-2720

January 21, 2011

4SESD-MTSB

MEMORANDUM

SUBJECT: Tronox Rejected Data for 2,3,7,8-TCDD Technical Evaluation of Laboratory Submittals, Project 11-0019

FROM: Jeffrey R. Hendel, Chemist
Quality Assurance Section

THRU: Danny France, Chief
Materials and Technical Services Branch

TO: Nardina Turner, Chemist
Superfund Division

On January 5, 2011, SESD released the dioxin and furan analytical results for the Tronox site. Following the appropriate standard operating procedures, the ESAT data validator qualified the 2,3,7,8-Tetrachlorodibenzo-p-dioxin (2,3,7,8-TCDD) congener as unusable (R qualifier) for non-detected results in the associated samples. The non-detected results were deemed unusable due to the performance evaluation (PE) sample results being reported as "Action Low" based on the scoring procedure used EPA wide for all PE samples.

In an email from Ms. Nardina Turner to Mr. Jeffrey Hendel, there was a request from the Superfund Division to check the validity of the rejected data. As a result of the inquiry, a conference call was conducted between Superfund and SESD for discussing why the data was rejected, what evaluations could be performed for determining the validity of the rejected data, and for developing a plan moving forward. Immediately before the conference call commenced, the testing laboratory (SGS) that analyzed the samples provided an email stating that they incorrectly integrated the 2,3,7,8-TCDD peak and requested a chance to make a correction and to resubmit a revised concentration of the 2,3,7,8-TCDD congener for PE scoring. Based on the meeting, it was agreed that the

analytical laboratory would be permitted to reissue a revised chromatogram showing the integration of the 2,3,7,8-TCDD peak prior to and following the reintegration of the PE sample. SESD is in receipt of the chromatograms and the following discussion is taken from ESAT's review. The additional information consists of a new Analytical Data Summary Sheet and Selected Ion Current Profiles (i.e, chromatograms) for 2,3,7,8-TCDD in conjunction with the original submission.

The problem for the low reported value for the 2,3,7,8-TCDD in the PE sample revolves around the way the laboratory manually integrated the peak and poor chromatography. The original peak integration appears more consistent for both ions. The laboratory manually integrated the peak for both ions by dropping an integration line from the point of deflection down to a normal baseline. If there were in fact two coeluting peaks, this procedure would most likely follow the way two peaks would be integrated for determining area for calculating concentration.

In the reintegrated peak performed on January 20, 2011, it appears that the laboratory drew an integration line from the point of deflection diagonally to the baseline for the 319.8965 ion and retained the original baseline integration for the 321.8936 ion which encompassed the entire peak. Normally, this would be an unacceptable integration of a peak. The attached chromatograms depict the original integration and reintegration of the peaks discussed in this memorandum.

Also during the conference call, there was a concern about calculating the Toxic Equivalent Quotients (TEQs) from an unusable (R qualified) value. The TEQs are calculated from all of the 2,3,7,8-substituted congeners. Based on each congeners' contribution to the overall TEQ result for a specific sample, the qualifier associated with that 2,3,7,8-substituted congener may follow through the TEQ result unless it had a less than 10% contribution of the calculated TEQ. For the samples associated with the Tronox project, although the 2,3,7,8-TCDD result was rejected at the reporting limit, it contributed to less than 10% of the calculated TEQ, therefore, the rejected qualifier did not carry over to the TEQ reported value. In the reported samples, the Octachlorodibenzo-p-dioxin (OCDD) and Octachlordibenzofuran (OCDF) results were greater than the upper range of the initial calibration and as a result were qualified as estimated value (J). Since OCDD and OCDF contributed to greater than 10% of the reported TEQ and was qualified as "J" due to their reported concentration, the TEQ result was also qualified as "J" (estimated value).

Conclusion and Recommendation

Based on the review of the chromatograms that were supplied by the laboratory, the deflection point, which was more prominent for the 319.8965 ion, may be a result of interference from a coeluting compound, or could be the result of a loss or reduction of signal intensity during the analysis. From the information provided by the laboratory, there is no way to tell the cause, however, the PE sample should not contain contaminants unless that laboratory contaminated the PE sample during preparation.

Following technical discussions with the ESAT chemists and reviewing the information provided by the laboratory, the original “R” qualification for 2,3,7,8-TCDD based on action low PE scoring remains appropriate. There does not appear to be sufficient evidence to better integrate the peak for achieving a result which would be closer to the true value of the PE sample. There is also no way to satisfactorily reintegrate the peak and defending the reintegration. Therefore, it is recommended that the laboratory perform a reanalysis of the PE sample and the corresponding field samples for Project 11-0019. Assuming that the laboratory could improve the chromatography of the system by performing maintenance, the reanalysis may provide better results for quantitating the PE sample as well as achieving a greater confidence for the non-detected results in the field samples.

Cc:

A. Quinones

A. Lee

**APPENDIX B
ANALYTICAL DATA REPORTS
KERR-MCGEE CHEMICAL (COLUMBUS) SITE
(FORMERLY TRONOX RESIDENTIAL SOIL SAMPLING INVESTIGATION)
SESD PROJECT IDENTIFICATION NUMBER 11-0019
WEEK OF OCTOBER 25, 2010**

**Semi-Volatile Organic Compounds Analytical Data Reports
(11-0019) (153 Total Pages)**

**Dioxin Analytical Data Reports
(11-0019) (104 Total Pages)**



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
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D.A.R.T. Id: 11-0019

Project: 11-0019, Tronox Inc - Reported by Jeffrey Hendel

January 25, 2011

4SESD-MTSB

MEMORANDUM

SUBJECT: FINAL Analytical Report
Project: 11-0019, Tronox Inc
Superfund Emergency Response and Removal

FROM: Jeffrey Hendel
Quality Assurance Section Chemist

THRU: Marilyn Maycock, Chief
Quality Assurance Section

TO: Timothy Simpson

This data report is being reissued. Some or all of these results were previously reported. Please substitute the corrected results for those results previously reported. Please refer to the Report Narrative for more details.

Attached are the final results for the analytical groups listed below. These analyses were performed in accordance with the associated contract Statement Of Work (SOW). In general, project data quality objectives have not been used to evaluate these data prior to release by the Quality Assurance Section. For a listing of specific data qualifiers and explanations, please refer to the Data Qualifier Definitions included in this report.

Analyses Included in this report:

Method Used:

Semi Volatile Organics (SVOA)

Semivolatile organic compounds

CLP BNA



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Report Narrative for Work Order C104601, Project: 11-0019

Organic Data Review and Validation

Project No. 11-0019, Case No. 40729

Work Order No(s): C104601

EPA Sample Nos.: C104601-01 – 50

Sampling date(s): 10/25 – 26/10'

Validated Time of Sample Receipt: 10/29/2010

Laboratory Performing Organic CLP Analyses: Mitkem Laboratories, Warwick, RI

Data for Site: Tronox, Inc., Columbus, MS

Analyses Conducted: Semivolatile Extractables including SIM

The ESAT Work Team reviewed data for forty-nine soil samples analyzed for semivolatile extractables including single ion monitoring (SIM) by SOM01.2 submitted in three sample delivery groups (SDGs). The laboratory was submitted one performance evaluation sample (PES).

The samples were collected between 10/25/10 and 10/26/10, were received by the laboratory between 10/28/10 and 10/29/10, and the data package was received on 11/18/10 by the USEPA Quality Assurance Section, Region 4 SED/MTSB.

The laboratory satisfied all technical and contractual analysis and extraction holding time limits.

All sample results associated with erratic initial and/or continuing calibration performance were "J" flagged with the appropriate Element qualifier. Deuterated monitoring compounds (DMCs) are used as surrogates in each sample for GC/MS analysis to monitor extraction efficiency.

Pertinent data quality factors are discussed below.

Semivolatile Extractables

1. All spiked analytes were scored within warning limits in the PES.
2. The recoveries of DMCs were below QC limits in sample C104601-41 and the associated results were "J" qualified.
3. The recovery of semivolatile DMC 4-chloroaniline-d4 was below 10%, but within limits, in samples C104601-14, 16, 22, 23, 30, 33, 35, 42, 47, and 48. The associated results were "J" qualified in the above samples.
4. The recoveries of DMCs were above QC limits in samples C104601-32 and 38. The positive results associated with these DMCs were "J" qualified.



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5. Low recoveries were observed for pyrene and N-nitroso-di-n-propylamine in the matrix spike/matrix spike duplicates (MS/MSDs) performed for samples C104601-16 and 29. The pyrene and N-nitroso-di-n-propylamine results were "J" qualified in these two samples.

Semivolatile Extractables-SIM

6. Poor responses were observed for pentachlorophenol in continuing calibrations. The not detected results for this compound were "R" qualified in samples C10460102, 18, 19, 21, and 49. The full scan results, all not detected, from these samples were used for Element entry to avoid the "R" qualifier.
7. Internal standard area counts were outside QC limits in samples C104601-01, 09, 19, 21, 37 and 38. The sample results associated with these internal standards were "J" qualified.

A Stage 4 validation consisting of both electronic and manual review was performed on the organic samples submitted for this case.

BNA data associated with this case has been re-released due to a duplicate reported value for Benzo(a)anthracene in sample C104601-35. The value of 230 ug/kg from the SIM analysis was deemed to be the appropriated value for reporting. The original value of 160J ug/kg was deleted from the full scan analysis.

cc: Nardina Turner



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SAMPLES INCLUDED IN THIS REPORT

Project: 11-0019, Tronox Inc

Contract Lab Case: 40729

Sample ID	Laboratory ID	MD#	D#	Matrix	Date Collected
12131ASF	C104601-01		6569	Surface Soil	10/26/10 10:19
12323ASF	C104601-02		6582	Surface Soil	10/26/10 13:10
12324ASF	C104601-03		6583	Surface Soil	10/26/10 13:32
12462ASF	C104601-04		6577	Surface Soil	10/26/10 11:07
12462BSF	C104601-05		6578	Surface Soil	10/26/10 11:28
12462CSF	C104601-06		6579	Surface Soil	10/26/10 11:45
12462CSFX	C104601-07		6580	Surface Soil	10/26/10 11:45
12470ASF	C104601-08		6581	Surface Soil	10/26/10 14:15
12484ASF	C104601-09		6570	Surface Soil	10/25/10 17:00
12486ASF	C104601-10		6571	Surface Soil	10/25/10 16:35
12490ASF	C104601-11		6572	Surface Soil	10/25/10 16:00
12490ASFX	C104601-12		6573	Surface Soil	10/25/10 16:00
12491ASF	C104601-13		6574	Surface Soil	10/26/10 09:05
12520ASF	C104601-14		6575	Surface Soil	10/26/10 09:20
12522ASF	C104601-15		6576	Surface Soil	10/26/10 08:36
12621ASF	C104601-16		6585	Surface Soil	10/26/10 10:00
12622ASF	C104601-17		65B2	Surface Soil	10/26/10 09:45
12623ASF	C104601-18		6586	Surface Soil	10/26/10 09:25
12624BSF	C104601-19		6588	Surface Soil	10/25/10 16:45
12629ASF	C104601-20		65B1	Surface Soil	10/26/10 08:25
12630ASF	C104601-21		6589	Surface Soil	10/25/10 17:03
12633ASF	C104601-22		6590	Surface Soil	10/26/10 08:50
12634ASF	C104601-23		6591	Surface Soil	10/26/10 09:07
13723ASF	C104601-24		65B3	Surface Soil	10/25/10 17:00
13743ASF	C104601-25		65B4	Surface Soil	10/25/10 17:20
13744ASF	C104601-26		65B5	Surface Soil	10/25/10 15:50
13744BSB12	C104601-27		65Z9	Subsurface Soil	10/25/10 16:30
13744BSF	C104601-28		65Z8	Surface Soil	10/25/10 16:10
13746ASF	C104601-29		65A1	Surface Soil	10/26/10 09:20
13750ASF	C104601-30		65A2	Surface Soil	10/26/10 09:00
13753ASF	C104601-31		65A3	Surface Soil	10/26/10 08:40
13755ASF	C104601-32		65A4	Surface Soil	10/26/10 09:50
13756ASF	C104601-33		65A5	Surface Soil	10/26/10 10:15
13758ASF	C104601-34		65A6	Surface Soil	10/26/10 10:30



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13758ASFX	C104601-35	65A7	Surface Soil	10/26/10 10:35
13759ASF	C104601-36	65A8	Surface Soil	10/26/10 11:00
13761ASF	C104601-37	65B0	Surface Soil	10/26/10 11:25
13762ASF	C104601-38	66F7	Surface Soil	10/26/10 13:00
13766ASF	C104601-39	66F8	Surface Soil	10/26/10 13:20
13767ASF	C104601-40	6592	Surface Soil	10/25/10 15:41
13774ASF	C104601-41	6593	Surface Soil	10/26/10 12:30
13775ASB12	C104601-42	6595	Subsurface Soil	10/26/10 14:25
13775ASF	C104601-43	6594	Surface Soil	10/26/10 14:00
13785ASF	C104601-44	6599	Surface Soil	10/26/10 13:40
13889ASF	C104601-45	6598	Surface Soil	10/26/10 14:30
13890ASF	C104601-46	6597	Surface Soil	10/26/10 14:08
13894ASF	C104601-47	65A0	Surface Soil	10/26/10 13:10
13900ASF	C104601-48	6596	Surface Soil	10/26/10 12:51
12624ASB12	C104601-49	6587	Subsurface Soil	10/25/10 16:25



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DATA QUALIFIER DEFINITIONS

U	The analyte was not detected at or above the reporting limit.
CLP01	Concentration reported is less than the lowest standard on calibration curve
CLP02	Concentration reported is greater than the highest standard on calibration curve
CLP15	TIC Results Reported as Identified by Lab - IDs Not Verified
CLP16	Initial Calibration Response Erratic
CLP17	Initial Calibration Relative Response Outside Method Control Limits
J	The identification of the analyte is acceptable; the reported value is an estimate.
N	There is presumptive evidence that the analyte is present; the analyte is reported as a tentative identification.
NJ	Presumptive evidence that analyte is present; reported as a tentative identification with an estimated value.
QC-1	Analyte concentration low in continuing calibration verification standard
QC-2	Analyte concentration high in continuing calibration verification standard
QI-1	Internal standard was outside of method control limits.
QM-1	Matrix Spike Recovery less than method control limits
QS-4	Surrogate recovery less than 10%
QS-5	Surrogate recovery is higher than established control limits

ACRONYMS AND ABBREVIATIONS

CAS	Chemical Abstracts Service Note: Analytes with no known CAS identifiers have been assigned codes beginning with "E", the EPA ID as assigned by the EPA Substance Registry System (www.epa.gov/srs), or beginning with "R4-", a unique identifier assigned by the EPA Region 4 laboratory.
MDL	Method Detection Limit - The minimum concentration of a substance (an analyte) that can be measured and reported with a 99% confidence that the analyte concentration is greater than zero.
MRL	Minimum Reporting Limit - Analyte concentration that corresponds to the lowest demonstrated level of acceptable quantitation. The MRL is sample-specific and accounts for preparation weights and volumes, dilutions, and moisture content of soil/sediments.
TIC	Tentatively Identified Compound - An analyte identified based on a match with the instrument software's mass spectral library. A calibration standard has not been analyzed to confirm the compound's identification or the estimated concentration reported.



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Semi Volatile Organics

Project: 11-0019, Tronox Inc

Contract Lab Case: 40729

Sample ID: 12131ASF

Lab ID: C104601-01

MD No:

Station ID: 12131

Matrix: Surface Soil

D No: 6569 MITKEM

Date Collected: 10/26/10 10:19

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	16		%		11/01/10	11/09/10	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
92-52-4	1,1-Biphenyl	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
95-94-3	1,2,4,5-Tetrachlorobenzene	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
58-90-2	2,3,4,6-Tetrachlorophenol	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
95-95-4	2,4,5-Trichlorophenol	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
88-06-2	2,4,6-Trichlorophenol	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
120-83-2	2,4-Dichlorophenol	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
105-67-9	2,4-Dimethylphenol	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
51-28-5	2,4-Dinitrophenol	390	U, J, CLP16	ug/kg dry	390	11/01/10	11/09/10	CLP SOM01.2 B
121-14-2	2,4-Dinitrotoluene	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
606-20-2	2,6-Dinitrotoluene	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
91-58-7	2-Chloronaphthalene	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
95-57-8	2-Chlorophenol	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
534-52-1	2-Methyl-4,6-dinitrophenol	390	U	ug/kg dry	390	11/01/10	11/09/10	CLP SOM01.2 B
91-57-6	2-Methylnaphthalene	3.9	U	ug/kg dry	3.9	11/01/10	11/13/10	CLP SOM01.2 BS
95-48-7	2-Methylphenol	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
88-74-4	2-Nitroaniline	390	U	ug/kg dry	390	11/01/10	11/09/10	CLP SOM01.2 B
88-75-5	2-Nitrophenol	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
91-94-1	3,3'-Dichlorobenzidine	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
99-09-2	3-Nitroaniline	390	U	ug/kg dry	390	11/01/10	11/09/10	CLP SOM01.2 B
101-55-3	4-Bromophenyl phenyl ether	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
59-50-7	4-Chloro-3-methylphenol	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
106-47-8	4-Chloroaniline	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
7005-72-3	4-Chlorophenyl phenyl ether	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
100-01-6	4-Nitroaniline	390	U	ug/kg dry	390	11/01/10	11/09/10	CLP SOM01.2 B
100-02-7	4-Nitrophenol	390	U	ug/kg dry	390	11/01/10	11/09/10	CLP SOM01.2 B
83-32-9	Acenaphthene	3.9	U	ug/kg dry	3.9	11/01/10	11/13/10	CLP SOM01.2 BS
208-96-8	Acenaphthylene	16	J, QI-1	ug/kg dry	3.9	11/01/10	11/13/10	CLP SOM01.2 BS
98-86-2	Acetophenone	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B



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Semi Volatile Organics

Project: 11-0019, Tronox Inc

Contract Lab Case: 40729

Sample ID: 12131ASF

Lab ID: C104601-01

MD No:

Station ID: 12131

Matrix: Surface Soil

D No: 6569 MITKEM

Date Collected: 10/26/10 10:19

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
120-12-7	Anthracene	16		ug/kg dry	3.9	11/01/10	11/13/10	CLP SOM01.2 BS
1912-24-9	Atrazine	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
100-52-7	Benzaldehyde	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
56-55-3	Benzo(a)anthracene	68		ug/kg dry	39	11/01/10	11/20/10	CLP SOM01.2 BS
50-32-8	Benzo(a)pyrene	200	J, QI-1	ug/kg dry	39	11/01/10	11/20/10	CLP SOM01.2 BS
205-99-2	Benzo(b)fluoranthene	390	J, QI-1	ug/kg dry	39	11/01/10	11/20/10	CLP SOM01.2 BS
191-24-2	Benzo(g,h,i)perylene	150	J, QI-1	ug/kg dry	39	11/01/10	11/20/10	CLP SOM01.2 BS
207-08-9	Benzo(k)fluoranthene	210	J, QI-1	ug/kg dry	39	11/01/10	11/20/10	CLP SOM01.2 BS
85-68-7	Benzyl butyl phthalate	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
111-91-1	Bis(2-chloroethoxy)methane	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
111-44-4	bis(2-Chloroethyl) Ether	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
39638-32-9	Bis(2-chloroisopropyl) ether	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
117-81-7	Bis(2-ethylhexyl) phthalate	230		ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
105-60-2	Caprolactam	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
86-74-8	Carbazole	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
218-01-9	Chrysene	100		ug/kg dry	39	11/01/10	11/20/10	CLP SOM01.2 BS
53-70-3	Dibenzo(a,h)anthracene	24	J, QI-1	ug/kg dry	3.9	11/01/10	11/13/10	CLP SOM01.2 BS
132-64-9	Dibenzofuran	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
84-66-2	Diethyl phthalate	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
131-11-3	Dimethyl phthalate	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
84-74-2	Di-n-butylphthalate	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
117-84-0	Di-n-octylphthalate	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
206-44-0	Fluoranthene	85		ug/kg dry	39	11/01/10	11/20/10	CLP SOM01.2 BS
86-73-7	Fluorene	3.9	U	ug/kg dry	3.9	11/01/10	11/13/10	CLP SOM01.2 BS
118-74-1	Hexachlorobenzene (HCB)	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
87-68-3	Hexachlorobutadiene	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
67-72-1	Hexachloroethane	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
193-39-5	Indeno (1,2,3-cd) pyrene	140	J, QI-1	ug/kg dry	39	11/01/10	11/20/10	CLP SOM01.2 BS
78-59-1	Isophorone	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
91-20-3	Naphthalene	3.9	U	ug/kg dry	3.9	11/01/10	11/13/10	CLP SOM01.2 BS



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Contract Lab Case: 40729

Sample ID: 12131ASF

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MD No:

Station ID: 12131

Matrix: Surface Soil

D No: 6569 MITKEM

Date Collected: 10/26/10 10:19

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
98-95-3	Nitrobenzene	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
621-64-7	n-Nitroso di-n-Propylamine	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
87-86-5	Pentachlorophenol	11	J, CLP16, QC-1, QC-2	ug/kg dry	7.8	11/01/10	11/13/10	CLP SOM01.2 BS
85-01-8	Phenanthrene	16		ug/kg dry	3.9	11/01/10	11/13/10	CLP SOM01.2 BS
108-95-2	Phenol	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
129-00-0	Pyrene	77		ug/kg dry	39	11/01/10	11/20/10	CLP SOM01.2 BS

Tentatively Identified Compounds:

83-47-6	.gamma.-Sitosterol	600	NJ, CLP15	ug/kg dry		11/01/10	11/09/10	CLP SOM01.2 B
R4-6500	Petroleum Product:		N, CLP15			11/01/10	11/09/10	CLP SOM01.2 B
23455-44-9	Spinasterone	200	NJ, CLP15	ug/kg dry		11/01/10	11/09/10	CLP SOM01.2 B
1058-61-3	Stigmast-4-en-3-one	400	NJ, CLP15	ug/kg dry		11/01/10	11/09/10	CLP SOM01.2 B
83-48-7	Stigmasterol	300	NJ, CLP15	ug/kg dry		11/01/10	11/09/10	CLP SOM01.2 B
R4-6501	Unidentified Compound(s)	2000	J, CLP15	ug/kg dry		11/01/10	11/09/10	CLP SOM01.2 B



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D.A.R.T. Id: 11-0019

Project: 11-0019, Tronox Inc - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 11-0019, Tronox Inc

Contract Lab Case: 40729

Sample ID: 12323ASF

Lab ID: C104601-02

MD No:

Station ID: 12323

Matrix: Surface Soil

D No: 6582 MITKEM

Date Collected: 10/26/10 13:10

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	15		%		11/01/10	11/09/10	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
92-52-4	1,1-Biphenyl	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
95-94-3	1,2,4,5-Tetrachlorobenzene	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
58-90-2	2,3,4,6-Tetrachlorophenol	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
95-95-4	2,4,5-Trichlorophenol	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
88-06-2	2,4,6-Trichlorophenol	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
120-83-2	2,4-Dichlorophenol	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
105-67-9	2,4-Dimethylphenol	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
51-28-5	2,4-Dinitrophenol	390	U, J, CLP16	ug/kg dry	390	11/01/10	11/09/10	CLP SOM01.2 B
121-14-2	2,4-Dinitrotoluene	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
606-20-2	2,6-Dinitrotoluene	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
91-58-7	2-Chloronaphthalene	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
95-57-8	2-Chlorophenol	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
534-52-1	2-Methyl-4,6-dinitrophenol	390	U	ug/kg dry	390	11/01/10	11/09/10	CLP SOM01.2 B
91-57-6	2-Methylnaphthalene	4.0		ug/kg dry	3.9	11/01/10	11/19/10	CLP SOM01.2 BS
95-48-7	2-Methylphenol	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
88-74-4	2-Nitroaniline	390	U	ug/kg dry	390	11/01/10	11/09/10	CLP SOM01.2 B
88-75-5	2-Nitrophenol	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
91-94-1	3,3'-Dichlorobenzidine	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
99-09-2	3-Nitroaniline	390	U	ug/kg dry	390	11/01/10	11/09/10	CLP SOM01.2 B
101-55-3	4-Bromophenyl phenyl ether	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
59-50-7	4-Chloro-3-methylphenol	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
106-47-8	4-Chloroaniline	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
7005-72-3	4-Chlorophenyl phenyl ether	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
100-01-6	4-Nitroaniline	390	U	ug/kg dry	390	11/01/10	11/09/10	CLP SOM01.2 B
100-02-7	4-Nitrophenol	390	U	ug/kg dry	390	11/01/10	11/09/10	CLP SOM01.2 B
83-32-9	Acenaphthene	3.9	U	ug/kg dry	3.9	11/01/10	11/19/10	CLP SOM01.2 BS
208-96-8	Acenaphthylene	26		ug/kg dry	3.9	11/01/10	11/19/10	CLP SOM01.2 BS
98-86-2	Acetophenone	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B



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Project: 11-0019, Tronox Inc - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 11-0019, Tronox Inc

Contract Lab Case: 40729

Sample ID: 12323ASF

Lab ID: C104601-02

MD No:

Station ID: 12323

Matrix: Surface Soil

D No: 6582 MITKEM

Date Collected: 10/26/10 13:10

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
120-12-7	Anthracene	27		ug/kg dry	3.9	11/01/10	11/19/10	CLP SOM01.2 BS
1912-24-9	Atrazine	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
100-52-7	Benzaldehyde	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
56-55-3	Benzo(a)anthracene	45		ug/kg dry	19	11/01/10	11/20/10	CLP SOM01.2 BS
50-32-8	Benzo(a)pyrene	70		ug/kg dry	19	11/01/10	11/20/10	CLP SOM01.2 BS
205-99-2	Benzo(b)fluoranthene	160	J, QC-2	ug/kg dry	19	11/01/10	11/20/10	CLP SOM01.2 BS
191-24-2	Benzo(g,h,i)perylene	62		ug/kg dry	19	11/01/10	11/20/10	CLP SOM01.2 BS
207-08-9	Benzo(k)fluoranthene	58		ug/kg dry	19	11/01/10	11/20/10	CLP SOM01.2 BS
85-68-7	Benzyl butyl phthalate	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
111-91-1	Bis(2-chloroethoxy)methane	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
111-44-4	bis(2-Chloroethyl) Ether	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
39638-32-9	Bis(2-chloroisopropyl) ether	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
117-81-7	Bis(2-ethylhexyl) phthalate	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
105-60-2	Caprolactam	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
86-74-8	Carbazole	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
218-01-9	Chrysene	87		ug/kg dry	19	11/01/10	11/20/10	CLP SOM01.2 BS
53-70-3	Dibenzo(a,h)anthracene	20		ug/kg dry	19	11/01/10	11/20/10	CLP SOM01.2 BS
132-64-9	Dibenzofuran	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
84-66-2	Diethyl phthalate	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
131-11-3	Dimethyl phthalate	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
84-74-2	Di-n-butylphthalate	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
117-84-0	Di-n-octylphthalate	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
206-44-0	Fluoranthene	63		ug/kg dry	19	11/01/10	11/20/10	CLP SOM01.2 BS
86-73-7	Fluorene	3.9	U	ug/kg dry	3.9	11/01/10	11/19/10	CLP SOM01.2 BS
118-74-1	Hexachlorobenzene (HCB)	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
87-68-3	Hexachlorobutadiene	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
67-72-1	Hexachloroethane	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
193-39-5	Indeno (1,2,3-cd) pyrene	61		ug/kg dry	19	11/01/10	11/20/10	CLP SOM01.2 BS
78-59-1	Isophorone	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
91-20-3	Naphthalene	4.9		ug/kg dry	3.9	11/01/10	11/19/10	CLP SOM01.2 BS



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Semi Volatile Organics

Project: 11-0019, Tronox Inc

Contract Lab Case: 40729

Sample ID: 12323ASF

Lab ID: C104601-02

MD No:

Station ID: 12323

Matrix: Surface Soil

D No: 6582 MITKEM

Date Collected: 10/26/10 13:10

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
98-95-3	Nitrobenzene	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
621-64-7	n-Nitroso di-n-Propylamine	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
87-86-5	Pentachlorophenol	390	U	ug/kg dry	390	11/01/10	11/09/10	CLP SOM01.2 B
85-01-8	Phenanthrene	18		ug/kg dry	3.9	11/01/10	11/19/10	CLP SOM01.2 BS
108-95-2	Phenol	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
129-00-0	Pyrene	60		ug/kg dry	19	11/01/10	11/20/10	CLP SOM01.2 BS
Tentatively Identified Compounds:								
83-47-6	.gamma.-Sitosterol	600	NJ, CLP15	ug/kg dry		11/01/10	11/09/10	CLP SOM01.2 B
R4-6500	Petroleum Product:		N, CLP15			11/01/10	11/09/10	CLP SOM01.2 B
1058-61-3	Stigmast-4-en-3-one	300	NJ, CLP15	ug/kg dry		11/01/10	11/09/10	CLP SOM01.2 B
R4-6501	Unidentified Compound(s)	900	J, CLP15	ug/kg dry		11/01/10	11/09/10	CLP SOM01.2 B



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Project: 11-0019, Tronox Inc - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 11-0019, Tronox Inc

Contract Lab Case: 40729

Sample ID: 12324ASF

Lab ID: C104601-03

MD No:

Station ID: 12324

Matrix: Surface Soil

D No: 6583 MITKEM

Date Collected: 10/26/10 13:32

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	15		%		11/01/10	11/09/10	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
92-52-4	1,1-Biphenyl	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
95-94-3	1,2,4,5-Tetrachlorobenzene	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
58-90-2	2,3,4,6-Tetrachlorophenol	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
95-95-4	2,4,5-Trichlorophenol	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
88-06-2	2,4,6-Trichlorophenol	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
120-83-2	2,4-Dichlorophenol	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
105-67-9	2,4-Dimethylphenol	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
51-28-5	2,4-Dinitrophenol	380	U, J, CLP16	ug/kg dry	380	11/01/10	11/09/10	CLP SOM01.2 B
121-14-2	2,4-Dinitrotoluene	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
606-20-2	2,6-Dinitrotoluene	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
91-58-7	2-Chloronaphthalene	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
95-57-8	2-Chlorophenol	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
534-52-1	2-Methyl-4,6-dinitrophenol	380	U	ug/kg dry	380	11/01/10	11/09/10	CLP SOM01.2 B
91-57-6	2-Methylnaphthalene	3.8	U	ug/kg dry	3.8	11/01/10	11/19/10	CLP SOM01.2 BS
95-48-7	2-Methylphenol	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
88-74-4	2-Nitroaniline	380	U	ug/kg dry	380	11/01/10	11/09/10	CLP SOM01.2 B
88-75-5	2-Nitrophenol	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
91-94-1	3,3'-Dichlorobenzidine	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
99-09-2	3-Nitroaniline	380	U	ug/kg dry	380	11/01/10	11/09/10	CLP SOM01.2 B
101-55-3	4-Bromophenyl phenyl ether	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
59-50-7	4-Chloro-3-methylphenol	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
106-47-8	4-Chloroaniline	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
7005-72-3	4-Chlorophenyl phenyl ether	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
100-01-6	4-Nitroaniline	380	U	ug/kg dry	380	11/01/10	11/09/10	CLP SOM01.2 B
100-02-7	4-Nitrophenol	380	U	ug/kg dry	380	11/01/10	11/09/10	CLP SOM01.2 B
83-32-9	Acenaphthene	3.8	U	ug/kg dry	3.8	11/01/10	11/19/10	CLP SOM01.2 BS
208-96-8	Acenaphthylene	39		ug/kg dry	38	11/01/10	11/20/10	CLP SOM01.2 BS
98-86-2	Acetophenone	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B



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Semi Volatile Organics

Project: 11-0019, Tronox Inc

Contract Lab Case: 40729

Sample ID: 12324ASF

Lab ID: C104601-03

MD No:

Station ID: 12324

Matrix: Surface Soil

D No: 6583 MITKEM

Date Collected: 10/26/10 13:32

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
120-12-7	Anthracene	36		ug/kg dry	3.8	11/01/10	11/19/10	CLP SOM01.2 BS
1912-24-9	Atrazine	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
100-52-7	Benzaldehyde	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
56-55-3	Benzo(a)anthracene	78		ug/kg dry	38	11/01/10	11/20/10	CLP SOM01.2 BS
50-32-8	Benzo(a)pyrene	130		ug/kg dry	38	11/01/10	11/20/10	CLP SOM01.2 BS
205-99-2	Benzo(b)fluoranthene	280		ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
191-24-2	Benzo(g,h,i)perylene	96		ug/kg dry	38	11/01/10	11/20/10	CLP SOM01.2 BS
207-08-9	Benzo(k)fluoranthene	140		ug/kg dry	38	11/01/10	11/20/10	CLP SOM01.2 BS
85-68-7	Benzyl butyl phthalate	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
111-91-1	Bis(2-chloroethoxy)methane	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
111-44-4	bis(2-Chloroethyl) Ether	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
39638-32-9	Bis(2-chloroisopropyl) ether	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
117-81-7	Bis(2-ethylhexyl) phthalate	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
105-60-2	Caprolactam	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
86-74-8	Carbazole	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
218-01-9	Chrysene	140		ug/kg dry	38	11/01/10	11/20/10	CLP SOM01.2 BS
53-70-3	Dibenzo(a,h)anthracene	38	U	ug/kg dry	38	11/01/10	11/20/10	CLP SOM01.2 BS
132-64-9	Dibenzofuran	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
84-66-2	Diethyl phthalate	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
131-11-3	Dimethyl phthalate	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
84-74-2	Di-n-butylphthalate	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
117-84-0	Di-n-octylphthalate	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
206-44-0	Fluoranthene	110		ug/kg dry	38	11/01/10	11/20/10	CLP SOM01.2 BS
86-73-7	Fluorene	3.8	U	ug/kg dry	3.8	11/01/10	11/19/10	CLP SOM01.2 BS
118-74-1	Hexachlorobenzene (HCB)	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
87-68-3	Hexachlorobutadiene	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
67-72-1	Hexachloroethane	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
193-39-5	Indeno (1,2,3-cd) pyrene	100		ug/kg dry	38	11/01/10	11/20/10	CLP SOM01.2 BS
78-59-1	Isophorone	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
91-20-3	Naphthalene	5.3		ug/kg dry	3.8	11/01/10	11/19/10	CLP SOM01.2 BS



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Semi Volatile Organics

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Contract Lab Case: 40729

Sample ID: 12324ASF

Lab ID: C104601-03

MD No:

Station ID: 12324

Matrix: Surface Soil

D No: 6583 MITKEM

Date Collected: 10/26/10 13:32

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
98-95-3	Nitrobenzene	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
621-64-7	n-Nitroso di-n-Propylamine	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
87-86-5	Pentachlorophenol	29	J, CLP16, QC-1	ug/kg dry	7.8	11/01/10	11/19/10	CLP SOM01.2 BS
85-01-8	Phenanthrene	20		ug/kg dry	3.8	11/01/10	11/19/10	CLP SOM01.2 BS
108-95-2	Phenol	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
129-00-0	Pyrene	130		ug/kg dry	38	11/01/10	11/20/10	CLP SOM01.2 BS
Tentatively Identified Compounds:								
83-47-6	.gamma.-Sitosterol	500	NJ, CLP15	ug/kg dry		11/01/10	11/09/10	CLP SOM01.2 B
R4-6500	Petroleum Product:		N, CLP15			11/01/10	11/09/10	CLP SOM01.2 B
R4-6501	Unidentified Compound(s)	4000	J, CLP15	ug/kg dry		11/01/10	11/09/10	CLP SOM01.2 B



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0019

Project: 11-0019, Tronox Inc - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 11-0019, Tronox Inc

Contract Lab Case: 40729

Sample ID: 12462ASF

Lab ID: C104601-04

MD No:

Station ID: 12462A

Matrix: Surface Soil

D No: 6577 MITKEM

Date Collected: 10/26/10 11:07

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	20		%		11/01/10	11/09/10	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	210	U	ug/kg dry	210	11/01/10	11/09/10	CLP SOM01.2 B
92-52-4	1,1-Biphenyl	210	U	ug/kg dry	210	11/01/10	11/09/10	CLP SOM01.2 B
95-94-3	1,2,4,5-Tetrachlorobenzene	210	U	ug/kg dry	210	11/01/10	11/09/10	CLP SOM01.2 B
58-90-2	2,3,4,6-Tetrachlorophenol	210	U	ug/kg dry	210	11/01/10	11/09/10	CLP SOM01.2 B
95-95-4	2,4,5-Trichlorophenol	210	U	ug/kg dry	210	11/01/10	11/09/10	CLP SOM01.2 B
88-06-2	2,4,6-Trichlorophenol	210	U	ug/kg dry	210	11/01/10	11/09/10	CLP SOM01.2 B
120-83-2	2,4-Dichlorophenol	210	U	ug/kg dry	210	11/01/10	11/09/10	CLP SOM01.2 B
105-67-9	2,4-Dimethylphenol	210	U	ug/kg dry	210	11/01/10	11/09/10	CLP SOM01.2 B
51-28-5	2,4-Dinitrophenol	410	U, J, CLP16	ug/kg dry	410	11/01/10	11/09/10	CLP SOM01.2 B
121-14-2	2,4-Dinitrotoluene	210	U	ug/kg dry	210	11/01/10	11/09/10	CLP SOM01.2 B
606-20-2	2,6-Dinitrotoluene	210	U	ug/kg dry	210	11/01/10	11/09/10	CLP SOM01.2 B
91-58-7	2-Chloronaphthalene	210	U	ug/kg dry	210	11/01/10	11/09/10	CLP SOM01.2 B
95-57-8	2-Chlorophenol	210	U	ug/kg dry	210	11/01/10	11/09/10	CLP SOM01.2 B
534-52-1	2-Methyl-4,6-dinitrophenol	410	U	ug/kg dry	410	11/01/10	11/09/10	CLP SOM01.2 B
91-57-6	2-Methylnaphthalene	4.1	U	ug/kg dry	4.1	11/01/10	11/17/10	CLP SOM01.2 BS
95-48-7	2-Methylphenol	210	U	ug/kg dry	210	11/01/10	11/09/10	CLP SOM01.2 B
88-74-4	2-Nitroaniline	410	U	ug/kg dry	410	11/01/10	11/09/10	CLP SOM01.2 B
88-75-5	2-Nitrophenol	210	U	ug/kg dry	210	11/01/10	11/09/10	CLP SOM01.2 B
91-94-1	3,3'-Dichlorobenzidine	210	U	ug/kg dry	210	11/01/10	11/09/10	CLP SOM01.2 B
99-09-2	3-Nitroaniline	410	U	ug/kg dry	410	11/01/10	11/09/10	CLP SOM01.2 B
101-55-3	4-Bromophenyl phenyl ether	210	U	ug/kg dry	210	11/01/10	11/09/10	CLP SOM01.2 B
59-50-7	4-Chloro-3-methylphenol	210	U	ug/kg dry	210	11/01/10	11/09/10	CLP SOM01.2 B
106-47-8	4-Chloroaniline	210	U	ug/kg dry	210	11/01/10	11/09/10	CLP SOM01.2 B
7005-72-3	4-Chlorophenyl phenyl ether	210	U	ug/kg dry	210	11/01/10	11/09/10	CLP SOM01.2 B
100-01-6	4-Nitroaniline	410	U	ug/kg dry	410	11/01/10	11/09/10	CLP SOM01.2 B
100-02-7	4-Nitrophenol	410	U	ug/kg dry	410	11/01/10	11/09/10	CLP SOM01.2 B
83-32-9	Acenaphthene	4.1	U	ug/kg dry	4.1	11/01/10	11/17/10	CLP SOM01.2 BS
208-96-8	Acenaphthylene	16		ug/kg dry	4.1	11/01/10	11/17/10	CLP SOM01.2 BS
98-86-2	Acetophenone	210	U	ug/kg dry	210	11/01/10	11/09/10	CLP SOM01.2 B



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D.A.R.T. Id: 11-0019

Project: 11-0019, Tronox Inc - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 11-0019, Tronox Inc

Contract Lab Case: 40729

Sample ID: 12462ASF

Lab ID: C104601-04

MD No:

Station ID: 12462A

Matrix: Surface Soil

D No: 6577 MITKEM

Date Collected: 10/26/10 11:07

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
120-12-7	Anthracene	17		ug/kg dry	4.1	11/01/10	11/17/10	CLP SOM01.2 BS
1912-24-9	Atrazine	210	U	ug/kg dry	210	11/01/10	11/09/10	CLP SOM01.2 B
100-52-7	Benzaldehyde	210	U	ug/kg dry	210	11/01/10	11/09/10	CLP SOM01.2 B
56-55-3	Benzo(a)anthracene	36		ug/kg dry	4.1	11/01/10	11/17/10	CLP SOM01.2 BS
50-32-8	Benzo(a)pyrene	69		ug/kg dry	41	11/01/10	11/18/10	CLP SOM01.2 BS
205-99-2	Benzo(b)fluoranthene	140		ug/kg dry	41	11/01/10	11/18/10	CLP SOM01.2 BS
191-24-2	Benzo(g,h,i)perylene	52		ug/kg dry	41	11/01/10	11/18/10	CLP SOM01.2 BS
207-08-9	Benzo(k)fluoranthene	75		ug/kg dry	41	11/01/10	11/18/10	CLP SOM01.2 BS
85-68-7	Benzyl butyl phthalate	210	U	ug/kg dry	210	11/01/10	11/09/10	CLP SOM01.2 B
111-91-1	Bis(2-chloroethoxy)methane	210	U	ug/kg dry	210	11/01/10	11/09/10	CLP SOM01.2 B
111-44-4	bis(2-Chloroethyl) Ether	210	U	ug/kg dry	210	11/01/10	11/09/10	CLP SOM01.2 B
39638-32-9	Bis(2-chloroisopropyl) ether	210	U	ug/kg dry	210	11/01/10	11/09/10	CLP SOM01.2 B
117-81-7	Bis(2-ethylhexyl) phthalate	210	U	ug/kg dry	210	11/01/10	11/09/10	CLP SOM01.2 B
105-60-2	Caprolactam	210	U	ug/kg dry	210	11/01/10	11/09/10	CLP SOM01.2 B
86-74-8	Carbazole	210	U	ug/kg dry	210	11/01/10	11/09/10	CLP SOM01.2 B
218-01-9	Chrysene	99		ug/kg dry	41	11/01/10	11/18/10	CLP SOM01.2 BS
53-70-3	Dibenzo(a,h)anthracene	20		ug/kg dry	4.1	11/01/10	11/17/10	CLP SOM01.2 BS
132-64-9	Dibenzofuran	210	U	ug/kg dry	210	11/01/10	11/09/10	CLP SOM01.2 B
84-66-2	Diethyl phthalate	210	U	ug/kg dry	210	11/01/10	11/09/10	CLP SOM01.2 B
131-11-3	Dimethyl phthalate	210	U	ug/kg dry	210	11/01/10	11/09/10	CLP SOM01.2 B
84-74-2	Di-n-butylphthalate	210	U	ug/kg dry	210	11/01/10	11/09/10	CLP SOM01.2 B
117-84-0	Di-n-octylphthalate	210	U	ug/kg dry	210	11/01/10	11/09/10	CLP SOM01.2 B
206-44-0	Fluoranthene	76		ug/kg dry	41	11/01/10	11/18/10	CLP SOM01.2 BS
86-73-7	Fluorene	4.1	U	ug/kg dry	4.1	11/01/10	11/17/10	CLP SOM01.2 BS
118-74-1	Hexachlorobenzene (HCB)	210	U	ug/kg dry	210	11/01/10	11/09/10	CLP SOM01.2 B
87-68-3	Hexachlorobutadiene	210	U	ug/kg dry	210	11/01/10	11/09/10	CLP SOM01.2 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	210	U	ug/kg dry	210	11/01/10	11/09/10	CLP SOM01.2 B
67-72-1	Hexachloroethane	210	U	ug/kg dry	210	11/01/10	11/09/10	CLP SOM01.2 B
193-39-5	Indeno (1,2,3-cd) pyrene	49		ug/kg dry	41	11/01/10	11/18/10	CLP SOM01.2 BS
78-59-1	Isophorone	210	U	ug/kg dry	210	11/01/10	11/09/10	CLP SOM01.2 B
91-20-3	Naphthalene	4.1	U	ug/kg dry	4.1	11/01/10	11/17/10	CLP SOM01.2 BS



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D.A.R.T. Id: 11-0019

Project: 11-0019, Tronox Inc - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 11-0019, Tronox Inc

Contract Lab Case: 40729

Sample ID: 12462ASF

Lab ID: C104601-04

MD No:

Station ID: 12462A

Matrix: Surface Soil

D No: 6577 MITKEM

Date Collected: 10/26/10 11:07

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
98-95-3	Nitrobenzene	210	U	ug/kg dry	210	11/01/10	11/09/10	CLP SOM01.2 B
621-64-7	n-Nitroso di-n-Propylamine	210	U	ug/kg dry	210	11/01/10	11/09/10	CLP SOM01.2 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	210	U	ug/kg dry	210	11/01/10	11/09/10	CLP SOM01.2 B
87-86-5	Pentachlorophenol	9.3	J, CLP16, QC-1	ug/kg dry	8.3	11/01/10	11/17/10	CLP SOM01.2 BS
85-01-8	Phenanthrene	11		ug/kg dry	4.1	11/01/10	11/17/10	CLP SOM01.2 BS
108-95-2	Phenol	210	U	ug/kg dry	210	11/01/10	11/09/10	CLP SOM01.2 B
129-00-0	Pyrene	78		ug/kg dry	41	11/01/10	11/18/10	CLP SOM01.2 BS

Tentatively Identified Compounds:

R4-6500	Petroleum Product:	N, CLP15				11/01/10	11/09/10	CLP SOM01.2 B
107304-12-1	Stigmastan-6,22-dien, 3,5-dedihydro-	400	NJ, CLP15	ug/kg dry		11/01/10	11/09/10	CLP SOM01.2 B
1000214-20-7	Stigmasterol, 22,23-dihydro-	400	NJ, CLP15	ug/kg dry		11/01/10	11/09/10	CLP SOM01.2 B



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D.A.R.T. Id: 11-0019

Project: 11-0019, Tronox Inc - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 11-0019, Tronox Inc

Contract Lab Case: 40729

Sample ID: 12462BSF

Lab ID: C104601-05

MD No:

Station ID: 12462B

Matrix: Surface Soil

D No: 6578 MITKEM

Date Collected: 10/26/10 11:28

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	14		%		11/01/10	11/09/10	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
92-52-4	1,1-Biphenyl	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
95-94-3	1,2,4,5-Tetrachlorobenzene	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
58-90-2	2,3,4,6-Tetrachlorophenol	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
95-95-4	2,4,5-Trichlorophenol	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
88-06-2	2,4,6-Trichlorophenol	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
120-83-2	2,4-Dichlorophenol	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
105-67-9	2,4-Dimethylphenol	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
51-28-5	2,4-Dinitrophenol	380	U, J, CLP16	ug/kg dry	380	11/01/10	11/09/10	CLP SOM01.2 B
121-14-2	2,4-Dinitrotoluene	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
606-20-2	2,6-Dinitrotoluene	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
91-58-7	2-Chloronaphthalene	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
95-57-8	2-Chlorophenol	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
534-52-1	2-Methyl-4,6-dinitrophenol	380	U	ug/kg dry	380	11/01/10	11/09/10	CLP SOM01.2 B
91-57-6	2-Methylnaphthalene	3.8	U	ug/kg dry	3.8	11/01/10	11/17/10	CLP SOM01.2 BS
95-48-7	2-Methylphenol	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
88-74-4	2-Nitroaniline	380	U	ug/kg dry	380	11/01/10	11/09/10	CLP SOM01.2 B
88-75-5	2-Nitrophenol	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
91-94-1	3,3'-Dichlorobenzidine	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
99-09-2	3-Nitroaniline	380	U	ug/kg dry	380	11/01/10	11/09/10	CLP SOM01.2 B
101-55-3	4-Bromophenyl phenyl ether	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
59-50-7	4-Chloro-3-methylphenol	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
106-47-8	4-Chloroaniline	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
7005-72-3	4-Chlorophenyl phenyl ether	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
100-01-6	4-Nitroaniline	380	U	ug/kg dry	380	11/01/10	11/09/10	CLP SOM01.2 B
100-02-7	4-Nitrophenol	380	U	ug/kg dry	380	11/01/10	11/09/10	CLP SOM01.2 B
83-32-9	Acenaphthene	17		ug/kg dry	3.8	11/01/10	11/17/10	CLP SOM01.2 BS
208-96-8	Acenaphthylene	850		ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
98-86-2	Acetophenone	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B



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D.A.R.T. Id: 11-0019
Project: 11-0019, Tronox Inc - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 11-0019, Tronox Inc

Contract Lab Case: 40729

Sample ID: 12462BSF

Lab ID: C104601-05

MD No:

Station ID: 12462B

Matrix: Surface Soil

D No: 6578 MITKEM

Date Collected: 10/26/10 11:28

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
120-12-7	Anthracene	1300		ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
1912-24-9	Atrazine	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
100-52-7	Benzaldehyde	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
56-55-3	Benzo(a)anthracene	6300		ug/kg dry	990	11/01/10	11/11/10	CLP SOM01.2 B
50-32-8	Benzo(a)pyrene	4800		ug/kg dry	990	11/01/10	11/11/10	CLP SOM01.2 B
205-99-2	Benzo(b)fluoranthene	11000		ug/kg dry	990	11/01/10	11/11/10	CLP SOM01.2 B
191-24-2	Benzo(g,h,i)perylene	1600		ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
207-08-9	Benzo(k)fluoranthene	7200		ug/kg dry	990	11/01/10	11/11/10	CLP SOM01.2 B
85-68-7	Benzyl butyl phthalate	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
111-91-1	Bis(2-chloroethoxy)methane	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
111-44-4	bis(2-Chloroethyl) Ether	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
39638-32-9	Bis(2-chloroisopropyl) ether	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
117-81-7	Bis(2-ethylhexyl) phthalate	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
105-60-2	Caprolactam	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
86-74-8	Carbazole	460		ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
218-01-9	Chrysene	7900		ug/kg dry	990	11/01/10	11/11/10	CLP SOM01.2 B
53-70-3	Dibenzo(a,h)anthracene	690		ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
132-64-9	Dibenzofuran	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
84-66-2	Diethyl phthalate	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
131-11-3	Dimethyl phthalate	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
84-74-2	Di-n-butylphthalate	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
117-84-0	Di-n-octylphthalate	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
206-44-0	Fluoranthene	3800		ug/kg dry	990	11/01/10	11/11/10	CLP SOM01.2 B
86-73-7	Fluorene	36		ug/kg dry	3.8	11/01/10	11/17/10	CLP SOM01.2 BS
118-74-1	Hexachlorobenzene (HCB)	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
87-68-3	Hexachlorobutadiene	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
67-72-1	Hexachloroethane	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
193-39-5	Indeno (1,2,3-cd) pyrene	2100		ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
78-59-1	Isophorone	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
91-20-3	Naphthalene	4.1		ug/kg dry	3.8	11/01/10	11/17/10	CLP SOM01.2 BS



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D.A.R.T. Id: 11-0019

Project: 11-0019, Tronox Inc - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 11-0019, Tronox Inc

Contract Lab Case: 40729

Sample ID: 12462BSF

Lab ID: C104601-05

MD No:

Station ID: 12462B

Matrix: Surface Soil

D No: 6578 MITKEM

Date Collected: 10/26/10 11:28

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
98-95-3	Nitrobenzene	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
621-64-7	n-Nitroso di-n-Propylamine	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
87-86-5	Pentachlorophenol	110	J, CLP16, QC-1	ug/kg dry	7.8	11/01/10	11/17/10	CLP SOM01.2 BS
85-01-8	Phenanthrene	92		ug/kg dry	38	11/01/10	11/18/10	CLP SOM01.2 BS
108-95-2	Phenol	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
129-00-0	Pyrene	8100		ug/kg dry	990	11/01/10	11/11/10	CLP SOM01.2 B
Tentatively Identified Compounds:								
83-47-6	.gamma.-Sitosterol	1000	NJ, CLP15	ug/kg dry		11/01/10	11/09/10	CLP SOM01.2 B
3075-84-1	1,1'-Biphenyl, 2,2',5,5'-tetramethyl-	300	NJ, CLP15	ug/kg dry		11/01/10	11/09/10	CLP SOM01.2 B
81-84-5	1,8-Naphthalic anhydride	400	NJ, CLP15	ug/kg dry		11/01/10	11/09/10	CLP SOM01.2 B
189-55-9	3,4:9,10-Dibenzopyrene	600	NJ, CLP15	ug/kg dry		11/01/10	11/09/10	CLP SOM01.2 B
1090-13-7	5,12-Naphthacenedione	200	NJ, CLP15	ug/kg dry		11/01/10	11/09/10	CLP SOM01.2 B
84-65-1	9,10-Anthracenedione	400	NJ, CLP15	ug/kg dry		11/01/10	11/09/10	CLP SOM01.2 B
215-58-7	Benzo[b]triphenylene	400	NJ, CLP15	ug/kg dry		11/01/10	11/09/10	CLP SOM01.2 B
192-97-2	Benzo[e]pyrene	8000	NJ, CLP15	ug/kg dry		11/01/10	11/09/10	CLP SOM01.2 B
5737-13-3	Cyclopenta(def)phenanthrenone	700	NJ, CLP15	ug/kg dry		11/01/10	11/09/10	CLP SOM01.2 B
27208-37-3	Cyclopenta[cd]pyrene	300	NJ, CLP15	ug/kg dry		11/01/10	11/09/10	CLP SOM01.2 B
R4-6500	Petroleum Product:		N, CLP15			11/01/10	11/09/10	CLP SOM01.2 B
1705-84-6	Triphenylene, 2-methyl-	300	NJ, CLP15	ug/kg dry		11/01/10	11/09/10	CLP SOM01.2 B
R4-6501	Unidentified Compound(s)	7000	J, CLP15	ug/kg dry		11/01/10	11/09/10	CLP SOM01.2 B



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980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0019

Project: 11-0019, Tronox Inc - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 11-0019, Tronox Inc

Contract Lab Case: 40729

Sample ID: 12462CSF

Lab ID: C104601-06

MD No:

Station ID: 12462C

Matrix: Surface Soil

D No: 6579 MITKEM

Date Collected: 10/26/10 11:45

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	15		%		11/01/10	11/09/10	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
92-52-4	1,1-Biphenyl	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
95-94-3	1,2,4,5-Tetrachlorobenzene	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
58-90-2	2,3,4,6-Tetrachlorophenol	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
95-95-4	2,4,5-Trichlorophenol	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
88-06-2	2,4,6-Trichlorophenol	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
120-83-2	2,4-Dichlorophenol	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
105-67-9	2,4-Dimethylphenol	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
51-28-5	2,4-Dinitrophenol	380	U, J, CLP16	ug/kg dry	380	11/01/10	11/09/10	CLP SOM01.2 B
121-14-2	2,4-Dinitrotoluene	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
606-20-2	2,6-Dinitrotoluene	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
91-58-7	2-Chloronaphthalene	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
95-57-8	2-Chlorophenol	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
534-52-1	2-Methyl-4,6-dinitrophenol	380	U	ug/kg dry	380	11/01/10	11/09/10	CLP SOM01.2 B
91-57-6	2-Methylnaphthalene	3.8	U	ug/kg dry	3.8	11/01/10	11/17/10	CLP SOM01.2 BS
95-48-7	2-Methylphenol	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
88-74-4	2-Nitroaniline	380	U	ug/kg dry	380	11/01/10	11/09/10	CLP SOM01.2 B
88-75-5	2-Nitrophenol	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
91-94-1	3,3'-Dichlorobenzidine	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
99-09-2	3-Nitroaniline	380	U	ug/kg dry	380	11/01/10	11/09/10	CLP SOM01.2 B
101-55-3	4-Bromophenyl phenyl ether	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
59-50-7	4-Chloro-3-methylphenol	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
106-47-8	4-Chloroaniline	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
7005-72-3	4-Chlorophenyl phenyl ether	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
100-01-6	4-Nitroaniline	380	U	ug/kg dry	380	11/01/10	11/09/10	CLP SOM01.2 B
100-02-7	4-Nitrophenol	380	U	ug/kg dry	380	11/01/10	11/09/10	CLP SOM01.2 B
83-32-9	Acenaphthene	3.8	U	ug/kg dry	3.8	11/01/10	11/17/10	CLP SOM01.2 BS
208-96-8	Acenaphthylene	11		ug/kg dry	3.8	11/01/10	11/17/10	CLP SOM01.2 BS
98-86-2	Acetophenone	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B



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 Project: 11-0019, Tronox Inc - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 11-0019, Tronox Inc

Contract Lab Case: 40729

Sample ID: 12462CSF

Lab ID: C104601-06

MD No:

Station ID: 12462C

Matrix: Surface Soil

D No: 6579 MITKEM

Date Collected: 10/26/10 11:45

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
120-12-7	Anthracene	19		ug/kg dry	3.8	11/01/10	11/17/10	CLP SOM01.2 BS
1912-24-9	Atrazine	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
100-52-7	Benzaldehyde	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
56-55-3	Benzo(a)anthracene	73		ug/kg dry	38	11/01/10	11/18/10	CLP SOM01.2 BS
50-32-8	Benzo(a)pyrene	77		ug/kg dry	38	11/01/10	11/18/10	CLP SOM01.2 BS
205-99-2	Benzo(b)fluoranthene	160		ug/kg dry	38	11/01/10	11/18/10	CLP SOM01.2 BS
191-24-2	Benzo(g,h,i)perylene	58		ug/kg dry	38	11/01/10	11/18/10	CLP SOM01.2 BS
207-08-9	Benzo(k)fluoranthene	85		ug/kg dry	38	11/01/10	11/18/10	CLP SOM01.2 BS
85-68-7	Benzyl butyl phthalate	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
111-91-1	Bis(2-chloroethoxy)methane	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
111-44-4	bis(2-Chloroethyl) Ether	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
39638-32-9	Bis(2-chloroisopropyl) ether	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
117-81-7	Bis(2-ethylhexyl) phthalate	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
105-60-2	Caprolactam	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
86-74-8	Carbazole	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
218-01-9	Chrysene	140		ug/kg dry	38	11/01/10	11/18/10	CLP SOM01.2 BS
53-70-3	Dibenzo(a,h)anthracene	19		ug/kg dry	3.8	11/01/10	11/17/10	CLP SOM01.2 BS
132-64-9	Dibenzofuran	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
84-66-2	Diethyl phthalate	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
131-11-3	Dimethyl phthalate	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
84-74-2	Di-n-butylphthalate	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
117-84-0	Di-n-octylphthalate	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
206-44-0	Fluoranthene	140		ug/kg dry	38	11/01/10	11/18/10	CLP SOM01.2 BS
86-73-7	Fluorene	3.8	U	ug/kg dry	3.8	11/01/10	11/17/10	CLP SOM01.2 BS
118-74-1	Hexachlorobenzene (HCB)	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
87-68-3	Hexachlorobutadiene	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
67-72-1	Hexachloroethane	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
193-39-5	Indeno (1,2,3-cd) pyrene	51		ug/kg dry	38	11/01/10	11/18/10	CLP SOM01.2 BS
78-59-1	Isophorone	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
91-20-3	Naphthalene	3.8	U	ug/kg dry	3.8	11/01/10	11/17/10	CLP SOM01.2 BS



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Semi Volatile Organics

Project: 11-0019, Tronox Inc

Contract Lab Case: 40729

Sample ID: 12462CSF

Lab ID: C104601-06

MD No:

Station ID: 12462C

Matrix: Surface Soil

D No: 6579 MITKEM

Date Collected: 10/26/10 11:45

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
98-95-3	Nitrobenzene	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
621-64-7	n-Nitroso di-n-Propylamine	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
87-86-5	Pentachlorophenol	7.8	U, J, CLP16, QC-1	ug/kg dry	7.8	11/01/10	11/17/10	CLP SOM01.2 BS
85-01-8	Phenanthrene	44		ug/kg dry	38	11/01/10	11/18/10	CLP SOM01.2 BS
108-95-2	Phenol	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
129-00-0	Pyrene	150		ug/kg dry	38	11/01/10	11/18/10	CLP SOM01.2 BS
Tentatively Identified Compounds:								
83-46-5	.beta.-Sitosterol	300	NJ, CLP15	ug/kg dry		11/01/10	11/09/10	CLP SOM01.2 B
R4-6500	Petroleum Product:		N, CLP15			11/01/10	11/09/10	CLP SOM01.2 B
83-48-7	Stigmasterol	300	NJ, CLP15	ug/kg dry		11/01/10	11/09/10	CLP SOM01.2 B
R4-6501	Unidentified Compound(s)	200	J, CLP15	ug/kg dry		11/01/10	11/09/10	CLP SOM01.2 B



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D.A.R.T. Id: 11-0019

Project: 11-0019, Tronox Inc - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 11-0019, Tronox Inc

Contract Lab Case: 40729

Sample ID: 12462CSFX

Lab ID: C104601-07

MD No:

Station ID: 12462C

Matrix: Surface Soil

D No: 6580 MITKEM

Date Collected: 10/26/10 11:45

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	16		%		11/01/10	11/09/10	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
92-52-4	1,1-Biphenyl	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
95-94-3	1,2,4,5-Tetrachlorobenzene	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
58-90-2	2,3,4,6-Tetrachlorophenol	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
95-95-4	2,4,5-Trichlorophenol	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
88-06-2	2,4,6-Trichlorophenol	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
120-83-2	2,4-Dichlorophenol	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
105-67-9	2,4-Dimethylphenol	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
51-28-5	2,4-Dinitrophenol	390	U, J, CLP16	ug/kg dry	390	11/01/10	11/09/10	CLP SOM01.2 B
121-14-2	2,4-Dinitrotoluene	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
606-20-2	2,6-Dinitrotoluene	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
91-58-7	2-Chloronaphthalene	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
95-57-8	2-Chlorophenol	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
534-52-1	2-Methyl-4,6-dinitrophenol	390	U	ug/kg dry	390	11/01/10	11/09/10	CLP SOM01.2 B
91-57-6	2-Methylnaphthalene	3.9	U	ug/kg dry	3.9	11/01/10	11/17/10	CLP SOM01.2 BS
95-48-7	2-Methylphenol	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
88-74-4	2-Nitroaniline	390	U	ug/kg dry	390	11/01/10	11/09/10	CLP SOM01.2 B
88-75-5	2-Nitrophenol	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
91-94-1	3,3'-Dichlorobenzidine	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
99-09-2	3-Nitroaniline	390	U	ug/kg dry	390	11/01/10	11/09/10	CLP SOM01.2 B
101-55-3	4-Bromophenyl phenyl ether	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
59-50-7	4-Chloro-3-methylphenol	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
106-47-8	4-Chloroaniline	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
7005-72-3	4-Chlorophenyl phenyl ether	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
100-01-6	4-Nitroaniline	390	U	ug/kg dry	390	11/01/10	11/09/10	CLP SOM01.2 B
100-02-7	4-Nitrophenol	390	U	ug/kg dry	390	11/01/10	11/09/10	CLP SOM01.2 B
83-32-9	Acenaphthene	3.9	U	ug/kg dry	3.9	11/01/10	11/17/10	CLP SOM01.2 BS
208-96-8	Acenaphthylene	13		ug/kg dry	3.9	11/01/10	11/17/10	CLP SOM01.2 BS
98-86-2	Acetophenone	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B



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Semi Volatile Organics

Project: 11-0019, Tronox Inc

Contract Lab Case: 40729

Sample ID: 12462CSFX

Lab ID: C104601-07

MD No:

Station ID: 12462C

Matrix: Surface Soil

D No: 6580 MITKEM

Date Collected: 10/26/10 11:45

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
120-12-7	Anthracene	17		ug/kg dry	3.9	11/01/10	11/17/10	CLP SOM01.2 BS
1912-24-9	Atrazine	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
100-52-7	Benzaldehyde	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
56-55-3	Benzo(a)anthracene	94		ug/kg dry	39	11/01/10	11/18/10	CLP SOM01.2 BS
50-32-8	Benzo(a)pyrene	87		ug/kg dry	39	11/01/10	11/18/10	CLP SOM01.2 BS
205-99-2	Benzo(b)fluoranthene	140		ug/kg dry	39	11/01/10	11/18/10	CLP SOM01.2 BS
191-24-2	Benzo(g,h,i)perylene	33	J, QC-2	ug/kg dry	3.9	11/01/10	11/17/10	CLP SOM01.2 BS
207-08-9	Benzo(k)fluoranthene	74		ug/kg dry	39	11/01/10	11/18/10	CLP SOM01.2 BS
85-68-7	Benzyl butyl phthalate	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
111-91-1	Bis(2-chloroethoxy)methane	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
111-44-4	bis(2-Chloroethyl) Ether	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
39638-32-9	Bis(2-chloroisopropyl) ether	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
117-81-7	Bis(2-ethylhexyl) phthalate	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
105-60-2	Caprolactam	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
86-74-8	Carbazole	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
218-01-9	Chrysene	100		ug/kg dry	39	11/01/10	11/18/10	CLP SOM01.2 BS
53-70-3	Dibenzo(a,h)anthracene	24		ug/kg dry	3.9	11/01/10	11/17/10	CLP SOM01.2 BS
132-64-9	Dibenzofuran	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
84-66-2	Diethyl phthalate	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
131-11-3	Dimethyl phthalate	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
84-74-2	Di-n-butylphthalate	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
117-84-0	Di-n-octylphthalate	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
206-44-0	Fluoranthene	140		ug/kg dry	39	11/01/10	11/18/10	CLP SOM01.2 BS
86-73-7	Fluorene	3.9	U	ug/kg dry	3.9	11/01/10	11/17/10	CLP SOM01.2 BS
118-74-1	Hexachlorobenzene (HCB)	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
87-68-3	Hexachlorobutadiene	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
67-72-1	Hexachloroethane	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
193-39-5	Indeno (1,2,3-cd) pyrene	56		ug/kg dry	39	11/01/10	11/18/10	CLP SOM01.2 BS
78-59-1	Isophorone	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
91-20-3	Naphthalene	4.1		ug/kg dry	3.9	11/01/10	11/17/10	CLP SOM01.2 BS



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0019

Project: 11-0019, Tronox Inc - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 11-0019, Tronox Inc

Contract Lab Case: 40729

Sample ID: 12462CSFX

Lab ID: C104601-07

MD No:

Station ID: 12462C

Matrix: Surface Soil

D No: 6580 MITKEM

Date Collected: 10/26/10 11:45

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
98-95-3	Nitrobenzene	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
621-64-7	n-Nitroso di-n-Propylamine	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
87-86-5	Pentachlorophenol	7.9	U, J, CLP16, QC-1	ug/kg dry	7.9	11/01/10	11/17/10	CLP SOM01.2 BS
85-01-8	Phenanthrene	58		ug/kg dry	39	11/01/10	11/18/10	CLP SOM01.2 BS
108-95-2	Phenol	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
129-00-0	Pyrene	140		ug/kg dry	39	11/01/10	11/18/10	CLP SOM01.2 BS

Tentatively Identified Compounds:

R4-6500	Petroleum Product:	N, CLP15				11/01/10	11/09/10	CLP SOM01.2 B
83-48-7	Stigmasterol	300	NJ, CLP15	ug/kg dry		11/01/10	11/09/10	CLP SOM01.2 B
1000214-20-7	Stigmasterol, 22,23-dihydro-	300	NJ, CLP15	ug/kg dry		11/01/10	11/09/10	CLP SOM01.2 B



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D.A.R.T. Id: 11-0019

Project: 11-0019, Tronox Inc - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 11-0019, Tronox Inc

Contract Lab Case: 40729

Sample ID: 12470ASF

Lab ID: C104601-08

MD No:

Station ID: 12470

Matrix: Surface Soil

D No: 6581 MITKEM

Date Collected: 10/26/10 14:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	11		%		11/01/10	11/09/10	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	190	U	ug/kg dry	190	11/01/10	11/09/10	CLP SOM01.2 B
92-52-4	1,1-Biphenyl	190	U	ug/kg dry	190	11/01/10	11/09/10	CLP SOM01.2 B
95-94-3	1,2,4,5-Tetrachlorobenzene	190	U	ug/kg dry	190	11/01/10	11/09/10	CLP SOM01.2 B
58-90-2	2,3,4,6-Tetrachlorophenol	190	U	ug/kg dry	190	11/01/10	11/09/10	CLP SOM01.2 B
95-95-4	2,4,5-Trichlorophenol	190	U	ug/kg dry	190	11/01/10	11/09/10	CLP SOM01.2 B
88-06-2	2,4,6-Trichlorophenol	190	U	ug/kg dry	190	11/01/10	11/09/10	CLP SOM01.2 B
120-83-2	2,4-Dichlorophenol	190	U	ug/kg dry	190	11/01/10	11/09/10	CLP SOM01.2 B
105-67-9	2,4-Dimethylphenol	190	U	ug/kg dry	190	11/01/10	11/09/10	CLP SOM01.2 B
51-28-5	2,4-Dinitrophenol	370	U, J, CLP16	ug/kg dry	370	11/01/10	11/09/10	CLP SOM01.2 B
121-14-2	2,4-Dinitrotoluene	190	U	ug/kg dry	190	11/01/10	11/09/10	CLP SOM01.2 B
606-20-2	2,6-Dinitrotoluene	190	U	ug/kg dry	190	11/01/10	11/09/10	CLP SOM01.2 B
91-58-7	2-Chloronaphthalene	190	U	ug/kg dry	190	11/01/10	11/09/10	CLP SOM01.2 B
95-57-8	2-Chlorophenol	190	U	ug/kg dry	190	11/01/10	11/09/10	CLP SOM01.2 B
534-52-1	2-Methyl-4,6-dinitrophenol	370	U	ug/kg dry	370	11/01/10	11/09/10	CLP SOM01.2 B
91-57-6	2-Methylnaphthalene	3.7	U	ug/kg dry	3.7	11/01/10	11/13/10	CLP SOM01.2 BS
95-48-7	2-Methylphenol	190	U	ug/kg dry	190	11/01/10	11/09/10	CLP SOM01.2 B
88-74-4	2-Nitroaniline	370	U	ug/kg dry	370	11/01/10	11/09/10	CLP SOM01.2 B
88-75-5	2-Nitrophenol	190	U	ug/kg dry	190	11/01/10	11/09/10	CLP SOM01.2 B
91-94-1	3,3'-Dichlorobenzidine	190	U	ug/kg dry	190	11/01/10	11/09/10	CLP SOM01.2 B
99-09-2	3-Nitroaniline	370	U	ug/kg dry	370	11/01/10	11/09/10	CLP SOM01.2 B
101-55-3	4-Bromophenyl phenyl ether	190	U	ug/kg dry	190	11/01/10	11/09/10	CLP SOM01.2 B
59-50-7	4-Chloro-3-methylphenol	190	U	ug/kg dry	190	11/01/10	11/09/10	CLP SOM01.2 B
106-47-8	4-Chloroaniline	190	U	ug/kg dry	190	11/01/10	11/09/10	CLP SOM01.2 B
7005-72-3	4-Chlorophenyl phenyl ether	190	U	ug/kg dry	190	11/01/10	11/09/10	CLP SOM01.2 B
100-01-6	4-Nitroaniline	370	U	ug/kg dry	370	11/01/10	11/09/10	CLP SOM01.2 B
100-02-7	4-Nitrophenol	370	U	ug/kg dry	370	11/01/10	11/09/10	CLP SOM01.2 B
83-32-9	Acenaphthene	5.3		ug/kg dry	3.7	11/01/10	11/13/10	CLP SOM01.2 BS
208-96-8	Acenaphthylene	650		ug/kg dry	190	11/01/10	11/09/10	CLP SOM01.2 B
98-86-2	Acetophenone	190	U	ug/kg dry	190	11/01/10	11/09/10	CLP SOM01.2 B



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D.A.R.T. Id: 11-0019

Project: 11-0019, Tronox Inc - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 11-0019, Tronox Inc

Contract Lab Case: 40729

Sample ID: 12470ASF

Lab ID: C104601-08

MD No:

Station ID: 12470

Matrix: Surface Soil

D No: 6581 MITKEM

Date Collected: 10/26/10 14:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
120-12-7	Anthracene	620		ug/kg dry	190	11/01/10	11/09/10	CLP SOM01.2 B
1912-24-9	Atrazine	190	U	ug/kg dry	190	11/01/10	11/09/10	CLP SOM01.2 B
100-52-7	Benzaldehyde	190	U	ug/kg dry	190	11/01/10	11/09/10	CLP SOM01.2 B
56-55-3	Benzo(a)anthracene	1500		ug/kg dry	190	11/01/10	11/09/10	CLP SOM01.2 B
50-32-8	Benzo(a)pyrene	1200		ug/kg dry	190	11/01/10	11/09/10	CLP SOM01.2 B
205-99-2	Benzo(b)fluoranthene	2400		ug/kg dry	190	11/01/10	11/09/10	CLP SOM01.2 B
191-24-2	Benzo(g,h,i)perylene	710		ug/kg dry	190	11/01/10	11/09/10	CLP SOM01.2 B
207-08-9	Benzo(k)fluoranthene	1100		ug/kg dry	190	11/01/10	11/09/10	CLP SOM01.2 B
85-68-7	Benzyl butyl phthalate	190	U	ug/kg dry	190	11/01/10	11/09/10	CLP SOM01.2 B
111-91-1	Bis(2-chloroethoxy)methane	190	U	ug/kg dry	190	11/01/10	11/09/10	CLP SOM01.2 B
111-44-4	bis(2-Chloroethyl) Ether	190	U	ug/kg dry	190	11/01/10	11/09/10	CLP SOM01.2 B
39638-32-9	Bis(2-chloroisopropyl) ether	190	U	ug/kg dry	190	11/01/10	11/09/10	CLP SOM01.2 B
117-81-7	Bis(2-ethylhexyl) phthalate	190	U	ug/kg dry	190	11/01/10	11/09/10	CLP SOM01.2 B
105-60-2	Caprolactam	190	U	ug/kg dry	190	11/01/10	11/09/10	CLP SOM01.2 B
86-74-8	Carbazole	140	J, CLP01	ug/kg dry	190	11/01/10	11/09/10	CLP SOM01.2 B
218-01-9	Chrysene	2100		ug/kg dry	190	11/01/10	11/09/10	CLP SOM01.2 B
53-70-3	Dibenzo(a,h)anthracene	280		ug/kg dry	190	11/01/10	11/09/10	CLP SOM01.2 B
132-64-9	Dibenzofuran	190	U	ug/kg dry	190	11/01/10	11/09/10	CLP SOM01.2 B
84-66-2	Diethyl phthalate	190	U	ug/kg dry	190	11/01/10	11/09/10	CLP SOM01.2 B
131-11-3	Dimethyl phthalate	190	U	ug/kg dry	190	11/01/10	11/09/10	CLP SOM01.2 B
84-74-2	Di-n-butylphthalate	190	U	ug/kg dry	190	11/01/10	11/09/10	CLP SOM01.2 B
117-84-0	Di-n-octylphthalate	190	U	ug/kg dry	190	11/01/10	11/09/10	CLP SOM01.2 B
206-44-0	Fluoranthene	2300		ug/kg dry	190	11/01/10	11/09/10	CLP SOM01.2 B
86-73-7	Fluorene	16		ug/kg dry	3.7	11/01/10	11/13/10	CLP SOM01.2 BS
118-74-1	Hexachlorobenzene (HCB)	190	U	ug/kg dry	190	11/01/10	11/09/10	CLP SOM01.2 B
87-68-3	Hexachlorobutadiene	190	U	ug/kg dry	190	11/01/10	11/09/10	CLP SOM01.2 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	190	U	ug/kg dry	190	11/01/10	11/09/10	CLP SOM01.2 B
67-72-1	Hexachloroethane	190	U	ug/kg dry	190	11/01/10	11/09/10	CLP SOM01.2 B
193-39-5	Indeno (1,2,3-cd) pyrene	880		ug/kg dry	190	11/01/10	11/09/10	CLP SOM01.2 B
78-59-1	Isophorone	190	U	ug/kg dry	190	11/01/10	11/09/10	CLP SOM01.2 B
91-20-3	Naphthalene	3.7		ug/kg dry	3.7	11/01/10	11/13/10	CLP SOM01.2 BS



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D.A.R.T. Id: 11-0019
Project: 11-0019, Tronox Inc - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 11-0019, Tronox Inc

Contract Lab Case: 40729

Sample ID: 12470ASF

Lab ID: C104601-08

MD No:

Station ID: 12470

Matrix: Surface Soil

D No: 6581 MITKEM

Date Collected: 10/26/10 14:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
98-95-3	Nitrobenzene	190	U	ug/kg dry	190	11/01/10	11/09/10	CLP SOM01.2 B
621-64-7	n-Nitroso di-n-Propylamine	190	U	ug/kg dry	190	11/01/10	11/09/10	CLP SOM01.2 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	190	U	ug/kg dry	190	11/01/10	11/09/10	CLP SOM01.2 B
87-86-5	Pentachlorophenol	200	J, CLP16, QC-1, QC-2	ug/kg dry	7.4	11/01/10	11/13/10	CLP SOM01.2 BS
85-01-8	Phenanthrene	160		ug/kg dry	18	11/01/10	11/20/10	CLP SOM01.2 BS
108-95-2	Phenol	190	U	ug/kg dry	190	11/01/10	11/09/10	CLP SOM01.2 B
129-00-0	Pyrene	2600		ug/kg dry	190	11/01/10	11/09/10	CLP SOM01.2 B
Tentatively Identified Compounds:								
83-47-6	.gamma.-Sitosterol	300	NJ, CLP15	ug/kg dry		11/01/10	11/09/10	CLP SOM01.2 B
192-97-2	Benzo[e]pyrene	800	NJ, CLP15	ug/kg dry		11/01/10	11/09/10	CLP SOM01.2 B
5737-13-3	Cyclopenta(def)phenanthrenone	200	NJ, CLP15	ug/kg dry		11/01/10	11/09/10	CLP SOM01.2 B
198-55-0	Perylene	1000	NJ, CLP15	ug/kg dry		11/01/10	11/09/10	CLP SOM01.2 B
R4-6500	Petroleum Product:		N, CLP15			11/01/10	11/09/10	CLP SOM01.2 B
3442-78-2	Pyrene, 2-methyl-	200	NJ, CLP15	ug/kg dry		11/01/10	11/09/10	CLP SOM01.2 B
83-48-7	Stigmasterol	300	NJ, CLP15	ug/kg dry		11/01/10	11/09/10	CLP SOM01.2 B
R4-6501	Unidentified Compound(s)	5000	J, CLP15	ug/kg dry		11/01/10	11/09/10	CLP SOM01.2 B



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Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0019

Project: 11-0019, Tronox Inc - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 11-0019, Tronox Inc

Contract Lab Case: 40729

Sample ID: 12484ASF

Lab ID: C104601-09

MD No:

Station ID: 12484

Matrix: Surface Soil

D No: 6570 MITKEM

Date Collected: 10/25/10 17:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	13		%		11/01/10	11/09/10	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	190	U	ug/kg dry	190	11/01/10	11/09/10	CLP SOM01.2 B
92-52-4	1,1-Biphenyl	190	U	ug/kg dry	190	11/01/10	11/09/10	CLP SOM01.2 B
95-94-3	1,2,4,5-Tetrachlorobenzene	190	U	ug/kg dry	190	11/01/10	11/09/10	CLP SOM01.2 B
58-90-2	2,3,4,6-Tetrachlorophenol	190	U	ug/kg dry	190	11/01/10	11/09/10	CLP SOM01.2 B
95-95-4	2,4,5-Trichlorophenol	190	U	ug/kg dry	190	11/01/10	11/09/10	CLP SOM01.2 B
88-06-2	2,4,6-Trichlorophenol	190	U	ug/kg dry	190	11/01/10	11/09/10	CLP SOM01.2 B
120-83-2	2,4-Dichlorophenol	190	U	ug/kg dry	190	11/01/10	11/09/10	CLP SOM01.2 B
105-67-9	2,4-Dimethylphenol	190	U	ug/kg dry	190	11/01/10	11/09/10	CLP SOM01.2 B
51-28-5	2,4-Dinitrophenol	380	U, J, CLP16	ug/kg dry	380	11/01/10	11/09/10	CLP SOM01.2 B
121-14-2	2,4-Dinitrotoluene	190	U	ug/kg dry	190	11/01/10	11/09/10	CLP SOM01.2 B
606-20-2	2,6-Dinitrotoluene	190	U	ug/kg dry	190	11/01/10	11/09/10	CLP SOM01.2 B
91-58-7	2-Chloronaphthalene	190	U	ug/kg dry	190	11/01/10	11/09/10	CLP SOM01.2 B
95-57-8	2-Chlorophenol	190	U	ug/kg dry	190	11/01/10	11/09/10	CLP SOM01.2 B
534-52-1	2-Methyl-4,6-dinitrophenol	380	U	ug/kg dry	380	11/01/10	11/09/10	CLP SOM01.2 B
91-57-6	2-Methylnaphthalene	3.8	U	ug/kg dry	3.8	11/01/10	11/13/10	CLP SOM01.2 BS
95-48-7	2-Methylphenol	190	U	ug/kg dry	190	11/01/10	11/09/10	CLP SOM01.2 B
88-74-4	2-Nitroaniline	380	U	ug/kg dry	380	11/01/10	11/09/10	CLP SOM01.2 B
88-75-5	2-Nitrophenol	190	U	ug/kg dry	190	11/01/10	11/09/10	CLP SOM01.2 B
91-94-1	3,3'-Dichlorobenzidine	190	U	ug/kg dry	190	11/01/10	11/09/10	CLP SOM01.2 B
99-09-2	3-Nitroaniline	380	U	ug/kg dry	380	11/01/10	11/09/10	CLP SOM01.2 B
101-55-3	4-Bromophenyl phenyl ether	190	U	ug/kg dry	190	11/01/10	11/09/10	CLP SOM01.2 B
59-50-7	4-Chloro-3-methylphenol	190	U	ug/kg dry	190	11/01/10	11/09/10	CLP SOM01.2 B
106-47-8	4-Chloroaniline	190	U	ug/kg dry	190	11/01/10	11/09/10	CLP SOM01.2 B
7005-72-3	4-Chlorophenyl phenyl ether	190	U	ug/kg dry	190	11/01/10	11/09/10	CLP SOM01.2 B
100-01-6	4-Nitroaniline	380	U	ug/kg dry	380	11/01/10	11/09/10	CLP SOM01.2 B
100-02-7	4-Nitrophenol	380	U	ug/kg dry	380	11/01/10	11/09/10	CLP SOM01.2 B
83-32-9	Acenaphthene	3.8	U	ug/kg dry	3.8	11/01/10	11/13/10	CLP SOM01.2 BS
208-96-8	Acenaphthylene	100	J, CLP01	ug/kg dry	190	11/01/10	11/09/10	CLP SOM01.2 B
98-86-2	Acetophenone	190	U	ug/kg dry	190	11/01/10	11/09/10	CLP SOM01.2 B



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D.A.R.T. Id: 11-0019

Project: 11-0019, Tronox Inc - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 11-0019, Tronox Inc

Contract Lab Case: 40729

Sample ID: 12484ASF

Lab ID: C104601-09

MD No:

Station ID: 12484

Matrix: Surface Soil

D No: 6570 MITKEM

Date Collected: 10/25/10 17:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
120-12-7	Anthracene	45		ug/kg dry	38	11/01/10	11/20/10	CLP SOM01.2 BS
1912-24-9	Atrazine	190	U	ug/kg dry	190	11/01/10	11/09/10	CLP SOM01.2 B
100-52-7	Benzaldehyde	190	U	ug/kg dry	190	11/01/10	11/09/10	CLP SOM01.2 B
56-55-3	Benzo(a)anthracene	15		ug/kg dry	38	11/01/10	11/20/10	CLP SOM01.2 BS
50-32-8	Benzo(a)pyrene	250		ug/kg dry	190	11/01/10	11/09/10	CLP SOM01.2 B
205-99-2	Benzo(b)fluoranthene	480		ug/kg dry	190	11/01/10	11/09/10	CLP SOM01.2 B
191-24-2	Benzo(g,h,i)perylene	190	J, CLP01	ug/kg dry	190	11/01/10	11/09/10	CLP SOM01.2 B
207-08-9	Benzo(k)fluoranthene	250		ug/kg dry	190	11/01/10	11/09/10	CLP SOM01.2 B
85-68-7	Benzyl butyl phthalate	190	U	ug/kg dry	190	11/01/10	11/09/10	CLP SOM01.2 B
111-91-1	Bis(2-chloroethoxy)methane	190	U	ug/kg dry	190	11/01/10	11/09/10	CLP SOM01.2 B
111-44-4	bis(2-Chloroethyl) Ether	190	U	ug/kg dry	190	11/01/10	11/09/10	CLP SOM01.2 B
39638-32-9	Bis(2-chloroisopropyl) ether	190	U	ug/kg dry	190	11/01/10	11/09/10	CLP SOM01.2 B
117-81-7	Bis(2-ethylhexyl) phthalate	310		ug/kg dry	190	11/01/10	11/09/10	CLP SOM01.2 B
105-60-2	Caprolactam	190	U	ug/kg dry	190	11/01/10	11/09/10	CLP SOM01.2 B
86-74-8	Carbazole	190	U	ug/kg dry	190	11/01/10	11/09/10	CLP SOM01.2 B
218-01-9	Chrysene	260		ug/kg dry	190	11/01/10	11/09/10	CLP SOM01.2 B
53-70-3	Dibenzo(a,h)anthracene	170	J, QI-1	ug/kg dry	38	11/01/10	11/20/10	CLP SOM01.2 BS
132-64-9	Dibenzofuran	190	U	ug/kg dry	190	11/01/10	11/09/10	CLP SOM01.2 B
84-66-2	Diethyl phthalate	190	U	ug/kg dry	190	11/01/10	11/09/10	CLP SOM01.2 B
131-11-3	Dimethyl phthalate	190	U	ug/kg dry	190	11/01/10	11/09/10	CLP SOM01.2 B
84-74-2	Di-n-butylphthalate	190	U	ug/kg dry	190	11/01/10	11/09/10	CLP SOM01.2 B
117-84-0	Di-n-octylphthalate	190	U	ug/kg dry	190	11/01/10	11/09/10	CLP SOM01.2 B
206-44-0	Fluoranthene	150		ug/kg dry	38	11/01/10	11/20/10	CLP SOM01.2 BS
86-73-7	Fluorene	3.8	U	ug/kg dry	3.8	11/01/10	11/13/10	CLP SOM01.2 BS
118-74-1	Hexachlorobenzene (HCB)	190	U	ug/kg dry	190	11/01/10	11/09/10	CLP SOM01.2 B
87-68-3	Hexachlorobutadiene	190	U	ug/kg dry	190	11/01/10	11/09/10	CLP SOM01.2 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	190	U	ug/kg dry	190	11/01/10	11/09/10	CLP SOM01.2 B
67-72-1	Hexachloroethane	190	U	ug/kg dry	190	11/01/10	11/09/10	CLP SOM01.2 B
193-39-5	Indeno (1,2,3-cd) pyrene	190	J, CLP01	ug/kg dry	190	11/01/10	11/09/10	CLP SOM01.2 B
78-59-1	Isophorone	190	U	ug/kg dry	190	11/01/10	11/09/10	CLP SOM01.2 B
91-20-3	Naphthalene	3.8	U	ug/kg dry	3.8	11/01/10	11/13/10	CLP SOM01.2 BS



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0019

Project: 11-0019, Tronox Inc - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 11-0019, Tronox Inc

Contract Lab Case: 40729

Sample ID: 12484ASF

Lab ID: C104601-09

MD No:

Station ID: 12484

Matrix: Surface Soil

D No: 6570 MITKEM

Date Collected: 10/25/10 17:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
98-95-3	Nitrobenzene	190	U	ug/kg dry	190	11/01/10	11/09/10	CLP SOM01.2 B
621-64-7	n-Nitroso di-n-Propylamine	190	U	ug/kg dry	190	11/01/10	11/09/10	CLP SOM01.2 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	190	U	ug/kg dry	190	11/01/10	11/09/10	CLP SOM01.2 B
87-86-5	Pentachlorophenol	7.5	J, CLP01, CLP16, QC-1, QC-2	ug/kg dry	7.7	11/01/10	11/13/10	CLP SOM01.2 BS
85-01-8	Phenanthrene	9.7		ug/kg dry	3.8	11/01/10	11/13/10	CLP SOM01.2 BS
108-95-2	Phenol	190	U	ug/kg dry	190	11/01/10	11/09/10	CLP SOM01.2 B
129-00-0	Pyrene	280		ug/kg dry	190	11/01/10	11/09/10	CLP SOM01.2 B
Tentatively Identified Compounds:								
83-47-6	.gamma.-Sitosterol	300	NJ, CLP15	ug/kg dry		11/01/10	11/09/10	CLP SOM01.2 B
205-82-3	Benzo[j]fluoranthene	300	NJ, CLP15	ug/kg dry		11/01/10	11/09/10	CLP SOM01.2 B
R4-6500	Petroleum Product:		N, CLP15			11/01/10	11/09/10	CLP SOM01.2 B
1058-61-3	Stigmast-4-en-3-one	200	NJ, CLP15	ug/kg dry		11/01/10	11/09/10	CLP SOM01.2 B
R4-6501	Unidentified Compound(s)	2000	J, CLP15	ug/kg dry		11/01/10	11/09/10	CLP SOM01.2 B



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D.A.R.T. Id: 11-0019

Project: 11-0019, Tronox Inc - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 11-0019, Tronox Inc

Contract Lab Case: 40729

Sample ID: 12486ASF

Lab ID: C104601-10

MD No:

Station ID: 12486

Matrix: Surface Soil

D No: 6571 MITKEM

Date Collected: 10/25/10 16:35

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	14		%		11/01/10	11/09/10	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
92-52-4	1,1-Biphenyl	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
95-94-3	1,2,4,5-Tetrachlorobenzene	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
58-90-2	2,3,4,6-Tetrachlorophenol	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
95-95-4	2,4,5-Trichlorophenol	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
88-06-2	2,4,6-Trichlorophenol	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
120-83-2	2,4-Dichlorophenol	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
105-67-9	2,4-Dimethylphenol	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
51-28-5	2,4-Dinitrophenol	380	U, J, CLP16	ug/kg dry	380	11/01/10	11/09/10	CLP SOM01.2 B
121-14-2	2,4-Dinitrotoluene	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
606-20-2	2,6-Dinitrotoluene	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
91-58-7	2-Chloronaphthalene	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
95-57-8	2-Chlorophenol	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
534-52-1	2-Methyl-4,6-dinitrophenol	380	U	ug/kg dry	380	11/01/10	11/09/10	CLP SOM01.2 B
91-57-6	2-Methylnaphthalene	3.8	U	ug/kg dry	3.8	11/01/10	11/17/10	CLP SOM01.2 BS
95-48-7	2-Methylphenol	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
88-74-4	2-Nitroaniline	380	U	ug/kg dry	380	11/01/10	11/09/10	CLP SOM01.2 B
88-75-5	2-Nitrophenol	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
91-94-1	3,3'-Dichlorobenzidine	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
99-09-2	3-Nitroaniline	380	U	ug/kg dry	380	11/01/10	11/09/10	CLP SOM01.2 B
101-55-3	4-Bromophenyl phenyl ether	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
59-50-7	4-Chloro-3-methylphenol	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
106-47-8	4-Chloroaniline	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
7005-72-3	4-Chlorophenyl phenyl ether	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
100-01-6	4-Nitroaniline	380	U	ug/kg dry	380	11/01/10	11/09/10	CLP SOM01.2 B
100-02-7	4-Nitrophenol	380	U	ug/kg dry	380	11/01/10	11/09/10	CLP SOM01.2 B
83-32-9	Acenaphthene	3.8	U	ug/kg dry	3.8	11/01/10	11/17/10	CLP SOM01.2 BS
208-96-8	Acenaphthylene	190	J, CLP01	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
98-86-2	Acetophenone	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B



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D.A.R.T. Id: 11-0019

Project: 11-0019, Tronox Inc - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 11-0019, Tronox Inc

Contract Lab Case: 40729

Sample ID: 12486ASF

Lab ID: C104601-10

MD No:

Station ID: 12486

Matrix: Surface Soil

D No: 6571 MITKEM

Date Collected: 10/25/10 16:35

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
120-12-7	Anthracene	220		ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
1912-24-9	Atrazine	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
100-52-7	Benzaldehyde	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
56-55-3	Benzo(a)anthracene	250		ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
50-32-8	Benzo(a)pyrene	310		ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
205-99-2	Benzo(b)fluoranthene	710		ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
191-24-2	Benzo(g,h,i)perylene	280		ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
207-08-9	Benzo(k)fluoranthene	250		ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
85-68-7	Benzyl butyl phthalate	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
111-91-1	Bis(2-chloroethoxy)methane	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
111-44-4	bis(2-Chloroethyl) Ether	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
39638-32-9	Bis(2-chloroisopropyl) ether	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
117-81-7	Bis(2-ethylhexyl) phthalate	450		ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
105-60-2	Caprolactam	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
86-74-8	Carbazole	86	J, CLP01	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
218-01-9	Chrysene	380		ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
53-70-3	Dibenzo(a,h)anthracene	92		ug/kg dry	38	11/01/10	11/18/10	CLP SOM01.2 BS
132-64-9	Dibenzofuran	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
84-66-2	Diethyl phthalate	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
131-11-3	Dimethyl phthalate	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
84-74-2	Di-n-butylphthalate	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
117-84-0	Di-n-octylphthalate	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
206-44-0	Fluoranthene	370		ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
86-73-7	Fluorene	5.9		ug/kg dry	3.8	11/01/10	11/17/10	CLP SOM01.2 BS
118-74-1	Hexachlorobenzene (HCB)	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
87-68-3	Hexachlorobutadiene	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
67-72-1	Hexachloroethane	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
193-39-5	Indeno (1,2,3-cd) pyrene	270		ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
78-59-1	Isophorone	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
91-20-3	Naphthalene	5.0		ug/kg dry	3.8	11/01/10	11/17/10	CLP SOM01.2 BS



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D.A.R.T. Id: 11-0019

Project: 11-0019, Tronox Inc - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 11-0019, Tronox Inc

Contract Lab Case: 40729

Sample ID: 12486ASF

Lab ID: C104601-10

MD No:

Station ID: 12486

Matrix: Surface Soil

D No: 6571 MITKEM

Date Collected: 10/25/10 16:35

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
98-95-3	Nitrobenzene	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
621-64-7	n-Nitroso di-n-Propylamine	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
87-86-5	Pentachlorophenol	53	J, CLP17, QC-1	ug/kg dry	38	11/01/10	11/18/10	CLP SOM01.2 BS
85-01-8	Phenanthrene	53		ug/kg dry	38	11/01/10	11/18/10	CLP SOM01.2 BS
108-95-2	Phenol	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
129-00-0	Pyrene	440		ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B

Tentatively Identified Compounds:

83-46-5	.beta.-Sitosterol	500	NJ, CLP15	ug/kg dry		11/01/10	11/09/10	CLP SOM01.2 B
192-97-2	Benzo[e]pyrene	300	NJ, CLP15	ug/kg dry		11/01/10	11/09/10	CLP SOM01.2 B
R4-6501	Unidentified Compound(s)	1000	J, CLP15	ug/kg dry		11/01/10	11/09/10	CLP SOM01.2 B



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D.A.R.T. Id: 11-0019

Project: 11-0019, Tronox Inc - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 11-0019, Tronox Inc

Contract Lab Case: 40729

Sample ID: 12490ASF

Lab ID: C104601-11

MD No:

Station ID: 12490

Matrix: Surface Soil

D No: 6572 MITKEM

Date Collected: 10/25/10 16:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	19		%		11/01/10	11/09/10	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	210	U	ug/kg dry	210	11/01/10	11/09/10	CLP SOM01.2 B
92-52-4	1,1-Biphenyl	210	U	ug/kg dry	210	11/01/10	11/09/10	CLP SOM01.2 B
95-94-3	1,2,4,5-Tetrachlorobenzene	210	U	ug/kg dry	210	11/01/10	11/09/10	CLP SOM01.2 B
58-90-2	2,3,4,6-Tetrachlorophenol	210	U	ug/kg dry	210	11/01/10	11/09/10	CLP SOM01.2 B
95-95-4	2,4,5-Trichlorophenol	210	U	ug/kg dry	210	11/01/10	11/09/10	CLP SOM01.2 B
88-06-2	2,4,6-Trichlorophenol	210	U	ug/kg dry	210	11/01/10	11/09/10	CLP SOM01.2 B
120-83-2	2,4-Dichlorophenol	210	U	ug/kg dry	210	11/01/10	11/09/10	CLP SOM01.2 B
105-67-9	2,4-Dimethylphenol	210	U	ug/kg dry	210	11/01/10	11/09/10	CLP SOM01.2 B
51-28-5	2,4-Dinitrophenol	400	U, J, CLP16	ug/kg dry	400	11/01/10	11/09/10	CLP SOM01.2 B
121-14-2	2,4-Dinitrotoluene	210	U	ug/kg dry	210	11/01/10	11/09/10	CLP SOM01.2 B
606-20-2	2,6-Dinitrotoluene	210	U	ug/kg dry	210	11/01/10	11/09/10	CLP SOM01.2 B
91-58-7	2-Chloronaphthalene	210	U	ug/kg dry	210	11/01/10	11/09/10	CLP SOM01.2 B
95-57-8	2-Chlorophenol	210	U	ug/kg dry	210	11/01/10	11/09/10	CLP SOM01.2 B
534-52-1	2-Methyl-4,6-dinitrophenol	400	U	ug/kg dry	400	11/01/10	11/09/10	CLP SOM01.2 B
91-57-6	2-Methylnaphthalene	4.0	U	ug/kg dry	4.0	11/01/10	11/17/10	CLP SOM01.2 BS
95-48-7	2-Methylphenol	210	U	ug/kg dry	210	11/01/10	11/09/10	CLP SOM01.2 B
88-74-4	2-Nitroaniline	400	U	ug/kg dry	400	11/01/10	11/09/10	CLP SOM01.2 B
88-75-5	2-Nitrophenol	210	U	ug/kg dry	210	11/01/10	11/09/10	CLP SOM01.2 B
91-94-1	3,3'-Dichlorobenzidine	210	U	ug/kg dry	210	11/01/10	11/09/10	CLP SOM01.2 B
99-09-2	3-Nitroaniline	400	U	ug/kg dry	400	11/01/10	11/09/10	CLP SOM01.2 B
101-55-3	4-Bromophenyl phenyl ether	210	U	ug/kg dry	210	11/01/10	11/09/10	CLP SOM01.2 B
59-50-7	4-Chloro-3-methylphenol	210	U	ug/kg dry	210	11/01/10	11/09/10	CLP SOM01.2 B
106-47-8	4-Chloroaniline	210	U	ug/kg dry	210	11/01/10	11/09/10	CLP SOM01.2 B
7005-72-3	4-Chlorophenyl phenyl ether	210	U	ug/kg dry	210	11/01/10	11/09/10	CLP SOM01.2 B
100-01-6	4-Nitroaniline	400	U	ug/kg dry	400	11/01/10	11/09/10	CLP SOM01.2 B
100-02-7	4-Nitrophenol	400	U	ug/kg dry	400	11/01/10	11/09/10	CLP SOM01.2 B
83-32-9	Acenaphthene	4.0	U	ug/kg dry	4.0	11/01/10	11/17/10	CLP SOM01.2 BS
208-96-8	Acenaphthylene	4.0	U	ug/kg dry	4.0	11/01/10	11/17/10	CLP SOM01.2 BS
98-86-2	Acetophenone	210	U	ug/kg dry	210	11/01/10	11/09/10	CLP SOM01.2 B



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D.A.R.T. Id: 11-0019

Project: 11-0019, Tronox Inc - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 11-0019, Tronox Inc

Contract Lab Case: 40729

Sample ID: 12490ASF

Lab ID: C104601-11

MD No:

Station ID: 12490

Matrix: Surface Soil

D No: 6572 MITKEM

Date Collected: 10/25/10 16:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
120-12-7	Anthracene	4.1		ug/kg dry	4.0	11/01/10	11/17/10	CLP SOM01.2 BS
1912-24-9	Atrazine	210	U	ug/kg dry	210	11/01/10	11/09/10	CLP SOM01.2 B
100-52-7	Benzaldehyde	210	U	ug/kg dry	210	11/01/10	11/09/10	CLP SOM01.2 B
56-55-3	Benzo(a)anthracene	6.7		ug/kg dry	4.0	11/01/10	11/17/10	CLP SOM01.2 BS
50-32-8	Benzo(a)pyrene	9.2		ug/kg dry	4.0	11/01/10	11/17/10	CLP SOM01.2 BS
205-99-2	Benzo(b)fluoranthene	27		ug/kg dry	4.0	11/01/10	11/17/10	CLP SOM01.2 BS
191-24-2	Benzo(g,h,i)perylene	12	J, QC-2	ug/kg dry	4.0	11/01/10	11/17/10	CLP SOM01.2 BS
207-08-9	Benzo(k)fluoranthene	11	J, QC-2	ug/kg dry	4.0	11/01/10	11/17/10	CLP SOM01.2 BS
85-68-7	Benzyl butyl phthalate	210	U	ug/kg dry	210	11/01/10	11/09/10	CLP SOM01.2 B
111-91-1	Bis(2-chloroethoxy)methane	210	U	ug/kg dry	210	11/01/10	11/09/10	CLP SOM01.2 B
111-44-4	bis(2-Chloroethyl) Ether	210	U	ug/kg dry	210	11/01/10	11/09/10	CLP SOM01.2 B
39638-32-9	Bis(2-chloroisopropyl) ether	210	U	ug/kg dry	210	11/01/10	11/09/10	CLP SOM01.2 B
117-81-7	Bis(2-ethylhexyl) phthalate	270		ug/kg dry	210	11/01/10	11/09/10	CLP SOM01.2 B
105-60-2	Caprolactam	210	U	ug/kg dry	210	11/01/10	11/09/10	CLP SOM01.2 B
86-74-8	Carbazole	210	U	ug/kg dry	210	11/01/10	11/09/10	CLP SOM01.2 B
218-01-9	Chrysene	14		ug/kg dry	4.0	11/01/10	11/17/10	CLP SOM01.2 BS
53-70-3	Dibenzo(a,h)anthracene	4.4		ug/kg dry	4.0	11/01/10	11/17/10	CLP SOM01.2 BS
132-64-9	Dibenzofuran	210	U	ug/kg dry	210	11/01/10	11/09/10	CLP SOM01.2 B
84-66-2	Diethyl phthalate	210	U	ug/kg dry	210	11/01/10	11/09/10	CLP SOM01.2 B
131-11-3	Dimethyl phthalate	210	U	ug/kg dry	210	11/01/10	11/09/10	CLP SOM01.2 B
84-74-2	Di-n-butylphthalate	210	U	ug/kg dry	210	11/01/10	11/09/10	CLP SOM01.2 B
117-84-0	Di-n-octylphthalate	210	U	ug/kg dry	210	11/01/10	11/09/10	CLP SOM01.2 B
206-44-0	Fluoranthene	12		ug/kg dry	4.0	11/01/10	11/17/10	CLP SOM01.2 BS
86-73-7	Fluorene	4.0	U	ug/kg dry	4.0	11/01/10	11/17/10	CLP SOM01.2 BS
118-74-1	Hexachlorobenzene (HCB)	210	U	ug/kg dry	210	11/01/10	11/09/10	CLP SOM01.2 B
87-68-3	Hexachlorobutadiene	210	U	ug/kg dry	210	11/01/10	11/09/10	CLP SOM01.2 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	210	U	ug/kg dry	210	11/01/10	11/09/10	CLP SOM01.2 B
67-72-1	Hexachloroethane	210	U	ug/kg dry	210	11/01/10	11/09/10	CLP SOM01.2 B
193-39-5	Indeno (1,2,3-cd) pyrene	12		ug/kg dry	4.0	11/01/10	11/17/10	CLP SOM01.2 BS
78-59-1	Isophorone	210	U	ug/kg dry	210	11/01/10	11/09/10	CLP SOM01.2 B
91-20-3	Naphthalene	4.0	U	ug/kg dry	4.0	11/01/10	11/17/10	CLP SOM01.2 BS



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 4 Science and Ecosystem Support Division
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0019
 Project: 11-0019, Tronox Inc - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 11-0019, Tronox Inc

Contract Lab Case: 40729

Sample ID: 12490ASF

Lab ID: C104601-11

MD No:

Station ID: 12490

Matrix: Surface Soil

D No: 6572 MITKEM

Date Collected: 10/25/10 16:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
98-95-3	Nitrobenzene	210	U	ug/kg dry	210	11/01/10	11/09/10	CLP SOM01.2 B
621-64-7	n-Nitroso di-n-Propylamine	210	U	ug/kg dry	210	11/01/10	11/09/10	CLP SOM01.2 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	210	U	ug/kg dry	210	11/01/10	11/09/10	CLP SOM01.2 B
87-86-5	Pentachlorophenol	4.3	J, CLP01, CLP16, QC-1	ug/kg dry	8.2	11/01/10	11/17/10	CLP SOM01.2 BS
85-01-8	Phenanthrene	4.0	U	ug/kg dry	4.0	11/01/10	11/17/10	CLP SOM01.2 BS
108-95-2	Phenol	210	U	ug/kg dry	210	11/01/10	11/09/10	CLP SOM01.2 B
129-00-0	Pyrene	16	J, QC-2	ug/kg dry	4.0	11/01/10	11/17/10	CLP SOM01.2 BS
Tentatively Identified Compounds:								
83-46-5	.beta.-Sitosterol	500	NJ, CLP15	ug/kg dry		11/01/10	11/09/10	CLP SOM01.2 B
474-77-1	Cholest-5-en-3-ol, (3.alpha.)-	300	NJ, CLP15	ug/kg dry		11/01/10	11/09/10	CLP SOM01.2 B
R4-6500	Petroleum Product:		N, CLP15			11/01/10	11/09/10	CLP SOM01.2 B
1058-61-3	Stigmast-4-en-3-one	200	NJ, CLP15	ug/kg dry		11/01/10	11/09/10	CLP SOM01.2 B
83-48-7	Stigmasterol	600	NJ, CLP15	ug/kg dry		11/01/10	11/09/10	CLP SOM01.2 B
R4-6501	Unidentified Compound(s)	2000	J, CLP15	ug/kg dry		11/01/10	11/09/10	CLP SOM01.2 B



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D.A.R.T. Id: 11-0019

Project: 11-0019, Tronox Inc - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 11-0019, Tronox Inc

Contract Lab Case: 40729

Sample ID: 12490ASFX

Lab ID: C104601-12

MD No:

Station ID: 12490

Matrix: Surface Soil

D No: 6573 MITKEM

Date Collected: 10/25/10 16:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	19		%		11/01/10	11/09/10	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	210	U	ug/kg dry	210	11/01/10	11/09/10	CLP SOM01.2 B
92-52-4	1,1-Biphenyl	210	U	ug/kg dry	210	11/01/10	11/09/10	CLP SOM01.2 B
95-94-3	1,2,4,5-Tetrachlorobenzene	210	U	ug/kg dry	210	11/01/10	11/09/10	CLP SOM01.2 B
58-90-2	2,3,4,6-Tetrachlorophenol	210	U	ug/kg dry	210	11/01/10	11/09/10	CLP SOM01.2 B
95-95-4	2,4,5-Trichlorophenol	210	U	ug/kg dry	210	11/01/10	11/09/10	CLP SOM01.2 B
88-06-2	2,4,6-Trichlorophenol	210	U	ug/kg dry	210	11/01/10	11/09/10	CLP SOM01.2 B
120-83-2	2,4-Dichlorophenol	210	U	ug/kg dry	210	11/01/10	11/09/10	CLP SOM01.2 B
105-67-9	2,4-Dimethylphenol	210	U	ug/kg dry	210	11/01/10	11/09/10	CLP SOM01.2 B
51-28-5	2,4-Dinitrophenol	400	U, J, CLP16	ug/kg dry	400	11/01/10	11/09/10	CLP SOM01.2 B
121-14-2	2,4-Dinitrotoluene	210	U	ug/kg dry	210	11/01/10	11/09/10	CLP SOM01.2 B
606-20-2	2,6-Dinitrotoluene	210	U	ug/kg dry	210	11/01/10	11/09/10	CLP SOM01.2 B
91-58-7	2-Chloronaphthalene	210	U	ug/kg dry	210	11/01/10	11/09/10	CLP SOM01.2 B
95-57-8	2-Chlorophenol	210	U	ug/kg dry	210	11/01/10	11/09/10	CLP SOM01.2 B
534-52-1	2-Methyl-4,6-dinitrophenol	400	U	ug/kg dry	400	11/01/10	11/09/10	CLP SOM01.2 B
91-57-6	2-Methylnaphthalene	4.0	U	ug/kg dry	4.0	11/01/10	11/17/10	CLP SOM01.2 BS
95-48-7	2-Methylphenol	210	U	ug/kg dry	210	11/01/10	11/09/10	CLP SOM01.2 B
88-74-4	2-Nitroaniline	400	U	ug/kg dry	400	11/01/10	11/09/10	CLP SOM01.2 B
88-75-5	2-Nitrophenol	210	U	ug/kg dry	210	11/01/10	11/09/10	CLP SOM01.2 B
91-94-1	3,3'-Dichlorobenzidine	210	U	ug/kg dry	210	11/01/10	11/09/10	CLP SOM01.2 B
99-09-2	3-Nitroaniline	400	U	ug/kg dry	400	11/01/10	11/09/10	CLP SOM01.2 B
101-55-3	4-Bromophenyl phenyl ether	210	U	ug/kg dry	210	11/01/10	11/09/10	CLP SOM01.2 B
59-50-7	4-Chloro-3-methylphenol	210	U	ug/kg dry	210	11/01/10	11/09/10	CLP SOM01.2 B
106-47-8	4-Chloroaniline	210	U	ug/kg dry	210	11/01/10	11/09/10	CLP SOM01.2 B
7005-72-3	4-Chlorophenyl phenyl ether	210	U	ug/kg dry	210	11/01/10	11/09/10	CLP SOM01.2 B
100-01-6	4-Nitroaniline	400	U	ug/kg dry	400	11/01/10	11/09/10	CLP SOM01.2 B
100-02-7	4-Nitrophenol	400	U	ug/kg dry	400	11/01/10	11/09/10	CLP SOM01.2 B
83-32-9	Acenaphthene	4.0	U	ug/kg dry	4.0	11/01/10	11/17/10	CLP SOM01.2 BS
208-96-8	Acenaphthylene	4.0	U	ug/kg dry	4.0	11/01/10	11/17/10	CLP SOM01.2 BS
98-86-2	Acetophenone	210	U	ug/kg dry	210	11/01/10	11/09/10	CLP SOM01.2 B



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D.A.R.T. Id: 11-0019

Project: 11-0019, Tronox Inc - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 11-0019, Tronox Inc

Contract Lab Case: 40729

Sample ID: 12490ASFX

Lab ID: C104601-12

MD No:

Station ID: 12490

Matrix: Surface Soil

D No: 6573 MITKEM

Date Collected: 10/25/10 16:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
120-12-7	Anthracene	4.0	U	ug/kg dry	4.0	11/01/10	11/17/10	CLP SOM01.2 BS
1912-24-9	Atrazine	210	U	ug/kg dry	210	11/01/10	11/09/10	CLP SOM01.2 B
100-52-7	Benzaldehyde	210	U	ug/kg dry	210	11/01/10	11/09/10	CLP SOM01.2 B
56-55-3	Benzo(a)anthracene	8.1		ug/kg dry	4.0	11/01/10	11/17/10	CLP SOM01.2 BS
50-32-8	Benzo(a)pyrene	10		ug/kg dry	4.0	11/01/10	11/17/10	CLP SOM01.2 BS
205-99-2	Benzo(b)fluoranthene	26		ug/kg dry	4.0	11/01/10	11/17/10	CLP SOM01.2 BS
191-24-2	Benzo(g,h,i)perylene	13	J, QC-2	ug/kg dry	4.0	11/01/10	11/17/10	CLP SOM01.2 BS
207-08-9	Benzo(k)fluoranthene	18	J, QC-2	ug/kg dry	4.0	11/01/10	11/17/10	CLP SOM01.2 BS
85-68-7	Benzyl butyl phthalate	210	U	ug/kg dry	210	11/01/10	11/09/10	CLP SOM01.2 B
111-91-1	Bis(2-chloroethoxy)methane	210	U	ug/kg dry	210	11/01/10	11/09/10	CLP SOM01.2 B
111-44-4	bis(2-Chloroethyl) Ether	210	U	ug/kg dry	210	11/01/10	11/09/10	CLP SOM01.2 B
39638-32-9	Bis(2-chloroisopropyl) ether	210	U	ug/kg dry	210	11/01/10	11/09/10	CLP SOM01.2 B
117-81-7	Bis(2-ethylhexyl) phthalate	280		ug/kg dry	210	11/01/10	11/09/10	CLP SOM01.2 B
105-60-2	Caprolactam	210	U	ug/kg dry	210	11/01/10	11/09/10	CLP SOM01.2 B
86-74-8	Carbazole	210	U	ug/kg dry	210	11/01/10	11/09/10	CLP SOM01.2 B
218-01-9	Chrysene	17		ug/kg dry	4.0	11/01/10	11/17/10	CLP SOM01.2 BS
53-70-3	Dibenzo(a,h)anthracene	4.0	U	ug/kg dry	4.0	11/01/10	11/17/10	CLP SOM01.2 BS
132-64-9	Dibenzofuran	210	U	ug/kg dry	210	11/01/10	11/09/10	CLP SOM01.2 B
84-66-2	Diethyl phthalate	210	U	ug/kg dry	210	11/01/10	11/09/10	CLP SOM01.2 B
131-11-3	Dimethyl phthalate	210	U	ug/kg dry	210	11/01/10	11/09/10	CLP SOM01.2 B
84-74-2	Di-n-butylphthalate	210	U	ug/kg dry	210	11/01/10	11/09/10	CLP SOM01.2 B
117-84-0	Di-n-octylphthalate	210	U	ug/kg dry	210	11/01/10	11/09/10	CLP SOM01.2 B
206-44-0	Fluoranthene	21		ug/kg dry	4.0	11/01/10	11/17/10	CLP SOM01.2 BS
86-73-7	Fluorene	4.0	U	ug/kg dry	4.0	11/01/10	11/17/10	CLP SOM01.2 BS
118-74-1	Hexachlorobenzene (HCB)	210	U	ug/kg dry	210	11/01/10	11/09/10	CLP SOM01.2 B
87-68-3	Hexachlorobutadiene	210	U	ug/kg dry	210	11/01/10	11/09/10	CLP SOM01.2 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	210	U	ug/kg dry	210	11/01/10	11/09/10	CLP SOM01.2 B
67-72-1	Hexachloroethane	210	U	ug/kg dry	210	11/01/10	11/09/10	CLP SOM01.2 B
193-39-5	Indeno (1,2,3-cd) pyrene	12		ug/kg dry	4.0	11/01/10	11/17/10	CLP SOM01.2 BS
78-59-1	Isophorone	210	U	ug/kg dry	210	11/01/10	11/09/10	CLP SOM01.2 B
91-20-3	Naphthalene	4.0	U	ug/kg dry	4.0	11/01/10	11/17/10	CLP SOM01.2 BS



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D.A.R.T. Id: 11-0019
 Project: 11-0019, Tronox Inc - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 11-0019, Tronox Inc

Contract Lab Case: 40729

Sample ID: 12490ASFX

Lab ID: C104601-12

MD No:

Station ID: 12490

Matrix: Surface Soil

D No: 6573 MITKEM

Date Collected: 10/25/10 16:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
98-95-3	Nitrobenzene	210	U	ug/kg dry	210	11/01/10	11/09/10	CLP SOM01.2 B
621-64-7	n-Nitroso di-n-Propylamine	210	U	ug/kg dry	210	11/01/10	11/09/10	CLP SOM01.2 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	210	U	ug/kg dry	210	11/01/10	11/09/10	CLP SOM01.2 B
87-86-5	Pentachlorophenol	8.2	U, J, CLP16, QC-1	ug/kg dry	8.2	11/01/10	11/17/10	CLP SOM01.2 BS
85-01-8	Phenanthrene	8.5		ug/kg dry	4.0	11/01/10	11/17/10	CLP SOM01.2 BS
108-95-2	Phenol	210	U	ug/kg dry	210	11/01/10	11/09/10	CLP SOM01.2 B
129-00-0	Pyrene	24	J, QC-2	ug/kg dry	4.0	11/01/10	11/17/10	CLP SOM01.2 BS
Tentatively Identified Compounds:								
474-62-4	Campesterol	500	NJ, CLP15	ug/kg dry		11/01/10	11/09/10	CLP SOM01.2 B
R4-6500	Petroleum Product:		N, CLP15			11/01/10	11/09/10	CLP SOM01.2 B
1058-61-3	Stigmast-4-en-3-one	200	NJ, CLP15	ug/kg dry		11/01/10	11/09/10	CLP SOM01.2 B
83-48-7	Stigmasterol	400	NJ, CLP15	ug/kg dry		11/01/10	11/09/10	CLP SOM01.2 B
1000214-20-7	Stigmasterol, 22,23-dihydro-	500	NJ, CLP15	ug/kg dry		11/01/10	11/09/10	CLP SOM01.2 B
R4-6501	Unidentified Compound(s)	2000	J, CLP15	ug/kg dry		11/01/10	11/09/10	CLP SOM01.2 B



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D.A.R.T. Id: 11-0019

Project: 11-0019, Tronox Inc - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 11-0019, Tronox Inc

Contract Lab Case: 40729

Sample ID: 12491ASF

Lab ID: C104601-13

MD No:

Station ID: 12491

Matrix: Surface Soil

D No: 6574 MITKEM

Date Collected: 10/26/10 9:05

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	16		%		11/01/10	11/09/10	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
92-52-4	1,1-Biphenyl	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
95-94-3	1,2,4,5-Tetrachlorobenzene	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
58-90-2	2,3,4,6-Tetrachlorophenol	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
95-95-4	2,4,5-Trichlorophenol	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
88-06-2	2,4,6-Trichlorophenol	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
120-83-2	2,4-Dichlorophenol	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
105-67-9	2,4-Dimethylphenol	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
51-28-5	2,4-Dinitrophenol	390	U, J, CLP16	ug/kg dry	390	11/01/10	11/09/10	CLP SOM01.2 B
121-14-2	2,4-Dinitrotoluene	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
606-20-2	2,6-Dinitrotoluene	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
91-58-7	2-Chloronaphthalene	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
95-57-8	2-Chlorophenol	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
534-52-1	2-Methyl-4,6-dinitrophenol	390	U	ug/kg dry	390	11/01/10	11/09/10	CLP SOM01.2 B
91-57-6	2-Methylnaphthalene	3.9	U	ug/kg dry	3.9	11/01/10	11/17/10	CLP SOM01.2 BS
95-48-7	2-Methylphenol	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
88-74-4	2-Nitroaniline	390	U	ug/kg dry	390	11/01/10	11/09/10	CLP SOM01.2 B
88-75-5	2-Nitrophenol	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
91-94-1	3,3'-Dichlorobenzidine	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
99-09-2	3-Nitroaniline	390	U	ug/kg dry	390	11/01/10	11/09/10	CLP SOM01.2 B
101-55-3	4-Bromophenyl phenyl ether	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
59-50-7	4-Chloro-3-methylphenol	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
106-47-8	4-Chloroaniline	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
7005-72-3	4-Chlorophenyl phenyl ether	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
100-01-6	4-Nitroaniline	390	U	ug/kg dry	390	11/01/10	11/09/10	CLP SOM01.2 B
100-02-7	4-Nitrophenol	390	U	ug/kg dry	390	11/01/10	11/09/10	CLP SOM01.2 B
83-32-9	Acenaphthene	3.9	U	ug/kg dry	3.9	11/01/10	11/17/10	CLP SOM01.2 BS
208-96-8	Acenaphthylene	3.9	U	ug/kg dry	3.9	11/01/10	11/17/10	CLP SOM01.2 BS
98-86-2	Acetophenone	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B



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D.A.R.T. Id: 11-0019

Project: 11-0019, Tronox Inc - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 11-0019, Tronox Inc

Contract Lab Case: 40729

Sample ID: 12491ASF

Lab ID: C104601-13

MD No:

Station ID: 12491

Matrix: Surface Soil

D No: 6574 MITKEM

Date Collected: 10/26/10 9:05

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
120-12-7	Anthracene	3.9	U	ug/kg dry	3.9	11/01/10	11/17/10	CLP SOM01.2 BS
1912-24-9	Atrazine	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
100-52-7	Benzaldehyde	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
56-55-3	Benzo(a)anthracene	5.0		ug/kg dry	3.9	11/01/10	11/17/10	CLP SOM01.2 BS
50-32-8	Benzo(a)pyrene	4.0		ug/kg dry	3.9	11/01/10	11/17/10	CLP SOM01.2 BS
205-99-2	Benzo(b)fluoranthene	17		ug/kg dry	3.9	11/01/10	11/17/10	CLP SOM01.2 BS
191-24-2	Benzo(g,h,i)perylene	7.8	J, QC-2	ug/kg dry	3.9	11/01/10	11/17/10	CLP SOM01.2 BS
207-08-9	Benzo(k)fluoranthene	11	J, QC-2	ug/kg dry	3.9	11/01/10	11/17/10	CLP SOM01.2 BS
85-68-7	Benzyl butyl phthalate	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
111-91-1	Bis(2-chloroethoxy)methane	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
111-44-4	bis(2-Chloroethyl) Ether	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
39638-32-9	Bis(2-chloroisopropyl) ether	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
117-81-7	Bis(2-ethylhexyl) phthalate	310		ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
105-60-2	Caprolactam	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
86-74-8	Carbazole	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
218-01-9	Chrysene	10		ug/kg dry	3.9	11/01/10	11/17/10	CLP SOM01.2 BS
53-70-3	Dibenzo(a,h)anthracene	3.9	U	ug/kg dry	3.9	11/01/10	11/17/10	CLP SOM01.2 BS
132-64-9	Dibenzofuran	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
84-66-2	Diethyl phthalate	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
131-11-3	Dimethyl phthalate	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
84-74-2	Di-n-butylphthalate	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
117-84-0	Di-n-octylphthalate	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
206-44-0	Fluoranthene	9.8		ug/kg dry	3.9	11/01/10	11/17/10	CLP SOM01.2 BS
86-73-7	Fluorene	3.9	U	ug/kg dry	3.9	11/01/10	11/17/10	CLP SOM01.2 BS
118-74-1	Hexachlorobenzene (HCB)	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
87-68-3	Hexachlorobutadiene	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
67-72-1	Hexachloroethane	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
193-39-5	Indeno (1,2,3-cd) pyrene	7.4		ug/kg dry	3.9	11/01/10	11/17/10	CLP SOM01.2 BS
78-59-1	Isophorone	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
91-20-3	Naphthalene	3.9	U	ug/kg dry	3.9	11/01/10	11/17/10	CLP SOM01.2 BS



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 4 Science and Ecosystem Support Division
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0019
 Project: 11-0019, Tronox Inc - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 11-0019, Tronox Inc

Contract Lab Case: 40729

Sample ID: 12491ASF

Lab ID: C104601-13

MD No:

Station ID: 12491

Matrix: Surface Soil

D No: 6574 MITKEM

Date Collected: 10/26/10 9:05

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
98-95-3	Nitrobenzene	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
621-64-7	n-Nitroso di-n-Propylamine	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
87-86-5	Pentachlorophenol	7.8	U, J, CLP16, QC-1	ug/kg dry	7.8	11/01/10	11/17/10	CLP SOM01.2 BS
85-01-8	Phenanthrene	3.9	U	ug/kg dry	3.9	11/01/10	11/17/10	CLP SOM01.2 BS
108-95-2	Phenol	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
129-00-0	Pyrene	13	J, QC-2	ug/kg dry	3.9	11/01/10	11/17/10	CLP SOM01.2 BS
Tentatively Identified Compounds:								
83-47-6	.gamma.-Sitosterol	600	NJ, CLP15	ug/kg dry		11/01/10	11/09/10	CLP SOM01.2 B
7785-70-8	1R-.alpha.-Pinene	300	NJ, CLP15	ug/kg dry		11/01/10	11/09/10	CLP SOM01.2 B
R4-6500	Petroleum Product:		N, CLP15			11/01/10	11/09/10	CLP SOM01.2 B
83-48-7	Stigmasterol	200	NJ, CLP15	ug/kg dry		11/01/10	11/09/10	CLP SOM01.2 B
R4-6501	Unidentified Compound(s)	2000	J, CLP15	ug/kg dry		11/01/10	11/09/10	CLP SOM01.2 B



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D.A.R.T. Id: 11-0019

Project: 11-0019, Tronox Inc - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 11-0019, Tronox Inc

Contract Lab Case: 40729

Sample ID: 12520ASF

Lab ID: C104601-14

MD No:

Station ID: 12520

Matrix: Surface Soil

D No: 6575 MITKEM

Date Collected: 10/26/10 9:20

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	14		%		11/01/10	11/09/10	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	190	U	ug/kg dry	190	11/01/10	11/09/10	CLP SOM01.2 B
92-52-4	1,1-Biphenyl	190	U	ug/kg dry	190	11/01/10	11/09/10	CLP SOM01.2 B
95-94-3	1,2,4,5-Tetrachlorobenzene	190	U	ug/kg dry	190	11/01/10	11/09/10	CLP SOM01.2 B
58-90-2	2,3,4,6-Tetrachlorophenol	190	U	ug/kg dry	190	11/01/10	11/09/10	CLP SOM01.2 B
95-95-4	2,4,5-Trichlorophenol	190	U	ug/kg dry	190	11/01/10	11/09/10	CLP SOM01.2 B
88-06-2	2,4,6-Trichlorophenol	190	U	ug/kg dry	190	11/01/10	11/09/10	CLP SOM01.2 B
120-83-2	2,4-Dichlorophenol	190	U	ug/kg dry	190	11/01/10	11/09/10	CLP SOM01.2 B
105-67-9	2,4-Dimethylphenol	190	U	ug/kg dry	190	11/01/10	11/09/10	CLP SOM01.2 B
51-28-5	2,4-Dinitrophenol	380	U, J, CLP16	ug/kg dry	380	11/01/10	11/09/10	CLP SOM01.2 B
121-14-2	2,4-Dinitrotoluene	190	U	ug/kg dry	190	11/01/10	11/09/10	CLP SOM01.2 B
606-20-2	2,6-Dinitrotoluene	190	U	ug/kg dry	190	11/01/10	11/09/10	CLP SOM01.2 B
91-58-7	2-Chloronaphthalene	190	U	ug/kg dry	190	11/01/10	11/09/10	CLP SOM01.2 B
95-57-8	2-Chlorophenol	190	U	ug/kg dry	190	11/01/10	11/09/10	CLP SOM01.2 B
534-52-1	2-Methyl-4,6-dinitrophenol	380	U	ug/kg dry	380	11/01/10	11/09/10	CLP SOM01.2 B
91-57-6	2-Methylnaphthalene	3.8	U	ug/kg dry	3.8	11/01/10	11/17/10	CLP SOM01.2 BS
95-48-7	2-Methylphenol	190	U	ug/kg dry	190	11/01/10	11/09/10	CLP SOM01.2 B
88-74-4	2-Nitroaniline	380	U	ug/kg dry	380	11/01/10	11/09/10	CLP SOM01.2 B
88-75-5	2-Nitrophenol	190	U	ug/kg dry	190	11/01/10	11/09/10	CLP SOM01.2 B
91-94-1	3,3'-Dichlorobenzidine	190	U, J, QS-4	ug/kg dry	190	11/01/10	11/09/10	CLP SOM01.2 B
99-09-2	3-Nitroaniline	380	U	ug/kg dry	380	11/01/10	11/09/10	CLP SOM01.2 B
101-55-3	4-Bromophenyl phenyl ether	190	U	ug/kg dry	190	11/01/10	11/09/10	CLP SOM01.2 B
59-50-7	4-Chloro-3-methylphenol	190	U	ug/kg dry	190	11/01/10	11/09/10	CLP SOM01.2 B
106-47-8	4-Chloroaniline	190	U, J, QS-4	ug/kg dry	190	11/01/10	11/09/10	CLP SOM01.2 B
7005-72-3	4-Chlorophenyl phenyl ether	190	U	ug/kg dry	190	11/01/10	11/09/10	CLP SOM01.2 B
100-01-6	4-Nitroaniline	380	U	ug/kg dry	380	11/01/10	11/09/10	CLP SOM01.2 B
100-02-7	4-Nitrophenol	380	U	ug/kg dry	380	11/01/10	11/09/10	CLP SOM01.2 B
83-32-9	Acenaphthene	3.8	U	ug/kg dry	3.8	11/01/10	11/17/10	CLP SOM01.2 BS
208-96-8	Acenaphthylene	3.8	U	ug/kg dry	3.8	11/01/10	11/17/10	CLP SOM01.2 BS
98-86-2	Acetophenone	190	U	ug/kg dry	190	11/01/10	11/09/10	CLP SOM01.2 B



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D.A.R.T. Id: 11-0019

Project: 11-0019, Tronox Inc - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 11-0019, Tronox Inc

Contract Lab Case: 40729

Sample ID: 12520ASF

Lab ID: C104601-14

MD No:

Station ID: 12520

Matrix: Surface Soil

D No: 6575 MITKEM

Date Collected: 10/26/10 9:20

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
120-12-7	Anthracene	4.2		ug/kg dry	3.8	11/01/10	11/17/10	CLP SOM01.2 BS
1912-24-9	Atrazine	190	U	ug/kg dry	190	11/01/10	11/09/10	CLP SOM01.2 B
100-52-7	Benzaldehyde	190	U	ug/kg dry	190	11/01/10	11/09/10	CLP SOM01.2 B
56-55-3	Benzo(a)anthracene	7.8		ug/kg dry	3.8	11/01/10	11/17/10	CLP SOM01.2 BS
50-32-8	Benzo(a)pyrene	11		ug/kg dry	3.8	11/01/10	11/17/10	CLP SOM01.2 BS
205-99-2	Benzo(b)fluoranthene	30		ug/kg dry	3.8	11/01/10	11/17/10	CLP SOM01.2 BS
191-24-2	Benzo(g,h,i)perylene	13	J, QC-2	ug/kg dry	3.8	11/01/10	11/17/10	CLP SOM01.2 BS
207-08-9	Benzo(k)fluoranthene	13	J, QC-2	ug/kg dry	3.8	11/01/10	11/17/10	CLP SOM01.2 BS
85-68-7	Benzyl butyl phthalate	190	U	ug/kg dry	190	11/01/10	11/09/10	CLP SOM01.2 B
111-91-1	Bis(2-chloroethoxy)methane	190	U	ug/kg dry	190	11/01/10	11/09/10	CLP SOM01.2 B
111-44-4	bis(2-Chloroethyl) Ether	190	U	ug/kg dry	190	11/01/10	11/09/10	CLP SOM01.2 B
39638-32-9	Bis(2-chloroisopropyl) ether	190	U	ug/kg dry	190	11/01/10	11/09/10	CLP SOM01.2 B
117-81-7	Bis(2-ethylhexyl) phthalate	320		ug/kg dry	190	11/01/10	11/09/10	CLP SOM01.2 B
105-60-2	Caprolactam	190	U	ug/kg dry	190	11/01/10	11/09/10	CLP SOM01.2 B
86-74-8	Carbazole	190	U	ug/kg dry	190	11/01/10	11/09/10	CLP SOM01.2 B
218-01-9	Chrysene	17		ug/kg dry	3.8	11/01/10	11/17/10	CLP SOM01.2 BS
53-70-3	Dibenzo(a,h)anthracene	4.3		ug/kg dry	3.8	11/01/10	11/17/10	CLP SOM01.2 BS
132-64-9	Dibenzofuran	190	U	ug/kg dry	190	11/01/10	11/09/10	CLP SOM01.2 B
84-66-2	Diethyl phthalate	190	U	ug/kg dry	190	11/01/10	11/09/10	CLP SOM01.2 B
131-11-3	Dimethyl phthalate	190	U	ug/kg dry	190	11/01/10	11/09/10	CLP SOM01.2 B
84-74-2	Di-n-butylphthalate	190	U	ug/kg dry	190	11/01/10	11/09/10	CLP SOM01.2 B
117-84-0	Di-n-octylphthalate	190	U	ug/kg dry	190	11/01/10	11/09/10	CLP SOM01.2 B
206-44-0	Fluoranthene	14		ug/kg dry	3.8	11/01/10	11/17/10	CLP SOM01.2 BS
86-73-7	Fluorene	3.8	U	ug/kg dry	3.8	11/01/10	11/17/10	CLP SOM01.2 BS
118-74-1	Hexachlorobenzene (HCB)	190	U	ug/kg dry	190	11/01/10	11/09/10	CLP SOM01.2 B
87-68-3	Hexachlorobutadiene	190	U	ug/kg dry	190	11/01/10	11/09/10	CLP SOM01.2 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	190	U, J, QS-4	ug/kg dry	190	11/01/10	11/09/10	CLP SOM01.2 B
67-72-1	Hexachloroethane	190	U	ug/kg dry	190	11/01/10	11/09/10	CLP SOM01.2 B
193-39-5	Indeno (1,2,3-cd) pyrene	13		ug/kg dry	3.8	11/01/10	11/17/10	CLP SOM01.2 BS
78-59-1	Isophorone	190	U	ug/kg dry	190	11/01/10	11/09/10	CLP SOM01.2 B
91-20-3	Naphthalene	3.8	U	ug/kg dry	3.8	11/01/10	11/17/10	CLP SOM01.2 BS



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 4 Science and Ecosystem Support Division
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0019
 Project: 11-0019, Tronox Inc - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 11-0019, Tronox Inc

Contract Lab Case: 40729

Sample ID: 12520ASF

Lab ID: C104601-14

MD No:

Station ID: 12520

Matrix: Surface Soil

D No: 6575 MITKEM

Date Collected: 10/26/10 9:20

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
98-95-3	Nitrobenzene	190	U	ug/kg dry	190	11/01/10	11/09/10	CLP SOM01.2 B
621-64-7	n-Nitroso di-n-Propylamine	190	U	ug/kg dry	190	11/01/10	11/09/10	CLP SOM01.2 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	190	U	ug/kg dry	190	11/01/10	11/09/10	CLP SOM01.2 B
87-86-5	Pentachlorophenol	7.7	U, J, CLP16, QC-1	ug/kg dry	7.7	11/01/10	11/17/10	CLP SOM01.2 BS
85-01-8	Phenanthrene	4.0		ug/kg dry	3.8	11/01/10	11/17/10	CLP SOM01.2 BS
108-95-2	Phenol	190	U	ug/kg dry	190	11/01/10	11/09/10	CLP SOM01.2 B
129-00-0	Pyrene	19	J, QC-2	ug/kg dry	3.8	11/01/10	11/17/10	CLP SOM01.2 BS
Tentatively Identified Compounds:								
83-47-6	.gamma.-Sitosterol	700	NJ, CLP15	ug/kg dry		11/01/10	11/09/10	CLP SOM01.2 B
20817-72-5	4,22-Stigmastadiene-3-one	300	NJ, CLP15	ug/kg dry		11/01/10	11/09/10	CLP SOM01.2 B
474-62-4	Campesterol	300	NJ, CLP15	ug/kg dry		11/01/10	11/09/10	CLP SOM01.2 B
559-74-0	Friedelan-3-one	1000	NJ, CLP15	ug/kg dry		11/01/10	11/09/10	CLP SOM01.2 B
R4-6500	Petroleum Product:		N, CLP15			11/01/10	11/09/10	CLP SOM01.2 B
1058-61-3	Stigmast-4-en-3-one	400	NJ, CLP15	ug/kg dry		11/01/10	11/09/10	CLP SOM01.2 B
83-48-7	Stigmasterol	500	NJ, CLP15	ug/kg dry		11/01/10	11/09/10	CLP SOM01.2 B
R4-6501	Unidentified Compound(s)	4000	J, CLP15	ug/kg dry		11/01/10	11/09/10	CLP SOM01.2 B



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D.A.R.T. Id: 11-0019

Project: 11-0019, Tronox Inc - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 11-0019, Tronox Inc

Contract Lab Case: 40729

Sample ID: 12522ASF

Lab ID: C104601-15

MD No:

Station ID: 12522

Matrix: Surface Soil

D No: 6576 MITKEM

Date Collected: 10/26/10 8:36

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	16		%		11/01/10	11/09/10	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
92-52-4	1,1-Biphenyl	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
95-94-3	1,2,4,5-Tetrachlorobenzene	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
58-90-2	2,3,4,6-Tetrachlorophenol	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
95-95-4	2,4,5-Trichlorophenol	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
88-06-2	2,4,6-Trichlorophenol	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
120-83-2	2,4-Dichlorophenol	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
105-67-9	2,4-Dimethylphenol	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
51-28-5	2,4-Dinitrophenol	390	U, J, CLP16	ug/kg dry	390	11/01/10	11/09/10	CLP SOM01.2 B
121-14-2	2,4-Dinitrotoluene	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
606-20-2	2,6-Dinitrotoluene	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
91-58-7	2-Chloronaphthalene	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
95-57-8	2-Chlorophenol	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
534-52-1	2-Methyl-4,6-dinitrophenol	390	U	ug/kg dry	390	11/01/10	11/09/10	CLP SOM01.2 B
91-57-6	2-Methylnaphthalene	3.9	U	ug/kg dry	3.9	11/01/10	11/17/10	CLP SOM01.2 BS
95-48-7	2-Methylphenol	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
88-74-4	2-Nitroaniline	390	U	ug/kg dry	390	11/01/10	11/09/10	CLP SOM01.2 B
88-75-5	2-Nitrophenol	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
91-94-1	3,3'-Dichlorobenzidine	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
99-09-2	3-Nitroaniline	390	U	ug/kg dry	390	11/01/10	11/09/10	CLP SOM01.2 B
101-55-3	4-Bromophenyl phenyl ether	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
59-50-7	4-Chloro-3-methylphenol	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
106-47-8	4-Chloroaniline	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
7005-72-3	4-Chlorophenyl phenyl ether	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
100-01-6	4-Nitroaniline	390	U	ug/kg dry	390	11/01/10	11/09/10	CLP SOM01.2 B
100-02-7	4-Nitrophenol	390	U	ug/kg dry	390	11/01/10	11/09/10	CLP SOM01.2 B
83-32-9	Acenaphthene	3.9	U	ug/kg dry	3.9	11/01/10	11/17/10	CLP SOM01.2 BS
208-96-8	Acenaphthylene	3.9	U	ug/kg dry	3.9	11/01/10	11/17/10	CLP SOM01.2 BS
98-86-2	Acetophenone	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B



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D.A.R.T. Id: 11-0019

Project: 11-0019, Tronox Inc - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 11-0019, Tronox Inc

Contract Lab Case: 40729

Sample ID: 12522ASF

Lab ID: C104601-15

MD No:

Station ID: 12522

Matrix: Surface Soil

D No: 6576 MITKEM

Date Collected: 10/26/10 8:36

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
120-12-7	Anthracene	5.5		ug/kg dry	3.9	11/01/10	11/17/10	CLP SOM01.2 BS
1912-24-9	Atrazine	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
100-52-7	Benzaldehyde	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
56-55-3	Benzo(a)anthracene	6.8		ug/kg dry	3.9	11/01/10	11/17/10	CLP SOM01.2 BS
50-32-8	Benzo(a)pyrene	14		ug/kg dry	3.9	11/01/10	11/17/10	CLP SOM01.2 BS
205-99-2	Benzo(b)fluoranthene	35		ug/kg dry	3.9	11/01/10	11/17/10	CLP SOM01.2 BS
191-24-2	Benzo(g,h,i)perylene	17	J, QC-2	ug/kg dry	3.9	11/01/10	11/17/10	CLP SOM01.2 BS
207-08-9	Benzo(k)fluoranthene	16	J, QC-2	ug/kg dry	3.9	11/01/10	11/17/10	CLP SOM01.2 BS
85-68-7	Benzyl butyl phthalate	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
111-91-1	Bis(2-chloroethoxy)methane	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
111-44-4	bis(2-Chloroethyl) Ether	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
39638-32-9	Bis(2-chloroisopropyl) ether	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
117-81-7	Bis(2-ethylhexyl) phthalate	250		ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
105-60-2	Caprolactam	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
86-74-8	Carbazole	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
218-01-9	Chrysene	15		ug/kg dry	3.9	11/01/10	11/17/10	CLP SOM01.2 BS
53-70-3	Dibenzo(a,h)anthracene	5.3		ug/kg dry	3.9	11/01/10	11/17/10	CLP SOM01.2 BS
132-64-9	Dibenzofuran	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
84-66-2	Diethyl phthalate	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
131-11-3	Dimethyl phthalate	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
84-74-2	Di-n-butylphthalate	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
117-84-0	Di-n-octylphthalate	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
206-44-0	Fluoranthene	16		ug/kg dry	3.9	11/01/10	11/17/10	CLP SOM01.2 BS
86-73-7	Fluorene	3.9	U	ug/kg dry	3.9	11/01/10	11/17/10	CLP SOM01.2 BS
118-74-1	Hexachlorobenzene (HCB)	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
87-68-3	Hexachlorobutadiene	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
67-72-1	Hexachloroethane	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
193-39-5	Indeno (1,2,3-cd) pyrene	16		ug/kg dry	3.9	11/01/10	11/17/10	CLP SOM01.2 BS
78-59-1	Isophorone	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
91-20-3	Naphthalene	3.9	U	ug/kg dry	3.9	11/01/10	11/17/10	CLP SOM01.2 BS



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 4 Science and Ecosystem Support Division
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D.A.R.T. Id: 11-0019
 Project: 11-0019, Tronox Inc - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 11-0019, Tronox Inc

Contract Lab Case: 40729

Sample ID: 12522ASF

Lab ID: C104601-15

MD No:

Station ID: 12522

Matrix: Surface Soil

D No: 6576 MITKEM

Date Collected: 10/26/10 8:36

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
98-95-3	Nitrobenzene	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
621-64-7	n-Nitroso di-n-Propylamine	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
87-86-5	Pentachlorophenol	7.8	U, J, CLP16, QC-1	ug/kg dry	7.8	11/01/10	11/17/10	CLP SOM01.2 BS
85-01-8	Phenanthrene	5.8		ug/kg dry	3.9	11/01/10	11/17/10	CLP SOM01.2 BS
108-95-2	Phenol	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B
129-00-0	Pyrene	17	J, QC-2	ug/kg dry	3.9	11/01/10	11/17/10	CLP SOM01.2 BS
Tentatively Identified Compounds:								
83-47-6	.gamma.-Sitosterol	2000	NJ, CLP15	ug/kg dry		11/01/10	11/09/10	CLP SOM01.2 B
3133-01-5	1-Tricosanol	200	NJ, CLP15	ug/kg dry		11/01/10	11/09/10	CLP SOM01.2 B
20817-72-5	4,22-Stigmastadiene-3-one	300	NJ, CLP15	ug/kg dry		11/01/10	11/09/10	CLP SOM01.2 B
474-62-4	Campesterol	400	NJ, CLP15	ug/kg dry		11/01/10	11/09/10	CLP SOM01.2 B
R4-6500	Petroleum Product:		N, CLP15			11/01/10	11/09/10	CLP SOM01.2 B
1058-61-3	Stigmast-4-en-3-one	1000	NJ, CLP15	ug/kg dry		11/01/10	11/09/10	CLP SOM01.2 B
107304-12-1	Stigmastan-6,22-dien, 3,5-dedihydro-	600	NJ, CLP15	ug/kg dry		11/01/10	11/09/10	CLP SOM01.2 B
R4-6501	Unidentified Compound(s)	8000	J, CLP15	ug/kg dry		11/01/10	11/09/10	CLP SOM01.2 B



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D.A.R.T. Id: 11-0019

Project: 11-0019, Tronox Inc - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 11-0019, Tronox Inc

Contract Lab Case: 40729

Sample ID: 12621ASF

Lab ID: C104601-16

MD No:

Station ID: 12621

Matrix: Surface Soil

D No: 6585 MITKEM

Date Collected: 10/26/10 10:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	13		%		11/03/10	11/10/10	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	200	U	ug/kg dry	200	11/03/10	11/10/10	CLP SOM01.2 B
92-52-4	1,1-Biphenyl	200	U	ug/kg dry	200	11/03/10	11/10/10	CLP SOM01.2 B
95-94-3	1,2,4,5-Tetrachlorobenzene	200	U	ug/kg dry	200	11/03/10	11/10/10	CLP SOM01.2 B
58-90-2	2,3,4,6-Tetrachlorophenol	200	U	ug/kg dry	200	11/03/10	11/10/10	CLP SOM01.2 B
95-95-4	2,4,5-Trichlorophenol	200	U	ug/kg dry	200	11/03/10	11/10/10	CLP SOM01.2 B
88-06-2	2,4,6-Trichlorophenol	200	U	ug/kg dry	200	11/03/10	11/10/10	CLP SOM01.2 B
120-83-2	2,4-Dichlorophenol	200	U	ug/kg dry	200	11/03/10	11/10/10	CLP SOM01.2 B
105-67-9	2,4-Dimethylphenol	200	U, J, QC-1	ug/kg dry	200	11/03/10	11/10/10	CLP SOM01.2 B
51-28-5	2,4-Dinitrophenol	380	U, J, CLP16, QC-1	ug/kg dry	380	11/03/10	11/10/10	CLP SOM01.2 B
121-14-2	2,4-Dinitrotoluene	200	U	ug/kg dry	200	11/03/10	11/10/10	CLP SOM01.2 B
606-20-2	2,6-Dinitrotoluene	200	U	ug/kg dry	200	11/03/10	11/10/10	CLP SOM01.2 B
91-58-7	2-Chloronaphthalene	200	U	ug/kg dry	200	11/03/10	11/10/10	CLP SOM01.2 B
95-57-8	2-Chlorophenol	200	U	ug/kg dry	200	11/03/10	11/10/10	CLP SOM01.2 B
534-52-1	2-Methyl-4,6-dinitrophenol	380	U	ug/kg dry	380	11/03/10	11/10/10	CLP SOM01.2 B
91-57-6	2-Methylnaphthalene	4.3		ug/kg dry	3.8	11/03/10	11/16/10	CLP SOM01.2 BS
95-48-7	2-Methylphenol	200	U	ug/kg dry	200	11/03/10	11/10/10	CLP SOM01.2 B
88-74-4	2-Nitroaniline	380	U	ug/kg dry	380	11/03/10	11/10/10	CLP SOM01.2 B
88-75-5	2-Nitrophenol	200	U	ug/kg dry	200	11/03/10	11/10/10	CLP SOM01.2 B
91-94-1	3,3'-Dichlorobenzidine	200	U, J, QS-4	ug/kg dry	200	11/03/10	11/10/10	CLP SOM01.2 B
99-09-2	3-Nitroaniline	380	U	ug/kg dry	380	11/03/10	11/10/10	CLP SOM01.2 B
101-55-3	4-Bromophenyl phenyl ether	200	U	ug/kg dry	200	11/03/10	11/10/10	CLP SOM01.2 B
59-50-7	4-Chloro-3-methylphenol	200	U	ug/kg dry	200	11/03/10	11/10/10	CLP SOM01.2 B
106-47-8	4-Chloroaniline	200	U, J, QS-4	ug/kg dry	200	11/03/10	11/10/10	CLP SOM01.2 B
7005-72-3	4-Chlorophenyl phenyl ether	200	U	ug/kg dry	200	11/03/10	11/10/10	CLP SOM01.2 B
100-01-6	4-Nitroaniline	380	U, J, QC-1	ug/kg dry	380	11/03/10	11/10/10	CLP SOM01.2 B
100-02-7	4-Nitrophenol	380	U	ug/kg dry	380	11/03/10	11/10/10	CLP SOM01.2 B
83-32-9	Acenaphthene	4.2		ug/kg dry	3.8	11/03/10	11/16/10	CLP SOM01.2 BS
208-96-8	Acenaphthylene	13		ug/kg dry	3.8	11/03/10	11/16/10	CLP SOM01.2 BS



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D.A.R.T. Id: 11-0019
Project: 11-0019, Tronox Inc - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 11-0019, Tronox Inc

Contract Lab Case: 40729

Sample ID: 12621ASF

Lab ID: C104601-16

MD No:

Station ID: 12621

Matrix: Surface Soil

D No: 6585 MITKEM

Date Collected: 10/26/10 10:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
98-86-2	Acetophenone	200	U	ug/kg dry	200	11/03/10	11/10/10	CLP SOM01.2 B
120-12-7	Anthracene	20		ug/kg dry	3.8	11/03/10	11/16/10	CLP SOM01.2 BS
1912-24-9	Atrazine	200	U	ug/kg dry	200	11/03/10	11/10/10	CLP SOM01.2 B
100-52-7	Benzaldehyde	200	U	ug/kg dry	200	11/03/10	11/10/10	CLP SOM01.2 B
56-55-3	Benzo(a)anthracene	66		ug/kg dry	38	11/03/10	11/16/10	CLP SOM01.2 BS
50-32-8	Benzo(a)pyrene	100		ug/kg dry	38	11/03/10	11/16/10	CLP SOM01.2 BS
205-99-2	Benzo(b)fluoranthene	190		ug/kg dry	38	11/03/10	11/16/10	CLP SOM01.2 BS
191-24-2	Benzo(g,h,i)perylene	73		ug/kg dry	38	11/03/10	11/16/10	CLP SOM01.2 BS
207-08-9	Benzo(k)fluoranthene	83	J, QC-2	ug/kg dry	38	11/03/10	11/16/10	CLP SOM01.2 BS
85-68-7	Benzyl butyl phthalate	200	U	ug/kg dry	200	11/03/10	11/10/10	CLP SOM01.2 B
111-91-1	Bis(2-chloroethoxy)methane	200	U	ug/kg dry	200	11/03/10	11/10/10	CLP SOM01.2 B
111-44-4	bis(2-Chloroethyl) Ether	200	U	ug/kg dry	200	11/03/10	11/10/10	CLP SOM01.2 B
39638-32-9	Bis(2-chloroisopropyl) ether	200	U	ug/kg dry	200	11/03/10	11/10/10	CLP SOM01.2 B
117-81-7	Bis(2-ethylhexyl) phthalate	200	U	ug/kg dry	200	11/03/10	11/10/10	CLP SOM01.2 B
105-60-2	Caprolactam	200	U	ug/kg dry	200	11/03/10	11/10/10	CLP SOM01.2 B
86-74-8	Carbazole	200	U	ug/kg dry	200	11/03/10	11/10/10	CLP SOM01.2 B
218-01-9	Chrysene	120		ug/kg dry	38	11/03/10	11/16/10	CLP SOM01.2 BS
53-70-3	Dibenzo(a,h)anthracene	16		ug/kg dry	3.8	11/03/10	11/16/10	CLP SOM01.2 BS
132-64-9	Dibenzofuran	200	U	ug/kg dry	200	11/03/10	11/10/10	CLP SOM01.2 B
84-66-2	Diethyl phthalate	200	U	ug/kg dry	200	11/03/10	11/10/10	CLP SOM01.2 B
131-11-3	Dimethyl phthalate	200	U	ug/kg dry	200	11/03/10	11/10/10	CLP SOM01.2 B
84-74-2	Di-n-butylphthalate	200	U	ug/kg dry	200	11/03/10	11/10/10	CLP SOM01.2 B
117-84-0	Di-n-octylphthalate	200	U	ug/kg dry	200	11/03/10	11/10/10	CLP SOM01.2 B
206-44-0	Fluoranthene	210		ug/kg dry	38	11/03/10	11/16/10	CLP SOM01.2 BS
86-73-7	Fluorene	3.8	U	ug/kg dry	3.8	11/03/10	11/16/10	CLP SOM01.2 BS
118-74-1	Hexachlorobenzene (HCB)	200	U	ug/kg dry	200	11/03/10	11/10/10	CLP SOM01.2 B
87-68-3	Hexachlorobutadiene	200	U	ug/kg dry	200	11/03/10	11/10/10	CLP SOM01.2 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	200	U, J, QS-4	ug/kg dry	200	11/03/10	11/10/10	CLP SOM01.2 B
67-72-1	Hexachloroethane	200	U	ug/kg dry	200	11/03/10	11/10/10	CLP SOM01.2 B
193-39-5	Indeno (1,2,3-cd) pyrene	70		ug/kg dry	38	11/03/10	11/16/10	CLP SOM01.2 BS
78-59-1	Isophorone	200	U	ug/kg dry	200	11/03/10	11/10/10	CLP SOM01.2 B



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D.A.R.T. Id: 11-0019
 Project: 11-0019, Tronox Inc - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 11-0019, Tronox Inc

Contract Lab Case: 40729

Sample ID: 12621ASF

Lab ID: C104601-16

MD No:

Station ID: 12621

Matrix: Surface Soil

D No: 6585 MITKEM

Date Collected: 10/26/10 10:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
91-20-3	Naphthalene	11		ug/kg dry	3.8	11/03/10	11/16/10	CLP SOM01.2 BS
98-95-3	Nitrobenzene	200	U	ug/kg dry	200	11/03/10	11/10/10	CLP SOM01.2 B
621-64-7	n-Nitroso di-n-Propylamine	200	U, J, QM-1	ug/kg dry	200	11/03/10	11/10/10	CLP SOM01.2 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	200	U	ug/kg dry	200	11/03/10	11/10/10	CLP SOM01.2 B
87-86-5	Pentachlorophenol	7.7	U, J, CLP16, QC-1	ug/kg dry	7.7	11/03/10	11/16/10	CLP SOM01.2 BS
85-01-8	Phenanthrene	130		ug/kg dry	38	11/03/10	11/16/10	CLP SOM01.2 BS
108-95-2	Phenol	200	U	ug/kg dry	200	11/03/10	11/10/10	CLP SOM01.2 B
129-00-0	Pyrene	210	J, QC-2	ug/kg dry	38	11/03/10	11/16/10	CLP SOM01.2 BS
Tentatively Identified Compounds:								
R4-6501	Unidentified Compound(s)	900	J, CLP15	ug/kg dry		11/03/10	11/10/10	CLP SOM01.2 B



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D.A.R.T. Id: 11-0019

Project: 11-0019, Tronox Inc - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 11-0019, Tronox Inc

Contract Lab Case: 40729

Sample ID: 12622ASF

Lab ID: C104601-17

MD No:

Station ID: 12622

Matrix: Surface Soil

D No: 65B2 MITKEM

Date Collected: 10/26/10 9:45

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	14		%		11/04/10	11/09/10	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	200	U	ug/kg dry	200	11/04/10	11/09/10	CLP SOM01.2 B
92-52-4	1,1-Biphenyl	200	U	ug/kg dry	200	11/04/10	11/09/10	CLP SOM01.2 B
95-94-3	1,2,4,5-Tetrachlorobenzene	200	U	ug/kg dry	200	11/04/10	11/09/10	CLP SOM01.2 B
58-90-2	2,3,4,6-Tetrachlorophenol	200	U	ug/kg dry	200	11/04/10	11/09/10	CLP SOM01.2 B
95-95-4	2,4,5-Trichlorophenol	200	U	ug/kg dry	200	11/04/10	11/09/10	CLP SOM01.2 B
88-06-2	2,4,6-Trichlorophenol	200	U	ug/kg dry	200	11/04/10	11/09/10	CLP SOM01.2 B
120-83-2	2,4-Dichlorophenol	200	U	ug/kg dry	200	11/04/10	11/09/10	CLP SOM01.2 B
105-67-9	2,4-Dimethylphenol	200	U, J, QC-1	ug/kg dry	200	11/04/10	11/09/10	CLP SOM01.2 B
51-28-5	2,4-Dinitrophenol	380	U, J, QC-1, CLP16	ug/kg dry	380	11/04/10	11/09/10	CLP SOM01.2 B
121-14-2	2,4-Dinitrotoluene	200	U	ug/kg dry	200	11/04/10	11/09/10	CLP SOM01.2 B
606-20-2	2,6-Dinitrotoluene	200	U	ug/kg dry	200	11/04/10	11/09/10	CLP SOM01.2 B
91-58-7	2-Chloronaphthalene	200	U	ug/kg dry	200	11/04/10	11/09/10	CLP SOM01.2 B
95-57-8	2-Chlorophenol	200	U	ug/kg dry	200	11/04/10	11/09/10	CLP SOM01.2 B
534-52-1	2-Methyl-4,6-dinitrophenol	380	U, J, QC-1	ug/kg dry	380	11/04/10	11/09/10	CLP SOM01.2 B
91-57-6	2-Methylnaphthalene	9.6		ug/kg dry	3.8	11/04/10	11/15/10	CLP SOM01.2 BS
95-48-7	2-Methylphenol	200	U	ug/kg dry	200	11/04/10	11/09/10	CLP SOM01.2 B
88-74-4	2-Nitroaniline	380	U	ug/kg dry	380	11/04/10	11/09/10	CLP SOM01.2 B
88-75-5	2-Nitrophenol	200	U	ug/kg dry	200	11/04/10	11/09/10	CLP SOM01.2 B
91-94-1	3,3'-Dichlorobenzidine	200	U	ug/kg dry	200	11/04/10	11/09/10	CLP SOM01.2 B
99-09-2	3-Nitroaniline	380	U	ug/kg dry	380	11/04/10	11/09/10	CLP SOM01.2 B
101-55-3	4-Bromophenyl phenyl ether	200	U	ug/kg dry	200	11/04/10	11/09/10	CLP SOM01.2 B
59-50-7	4-Chloro-3-methylphenol	200	U	ug/kg dry	200	11/04/10	11/09/10	CLP SOM01.2 B
106-47-8	4-Chloroaniline	200	U	ug/kg dry	200	11/04/10	11/09/10	CLP SOM01.2 B
7005-72-3	4-Chlorophenyl phenyl ether	200	U	ug/kg dry	200	11/04/10	11/09/10	CLP SOM01.2 B
100-01-6	4-Nitroaniline	380	U	ug/kg dry	380	11/04/10	11/09/10	CLP SOM01.2 B
100-02-7	4-Nitrophenol	380	U	ug/kg dry	380	11/04/10	11/09/10	CLP SOM01.2 B
83-32-9	Acenaphthene	3.8	U	ug/kg dry	3.8	11/04/10	11/15/10	CLP SOM01.2 BS
208-96-8	Acenaphthylene	9.4		ug/kg dry	3.8	11/04/10	11/15/10	CLP SOM01.2 BS



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D.A.R.T. Id: 11-0019
 Project: 11-0019, Tronox Inc - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 11-0019, Tronox Inc

Contract Lab Case: 40729

Sample ID: 12622ASF

Lab ID: C104601-17

MD No:

Station ID: 12622

Matrix: Surface Soil

D No: 65B2 MITKEM

Date Collected: 10/26/10 9:45

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
98-86-2	Acetophenone	200	U	ug/kg dry	200	11/04/10	11/09/10	CLP SOM01.2 B
120-12-7	Anthracene	10		ug/kg dry	3.8	11/04/10	11/15/10	CLP SOM01.2 BS
1912-24-9	Atrazine	200	U	ug/kg dry	200	11/04/10	11/09/10	CLP SOM01.2 B
100-52-7	Benzaldehyde	200	U	ug/kg dry	200	11/04/10	11/09/10	CLP SOM01.2 B
56-55-3	Benzo(a)anthracene	48		ug/kg dry	38	11/04/10	11/15/10	CLP SOM01.2 BS
50-32-8	Benzo(a)pyrene	64		ug/kg dry	38	11/04/10	11/15/10	CLP SOM01.2 BS
205-99-2	Benzo(b)fluoranthene	130		ug/kg dry	38	11/04/10	11/15/10	CLP SOM01.2 BS
191-24-2	Benzo(g,h,i)perylene	51		ug/kg dry	38	11/04/10	11/15/10	CLP SOM01.2 BS
207-08-9	Benzo(k)fluoranthene	68		ug/kg dry	38	11/04/10	11/15/10	CLP SOM01.2 BS
85-68-7	Benzyl butyl phthalate	200	U	ug/kg dry	200	11/04/10	11/09/10	CLP SOM01.2 B
111-91-1	Bis(2-chloroethoxy)methane	200	U	ug/kg dry	200	11/04/10	11/09/10	CLP SOM01.2 B
111-44-4	bis(2-Chloroethyl) Ether	200	U	ug/kg dry	200	11/04/10	11/09/10	CLP SOM01.2 B
39638-32-9	Bis(2-chloroisopropyl) ether	200	U	ug/kg dry	200	11/04/10	11/09/10	CLP SOM01.2 B
117-81-7	Bis(2-ethylhexyl) phthalate	200	U	ug/kg dry	200	11/04/10	11/09/10	CLP SOM01.2 B
105-60-2	Caprolactam	200	U	ug/kg dry	200	11/04/10	11/09/10	CLP SOM01.2 B
86-74-8	Carbazole	200	U	ug/kg dry	200	11/04/10	11/09/10	CLP SOM01.2 B
218-01-9	Chrysene	58		ug/kg dry	38	11/04/10	11/15/10	CLP SOM01.2 BS
53-70-3	Dibenzo(a,h)anthracene	14		ug/kg dry	3.8	11/04/10	11/15/10	CLP SOM01.2 BS
132-64-9	Dibenzofuran	200	U	ug/kg dry	200	11/04/10	11/09/10	CLP SOM01.2 B
84-66-2	Diethyl phthalate	200	U	ug/kg dry	200	11/04/10	11/09/10	CLP SOM01.2 B
131-11-3	Dimethyl phthalate	200	U	ug/kg dry	200	11/04/10	11/09/10	CLP SOM01.2 B
84-74-2	Di-n-butylphthalate	200	U	ug/kg dry	200	11/04/10	11/09/10	CLP SOM01.2 B
117-84-0	Di-n-octylphthalate	200	U	ug/kg dry	200	11/04/10	11/09/10	CLP SOM01.2 B
206-44-0	Fluoranthene	33		ug/kg dry	3.8	11/04/10	11/15/10	CLP SOM01.2 BS
86-73-7	Fluorene	3.8	U	ug/kg dry	3.8	11/04/10	11/15/10	CLP SOM01.2 BS
118-74-1	Hexachlorobenzene (HCB)	200	U	ug/kg dry	200	11/04/10	11/09/10	CLP SOM01.2 B
87-68-3	Hexachlorobutadiene	200	U	ug/kg dry	200	11/04/10	11/09/10	CLP SOM01.2 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	200	U	ug/kg dry	200	11/04/10	11/09/10	CLP SOM01.2 B
67-72-1	Hexachloroethane	200	U	ug/kg dry	200	11/04/10	11/09/10	CLP SOM01.2 B
193-39-5	Indeno (1,2,3-cd) pyrene	49		ug/kg dry	38	11/04/10	11/15/10	CLP SOM01.2 BS
78-59-1	Isophorone	200	U	ug/kg dry	200	11/04/10	11/09/10	CLP SOM01.2 B



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0019

Project: 11-0019, Tronox Inc - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 11-0019, Tronox Inc

Contract Lab Case: 40729

Sample ID: 12622ASF

Lab ID: C104601-17

MD No:

Station ID: 12622

Matrix: Surface Soil

D No: 65B2 MITKEM

Date Collected: 10/26/10 9:45

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
91-20-3	Naphthalene	3.8	U	ug/kg dry	3.8	11/04/10	11/15/10	CLP SOM01.2 BS
98-95-3	Nitrobenzene	200	U	ug/kg dry	200	11/04/10	11/09/10	CLP SOM01.2 B
621-64-7	n-Nitroso di-n-Propylamine	200	U	ug/kg dry	200	11/04/10	11/09/10	CLP SOM01.2 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	200	U	ug/kg dry	200	11/04/10	11/09/10	CLP SOM01.2 B
87-86-5	Pentachlorophenol	7.7	U, J, CLP16	ug/kg dry	7.7	11/04/10	11/15/10	CLP SOM01.2 BS
85-01-8	Phenanthrene	9.1		ug/kg dry	3.8	11/04/10	11/15/10	CLP SOM01.2 BS
108-95-2	Phenol	200	U	ug/kg dry	200	11/04/10	11/09/10	CLP SOM01.2 B
129-00-0	Pyrene	53		ug/kg dry	38	11/04/10	11/15/10	CLP SOM01.2 BS
Tentatively Identified Compounds:								
R4-6501	Unidentified Compound(s)	400	J, CLP15	ug/kg dry		11/04/10	11/09/10	CLP SOM01.2 B



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D.A.R.T. Id: 11-0019

Project: 11-0019, Tronox Inc - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 11-0019, Tronox Inc

Contract Lab Case: 40729

Sample ID: 12623ASF

Lab ID: C104601-18

MD No:

Station ID: 12623

Matrix: Surface Soil

D No: 6586 MITKEM

Date Collected: 10/26/10 9:25

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	13		%		11/01/10	11/09/10	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	190	U	ug/kg dry	190	11/01/10	11/09/10	CLP SOM01.2 B
92-52-4	1,1-Biphenyl	190	U	ug/kg dry	190	11/01/10	11/09/10	CLP SOM01.2 B
95-94-3	1,2,4,5-Tetrachlorobenzene	190	U	ug/kg dry	190	11/01/10	11/09/10	CLP SOM01.2 B
58-90-2	2,3,4,6-Tetrachlorophenol	190	U	ug/kg dry	190	11/01/10	11/09/10	CLP SOM01.2 B
95-95-4	2,4,5-Trichlorophenol	190	U	ug/kg dry	190	11/01/10	11/09/10	CLP SOM01.2 B
88-06-2	2,4,6-Trichlorophenol	190	U	ug/kg dry	190	11/01/10	11/09/10	CLP SOM01.2 B
120-83-2	2,4-Dichlorophenol	190	U	ug/kg dry	190	11/01/10	11/09/10	CLP SOM01.2 B
105-67-9	2,4-Dimethylphenol	190	U	ug/kg dry	190	11/01/10	11/09/10	CLP SOM01.2 B
51-28-5	2,4-Dinitrophenol	370	U, J, CLP16	ug/kg dry	370	11/01/10	11/09/10	CLP SOM01.2 B
121-14-2	2,4-Dinitrotoluene	190	U	ug/kg dry	190	11/01/10	11/09/10	CLP SOM01.2 B
606-20-2	2,6-Dinitrotoluene	190	U	ug/kg dry	190	11/01/10	11/09/10	CLP SOM01.2 B
91-58-7	2-Chloronaphthalene	190	U	ug/kg dry	190	11/01/10	11/09/10	CLP SOM01.2 B
95-57-8	2-Chlorophenol	190	U	ug/kg dry	190	11/01/10	11/09/10	CLP SOM01.2 B
534-52-1	2-Methyl-4,6-dinitrophenol	370	U	ug/kg dry	370	11/01/10	11/09/10	CLP SOM01.2 B
91-57-6	2-Methylnaphthalene	3.7	U	ug/kg dry	3.7	11/01/10	11/19/10	CLP SOM01.2 BS
95-48-7	2-Methylphenol	190	U	ug/kg dry	190	11/01/10	11/09/10	CLP SOM01.2 B
88-74-4	2-Nitroaniline	370	U	ug/kg dry	370	11/01/10	11/09/10	CLP SOM01.2 B
88-75-5	2-Nitrophenol	190	U	ug/kg dry	190	11/01/10	11/09/10	CLP SOM01.2 B
91-94-1	3,3'-Dichlorobenzidine	190	U	ug/kg dry	190	11/01/10	11/09/10	CLP SOM01.2 B
99-09-2	3-Nitroaniline	370	U	ug/kg dry	370	11/01/10	11/09/10	CLP SOM01.2 B
101-55-3	4-Bromophenyl phenyl ether	190	U	ug/kg dry	190	11/01/10	11/09/10	CLP SOM01.2 B
59-50-7	4-Chloro-3-methylphenol	190	U	ug/kg dry	190	11/01/10	11/09/10	CLP SOM01.2 B
106-47-8	4-Chloroaniline	190	U	ug/kg dry	190	11/01/10	11/09/10	CLP SOM01.2 B
7005-72-3	4-Chlorophenyl phenyl ether	190	U	ug/kg dry	190	11/01/10	11/09/10	CLP SOM01.2 B
100-01-6	4-Nitroaniline	370	U	ug/kg dry	370	11/01/10	11/09/10	CLP SOM01.2 B
100-02-7	4-Nitrophenol	370	U	ug/kg dry	370	11/01/10	11/09/10	CLP SOM01.2 B
83-32-9	Acenaphthene	3.7	U	ug/kg dry	3.7	11/01/10	11/19/10	CLP SOM01.2 BS
208-96-8	Acenaphthylene	61		ug/kg dry	37	11/01/10	11/20/10	CLP SOM01.2 BS
98-86-2	Acetophenone	190	U	ug/kg dry	190	11/01/10	11/09/10	CLP SOM01.2 B



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D.A.R.T. Id: 11-0019

Project: 11-0019, Tronox Inc - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 11-0019, Tronox Inc

Contract Lab Case: 40729

Sample ID: 12623ASF

Lab ID: C104601-18

MD No:

Station ID: 12623

Matrix: Surface Soil

D No: 6586 MITKEM

Date Collected: 10/26/10 9:25

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
120-12-7	Anthracene	56		ug/kg dry	37	11/01/10	11/20/10	CLP SOM01.2 BS
1912-24-9	Atrazine	190	U	ug/kg dry	190	11/01/10	11/09/10	CLP SOM01.2 B
100-52-7	Benzaldehyde	190	U	ug/kg dry	190	11/01/10	11/09/10	CLP SOM01.2 B
56-55-3	Benzo(a)anthracene	96		ug/kg dry	37	11/01/10	11/20/10	CLP SOM01.2 BS
50-32-8	Benzo(a)pyrene	160		ug/kg dry	37	11/01/10	11/20/10	CLP SOM01.2 BS
205-99-2	Benzo(b)fluoranthene	340		ug/kg dry	190	11/01/10	11/09/10	CLP SOM01.2 B
191-24-2	Benzo(g,h,i)perylene	190		ug/kg dry	190	11/01/10	11/09/10	CLP SOM01.2 B
207-08-9	Benzo(k)fluoranthene	200		ug/kg dry	37	11/01/10	11/20/10	CLP SOM01.2 BS
85-68-7	Benzyl butyl phthalate	2100		ug/kg dry	190	11/01/10	11/09/10	CLP SOM01.2 B
111-91-1	Bis(2-chloroethoxy)methane	190	U	ug/kg dry	190	11/01/10	11/09/10	CLP SOM01.2 B
111-44-4	bis(2-Chloroethyl) Ether	190	U	ug/kg dry	190	11/01/10	11/09/10	CLP SOM01.2 B
39638-32-9	Bis(2-chloroisopropyl) ether	190	U	ug/kg dry	190	11/01/10	11/09/10	CLP SOM01.2 B
117-81-7	Bis(2-ethylhexyl) phthalate	680		ug/kg dry	190	11/01/10	11/09/10	CLP SOM01.2 B
105-60-2	Caprolactam	190	U	ug/kg dry	190	11/01/10	11/09/10	CLP SOM01.2 B
86-74-8	Carbazole	190	U	ug/kg dry	190	11/01/10	11/09/10	CLP SOM01.2 B
218-01-9	Chrysene	200		ug/kg dry	190	11/01/10	11/09/10	CLP SOM01.2 B
53-70-3	Dibenzo(a,h)anthracene	46		ug/kg dry	37	11/01/10	11/20/10	CLP SOM01.2 BS
132-64-9	Dibenzofuran	190	U	ug/kg dry	190	11/01/10	11/09/10	CLP SOM01.2 B
84-66-2	Diethyl phthalate	190	U	ug/kg dry	190	11/01/10	11/09/10	CLP SOM01.2 B
131-11-3	Dimethyl phthalate	190	U	ug/kg dry	190	11/01/10	11/09/10	CLP SOM01.2 B
84-74-2	Di-n-butylphthalate	190	U	ug/kg dry	190	11/01/10	11/09/10	CLP SOM01.2 B
117-84-0	Di-n-octylphthalate	190	U	ug/kg dry	190	11/01/10	11/09/10	CLP SOM01.2 B
206-44-0	Fluoranthene	130		ug/kg dry	37	11/01/10	11/19/10	CLP SOM01.2 BS
86-73-7	Fluorene	3.7	U	ug/kg dry	3.7	11/01/10	11/19/10	CLP SOM01.2 BS
118-74-1	Hexachlorobenzene (HCB)	190	U	ug/kg dry	190	11/01/10	11/09/10	CLP SOM01.2 B
87-68-3	Hexachlorobutadiene	190	U	ug/kg dry	190	11/01/10	11/09/10	CLP SOM01.2 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	190	U	ug/kg dry	190	11/01/10	11/09/10	CLP SOM01.2 B
67-72-1	Hexachloroethane	190	U	ug/kg dry	190	11/01/10	11/09/10	CLP SOM01.2 B
193-39-5	Indeno (1,2,3-cd) pyrene	170		ug/kg dry	37	11/01/10	11/20/10	CLP SOM01.2 BS
78-59-1	Isophorone	190	U	ug/kg dry	190	11/01/10	11/09/10	CLP SOM01.2 B
91-20-3	Naphthalene	3.7	U	ug/kg dry	3.7	11/01/10	11/19/10	CLP SOM01.2 BS



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980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0019

Project: 11-0019, Tronox Inc - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 11-0019, Tronox Inc

Contract Lab Case: 40729

Sample ID: 12623ASF

Lab ID: C104601-18

MD No:

Station ID: 12623

Matrix: Surface Soil

D No: 6586 MITKEM

Date Collected: 10/26/10 9:25

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
98-95-3	Nitrobenzene	190	U	ug/kg dry	190	11/01/10	11/09/10	CLP SOM01.2 B
621-64-7	n-Nitroso di-n-Propylamine	190	U	ug/kg dry	190	11/01/10	11/09/10	CLP SOM01.2 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	190	U	ug/kg dry	190	11/01/10	11/09/10	CLP SOM01.2 B
87-86-5	Pentachlorophenol	85	J, CLP01	ug/kg dry	370	11/01/10	11/09/10	CLP SOM01.2 B
85-01-8	Phenanthrene	21		ug/kg dry	3.7	11/01/10	11/19/10	CLP SOM01.2 BS
108-95-2	Phenol	190	U	ug/kg dry	190	11/01/10	11/09/10	CLP SOM01.2 B
129-00-0	Pyrene	150		ug/kg dry	37	11/01/10	11/20/10	CLP SOM01.2 BS
Tentatively Identified Compounds:								
83-47-6	.gamma.-Sitosterol	500	NJ, CLP15	ug/kg dry		11/01/10	11/09/10	CLP SOM01.2 B
R4-6501	Unidentified Compound(s)	1000	J, CLP15	ug/kg dry		11/01/10	11/09/10	CLP SOM01.2 B



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D.A.R.T. Id: 11-0019

Project: 11-0019, Tronox Inc - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 11-0019, Tronox Inc

Contract Lab Case: 40729

Sample ID: 12624BSF

Lab ID: C104601-19

MD No:

Station ID: 12624

Matrix: Surface Soil

D No: 6588 MITKEM

Date Collected: 10/25/10 16:45

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	8.0		%		11/01/10	11/09/10	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	180	U	ug/kg dry	180	11/01/10	11/09/10	CLP SOM01.2 B
92-52-4	1,1-Biphenyl	180	U	ug/kg dry	180	11/01/10	11/09/10	CLP SOM01.2 B
95-94-3	1,2,4,5-Tetrachlorobenzene	180	U	ug/kg dry	180	11/01/10	11/09/10	CLP SOM01.2 B
58-90-2	2,3,4,6-Tetrachlorophenol	180	U	ug/kg dry	180	11/01/10	11/09/10	CLP SOM01.2 B
95-95-4	2,4,5-Trichlorophenol	180	U	ug/kg dry	180	11/01/10	11/09/10	CLP SOM01.2 B
88-06-2	2,4,6-Trichlorophenol	180	U	ug/kg dry	180	11/01/10	11/09/10	CLP SOM01.2 B
120-83-2	2,4-Dichlorophenol	180	U	ug/kg dry	180	11/01/10	11/09/10	CLP SOM01.2 B
105-67-9	2,4-Dimethylphenol	180	U	ug/kg dry	180	11/01/10	11/09/10	CLP SOM01.2 B
51-28-5	2,4-Dinitrophenol	350	U, J, CLP16	ug/kg dry	350	11/01/10	11/09/10	CLP SOM01.2 B
121-14-2	2,4-Dinitrotoluene	180	U	ug/kg dry	180	11/01/10	11/09/10	CLP SOM01.2 B
606-20-2	2,6-Dinitrotoluene	180	U	ug/kg dry	180	11/01/10	11/09/10	CLP SOM01.2 B
91-58-7	2-Chloronaphthalene	180	U	ug/kg dry	180	11/01/10	11/09/10	CLP SOM01.2 B
95-57-8	2-Chlorophenol	180	U	ug/kg dry	180	11/01/10	11/09/10	CLP SOM01.2 B
534-52-1	2-Methyl-4,6-dinitrophenol	350	U	ug/kg dry	350	11/01/10	11/09/10	CLP SOM01.2 B
91-57-6	2-Methylnaphthalene	3.5	U, J, QI-1	ug/kg dry	3.5	11/01/10	11/19/10	CLP SOM01.2 BS
95-48-7	2-Methylphenol	180	U	ug/kg dry	180	11/01/10	11/09/10	CLP SOM01.2 B
88-74-4	2-Nitroaniline	350	U	ug/kg dry	350	11/01/10	11/09/10	CLP SOM01.2 B
88-75-5	2-Nitrophenol	180	U	ug/kg dry	180	11/01/10	11/09/10	CLP SOM01.2 B
91-94-1	3,3'-Dichlorobenzidine	180	U	ug/kg dry	180	11/01/10	11/09/10	CLP SOM01.2 B
99-09-2	3-Nitroaniline	350	U	ug/kg dry	350	11/01/10	11/09/10	CLP SOM01.2 B
101-55-3	4-Bromophenyl phenyl ether	180	U	ug/kg dry	180	11/01/10	11/09/10	CLP SOM01.2 B
59-50-7	4-Chloro-3-methylphenol	180	U	ug/kg dry	180	11/01/10	11/09/10	CLP SOM01.2 B
106-47-8	4-Chloroaniline	180	U	ug/kg dry	180	11/01/10	11/09/10	CLP SOM01.2 B
7005-72-3	4-Chlorophenyl phenyl ether	180	U	ug/kg dry	180	11/01/10	11/09/10	CLP SOM01.2 B
100-01-6	4-Nitroaniline	350	U	ug/kg dry	350	11/01/10	11/09/10	CLP SOM01.2 B
100-02-7	4-Nitrophenol	350	U	ug/kg dry	350	11/01/10	11/09/10	CLP SOM01.2 B
83-32-9	Acenaphthene	3.5	U	ug/kg dry	3.5	11/01/10	11/19/10	CLP SOM01.2 BS
208-96-8	Acenaphthylene	7.5		ug/kg dry	3.5	11/01/10	11/19/10	CLP SOM01.2 BS
98-86-2	Acetophenone	180	U	ug/kg dry	180	11/01/10	11/09/10	CLP SOM01.2 B



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980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0019

Project: 11-0019, Tronox Inc - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 11-0019, Tronox Inc

Contract Lab Case: 40729

Sample ID: 12624BSF

Lab ID: C104601-19

MD No:

Station ID: 12624

Matrix: Surface Soil

D No: 6588 MITKEM

Date Collected: 10/25/10 16:45

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
120-12-7	Anthracene	8.6	J, QI-1	ug/kg dry	3.5	11/01/10	11/19/10	CLP SOM01.2 BS
1912-24-9	Atrazine	180	U	ug/kg dry	180	11/01/10	11/09/10	CLP SOM01.2 B
100-52-7	Benzaldehyde	180	U	ug/kg dry	180	11/01/10	11/09/10	CLP SOM01.2 B
56-55-3	Benzo(a)anthracene	14		ug/kg dry	3.5	11/01/10	11/19/10	CLP SOM01.2 BS
50-32-8	Benzo(a)pyrene	25		ug/kg dry	14	11/01/10	11/20/10	CLP SOM01.2 BS
205-99-2	Benzo(b)fluoranthene	57		ug/kg dry	14	11/01/10	11/20/10	CLP SOM01.2 BS
191-24-2	Benzo(g,h,i)perylene	25		ug/kg dry	14	11/01/10	11/20/10	CLP SOM01.2 BS
207-08-9	Benzo(k)fluoranthene	36		ug/kg dry	14	11/01/10	11/20/10	CLP SOM01.2 BS
85-68-7	Benzyl butyl phthalate	180	U	ug/kg dry	180	11/01/10	11/09/10	CLP SOM01.2 B
111-91-1	Bis(2-chloroethoxy)methane	180	U	ug/kg dry	180	11/01/10	11/09/10	CLP SOM01.2 B
111-44-4	bis(2-Chloroethyl) Ether	180	U	ug/kg dry	180	11/01/10	11/09/10	CLP SOM01.2 B
39638-32-9	Bis(2-chloroisopropyl) ether	180	U	ug/kg dry	180	11/01/10	11/09/10	CLP SOM01.2 B
117-81-7	Bis(2-ethylhexyl) phthalate	180	U	ug/kg dry	180	11/01/10	11/09/10	CLP SOM01.2 B
105-60-2	Caprolactam	180	U	ug/kg dry	180	11/01/10	11/09/10	CLP SOM01.2 B
86-74-8	Carbazole	180	U	ug/kg dry	180	11/01/10	11/09/10	CLP SOM01.2 B
218-01-9	Chrysene	24		ug/kg dry	3.5	11/01/10	11/19/10	CLP SOM01.2 BS
53-70-3	Dibenzo(a,h)anthracene	20		ug/kg dry	3.5	11/01/10	11/19/10	CLP SOM01.2 BS
132-64-9	Dibenzofuran	180	U	ug/kg dry	180	11/01/10	11/09/10	CLP SOM01.2 B
84-66-2	Diethyl phthalate	180	U	ug/kg dry	180	11/01/10	11/09/10	CLP SOM01.2 B
131-11-3	Dimethyl phthalate	180	U	ug/kg dry	180	11/01/10	11/09/10	CLP SOM01.2 B
84-74-2	Di-n-butylphthalate	180	U	ug/kg dry	180	11/01/10	11/09/10	CLP SOM01.2 B
117-84-0	Di-n-octylphthalate	180	U	ug/kg dry	180	11/01/10	11/09/10	CLP SOM01.2 B
206-44-0	Fluoranthene	18	J, QI-1	ug/kg dry	3.5	11/01/10	11/19/10	CLP SOM01.2 BS
86-73-7	Fluorene	3.5	U	ug/kg dry	3.5	11/01/10	11/19/10	CLP SOM01.2 BS
118-74-1	Hexachlorobenzene (HCB)	180	U	ug/kg dry	180	11/01/10	11/09/10	CLP SOM01.2 B
87-68-3	Hexachlorobutadiene	180	U	ug/kg dry	180	11/01/10	11/09/10	CLP SOM01.2 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	180	U	ug/kg dry	180	11/01/10	11/09/10	CLP SOM01.2 B
67-72-1	Hexachloroethane	180	U	ug/kg dry	180	11/01/10	11/09/10	CLP SOM01.2 B
193-39-5	Indeno (1,2,3-cd) pyrene	28		ug/kg dry	14	11/01/10	11/20/10	CLP SOM01.2 BS
78-59-1	Isophorone	180	U	ug/kg dry	180	11/01/10	11/09/10	CLP SOM01.2 B
91-20-3	Naphthalene	3.5	U, J, QI-1	ug/kg dry	3.5	11/01/10	11/19/10	CLP SOM01.2 BS



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0019

Project: 11-0019, Tronox Inc - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 11-0019, Tronox Inc

Contract Lab Case: 40729

Sample ID: 12624BSF

Lab ID: C104601-19

MD No:

Station ID: 12624

Matrix: Surface Soil

D No: 6588 MITKEM

Date Collected: 10/25/10 16:45

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
98-95-3	Nitrobenzene	180	U	ug/kg dry	180	11/01/10	11/09/10	CLP SOM01.2 B
621-64-7	n-Nitroso di-n-Propylamine	180	U	ug/kg dry	180	11/01/10	11/09/10	CLP SOM01.2 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	180	U	ug/kg dry	180	11/01/10	11/09/10	CLP SOM01.2 B
87-86-5	Pentachlorophenol	350	U	ug/kg dry	350	11/01/10	11/09/10	CLP SOM01.2 B
85-01-8	Phenanthrene	3.5	U, J, QI-1	ug/kg dry	3.5	11/01/10	11/19/10	CLP SOM01.2 BS
108-95-2	Phenol	180	U	ug/kg dry	180	11/01/10	11/09/10	CLP SOM01.2 B
129-00-0	Pyrene	22		ug/kg dry	3.5	11/01/10	11/19/10	CLP SOM01.2 BS
Tentatively Identified Compounds:								
83-46-5	.beta.-Sitosterol	300	NJ, CLP15	ug/kg dry		11/01/10	11/09/10	CLP SOM01.2 B
474-62-4	Campesterol	200	NJ, CLP15	ug/kg dry		11/01/10	11/09/10	CLP SOM01.2 B
R4-6500	Petroleum Product:		N, CLP15			11/01/10	11/09/10	CLP SOM01.2 B
R4-6501	Unidentified Compound(s)	400	J, CLP15	ug/kg dry		11/01/10	11/09/10	CLP SOM01.2 B



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D.A.R.T. Id: 11-0019
Project: 11-0019, Tronox Inc - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 11-0019, Tronox Inc

Contract Lab Case: 40729

Sample ID: 12629ASF

Lab ID: C104601-20

MD No:

Station ID: 12629

Matrix: Surface Soil

D No: 65B1 MITKEM

Date Collected: 10/26/10 8:25

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	15		%		11/03/10	11/11/10	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	200	U	ug/kg dry	200	11/03/10	11/11/10	CLP SOM01.2 B
92-52-4	1,1-Biphenyl	200	U	ug/kg dry	200	11/03/10	11/11/10	CLP SOM01.2 B
95-94-3	1,2,4,5-Tetrachlorobenzene	200	U	ug/kg dry	200	11/03/10	11/11/10	CLP SOM01.2 B
58-90-2	2,3,4,6-Tetrachlorophenol	200	U	ug/kg dry	200	11/03/10	11/11/10	CLP SOM01.2 B
95-95-4	2,4,5-Trichlorophenol	200	U	ug/kg dry	200	11/03/10	11/11/10	CLP SOM01.2 B
88-06-2	2,4,6-Trichlorophenol	200	U	ug/kg dry	200	11/03/10	11/11/10	CLP SOM01.2 B
120-83-2	2,4-Dichlorophenol	200	U	ug/kg dry	200	11/03/10	11/11/10	CLP SOM01.2 B
105-67-9	2,4-Dimethylphenol	200	U, J, QC-1	ug/kg dry	200	11/03/10	11/11/10	CLP SOM01.2 B
51-28-5	2,4-Dinitrophenol	390	U, J, QC-1, CLP16	ug/kg dry	390	11/03/10	11/11/10	CLP SOM01.2 B
121-14-2	2,4-Dinitrotoluene	200	U	ug/kg dry	200	11/03/10	11/11/10	CLP SOM01.2 B
606-20-2	2,6-Dinitrotoluene	200	U	ug/kg dry	200	11/03/10	11/11/10	CLP SOM01.2 B
91-58-7	2-Chloronaphthalene	200	U	ug/kg dry	200	11/03/10	11/11/10	CLP SOM01.2 B
95-57-8	2-Chlorophenol	200	U	ug/kg dry	200	11/03/10	11/11/10	CLP SOM01.2 B
534-52-1	2-Methyl-4,6-dinitrophenol	390	U	ug/kg dry	390	11/03/10	11/11/10	CLP SOM01.2 B
91-57-6	2-Methylnaphthalene	3.9	U	ug/kg dry	3.9	11/03/10	11/16/10	CLP SOM01.2 BS
95-48-7	2-Methylphenol	200	U	ug/kg dry	200	11/03/10	11/11/10	CLP SOM01.2 B
88-74-4	2-Nitroaniline	390	U	ug/kg dry	390	11/03/10	11/11/10	CLP SOM01.2 B
88-75-5	2-Nitrophenol	200	U	ug/kg dry	200	11/03/10	11/11/10	CLP SOM01.2 B
91-94-1	3,3'-Dichlorobenzidine	200	U	ug/kg dry	200	11/03/10	11/11/10	CLP SOM01.2 B
99-09-2	3-Nitroaniline	390	U	ug/kg dry	390	11/03/10	11/11/10	CLP SOM01.2 B
101-55-3	4-Bromophenyl phenyl ether	200	U	ug/kg dry	200	11/03/10	11/11/10	CLP SOM01.2 B
59-50-7	4-Chloro-3-methylphenol	200	U	ug/kg dry	200	11/03/10	11/11/10	CLP SOM01.2 B
106-47-8	4-Chloroaniline	200	U	ug/kg dry	200	11/03/10	11/11/10	CLP SOM01.2 B
7005-72-3	4-Chlorophenyl phenyl ether	200	U	ug/kg dry	200	11/03/10	11/11/10	CLP SOM01.2 B
100-01-6	4-Nitroaniline	390	U, J, QC-1	ug/kg dry	390	11/03/10	11/11/10	CLP SOM01.2 B
100-02-7	4-Nitrophenol	390	U	ug/kg dry	390	11/03/10	11/11/10	CLP SOM01.2 B
83-32-9	Acenaphthene	3.9	U	ug/kg dry	3.9	11/03/10	11/16/10	CLP SOM01.2 BS
208-96-8	Acenaphthylene	58		ug/kg dry	39	11/03/10	11/16/10	CLP SOM01.2 BS



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D.A.R.T. Id: 11-0019

Project: 11-0019, Tronox Inc - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 11-0019, Tronox Inc

Contract Lab Case: 40729

Sample ID: 12629ASF

Lab ID: C104601-20

MD No:

Station ID: 12629

Matrix: Surface Soil

D No: 65B1 MITKEM

Date Collected: 10/26/10 8:25

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
98-86-2	Acetophenone	200	U	ug/kg dry	200	11/03/10	11/11/10	CLP SOM01.2 B
120-12-7	Anthracene	70		ug/kg dry	39	11/03/10	11/16/10	CLP SOM01.2 BS
1912-24-9	Atrazine	200	U	ug/kg dry	200	11/03/10	11/11/10	CLP SOM01.2 B
100-52-7	Benzaldehyde	200	U	ug/kg dry	200	11/03/10	11/11/10	CLP SOM01.2 B
56-55-3	Benzo(a)anthracene	140		ug/kg dry	39	11/03/10	11/16/10	CLP SOM01.2 BS
50-32-8	Benzo(a)pyrene	260		ug/kg dry	39	11/03/10	11/16/10	CLP SOM01.2 BS
205-99-2	Benzo(b)fluoranthene	210		ug/kg dry	200	11/03/10	11/11/10	CLP SOM01.2 B
191-24-2	Benzo(g,h,i)perylene	220		ug/kg dry	39	11/03/10	11/16/10	CLP SOM01.2 BS
207-08-9	Benzo(k)fluoranthene	310	J, QC-2	ug/kg dry	39	11/03/10	11/16/10	CLP SOM01.2 BS
85-68-7	Benzyl butyl phthalate	200	U	ug/kg dry	200	11/03/10	11/11/10	CLP SOM01.2 B
111-91-1	Bis(2-chloroethoxy)methane	200	U	ug/kg dry	200	11/03/10	11/11/10	CLP SOM01.2 B
111-44-4	bis(2-Chloroethyl) Ether	200	U	ug/kg dry	200	11/03/10	11/11/10	CLP SOM01.2 B
39638-32-9	Bis(2-chloroisopropyl) ether	200	U	ug/kg dry	200	11/03/10	11/11/10	CLP SOM01.2 B
117-81-7	Bis(2-ethylhexyl) phthalate	200	U	ug/kg dry	200	11/03/10	11/11/10	CLP SOM01.2 B
105-60-2	Caprolactam	200	U	ug/kg dry	200	11/03/10	11/11/10	CLP SOM01.2 B
86-74-8	Carbazole	200	U	ug/kg dry	200	11/03/10	11/11/10	CLP SOM01.2 B
218-01-9	Chrysene	180		ug/kg dry	39	11/03/10	11/16/10	CLP SOM01.2 BS
53-70-3	Dibenzo(a,h)anthracene	67		ug/kg dry	39	11/03/10	11/16/10	CLP SOM01.2 BS
132-64-9	Dibenzofuran	200	U	ug/kg dry	200	11/03/10	11/11/10	CLP SOM01.2 B
84-66-2	Diethyl phthalate	200	U	ug/kg dry	200	11/03/10	11/11/10	CLP SOM01.2 B
131-11-3	Dimethyl phthalate	200	U	ug/kg dry	200	11/03/10	11/11/10	CLP SOM01.2 B
84-74-2	Di-n-butylphthalate	200	U	ug/kg dry	200	11/03/10	11/11/10	CLP SOM01.2 B
117-84-0	Di-n-octylphthalate	200	U	ug/kg dry	200	11/03/10	11/11/10	CLP SOM01.2 B
206-44-0	Fluoranthene	150		ug/kg dry	39	11/03/10	11/16/10	CLP SOM01.2 BS
86-73-7	Fluorene	3.9	U	ug/kg dry	3.9	11/03/10	11/16/10	CLP SOM01.2 BS
118-74-1	Hexachlorobenzene (HCB)	200	U	ug/kg dry	200	11/03/10	11/11/10	CLP SOM01.2 B
87-68-3	Hexachlorobutadiene	200	U	ug/kg dry	200	11/03/10	11/11/10	CLP SOM01.2 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	200	U	ug/kg dry	200	11/03/10	11/11/10	CLP SOM01.2 B
67-72-1	Hexachloroethane	200	U	ug/kg dry	200	11/03/10	11/11/10	CLP SOM01.2 B
193-39-5	Indeno (1,2,3-cd) pyrene	210		ug/kg dry	39	11/03/10	11/16/10	CLP SOM01.2 BS
78-59-1	Isophorone	200	U	ug/kg dry	200	11/03/10	11/11/10	CLP SOM01.2 B



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Region 4 Science and Ecosystem Support Division
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D.A.R.T. Id: 11-0019

Project: 11-0019, Tronox Inc - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 11-0019, Tronox Inc

Contract Lab Case: 40729

Sample ID: 12629ASF

Lab ID: C104601-20

MD No:

Station ID: 12629

Matrix: Surface Soil

D No: 65B1 MITKEM

Date Collected: 10/26/10 8:25

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
91-20-3	Naphthalene	3.9	U	ug/kg dry	3.9	11/03/10	11/16/10	CLP SOM01.2 BS
98-95-3	Nitrobenzene	200	U	ug/kg dry	200	11/03/10	11/11/10	CLP SOM01.2 B
621-64-7	n-Nitroso di-n-Propylamine	200	U	ug/kg dry	200	11/03/10	11/11/10	CLP SOM01.2 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	200	U	ug/kg dry	200	11/03/10	11/11/10	CLP SOM01.2 B
87-86-5	Pentachlorophenol	28	J, CLP16, QC-1	ug/kg dry	7.9	11/03/10	11/16/10	CLP SOM01.2 BS
85-01-8	Phenanthrene	18		ug/kg dry	3.9	11/03/10	11/16/10	CLP SOM01.2 BS
108-95-2	Phenol	200	U	ug/kg dry	200	11/03/10	11/11/10	CLP SOM01.2 B
129-00-0	Pyrene	220	J, QC-2	ug/kg dry	39	11/03/10	11/16/10	CLP SOM01.2 BS
Tentatively Identified Compounds:								
83-46-5	.beta.-Sitosterol	300	NJ, CLP15	ug/kg dry		11/03/10	11/11/10	CLP SOM01.2 B
R4-6501	Unidentified Compound(s)	1000	J, CLP15	ug/kg dry		11/03/10	11/11/10	CLP SOM01.2 B



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D.A.R.T. Id: 11-0019

Project: 11-0019, Tronox Inc - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 11-0019, Tronox Inc

Contract Lab Case: 40729

Sample ID: 12630ASF

Lab ID: C104601-21

MD No:

Station ID: 12630

Matrix: Surface Soil

D No: 6589 MITKEM

Date Collected: 10/25/10 17:03

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	13		%		11/01/10	11/09/10	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	190	U	ug/kg dry	190	11/01/10	11/09/10	CLP SOM01.2 B
92-52-4	1,1-Biphenyl	190	U	ug/kg dry	190	11/01/10	11/09/10	CLP SOM01.2 B
95-94-3	1,2,4,5-Tetrachlorobenzene	190	U	ug/kg dry	190	11/01/10	11/09/10	CLP SOM01.2 B
58-90-2	2,3,4,6-Tetrachlorophenol	190	U	ug/kg dry	190	11/01/10	11/09/10	CLP SOM01.2 B
95-95-4	2,4,5-Trichlorophenol	190	U	ug/kg dry	190	11/01/10	11/09/10	CLP SOM01.2 B
88-06-2	2,4,6-Trichlorophenol	190	U	ug/kg dry	190	11/01/10	11/09/10	CLP SOM01.2 B
120-83-2	2,4-Dichlorophenol	190	U	ug/kg dry	190	11/01/10	11/09/10	CLP SOM01.2 B
105-67-9	2,4-Dimethylphenol	190	U	ug/kg dry	190	11/01/10	11/09/10	CLP SOM01.2 B
51-28-5	2,4-Dinitrophenol	380	U, J, CLP16	ug/kg dry	380	11/01/10	11/09/10	CLP SOM01.2 B
121-14-2	2,4-Dinitrotoluene	190	U	ug/kg dry	190	11/01/10	11/09/10	CLP SOM01.2 B
606-20-2	2,6-Dinitrotoluene	190	U	ug/kg dry	190	11/01/10	11/09/10	CLP SOM01.2 B
91-58-7	2-Chloronaphthalene	190	U	ug/kg dry	190	11/01/10	11/09/10	CLP SOM01.2 B
95-57-8	2-Chlorophenol	190	U	ug/kg dry	190	11/01/10	11/09/10	CLP SOM01.2 B
534-52-1	2-Methyl-4,6-dinitrophenol	380	U	ug/kg dry	380	11/01/10	11/09/10	CLP SOM01.2 B
91-57-6	2-Methylnaphthalene	3.8	U	ug/kg dry	3.8	11/01/10	11/19/10	CLP SOM01.2 BS
95-48-7	2-Methylphenol	190	U	ug/kg dry	190	11/01/10	11/09/10	CLP SOM01.2 B
88-74-4	2-Nitroaniline	380	U	ug/kg dry	380	11/01/10	11/09/10	CLP SOM01.2 B
88-75-5	2-Nitrophenol	190	U	ug/kg dry	190	11/01/10	11/09/10	CLP SOM01.2 B
91-94-1	3,3'-Dichlorobenzidine	190	U	ug/kg dry	190	11/01/10	11/09/10	CLP SOM01.2 B
99-09-2	3-Nitroaniline	380	U	ug/kg dry	380	11/01/10	11/09/10	CLP SOM01.2 B
101-55-3	4-Bromophenyl phenyl ether	190	U	ug/kg dry	190	11/01/10	11/09/10	CLP SOM01.2 B
59-50-7	4-Chloro-3-methylphenol	190	U	ug/kg dry	190	11/01/10	11/09/10	CLP SOM01.2 B
106-47-8	4-Chloroaniline	190	U	ug/kg dry	190	11/01/10	11/09/10	CLP SOM01.2 B
7005-72-3	4-Chlorophenyl phenyl ether	190	U	ug/kg dry	190	11/01/10	11/09/10	CLP SOM01.2 B
100-01-6	4-Nitroaniline	380	U	ug/kg dry	380	11/01/10	11/09/10	CLP SOM01.2 B
100-02-7	4-Nitrophenol	380	U	ug/kg dry	380	11/01/10	11/09/10	CLP SOM01.2 B
83-32-9	Acenaphthene	3.8	U	ug/kg dry	3.8	11/01/10	11/19/10	CLP SOM01.2 BS
208-96-8	Acenaphthylene	4.5		ug/kg dry	3.8	11/01/10	11/19/10	CLP SOM01.2 BS
98-86-2	Acetophenone	190	U	ug/kg dry	190	11/01/10	11/09/10	CLP SOM01.2 B



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D.A.R.T. Id: 11-0019
 Project: 11-0019, Tronox Inc - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 11-0019, Tronox Inc

Contract Lab Case: 40729

Sample ID: 12630ASF

Lab ID: C104601-21

MD No:

Station ID: 12630

Matrix: Surface Soil

D No: 6589 MITKEM

Date Collected: 10/25/10 17:03

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
120-12-7	Anthracene	4.7		ug/kg dry	3.8	11/01/10	11/19/10	CLP SOM01.2 BS
1912-24-9	Atrazine	190	U	ug/kg dry	190	11/01/10	11/09/10	CLP SOM01.2 B
100-52-7	Benzaldehyde	190	U	ug/kg dry	190	11/01/10	11/09/10	CLP SOM01.2 B
56-55-3	Benzo(a)anthracene	12		ug/kg dry	3.8	11/01/10	11/19/10	CLP SOM01.2 BS
50-32-8	Benzo(a)pyrene	35	J, QI-1	ug/kg dry	3.8	11/01/10	11/19/10	CLP SOM01.2 BS
205-99-2	Benzo(b)fluoranthene	47		ug/kg dry	15	11/01/10	11/20/10	CLP SOM01.2 BS
191-24-2	Benzo(g,h,i)perylene	33	J, QI-1	ug/kg dry	3.8	11/01/10	11/19/10	CLP SOM01.2 BS
207-08-9	Benzo(k)fluoranthene	27		ug/kg dry	15	11/01/10	11/20/10	CLP SOM01.2 BS
85-68-7	Benzyl butyl phthalate	190	U	ug/kg dry	190	11/01/10	11/09/10	CLP SOM01.2 B
111-91-1	Bis(2-chloroethoxy)methane	190	U	ug/kg dry	190	11/01/10	11/09/10	CLP SOM01.2 B
111-44-4	bis(2-Chloroethyl) Ether	190	U	ug/kg dry	190	11/01/10	11/09/10	CLP SOM01.2 B
39638-32-9	Bis(2-chloroisopropyl) ether	190	U	ug/kg dry	190	11/01/10	11/09/10	CLP SOM01.2 B
117-81-7	Bis(2-ethylhexyl) phthalate	190	U	ug/kg dry	190	11/01/10	11/09/10	CLP SOM01.2 B
105-60-2	Caprolactam	190	U	ug/kg dry	190	11/01/10	11/09/10	CLP SOM01.2 B
86-74-8	Carbazole	190	U	ug/kg dry	190	11/01/10	11/09/10	CLP SOM01.2 B
218-01-9	Chrysene	21		ug/kg dry	3.8	11/01/10	11/19/10	CLP SOM01.2 BS
53-70-3	Dibenzo(a,h)anthracene	11	J, QI-1	ug/kg dry	3.8	11/01/10	11/19/10	CLP SOM01.2 BS
132-64-9	Dibenzofuran	190	U	ug/kg dry	190	11/01/10	11/09/10	CLP SOM01.2 B
84-66-2	Diethyl phthalate	190	U	ug/kg dry	190	11/01/10	11/09/10	CLP SOM01.2 B
131-11-3	Dimethyl phthalate	190	U	ug/kg dry	190	11/01/10	11/09/10	CLP SOM01.2 B
84-74-2	Di-n-butylphthalate	190	U	ug/kg dry	190	11/01/10	11/09/10	CLP SOM01.2 B
117-84-0	Di-n-octylphthalate	190	U	ug/kg dry	190	11/01/10	11/09/10	CLP SOM01.2 B
206-44-0	Fluoranthene	25		ug/kg dry	3.8	11/01/10	11/19/10	CLP SOM01.2 BS
86-73-7	Fluorene	3.8	U	ug/kg dry	3.8	11/01/10	11/19/10	CLP SOM01.2 BS
118-74-1	Hexachlorobenzene (HCB)	190	U	ug/kg dry	190	11/01/10	11/09/10	CLP SOM01.2 B
87-68-3	Hexachlorobutadiene	190	U	ug/kg dry	190	11/01/10	11/09/10	CLP SOM01.2 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	190	U	ug/kg dry	190	11/01/10	11/09/10	CLP SOM01.2 B
67-72-1	Hexachloroethane	190	U	ug/kg dry	190	11/01/10	11/09/10	CLP SOM01.2 B
193-39-5	Indeno (1,2,3-cd) pyrene	35	J, QI-1	ug/kg dry	3.8	11/01/10	11/19/10	CLP SOM01.2 BS
78-59-1	Isophorone	190	U	ug/kg dry	190	11/01/10	11/09/10	CLP SOM01.2 B
91-20-3	Naphthalene	3.8	U	ug/kg dry	3.8	11/01/10	11/19/10	CLP SOM01.2 BS



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0019

Project: 11-0019, Tronox Inc - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 11-0019, Tronox Inc

Contract Lab Case: 40729

Sample ID: 12630ASF

Lab ID: C104601-21

MD No:

Station ID: 12630

Matrix: Surface Soil

D No: 6589 MITKEM

Date Collected: 10/25/10 17:03

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
98-95-3	Nitrobenzene	190	U	ug/kg dry	190	11/01/10	11/09/10	CLP SOM01.2 B
621-64-7	n-Nitroso di-n-Propylamine	190	U	ug/kg dry	190	11/01/10	11/09/10	CLP SOM01.2 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	190	U	ug/kg dry	190	11/01/10	11/09/10	CLP SOM01.2 B
87-86-5	Pentachlorophenol	380	U	ug/kg dry	380	11/01/10	11/09/10	CLP SOM01.2 B
85-01-8	Phenanthrene	8.5		ug/kg dry	3.8	11/01/10	11/19/10	CLP SOM01.2 BS
108-95-2	Phenol	190	U	ug/kg dry	190	11/01/10	11/09/10	CLP SOM01.2 B
129-00-0	Pyrene	22		ug/kg dry	3.8	11/01/10	11/19/10	CLP SOM01.2 BS
Tentatively Identified Compounds:								
83-46-5	.beta.-Sitosterol	200	NJ, CLP15	ug/kg dry		11/01/10	11/09/10	CLP SOM01.2 B
R4-6500	Petroleum Product:		N, CLP15			11/01/10	11/09/10	CLP SOM01.2 B
R4-6501	Unidentified Compound(s)	200	J, CLP15	ug/kg dry		11/01/10	11/09/10	CLP SOM01.2 B



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D.A.R.T. Id: 11-0019

Project: 11-0019, Tronox Inc - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 11-0019, Tronox Inc

Contract Lab Case: 40729

Sample ID: 12633ASF

Lab ID: C104601-22

MD No:

Station ID: 12633

Matrix: Surface Soil

D No: 6590 MITKEM

Date Collected: 10/26/10 8:50

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
1319-77-3	(3-and/or 4-)Methylphenol	190	U	ug/kg dry	190	11/11/10	11/16/10	CLP SOM01.2 B
92-52-4	1,1-Biphenyl	190	U	ug/kg dry	190	11/11/10	11/16/10	CLP SOM01.2 B
95-94-3	1,2,4,5-Tetrachlorobenzene	190	U	ug/kg dry	190	11/11/10	11/16/10	CLP SOM01.2 B
58-90-2	2,3,4,6-Tetrachlorophenol	190	U	ug/kg dry	190	11/11/10	11/16/10	CLP SOM01.2 B
95-95-4	2,4,5-Trichlorophenol	190	U	ug/kg dry	190	11/11/10	11/16/10	CLP SOM01.2 B
88-06-2	2,4,6-Trichlorophenol	190	U	ug/kg dry	190	11/11/10	11/16/10	CLP SOM01.2 B
120-83-2	2,4-Dichlorophenol	190	U	ug/kg dry	190	11/11/10	11/16/10	CLP SOM01.2 B
105-67-9	2,4-Dimethylphenol	190	U, J, CLP16	ug/kg dry	190	11/11/10	11/16/10	CLP SOM01.2 B
51-28-5	2,4-Dinitrophenol	370	U, J, QC-1, CLP16	ug/kg dry	370	11/11/10	11/16/10	CLP SOM01.2 B
121-14-2	2,4-Dinitrotoluene	190	U	ug/kg dry	190	11/11/10	11/16/10	CLP SOM01.2 B
606-20-2	2,6-Dinitrotoluene	190	U	ug/kg dry	190	11/11/10	11/16/10	CLP SOM01.2 B
91-58-7	2-Chloronaphthalene	190	U	ug/kg dry	190	11/11/10	11/16/10	CLP SOM01.2 B
95-57-8	2-Chlorophenol	190	U	ug/kg dry	190	11/11/10	11/16/10	CLP SOM01.2 B
534-52-1	2-Methyl-4,6-dinitrophenol	370	U, J, CLP16	ug/kg dry	370	11/11/10	11/16/10	CLP SOM01.2 B
91-57-6	2-Methylnaphthalene	3.7	U	ug/kg dry	3.7	11/11/10	11/13/10	CLP SOM01.2 BS
95-48-7	2-Methylphenol	190	U	ug/kg dry	190	11/11/10	11/16/10	CLP SOM01.2 B
88-74-4	2-Nitroaniline	370	U	ug/kg dry	370	11/11/10	11/16/10	CLP SOM01.2 B
88-75-5	2-Nitrophenol	190	U	ug/kg dry	190	11/11/10	11/16/10	CLP SOM01.2 B
91-94-1	3,3'-Dichlorobenzidine	190	U, J, QS-4	ug/kg dry	190	11/11/10	11/16/10	CLP SOM01.2 B
99-09-2	3-Nitroaniline	370	U	ug/kg dry	370	11/11/10	11/16/10	CLP SOM01.2 B
101-55-3	4-Bromophenyl phenyl ether	190	U	ug/kg dry	190	11/11/10	11/16/10	CLP SOM01.2 B
59-50-7	4-Chloro-3-methylphenol	190	U	ug/kg dry	190	11/11/10	11/16/10	CLP SOM01.2 B
106-47-8	4-Chloroaniline	190	U, J, QS-4	ug/kg dry	190	11/11/10	11/16/10	CLP SOM01.2 B
7005-72-3	4-Chlorophenyl phenyl ether	190	U	ug/kg dry	190	11/11/10	11/16/10	CLP SOM01.2 B
100-01-6	4-Nitroaniline	370	U	ug/kg dry	370	11/11/10	11/16/10	CLP SOM01.2 B
100-02-7	4-Nitrophenol	370	U	ug/kg dry	370	11/11/10	11/16/10	CLP SOM01.2 B
83-32-9	Acenaphthene	3.7	U	ug/kg dry	3.7	11/11/10	11/13/10	CLP SOM01.2 BS
208-96-8	Acenaphthylene	5.5		ug/kg dry	3.7	11/11/10	11/13/10	CLP SOM01.2 BS
98-86-2	Acetophenone	190	U	ug/kg dry	190	11/11/10	11/16/10	CLP SOM01.2 B



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D.A.R.T. Id: 11-0019

Project: 11-0019, Tronox Inc - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 11-0019, Tronox Inc

Contract Lab Case: 40729

Sample ID: 12633ASF

Lab ID: C104601-22

MD No:

Station ID: 12633

Matrix: Surface Soil

D No: 6590 MITKEM

Date Collected: 10/26/10 8:50

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
120-12-7	Anthracene	8.9		ug/kg dry	3.7	11/11/10	11/13/10	CLP SOM01.2 BS
1912-24-9	Atrazine	190	U	ug/kg dry	190	11/11/10	11/16/10	CLP SOM01.2 B
100-52-7	Benzaldehyde	190	U, J, CLP16	ug/kg dry	190	11/11/10	11/16/10	CLP SOM01.2 B
56-55-3	Benzo(a)anthracene	18		ug/kg dry	3.7	11/11/10	11/13/10	CLP SOM01.2 BS
50-32-8	Benzo(a)pyrene	23		ug/kg dry	3.7	11/11/10	11/13/10	CLP SOM01.2 BS
205-99-2	Benzo(b)fluoranthene	32		ug/kg dry	3.7	11/11/10	11/13/10	CLP SOM01.2 BS
191-24-2	Benzo(g,h,i)perylene	17		ug/kg dry	3.7	11/11/10	11/13/10	CLP SOM01.2 BS
207-08-9	Benzo(k)fluoranthene	19		ug/kg dry	3.7	11/11/10	11/13/10	CLP SOM01.2 BS
85-68-7	Benzyl butyl phthalate	190	U	ug/kg dry	190	11/11/10	11/16/10	CLP SOM01.2 B
111-91-1	Bis(2-chloroethoxy)methane	190	U	ug/kg dry	190	11/11/10	11/16/10	CLP SOM01.2 B
111-44-4	bis(2-Chloroethyl) Ether	190	U	ug/kg dry	190	11/11/10	11/16/10	CLP SOM01.2 B
39638-32-9	Bis(2-chloroisopropyl) ether	190	U	ug/kg dry	190	11/11/10	11/16/10	CLP SOM01.2 B
117-81-7	Bis(2-ethylhexyl) phthalate	200		ug/kg dry	190	11/11/10	11/16/10	CLP SOM01.2 B
105-60-2	Caprolactam	190	U	ug/kg dry	190	11/11/10	11/16/10	CLP SOM01.2 B
86-74-8	Carbazole	190	U	ug/kg dry	190	11/11/10	11/16/10	CLP SOM01.2 B
218-01-9	Chrysene	27		ug/kg dry	3.7	11/11/10	11/13/10	CLP SOM01.2 BS
53-70-3	Dibenzo(a,h)anthracene	11		ug/kg dry	3.7	11/11/10	11/13/10	CLP SOM01.2 BS
132-64-9	Dibenzofuran	190	U	ug/kg dry	190	11/11/10	11/16/10	CLP SOM01.2 B
84-66-2	Diethyl phthalate	190	U	ug/kg dry	190	11/11/10	11/16/10	CLP SOM01.2 B
131-11-3	Dimethyl phthalate	190	U	ug/kg dry	190	11/11/10	11/16/10	CLP SOM01.2 B
84-74-2	Di-n-butylphthalate	190	U	ug/kg dry	190	11/11/10	11/16/10	CLP SOM01.2 B
117-84-0	Di-n-octylphthalate	190	U	ug/kg dry	190	11/11/10	11/16/10	CLP SOM01.2 B
206-44-0	Fluoranthene	29		ug/kg dry	3.7	11/11/10	11/13/10	CLP SOM01.2 BS
86-73-7	Fluorene	4.4		ug/kg dry	3.7	11/11/10	11/13/10	CLP SOM01.2 BS
118-74-1	Hexachlorobenzene (HCB)	190	U	ug/kg dry	190	11/11/10	11/16/10	CLP SOM01.2 B
87-68-3	Hexachlorobutadiene	190	U	ug/kg dry	190	11/11/10	11/16/10	CLP SOM01.2 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	190	U, J, QS-4	ug/kg dry	190	11/11/10	11/16/10	CLP SOM01.2 B
67-72-1	Hexachloroethane	190	U	ug/kg dry	190	11/11/10	11/16/10	CLP SOM01.2 B
193-39-5	Indeno (1,2,3-cd) pyrene	17		ug/kg dry	3.7	11/11/10	11/13/10	CLP SOM01.2 BS
78-59-1	Isophorone	190	U	ug/kg dry	190	11/11/10	11/16/10	CLP SOM01.2 B
91-20-3	Naphthalene	3.7	U	ug/kg dry	3.7	11/11/10	11/13/10	CLP SOM01.2 BS



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 Region 4 Science and Ecosystem Support Division
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0019
 Project: 11-0019, Tronox Inc - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 11-0019, Tronox Inc

Contract Lab Case: 40729

Sample ID: 12633ASF

Lab ID: C104601-22

MD No:

Station ID: 12633

Matrix: Surface Soil

D No: 6590 MITKEM

Date Collected: 10/26/10 8:50

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
98-95-3	Nitrobenzene	190	U	ug/kg dry	190	11/11/10	11/16/10	CLP SOM01.2 B
621-64-7	n-Nitroso di-n-Propylamine	190	U	ug/kg dry	190	11/11/10	11/16/10	CLP SOM01.2 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	190	U	ug/kg dry	190	11/11/10	11/16/10	CLP SOM01.2 B
87-86-5	Pentachlorophenol	5.3	J, CLP01, CLP16, QC-1, QC-2	ug/kg dry	7.4	11/11/10	11/13/10	CLP SOM01.2 BS
85-01-8	Phenanthrene	13		ug/kg dry	3.7	11/11/10	11/13/10	CLP SOM01.2 BS
108-95-2	Phenol	190	U	ug/kg dry	190	11/11/10	11/16/10	CLP SOM01.2 B
129-00-0	Pyrene	30		ug/kg dry	3.7	11/11/10	11/13/10	CLP SOM01.2 BS
Tentatively Identified Compounds:								
19870-75-8	Cedrane, 8-propoxy-	300	NJ, CLP15	ug/kg dry		11/11/10	11/16/10	CLP SOM01.2 B
R4-6501	Unidentified Compound(s)	300	J, CLP15	ug/kg dry		11/11/10	11/16/10	CLP SOM01.2 B



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D.A.R.T. Id: 11-0019
Project: 11-0019, Tronox Inc - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 11-0019, Tronox Inc

Contract Lab Case: 40729

Sample ID: 12634ASF

Lab ID: C104601-23

MD No:

Station ID: 12634

Matrix: Surface Soil

D No: 6591 MITKEM

Date Collected: 10/26/10 9:07

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	14		%		11/03/10	11/13/10	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	200	U	ug/kg dry	200	11/03/10	11/13/10	CLP SOM01.2 B
92-52-4	1,1-Biphenyl	200	U	ug/kg dry	200	11/03/10	11/13/10	CLP SOM01.2 B
95-94-3	1,2,4,5-Tetrachlorobenzene	200	U	ug/kg dry	200	11/03/10	11/13/10	CLP SOM01.2 B
58-90-2	2,3,4,6-Tetrachlorophenol	200	U	ug/kg dry	200	11/03/10	11/13/10	CLP SOM01.2 B
95-95-4	2,4,5-Trichlorophenol	200	U	ug/kg dry	200	11/03/10	11/13/10	CLP SOM01.2 B
88-06-2	2,4,6-Trichlorophenol	200	U	ug/kg dry	200	11/03/10	11/13/10	CLP SOM01.2 B
120-83-2	2,4-Dichlorophenol	200	U	ug/kg dry	200	11/03/10	11/13/10	CLP SOM01.2 B
105-67-9	2,4-Dimethylphenol	200	U	ug/kg dry	200	11/03/10	11/13/10	CLP SOM01.2 B
51-28-5	2,4-Dinitrophenol	380	U, J, QC-1, CLP16	ug/kg dry	380	11/03/10	11/13/10	CLP SOM01.2 B
121-14-2	2,4-Dinitrotoluene	200	U	ug/kg dry	200	11/03/10	11/13/10	CLP SOM01.2 B
606-20-2	2,6-Dinitrotoluene	200	U	ug/kg dry	200	11/03/10	11/13/10	CLP SOM01.2 B
91-58-7	2-Chloronaphthalene	200	U	ug/kg dry	200	11/03/10	11/13/10	CLP SOM01.2 B
95-57-8	2-Chlorophenol	200	U	ug/kg dry	200	11/03/10	11/13/10	CLP SOM01.2 B
534-52-1	2-Methyl-4,6-dinitrophenol	380	U, J, QC-1	ug/kg dry	380	11/03/10	11/13/10	CLP SOM01.2 B
91-57-6	2-Methylnaphthalene	3.8	U	ug/kg dry	3.8	11/03/10	11/16/10	CLP SOM01.2 BS
95-48-7	2-Methylphenol	200	U	ug/kg dry	200	11/03/10	11/13/10	CLP SOM01.2 B
88-74-4	2-Nitroaniline	380	U	ug/kg dry	380	11/03/10	11/13/10	CLP SOM01.2 B
88-75-5	2-Nitrophenol	200	U	ug/kg dry	200	11/03/10	11/13/10	CLP SOM01.2 B
91-94-1	3,3'-Dichlorobenzidine	200	U, J, QS-4	ug/kg dry	200	11/03/10	11/13/10	CLP SOM01.2 B
99-09-2	3-Nitroaniline	380	U	ug/kg dry	380	11/03/10	11/13/10	CLP SOM01.2 B
101-55-3	4-Bromophenyl phenyl ether	200	U	ug/kg dry	200	11/03/10	11/13/10	CLP SOM01.2 B
59-50-7	4-Chloro-3-methylphenol	200	U	ug/kg dry	200	11/03/10	11/13/10	CLP SOM01.2 B
106-47-8	4-Chloroaniline	200	U, J, QS-4	ug/kg dry	200	11/03/10	11/13/10	CLP SOM01.2 B
7005-72-3	4-Chlorophenyl phenyl ether	200	U	ug/kg dry	200	11/03/10	11/13/10	CLP SOM01.2 B
100-01-6	4-Nitroaniline	380	U	ug/kg dry	380	11/03/10	11/13/10	CLP SOM01.2 B
100-02-7	4-Nitrophenol	380	U	ug/kg dry	380	11/03/10	11/13/10	CLP SOM01.2 B
83-32-9	Acenaphthene	3.8	U	ug/kg dry	3.8	11/03/10	11/16/10	CLP SOM01.2 BS
208-96-8	Acenaphthylene	12		ug/kg dry	3.8	11/03/10	11/16/10	CLP SOM01.2 BS



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D.A.R.T. Id: 11-0019
Project: 11-0019, Tronox Inc - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 11-0019, Tronox Inc

Contract Lab Case: 40729

Sample ID: 12634ASF

Lab ID: C104601-23

MD No:

Station ID: 12634

Matrix: Surface Soil

D No: 6591 MITKEM

Date Collected: 10/26/10 9:07

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
98-86-2	Acetophenone	200	U	ug/kg dry	200	11/03/10	11/13/10	CLP SOM01.2 B
120-12-7	Anthracene	13		ug/kg dry	3.8	11/03/10	11/16/10	CLP SOM01.2 BS
1912-24-9	Atrazine	200	U, J, QC-1	ug/kg dry	200	11/03/10	11/13/10	CLP SOM01.2 B
100-52-7	Benzaldehyde	200	U	ug/kg dry	200	11/03/10	11/13/10	CLP SOM01.2 B
56-55-3	Benzo(a)anthracene	53		ug/kg dry	38	11/03/10	11/16/10	CLP SOM01.2 BS
50-32-8	Benzo(a)pyrene	110		ug/kg dry	38	11/03/10	11/16/10	CLP SOM01.2 BS
205-99-2	Benzo(b)fluoranthene	200		ug/kg dry	38	11/03/10	11/16/10	CLP SOM01.2 BS
191-24-2	Benzo(g,h,i)perylene	92		ug/kg dry	38	11/03/10	11/16/10	CLP SOM01.2 BS
207-08-9	Benzo(k)fluoranthene	130	J, QC-2	ug/kg dry	38	11/03/10	11/16/10	CLP SOM01.2 BS
85-68-7	Benzyl butyl phthalate	200	U	ug/kg dry	200	11/03/10	11/13/10	CLP SOM01.2 B
111-91-1	Bis(2-chloroethoxy)methane	200	U	ug/kg dry	200	11/03/10	11/13/10	CLP SOM01.2 B
111-44-4	bis(2-Chloroethyl) Ether	200	U	ug/kg dry	200	11/03/10	11/13/10	CLP SOM01.2 B
39638-32-9	Bis(2-chloroisopropyl) ether	200	U	ug/kg dry	200	11/03/10	11/13/10	CLP SOM01.2 B
117-81-7	Bis(2-ethylhexyl) phthalate	1000		ug/kg dry	200	11/03/10	11/13/10	CLP SOM01.2 B
105-60-2	Caprolactam	200	U	ug/kg dry	200	11/03/10	11/13/10	CLP SOM01.2 B
86-74-8	Carbazole	200	U	ug/kg dry	200	11/03/10	11/13/10	CLP SOM01.2 B
218-01-9	Chrysene	95		ug/kg dry	38	11/03/10	11/16/10	CLP SOM01.2 BS
53-70-3	Dibenzo(a,h)anthracene	21		ug/kg dry	3.8	11/03/10	11/16/10	CLP SOM01.2 BS
132-64-9	Dibenzofuran	200	U	ug/kg dry	200	11/03/10	11/13/10	CLP SOM01.2 B
84-66-2	Diethyl phthalate	200	U	ug/kg dry	200	11/03/10	11/13/10	CLP SOM01.2 B
131-11-3	Dimethyl phthalate	200	U	ug/kg dry	200	11/03/10	11/13/10	CLP SOM01.2 B
84-74-2	Di-n-butylphthalate	200	U	ug/kg dry	200	11/03/10	11/13/10	CLP SOM01.2 B
117-84-0	Di-n-octylphthalate	200	U	ug/kg dry	200	11/03/10	11/13/10	CLP SOM01.2 B
206-44-0	Fluoranthene	77		ug/kg dry	38	11/03/10	11/16/10	CLP SOM01.2 BS
86-73-7	Fluorene	3.8	U	ug/kg dry	3.8	11/03/10	11/16/10	CLP SOM01.2 BS
118-74-1	Hexachlorobenzene (HCB)	200	U	ug/kg dry	200	11/03/10	11/13/10	CLP SOM01.2 B
87-68-3	Hexachlorobutadiene	200	U	ug/kg dry	200	11/03/10	11/13/10	CLP SOM01.2 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	200	U, J, QS-4	ug/kg dry	200	11/03/10	11/13/10	CLP SOM01.2 B
67-72-1	Hexachloroethane	200	U	ug/kg dry	200	11/03/10	11/13/10	CLP SOM01.2 B
193-39-5	Indeno (1,2,3-cd) pyrene	86		ug/kg dry	38	11/03/10	11/16/10	CLP SOM01.2 BS
78-59-1	Isophorone	200	U	ug/kg dry	200	11/03/10	11/13/10	CLP SOM01.2 B



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 4 Science and Ecosystem Support Division
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0019
 Project: 11-0019, Tronox Inc - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 11-0019, Tronox Inc

Contract Lab Case: 40729

Sample ID: 12634ASF

Lab ID: C104601-23

MD No:

Station ID: 12634

Matrix: Surface Soil

D No: 6591 MITKEM

Date Collected: 10/26/10 9:07

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
91-20-3	Naphthalene	3.8	U	ug/kg dry	3.8	11/03/10	11/16/10	CLP SOM01.2 BS
98-95-3	Nitrobenzene	200	U	ug/kg dry	200	11/03/10	11/13/10	CLP SOM01.2 B
621-64-7	n-Nitroso di-n-Propylamine	200	U	ug/kg dry	200	11/03/10	11/13/10	CLP SOM01.2 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	200	U	ug/kg dry	200	11/03/10	11/13/10	CLP SOM01.2 B
87-86-5	Pentachlorophenol	4.6	J, CLP01, CLP16, QC-1	ug/kg dry	7.7	11/03/10	11/16/10	CLP SOM01.2 BS
85-01-8	Phenanthrene	21		ug/kg dry	3.8	11/03/10	11/16/10	CLP SOM01.2 BS
108-95-2	Phenol	200	U	ug/kg dry	200	11/03/10	11/13/10	CLP SOM01.2 B
129-00-0	Pyrene	110	J, QC-2	ug/kg dry	38	11/03/10	11/16/10	CLP SOM01.2 BS
Tentatively Identified Compounds:								
R4-6500	Petroleum Product:		N, CLP15			11/03/10	11/13/10	CLP SOM01.2 B
R4-6501	Unidentified Compound(s)	6000	J, CLP15	ug/kg dry		11/03/10	11/13/10	CLP SOM01.2 B



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D.A.R.T. Id: 11-0019

Project: 11-0019, Tronox Inc - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 11-0019, Tronox Inc

Contract Lab Case: 40729

Sample ID: 13723ASF

Lab ID: C104601-24

MD No:

Station ID: 13723

Matrix: Surface Soil

D No: 65B3 MITKEM

Date Collected: 10/25/10 17:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	15		%		11/04/10	11/11/10	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	200	U	ug/kg dry	200	11/04/10	11/11/10	CLP SOM01.2 B
92-52-4	1,1-Biphenyl	200	U	ug/kg dry	200	11/04/10	11/11/10	CLP SOM01.2 B
95-94-3	1,2,4,5-Tetrachlorobenzene	200	U	ug/kg dry	200	11/04/10	11/11/10	CLP SOM01.2 B
58-90-2	2,3,4,6-Tetrachlorophenol	200	U	ug/kg dry	200	11/04/10	11/11/10	CLP SOM01.2 B
95-95-4	2,4,5-Trichlorophenol	200	U	ug/kg dry	200	11/04/10	11/11/10	CLP SOM01.2 B
88-06-2	2,4,6-Trichlorophenol	200	U	ug/kg dry	200	11/04/10	11/11/10	CLP SOM01.2 B
120-83-2	2,4-Dichlorophenol	200	U	ug/kg dry	200	11/04/10	11/11/10	CLP SOM01.2 B
105-67-9	2,4-Dimethylphenol	200	U	ug/kg dry	200	11/04/10	11/11/10	CLP SOM01.2 B
51-28-5	2,4-Dinitrophenol	390	U, J, CLP16	ug/kg dry	390	11/04/10	11/11/10	CLP SOM01.2 B
121-14-2	2,4-Dinitrotoluene	200	U	ug/kg dry	200	11/04/10	11/11/10	CLP SOM01.2 B
606-20-2	2,6-Dinitrotoluene	200	U	ug/kg dry	200	11/04/10	11/11/10	CLP SOM01.2 B
91-58-7	2-Chloronaphthalene	200	U	ug/kg dry	200	11/04/10	11/11/10	CLP SOM01.2 B
95-57-8	2-Chlorophenol	200	U	ug/kg dry	200	11/04/10	11/11/10	CLP SOM01.2 B
534-52-1	2-Methyl-4,6-dinitrophenol	390	U	ug/kg dry	390	11/04/10	11/11/10	CLP SOM01.2 B
91-57-6	2-Methylnaphthalene	7.7		ug/kg dry	3.9	11/04/10	11/15/10	CLP SOM01.2 BS
95-48-7	2-Methylphenol	200	U	ug/kg dry	200	11/04/10	11/11/10	CLP SOM01.2 B
88-74-4	2-Nitroaniline	390	U	ug/kg dry	390	11/04/10	11/11/10	CLP SOM01.2 B
88-75-5	2-Nitrophenol	200	U	ug/kg dry	200	11/04/10	11/11/10	CLP SOM01.2 B
91-94-1	3,3'-Dichlorobenzidine	200	U	ug/kg dry	200	11/04/10	11/11/10	CLP SOM01.2 B
99-09-2	3-Nitroaniline	390	U	ug/kg dry	390	11/04/10	11/11/10	CLP SOM01.2 B
101-55-3	4-Bromophenyl phenyl ether	200	U	ug/kg dry	200	11/04/10	11/11/10	CLP SOM01.2 B
59-50-7	4-Chloro-3-methylphenol	200	U	ug/kg dry	200	11/04/10	11/11/10	CLP SOM01.2 B
106-47-8	4-Chloroaniline	200	U	ug/kg dry	200	11/04/10	11/11/10	CLP SOM01.2 B
7005-72-3	4-Chlorophenyl phenyl ether	200	U	ug/kg dry	200	11/04/10	11/11/10	CLP SOM01.2 B
100-01-6	4-Nitroaniline	390	U	ug/kg dry	390	11/04/10	11/11/10	CLP SOM01.2 B
100-02-7	4-Nitrophenol	390	U	ug/kg dry	390	11/04/10	11/11/10	CLP SOM01.2 B
83-32-9	Acenaphthene	3.9	U	ug/kg dry	3.9	11/04/10	11/15/10	CLP SOM01.2 BS
208-96-8	Acenaphthylene	85		ug/kg dry	39	11/04/10	11/15/10	CLP SOM01.2 BS
98-86-2	Acetophenone	200	U	ug/kg dry	200	11/04/10	11/11/10	CLP SOM01.2 B



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D.A.R.T. Id: 11-0019
Project: 11-0019, Tronox Inc - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 11-0019, Tronox Inc

Contract Lab Case: 40729

Sample ID: 13723ASF

Lab ID: C104601-24

MD No:

Station ID: 13723

Matrix: Surface Soil

D No: 65B3 MITKEM

Date Collected: 10/25/10 17:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
120-12-7	Anthracene	63		ug/kg dry	39	11/04/10	11/15/10	CLP SOM01.2 BS
1912-24-9	Atrazine	200	U, J, QC-1	ug/kg dry	200	11/04/10	11/11/10	CLP SOM01.2 B
100-52-7	Benzaldehyde	200	U	ug/kg dry	200	11/04/10	11/11/10	CLP SOM01.2 B
56-55-3	Benzo(a)anthracene	140		ug/kg dry	39	11/04/10	11/15/10	CLP SOM01.2 BS
50-32-8	Benzo(a)pyrene	280		ug/kg dry	39	11/04/10	11/15/10	CLP SOM01.2 BS
205-99-2	Benzo(b)fluoranthene	420		ug/kg dry	200	11/04/10	11/11/10	CLP SOM01.2 B
191-24-2	Benzo(g,h,i)perylene	260		ug/kg dry	39	11/04/10	11/15/10	CLP SOM01.2 BS
207-08-9	Benzo(k)fluoranthene	260		ug/kg dry	39	11/04/10	11/15/10	CLP SOM01.2 BS
85-68-7	Benzyl butyl phthalate	200	U	ug/kg dry	200	11/04/10	11/11/10	CLP SOM01.2 B
111-91-1	Bis(2-chloroethoxy)methane	200	U	ug/kg dry	200	11/04/10	11/11/10	CLP SOM01.2 B
111-44-4	bis(2-Chloroethyl) Ether	200	U	ug/kg dry	200	11/04/10	11/11/10	CLP SOM01.2 B
39638-32-9	Bis(2-chloroisopropyl) ether	200	U	ug/kg dry	200	11/04/10	11/11/10	CLP SOM01.2 B
117-81-7	Bis(2-ethylhexyl) phthalate	410		ug/kg dry	200	11/04/10	11/11/10	CLP SOM01.2 B
105-60-2	Caprolactam	200	U	ug/kg dry	200	11/04/10	11/11/10	CLP SOM01.2 B
86-74-8	Carbazole	200	U	ug/kg dry	200	11/04/10	11/11/10	CLP SOM01.2 B
218-01-9	Chrysene	220		ug/kg dry	200	11/04/10	11/11/10	CLP SOM01.2 B
53-70-3	Dibenzo(a,h)anthracene	76		ug/kg dry	39	11/04/10	11/15/10	CLP SOM01.2 BS
132-64-9	Dibenzofuran	200	U	ug/kg dry	200	11/04/10	11/11/10	CLP SOM01.2 B
84-66-2	Diethyl phthalate	200	U	ug/kg dry	200	11/04/10	11/11/10	CLP SOM01.2 B
131-11-3	Dimethyl phthalate	200	U	ug/kg dry	200	11/04/10	11/11/10	CLP SOM01.2 B
84-74-2	Di-n-butylphthalate	200	U	ug/kg dry	200	11/04/10	11/11/10	CLP SOM01.2 B
117-84-0	Di-n-octylphthalate	200	U	ug/kg dry	200	11/04/10	11/11/10	CLP SOM01.2 B
206-44-0	Fluoranthene	210		ug/kg dry	39	11/04/10	11/15/10	CLP SOM01.2 BS
86-73-7	Fluorene	3.9	U	ug/kg dry	3.9	11/04/10	11/15/10	CLP SOM01.2 BS
118-74-1	Hexachlorobenzene (HCB)	200	U	ug/kg dry	200	11/04/10	11/11/10	CLP SOM01.2 B
87-68-3	Hexachlorobutadiene	200	U	ug/kg dry	200	11/04/10	11/11/10	CLP SOM01.2 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	200	U	ug/kg dry	200	11/04/10	11/11/10	CLP SOM01.2 B
67-72-1	Hexachloroethane	200	U	ug/kg dry	200	11/04/10	11/11/10	CLP SOM01.2 B
193-39-5	Indeno (1,2,3-cd) pyrene	240		ug/kg dry	39	11/04/10	11/15/10	CLP SOM01.2 BS
78-59-1	Isophorone	200	U	ug/kg dry	200	11/04/10	11/11/10	CLP SOM01.2 B
91-20-3	Naphthalene	5.4		ug/kg dry	3.9	11/04/10	11/15/10	CLP SOM01.2 BS



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980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0019

Project: 11-0019, Tronox Inc - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 11-0019, Tronox Inc

Contract Lab Case: 40729

Sample ID: 13723ASF

Lab ID: C104601-24

MD No:

Station ID: 13723

Matrix: Surface Soil

D No: 65B3 MITKEM

Date Collected: 10/25/10 17:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
98-95-3	Nitrobenzene	200	U	ug/kg dry	200	11/04/10	11/11/10	CLP SOM01.2 B
621-64-7	n-Nitroso di-n-Propylamine	200	U	ug/kg dry	200	11/04/10	11/11/10	CLP SOM01.2 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	200	U	ug/kg dry	200	11/04/10	11/11/10	CLP SOM01.2 B
87-86-5	Pentachlorophenol	58	J, CLP02, CLP16	ug/kg dry	7.8	11/04/10	11/15/10	CLP SOM01.2 BS
85-01-8	Phenanthrene	49		ug/kg dry	39	11/04/10	11/15/10	CLP SOM01.2 BS
108-95-2	Phenol	200	U	ug/kg dry	200	11/04/10	11/11/10	CLP SOM01.2 B
129-00-0	Pyrene	260		ug/kg dry	200	11/04/10	11/11/10	CLP SOM01.2 B
Tentatively Identified Compounds:								
R4-6500	Petroleum Product:		N, CLP15			11/04/10	11/11/10	CLP SOM01.2 B
R4-6501	Unidentified Compound(s)	3000	J, CLP15	ug/kg dry		11/04/10	11/11/10	CLP SOM01.2 B



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D.A.R.T. Id: 11-0019

Project: 11-0019, Tronox Inc - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 11-0019, Tronox Inc

Contract Lab Case: 40729

Sample ID: 13743ASF

Lab ID: C104601-25

MD No:

Station ID: 13743

Matrix: Surface Soil

D No: 65B4 MITKEM

Date Collected: 10/25/10 17:20

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	14		%		11/04/10	11/09/10	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	200	U	ug/kg dry	200	11/04/10	11/09/10	CLP SOM01.2 B
92-52-4	1,1-Biphenyl	200	U	ug/kg dry	200	11/04/10	11/09/10	CLP SOM01.2 B
95-94-3	1,2,4,5-Tetrachlorobenzene	200	U	ug/kg dry	200	11/04/10	11/09/10	CLP SOM01.2 B
58-90-2	2,3,4,6-Tetrachlorophenol	200	U	ug/kg dry	200	11/04/10	11/09/10	CLP SOM01.2 B
95-95-4	2,4,5-Trichlorophenol	200	U	ug/kg dry	200	11/04/10	11/09/10	CLP SOM01.2 B
88-06-2	2,4,6-Trichlorophenol	200	U	ug/kg dry	200	11/04/10	11/09/10	CLP SOM01.2 B
120-83-2	2,4-Dichlorophenol	200	U	ug/kg dry	200	11/04/10	11/09/10	CLP SOM01.2 B
105-67-9	2,4-Dimethylphenol	200	U, J, QC-1	ug/kg dry	200	11/04/10	11/09/10	CLP SOM01.2 B
51-28-5	2,4-Dinitrophenol	380	U, J, QC-1, CLP16	ug/kg dry	380	11/04/10	11/09/10	CLP SOM01.2 B
121-14-2	2,4-Dinitrotoluene	200	U	ug/kg dry	200	11/04/10	11/09/10	CLP SOM01.2 B
606-20-2	2,6-Dinitrotoluene	200	U	ug/kg dry	200	11/04/10	11/09/10	CLP SOM01.2 B
91-58-7	2-Chloronaphthalene	200	U	ug/kg dry	200	11/04/10	11/09/10	CLP SOM01.2 B
95-57-8	2-Chlorophenol	200	U	ug/kg dry	200	11/04/10	11/09/10	CLP SOM01.2 B
534-52-1	2-Methyl-4,6-dinitrophenol	380	U, J, QC-1	ug/kg dry	380	11/04/10	11/09/10	CLP SOM01.2 B
91-57-6	2-Methylnaphthalene	3.8	U	ug/kg dry	3.8	11/04/10	11/15/10	CLP SOM01.2 BS
95-48-7	2-Methylphenol	200	U	ug/kg dry	200	11/04/10	11/09/10	CLP SOM01.2 B
88-74-4	2-Nitroaniline	380	U	ug/kg dry	380	11/04/10	11/09/10	CLP SOM01.2 B
88-75-5	2-Nitrophenol	200	U	ug/kg dry	200	11/04/10	11/09/10	CLP SOM01.2 B
91-94-1	3,3'-Dichlorobenzidine	200	U	ug/kg dry	200	11/04/10	11/09/10	CLP SOM01.2 B
99-09-2	3-Nitroaniline	380	U	ug/kg dry	380	11/04/10	11/09/10	CLP SOM01.2 B
101-55-3	4-Bromophenyl phenyl ether	200	U	ug/kg dry	200	11/04/10	11/09/10	CLP SOM01.2 B
59-50-7	4-Chloro-3-methylphenol	200	U	ug/kg dry	200	11/04/10	11/09/10	CLP SOM01.2 B
106-47-8	4-Chloroaniline	200	U	ug/kg dry	200	11/04/10	11/09/10	CLP SOM01.2 B
7005-72-3	4-Chlorophenyl phenyl ether	200	U	ug/kg dry	200	11/04/10	11/09/10	CLP SOM01.2 B
100-01-6	4-Nitroaniline	380	U	ug/kg dry	380	11/04/10	11/09/10	CLP SOM01.2 B
100-02-7	4-Nitrophenol	380	U	ug/kg dry	380	11/04/10	11/09/10	CLP SOM01.2 B
83-32-9	Acenaphthene	3.8	U	ug/kg dry	3.8	11/04/10	11/15/10	CLP SOM01.2 BS
208-96-8	Acenaphthylene	16		ug/kg dry	3.8	11/04/10	11/15/10	CLP SOM01.2 BS



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D.A.R.T. Id: 11-0019

Project: 11-0019, Tronox Inc - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 11-0019, Tronox Inc

Contract Lab Case: 40729

Sample ID: 13743ASF

Lab ID: C104601-25

MD No:

Station ID: 13743

Matrix: Surface Soil

D No: 65B4 MITKEM

Date Collected: 10/25/10 17:20

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
98-86-2	Acetophenone	200	U	ug/kg dry	200	11/04/10	11/09/10	CLP SOM01.2 B
120-12-7	Anthracene	19		ug/kg dry	3.8	11/04/10	11/15/10	CLP SOM01.2 BS
1912-24-9	Atrazine	200	U	ug/kg dry	200	11/04/10	11/09/10	CLP SOM01.2 B
100-52-7	Benzaldehyde	200	U	ug/kg dry	200	11/04/10	11/09/10	CLP SOM01.2 B
56-55-3	Benzo(a)anthracene	86		ug/kg dry	38	11/04/10	11/15/10	CLP SOM01.2 BS
50-32-8	Benzo(a)pyrene	120		ug/kg dry	38	11/04/10	11/15/10	CLP SOM01.2 BS
205-99-2	Benzo(b)fluoranthene	220		ug/kg dry	38	11/04/10	11/15/10	CLP SOM01.2 BS
191-24-2	Benzo(g,h,i)perylene	85		ug/kg dry	38	11/04/10	11/15/10	CLP SOM01.2 BS
207-08-9	Benzo(k)fluoranthene	100		ug/kg dry	38	11/04/10	11/15/10	CLP SOM01.2 BS
85-68-7	Benzyl butyl phthalate	200	U	ug/kg dry	200	11/04/10	11/09/10	CLP SOM01.2 B
111-91-1	Bis(2-chloroethoxy)methane	200	U	ug/kg dry	200	11/04/10	11/09/10	CLP SOM01.2 B
111-44-4	bis(2-Chloroethyl) Ether	200	U	ug/kg dry	200	11/04/10	11/09/10	CLP SOM01.2 B
39638-32-9	Bis(2-chloroisopropyl) ether	200	U	ug/kg dry	200	11/04/10	11/09/10	CLP SOM01.2 B
117-81-7	Bis(2-ethylhexyl) phthalate	200	U	ug/kg dry	200	11/04/10	11/09/10	CLP SOM01.2 B
105-60-2	Caprolactam	200	U	ug/kg dry	200	11/04/10	11/09/10	CLP SOM01.2 B
86-74-8	Carbazole	200	U	ug/kg dry	200	11/04/10	11/09/10	CLP SOM01.2 B
218-01-9	Chrysene	110		ug/kg dry	38	11/04/10	11/15/10	CLP SOM01.2 BS
53-70-3	Dibenzo(a,h)anthracene	26		ug/kg dry	3.8	11/04/10	11/15/10	CLP SOM01.2 BS
132-64-9	Dibenzofuran	200	U	ug/kg dry	200	11/04/10	11/09/10	CLP SOM01.2 B
84-66-2	Diethyl phthalate	200	U	ug/kg dry	200	11/04/10	11/09/10	CLP SOM01.2 B
131-11-3	Dimethyl phthalate	200	U	ug/kg dry	200	11/04/10	11/09/10	CLP SOM01.2 B
84-74-2	Di-n-butylphthalate	200	U	ug/kg dry	200	11/04/10	11/09/10	CLP SOM01.2 B
117-84-0	Di-n-octylphthalate	200	U	ug/kg dry	200	11/04/10	11/09/10	CLP SOM01.2 B
206-44-0	Fluoranthene	100		ug/kg dry	38	11/04/10	11/15/10	CLP SOM01.2 BS
86-73-7	Fluorene	3.8	U	ug/kg dry	3.8	11/04/10	11/15/10	CLP SOM01.2 BS
118-74-1	Hexachlorobenzene (HCB)	200	U	ug/kg dry	200	11/04/10	11/09/10	CLP SOM01.2 B
87-68-3	Hexachlorobutadiene	200	U	ug/kg dry	200	11/04/10	11/09/10	CLP SOM01.2 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	200	U	ug/kg dry	200	11/04/10	11/09/10	CLP SOM01.2 B
67-72-1	Hexachloroethane	200	U	ug/kg dry	200	11/04/10	11/09/10	CLP SOM01.2 B
193-39-5	Indeno (1,2,3-cd) pyrene	78		ug/kg dry	38	11/04/10	11/15/10	CLP SOM01.2 BS
78-59-1	Isophorone	200	U	ug/kg dry	200	11/04/10	11/09/10	CLP SOM01.2 B



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 4 Science and Ecosystem Support Division
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0019
 Project: 11-0019, Tronox Inc - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 11-0019, Tronox Inc

Contract Lab Case: 40729

Sample ID: 13743ASF

Lab ID: C104601-25

MD No:

Station ID: 13743

Matrix: Surface Soil

D No: 65B4 MITKEM

Date Collected: 10/25/10 17:20

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
91-20-3	Naphthalene	3.8	U	ug/kg dry	3.8	11/04/10	11/15/10	CLP SOM01.2 BS
98-95-3	Nitrobenzene	200	U	ug/kg dry	200	11/04/10	11/09/10	CLP SOM01.2 B
621-64-7	n-Nitroso di-n-Propylamine	200	U	ug/kg dry	200	11/04/10	11/09/10	CLP SOM01.2 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	200	U	ug/kg dry	200	11/04/10	11/09/10	CLP SOM01.2 B
87-86-5	Pentachlorophenol	8.3	J, CLP16	ug/kg dry	7.7	11/04/10	11/15/10	CLP SOM01.2 BS
85-01-8	Phenanthrene	22		ug/kg dry	3.8	11/04/10	11/15/10	CLP SOM01.2 BS
108-95-2	Phenol	200	U	ug/kg dry	200	11/04/10	11/09/10	CLP SOM01.2 B
129-00-0	Pyrene	110		ug/kg dry	38	11/04/10	11/15/10	CLP SOM01.2 BS
Tentatively Identified Compounds:								
57-10-3	n-Hexadecanoic acid	300	NJ, CLP15	ug/kg dry		11/04/10	11/09/10	CLP SOM01.2 B
R4-6500	Petroleum Product:		N, CLP15			11/04/10	11/09/10	CLP SOM01.2 B
58-22-0	Testosterone	200	NJ, CLP15	ug/kg dry		11/04/10	11/09/10	CLP SOM01.2 B
R4-6501	Unidentified Compound(s)	800	J, CLP15	ug/kg dry		11/04/10	11/09/10	CLP SOM01.2 B



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D.A.R.T. Id: 11-0019
Project: 11-0019, Tronox Inc - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 11-0019, Tronox Inc

Contract Lab Case: 40729

Sample ID: 13744ASF

Lab ID: C104601-26

MD No:

Station ID: 13744A

Matrix: Surface Soil

D No: 65B5 MITKEM

Date Collected: 10/25/10 15:50

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	37		%		11/04/10	11/09/10	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	270	U	ug/kg dry	270	11/04/10	11/09/10	CLP SOM01.2 B
92-52-4	1,1-Biphenyl	270	U	ug/kg dry	270	11/04/10	11/09/10	CLP SOM01.2 B
95-94-3	1,2,4,5-Tetrachlorobenzene	270	U	ug/kg dry	270	11/04/10	11/09/10	CLP SOM01.2 B
58-90-2	2,3,4,6-Tetrachlorophenol	270	U	ug/kg dry	270	11/04/10	11/09/10	CLP SOM01.2 B
95-95-4	2,4,5-Trichlorophenol	270	U	ug/kg dry	270	11/04/10	11/09/10	CLP SOM01.2 B
88-06-2	2,4,6-Trichlorophenol	270	U	ug/kg dry	270	11/04/10	11/09/10	CLP SOM01.2 B
120-83-2	2,4-Dichlorophenol	270	U	ug/kg dry	270	11/04/10	11/09/10	CLP SOM01.2 B
105-67-9	2,4-Dimethylphenol	270	U, J, QC-1	ug/kg dry	270	11/04/10	11/09/10	CLP SOM01.2 B
51-28-5	2,4-Dinitrophenol	520	U, J, QC-1, CLP16	ug/kg dry	520	11/04/10	11/09/10	CLP SOM01.2 B
121-14-2	2,4-Dinitrotoluene	270	U	ug/kg dry	270	11/04/10	11/09/10	CLP SOM01.2 B
606-20-2	2,6-Dinitrotoluene	270	U	ug/kg dry	270	11/04/10	11/09/10	CLP SOM01.2 B
91-58-7	2-Chloronaphthalene	270	U	ug/kg dry	270	11/04/10	11/09/10	CLP SOM01.2 B
95-57-8	2-Chlorophenol	270	U	ug/kg dry	270	11/04/10	11/09/10	CLP SOM01.2 B
534-52-1	2-Methyl-4,6-dinitrophenol	520	U, J, QC-1	ug/kg dry	520	11/04/10	11/09/10	CLP SOM01.2 B
91-57-6	2-Methylnaphthalene	6.2		ug/kg dry	5.2	11/04/10	11/15/10	CLP SOM01.2 BS
95-48-7	2-Methylphenol	270	U	ug/kg dry	270	11/04/10	11/09/10	CLP SOM01.2 B
88-74-4	2-Nitroaniline	520	U	ug/kg dry	520	11/04/10	11/09/10	CLP SOM01.2 B
88-75-5	2-Nitrophenol	270	U	ug/kg dry	270	11/04/10	11/09/10	CLP SOM01.2 B
91-94-1	3,3'-Dichlorobenzidine	270	U	ug/kg dry	270	11/04/10	11/09/10	CLP SOM01.2 B
99-09-2	3-Nitroaniline	520	U	ug/kg dry	520	11/04/10	11/09/10	CLP SOM01.2 B
101-55-3	4-Bromophenyl phenyl ether	270	U	ug/kg dry	270	11/04/10	11/09/10	CLP SOM01.2 B
59-50-7	4-Chloro-3-methylphenol	270	U	ug/kg dry	270	11/04/10	11/09/10	CLP SOM01.2 B
106-47-8	4-Chloroaniline	270	U	ug/kg dry	270	11/04/10	11/09/10	CLP SOM01.2 B
7005-72-3	4-Chlorophenyl phenyl ether	270	U	ug/kg dry	270	11/04/10	11/09/10	CLP SOM01.2 B
100-01-6	4-Nitroaniline	520	U	ug/kg dry	520	11/04/10	11/09/10	CLP SOM01.2 B
100-02-7	4-Nitrophenol	520	U	ug/kg dry	520	11/04/10	11/09/10	CLP SOM01.2 B
83-32-9	Acenaphthene	5.2	U	ug/kg dry	5.2	11/04/10	11/15/10	CLP SOM01.2 BS
208-96-8	Acenaphthylene	73		ug/kg dry	52	11/04/10	11/15/10	CLP SOM01.2 BS



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D.A.R.T. Id: 11-0019

Project: 11-0019, Tronox Inc - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 11-0019, Tronox Inc

Contract Lab Case: 40729

Sample ID: 13744ASF

Lab ID: C104601-26

MD No:

Station ID: 13744A

Matrix: Surface Soil

D No: 65B5 MITKEM

Date Collected: 10/25/10 15:50

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
98-86-2	Acetophenone	270	U	ug/kg dry	270	11/04/10	11/09/10	CLP SOM01.2 B
120-12-7	Anthracene	61	J, CLP02	ug/kg dry	5.2	11/04/10	11/15/10	CLP SOM01.2 BS
1912-24-9	Atrazine	270	U	ug/kg dry	270	11/04/10	11/09/10	CLP SOM01.2 B
100-52-7	Benzaldehyde	270	U	ug/kg dry	270	11/04/10	11/09/10	CLP SOM01.2 B
56-55-3	Benzo(a)anthracene	120		ug/kg dry	52	11/04/10	11/15/10	CLP SOM01.2 BS
50-32-8	Benzo(a)pyrene	250		ug/kg dry	52	11/04/10	11/15/10	CLP SOM01.2 BS
205-99-2	Benzo(b)fluoranthene	420		ug/kg dry	270	11/04/10	11/09/10	CLP SOM01.2 B
191-24-2	Benzo(g,h,i)perylene	220		ug/kg dry	52	11/04/10	11/15/10	CLP SOM01.2 BS
207-08-9	Benzo(k)fluoranthene	220		ug/kg dry	52	11/04/10	11/15/10	CLP SOM01.2 BS
85-68-7	Benzyl butyl phthalate	270	U	ug/kg dry	270	11/04/10	11/09/10	CLP SOM01.2 B
111-91-1	Bis(2-chloroethoxy)methane	270	U	ug/kg dry	270	11/04/10	11/09/10	CLP SOM01.2 B
111-44-4	bis(2-Chloroethyl) Ether	270	U	ug/kg dry	270	11/04/10	11/09/10	CLP SOM01.2 B
39638-32-9	Bis(2-chloroisopropyl) ether	270	U	ug/kg dry	270	11/04/10	11/09/10	CLP SOM01.2 B
117-81-7	Bis(2-ethylhexyl) phthalate	290		ug/kg dry	270	11/04/10	11/09/10	CLP SOM01.2 B
105-60-2	Caprolactam	270	U	ug/kg dry	270	11/04/10	11/09/10	CLP SOM01.2 B
86-74-8	Carbazole	270	U	ug/kg dry	270	11/04/10	11/09/10	CLP SOM01.2 B
218-01-9	Chrysene	190		ug/kg dry	52	11/04/10	11/15/10	CLP SOM01.2 BS
53-70-3	Dibenzo(a,h)anthracene	62		ug/kg dry	52	11/04/10	11/15/10	CLP SOM01.2 BS
132-64-9	Dibenzofuran	270	U	ug/kg dry	270	11/04/10	11/09/10	CLP SOM01.2 B
84-66-2	Diethyl phthalate	270	U	ug/kg dry	270	11/04/10	11/09/10	CLP SOM01.2 B
131-11-3	Dimethyl phthalate	270	U	ug/kg dry	270	11/04/10	11/09/10	CLP SOM01.2 B
84-74-2	Di-n-butylphthalate	270	U	ug/kg dry	270	11/04/10	11/09/10	CLP SOM01.2 B
117-84-0	Di-n-octylphthalate	270	U	ug/kg dry	270	11/04/10	11/09/10	CLP SOM01.2 B
206-44-0	Fluoranthene	180		ug/kg dry	52	11/04/10	11/15/10	CLP SOM01.2 BS
86-73-7	Fluorene	5.2	U	ug/kg dry	5.2	11/04/10	11/15/10	CLP SOM01.2 BS
118-74-1	Hexachlorobenzene (HCB)	270	U	ug/kg dry	270	11/04/10	11/09/10	CLP SOM01.2 B
87-68-3	Hexachlorobutadiene	270	U	ug/kg dry	270	11/04/10	11/09/10	CLP SOM01.2 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	270	U	ug/kg dry	270	11/04/10	11/09/10	CLP SOM01.2 B
67-72-1	Hexachloroethane	270	U	ug/kg dry	270	11/04/10	11/09/10	CLP SOM01.2 B
193-39-5	Indeno (1,2,3-cd) pyrene	200		ug/kg dry	52	11/04/10	11/15/10	CLP SOM01.2 BS
78-59-1	Isophorone	270	U	ug/kg dry	270	11/04/10	11/09/10	CLP SOM01.2 B



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 Region 4 Science and Ecosystem Support Division
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0019
 Project: 11-0019, Tronox Inc - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 11-0019, Tronox Inc

Contract Lab Case: 40729

Sample ID: 13744ASF

Lab ID: C104601-26

MD No:

Station ID: 13744A

Matrix: Surface Soil

D No: 65B5 MITKEM

Date Collected: 10/25/10 15:50

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
91-20-3	Naphthalene	5.2	U	ug/kg dry	5.2	11/04/10	11/15/10	CLP SOM01.2 BS
98-95-3	Nitrobenzene	270	U	ug/kg dry	270	11/04/10	11/09/10	CLP SOM01.2 B
621-64-7	n-Nitroso di-n-Propylamine	270	U	ug/kg dry	270	11/04/10	11/09/10	CLP SOM01.2 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	270	U	ug/kg dry	270	11/04/10	11/09/10	CLP SOM01.2 B
87-86-5	Pentachlorophenol	44	J, CLP16	ug/kg dry	11	11/04/10	11/15/10	CLP SOM01.2 BS
85-01-8	Phenanthrene	39		ug/kg dry	5.2	11/04/10	11/15/10	CLP SOM01.2 BS
108-95-2	Phenol	270	U	ug/kg dry	270	11/04/10	11/09/10	CLP SOM01.2 B
129-00-0	Pyrene	210		ug/kg dry	52	11/04/10	11/15/10	CLP SOM01.2 BS
Tentatively Identified Compounds:								
57-10-3	n-Hexadecanoic acid	400	NJ, CLP15	ug/kg dry		11/04/10	11/09/10	CLP SOM01.2 B
57-11-4	Octadecanoic acid	400	NJ, CLP15	ug/kg dry		11/04/10	11/09/10	CLP SOM01.2 B
R4-6500	Petroleum Product:		N, CLP15			11/04/10	11/09/10	CLP SOM01.2 B
R4-6501	Unidentified Compound(s)	3000	J, CLP15	ug/kg dry		11/04/10	11/09/10	CLP SOM01.2 B



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D.A.R.T. Id: 11-0019

Project: 11-0019, Tronox Inc - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 11-0019, Tronox Inc

Contract Lab Case: 40729

Sample ID: 13744BSB12

Lab ID: C104601-27

MD No:

Station ID: 13744B

Matrix: Subsurface Soil

D No: 65Z9 MITKEM

Date Collected: 10/25/10 16:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	8.0		%		11/04/10	11/11/10	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	180	U	ug/kg dry	180	11/04/10	11/11/10	CLP SOM01.2 B
92-52-4	1,1-Biphenyl	180	U	ug/kg dry	180	11/04/10	11/11/10	CLP SOM01.2 B
95-94-3	1,2,4,5-Tetrachlorobenzene	180	U	ug/kg dry	180	11/04/10	11/11/10	CLP SOM01.2 B
58-90-2	2,3,4,6-Tetrachlorophenol	180	U	ug/kg dry	180	11/04/10	11/11/10	CLP SOM01.2 B
95-95-4	2,4,5-Trichlorophenol	180	U	ug/kg dry	180	11/04/10	11/11/10	CLP SOM01.2 B
88-06-2	2,4,6-Trichlorophenol	180	U	ug/kg dry	180	11/04/10	11/11/10	CLP SOM01.2 B
120-83-2	2,4-Dichlorophenol	180	U	ug/kg dry	180	11/04/10	11/11/10	CLP SOM01.2 B
105-67-9	2,4-Dimethylphenol	180	U	ug/kg dry	180	11/04/10	11/11/10	CLP SOM01.2 B
51-28-5	2,4-Dinitrophenol	360	U, J, CLP16	ug/kg dry	360	11/04/10	11/11/10	CLP SOM01.2 B
121-14-2	2,4-Dinitrotoluene	180	U	ug/kg dry	180	11/04/10	11/11/10	CLP SOM01.2 B
606-20-2	2,6-Dinitrotoluene	180	U	ug/kg dry	180	11/04/10	11/11/10	CLP SOM01.2 B
91-58-7	2-Chloronaphthalene	180	U	ug/kg dry	180	11/04/10	11/11/10	CLP SOM01.2 B
95-57-8	2-Chlorophenol	180	U	ug/kg dry	180	11/04/10	11/11/10	CLP SOM01.2 B
534-52-1	2-Methyl-4,6-dinitrophenol	360	U	ug/kg dry	360	11/04/10	11/11/10	CLP SOM01.2 B
91-57-6	2-Methylnaphthalene	3.6	U	ug/kg dry	3.6	11/04/10	11/15/10	CLP SOM01.2 BS
95-48-7	2-Methylphenol	180	U	ug/kg dry	180	11/04/10	11/11/10	CLP SOM01.2 B
88-74-4	2-Nitroaniline	360	U	ug/kg dry	360	11/04/10	11/11/10	CLP SOM01.2 B
88-75-5	2-Nitrophenol	180	U	ug/kg dry	180	11/04/10	11/11/10	CLP SOM01.2 B
91-94-1	3,3'-Dichlorobenzidine	180	U	ug/kg dry	180	11/04/10	11/11/10	CLP SOM01.2 B
99-09-2	3-Nitroaniline	360	U	ug/kg dry	360	11/04/10	11/11/10	CLP SOM01.2 B
101-55-3	4-Bromophenyl phenyl ether	180	U	ug/kg dry	180	11/04/10	11/11/10	CLP SOM01.2 B
59-50-7	4-Chloro-3-methylphenol	180	U	ug/kg dry	180	11/04/10	11/11/10	CLP SOM01.2 B
106-47-8	4-Chloroaniline	180	U	ug/kg dry	180	11/04/10	11/11/10	CLP SOM01.2 B
7005-72-3	4-Chlorophenyl phenyl ether	180	U	ug/kg dry	180	11/04/10	11/11/10	CLP SOM01.2 B
100-01-6	4-Nitroaniline	360	U	ug/kg dry	360	11/04/10	11/11/10	CLP SOM01.2 B
100-02-7	4-Nitrophenol	360	U	ug/kg dry	360	11/04/10	11/11/10	CLP SOM01.2 B
83-32-9	Acenaphthene	3.6	U	ug/kg dry	3.6	11/04/10	11/15/10	CLP SOM01.2 BS
208-96-8	Acenaphthylene	23		ug/kg dry	3.6	11/04/10	11/15/10	CLP SOM01.2 BS
98-86-2	Acetophenone	180	U	ug/kg dry	180	11/04/10	11/11/10	CLP SOM01.2 B



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Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0019

Project: 11-0019, Tronox Inc - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 11-0019, Tronox Inc

Contract Lab Case: 40729

Sample ID: 13744BSB12

Lab ID: C104601-27

MD No:

Station ID: 13744B

Matrix: Subsurface Soil

D No: 65Z9 MITKEM

Date Collected: 10/25/10 16:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
120-12-7	Anthracene	32		ug/kg dry	3.6	11/04/10	11/15/10	CLP SOM01.2 BS
1912-24-9	Atrazine	180	U, J, QC-1	ug/kg dry	180	11/04/10	11/11/10	CLP SOM01.2 B
100-52-7	Benzaldehyde	180	U	ug/kg dry	180	11/04/10	11/11/10	CLP SOM01.2 B
56-55-3	Benzo(a)anthracene	76		ug/kg dry	36	11/04/10	11/15/10	CLP SOM01.2 BS
50-32-8	Benzo(a)pyrene	130		ug/kg dry	36	11/04/10	11/15/10	CLP SOM01.2 BS
205-99-2	Benzo(b)fluoranthene	200		ug/kg dry	180	11/04/10	11/11/10	CLP SOM01.2 B
191-24-2	Benzo(g,h,i)perylene	110		ug/kg dry	36	11/04/10	11/15/10	CLP SOM01.2 BS
207-08-9	Benzo(k)fluoranthene	120		ug/kg dry	36	11/04/10	11/15/10	CLP SOM01.2 BS
85-68-7	Benzyl butyl phthalate	180	U	ug/kg dry	180	11/04/10	11/11/10	CLP SOM01.2 B
111-91-1	Bis(2-chloroethoxy)methane	180	U	ug/kg dry	180	11/04/10	11/11/10	CLP SOM01.2 B
111-44-4	bis(2-Chloroethyl) Ether	180	U	ug/kg dry	180	11/04/10	11/11/10	CLP SOM01.2 B
39638-32-9	Bis(2-chloroisopropyl) ether	180	U	ug/kg dry	180	11/04/10	11/11/10	CLP SOM01.2 B
117-81-7	Bis(2-ethylhexyl) phthalate	180	U	ug/kg dry	180	11/04/10	11/11/10	CLP SOM01.2 B
105-60-2	Caprolactam	180	U	ug/kg dry	180	11/04/10	11/11/10	CLP SOM01.2 B
86-74-8	Carbazole	180	U	ug/kg dry	180	11/04/10	11/11/10	CLP SOM01.2 B
218-01-9	Chrysene	94		ug/kg dry	36	11/04/10	11/15/10	CLP SOM01.2 BS
53-70-3	Dibenzo(a,h)anthracene	31		ug/kg dry	3.6	11/04/10	11/15/10	CLP SOM01.2 BS
132-64-9	Dibenzofuran	180	U	ug/kg dry	180	11/04/10	11/11/10	CLP SOM01.2 B
84-66-2	Diethyl phthalate	180	U	ug/kg dry	180	11/04/10	11/11/10	CLP SOM01.2 B
131-11-3	Dimethyl phthalate	180	U	ug/kg dry	180	11/04/10	11/11/10	CLP SOM01.2 B
84-74-2	Di-n-butylphthalate	180	U	ug/kg dry	180	11/04/10	11/11/10	CLP SOM01.2 B
117-84-0	Di-n-octylphthalate	180	U	ug/kg dry	180	11/04/10	11/11/10	CLP SOM01.2 B
206-44-0	Fluoranthene	98		ug/kg dry	36	11/04/10	11/15/10	CLP SOM01.2 BS
86-73-7	Fluorene	3.6	U	ug/kg dry	3.6	11/04/10	11/15/10	CLP SOM01.2 BS
118-74-1	Hexachlorobenzene (HCB)	180	U	ug/kg dry	180	11/04/10	11/11/10	CLP SOM01.2 B
87-68-3	Hexachlorobutadiene	180	U	ug/kg dry	180	11/04/10	11/11/10	CLP SOM01.2 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	180	U	ug/kg dry	180	11/04/10	11/11/10	CLP SOM01.2 B
67-72-1	Hexachloroethane	180	U	ug/kg dry	180	11/04/10	11/11/10	CLP SOM01.2 B
193-39-5	Indeno (1,2,3-cd) pyrene	100		ug/kg dry	36	11/04/10	11/15/10	CLP SOM01.2 BS
78-59-1	Isophorone	180	U	ug/kg dry	180	11/04/10	11/11/10	CLP SOM01.2 B
91-20-3	Naphthalene	3.6	U	ug/kg dry	3.6	11/04/10	11/15/10	CLP SOM01.2 BS



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0019

Project: 11-0019, Tronox Inc - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 11-0019, Tronox Inc

Contract Lab Case: 40729

Sample ID: 13744BSB12

Lab ID: C104601-27

MD No:

Station ID: 13744B

Matrix: Subsurface Soil

D No: 65Z9 MITKEM

Date Collected: 10/25/10 16:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
98-95-3	Nitrobenzene	180	U	ug/kg dry	180	11/04/10	11/11/10	CLP SOM01.2 B
621-64-7	n-Nitroso di-n-Propylamine	180	U	ug/kg dry	180	11/04/10	11/11/10	CLP SOM01.2 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	180	U	ug/kg dry	180	11/04/10	11/11/10	CLP SOM01.2 B
87-86-5	Pentachlorophenol	17	J, CLP16	ug/kg dry	7.2	11/04/10	11/15/10	CLP SOM01.2 BS
85-01-8	Phenanthrene	34		ug/kg dry	3.6	11/04/10	11/15/10	CLP SOM01.2 BS
108-95-2	Phenol	180	U	ug/kg dry	180	11/04/10	11/11/10	CLP SOM01.2 B
129-00-0	Pyrene	110		ug/kg dry	36	11/04/10	11/15/10	CLP SOM01.2 BS
Tentatively Identified Compounds:								
2091-29-4	9-Hexadecenoic acid	300	NJ, CLP15	ug/kg dry		11/04/10	11/11/10	CLP SOM01.2 B
1002-84-2	Pentadecanoic acid	400	NJ, CLP15	ug/kg dry		11/04/10	11/11/10	CLP SOM01.2 B
R4-6501	Unidentified Compound(s)	2000	J, CLP15	ug/kg dry		11/04/10	11/11/10	CLP SOM01.2 B



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D.A.R.T. Id: 11-0019

Project: 11-0019, Tronox Inc - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 11-0019, Tronox Inc

Contract Lab Case: 40729

Sample ID: 13744BSF

Lab ID: C104601-28

MD No:

Station ID: 13744B

Matrix: Surface Soil

D No: 65Z8 MITKEM

Date Collected: 10/25/10 16:10

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	3.0		%		11/04/10	11/09/10	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	170	U	ug/kg dry	170	11/04/10	11/09/10	CLP SOM01.2 B
92-52-4	1,1-Biphenyl	170	U	ug/kg dry	170	11/04/10	11/09/10	CLP SOM01.2 B
95-94-3	1,2,4,5-Tetrachlorobenzene	170	U	ug/kg dry	170	11/04/10	11/09/10	CLP SOM01.2 B
58-90-2	2,3,4,6-Tetrachlorophenol	170	U	ug/kg dry	170	11/04/10	11/09/10	CLP SOM01.2 B
95-95-4	2,4,5-Trichlorophenol	170	U	ug/kg dry	170	11/04/10	11/09/10	CLP SOM01.2 B
88-06-2	2,4,6-Trichlorophenol	170	U	ug/kg dry	170	11/04/10	11/09/10	CLP SOM01.2 B
120-83-2	2,4-Dichlorophenol	170	U	ug/kg dry	170	11/04/10	11/09/10	CLP SOM01.2 B
105-67-9	2,4-Dimethylphenol	170	U, J, QC-1	ug/kg dry	170	11/04/10	11/09/10	CLP SOM01.2 B
51-28-5	2,4-Dinitrophenol	330	U, J, CLP16, QC-1	ug/kg dry	330	11/04/10	11/09/10	CLP SOM01.2 B
121-14-2	2,4-Dinitrotoluene	170	U	ug/kg dry	170	11/04/10	11/09/10	CLP SOM01.2 B
606-20-2	2,6-Dinitrotoluene	170	U	ug/kg dry	170	11/04/10	11/09/10	CLP SOM01.2 B
91-58-7	2-Chloronaphthalene	170	U	ug/kg dry	170	11/04/10	11/09/10	CLP SOM01.2 B
95-57-8	2-Chlorophenol	170	U	ug/kg dry	170	11/04/10	11/09/10	CLP SOM01.2 B
534-52-1	2-Methyl-4,6-dinitrophenol	330	U, J, QC-1	ug/kg dry	330	11/04/10	11/09/10	CLP SOM01.2 B
91-57-6	2-Methylnaphthalene	4.1		ug/kg dry	3.3	11/04/10	11/15/10	CLP SOM01.2 BS
95-48-7	2-Methylphenol	170	U	ug/kg dry	170	11/04/10	11/09/10	CLP SOM01.2 B
88-74-4	2-Nitroaniline	330	U	ug/kg dry	330	11/04/10	11/09/10	CLP SOM01.2 B
88-75-5	2-Nitrophenol	170	U	ug/kg dry	170	11/04/10	11/09/10	CLP SOM01.2 B
91-94-1	3,3'-Dichlorobenzidine	170	U	ug/kg dry	170	11/04/10	11/09/10	CLP SOM01.2 B
99-09-2	3-Nitroaniline	330	U	ug/kg dry	330	11/04/10	11/09/10	CLP SOM01.2 B
101-55-3	4-Bromophenyl phenyl ether	170	U	ug/kg dry	170	11/04/10	11/09/10	CLP SOM01.2 B
59-50-7	4-Chloro-3-methylphenol	170	U	ug/kg dry	170	11/04/10	11/09/10	CLP SOM01.2 B
106-47-8	4-Chloroaniline	170	U	ug/kg dry	170	11/04/10	11/09/10	CLP SOM01.2 B
7005-72-3	4-Chlorophenyl phenyl ether	170	U	ug/kg dry	170	11/04/10	11/09/10	CLP SOM01.2 B
100-01-6	4-Nitroaniline	330	U	ug/kg dry	330	11/04/10	11/09/10	CLP SOM01.2 B
100-02-7	4-Nitrophenol	330	U	ug/kg dry	330	11/04/10	11/09/10	CLP SOM01.2 B
83-32-9	Acenaphthene	3.3	U	ug/kg dry	3.3	11/04/10	11/15/10	CLP SOM01.2 BS
208-96-8	Acenaphthylene	110		ug/kg dry	33	11/04/10	11/15/10	CLP SOM01.2 BS



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D.A.R.T. Id: 11-0019

Project: 11-0019, Tronox Inc - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 11-0019, Tronox Inc

Contract Lab Case: 40729

Sample ID: 13744BSF

Lab ID: C104601-28

MD No:

Station ID: 13744B

Matrix: Surface Soil

D No: 65Z8 MITKEM

Date Collected: 10/25/10 16:10

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
98-86-2	Acetophenone	170	U	ug/kg dry	170	11/04/10	11/09/10	CLP SOM01.2 B
120-12-7	Anthracene	83		ug/kg dry	33	11/04/10	11/15/10	CLP SOM01.2 BS
1912-24-9	Atrazine	170	U	ug/kg dry	170	11/04/10	11/09/10	CLP SOM01.2 B
100-52-7	Benzaldehyde	170	U	ug/kg dry	170	11/04/10	11/09/10	CLP SOM01.2 B
56-55-3	Benzo(a)anthracene	200		ug/kg dry	170	11/04/10	11/09/10	CLP SOM01.2 B
50-32-8	Benzo(a)pyrene	250		ug/kg dry	170	11/04/10	11/09/10	CLP SOM01.2 B
205-99-2	Benzo(b)fluoranthene	580		ug/kg dry	170	11/04/10	11/09/10	CLP SOM01.2 B
191-24-2	Benzo(g,h,i)perylene	180		ug/kg dry	170	11/04/10	11/09/10	CLP SOM01.2 B
207-08-9	Benzo(k)fluoranthene	260	J, QC-2	ug/kg dry	170	11/04/10	11/09/10	CLP SOM01.2 B
85-68-7	Benzyl butyl phthalate	170	U	ug/kg dry	170	11/04/10	11/09/10	CLP SOM01.2 B
111-91-1	Bis(2-chloroethoxy)methane	170	U	ug/kg dry	170	11/04/10	11/09/10	CLP SOM01.2 B
111-44-4	bis(2-Chloroethyl) Ether	170	U	ug/kg dry	170	11/04/10	11/09/10	CLP SOM01.2 B
39638-32-9	Bis(2-chloroisopropyl) ether	170	U	ug/kg dry	170	11/04/10	11/09/10	CLP SOM01.2 B
117-81-7	Bis(2-ethylhexyl) phthalate	170	U	ug/kg dry	170	11/04/10	11/09/10	CLP SOM01.2 B
105-60-2	Caprolactam	170	U	ug/kg dry	170	11/04/10	11/09/10	CLP SOM01.2 B
86-74-8	Carbazole	170	U	ug/kg dry	170	11/04/10	11/09/10	CLP SOM01.2 B
218-01-9	Chrysene	260		ug/kg dry	170	11/04/10	11/09/10	CLP SOM01.2 B
53-70-3	Dibenzo(a,h)anthracene	92		ug/kg dry	33	11/04/10	11/15/10	CLP SOM01.2 BS
132-64-9	Dibenzofuran	170	U	ug/kg dry	170	11/04/10	11/09/10	CLP SOM01.2 B
84-66-2	Diethyl phthalate	170	U	ug/kg dry	170	11/04/10	11/09/10	CLP SOM01.2 B
131-11-3	Dimethyl phthalate	170	U	ug/kg dry	170	11/04/10	11/09/10	CLP SOM01.2 B
84-74-2	Di-n-butylphthalate	170	U	ug/kg dry	170	11/04/10	11/09/10	CLP SOM01.2 B
117-84-0	Di-n-octylphthalate	170	U	ug/kg dry	170	11/04/10	11/09/10	CLP SOM01.2 B
206-44-0	Fluoranthene	210		ug/kg dry	33	11/04/10	11/15/10	CLP SOM01.2 BS
86-73-7	Fluorene	3.3	U	ug/kg dry	3.3	11/04/10	11/15/10	CLP SOM01.2 BS
118-74-1	Hexachlorobenzene (HCB)	170	U	ug/kg dry	170	11/04/10	11/09/10	CLP SOM01.2 B
87-68-3	Hexachlorobutadiene	170	U	ug/kg dry	170	11/04/10	11/09/10	CLP SOM01.2 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	170	U	ug/kg dry	170	11/04/10	11/09/10	CLP SOM01.2 B
67-72-1	Hexachloroethane	170	U	ug/kg dry	170	11/04/10	11/09/10	CLP SOM01.2 B
193-39-5	Indeno (1,2,3-cd) pyrene	180		ug/kg dry	170	11/04/10	11/09/10	CLP SOM01.2 B
78-59-1	Isophorone	170	U	ug/kg dry	170	11/04/10	11/09/10	CLP SOM01.2 B



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 Region 4 Science and Ecosystem Support Division
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0019
 Project: 11-0019, Tronox Inc - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 11-0019, Tronox Inc

Contract Lab Case: 40729

Sample ID: 13744BSF

Lab ID: C104601-28

MD No:

Station ID: 13744B

Matrix: Surface Soil

D No: 65Z8 MITKEM

Date Collected: 10/25/10 16:10

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
91-20-3	Naphthalene	4.5		ug/kg dry	3.3	11/04/10	11/15/10	CLP SOM01.2 BS
98-95-3	Nitrobenzene	170	U	ug/kg dry	170	11/04/10	11/09/10	CLP SOM01.2 B
621-64-7	n-Nitroso di-n-Propylamine	170	U	ug/kg dry	170	11/04/10	11/09/10	CLP SOM01.2 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	170	U	ug/kg dry	170	11/04/10	11/09/10	CLP SOM01.2 B
87-86-5	Pentachlorophenol	56	J, CLP02, CLP16	ug/kg dry	6.8	11/04/10	11/15/10	CLP SOM01.2 BS
85-01-8	Phenanthrene	31		ug/kg dry	3.3	11/04/10	11/15/10	CLP SOM01.2 BS
108-95-2	Phenol	170	U	ug/kg dry	170	11/04/10	11/09/10	CLP SOM01.2 B
129-00-0	Pyrene	290		ug/kg dry	170	11/04/10	11/09/10	CLP SOM01.2 B
Tentatively Identified Compounds:								
57-10-3	n-Hexadecanoic acid	200	NJ, CLP15	ug/kg dry		11/04/10	11/09/10	CLP SOM01.2 B
R4-6501	Unidentified Compound(s)	3000	J, CLP15	ug/kg dry		11/04/10	11/09/10	CLP SOM01.2 B



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D.A.R.T. Id: 11-0019
Project: 11-0019, Tronox Inc - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 11-0019, Tronox Inc

Contract Lab Case: 40729

Sample ID: 13746ASF

Lab ID: C104601-29

MD No:

Station ID: 13746

Matrix: Surface Soil

D No: 65A1 MITKEM

Date Collected: 10/26/10 9:20

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	20		%		11/04/10	11/09/10	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	210	U	ug/kg dry	210	11/04/10	11/09/10	CLP SOM01.2 B
92-52-4	1,1-Biphenyl	210	U	ug/kg dry	210	11/04/10	11/09/10	CLP SOM01.2 B
95-94-3	1,2,4,5-Tetrachlorobenzene	210	U	ug/kg dry	210	11/04/10	11/09/10	CLP SOM01.2 B
58-90-2	2,3,4,6-Tetrachlorophenol	210	U	ug/kg dry	210	11/04/10	11/09/10	CLP SOM01.2 B
95-95-4	2,4,5-Trichlorophenol	210	U	ug/kg dry	210	11/04/10	11/09/10	CLP SOM01.2 B
88-06-2	2,4,6-Trichlorophenol	210	U	ug/kg dry	210	11/04/10	11/09/10	CLP SOM01.2 B
120-83-2	2,4-Dichlorophenol	210	U	ug/kg dry	210	11/04/10	11/09/10	CLP SOM01.2 B
105-67-9	2,4-Dimethylphenol	210	U, J, QC-1	ug/kg dry	210	11/04/10	11/09/10	CLP SOM01.2 B
51-28-5	2,4-Dinitrophenol	410	U, J, QC-1, CLP16	ug/kg dry	410	11/04/10	11/09/10	CLP SOM01.2 B
121-14-2	2,4-Dinitrotoluene	210	U	ug/kg dry	210	11/04/10	11/09/10	CLP SOM01.2 B
606-20-2	2,6-Dinitrotoluene	210	U	ug/kg dry	210	11/04/10	11/09/10	CLP SOM01.2 B
91-58-7	2-Chloronaphthalene	210	U	ug/kg dry	210	11/04/10	11/09/10	CLP SOM01.2 B
95-57-8	2-Chlorophenol	210	U	ug/kg dry	210	11/04/10	11/09/10	CLP SOM01.2 B
534-52-1	2-Methyl-4,6-dinitrophenol	410	U, J, QC-1	ug/kg dry	410	11/04/10	11/09/10	CLP SOM01.2 B
91-57-6	2-Methylnaphthalene	4.1	U	ug/kg dry	4.1	11/04/10	11/15/10	CLP SOM01.2 BS
95-48-7	2-Methylphenol	210	U	ug/kg dry	210	11/04/10	11/09/10	CLP SOM01.2 B
88-74-4	2-Nitroaniline	410	U	ug/kg dry	410	11/04/10	11/09/10	CLP SOM01.2 B
88-75-5	2-Nitrophenol	210	U	ug/kg dry	210	11/04/10	11/09/10	CLP SOM01.2 B
91-94-1	3,3'-Dichlorobenzidine	210	U	ug/kg dry	210	11/04/10	11/09/10	CLP SOM01.2 B
99-09-2	3-Nitroaniline	410	U	ug/kg dry	410	11/04/10	11/09/10	CLP SOM01.2 B
101-55-3	4-Bromophenyl phenyl ether	210	U	ug/kg dry	210	11/04/10	11/09/10	CLP SOM01.2 B
59-50-7	4-Chloro-3-methylphenol	210	U	ug/kg dry	210	11/04/10	11/09/10	CLP SOM01.2 B
106-47-8	4-Chloroaniline	210	U	ug/kg dry	210	11/04/10	11/09/10	CLP SOM01.2 B
7005-72-3	4-Chlorophenyl phenyl ether	210	U	ug/kg dry	210	11/04/10	11/09/10	CLP SOM01.2 B
100-01-6	4-Nitroaniline	410	U	ug/kg dry	410	11/04/10	11/09/10	CLP SOM01.2 B
100-02-7	4-Nitrophenol	410	U	ug/kg dry	410	11/04/10	11/09/10	CLP SOM01.2 B
83-32-9	Acenaphthene	4.1	U	ug/kg dry	4.1	11/04/10	11/15/10	CLP SOM01.2 BS
208-96-8	Acenaphthylene	13		ug/kg dry	4.1	11/04/10	11/15/10	CLP SOM01.2 BS



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D.A.R.T. Id: 11-0019
Project: 11-0019, Tronox Inc - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 11-0019, Tronox Inc

Contract Lab Case: 40729

Sample ID: 13746ASF

Lab ID: C104601-29

MD No:

Station ID: 13746

Matrix: Surface Soil

D No: 65A1 MITKEM

Date Collected: 10/26/10 9:20

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
98-86-2	Acetophenone	210	U	ug/kg dry	210	11/04/10	11/09/10	CLP SOM01.2 B
120-12-7	Anthracene	16		ug/kg dry	4.1	11/04/10	11/15/10	CLP SOM01.2 BS
1912-24-9	Atrazine	210	U	ug/kg dry	210	11/04/10	11/09/10	CLP SOM01.2 B
100-52-7	Benzaldehyde	210	U	ug/kg dry	210	11/04/10	11/09/10	CLP SOM01.2 B
56-55-3	Benzo(a)anthracene	57		ug/kg dry	41	11/04/10	11/15/10	CLP SOM01.2 BS
50-32-8	Benzo(a)pyrene	110		ug/kg dry	41	11/04/10	11/15/10	CLP SOM01.2 BS
205-99-2	Benzo(b)fluoranthene	170		ug/kg dry	41	11/04/10	11/15/10	CLP SOM01.2 BS
191-24-2	Benzo(g,h,i)perylene	100		ug/kg dry	41	11/04/10	11/15/10	CLP SOM01.2 BS
207-08-9	Benzo(k)fluoranthene	86		ug/kg dry	41	11/04/10	11/15/10	CLP SOM01.2 BS
85-68-7	Benzyl butyl phthalate	210	U	ug/kg dry	210	11/04/10	11/09/10	CLP SOM01.2 B
111-91-1	Bis(2-chloroethoxy)methane	210	U	ug/kg dry	210	11/04/10	11/09/10	CLP SOM01.2 B
111-44-4	bis(2-Chloroethyl) Ether	210	U	ug/kg dry	210	11/04/10	11/09/10	CLP SOM01.2 B
39638-32-9	Bis(2-chloroisopropyl) ether	210	U	ug/kg dry	210	11/04/10	11/09/10	CLP SOM01.2 B
117-81-7	Bis(2-ethylhexyl) phthalate	250		ug/kg dry	210	11/04/10	11/09/10	CLP SOM01.2 B
105-60-2	Caprolactam	210	U	ug/kg dry	210	11/04/10	11/09/10	CLP SOM01.2 B
86-74-8	Carbazole	210	U	ug/kg dry	210	11/04/10	11/09/10	CLP SOM01.2 B
218-01-9	Chrysene	82		ug/kg dry	41	11/04/10	11/15/10	CLP SOM01.2 BS
53-70-3	Dibenzo(a,h)anthracene	18		ug/kg dry	4.1	11/04/10	11/15/10	CLP SOM01.2 BS
132-64-9	Dibenzofuran	210	U	ug/kg dry	210	11/04/10	11/09/10	CLP SOM01.2 B
84-66-2	Diethyl phthalate	210	U	ug/kg dry	210	11/04/10	11/09/10	CLP SOM01.2 B
131-11-3	Dimethyl phthalate	210	U	ug/kg dry	210	11/04/10	11/09/10	CLP SOM01.2 B
84-74-2	Di-n-butylphthalate	210	U	ug/kg dry	210	11/04/10	11/09/10	CLP SOM01.2 B
117-84-0	Di-n-octylphthalate	210	U	ug/kg dry	210	11/04/10	11/09/10	CLP SOM01.2 B
206-44-0	Fluoranthene	95		ug/kg dry	41	11/04/10	11/15/10	CLP SOM01.2 BS
86-73-7	Fluorene	4.1	U	ug/kg dry	4.1	11/04/10	11/15/10	CLP SOM01.2 BS
118-74-1	Hexachlorobenzene (HCB)	210	U	ug/kg dry	210	11/04/10	11/09/10	CLP SOM01.2 B
87-68-3	Hexachlorobutadiene	210	U	ug/kg dry	210	11/04/10	11/09/10	CLP SOM01.2 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	210	U	ug/kg dry	210	11/04/10	11/09/10	CLP SOM01.2 B
67-72-1	Hexachloroethane	210	U	ug/kg dry	210	11/04/10	11/09/10	CLP SOM01.2 B
193-39-5	Indeno (1,2,3-cd) pyrene	78		ug/kg dry	41	11/04/10	11/15/10	CLP SOM01.2 BS
78-59-1	Isophorone	210	U	ug/kg dry	210	11/04/10	11/09/10	CLP SOM01.2 B



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0019

Project: 11-0019, Tronox Inc - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 11-0019, Tronox Inc

Contract Lab Case: 40729

Sample ID: 13746ASF

Lab ID: C104601-29

MD No:

Station ID: 13746

Matrix: Surface Soil

D No: 65A1 MITKEM

Date Collected: 10/26/10 9:20

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
91-20-3	Naphthalene	4.1	U	ug/kg dry	4.1	11/04/10	11/15/10	CLP SOM01.2 BS
98-95-3	Nitrobenzene	210	U	ug/kg dry	210	11/04/10	11/09/10	CLP SOM01.2 B
621-64-7	n-Nitroso di-n-Propylamine	210	U, J, QM-1	ug/kg dry	210	11/04/10	11/09/10	CLP SOM01.2 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	210	U	ug/kg dry	210	11/04/10	11/09/10	CLP SOM01.2 B
87-86-5	Pentachlorophenol	11	J, CLP16	ug/kg dry	8.3	11/04/10	11/15/10	CLP SOM01.2 BS
85-01-8	Phenanthrene	24		ug/kg dry	4.1	11/04/10	11/15/10	CLP SOM01.2 BS
108-95-2	Phenol	210	U	ug/kg dry	210	11/04/10	11/09/10	CLP SOM01.2 B
129-00-0	Pyrene	88		ug/kg dry	41	11/04/10	11/15/10	CLP SOM01.2 BS
Tentatively Identified Compounds:								
R4-6500	Petroleum Product:		N, CLP15			11/04/10	11/09/10	CLP SOM01.2 B
58-22-0	Testosterone	300	NJ, CLP15	ug/kg dry		11/04/10	11/09/10	CLP SOM01.2 B
544-63-8	Tetradecanoic Acid	300	NJ, CLP15	ug/kg dry		11/04/10	11/09/10	CLP SOM01.2 B
R4-6501	Unidentified Compound(s)	1000	J, CLP15	ug/kg dry		11/04/10	11/09/10	CLP SOM01.2 B



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D.A.R.T. Id: 11-0019

Project: 11-0019, Tronox Inc - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 11-0019, Tronox Inc

Contract Lab Case: 40729

Sample ID: 13750ASF

Lab ID: C104601-30

MD No:

Station ID: 13750

Matrix: Surface Soil

D No: 65A2 MITKEM

Date Collected: 10/26/10 9:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	18		%		11/03/10	11/11/10	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	210	U	ug/kg dry	210	11/03/10	11/11/10	CLP SOM01.2 B
92-52-4	1,1-Biphenyl	210	U	ug/kg dry	210	11/03/10	11/11/10	CLP SOM01.2 B
95-94-3	1,2,4,5-Tetrachlorobenzene	210	U	ug/kg dry	210	11/03/10	11/11/10	CLP SOM01.2 B
58-90-2	2,3,4,6-Tetrachlorophenol	210	U	ug/kg dry	210	11/03/10	11/11/10	CLP SOM01.2 B
95-95-4	2,4,5-Trichlorophenol	210	U	ug/kg dry	210	11/03/10	11/11/10	CLP SOM01.2 B
88-06-2	2,4,6-Trichlorophenol	210	U	ug/kg dry	210	11/03/10	11/11/10	CLP SOM01.2 B
120-83-2	2,4-Dichlorophenol	210	U	ug/kg dry	210	11/03/10	11/11/10	CLP SOM01.2 B
105-67-9	2,4-Dimethylphenol	210	U, J, QC-1	ug/kg dry	210	11/03/10	11/11/10	CLP SOM01.2 B
51-28-5	2,4-Dinitrophenol	400	U, J, CLP16, QC-1	ug/kg dry	400	11/03/10	11/11/10	CLP SOM01.2 B
121-14-2	2,4-Dinitrotoluene	210	U	ug/kg dry	210	11/03/10	11/11/10	CLP SOM01.2 B
606-20-2	2,6-Dinitrotoluene	210	U	ug/kg dry	210	11/03/10	11/11/10	CLP SOM01.2 B
91-58-7	2-Chloronaphthalene	210	U	ug/kg dry	210	11/03/10	11/11/10	CLP SOM01.2 B
95-57-8	2-Chlorophenol	210	U	ug/kg dry	210	11/03/10	11/11/10	CLP SOM01.2 B
534-52-1	2-Methyl-4,6-dinitrophenol	400	U	ug/kg dry	400	11/03/10	11/11/10	CLP SOM01.2 B
91-57-6	2-Methylnaphthalene	4.0	U	ug/kg dry	4.0	11/03/10	11/16/10	CLP SOM01.2 BS
95-48-7	2-Methylphenol	210	U	ug/kg dry	210	11/03/10	11/11/10	CLP SOM01.2 B
88-74-4	2-Nitroaniline	400	U	ug/kg dry	400	11/03/10	11/11/10	CLP SOM01.2 B
88-75-5	2-Nitrophenol	210	U	ug/kg dry	210	11/03/10	11/11/10	CLP SOM01.2 B
91-94-1	3,3'-Dichlorobenzidine	210	U, J, QS-4	ug/kg dry	210	11/03/10	11/11/10	CLP SOM01.2 B
99-09-2	3-Nitroaniline	400	U	ug/kg dry	400	11/03/10	11/11/10	CLP SOM01.2 B
101-55-3	4-Bromophenyl phenyl ether	210	U	ug/kg dry	210	11/03/10	11/11/10	CLP SOM01.2 B
59-50-7	4-Chloro-3-methylphenol	210	U	ug/kg dry	210	11/03/10	11/11/10	CLP SOM01.2 B
106-47-8	4-Chloroaniline	210	U, J, QS-4	ug/kg dry	210	11/03/10	11/11/10	CLP SOM01.2 B
7005-72-3	4-Chlorophenyl phenyl ether	210	U	ug/kg dry	210	11/03/10	11/11/10	CLP SOM01.2 B
100-01-6	4-Nitroaniline	400	U, J, QC-1	ug/kg dry	400	11/03/10	11/11/10	CLP SOM01.2 B
100-02-7	4-Nitrophenol	400	U	ug/kg dry	400	11/03/10	11/11/10	CLP SOM01.2 B
83-32-9	Acenaphthene	4.0	U	ug/kg dry	4.0	11/03/10	11/16/10	CLP SOM01.2 BS
208-96-8	Acenaphthylene	11		ug/kg dry	4.0	11/03/10	11/16/10	CLP SOM01.2 BS



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D.A.R.T. Id: 11-0019
Project: 11-0019, Tronox Inc - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 11-0019, Tronox Inc

Contract Lab Case: 40729

Sample ID: 13750ASF

Lab ID: C104601-30

MD No:

Station ID: 13750

Matrix: Surface Soil

D No: 65A2 MITKEM

Date Collected: 10/26/10 9:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
98-86-2	Acetophenone	210	U	ug/kg dry	210	11/03/10	11/11/10	CLP SOM01.2 B
120-12-7	Anthracene	14		ug/kg dry	4.0	11/03/10	11/16/10	CLP SOM01.2 BS
1912-24-9	Atrazine	210	U	ug/kg dry	210	11/03/10	11/11/10	CLP SOM01.2 B
100-52-7	Benzaldehyde	210	U	ug/kg dry	210	11/03/10	11/11/10	CLP SOM01.2 B
56-55-3	Benzo(a)anthracene	66		ug/kg dry	40	11/03/10	11/16/10	CLP SOM01.2 BS
50-32-8	Benzo(a)pyrene	91		ug/kg dry	40	11/03/10	11/16/10	CLP SOM01.2 BS
205-99-2	Benzo(b)fluoranthene	130		ug/kg dry	40	11/03/10	11/16/10	CLP SOM01.2 BS
191-24-2	Benzo(g,h,i)perylene	73		ug/kg dry	40	11/03/10	11/16/10	CLP SOM01.2 BS
207-08-9	Benzo(k)fluoranthene	91	J, QC-2	ug/kg dry	40	11/03/10	11/16/10	CLP SOM01.2 BS
85-68-7	Benzyl butyl phthalate	210	U	ug/kg dry	210	11/03/10	11/11/10	CLP SOM01.2 B
111-91-1	Bis(2-chloroethoxy)methane	210	U	ug/kg dry	210	11/03/10	11/11/10	CLP SOM01.2 B
111-44-4	bis(2-Chloroethyl) Ether	210	U	ug/kg dry	210	11/03/10	11/11/10	CLP SOM01.2 B
39638-32-9	Bis(2-chloroisopropyl) ether	210	U	ug/kg dry	210	11/03/10	11/11/10	CLP SOM01.2 B
117-81-7	Bis(2-ethylhexyl) phthalate	590	J, QC-2	ug/kg dry	210	11/03/10	11/11/10	CLP SOM01.2 B
105-60-2	Caprolactam	210	U	ug/kg dry	210	11/03/10	11/11/10	CLP SOM01.2 B
86-74-8	Carbazole	210	U	ug/kg dry	210	11/03/10	11/11/10	CLP SOM01.2 B
218-01-9	Chrysene	81		ug/kg dry	40	11/03/10	11/16/10	CLP SOM01.2 BS
53-70-3	Dibenzo(a,h)anthracene	19		ug/kg dry	4.0	11/03/10	11/16/10	CLP SOM01.2 BS
132-64-9	Dibenzofuran	210	U	ug/kg dry	210	11/03/10	11/11/10	CLP SOM01.2 B
84-66-2	Diethyl phthalate	210	U	ug/kg dry	210	11/03/10	11/11/10	CLP SOM01.2 B
131-11-3	Dimethyl phthalate	210	U	ug/kg dry	210	11/03/10	11/11/10	CLP SOM01.2 B
84-74-2	Di-n-butylphthalate	210	U	ug/kg dry	210	11/03/10	11/11/10	CLP SOM01.2 B
117-84-0	Di-n-octylphthalate	240		ug/kg dry	210	11/03/10	11/11/10	CLP SOM01.2 B
206-44-0	Fluoranthene	110		ug/kg dry	40	11/03/10	11/16/10	CLP SOM01.2 BS
86-73-7	Fluorene	4.0	U	ug/kg dry	4.0	11/03/10	11/16/10	CLP SOM01.2 BS
118-74-1	Hexachlorobenzene (HCB)	210	U	ug/kg dry	210	11/03/10	11/11/10	CLP SOM01.2 B
87-68-3	Hexachlorobutadiene	210	U	ug/kg dry	210	11/03/10	11/11/10	CLP SOM01.2 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	210	U, J, QS-4	ug/kg dry	210	11/03/10	11/11/10	CLP SOM01.2 B
67-72-1	Hexachloroethane	210	U	ug/kg dry	210	11/03/10	11/11/10	CLP SOM01.2 B
193-39-5	Indeno (1,2,3-cd) pyrene	67		ug/kg dry	40	11/03/10	11/16/10	CLP SOM01.2 BS
78-59-1	Isophorone	210	U	ug/kg dry	210	11/03/10	11/11/10	CLP SOM01.2 B



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D.A.R.T. Id: 11-0019
 Project: 11-0019, Tronox Inc - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 11-0019, Tronox Inc

Contract Lab Case: 40729

Sample ID: 13750ASF

Lab ID: C104601-30

MD No:

Station ID: 13750

Matrix: Surface Soil

D No: 65A2 MITKEM

Date Collected: 10/26/10 9:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
91-20-3	Naphthalene	4.0	U	ug/kg dry	4.0	11/03/10	11/16/10	CLP SOM01.2 BS
98-95-3	Nitrobenzene	210	U	ug/kg dry	210	11/03/10	11/11/10	CLP SOM01.2 B
621-64-7	n-Nitroso di-n-Propylamine	210	U	ug/kg dry	210	11/03/10	11/11/10	CLP SOM01.2 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	210	U	ug/kg dry	210	11/03/10	11/11/10	CLP SOM01.2 B
87-86-5	Pentachlorophenol	4.7	J, CLP01, CLP16, QC-1	ug/kg dry	8.1	11/03/10	11/16/10	CLP SOM01.2 BS
85-01-8	Phenanthrene	30		ug/kg dry	4.0	11/03/10	11/16/10	CLP SOM01.2 BS
108-95-2	Phenol	210	U	ug/kg dry	210	11/03/10	11/11/10	CLP SOM01.2 B
129-00-0	Pyrene	72	J, CLP01	ug/kg dry	210	11/03/10	11/11/10	CLP SOM01.2 B
Tentatively Identified Compounds:								
4329-12-8	m,p'-DDD	200	NJ, CLP15	ug/kg dry		11/03/10	11/11/10	CLP SOM01.2 B
1002-84-2	Pentadecanoic acid	300	NJ, CLP15	ug/kg dry		11/03/10	11/11/10	CLP SOM01.2 B
1058-61-3	Stigmast-4-en-3-one	200	NJ, CLP15	ug/kg dry		11/03/10	11/11/10	CLP SOM01.2 B
544-63-8	Tetradecanoic Acid	300	NJ, CLP15	ug/kg dry		11/03/10	11/11/10	CLP SOM01.2 B
R4-6501	Unidentified Compound(s)	4000	J, CLP15	ug/kg dry		11/03/10	11/11/10	CLP SOM01.2 B



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Semi Volatile Organics

Project: 11-0019, Tronox Inc

Contract Lab Case: 40729

Sample ID: 13753ASF

Lab ID: C104601-31

MD No:

Station ID: 13753

Matrix: Surface Soil

D No: 65A3 MITKEM

Date Collected: 10/26/10 8:40

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	17		%		11/03/10	11/11/10	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	200	U	ug/kg dry	200	11/03/10	11/11/10	CLP SOM01.2 B
92-52-4	1,1-Biphenyl	200	U	ug/kg dry	200	11/03/10	11/11/10	CLP SOM01.2 B
95-94-3	1,2,4,5-Tetrachlorobenzene	200	U	ug/kg dry	200	11/03/10	11/11/10	CLP SOM01.2 B
58-90-2	2,3,4,6-Tetrachlorophenol	200	U	ug/kg dry	200	11/03/10	11/11/10	CLP SOM01.2 B
95-95-4	2,4,5-Trichlorophenol	200	U	ug/kg dry	200	11/03/10	11/11/10	CLP SOM01.2 B
88-06-2	2,4,6-Trichlorophenol	200	U	ug/kg dry	200	11/03/10	11/11/10	CLP SOM01.2 B
120-83-2	2,4-Dichlorophenol	200	U	ug/kg dry	200	11/03/10	11/11/10	CLP SOM01.2 B
105-67-9	2,4-Dimethylphenol	200	U, J, QC-1	ug/kg dry	200	11/03/10	11/11/10	CLP SOM01.2 B
51-28-5	2,4-Dinitrophenol	390	U, J, QC-1, CLP16	ug/kg dry	390	11/03/10	11/11/10	CLP SOM01.2 B
121-14-2	2,4-Dinitrotoluene	200	U	ug/kg dry	200	11/03/10	11/11/10	CLP SOM01.2 B
606-20-2	2,6-Dinitrotoluene	200	U	ug/kg dry	200	11/03/10	11/11/10	CLP SOM01.2 B
91-58-7	2-Chloronaphthalene	200	U	ug/kg dry	200	11/03/10	11/11/10	CLP SOM01.2 B
95-57-8	2-Chlorophenol	200	U	ug/kg dry	200	11/03/10	11/11/10	CLP SOM01.2 B
534-52-1	2-Methyl-4,6-dinitrophenol	390	U	ug/kg dry	390	11/03/10	11/11/10	CLP SOM01.2 B
91-57-6	2-Methylnaphthalene	3.9	U	ug/kg dry	3.9	11/03/10	11/16/10	CLP SOM01.2 BS
95-48-7	2-Methylphenol	200	U	ug/kg dry	200	11/03/10	11/11/10	CLP SOM01.2 B
88-74-4	2-Nitroaniline	390	U	ug/kg dry	390	11/03/10	11/11/10	CLP SOM01.2 B
88-75-5	2-Nitrophenol	200	U	ug/kg dry	200	11/03/10	11/11/10	CLP SOM01.2 B
91-94-1	3,3'-Dichlorobenzidine	200	U	ug/kg dry	200	11/03/10	11/11/10	CLP SOM01.2 B
99-09-2	3-Nitroaniline	390	U	ug/kg dry	390	11/03/10	11/11/10	CLP SOM01.2 B
101-55-3	4-Bromophenyl phenyl ether	200	U	ug/kg dry	200	11/03/10	11/11/10	CLP SOM01.2 B
59-50-7	4-Chloro-3-methylphenol	200	U	ug/kg dry	200	11/03/10	11/11/10	CLP SOM01.2 B
106-47-8	4-Chloroaniline	200	U	ug/kg dry	200	11/03/10	11/11/10	CLP SOM01.2 B
7005-72-3	4-Chlorophenyl phenyl ether	200	U	ug/kg dry	200	11/03/10	11/11/10	CLP SOM01.2 B
100-01-6	4-Nitroaniline	390	U, J, QC-1	ug/kg dry	390	11/03/10	11/11/10	CLP SOM01.2 B
100-02-7	4-Nitrophenol	390	U	ug/kg dry	390	11/03/10	11/11/10	CLP SOM01.2 B
83-32-9	Acenaphthene	3.9	U	ug/kg dry	3.9	11/03/10	11/16/10	CLP SOM01.2 BS
208-96-8	Acenaphthylene	7.5		ug/kg dry	3.9	11/03/10	11/16/10	CLP SOM01.2 BS



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D.A.R.T. Id: 11-0019

Project: 11-0019, Tronox Inc - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 11-0019, Tronox Inc

Contract Lab Case: 40729

Sample ID: 13753ASF

Lab ID: C104601-31

MD No:

Station ID: 13753

Matrix: Surface Soil

D No: 65A3 MITKEM

Date Collected: 10/26/10 8:40

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
98-86-2	Acetophenone	200	U	ug/kg dry	200	11/03/10	11/11/10	CLP SOM01.2 B
120-12-7	Anthracene	9.4		ug/kg dry	3.9	11/03/10	11/16/10	CLP SOM01.2 BS
1912-24-9	Atrazine	200	U	ug/kg dry	200	11/03/10	11/11/10	CLP SOM01.2 B
100-52-7	Benzaldehyde	200	U	ug/kg dry	200	11/03/10	11/11/10	CLP SOM01.2 B
56-55-3	Benzo(a)anthracene	32		ug/kg dry	3.9	11/03/10	11/16/10	CLP SOM01.2 BS
50-32-8	Benzo(a)pyrene	68		ug/kg dry	39	11/03/10	11/16/10	CLP SOM01.2 BS
205-99-2	Benzo(b)fluoranthene	110		ug/kg dry	39	11/03/10	11/16/10	CLP SOM01.2 BS
191-24-2	Benzo(g,h,i)perylene	55		ug/kg dry	39	11/03/10	11/16/10	CLP SOM01.2 BS
207-08-9	Benzo(k)fluoranthene	74	J, QC-2	ug/kg dry	39	11/03/10	11/16/10	CLP SOM01.2 BS
85-68-7	Benzyl butyl phthalate	200	U	ug/kg dry	200	11/03/10	11/11/10	CLP SOM01.2 B
111-91-1	Bis(2-chloroethoxy)methane	200	U	ug/kg dry	200	11/03/10	11/11/10	CLP SOM01.2 B
111-44-4	bis(2-Chloroethyl) Ether	200	U	ug/kg dry	200	11/03/10	11/11/10	CLP SOM01.2 B
39638-32-9	Bis(2-chloroisopropyl) ether	200	U	ug/kg dry	200	11/03/10	11/11/10	CLP SOM01.2 B
117-81-7	Bis(2-ethylhexyl) phthalate	210	J, QC-2	ug/kg dry	200	11/03/10	11/11/10	CLP SOM01.2 B
105-60-2	Caprolactam	200	U	ug/kg dry	200	11/03/10	11/11/10	CLP SOM01.2 B
86-74-8	Carbazole	200	U	ug/kg dry	200	11/03/10	11/11/10	CLP SOM01.2 B
218-01-9	Chrysene	56		ug/kg dry	39	11/03/10	11/16/10	CLP SOM01.2 BS
53-70-3	Dibenzo(a,h)anthracene	14		ug/kg dry	3.9	11/03/10	11/16/10	CLP SOM01.2 BS
132-64-9	Dibenzofuran	200	U	ug/kg dry	200	11/03/10	11/11/10	CLP SOM01.2 B
84-66-2	Diethyl phthalate	200	U	ug/kg dry	200	11/03/10	11/11/10	CLP SOM01.2 B
131-11-3	Dimethyl phthalate	200	U	ug/kg dry	200	11/03/10	11/11/10	CLP SOM01.2 B
84-74-2	Di-n-butylphthalate	200	U	ug/kg dry	200	11/03/10	11/11/10	CLP SOM01.2 B
117-84-0	Di-n-octylphthalate	200	U	ug/kg dry	200	11/03/10	11/11/10	CLP SOM01.2 B
206-44-0	Fluoranthene	75		ug/kg dry	39	11/03/10	11/16/10	CLP SOM01.2 BS
86-73-7	Fluorene	3.9	U	ug/kg dry	3.9	11/03/10	11/16/10	CLP SOM01.2 BS
118-74-1	Hexachlorobenzene (HCB)	200	U	ug/kg dry	200	11/03/10	11/11/10	CLP SOM01.2 B
87-68-3	Hexachlorobutadiene	200	U	ug/kg dry	200	11/03/10	11/11/10	CLP SOM01.2 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	200	U	ug/kg dry	200	11/03/10	11/11/10	CLP SOM01.2 B
67-72-1	Hexachloroethane	200	U	ug/kg dry	200	11/03/10	11/11/10	CLP SOM01.2 B
193-39-5	Indeno (1,2,3-cd) pyrene	50		ug/kg dry	39	11/03/10	11/16/10	CLP SOM01.2 BS
78-59-1	Isophorone	200	U	ug/kg dry	200	11/03/10	11/11/10	CLP SOM01.2 B



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0019

Project: 11-0019, Tronox Inc - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 11-0019, Tronox Inc

Contract Lab Case: 40729

Sample ID: 13753ASF

Lab ID: C104601-31

MD No:

Station ID: 13753

Matrix: Surface Soil

D No: 65A3 MITKEM

Date Collected: 10/26/10 8:40

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
91-20-3	Naphthalene	3.9	U	ug/kg dry	3.9	11/03/10	11/16/10	CLP SOM01.2 BS
98-95-3	Nitrobenzene	200	U	ug/kg dry	200	11/03/10	11/11/10	CLP SOM01.2 B
621-64-7	n-Nitroso di-n-Propylamine	200	U	ug/kg dry	200	11/03/10	11/11/10	CLP SOM01.2 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	200	U	ug/kg dry	200	11/03/10	11/11/10	CLP SOM01.2 B
87-86-5	Pentachlorophenol	4.8	J, CLP01, CLP16, QC-1	ug/kg dry	8.0	11/03/10	11/16/10	CLP SOM01.2 BS
85-01-8	Phenanthrene	24		ug/kg dry	3.9	11/03/10	11/16/10	CLP SOM01.2 BS
108-95-2	Phenol	200	U	ug/kg dry	200	11/03/10	11/11/10	CLP SOM01.2 B
129-00-0	Pyrene	68	J, CLP01	ug/kg dry	200	11/03/10	11/11/10	CLP SOM01.2 B
Tentatively Identified Compounds:								
R4-6501	Unidentified Compound(s)	6000	J, CLP15	ug/kg dry		11/03/10	11/11/10	CLP SOM01.2 B



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D.A.R.T. Id: 11-0019

Project: 11-0019, Tronox Inc - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 11-0019, Tronox Inc

Contract Lab Case: 40729

Sample ID: 13755ASF

Lab ID: C104601-32

MD No:

Station ID: 13755

Matrix: Surface Soil

D No: 65A4 MITKEM

Date Collected: 10/26/10 9:50

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	18		%		11/03/10	11/16/10	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	200	U	ug/kg dry	200	11/03/10	11/16/10	CLP SOM01.2 B
92-52-4	1,1-Biphenyl	200	U	ug/kg dry	200	11/03/10	11/16/10	CLP SOM01.2 B
95-94-3	1,2,4,5-Tetrachlorobenzene	200	U	ug/kg dry	200	11/03/10	11/16/10	CLP SOM01.2 B
58-90-2	2,3,4,6-Tetrachlorophenol	200	U	ug/kg dry	200	11/03/10	11/16/10	CLP SOM01.2 B
95-95-4	2,4,5-Trichlorophenol	200	U	ug/kg dry	200	11/03/10	11/16/10	CLP SOM01.2 B
88-06-2	2,4,6-Trichlorophenol	200	U	ug/kg dry	200	11/03/10	11/16/10	CLP SOM01.2 B
120-83-2	2,4-Dichlorophenol	200	U	ug/kg dry	200	11/03/10	11/16/10	CLP SOM01.2 B
105-67-9	2,4-Dimethylphenol	200	U, J, CLP16	ug/kg dry	200	11/03/10	11/16/10	CLP SOM01.2 B
51-28-5	2,4-Dinitrophenol	400	U, J, QC-1, CLP16	ug/kg dry	400	11/03/10	11/16/10	CLP SOM01.2 B
121-14-2	2,4-Dinitrotoluene	200	U	ug/kg dry	200	11/03/10	11/16/10	CLP SOM01.2 B
606-20-2	2,6-Dinitrotoluene	200	U	ug/kg dry	200	11/03/10	11/16/10	CLP SOM01.2 B
91-58-7	2-Chloronaphthalene	200	U	ug/kg dry	200	11/03/10	11/16/10	CLP SOM01.2 B
95-57-8	2-Chlorophenol	200	U	ug/kg dry	200	11/03/10	11/16/10	CLP SOM01.2 B
534-52-1	2-Methyl-4,6-dinitrophenol	400	U, J, CLP16	ug/kg dry	400	11/03/10	11/16/10	CLP SOM01.2 B
91-57-6	2-Methylnaphthalene	4.0	U	ug/kg dry	4.0	11/03/10	11/16/10	CLP SOM01.2 BS
95-48-7	2-Methylphenol	200	U	ug/kg dry	200	11/03/10	11/16/10	CLP SOM01.2 B
88-74-4	2-Nitroaniline	400	U	ug/kg dry	400	11/03/10	11/16/10	CLP SOM01.2 B
88-75-5	2-Nitrophenol	200	U	ug/kg dry	200	11/03/10	11/16/10	CLP SOM01.2 B
91-94-1	3,3'-Dichlorobenzidine	200	U	ug/kg dry	200	11/03/10	11/16/10	CLP SOM01.2 B
99-09-2	3-Nitroaniline	400	U	ug/kg dry	400	11/03/10	11/16/10	CLP SOM01.2 B
101-55-3	4-Bromophenyl phenyl ether	200	U	ug/kg dry	200	11/03/10	11/16/10	CLP SOM01.2 B
59-50-7	4-Chloro-3-methylphenol	200	U	ug/kg dry	200	11/03/10	11/16/10	CLP SOM01.2 B
106-47-8	4-Chloroaniline	200	U	ug/kg dry	200	11/03/10	11/16/10	CLP SOM01.2 B
7005-72-3	4-Chlorophenyl phenyl ether	200	U	ug/kg dry	200	11/03/10	11/16/10	CLP SOM01.2 B
100-01-6	4-Nitroaniline	400	U	ug/kg dry	400	11/03/10	11/16/10	CLP SOM01.2 B
100-02-7	4-Nitrophenol	400	U	ug/kg dry	400	11/03/10	11/16/10	CLP SOM01.2 B
83-32-9	Acenaphthene	5.6		ug/kg dry	4.0	11/03/10	11/16/10	CLP SOM01.2 BS
208-96-8	Acenaphthylene	59		ug/kg dry	40	11/03/10	11/17/10	CLP SOM01.2 BS



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D.A.R.T. Id: 11-0019

Project: 11-0019, Tronox Inc - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 11-0019, Tronox Inc

Contract Lab Case: 40729

Sample ID: 13755ASF

Lab ID: C104601-32

MD No:

Station ID: 13755

Matrix: Surface Soil

D No: 65A4 MITKEM

Date Collected: 10/26/10 9:50

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
98-86-2	Acetophenone	81	J, CLP01	ug/kg dry	200	11/03/10	11/16/10	CLP SOM01.2 B
120-12-7	Anthracene	50		ug/kg dry	40	11/03/10	11/17/10	CLP SOM01.2 BS
1912-24-9	Atrazine	200	U	ug/kg dry	200	11/03/10	11/16/10	CLP SOM01.2 B
100-52-7	Benzaldehyde	200	U, J, CLP16	ug/kg dry	200	11/03/10	11/16/10	CLP SOM01.2 B
56-55-3	Benzo(a)anthracene	250		ug/kg dry	40	11/03/10	11/17/10	CLP SOM01.2 BS
50-32-8	Benzo(a)pyrene	120	J, CLP01	ug/kg dry	200	11/03/10	11/16/10	CLP SOM01.2 B
205-99-2	Benzo(b)fluoranthene	160	J, CLP01, QC-2	ug/kg dry	200	11/03/10	11/16/10	CLP SOM01.2 B
191-24-2	Benzo(g,h,i)perylene	360		ug/kg dry	40	11/03/10	11/17/10	CLP SOM01.2 BS
207-08-9	Benzo(k)fluoranthene	120	J, CLP01	ug/kg dry	200	11/03/10	11/16/10	CLP SOM01.2 B
85-68-7	Benzyl butyl phthalate	200	U	ug/kg dry	200	11/03/10	11/16/10	CLP SOM01.2 B
111-91-1	Bis(2-chloroethoxy)methane	200	U	ug/kg dry	200	11/03/10	11/16/10	CLP SOM01.2 B
111-44-4	bis(2-Chloroethyl) Ether	200	U	ug/kg dry	200	11/03/10	11/16/10	CLP SOM01.2 B
39638-32-9	Bis(2-chloroisopropyl) ether	200	U	ug/kg dry	200	11/03/10	11/16/10	CLP SOM01.2 B
117-81-7	Bis(2-ethylhexyl) phthalate	290	J, QC-2	ug/kg dry	200	11/03/10	11/16/10	CLP SOM01.2 B
105-60-2	Caprolactam	200	U	ug/kg dry	200	11/03/10	11/16/10	CLP SOM01.2 B
86-74-8	Carbazole	200	U	ug/kg dry	200	11/03/10	11/16/10	CLP SOM01.2 B
218-01-9	Chrysene	350		ug/kg dry	40	11/03/10	11/17/10	CLP SOM01.2 BS
53-70-3	Dibenzo(a,h)anthracene	110		ug/kg dry	40	11/03/10	11/17/10	CLP SOM01.2 BS
132-64-9	Dibenzofuran	200	U	ug/kg dry	200	11/03/10	11/16/10	CLP SOM01.2 B
84-66-2	Diethyl phthalate	200	U	ug/kg dry	200	11/03/10	11/16/10	CLP SOM01.2 B
131-11-3	Dimethyl phthalate	200	U	ug/kg dry	200	11/03/10	11/16/10	CLP SOM01.2 B
84-74-2	Di-n-butylphthalate	200	U	ug/kg dry	200	11/03/10	11/16/10	CLP SOM01.2 B
117-84-0	Di-n-octylphthalate	200	U	ug/kg dry	200	11/03/10	11/16/10	CLP SOM01.2 B
206-44-0	Fluoranthene	200	J, QS-5	ug/kg dry	200	11/03/10	11/16/10	CLP SOM01.2 B
86-73-7	Fluorene	11		ug/kg dry	4.0	11/03/10	11/16/10	CLP SOM01.2 BS
118-74-1	Hexachlorobenzene (HCB)	200	U	ug/kg dry	200	11/03/10	11/16/10	CLP SOM01.2 B
87-68-3	Hexachlorobutadiene	200	U	ug/kg dry	200	11/03/10	11/16/10	CLP SOM01.2 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	200	U, J, QC-1	ug/kg dry	200	11/03/10	11/16/10	CLP SOM01.2 B
67-72-1	Hexachloroethane	200	U	ug/kg dry	200	11/03/10	11/16/10	CLP SOM01.2 B
193-39-5	Indeno (1,2,3-cd) pyrene	320		ug/kg dry	40	11/03/10	11/17/10	CLP SOM01.2 BS



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Region 4 Science and Ecosystem Support Division
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D.A.R.T. Id: 11-0019

Project: 11-0019, Tronox Inc - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 11-0019, Tronox Inc

Contract Lab Case: 40729

Sample ID: 13755ASF

Lab ID: C104601-32

MD No:

Station ID: 13755

Matrix: Surface Soil

D No: 65A4 MITKEM

Date Collected: 10/26/10 9:50

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
78-59-1	Isophorone	200	U	ug/kg dry	200	11/03/10	11/16/10	CLP SOM01.2 B
91-20-3	Naphthalene	4.0	U	ug/kg dry	4.0	11/03/10	11/16/10	CLP SOM01.2 BS
98-95-3	Nitrobenzene	200	U	ug/kg dry	200	11/03/10	11/16/10	CLP SOM01.2 B
621-64-7	n-Nitroso di-n-Propylamine	200	U	ug/kg dry	200	11/03/10	11/16/10	CLP SOM01.2 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	200	U	ug/kg dry	200	11/03/10	11/16/10	CLP SOM01.2 B
87-86-5	Pentachlorophenol	6.9	J, CLP01, CLP16, QC-1	ug/kg dry	8.0	11/03/10	11/16/10	CLP SOM01.2 BS
85-01-8	Phenanthrene	180		ug/kg dry	40	11/03/10	11/17/10	CLP SOM01.2 BS
108-95-2	Phenol	200	U	ug/kg dry	200	11/03/10	11/16/10	CLP SOM01.2 B
129-00-0	Pyrene	310	J, QC-2, QS-5	ug/kg dry	200	11/03/10	11/16/10	CLP SOM01.2 B
Tentatively Identified Compounds:								
7616-22-0	.gamma.-Tocopherol	1000	NJ, CLP15	ug/kg dry		11/03/10	11/16/10	CLP SOM01.2 B
2467-02-9	Phenol, 2,2'-methylenebis-	300	NJ, CLP15	ug/kg dry		11/03/10	11/16/10	CLP SOM01.2 B
638-53-9	Tridecanoic acid	400	NJ, CLP15	ug/kg dry		11/03/10	11/16/10	CLP SOM01.2 B
R4-6501	Unidentified Compound(s)	20000	J, CLP15	ug/kg dry		11/03/10	11/16/10	CLP SOM01.2 B
10191-41-0	Vitamin E	2000	NJ, CLP15	ug/kg dry		11/03/10	11/16/10	CLP SOM01.2 B



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D.A.R.T. Id: 11-0019
 Project: 11-0019, Tronox Inc - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 11-0019, Tronox Inc

Contract Lab Case: 40729

Sample ID: 13756ASF

Lab ID: C104601-33

MD No:

Station ID: 13756

Matrix: Surface Soil

D No: 65A5 MITKEM

Date Collected: 10/26/10 10:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	17		%		11/03/10	11/11/10	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	200	U	ug/kg dry	200	11/03/10	11/11/10	CLP SOM01.2 B
92-52-4	1,1-Biphenyl	200	U	ug/kg dry	200	11/03/10	11/11/10	CLP SOM01.2 B
95-94-3	1,2,4,5-Tetrachlorobenzene	200	U	ug/kg dry	200	11/03/10	11/11/10	CLP SOM01.2 B
58-90-2	2,3,4,6-Tetrachlorophenol	200	U	ug/kg dry	200	11/03/10	11/11/10	CLP SOM01.2 B
95-95-4	2,4,5-Trichlorophenol	200	U	ug/kg dry	200	11/03/10	11/11/10	CLP SOM01.2 B
88-06-2	2,4,6-Trichlorophenol	200	U	ug/kg dry	200	11/03/10	11/11/10	CLP SOM01.2 B
120-83-2	2,4-Dichlorophenol	200	U	ug/kg dry	200	11/03/10	11/11/10	CLP SOM01.2 B
105-67-9	2,4-Dimethylphenol	200	U, J, QC-1	ug/kg dry	200	11/03/10	11/11/10	CLP SOM01.2 B
51-28-5	2,4-Dinitrophenol	400	U, J, CLP16, QC-1	ug/kg dry	400	11/03/10	11/11/10	CLP SOM01.2 B
121-14-2	2,4-Dinitrotoluene	200	U	ug/kg dry	200	11/03/10	11/11/10	CLP SOM01.2 B
606-20-2	2,6-Dinitrotoluene	200	U	ug/kg dry	200	11/03/10	11/11/10	CLP SOM01.2 B
91-58-7	2-Chloronaphthalene	200	U	ug/kg dry	200	11/03/10	11/11/10	CLP SOM01.2 B
95-57-8	2-Chlorophenol	200	U	ug/kg dry	200	11/03/10	11/11/10	CLP SOM01.2 B
534-52-1	2-Methyl-4,6-dinitrophenol	400	U	ug/kg dry	400	11/03/10	11/11/10	CLP SOM01.2 B
91-57-6	2-Methylnaphthalene	4.0	U	ug/kg dry	4.0	11/03/10	11/16/10	CLP SOM01.2 BS
95-48-7	2-Methylphenol	200	U	ug/kg dry	200	11/03/10	11/11/10	CLP SOM01.2 B
88-74-4	2-Nitroaniline	400	U	ug/kg dry	400	11/03/10	11/11/10	CLP SOM01.2 B
88-75-5	2-Nitrophenol	200	U	ug/kg dry	200	11/03/10	11/11/10	CLP SOM01.2 B
91-94-1	3,3'-Dichlorobenzidine	200	U, J, QS-4	ug/kg dry	200	11/03/10	11/11/10	CLP SOM01.2 B
99-09-2	3-Nitroaniline	400	U	ug/kg dry	400	11/03/10	11/11/10	CLP SOM01.2 B
101-55-3	4-Bromophenyl phenyl ether	200	U	ug/kg dry	200	11/03/10	11/11/10	CLP SOM01.2 B
59-50-7	4-Chloro-3-methylphenol	200	U	ug/kg dry	200	11/03/10	11/11/10	CLP SOM01.2 B
106-47-8	4-Chloroaniline	200	U, J, QS-4	ug/kg dry	200	11/03/10	11/11/10	CLP SOM01.2 B
7005-72-3	4-Chlorophenyl phenyl ether	200	U	ug/kg dry	200	11/03/10	11/11/10	CLP SOM01.2 B
100-01-6	4-Nitroaniline	400	U, J, QC-1	ug/kg dry	400	11/03/10	11/11/10	CLP SOM01.2 B
100-02-7	4-Nitrophenol	400	U	ug/kg dry	400	11/03/10	11/11/10	CLP SOM01.2 B
83-32-9	Acenaphthene	6.2		ug/kg dry	4.0	11/03/10	11/16/10	CLP SOM01.2 BS
208-96-8	Acenaphthylene	77		ug/kg dry	40	11/03/10	11/16/10	CLP SOM01.2 BS



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D.A.R.T. Id: 11-0019
 Project: 11-0019, Tronox Inc - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 11-0019, Tronox Inc

Contract Lab Case: 40729

Sample ID: 13756ASF

Lab ID: C104601-33

MD No:

Station ID: 13756

Matrix: Surface Soil

D No: 65A5 MITKEM

Date Collected: 10/26/10 10:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
98-86-2	Acetophenone	200	U	ug/kg dry	200	11/03/10	11/11/10	CLP SOM01.2 B
120-12-7	Anthracene	75		ug/kg dry	40	11/03/10	11/16/10	CLP SOM01.2 BS
1912-24-9	Atrazine	200	U	ug/kg dry	200	11/03/10	11/11/10	CLP SOM01.2 B
100-52-7	Benzaldehyde	200	U	ug/kg dry	200	11/03/10	11/11/10	CLP SOM01.2 B
56-55-3	Benzo(a)anthracene	240		ug/kg dry	200	11/03/10	11/11/10	CLP SOM01.2 B
50-32-8	Benzo(a)pyrene	290		ug/kg dry	200	11/03/10	11/11/10	CLP SOM01.2 B
205-99-2	Benzo(b)fluoranthene	380		ug/kg dry	200	11/03/10	11/11/10	CLP SOM01.2 B
191-24-2	Benzo(g,h,i)perylene	200	J, CLP01	ug/kg dry	200	11/03/10	11/11/10	CLP SOM01.2 B
207-08-9	Benzo(k)fluoranthene	380		ug/kg dry	200	11/03/10	11/11/10	CLP SOM01.2 B
85-68-7	Benzyl butyl phthalate	200	U	ug/kg dry	200	11/03/10	11/11/10	CLP SOM01.2 B
111-91-1	Bis(2-chloroethoxy)methane	200	U	ug/kg dry	200	11/03/10	11/11/10	CLP SOM01.2 B
111-44-4	bis(2-Chloroethyl) Ether	200	U	ug/kg dry	200	11/03/10	11/11/10	CLP SOM01.2 B
39638-32-9	Bis(2-chloroisopropyl) ether	200	U	ug/kg dry	200	11/03/10	11/11/10	CLP SOM01.2 B
117-81-7	Bis(2-ethylhexyl) phthalate	360	J, QC-2	ug/kg dry	200	11/03/10	11/11/10	CLP SOM01.2 B
105-60-2	Caprolactam	200	U	ug/kg dry	200	11/03/10	11/11/10	CLP SOM01.2 B
86-74-8	Carbazole	200	U	ug/kg dry	200	11/03/10	11/11/10	CLP SOM01.2 B
218-01-9	Chrysene	300		ug/kg dry	200	11/03/10	11/11/10	CLP SOM01.2 B
53-70-3	Dibenzo(a,h)anthracene	150		ug/kg dry	40	11/03/10	11/16/10	CLP SOM01.2 BS
132-64-9	Dibenzofuran	200	U	ug/kg dry	200	11/03/10	11/11/10	CLP SOM01.2 B
84-66-2	Diethyl phthalate	200	U	ug/kg dry	200	11/03/10	11/11/10	CLP SOM01.2 B
131-11-3	Dimethyl phthalate	200	U	ug/kg dry	200	11/03/10	11/11/10	CLP SOM01.2 B
84-74-2	Di-n-butylphthalate	200	U	ug/kg dry	200	11/03/10	11/11/10	CLP SOM01.2 B
117-84-0	Di-n-octylphthalate	200	U	ug/kg dry	200	11/03/10	11/11/10	CLP SOM01.2 B
206-44-0	Fluoranthene	330		ug/kg dry	200	11/03/10	11/11/10	CLP SOM01.2 B
86-73-7	Fluorene	10		ug/kg dry	4.0	11/03/10	11/16/10	CLP SOM01.2 BS
118-74-1	Hexachlorobenzene (HCB)	200	U	ug/kg dry	200	11/03/10	11/11/10	CLP SOM01.2 B
87-68-3	Hexachlorobutadiene	200	U	ug/kg dry	200	11/03/10	11/11/10	CLP SOM01.2 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	200	U, J, QS-4	ug/kg dry	200	11/03/10	11/11/10	CLP SOM01.2 B
67-72-1	Hexachloroethane	200	U	ug/kg dry	200	11/03/10	11/11/10	CLP SOM01.2 B
193-39-5	Indeno (1,2,3-cd) pyrene	160	J, CLP01	ug/kg dry	200	11/03/10	11/11/10	CLP SOM01.2 B
78-59-1	Isophorone	200	U	ug/kg dry	200	11/03/10	11/11/10	CLP SOM01.2 B



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 4 Science and Ecosystem Support Division
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0019
 Project: 11-0019, Tronox Inc - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 11-0019, Tronox Inc

Contract Lab Case: 40729

Sample ID: 13756ASF

Lab ID: C104601-33

MD No:

Station ID: 13756

Matrix: Surface Soil

D No: 65A5 MITKEM

Date Collected: 10/26/10 10:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
91-20-3	Naphthalene	4.0	U	ug/kg dry	4.0	11/03/10	11/16/10	CLP SOM01.2 BS
98-95-3	Nitrobenzene	200	U	ug/kg dry	200	11/03/10	11/11/10	CLP SOM01.2 B
621-64-7	n-Nitroso di-n-Propylamine	200	U	ug/kg dry	200	11/03/10	11/11/10	CLP SOM01.2 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	200	U	ug/kg dry	200	11/03/10	11/11/10	CLP SOM01.2 B
87-86-5	Pentachlorophenol	6.1	J, CLP01, CLP16, QC-1	ug/kg dry	8.1	11/03/10	11/16/10	CLP SOM01.2 BS
85-01-8	Phenanthrene	230		ug/kg dry	40	11/03/10	11/16/10	CLP SOM01.2 BS
108-95-2	Phenol	200	U	ug/kg dry	200	11/03/10	11/11/10	CLP SOM01.2 B
129-00-0	Pyrene	490		ug/kg dry	200	11/03/10	11/11/10	CLP SOM01.2 B
Tentatively Identified Compounds:								
83-47-6	.gamma.-Sitosterol	800	NJ, CLP15	ug/kg dry		11/03/10	11/11/10	CLP SOM01.2 B
57-10-3	n-Hexadecanoic acid	500	NJ, CLP15	ug/kg dry		11/03/10	11/11/10	CLP SOM01.2 B
544-63-8	Tetradecanoic Acid	400	NJ, CLP15	ug/kg dry		11/03/10	11/11/10	CLP SOM01.2 B
R4-6501	Unidentified Compound(s)	4000	J, CLP15	ug/kg dry		11/03/10	11/11/10	CLP SOM01.2 B



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D.A.R.T. Id: 11-0019
Project: 11-0019, Tronox Inc - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 11-0019, Tronox Inc

Contract Lab Case: 40729

Sample ID: 13758ASF

Lab ID: C104601-34

MD No:

Station ID: 13758

Matrix: Surface Soil

D No: 65A6 MITKEM

Date Collected: 10/26/10 10:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	22		%		11/03/10	11/11/10	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	220	U	ug/kg dry	220	11/03/10	11/11/10	CLP SOM01.2 B
92-52-4	1,1-Biphenyl	220	U	ug/kg dry	220	11/03/10	11/11/10	CLP SOM01.2 B
95-94-3	1,2,4,5-Tetrachlorobenzene	220	U	ug/kg dry	220	11/03/10	11/11/10	CLP SOM01.2 B
58-90-2	2,3,4,6-Tetrachlorophenol	220	U	ug/kg dry	220	11/03/10	11/11/10	CLP SOM01.2 B
95-95-4	2,4,5-Trichlorophenol	220	U	ug/kg dry	220	11/03/10	11/11/10	CLP SOM01.2 B
88-06-2	2,4,6-Trichlorophenol	220	U	ug/kg dry	220	11/03/10	11/11/10	CLP SOM01.2 B
120-83-2	2,4-Dichlorophenol	220	U	ug/kg dry	220	11/03/10	11/11/10	CLP SOM01.2 B
105-67-9	2,4-Dimethylphenol	220	U, J, QC-1	ug/kg dry	220	11/03/10	11/11/10	CLP SOM01.2 B
51-28-5	2,4-Dinitrophenol	420	U, J, QC-1, CLP16	ug/kg dry	420	11/03/10	11/11/10	CLP SOM01.2 B
121-14-2	2,4-Dinitrotoluene	220	U	ug/kg dry	220	11/03/10	11/11/10	CLP SOM01.2 B
606-20-2	2,6-Dinitrotoluene	220	U	ug/kg dry	220	11/03/10	11/11/10	CLP SOM01.2 B
91-58-7	2-Chloronaphthalene	220	U	ug/kg dry	220	11/03/10	11/11/10	CLP SOM01.2 B
95-57-8	2-Chlorophenol	220	U	ug/kg dry	220	11/03/10	11/11/10	CLP SOM01.2 B
534-52-1	2-Methyl-4,6-dinitrophenol	420	U	ug/kg dry	420	11/03/10	11/11/10	CLP SOM01.2 B
91-57-6	2-Methylnaphthalene	6.6		ug/kg dry	4.2	11/03/10	11/16/10	CLP SOM01.2 BS
95-48-7	2-Methylphenol	220	U	ug/kg dry	220	11/03/10	11/11/10	CLP SOM01.2 B
88-74-4	2-Nitroaniline	420	U	ug/kg dry	420	11/03/10	11/11/10	CLP SOM01.2 B
88-75-5	2-Nitrophenol	220	U	ug/kg dry	220	11/03/10	11/11/10	CLP SOM01.2 B
91-94-1	3,3'-Dichlorobenzidine	220	U	ug/kg dry	220	11/03/10	11/11/10	CLP SOM01.2 B
99-09-2	3-Nitroaniline	420	U	ug/kg dry	420	11/03/10	11/11/10	CLP SOM01.2 B
101-55-3	4-Bromophenyl phenyl ether	220	U	ug/kg dry	220	11/03/10	11/11/10	CLP SOM01.2 B
59-50-7	4-Chloro-3-methylphenol	220	U	ug/kg dry	220	11/03/10	11/11/10	CLP SOM01.2 B
106-47-8	4-Chloroaniline	220	U	ug/kg dry	220	11/03/10	11/11/10	CLP SOM01.2 B
7005-72-3	4-Chlorophenyl phenyl ether	220	U	ug/kg dry	220	11/03/10	11/11/10	CLP SOM01.2 B
100-01-6	4-Nitroaniline	420	U, J, QC-1	ug/kg dry	420	11/03/10	11/11/10	CLP SOM01.2 B
100-02-7	4-Nitrophenol	420	U	ug/kg dry	420	11/03/10	11/11/10	CLP SOM01.2 B
83-32-9	Acenaphthene	4.6		ug/kg dry	4.2	11/03/10	11/16/10	CLP SOM01.2 BS
208-96-8	Acenaphthylene	32		ug/kg dry	4.2	11/03/10	11/16/10	CLP SOM01.2 BS



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D.A.R.T. Id: 11-0019

Project: 11-0019, Tronox Inc - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 11-0019, Tronox Inc

Contract Lab Case: 40729

Sample ID: 13758ASF

Lab ID: C104601-34

MD No:

Station ID: 13758

Matrix: Surface Soil

D No: 65A6 MITKEM

Date Collected: 10/26/10 10:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
98-86-2	Acetophenone	220	U	ug/kg dry	220	11/03/10	11/11/10	CLP SOM01.2 B
120-12-7	Anthracene	35		ug/kg dry	4.2	11/03/10	11/16/10	CLP SOM01.2 BS
1912-24-9	Atrazine	220	U	ug/kg dry	220	11/03/10	11/11/10	CLP SOM01.2 B
100-52-7	Benzaldehyde	220	U	ug/kg dry	220	11/03/10	11/11/10	CLP SOM01.2 B
56-55-3	Benzo(a)anthracene	220		ug/kg dry	42	11/03/10	11/16/10	CLP SOM01.2 BS
50-32-8	Benzo(a)pyrene	370		ug/kg dry	42	11/03/10	11/16/10	CLP SOM01.2 BS
205-99-2	Benzo(b)fluoranthene	200	J, CLP01	ug/kg dry	220	11/03/10	11/11/10	CLP SOM01.2 B
191-24-2	Benzo(g,h,i)perylene	270		ug/kg dry	42	11/03/10	11/16/10	CLP SOM01.2 BS
207-08-9	Benzo(k)fluoranthene	380	J, QC-2	ug/kg dry	42	11/03/10	11/16/10	CLP SOM01.2 BS
85-68-7	Benzyl butyl phthalate	220	U	ug/kg dry	220	11/03/10	11/11/10	CLP SOM01.2 B
111-91-1	Bis(2-chloroethoxy)methane	220	U	ug/kg dry	220	11/03/10	11/11/10	CLP SOM01.2 B
111-44-4	bis(2-Chloroethyl) Ether	220	U	ug/kg dry	220	11/03/10	11/11/10	CLP SOM01.2 B
39638-32-9	Bis(2-chloroisopropyl) ether	220	U	ug/kg dry	220	11/03/10	11/11/10	CLP SOM01.2 B
117-81-7	Bis(2-ethylhexyl) phthalate	220	U	ug/kg dry	220	11/03/10	11/11/10	CLP SOM01.2 B
105-60-2	Caprolactam	220	U	ug/kg dry	220	11/03/10	11/11/10	CLP SOM01.2 B
86-74-8	Carbazole	220	U	ug/kg dry	220	11/03/10	11/11/10	CLP SOM01.2 B
218-01-9	Chrysene	280		ug/kg dry	42	11/03/10	11/16/10	CLP SOM01.2 BS
53-70-3	Dibenzo(a,h)anthracene	83		ug/kg dry	42	11/03/10	11/16/10	CLP SOM01.2 BS
132-64-9	Dibenzofuran	220	U	ug/kg dry	220	11/03/10	11/11/10	CLP SOM01.2 B
84-66-2	Diethyl phthalate	220	U	ug/kg dry	220	11/03/10	11/11/10	CLP SOM01.2 B
131-11-3	Dimethyl phthalate	220	U	ug/kg dry	220	11/03/10	11/11/10	CLP SOM01.2 B
84-74-2	Di-n-butylphthalate	220	U	ug/kg dry	220	11/03/10	11/11/10	CLP SOM01.2 B
117-84-0	Di-n-octylphthalate	220	U	ug/kg dry	220	11/03/10	11/11/10	CLP SOM01.2 B
206-44-0	Fluoranthene	180	J, CLP01	ug/kg dry	220	11/03/10	11/11/10	CLP SOM01.2 B
86-73-7	Fluorene	7.7		ug/kg dry	4.2	11/03/10	11/16/10	CLP SOM01.2 BS
118-74-1	Hexachlorobenzene (HCB)	220	U	ug/kg dry	220	11/03/10	11/11/10	CLP SOM01.2 B
87-68-3	Hexachlorobutadiene	220	U	ug/kg dry	220	11/03/10	11/11/10	CLP SOM01.2 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	220	U	ug/kg dry	220	11/03/10	11/11/10	CLP SOM01.2 B
67-72-1	Hexachloroethane	220	U	ug/kg dry	220	11/03/10	11/11/10	CLP SOM01.2 B
193-39-5	Indeno (1,2,3-cd) pyrene	250		ug/kg dry	42	11/03/10	11/16/10	CLP SOM01.2 BS
78-59-1	Isophorone	220	U	ug/kg dry	220	11/03/10	11/11/10	CLP SOM01.2 B



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Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0019

Project: 11-0019, Tronox Inc - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 11-0019, Tronox Inc

Contract Lab Case: 40729

Sample ID: 13758ASF

Lab ID: C104601-34

MD No:

Station ID: 13758

Matrix: Surface Soil

D No: 65A6 MITKEM

Date Collected: 10/26/10 10:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
91-20-3	Naphthalene	4.7		ug/kg dry	4.2	11/03/10	11/16/10	CLP SOM01.2 BS
98-95-3	Nitrobenzene	220	U	ug/kg dry	220	11/03/10	11/11/10	CLP SOM01.2 B
621-64-7	n-Nitroso di-n-Propylamine	220	U	ug/kg dry	220	11/03/10	11/11/10	CLP SOM01.2 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	220	U	ug/kg dry	220	11/03/10	11/11/10	CLP SOM01.2 B
87-86-5	Pentachlorophenol	6.8	J, CLP01, CLP16, QC-1	ug/kg dry	8.6	11/03/10	11/16/10	CLP SOM01.2 BS
85-01-8	Phenanthrene	190		ug/kg dry	42	11/03/10	11/16/10	CLP SOM01.2 BS
108-95-2	Phenol	220	U	ug/kg dry	220	11/03/10	11/11/10	CLP SOM01.2 B
129-00-0	Pyrene	300		ug/kg dry	220	11/03/10	11/11/10	CLP SOM01.2 B
Tentatively Identified Compounds:								
57-11-4	Octadecanoic acid	300	NJ, CLP15	ug/kg dry		11/03/10	11/11/10	CLP SOM01.2 B
1058-61-3	Stigmast-4-en-3-one	300	NJ, CLP15	ug/kg dry		11/03/10	11/11/10	CLP SOM01.2 B
R4-6501	Unidentified Compound(s)	2000	J, CLP15	ug/kg dry		11/03/10	11/11/10	CLP SOM01.2 B



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D.A.R.T. Id: 11-0019

Project: 11-0019, Tronox Inc - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 11-0019, Tronox Inc

Contract Lab Case: 40729

Sample ID: 13758ASFX

Lab ID: C104601-35

MD No:

Station ID: 13758

Matrix: Surface Soil

D No: 65A7 MITKEM

Date Collected: 10/26/10 10:35

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	21		%		11/03/10	11/11/10	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	220	U	ug/kg dry	220	11/03/10	11/11/10	CLP SOM01.2 B
92-52-4	1,1-Biphenyl	220	U	ug/kg dry	220	11/03/10	11/11/10	CLP SOM01.2 B
95-94-3	1,2,4,5-Tetrachlorobenzene	220	U	ug/kg dry	220	11/03/10	11/11/10	CLP SOM01.2 B
58-90-2	2,3,4,6-Tetrachlorophenol	220	U	ug/kg dry	220	11/03/10	11/11/10	CLP SOM01.2 B
95-95-4	2,4,5-Trichlorophenol	220	U	ug/kg dry	220	11/03/10	11/11/10	CLP SOM01.2 B
88-06-2	2,4,6-Trichlorophenol	220	U	ug/kg dry	220	11/03/10	11/11/10	CLP SOM01.2 B
120-83-2	2,4-Dichlorophenol	220	U	ug/kg dry	220	11/03/10	11/11/10	CLP SOM01.2 B
105-67-9	2,4-Dimethylphenol	220	U, J, QC-1	ug/kg dry	220	11/03/10	11/11/10	CLP SOM01.2 B
51-28-5	2,4-Dinitrophenol	420	U, J, CLP16, QC-1	ug/kg dry	420	11/03/10	11/11/10	CLP SOM01.2 B
121-14-2	2,4-Dinitrotoluene	220	U	ug/kg dry	220	11/03/10	11/11/10	CLP SOM01.2 B
606-20-2	2,6-Dinitrotoluene	220	U	ug/kg dry	220	11/03/10	11/11/10	CLP SOM01.2 B
91-58-7	2-Chloronaphthalene	220	U	ug/kg dry	220	11/03/10	11/11/10	CLP SOM01.2 B
95-57-8	2-Chlorophenol	220	U	ug/kg dry	220	11/03/10	11/11/10	CLP SOM01.2 B
534-52-1	2-Methyl-4,6-dinitrophenol	420	U	ug/kg dry	420	11/03/10	11/11/10	CLP SOM01.2 B
91-57-6	2-Methylnaphthalene	9.9		ug/kg dry	4.2	11/03/10	11/16/10	CLP SOM01.2 BS
95-48-7	2-Methylphenol	220	U	ug/kg dry	220	11/03/10	11/11/10	CLP SOM01.2 B
88-74-4	2-Nitroaniline	420	U	ug/kg dry	420	11/03/10	11/11/10	CLP SOM01.2 B
88-75-5	2-Nitrophenol	220	U	ug/kg dry	220	11/03/10	11/11/10	CLP SOM01.2 B
91-94-1	3,3'-Dichlorobenzidine	220	U, J, QS-4	ug/kg dry	220	11/03/10	11/11/10	CLP SOM01.2 B
99-09-2	3-Nitroaniline	420	U	ug/kg dry	420	11/03/10	11/11/10	CLP SOM01.2 B
101-55-3	4-Bromophenyl phenyl ether	220	U	ug/kg dry	220	11/03/10	11/11/10	CLP SOM01.2 B
59-50-7	4-Chloro-3-methylphenol	220	U	ug/kg dry	220	11/03/10	11/11/10	CLP SOM01.2 B
106-47-8	4-Chloroaniline	220	U, J, QS-4	ug/kg dry	220	11/03/10	11/11/10	CLP SOM01.2 B
7005-72-3	4-Chlorophenyl phenyl ether	220	U	ug/kg dry	220	11/03/10	11/11/10	CLP SOM01.2 B
100-01-6	4-Nitroaniline	420	U, J, QC-1	ug/kg dry	420	11/03/10	11/11/10	CLP SOM01.2 B
100-02-7	4-Nitrophenol	420	U	ug/kg dry	420	11/03/10	11/11/10	CLP SOM01.2 B
83-32-9	Acenaphthene	5.7		ug/kg dry	4.2	11/03/10	11/16/10	CLP SOM01.2 BS
208-96-8	Acenaphthylene	40		ug/kg dry	4.2	11/03/10	11/16/10	CLP SOM01.2 BS



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D.A.R.T. Id: 11-0019

Project: 11-0019, Tronox Inc - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 11-0019, Tronox Inc

Contract Lab Case: 40729

Sample ID: 13758ASFX

Lab ID: C104601-35

MD No:

Station ID: 13758

Matrix: Surface Soil

D No: 65A7 MITKEM

Date Collected: 10/26/10 10:35

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
98-86-2	Acetophenone	220	U	ug/kg dry	220	11/03/10	11/11/10	CLP SOM01.2 B
120-12-7	Anthracene	41		ug/kg dry	4.2	11/03/10	11/16/10	CLP SOM01.2 BS
1912-24-9	Atrazine	220	U	ug/kg dry	220	11/03/10	11/11/10	CLP SOM01.2 B
100-52-7	Benzaldehyde	220	U	ug/kg dry	220	11/03/10	11/11/10	CLP SOM01.2 B
56-55-3	Benzo(a)anthracene	230		ug/kg dry	42	11/03/10	11/16/10	CLP SOM01.2 BS
50-32-8	Benzo(a)pyrene	360		ug/kg dry	42	11/03/10	11/16/10	CLP SOM01.2 BS
205-99-2	Benzo(b)fluoranthene	210	J, CLP01	ug/kg dry	220	11/03/10	11/11/10	CLP SOM01.2 B
191-24-2	Benzo(g,h,i)perylene	260		ug/kg dry	42	11/03/10	11/16/10	CLP SOM01.2 BS
207-08-9	Benzo(k)fluoranthene	250		ug/kg dry	220	11/03/10	11/11/10	CLP SOM01.2 B
85-68-7	Benzyl butyl phthalate	220	U	ug/kg dry	220	11/03/10	11/11/10	CLP SOM01.2 B
111-91-1	Bis(2-chloroethoxy)methane	220	U	ug/kg dry	220	11/03/10	11/11/10	CLP SOM01.2 B
111-44-4	bis(2-Chloroethyl) Ether	220	U	ug/kg dry	220	11/03/10	11/11/10	CLP SOM01.2 B
39638-32-9	Bis(2-chloroisopropyl) ether	220	U	ug/kg dry	220	11/03/10	11/11/10	CLP SOM01.2 B
117-81-7	Bis(2-ethylhexyl) phthalate	230	J, QC-2	ug/kg dry	220	11/03/10	11/11/10	CLP SOM01.2 B
105-60-2	Caprolactam	220	U	ug/kg dry	220	11/03/10	11/11/10	CLP SOM01.2 B
86-74-8	Carbazole	220	U	ug/kg dry	220	11/03/10	11/11/10	CLP SOM01.2 B
218-01-9	Chrysene	270		ug/kg dry	42	11/03/10	11/16/10	CLP SOM01.2 BS
53-70-3	Dibenzo(a,h)anthracene	87		ug/kg dry	42	11/03/10	11/16/10	CLP SOM01.2 BS
132-64-9	Dibenzofuran	220	U	ug/kg dry	220	11/03/10	11/11/10	CLP SOM01.2 B
84-66-2	Diethyl phthalate	220	U	ug/kg dry	220	11/03/10	11/11/10	CLP SOM01.2 B
131-11-3	Dimethyl phthalate	220	U	ug/kg dry	220	11/03/10	11/11/10	CLP SOM01.2 B
84-74-2	Di-n-butylphthalate	220	U	ug/kg dry	220	11/03/10	11/11/10	CLP SOM01.2 B
117-84-0	Di-n-octylphthalate	220	U	ug/kg dry	220	11/03/10	11/11/10	CLP SOM01.2 B
206-44-0	Fluoranthene	300		ug/kg dry	220	11/03/10	11/11/10	CLP SOM01.2 B
86-73-7	Fluorene	9.3		ug/kg dry	4.2	11/03/10	11/16/10	CLP SOM01.2 BS
118-74-1	Hexachlorobenzene (HCB)	220	U	ug/kg dry	220	11/03/10	11/11/10	CLP SOM01.2 B
87-68-3	Hexachlorobutadiene	220	U	ug/kg dry	220	11/03/10	11/11/10	CLP SOM01.2 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	220	U, J, QS-4	ug/kg dry	220	11/03/10	11/11/10	CLP SOM01.2 B
67-72-1	Hexachloroethane	220	U	ug/kg dry	220	11/03/10	11/11/10	CLP SOM01.2 B
193-39-5	Indeno (1,2,3-cd) pyrene	250		ug/kg dry	42	11/03/10	11/16/10	CLP SOM01.2 BS
78-59-1	Isophorone	220	U	ug/kg dry	220	11/03/10	11/11/10	CLP SOM01.2 B



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
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D.A.R.T. Id: 11-0019
 Project: 11-0019, Tronox Inc - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 11-0019, Tronox Inc

Contract Lab Case: 40729

Sample ID: 13758ASFX

Lab ID: C104601-35

MD No:

Station ID: 13758

Matrix: Surface Soil

D No: 65A7 MITKEM

Date Collected: 10/26/10 10:35

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
91-20-3	Naphthalene	6.0		ug/kg dry	4.2	11/03/10	11/16/10	CLP SOM01.2 BS
98-95-3	Nitrobenzene	220	U	ug/kg dry	220	11/03/10	11/11/10	CLP SOM01.2 B
621-64-7	n-Nitroso di-n-Propylamine	220	U	ug/kg dry	220	11/03/10	11/11/10	CLP SOM01.2 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	220	U	ug/kg dry	220	11/03/10	11/11/10	CLP SOM01.2 B
87-86-5	Pentachlorophenol	8.5	J, CLP16, QC-1	ug/kg dry	8.5	11/03/10	11/16/10	CLP SOM01.2 BS
85-01-8	Phenanthrene	210		ug/kg dry	42	11/03/10	11/16/10	CLP SOM01.2 BS
108-95-2	Phenol	220	U	ug/kg dry	220	11/03/10	11/11/10	CLP SOM01.2 B
129-00-0	Pyrene	340		ug/kg dry	220	11/03/10	11/11/10	CLP SOM01.2 B
Tentatively Identified Compounds:								
124-18-5	Decane	200	NJ, CLP15	ug/kg dry		11/03/10	11/11/10	CLP SOM01.2 B
57-10-3	n-Hexadecanoic acid	300	NJ, CLP15	ug/kg dry		11/03/10	11/11/10	CLP SOM01.2 B
1002-84-2	Pentadecanoic acid	300	NJ, CLP15	ug/kg dry		11/03/10	11/11/10	CLP SOM01.2 B
R4-6500	Petroleum Product:		N, CLP15			11/03/10	11/11/10	CLP SOM01.2 B
R4-6501	Unidentified Compound(s)	3000	J, CLP15	ug/kg dry		11/03/10	11/11/10	CLP SOM01.2 B



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D.A.R.T. Id: 11-0019

Project: 11-0019, Tronox Inc - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 11-0019, Tronox Inc

Contract Lab Case: 40729

Sample ID: 13759ASF

Lab ID: C104601-36

MD No:

Station ID: 13759

Matrix: Surface Soil

D No: 65A8 MITKEM

Date Collected: 10/26/10 11:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	14		%		11/03/10	11/11/10	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	190	U	ug/kg dry	190	11/03/10	11/11/10	CLP SOM01.2 B
92-52-4	1,1-Biphenyl	190	U	ug/kg dry	190	11/03/10	11/11/10	CLP SOM01.2 B
95-94-3	1,2,4,5-Tetrachlorobenzene	190	U	ug/kg dry	190	11/03/10	11/11/10	CLP SOM01.2 B
58-90-2	2,3,4,6-Tetrachlorophenol	190	U	ug/kg dry	190	11/03/10	11/11/10	CLP SOM01.2 B
95-95-4	2,4,5-Trichlorophenol	190	U	ug/kg dry	190	11/03/10	11/11/10	CLP SOM01.2 B
88-06-2	2,4,6-Trichlorophenol	190	U	ug/kg dry	190	11/03/10	11/11/10	CLP SOM01.2 B
120-83-2	2,4-Dichlorophenol	190	U	ug/kg dry	190	11/03/10	11/11/10	CLP SOM01.2 B
105-67-9	2,4-Dimethylphenol	190	U, J, QC-1	ug/kg dry	190	11/03/10	11/11/10	CLP SOM01.2 B
51-28-5	2,4-Dinitrophenol	380	U, J, CLP16, QC-1	ug/kg dry	380	11/03/10	11/11/10	CLP SOM01.2 B
121-14-2	2,4-Dinitrotoluene	190	U	ug/kg dry	190	11/03/10	11/11/10	CLP SOM01.2 B
606-20-2	2,6-Dinitrotoluene	190	U	ug/kg dry	190	11/03/10	11/11/10	CLP SOM01.2 B
91-58-7	2-Chloronaphthalene	190	U	ug/kg dry	190	11/03/10	11/11/10	CLP SOM01.2 B
95-57-8	2-Chlorophenol	190	U	ug/kg dry	190	11/03/10	11/11/10	CLP SOM01.2 B
534-52-1	2-Methyl-4,6-dinitrophenol	380	U	ug/kg dry	380	11/03/10	11/11/10	CLP SOM01.2 B
91-57-6	2-Methylnaphthalene	3.8	U	ug/kg dry	3.8	11/03/10	11/17/10	CLP SOM01.2 BS
95-48-7	2-Methylphenol	190	U	ug/kg dry	190	11/03/10	11/11/10	CLP SOM01.2 B
88-74-4	2-Nitroaniline	380	U	ug/kg dry	380	11/03/10	11/11/10	CLP SOM01.2 B
88-75-5	2-Nitrophenol	190	U	ug/kg dry	190	11/03/10	11/11/10	CLP SOM01.2 B
91-94-1	3,3'-Dichlorobenzidine	190	U	ug/kg dry	190	11/03/10	11/11/10	CLP SOM01.2 B
99-09-2	3-Nitroaniline	380	U	ug/kg dry	380	11/03/10	11/11/10	CLP SOM01.2 B
101-55-3	4-Bromophenyl phenyl ether	190	U	ug/kg dry	190	11/03/10	11/11/10	CLP SOM01.2 B
59-50-7	4-Chloro-3-methylphenol	190	U	ug/kg dry	190	11/03/10	11/11/10	CLP SOM01.2 B
106-47-8	4-Chloroaniline	190	U	ug/kg dry	190	11/03/10	11/11/10	CLP SOM01.2 B
7005-72-3	4-Chlorophenyl phenyl ether	190	U	ug/kg dry	190	11/03/10	11/11/10	CLP SOM01.2 B
100-01-6	4-Nitroaniline	380	U, J, QC-1	ug/kg dry	380	11/03/10	11/11/10	CLP SOM01.2 B
100-02-7	4-Nitrophenol	380	U	ug/kg dry	380	11/03/10	11/11/10	CLP SOM01.2 B
83-32-9	Acenaphthene	4.1		ug/kg dry	3.8	11/03/10	11/17/10	CLP SOM01.2 BS
208-96-8	Acenaphthylene	34		ug/kg dry	3.8	11/03/10	11/17/10	CLP SOM01.2 BS



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D.A.R.T. Id: 11-0019

Project: 11-0019, Tronox Inc - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 11-0019, Tronox Inc

Contract Lab Case: 40729

Sample ID: 13759ASF

Lab ID: C104601-36

MD No:

Station ID: 13759

Matrix: Surface Soil

D No: 65A8 MITKEM

Date Collected: 10/26/10 11:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
98-86-2	Acetophenone	190	U	ug/kg dry	190	11/03/10	11/11/10	CLP SOM01.2 B
120-12-7	Anthracene	38	J, CLP02	ug/kg dry	3.8	11/03/10	11/17/10	CLP SOM01.2 BS
1912-24-9	Atrazine	190	U	ug/kg dry	190	11/03/10	11/11/10	CLP SOM01.2 B
100-52-7	Benzaldehyde	190	U	ug/kg dry	190	11/03/10	11/11/10	CLP SOM01.2 B
56-55-3	Benzo(a)anthracene	200		ug/kg dry	190	11/03/10	11/11/10	CLP SOM01.2 B
50-32-8	Benzo(a)pyrene	220		ug/kg dry	190	11/03/10	11/11/10	CLP SOM01.2 B
205-99-2	Benzo(b)fluoranthene	270		ug/kg dry	190	11/03/10	11/11/10	CLP SOM01.2 B
191-24-2	Benzo(g,h,i)perylene	250		ug/kg dry	38	11/03/10	11/17/10	CLP SOM01.2 BS
207-08-9	Benzo(k)fluoranthene	280		ug/kg dry	190	11/03/10	11/11/10	CLP SOM01.2 B
85-68-7	Benzyl butyl phthalate	190	U	ug/kg dry	190	11/03/10	11/11/10	CLP SOM01.2 B
111-91-1	Bis(2-chloroethoxy)methane	190	U	ug/kg dry	190	11/03/10	11/11/10	CLP SOM01.2 B
111-44-4	bis(2-Chloroethyl) Ether	190	U	ug/kg dry	190	11/03/10	11/11/10	CLP SOM01.2 B
39638-32-9	Bis(2-chloroisopropyl) ether	190	U	ug/kg dry	190	11/03/10	11/11/10	CLP SOM01.2 B
117-81-7	Bis(2-ethylhexyl) phthalate	270	J, QC-2	ug/kg dry	190	11/03/10	11/11/10	CLP SOM01.2 B
105-60-2	Caprolactam	190	U	ug/kg dry	190	11/03/10	11/11/10	CLP SOM01.2 B
86-74-8	Carbazole	190	U	ug/kg dry	190	11/03/10	11/11/10	CLP SOM01.2 B
218-01-9	Chrysene	270		ug/kg dry	190	11/03/10	11/11/10	CLP SOM01.2 B
53-70-3	Dibenzo(a,h)anthracene	85		ug/kg dry	38	11/03/10	11/17/10	CLP SOM01.2 BS
132-64-9	Dibenzofuran	190	U	ug/kg dry	190	11/03/10	11/11/10	CLP SOM01.2 B
84-66-2	Diethyl phthalate	190	U	ug/kg dry	190	11/03/10	11/11/10	CLP SOM01.2 B
131-11-3	Dimethyl phthalate	190	U	ug/kg dry	190	11/03/10	11/11/10	CLP SOM01.2 B
84-74-2	Di-n-butylphthalate	190	U	ug/kg dry	190	11/03/10	11/11/10	CLP SOM01.2 B
117-84-0	Di-n-octylphthalate	190	U	ug/kg dry	190	11/03/10	11/11/10	CLP SOM01.2 B
206-44-0	Fluoranthene	310		ug/kg dry	190	11/03/10	11/11/10	CLP SOM01.2 B
86-73-7	Fluorene	6.5		ug/kg dry	3.8	11/03/10	11/17/10	CLP SOM01.2 BS
118-74-1	Hexachlorobenzene (HCB)	190	U	ug/kg dry	190	11/03/10	11/11/10	CLP SOM01.2 B
87-68-3	Hexachlorobutadiene	190	U	ug/kg dry	190	11/03/10	11/11/10	CLP SOM01.2 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	190	U	ug/kg dry	190	11/03/10	11/11/10	CLP SOM01.2 B
67-72-1	Hexachloroethane	190	U	ug/kg dry	190	11/03/10	11/11/10	CLP SOM01.2 B
193-39-5	Indeno (1,2,3-cd) pyrene	230		ug/kg dry	38	11/03/10	11/17/10	CLP SOM01.2 BS
78-59-1	Isophorone	190	U	ug/kg dry	190	11/03/10	11/11/10	CLP SOM01.2 B



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 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0019
 Project: 11-0019, Tronox Inc - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 11-0019, Tronox Inc

Contract Lab Case: 40729

Sample ID: 13759ASF

Lab ID: C104601-36

MD No:

Station ID: 13759

Matrix: Surface Soil

D No: 65A8 MITKEM

Date Collected: 10/26/10 11:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
91-20-3	Naphthalene	3.8	U	ug/kg dry	3.8	11/03/10	11/17/10	CLP SOM01.2 BS
98-95-3	Nitrobenzene	190	U	ug/kg dry	190	11/03/10	11/11/10	CLP SOM01.2 B
621-64-7	n-Nitroso di-n-Propylamine	190	U	ug/kg dry	190	11/03/10	11/11/10	CLP SOM01.2 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	190	U	ug/kg dry	190	11/03/10	11/11/10	CLP SOM01.2 B
87-86-5	Pentachlorophenol	5.9	J, CLP01, CLP16, QC-1	ug/kg dry	7.7	11/03/10	11/17/10	CLP SOM01.2 BS
85-01-8	Phenanthrene	140		ug/kg dry	38	11/03/10	11/17/10	CLP SOM01.2 BS
108-95-2	Phenol	190	U	ug/kg dry	190	11/03/10	11/11/10	CLP SOM01.2 B
129-00-0	Pyrene	420		ug/kg dry	190	11/03/10	11/11/10	CLP SOM01.2 B
Tentatively Identified Compounds:								
57-10-3	n-Hexadecanoic acid	200	NJ, CLP15	ug/kg dry		11/03/10	11/11/10	CLP SOM01.2 B
R4-6500	Petroleum Product:		N, CLP15			11/03/10	11/11/10	CLP SOM01.2 B
544-63-8	Tetradecanoic Acid	300	NJ, CLP15	ug/kg dry		11/03/10	11/11/10	CLP SOM01.2 B
R4-6501	Unidentified Compound(s)	1000	J, CLP15	ug/kg dry		11/03/10	11/11/10	CLP SOM01.2 B



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D.A.R.T. Id: 11-0019
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Semi Volatile Organics

Project: 11-0019, Tronox Inc

Contract Lab Case: 40729

Sample ID: 13761ASF

Lab ID: C104601-37

MD No:

Station ID: 13761

Matrix: Surface Soil

D No: 65B0 MITKEM

Date Collected: 10/26/10 11:25

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	16		%		11/03/10	11/11/10	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	200	U	ug/kg dry	200	11/03/10	11/11/10	CLP SOM01.2 B
92-52-4	1,1-Biphenyl	200	U	ug/kg dry	200	11/03/10	11/11/10	CLP SOM01.2 B
95-94-3	1,2,4,5-Tetrachlorobenzene	200	U	ug/kg dry	200	11/03/10	11/11/10	CLP SOM01.2 B
58-90-2	2,3,4,6-Tetrachlorophenol	200	U	ug/kg dry	200	11/03/10	11/11/10	CLP SOM01.2 B
95-95-4	2,4,5-Trichlorophenol	200	U	ug/kg dry	200	11/03/10	11/11/10	CLP SOM01.2 B
88-06-2	2,4,6-Trichlorophenol	200	U	ug/kg dry	200	11/03/10	11/11/10	CLP SOM01.2 B
120-83-2	2,4-Dichlorophenol	200	U	ug/kg dry	200	11/03/10	11/11/10	CLP SOM01.2 B
105-67-9	2,4-Dimethylphenol	200	U, J, QC-1	ug/kg dry	200	11/03/10	11/11/10	CLP SOM01.2 B
51-28-5	2,4-Dinitrophenol	390	U, J, CLP16, QC-1	ug/kg dry	390	11/03/10	11/11/10	CLP SOM01.2 B
121-14-2	2,4-Dinitrotoluene	200	U	ug/kg dry	200	11/03/10	11/11/10	CLP SOM01.2 B
606-20-2	2,6-Dinitrotoluene	200	U	ug/kg dry	200	11/03/10	11/11/10	CLP SOM01.2 B
91-58-7	2-Chloronaphthalene	200	U	ug/kg dry	200	11/03/10	11/11/10	CLP SOM01.2 B
95-57-8	2-Chlorophenol	200	U	ug/kg dry	200	11/03/10	11/11/10	CLP SOM01.2 B
534-52-1	2-Methyl-4,6-dinitrophenol	390	U	ug/kg dry	390	11/03/10	11/11/10	CLP SOM01.2 B
91-57-6	2-Methylnaphthalene	3.9	U	ug/kg dry	3.9	11/03/10	11/16/10	CLP SOM01.2 BS
95-48-7	2-Methylphenol	200	U	ug/kg dry	200	11/03/10	11/11/10	CLP SOM01.2 B
88-74-4	2-Nitroaniline	390	U	ug/kg dry	390	11/03/10	11/11/10	CLP SOM01.2 B
88-75-5	2-Nitrophenol	200	U	ug/kg dry	200	11/03/10	11/11/10	CLP SOM01.2 B
91-94-1	3,3'-Dichlorobenzidine	200	U	ug/kg dry	200	11/03/10	11/11/10	CLP SOM01.2 B
99-09-2	3-Nitroaniline	390	U	ug/kg dry	390	11/03/10	11/11/10	CLP SOM01.2 B
101-55-3	4-Bromophenyl phenyl ether	200	U	ug/kg dry	200	11/03/10	11/11/10	CLP SOM01.2 B
59-50-7	4-Chloro-3-methylphenol	200	U	ug/kg dry	200	11/03/10	11/11/10	CLP SOM01.2 B
106-47-8	4-Chloroaniline	200	U	ug/kg dry	200	11/03/10	11/11/10	CLP SOM01.2 B
7005-72-3	4-Chlorophenyl phenyl ether	200	U	ug/kg dry	200	11/03/10	11/11/10	CLP SOM01.2 B
100-01-6	4-Nitroaniline	390	U, J, QC-1	ug/kg dry	390	11/03/10	11/11/10	CLP SOM01.2 B
100-02-7	4-Nitrophenol	390	U	ug/kg dry	390	11/03/10	11/11/10	CLP SOM01.2 B
83-32-9	Acenaphthene	8.7	J, QI-1	ug/kg dry	3.9	11/03/10	11/16/10	CLP SOM01.2 BS
208-96-8	Acenaphthylene	83		ug/kg dry	39	11/03/10	11/16/10	CLP SOM01.2 BS



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D.A.R.T. Id: 11-0019

Project: 11-0019, Tronox Inc - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 11-0019, Tronox Inc

Contract Lab Case: 40729

Sample ID: 13761ASF

Lab ID: C104601-37

MD No:

Station ID: 13761

Matrix: Surface Soil

D No: 65B0 MITKEM

Date Collected: 10/26/10 11:25

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
98-86-2	Acetophenone	200	U	ug/kg dry	200	11/03/10	11/11/10	CLP SOM01.2 B
120-12-7	Anthracene	94		ug/kg dry	39	11/03/10	11/16/10	CLP SOM01.2 BS
1912-24-9	Atrazine	200	U	ug/kg dry	200	11/03/10	11/11/10	CLP SOM01.2 B
100-52-7	Benzaldehyde	200	U	ug/kg dry	200	11/03/10	11/11/10	CLP SOM01.2 B
56-55-3	Benzo(a)anthracene	290		ug/kg dry	200	11/03/10	11/11/10	CLP SOM01.2 B
50-32-8	Benzo(a)pyrene	420		ug/kg dry	200	11/03/10	11/11/10	CLP SOM01.2 B
205-99-2	Benzo(b)fluoranthene	380		ug/kg dry	200	11/03/10	11/11/10	CLP SOM01.2 B
191-24-2	Benzo(g,h,i)perylene	260		ug/kg dry	200	11/03/10	11/11/10	CLP SOM01.2 B
207-08-9	Benzo(k)fluoranthene	630		ug/kg dry	200	11/03/10	11/11/10	CLP SOM01.2 B
85-68-7	Benzyl butyl phthalate	200	U	ug/kg dry	200	11/03/10	11/11/10	CLP SOM01.2 B
111-91-1	Bis(2-chloroethoxy)methane	200	U	ug/kg dry	200	11/03/10	11/11/10	CLP SOM01.2 B
111-44-4	bis(2-Chloroethyl) Ether	200	U	ug/kg dry	200	11/03/10	11/11/10	CLP SOM01.2 B
39638-32-9	Bis(2-chloroisopropyl) ether	200	U	ug/kg dry	200	11/03/10	11/11/10	CLP SOM01.2 B
117-81-7	Bis(2-ethylhexyl) phthalate	200	U	ug/kg dry	200	11/03/10	11/11/10	CLP SOM01.2 B
105-60-2	Caprolactam	200	U	ug/kg dry	200	11/03/10	11/11/10	CLP SOM01.2 B
86-74-8	Carbazole	200	U	ug/kg dry	200	11/03/10	11/11/10	CLP SOM01.2 B
218-01-9	Chrysene	530		ug/kg dry	200	11/03/10	11/11/10	CLP SOM01.2 B
53-70-3	Dibenzo(a,h)anthracene	200		ug/kg dry	39	11/03/10	11/16/10	CLP SOM01.2 BS
132-64-9	Dibenzofuran	200	U	ug/kg dry	200	11/03/10	11/11/10	CLP SOM01.2 B
84-66-2	Diethyl phthalate	200	U	ug/kg dry	200	11/03/10	11/11/10	CLP SOM01.2 B
131-11-3	Dimethyl phthalate	200	U	ug/kg dry	200	11/03/10	11/11/10	CLP SOM01.2 B
84-74-2	Di-n-butylphthalate	200	U	ug/kg dry	200	11/03/10	11/11/10	CLP SOM01.2 B
117-84-0	Di-n-octylphthalate	200	U	ug/kg dry	200	11/03/10	11/11/10	CLP SOM01.2 B
206-44-0	Fluoranthene	500		ug/kg dry	200	11/03/10	11/11/10	CLP SOM01.2 B
86-73-7	Fluorene	15	J, QI-1	ug/kg dry	3.9	11/03/10	11/16/10	CLP SOM01.2 BS
118-74-1	Hexachlorobenzene (HCB)	200	U	ug/kg dry	200	11/03/10	11/11/10	CLP SOM01.2 B
87-68-3	Hexachlorobutadiene	200	U	ug/kg dry	200	11/03/10	11/11/10	CLP SOM01.2 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	200	U	ug/kg dry	200	11/03/10	11/11/10	CLP SOM01.2 B
67-72-1	Hexachloroethane	200	U	ug/kg dry	200	11/03/10	11/11/10	CLP SOM01.2 B
193-39-5	Indeno (1,2,3-cd) pyrene	250		ug/kg dry	200	11/03/10	11/11/10	CLP SOM01.2 B
78-59-1	Isophorone	200	U	ug/kg dry	200	11/03/10	11/11/10	CLP SOM01.2 B



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0019

Project: 11-0019, Tronox Inc - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 11-0019, Tronox Inc

Contract Lab Case: 40729

Sample ID: 13761ASF

Lab ID: C104601-37

MD No:

Station ID: 13761

Matrix: Surface Soil

D No: 65B0 MITKEM

Date Collected: 10/26/10 11:25

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
91-20-3	Naphthalene	3.9	U	ug/kg dry	3.9	11/03/10	11/16/10	CLP SOM01.2 BS
98-95-3	Nitrobenzene	200	U	ug/kg dry	200	11/03/10	11/11/10	CLP SOM01.2 B
621-64-7	n-Nitroso di-n-Propylamine	200	U	ug/kg dry	200	11/03/10	11/11/10	CLP SOM01.2 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	200	U	ug/kg dry	200	11/03/10	11/11/10	CLP SOM01.2 B
87-86-5	Pentachlorophenol	29	J, CLP16, QC-1	ug/kg dry	7.9	11/03/10	11/16/10	CLP SOM01.2 BS
85-01-8	Phenanthrene	260		ug/kg dry	200	11/03/10	11/11/10	CLP SOM01.2 B
108-95-2	Phenol	200	U	ug/kg dry	200	11/03/10	11/11/10	CLP SOM01.2 B
129-00-0	Pyrene	830		ug/kg dry	200	11/03/10	11/11/10	CLP SOM01.2 B
Tentatively Identified Compounds:								
R4-6500	Petroleum Product:		N, CLP15			11/03/10	11/11/10	CLP SOM01.2 B
R4-6501	Unidentified Compound(s)	3000	J, CLP15	ug/kg dry		11/03/10	11/11/10	CLP SOM01.2 B



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D.A.R.T. Id: 11-0019

Project: 11-0019, Tronox Inc - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 11-0019, Tronox Inc

Contract Lab Case: 40729

Sample ID: 13762ASF

Lab ID: C104601-38

MD No:

Station ID: 13762

Matrix: Surface Soil

D No: 66F7 MITKEM

Date Collected: 10/26/10 13:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
1319-77-3	(3-and/or 4-)Methylphenol	200	U	ug/kg dry	200	11/04/10	11/16/10	CLP SOM01.2 B
92-52-4	1,1-Biphenyl	200	U	ug/kg dry	200	11/04/10	11/16/10	CLP SOM01.2 B
95-94-3	1,2,4,5-Tetrachlorobenzene	200	U	ug/kg dry	200	11/04/10	11/16/10	CLP SOM01.2 B
58-90-2	2,3,4,6-Tetrachlorophenol	200	U	ug/kg dry	200	11/04/10	11/16/10	CLP SOM01.2 B
95-95-4	2,4,5-Trichlorophenol	200	U	ug/kg dry	200	11/04/10	11/16/10	CLP SOM01.2 B
88-06-2	2,4,6-Trichlorophenol	200	U	ug/kg dry	200	11/04/10	11/16/10	CLP SOM01.2 B
120-83-2	2,4-Dichlorophenol	200	U	ug/kg dry	200	11/04/10	11/16/10	CLP SOM01.2 B
105-67-9	2,4-Dimethylphenol	200	U, J, CLP16	ug/kg dry	200	11/04/10	11/16/10	CLP SOM01.2 B
51-28-5	2,4-Dinitrophenol	390	U, J, CLP16, QC-1	ug/kg dry	390	11/04/10	11/16/10	CLP SOM01.2 B
121-14-2	2,4-Dinitrotoluene	200	U	ug/kg dry	200	11/04/10	11/16/10	CLP SOM01.2 B
606-20-2	2,6-Dinitrotoluene	200	U	ug/kg dry	200	11/04/10	11/16/10	CLP SOM01.2 B
91-58-7	2-Chloronaphthalene	200	U	ug/kg dry	200	11/04/10	11/16/10	CLP SOM01.2 B
95-57-8	2-Chlorophenol	200	U	ug/kg dry	200	11/04/10	11/16/10	CLP SOM01.2 B
534-52-1	2-Methyl-4,6-dinitrophenol	390	U, J, CLP16, QC-1	ug/kg dry	390	11/04/10	11/16/10	CLP SOM01.2 B
91-57-6	2-Methylnaphthalene	13	J, QI-1	ug/kg dry	3.9	11/04/10	11/16/10	CLP SOM01.2 BS
95-48-7	2-Methylphenol	200	U	ug/kg dry	200	11/04/10	11/16/10	CLP SOM01.2 B
88-74-4	2-Nitroaniline	390	U	ug/kg dry	390	11/04/10	11/16/10	CLP SOM01.2 B
88-75-5	2-Nitrophenol	200	U	ug/kg dry	200	11/04/10	11/16/10	CLP SOM01.2 B
91-94-1	3,3'-Dichlorobenzidine	200	U	ug/kg dry	200	11/04/10	11/16/10	CLP SOM01.2 B
99-09-2	3-Nitroaniline	390	U	ug/kg dry	390	11/04/10	11/16/10	CLP SOM01.2 B
101-55-3	4-Bromophenyl phenyl ether	200	U	ug/kg dry	200	11/04/10	11/16/10	CLP SOM01.2 B
59-50-7	4-Chloro-3-methylphenol	200	U	ug/kg dry	200	11/04/10	11/16/10	CLP SOM01.2 B
106-47-8	4-Chloroaniline	200	U	ug/kg dry	200	11/04/10	11/16/10	CLP SOM01.2 B
7005-72-3	4-Chlorophenyl phenyl ether	200	U	ug/kg dry	200	11/04/10	11/16/10	CLP SOM01.2 B
100-01-6	4-Nitroaniline	390	U	ug/kg dry	390	11/04/10	11/16/10	CLP SOM01.2 B
100-02-7	4-Nitrophenol	390	U	ug/kg dry	390	11/04/10	11/16/10	CLP SOM01.2 B
83-32-9	Acenaphthene	36	J, QI-1	ug/kg dry	3.9	11/04/10	11/16/10	CLP SOM01.2 BS
208-96-8	Acenaphthylene	130	J, CLP01	ug/kg dry	200	11/04/10	11/16/10	CLP SOM01.2 B
98-86-2	Acetophenone	200	U	ug/kg dry	200	11/04/10	11/16/10	CLP SOM01.2 B



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D.A.R.T. Id: 11-0019

Project: 11-0019, Tronox Inc - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 11-0019, Tronox Inc

Contract Lab Case: 40729

Sample ID: 13762ASF

Lab ID: C104601-38

MD No:

Station ID: 13762

Matrix: Surface Soil

D No: 66F7 MITKEM

Date Collected: 10/26/10 13:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
120-12-7	Anthracene	160	J, CLP01	ug/kg dry	200	11/04/10	11/16/10	CLP SOM01.2 B
1912-24-9	Atrazine	200	U	ug/kg dry	200	11/04/10	11/16/10	CLP SOM01.2 B
100-52-7	Benzaldehyde	200	U, J, CLP16	ug/kg dry	200	11/04/10	11/16/10	CLP SOM01.2 B
56-55-3	Benzo(a)anthracene	1000	J, QS-5	ug/kg dry	200	11/04/10	11/16/10	CLP SOM01.2 B
50-32-8	Benzo(a)pyrene	990		ug/kg dry	200	11/04/10	11/16/10	CLP SOM01.2 B
205-99-2	Benzo(b)fluoranthene	1600	J, QC-2	ug/kg dry	200	11/04/10	11/16/10	CLP SOM01.2 B
191-24-2	Benzo(g,h,i)perylene	630		ug/kg dry	200	11/04/10	11/16/10	CLP SOM01.2 B
207-08-9	Benzo(k)fluoranthene	930		ug/kg dry	200	11/04/10	11/16/10	CLP SOM01.2 B
85-68-7	Benzyl butyl phthalate	200	U	ug/kg dry	200	11/04/10	11/16/10	CLP SOM01.2 B
111-91-1	Bis(2-chloroethoxy)methane	200	U	ug/kg dry	200	11/04/10	11/16/10	CLP SOM01.2 B
111-44-4	bis(2-Chloroethyl) Ether	200	U	ug/kg dry	200	11/04/10	11/16/10	CLP SOM01.2 B
39638-32-9	Bis(2-chloroisopropyl) ether	200	U	ug/kg dry	200	11/04/10	11/16/10	CLP SOM01.2 B
117-81-7	Bis(2-ethylhexyl) phthalate	650	J, QC-2	ug/kg dry	200	11/04/10	11/16/10	CLP SOM01.2 B
105-60-2	Caprolactam	200	U	ug/kg dry	200	11/04/10	11/16/10	CLP SOM01.2 B
86-74-8	Carbazole	140	J, CLP01	ug/kg dry	200	11/04/10	11/16/10	CLP SOM01.2 B
218-01-9	Chrysene	1400	J, QS-5	ug/kg dry	200	11/04/10	11/16/10	CLP SOM01.2 B
53-70-3	Dibenzo(a,h)anthracene	200	J, CLP01	ug/kg dry	200	11/04/10	11/16/10	CLP SOM01.2 B
132-64-9	Dibenzofuran	200	U	ug/kg dry	200	11/04/10	11/16/10	CLP SOM01.2 B
84-66-2	Diethyl phthalate	200	U	ug/kg dry	200	11/04/10	11/16/10	CLP SOM01.2 B
131-11-3	Dimethyl phthalate	200	U	ug/kg dry	200	11/04/10	11/16/10	CLP SOM01.2 B
84-74-2	Di-n-butylphthalate	200	U	ug/kg dry	200	11/04/10	11/16/10	CLP SOM01.2 B
117-84-0	Di-n-octylphthalate	200	U	ug/kg dry	200	11/04/10	11/16/10	CLP SOM01.2 B
206-44-0	Fluoranthene	2000	J, QS-5	ug/kg dry	200	11/04/10	11/16/10	CLP SOM01.2 B
86-73-7	Fluorene	64	J, CLP01	ug/kg dry	200	11/04/10	11/16/10	CLP SOM01.2 B
118-74-1	Hexachlorobenzene (HCB)	200	U	ug/kg dry	200	11/04/10	11/16/10	CLP SOM01.2 B
87-68-3	Hexachlorobutadiene	200	U	ug/kg dry	200	11/04/10	11/16/10	CLP SOM01.2 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	200	U, J, QC-1	ug/kg dry	200	11/04/10	11/16/10	CLP SOM01.2 B
67-72-1	Hexachloroethane	200	U	ug/kg dry	200	11/04/10	11/16/10	CLP SOM01.2 B
193-39-5	Indeno (1,2,3-cd) pyrene	590		ug/kg dry	200	11/04/10	11/16/10	CLP SOM01.2 B
78-59-1	Isophorone	200	U	ug/kg dry	200	11/04/10	11/16/10	CLP SOM01.2 B
91-20-3	Naphthalene	12	J, QI-1	ug/kg dry	3.9	11/04/10	11/16/10	CLP SOM01.2 BS



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
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 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0019
 Project: 11-0019, Tronox Inc - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 11-0019, Tronox Inc

Contract Lab Case: 40729

Sample ID: 13762ASF

Lab ID: C104601-38

MD No:

Station ID: 13762

Matrix: Surface Soil

D No: 66F7 MITKEM

Date Collected: 10/26/10 13:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
98-95-3	Nitrobenzene	200	U	ug/kg dry	200	11/04/10	11/16/10	CLP SOM01.2 B
621-64-7	n-Nitroso di-n-Propylamine	200	U	ug/kg dry	200	11/04/10	11/16/10	CLP SOM01.2 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	200	U	ug/kg dry	200	11/04/10	11/16/10	CLP SOM01.2 B
87-86-5	Pentachlorophenol	34	J, CLP16, QC-2, QI-1	ug/kg dry	7.9	11/04/10	11/16/10	CLP SOM01.2 BS
85-01-8	Phenanthrene	950		ug/kg dry	200	11/04/10	11/16/10	CLP SOM01.2 B
108-95-2	Phenol	200	U	ug/kg dry	200	11/04/10	11/16/10	CLP SOM01.2 B
129-00-0	Pyrene	2600	J, QC-2, QS-5	ug/kg dry	200	11/04/10	11/16/10	CLP SOM01.2 B
Tentatively Identified Compounds:								
192-97-2	Benzo[e]pyrene	900	NJ, CLP15	ug/kg dry		11/04/10	11/16/10	CLP SOM01.2 B
5737-13-3	Cyclopenta(def)phenanthrenone	300	NJ, CLP15	ug/kg dry		11/04/10	11/16/10	CLP SOM01.2 B
2156-97-0	Dodecyl acrylate	2000	NJ, CLP15	ug/kg dry		11/04/10	11/16/10	CLP SOM01.2 B
R4-6500	Petroleum Product:		N, CLP15			11/04/10	11/16/10	CLP SOM01.2 B
2531-84-2	Phenanthrene, 2-methyl-	500	NJ, CLP15	ug/kg dry		11/04/10	11/16/10	CLP SOM01.2 B
620-92-8	Phenol, 4,4'-methylenebis-	300	NJ, CLP15	ug/kg dry		11/04/10	11/16/10	CLP SOM01.2 B
58-22-0	Testosterone	600	NJ, CLP15	ug/kg dry		11/04/10	11/16/10	CLP SOM01.2 B
R4-6501	Unidentified Compound(s)	5000	J, CLP15	ug/kg dry		11/04/10	11/16/10	CLP SOM01.2 B



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D.A.R.T. Id: 11-0019

Project: 11-0019, Tronox Inc - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 11-0019, Tronox Inc

Contract Lab Case: 40729

Sample ID: 13766ASF

Lab ID: C104601-39

MD No:

Station ID: 13766

Matrix: Surface Soil

D No: 66F8 MITKEM

Date Collected: 10/26/10 13:20

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	12		%		11/04/10	11/09/10	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	190	U	ug/kg dry	190	11/04/10	11/09/10	CLP SOM01.2 B
92-52-4	1,1-Biphenyl	190	U	ug/kg dry	190	11/04/10	11/09/10	CLP SOM01.2 B
95-94-3	1,2,4,5-Tetrachlorobenzene	190	U	ug/kg dry	190	11/04/10	11/09/10	CLP SOM01.2 B
58-90-2	2,3,4,6-Tetrachlorophenol	190	U	ug/kg dry	190	11/04/10	11/09/10	CLP SOM01.2 B
95-95-4	2,4,5-Trichlorophenol	190	U	ug/kg dry	190	11/04/10	11/09/10	CLP SOM01.2 B
88-06-2	2,4,6-Trichlorophenol	190	U	ug/kg dry	190	11/04/10	11/09/10	CLP SOM01.2 B
120-83-2	2,4-Dichlorophenol	190	U	ug/kg dry	190	11/04/10	11/09/10	CLP SOM01.2 B
105-67-9	2,4-Dimethylphenol	190	U, J, QC-1	ug/kg dry	190	11/04/10	11/09/10	CLP SOM01.2 B
51-28-5	2,4-Dinitrophenol	370	U, J, CLP16, QC-1	ug/kg dry	370	11/04/10	11/09/10	CLP SOM01.2 B
121-14-2	2,4-Dinitrotoluene	190	U	ug/kg dry	190	11/04/10	11/09/10	CLP SOM01.2 B
606-20-2	2,6-Dinitrotoluene	190	U	ug/kg dry	190	11/04/10	11/09/10	CLP SOM01.2 B
91-58-7	2-Chloronaphthalene	190	U	ug/kg dry	190	11/04/10	11/09/10	CLP SOM01.2 B
95-57-8	2-Chlorophenol	190	U	ug/kg dry	190	11/04/10	11/09/10	CLP SOM01.2 B
534-52-1	2-Methyl-4,6-dinitrophenol	370	U, J, QC-1	ug/kg dry	370	11/04/10	11/09/10	CLP SOM01.2 B
91-57-6	2-Methylnaphthalene	5.4		ug/kg dry	3.7	11/04/10	11/15/10	CLP SOM01.2 BS
95-48-7	2-Methylphenol	190	U	ug/kg dry	190	11/04/10	11/09/10	CLP SOM01.2 B
88-74-4	2-Nitroaniline	370	U	ug/kg dry	370	11/04/10	11/09/10	CLP SOM01.2 B
88-75-5	2-Nitrophenol	190	U	ug/kg dry	190	11/04/10	11/09/10	CLP SOM01.2 B
91-94-1	3,3'-Dichlorobenzidine	190	U	ug/kg dry	190	11/04/10	11/09/10	CLP SOM01.2 B
99-09-2	3-Nitroaniline	370	U	ug/kg dry	370	11/04/10	11/09/10	CLP SOM01.2 B
101-55-3	4-Bromophenyl phenyl ether	190	U	ug/kg dry	190	11/04/10	11/09/10	CLP SOM01.2 B
59-50-7	4-Chloro-3-methylphenol	190	U	ug/kg dry	190	11/04/10	11/09/10	CLP SOM01.2 B
106-47-8	4-Chloroaniline	190	U	ug/kg dry	190	11/04/10	11/09/10	CLP SOM01.2 B
7005-72-3	4-Chlorophenyl phenyl ether	190	U	ug/kg dry	190	11/04/10	11/09/10	CLP SOM01.2 B
100-01-6	4-Nitroaniline	370	U	ug/kg dry	370	11/04/10	11/09/10	CLP SOM01.2 B
100-02-7	4-Nitrophenol	370	U	ug/kg dry	370	11/04/10	11/09/10	CLP SOM01.2 B
83-32-9	Acenaphthene	3.7	U	ug/kg dry	3.7	11/04/10	11/15/10	CLP SOM01.2 BS
208-96-8	Acenaphthylene	8.7		ug/kg dry	3.7	11/04/10	11/15/10	CLP SOM01.2 BS



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D.A.R.T. Id: 11-0019

Project: 11-0019, Tronox Inc - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 11-0019, Tronox Inc

Contract Lab Case: 40729

Sample ID: 13766ASF

Lab ID: C104601-39

MD No:

Station ID: 13766

Matrix: Surface Soil

D No: 66F8 MITKEM

Date Collected: 10/26/10 13:20

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
98-86-2	Acetophenone	190	U	ug/kg dry	190	11/04/10	11/09/10	CLP SOM01.2 B
120-12-7	Anthracene	11		ug/kg dry	3.7	11/04/10	11/15/10	CLP SOM01.2 BS
1912-24-9	Atrazine	190	U	ug/kg dry	190	11/04/10	11/09/10	CLP SOM01.2 B
100-52-7	Benzaldehyde	190	U	ug/kg dry	190	11/04/10	11/09/10	CLP SOM01.2 B
56-55-3	Benzo(a)anthracene	63		ug/kg dry	37	11/04/10	11/15/10	CLP SOM01.2 BS
50-32-8	Benzo(a)pyrene	110		ug/kg dry	37	11/04/10	11/15/10	CLP SOM01.2 BS
205-99-2	Benzo(b)fluoranthene	160		ug/kg dry	37	11/04/10	11/15/10	CLP SOM01.2 BS
191-24-2	Benzo(g,h,i)perylene	89		ug/kg dry	37	11/04/10	11/15/10	CLP SOM01.2 BS
207-08-9	Benzo(k)fluoranthene	81		ug/kg dry	37	11/04/10	11/15/10	CLP SOM01.2 BS
85-68-7	Benzyl butyl phthalate	190	U	ug/kg dry	190	11/04/10	11/09/10	CLP SOM01.2 B
111-91-1	Bis(2-chloroethoxy)methane	190	U	ug/kg dry	190	11/04/10	11/09/10	CLP SOM01.2 B
111-44-4	bis(2-Chloroethyl) Ether	190	U	ug/kg dry	190	11/04/10	11/09/10	CLP SOM01.2 B
39638-32-9	Bis(2-chloroisopropyl) ether	190	U	ug/kg dry	190	11/04/10	11/09/10	CLP SOM01.2 B
117-81-7	Bis(2-ethylhexyl) phthalate	310		ug/kg dry	190	11/04/10	11/09/10	CLP SOM01.2 B
105-60-2	Caprolactam	190	U	ug/kg dry	190	11/04/10	11/09/10	CLP SOM01.2 B
86-74-8	Carbazole	190	U	ug/kg dry	190	11/04/10	11/09/10	CLP SOM01.2 B
218-01-9	Chrysene	84		ug/kg dry	37	11/04/10	11/15/10	CLP SOM01.2 BS
53-70-3	Dibenzo(a,h)anthracene	23		ug/kg dry	3.7	11/04/10	11/15/10	CLP SOM01.2 BS
132-64-9	Dibenzofuran	190	U	ug/kg dry	190	11/04/10	11/09/10	CLP SOM01.2 B
84-66-2	Diethyl phthalate	190	U	ug/kg dry	190	11/04/10	11/09/10	CLP SOM01.2 B
131-11-3	Dimethyl phthalate	190	U	ug/kg dry	190	11/04/10	11/09/10	CLP SOM01.2 B
84-74-2	Di-n-butylphthalate	190	U	ug/kg dry	190	11/04/10	11/09/10	CLP SOM01.2 B
117-84-0	Di-n-octylphthalate	190	U	ug/kg dry	190	11/04/10	11/09/10	CLP SOM01.2 B
206-44-0	Fluoranthene	140		ug/kg dry	37	11/04/10	11/15/10	CLP SOM01.2 BS
86-73-7	Fluorene	3.7	U	ug/kg dry	3.7	11/04/10	11/15/10	CLP SOM01.2 BS
118-74-1	Hexachlorobenzene (HCB)	190	U	ug/kg dry	190	11/04/10	11/09/10	CLP SOM01.2 B
87-68-3	Hexachlorobutadiene	190	U	ug/kg dry	190	11/04/10	11/09/10	CLP SOM01.2 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	190	U	ug/kg dry	190	11/04/10	11/09/10	CLP SOM01.2 B
67-72-1	Hexachloroethane	190	U	ug/kg dry	190	11/04/10	11/09/10	CLP SOM01.2 B
193-39-5	Indeno (1,2,3-cd) pyrene	78		ug/kg dry	37	11/04/10	11/15/10	CLP SOM01.2 BS
78-59-1	Isophorone	190	U	ug/kg dry	190	11/04/10	11/09/10	CLP SOM01.2 B



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0019

Project: 11-0019, Tronox Inc - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 11-0019, Tronox Inc

Contract Lab Case: 40729

Sample ID: 13766ASF

Lab ID: C104601-39

MD No:

Station ID: 13766

Matrix: Surface Soil

D No: 66F8 MITKEM

Date Collected: 10/26/10 13:20

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
91-20-3	Naphthalene	3.7	U	ug/kg dry	3.7	11/04/10	11/15/10	CLP SOM01.2 BS
98-95-3	Nitrobenzene	190	U	ug/kg dry	190	11/04/10	11/09/10	CLP SOM01.2 B
621-64-7	n-Nitroso di-n-Propylamine	190	U	ug/kg dry	190	11/04/10	11/09/10	CLP SOM01.2 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	190	U	ug/kg dry	190	11/04/10	11/09/10	CLP SOM01.2 B
87-86-5	Pentachlorophenol	7.5	U, J, CLP16	ug/kg dry	7.5	11/04/10	11/15/10	CLP SOM01.2 BS
85-01-8	Phenanthrene	53		ug/kg dry	37	11/04/10	11/15/10	CLP SOM01.2 BS
108-95-2	Phenol	190	U	ug/kg dry	190	11/04/10	11/09/10	CLP SOM01.2 B
129-00-0	Pyrene	120		ug/kg dry	37	11/04/10	11/15/10	CLP SOM01.2 BS
Tentatively Identified Compounds:								
57-10-3	n-Hexadecanoic acid	300	NJ, CLP15	ug/kg dry		11/04/10	11/09/10	CLP SOM01.2 B
57-11-4	Octadecanoic acid	200	NJ, CLP15	ug/kg dry		11/04/10	11/09/10	CLP SOM01.2 B
R4-6500	Petroleum Product:		N, CLP15			11/04/10	11/09/10	CLP SOM01.2 B
R4-6501	Unidentified Compound(s)	3000	J, CLP15	ug/kg dry		11/04/10	11/09/10	CLP SOM01.2 B



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D.A.R.T. Id: 11-0019

Project: 11-0019, Tronox Inc - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 11-0019, Tronox Inc

Contract Lab Case: 40729

Sample ID: 13767ASF

Lab ID: C104601-40

MD No:

Station ID: 13767

Matrix: Surface Soil

D No: 6592 MITKEM

Date Collected: 10/25/10 15:41

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	11		%		11/03/10	11/10/10	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	190	U	ug/kg dry	190	11/03/10	11/10/10	CLP SOM01.2 B
92-52-4	1,1-Biphenyl	190	U	ug/kg dry	190	11/03/10	11/10/10	CLP SOM01.2 B
95-94-3	1,2,4,5-Tetrachlorobenzene	190	U	ug/kg dry	190	11/03/10	11/10/10	CLP SOM01.2 B
58-90-2	2,3,4,6-Tetrachlorophenol	190	U	ug/kg dry	190	11/03/10	11/10/10	CLP SOM01.2 B
95-95-4	2,4,5-Trichlorophenol	190	U	ug/kg dry	190	11/03/10	11/10/10	CLP SOM01.2 B
88-06-2	2,4,6-Trichlorophenol	190	U	ug/kg dry	190	11/03/10	11/10/10	CLP SOM01.2 B
120-83-2	2,4-Dichlorophenol	190	U	ug/kg dry	190	11/03/10	11/10/10	CLP SOM01.2 B
105-67-9	2,4-Dimethylphenol	190	U, J, QC-1	ug/kg dry	190	11/03/10	11/10/10	CLP SOM01.2 B
51-28-5	2,4-Dinitrophenol	360	U, J, CLP16, QC-1	ug/kg dry	360	11/03/10	11/10/10	CLP SOM01.2 B
121-14-2	2,4-Dinitrotoluene	190	U	ug/kg dry	190	11/03/10	11/10/10	CLP SOM01.2 B
606-20-2	2,6-Dinitrotoluene	190	U	ug/kg dry	190	11/03/10	11/10/10	CLP SOM01.2 B
91-58-7	2-Chloronaphthalene	190	U	ug/kg dry	190	11/03/10	11/10/10	CLP SOM01.2 B
95-57-8	2-Chlorophenol	190	U	ug/kg dry	190	11/03/10	11/10/10	CLP SOM01.2 B
534-52-1	2-Methyl-4,6-dinitrophenol	360	U	ug/kg dry	360	11/03/10	11/10/10	CLP SOM01.2 B
91-57-6	2-Methylnaphthalene	3.6	U	ug/kg dry	3.6	11/03/10	11/16/10	CLP SOM01.2 BS
95-48-7	2-Methylphenol	190	U	ug/kg dry	190	11/03/10	11/10/10	CLP SOM01.2 B
88-74-4	2-Nitroaniline	360	U	ug/kg dry	360	11/03/10	11/10/10	CLP SOM01.2 B
88-75-5	2-Nitrophenol	190	U	ug/kg dry	190	11/03/10	11/10/10	CLP SOM01.2 B
91-94-1	3,3'-Dichlorobenzidine	190	U	ug/kg dry	190	11/03/10	11/10/10	CLP SOM01.2 B
99-09-2	3-Nitroaniline	360	U	ug/kg dry	360	11/03/10	11/10/10	CLP SOM01.2 B
101-55-3	4-Bromophenyl phenyl ether	190	U	ug/kg dry	190	11/03/10	11/10/10	CLP SOM01.2 B
59-50-7	4-Chloro-3-methylphenol	190	U	ug/kg dry	190	11/03/10	11/10/10	CLP SOM01.2 B
106-47-8	4-Chloroaniline	190	U	ug/kg dry	190	11/03/10	11/10/10	CLP SOM01.2 B
7005-72-3	4-Chlorophenyl phenyl ether	190	U	ug/kg dry	190	11/03/10	11/10/10	CLP SOM01.2 B
100-01-6	4-Nitroaniline	360	U, J, QC-1	ug/kg dry	360	11/03/10	11/10/10	CLP SOM01.2 B
100-02-7	4-Nitrophenol	360	U	ug/kg dry	360	11/03/10	11/10/10	CLP SOM01.2 B
83-32-9	Acenaphthene	3.6	U	ug/kg dry	3.6	11/03/10	11/16/10	CLP SOM01.2 BS
208-96-8	Acenaphthylene	84		ug/kg dry	36	11/03/10	11/16/10	CLP SOM01.2 BS



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D.A.R.T. Id: 11-0019

Project: 11-0019, Tronox Inc - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 11-0019, Tronox Inc

Contract Lab Case: 40729

Sample ID: 13767ASF

Lab ID: C104601-40

MD No:

Station ID: 13767

Matrix: Surface Soil

D No: 6592 MITKEM

Date Collected: 10/25/10 15:41

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
98-86-2	Acetophenone	190	U	ug/kg dry	190	11/03/10	11/10/10	CLP SOM01.2 B
120-12-7	Anthracene	76		ug/kg dry	36	11/03/10	11/16/10	CLP SOM01.2 BS
1912-24-9	Atrazine	190	U	ug/kg dry	190	11/03/10	11/10/10	CLP SOM01.2 B
100-52-7	Benzaldehyde	190	U	ug/kg dry	190	11/03/10	11/10/10	CLP SOM01.2 B
56-55-3	Benzo(a)anthracene	200		ug/kg dry	190	11/03/10	11/10/10	CLP SOM01.2 B
50-32-8	Benzo(a)pyrene	200		ug/kg dry	190	11/03/10	11/10/10	CLP SOM01.2 B
205-99-2	Benzo(b)fluoranthene	210		ug/kg dry	190	11/03/10	11/10/10	CLP SOM01.2 B
191-24-2	Benzo(g,h,i)perylene	330		ug/kg dry	36	11/03/10	11/16/10	CLP SOM01.2 BS
207-08-9	Benzo(k)fluoranthene	380		ug/kg dry	190	11/03/10	11/10/10	CLP SOM01.2 B
85-68-7	Benzyl butyl phthalate	190	U	ug/kg dry	190	11/03/10	11/10/10	CLP SOM01.2 B
111-91-1	Bis(2-chloroethoxy)methane	190	U	ug/kg dry	190	11/03/10	11/10/10	CLP SOM01.2 B
111-44-4	bis(2-Chloroethyl) Ether	190	U	ug/kg dry	190	11/03/10	11/10/10	CLP SOM01.2 B
39638-32-9	Bis(2-chloroisopropyl) ether	190	U	ug/kg dry	190	11/03/10	11/10/10	CLP SOM01.2 B
117-81-7	Bis(2-ethylhexyl) phthalate	190	U	ug/kg dry	190	11/03/10	11/10/10	CLP SOM01.2 B
105-60-2	Caprolactam	190	U	ug/kg dry	190	11/03/10	11/10/10	CLP SOM01.2 B
86-74-8	Carbazole	190	U	ug/kg dry	190	11/03/10	11/10/10	CLP SOM01.2 B
218-01-9	Chrysene	210		ug/kg dry	190	11/03/10	11/10/10	CLP SOM01.2 B
53-70-3	Dibenzo(a,h)anthracene	100		ug/kg dry	36	11/03/10	11/16/10	CLP SOM01.2 BS
132-64-9	Dibenzofuran	190	U	ug/kg dry	190	11/03/10	11/10/10	CLP SOM01.2 B
84-66-2	Diethyl phthalate	190	U	ug/kg dry	190	11/03/10	11/10/10	CLP SOM01.2 B
131-11-3	Dimethyl phthalate	190	U	ug/kg dry	190	11/03/10	11/10/10	CLP SOM01.2 B
84-74-2	Di-n-butylphthalate	190	U	ug/kg dry	190	11/03/10	11/10/10	CLP SOM01.2 B
117-84-0	Di-n-octylphthalate	190	U	ug/kg dry	190	11/03/10	11/10/10	CLP SOM01.2 B
206-44-0	Fluoranthene	280		ug/kg dry	36	11/03/10	11/16/10	CLP SOM01.2 BS
86-73-7	Fluorene	3.6	U	ug/kg dry	3.6	11/03/10	11/16/10	CLP SOM01.2 BS
118-74-1	Hexachlorobenzene (HCB)	190	U	ug/kg dry	190	11/03/10	11/10/10	CLP SOM01.2 B
87-68-3	Hexachlorobutadiene	190	U	ug/kg dry	190	11/03/10	11/10/10	CLP SOM01.2 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	190	U	ug/kg dry	190	11/03/10	11/10/10	CLP SOM01.2 B
67-72-1	Hexachloroethane	190	U	ug/kg dry	190	11/03/10	11/10/10	CLP SOM01.2 B
193-39-5	Indeno (1,2,3-cd) pyrene	340		ug/kg dry	36	11/03/10	11/16/10	CLP SOM01.2 BS
78-59-1	Isophorone	190	U	ug/kg dry	190	11/03/10	11/10/10	CLP SOM01.2 B



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D.A.R.T. Id: 11-0019

Project: 11-0019, Tronox Inc - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 11-0019, Tronox Inc

Contract Lab Case: 40729

Sample ID: 13767ASF

Lab ID: C104601-40

MD No:

Station ID: 13767

Matrix: Surface Soil

D No: 6592 MITKEM

Date Collected: 10/25/10 15:41

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
91-20-3	Naphthalene	3.6	U	ug/kg dry	3.6	11/03/10	11/16/10	CLP SOM01.2 BS
98-95-3	Nitrobenzene	190	U	ug/kg dry	190	11/03/10	11/10/10	CLP SOM01.2 B
621-64-7	n-Nitroso di-n-Propylamine	190	U	ug/kg dry	190	11/03/10	11/10/10	CLP SOM01.2 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	190	U	ug/kg dry	190	11/03/10	11/10/10	CLP SOM01.2 B
87-86-5	Pentachlorophenol	9.6	J, CLP16, QC-1	ug/kg dry	7.4	11/03/10	11/16/10	CLP SOM01.2 BS
85-01-8	Phenanthrene	29		ug/kg dry	3.6	11/03/10	11/16/10	CLP SOM01.2 BS
108-95-2	Phenol	190	U	ug/kg dry	190	11/03/10	11/10/10	CLP SOM01.2 B
129-00-0	Pyrene	240		ug/kg dry	190	11/03/10	11/10/10	CLP SOM01.2 B
Tentatively Identified Compounds:								
R4-6501	Unidentified Compound(s)	1000	J, CLP15	ug/kg dry		11/03/10	11/10/10	CLP SOM01.2 B



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980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0019

Project: 11-0019, Tronox Inc - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 11-0019, Tronox Inc

Contract Lab Case: 40729

Sample ID: 13774ASF

Lab ID: C104601-41

MD No:

Station ID: 13774

Matrix: Surface Soil

D No: 6593 MITKEM

Date Collected: 10/26/10 12:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	15		%		11/03/10	11/10/10	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	200	U	ug/kg dry	200	11/03/10	11/10/10	CLP SOM01.2 B
92-52-4	1,1-Biphenyl	200	U	ug/kg dry	200	11/03/10	11/10/10	CLP SOM01.2 B
95-94-3	1,2,4,5-Tetrachlorobenzene	200	U	ug/kg dry	200	11/03/10	11/10/10	CLP SOM01.2 B
58-90-2	2,3,4,6-Tetrachlorophenol	200	U	ug/kg dry	200	11/03/10	11/10/10	CLP SOM01.2 B
95-95-4	2,4,5-Trichlorophenol	200	U	ug/kg dry	200	11/03/10	11/10/10	CLP SOM01.2 B
88-06-2	2,4,6-Trichlorophenol	200	U	ug/kg dry	200	11/03/10	11/10/10	CLP SOM01.2 B
120-83-2	2,4-Dichlorophenol	200	U	ug/kg dry	200	11/03/10	11/10/10	CLP SOM01.2 B
105-67-9	2,4-Dimethylphenol	200	U, J, QC-1	ug/kg dry	200	11/03/10	11/10/10	CLP SOM01.2 B
51-28-5	2,4-Dinitrophenol	390	U, J, CLP16, QC-1	ug/kg dry	390	11/03/10	11/10/10	CLP SOM01.2 B
121-14-2	2,4-Dinitrotoluene	200	U	ug/kg dry	200	11/03/10	11/10/10	CLP SOM01.2 B
606-20-2	2,6-Dinitrotoluene	200	U	ug/kg dry	200	11/03/10	11/10/10	CLP SOM01.2 B
91-58-7	2-Chloronaphthalene	200	U	ug/kg dry	200	11/03/10	11/10/10	CLP SOM01.2 B
95-57-8	2-Chlorophenol	200	U	ug/kg dry	200	11/03/10	11/10/10	CLP SOM01.2 B
534-52-1	2-Methyl-4,6-dinitrophenol	390	U	ug/kg dry	390	11/03/10	11/10/10	CLP SOM01.2 B
91-57-6	2-Methylnaphthalene	3.9	U	ug/kg dry	3.9	11/03/10	11/16/10	CLP SOM01.2 BS
95-48-7	2-Methylphenol	200	U	ug/kg dry	200	11/03/10	11/10/10	CLP SOM01.2 B
88-74-4	2-Nitroaniline	390	U	ug/kg dry	390	11/03/10	11/10/10	CLP SOM01.2 B
88-75-5	2-Nitrophenol	200	U	ug/kg dry	200	11/03/10	11/10/10	CLP SOM01.2 B
91-94-1	3,3'-Dichlorobenzidine	200	U	ug/kg dry	200	11/03/10	11/10/10	CLP SOM01.2 B
99-09-2	3-Nitroaniline	390	U	ug/kg dry	390	11/03/10	11/10/10	CLP SOM01.2 B
101-55-3	4-Bromophenyl phenyl ether	200	U	ug/kg dry	200	11/03/10	11/10/10	CLP SOM01.2 B
59-50-7	4-Chloro-3-methylphenol	200	U	ug/kg dry	200	11/03/10	11/10/10	CLP SOM01.2 B
106-47-8	4-Chloroaniline	200	U	ug/kg dry	200	11/03/10	11/10/10	CLP SOM01.2 B
7005-72-3	4-Chlorophenyl phenyl ether	200	U	ug/kg dry	200	11/03/10	11/10/10	CLP SOM01.2 B
100-01-6	4-Nitroaniline	390	U, J, QC-1	ug/kg dry	390	11/03/10	11/10/10	CLP SOM01.2 B
100-02-7	4-Nitrophenol	390	U	ug/kg dry	390	11/03/10	11/10/10	CLP SOM01.2 B
83-32-9	Acenaphthene	3.9	U	ug/kg dry	3.9	11/03/10	11/16/10	CLP SOM01.2 BS
208-96-8	Acenaphthylene	3.9	U	ug/kg dry	3.9	11/03/10	11/16/10	CLP SOM01.2 BS



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980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0019
Project: 11-0019, Tronox Inc - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 11-0019, Tronox Inc

Contract Lab Case: 40729

Sample ID: 13774ASF

Lab ID: C104601-41

MD No:

Station ID: 13774

Matrix: Surface Soil

D No: 6593 MITKEM

Date Collected: 10/26/10 12:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
98-86-2	Acetophenone	200	U	ug/kg dry	200	11/03/10	11/10/10	CLP SOM01.2 B
120-12-7	Anthracene	4.0		ug/kg dry	3.9	11/03/10	11/16/10	CLP SOM01.2 BS
1912-24-9	Atrazine	200	U	ug/kg dry	200	11/03/10	11/10/10	CLP SOM01.2 B
100-52-7	Benzaldehyde	200	U	ug/kg dry	200	11/03/10	11/10/10	CLP SOM01.2 B
56-55-3	Benzo(a)anthracene	15		ug/kg dry	3.9	11/03/10	11/16/10	CLP SOM01.2 BS
50-32-8	Benzo(a)pyrene	21		ug/kg dry	3.9	11/03/10	11/16/10	CLP SOM01.2 BS
205-99-2	Benzo(b)fluoranthene	33		ug/kg dry	3.9	11/03/10	11/16/10	CLP SOM01.2 BS
191-24-2	Benzo(g,h,i)perylene	18		ug/kg dry	3.9	11/03/10	11/16/10	CLP SOM01.2 BS
207-08-9	Benzo(k)fluoranthene	20	J, QC-2	ug/kg dry	3.9	11/03/10	11/16/10	CLP SOM01.2 BS
85-68-7	Benzyl butyl phthalate	200	U	ug/kg dry	200	11/03/10	11/10/10	CLP SOM01.2 B
111-91-1	Bis(2-chloroethoxy)methane	200	U	ug/kg dry	200	11/03/10	11/10/10	CLP SOM01.2 B
111-44-4	bis(2-Chloroethyl) Ether	200	U	ug/kg dry	200	11/03/10	11/10/10	CLP SOM01.2 B
39638-32-9	Bis(2-chloroisopropyl) ether	200	U	ug/kg dry	200	11/03/10	11/10/10	CLP SOM01.2 B
117-81-7	Bis(2-ethylhexyl) phthalate	200	U	ug/kg dry	200	11/03/10	11/10/10	CLP SOM01.2 B
105-60-2	Caprolactam	200	U	ug/kg dry	200	11/03/10	11/10/10	CLP SOM01.2 B
86-74-8	Carbazole	200	U	ug/kg dry	200	11/03/10	11/10/10	CLP SOM01.2 B
218-01-9	Chrysene	20		ug/kg dry	3.9	11/03/10	11/16/10	CLP SOM01.2 BS
53-70-3	Dibenzo(a,h)anthracene	5.5		ug/kg dry	3.9	11/03/10	11/16/10	CLP SOM01.2 BS
132-64-9	Dibenzofuran	200	U	ug/kg dry	200	11/03/10	11/10/10	CLP SOM01.2 B
84-66-2	Diethyl phthalate	200	U	ug/kg dry	200	11/03/10	11/10/10	CLP SOM01.2 B
131-11-3	Dimethyl phthalate	200	U	ug/kg dry	200	11/03/10	11/10/10	CLP SOM01.2 B
84-74-2	Di-n-butylphthalate	200	U	ug/kg dry	200	11/03/10	11/10/10	CLP SOM01.2 B
117-84-0	Di-n-octylphthalate	200	U	ug/kg dry	200	11/03/10	11/10/10	CLP SOM01.2 B
206-44-0	Fluoranthene	28		ug/kg dry	3.9	11/03/10	11/16/10	CLP SOM01.2 BS
86-73-7	Fluorene	3.9	U	ug/kg dry	3.9	11/03/10	11/16/10	CLP SOM01.2 BS
118-74-1	Hexachlorobenzene (HCB)	200	U	ug/kg dry	200	11/03/10	11/10/10	CLP SOM01.2 B
87-68-3	Hexachlorobutadiene	200	U	ug/kg dry	200	11/03/10	11/10/10	CLP SOM01.2 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	200	U	ug/kg dry	200	11/03/10	11/10/10	CLP SOM01.2 B
67-72-1	Hexachloroethane	200	U	ug/kg dry	200	11/03/10	11/10/10	CLP SOM01.2 B
193-39-5	Indeno (1,2,3-cd) pyrene	17		ug/kg dry	3.9	11/03/10	11/16/10	CLP SOM01.2 BS
78-59-1	Isophorone	200	U	ug/kg dry	200	11/03/10	11/10/10	CLP SOM01.2 B



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0019

Project: 11-0019, Tronox Inc - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 11-0019, Tronox Inc

Contract Lab Case: 40729

Sample ID: 13774ASF

Lab ID: C104601-41

MD No:

Station ID: 13774

Matrix: Surface Soil

D No: 6593 MITKEM

Date Collected: 10/26/10 12:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
91-20-3	Naphthalene	3.9	U	ug/kg dry	3.9	11/03/10	11/16/10	CLP SOM01.2 BS
98-95-3	Nitrobenzene	200	U	ug/kg dry	200	11/03/10	11/10/10	CLP SOM01.2 B
621-64-7	n-Nitroso di-n-Propylamine	200	U	ug/kg dry	200	11/03/10	11/10/10	CLP SOM01.2 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	200	U	ug/kg dry	200	11/03/10	11/10/10	CLP SOM01.2 B
87-86-5	Pentachlorophenol	7.9	U, J, CLP16, QC-1	ug/kg dry	7.9	11/03/10	11/16/10	CLP SOM01.2 BS
85-01-8	Phenanthrene	11		ug/kg dry	3.9	11/03/10	11/16/10	CLP SOM01.2 BS
108-95-2	Phenol	200	U	ug/kg dry	200	11/03/10	11/10/10	CLP SOM01.2 B
129-00-0	Pyrene	28		ug/kg dry	3.9	11/03/10	11/16/10	CLP SOM01.2 BS
Tentatively Identified Compounds:								
R4-6500	Petroleum Product:		N, CLP15			11/03/10	11/10/10	CLP SOM01.2 B
58-22-0	Testosterone	300	NJ, CLP15	ug/kg dry		11/03/10	11/10/10	CLP SOM01.2 B
R4-6501	Unidentified Compound(s)	2000	J, CLP15	ug/kg dry		11/03/10	11/10/10	CLP SOM01.2 B



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D.A.R.T. Id: 11-0019

Project: 11-0019, Tronox Inc - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 11-0019, Tronox Inc

Contract Lab Case: 40729

Sample ID: 13775ASB12

Lab ID: C104601-42

MD No:

Station ID: 13775

Matrix: Subsurface Soil

D No: 6595 MITKEM

Date Collected: 10/26/10 14:25

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	12		%		11/03/10	11/13/10	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	190	U	ug/kg dry	190	11/03/10	11/13/10	CLP SOM01.2 B
92-52-4	1,1-Biphenyl	190	U	ug/kg dry	190	11/03/10	11/13/10	CLP SOM01.2 B
95-94-3	1,2,4,5-Tetrachlorobenzene	190	U	ug/kg dry	190	11/03/10	11/13/10	CLP SOM01.2 B
58-90-2	2,3,4,6-Tetrachlorophenol	190	U	ug/kg dry	190	11/03/10	11/13/10	CLP SOM01.2 B
95-95-4	2,4,5-Trichlorophenol	190	U	ug/kg dry	190	11/03/10	11/13/10	CLP SOM01.2 B
88-06-2	2,4,6-Trichlorophenol	190	U	ug/kg dry	190	11/03/10	11/13/10	CLP SOM01.2 B
120-83-2	2,4-Dichlorophenol	190	U	ug/kg dry	190	11/03/10	11/13/10	CLP SOM01.2 B
105-67-9	2,4-Dimethylphenol	190	U	ug/kg dry	190	11/03/10	11/13/10	CLP SOM01.2 B
51-28-5	2,4-Dinitrophenol	370	U, J, CLP16, QC-1	ug/kg dry	370	11/03/10	11/13/10	CLP SOM01.2 B
121-14-2	2,4-Dinitrotoluene	190	U	ug/kg dry	190	11/03/10	11/13/10	CLP SOM01.2 B
606-20-2	2,6-Dinitrotoluene	190	U	ug/kg dry	190	11/03/10	11/13/10	CLP SOM01.2 B
91-58-7	2-Chloronaphthalene	190	U	ug/kg dry	190	11/03/10	11/13/10	CLP SOM01.2 B
95-57-8	2-Chlorophenol	190	U	ug/kg dry	190	11/03/10	11/13/10	CLP SOM01.2 B
534-52-1	2-Methyl-4,6-dinitrophenol	370	U, J, QC-1	ug/kg dry	370	11/03/10	11/13/10	CLP SOM01.2 B
91-57-6	2-Methylnaphthalene	3.7	U	ug/kg dry	3.7	11/03/10	11/16/10	CLP SOM01.2 BS
95-48-7	2-Methylphenol	190	U	ug/kg dry	190	11/03/10	11/13/10	CLP SOM01.2 B
88-74-4	2-Nitroaniline	370	U	ug/kg dry	370	11/03/10	11/13/10	CLP SOM01.2 B
88-75-5	2-Nitrophenol	190	U	ug/kg dry	190	11/03/10	11/13/10	CLP SOM01.2 B
91-94-1	3,3'-Dichlorobenzidine	190	U, J, QS-4	ug/kg dry	190	11/03/10	11/13/10	CLP SOM01.2 B
99-09-2	3-Nitroaniline	370	U	ug/kg dry	370	11/03/10	11/13/10	CLP SOM01.2 B
101-55-3	4-Bromophenyl phenyl ether	190	U	ug/kg dry	190	11/03/10	11/13/10	CLP SOM01.2 B
59-50-7	4-Chloro-3-methylphenol	190	U	ug/kg dry	190	11/03/10	11/13/10	CLP SOM01.2 B
106-47-8	4-Chloroaniline	190	U, J, QS-4	ug/kg dry	190	11/03/10	11/13/10	CLP SOM01.2 B
7005-72-3	4-Chlorophenyl phenyl ether	190	U	ug/kg dry	190	11/03/10	11/13/10	CLP SOM01.2 B
100-01-6	4-Nitroaniline	370	U	ug/kg dry	370	11/03/10	11/13/10	CLP SOM01.2 B
100-02-7	4-Nitrophenol	370	U	ug/kg dry	370	11/03/10	11/13/10	CLP SOM01.2 B
83-32-9	Acenaphthene	3.7	U	ug/kg dry	3.7	11/03/10	11/16/10	CLP SOM01.2 BS
208-96-8	Acenaphthylene	12		ug/kg dry	3.7	11/03/10	11/16/10	CLP SOM01.2 BS



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D.A.R.T. Id: 11-0019
Project: 11-0019, Tronox Inc - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 11-0019, Tronox Inc

Contract Lab Case: 40729

Sample ID: 13775ASB12

Lab ID: C104601-42

MD No:

Station ID: 13775

Matrix: Subsurface Soil

D No: 6595 MITKEM

Date Collected: 10/26/10 14:25

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
98-86-2	Acetophenone	190	U	ug/kg dry	190	11/03/10	11/13/10	CLP SOM01.2 B
120-12-7	Anthracene	8.5		ug/kg dry	3.7	11/03/10	11/16/10	CLP SOM01.2 BS
1912-24-9	Atrazine	190	U, J, QC-1	ug/kg dry	190	11/03/10	11/13/10	CLP SOM01.2 B
100-52-7	Benzaldehyde	190	U	ug/kg dry	190	11/03/10	11/13/10	CLP SOM01.2 B
56-55-3	Benzo(a)anthracene	31		ug/kg dry	3.7	11/03/10	11/16/10	CLP SOM01.2 BS
50-32-8	Benzo(a)pyrene	88		ug/kg dry	37	11/03/10	11/16/10	CLP SOM01.2 BS
205-99-2	Benzo(b)fluoranthene	120		ug/kg dry	37	11/03/10	11/16/10	CLP SOM01.2 BS
191-24-2	Benzo(g,h,i)perylene	56		ug/kg dry	37	11/03/10	11/16/10	CLP SOM01.2 BS
207-08-9	Benzo(k)fluoranthene	95	J, QC-2	ug/kg dry	37	11/03/10	11/16/10	CLP SOM01.2 BS
85-68-7	Benzyl butyl phthalate	190	U	ug/kg dry	190	11/03/10	11/13/10	CLP SOM01.2 B
111-91-1	Bis(2-chloroethoxy)methane	190	U	ug/kg dry	190	11/03/10	11/13/10	CLP SOM01.2 B
111-44-4	bis(2-Chloroethyl) Ether	190	U	ug/kg dry	190	11/03/10	11/13/10	CLP SOM01.2 B
39638-32-9	Bis(2-chloroisopropyl) ether	190	U	ug/kg dry	190	11/03/10	11/13/10	CLP SOM01.2 B
117-81-7	Bis(2-ethylhexyl) phthalate	190	U	ug/kg dry	190	11/03/10	11/13/10	CLP SOM01.2 B
105-60-2	Caprolactam	190	U	ug/kg dry	190	11/03/10	11/13/10	CLP SOM01.2 B
86-74-8	Carbazole	190	U	ug/kg dry	190	11/03/10	11/13/10	CLP SOM01.2 B
218-01-9	Chrysene	46		ug/kg dry	37	11/03/10	11/16/10	CLP SOM01.2 BS
53-70-3	Dibenzo(a,h)anthracene	17		ug/kg dry	3.7	11/03/10	11/16/10	CLP SOM01.2 BS
132-64-9	Dibenzofuran	190	U	ug/kg dry	190	11/03/10	11/13/10	CLP SOM01.2 B
84-66-2	Diethyl phthalate	190	U	ug/kg dry	190	11/03/10	11/13/10	CLP SOM01.2 B
131-11-3	Dimethyl phthalate	190	U	ug/kg dry	190	11/03/10	11/13/10	CLP SOM01.2 B
84-74-2	Di-n-butylphthalate	190	U	ug/kg dry	190	11/03/10	11/13/10	CLP SOM01.2 B
117-84-0	Di-n-octylphthalate	190	U	ug/kg dry	190	11/03/10	11/13/10	CLP SOM01.2 B
206-44-0	Fluoranthene	28		ug/kg dry	3.7	11/03/10	11/16/10	CLP SOM01.2 BS
86-73-7	Fluorene	3.7	U	ug/kg dry	3.7	11/03/10	11/16/10	CLP SOM01.2 BS
118-74-1	Hexachlorobenzene (HCB)	190	U	ug/kg dry	190	11/03/10	11/13/10	CLP SOM01.2 B
87-68-3	Hexachlorobutadiene	190	U	ug/kg dry	190	11/03/10	11/13/10	CLP SOM01.2 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	190	U, J, QS-4	ug/kg dry	190	11/03/10	11/13/10	CLP SOM01.2 B
67-72-1	Hexachloroethane	190	U	ug/kg dry	190	11/03/10	11/13/10	CLP SOM01.2 B
193-39-5	Indeno (1,2,3-cd) pyrene	60		ug/kg dry	37	11/03/10	11/16/10	CLP SOM01.2 BS
78-59-1	Isophorone	190	U	ug/kg dry	190	11/03/10	11/13/10	CLP SOM01.2 B



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 4 Science and Ecosystem Support Division
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0019
 Project: 11-0019, Tronox Inc - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 11-0019, Tronox Inc

Contract Lab Case: 40729

Sample ID: 13775ASB12

Lab ID: C104601-42

MD No:

Station ID: 13775

Matrix: Subsurface Soil

D No: 6595 MITKEM

Date Collected: 10/26/10 14:25

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
91-20-3	Naphthalene	3.7	U	ug/kg dry	3.7	11/03/10	11/16/10	CLP SOM01.2 BS
98-95-3	Nitrobenzene	190	U	ug/kg dry	190	11/03/10	11/13/10	CLP SOM01.2 B
621-64-7	n-Nitroso di-n-Propylamine	190	U	ug/kg dry	190	11/03/10	11/13/10	CLP SOM01.2 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	190	U	ug/kg dry	190	11/03/10	11/13/10	CLP SOM01.2 B
87-86-5	Pentachlorophenol	7.5	U, J, CLP16, QC-1	ug/kg dry	7.5	11/03/10	11/16/10	CLP SOM01.2 BS
85-01-8	Phenanthrene	8.2		ug/kg dry	3.7	11/03/10	11/16/10	CLP SOM01.2 BS
108-95-2	Phenol	190	U	ug/kg dry	190	11/03/10	11/13/10	CLP SOM01.2 B
129-00-0	Pyrene	200		ug/kg dry	190	11/03/10	11/13/10	CLP SOM01.2 B
Tentatively Identified Compounds:								
57-10-3	n-Hexadecanoic acid	200	NJ, CLP15	ug/kg dry		11/03/10	11/13/10	CLP SOM01.2 B
R4-6500	Petroleum Product:		N, CLP15			11/03/10	11/13/10	CLP SOM01.2 B
R4-6501	Unidentified Compound(s)	7000	J, CLP15	ug/kg dry		11/03/10	11/13/10	CLP SOM01.2 B



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D.A.R.T. Id: 11-0019

Project: 11-0019, Tronox Inc - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 11-0019, Tronox Inc

Contract Lab Case: 40729

Sample ID: 13775ASF

Lab ID: C104601-43

MD No:

Station ID: 13775

Matrix: Surface Soil

D No: 6594 MITKEM

Date Collected: 10/26/10 14:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	17		%		11/03/10	11/13/10	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	200	U	ug/kg dry	200	11/03/10	11/13/10	CLP SOM01.2 B
92-52-4	1,1-Biphenyl	200	U	ug/kg dry	200	11/03/10	11/13/10	CLP SOM01.2 B
95-94-3	1,2,4,5-Tetrachlorobenzene	200	U	ug/kg dry	200	11/03/10	11/13/10	CLP SOM01.2 B
58-90-2	2,3,4,6-Tetrachlorophenol	200	U	ug/kg dry	200	11/03/10	11/13/10	CLP SOM01.2 B
95-95-4	2,4,5-Trichlorophenol	200	U	ug/kg dry	200	11/03/10	11/13/10	CLP SOM01.2 B
88-06-2	2,4,6-Trichlorophenol	200	U	ug/kg dry	200	11/03/10	11/13/10	CLP SOM01.2 B
120-83-2	2,4-Dichlorophenol	200	U	ug/kg dry	200	11/03/10	11/13/10	CLP SOM01.2 B
105-67-9	2,4-Dimethylphenol	200	U	ug/kg dry	200	11/03/10	11/13/10	CLP SOM01.2 B
51-28-5	2,4-Dinitrophenol	390	U, J, CLP16, QC-1	ug/kg dry	390	11/03/10	11/13/10	CLP SOM01.2 B
121-14-2	2,4-Dinitrotoluene	200	U	ug/kg dry	200	11/03/10	11/13/10	CLP SOM01.2 B
606-20-2	2,6-Dinitrotoluene	200	U	ug/kg dry	200	11/03/10	11/13/10	CLP SOM01.2 B
91-58-7	2-Chloronaphthalene	200	U	ug/kg dry	200	11/03/10	11/13/10	CLP SOM01.2 B
95-57-8	2-Chlorophenol	200	U	ug/kg dry	200	11/03/10	11/13/10	CLP SOM01.2 B
534-52-1	2-Methyl-4,6-dinitrophenol	390	U, J, QC-1	ug/kg dry	390	11/03/10	11/13/10	CLP SOM01.2 B
91-57-6	2-Methylnaphthalene	3.9	U	ug/kg dry	3.9	11/03/10	11/16/10	CLP SOM01.2 BS
95-48-7	2-Methylphenol	200	U	ug/kg dry	200	11/03/10	11/13/10	CLP SOM01.2 B
88-74-4	2-Nitroaniline	390	U	ug/kg dry	390	11/03/10	11/13/10	CLP SOM01.2 B
88-75-5	2-Nitrophenol	200	U	ug/kg dry	200	11/03/10	11/13/10	CLP SOM01.2 B
91-94-1	3,3'-Dichlorobenzidine	200	U	ug/kg dry	200	11/03/10	11/13/10	CLP SOM01.2 B
99-09-2	3-Nitroaniline	390	U	ug/kg dry	390	11/03/10	11/13/10	CLP SOM01.2 B
101-55-3	4-Bromophenyl phenyl ether	200	U	ug/kg dry	200	11/03/10	11/13/10	CLP SOM01.2 B
59-50-7	4-Chloro-3-methylphenol	200	U	ug/kg dry	200	11/03/10	11/13/10	CLP SOM01.2 B
106-47-8	4-Chloroaniline	200	U	ug/kg dry	200	11/03/10	11/13/10	CLP SOM01.2 B
7005-72-3	4-Chlorophenyl phenyl ether	200	U	ug/kg dry	200	11/03/10	11/13/10	CLP SOM01.2 B
100-01-6	4-Nitroaniline	390	U	ug/kg dry	390	11/03/10	11/13/10	CLP SOM01.2 B
100-02-7	4-Nitrophenol	390	U	ug/kg dry	390	11/03/10	11/13/10	CLP SOM01.2 B
83-32-9	Acenaphthene	3.9	U	ug/kg dry	3.9	11/03/10	11/16/10	CLP SOM01.2 BS
208-96-8	Acenaphthylene	3.9	U	ug/kg dry	3.9	11/03/10	11/16/10	CLP SOM01.2 BS



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D.A.R.T. Id: 11-0019

Project: 11-0019, Tronox Inc - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 11-0019, Tronox Inc

Contract Lab Case: 40729

Sample ID: 13775ASF

Lab ID: C104601-43

MD No:

Station ID: 13775

Matrix: Surface Soil

D No: 6594 MITKEM

Date Collected: 10/26/10 14:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
98-86-2	Acetophenone	200	U	ug/kg dry	200	11/03/10	11/13/10	CLP SOM01.2 B
120-12-7	Anthracene	3.9	U	ug/kg dry	3.9	11/03/10	11/16/10	CLP SOM01.2 BS
1912-24-9	Atrazine	200	U, J, QC-1	ug/kg dry	200	11/03/10	11/13/10	CLP SOM01.2 B
100-52-7	Benzaldehyde	200	U	ug/kg dry	200	11/03/10	11/13/10	CLP SOM01.2 B
56-55-3	Benzo(a)anthracene	5.7		ug/kg dry	3.9	11/03/10	11/16/10	CLP SOM01.2 BS
50-32-8	Benzo(a)pyrene	8.3		ug/kg dry	3.9	11/03/10	11/16/10	CLP SOM01.2 BS
205-99-2	Benzo(b)fluoranthene	16		ug/kg dry	3.9	11/03/10	11/16/10	CLP SOM01.2 BS
191-24-2	Benzo(g,h,i)perylene	8.2		ug/kg dry	3.9	11/03/10	11/16/10	CLP SOM01.2 BS
207-08-9	Benzo(k)fluoranthene	8.4	J, QC-2	ug/kg dry	3.9	11/03/10	11/16/10	CLP SOM01.2 BS
85-68-7	Benzyl butyl phthalate	200	U	ug/kg dry	200	11/03/10	11/13/10	CLP SOM01.2 B
111-91-1	Bis(2-chloroethoxy)methane	200	U	ug/kg dry	200	11/03/10	11/13/10	CLP SOM01.2 B
111-44-4	bis(2-Chloroethyl) Ether	200	U	ug/kg dry	200	11/03/10	11/13/10	CLP SOM01.2 B
39638-32-9	Bis(2-chloroisopropyl) ether	200	U	ug/kg dry	200	11/03/10	11/13/10	CLP SOM01.2 B
117-81-7	Bis(2-ethylhexyl) phthalate	200	U	ug/kg dry	200	11/03/10	11/13/10	CLP SOM01.2 B
105-60-2	Caprolactam	200	U	ug/kg dry	200	11/03/10	11/13/10	CLP SOM01.2 B
86-74-8	Carbazole	200	U	ug/kg dry	200	11/03/10	11/13/10	CLP SOM01.2 B
218-01-9	Chrysene	8.9		ug/kg dry	3.9	11/03/10	11/16/10	CLP SOM01.2 BS
53-70-3	Dibenzo(a,h)anthracene	3.9	U	ug/kg dry	3.9	11/03/10	11/16/10	CLP SOM01.2 BS
132-64-9	Dibenzofuran	200	U	ug/kg dry	200	11/03/10	11/13/10	CLP SOM01.2 B
84-66-2	Diethyl phthalate	200	U	ug/kg dry	200	11/03/10	11/13/10	CLP SOM01.2 B
131-11-3	Dimethyl phthalate	200	U	ug/kg dry	200	11/03/10	11/13/10	CLP SOM01.2 B
84-74-2	Di-n-butylphthalate	200	U	ug/kg dry	200	11/03/10	11/13/10	CLP SOM01.2 B
117-84-0	Di-n-octylphthalate	200	U	ug/kg dry	200	11/03/10	11/13/10	CLP SOM01.2 B
206-44-0	Fluoranthene	12		ug/kg dry	3.9	11/03/10	11/16/10	CLP SOM01.2 BS
86-73-7	Fluorene	3.9	U	ug/kg dry	3.9	11/03/10	11/16/10	CLP SOM01.2 BS
118-74-1	Hexachlorobenzene (HCB)	200	U	ug/kg dry	200	11/03/10	11/13/10	CLP SOM01.2 B
87-68-3	Hexachlorobutadiene	200	U	ug/kg dry	200	11/03/10	11/13/10	CLP SOM01.2 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	200	U	ug/kg dry	200	11/03/10	11/13/10	CLP SOM01.2 B
67-72-1	Hexachloroethane	200	U	ug/kg dry	200	11/03/10	11/13/10	CLP SOM01.2 B
193-39-5	Indeno (1,2,3-cd) pyrene	7.2		ug/kg dry	3.9	11/03/10	11/16/10	CLP SOM01.2 BS
78-59-1	Isophorone	200	U	ug/kg dry	200	11/03/10	11/13/10	CLP SOM01.2 B



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0019

Project: 11-0019, Tronox Inc - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 11-0019, Tronox Inc

Contract Lab Case: 40729

Sample ID: 13775ASF

Lab ID: C104601-43

MD No:

Station ID: 13775

Matrix: Surface Soil

D No: 6594 MITKEM

Date Collected: 10/26/10 14:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
91-20-3	Naphthalene	3.9	U	ug/kg dry	3.9	11/03/10	11/16/10	CLP SOM01.2 BS
98-95-3	Nitrobenzene	200	U	ug/kg dry	200	11/03/10	11/13/10	CLP SOM01.2 B
621-64-7	n-Nitroso di-n-Propylamine	200	U	ug/kg dry	200	11/03/10	11/13/10	CLP SOM01.2 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	200	U	ug/kg dry	200	11/03/10	11/13/10	CLP SOM01.2 B
87-86-5	Pentachlorophenol	7.9	U, J, CLP16, QC-1	ug/kg dry	7.9	11/03/10	11/16/10	CLP SOM01.2 BS
85-01-8	Phenanthrene	4.1		ug/kg dry	3.9	11/03/10	11/16/10	CLP SOM01.2 BS
108-95-2	Phenol	200	U	ug/kg dry	200	11/03/10	11/13/10	CLP SOM01.2 B
129-00-0	Pyrene	14		ug/kg dry	3.9	11/03/10	11/16/10	CLP SOM01.2 BS
Tentatively Identified Compounds:								
R4-6501	Unidentified Compound(s)	8000	J, CLP15	ug/kg dry		11/03/10	11/13/10	CLP SOM01.2 B



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D.A.R.T. Id: 11-0019

Project: 11-0019, Tronox Inc - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 11-0019, Tronox Inc

Contract Lab Case: 40729

Sample ID: 13785ASF

Lab ID: C104601-44

MD No:

Station ID: 13785

Matrix: Surface Soil

D No: 6599 MITKEM

Date Collected: 10/26/10 13:40

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	15		%		11/03/10	11/11/10	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	200	U	ug/kg dry	200	11/03/10	11/11/10	CLP SOM01.2 B
92-52-4	1,1-Biphenyl	200	U	ug/kg dry	200	11/03/10	11/11/10	CLP SOM01.2 B
95-94-3	1,2,4,5-Tetrachlorobenzene	200	U	ug/kg dry	200	11/03/10	11/11/10	CLP SOM01.2 B
58-90-2	2,3,4,6-Tetrachlorophenol	200	U	ug/kg dry	200	11/03/10	11/11/10	CLP SOM01.2 B
95-95-4	2,4,5-Trichlorophenol	200	U	ug/kg dry	200	11/03/10	11/11/10	CLP SOM01.2 B
88-06-2	2,4,6-Trichlorophenol	200	U	ug/kg dry	200	11/03/10	11/11/10	CLP SOM01.2 B
120-83-2	2,4-Dichlorophenol	200	U	ug/kg dry	200	11/03/10	11/11/10	CLP SOM01.2 B
105-67-9	2,4-Dimethylphenol	200	U, J, QC-1	ug/kg dry	200	11/03/10	11/11/10	CLP SOM01.2 B
51-28-5	2,4-Dinitrophenol	380	U, J, CLP16, QC-1	ug/kg dry	380	11/03/10	11/11/10	CLP SOM01.2 B
121-14-2	2,4-Dinitrotoluene	200	U	ug/kg dry	200	11/03/10	11/11/10	CLP SOM01.2 B
606-20-2	2,6-Dinitrotoluene	200	U	ug/kg dry	200	11/03/10	11/11/10	CLP SOM01.2 B
91-58-7	2-Chloronaphthalene	200	U	ug/kg dry	200	11/03/10	11/11/10	CLP SOM01.2 B
95-57-8	2-Chlorophenol	200	U	ug/kg dry	200	11/03/10	11/11/10	CLP SOM01.2 B
534-52-1	2-Methyl-4,6-dinitrophenol	380	U	ug/kg dry	380	11/03/10	11/11/10	CLP SOM01.2 B
91-57-6	2-Methylnaphthalene	3.8	U	ug/kg dry	3.8	11/03/10	11/16/10	CLP SOM01.2 BS
95-48-7	2-Methylphenol	200	U	ug/kg dry	200	11/03/10	11/11/10	CLP SOM01.2 B
88-74-4	2-Nitroaniline	380	U	ug/kg dry	380	11/03/10	11/11/10	CLP SOM01.2 B
88-75-5	2-Nitrophenol	200	U	ug/kg dry	200	11/03/10	11/11/10	CLP SOM01.2 B
91-94-1	3,3'-Dichlorobenzidine	200	U	ug/kg dry	200	11/03/10	11/11/10	CLP SOM01.2 B
99-09-2	3-Nitroaniline	380	U	ug/kg dry	380	11/03/10	11/11/10	CLP SOM01.2 B
101-55-3	4-Bromophenyl phenyl ether	200	U	ug/kg dry	200	11/03/10	11/11/10	CLP SOM01.2 B
59-50-7	4-Chloro-3-methylphenol	200	U	ug/kg dry	200	11/03/10	11/11/10	CLP SOM01.2 B
106-47-8	4-Chloroaniline	200	U	ug/kg dry	200	11/03/10	11/11/10	CLP SOM01.2 B
7005-72-3	4-Chlorophenyl phenyl ether	200	U	ug/kg dry	200	11/03/10	11/11/10	CLP SOM01.2 B
100-01-6	4-Nitroaniline	380	U, J, QC-1	ug/kg dry	380	11/03/10	11/11/10	CLP SOM01.2 B
100-02-7	4-Nitrophenol	380	U	ug/kg dry	380	11/03/10	11/11/10	CLP SOM01.2 B
83-32-9	Acenaphthene	3.8	U	ug/kg dry	3.8	11/03/10	11/16/10	CLP SOM01.2 BS
208-96-8	Acenaphthylene	17		ug/kg dry	3.8	11/03/10	11/16/10	CLP SOM01.2 BS



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D.A.R.T. Id: 11-0019
Project: 11-0019, Tronox Inc - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 11-0019, Tronox Inc

Contract Lab Case: 40729

Sample ID: 13785ASF

Lab ID: C104601-44

MD No:

Station ID: 13785

Matrix: Surface Soil

D No: 6599 MITKEM

Date Collected: 10/26/10 13:40

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
98-86-2	Acetophenone	200	U	ug/kg dry	200	11/03/10	11/11/10	CLP SOM01.2 B
120-12-7	Anthracene	20		ug/kg dry	3.8	11/03/10	11/16/10	CLP SOM01.2 BS
1912-24-9	Atrazine	200	U	ug/kg dry	200	11/03/10	11/11/10	CLP SOM01.2 B
100-52-7	Benzaldehyde	200	U	ug/kg dry	200	11/03/10	11/11/10	CLP SOM01.2 B
56-55-3	Benzo(a)anthracene	34		ug/kg dry	3.8	11/03/10	11/16/10	CLP SOM01.2 BS
50-32-8	Benzo(a)pyrene	95		ug/kg dry	38	11/03/10	11/16/10	CLP SOM01.2 BS
205-99-2	Benzo(b)fluoranthene	160		ug/kg dry	38	11/03/10	11/16/10	CLP SOM01.2 BS
191-24-2	Benzo(g,h,i)perylene	71		ug/kg dry	38	11/03/10	11/16/10	CLP SOM01.2 BS
207-08-9	Benzo(k)fluoranthene	120	J, QC-2	ug/kg dry	38	11/03/10	11/16/10	CLP SOM01.2 BS
85-68-7	Benzyl butyl phthalate	200	U	ug/kg dry	200	11/03/10	11/11/10	CLP SOM01.2 B
111-91-1	Bis(2-chloroethoxy)methane	200	U	ug/kg dry	200	11/03/10	11/11/10	CLP SOM01.2 B
111-44-4	bis(2-Chloroethyl) Ether	200	U	ug/kg dry	200	11/03/10	11/11/10	CLP SOM01.2 B
39638-32-9	Bis(2-chloroisopropyl) ether	200	U	ug/kg dry	200	11/03/10	11/11/10	CLP SOM01.2 B
117-81-7	Bis(2-ethylhexyl) phthalate	270	J, QC-2	ug/kg dry	200	11/03/10	11/11/10	CLP SOM01.2 B
105-60-2	Caprolactam	200	U	ug/kg dry	200	11/03/10	11/11/10	CLP SOM01.2 B
86-74-8	Carbazole	200	U	ug/kg dry	200	11/03/10	11/11/10	CLP SOM01.2 B
218-01-9	Chrysene	60		ug/kg dry	38	11/03/10	11/16/10	CLP SOM01.2 BS
53-70-3	Dibenzo(a,h)anthracene	20		ug/kg dry	3.8	11/03/10	11/16/10	CLP SOM01.2 BS
132-64-9	Dibenzofuran	200	U	ug/kg dry	200	11/03/10	11/11/10	CLP SOM01.2 B
84-66-2	Diethyl phthalate	200	U	ug/kg dry	200	11/03/10	11/11/10	CLP SOM01.2 B
131-11-3	Dimethyl phthalate	200	U	ug/kg dry	200	11/03/10	11/11/10	CLP SOM01.2 B
84-74-2	Di-n-butylphthalate	200	U	ug/kg dry	200	11/03/10	11/11/10	CLP SOM01.2 B
117-84-0	Di-n-octylphthalate	200	U	ug/kg dry	200	11/03/10	11/11/10	CLP SOM01.2 B
206-44-0	Fluoranthene	56		ug/kg dry	38	11/03/10	11/16/10	CLP SOM01.2 BS
86-73-7	Fluorene	3.8	U	ug/kg dry	3.8	11/03/10	11/16/10	CLP SOM01.2 BS
118-74-1	Hexachlorobenzene (HCB)	200	U	ug/kg dry	200	11/03/10	11/11/10	CLP SOM01.2 B
87-68-3	Hexachlorobutadiene	200	U	ug/kg dry	200	11/03/10	11/11/10	CLP SOM01.2 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	200	U	ug/kg dry	200	11/03/10	11/11/10	CLP SOM01.2 B
67-72-1	Hexachloroethane	200	U	ug/kg dry	200	11/03/10	11/11/10	CLP SOM01.2 B
193-39-5	Indeno (1,2,3-cd) pyrene	72		ug/kg dry	38	11/03/10	11/16/10	CLP SOM01.2 BS
78-59-1	Isophorone	200	U	ug/kg dry	200	11/03/10	11/11/10	CLP SOM01.2 B



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 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0019
 Project: 11-0019, Tronox Inc - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 11-0019, Tronox Inc

Contract Lab Case: 40729

Sample ID: 13785ASF

Lab ID: C104601-44

MD No:

Station ID: 13785

Matrix: Surface Soil

D No: 6599 MITKEM

Date Collected: 10/26/10 13:40

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
91-20-3	Naphthalene	3.8	U	ug/kg dry	3.8	11/03/10	11/16/10	CLP SOM01.2 BS
98-95-3	Nitrobenzene	200	U	ug/kg dry	200	11/03/10	11/11/10	CLP SOM01.2 B
621-64-7	n-Nitroso di-n-Propylamine	200	U	ug/kg dry	200	11/03/10	11/11/10	CLP SOM01.2 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	200	U	ug/kg dry	200	11/03/10	11/11/10	CLP SOM01.2 B
87-86-5	Pentachlorophenol	6.4	J, CLP01, CLP16, QC-1	ug/kg dry	7.8	11/03/10	11/16/10	CLP SOM01.2 BS
85-01-8	Phenanthrene	11		ug/kg dry	3.8	11/03/10	11/16/10	CLP SOM01.2 BS
108-95-2	Phenol	200	U	ug/kg dry	200	11/03/10	11/11/10	CLP SOM01.2 B
129-00-0	Pyrene	83	J, QC-2	ug/kg dry	38	11/03/10	11/16/10	CLP SOM01.2 BS
Tentatively Identified Compounds:								
57-10-3	n-Hexadecanoic acid	400	NJ, CLP15	ug/kg dry		11/03/10	11/11/10	CLP SOM01.2 B
R4-6500	Petroleum Product:		N, CLP15			11/03/10	11/11/10	CLP SOM01.2 B
1058-61-3	Stigmast-4-en-3-one	300	NJ, CLP15	ug/kg dry		11/03/10	11/11/10	CLP SOM01.2 B
R4-6501	Unidentified Compound(s)	3000	J, CLP15	ug/kg dry		11/03/10	11/11/10	CLP SOM01.2 B



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D.A.R.T. Id: 11-0019

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Semi Volatile Organics

Project: 11-0019, Tronox Inc

Contract Lab Case: 40729

Sample ID: 13889ASF

Lab ID: C104601-45

MD No:

Station ID: 13889

Matrix: Surface Soil

D No: 6598 MITKEM

Date Collected: 10/26/10 14:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	12		%		11/03/10	11/11/10	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	190	U	ug/kg dry	190	11/03/10	11/11/10	CLP SOM01.2 B
92-52-4	1,1-Biphenyl	190	U	ug/kg dry	190	11/03/10	11/11/10	CLP SOM01.2 B
95-94-3	1,2,4,5-Tetrachlorobenzene	190	U	ug/kg dry	190	11/03/10	11/11/10	CLP SOM01.2 B
58-90-2	2,3,4,6-Tetrachlorophenol	190	U	ug/kg dry	190	11/03/10	11/11/10	CLP SOM01.2 B
95-95-4	2,4,5-Trichlorophenol	190	U	ug/kg dry	190	11/03/10	11/11/10	CLP SOM01.2 B
88-06-2	2,4,6-Trichlorophenol	190	U	ug/kg dry	190	11/03/10	11/11/10	CLP SOM01.2 B
120-83-2	2,4-Dichlorophenol	190	U	ug/kg dry	190	11/03/10	11/11/10	CLP SOM01.2 B
105-67-9	2,4-Dimethylphenol	190	U, J, QC-1	ug/kg dry	190	11/03/10	11/11/10	CLP SOM01.2 B
51-28-5	2,4-Dinitrophenol	370	U, J, CLP16, QC-1	ug/kg dry	370	11/03/10	11/11/10	CLP SOM01.2 B
121-14-2	2,4-Dinitrotoluene	190	U	ug/kg dry	190	11/03/10	11/11/10	CLP SOM01.2 B
606-20-2	2,6-Dinitrotoluene	190	U	ug/kg dry	190	11/03/10	11/11/10	CLP SOM01.2 B
91-58-7	2-Chloronaphthalene	190	U	ug/kg dry	190	11/03/10	11/11/10	CLP SOM01.2 B
95-57-8	2-Chlorophenol	190	U	ug/kg dry	190	11/03/10	11/11/10	CLP SOM01.2 B
534-52-1	2-Methyl-4,6-dinitrophenol	370	U	ug/kg dry	370	11/03/10	11/11/10	CLP SOM01.2 B
91-57-6	2-Methylnaphthalene	3.7	U	ug/kg dry	3.7	11/03/10	11/16/10	CLP SOM01.2 BS
95-48-7	2-Methylphenol	190	U	ug/kg dry	190	11/03/10	11/11/10	CLP SOM01.2 B
88-74-4	2-Nitroaniline	370	U	ug/kg dry	370	11/03/10	11/11/10	CLP SOM01.2 B
88-75-5	2-Nitrophenol	190	U	ug/kg dry	190	11/03/10	11/11/10	CLP SOM01.2 B
91-94-1	3,3'-Dichlorobenzidine	190	U	ug/kg dry	190	11/03/10	11/11/10	CLP SOM01.2 B
99-09-2	3-Nitroaniline	370	U	ug/kg dry	370	11/03/10	11/11/10	CLP SOM01.2 B
101-55-3	4-Bromophenyl phenyl ether	190	U	ug/kg dry	190	11/03/10	11/11/10	CLP SOM01.2 B
59-50-7	4-Chloro-3-methylphenol	190	U	ug/kg dry	190	11/03/10	11/11/10	CLP SOM01.2 B
106-47-8	4-Chloroaniline	190	U	ug/kg dry	190	11/03/10	11/11/10	CLP SOM01.2 B
7005-72-3	4-Chlorophenyl phenyl ether	190	U	ug/kg dry	190	11/03/10	11/11/10	CLP SOM01.2 B
100-01-6	4-Nitroaniline	370	U, J, QC-1	ug/kg dry	370	11/03/10	11/11/10	CLP SOM01.2 B
100-02-7	4-Nitrophenol	370	U	ug/kg dry	370	11/03/10	11/11/10	CLP SOM01.2 B
83-32-9	Acenaphthene	3.7	U	ug/kg dry	3.7	11/03/10	11/16/10	CLP SOM01.2 BS
208-96-8	Acenaphthylene	3.7	U	ug/kg dry	3.7	11/03/10	11/16/10	CLP SOM01.2 BS



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D.A.R.T. Id: 11-0019

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Semi Volatile Organics

Project: 11-0019, Tronox Inc

Contract Lab Case: 40729

Sample ID: 13889ASF

Lab ID: C104601-45

MD No:

Station ID: 13889

Matrix: Surface Soil

D No: 6598 MITKEM

Date Collected: 10/26/10 14:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
98-86-2	Acetophenone	190	U	ug/kg dry	190	11/03/10	11/11/10	CLP SOM01.2 B
120-12-7	Anthracene	3.7	U	ug/kg dry	3.7	11/03/10	11/16/10	CLP SOM01.2 BS
1912-24-9	Atrazine	190	U	ug/kg dry	190	11/03/10	11/11/10	CLP SOM01.2 B
100-52-7	Benzaldehyde	190	U	ug/kg dry	190	11/03/10	11/11/10	CLP SOM01.2 B
56-55-3	Benzo(a)anthracene	4.1		ug/kg dry	3.7	11/03/10	11/16/10	CLP SOM01.2 BS
50-32-8	Benzo(a)pyrene	3.7	U	ug/kg dry	3.7	11/03/10	11/16/10	CLP SOM01.2 BS
205-99-2	Benzo(b)fluoranthene	11		ug/kg dry	3.7	11/03/10	11/16/10	CLP SOM01.2 BS
191-24-2	Benzo(g,h,i)perylene	4.6		ug/kg dry	3.7	11/03/10	11/16/10	CLP SOM01.2 BS
207-08-9	Benzo(k)fluoranthene	7.1	J, QC-2	ug/kg dry	3.7	11/03/10	11/16/10	CLP SOM01.2 BS
85-68-7	Benzyl butyl phthalate	190	U	ug/kg dry	190	11/03/10	11/11/10	CLP SOM01.2 B
111-91-1	Bis(2-chloroethoxy)methane	190	U	ug/kg dry	190	11/03/10	11/11/10	CLP SOM01.2 B
111-44-4	bis(2-Chloroethyl) Ether	190	U	ug/kg dry	190	11/03/10	11/11/10	CLP SOM01.2 B
39638-32-9	Bis(2-chloroisopropyl) ether	190	U	ug/kg dry	190	11/03/10	11/11/10	CLP SOM01.2 B
117-81-7	Bis(2-ethylhexyl) phthalate	190	U	ug/kg dry	190	11/03/10	11/11/10	CLP SOM01.2 B
105-60-2	Caprolactam	190	U	ug/kg dry	190	11/03/10	11/11/10	CLP SOM01.2 B
86-74-8	Carbazole	190	U	ug/kg dry	190	11/03/10	11/11/10	CLP SOM01.2 B
218-01-9	Chrysene	8.1		ug/kg dry	3.7	11/03/10	11/16/10	CLP SOM01.2 BS
53-70-3	Dibenzo(a,h)anthracene	3.7	U	ug/kg dry	3.7	11/03/10	11/16/10	CLP SOM01.2 BS
132-64-9	Dibenzofuran	190	U	ug/kg dry	190	11/03/10	11/11/10	CLP SOM01.2 B
84-66-2	Diethyl phthalate	190	U	ug/kg dry	190	11/03/10	11/11/10	CLP SOM01.2 B
131-11-3	Dimethyl phthalate	190	U	ug/kg dry	190	11/03/10	11/11/10	CLP SOM01.2 B
84-74-2	Di-n-butylphthalate	190	U	ug/kg dry	190	11/03/10	11/11/10	CLP SOM01.2 B
117-84-0	Di-n-octylphthalate	190	U	ug/kg dry	190	11/03/10	11/11/10	CLP SOM01.2 B
206-44-0	Fluoranthene	13		ug/kg dry	3.7	11/03/10	11/16/10	CLP SOM01.2 BS
86-73-7	Fluorene	3.7	U	ug/kg dry	3.7	11/03/10	11/16/10	CLP SOM01.2 BS
118-74-1	Hexachlorobenzene (HCB)	190	U	ug/kg dry	190	11/03/10	11/11/10	CLP SOM01.2 B
87-68-3	Hexachlorobutadiene	190	U	ug/kg dry	190	11/03/10	11/11/10	CLP SOM01.2 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	190	U	ug/kg dry	190	11/03/10	11/11/10	CLP SOM01.2 B
67-72-1	Hexachloroethane	190	U	ug/kg dry	190	11/03/10	11/11/10	CLP SOM01.2 B
193-39-5	Indeno (1,2,3-cd) pyrene	4.2		ug/kg dry	3.7	11/03/10	11/16/10	CLP SOM01.2 BS
78-59-1	Isophorone	190	U	ug/kg dry	190	11/03/10	11/11/10	CLP SOM01.2 B



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 4 Science and Ecosystem Support Division
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0019
 Project: 11-0019, Tronox Inc - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 11-0019, Tronox Inc

Contract Lab Case: 40729

Sample ID: 13889ASF

Lab ID: C104601-45

MD No:

Station ID: 13889

Matrix: Surface Soil

D No: 6598 MITKEM

Date Collected: 10/26/10 14:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
91-20-3	Naphthalene	3.7	U	ug/kg dry	3.7	11/03/10	11/16/10	CLP SOM01.2 BS
98-95-3	Nitrobenzene	190	U	ug/kg dry	190	11/03/10	11/11/10	CLP SOM01.2 B
621-64-7	n-Nitroso di-n-Propylamine	190	U	ug/kg dry	190	11/03/10	11/11/10	CLP SOM01.2 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	190	U	ug/kg dry	190	11/03/10	11/11/10	CLP SOM01.2 B
87-86-5	Pentachlorophenol	7.5	U, J, CLP16, QC-1	ug/kg dry	7.5	11/03/10	11/16/10	CLP SOM01.2 BS
85-01-8	Phenanthrene	5.8		ug/kg dry	3.7	11/03/10	11/16/10	CLP SOM01.2 BS
108-95-2	Phenol	190	U	ug/kg dry	190	11/03/10	11/11/10	CLP SOM01.2 B
129-00-0	Pyrene	12		ug/kg dry	3.7	11/03/10	11/16/10	CLP SOM01.2 BS
Tentatively Identified Compounds:								
83-48-7	Stigmasterol	300	NJ, CLP15	ug/kg dry		11/03/10	11/11/10	CLP SOM01.2 B
R4-6501	Unidentified Compound(s)	2000	J, CLP15	ug/kg dry		11/03/10	11/11/10	CLP SOM01.2 B



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D.A.R.T. Id: 11-0019
Project: 11-0019, Tronox Inc - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 11-0019, Tronox Inc

Contract Lab Case: 40729

Sample ID: 13890ASF

Lab ID: C104601-46

MD No:

Station ID: 13890

Matrix: Surface Soil

D No: 6597 MITKEM

Date Collected: 10/26/10 14:08

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	23		%		11/03/10	11/11/10	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	220	U	ug/kg dry	220	11/03/10	11/11/10	CLP SOM01.2 B
92-52-4	1,1-Biphenyl	220	U	ug/kg dry	220	11/03/10	11/11/10	CLP SOM01.2 B
95-94-3	1,2,4,5-Tetrachlorobenzene	220	U	ug/kg dry	220	11/03/10	11/11/10	CLP SOM01.2 B
58-90-2	2,3,4,6-Tetrachlorophenol	220	U	ug/kg dry	220	11/03/10	11/11/10	CLP SOM01.2 B
95-95-4	2,4,5-Trichlorophenol	220	U	ug/kg dry	220	11/03/10	11/11/10	CLP SOM01.2 B
88-06-2	2,4,6-Trichlorophenol	220	U	ug/kg dry	220	11/03/10	11/11/10	CLP SOM01.2 B
120-83-2	2,4-Dichlorophenol	220	U	ug/kg dry	220	11/03/10	11/11/10	CLP SOM01.2 B
105-67-9	2,4-Dimethylphenol	220	U, J, QC-1	ug/kg dry	220	11/03/10	11/11/10	CLP SOM01.2 B
51-28-5	2,4-Dinitrophenol	430	U, J, CLP16, QC-1	ug/kg dry	430	11/03/10	11/11/10	CLP SOM01.2 B
121-14-2	2,4-Dinitrotoluene	220	U	ug/kg dry	220	11/03/10	11/11/10	CLP SOM01.2 B
606-20-2	2,6-Dinitrotoluene	220	U	ug/kg dry	220	11/03/10	11/11/10	CLP SOM01.2 B
91-58-7	2-Chloronaphthalene	220	U	ug/kg dry	220	11/03/10	11/11/10	CLP SOM01.2 B
95-57-8	2-Chlorophenol	220	U	ug/kg dry	220	11/03/10	11/11/10	CLP SOM01.2 B
534-52-1	2-Methyl-4,6-dinitrophenol	430	U	ug/kg dry	430	11/03/10	11/11/10	CLP SOM01.2 B
91-57-6	2-Methylnaphthalene	4.3	U	ug/kg dry	4.3	11/03/10	11/16/10	CLP SOM01.2 BS
95-48-7	2-Methylphenol	220	U	ug/kg dry	220	11/03/10	11/11/10	CLP SOM01.2 B
88-74-4	2-Nitroaniline	430	U	ug/kg dry	430	11/03/10	11/11/10	CLP SOM01.2 B
88-75-5	2-Nitrophenol	220	U	ug/kg dry	220	11/03/10	11/11/10	CLP SOM01.2 B
91-94-1	3,3'-Dichlorobenzidine	220	U	ug/kg dry	220	11/03/10	11/11/10	CLP SOM01.2 B
99-09-2	3-Nitroaniline	430	U	ug/kg dry	430	11/03/10	11/11/10	CLP SOM01.2 B
101-55-3	4-Bromophenyl phenyl ether	220	U	ug/kg dry	220	11/03/10	11/11/10	CLP SOM01.2 B
59-50-7	4-Chloro-3-methylphenol	220	U	ug/kg dry	220	11/03/10	11/11/10	CLP SOM01.2 B
106-47-8	4-Chloroaniline	220	U	ug/kg dry	220	11/03/10	11/11/10	CLP SOM01.2 B
7005-72-3	4-Chlorophenyl phenyl ether	220	U	ug/kg dry	220	11/03/10	11/11/10	CLP SOM01.2 B
100-01-6	4-Nitroaniline	430	U, J, QC-1	ug/kg dry	430	11/03/10	11/11/10	CLP SOM01.2 B
100-02-7	4-Nitrophenol	430	U	ug/kg dry	430	11/03/10	11/11/10	CLP SOM01.2 B
83-32-9	Acenaphthene	4.3	U	ug/kg dry	4.3	11/03/10	11/16/10	CLP SOM01.2 BS
208-96-8	Acenaphthylene	5.1		ug/kg dry	4.3	11/03/10	11/16/10	CLP SOM01.2 BS



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D.A.R.T. Id: 11-0019

Project: 11-0019, Tronox Inc - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 11-0019, Tronox Inc

Contract Lab Case: 40729

Sample ID: 13890ASF

Lab ID: C104601-46

MD No:

Station ID: 13890

Matrix: Surface Soil

D No: 6597 MITKEM

Date Collected: 10/26/10 14:08

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
98-86-2	Acetophenone	220	U	ug/kg dry	220	11/03/10	11/11/10	CLP SOM01.2 B
120-12-7	Anthracene	6.6		ug/kg dry	4.3	11/03/10	11/16/10	CLP SOM01.2 BS
1912-24-9	Atrazine	220	U	ug/kg dry	220	11/03/10	11/11/10	CLP SOM01.2 B
100-52-7	Benzaldehyde	220	U	ug/kg dry	220	11/03/10	11/11/10	CLP SOM01.2 B
56-55-3	Benzo(a)anthracene	19		ug/kg dry	4.3	11/03/10	11/16/10	CLP SOM01.2 BS
50-32-8	Benzo(a)pyrene	25		ug/kg dry	4.3	11/03/10	11/16/10	CLP SOM01.2 BS
205-99-2	Benzo(b)fluoranthene	68		ug/kg dry	43	11/03/10	11/16/10	CLP SOM01.2 BS
191-24-2	Benzo(g,h,i)perylene	24		ug/kg dry	4.3	11/03/10	11/16/10	CLP SOM01.2 BS
207-08-9	Benzo(k)fluoranthene	33	J, QC-2	ug/kg dry	4.3	11/03/10	11/16/10	CLP SOM01.2 BS
85-68-7	Benzyl butyl phthalate	220	U	ug/kg dry	220	11/03/10	11/11/10	CLP SOM01.2 B
111-91-1	Bis(2-chloroethoxy)methane	220	U	ug/kg dry	220	11/03/10	11/11/10	CLP SOM01.2 B
111-44-4	bis(2-Chloroethyl) Ether	220	U	ug/kg dry	220	11/03/10	11/11/10	CLP SOM01.2 B
39638-32-9	Bis(2-chloroisopropyl) ether	220	U	ug/kg dry	220	11/03/10	11/11/10	CLP SOM01.2 B
117-81-7	Bis(2-ethylhexyl) phthalate	430	J, QC-2	ug/kg dry	220	11/03/10	11/11/10	CLP SOM01.2 B
105-60-2	Caprolactam	220	U	ug/kg dry	220	11/03/10	11/11/10	CLP SOM01.2 B
86-74-8	Carbazole	220	U	ug/kg dry	220	11/03/10	11/11/10	CLP SOM01.2 B
218-01-9	Chrysene	31		ug/kg dry	4.3	11/03/10	11/16/10	CLP SOM01.2 BS
53-70-3	Dibenzo(a,h)anthracene	7.2		ug/kg dry	4.3	11/03/10	11/16/10	CLP SOM01.2 BS
132-64-9	Dibenzofuran	220	U	ug/kg dry	220	11/03/10	11/11/10	CLP SOM01.2 B
84-66-2	Diethyl phthalate	220	U	ug/kg dry	220	11/03/10	11/11/10	CLP SOM01.2 B
131-11-3	Dimethyl phthalate	220	U	ug/kg dry	220	11/03/10	11/11/10	CLP SOM01.2 B
84-74-2	Di-n-butylphthalate	220	U	ug/kg dry	220	11/03/10	11/11/10	CLP SOM01.2 B
117-84-0	Di-n-octylphthalate	220	U	ug/kg dry	220	11/03/10	11/11/10	CLP SOM01.2 B
206-44-0	Fluoranthene	35		ug/kg dry	4.3	11/03/10	11/16/10	CLP SOM01.2 BS
86-73-7	Fluorene	4.3	U	ug/kg dry	4.3	11/03/10	11/16/10	CLP SOM01.2 BS
118-74-1	Hexachlorobenzene (HCB)	220	U	ug/kg dry	220	11/03/10	11/11/10	CLP SOM01.2 B
87-68-3	Hexachlorobutadiene	220	U	ug/kg dry	220	11/03/10	11/11/10	CLP SOM01.2 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	220	U	ug/kg dry	220	11/03/10	11/11/10	CLP SOM01.2 B
67-72-1	Hexachloroethane	220	U	ug/kg dry	220	11/03/10	11/11/10	CLP SOM01.2 B
193-39-5	Indeno (1,2,3-cd) pyrene	22		ug/kg dry	4.3	11/03/10	11/16/10	CLP SOM01.2 BS
78-59-1	Isophorone	220	U	ug/kg dry	220	11/03/10	11/11/10	CLP SOM01.2 B



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 Region 4 Science and Ecosystem Support Division
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0019
 Project: 11-0019, Tronox Inc - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 11-0019, Tronox Inc

Contract Lab Case: 40729

Sample ID: 13890ASF

Lab ID: C104601-46

MD No:

Station ID: 13890

Matrix: Surface Soil

D No: 6597 MITKEM

Date Collected: 10/26/10 14:08

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
91-20-3	Naphthalene	4.3	U	ug/kg dry	4.3	11/03/10	11/16/10	CLP SOM01.2 BS
98-95-3	Nitrobenzene	220	U	ug/kg dry	220	11/03/10	11/11/10	CLP SOM01.2 B
621-64-7	n-Nitroso di-n-Propylamine	220	U	ug/kg dry	220	11/03/10	11/11/10	CLP SOM01.2 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	220	U	ug/kg dry	220	11/03/10	11/11/10	CLP SOM01.2 B
87-86-5	Pentachlorophenol	8.7	U, J, CLP16, QC-1	ug/kg dry	8.7	11/03/10	11/16/10	CLP SOM01.2 BS
85-01-8	Phenanthrene	9.5		ug/kg dry	4.3	11/03/10	11/16/10	CLP SOM01.2 BS
108-95-2	Phenol	220	U	ug/kg dry	220	11/03/10	11/11/10	CLP SOM01.2 B
129-00-0	Pyrene	37		ug/kg dry	4.3	11/03/10	11/16/10	CLP SOM01.2 BS
Tentatively Identified Compounds:								
R4-6500	Petroleum Product:		N, CLP15			11/03/10	11/11/10	CLP SOM01.2 B
1058-61-3	Stigmast-4-en-3-one	300	NJ, CLP15	ug/kg dry		11/03/10	11/11/10	CLP SOM01.2 B
R4-6501	Unidentified Compound(s)	4000	J, CLP15	ug/kg dry		11/03/10	11/11/10	CLP SOM01.2 B



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D.A.R.T. Id: 11-0019
Project: 11-0019, Tronox Inc - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 11-0019, Tronox Inc

Contract Lab Case: 40729

Sample ID: 13894ASF

Lab ID: C104601-47

MD No:

Station ID: 13894

Matrix: Surface Soil

D No: 65A0 MITKEM

Date Collected: 10/26/10 13:10

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	12		%		11/03/10	11/13/10	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	190	U	ug/kg dry	190	11/03/10	11/13/10	CLP SOM01.2 B
92-52-4	1,1-Biphenyl	190	U	ug/kg dry	190	11/03/10	11/13/10	CLP SOM01.2 B
95-94-3	1,2,4,5-Tetrachlorobenzene	190	U	ug/kg dry	190	11/03/10	11/13/10	CLP SOM01.2 B
58-90-2	2,3,4,6-Tetrachlorophenol	190	U	ug/kg dry	190	11/03/10	11/13/10	CLP SOM01.2 B
95-95-4	2,4,5-Trichlorophenol	190	U	ug/kg dry	190	11/03/10	11/13/10	CLP SOM01.2 B
88-06-2	2,4,6-Trichlorophenol	190	U	ug/kg dry	190	11/03/10	11/13/10	CLP SOM01.2 B
120-83-2	2,4-Dichlorophenol	190	U	ug/kg dry	190	11/03/10	11/13/10	CLP SOM01.2 B
105-67-9	2,4-Dimethylphenol	190	U	ug/kg dry	190	11/03/10	11/13/10	CLP SOM01.2 B
51-28-5	2,4-Dinitrophenol	370	U, J, CLP16, QC-1	ug/kg dry	370	11/03/10	11/13/10	CLP SOM01.2 B
121-14-2	2,4-Dinitrotoluene	190	U	ug/kg dry	190	11/03/10	11/13/10	CLP SOM01.2 B
606-20-2	2,6-Dinitrotoluene	190	U	ug/kg dry	190	11/03/10	11/13/10	CLP SOM01.2 B
91-58-7	2-Chloronaphthalene	190	U	ug/kg dry	190	11/03/10	11/13/10	CLP SOM01.2 B
95-57-8	2-Chlorophenol	190	U	ug/kg dry	190	11/03/10	11/13/10	CLP SOM01.2 B
534-52-1	2-Methyl-4,6-dinitrophenol	370	U, J, QC-1	ug/kg dry	370	11/03/10	11/13/10	CLP SOM01.2 B
91-57-6	2-Methylnaphthalene	3.7	U	ug/kg dry	3.7	11/03/10	11/16/10	CLP SOM01.2 BS
95-48-7	2-Methylphenol	190	U	ug/kg dry	190	11/03/10	11/13/10	CLP SOM01.2 B
88-74-4	2-Nitroaniline	370	U	ug/kg dry	370	11/03/10	11/13/10	CLP SOM01.2 B
88-75-5	2-Nitrophenol	190	U	ug/kg dry	190	11/03/10	11/13/10	CLP SOM01.2 B
91-94-1	3,3'-Dichlorobenzidine	190	U, J, QS-4	ug/kg dry	190	11/03/10	11/13/10	CLP SOM01.2 B
99-09-2	3-Nitroaniline	370	U	ug/kg dry	370	11/03/10	11/13/10	CLP SOM01.2 B
101-55-3	4-Bromophenyl phenyl ether	190	U	ug/kg dry	190	11/03/10	11/13/10	CLP SOM01.2 B
59-50-7	4-Chloro-3-methylphenol	190	U	ug/kg dry	190	11/03/10	11/13/10	CLP SOM01.2 B
106-47-8	4-Chloroaniline	190	U, J, QS-4	ug/kg dry	190	11/03/10	11/13/10	CLP SOM01.2 B
7005-72-3	4-Chlorophenyl phenyl ether	190	U	ug/kg dry	190	11/03/10	11/13/10	CLP SOM01.2 B
100-01-6	4-Nitroaniline	370	U	ug/kg dry	370	11/03/10	11/13/10	CLP SOM01.2 B
100-02-7	4-Nitrophenol	370	U	ug/kg dry	370	11/03/10	11/13/10	CLP SOM01.2 B
83-32-9	Acenaphthene	3.7	U	ug/kg dry	3.7	11/03/10	11/16/10	CLP SOM01.2 BS
208-96-8	Acenaphthylene	3.7	U	ug/kg dry	3.7	11/03/10	11/16/10	CLP SOM01.2 BS



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D.A.R.T. Id: 11-0019

Project: 11-0019, Tronox Inc - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 11-0019, Tronox Inc

Contract Lab Case: 40729

Sample ID: 13894ASF

Lab ID: C104601-47

MD No:

Station ID: 13894

Matrix: Surface Soil

D No: 65A0 MITKEM

Date Collected: 10/26/10 13:10

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
98-86-2	Acetophenone	190	U	ug/kg dry	190	11/03/10	11/13/10	CLP SOM01.2 B
120-12-7	Anthracene	3.7	U	ug/kg dry	3.7	11/03/10	11/16/10	CLP SOM01.2 BS
1912-24-9	Atrazine	190	U, J, QC-1	ug/kg dry	190	11/03/10	11/13/10	CLP SOM01.2 B
100-52-7	Benzaldehyde	190	U	ug/kg dry	190	11/03/10	11/13/10	CLP SOM01.2 B
56-55-3	Benzo(a)anthracene	8.3		ug/kg dry	3.7	11/03/10	11/16/10	CLP SOM01.2 BS
50-32-8	Benzo(a)pyrene	11		ug/kg dry	3.7	11/03/10	11/16/10	CLP SOM01.2 BS
205-99-2	Benzo(b)fluoranthene	19		ug/kg dry	3.7	11/03/10	11/16/10	CLP SOM01.2 BS
191-24-2	Benzo(g,h,i)perylene	11		ug/kg dry	3.7	11/03/10	11/16/10	CLP SOM01.2 BS
207-08-9	Benzo(k)fluoranthene	14	J, QC-2	ug/kg dry	3.7	11/03/10	11/16/10	CLP SOM01.2 BS
85-68-7	Benzyl butyl phthalate	190	U	ug/kg dry	190	11/03/10	11/13/10	CLP SOM01.2 B
111-91-1	Bis(2-chloroethoxy)methane	190	U	ug/kg dry	190	11/03/10	11/13/10	CLP SOM01.2 B
111-44-4	bis(2-Chloroethyl) Ether	190	U	ug/kg dry	190	11/03/10	11/13/10	CLP SOM01.2 B
39638-32-9	Bis(2-chloroisopropyl) ether	190	U	ug/kg dry	190	11/03/10	11/13/10	CLP SOM01.2 B
117-81-7	Bis(2-ethylhexyl) phthalate	190	U	ug/kg dry	190	11/03/10	11/13/10	CLP SOM01.2 B
105-60-2	Caprolactam	190	U	ug/kg dry	190	11/03/10	11/13/10	CLP SOM01.2 B
86-74-8	Carbazole	190	U	ug/kg dry	190	11/03/10	11/13/10	CLP SOM01.2 B
218-01-9	Chrysene	13		ug/kg dry	3.7	11/03/10	11/16/10	CLP SOM01.2 BS
53-70-3	Dibenzo(a,h)anthracene	3.7	U	ug/kg dry	3.7	11/03/10	11/16/10	CLP SOM01.2 BS
132-64-9	Dibenzofuran	190	U	ug/kg dry	190	11/03/10	11/13/10	CLP SOM01.2 B
84-66-2	Diethyl phthalate	190	U	ug/kg dry	190	11/03/10	11/13/10	CLP SOM01.2 B
131-11-3	Dimethyl phthalate	190	U	ug/kg dry	190	11/03/10	11/13/10	CLP SOM01.2 B
84-74-2	Di-n-butylphthalate	190	U	ug/kg dry	190	11/03/10	11/13/10	CLP SOM01.2 B
117-84-0	Di-n-octylphthalate	190	U	ug/kg dry	190	11/03/10	11/13/10	CLP SOM01.2 B
206-44-0	Fluoranthene	18		ug/kg dry	3.7	11/03/10	11/16/10	CLP SOM01.2 BS
86-73-7	Fluorene	3.7	U	ug/kg dry	3.7	11/03/10	11/16/10	CLP SOM01.2 BS
118-74-1	Hexachlorobenzene (HCB)	190	U	ug/kg dry	190	11/03/10	11/13/10	CLP SOM01.2 B
87-68-3	Hexachlorobutadiene	190	U	ug/kg dry	190	11/03/10	11/13/10	CLP SOM01.2 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	190	U, J, QS-4	ug/kg dry	190	11/03/10	11/13/10	CLP SOM01.2 B
67-72-1	Hexachloroethane	190	U	ug/kg dry	190	11/03/10	11/13/10	CLP SOM01.2 B
193-39-5	Indeno (1,2,3-cd) pyrene	10		ug/kg dry	3.7	11/03/10	11/16/10	CLP SOM01.2 BS
78-59-1	Isophorone	190	U	ug/kg dry	190	11/03/10	11/13/10	CLP SOM01.2 B



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0019

Project: 11-0019, Tronox Inc - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 11-0019, Tronox Inc

Contract Lab Case: 40729

Sample ID: 13894ASF

Lab ID: C104601-47

MD No:

Station ID: 13894

Matrix: Surface Soil

D No: 65A0 MITKEM

Date Collected: 10/26/10 13:10

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
91-20-3	Naphthalene	3.7	U	ug/kg dry	3.7	11/03/10	11/16/10	CLP SOM01.2 BS
98-95-3	Nitrobenzene	190	U	ug/kg dry	190	11/03/10	11/13/10	CLP SOM01.2 B
621-64-7	n-Nitroso di-n-Propylamine	190	U	ug/kg dry	190	11/03/10	11/13/10	CLP SOM01.2 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	190	U	ug/kg dry	190	11/03/10	11/13/10	CLP SOM01.2 B
87-86-5	Pentachlorophenol	7.5	U, J, CLP16, QC-1	ug/kg dry	7.5	11/03/10	11/16/10	CLP SOM01.2 BS
85-01-8	Phenanthrene	7.0		ug/kg dry	3.7	11/03/10	11/16/10	CLP SOM01.2 BS
108-95-2	Phenol	190	U	ug/kg dry	190	11/03/10	11/13/10	CLP SOM01.2 B
129-00-0	Pyrene	19		ug/kg dry	3.7	11/03/10	11/16/10	CLP SOM01.2 BS
Tentatively Identified Compounds:								
62016-79-9	Heptacosane, 1-chloro-	400	NJ, CLP15	ug/kg dry		11/03/10	11/13/10	CLP SOM01.2 B
638-53-9	Tridecanoic acid	200	NJ, CLP15	ug/kg dry		11/03/10	11/13/10	CLP SOM01.2 B
R4-6501	Unidentified Compound(s)	5000	J, CLP15	ug/kg dry		11/03/10	11/13/10	CLP SOM01.2 B



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D.A.R.T. Id: 11-0019
Project: 11-0019, Tronox Inc - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 11-0019, Tronox Inc

Contract Lab Case: 40729

Sample ID: 13900ASF

Lab ID: C104601-48

MD No:

Station ID: 13900

Matrix: Surface Soil

D No: 6596 MITKEM

Date Collected: 10/26/10 12:51

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	16		%		11/03/10	11/13/10	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	200	U	ug/kg dry	200	11/03/10	11/13/10	CLP SOM01.2 B
92-52-4	1,1-Biphenyl	200	U	ug/kg dry	200	11/03/10	11/13/10	CLP SOM01.2 B
95-94-3	1,2,4,5-Tetrachlorobenzene	200	U	ug/kg dry	200	11/03/10	11/13/10	CLP SOM01.2 B
58-90-2	2,3,4,6-Tetrachlorophenol	200	U	ug/kg dry	200	11/03/10	11/13/10	CLP SOM01.2 B
95-95-4	2,4,5-Trichlorophenol	200	U	ug/kg dry	200	11/03/10	11/13/10	CLP SOM01.2 B
88-06-2	2,4,6-Trichlorophenol	200	U	ug/kg dry	200	11/03/10	11/13/10	CLP SOM01.2 B
120-83-2	2,4-Dichlorophenol	200	U	ug/kg dry	200	11/03/10	11/13/10	CLP SOM01.2 B
105-67-9	2,4-Dimethylphenol	200	U	ug/kg dry	200	11/03/10	11/13/10	CLP SOM01.2 B
51-28-5	2,4-Dinitrophenol	390	U, J, CLP16, QC-1	ug/kg dry	390	11/03/10	11/13/10	CLP SOM01.2 B
121-14-2	2,4-Dinitrotoluene	200	U	ug/kg dry	200	11/03/10	11/13/10	CLP SOM01.2 B
606-20-2	2,6-Dinitrotoluene	200	U	ug/kg dry	200	11/03/10	11/13/10	CLP SOM01.2 B
91-58-7	2-Chloronaphthalene	200	U	ug/kg dry	200	11/03/10	11/13/10	CLP SOM01.2 B
95-57-8	2-Chlorophenol	200	U	ug/kg dry	200	11/03/10	11/13/10	CLP SOM01.2 B
534-52-1	2-Methyl-4,6-dinitrophenol	390	U, J, QC-1	ug/kg dry	390	11/03/10	11/13/10	CLP SOM01.2 B
91-57-6	2-Methylnaphthalene	3.9	U	ug/kg dry	3.9	11/03/10	11/16/10	CLP SOM01.2 BS
95-48-7	2-Methylphenol	200	U	ug/kg dry	200	11/03/10	11/13/10	CLP SOM01.2 B
88-74-4	2-Nitroaniline	390	U	ug/kg dry	390	11/03/10	11/13/10	CLP SOM01.2 B
88-75-5	2-Nitrophenol	200	U	ug/kg dry	200	11/03/10	11/13/10	CLP SOM01.2 B
91-94-1	3,3'-Dichlorobenzidine	200	U, J, QS-4	ug/kg dry	200	11/03/10	11/13/10	CLP SOM01.2 B
99-09-2	3-Nitroaniline	390	U	ug/kg dry	390	11/03/10	11/13/10	CLP SOM01.2 B
101-55-3	4-Bromophenyl phenyl ether	200	U	ug/kg dry	200	11/03/10	11/13/10	CLP SOM01.2 B
59-50-7	4-Chloro-3-methylphenol	200	U	ug/kg dry	200	11/03/10	11/13/10	CLP SOM01.2 B
106-47-8	4-Chloroaniline	200	U, J, QS-4	ug/kg dry	200	11/03/10	11/13/10	CLP SOM01.2 B
7005-72-3	4-Chlorophenyl phenyl ether	200	U	ug/kg dry	200	11/03/10	11/13/10	CLP SOM01.2 B
100-01-6	4-Nitroaniline	390	U	ug/kg dry	390	11/03/10	11/13/10	CLP SOM01.2 B
100-02-7	4-Nitrophenol	390	U	ug/kg dry	390	11/03/10	11/13/10	CLP SOM01.2 B
83-32-9	Acenaphthene	3.9	U	ug/kg dry	3.9	11/03/10	11/16/10	CLP SOM01.2 BS
208-96-8	Acenaphthylene	16		ug/kg dry	3.9	11/03/10	11/16/10	CLP SOM01.2 BS



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D.A.R.T. Id: 11-0019

Project: 11-0019, Tronox Inc - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 11-0019, Tronox Inc

Contract Lab Case: 40729

Sample ID: 13900ASF

Lab ID: C104601-48

MD No:

Station ID: 13900

Matrix: Surface Soil

D No: 6596 MITKEM

Date Collected: 10/26/10 12:51

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
98-86-2	Acetophenone	200	U	ug/kg dry	200	11/03/10	11/13/10	CLP SOM01.2 B
120-12-7	Anthracene	25		ug/kg dry	3.9	11/03/10	11/16/10	CLP SOM01.2 BS
1912-24-9	Atrazine	200	U, J, QC-1	ug/kg dry	200	11/03/10	11/13/10	CLP SOM01.2 B
100-52-7	Benzaldehyde	200	U	ug/kg dry	200	11/03/10	11/13/10	CLP SOM01.2 B
56-55-3	Benzo(a)anthracene	230		ug/kg dry	39	11/03/10	11/16/10	CLP SOM01.2 BS
50-32-8	Benzo(a)pyrene	360		ug/kg dry	39	11/03/10	11/16/10	CLP SOM01.2 BS
205-99-2	Benzo(b)fluoranthene	200	U	ug/kg dry	200	11/03/10	11/13/10	CLP SOM01.2 B
191-24-2	Benzo(g,h,i)perylene	250		ug/kg dry	39	11/03/10	11/16/10	CLP SOM01.2 BS
207-08-9	Benzo(k)fluoranthene	400	J, CLP02, QC-2	ug/kg dry	39	11/03/10	11/16/10	CLP SOM01.2 BS
85-68-7	Benzyl butyl phthalate	200	U	ug/kg dry	200	11/03/10	11/13/10	CLP SOM01.2 B
111-91-1	Bis(2-chloroethoxy)methane	200	U	ug/kg dry	200	11/03/10	11/13/10	CLP SOM01.2 B
111-44-4	bis(2-Chloroethyl) Ether	200	U	ug/kg dry	200	11/03/10	11/13/10	CLP SOM01.2 B
39638-32-9	Bis(2-chloroisopropyl) ether	200	U	ug/kg dry	200	11/03/10	11/13/10	CLP SOM01.2 B
117-81-7	Bis(2-ethylhexyl) phthalate	200	U	ug/kg dry	200	11/03/10	11/13/10	CLP SOM01.2 B
105-60-2	Caprolactam	200	U	ug/kg dry	200	11/03/10	11/13/10	CLP SOM01.2 B
86-74-8	Carbazole	200	U	ug/kg dry	200	11/03/10	11/13/10	CLP SOM01.2 B
218-01-9	Chrysene	290		ug/kg dry	39	11/03/10	11/16/10	CLP SOM01.2 BS
53-70-3	Dibenzo(a,h)anthracene	88		ug/kg dry	39	11/03/10	11/16/10	CLP SOM01.2 BS
132-64-9	Dibenzofuran	200	U	ug/kg dry	200	11/03/10	11/13/10	CLP SOM01.2 B
84-66-2	Diethyl phthalate	200	U	ug/kg dry	200	11/03/10	11/13/10	CLP SOM01.2 B
131-11-3	Dimethyl phthalate	200	U	ug/kg dry	200	11/03/10	11/13/10	CLP SOM01.2 B
84-74-2	Di-n-butylphthalate	200	U	ug/kg dry	200	11/03/10	11/13/10	CLP SOM01.2 B
117-84-0	Di-n-octylphthalate	200	U	ug/kg dry	200	11/03/10	11/13/10	CLP SOM01.2 B
206-44-0	Fluoranthene	370		ug/kg dry	39	11/03/10	11/16/10	CLP SOM01.2 BS
86-73-7	Fluorene	3.9	U	ug/kg dry	3.9	11/03/10	11/16/10	CLP SOM01.2 BS
118-74-1	Hexachlorobenzene (HCB)	200	U	ug/kg dry	200	11/03/10	11/13/10	CLP SOM01.2 B
87-68-3	Hexachlorobutadiene	200	U	ug/kg dry	200	11/03/10	11/13/10	CLP SOM01.2 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	200	U, J, QS-4	ug/kg dry	200	11/03/10	11/13/10	CLP SOM01.2 B
67-72-1	Hexachloroethane	200	U	ug/kg dry	200	11/03/10	11/13/10	CLP SOM01.2 B
193-39-5	Indeno (1,2,3-cd) pyrene	250		ug/kg dry	39	11/03/10	11/16/10	CLP SOM01.2 BS



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Region 4 Science and Ecosystem Support Division
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D.A.R.T. Id: 11-0019

Project: 11-0019, Tronox Inc - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 11-0019, Tronox Inc

Contract Lab Case: 40729

Sample ID: 13900ASF

Lab ID: C104601-48

MD No:

Station ID: 13900

Matrix: Surface Soil

D No: 6596 MITKEM

Date Collected: 10/26/10 12:51

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
78-59-1	Isophorone	200	U	ug/kg dry	200	11/03/10	11/13/10	CLP SOM01.2 B
91-20-3	Naphthalene	3.9	U	ug/kg dry	3.9	11/03/10	11/16/10	CLP SOM01.2 BS
98-95-3	Nitrobenzene	200	U	ug/kg dry	200	11/03/10	11/13/10	CLP SOM01.2 B
621-64-7	n-Nitroso di-n-Propylamine	200	U	ug/kg dry	200	11/03/10	11/13/10	CLP SOM01.2 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	200	U	ug/kg dry	200	11/03/10	11/13/10	CLP SOM01.2 B
87-86-5	Pentachlorophenol	7.9	U, J, CLP16, QC-1	ug/kg dry	7.9	11/03/10	11/16/10	CLP SOM01.2 BS
85-01-8	Phenanthrene	170		ug/kg dry	39	11/03/10	11/16/10	CLP SOM01.2 BS
108-95-2	Phenol	200	U	ug/kg dry	200	11/03/10	11/13/10	CLP SOM01.2 B
129-00-0	Pyrene	200	U	ug/kg dry	200	11/03/10	11/13/10	CLP SOM01.2 B
Tentatively Identified Compounds:								
R4-6501	Unidentified Compound(s)	3000	J, CLP15	ug/kg dry		11/03/10	11/13/10	CLP SOM01.2 B



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D.A.R.T. Id: 11-0019

Project: 11-0019, Tronox Inc - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 11-0019, Tronox Inc

Contract Lab Case: 40729

Sample ID: 12624ASB12

Lab ID: C104601-49

MD No:

Station ID: TN09

Matrix: Subsurface Soil

D No: 6587 MITKEM

Date Collected: 10/25/10 16:25

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	9.0		%		11/01/10	11/09/10	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	180	U	ug/kg dry	180	11/01/10	11/09/10	CLP SOM01.2 B
92-52-4	1,1-Biphenyl	180	U	ug/kg dry	180	11/01/10	11/09/10	CLP SOM01.2 B
95-94-3	1,2,4,5-Tetrachlorobenzene	180	U	ug/kg dry	180	11/01/10	11/09/10	CLP SOM01.2 B
58-90-2	2,3,4,6-Tetrachlorophenol	180	U	ug/kg dry	180	11/01/10	11/09/10	CLP SOM01.2 B
95-95-4	2,4,5-Trichlorophenol	180	U	ug/kg dry	180	11/01/10	11/09/10	CLP SOM01.2 B
88-06-2	2,4,6-Trichlorophenol	180	U	ug/kg dry	180	11/01/10	11/09/10	CLP SOM01.2 B
120-83-2	2,4-Dichlorophenol	180	U	ug/kg dry	180	11/01/10	11/09/10	CLP SOM01.2 B
105-67-9	2,4-Dimethylphenol	180	U	ug/kg dry	180	11/01/10	11/09/10	CLP SOM01.2 B
51-28-5	2,4-Dinitrophenol	360	U, J, CLP16	ug/kg dry	360	11/01/10	11/09/10	CLP SOM01.2 B
121-14-2	2,4-Dinitrotoluene	180	U	ug/kg dry	180	11/01/10	11/09/10	CLP SOM01.2 B
606-20-2	2,6-Dinitrotoluene	180	U	ug/kg dry	180	11/01/10	11/09/10	CLP SOM01.2 B
91-58-7	2-Chloronaphthalene	180	U	ug/kg dry	180	11/01/10	11/09/10	CLP SOM01.2 B
95-57-8	2-Chlorophenol	180	U	ug/kg dry	180	11/01/10	11/09/10	CLP SOM01.2 B
534-52-1	2-Methyl-4,6-dinitrophenol	360	U	ug/kg dry	360	11/01/10	11/09/10	CLP SOM01.2 B
91-57-6	2-Methylnaphthalene	3.6	U	ug/kg dry	3.6	11/01/10	11/19/10	CLP SOM01.2 BS
95-48-7	2-Methylphenol	180	U	ug/kg dry	180	11/01/10	11/09/10	CLP SOM01.2 B
88-74-4	2-Nitroaniline	360	U	ug/kg dry	360	11/01/10	11/09/10	CLP SOM01.2 B
88-75-5	2-Nitrophenol	180	U	ug/kg dry	180	11/01/10	11/09/10	CLP SOM01.2 B
91-94-1	3,3'-Dichlorobenzidine	180	U	ug/kg dry	180	11/01/10	11/09/10	CLP SOM01.2 B
99-09-2	3-Nitroaniline	360	U	ug/kg dry	360	11/01/10	11/09/10	CLP SOM01.2 B
101-55-3	4-Bromophenyl phenyl ether	180	U	ug/kg dry	180	11/01/10	11/09/10	CLP SOM01.2 B
59-50-7	4-Chloro-3-methylphenol	180	U	ug/kg dry	180	11/01/10	11/09/10	CLP SOM01.2 B
106-47-8	4-Chloroaniline	180	U	ug/kg dry	180	11/01/10	11/09/10	CLP SOM01.2 B
7005-72-3	4-Chlorophenyl phenyl ether	180	U	ug/kg dry	180	11/01/10	11/09/10	CLP SOM01.2 B
100-01-6	4-Nitroaniline	360	U	ug/kg dry	360	11/01/10	11/09/10	CLP SOM01.2 B
100-02-7	4-Nitrophenol	360	U	ug/kg dry	360	11/01/10	11/09/10	CLP SOM01.2 B
83-32-9	Acenaphthene	3.6	U	ug/kg dry	3.6	11/01/10	11/19/10	CLP SOM01.2 BS
208-96-8	Acenaphthylene	36		ug/kg dry	36	11/01/10	11/19/10	CLP SOM01.2 BS
98-86-2	Acetophenone	180	U	ug/kg dry	180	11/01/10	11/09/10	CLP SOM01.2 B



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D.A.R.T. Id: 11-0019

Project: 11-0019, Tronox Inc - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 11-0019, Tronox Inc

Contract Lab Case: 40729

Sample ID: 12624ASB12

Lab ID: C104601-49

MD No:

Station ID: TN09

Matrix: Subsurface Soil

D No: 6587 MITKEM

Date Collected: 10/25/10 16:25

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
120-12-7	Anthracene	36		ug/kg dry	36	11/01/10	11/19/10	CLP SOM01.2 BS
1912-24-9	Atrazine	180	U	ug/kg dry	180	11/01/10	11/09/10	CLP SOM01.2 B
100-52-7	Benzaldehyde	180	U	ug/kg dry	180	11/01/10	11/09/10	CLP SOM01.2 B
56-55-3	Benzo(a)anthracene	52		ug/kg dry	36	11/01/10	11/19/10	CLP SOM01.2 BS
50-32-8	Benzo(a)pyrene	100		ug/kg dry	36	11/01/10	11/19/10	CLP SOM01.2 BS
205-99-2	Benzo(b)fluoranthene	280		ug/kg dry	180	11/01/10	11/09/10	CLP SOM01.2 B
191-24-2	Benzo(g,h,i)perylene	86		ug/kg dry	36	11/01/10	11/19/10	CLP SOM01.2 BS
207-08-9	Benzo(k)fluoranthene	120		ug/kg dry	36	11/01/10	11/19/10	CLP SOM01.2 BS
85-68-7	Benzyl butyl phthalate	180	U	ug/kg dry	180	11/01/10	11/09/10	CLP SOM01.2 B
111-91-1	Bis(2-chloroethoxy)methane	180	U	ug/kg dry	180	11/01/10	11/09/10	CLP SOM01.2 B
111-44-4	bis(2-Chloroethyl) Ether	180	U	ug/kg dry	180	11/01/10	11/09/10	CLP SOM01.2 B
39638-32-9	Bis(2-chloroisopropyl) ether	180	U	ug/kg dry	180	11/01/10	11/09/10	CLP SOM01.2 B
117-81-7	Bis(2-ethylhexyl) phthalate	180	U	ug/kg dry	180	11/01/10	11/09/10	CLP SOM01.2 B
105-60-2	Caprolactam	180	U	ug/kg dry	180	11/01/10	11/09/10	CLP SOM01.2 B
86-74-8	Carbazole	180	U	ug/kg dry	180	11/01/10	11/09/10	CLP SOM01.2 B
218-01-9	Chrysene	95		ug/kg dry	36	11/01/10	11/19/10	CLP SOM01.2 BS
53-70-3	Dibenzo(a,h)anthracene	45	J, CLP01	ug/kg dry	180	11/01/10	11/09/10	CLP SOM01.2 B
132-64-9	Dibenzofuran	180	U	ug/kg dry	180	11/01/10	11/09/10	CLP SOM01.2 B
84-66-2	Diethyl phthalate	180	U	ug/kg dry	180	11/01/10	11/09/10	CLP SOM01.2 B
131-11-3	Dimethyl phthalate	180	U	ug/kg dry	180	11/01/10	11/09/10	CLP SOM01.2 B
84-74-2	Di-n-butylphthalate	180	U	ug/kg dry	180	11/01/10	11/09/10	CLP SOM01.2 B
117-84-0	Di-n-octylphthalate	180	U	ug/kg dry	180	11/01/10	11/09/10	CLP SOM01.2 B
206-44-0	Fluoranthene	63		ug/kg dry	36	11/01/10	11/19/10	CLP SOM01.2 BS
86-73-7	Fluorene	3.6	U	ug/kg dry	3.6	11/01/10	11/19/10	CLP SOM01.2 BS
118-74-1	Hexachlorobenzene (HCB)	180	U	ug/kg dry	180	11/01/10	11/09/10	CLP SOM01.2 B
87-68-3	Hexachlorobutadiene	180	U	ug/kg dry	180	11/01/10	11/09/10	CLP SOM01.2 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	180	U	ug/kg dry	180	11/01/10	11/09/10	CLP SOM01.2 B
67-72-1	Hexachloroethane	180	U	ug/kg dry	180	11/01/10	11/09/10	CLP SOM01.2 B
193-39-5	Indeno (1,2,3-cd) pyrene	95		ug/kg dry	36	11/01/10	11/19/10	CLP SOM01.2 BS
78-59-1	Isophorone	180	U	ug/kg dry	180	11/01/10	11/09/10	CLP SOM01.2 B
91-20-3	Naphthalene	3.6	U	ug/kg dry	3.6	11/01/10	11/19/10	CLP SOM01.2 BS



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D.A.R.T. Id: 11-0019

Project: 11-0019, Tronox Inc - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 11-0019, Tronox Inc

Contract Lab Case: 40729

Sample ID: 12624ASB12

Lab ID: C104601-49

MD No:

Station ID: TN09

Matrix: Subsurface Soil

D No: 6587 MITKEM

Date Collected: 10/25/10 16:25

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
98-95-3	Nitrobenzene	180	U	ug/kg dry	180	11/01/10	11/09/10	CLP SOM01.2 B
621-64-7	n-Nitroso di-n-Propylamine	180	U	ug/kg dry	180	11/01/10	11/09/10	CLP SOM01.2 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	180	U	ug/kg dry	180	11/01/10	11/09/10	CLP SOM01.2 B
87-86-5	Pentachlorophenol	92	J, CLP01	ug/kg dry	360	11/01/10	11/09/10	CLP SOM01.2 B
85-01-8	Phenanthrene	8.9		ug/kg dry	3.6	11/01/10	11/19/10	CLP SOM01.2 BS
108-95-2	Phenol	180	U	ug/kg dry	180	11/01/10	11/09/10	CLP SOM01.2 B
129-00-0	Pyrene	86		ug/kg dry	36	11/01/10	11/19/10	CLP SOM01.2 BS
Tentatively Identified Compounds:								
R4-0000	Tentatively Identified Compounds	200	U	ug/kg dry	200	11/01/10	11/09/10	CLP SOM01.2 B



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Project: 11-0019, Tronox Inc - Reported by Jeffrey Hendel

January 25, 2011

4SESD-MTSB

MEMORANDUM

SUBJECT: FINAL Analytical Report
Project: 11-0019, Tronox Inc
Superfund Emergency Response and Removal

FROM: Jeffrey Hendel
Quality Assurance Section Chemist

THRU: Marilyn Maycock, Chief
Quality Assurance Section

TO: Timothy Simpson

This data report is being reissued. Some or all of these results were previously reported. Please substitute the corrected results for those results previously reported. Please refer to the Report Narrative for more details.

Attached are the final results for the analytical groups listed below. These analyses were performed in accordance with the associated contract Statement Of Work (SOW). In general, project data quality objectives have not been used to evaluate these data prior to release by the Quality Assurance Section. For a listing of specific data qualifiers and explanations, please refer to the Data Qualifier Definitions included in this report.

Analyses Included in this report:

Method Used:

Dioxin (DIO)

Dioxin

Contract SOW



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Project: 11-0019, Tronox Inc - Reported by Jeffrey Hendel

Report Narrative for Work Order C104703, Project: 11-0019

Site Name: Tronox Inc., Columbus, MS

ELEMENT Sample Nos. C104703-01 through C104703-51

Dioxin Analysis: SGS Environmental Services, Wilmington, NC

The ESAT Work Team reviewed data for the project cited above consisting of forty-nine (49) primary soil samples analyzed per statement of work DLM02.0 for dioxins and furans. In addition to the primary samples, the laboratory also analyzed and reported a performance evaluation sample (PES) and a performance evaluation blank for quality assurance purposes. The samples were collected between 10/25/10 and 10/26/10, and received by the laboratory between 10/29/10 and 11/03/10. The final data package was received by the USEPA Quality Assurance Section, Region 4 SESD/MTSB on 12/14/10. A Stage 4 validation consisting of a manual review (S4VM) was performed on the dioxin samples submitted for this case. The data package presents acceptable technical performance with qualifications.

Pertinent data quality factors are discussed below.

The laboratory scored within limits in the PES spike and blank except the 2,3,7,8-TCDD congener was scored as action low in the spike. All positive results for this congener were "J" qualified and all not-detected results were "R" qualified (CLP27) in the samples. Also, the spiked result for the 1,2,3,4,7,8-HxCDD congener was reported as an Estimated Maximum Possible Concentration (EMPC) at 4.34 ng/Kg. An EMPC for this HxCDD congener was reported for several samples, however, data qualification was not performed.

Nonachlorodiphenyl ether interferences were observed for the 1,2,3,4,6,7,8-HpCDF congener in samples C104703-11, 12, 13, 14, 15, 16, 21, 23, 30, 33, 38, 39, 41, 42, 43, 44, 45, 46, 47, and 48. The reporting limit for this congener was elevated (D-4) and reported as not-detected in the above samples.

The result for the OCDD congener exceeded the calibration range and was "J" qualified (CLP02) in the original analysis or the dilution performed in samples C104703-01, 02, 03, 04, 08, 09, 10, 13, 14, 16, 17, 19, 20, 23, 25, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 38, 40, 44, 48, and 49. The SOW does not require further dilutions for this congener.

The laboratory did not perform a dilution for the 1,2,3,4,6,7,8-HpCDD congener in sample C104703-49. Since the result exceeded the upper limit of the initial calibration range, the result for this congener was "J" qualified (CLP02) in this sample.



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In accordance with the SOW, the laboratory is required perform a confirmatory analysis (DB-225 column) for the 2,3,7,8-TCDF congener if it is above the Contract Required Quantitation Limit (CRQL) and positively identified or reported as an Estimated Maximum Possible Concentration (EMPC) on the DB-5 column. The laboratory did not perform this confirmatory analysis for the following two samples:

The positive value (2.4 ng/Kg, CRQL= 1.02 ng/Kg) in sample C104703-02. This result was not qualified but reported as not confirmed (CLP24).

The EMPC value (0.97 ng/Kg, CRQL= 0.861 ng/Kg) in sample C104703-49. This result was not qualified and reported as not-detected (CLP18).

The laboratory reported the 2,3,7,8-TCDF congener as not-detected but above the CRQL in sample C104703-05. The D-4 qualifier was added to this result.

All data qualification factors are explained by the Region 4 - specific qualifier definitions which are included elsewhere in this report. Further details are provided in the complete data review report, which is on file in the Region 4 SESD Records Center.

Data re-released on 1/25/11 to include missed qualifiers from the original submission for samples C104703-19 edited to add R and CLP27, C104703-25 edited to add CLP27, and C104704-49 edited to include R and CLP27.

cc: Nardina Turner



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D.A.R.T. Id: 11-0019

Project: 11-0019, Tronox Inc - Reported by Jeffrey Hendel

SAMPLES INCLUDED IN THIS REPORT

Project: 11-0019, Tronox Inc

Contract Lab Case: 40729

Sample ID	Laboratory ID	MD#	D#	Matrix	Date Collected
12131ASF	C104703-01			Surface Soil	10/26/10 10:19
12323ASF	C104703-02			Surface Soil	10/26/10 13:10
12324ASF	C104703-03			Surface Soil	10/26/10 13:32
12462ASF	C104703-04			Surface Soil	10/26/10 11:07
12462BSF	C104703-05			Surface Soil	10/26/10 11:28
12462CSF	C104703-06			Surface Soil	10/26/10 11:45
12462CSFX	C104703-07			Surface Soil	10/26/10 11:45
12470ASF	C104703-08			Surface Soil	10/26/10 14:15
12484ASF	C104703-09			Surface Soil	10/25/10 17:00
12486ASF	C104703-10			Surface Soil	10/25/10 16:35
12490ASF	C104703-11			Surface Soil	10/25/10 16:00
12490ASFX	C104703-12			Surface Soil	10/25/10 16:00
12491ASF	C104703-13			Surface Soil	10/26/10 09:05
12520ASF	C104703-14			Surface Soil	10/26/10 09:20
12522ASF	C104703-15			Surface Soil	10/26/10 08:36
12621ASF	C104703-16			Surface Soil	10/26/10 10:00
12622ASF	C104703-17			Surface Soil	10/26/10 09:45
12623ASF	C104703-18			Surface Soil	10/26/10 09:25
12624BSF	C104703-19			Surface Soil	10/25/10 16:45
12629ASF	C104703-20			Surface Soil	10/26/10 08:25
12630ASF	C104703-21			Surface Soil	10/25/10 17:03
12633ASF	C104703-22			Surface Soil	10/26/10 08:50
12634ASF	C104703-23			Surface Soil	10/26/10 09:07
13723ASF	C104703-24			Surface Soil	10/25/10 17:00
13743ASF	C104703-25			Surface Soil	10/25/10 17:20
13744ASF	C104703-26			Surface Soil	10/25/10 15:50
13744BSB12	C104703-27			Subsurface Soil	10/25/10 16:30
13744BSF	C104703-28			Surface Soil	10/25/10 16:10
13746ASF	C104703-29			Surface Soil	10/26/10 09:20
13750ASF	C104703-30			Surface Soil	10/26/10 09:00
13753ASF	C104703-31			Surface Soil	10/26/10 08:40
13755ASF	C104703-32			Surface Soil	10/26/10 09:50
13756ASF	C104703-33			Surface Soil	10/26/10 10:15
13758ASF	C104703-34			Surface Soil	10/26/10 10:30



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Project: 11-0019, Tronox Inc - Reported by Jeffrey Hendel

13758ASFX	C104703-35	Surface Soil	10/26/10 10:35
13759ASF	C104703-36	Surface Soil	10/26/10 11:00
13761ASF	C104703-37	Surface Soil	10/26/10 11:25
13762ASF	C104703-38	Surface Soil	10/26/10 13:00
13766ASF	C104703-39	Surface Soil	10/26/10 13:20
13767ASF	C104703-40	Surface Soil	10/25/10 15:41
13774ASF	C104703-41	Surface Soil	10/26/10 12:30
13775ASB12	C104703-42	Subsurface Soil	10/26/10 14:25
13775ASF	C104703-43	Surface Soil	10/26/10 14:00
13785ASF	C104703-44	Surface Soil	10/26/10 13:40
13889ASF	C104703-45	Surface Soil	10/26/10 14:30
13890ASF	C104703-46	Surface Soil	10/26/10 14:08
13894ASF	C104703-47	Surface Soil	10/26/10 13:10
13900ASF	C104703-48	Surface Soil	10/26/10 12:51
12624ASB12	C104703-49	Subsurface Soil	10/25/10 16:25



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Project: 11-0019, Tronox Inc - Reported by Jeffrey Hendel

DATA QUALIFIER DEFINITIONS

U	The analyte was not detected at or above the reporting limit.
CLP01	Concentration reported is less than the lowest standard on calibration curve
CLP02	Concentration reported is greater than the highest standard on calibration curve
CLP10	2,3,7,8-TCDF confirmed by second column.
CLP18	Estimated Maximum Possible Concentration (EMPC) Reported
CLP24	Result has not been confirmed by second column analysis.
CLP27	PE sample recovery scored as action low.
D-4	MRL elevated due to interferences.
D-5	Estimated quantitation for one or more individual constituents comprising >10% of the total.
J	The identification of the analyte is acceptable; the reported value is an estimate.
Q-3	Instrument not calibrated for all constituents of the total concentration result.
R	The presence or absence of the analyte can not be determined from the data due to severe quality control problems. The data are rejected and considered unusable.

ACRONYMS AND ABBREVIATIONS

CAS	Chemical Abstracts Service Note: Analytes with no known CAS identifiers have been assigned codes beginning with "E", the EPA ID as assigned by the EPA Substance Registry System (www.epa.gov/srs), or beginning with "R4-", a unique identifier assigned by the EPA Region 4 laboratory.
MDL	Method Detection Limit - The minimum concentration of a substance (an analyte) that can be measured and reported with a 99% confidence that the analyte concentration is greater than zero.
MRL	Minimum Reporting Limit - Analyte concentration that corresponds to the lowest demonstrated level of acceptable quantitation. The MRL is sample-specific and accounts for preparation weights and volumes, dilutions, and moisture content of soil/sediments.
TIC	Tentatively Identified Compound - An analyte identified based on a match with the instrument software's mass spectral library. A calibration standard has not been analyzed to confirm the compound's identification or the estimated concentration reported.



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D.A.R.T. Id: 11-0019

Project: 11-0019, Tronox Inc - Reported by Jeffrey Hendel

Dioxin

Project: 11-0019, Tronox Inc

Contract Lab Case: 40729

Sample ID: 12131ASF

Lab ID: C104703-01

MD No:

Station ID: 12131

Matrix: Surface Soil

D No: SGS

Date Collected: 10/26/10 10:19

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	16		%		11/01/10	11/21/10	CL DLM02.0
35822-46-9	1,2,3,4,6,7,8-Heptachlorodibenzodioxin	550		ng/kg dry	5.2	11/01/10	11/21/10	CL DLM02.0
67562-39-4	1,2,3,4,6,7,8-Heptachlorodibenzofuran	110		ng/kg dry	5.2	11/01/10	11/21/10	CL DLM02.0
55673-89-7	1,2,3,4,7,8,9-Heptachlorodibenzofuran	8.3		ng/kg dry	5.2	11/01/10	11/21/10	CL DLM02.0
39227-28-6	1,2,3,4,7,8-Hexachlorodibenzodioxin	5.1	J, CLP01	ng/kg dry	5.2	11/01/10	11/21/10	CL DLM02.0
70648-26-9	1,2,3,4,7,8-Hexachlorodibenzofuran	11		ng/kg dry	5.2	11/01/10	11/21/10	CL DLM02.0
57653-85-7	1,2,3,6,7,8-Hexachlorodibenzodioxin	15		ng/kg dry	5.2	11/01/10	11/21/10	CL DLM02.0
57117-44-9	1,2,3,6,7,8-Hexachlorodibenzofuran	4.0	J, CLP01	ng/kg dry	5.2	11/01/10	11/21/10	CL DLM02.0
19408-74-3	1,2,3,7,8,9-Hexachlorodibenzodioxin	9.5		ng/kg dry	5.2	11/01/10	11/21/10	CL DLM02.0
72918-21-9	1,2,3,7,8,9-Hexachlorodibenzofuran	2.3	J, CLP01	ng/kg dry	5.2	11/01/10	11/21/10	CL DLM02.0
40321-76-4	1,2,3,7,8-Pentachlorodibenzodioxin	2.5	J, CLP01	ng/kg dry	5.2	11/01/10	11/21/10	CL DLM02.0
57117-41-6	1,2,3,7,8-Pentachlorodibenzofuran	1.1	U, CLP18	ng/kg dry	5.2	11/01/10	11/21/10	CL DLM02.0
60851-34-5	2,3,4,6,7,8-Hexachlorodibenzofuran	5.8		ng/kg dry	5.2	11/01/10	11/21/10	CL DLM02.0
57117-31-4	2,3,4,7,8-Pentachlorodibenzofuran	3.6	J, CLP01	ng/kg dry	5.2	11/01/10	11/21/10	CL DLM02.0
1746-01-6	2,3,7,8-Tetrachlorodibenzodioxin	0.39	U, R, CLP27	ng/kg dry	1.0	11/01/10	11/21/10	CL DLM02.0
51207-31-9	2,3,7,8-Tetrachlorodibenzofuran	0.83	J, CLP01, CLP10	ng/kg dry	1.0	11/01/10	11/21/10	CL DLM02.0
37871-00-4	Heptachlorodibenzodioxin (Total)	1800	J, Q-3	ng/kg dry	5.2	11/01/10	11/21/10	CL DLM02.0
38998-75-3	Heptachlorodibenzofuran (Total)	500	J, Q-3	ng/kg dry	5.2	11/01/10	11/21/10	CL DLM02.0
34465-46-8	Hexachlorodibenzodioxin (Total)	130	J, Q-3	ng/kg dry	5.2	11/01/10	11/21/10	CL DLM02.0
55684-94-1	Hexachlorodibenzofuran (Total)	130	J, Q-3	ng/kg dry	5.2	11/01/10	11/21/10	CL DLM02.0
3268-87-9	Octachlorodibenzodioxin	6800	J, CLP02	ng/kg dry	10	11/01/10	11/21/10	CL DLM02.0
39001-02-0	Octachlorodibenzofuran	410		ng/kg dry	10	11/01/10	11/21/10	CL DLM02.0
36088-22-9	Pentachlorodibenzodioxin (Total)	23	J, Q-3	ng/kg dry	5.2	11/01/10	11/21/10	CL DLM02.0
30402-15-4	Pentachlorodibenzofuran (Total)	32	J, Q-3	ng/kg dry	5.2	11/01/10	11/21/10	CL DLM02.0
R4-0428	TEQ (Avian Toxic. Equiv. Value, WHO TEQ-98)	14	J, D-5	ng/kg dry	14	11/01/10	11/21/10	CL DLM02.0
R4-0429	TEQ (Fish Toxic. Equiv. Value, WHO TEQ-98)	12	J, D-5	ng/kg dry	12	11/01/10	11/21/10	CL DLM02.0
R4-0430	TEQ (Mammalian Toxic. Equiv. Value, WHO TEQ-2005)	18	J, D-5	ng/kg dry	18	11/01/10	11/21/10	CL DLM02.0
41903-57-5	Tetrachlorodibenzodioxin (Total)	2.6	J, Q-3	ng/kg dry	1.0	11/01/10	11/21/10	CL DLM02.0



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D.A.R.T. Id: 11-0019

Project: 11-0019, Tronox Inc - Reported by Jeffrey Hendel

Dioxin

Project: 11-0019, Tronox Inc

Contract Lab Case: 40729

Sample ID: 12131ASF

Lab ID: C104703-01

MD No:

Station ID: 12131

Matrix: Surface Soil

D No: SGS

Date Collected: 10/26/10 10:19

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
30402-14-3	Tetrachlorodibenzofuran (Total)	7.1	J, Q-3	ng/kg dry	1.0	11/01/10	11/21/10	CL DLM02.0



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D.A.R.T. Id: 11-0019

Project: 11-0019, Tronox Inc - Reported by Jeffrey Hendel

Dioxin

Project: 11-0019, Tronox Inc

Contract Lab Case: 40729

Sample ID: 12323ASF

Lab ID: C104703-02

MD No:

Station ID: 12323

Matrix: Surface Soil

D No: SGS

Date Collected: 10/26/10 13:10

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	14		%		11/01/10	11/21/10	CL DLM02.0
35822-46-9	1,2,3,4,6,7,8-Heptachlorodibenzodioxin	920		ng/kg dry	5.1	11/01/10	11/21/10	CL DLM02.0
67562-39-4	1,2,3,4,6,7,8-Heptachlorodibenzofuran	220		ng/kg dry	5.1	11/01/10	11/21/10	CL DLM02.0
55673-89-7	1,2,3,4,7,8,9-Heptachlorodibenzofuran	14		ng/kg dry	5.1	11/01/10	11/21/10	CL DLM02.0
39227-28-6	1,2,3,4,7,8-Hexachlorodibenzodioxin	7.8		ng/kg dry	5.1	11/01/10	11/21/10	CL DLM02.0
70648-26-9	1,2,3,4,7,8-Hexachlorodibenzofuran	17		ng/kg dry	5.1	11/01/10	11/21/10	CL DLM02.0
57653-85-7	1,2,3,6,7,8-Hexachlorodibenzodioxin	26		ng/kg dry	5.1	11/01/10	11/21/10	CL DLM02.0
57117-44-9	1,2,3,6,7,8-Hexachlorodibenzofuran	7.1		ng/kg dry	5.1	11/01/10	11/21/10	CL DLM02.0
19408-74-3	1,2,3,7,8,9-Hexachlorodibenzodioxin	15		ng/kg dry	5.1	11/01/10	11/21/10	CL DLM02.0
72918-21-9	1,2,3,7,8,9-Hexachlorodibenzofuran	4.6	J, CLP01	ng/kg dry	5.1	11/01/10	11/21/10	CL DLM02.0
40321-76-4	1,2,3,7,8-Pentachlorodibenzodioxin	2.8	J, CLP01	ng/kg dry	5.1	11/01/10	11/21/10	CL DLM02.0
57117-41-6	1,2,3,7,8-Pentachlorodibenzofuran	2.0	J, CLP01	ng/kg dry	5.1	11/01/10	11/21/10	CL DLM02.0
60851-34-5	2,3,4,6,7,8-Hexachlorodibenzofuran	10		ng/kg dry	5.1	11/01/10	11/21/10	CL DLM02.0
57117-31-4	2,3,4,7,8-Pentachlorodibenzofuran	5.4		ng/kg dry	5.1	11/01/10	11/21/10	CL DLM02.0
1746-01-6	2,3,7,8-Tetrachlorodibenzodioxin	0.61	U, R, CLP27	ng/kg dry	1.0	11/01/10	11/21/10	CL DLM02.0
51207-31-9	2,3,7,8-Tetrachlorodibenzofuran	2.4	CLP24	ng/kg dry	1.0	11/01/10	11/21/10	CL DLM02.0
37871-00-4	Heptachlorodibenzodioxin (Total)	3000	J, Q-3	ng/kg dry	5.1	11/01/10	11/21/10	CL DLM02.0
38998-75-3	Heptachlorodibenzofuran (Total)	900	J, Q-3	ng/kg dry	5.1	11/01/10	11/21/10	CL DLM02.0
34465-46-8	Hexachlorodibenzodioxin (Total)	240	J, Q-3	ng/kg dry	5.1	11/01/10	11/21/10	CL DLM02.0
55684-94-1	Hexachlorodibenzofuran (Total)	230	J, Q-3	ng/kg dry	5.1	11/01/10	11/21/10	CL DLM02.0
3268-87-9	Octachlorodibenzodioxin	9900	J, CLP02	ng/kg dry	10	11/01/10	11/21/10	CL DLM02.0
39001-02-0	Octachlorodibenzofuran	560		ng/kg dry	10	11/01/10	11/21/10	CL DLM02.0
36088-22-9	Pentachlorodibenzodioxin (Total)	45	J, Q-3	ng/kg dry	5.1	11/01/10	11/21/10	CL DLM02.0
30402-15-4	Pentachlorodibenzofuran (Total)	52	J, Q-3	ng/kg dry	5.1	11/01/10	11/21/10	CL DLM02.0
R4-0428	TEQ (Avian Toxic. Equiv. Value, WHO TEQ-98)	22	J, D-5	ng/kg dry	22	11/01/10	11/21/10	CL DLM02.0
R4-0429	TEQ (Fish Toxic. Equiv. Value, WHO TEQ-98)	19	J, D-5	ng/kg dry	19	11/01/10	11/21/10	CL DLM02.0
R4-0430	TEQ (Mammalian Toxic. Equiv. Value, WHO TEQ-2005)	29	J, D-5	ng/kg dry	29	11/01/10	11/21/10	CL DLM02.0
41903-57-5	Tetrachlorodibenzodioxin (Total)	12	J, Q-3	ng/kg dry	1.0	11/01/10	11/21/10	CL DLM02.0



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0019

Project: 11-0019, Tronox Inc - Reported by Jeffrey Hendel

Dioxin

Project: 11-0019, Tronox Inc

Contract Lab Case: 40729

Sample ID: 12323ASF

Lab ID: C104703-02

MD No:

Station ID: 12323

Matrix: Surface Soil

D No: SGS

Date Collected: 10/26/10 13:10

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
30402-14-3	Tetrachlorodibenzofuran (Total)	17	J, Q-3	ng/kg dry	1.0	11/01/10	11/21/10	CL DLM02.0



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D.A.R.T. Id: 11-0019

Project: 11-0019, Tronox Inc - Reported by Jeffrey Hendel

Dioxin

Project: 11-0019, Tronox Inc

Contract Lab Case: 40729

Sample ID: 12324ASF

Lab ID: C104703-03

MD No:

Station ID: 12324

Matrix: Surface Soil

D No: SGS

Date Collected: 10/26/10 13:32

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	15		%		11/01/10	11/21/10	CL DLM02.0
35822-46-9	1,2,3,4,6,7,8-Heptachlorodibenzodioxin	1700		ng/kg dry	5.5	11/01/10	11/21/10	CL DLM02.0
67562-39-4	1,2,3,4,6,7,8-Heptachlorodibenzofuran	280		ng/kg dry	5.5	11/01/10	11/21/10	CL DLM02.0
55673-89-7	1,2,3,4,7,8,9-Heptachlorodibenzofuran	23		ng/kg dry	5.5	11/01/10	11/21/10	CL DLM02.0
39227-28-6	1,2,3,4,7,8-Hexachlorodibenzodioxin	11	U, CLP18	ng/kg dry	5.5	11/01/10	11/21/10	CL DLM02.0
70648-26-9	1,2,3,4,7,8-Hexachlorodibenzofuran	34		ng/kg dry	5.5	11/01/10	11/21/10	CL DLM02.0
57653-85-7	1,2,3,6,7,8-Hexachlorodibenzodioxin	48		ng/kg dry	5.5	11/01/10	11/21/10	CL DLM02.0
57117-44-9	1,2,3,6,7,8-Hexachlorodibenzofuran	12		ng/kg dry	5.5	11/01/10	11/21/10	CL DLM02.0
19408-74-3	1,2,3,7,8,9-Hexachlorodibenzodioxin	26		ng/kg dry	5.5	11/01/10	11/21/10	CL DLM02.0
72918-21-9	1,2,3,7,8,9-Hexachlorodibenzofuran	10		ng/kg dry	5.5	11/01/10	11/21/10	CL DLM02.0
40321-76-4	1,2,3,7,8-Pentachlorodibenzodioxin	3.9	J, CLP01	ng/kg dry	5.5	11/01/10	11/21/10	CL DLM02.0
57117-41-6	1,2,3,7,8-Pentachlorodibenzofuran	3.3	J, CLP01	ng/kg dry	5.5	11/01/10	11/21/10	CL DLM02.0
60851-34-5	2,3,4,6,7,8-Hexachlorodibenzofuran	16		ng/kg dry	5.5	11/01/10	11/21/10	CL DLM02.0
57117-31-4	2,3,4,7,8-Pentachlorodibenzofuran	10		ng/kg dry	5.5	11/01/10	11/21/10	CL DLM02.0
1746-01-6	2,3,7,8-Tetrachlorodibenzodioxin	0.60	U, R, CLP27	ng/kg dry	1.1	11/01/10	11/21/10	CL DLM02.0
51207-31-9	2,3,7,8-Tetrachlorodibenzofuran	1.8	CLP10	ng/kg dry	1.1	11/01/10	11/21/10	CL DLM02.0
37871-00-4	Heptachlorodibenzodioxin (Total)	6500	J, Q-3	ng/kg dry	5.5	11/01/10	11/21/10	CL DLM02.0
38998-75-3	Heptachlorodibenzofuran (Total)	1200	J, Q-3	ng/kg dry	5.5	11/01/10	11/21/10	CL DLM02.0
34465-46-8	Hexachlorodibenzodioxin (Total)	410	J, Q-3	ng/kg dry	5.5	11/01/10	11/21/10	CL DLM02.0
55684-94-1	Hexachlorodibenzofuran (Total)	390	J, Q-3	ng/kg dry	5.5	11/01/10	11/21/10	CL DLM02.0
3268-87-9	Octachlorodibenzodioxin	21000	J, CLP02	ng/kg dry	11	11/01/10	11/21/10	CL DLM02.0
39001-02-0	Octachlorodibenzofuran	570		ng/kg dry	11	11/01/10	11/21/10	CL DLM02.0
36088-22-9	Pentachlorodibenzodioxin (Total)	56	J, Q-3	ng/kg dry	5.5	11/01/10	11/21/10	CL DLM02.0
30402-15-4	Pentachlorodibenzofuran (Total)	80	J, Q-3	ng/kg dry	5.5	11/01/10	11/21/10	CL DLM02.0
R4-0428	TEQ (Avian Toxic. Equiv. Value, WHO TEQ-98)	35	J, D-5	ng/kg dry	35	11/01/10	11/21/10	CL DLM02.0
R4-0429	TEQ (Fish Toxic. Equiv. Value, WHO TEQ-98)	30	J, D-5	ng/kg dry	30	11/01/10	11/21/10	CL DLM02.0
R4-0430	TEQ (Mammalian Toxic. Equiv. Value, WHO TEQ-2005)	50	J, D-5	ng/kg dry	50	11/01/10	11/21/10	CL DLM02.0
41903-57-5	Tetrachlorodibenzodioxin (Total)	13	J, Q-3	ng/kg dry	1.1	11/01/10	11/21/10	CL DLM02.0



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0019

Project: 11-0019, Tronox Inc - Reported by Jeffrey Hendel

Dioxin

Project: 11-0019, Tronox Inc

Contract Lab Case: 40729

Sample ID: 12324ASF

Lab ID: C104703-03

MD No:

Station ID: 12324

Matrix: Surface Soil

D No: SGS

Date Collected: 10/26/10 13:32

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
30402-14-3	Tetrachlorodibenzofuran (Total)	20	J, Q-3	ng/kg dry	1.1	11/01/10	11/21/10	CL DLM02.0



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D.A.R.T. Id: 11-0019

Project: 11-0019, Tronox Inc - Reported by Jeffrey Hendel

Dioxin

Project: 11-0019, Tronox Inc

Contract Lab Case: 40729

Sample ID: 12462ASF

Lab ID: C104703-04

MD No:

Station ID: 12462A

Matrix: Surface Soil

D No: SGS

Date Collected: 10/26/10 11:07

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	20		%		11/01/10	11/21/10	CL DLM02.0
35822-46-9	1,2,3,4,6,7,8-Heptachlorodibenzodioxin	1700		ng/kg dry	5.7	11/01/10	11/21/10	CL DLM02.0
67562-39-4	1,2,3,4,6,7,8-Heptachlorodibenzofuran	360		ng/kg dry	5.7	11/01/10	11/21/10	CL DLM02.0
55673-89-7	1,2,3,4,7,8,9-Heptachlorodibenzofuran	20		ng/kg dry	5.7	11/01/10	11/21/10	CL DLM02.0
39227-28-6	1,2,3,4,7,8-Hexachlorodibenzodioxin	16		ng/kg dry	5.7	11/01/10	11/21/10	CL DLM02.0
70648-26-9	1,2,3,4,7,8-Hexachlorodibenzofuran	33		ng/kg dry	5.7	11/01/10	11/21/10	CL DLM02.0
57653-85-7	1,2,3,6,7,8-Hexachlorodibenzodioxin	78		ng/kg dry	5.7	11/01/10	11/21/10	CL DLM02.0
57117-44-9	1,2,3,6,7,8-Hexachlorodibenzofuran	13		ng/kg dry	5.7	11/01/10	11/21/10	CL DLM02.0
19408-74-3	1,2,3,7,8,9-Hexachlorodibenzodioxin	50		ng/kg dry	5.7	11/01/10	11/21/10	CL DLM02.0
72918-21-9	1,2,3,7,8,9-Hexachlorodibenzofuran	5.8		ng/kg dry	5.7	11/01/10	11/21/10	CL DLM02.0
40321-76-4	1,2,3,7,8-Pentachlorodibenzodioxin	7.6		ng/kg dry	5.7	11/01/10	11/21/10	CL DLM02.0
57117-41-6	1,2,3,7,8-Pentachlorodibenzofuran	2.8	J, CLP01	ng/kg dry	5.7	11/01/10	11/21/10	CL DLM02.0
60851-34-5	2,3,4,6,7,8-Hexachlorodibenzofuran	16		ng/kg dry	5.7	11/01/10	11/21/10	CL DLM02.0
57117-31-4	2,3,4,7,8-Pentachlorodibenzofuran	6.0		ng/kg dry	5.7	11/01/10	11/21/10	CL DLM02.0
1746-01-6	2,3,7,8-Tetrachlorodibenzodioxin	0.62	U, R, CLP27	ng/kg dry	1.1	11/01/10	11/21/10	CL DLM02.0
51207-31-9	2,3,7,8-Tetrachlorodibenzofuran	0.90	U, CLP18	ng/kg dry	1.1	11/01/10	11/21/10	CL DLM02.0
37871-00-4	Heptachlorodibenzodioxin (Total)	5000	J, Q-3	ng/kg dry	5.7	11/01/10	11/21/10	CL DLM02.0
38998-75-3	Heptachlorodibenzofuran (Total)	1300	J, Q-3	ng/kg dry	5.7	11/01/10	11/21/10	CL DLM02.0
34465-46-8	Hexachlorodibenzodioxin (Total)	650	J, Q-3	ng/kg dry	5.7	11/01/10	11/21/10	CL DLM02.0
55684-94-1	Hexachlorodibenzofuran (Total)	360	J, Q-3	ng/kg dry	5.7	11/01/10	11/21/10	CL DLM02.0
3268-87-9	Octachlorodibenzodioxin	15000	J, CLP02	ng/kg dry	11	11/01/10	11/21/10	CL DLM02.0
39001-02-0	Octachlorodibenzofuran	740		ng/kg dry	11	11/01/10	11/21/10	CL DLM02.0
36088-22-9	Pentachlorodibenzodioxin (Total)	120	J, Q-3	ng/kg dry	5.7	11/01/10	11/21/10	CL DLM02.0
30402-15-4	Pentachlorodibenzofuran (Total)	70	J, Q-3	ng/kg dry	5.7	11/01/10	11/21/10	CL DLM02.0
R4-0428	TEQ (Avian Toxic. Equiv. Value, WHO TEQ-98)	36		ng/kg dry	36	11/01/10	11/21/10	CL DLM02.0
R4-0429	TEQ (Fish Toxic. Equiv. Value, WHO TEQ-98)	35		ng/kg dry	35	11/01/10	11/21/10	CL DLM02.0
R4-0430	TEQ (Mammalian Toxic. Equiv. Value, WHO TEQ-2005)	57		ng/kg dry	57	11/01/10	11/21/10	CL DLM02.0
41903-57-5	Tetrachlorodibenzodioxin (Total)	12	J, Q-3	ng/kg dry	1.1	11/01/10	11/21/10	CL DLM02.0



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0019

Project: 11-0019, Tronox Inc - Reported by Jeffrey Hendel

Dioxin

Project: 11-0019, Tronox Inc

Contract Lab Case: 40729

Sample ID: 12462ASF

Lab ID: C104703-04

MD No:

Station ID: 12462A

Matrix: Surface Soil

D No: SGS

Date Collected: 10/26/10 11:07

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
30402-14-3	Tetrachlorodibenzofuran (Total)	8.9	J, Q-3	ng/kg dry	1.1	11/01/10	11/21/10	CL DLM02.0



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D.A.R.T. Id: 11-0019

Project: 11-0019, Tronox Inc - Reported by Jeffrey Hendel

Dioxin

Project: 11-0019, Tronox Inc

Contract Lab Case: 40729

Sample ID: 12462BSF

Lab ID: C104703-05

MD No:

Station ID: 12462B

Matrix: Surface Soil

D No: SGS

Date Collected: 10/26/10 11:28

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	14		%		11/01/10	11/21/10	CL DLM02.0
35822-46-9	1,2,3,4,6,7,8-Heptachlorodibenzodioxin	2900		ng/kg dry	53	11/01/10	11/29/10	CL DLM02.0
67562-39-4	1,2,3,4,6,7,8-Heptachlorodibenzofuran	620		ng/kg dry	5.3	11/01/10	11/21/10	CL DLM02.0
55673-89-7	1,2,3,4,7,8,9-Heptachlorodibenzofuran	45		ng/kg dry	5.3	11/01/10	11/21/10	CL DLM02.0
39227-28-6	1,2,3,4,7,8-Hexachlorodibenzodioxin	19		ng/kg dry	5.3	11/01/10	11/21/10	CL DLM02.0
70648-26-9	1,2,3,4,7,8-Hexachlorodibenzofuran	74		ng/kg dry	5.3	11/01/10	11/21/10	CL DLM02.0
57653-85-7	1,2,3,6,7,8-Hexachlorodibenzodioxin	100		ng/kg dry	5.3	11/01/10	11/21/10	CL DLM02.0
57117-44-9	1,2,3,6,7,8-Hexachlorodibenzofuran	22		ng/kg dry	5.3	11/01/10	11/21/10	CL DLM02.0
19408-74-3	1,2,3,7,8,9-Hexachlorodibenzodioxin	54	U, CLP18	ng/kg dry	5.3	11/01/10	11/21/10	CL DLM02.0
72918-21-9	1,2,3,7,8,9-Hexachlorodibenzofuran	15		ng/kg dry	5.3	11/01/10	11/21/10	CL DLM02.0
40321-76-4	1,2,3,7,8-Pentachlorodibenzodioxin	6.1		ng/kg dry	5.3	11/01/10	11/21/10	CL DLM02.0
57117-41-6	1,2,3,7,8-Pentachlorodibenzofuran	4.1	J, CLP01	ng/kg dry	5.3	11/01/10	11/21/10	CL DLM02.0
60851-34-5	2,3,4,6,7,8-Hexachlorodibenzofuran	27		ng/kg dry	5.3	11/01/10	11/21/10	CL DLM02.0
57117-31-4	2,3,4,7,8-Pentachlorodibenzofuran	16		ng/kg dry	5.3	11/01/10	11/21/10	CL DLM02.0
1746-01-6	2,3,7,8-Tetrachlorodibenzodioxin	0.94	U, R, CLP27	ng/kg dry	1.1	11/01/10	11/21/10	CL DLM02.0
51207-31-9	2,3,7,8-Tetrachlorodibenzofuran	1.7	U, D-4	ng/kg dry	1.1	11/01/10	11/21/10	CL DLM02.0
37871-00-4	Heptachlorodibenzodioxin (Total)	13000	J, Q-3	ng/kg dry	53	11/01/10	11/29/10	CL DLM02.0
38998-75-3	Heptachlorodibenzofuran (Total)	3500	J, Q-3	ng/kg dry	5.3	11/01/10	11/21/10	CL DLM02.0
34465-46-8	Hexachlorodibenzodioxin (Total)	860	J, Q-3	ng/kg dry	5.3	11/01/10	11/21/10	CL DLM02.0
55684-94-1	Hexachlorodibenzofuran (Total)	790	J, Q-3	ng/kg dry	5.3	11/01/10	11/21/10	CL DLM02.0
3268-87-9	Octachlorodibenzodioxin	28000		ng/kg dry	110	11/01/10	11/29/10	CL DLM02.0
39001-02-0	Octachlorodibenzofuran	1900		ng/kg dry	11	11/01/10	11/21/10	CL DLM02.0
36088-22-9	Pentachlorodibenzodioxin (Total)	92	J, Q-3	ng/kg dry	5.3	11/01/10	11/21/10	CL DLM02.0
30402-15-4	Pentachlorodibenzofuran (Total)	100	J, Q-3	ng/kg dry	5.3	11/01/10	11/21/10	CL DLM02.0
R4-0428	TEQ (Avian Toxic. Equiv. Value, WHO TEQ-98)	59		ng/kg dry	59	11/01/10	11/21/10	CL DLM02.0
R4-0429	TEQ (Fish Toxic. Equiv. Value, WHO TEQ-98)	53		ng/kg dry	53	11/01/10	11/21/10	CL DLM02.0
R4-0430	TEQ (Mammalian Toxic. Equiv. Value, WHO TEQ-2005)	88		ng/kg dry	88	11/01/10	11/21/10	CL DLM02.0
41903-57-5	Tetrachlorodibenzodioxin (Total)	12	J, Q-3	ng/kg dry	1.1	11/01/10	11/21/10	CL DLM02.0



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0019

Project: 11-0019, Tronox Inc - Reported by Jeffrey Hendel

Dioxin

Project: 11-0019, Tronox Inc

Contract Lab Case: 40729

Sample ID: 12462BSF

Lab ID: C104703-05

MD No:

Station ID: 12462B

Matrix: Surface Soil

D No: SGS

Date Collected: 10/26/10 11:28

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
30402-14-3	Tetrachlorodibenzofuran (Total)	12	J, Q-3	ng/kg dry	1.1	11/01/10	11/21/10	CL DLM02.0



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0019

Project: 11-0019, Tronox Inc - Reported by Jeffrey Hendel

Dioxin

Project: 11-0019, Tronox Inc

Contract Lab Case: 40729

Sample ID: 12462CSF

Lab ID: C104703-06

MD No:

Station ID: 12462C

Matrix: Surface Soil

D No: SGS

Date Collected: 10/26/10 11:45

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	21		%		11/01/10	11/21/10	CL DLM02.0
35822-46-9	1,2,3,4,6,7,8-Heptachlorodibenzodioxin	320		ng/kg dry	4.9	11/01/10	11/21/10	CL DLM02.0
67562-39-4	1,2,3,4,6,7,8-Heptachlorodibenzofuran	420		ng/kg dry	4.9	11/01/10	11/21/10	CL DLM02.0
55673-89-7	1,2,3,4,7,8,9-Heptachlorodibenzofuran	11		ng/kg dry	4.9	11/01/10	11/21/10	CL DLM02.0
39227-28-6	1,2,3,4,7,8-Hexachlorodibenzodioxin	3.0	J, CLP01	ng/kg dry	4.9	11/01/10	11/21/10	CL DLM02.0
70648-26-9	1,2,3,4,7,8-Hexachlorodibenzofuran	26		ng/kg dry	4.9	11/01/10	11/21/10	CL DLM02.0
57653-85-7	1,2,3,6,7,8-Hexachlorodibenzodioxin	31		ng/kg dry	4.9	11/01/10	11/21/10	CL DLM02.0
57117-44-9	1,2,3,6,7,8-Hexachlorodibenzofuran	11		ng/kg dry	4.9	11/01/10	11/21/10	CL DLM02.0
19408-74-3	1,2,3,7,8,9-Hexachlorodibenzodioxin	19		ng/kg dry	4.9	11/01/10	11/21/10	CL DLM02.0
72918-21-9	1,2,3,7,8,9-Hexachlorodibenzofuran	1.4	U, CLP18	ng/kg dry	4.9	11/01/10	11/21/10	CL DLM02.0
40321-76-4	1,2,3,7,8-Pentachlorodibenzodioxin	2.8	J, CLP01	ng/kg dry	4.9	11/01/10	11/21/10	CL DLM02.0
57117-41-6	1,2,3,7,8-Pentachlorodibenzofuran	1.4	J, CLP01	ng/kg dry	4.9	11/01/10	11/21/10	CL DLM02.0
60851-34-5	2,3,4,6,7,8-Hexachlorodibenzofuran	11		ng/kg dry	4.9	11/01/10	11/21/10	CL DLM02.0
57117-31-4	2,3,4,7,8-Pentachlorodibenzofuran	3.4	J, CLP01	ng/kg dry	4.9	11/01/10	11/21/10	CL DLM02.0
1746-01-6	2,3,7,8-Tetrachlorodibenzodioxin	0.38	U, R, CLP27	ng/kg dry	0.99	11/01/10	11/21/10	CL DLM02.0
51207-31-9	2,3,7,8-Tetrachlorodibenzofuran	0.88	U, CLP18	ng/kg dry	0.99	11/01/10	11/21/10	CL DLM02.0
37871-00-4	Heptachlorodibenzodioxin (Total)	940	J, Q-3	ng/kg dry	4.9	11/01/10	11/21/10	CL DLM02.0
38998-75-3	Heptachlorodibenzofuran (Total)	920	J, Q-3	ng/kg dry	4.9	11/01/10	11/21/10	CL DLM02.0
34465-46-8	Hexachlorodibenzodioxin (Total)	220	J, Q-3	ng/kg dry	4.9	11/01/10	11/21/10	CL DLM02.0
55684-94-1	Hexachlorodibenzofuran (Total)	220	J, Q-3	ng/kg dry	4.9	11/01/10	11/21/10	CL DLM02.0
3268-87-9	Octachlorodibenzodioxin	2800		ng/kg dry	9.9	11/01/10	11/21/10	CL DLM02.0
39001-02-0	Octachlorodibenzofuran	230		ng/kg dry	9.9	11/01/10	11/21/10	CL DLM02.0
36088-22-9	Pentachlorodibenzodioxin (Total)	46	J, Q-3	ng/kg dry	4.9	11/01/10	11/21/10	CL DLM02.0
30402-15-4	Pentachlorodibenzofuran (Total)	36	J, Q-3	ng/kg dry	4.9	11/01/10	11/21/10	CL DLM02.0
R4-0428	TEQ (Avian Toxic. Equiv. Value, WHO TEQ-98)	20	J, D-5	ng/kg dry	20	11/01/10	11/21/10	CL DLM02.0
R4-0429	TEQ (Fish Toxic. Equiv. Value, WHO TEQ-98)	17	J, D-5	ng/kg dry	17	11/01/10	11/21/10	CL DLM02.0
R4-0430	TEQ (Mammalian Toxic. Equiv. Value, WHO TEQ-2005)	23	J, D-5	ng/kg dry	23	11/01/10	11/21/10	CL DLM02.0
41903-57-5	Tetrachlorodibenzodioxin (Total)	5.8	J, Q-3	ng/kg dry	0.99	11/01/10	11/21/10	CL DLM02.0



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0019

Project: 11-0019, Tronox Inc - Reported by Jeffrey Hendel

Dioxin

Project: 11-0019, Tronox Inc

Contract Lab Case: 40729

Sample ID: 12462CSF

Lab ID: C104703-06

MD No:

Station ID: 12462C

Matrix: Surface Soil

D No: SGS

Date Collected: 10/26/10 11:45

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
30402-14-3	Tetrachlorodibenzofuran (Total)	4.3	J, Q-3	ng/kg dry	0.99	11/01/10	11/21/10	CL DLM02.0



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Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0019

Project: 11-0019, Tronox Inc - Reported by Jeffrey Hendel

Dioxin

Project: 11-0019, Tronox Inc

Contract Lab Case: 40729

Sample ID: 12462CSFX

Lab ID: C104703-07

MD No:

Station ID: 12462C

Matrix: Surface Soil

D No: SGS

Date Collected: 10/26/10 11:45

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	13		%		11/01/10	11/21/10	CL DLM02.0
35822-46-9	1,2,3,4,6,7,8-Heptachlorodibenzodioxin	290		ng/kg dry	5.3	11/01/10	11/21/10	CL DLM02.0
67562-39-4	1,2,3,4,6,7,8-Heptachlorodibenzofuran	380		ng/kg dry	5.3	11/01/10	11/21/10	CL DLM02.0
55673-89-7	1,2,3,4,7,8,9-Heptachlorodibenzofuran	10		ng/kg dry	5.3	11/01/10	11/21/10	CL DLM02.0
39227-28-6	1,2,3,4,7,8-Hexachlorodibenzodioxin	3.2	J, CLP01	ng/kg dry	5.3	11/01/10	11/21/10	CL DLM02.0
70648-26-9	1,2,3,4,7,8-Hexachlorodibenzofuran	26		ng/kg dry	5.3	11/01/10	11/21/10	CL DLM02.0
57653-85-7	1,2,3,6,7,8-Hexachlorodibenzodioxin	28		ng/kg dry	5.3	11/01/10	11/21/10	CL DLM02.0
57117-44-9	1,2,3,6,7,8-Hexachlorodibenzofuran	11		ng/kg dry	5.3	11/01/10	11/21/10	CL DLM02.0
19408-74-3	1,2,3,7,8,9-Hexachlorodibenzodioxin	18		ng/kg dry	5.3	11/01/10	11/21/10	CL DLM02.0
72918-21-9	1,2,3,7,8,9-Hexachlorodibenzofuran	2.9	J, CLP01	ng/kg dry	5.3	11/01/10	11/21/10	CL DLM02.0
40321-76-4	1,2,3,7,8-Pentachlorodibenzodioxin	3.0	J, CLP01	ng/kg dry	5.3	11/01/10	11/21/10	CL DLM02.0
57117-41-6	1,2,3,7,8-Pentachlorodibenzofuran	1.3	J, CLP01	ng/kg dry	5.3	11/01/10	11/21/10	CL DLM02.0
60851-34-5	2,3,4,6,7,8-Hexachlorodibenzofuran	12		ng/kg dry	5.3	11/01/10	11/21/10	CL DLM02.0
57117-31-4	2,3,4,7,8-Pentachlorodibenzofuran	3.0	J, CLP01	ng/kg dry	5.3	11/01/10	11/21/10	CL DLM02.0
1746-01-6	2,3,7,8-Tetrachlorodibenzodioxin	0.39	U, R, CLP27	ng/kg dry	1.1	11/01/10	11/21/10	CL DLM02.0
51207-31-9	2,3,7,8-Tetrachlorodibenzofuran	0.90	J, CLP01, CLP24	ng/kg dry	1.1	11/01/10	11/21/10	CL DLM02.0
37871-00-4	Heptachlorodibenzodioxin (Total)	850	J, Q-3	ng/kg dry	5.3	11/01/10	11/21/10	CL DLM02.0
38998-75-3	Heptachlorodibenzofuran (Total)	850	J, Q-3	ng/kg dry	5.3	11/01/10	11/21/10	CL DLM02.0
34465-46-8	Hexachlorodibenzodioxin (Total)	200	J, Q-3	ng/kg dry	5.3	11/01/10	11/21/10	CL DLM02.0
55684-94-1	Hexachlorodibenzofuran (Total)	240	J, Q-3	ng/kg dry	5.3	11/01/10	11/21/10	CL DLM02.0
3268-87-9	Octachlorodibenzodioxin	2700		ng/kg dry	11	11/01/10	11/21/10	CL DLM02.0
39001-02-0	Octachlorodibenzofuran	210		ng/kg dry	11	11/01/10	11/21/10	CL DLM02.0
36088-22-9	Pentachlorodibenzodioxin (Total)	37	J, Q-3	ng/kg dry	5.3	11/01/10	11/21/10	CL DLM02.0
30402-15-4	Pentachlorodibenzofuran (Total)	36	J, Q-3	ng/kg dry	5.3	11/01/10	11/21/10	CL DLM02.0
R4-0428	TEQ (Avian Toxic. Equiv. Value, WHO TEQ-98)	19	J, D-5	ng/kg dry	19	11/01/10	11/21/10	CL DLM02.0
R4-0429	TEQ (Fish Toxic. Equiv. Value, WHO TEQ-98)	17	J, D-5	ng/kg dry	17	11/01/10	11/21/10	CL DLM02.0
R4-0430	TEQ (Mammalian Toxic. Equiv. Value, WHO TEQ-2005)	22	J, D-5	ng/kg dry	22	11/01/10	11/21/10	CL DLM02.0
41903-57-5	Tetrachlorodibenzodioxin (Total)	4.8	J, Q-3	ng/kg dry	1.1	11/01/10	11/21/10	CL DLM02.0



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0019

Project: 11-0019, Tronox Inc - Reported by Jeffrey Hendel

Dioxin

Project: 11-0019, Tronox Inc

Contract Lab Case: 40729

Sample ID: 12462CSFX

Lab ID: C104703-07

MD No:

Station ID: 12462C

Matrix: Surface Soil

D No: SGS

Date Collected: 10/26/10 11:45

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
30402-14-3	Tetrachlorodibenzofuran (Total)	4.7	J, Q-3	ng/kg dry	1.1	11/01/10	11/21/10	CL DLM02.0



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Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0019

Project: 11-0019, Tronox Inc - Reported by Jeffrey Hendel

Dioxin

Project: 11-0019, Tronox Inc

Contract Lab Case: 40729

Sample ID: 12470ASF

Lab ID: C104703-08

MD No:

Station ID: 12470

Matrix: Surface Soil

D No: SGS

Date Collected: 10/26/10 14:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	10		%		11/01/10	11/21/10	CL DLM02.0
35822-46-9	1,2,3,4,6,7,8-Heptachlorodibenzodioxin	5600		ng/kg dry	49	11/01/10	11/29/10	CL DLM02.0
67562-39-4	1,2,3,4,6,7,8-Heptachlorodibenzofuran	610		ng/kg dry	4.9	11/01/10	11/21/10	CL DLM02.0
55673-89-7	1,2,3,4,7,8,9-Heptachlorodibenzofuran	44		ng/kg dry	4.9	11/01/10	11/21/10	CL DLM02.0
39227-28-6	1,2,3,4,7,8-Hexachlorodibenzodioxin	15	U, CLP18	ng/kg dry	4.9	11/01/10	11/21/10	CL DLM02.0
70648-26-9	1,2,3,4,7,8-Hexachlorodibenzofuran	28		ng/kg dry	4.9	11/01/10	11/21/10	CL DLM02.0
57653-85-7	1,2,3,6,7,8-Hexachlorodibenzodioxin	87		ng/kg dry	4.9	11/01/10	11/21/10	CL DLM02.0
57117-44-9	1,2,3,6,7,8-Hexachlorodibenzofuran	8.1		ng/kg dry	4.9	11/01/10	11/21/10	CL DLM02.0
19408-74-3	1,2,3,7,8,9-Hexachlorodibenzodioxin	32		ng/kg dry	4.9	11/01/10	11/21/10	CL DLM02.0
72918-21-9	1,2,3,7,8,9-Hexachlorodibenzofuran	9.1		ng/kg dry	4.9	11/01/10	11/21/10	CL DLM02.0
40321-76-4	1,2,3,7,8-Pentachlorodibenzodioxin	3.8	U, CLP18	ng/kg dry	4.9	11/01/10	11/21/10	CL DLM02.0
57117-41-6	1,2,3,7,8-Pentachlorodibenzofuran	1.6	J, CLP01	ng/kg dry	4.9	11/01/10	11/21/10	CL DLM02.0
60851-34-5	2,3,4,6,7,8-Hexachlorodibenzofuran	14		ng/kg dry	4.9	11/01/10	11/21/10	CL DLM02.0
57117-31-4	2,3,4,7,8-Pentachlorodibenzofuran	5.6		ng/kg dry	4.9	11/01/10	11/21/10	CL DLM02.0
1746-01-6	2,3,7,8-Tetrachlorodibenzodioxin	0.43	U, R, CLP27	ng/kg dry	0.97	11/01/10	11/21/10	CL DLM02.0
51207-31-9	2,3,7,8-Tetrachlorodibenzofuran	0.99	U, CLP18	ng/kg dry	0.97	11/01/10	11/21/10	CL DLM02.0
37871-00-4	Heptachlorodibenzodioxin (Total)	24000	J, Q-3	ng/kg dry	49	11/01/10	11/29/10	CL DLM02.0
38998-75-3	Heptachlorodibenzofuran (Total)	4500	J, Q-3	ng/kg dry	4.9	11/01/10	11/21/10	CL DLM02.0
34465-46-8	Hexachlorodibenzodioxin (Total)	1000	J, Q-3	ng/kg dry	4.9	11/01/10	11/21/10	CL DLM02.0
55684-94-1	Hexachlorodibenzofuran (Total)	570	J, Q-3	ng/kg dry	4.9	11/01/10	11/21/10	CL DLM02.0
3268-87-9	Octachlorodibenzodioxin	62000	J, CLP02	ng/kg dry	97	11/01/10	11/29/10	CL DLM02.0
39001-02-0	Octachlorodibenzofuran	3400		ng/kg dry	9.7	11/01/10	11/21/10	CL DLM02.0
36088-22-9	Pentachlorodibenzodioxin (Total)	79	J, Q-3	ng/kg dry	4.9	11/01/10	11/21/10	CL DLM02.0
30402-15-4	Pentachlorodibenzofuran (Total)	54	J, Q-3	ng/kg dry	4.9	11/01/10	11/21/10	CL DLM02.0
R4-0428	TEQ (Avian Toxic. Equiv. Value, WHO TEQ-98)	40	J, D-5	ng/kg dry	40	11/01/10	11/21/10	CL DLM02.0
R4-0429	TEQ (Fish Toxic. Equiv. Value, WHO TEQ-98)	40	J, D-5	ng/kg dry	40	11/01/10	11/21/10	CL DLM02.0
R4-0430	TEQ (Mammalian Toxic. Equiv. Value, WHO TEQ-2005)	110	J, D-5	ng/kg dry	110	11/01/10	11/21/10	CL DLM02.0
41903-57-5	Tetrachlorodibenzodioxin (Total)	6.0	J, Q-3	ng/kg dry	0.97	11/01/10	11/21/10	CL DLM02.0



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0019

Project: 11-0019, Tronox Inc - Reported by Jeffrey Hendel

Dioxin

Project: 11-0019, Tronox Inc

Contract Lab Case: 40729

Sample ID: 12470ASF

Lab ID: C104703-08

MD No:

Station ID: 12470

Matrix: Surface Soil

D No: SGS

Date Collected: 10/26/10 14:15

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
30402-14-3	Tetrachlorodibenzofuran (Total)	6.6	J, Q-3	ng/kg dry	0.97	11/01/10	11/21/10	CL DLM02.0



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
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D.A.R.T. Id: 11-0019

Project: 11-0019, Tronox Inc - Reported by Jeffrey Hendel

Dioxin

Project: 11-0019, Tronox Inc

Contract Lab Case: 40729

Sample ID: 12484ASF

Lab ID: C104703-09

MD No:

Station ID: 12484

Matrix: Surface Soil

D No: SGS

Date Collected: 10/25/10 17:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	16		%		11/01/10	11/21/10	CL DLM02.0
35822-46-9	1,2,3,4,6,7,8-Heptachlorodibenzodioxin	510		ng/kg dry	4.9	11/01/10	11/21/10	CL DLM02.0
67562-39-4	1,2,3,4,6,7,8-Heptachlorodibenzofuran	130		ng/kg dry	4.9	11/01/10	11/21/10	CL DLM02.0
55673-89-7	1,2,3,4,7,8,9-Heptachlorodibenzofuran	8.6		ng/kg dry	4.9	11/01/10	11/21/10	CL DLM02.0
39227-28-6	1,2,3,4,7,8-Hexachlorodibenzodioxin	4.8	J, CLP01	ng/kg dry	4.9	11/01/10	11/21/10	CL DLM02.0
70648-26-9	1,2,3,4,7,8-Hexachlorodibenzofuran	15		ng/kg dry	4.9	11/01/10	11/21/10	CL DLM02.0
57653-85-7	1,2,3,6,7,8-Hexachlorodibenzodioxin	12		ng/kg dry	4.9	11/01/10	11/21/10	CL DLM02.0
57117-44-9	1,2,3,6,7,8-Hexachlorodibenzofuran	6.0		ng/kg dry	4.9	11/01/10	11/21/10	CL DLM02.0
19408-74-3	1,2,3,7,8,9-Hexachlorodibenzodioxin	9.3		ng/kg dry	4.9	11/01/10	11/21/10	CL DLM02.0
72918-21-9	1,2,3,7,8,9-Hexachlorodibenzofuran	3.0	J, CLP01	ng/kg dry	4.9	11/01/10	11/21/10	CL DLM02.0
40321-76-4	1,2,3,7,8-Pentachlorodibenzodioxin	2.0	J, CLP01	ng/kg dry	4.9	11/01/10	11/21/10	CL DLM02.0
57117-41-6	1,2,3,7,8-Pentachlorodibenzofuran	0.73	J, CLP01	ng/kg dry	4.9	11/01/10	11/21/10	CL DLM02.0
60851-34-5	2,3,4,6,7,8-Hexachlorodibenzofuran	6.2	U, CLP18	ng/kg dry	4.9	11/01/10	11/21/10	CL DLM02.0
57117-31-4	2,3,4,7,8-Pentachlorodibenzofuran	3.3	J, CLP01	ng/kg dry	4.9	11/01/10	11/21/10	CL DLM02.0
1746-01-6	2,3,7,8-Tetrachlorodibenzodioxin	0.33	U, R, CLP27	ng/kg dry	0.97	11/01/10	11/21/10	CL DLM02.0
51207-31-9	2,3,7,8-Tetrachlorodibenzofuran	0.40	U	ng/kg dry	0.97	11/01/10	11/21/10	CL DLM02.0
37871-00-4	Heptachlorodibenzodioxin (Total)	1800	J, Q-3	ng/kg dry	4.9	11/01/10	11/21/10	CL DLM02.0
38998-75-3	Heptachlorodibenzofuran (Total)	490	J, Q-3	ng/kg dry	4.9	11/01/10	11/21/10	CL DLM02.0
34465-46-8	Hexachlorodibenzodioxin (Total)	130	J, Q-3	ng/kg dry	4.9	11/01/10	11/21/10	CL DLM02.0
55684-94-1	Hexachlorodibenzofuran (Total)	130	J, Q-3	ng/kg dry	4.9	11/01/10	11/21/10	CL DLM02.0
3268-87-9	Octachlorodibenzodioxin	6800	J, CLP02	ng/kg dry	9.7	11/01/10	11/21/10	CL DLM02.0
39001-02-0	Octachlorodibenzofuran	310		ng/kg dry	9.7	11/01/10	11/21/10	CL DLM02.0
36088-22-9	Pentachlorodibenzodioxin (Total)	21	J, Q-3	ng/kg dry	4.9	11/01/10	11/21/10	CL DLM02.0
30402-15-4	Pentachlorodibenzofuran (Total)	26	J, Q-3	ng/kg dry	4.9	11/01/10	11/21/10	CL DLM02.0
R4-0428	TEQ (Avian Toxic. Equiv. Value, WHO TEQ-98)	13	J, D-5	ng/kg dry	13	11/01/10	11/21/10	CL DLM02.0
R4-0429	TEQ (Fish Toxic. Equiv. Value, WHO TEQ-98)	12	J, D-5	ng/kg dry	12	11/01/10	11/21/10	CL DLM02.0
R4-0430	TEQ (Mammalian Toxic. Equiv. Value, WHO TEQ-2005)	18	J, D-5	ng/kg dry	18	11/01/10	11/21/10	CL DLM02.0
41903-57-5	Tetrachlorodibenzodioxin (Total)	0.33	U, J, Q-3	ng/kg dry	0.97	11/01/10	11/21/10	CL DLM02.0



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0019

Project: 11-0019, Tronox Inc - Reported by Jeffrey Hendel

Dioxin

Project: 11-0019, Tronox Inc

Contract Lab Case: 40729

Sample ID: 12484ASF

Lab ID: C104703-09

MD No:

Station ID: 12484

Matrix: Surface Soil

D No: SGS

Date Collected: 10/25/10 17:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
30402-14-3	Tetrachlorodibenzofuran (Total)	2.9	J, Q-3	ng/kg dry	0.97	11/01/10	11/21/10	CL DLM02.0



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D.A.R.T. Id: 11-0019

Project: 11-0019, Tronox Inc - Reported by Jeffrey Hendel

Dioxin

Project: 11-0019, Tronox Inc

Contract Lab Case: 40729

Sample ID: 12486ASF

Lab ID: C104703-10

MD No:

Station ID: 12486

Matrix: Surface Soil

D No: SGS

Date Collected: 10/25/10 16:35

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	16		%		11/01/10	11/21/10	CL DLM02.0
35822-46-9	1,2,3,4,6,7,8-Heptachlorodibenzodioxin	1800		ng/kg dry	4.9	11/01/10	11/21/10	CL DLM02.0
67562-39-4	1,2,3,4,6,7,8-Heptachlorodibenzofuran	330		ng/kg dry	4.9	11/01/10	11/21/10	CL DLM02.0
55673-89-7	1,2,3,4,7,8,9-Heptachlorodibenzofuran	25		ng/kg dry	4.9	11/01/10	11/21/10	CL DLM02.0
39227-28-6	1,2,3,4,7,8-Hexachlorodibenzodioxin	10		ng/kg dry	4.9	11/01/10	11/21/10	CL DLM02.0
70648-26-9	1,2,3,4,7,8-Hexachlorodibenzofuran	37		ng/kg dry	4.9	11/01/10	11/21/10	CL DLM02.0
57653-85-7	1,2,3,6,7,8-Hexachlorodibenzodioxin	39		ng/kg dry	4.9	11/01/10	11/21/10	CL DLM02.0
57117-44-9	1,2,3,6,7,8-Hexachlorodibenzofuran	12		ng/kg dry	4.9	11/01/10	11/21/10	CL DLM02.0
19408-74-3	1,2,3,7,8,9-Hexachlorodibenzodioxin	20		ng/kg dry	4.9	11/01/10	11/21/10	CL DLM02.0
72918-21-9	1,2,3,7,8,9-Hexachlorodibenzofuran	8.6		ng/kg dry	4.9	11/01/10	11/21/10	CL DLM02.0
40321-76-4	1,2,3,7,8-Pentachlorodibenzodioxin	3.6	J, CLP01	ng/kg dry	4.9	11/01/10	11/21/10	CL DLM02.0
57117-41-6	1,2,3,7,8-Pentachlorodibenzofuran	2.5	J, CLP01	ng/kg dry	4.9	11/01/10	11/21/10	CL DLM02.0
60851-34-5	2,3,4,6,7,8-Hexachlorodibenzofuran	18		ng/kg dry	4.9	11/01/10	11/21/10	CL DLM02.0
57117-31-4	2,3,4,7,8-Pentachlorodibenzofuran	9.6		ng/kg dry	4.9	11/01/10	11/21/10	CL DLM02.0
1746-01-6	2,3,7,8-Tetrachlorodibenzodioxin	0.34	U, R, CLP27	ng/kg dry	0.99	11/01/10	11/21/10	CL DLM02.0
51207-31-9	2,3,7,8-Tetrachlorodibenzofuran	1.5	CLP10	ng/kg dry	0.99	11/01/10	11/21/10	CL DLM02.0
37871-00-4	Heptachlorodibenzodioxin (Total)	7000	J, Q-3	ng/kg dry	4.9	11/01/10	11/21/10	CL DLM02.0
38998-75-3	Heptachlorodibenzofuran (Total)	1800	J, Q-3	ng/kg dry	4.9	11/01/10	11/21/10	CL DLM02.0
34465-46-8	Hexachlorodibenzodioxin (Total)	350	J, Q-3	ng/kg dry	4.9	11/01/10	11/21/10	CL DLM02.0
55684-94-1	Hexachlorodibenzofuran (Total)	400	J, Q-3	ng/kg dry	4.9	11/01/10	11/21/10	CL DLM02.0
3268-87-9	Octachlorodibenzodioxin	26000	J, CLP02	ng/kg dry	9.9	11/01/10	11/21/10	CL DLM02.0
39001-02-0	Octachlorodibenzofuran	1100		ng/kg dry	9.9	11/01/10	11/21/10	CL DLM02.0
36088-22-9	Pentachlorodibenzodioxin (Total)	47	J, Q-3	ng/kg dry	4.9	11/01/10	11/21/10	CL DLM02.0
30402-15-4	Pentachlorodibenzofuran (Total)	76	J, Q-3	ng/kg dry	4.9	11/01/10	11/21/10	CL DLM02.0
R4-0428	TEQ (Avian Toxic. Equiv. Value, WHO TEQ-98)	34	J, D-5	ng/kg dry	34	11/01/10	11/21/10	CL DLM02.0
R4-0429	TEQ (Fish Toxic. Equiv. Value, WHO TEQ-98)	30	J, D-5	ng/kg dry	30	11/01/10	11/21/10	CL DLM02.0
R4-0430	TEQ (Mammalian Toxic. Equiv. Value, WHO TEQ-2005)	51	J, D-5	ng/kg dry	51	11/01/10	11/21/10	CL DLM02.0
41903-57-5	Tetrachlorodibenzodioxin (Total)	7.2	J, Q-3	ng/kg dry	0.99	11/01/10	11/21/10	CL DLM02.0



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D.A.R.T. Id: 11-0019

Project: 11-0019, Tronox Inc - Reported by Jeffrey Hendel

Dioxin

Project: 11-0019, Tronox Inc

Contract Lab Case: 40729

Sample ID: 12486ASF

Lab ID: C104703-10

MD No:

Station ID: 12486

Matrix: Surface Soil

D No: SGS

Date Collected: 10/25/10 16:35

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
30402-14-3	Tetrachlorodibenzofuran (Total)	22	J, Q-3	ng/kg dry	0.99	11/01/10	11/21/10	CL DLM02.0



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D.A.R.T. Id: 11-0019

Project: 11-0019, Tronox Inc - Reported by Jeffrey Hendel

Dioxin

Project: 11-0019, Tronox Inc

Contract Lab Case: 40729

Sample ID: 12490ASF

Lab ID: C104703-11

MD No:

Station ID: 12490

Matrix: Surface Soil

D No: SGS

Date Collected: 10/25/10 16:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	19		%		11/01/10	11/21/10	CL DLM02.0
35822-46-9	1,2,3,4,6,7,8-Heptachlorodibenzodioxin	240		ng/kg dry	5.2	11/01/10	11/21/10	CL DLM02.0
67562-39-4	1,2,3,4,6,7,8-Heptachlorodibenzofuran	37	U, D-4	ng/kg dry	5.2	11/01/10	11/21/10	CL DLM02.0
55673-89-7	1,2,3,4,7,8,9-Heptachlorodibenzofuran	2.7	J, CLP01	ng/kg dry	5.2	11/01/10	11/21/10	CL DLM02.0
39227-28-6	1,2,3,4,7,8-Hexachlorodibenzodioxin	2.3	U, CLP18	ng/kg dry	5.2	11/01/10	11/21/10	CL DLM02.0
70648-26-9	1,2,3,4,7,8-Hexachlorodibenzofuran	2.9	J, CLP01	ng/kg dry	5.2	11/01/10	11/21/10	CL DLM02.0
57653-85-7	1,2,3,6,7,8-Hexachlorodibenzodioxin	5.5		ng/kg dry	5.2	11/01/10	11/21/10	CL DLM02.0
57117-44-9	1,2,3,6,7,8-Hexachlorodibenzofuran	1.4	U, CLP18	ng/kg dry	5.2	11/01/10	11/21/10	CL DLM02.0
19408-74-3	1,2,3,7,8,9-Hexachlorodibenzodioxin	3.9	J, CLP01	ng/kg dry	5.2	11/01/10	11/21/10	CL DLM02.0
72918-21-9	1,2,3,7,8,9-Hexachlorodibenzofuran	0.86	U, CLP18	ng/kg dry	5.2	11/01/10	11/21/10	CL DLM02.0
40321-76-4	1,2,3,7,8-Pentachlorodibenzodioxin	0.79	J, CLP01	ng/kg dry	5.2	11/01/10	11/21/10	CL DLM02.0
57117-41-6	1,2,3,7,8-Pentachlorodibenzofuran	0.34	U, CLP18	ng/kg dry	5.2	11/01/10	11/21/10	CL DLM02.0
60851-34-5	2,3,4,6,7,8-Hexachlorodibenzofuran	1.6	J, CLP01	ng/kg dry	5.2	11/01/10	11/21/10	CL DLM02.0
57117-31-4	2,3,4,7,8-Pentachlorodibenzofuran	0.82	J, CLP01	ng/kg dry	5.2	11/01/10	11/21/10	CL DLM02.0
1746-01-6	2,3,7,8-Tetrachlorodibenzodioxin	0.35	U, R, CLP27	ng/kg dry	1.0	11/01/10	11/21/10	CL DLM02.0
51207-31-9	2,3,7,8-Tetrachlorodibenzofuran	0.78	U, CLP18	ng/kg dry	1.0	11/01/10	11/21/10	CL DLM02.0
37871-00-4	Heptachlorodibenzodioxin (Total)	880	J, Q-3	ng/kg dry	5.2	11/01/10	11/21/10	CL DLM02.0
38998-75-3	Heptachlorodibenzofuran (Total)	170	J, Q-3	ng/kg dry	5.2	11/01/10	11/21/10	CL DLM02.0
34465-46-8	Hexachlorodibenzodioxin (Total)	60	J, Q-3	ng/kg dry	5.2	11/01/10	11/21/10	CL DLM02.0
55684-94-1	Hexachlorodibenzofuran (Total)	39	J, Q-3	ng/kg dry	5.2	11/01/10	11/21/10	CL DLM02.0
3268-87-9	Octachlorodibenzodioxin	3700		ng/kg dry	10	11/01/10	11/21/10	CL DLM02.0
39001-02-0	Octachlorodibenzofuran	120		ng/kg dry	10	11/01/10	11/21/10	CL DLM02.0
36088-22-9	Pentachlorodibenzodioxin (Total)	7.6	J, Q-3	ng/kg dry	5.2	11/01/10	11/21/10	CL DLM02.0
30402-15-4	Pentachlorodibenzofuran (Total)	6.4	J, Q-3	ng/kg dry	5.2	11/01/10	11/21/10	CL DLM02.0
R4-0428	TEQ (Avian Toxic. Equiv. Value, WHO TEQ-98)	5.0	J, D-5	ng/kg dry	5.0	11/01/10	11/21/10	CL DLM02.0
R4-0429	TEQ (Fish Toxic. Equiv. Value, WHO TEQ-98)	4.5	J, D-5	ng/kg dry	4.5	11/01/10	11/21/10	CL DLM02.0
R4-0430	TEQ (Mammalian Toxic. Equiv. Value, WHO TEQ-2005)	7.3	J, D-5	ng/kg dry	7.3	11/01/10	11/21/10	CL DLM02.0
41903-57-5	Tetrachlorodibenzodioxin (Total)	0.35	U, J, Q-3	ng/kg dry	1.0	11/01/10	11/21/10	CL DLM02.0



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0019

Project: 11-0019, Tronox Inc - Reported by Jeffrey Hendel

Dioxin

Project: 11-0019, Tronox Inc

Contract Lab Case: 40729

Sample ID: 12490ASF

Lab ID: C104703-11

MD No:

Station ID: 12490

Matrix: Surface Soil

D No: SGS

Date Collected: 10/25/10 16:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
30402-14-3	Tetrachlorodibenzofuran (Total)	1.6	J, Q-3	ng/kg dry	1.0	11/01/10	11/21/10	CL DLM02.0



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D.A.R.T. Id: 11-0019

Project: 11-0019, Tronox Inc - Reported by Jeffrey Hendel

Dioxin

Project: 11-0019, Tronox Inc

Contract Lab Case: 40729

Sample ID: 12490ASFX

Lab ID: C104703-12

MD No:

Station ID: 12490

Matrix: Surface Soil

D No: SGS

Date Collected: 10/25/10 16:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	19		%		11/01/10	11/21/10	CL DLM02.0
35822-46-9	1,2,3,4,6,7,8-Heptachlorodibenzodioxin	280		ng/kg dry	5.4	11/01/10	11/21/10	CL DLM02.0
67562-39-4	1,2,3,4,6,7,8-Heptachlorodibenzofuran	41	U, D-4	ng/kg dry	5.4	11/01/10	11/21/10	CL DLM02.0
55673-89-7	1,2,3,4,7,8,9-Heptachlorodibenzofuran	2.7	U, CLP18	ng/kg dry	5.4	11/01/10	11/21/10	CL DLM02.0
39227-28-6	1,2,3,4,7,8-Hexachlorodibenzodioxin	2.3	U, CLP18	ng/kg dry	5.4	11/01/10	11/21/10	CL DLM02.0
70648-26-9	1,2,3,4,7,8-Hexachlorodibenzofuran	3.0	J, CLP01	ng/kg dry	5.4	11/01/10	11/21/10	CL DLM02.0
57653-85-7	1,2,3,6,7,8-Hexachlorodibenzodioxin	6.5		ng/kg dry	5.4	11/01/10	11/21/10	CL DLM02.0
57117-44-9	1,2,3,6,7,8-Hexachlorodibenzofuran	1.3	J, CLP01	ng/kg dry	5.4	11/01/10	11/21/10	CL DLM02.0
19408-74-3	1,2,3,7,8,9-Hexachlorodibenzodioxin	4.0	J, CLP01	ng/kg dry	5.4	11/01/10	11/21/10	CL DLM02.0
72918-21-9	1,2,3,7,8,9-Hexachlorodibenzofuran	0.64	U	ng/kg dry	5.4	11/01/10	11/21/10	CL DLM02.0
40321-76-4	1,2,3,7,8-Pentachlorodibenzodioxin	0.88	J, CLP01	ng/kg dry	5.4	11/01/10	11/21/10	CL DLM02.0
57117-41-6	1,2,3,7,8-Pentachlorodibenzofuran	0.32	J, CLP01	ng/kg dry	5.4	11/01/10	11/21/10	CL DLM02.0
60851-34-5	2,3,4,6,7,8-Hexachlorodibenzofuran	1.8	U, CLP18	ng/kg dry	5.4	11/01/10	11/21/10	CL DLM02.0
57117-31-4	2,3,4,7,8-Pentachlorodibenzofuran	0.93	U, CLP18	ng/kg dry	5.4	11/01/10	11/21/10	CL DLM02.0
1746-01-6	2,3,7,8-Tetrachlorodibenzodioxin	0.36	U, R, CLP27	ng/kg dry	1.1	11/01/10	11/21/10	CL DLM02.0
51207-31-9	2,3,7,8-Tetrachlorodibenzofuran	0.76	J, CLP01, CLP24	ng/kg dry	1.1	11/01/10	11/21/10	CL DLM02.0
37871-00-4	Heptachlorodibenzodioxin (Total)	980	J, Q-3	ng/kg dry	5.4	11/01/10	11/21/10	CL DLM02.0
38998-75-3	Heptachlorodibenzofuran (Total)	190	J, Q-3	ng/kg dry	5.4	11/01/10	11/21/10	CL DLM02.0
34465-46-8	Hexachlorodibenzodioxin (Total)	65	J, Q-3	ng/kg dry	5.4	11/01/10	11/21/10	CL DLM02.0
55684-94-1	Hexachlorodibenzofuran (Total)	41	J, Q-3	ng/kg dry	5.4	11/01/10	11/21/10	CL DLM02.0
3268-87-9	Octachlorodibenzodioxin	3900		ng/kg dry	11	11/01/10	11/21/10	CL DLM02.0
39001-02-0	Octachlorodibenzofuran	140		ng/kg dry	11	11/01/10	11/21/10	CL DLM02.0
36088-22-9	Pentachlorodibenzodioxin (Total)	8.0	J, Q-3	ng/kg dry	5.4	11/01/10	11/21/10	CL DLM02.0
30402-15-4	Pentachlorodibenzofuran (Total)	6.7	J, Q-3	ng/kg dry	5.4	11/01/10	11/21/10	CL DLM02.0
R4-0428	TEQ (Avian Toxic. Equiv. Value, WHO TEQ-98)	5.3	J, D-5	ng/kg dry	5.3	11/01/10	11/21/10	CL DLM02.0
R4-0429	TEQ (Fish Toxic. Equiv. Value, WHO TEQ-98)	4.8	J, D-5	ng/kg dry	4.8	11/01/10	11/21/10	CL DLM02.0
R4-0430	TEQ (Mammalian Toxic. Equiv. Value, WHO TEQ-2005)	8.0	J, D-5	ng/kg dry	8.0	11/01/10	11/21/10	CL DLM02.0
41903-57-5	Tetrachlorodibenzodioxin (Total)	0.36	U, J, Q-3	ng/kg dry	1.1	11/01/10	11/21/10	CL DLM02.0



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980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0019

Project: 11-0019, Tronox Inc - Reported by Jeffrey Hendel

Dioxin

Project: 11-0019, Tronox Inc

Contract Lab Case: 40729

Sample ID: 12490ASFX

Lab ID: C104703-12

MD No:

Station ID: 12490

Matrix: Surface Soil

D No: SGS

Date Collected: 10/25/10 16:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
30402-14-3	Tetrachlorodibenzofuran (Total)	0.76	J, Q-3	ng/kg dry	1.1	11/01/10	11/21/10	CL DLM02.0



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D.A.R.T. Id: 11-0019

Project: 11-0019, Tronox Inc - Reported by Jeffrey Hendel

Dioxin

Project: 11-0019, Tronox Inc

Contract Lab Case: 40729

Sample ID: 12491ASF

Lab ID: C104703-13

MD No:

Station ID: 12491

Matrix: Surface Soil

D No: SGS

Date Collected: 10/26/10 9:05

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	16		%		11/01/10	11/21/10	CL DLM02.0
35822-46-9	1,2,3,4,6,7,8-Heptachlorodibenzodioxin	330		ng/kg dry	5.2	11/01/10	11/21/10	CL DLM02.0
67562-39-4	1,2,3,4,6,7,8-Heptachlorodibenzofuran	41	U, D-4	ng/kg dry	5.2	11/01/10	11/21/10	CL DLM02.0
55673-89-7	1,2,3,4,7,8,9-Heptachlorodibenzofuran	3.2	J, CLP01	ng/kg dry	5.2	11/01/10	11/21/10	CL DLM02.0
39227-28-6	1,2,3,4,7,8-Hexachlorodibenzodioxin	4.4	J, CLP01	ng/kg dry	5.2	11/01/10	11/21/10	CL DLM02.0
70648-26-9	1,2,3,4,7,8-Hexachlorodibenzofuran	3.6	J, CLP01	ng/kg dry	5.2	11/01/10	11/21/10	CL DLM02.0
57653-85-7	1,2,3,6,7,8-Hexachlorodibenzodioxin	9.2		ng/kg dry	5.2	11/01/10	11/21/10	CL DLM02.0
57117-44-9	1,2,3,6,7,8-Hexachlorodibenzofuran	1.6	U, CLP18	ng/kg dry	5.2	11/01/10	11/21/10	CL DLM02.0
19408-74-3	1,2,3,7,8,9-Hexachlorodibenzodioxin	8.2		ng/kg dry	5.2	11/01/10	11/21/10	CL DLM02.0
72918-21-9	1,2,3,7,8,9-Hexachlorodibenzofuran	1.2	U, CLP18	ng/kg dry	5.2	11/01/10	11/21/10	CL DLM02.0
40321-76-4	1,2,3,7,8-Pentachlorodibenzodioxin	2.0	J, CLP01	ng/kg dry	5.2	11/01/10	11/21/10	CL DLM02.0
57117-41-6	1,2,3,7,8-Pentachlorodibenzofuran	0.76	J, CLP01	ng/kg dry	5.2	11/01/10	11/21/10	CL DLM02.0
60851-34-5	2,3,4,6,7,8-Hexachlorodibenzofuran	2.1	U, CLP18	ng/kg dry	5.2	11/01/10	11/21/10	CL DLM02.0
57117-31-4	2,3,4,7,8-Pentachlorodibenzofuran	1.1	J, CLP01	ng/kg dry	5.2	11/01/10	11/21/10	CL DLM02.0
1746-01-6	2,3,7,8-Tetrachlorodibenzodioxin	0.30	U, R, CLP27	ng/kg dry	1.0	11/01/10	11/21/10	CL DLM02.0
51207-31-9	2,3,7,8-Tetrachlorodibenzofuran	0.84	U, CLP18	ng/kg dry	1.0	11/01/10	11/21/10	CL DLM02.0
37871-00-4	Heptachlorodibenzodioxin (Total)	1500	J, Q-3	ng/kg dry	5.2	11/01/10	11/21/10	CL DLM02.0
38998-75-3	Heptachlorodibenzofuran (Total)	200	J, Q-3	ng/kg dry	5.2	11/01/10	11/21/10	CL DLM02.0
34465-46-8	Hexachlorodibenzodioxin (Total)	96	J, Q-3	ng/kg dry	5.2	11/01/10	11/21/10	CL DLM02.0
55684-94-1	Hexachlorodibenzofuran (Total)	48	J, Q-3	ng/kg dry	5.2	11/01/10	11/21/10	CL DLM02.0
3268-87-9	Octachlorodibenzodioxin	4700	J, CLP02	ng/kg dry	10	11/01/10	11/21/10	CL DLM02.0
39001-02-0	Octachlorodibenzofuran	150		ng/kg dry	10	11/01/10	11/21/10	CL DLM02.0
36088-22-9	Pentachlorodibenzodioxin (Total)	16	J, Q-3	ng/kg dry	5.2	11/01/10	11/21/10	CL DLM02.0
30402-15-4	Pentachlorodibenzofuran (Total)	9.6	J, Q-3	ng/kg dry	5.2	11/01/10	11/21/10	CL DLM02.0
R4-0428	TEQ (Avian Toxic. Equiv. Value, WHO TEQ-98)	7.6	J, D-5	ng/kg dry	7.6	11/01/10	11/21/10	CL DLM02.0
R4-0429	TEQ (Fish Toxic. Equiv. Value, WHO TEQ-98)	7.5	J, D-5	ng/kg dry	7.5	11/01/10	11/21/10	CL DLM02.0
R4-0430	TEQ (Mammalian Toxic. Equiv. Value, WHO TEQ-2005)	11	J, D-5	ng/kg dry	11	11/01/10	11/21/10	CL DLM02.0
41903-57-5	Tetrachlorodibenzodioxin (Total)	0.30	U, J, Q-3	ng/kg dry	1.0	11/01/10	11/21/10	CL DLM02.0



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Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0019
Project: 11-0019, Tronox Inc - Reported by Jeffrey Hendel

Dioxin

Project: 11-0019, Tronox Inc

Contract Lab Case: 40729

Sample ID: 12491ASF

Lab ID: C104703-13

MD No:

Station ID: 12491

Matrix: Surface Soil

D No: SGS

Date Collected: 10/26/10 9:05

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
30402-14-3	Tetrachlorodibenzofuran (Total)	2.8	J, Q-3	ng/kg dry	1.0	11/01/10	11/21/10	CL DLM02.0



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D.A.R.T. Id: 11-0019

Project: 11-0019, Tronox Inc - Reported by Jeffrey Hendel

Dioxin

Project: 11-0019, Tronox Inc

Contract Lab Case: 40729

Sample ID: 12520ASF

Lab ID: C104703-14

MD No:

Station ID: 12520

Matrix: Surface Soil

D No: SGS

Date Collected: 10/26/10 9:20

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	13		%		11/01/10	11/21/10	CL DLM02.0
35822-46-9	1,2,3,4,6,7,8-Heptachlorodibenzodioxin	400		ng/kg dry	5.3	11/01/10	11/21/10	CL DLM02.0
67562-39-4	1,2,3,4,6,7,8-Heptachlorodibenzofuran	54	U, D-4	ng/kg dry	5.3	11/01/10	11/21/10	CL DLM02.0
55673-89-7	1,2,3,4,7,8,9-Heptachlorodibenzofuran	4.1	U, CLP18	ng/kg dry	5.3	11/01/10	11/21/10	CL DLM02.0
39227-28-6	1,2,3,4,7,8-Hexachlorodibenzodioxin	3.4	J, CLP01	ng/kg dry	5.3	11/01/10	11/21/10	CL DLM02.0
70648-26-9	1,2,3,4,7,8-Hexachlorodibenzofuran	3.8	J, CLP01	ng/kg dry	5.3	11/01/10	11/21/10	CL DLM02.0
57653-85-7	1,2,3,6,7,8-Hexachlorodibenzodioxin	10		ng/kg dry	5.3	11/01/10	11/21/10	CL DLM02.0
57117-44-9	1,2,3,6,7,8-Hexachlorodibenzofuran	1.6	J, CLP01	ng/kg dry	5.3	11/01/10	11/21/10	CL DLM02.0
19408-74-3	1,2,3,7,8,9-Hexachlorodibenzodioxin	6.6		ng/kg dry	5.3	11/01/10	11/21/10	CL DLM02.0
72918-21-9	1,2,3,7,8,9-Hexachlorodibenzofuran	1.4	J, CLP01	ng/kg dry	5.3	11/01/10	11/21/10	CL DLM02.0
40321-76-4	1,2,3,7,8-Pentachlorodibenzodioxin	1.5	J, CLP01	ng/kg dry	5.3	11/01/10	11/21/10	CL DLM02.0
57117-41-6	1,2,3,7,8-Pentachlorodibenzofuran	0.78	J, CLP01	ng/kg dry	5.3	11/01/10	11/21/10	CL DLM02.0
60851-34-5	2,3,4,6,7,8-Hexachlorodibenzofuran	2.8	J, CLP01	ng/kg dry	5.3	11/01/10	11/21/10	CL DLM02.0
57117-31-4	2,3,4,7,8-Pentachlorodibenzofuran	1.3	J, CLP01	ng/kg dry	5.3	11/01/10	11/21/10	CL DLM02.0
1746-01-6	2,3,7,8-Tetrachlorodibenzodioxin	0.36	U, R, CLP27	ng/kg dry	1.1	11/01/10	11/21/10	CL DLM02.0
51207-31-9	2,3,7,8-Tetrachlorodibenzofuran	0.42	U	ng/kg dry	1.1	11/01/10	11/21/10	CL DLM02.0
37871-00-4	Heptachlorodibenzodioxin (Total)	1700	J, Q-3	ng/kg dry	5.3	11/01/10	11/21/10	CL DLM02.0
38998-75-3	Heptachlorodibenzofuran (Total)	250	J, Q-3	ng/kg dry	5.3	11/01/10	11/21/10	CL DLM02.0
34465-46-8	Hexachlorodibenzodioxin (Total)	94	J, Q-3	ng/kg dry	5.3	11/01/10	11/21/10	CL DLM02.0
55684-94-1	Hexachlorodibenzofuran (Total)	52	J, Q-3	ng/kg dry	5.3	11/01/10	11/21/10	CL DLM02.0
3268-87-9	Octachlorodibenzodioxin	5500	J, CLP02	ng/kg dry	11	11/01/10	11/21/10	CL DLM02.0
39001-02-0	Octachlorodibenzofuran	200		ng/kg dry	11	11/01/10	11/21/10	CL DLM02.0
36088-22-9	Pentachlorodibenzodioxin (Total)	14	J, Q-3	ng/kg dry	5.3	11/01/10	11/21/10	CL DLM02.0
30402-15-4	Pentachlorodibenzofuran (Total)	9.7	J, Q-3	ng/kg dry	5.3	11/01/10	11/21/10	CL DLM02.0
R4-0428	TEQ (Avian Toxic. Equiv. Value, WHO TEQ-98)	7.1	J, D-5	ng/kg dry	7.1	11/01/10	11/21/10	CL DLM02.0
R4-0429	TEQ (Fish Toxic. Equiv. Value, WHO TEQ-98)	7.0	J, D-5	ng/kg dry	7.0	11/01/10	11/21/10	CL DLM02.0
R4-0430	TEQ (Mammalian Toxic. Equiv. Value, WHO TEQ-2005)	12	J, D-5	ng/kg dry	12	11/01/10	11/21/10	CL DLM02.0
41903-57-5	Tetrachlorodibenzodioxin (Total)	0.90	J, Q-3	ng/kg dry	1.1	11/01/10	11/21/10	CL DLM02.0



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D.A.R.T. Id: 11-0019

Project: 11-0019, Tronox Inc - Reported by Jeffrey Hendel

Dioxin

Project: 11-0019, Tronox Inc

Contract Lab Case: 40729

Sample ID: 12520ASF

Lab ID: C104703-14

MD No:

Station ID: 12520

Matrix: Surface Soil

D No: SGS

Date Collected: 10/26/10 9:20

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
30402-14-3	Tetrachlorodibenzofuran (Total)	1.5	J, Q-3	ng/kg dry	1.1	11/01/10	11/21/10	CL DLM02.0



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D.A.R.T. Id: 11-0019

Project: 11-0019, Tronox Inc - Reported by Jeffrey Hendel

Dioxin

Project: 11-0019, Tronox Inc

Contract Lab Case: 40729

Sample ID: 12522ASF

Lab ID: C104703-15

MD No:

Station ID: 12522

Matrix: Surface Soil

D No: SGS

Date Collected: 10/26/10 8:36

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	16		%		11/01/10	11/21/10	CL DLM02.0
35822-46-9	1,2,3,4,6,7,8-Heptachlorodibenzodioxin	220		ng/kg dry	5.9	11/01/10	11/21/10	CL DLM02.0
67562-39-4	1,2,3,4,6,7,8-Heptachlorodibenzofuran	49	U, D-4	ng/kg dry	5.9	11/01/10	11/21/10	CL DLM02.0
55673-89-7	1,2,3,4,7,8,9-Heptachlorodibenzofuran	3.9	J, CLP01	ng/kg dry	5.9	11/01/10	11/21/10	CL DLM02.0
39227-28-6	1,2,3,4,7,8-Hexachlorodibenzodioxin	3.3	U, CLP18	ng/kg dry	5.9	11/01/10	11/21/10	CL DLM02.0
70648-26-9	1,2,3,4,7,8-Hexachlorodibenzofuran	6.8		ng/kg dry	5.9	11/01/10	11/21/10	CL DLM02.0
57653-85-7	1,2,3,6,7,8-Hexachlorodibenzodioxin	7.6		ng/kg dry	5.9	11/01/10	11/21/10	CL DLM02.0
57117-44-9	1,2,3,6,7,8-Hexachlorodibenzofuran	4.8	J, CLP01	ng/kg dry	5.9	11/01/10	11/21/10	CL DLM02.0
19408-74-3	1,2,3,7,8,9-Hexachlorodibenzodioxin	5.7	U, CLP18	ng/kg dry	5.9	11/01/10	11/21/10	CL DLM02.0
72918-21-9	1,2,3,7,8,9-Hexachlorodibenzofuran	1.8	J, CLP01	ng/kg dry	5.9	11/01/10	11/21/10	CL DLM02.0
40321-76-4	1,2,3,7,8-Pentachlorodibenzodioxin	1.4	U, CLP18	ng/kg dry	5.9	11/01/10	11/21/10	CL DLM02.0
57117-41-6	1,2,3,7,8-Pentachlorodibenzofuran	3.5	J, CLP01	ng/kg dry	5.9	11/01/10	11/21/10	CL DLM02.0
60851-34-5	2,3,4,6,7,8-Hexachlorodibenzofuran	5.5	J, CLP01	ng/kg dry	5.9	11/01/10	11/21/10	CL DLM02.0
57117-31-4	2,3,4,7,8-Pentachlorodibenzofuran	5.6	J, CLP01	ng/kg dry	5.9	11/01/10	11/21/10	CL DLM02.0
1746-01-6	2,3,7,8-Tetrachlorodibenzodioxin	0.75	J, CLP01, CLP27	ng/kg dry	1.2	11/01/10	11/21/10	CL DLM02.0
51207-31-9	2,3,7,8-Tetrachlorodibenzofuran	3.2	CLP10	ng/kg dry	1.2	11/01/10	11/21/10	CL DLM02.0
37871-00-4	Heptachlorodibenzodioxin (Total)	760	J, Q-3	ng/kg dry	5.9	11/01/10	11/21/10	CL DLM02.0
38998-75-3	Heptachlorodibenzofuran (Total)	170	J, Q-3	ng/kg dry	5.9	11/01/10	11/21/10	CL DLM02.0
34465-46-8	Hexachlorodibenzodioxin (Total)	82	J, Q-3	ng/kg dry	5.9	11/01/10	11/21/10	CL DLM02.0
55684-94-1	Hexachlorodibenzofuran (Total)	68	J, Q-3	ng/kg dry	5.9	11/01/10	11/21/10	CL DLM02.0
3268-87-9	Octachlorodibenzodioxin	2900		ng/kg dry	12	11/01/10	11/21/10	CL DLM02.0
39001-02-0	Octachlorodibenzofuran	120		ng/kg dry	12	11/01/10	11/21/10	CL DLM02.0
36088-22-9	Pentachlorodibenzodioxin (Total)	43	J, Q-3	ng/kg dry	5.9	11/01/10	11/21/10	CL DLM02.0
30402-15-4	Pentachlorodibenzofuran (Total)	52	J, Q-3	ng/kg dry	5.9	11/01/10	11/21/10	CL DLM02.0
R4-0428	TEQ (Avian Toxic. Equiv. Value, WHO TEQ-98)	15	J, D-5	ng/kg dry	15	11/01/10	11/21/10	CL DLM02.0
R4-0429	TEQ (Fish Toxic. Equiv. Value, WHO TEQ-98)	10	J, D-5	ng/kg dry	10	11/01/10	11/21/10	CL DLM02.0
R4-0430	TEQ (Mammalian Toxic. Equiv. Value, WHO TEQ-2005)	11	J, D-5	ng/kg dry	11	11/01/10	11/21/10	CL DLM02.0
41903-57-5	Tetrachlorodibenzodioxin (Total)	25	J, Q-3	ng/kg dry	1.2	11/01/10	11/21/10	CL DLM02.0



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0019

Project: 11-0019, Tronox Inc - Reported by Jeffrey Hendel

Dioxin

Project: 11-0019, Tronox Inc

Contract Lab Case: 40729

Sample ID: 12522ASF

Lab ID: C104703-15

MD No:

Station ID: 12522

Matrix: Surface Soil

D No: SGS

Date Collected: 10/26/10 8:36

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
30402-14-3	Tetrachlorodibenzofuran (Total)	56	J, Q-3	ng/kg dry	1.2	11/01/10	11/21/10	CL DLM02.0



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D.A.R.T. Id: 11-0019

Project: 11-0019, Tronox Inc - Reported by Jeffrey Hendel

Dioxin

Project: 11-0019, Tronox Inc

Contract Lab Case: 40729

Sample ID: 12621ASF

Lab ID: C104703-16

MD No:

Station ID: 12621

Matrix: Surface Soil

D No: SGS

Date Collected: 10/26/10 10:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	15		%		11/01/10	11/21/10	CL DLM02.0
35822-46-9	1,2,3,4,6,7,8-Heptachlorodibenzodioxin	330		ng/kg dry	5.0	11/01/10	11/21/10	CL DLM02.0
67562-39-4	1,2,3,4,6,7,8-Heptachlorodibenzofuran	78	U, D-4	ng/kg dry	5.0	11/01/10	11/21/10	CL DLM02.0
55673-89-7	1,2,3,4,7,8,9-Heptachlorodibenzofuran	5.2		ng/kg dry	5.0	11/01/10	11/21/10	CL DLM02.0
39227-28-6	1,2,3,4,7,8-Hexachlorodibenzodioxin	2.8	J, CLP01	ng/kg dry	5.0	11/01/10	11/21/10	CL DLM02.0
70648-26-9	1,2,3,4,7,8-Hexachlorodibenzofuran	6.3		ng/kg dry	5.0	11/01/10	11/21/10	CL DLM02.0
57653-85-7	1,2,3,6,7,8-Hexachlorodibenzodioxin	9.4		ng/kg dry	5.0	11/01/10	11/21/10	CL DLM02.0
57117-44-9	1,2,3,6,7,8-Hexachlorodibenzofuran	2.6	J, CLP01	ng/kg dry	5.0	11/01/10	11/21/10	CL DLM02.0
19408-74-3	1,2,3,7,8,9-Hexachlorodibenzodioxin	6.4		ng/kg dry	5.0	11/01/10	11/21/10	CL DLM02.0
72918-21-9	1,2,3,7,8,9-Hexachlorodibenzofuran	1.2	U, CLP18	ng/kg dry	5.0	11/01/10	11/21/10	CL DLM02.0
40321-76-4	1,2,3,7,8-Pentachlorodibenzodioxin	1.1	J, CLP01	ng/kg dry	5.0	11/01/10	11/21/10	CL DLM02.0
57117-41-6	1,2,3,7,8-Pentachlorodibenzofuran	0.80	U	ng/kg dry	5.0	11/01/10	11/21/10	CL DLM02.0
60851-34-5	2,3,4,6,7,8-Hexachlorodibenzofuran	3.5	J, CLP01	ng/kg dry	5.0	11/01/10	11/21/10	CL DLM02.0
57117-31-4	2,3,4,7,8-Pentachlorodibenzofuran	1.6	J, CLP01	ng/kg dry	5.0	11/01/10	11/21/10	CL DLM02.0
1746-01-6	2,3,7,8-Tetrachlorodibenzodioxin	0.85	U, R, CLP27	ng/kg dry	1.0	11/01/10	11/21/10	CL DLM02.0
51207-31-9	2,3,7,8-Tetrachlorodibenzofuran	0.54	CLP01, CLP10	ng/kg dry	1.0	11/01/10	11/21/10	CL DLM02.0
37871-00-4	Heptachlorodibenzodioxin (Total)	1100	J, Q-3	ng/kg dry	5.0	11/01/10	11/21/10	CL DLM02.0
38998-75-3	Heptachlorodibenzofuran (Total)	280	J, Q-3	ng/kg dry	5.0	11/01/10	11/21/10	CL DLM02.0
34465-46-8	Hexachlorodibenzodioxin (Total)	82	J, Q-3	ng/kg dry	5.0	11/01/10	11/21/10	CL DLM02.0
55684-94-1	Hexachlorodibenzofuran (Total)	77	J, Q-3	ng/kg dry	5.0	11/01/10	11/21/10	CL DLM02.0
3268-87-9	Octachlorodibenzodioxin	4600	J, CLP02	ng/kg dry	10	11/01/10	11/21/10	CL DLM02.0
39001-02-0	Octachlorodibenzofuran	230		ng/kg dry	10	11/01/10	11/21/10	CL DLM02.0
36088-22-9	Pentachlorodibenzodioxin (Total)	8.5	J, Q-3	ng/kg dry	5.0	11/01/10	11/21/10	CL DLM02.0
30402-15-4	Pentachlorodibenzofuran (Total)	14	J, Q-3	ng/kg dry	5.0	11/01/10	11/21/10	CL DLM02.0
R4-0428	TEQ (Avian Toxic. Equiv. Value, WHO TEQ-98)	8.0	J, D-5	ng/kg dry	8.0	11/01/10	11/21/10	CL DLM02.0
R4-0429	TEQ (Fish Toxic. Equiv. Value, WHO TEQ-98)	7.3	J, D-5	ng/kg dry	7.3	11/01/10	11/21/10	CL DLM02.0
R4-0430	TEQ (Mammalian Toxic. Equiv. Value, WHO TEQ-2005)	11	J, D-5	ng/kg dry	11	11/01/10	11/21/10	CL DLM02.0
41903-57-5	Tetrachlorodibenzodioxin (Total)	0.85	U, J, Q-3	ng/kg dry	1.0	11/01/10	11/21/10	CL DLM02.0



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Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0019

Project: 11-0019, Tronox Inc - Reported by Jeffrey Hendel

Dioxin

Project: 11-0019, Tronox Inc

Contract Lab Case: 40729

Sample ID: 12621ASF

Lab ID: C104703-16

MD No:

Station ID: 12621

Matrix: Surface Soil

D No: SGS

Date Collected: 10/26/10 10:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
30402-14-3	Tetrachlorodibenzofuran (Total)	3.0	J, Q-3	ng/kg dry	1.0	11/01/10	11/21/10	CL DLM02.0



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D.A.R.T. Id: 11-0019

Project: 11-0019, Tronox Inc - Reported by Jeffrey Hendel

Dioxin

Project: 11-0019, Tronox Inc

Contract Lab Case: 40729

Sample ID: 12622ASF

Lab ID: C104703-17

MD No:

Station ID: 12622

Matrix: Surface Soil

D No: SGS

Date Collected: 10/26/10 9:45

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	14		%		11/08/10	11/22/10	CL DLM02.0
35822-46-9	1,2,3,4,6,7,8-Heptachlorodibenzodioxin	340		ng/kg dry	4.9	11/08/10	11/22/10	CL DLM02.0
67562-39-4	1,2,3,4,6,7,8-Heptachlorodibenzofuran	73	U, D-4	ng/kg dry	4.9	11/08/10	11/22/10	CL DLM02.0
55673-89-7	1,2,3,4,7,8,9-Heptachlorodibenzofuran	5.2		ng/kg dry	4.9	11/08/10	11/22/10	CL DLM02.0
39227-28-6	1,2,3,4,7,8-Hexachlorodibenzodioxin	2.7	J, CLP01	ng/kg dry	4.9	11/08/10	11/22/10	CL DLM02.0
70648-26-9	1,2,3,4,7,8-Hexachlorodibenzofuran	5.9	U, CLP18	ng/kg dry	4.9	11/08/10	11/22/10	CL DLM02.0
57653-85-7	1,2,3,6,7,8-Hexachlorodibenzodioxin	9.8		ng/kg dry	4.9	11/08/10	11/22/10	CL DLM02.0
57117-44-9	1,2,3,6,7,8-Hexachlorodibenzofuran	2.3	J, CLP01	ng/kg dry	4.9	11/08/10	11/22/10	CL DLM02.0
19408-74-3	1,2,3,7,8,9-Hexachlorodibenzodioxin	6.4		ng/kg dry	4.9	11/08/10	11/22/10	CL DLM02.0
72918-21-9	1,2,3,7,8,9-Hexachlorodibenzofuran	1.2	U	ng/kg dry	4.9	11/08/10	11/22/10	CL DLM02.0
40321-76-4	1,2,3,7,8-Pentachlorodibenzodioxin	1.4	U, CLP18	ng/kg dry	4.9	11/08/10	11/22/10	CL DLM02.0
57117-41-6	1,2,3,7,8-Pentachlorodibenzofuran	0.73	U, CLP18	ng/kg dry	4.9	11/08/10	11/22/10	CL DLM02.0
60851-34-5	2,3,4,6,7,8-Hexachlorodibenzofuran	2.9	J, CLP01	ng/kg dry	4.9	11/08/10	11/22/10	CL DLM02.0
57117-31-4	2,3,4,7,8-Pentachlorodibenzofuran	1.3	U, CLP18	ng/kg dry	4.9	11/08/10	11/22/10	CL DLM02.0
1746-01-6	2,3,7,8-Tetrachlorodibenzodioxin	0.40	U, R, CLP27	ng/kg dry	0.97	11/08/10	11/22/10	CL DLM02.0
51207-31-9	2,3,7,8-Tetrachlorodibenzofuran	0.87	J, CLP01, CLP24	ng/kg dry	0.97	11/08/10	11/22/10	CL DLM02.0
37871-00-4	Heptachlorodibenzodioxin (Total)	1000	J, Q-3	ng/kg dry	4.9	11/08/10	11/22/10	CL DLM02.0
38998-75-3	Heptachlorodibenzofuran (Total)	300	J, Q-3	ng/kg dry	4.9	11/08/10	11/22/10	CL DLM02.0
34465-46-8	Hexachlorodibenzodioxin (Total)	75	J, Q-3	ng/kg dry	4.9	11/08/10	11/22/10	CL DLM02.0
55684-94-1	Hexachlorodibenzofuran (Total)	73	J, Q-3	ng/kg dry	4.9	11/08/10	11/22/10	CL DLM02.0
3268-87-9	Octachlorodibenzodioxin	4300	J, CLP02	ng/kg dry	9.7	11/08/10	11/22/10	CL DLM02.0
39001-02-0	Octachlorodibenzofuran	190		ng/kg dry	9.7	11/08/10	11/22/10	CL DLM02.0
36088-22-9	Pentachlorodibenzodioxin (Total)	4.7	J, Q-3	ng/kg dry	4.9	11/08/10	11/22/10	CL DLM02.0
30402-15-4	Pentachlorodibenzofuran (Total)	25	J, Q-3	ng/kg dry	4.9	11/08/10	11/22/10	CL DLM02.0
R4-0428	TEQ (Avian Toxic. Equiv. Value, WHO TEQ-98)	7.7	J, D-5	ng/kg dry	7.7	11/08/10	11/22/10	CL DLM02.0
R4-0429	TEQ (Fish Toxic. Equiv. Value, WHO TEQ-98)	6.8	J, D-5	ng/kg dry	6.8	11/08/10	11/22/10	CL DLM02.0
R4-0430	TEQ (Mammalian Toxic. Equiv. Value, WHO TEQ-2005)	11	J, D-5	ng/kg dry	11	11/08/10	11/22/10	CL DLM02.0
41903-57-5	Tetrachlorodibenzodioxin (Total)	0.40	U, J, Q-3	ng/kg dry	0.97	11/08/10	11/22/10	CL DLM02.0



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0019

Project: 11-0019, Tronox Inc - Reported by Jeffrey Hendel

Dioxin

Project: 11-0019, Tronox Inc

Contract Lab Case: 40729

Sample ID: 12622ASF

Lab ID: C104703-17

MD No:

Station ID: 12622

Matrix: Surface Soil

D No: SGS

Date Collected: 10/26/10 9:45

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
30402-14-3	Tetrachlorodibenzofuran (Total)	2.2	J, Q-3	ng/kg dry	0.97	11/08/10	11/22/10	CL DLM02.0



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D.A.R.T. Id: 11-0019

Project: 11-0019, Tronox Inc - Reported by Jeffrey Hendel

Dioxin

Project: 11-0019, Tronox Inc

Contract Lab Case: 40729

Sample ID: 12623ASF

Lab ID: C104703-18

MD No:

Station ID: 12623

Matrix: Surface Soil

D No: SGS

Date Collected: 10/26/10 9:25

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	13		%		11/01/10	11/21/10	CL DLM02.0
35822-46-9	1,2,3,4,6,7,8-Heptachlorodibenzodioxin	3900		ng/kg dry	55	11/01/10	11/29/10	CL DLM02.0
67562-39-4	1,2,3,4,6,7,8-Heptachlorodibenzofuran	980		ng/kg dry	5.5	11/01/10	11/21/10	CL DLM02.0
55673-89-7	1,2,3,4,7,8,9-Heptachlorodibenzofuran	82		ng/kg dry	5.5	11/01/10	11/21/10	CL DLM02.0
39227-28-6	1,2,3,4,7,8-Hexachlorodibenzodioxin	18		ng/kg dry	5.5	11/01/10	11/21/10	CL DLM02.0
70648-26-9	1,2,3,4,7,8-Hexachlorodibenzofuran	130		ng/kg dry	5.5	11/01/10	11/21/10	CL DLM02.0
57653-85-7	1,2,3,6,7,8-Hexachlorodibenzodioxin	140		ng/kg dry	5.5	11/01/10	11/21/10	CL DLM02.0
57117-44-9	1,2,3,6,7,8-Hexachlorodibenzofuran	44		ng/kg dry	5.5	11/01/10	11/21/10	CL DLM02.0
19408-74-3	1,2,3,7,8,9-Hexachlorodibenzodioxin	42	U, CLP18	ng/kg dry	5.5	11/01/10	11/21/10	CL DLM02.0
72918-21-9	1,2,3,7,8,9-Hexachlorodibenzofuran	45		ng/kg dry	5.5	11/01/10	11/21/10	CL DLM02.0
40321-76-4	1,2,3,7,8-Pentachlorodibenzodioxin	6.2		ng/kg dry	5.5	11/01/10	11/21/10	CL DLM02.0
57117-41-6	1,2,3,7,8-Pentachlorodibenzofuran	9.2		ng/kg dry	5.5	11/01/10	11/21/10	CL DLM02.0
60851-34-5	2,3,4,6,7,8-Hexachlorodibenzofuran	70		ng/kg dry	5.5	11/01/10	11/21/10	CL DLM02.0
57117-31-4	2,3,4,7,8-Pentachlorodibenzofuran	77		ng/kg dry	5.5	11/01/10	11/21/10	CL DLM02.0
1746-01-6	2,3,7,8-Tetrachlorodibenzodioxin	0.62	U, R, CLP18, CLP27	ng/kg dry	1.1	11/01/10	11/21/10	CL DLM02.0
51207-31-9	2,3,7,8-Tetrachlorodibenzofuran	2.8	CLP10	ng/kg dry	1.1	11/01/10	11/21/10	CL DLM02.0
37871-00-4	Heptachlorodibenzodioxin (Total)	14000	J, Q-3	ng/kg dry	55	11/01/10	11/29/10	CL DLM02.0
38998-75-3	Heptachlorodibenzofuran (Total)	6300	J, Q-3	ng/kg dry	5.5	11/01/10	11/21/10	CL DLM02.0
34465-46-8	Hexachlorodibenzodioxin (Total)	970	J, Q-3	ng/kg dry	5.5	11/01/10	11/21/10	CL DLM02.0
55684-94-1	Hexachlorodibenzofuran (Total)	1800	J, Q-3	ng/kg dry	5.5	11/01/10	11/21/10	CL DLM02.0
3268-87-9	Octachlorodibenzodioxin	34000		ng/kg dry	110	11/01/10	11/29/10	CL DLM02.0
39001-02-0	Octachlorodibenzofuran	2700		ng/kg dry	110	11/01/10	11/29/10	CL DLM02.0
36088-22-9	Pentachlorodibenzodioxin (Total)	91	J, Q-3	ng/kg dry	5.5	11/01/10	11/21/10	CL DLM02.0
30402-15-4	Pentachlorodibenzofuran (Total)	700	J, Q-3	ng/kg dry	5.5	11/01/10	11/21/10	CL DLM02.0
R4-0428	TEQ (Avian Toxic. Equiv. Value, WHO TEQ-98)	140		ng/kg dry	140	11/01/10	11/21/10	CL DLM02.0
R4-0429	TEQ (Fish Toxic. Equiv. Value, WHO TEQ-98)	100		ng/kg dry	100	11/01/10	11/21/10	CL DLM02.0
R4-0430	TEQ (Mammalian Toxic. Equiv. Value, WHO TEQ-2005)	140		ng/kg dry	140	11/01/10	11/21/10	CL DLM02.0
41903-57-5	Tetrachlorodibenzodioxin (Total)	9.8	J, Q-3	ng/kg dry	1.1	11/01/10	11/21/10	CL DLM02.0



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D.A.R.T. Id: 11-0019

Project: 11-0019, Tronox Inc - Reported by Jeffrey Hendel

Dioxin

Project: 11-0019, Tronox Inc

Contract Lab Case: 40729

Sample ID: 12623ASF

Lab ID: C104703-18

MD No:

Station ID: 12623

Matrix: Surface Soil

D No: SGS

Date Collected: 10/26/10 9:25

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
30402-14-3	Tetrachlorodibenzofuran (Total)	98	J, Q-3	ng/kg dry	1.1	11/01/10	11/21/10	CL DLM02.0



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D.A.R.T. Id: 11-0019

Project: 11-0019, Tronox Inc - Reported by Jeffrey Hendel

Dioxin

Project: 11-0019, Tronox Inc

Contract Lab Case: 40729

Sample ID: 12624BSF

Lab ID: C104703-19

MD No:

Station ID: 12624

Matrix: Surface Soil

D No: SGS

Date Collected: 10/25/10 16:45

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	13		%		11/04/10	11/15/10	CL DLM02.0
35822-46-9	1,2,3,4,6,7,8-Heptachlorodibenzodioxin	230		ng/kg dry	3.9	11/04/10	11/15/10	CL DLM02.0
67562-39-4	1,2,3,4,6,7,8-Heptachlorodibenzofuran	48		ng/kg dry	3.9	11/04/10	11/15/10	CL DLM02.0
55673-89-7	1,2,3,4,7,8,9-Heptachlorodibenzofuran	3.9	J, CLP01	ng/kg dry	3.9	11/04/10	11/15/10	CL DLM02.0
39227-28-6	1,2,3,4,7,8-Hexachlorodibenzodioxin	1.3	U, CLP18	ng/kg dry	3.9	11/04/10	11/15/10	CL DLM02.0
70648-26-9	1,2,3,4,7,8-Hexachlorodibenzofuran	5.1		ng/kg dry	3.9	11/04/10	11/15/10	CL DLM02.0
57653-85-7	1,2,3,6,7,8-Hexachlorodibenzodioxin	5.1		ng/kg dry	3.9	11/04/10	11/15/10	CL DLM02.0
57117-44-9	1,2,3,6,7,8-Hexachlorodibenzofuran	1.4	U, CLP18	ng/kg dry	3.9	11/04/10	11/15/10	CL DLM02.0
19408-74-3	1,2,3,7,8,9-Hexachlorodibenzodioxin	2.3	J, CLP01	ng/kg dry	3.9	11/04/10	11/15/10	CL DLM02.0
72918-21-9	1,2,3,7,8,9-Hexachlorodibenzofuran	1.4	U, CLP18	ng/kg dry	3.9	11/04/10	11/15/10	CL DLM02.0
40321-76-4	1,2,3,7,8-Pentachlorodibenzodioxin	0.70	J, CLP01	ng/kg dry	3.9	11/04/10	11/15/10	CL DLM02.0
57117-41-6	1,2,3,7,8-Pentachlorodibenzofuran	0.22	U	ng/kg dry	3.9	11/04/10	11/15/10	CL DLM02.0
60851-34-5	2,3,4,6,7,8-Hexachlorodibenzofuran	2.0	J, CLP01	ng/kg dry	3.9	11/04/10	11/15/10	CL DLM02.0
57117-31-4	2,3,4,7,8-Pentachlorodibenzofuran	1.4	J, CLP01	ng/kg dry	3.9	11/04/10	11/15/10	CL DLM02.0
1746-01-6	2,3,7,8-Tetrachlorodibenzodioxin	0.20	U, R, CLP27	ng/kg dry	0.79	11/04/10	11/15/10	CL DLM02.0
51207-31-9	2,3,7,8-Tetrachlorodibenzofuran	0.58	U, CLP18	ng/kg dry	0.79	11/04/10	11/15/10	CL DLM02.0
37871-00-4	Heptachlorodibenzodioxin (Total)	850	J, Q-3	ng/kg dry	3.9	11/04/10	11/15/10	CL DLM02.0
38998-75-3	Heptachlorodibenzofuran (Total)	320	J, Q-3	ng/kg dry	3.9	11/04/10	11/15/10	CL DLM02.0
34465-46-8	Hexachlorodibenzodioxin (Total)	40	J, Q-3	ng/kg dry	3.9	11/04/10	11/15/10	CL DLM02.0
55684-94-1	Hexachlorodibenzofuran (Total)	71	J, Q-3	ng/kg dry	3.9	11/04/10	11/15/10	CL DLM02.0
3268-87-9	Octachlorodibenzodioxin	3600	J, CLP02	ng/kg dry	7.9	11/04/10	11/15/10	CL DLM02.0
39001-02-0	Octachlorodibenzofuran	180		ng/kg dry	7.9	11/04/10	11/15/10	CL DLM02.0
36088-22-9	Pentachlorodibenzodioxin (Total)	3.2	J, Q-3	ng/kg dry	3.9	11/04/10	11/15/10	CL DLM02.0
30402-15-4	Pentachlorodibenzofuran (Total)	14	J, Q-3	ng/kg dry	3.9	11/04/10	11/15/10	CL DLM02.0
R4-0428	TEQ (Avian Toxic. Equiv. Value, WHO TEQ-98)	5.4	J, D-5	ng/kg dry	5.4	11/04/10	11/15/10	CL DLM02.0
R4-0429	TEQ (Fish Toxic. Equiv. Value, WHO TEQ-98)	4.5	J, D-5	ng/kg dry	4.5	11/04/10	11/15/10	CL DLM02.0
R4-0430	TEQ (Mammalian Toxic. Equiv. Value, WHO TEQ-2005)	7.2	J, D-5	ng/kg dry	7.2	11/04/10	11/15/10	CL DLM02.0
41903-57-5	Tetrachlorodibenzodioxin (Total)	0.20	U, J, Q-3	ng/kg dry	0.79	11/04/10	11/15/10	CL DLM02.0



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Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0019
Project: 11-0019, Tronox Inc - Reported by Jeffrey Hendel

Dioxin

Project: 11-0019, Tronox Inc

Contract Lab Case: 40729

Sample ID: 12624BSF

Lab ID: C104703-19

MD No:

Station ID: 12624

Matrix: Surface Soil

D No: SGS

Date Collected: 10/25/10 16:45

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
30402-14-3	Tetrachlorodibenzofuran (Total)	1.5	J, Q-3	ng/kg dry	0.79	11/04/10	11/15/10	CL DLM02.0



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
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D.A.R.T. Id: 11-0019

Project: 11-0019, Tronox Inc - Reported by Jeffrey Hendel

Dioxin

Project: 11-0019, Tronox Inc

Contract Lab Case: 40729

Sample ID: 12629ASF

Lab ID: C104703-20

MD No:

Station ID: 12629

Matrix: Surface Soil

D No: SGS

Date Collected: 10/26/10 8:25

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	16		%		11/08/10	11/22/10	CL DLM02.0
35822-46-9	1,2,3,4,6,7,8-Heptachlorodibenzodioxin	3300		ng/kg dry	48	11/08/10	12/08/10	CL DLM02.0
67562-39-4	1,2,3,4,6,7,8-Heptachlorodibenzofuran	510		ng/kg dry	4.8	11/08/10	11/22/10	CL DLM02.0
55673-89-7	1,2,3,4,7,8,9-Heptachlorodibenzofuran	40		ng/kg dry	4.8	11/08/10	11/22/10	CL DLM02.0
39227-28-6	1,2,3,4,7,8-Hexachlorodibenzodioxin	11	U, CLP18	ng/kg dry	4.8	11/08/10	11/22/10	CL DLM02.0
70648-26-9	1,2,3,4,7,8-Hexachlorodibenzofuran	59		ng/kg dry	4.8	11/08/10	11/22/10	CL DLM02.0
57653-85-7	1,2,3,6,7,8-Hexachlorodibenzodioxin	59		ng/kg dry	4.8	11/08/10	11/22/10	CL DLM02.0
57117-44-9	1,2,3,6,7,8-Hexachlorodibenzofuran	15		ng/kg dry	4.8	11/08/10	11/22/10	CL DLM02.0
19408-74-3	1,2,3,7,8,9-Hexachlorodibenzodioxin	21		ng/kg dry	4.8	11/08/10	11/22/10	CL DLM02.0
72918-21-9	1,2,3,7,8,9-Hexachlorodibenzofuran	14		ng/kg dry	4.8	11/08/10	11/22/10	CL DLM02.0
40321-76-4	1,2,3,7,8-Pentachlorodibenzodioxin	2.9	U, CLP18	ng/kg dry	4.8	11/08/10	11/22/10	CL DLM02.0
57117-41-6	1,2,3,7,8-Pentachlorodibenzofuran	3.5	J, CLP01	ng/kg dry	4.8	11/08/10	11/22/10	CL DLM02.0
60851-34-5	2,3,4,6,7,8-Hexachlorodibenzofuran	22		ng/kg dry	4.8	11/08/10	11/22/10	CL DLM02.0
57117-31-4	2,3,4,7,8-Pentachlorodibenzofuran	13		ng/kg dry	4.8	11/08/10	11/22/10	CL DLM02.0
1746-01-6	2,3,7,8-Tetrachlorodibenzodioxin	0.46	U, R, CLP27	ng/kg dry	0.96	11/08/10	11/22/10	CL DLM02.0
51207-31-9	2,3,7,8-Tetrachlorodibenzofuran	0.92	J, CLP01, CLP10	ng/kg dry	0.96	11/08/10	11/22/10	CL DLM02.0
37871-00-4	Heptachlorodibenzodioxin (Total)	11000	J, Q-3	ng/kg dry	48	11/08/10	12/08/10	CL DLM02.0
38998-75-3	Heptachlorodibenzofuran (Total)	2800	J, Q-3	ng/kg dry	4.8	11/08/10	11/22/10	CL DLM02.0
34465-46-8	Hexachlorodibenzodioxin (Total)	370	J, Q-3	ng/kg dry	4.8	11/08/10	11/22/10	CL DLM02.0
55684-94-1	Hexachlorodibenzofuran (Total)	660	J, Q-3	ng/kg dry	4.8	11/08/10	11/22/10	CL DLM02.0
3268-87-9	Octachlorodibenzodioxin	42000	J, CLP02	ng/kg dry	96	11/08/10	12/08/10	CL DLM02.0
39001-02-0	Octachlorodibenzofuran	1600		ng/kg dry	9.6	11/08/10	11/22/10	CL DLM02.0
36088-22-9	Pentachlorodibenzodioxin (Total)	27	J, Q-3	ng/kg dry	4.8	11/08/10	11/22/10	CL DLM02.0
30402-15-4	Pentachlorodibenzofuran (Total)	100	J, Q-3	ng/kg dry	4.8	11/08/10	11/22/10	CL DLM02.0
R4-0428	TEQ (Avian Toxic. Equiv. Value, WHO TEQ-98)	45	J, D-5	ng/kg dry	45	11/08/10	11/22/10	CL DLM02.0
R4-0429	TEQ (Fish Toxic. Equiv. Value, WHO TEQ-98)	40	J, D-5	ng/kg dry	40	11/08/10	11/22/10	CL DLM02.0
R4-0430	TEQ (Mammalian Toxic. Equiv. Value, WHO TEQ-2005)	79	J, D-5	ng/kg dry	79	11/08/10	11/22/10	CL DLM02.0
41903-57-5	Tetrachlorodibenzodioxin (Total)	3.1	J, Q-3	ng/kg dry	0.96	11/08/10	11/22/10	CL DLM02.0



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0019

Project: 11-0019, Tronox Inc - Reported by Jeffrey Hendel

Dioxin

Project: 11-0019, Tronox Inc

Contract Lab Case: 40729

Sample ID: 12629ASF

Lab ID: C104703-20

MD No:

Station ID: 12629

Matrix: Surface Soil

D No: SGS

Date Collected: 10/26/10 8:25

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
30402-14-3	Tetrachlorodibenzofuran (Total)	8.6	J, Q-3	ng/kg dry	0.96	11/08/10	11/22/10	CL DLM02.0



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D.A.R.T. Id: 11-0019

Project: 11-0019, Tronox Inc - Reported by Jeffrey Hendel

Dioxin

Project: 11-0019, Tronox Inc

Contract Lab Case: 40729

Sample ID: 12630ASF

Lab ID: C104703-21

MD No:

Station ID: 12630

Matrix: Surface Soil

D No: SGS

Date Collected: 10/25/10 17:03

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	13		%		11/04/10	11/15/10	CL DLM02.0
35822-46-9	1,2,3,4,6,7,8-Heptachlorodibenzodioxin	160		ng/kg dry	4.8	11/04/10	11/15/10	CL DLM02.0
67562-39-4	1,2,3,4,6,7,8-Heptachlorodibenzofuran	33	U, D-4	ng/kg dry	4.8	11/04/10	11/15/10	CL DLM02.0
55673-89-7	1,2,3,4,7,8,9-Heptachlorodibenzofuran	1.5	U	ng/kg dry	4.8	11/04/10	11/15/10	CL DLM02.0
39227-28-6	1,2,3,4,7,8-Hexachlorodibenzodioxin	1.4	U, CLP18	ng/kg dry	4.8	11/04/10	11/15/10	CL DLM02.0
70648-26-9	1,2,3,4,7,8-Hexachlorodibenzofuran	2.4	J, CLP01	ng/kg dry	4.8	11/04/10	11/15/10	CL DLM02.0
57653-85-7	1,2,3,6,7,8-Hexachlorodibenzodioxin	3.8	J, CLP01	ng/kg dry	4.8	11/04/10	11/15/10	CL DLM02.0
57117-44-9	1,2,3,6,7,8-Hexachlorodibenzofuran	0.52	U	ng/kg dry	4.8	11/04/10	11/15/10	CL DLM02.0
19408-74-3	1,2,3,7,8,9-Hexachlorodibenzodioxin	2.6	J, CLP01	ng/kg dry	4.8	11/04/10	11/15/10	CL DLM02.0
72918-21-9	1,2,3,7,8,9-Hexachlorodibenzofuran	1.1	U	ng/kg dry	4.8	11/04/10	11/15/10	CL DLM02.0
40321-76-4	1,2,3,7,8-Pentachlorodibenzodioxin	0.41	U	ng/kg dry	4.8	11/04/10	11/15/10	CL DLM02.0
57117-41-6	1,2,3,7,8-Pentachlorodibenzofuran	0.17	U	ng/kg dry	4.8	11/04/10	11/15/10	CL DLM02.0
60851-34-5	2,3,4,6,7,8-Hexachlorodibenzofuran	1.5	U, CLP18	ng/kg dry	4.8	11/04/10	11/15/10	CL DLM02.0
57117-31-4	2,3,4,7,8-Pentachlorodibenzofuran	0.66	U, CLP18	ng/kg dry	4.8	11/04/10	11/15/10	CL DLM02.0
1746-01-6	2,3,7,8-Tetrachlorodibenzodioxin	0.23	U, R, CLP27	ng/kg dry	0.95	11/04/10	11/15/10	CL DLM02.0
51207-31-9	2,3,7,8-Tetrachlorodibenzofuran	0.38	U	ng/kg dry	0.95	11/04/10	11/15/10	CL DLM02.0
37871-00-4	Heptachlorodibenzodioxin (Total)	640	J, Q-3	ng/kg dry	4.8	11/04/10	11/15/10	CL DLM02.0
38998-75-3	Heptachlorodibenzofuran (Total)	140	J, Q-3	ng/kg dry	4.8	11/04/10	11/15/10	CL DLM02.0
34465-46-8	Hexachlorodibenzodioxin (Total)	41	J, Q-3	ng/kg dry	4.8	11/04/10	11/15/10	CL DLM02.0
55684-94-1	Hexachlorodibenzofuran (Total)	35	J, Q-3	ng/kg dry	4.8	11/04/10	11/15/10	CL DLM02.0
3268-87-9	Octachlorodibenzodioxin	2400		ng/kg dry	9.5	11/04/10	11/15/10	CL DLM02.0
39001-02-0	Octachlorodibenzofuran	76		ng/kg dry	9.5	11/04/10	11/15/10	CL DLM02.0
36088-22-9	Pentachlorodibenzodioxin (Total)	7.0	J, Q-3	ng/kg dry	4.8	11/04/10	11/15/10	CL DLM02.0
30402-15-4	Pentachlorodibenzofuran (Total)	8.2	J, Q-3	ng/kg dry	4.8	11/04/10	11/15/10	CL DLM02.0
R4-0428	TEQ (Avian Toxic. Equiv. Value, WHO TEQ-98)	3.4	J, D-5	ng/kg dry	3.4	11/04/10	11/15/10	CL DLM02.0
R4-0429	TEQ (Fish Toxic. Equiv. Value, WHO TEQ-98)	3.1	J, D-5	ng/kg dry	3.1	11/04/10	11/15/10	CL DLM02.0
R4-0430	TEQ (Mammalian Toxic. Equiv. Value, WHO TEQ-2005)	4.9	J, D-5	ng/kg dry	4.9	11/04/10	11/15/10	CL DLM02.0
41903-57-5	Tetrachlorodibenzodioxin (Total)	0.61	J, Q-3	ng/kg dry	0.95	11/04/10	11/15/10	CL DLM02.0



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D.A.R.T. Id: 11-0019
Project: 11-0019, Tronox Inc - Reported by Jeffrey Hendel

Dioxin

Project: 11-0019, Tronox Inc

Contract Lab Case: 40729

Sample ID: 12630ASF

Lab ID: C104703-21

MD No:

Station ID: 12630

Matrix: Surface Soil

D No: SGS

Date Collected: 10/25/10 17:03

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
30402-14-3	Tetrachlorodibenzofuran (Total)	0.60	J, Q-3	ng/kg dry	0.95	11/04/10	11/15/10	CL DLM02.0



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D.A.R.T. Id: 11-0019

Project: 11-0019, Tronox Inc - Reported by Jeffrey Hendel

Dioxin

Project: 11-0019, Tronox Inc

Contract Lab Case: 40729

Sample ID: 12633ASF

Lab ID: C104703-22

MD No:

Station ID: 12633

Matrix: Surface Soil

D No: SGS

Date Collected: 10/26/10 8:50

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	11		%		11/04/10	11/30/10	CL DLM02.0
35822-46-9	1,2,3,4,6,7,8-Heptachlorodibenzodioxin	120		ng/kg dry	4.3	11/04/10	11/30/10	CL DLM02.0
67562-39-4	1,2,3,4,6,7,8-Heptachlorodibenzofuran	43		ng/kg dry	4.3	11/04/10	11/30/10	CL DLM02.0
55673-89-7	1,2,3,4,7,8,9-Heptachlorodibenzofuran	1.5	U, CLP18	ng/kg dry	4.3	11/04/10	11/30/10	CL DLM02.0
39227-28-6	1,2,3,4,7,8-Hexachlorodibenzodioxin	1.3	J, CLP01	ng/kg dry	4.3	11/04/10	11/30/10	CL DLM02.0
70648-26-9	1,2,3,4,7,8-Hexachlorodibenzofuran	1.8	J, CLP01	ng/kg dry	4.3	11/04/10	11/30/10	CL DLM02.0
57653-85-7	1,2,3,6,7,8-Hexachlorodibenzodioxin	4.4		ng/kg dry	4.3	11/04/10	11/30/10	CL DLM02.0
57117-44-9	1,2,3,6,7,8-Hexachlorodibenzofuran	0.89	J, CLP01	ng/kg dry	4.3	11/04/10	11/30/10	CL DLM02.0
19408-74-3	1,2,3,7,8,9-Hexachlorodibenzodioxin	3.4	U, CLP18	ng/kg dry	4.3	11/04/10	11/30/10	CL DLM02.0
72918-21-9	1,2,3,7,8,9-Hexachlorodibenzofuran	0.71	U	ng/kg dry	4.3	11/04/10	11/30/10	CL DLM02.0
40321-76-4	1,2,3,7,8-Pentachlorodibenzodioxin	0.76	U, CLP18	ng/kg dry	4.3	11/04/10	11/30/10	CL DLM02.0
57117-41-6	1,2,3,7,8-Pentachlorodibenzofuran	0.38	U, CLP18	ng/kg dry	4.3	11/04/10	11/30/10	CL DLM02.0
60851-34-5	2,3,4,6,7,8-Hexachlorodibenzofuran	1.8	J, CLP01	ng/kg dry	4.3	11/04/10	11/30/10	CL DLM02.0
57117-31-4	2,3,4,7,8-Pentachlorodibenzofuran	0.80	U, CLP18	ng/kg dry	4.3	11/04/10	11/30/10	CL DLM02.0
1746-01-6	2,3,7,8-Tetrachlorodibenzodioxin	0.33	U, R, CLP27	ng/kg dry	0.86	11/04/10	11/30/10	CL DLM02.0
51207-31-9	2,3,7,8-Tetrachlorodibenzofuran	0.46	U	ng/kg dry	0.86	11/04/10	11/30/10	CL DLM02.0
37871-00-4	Heptachlorodibenzodioxin (Total)	370	J, Q-3	ng/kg dry	4.3	11/04/10	11/30/10	CL DLM02.0
38998-75-3	Heptachlorodibenzofuran (Total)	120	J, Q-3	ng/kg dry	4.3	11/04/10	11/30/10	CL DLM02.0
34465-46-8	Hexachlorodibenzodioxin (Total)	40	J, Q-3	ng/kg dry	4.3	11/04/10	11/30/10	CL DLM02.0
55684-94-1	Hexachlorodibenzofuran (Total)	33	J, Q-3	ng/kg dry	4.3	11/04/10	11/30/10	CL DLM02.0
3268-87-9	Octachlorodibenzodioxin	1200		ng/kg dry	8.6	11/04/10	11/30/10	CL DLM02.0
39001-02-0	Octachlorodibenzofuran	60		ng/kg dry	8.6	11/04/10	11/30/10	CL DLM02.0
36088-22-9	Pentachlorodibenzodioxin (Total)	6.8	J, Q-3	ng/kg dry	4.3	11/04/10	11/30/10	CL DLM02.0
30402-15-4	Pentachlorodibenzofuran (Total)	9.5	J, Q-3	ng/kg dry	4.3	11/04/10	11/30/10	CL DLM02.0
R4-0428	TEQ (Avian Toxic. Equiv. Value, WHO TEQ-98)	4.0	J, D-5	ng/kg dry	4.0	11/04/10	11/30/10	CL DLM02.0
R4-0429	TEQ (Fish Toxic. Equiv. Value, WHO TEQ-98)	3.5	J, D-5	ng/kg dry	3.5	11/04/10	11/30/10	CL DLM02.0
R4-0430	TEQ (Mammalian Toxic. Equiv. Value, WHO TEQ-2005)	4.9	J, D-5	ng/kg dry	4.9	11/04/10	11/30/10	CL DLM02.0
41903-57-5	Tetrachlorodibenzodioxin (Total)	0.33	U, J, Q-3	ng/kg dry	0.86	11/04/10	11/30/10	CL DLM02.0



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0019

Project: 11-0019, Tronox Inc - Reported by Jeffrey Hendel

Dioxin

Project: 11-0019, Tronox Inc

Contract Lab Case: 40729

Sample ID: 12633ASF

Lab ID: C104703-22

MD No:

Station ID: 12633

Matrix: Surface Soil

D No: SGS

Date Collected: 10/26/10 8:50

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
30402-14-3	Tetrachlorodibenzofuran (Total)	0.84	J, Q-3	ng/kg dry	0.86	11/04/10	11/30/10	CL DLM02.0



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D.A.R.T. Id: 11-0019

Project: 11-0019, Tronox Inc - Reported by Jeffrey Hendel

Dioxin

Project: 11-0019, Tronox Inc

Contract Lab Case: 40729

Sample ID: 12634ASF

Lab ID: C104703-23

MD No:

Station ID: 12634

Matrix: Surface Soil

D No: SGS

Date Collected: 10/26/10 9:07

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	15		%		11/08/10	11/30/10	CL DLM02.0
35822-46-9	1,2,3,4,6,7,8-Heptachlorodibenzodioxin	380		ng/kg dry	4.9	11/08/10	11/30/10	CL DLM02.0
67562-39-4	1,2,3,4,6,7,8-Heptachlorodibenzofuran	110	U, D-4	ng/kg dry	4.9	11/08/10	11/30/10	CL DLM02.0
55673-89-7	1,2,3,4,7,8,9-Heptachlorodibenzofuran	5.9		ng/kg dry	4.9	11/08/10	11/30/10	CL DLM02.0
39227-28-6	1,2,3,4,7,8-Hexachlorodibenzodioxin	3.2	J, CLP01	ng/kg dry	4.9	11/08/10	11/30/10	CL DLM02.0
70648-26-9	1,2,3,4,7,8-Hexachlorodibenzofuran	5.6		ng/kg dry	4.9	11/08/10	11/30/10	CL DLM02.0
57653-85-7	1,2,3,6,7,8-Hexachlorodibenzodioxin	13		ng/kg dry	4.9	11/08/10	11/30/10	CL DLM02.0
57117-44-9	1,2,3,6,7,8-Hexachlorodibenzofuran	3.8	J, CLP01	ng/kg dry	4.9	11/08/10	11/30/10	CL DLM02.0
19408-74-3	1,2,3,7,8,9-Hexachlorodibenzodioxin	7.8		ng/kg dry	4.9	11/08/10	11/30/10	CL DLM02.0
72918-21-9	1,2,3,7,8,9-Hexachlorodibenzofuran	1.3	J, CLP01	ng/kg dry	4.9	11/08/10	11/30/10	CL DLM02.0
40321-76-4	1,2,3,7,8-Pentachlorodibenzodioxin	1.6	J, CLP01	ng/kg dry	4.9	11/08/10	11/30/10	CL DLM02.0
57117-41-6	1,2,3,7,8-Pentachlorodibenzofuran	0.63	J, CLP01	ng/kg dry	4.9	11/08/10	11/30/10	CL DLM02.0
60851-34-5	2,3,4,6,7,8-Hexachlorodibenzofuran	5.7		ng/kg dry	4.9	11/08/10	11/30/10	CL DLM02.0
57117-31-4	2,3,4,7,8-Pentachlorodibenzofuran	3.4	J, CLP01	ng/kg dry	4.9	11/08/10	11/30/10	CL DLM02.0
1746-01-6	2,3,7,8-Tetrachlorodibenzodioxin	0.25	U, R, CLP27	ng/kg dry	0.98	11/08/10	11/30/10	CL DLM02.0
51207-31-9	2,3,7,8-Tetrachlorodibenzofuran	0.64	J, CLP01, CLP24	ng/kg dry	0.98	11/08/10	11/30/10	CL DLM02.0
37871-00-4	Heptachlorodibenzodioxin (Total)	1100	J, Q-3	ng/kg dry	4.9	11/08/10	11/30/10	CL DLM02.0
38998-75-3	Heptachlorodibenzofuran (Total)	390	J, Q-3	ng/kg dry	4.9	11/08/10	11/30/10	CL DLM02.0
34465-46-8	Hexachlorodibenzodioxin (Total)	96	J, Q-3	ng/kg dry	4.9	11/08/10	11/30/10	CL DLM02.0
55684-94-1	Hexachlorodibenzofuran (Total)	110	J, Q-3	ng/kg dry	4.9	11/08/10	11/30/10	CL DLM02.0
3268-87-9	Octachlorodibenzodioxin	4100	J, CLP02	ng/kg dry	9.8	11/08/10	11/30/10	CL DLM02.0
39001-02-0	Octachlorodibenzofuran	390		ng/kg dry	9.8	11/08/10	11/30/10	CL DLM02.0
36088-22-9	Pentachlorodibenzodioxin (Total)	19	J, Q-3	ng/kg dry	4.9	11/08/10	11/30/10	CL DLM02.0
30402-15-4	Pentachlorodibenzofuran (Total)	47	J, Q-3	ng/kg dry	4.9	11/08/10	11/30/10	CL DLM02.0
R4-0428	TEQ (Avian Toxic. Equiv. Value, WHO TEQ-98)	11	J, D-5	ng/kg dry	11	11/08/10	11/30/10	CL DLM02.0
R4-0429	TEQ (Fish Toxic. Equiv. Value, WHO TEQ-98)	9.0	J, D-5	ng/kg dry	9.0	11/08/10	11/30/10	CL DLM02.0
R4-0430	TEQ (Mammalian Toxic. Equiv. Value, WHO TEQ-2005)	13	J, D-5	ng/kg dry	13	11/08/10	11/30/10	CL DLM02.0
41903-57-5	Tetrachlorodibenzodioxin (Total)	0.25	U, J, Q-3	ng/kg dry	0.98	11/08/10	11/30/10	CL DLM02.0



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D.A.R.T. Id: 11-0019

Project: 11-0019, Tronox Inc - Reported by Jeffrey Hendel

Dioxin

Project: 11-0019, Tronox Inc

Contract Lab Case: 40729

Sample ID: 12634ASF

Lab ID: C104703-23

MD No:

Station ID: 12634

Matrix: Surface Soil

D No: SGS

Date Collected: 10/26/10 9:07

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
30402-14-3	Tetrachlorodibenzofuran (Total)	7.3	J, Q-3	ng/kg dry	0.98	11/08/10	11/30/10	CL DLM02.0



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D.A.R.T. Id: 11-0019

Project: 11-0019, Tronox Inc - Reported by Jeffrey Hendel

Dioxin

Project: 11-0019, Tronox Inc

Contract Lab Case: 40729

Sample ID: 13723ASF

Lab ID: C104703-24

MD No:

Station ID: 13723

Matrix: Surface Soil

D No: SGS

Date Collected: 10/25/10 17:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	16		%		11/08/10	11/22/10	CL DLM02.0
35822-46-9	1,2,3,4,6,7,8-Heptachlorodibenzodioxin	3000		ng/kg dry	49	11/08/10	11/30/10	CL DLM02.0
67562-39-4	1,2,3,4,6,7,8-Heptachlorodibenzofuran	770		ng/kg dry	4.9	11/08/10	11/22/10	CL DLM02.0
55673-89-7	1,2,3,4,7,8,9-Heptachlorodibenzofuran	59		ng/kg dry	4.9	11/08/10	11/22/10	CL DLM02.0
39227-28-6	1,2,3,4,7,8-Hexachlorodibenzodioxin	15		ng/kg dry	4.9	11/08/10	11/22/10	CL DLM02.0
70648-26-9	1,2,3,4,7,8-Hexachlorodibenzofuran	94		ng/kg dry	4.9	11/08/10	11/22/10	CL DLM02.0
57653-85-7	1,2,3,6,7,8-Hexachlorodibenzodioxin	87		ng/kg dry	4.9	11/08/10	11/22/10	CL DLM02.0
57117-44-9	1,2,3,6,7,8-Hexachlorodibenzofuran	24		ng/kg dry	4.9	11/08/10	11/22/10	CL DLM02.0
19408-74-3	1,2,3,7,8,9-Hexachlorodibenzodioxin	32		ng/kg dry	4.9	11/08/10	11/22/10	CL DLM02.0
72918-21-9	1,2,3,7,8,9-Hexachlorodibenzofuran	20		ng/kg dry	4.9	11/08/10	11/22/10	CL DLM02.0
40321-76-4	1,2,3,7,8-Pentachlorodibenzodioxin	4.5	U, CLP18	ng/kg dry	4.9	11/08/10	11/22/10	CL DLM02.0
57117-41-6	1,2,3,7,8-Pentachlorodibenzofuran	4.0	J, CLP01	ng/kg dry	4.9	11/08/10	11/22/10	CL DLM02.0
60851-34-5	2,3,4,6,7,8-Hexachlorodibenzofuran	35		ng/kg dry	4.9	11/08/10	11/22/10	CL DLM02.0
57117-31-4	2,3,4,7,8-Pentachlorodibenzofuran	18		ng/kg dry	4.9	11/08/10	11/22/10	CL DLM02.0
1746-01-6	2,3,7,8-Tetrachlorodibenzodioxin	0.55	U, R, CLP27	ng/kg dry	0.98	11/08/10	11/22/10	CL DLM02.0
51207-31-9	2,3,7,8-Tetrachlorodibenzofuran	1.6	CLP10	ng/kg dry	0.98	11/08/10	11/22/10	CL DLM02.0
37871-00-4	Heptachlorodibenzodioxin (Total)	9700	J, Q-3	ng/kg dry	49	11/08/10	11/30/10	CL DLM02.0
38998-75-3	Heptachlorodibenzofuran (Total)	4200	J, Q-3	ng/kg dry	4.9	11/08/10	11/22/10	CL DLM02.0
34465-46-8	Hexachlorodibenzodioxin (Total)	530	J, Q-3	ng/kg dry	4.9	11/08/10	11/22/10	CL DLM02.0
55684-94-1	Hexachlorodibenzofuran (Total)	990	J, Q-3	ng/kg dry	4.9	11/08/10	11/22/10	CL DLM02.0
3268-87-9	Octachlorodibenzodioxin	36000		ng/kg dry	98	11/08/10	11/30/10	CL DLM02.0
39001-02-0	Octachlorodibenzofuran	2300		ng/kg dry	9.8	11/08/10	11/22/10	CL DLM02.0
36088-22-9	Pentachlorodibenzodioxin (Total)	54	J, Q-3	ng/kg dry	4.9	11/08/10	11/22/10	CL DLM02.0
30402-15-4	Pentachlorodibenzofuran (Total)	150	J, Q-3	ng/kg dry	4.9	11/08/10	11/22/10	CL DLM02.0
R4-0428	TEQ (Avian Toxic. Equiv. Value, WHO TEQ-98)	62	D-5	ng/kg dry	62	11/08/10	11/22/10	CL DLM02.0
R4-0429	TEQ (Fish Toxic. Equiv. Value, WHO TEQ-98)	55	D-5	ng/kg dry	55	11/08/10	11/22/10	CL DLM02.0
R4-0430	TEQ (Mammalian Toxic. Equiv. Value, WHO TEQ-2005)	91	D-5	ng/kg dry	91	11/08/10	11/22/10	CL DLM02.0
41903-57-5	Tetrachlorodibenzodioxin (Total)	12	J, Q-3	ng/kg dry	0.98	11/08/10	11/22/10	CL DLM02.0



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0019

Project: 11-0019, Tronox Inc - Reported by Jeffrey Hendel

Dioxin

Project: 11-0019, Tronox Inc

Contract Lab Case: 40729

Sample ID: 13723ASF

Lab ID: C104703-24

MD No:

Station ID: 13723

Matrix: Surface Soil

D No: SGS

Date Collected: 10/25/10 17:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
30402-14-3	Tetrachlorodibenzofuran (Total)	16	J, Q-3	ng/kg dry	0.98	11/08/10	11/22/10	CL DLM02.0



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D.A.R.T. Id: 11-0019

Project: 11-0019, Tronox Inc - Reported by Jeffrey Hendel

Dioxin

Project: 11-0019, Tronox Inc

Contract Lab Case: 40729

Sample ID: 13743ASF

Lab ID: C104703-25

MD No:

Station ID: 13743

Matrix: Surface Soil

D No: SGS

Date Collected: 10/25/10 17:20

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	15		%		11/08/10	11/30/10	CL DLM02.0
35822-46-9	1,2,3,4,6,7,8-Heptachlorodibenzodioxin	410		ng/kg dry	4.7	11/08/10	11/30/10	CL DLM02.0
67562-39-4	1,2,3,4,6,7,8-Heptachlorodibenzofuran	85	U, D-4	ng/kg dry	4.7	11/08/10	11/30/10	CL DLM02.0
55673-89-7	1,2,3,4,7,8,9-Heptachlorodibenzofuran	5.6		ng/kg dry	4.7	11/08/10	11/30/10	CL DLM02.0
39227-28-6	1,2,3,4,7,8-Hexachlorodibenzodioxin	3.1	U, CLP18	ng/kg dry	4.7	11/08/10	11/30/10	CL DLM02.0
70648-26-9	1,2,3,4,7,8-Hexachlorodibenzofuran	8.4		ng/kg dry	4.7	11/08/10	11/30/10	CL DLM02.0
57653-85-7	1,2,3,6,7,8-Hexachlorodibenzodioxin	12		ng/kg dry	4.7	11/08/10	11/30/10	CL DLM02.0
57117-44-9	1,2,3,6,7,8-Hexachlorodibenzofuran	2.6	J, CLP01	ng/kg dry	4.7	11/08/10	11/30/10	CL DLM02.0
19408-74-3	1,2,3,7,8,9-Hexachlorodibenzodioxin	6.8	U, CLP18	ng/kg dry	4.7	11/08/10	11/30/10	CL DLM02.0
72918-21-9	1,2,3,7,8,9-Hexachlorodibenzofuran	1.8	J, CLP01	ng/kg dry	4.7	11/08/10	11/30/10	CL DLM02.0
40321-76-4	1,2,3,7,8-Pentachlorodibenzodioxin	1.5	J, CLP01	ng/kg dry	4.7	11/08/10	11/30/10	CL DLM02.0
57117-41-6	1,2,3,7,8-Pentachlorodibenzofuran	0.44	J, CLP01	ng/kg dry	4.7	11/08/10	11/30/10	CL DLM02.0
60851-34-5	2,3,4,6,7,8-Hexachlorodibenzofuran	4.1	J, CLP01	ng/kg dry	4.7	11/08/10	11/30/10	CL DLM02.0
57117-31-4	2,3,4,7,8-Pentachlorodibenzofuran	1.8	J, CLP01	ng/kg dry	4.7	11/08/10	11/30/10	CL DLM02.0
1746-01-6	2,3,7,8-Tetrachlorodibenzodioxin	0.43	U, R, CLP27	ng/kg dry	0.95	11/08/10	11/30/10	CL DLM02.0
51207-31-9	2,3,7,8-Tetrachlorodibenzofuran	0.76	U, CLP18	ng/kg dry	0.95	11/08/10	11/30/10	CL DLM02.0
37871-00-4	Heptachlorodibenzodioxin (Total)	1400	J, Q-3	ng/kg dry	4.7	11/08/10	11/30/10	CL DLM02.0
38998-75-3	Heptachlorodibenzofuran (Total)	350	J, Q-3	ng/kg dry	4.7	11/08/10	11/30/10	CL DLM02.0
34465-46-8	Hexachlorodibenzodioxin (Total)	95	J, Q-3	ng/kg dry	4.7	11/08/10	11/30/10	CL DLM02.0
55684-94-1	Hexachlorodibenzofuran (Total)	95	J, Q-3	ng/kg dry	4.7	11/08/10	11/30/10	CL DLM02.0
3268-87-9	Octachlorodibenzodioxin	5400	J, CLP02	ng/kg dry	9.5	11/08/10	11/30/10	CL DLM02.0
39001-02-0	Octachlorodibenzofuran	190		ng/kg dry	9.5	11/08/10	11/30/10	CL DLM02.0
36088-22-9	Pentachlorodibenzodioxin (Total)	13	J, Q-3	ng/kg dry	4.7	11/08/10	11/30/10	CL DLM02.0
30402-15-4	Pentachlorodibenzofuran (Total)	19	J, Q-3	ng/kg dry	4.7	11/08/10	11/30/10	CL DLM02.0
R4-0428	TEQ (Avian Toxic. Equiv. Value, WHO TEQ-98)	9.1	J, D-5	ng/kg dry	9.1	11/08/10	11/30/10	CL DLM02.0
R4-0429	TEQ (Fish Toxic. Equiv. Value, WHO TEQ-98)	8.2	J, D-5	ng/kg dry	8.2	11/08/10	11/30/10	CL DLM02.0
R4-0430	TEQ (Mammalian Toxic. Equiv. Value, WHO TEQ-2005)	13	J, D-5	ng/kg dry	13	11/08/10	11/30/10	CL DLM02.0
41903-57-5	Tetrachlorodibenzodioxin (Total)	0.61	J, Q-3	ng/kg dry	0.95	11/08/10	11/30/10	CL DLM02.0



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Region 4 Science and Ecosystem Support Division
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D.A.R.T. Id: 11-0019
Project: 11-0019, Tronox Inc - Reported by Jeffrey Hendel

Dioxin

Project: 11-0019, Tronox Inc

Contract Lab Case: 40729

Sample ID: 13743ASF

Lab ID: C104703-25

MD No:

Station ID: 13743

Matrix: Surface Soil

D No: SGS

Date Collected: 10/25/10 17:20

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
30402-14-3	Tetrachlorodibenzofuran (Total)	3.8	J, Q-3	ng/kg dry	0.95	11/08/10	11/30/10	CL DLM02.0



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D.A.R.T. Id: 11-0019

Project: 11-0019, Tronox Inc - Reported by Jeffrey Hendel

Dioxin

Project: 11-0019, Tronox Inc

Contract Lab Case: 40729

Sample ID: 13744ASF

Lab ID: C104703-26

MD No:

Station ID: 13744A

Matrix: Surface Soil

D No: SGS

Date Collected: 10/25/10 15:50

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	20		%		11/08/10	11/22/10	CL DLM02.0
35822-46-9	1,2,3,4,6,7,8-Heptachlorodibenzodioxin	1900		ng/kg dry	48	11/08/10	12/01/10	CL DLM02.0
67562-39-4	1,2,3,4,6,7,8-Heptachlorodibenzofuran	520		ng/kg dry	4.8	11/08/10	11/22/10	CL DLM02.0
55673-89-7	1,2,3,4,7,8,9-Heptachlorodibenzofuran	40		ng/kg dry	4.8	11/08/10	11/22/10	CL DLM02.0
39227-28-6	1,2,3,4,7,8-Hexachlorodibenzodioxin	12		ng/kg dry	4.8	11/08/10	11/22/10	CL DLM02.0
70648-26-9	1,2,3,4,7,8-Hexachlorodibenzofuran	59		ng/kg dry	4.8	11/08/10	11/22/10	CL DLM02.0
57653-85-7	1,2,3,6,7,8-Hexachlorodibenzodioxin	64		ng/kg dry	4.8	11/08/10	11/22/10	CL DLM02.0
57117-44-9	1,2,3,6,7,8-Hexachlorodibenzofuran	16		ng/kg dry	4.8	11/08/10	11/22/10	CL DLM02.0
19408-74-3	1,2,3,7,8,9-Hexachlorodibenzodioxin	24		ng/kg dry	4.8	11/08/10	11/22/10	CL DLM02.0
72918-21-9	1,2,3,7,8,9-Hexachlorodibenzofuran	12		ng/kg dry	4.8	11/08/10	11/22/10	CL DLM02.0
40321-76-4	1,2,3,7,8-Pentachlorodibenzodioxin	3.4	J, CLP01	ng/kg dry	4.8	11/08/10	11/22/10	CL DLM02.0
57117-41-6	1,2,3,7,8-Pentachlorodibenzofuran	2.7	J, CLP01	ng/kg dry	4.8	11/08/10	11/22/10	CL DLM02.0
60851-34-5	2,3,4,6,7,8-Hexachlorodibenzofuran	24		ng/kg dry	4.8	11/08/10	11/22/10	CL DLM02.0
57117-31-4	2,3,4,7,8-Pentachlorodibenzofuran	11		ng/kg dry	4.8	11/08/10	11/22/10	CL DLM02.0
1746-01-6	2,3,7,8-Tetrachlorodibenzodioxin	0.44	U, R, CLP27	ng/kg dry	0.97	11/08/10	11/22/10	CL DLM02.0
51207-31-9	2,3,7,8-Tetrachlorodibenzofuran	0.94	J, CLP01, CLP24	ng/kg dry	0.97	11/08/10	11/22/10	CL DLM02.0
37871-00-4	Heptachlorodibenzodioxin (Total)	6500	J, Q-3	ng/kg dry	48	11/08/10	12/01/10	CL DLM02.0
38998-75-3	Heptachlorodibenzofuran (Total)	2800	J, Q-3	ng/kg dry	4.8	11/08/10	11/22/10	CL DLM02.0
34465-46-8	Hexachlorodibenzodioxin (Total)	440	J, Q-3	ng/kg dry	4.8	11/08/10	11/22/10	CL DLM02.0
55684-94-1	Hexachlorodibenzofuran (Total)	660	J, Q-3	ng/kg dry	4.8	11/08/10	11/22/10	CL DLM02.0
3268-87-9	Octachlorodibenzodioxin	24000		ng/kg dry	97	11/08/10	12/01/10	CL DLM02.0
39001-02-0	Octachlorodibenzofuran	1600		ng/kg dry	9.7	11/08/10	11/22/10	CL DLM02.0
36088-22-9	Pentachlorodibenzodioxin (Total)	48	J, Q-3	ng/kg dry	4.8	11/08/10	11/22/10	CL DLM02.0
30402-15-4	Pentachlorodibenzofuran (Total)	100	J, Q-3	ng/kg dry	4.8	11/08/10	11/22/10	CL DLM02.0
R4-0428	TEQ (Avian Toxic. Equiv. Value, WHO TEQ-98)	41		ng/kg dry	41	11/08/10	11/22/10	CL DLM02.0
R4-0429	TEQ (Fish Toxic. Equiv. Value, WHO TEQ-98)	37		ng/kg dry	37	11/08/10	11/22/10	CL DLM02.0
R4-0430	TEQ (Mammalian Toxic. Equiv. Value, WHO TEQ-2005)	61		ng/kg dry	61	11/08/10	11/22/10	CL DLM02.0
41903-57-5	Tetrachlorodibenzodioxin (Total)	0.37	J, Q-3	ng/kg dry	0.97	11/08/10	11/22/10	CL DLM02.0



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0019
Project: 11-0019, Tronox Inc - Reported by Jeffrey Hendel

Dioxin

Project: 11-0019, Tronox Inc

Contract Lab Case: 40729

Sample ID: 13744ASF

Lab ID: C104703-26

MD No:

Station ID: 13744A

Matrix: Surface Soil

D No: SGS

Date Collected: 10/25/10 15:50

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
30402-14-3	Tetrachlorodibenzofuran (Total)	10	J, Q-3	ng/kg dry	0.97	11/08/10	11/22/10	CL DLM02.0



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D.A.R.T. Id: 11-0019

Project: 11-0019, Tronox Inc - Reported by Jeffrey Hendel

Dioxin

Project: 11-0019, Tronox Inc

Contract Lab Case: 40729

Sample ID: 13744BSB12

Lab ID: C104703-27

MD No:

Station ID: 13744B

Matrix: Subsurface Soil

D No: SGS

Date Collected: 10/25/10 16:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	7.0		%		11/08/10	11/30/10	CL DLM02.0
35822-46-9	1,2,3,4,6,7,8-Heptachlorodibenzodioxin	1800		ng/kg dry	4.9	11/08/10	11/30/10	CL DLM02.0
67562-39-4	1,2,3,4,6,7,8-Heptachlorodibenzofuran	410		ng/kg dry	4.9	11/08/10	11/30/10	CL DLM02.0
55673-89-7	1,2,3,4,7,8,9-Heptachlorodibenzofuran	39		ng/kg dry	4.9	11/08/10	11/30/10	CL DLM02.0
39227-28-6	1,2,3,4,7,8-Hexachlorodibenzodioxin	8.8		ng/kg dry	4.9	11/08/10	11/30/10	CL DLM02.0
70648-26-9	1,2,3,4,7,8-Hexachlorodibenzofuran	73		ng/kg dry	4.9	11/08/10	11/30/10	CL DLM02.0
57653-85-7	1,2,3,6,7,8-Hexachlorodibenzodioxin	54		ng/kg dry	4.9	11/08/10	11/30/10	CL DLM02.0
57117-44-9	1,2,3,6,7,8-Hexachlorodibenzofuran	18		ng/kg dry	4.9	11/08/10	11/30/10	CL DLM02.0
19408-74-3	1,2,3,7,8,9-Hexachlorodibenzodioxin	18		ng/kg dry	4.9	11/08/10	11/30/10	CL DLM02.0
72918-21-9	1,2,3,7,8,9-Hexachlorodibenzofuran	16	U, CLP18	ng/kg dry	4.9	11/08/10	11/30/10	CL DLM02.0
40321-76-4	1,2,3,7,8-Pentachlorodibenzodioxin	2.3	J, CLP01	ng/kg dry	4.9	11/08/10	11/30/10	CL DLM02.0
57117-41-6	1,2,3,7,8-Pentachlorodibenzofuran	2.9	U, CLP18	ng/kg dry	4.9	11/08/10	11/30/10	CL DLM02.0
60851-34-5	2,3,4,6,7,8-Hexachlorodibenzofuran	27		ng/kg dry	4.9	11/08/10	11/30/10	CL DLM02.0
57117-31-4	2,3,4,7,8-Pentachlorodibenzofuran	13		ng/kg dry	4.9	11/08/10	11/30/10	CL DLM02.0
1746-01-6	2,3,7,8-Tetrachlorodibenzodioxin	0.52	U, R, CLP27	ng/kg dry	0.99	11/08/10	11/30/10	CL DLM02.0
51207-31-9	2,3,7,8-Tetrachlorodibenzofuran	0.50	U	ng/kg dry	0.99	11/08/10	11/30/10	CL DLM02.0
37871-00-4	Heptachlorodibenzodioxin (Total)	5500	J, Q-3	ng/kg dry	4.9	11/08/10	11/30/10	CL DLM02.0
38998-75-3	Heptachlorodibenzofuran (Total)	2100	J, Q-3	ng/kg dry	4.9	11/08/10	11/30/10	CL DLM02.0
34465-46-8	Hexachlorodibenzodioxin (Total)	320	J, Q-3	ng/kg dry	4.9	11/08/10	11/30/10	CL DLM02.0
55684-94-1	Hexachlorodibenzofuran (Total)	630	J, Q-3	ng/kg dry	4.9	11/08/10	11/30/10	CL DLM02.0
3268-87-9	Octachlorodibenzodioxin	24000	J, CLP02	ng/kg dry	9.9	11/08/10	11/30/10	CL DLM02.0
39001-02-0	Octachlorodibenzofuran	960		ng/kg dry	9.9	11/08/10	11/30/10	CL DLM02.0
36088-22-9	Pentachlorodibenzodioxin (Total)	52	J, Q-3	ng/kg dry	4.9	11/08/10	11/30/10	CL DLM02.0
30402-15-4	Pentachlorodibenzofuran (Total)	100	J, Q-3	ng/kg dry	4.9	11/08/10	11/30/10	CL DLM02.0
R4-0428	TEQ (Avian Toxic. Equiv. Value, WHO TEQ-98)	42	J, D-5	ng/kg dry	42	11/08/10	11/30/10	CL DLM02.0
R4-0429	TEQ (Fish Toxic. Equiv. Value, WHO TEQ-98)	37	J, D-5	ng/kg dry	37	11/08/10	11/30/10	CL DLM02.0
R4-0430	TEQ (Mammalian Toxic. Equiv. Value, WHO TEQ-2005)	59	J, D-5	ng/kg dry	59	11/08/10	11/30/10	CL DLM02.0
41903-57-5	Tetrachlorodibenzodioxin (Total)	1.6	J, Q-3	ng/kg dry	0.99	11/08/10	11/30/10	CL DLM02.0



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0019

Project: 11-0019, Tronox Inc - Reported by Jeffrey Hendel

Dioxin

Project: 11-0019, Tronox Inc

Contract Lab Case: 40729

Sample ID: 13744BSB12

Lab ID: C104703-27

MD No:

Station ID: 13744B

Matrix: Subsurface Soil

D No: SGS

Date Collected: 10/25/10 16:30

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
30402-14-3	Tetrachlorodibenzofuran (Total)	8.0	J, Q-3	ng/kg dry	0.99	11/08/10	11/30/10	CL DLM02.0



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D.A.R.T. Id: 11-0019

Project: 11-0019, Tronox Inc - Reported by Jeffrey Hendel

Dioxin

Project: 11-0019, Tronox Inc

Contract Lab Case: 40729

Sample ID: 13744BSF

Lab ID: C104703-28

MD No:

Station ID: 13744B

Matrix: Surface Soil

D No: SGS

Date Collected: 10/25/10 16:10

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	19		%		11/08/10	11/22/10	CL DLM02.0
35822-46-9	1,2,3,4,6,7,8-Heptachlorodibenzodioxin	3500		ng/kg dry	49	11/08/10	11/30/10	CL DLM02.0
67562-39-4	1,2,3,4,6,7,8-Heptachlorodibenzofuran	920		ng/kg dry	4.9	11/08/10	11/22/10	CL DLM02.0
55673-89-7	1,2,3,4,7,8,9-Heptachlorodibenzofuran	72		ng/kg dry	4.9	11/08/10	11/22/10	CL DLM02.0
39227-28-6	1,2,3,4,7,8-Hexachlorodibenzodioxin	16		ng/kg dry	4.9	11/08/10	11/22/10	CL DLM02.0
70648-26-9	1,2,3,4,7,8-Hexachlorodibenzofuran	140		ng/kg dry	4.9	11/08/10	11/22/10	CL DLM02.0
57653-85-7	1,2,3,6,7,8-Hexachlorodibenzodioxin	110		ng/kg dry	4.9	11/08/10	11/22/10	CL DLM02.0
57117-44-9	1,2,3,6,7,8-Hexachlorodibenzofuran	32		ng/kg dry	4.9	11/08/10	11/22/10	CL DLM02.0
19408-74-3	1,2,3,7,8,9-Hexachlorodibenzodioxin	37		ng/kg dry	4.9	11/08/10	11/22/10	CL DLM02.0
72918-21-9	1,2,3,7,8,9-Hexachlorodibenzofuran	27		ng/kg dry	4.9	11/08/10	11/22/10	CL DLM02.0
40321-76-4	1,2,3,7,8-Pentachlorodibenzodioxin	5.6		ng/kg dry	4.9	11/08/10	11/22/10	CL DLM02.0
57117-41-6	1,2,3,7,8-Pentachlorodibenzofuran	4.6	J, CLP01	ng/kg dry	4.9	11/08/10	11/22/10	CL DLM02.0
60851-34-5	2,3,4,6,7,8-Hexachlorodibenzofuran	45		ng/kg dry	4.9	11/08/10	11/22/10	CL DLM02.0
57117-31-4	2,3,4,7,8-Pentachlorodibenzofuran	25		ng/kg dry	4.9	11/08/10	11/22/10	CL DLM02.0
1746-01-6	2,3,7,8-Tetrachlorodibenzodioxin	0.64	U, R, CLP27	ng/kg dry	0.98	11/08/10	11/22/10	CL DLM02.0
51207-31-9	2,3,7,8-Tetrachlorodibenzofuran	1.2	U, CLP18	ng/kg dry	0.98	11/08/10	11/22/10	CL DLM02.0
37871-00-4	Heptachlorodibenzodioxin (Total)	11000	J, Q-3	ng/kg dry	49	11/08/10	11/30/10	CL DLM02.0
38998-75-3	Heptachlorodibenzofuran (Total)	5400	J, Q-3	ng/kg dry	4.9	11/08/10	11/22/10	CL DLM02.0
34465-46-8	Hexachlorodibenzodioxin (Total)	700	J, Q-3	ng/kg dry	4.9	11/08/10	11/22/10	CL DLM02.0
55684-94-1	Hexachlorodibenzofuran (Total)	1300	J, Q-3	ng/kg dry	4.9	11/08/10	11/22/10	CL DLM02.0
3268-87-9	Octachlorodibenzodioxin	40000	J, CLP02	ng/kg dry	98	11/08/10	11/30/10	CL DLM02.0
39001-02-0	Octachlorodibenzofuran	2800		ng/kg dry	9.8	11/08/10	11/22/10	CL DLM02.0
36088-22-9	Pentachlorodibenzodioxin (Total)	69	J, Q-3	ng/kg dry	4.9	11/08/10	11/22/10	CL DLM02.0
30402-15-4	Pentachlorodibenzofuran (Total)	190	J, Q-3	ng/kg dry	4.9	11/08/10	11/22/10	CL DLM02.0
R4-0428	TEQ (Avian Toxic. Equiv. Value, WHO TEQ-98)	80	J, D-5	ng/kg dry	80	11/08/10	11/22/10	CL DLM02.0
R4-0429	TEQ (Fish Toxic. Equiv. Value, WHO TEQ-98)	71	J, D-5	ng/kg dry	71	11/08/10	11/22/10	CL DLM02.0
R4-0430	TEQ (Mammalian Toxic. Equiv. Value, WHO TEQ-2005)	110	J, D-5	ng/kg dry	110	11/08/10	11/22/10	CL DLM02.0
41903-57-5	Tetrachlorodibenzodioxin (Total)	2.8	J, Q-3	ng/kg dry	0.98	11/08/10	11/22/10	CL DLM02.0



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0019
Project: 11-0019, Tronox Inc - Reported by Jeffrey Hendel

Dioxin

Project: 11-0019, Tronox Inc

Contract Lab Case: 40729

Sample ID: 13744BSF

Lab ID: C104703-28

MD No:

Station ID: 13744B

Matrix: Surface Soil

D No: SGS

Date Collected: 10/25/10 16:10

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
30402-14-3	Tetrachlorodibenzofuran (Total)	13	J, Q-3	ng/kg dry	0.98	11/08/10	11/22/10	CL DLM02.0



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D.A.R.T. Id: 11-0019

Project: 11-0019, Tronox Inc - Reported by Jeffrey Hendel

Dioxin

Project: 11-0019, Tronox Inc

Contract Lab Case: 40729

Sample ID: 13746ASF

Lab ID: C104703-29

MD No:

Station ID: 13746

Matrix: Surface Soil

D No: SGS

Date Collected: 10/26/10 9:20

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	17		%		11/08/10	11/22/10	CL DLM02.0
35822-46-9	1,2,3,4,6,7,8-Heptachlorodibenzodioxin	1600		ng/kg dry	4.7	11/08/10	11/22/10	CL DLM02.0
67562-39-4	1,2,3,4,6,7,8-Heptachlorodibenzofuran	360		ng/kg dry	4.7	11/08/10	11/22/10	CL DLM02.0
55673-89-7	1,2,3,4,7,8,9-Heptachlorodibenzofuran	24		ng/kg dry	4.7	11/08/10	11/22/10	CL DLM02.0
39227-28-6	1,2,3,4,7,8-Hexachlorodibenzodioxin	12		ng/kg dry	4.7	11/08/10	11/22/10	CL DLM02.0
70648-26-9	1,2,3,4,7,8-Hexachlorodibenzofuran	37		ng/kg dry	4.7	11/08/10	11/22/10	CL DLM02.0
57653-85-7	1,2,3,6,7,8-Hexachlorodibenzodioxin	45		ng/kg dry	4.7	11/08/10	11/22/10	CL DLM02.0
57117-44-9	1,2,3,6,7,8-Hexachlorodibenzofuran	12		ng/kg dry	4.7	11/08/10	11/22/10	CL DLM02.0
19408-74-3	1,2,3,7,8,9-Hexachlorodibenzodioxin	26		ng/kg dry	4.7	11/08/10	11/22/10	CL DLM02.0
72918-21-9	1,2,3,7,8,9-Hexachlorodibenzofuran	8.4		ng/kg dry	4.7	11/08/10	11/22/10	CL DLM02.0
40321-76-4	1,2,3,7,8-Pentachlorodibenzodioxin	5.3		ng/kg dry	4.7	11/08/10	11/22/10	CL DLM02.0
57117-41-6	1,2,3,7,8-Pentachlorodibenzofuran	2.3	J, CLP01	ng/kg dry	4.7	11/08/10	11/22/10	CL DLM02.0
60851-34-5	2,3,4,6,7,8-Hexachlorodibenzofuran	18		ng/kg dry	4.7	11/08/10	11/22/10	CL DLM02.0
57117-31-4	2,3,4,7,8-Pentachlorodibenzofuran	10		ng/kg dry	4.7	11/08/10	11/22/10	CL DLM02.0
1746-01-6	2,3,7,8-Tetrachlorodibenzodioxin	0.52	U, R, CLP27	ng/kg dry	0.94	11/08/10	11/22/10	CL DLM02.0
51207-31-9	2,3,7,8-Tetrachlorodibenzofuran	1.5	CLP10	ng/kg dry	0.94	11/08/10	11/22/10	CL DLM02.0
37871-00-4	Heptachlorodibenzodioxin (Total)	4300	J, Q-3	ng/kg dry	4.7	11/08/10	11/22/10	CL DLM02.0
38998-75-3	Heptachlorodibenzofuran (Total)	1600	J, Q-3	ng/kg dry	4.7	11/08/10	11/22/10	CL DLM02.0
34465-46-8	Hexachlorodibenzodioxin (Total)	310	J, Q-3	ng/kg dry	4.7	11/08/10	11/22/10	CL DLM02.0
55684-94-1	Hexachlorodibenzofuran (Total)	450	J, Q-3	ng/kg dry	4.7	11/08/10	11/22/10	CL DLM02.0
3268-87-9	Octachlorodibenzodioxin	19000	J, CLP02	ng/kg dry	9.4	11/08/10	11/22/10	CL DLM02.0
39001-02-0	Octachlorodibenzofuran	900		ng/kg dry	9.4	11/08/10	11/22/10	CL DLM02.0
36088-22-9	Pentachlorodibenzodioxin (Total)	41	J, Q-3	ng/kg dry	4.7	11/08/10	11/22/10	CL DLM02.0
30402-15-4	Pentachlorodibenzofuran (Total)	110	J, Q-3	ng/kg dry	4.7	11/08/10	11/22/10	CL DLM02.0
R4-0428	TEQ (Avian Toxic. Equiv. Value, WHO TEQ-98)	37	J, D-5	ng/kg dry	37	11/08/10	11/22/10	CL DLM02.0
R4-0429	TEQ (Fish Toxic. Equiv. Value, WHO TEQ-98)	33	J, D-5	ng/kg dry	33	11/08/10	11/22/10	CL DLM02.0
R4-0430	TEQ (Mammalian Toxic. Equiv. Value, WHO TEQ-2005)	50	J, D-5	ng/kg dry	50	11/08/10	11/22/10	CL DLM02.0
41903-57-5	Tetrachlorodibenzodioxin (Total)	4.5	J, Q-3	ng/kg dry	0.94	11/08/10	11/22/10	CL DLM02.0



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0019

Project: 11-0019, Tronox Inc - Reported by Jeffrey Hendel

Dioxin

Project: 11-0019, Tronox Inc

Contract Lab Case: 40729

Sample ID: 13746ASF

Lab ID: C104703-29

MD No:

Station ID: 13746

Matrix: Surface Soil

D No: SGS

Date Collected: 10/26/10 9:20

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
30402-14-3	Tetrachlorodibenzofuran (Total)	14	J, Q-3	ng/kg dry	0.94	11/08/10	11/22/10	CL DLM02.0



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D.A.R.T. Id: 11-0019

Project: 11-0019, Tronox Inc - Reported by Jeffrey Hendel

Dioxin

Project: 11-0019, Tronox Inc

Contract Lab Case: 40729

Sample ID: 13750ASF

Lab ID: C104703-30

MD No:

Station ID: 13750

Matrix: Surface Soil

D No: SGS

Date Collected: 10/26/10 9:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	17		%		11/08/10	11/21/10	CL DLM02.0
35822-46-9	1,2,3,4,6,7,8-Heptachlorodibenzodioxin	570		ng/kg dry	4.8	11/08/10	11/21/10	CL DLM02.0
67562-39-4	1,2,3,4,6,7,8-Heptachlorodibenzofuran	120	U, D-4	ng/kg dry	4.8	11/08/10	11/21/10	CL DLM02.0
55673-89-7	1,2,3,4,7,8,9-Heptachlorodibenzofuran	9.1		ng/kg dry	4.8	11/08/10	11/21/10	CL DLM02.0
39227-28-6	1,2,3,4,7,8-Hexachlorodibenzodioxin	5.2		ng/kg dry	4.8	11/08/10	11/21/10	CL DLM02.0
70648-26-9	1,2,3,4,7,8-Hexachlorodibenzofuran	12		ng/kg dry	4.8	11/08/10	11/21/10	CL DLM02.0
57653-85-7	1,2,3,6,7,8-Hexachlorodibenzodioxin	17		ng/kg dry	4.8	11/08/10	11/21/10	CL DLM02.0
57117-44-9	1,2,3,6,7,8-Hexachlorodibenzofuran	5.4	U, CLP18	ng/kg dry	4.8	11/08/10	11/21/10	CL DLM02.0
19408-74-3	1,2,3,7,8,9-Hexachlorodibenzodioxin	12	U, CLP18	ng/kg dry	4.8	11/08/10	11/21/10	CL DLM02.0
72918-21-9	1,2,3,7,8,9-Hexachlorodibenzofuran	2.5	J, CLP01	ng/kg dry	4.8	11/08/10	11/21/10	CL DLM02.0
40321-76-4	1,2,3,7,8-Pentachlorodibenzodioxin	2.3	J, CLP01	ng/kg dry	4.8	11/08/10	11/21/10	CL DLM02.0
57117-41-6	1,2,3,7,8-Pentachlorodibenzofuran	1.2	U, CLP18	ng/kg dry	4.8	11/08/10	11/21/10	CL DLM02.0
60851-34-5	2,3,4,6,7,8-Hexachlorodibenzofuran	6.7		ng/kg dry	4.8	11/08/10	11/21/10	CL DLM02.0
57117-31-4	2,3,4,7,8-Pentachlorodibenzofuran	3.8	J, CLP01	ng/kg dry	4.8	11/08/10	11/21/10	CL DLM02.0
1746-01-6	2,3,7,8-Tetrachlorodibenzodioxin	0.41	U, R, CLP27	ng/kg dry	0.95	11/08/10	11/21/10	CL DLM02.0
51207-31-9	2,3,7,8-Tetrachlorodibenzofuran	1.2	CLP10	ng/kg dry	0.95	11/08/10	11/21/10	CL DLM02.0
37871-00-4	Heptachlorodibenzodioxin (Total)	1600	J, Q-3	ng/kg dry	4.8	11/08/10	11/21/10	CL DLM02.0
38998-75-3	Heptachlorodibenzofuran (Total)	490	J, Q-3	ng/kg dry	4.8	11/08/10	11/21/10	CL DLM02.0
34465-46-8	Hexachlorodibenzodioxin (Total)	140	J, Q-3	ng/kg dry	4.8	11/08/10	11/21/10	CL DLM02.0
55684-94-1	Hexachlorodibenzofuran (Total)	150	J, Q-3	ng/kg dry	4.8	11/08/10	11/21/10	CL DLM02.0
3268-87-9	Octachlorodibenzodioxin	6200	J, CLP02	ng/kg dry	9.5	11/08/10	11/21/10	CL DLM02.0
39001-02-0	Octachlorodibenzofuran	270		ng/kg dry	9.5	11/08/10	11/21/10	CL DLM02.0
36088-22-9	Pentachlorodibenzodioxin (Total)	27	J, Q-3	ng/kg dry	4.8	11/08/10	11/21/10	CL DLM02.0
30402-15-4	Pentachlorodibenzofuran (Total)	44	J, Q-3	ng/kg dry	4.8	11/08/10	11/21/10	CL DLM02.0
R4-0428	TEQ (Avian Toxic. Equiv. Value, WHO TEQ-98)	15	J, D-5	ng/kg dry	15	11/08/10	11/21/10	CL DLM02.0
R4-0429	TEQ (Fish Toxic. Equiv. Value, WHO TEQ-98)	13	J, D-5	ng/kg dry	13	11/08/10	11/21/10	CL DLM02.0
R4-0430	TEQ (Mammalian Toxic. Equiv. Value, WHO TEQ-2005)	19	J, D-5	ng/kg dry	19	11/08/10	11/21/10	CL DLM02.0
41903-57-5	Tetrachlorodibenzodioxin (Total)	3.1	J, Q-3	ng/kg dry	0.95	11/08/10	11/21/10	CL DLM02.0



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0019

Project: 11-0019, Tronox Inc - Reported by Jeffrey Hendel

Dioxin

Project: 11-0019, Tronox Inc

Contract Lab Case: 40729

Sample ID: 13750ASF

Lab ID: C104703-30

MD No:

Station ID: 13750

Matrix: Surface Soil

D No: SGS

Date Collected: 10/26/10 9:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
30402-14-3	Tetrachlorodibenzofuran (Total)	11	J, Q-3	ng/kg dry	0.95	11/08/10	11/21/10	CL DLM02.0



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D.A.R.T. Id: 11-0019

Project: 11-0019, Tronox Inc - Reported by Jeffrey Hendel

Dioxin

Project: 11-0019, Tronox Inc

Contract Lab Case: 40729

Sample ID: 13753ASF

Lab ID: C104703-31

MD No:

Station ID: 13753

Matrix: Surface Soil

D No: SGS

Date Collected: 10/26/10 8:40

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	16		%		11/08/10	11/21/10	CL DLM02.0
35822-46-9	1,2,3,4,6,7,8-Heptachlorodibenzodioxin	800		ng/kg dry	4.7	11/08/10	11/21/10	CL DLM02.0
67562-39-4	1,2,3,4,6,7,8-Heptachlorodibenzofuran	190		ng/kg dry	4.7	11/08/10	11/21/10	CL DLM02.0
55673-89-7	1,2,3,4,7,8,9-Heptachlorodibenzofuran	12		ng/kg dry	4.7	11/08/10	11/21/10	CL DLM02.0
39227-28-6	1,2,3,4,7,8-Hexachlorodibenzodioxin	5.4		ng/kg dry	4.7	11/08/10	11/21/10	CL DLM02.0
70648-26-9	1,2,3,4,7,8-Hexachlorodibenzofuran	16		ng/kg dry	4.7	11/08/10	11/21/10	CL DLM02.0
57653-85-7	1,2,3,6,7,8-Hexachlorodibenzodioxin	27		ng/kg dry	4.7	11/08/10	11/21/10	CL DLM02.0
57117-44-9	1,2,3,6,7,8-Hexachlorodibenzofuran	6.6		ng/kg dry	4.7	11/08/10	11/21/10	CL DLM02.0
19408-74-3	1,2,3,7,8,9-Hexachlorodibenzodioxin	18		ng/kg dry	4.7	11/08/10	11/21/10	CL DLM02.0
72918-21-9	1,2,3,7,8,9-Hexachlorodibenzofuran	3.4	J, CLP01	ng/kg dry	4.7	11/08/10	11/21/10	CL DLM02.0
40321-76-4	1,2,3,7,8-Pentachlorodibenzodioxin	2.4	U, CLP18	ng/kg dry	4.7	11/08/10	11/21/10	CL DLM02.0
57117-41-6	1,2,3,7,8-Pentachlorodibenzofuran	1.2	J, CLP01	ng/kg dry	4.7	11/08/10	11/21/10	CL DLM02.0
60851-34-5	2,3,4,6,7,8-Hexachlorodibenzofuran	9.8		ng/kg dry	4.7	11/08/10	11/21/10	CL DLM02.0
57117-31-4	2,3,4,7,8-Pentachlorodibenzofuran	4.7	J, CLP01	ng/kg dry	4.7	11/08/10	11/21/10	CL DLM02.0
1746-01-6	2,3,7,8-Tetrachlorodibenzodioxin	3.7	J, CLP27	ng/kg dry	0.94	11/08/10	11/21/10	CL DLM02.0
51207-31-9	2,3,7,8-Tetrachlorodibenzofuran	1.3	CLP10	ng/kg dry	0.94	11/08/10	11/21/10	CL DLM02.0
37871-00-4	Heptachlorodibenzodioxin (Total)	2100	J, Q-3	ng/kg dry	4.7	11/08/10	11/21/10	CL DLM02.0
38998-75-3	Heptachlorodibenzofuran (Total)	790	J, Q-3	ng/kg dry	4.7	11/08/10	11/21/10	CL DLM02.0
34465-46-8	Hexachlorodibenzodioxin (Total)	180	J, Q-3	ng/kg dry	4.7	11/08/10	11/21/10	CL DLM02.0
55684-94-1	Hexachlorodibenzofuran (Total)	230	J, Q-3	ng/kg dry	4.7	11/08/10	11/21/10	CL DLM02.0
3268-87-9	Octachlorodibenzodioxin	8700	J, CLP02	ng/kg dry	9.4	11/08/10	11/21/10	CL DLM02.0
39001-02-0	Octachlorodibenzofuran	480		ng/kg dry	9.4	11/08/10	11/21/10	CL DLM02.0
36088-22-9	Pentachlorodibenzodioxin (Total)	27	J, Q-3	ng/kg dry	4.7	11/08/10	11/21/10	CL DLM02.0
30402-15-4	Pentachlorodibenzofuran (Total)	55	J, Q-3	ng/kg dry	4.7	11/08/10	11/21/10	CL DLM02.0
R4-0428	TEQ (Avian Toxic. Equiv. Value, WHO TEQ-98)	22	J, D-5	ng/kg dry	22	11/08/10	11/21/10	CL DLM02.0
R4-0429	TEQ (Fish Toxic. Equiv. Value, WHO TEQ-98)	19	J, D-5	ng/kg dry	19	11/08/10	11/21/10	CL DLM02.0
R4-0430	TEQ (Mammalian Toxic. Equiv. Value, WHO TEQ-2005)	29	J, D-5	ng/kg dry	29	11/08/10	11/21/10	CL DLM02.0
41903-57-5	Tetrachlorodibenzodioxin (Total)	7.4	J, Q-3	ng/kg dry	0.94	11/08/10	11/21/10	CL DLM02.0



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0019

Project: 11-0019, Tronox Inc - Reported by Jeffrey Hendel

Dioxin

Project: 11-0019, Tronox Inc

Contract Lab Case: 40729

Sample ID: 13753ASF

Lab ID: C104703-31

MD No:

Station ID: 13753

Matrix: Surface Soil

D No: SGS

Date Collected: 10/26/10 8:40

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
30402-14-3	Tetrachlorodibenzofuran (Total)	11	J, Q-3	ng/kg dry	0.94	11/08/10	11/21/10	CL DLM02.0



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0019

Project: 11-0019, Tronox Inc - Reported by Jeffrey Hendel

Dioxin

Project: 11-0019, Tronox Inc

Contract Lab Case: 40729

Sample ID: 13755ASF

Lab ID: C104703-32

MD No:

Station ID: 13755

Matrix: Surface Soil

D No: SGS

Date Collected: 10/26/10 9:50

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	15		%		11/08/10	11/21/10	CL DLM02.0
35822-46-9	1,2,3,4,6,7,8-Heptachlorodibenzodioxin	610		ng/kg dry	4.8	11/08/10	11/21/10	CL DLM02.0
67562-39-4	1,2,3,4,6,7,8-Heptachlorodibenzofuran	210		ng/kg dry	4.8	11/08/10	11/21/10	CL DLM02.0
55673-89-7	1,2,3,4,7,8,9-Heptachlorodibenzofuran	14		ng/kg dry	4.8	11/08/10	11/21/10	CL DLM02.0
39227-28-6	1,2,3,4,7,8-Hexachlorodibenzodioxin	4.4	J, CLP01	ng/kg dry	4.8	11/08/10	11/21/10	CL DLM02.0
70648-26-9	1,2,3,4,7,8-Hexachlorodibenzofuran	8.6		ng/kg dry	4.8	11/08/10	11/21/10	CL DLM02.0
57653-85-7	1,2,3,6,7,8-Hexachlorodibenzodioxin	22		ng/kg dry	4.8	11/08/10	11/21/10	CL DLM02.0
57117-44-9	1,2,3,6,7,8-Hexachlorodibenzofuran	4.8		ng/kg dry	4.8	11/08/10	11/21/10	CL DLM02.0
19408-74-3	1,2,3,7,8,9-Hexachlorodibenzodioxin	9.4		ng/kg dry	4.8	11/08/10	11/21/10	CL DLM02.0
72918-21-9	1,2,3,7,8,9-Hexachlorodibenzofuran	1.7	U	ng/kg dry	4.8	11/08/10	11/21/10	CL DLM02.0
40321-76-4	1,2,3,7,8-Pentachlorodibenzodioxin	1.4	U	ng/kg dry	4.8	11/08/10	11/21/10	CL DLM02.0
57117-41-6	1,2,3,7,8-Pentachlorodibenzofuran	0.81	U	ng/kg dry	4.8	11/08/10	11/21/10	CL DLM02.0
60851-34-5	2,3,4,6,7,8-Hexachlorodibenzofuran	8.6		ng/kg dry	4.8	11/08/10	11/21/10	CL DLM02.0
57117-31-4	2,3,4,7,8-Pentachlorodibenzofuran	6.4		ng/kg dry	4.8	11/08/10	11/21/10	CL DLM02.0
1746-01-6	2,3,7,8-Tetrachlorodibenzodioxin	0.40	U, R, CLP27	ng/kg dry	0.95	11/08/10	11/21/10	CL DLM02.0
51207-31-9	2,3,7,8-Tetrachlorodibenzofuran	0.77	U	ng/kg dry	0.95	11/08/10	11/21/10	CL DLM02.0
37871-00-4	Heptachlorodibenzodioxin (Total)	1300	J, Q-3	ng/kg dry	4.8	11/08/10	11/21/10	CL DLM02.0
38998-75-3	Heptachlorodibenzofuran (Total)	1100	J, Q-3	ng/kg dry	4.8	11/08/10	11/21/10	CL DLM02.0
34465-46-8	Hexachlorodibenzodioxin (Total)	110	J, Q-3	ng/kg dry	4.8	11/08/10	11/21/10	CL DLM02.0
55684-94-1	Hexachlorodibenzofuran (Total)	230	J, Q-3	ng/kg dry	4.8	11/08/10	11/21/10	CL DLM02.0
3268-87-9	Octachlorodibenzodioxin	5700	J, CLP02	ng/kg dry	9.5	11/08/10	11/21/10	CL DLM02.0
39001-02-0	Octachlorodibenzofuran	620		ng/kg dry	9.5	11/08/10	11/21/10	CL DLM02.0
36088-22-9	Pentachlorodibenzodioxin (Total)	12	J, Q-3	ng/kg dry	4.8	11/08/10	11/21/10	CL DLM02.0
30402-15-4	Pentachlorodibenzofuran (Total)	110	J, Q-3	ng/kg dry	4.8	11/08/10	11/21/10	CL DLM02.0
R4-0428	TEQ (Avian Toxic. Equiv. Value, WHO TEQ-98)	16	J, D-5	ng/kg dry	16	11/08/10	11/21/10	CL DLM02.0
R4-0429	TEQ (Fish Toxic. Equiv. Value, WHO TEQ-98)	13	J, D-5	ng/kg dry	13	11/08/10	11/21/10	CL DLM02.0
R4-0430	TEQ (Mammalian Toxic. Equiv. Value, WHO TEQ-2005)	20	J, D-5	ng/kg dry	20	11/08/10	11/21/10	CL DLM02.0
41903-57-5	Tetrachlorodibenzodioxin (Total)	2.1	J, Q-3	ng/kg dry	0.95	11/08/10	11/21/10	CL DLM02.0



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0019

Project: 11-0019, Tronox Inc - Reported by Jeffrey Hendel

Dioxin

Project: 11-0019, Tronox Inc

Contract Lab Case: 40729

Sample ID: 13755ASF

Lab ID: C104703-32

MD No:

Station ID: 13755

Matrix: Surface Soil

D No: SGS

Date Collected: 10/26/10 9:50

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
30402-14-3	Tetrachlorodibenzofuran (Total)	12	J, Q-3	ng/kg dry	0.95	11/08/10	11/21/10	CL DLM02.0



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980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0019

Project: 11-0019, Tronox Inc - Reported by Jeffrey Hendel

Dioxin

Project: 11-0019, Tronox Inc

Contract Lab Case: 40729

Sample ID: 13756ASF

Lab ID: C104703-33

MD No:

Station ID: 13756

Matrix: Surface Soil

D No: SGS

Date Collected: 10/26/10 10:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	19		%		11/08/10	11/21/10	CL DLM02.0
35822-46-9	1,2,3,4,6,7,8-Heptachlorodibenzodioxin	870		ng/kg dry	4.9	11/08/10	11/21/10	CL DLM02.0
67562-39-4	1,2,3,4,6,7,8-Heptachlorodibenzofuran	210	U, D-4	ng/kg dry	4.9	11/08/10	11/21/10	CL DLM02.0
55673-89-7	1,2,3,4,7,8,9-Heptachlorodibenzofuran	14		ng/kg dry	4.9	11/08/10	11/21/10	CL DLM02.0
39227-28-6	1,2,3,4,7,8-Hexachlorodibenzodioxin	7.0		ng/kg dry	4.9	11/08/10	11/21/10	CL DLM02.0
70648-26-9	1,2,3,4,7,8-Hexachlorodibenzofuran	22		ng/kg dry	4.9	11/08/10	11/21/10	CL DLM02.0
57653-85-7	1,2,3,6,7,8-Hexachlorodibenzodioxin	29		ng/kg dry	4.9	11/08/10	11/21/10	CL DLM02.0
57117-44-9	1,2,3,6,7,8-Hexachlorodibenzofuran	7.7		ng/kg dry	4.9	11/08/10	11/21/10	CL DLM02.0
19408-74-3	1,2,3,7,8,9-Hexachlorodibenzodioxin	17		ng/kg dry	4.9	11/08/10	11/21/10	CL DLM02.0
72918-21-9	1,2,3,7,8,9-Hexachlorodibenzofuran	5.4		ng/kg dry	4.9	11/08/10	11/21/10	CL DLM02.0
40321-76-4	1,2,3,7,8-Pentachlorodibenzodioxin	2.7	J, CLP01	ng/kg dry	4.9	11/08/10	11/21/10	CL DLM02.0
57117-41-6	1,2,3,7,8-Pentachlorodibenzofuran	1.9	J, CLP01	ng/kg dry	4.9	11/08/10	11/21/10	CL DLM02.0
60851-34-5	2,3,4,6,7,8-Hexachlorodibenzofuran	13		ng/kg dry	4.9	11/08/10	11/21/10	CL DLM02.0
57117-31-4	2,3,4,7,8-Pentachlorodibenzofuran	9.6		ng/kg dry	4.9	11/08/10	11/21/10	CL DLM02.0
1746-01-6	2,3,7,8-Tetrachlorodibenzodioxin	0.53	U, R, CLP27	ng/kg dry	0.98	11/08/10	11/21/10	CL DLM02.0
51207-31-9	2,3,7,8-Tetrachlorodibenzofuran	1.7	CLP10	ng/kg dry	0.98	11/08/10	11/21/10	CL DLM02.0
37871-00-4	Heptachlorodibenzodioxin (Total)	2300	J, Q-3	ng/kg dry	4.9	11/08/10	11/21/10	CL DLM02.0
38998-75-3	Heptachlorodibenzofuran (Total)	880	J, Q-3	ng/kg dry	4.9	11/08/10	11/21/10	CL DLM02.0
34465-46-8	Hexachlorodibenzodioxin (Total)	190	J, Q-3	ng/kg dry	4.9	11/08/10	11/21/10	CL DLM02.0
55684-94-1	Hexachlorodibenzofuran (Total)	280	J, Q-3	ng/kg dry	4.9	11/08/10	11/21/10	CL DLM02.0
3268-87-9	Octachlorodibenzodioxin	9400	J, CLP02	ng/kg dry	9.8	11/08/10	11/21/10	CL DLM02.0
39001-02-0	Octachlorodibenzofuran	460		ng/kg dry	9.8	11/08/10	11/21/10	CL DLM02.0
36088-22-9	Pentachlorodibenzodioxin (Total)	39	J, Q-3	ng/kg dry	4.9	11/08/10	11/21/10	CL DLM02.0
30402-15-4	Pentachlorodibenzofuran (Total)	100	J, Q-3	ng/kg dry	4.9	11/08/10	11/21/10	CL DLM02.0
R4-0428	TEQ (Avian Toxic. Equiv. Value, WHO TEQ-98)	26	J, D-5	ng/kg dry	26	11/08/10	11/21/10	CL DLM02.0
R4-0429	TEQ (Fish Toxic. Equiv. Value, WHO TEQ-98)	21	J, D-5	ng/kg dry	21	11/08/10	11/21/10	CL DLM02.0
R4-0430	TEQ (Mammalian Toxic. Equiv. Value, WHO TEQ-2005)	30	J, D-5	ng/kg dry	30	11/08/10	11/21/10	CL DLM02.0
41903-57-5	Tetrachlorodibenzodioxin (Total)	6.9	J, Q-3	ng/kg dry	0.98	11/08/10	11/21/10	CL DLM02.0



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
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980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0019

Project: 11-0019, Tronox Inc - Reported by Jeffrey Hendel

Dioxin

Project: 11-0019, Tronox Inc

Contract Lab Case: 40729

Sample ID: 13756ASF

Lab ID: C104703-33

MD No:

Station ID: 13756

Matrix: Surface Soil

D No: SGS

Date Collected: 10/26/10 10:15

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
30402-14-3	Tetrachlorodibenzofuran (Total)	23	J, Q-3	ng/kg dry	0.98	11/08/10	11/21/10	CL DLM02.0



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D.A.R.T. Id: 11-0019

Project: 11-0019, Tronox Inc - Reported by Jeffrey Hendel

Dioxin

Project: 11-0019, Tronox Inc

Contract Lab Case: 40729

Sample ID: 13758ASF

Lab ID: C104703-34

MD No:

Station ID: 13758

Matrix: Surface Soil

D No: SGS

Date Collected: 10/26/10 10:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	20		%		11/08/10	11/22/10	CL DLM02.0
35822-46-9	1,2,3,4,6,7,8-Heptachlorodibenzodioxin	1000		ng/kg dry	4.9	11/08/10	11/22/10	CL DLM02.0
67562-39-4	1,2,3,4,6,7,8-Heptachlorodibenzofuran	280		ng/kg dry	4.9	11/08/10	11/22/10	CL DLM02.0
55673-89-7	1,2,3,4,7,8,9-Heptachlorodibenzofuran	18		ng/kg dry	4.9	11/08/10	11/22/10	CL DLM02.0
39227-28-6	1,2,3,4,7,8-Hexachlorodibenzodioxin	10		ng/kg dry	4.9	11/08/10	11/22/10	CL DLM02.0
70648-26-9	1,2,3,4,7,8-Hexachlorodibenzofuran	22		ng/kg dry	4.9	11/08/10	11/22/10	CL DLM02.0
57653-85-7	1,2,3,6,7,8-Hexachlorodibenzodioxin	34		ng/kg dry	4.9	11/08/10	11/22/10	CL DLM02.0
57117-44-9	1,2,3,6,7,8-Hexachlorodibenzofuran	11		ng/kg dry	4.9	11/08/10	11/22/10	CL DLM02.0
19408-74-3	1,2,3,7,8,9-Hexachlorodibenzodioxin	22		ng/kg dry	4.9	11/08/10	11/22/10	CL DLM02.0
72918-21-9	1,2,3,7,8,9-Hexachlorodibenzofuran	5.2		ng/kg dry	4.9	11/08/10	11/22/10	CL DLM02.0
40321-76-4	1,2,3,7,8-Pentachlorodibenzodioxin	4.8	J, CLP01	ng/kg dry	4.9	11/08/10	11/22/10	CL DLM02.0
57117-41-6	1,2,3,7,8-Pentachlorodibenzofuran	2.8	J, CLP01	ng/kg dry	4.9	11/08/10	11/22/10	CL DLM02.0
60851-34-5	2,3,4,6,7,8-Hexachlorodibenzofuran	14		ng/kg dry	4.9	11/08/10	11/22/10	CL DLM02.0
57117-31-4	2,3,4,7,8-Pentachlorodibenzofuran	7.7		ng/kg dry	4.9	11/08/10	11/22/10	CL DLM02.0
1746-01-6	2,3,7,8-Tetrachlorodibenzodioxin	1.0	U, R, CLP18, CLP27	ng/kg dry	0.97	11/08/10	11/22/10	CL DLM02.0
51207-31-9	2,3,7,8-Tetrachlorodibenzofuran	2.3	CLP10	ng/kg dry	0.97	11/08/10	11/22/10	CL DLM02.0
37871-00-4	Heptachlorodibenzodioxin (Total)	2700	J, Q-3	ng/kg dry	4.9	11/08/10	11/22/10	CL DLM02.0
38998-75-3	Heptachlorodibenzofuran (Total)	1100	J, Q-3	ng/kg dry	4.9	11/08/10	11/22/10	CL DLM02.0
34465-46-8	Hexachlorodibenzodioxin (Total)	250	J, Q-3	ng/kg dry	4.9	11/08/10	11/22/10	CL DLM02.0
55684-94-1	Hexachlorodibenzofuran (Total)	310	J, Q-3	ng/kg dry	4.9	11/08/10	11/22/10	CL DLM02.0
3268-87-9	Octachlorodibenzodioxin	13000	J, CLP02	ng/kg dry	9.7	11/08/10	11/22/10	CL DLM02.0
39001-02-0	Octachlorodibenzofuran	670		ng/kg dry	9.7	11/08/10	11/22/10	CL DLM02.0
36088-22-9	Pentachlorodibenzodioxin (Total)	51	J, Q-3	ng/kg dry	4.9	11/08/10	11/22/10	CL DLM02.0
30402-15-4	Pentachlorodibenzofuran (Total)	93	J, Q-3	ng/kg dry	4.9	11/08/10	11/22/10	CL DLM02.0
R4-0428	TEQ (Avian Toxic. Equiv. Value, WHO TEQ-98)	30	J, D-5	ng/kg dry	30	11/08/10	11/22/10	CL DLM02.0
R4-0429	TEQ (Fish Toxic. Equiv. Value, WHO TEQ-98)	26	J, D-5	ng/kg dry	26	11/08/10	11/22/10	CL DLM02.0
R4-0430	TEQ (Mammalian Toxic. Equiv. Value, WHO TEQ-2005)	38	J, D-5	ng/kg dry	38	11/08/10	11/22/10	CL DLM02.0
41903-57-5	Tetrachlorodibenzodioxin (Total)	18	J, Q-3	ng/kg dry	0.97	11/08/10	11/22/10	CL DLM02.0



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0019

Project: 11-0019, Tronox Inc - Reported by Jeffrey Hendel

Dioxin

Project: 11-0019, Tronox Inc

Contract Lab Case: 40729

Sample ID: 13758ASF

Lab ID: C104703-34

MD No:

Station ID: 13758

Matrix: Surface Soil

D No: SGS

Date Collected: 10/26/10 10:30

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
30402-14-3	Tetrachlorodibenzofuran (Total)	26	J, Q-3	ng/kg dry	0.97	11/08/10	11/22/10	CL DLM02.0



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0019

Project: 11-0019, Tronox Inc - Reported by Jeffrey Hendel

Dioxin

Project: 11-0019, Tronox Inc

Contract Lab Case: 40729

Sample ID: 13758ASFX

Lab ID: C104703-35

MD No:

Station ID: 13758

Matrix: Surface Soil

D No: SGS

Date Collected: 10/26/10 10:35

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	20		%		11/08/10	11/22/10	CL DLM02.0
35822-46-9	1,2,3,4,6,7,8-Heptachlorodibenzodioxin	1100		ng/kg dry	4.8	11/08/10	11/22/10	CL DLM02.0
67562-39-4	1,2,3,4,6,7,8-Heptachlorodibenzofuran	280		ng/kg dry	4.8	11/08/10	11/22/10	CL DLM02.0
55673-89-7	1,2,3,4,7,8,9-Heptachlorodibenzofuran	19		ng/kg dry	4.8	11/08/10	11/22/10	CL DLM02.0
39227-28-6	1,2,3,4,7,8-Hexachlorodibenzodioxin	9.5	U, CLP18	ng/kg dry	4.8	11/08/10	11/22/10	CL DLM02.0
70648-26-9	1,2,3,4,7,8-Hexachlorodibenzofuran	24		ng/kg dry	4.8	11/08/10	11/22/10	CL DLM02.0
57653-85-7	1,2,3,6,7,8-Hexachlorodibenzodioxin	36		ng/kg dry	4.8	11/08/10	11/22/10	CL DLM02.0
57117-44-9	1,2,3,6,7,8-Hexachlorodibenzofuran	9.7		ng/kg dry	4.8	11/08/10	11/22/10	CL DLM02.0
19408-74-3	1,2,3,7,8,9-Hexachlorodibenzodioxin	23		ng/kg dry	4.8	11/08/10	11/22/10	CL DLM02.0
72918-21-9	1,2,3,7,8,9-Hexachlorodibenzofuran	5.4		ng/kg dry	4.8	11/08/10	11/22/10	CL DLM02.0
40321-76-4	1,2,3,7,8-Pentachlorodibenzodioxin	5.2		ng/kg dry	4.8	11/08/10	11/22/10	CL DLM02.0
57117-41-6	1,2,3,7,8-Pentachlorodibenzofuran	2.2	J, CLP01	ng/kg dry	4.8	11/08/10	11/22/10	CL DLM02.0
60851-34-5	2,3,4,6,7,8-Hexachlorodibenzofuran	16		ng/kg dry	4.8	11/08/10	11/22/10	CL DLM02.0
57117-31-4	2,3,4,7,8-Pentachlorodibenzofuran	6.6		ng/kg dry	4.8	11/08/10	11/22/10	CL DLM02.0
1746-01-6	2,3,7,8-Tetrachlorodibenzodioxin	0.51	U, R, CLP27	ng/kg dry	0.96	11/08/10	11/22/10	CL DLM02.0
51207-31-9	2,3,7,8-Tetrachlorodibenzofuran	2.3	CLP10	ng/kg dry	0.96	11/08/10	11/22/10	CL DLM02.0
37871-00-4	Heptachlorodibenzodioxin (Total)	2800	J, Q-3	ng/kg dry	4.8	11/08/10	11/22/10	CL DLM02.0
38998-75-3	Heptachlorodibenzofuran (Total)	1100	J, Q-3	ng/kg dry	4.8	11/08/10	11/22/10	CL DLM02.0
34465-46-8	Hexachlorodibenzodioxin (Total)	260	J, Q-3	ng/kg dry	4.8	11/08/10	11/22/10	CL DLM02.0
55684-94-1	Hexachlorodibenzofuran (Total)	310	J, Q-3	ng/kg dry	4.8	11/08/10	11/22/10	CL DLM02.0
3268-87-9	Octachlorodibenzodioxin	13000	J, CLP02	ng/kg dry	9.6	11/08/10	11/22/10	CL DLM02.0
39001-02-0	Octachlorodibenzofuran	690		ng/kg dry	9.6	11/08/10	11/22/10	CL DLM02.0
36088-22-9	Pentachlorodibenzodioxin (Total)	58	J, Q-3	ng/kg dry	4.8	11/08/10	11/22/10	CL DLM02.0
30402-15-4	Pentachlorodibenzofuran (Total)	82	J, Q-3	ng/kg dry	4.8	11/08/10	11/22/10	CL DLM02.0
R4-0428	TEQ (Avian Toxic. Equiv. Value, WHO TEQ-98)	29	J, D-5	ng/kg dry	29	11/08/10	11/22/10	CL DLM02.0
R4-0429	TEQ (Fish Toxic. Equiv. Value, WHO TEQ-98)	25	J, D-5	ng/kg dry	25	11/08/10	11/22/10	CL DLM02.0
R4-0430	TEQ (Mammalian Toxic. Equiv. Value, WHO TEQ-2005)	38	J, D-5	ng/kg dry	38	11/08/10	11/22/10	CL DLM02.0
41903-57-5	Tetrachlorodibenzodioxin (Total)	15	J, Q-3	ng/kg dry	0.96	11/08/10	11/22/10	CL DLM02.0



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Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0019

Project: 11-0019, Tronox Inc - Reported by Jeffrey Hendel

Dioxin

Project: 11-0019, Tronox Inc

Contract Lab Case: 40729

Sample ID: 13758ASFX

Lab ID: C104703-35

MD No:

Station ID: 13758

Matrix: Surface Soil

D No: SGS

Date Collected: 10/26/10 10:35

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
30402-14-3	Tetrachlorodibenzofuran (Total)	28	J, Q-3	ng/kg dry	0.96	11/08/10	11/22/10	CL DLM02.0



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D.A.R.T. Id: 11-0019

Project: 11-0019, Tronox Inc - Reported by Jeffrey Hendel

Dioxin

Project: 11-0019, Tronox Inc

Contract Lab Case: 40729

Sample ID: 13759ASF

Lab ID: C104703-36

MD No:

Station ID: 13759

Matrix: Surface Soil

D No: SGS

Date Collected: 10/26/10 11:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	14		%		11/08/10	11/22/10	CL DLM02.0
35822-46-9	1,2,3,4,6,7,8-Heptachlorodibenzodioxin	680		ng/kg dry	4.7	11/08/10	11/22/10	CL DLM02.0
67562-39-4	1,2,3,4,6,7,8-Heptachlorodibenzofuran	220		ng/kg dry	4.7	11/08/10	11/22/10	CL DLM02.0
55673-89-7	1,2,3,4,7,8,9-Heptachlorodibenzofuran	10	U, CLP18	ng/kg dry	4.7	11/08/10	11/22/10	CL DLM02.0
39227-28-6	1,2,3,4,7,8-Hexachlorodibenzodioxin	5.4		ng/kg dry	4.7	11/08/10	11/22/10	CL DLM02.0
70648-26-9	1,2,3,4,7,8-Hexachlorodibenzofuran	16		ng/kg dry	4.7	11/08/10	11/22/10	CL DLM02.0
57653-85-7	1,2,3,6,7,8-Hexachlorodibenzodioxin	23		ng/kg dry	4.7	11/08/10	11/22/10	CL DLM02.0
57117-44-9	1,2,3,6,7,8-Hexachlorodibenzofuran	7.5		ng/kg dry	4.7	11/08/10	11/22/10	CL DLM02.0
19408-74-3	1,2,3,7,8,9-Hexachlorodibenzodioxin	14	U, CLP18	ng/kg dry	4.7	11/08/10	11/22/10	CL DLM02.0
72918-21-9	1,2,3,7,8,9-Hexachlorodibenzofuran	4.0	J, CLP01	ng/kg dry	4.7	11/08/10	11/22/10	CL DLM02.0
40321-76-4	1,2,3,7,8-Pentachlorodibenzodioxin	3.0	J, CLP01	ng/kg dry	4.7	11/08/10	11/22/10	CL DLM02.0
57117-41-6	1,2,3,7,8-Pentachlorodibenzofuran	1.1	J, CLP01	ng/kg dry	4.7	11/08/10	11/22/10	CL DLM02.0
60851-34-5	2,3,4,6,7,8-Hexachlorodibenzofuran	12		ng/kg dry	4.7	11/08/10	11/22/10	CL DLM02.0
57117-31-4	2,3,4,7,8-Pentachlorodibenzofuran	8.8		ng/kg dry	4.7	11/08/10	11/22/10	CL DLM02.0
1746-01-6	2,3,7,8-Tetrachlorodibenzodioxin	0.45	U, R, CLP27	ng/kg dry	0.95	11/08/10	11/22/10	CL DLM02.0
51207-31-9	2,3,7,8-Tetrachlorodibenzofuran	1.3	CLP10	ng/kg dry	0.95	11/08/10	11/22/10	CL DLM02.0
37871-00-4	Heptachlorodibenzodioxin (Total)	1900	J, Q-3	ng/kg dry	4.7	11/08/10	11/22/10	CL DLM02.0
38998-75-3	Heptachlorodibenzofuran (Total)	750	J, Q-3	ng/kg dry	4.7	11/08/10	11/22/10	CL DLM02.0
34465-46-8	Hexachlorodibenzodioxin (Total)	170	J, Q-3	ng/kg dry	4.7	11/08/10	11/22/10	CL DLM02.0
55684-94-1	Hexachlorodibenzofuran (Total)	270	J, Q-3	ng/kg dry	4.7	11/08/10	11/22/10	CL DLM02.0
3268-87-9	Octachlorodibenzodioxin	9200	J, CLP02	ng/kg dry	9.5	11/08/10	11/22/10	CL DLM02.0
39001-02-0	Octachlorodibenzofuran	350		ng/kg dry	9.5	11/08/10	11/22/10	CL DLM02.0
36088-22-9	Pentachlorodibenzodioxin (Total)	38	J, Q-3	ng/kg dry	4.7	11/08/10	11/22/10	CL DLM02.0
30402-15-4	Pentachlorodibenzofuran (Total)	150	J, Q-3	ng/kg dry	4.7	11/08/10	11/22/10	CL DLM02.0
R4-0428	TEQ (Avian Toxic. Equiv. Value, WHO TEQ-98)	24	J, D-5	ng/kg dry	24	11/08/10	11/22/10	CL DLM02.0
R4-0429	TEQ (Fish Toxic. Equiv. Value, WHO TEQ-98)	19	J, D-5	ng/kg dry	19	11/08/10	11/22/10	CL DLM02.0
R4-0430	TEQ (Mammalian Toxic. Equiv. Value, WHO TEQ-2005)	26	J, D-5	ng/kg dry	26	11/08/10	11/22/10	CL DLM02.0
41903-57-5	Tetrachlorodibenzodioxin (Total)	3.4	J, Q-3	ng/kg dry	0.95	11/08/10	11/22/10	CL DLM02.0



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980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0019

Project: 11-0019, Tronox Inc - Reported by Jeffrey Hendel

Dioxin

Project: 11-0019, Tronox Inc

Contract Lab Case: 40729

Sample ID: 13759ASF

Lab ID: C104703-36

MD No:

Station ID: 13759

Matrix: Surface Soil

D No: SGS

Date Collected: 10/26/10 11:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
30402-14-3	Tetrachlorodibenzofuran (Total)	24	J, Q-3	ng/kg dry	0.95	11/08/10	11/22/10	CL DLM02.0



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D.A.R.T. Id: 11-0019

Project: 11-0019, Tronox Inc - Reported by Jeffrey Hendel

Dioxin

Project: 11-0019, Tronox Inc

Contract Lab Case: 40729

Sample ID: 13761ASF

Lab ID: C104703-37

MD No:

Station ID: 13761

Matrix: Surface Soil

D No: SGS

Date Collected: 10/26/10 11:25

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	17		%		11/08/10	11/08/10	CL DLM02.0
35822-46-9	1,2,3,4,6,7,8-Heptachlorodibenzodioxin	2100		ng/kg dry	48	11/08/10	12/08/10	CL DLM02.0
67562-39-4	1,2,3,4,6,7,8-Heptachlorodibenzofuran	640		ng/kg dry	4.8	11/08/10	11/08/10	CL DLM02.0
55673-89-7	1,2,3,4,7,8,9-Heptachlorodibenzofuran	64		ng/kg dry	4.8	11/08/10	11/08/10	CL DLM02.0
39227-28-6	1,2,3,4,7,8-Hexachlorodibenzodioxin	16	U, CLP18	ng/kg dry	4.8	11/08/10	11/08/10	CL DLM02.0
70648-26-9	1,2,3,4,7,8-Hexachlorodibenzofuran	42		ng/kg dry	4.8	11/08/10	11/08/10	CL DLM02.0
57653-85-7	1,2,3,6,7,8-Hexachlorodibenzodioxin	77		ng/kg dry	4.8	11/08/10	11/08/10	CL DLM02.0
57117-44-9	1,2,3,6,7,8-Hexachlorodibenzofuran	17		ng/kg dry	4.8	11/08/10	11/08/10	CL DLM02.0
19408-74-3	1,2,3,7,8,9-Hexachlorodibenzodioxin	31		ng/kg dry	4.8	11/08/10	11/08/10	CL DLM02.0
72918-21-9	1,2,3,7,8,9-Hexachlorodibenzofuran	8.8		ng/kg dry	4.8	11/08/10	11/08/10	CL DLM02.0
40321-76-4	1,2,3,7,8-Pentachlorodibenzodioxin	6.0		ng/kg dry	4.8	11/08/10	11/08/10	CL DLM02.0
57117-41-6	1,2,3,7,8-Pentachlorodibenzofuran	2.0	J, CLP01	ng/kg dry	4.8	11/08/10	11/08/10	CL DLM02.0
60851-34-5	2,3,4,6,7,8-Hexachlorodibenzofuran	24		ng/kg dry	4.8	11/08/10	11/08/10	CL DLM02.0
57117-31-4	2,3,4,7,8-Pentachlorodibenzofuran	8.2		ng/kg dry	4.8	11/08/10	11/08/10	CL DLM02.0
1746-01-6	2,3,7,8-Tetrachlorodibenzodioxin	0.57	U, R, CLP27	ng/kg dry	0.96	11/08/10	11/08/10	CL DLM02.0
51207-31-9	2,3,7,8-Tetrachlorodibenzofuran	0.72	U	ng/kg dry	0.96	11/08/10	11/08/10	CL DLM02.0
37871-00-4	Heptachlorodibenzodioxin (Total)	5000	J, Q-3	ng/kg dry	48	11/08/10	12/08/10	CL DLM02.0
38998-75-3	Heptachlorodibenzofuran (Total)	4700	J, Q-3	ng/kg dry	4.8	11/08/10	11/08/10	CL DLM02.0
34465-46-8	Hexachlorodibenzodioxin (Total)	450	J, Q-3	ng/kg dry	4.8	11/08/10	11/08/10	CL DLM02.0
55684-94-1	Hexachlorodibenzofuran (Total)	730	J, Q-3	ng/kg dry	4.8	11/08/10	11/08/10	CL DLM02.0
3268-87-9	Octachlorodibenzodioxin	16000		ng/kg dry	96	11/08/10	12/08/10	CL DLM02.0
39001-02-0	Octachlorodibenzofuran	3100		ng/kg dry	9.6	11/08/10	11/08/10	CL DLM02.0
36088-22-9	Pentachlorodibenzodioxin (Total)	48	J, Q-3	ng/kg dry	4.8	11/08/10	11/08/10	CL DLM02.0
30402-15-4	Pentachlorodibenzofuran (Total)	110	J, Q-3	ng/kg dry	4.8	11/08/10	11/08/10	CL DLM02.0
R4-0428	TEQ (Avian Toxic. Equiv. Value, WHO TEQ-98)	41		ng/kg dry	41	11/08/10	11/08/10	CL DLM02.0
R4-0429	TEQ (Fish Toxic. Equiv. Value, WHO TEQ-98)	40		ng/kg dry	40	11/08/10	11/08/10	CL DLM02.0
R4-0430	TEQ (Mammalian Toxic. Equiv. Value, WHO TEQ-2005)	65		ng/kg dry	65	11/08/10	11/08/10	CL DLM02.0
41903-57-5	Tetrachlorodibenzodioxin (Total)	2.7	J, Q-3	ng/kg dry	0.96	11/08/10	11/08/10	CL DLM02.0



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D.A.R.T. Id: 11-0019

Project: 11-0019, Tronox Inc - Reported by Jeffrey Hendel

Dioxin

Project: 11-0019, Tronox Inc

Contract Lab Case: 40729

Sample ID: 13761ASF

Lab ID: C104703-37

MD No:

Station ID: 13761

Matrix: Surface Soil

D No: SGS

Date Collected: 10/26/10 11:25

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
30402-14-3	Tetrachlorodibenzofuran (Total)	11	J, Q-3	ng/kg dry	0.96	11/08/10	11/08/10	CL DLM02.0



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D.A.R.T. Id: 11-0019

Project: 11-0019, Tronox Inc - Reported by Jeffrey Hendel

Dioxin

Project: 11-0019, Tronox Inc

Contract Lab Case: 40729

Sample ID: 13762ASF

Lab ID: C104703-38

MD No:

Station ID: 13762

Matrix: Surface Soil

D No: SGS

Date Collected: 10/26/10 13:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	17		%		11/08/10	11/22/10	CL DLM02.0
35822-46-9	1,2,3,4,6,7,8-Heptachlorodibenzodioxin	690		ng/kg dry	4.9	11/08/10	11/22/10	CL DLM02.0
67562-39-4	1,2,3,4,6,7,8-Heptachlorodibenzofuran	160	U, D-4	ng/kg dry	4.9	11/08/10	11/22/10	CL DLM02.0
55673-89-7	1,2,3,4,7,8,9-Heptachlorodibenzofuran	11		ng/kg dry	4.9	11/08/10	11/22/10	CL DLM02.0
39227-28-6	1,2,3,4,7,8-Hexachlorodibenzodioxin	6.2		ng/kg dry	4.9	11/08/10	11/22/10	CL DLM02.0
70648-26-9	1,2,3,4,7,8-Hexachlorodibenzofuran	16		ng/kg dry	4.9	11/08/10	11/22/10	CL DLM02.0
57653-85-7	1,2,3,6,7,8-Hexachlorodibenzodioxin	21		ng/kg dry	4.9	11/08/10	11/22/10	CL DLM02.0
57117-44-9	1,2,3,6,7,8-Hexachlorodibenzofuran	6.7		ng/kg dry	4.9	11/08/10	11/22/10	CL DLM02.0
19408-74-3	1,2,3,7,8,9-Hexachlorodibenzodioxin	13		ng/kg dry	4.9	11/08/10	11/22/10	CL DLM02.0
72918-21-9	1,2,3,7,8,9-Hexachlorodibenzofuran	3.8	U, CLP18	ng/kg dry	4.9	11/08/10	11/22/10	CL DLM02.0
40321-76-4	1,2,3,7,8-Pentachlorodibenzodioxin	2.6	J, CLP01	ng/kg dry	4.9	11/08/10	11/22/10	CL DLM02.0
57117-41-6	1,2,3,7,8-Pentachlorodibenzofuran	1.3	J, CLP01	ng/kg dry	4.9	11/08/10	11/22/10	CL DLM02.0
60851-34-5	2,3,4,6,7,8-Hexachlorodibenzofuran	9.4		ng/kg dry	4.9	11/08/10	11/22/10	CL DLM02.0
57117-31-4	2,3,4,7,8-Pentachlorodibenzofuran	6.2		ng/kg dry	4.9	11/08/10	11/22/10	CL DLM02.0
1746-01-6	2,3,7,8-Tetrachlorodibenzodioxin	0.44	U, R, CLP27	ng/kg dry	0.99	11/08/10	11/22/10	CL DLM02.0
51207-31-9	2,3,7,8-Tetrachlorodibenzofuran	1.0	U, CLP18	ng/kg dry	0.99	11/08/10	11/22/10	CL DLM02.0
37871-00-4	Heptachlorodibenzodioxin (Total)	2000	J, Q-3	ng/kg dry	4.9	11/08/10	11/22/10	CL DLM02.0
38998-75-3	Heptachlorodibenzofuran (Total)	670	J, Q-3	ng/kg dry	4.9	11/08/10	11/22/10	CL DLM02.0
34465-46-8	Hexachlorodibenzodioxin (Total)	150	J, Q-3	ng/kg dry	4.9	11/08/10	11/22/10	CL DLM02.0
55684-94-1	Hexachlorodibenzofuran (Total)	200	J, Q-3	ng/kg dry	4.9	11/08/10	11/22/10	CL DLM02.0
3268-87-9	Octachlorodibenzodioxin	8300	J, CLP02	ng/kg dry	9.9	11/08/10	11/22/10	CL DLM02.0
39001-02-0	Octachlorodibenzofuran	400		ng/kg dry	9.9	11/08/10	11/22/10	CL DLM02.0
36088-22-9	Pentachlorodibenzodioxin (Total)	29	J, Q-3	ng/kg dry	4.9	11/08/10	11/22/10	CL DLM02.0
30402-15-4	Pentachlorodibenzofuran (Total)	67	J, Q-3	ng/kg dry	4.9	11/08/10	11/22/10	CL DLM02.0
R4-0428	TEQ (Avian Toxic. Equiv. Value, WHO TEQ-98)	19	J, D-5	ng/kg dry	19	11/08/10	11/22/10	CL DLM02.0
R4-0429	TEQ (Fish Toxic. Equiv. Value, WHO TEQ-98)	16	J, D-5	ng/kg dry	16	11/08/10	11/22/10	CL DLM02.0
R4-0430	TEQ (Mammalian Toxic. Equiv. Value, WHO TEQ-2005)	24	J, D-5	ng/kg dry	24	11/08/10	11/22/10	CL DLM02.0
41903-57-5	Tetrachlorodibenzodioxin (Total)	4.4	J, Q-3	ng/kg dry	0.99	11/08/10	11/22/10	CL DLM02.0



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D.A.R.T. Id: 11-0019
Project: 11-0019, Tronox Inc - Reported by Jeffrey Hendel

Dioxin

Project: 11-0019, Tronox Inc

Contract Lab Case: 40729

Sample ID: 13762ASF

Lab ID: C104703-38

MD No:

Station ID: 13762

Matrix: Surface Soil

D No: SGS

Date Collected: 10/26/10 13:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
30402-14-3	Tetrachlorodibenzofuran (Total)	15	J, Q-3	ng/kg dry	0.99	11/08/10	11/22/10	CL DLM02.0



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D.A.R.T. Id: 11-0019

Project: 11-0019, Tronox Inc - Reported by Jeffrey Hendel

Dioxin

Project: 11-0019, Tronox Inc

Contract Lab Case: 40729

Sample ID: 13766ASF

Lab ID: C104703-39

MD No:

Station ID: 13766

Matrix: Surface Soil

D No: SGS

Date Collected: 10/26/10 13:20

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	13		%		11/08/10	11/22/10	CL DLM02.0
35822-46-9	1,2,3,4,6,7,8-Heptachlorodibenzodioxin	270		ng/kg dry	4.8	11/08/10	11/22/10	CL DLM02.0
67562-39-4	1,2,3,4,6,7,8-Heptachlorodibenzofuran	170	U, D-4	ng/kg dry	4.8	11/08/10	11/22/10	CL DLM02.0
55673-89-7	1,2,3,4,7,8,9-Heptachlorodibenzofuran	6.1		ng/kg dry	4.8	11/08/10	11/22/10	CL DLM02.0
39227-28-6	1,2,3,4,7,8-Hexachlorodibenzodioxin	3.5	J, CLP01	ng/kg dry	4.8	11/08/10	11/22/10	CL DLM02.0
70648-26-9	1,2,3,4,7,8-Hexachlorodibenzofuran	9.6		ng/kg dry	4.8	11/08/10	11/22/10	CL DLM02.0
57653-85-7	1,2,3,6,7,8-Hexachlorodibenzodioxin	10		ng/kg dry	4.8	11/08/10	11/22/10	CL DLM02.0
57117-44-9	1,2,3,6,7,8-Hexachlorodibenzofuran	5.1		ng/kg dry	4.8	11/08/10	11/22/10	CL DLM02.0
19408-74-3	1,2,3,7,8,9-Hexachlorodibenzodioxin	7.2		ng/kg dry	4.8	11/08/10	11/22/10	CL DLM02.0
72918-21-9	1,2,3,7,8,9-Hexachlorodibenzofuran	1.8	J, CLP01	ng/kg dry	4.8	11/08/10	11/22/10	CL DLM02.0
40321-76-4	1,2,3,7,8-Pentachlorodibenzodioxin	1.5	J, CLP01	ng/kg dry	4.8	11/08/10	11/22/10	CL DLM02.0
57117-41-6	1,2,3,7,8-Pentachlorodibenzofuran	0.72	J, CLP01	ng/kg dry	4.8	11/08/10	11/22/10	CL DLM02.0
60851-34-5	2,3,4,6,7,8-Hexachlorodibenzofuran	6.8		ng/kg dry	4.8	11/08/10	11/22/10	CL DLM02.0
57117-31-4	2,3,4,7,8-Pentachlorodibenzofuran	3.8	J, CLP01	ng/kg dry	4.8	11/08/10	11/22/10	CL DLM02.0
1746-01-6	2,3,7,8-Tetrachlorodibenzodioxin	0.36	U, R, CLP27	ng/kg dry	0.97	11/08/10	11/22/10	CL DLM02.0
51207-31-9	2,3,7,8-Tetrachlorodibenzofuran	0.65	J, CLP01, CLP10	ng/kg dry	0.97	11/08/10	11/22/10	CL DLM02.0
37871-00-4	Heptachlorodibenzodioxin (Total)	700	J, Q-3	ng/kg dry	4.8	11/08/10	11/22/10	CL DLM02.0
38998-75-3	Heptachlorodibenzofuran (Total)	440	J, Q-3	ng/kg dry	4.8	11/08/10	11/22/10	CL DLM02.0
34465-46-8	Hexachlorodibenzodioxin (Total)	74	J, Q-3	ng/kg dry	4.8	11/08/10	11/22/10	CL DLM02.0
55684-94-1	Hexachlorodibenzofuran (Total)	130	J, Q-3	ng/kg dry	4.8	11/08/10	11/22/10	CL DLM02.0
3268-87-9	Octachlorodibenzodioxin	2300		ng/kg dry	9.7	11/08/10	11/22/10	CL DLM02.0
39001-02-0	Octachlorodibenzofuran	250		ng/kg dry	9.7	11/08/10	11/22/10	CL DLM02.0
36088-22-9	Pentachlorodibenzodioxin (Total)	14	J, Q-3	ng/kg dry	4.8	11/08/10	11/22/10	CL DLM02.0
30402-15-4	Pentachlorodibenzofuran (Total)	40	J, Q-3	ng/kg dry	4.8	11/08/10	11/22/10	CL DLM02.0
R4-0428	TEQ (Avian Toxic. Equiv. Value, WHO TEQ-98)	12	J, D-5	ng/kg dry	12	11/08/10	11/22/10	CL DLM02.0
R4-0429	TEQ (Fish Toxic. Equiv. Value, WHO TEQ-98)	10	J, D-5	ng/kg dry	10	11/08/10	11/22/10	CL DLM02.0
R4-0430	TEQ (Mammalian Toxic. Equiv. Value, WHO TEQ-2005)	13	J, D-5	ng/kg dry	13	11/08/10	11/22/10	CL DLM02.0
41903-57-5	Tetrachlorodibenzodioxin (Total)	1.9	J, Q-3	ng/kg dry	0.97	11/08/10	11/22/10	CL DLM02.0



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Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0019
Project: 11-0019, Tronox Inc - Reported by Jeffrey Hendel

Dioxin

Project: 11-0019, Tronox Inc

Contract Lab Case: 40729

Sample ID: 13766ASF

Lab ID: C104703-39

MD No:

Station ID: 13766

Matrix: Surface Soil

D No: SGS

Date Collected: 10/26/10 13:20

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
30402-14-3	Tetrachlorodibenzofuran (Total)	8.3	J, Q-3	ng/kg dry	0.97	11/08/10	11/22/10	CL DLM02.0



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D.A.R.T. Id: 11-0019

Project: 11-0019, Tronox Inc - Reported by Jeffrey Hendel

Dioxin

Project: 11-0019, Tronox Inc

Contract Lab Case: 40729

Sample ID: 13767ASF

Lab ID: C104703-40

MD No:

Station ID: 13767

Matrix: Surface Soil

D No: SGS

Date Collected: 10/25/10 15:41

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	11		%		11/04/10	11/30/10	CL DLM02.0
35822-46-9	1,2,3,4,6,7,8-Heptachlorodibenzodioxin	740		ng/kg dry	4.6	11/04/10	11/30/10	CL DLM02.0
67562-39-4	1,2,3,4,6,7,8-Heptachlorodibenzofuran	120		ng/kg dry	4.6	11/04/10	11/30/10	CL DLM02.0
55673-89-7	1,2,3,4,7,8,9-Heptachlorodibenzofuran	11		ng/kg dry	4.6	11/04/10	11/30/10	CL DLM02.0
39227-28-6	1,2,3,4,7,8-Hexachlorodibenzodioxin	2.8	J, CLP01	ng/kg dry	4.6	11/04/10	11/30/10	CL DLM02.0
70648-26-9	1,2,3,4,7,8-Hexachlorodibenzofuran	18		ng/kg dry	4.6	11/04/10	11/30/10	CL DLM02.0
57653-85-7	1,2,3,6,7,8-Hexachlorodibenzodioxin	18		ng/kg dry	4.6	11/04/10	11/30/10	CL DLM02.0
57117-44-9	1,2,3,6,7,8-Hexachlorodibenzofuran	4.3	U, CLP18	ng/kg dry	4.6	11/04/10	11/30/10	CL DLM02.0
19408-74-3	1,2,3,7,8,9-Hexachlorodibenzodioxin	5.7	U, CLP18	ng/kg dry	4.6	11/04/10	11/30/10	CL DLM02.0
72918-21-9	1,2,3,7,8,9-Hexachlorodibenzofuran	3.8	J, CLP01	ng/kg dry	4.6	11/04/10	11/30/10	CL DLM02.0
40321-76-4	1,2,3,7,8-Pentachlorodibenzodioxin	1.2	U, CLP18	ng/kg dry	4.6	11/04/10	11/30/10	CL DLM02.0
57117-41-6	1,2,3,7,8-Pentachlorodibenzofuran	0.91	J, CLP01	ng/kg dry	4.6	11/04/10	11/30/10	CL DLM02.0
60851-34-5	2,3,4,6,7,8-Hexachlorodibenzofuran	6.9		ng/kg dry	4.6	11/04/10	11/30/10	CL DLM02.0
57117-31-4	2,3,4,7,8-Pentachlorodibenzofuran	4.0	J, CLP01	ng/kg dry	4.6	11/04/10	11/30/10	CL DLM02.0
1746-01-6	2,3,7,8-Tetrachlorodibenzodioxin	0.30	U, R, CLP27	ng/kg dry	0.92	11/04/10	11/30/10	CL DLM02.0
51207-31-9	2,3,7,8-Tetrachlorodibenzofuran	0.41	U	ng/kg dry	0.92	11/04/10	11/30/10	CL DLM02.0
37871-00-4	Heptachlorodibenzodioxin (Total)	3600	J, Q-3	ng/kg dry	4.6	11/04/10	11/30/10	CL DLM02.0
38998-75-3	Heptachlorodibenzofuran (Total)	670	J, Q-3	ng/kg dry	4.6	11/04/10	11/30/10	CL DLM02.0
34465-46-8	Hexachlorodibenzodioxin (Total)	160	J, Q-3	ng/kg dry	4.6	11/04/10	11/30/10	CL DLM02.0
55684-94-1	Hexachlorodibenzofuran (Total)	170	J, Q-3	ng/kg dry	4.6	11/04/10	11/30/10	CL DLM02.0
3268-87-9	Octachlorodibenzodioxin	14000	J, CLP02	ng/kg dry	9.2	11/04/10	11/30/10	CL DLM02.0
39001-02-0	Octachlorodibenzofuran	320		ng/kg dry	9.2	11/04/10	11/30/10	CL DLM02.0
36088-22-9	Pentachlorodibenzodioxin (Total)	13	J, Q-3	ng/kg dry	4.6	11/04/10	11/30/10	CL DLM02.0
30402-15-4	Pentachlorodibenzofuran (Total)	25	J, Q-3	ng/kg dry	4.6	11/04/10	11/30/10	CL DLM02.0
R4-0428	TEQ (Avian Toxic. Equiv. Value, WHO TEQ-98)	14	J, D-5	ng/kg dry	14	11/04/10	11/30/10	CL DLM02.0
R4-0429	TEQ (Fish Toxic. Equiv. Value, WHO TEQ-98)	12	J, D-5	ng/kg dry	12	11/04/10	11/30/10	CL DLM02.0
R4-0430	TEQ (Mammalian Toxic. Equiv. Value, WHO TEQ-2005)	22	J, D-5	ng/kg dry	22	11/04/10	11/30/10	CL DLM02.0
41903-57-5	Tetrachlorodibenzodioxin (Total)	0.30	U, J, Q-3	ng/kg dry	0.92	11/04/10	11/30/10	CL DLM02.0



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D.A.R.T. Id: 11-0019

Project: 11-0019, Tronox Inc - Reported by Jeffrey Hendel

Dioxin

Project: 11-0019, Tronox Inc

Contract Lab Case: 40729

Sample ID: 13767ASF

Lab ID: C104703-40

MD No:

Station ID: 13767

Matrix: Surface Soil

D No: SGS

Date Collected: 10/25/10 15:41

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
30402-14-3	Tetrachlorodibenzofuran (Total)	0.39	J, Q-3	ng/kg dry	0.92	11/04/10	11/30/10	CL DLM02.0



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D.A.R.T. Id: 11-0019

Project: 11-0019, Tronox Inc - Reported by Jeffrey Hendel

Dioxin

Project: 11-0019, Tronox Inc

Contract Lab Case: 40729

Sample ID: 13774ASF

Lab ID: C104703-41

MD No:

Station ID: 13774

Matrix: Surface Soil

D No: SGS

Date Collected: 10/26/10 12:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	15		%		11/04/10	11/30/10	CL DLM02.0
35822-46-9	1,2,3,4,6,7,8-Heptachlorodibenzodioxin	95		ng/kg dry	4.9	11/04/10	11/30/10	CL DLM02.0
67562-39-4	1,2,3,4,6,7,8-Heptachlorodibenzofuran	19	U, D-4	ng/kg dry	4.9	11/04/10	11/30/10	CL DLM02.0
55673-89-7	1,2,3,4,7,8,9-Heptachlorodibenzofuran	1.3	J, CLP01	ng/kg dry	4.9	11/04/10	11/30/10	CL DLM02.0
39227-28-6	1,2,3,4,7,8-Hexachlorodibenzodioxin	1.4	J, CLP01	ng/kg dry	4.9	11/04/10	11/30/10	CL DLM02.0
70648-26-9	1,2,3,4,7,8-Hexachlorodibenzofuran	1.3	U, CLP18	ng/kg dry	4.9	11/04/10	11/30/10	CL DLM02.0
57653-85-7	1,2,3,6,7,8-Hexachlorodibenzodioxin	3.0	J, CLP01	ng/kg dry	4.9	11/04/10	11/30/10	CL DLM02.0
57117-44-9	1,2,3,6,7,8-Hexachlorodibenzofuran	0.72	J, CLP01	ng/kg dry	4.9	11/04/10	11/30/10	CL DLM02.0
19408-74-3	1,2,3,7,8,9-Hexachlorodibenzodioxin	2.6	J, CLP01	ng/kg dry	4.9	11/04/10	11/30/10	CL DLM02.0
72918-21-9	1,2,3,7,8,9-Hexachlorodibenzofuran	0.63	U	ng/kg dry	4.9	11/04/10	11/30/10	CL DLM02.0
40321-76-4	1,2,3,7,8-Pentachlorodibenzodioxin	0.90	U, CLP18	ng/kg dry	4.9	11/04/10	11/30/10	CL DLM02.0
57117-41-6	1,2,3,7,8-Pentachlorodibenzofuran	0.29	U, CLP18	ng/kg dry	4.9	11/04/10	11/30/10	CL DLM02.0
60851-34-5	2,3,4,6,7,8-Hexachlorodibenzofuran	1.2	U, CLP18	ng/kg dry	4.9	11/04/10	11/30/10	CL DLM02.0
57117-31-4	2,3,4,7,8-Pentachlorodibenzofuran	0.63	J, CLP01	ng/kg dry	4.9	11/04/10	11/30/10	CL DLM02.0
1746-01-6	2,3,7,8-Tetrachlorodibenzodioxin	0.37	U, R, CLP27	ng/kg dry	0.98	11/04/10	11/30/10	CL DLM02.0
51207-31-9	2,3,7,8-Tetrachlorodibenzofuran	0.53	U	ng/kg dry	0.98	11/04/10	11/30/10	CL DLM02.0
37871-00-4	Heptachlorodibenzodioxin (Total)	280	J, Q-3	ng/kg dry	4.9	11/04/10	11/30/10	CL DLM02.0
38998-75-3	Heptachlorodibenzofuran (Total)	62	J, Q-3	ng/kg dry	4.9	11/04/10	11/30/10	CL DLM02.0
34465-46-8	Hexachlorodibenzodioxin (Total)	27	J, Q-3	ng/kg dry	4.9	11/04/10	11/30/10	CL DLM02.0
55684-94-1	Hexachlorodibenzofuran (Total)	18	J, Q-3	ng/kg dry	4.9	11/04/10	11/30/10	CL DLM02.0
3268-87-9	Octachlorodibenzodioxin	1600		ng/kg dry	9.8	11/04/10	11/30/10	CL DLM02.0
39001-02-0	Octachlorodibenzofuran	43		ng/kg dry	9.8	11/04/10	11/30/10	CL DLM02.0
36088-22-9	Pentachlorodibenzodioxin (Total)	4.2	J, Q-3	ng/kg dry	4.9	11/04/10	11/30/10	CL DLM02.0
30402-15-4	Pentachlorodibenzofuran (Total)	7.0	J, Q-3	ng/kg dry	4.9	11/04/10	11/30/10	CL DLM02.0
R4-0428	TEQ (Avian Toxic. Equiv. Value, WHO TEQ-98)	3.7	J, D-5	ng/kg dry	3.7	11/04/10	11/30/10	CL DLM02.0
R4-0429	TEQ (Fish Toxic. Equiv. Value, WHO TEQ-98)	3.2	J, D-5	ng/kg dry	3.2	11/04/10	11/30/10	CL DLM02.0
R4-0430	TEQ (Mammalian Toxic. Equiv. Value, WHO TEQ-2005)	4.2	J, D-5	ng/kg dry	4.2	11/04/10	11/30/10	CL DLM02.0
41903-57-5	Tetrachlorodibenzodioxin (Total)	0.37	U, J, Q-3	ng/kg dry	0.98	11/04/10	11/30/10	CL DLM02.0



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0019

Project: 11-0019, Tronox Inc - Reported by Jeffrey Hendel

Dioxin

Project: 11-0019, Tronox Inc

Contract Lab Case: 40729

Sample ID: 13774ASF

Lab ID: C104703-41

MD No:

Station ID: 13774

Matrix: Surface Soil

D No: SGS

Date Collected: 10/26/10 12:30

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
30402-14-3	Tetrachlorodibenzofuran (Total)	0.84	J, Q-3	ng/kg dry	0.98	11/04/10	11/30/10	CL DLM02.0



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D.A.R.T. Id: 11-0019

Project: 11-0019, Tronox Inc - Reported by Jeffrey Hendel

Dioxin

Project: 11-0019, Tronox Inc

Contract Lab Case: 40729

Sample ID: 13775ASB12

Lab ID: C104703-42

MD No:

Station ID: 13775

Matrix: Subsurface Soil

D No: SGS

Date Collected: 10/26/10 14:25

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	10		%		11/04/10	12/02/10	CL DLM02.0
35822-46-9	1,2,3,4,6,7,8-Heptachlorodibenzodioxin	99		ng/kg dry	4.4	11/04/10	12/02/10	CL DLM02.0
67562-39-4	1,2,3,4,6,7,8-Heptachlorodibenzofuran	16	U, D-4	ng/kg dry	4.4	11/04/10	12/02/10	CL DLM02.0
55673-89-7	1,2,3,4,7,8,9-Heptachlorodibenzofuran	0.96	U	ng/kg dry	4.4	11/04/10	12/02/10	CL DLM02.0
39227-28-6	1,2,3,4,7,8-Hexachlorodibenzodioxin	1.1	U	ng/kg dry	4.4	11/04/10	12/02/10	CL DLM02.0
70648-26-9	1,2,3,4,7,8-Hexachlorodibenzofuran	1.0	U, CLP18	ng/kg dry	4.4	11/04/10	12/02/10	CL DLM02.0
57653-85-7	1,2,3,6,7,8-Hexachlorodibenzodioxin	2.4	U, CLP18	ng/kg dry	4.4	11/04/10	12/02/10	CL DLM02.0
57117-44-9	1,2,3,6,7,8-Hexachlorodibenzofuran	0.70	U	ng/kg dry	4.4	11/04/10	12/02/10	CL DLM02.0
19408-74-3	1,2,3,7,8,9-Hexachlorodibenzodioxin	3.2	U, CLP18	ng/kg dry	4.4	11/04/10	12/02/10	CL DLM02.0
72918-21-9	1,2,3,7,8,9-Hexachlorodibenzofuran	1.1	U	ng/kg dry	4.4	11/04/10	12/02/10	CL DLM02.0
40321-76-4	1,2,3,7,8-Pentachlorodibenzodioxin	0.78	U	ng/kg dry	4.4	11/04/10	12/02/10	CL DLM02.0
57117-41-6	1,2,3,7,8-Pentachlorodibenzofuran	0.44	U	ng/kg dry	4.4	11/04/10	12/02/10	CL DLM02.0
60851-34-5	2,3,4,6,7,8-Hexachlorodibenzofuran	1.0	U, CLP18	ng/kg dry	4.4	11/04/10	12/02/10	CL DLM02.0
57117-31-4	2,3,4,7,8-Pentachlorodibenzofuran	0.61	J, CLP01	ng/kg dry	4.4	11/04/10	12/02/10	CL DLM02.0
1746-01-6	2,3,7,8-Tetrachlorodibenzodioxin	0.66	U, R, CLP27	ng/kg dry	0.88	11/04/10	12/02/10	CL DLM02.0
51207-31-9	2,3,7,8-Tetrachlorodibenzofuran	0.66	U	ng/kg dry	0.88	11/04/10	12/02/10	CL DLM02.0
37871-00-4	Heptachlorodibenzodioxin (Total)	270	J, Q-3	ng/kg dry	4.4	11/04/10	12/02/10	CL DLM02.0
38998-75-3	Heptachlorodibenzofuran (Total)	58	J, Q-3	ng/kg dry	4.4	11/04/10	12/02/10	CL DLM02.0
34465-46-8	Hexachlorodibenzodioxin (Total)	26	J, Q-3	ng/kg dry	4.4	11/04/10	12/02/10	CL DLM02.0
55684-94-1	Hexachlorodibenzofuran (Total)	16	J, Q-3	ng/kg dry	4.4	11/04/10	12/02/10	CL DLM02.0
3268-87-9	Octachlorodibenzodioxin	2800		ng/kg dry	8.8	11/04/10	12/02/10	CL DLM02.0
39001-02-0	Octachlorodibenzofuran	33		ng/kg dry	8.8	11/04/10	12/02/10	CL DLM02.0
36088-22-9	Pentachlorodibenzodioxin (Total)	2.2	J, Q-3	ng/kg dry	4.4	11/04/10	12/02/10	CL DLM02.0
30402-15-4	Pentachlorodibenzofuran (Total)	7.5	J, Q-3	ng/kg dry	4.4	11/04/10	12/02/10	CL DLM02.0
R4-0428	TEQ (Avian Toxic. Equiv. Value, WHO TEQ-98)	4.1	J, D-5	ng/kg dry	4.1	11/04/10	12/02/10	CL DLM02.0
R4-0429	TEQ (Fish Toxic. Equiv. Value, WHO TEQ-98)	3.4	J, D-5	ng/kg dry	3.4	11/04/10	12/02/10	CL DLM02.0
R4-0430	TEQ (Mammalian Toxic. Equiv. Value, WHO TEQ-2005)	4.8	J, D-5	ng/kg dry	4.8	11/04/10	12/02/10	CL DLM02.0
41903-57-5	Tetrachlorodibenzodioxin (Total)	0.66	U, J, Q-3	ng/kg dry	0.88	11/04/10	12/02/10	CL DLM02.0



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D.A.R.T. Id: 11-0019

Project: 11-0019, Tronox Inc - Reported by Jeffrey Hendel

Dioxin

Project: 11-0019, Tronox Inc

Contract Lab Case: 40729

Sample ID: 13775ASB12

Lab ID: C104703-42

MD No:

Station ID: 13775

Matrix: Subsurface Soil

D No: SGS

Date Collected: 10/26/10 14:25

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
30402-14-3	Tetrachlorodibenzofuran (Total)	1.3	J, Q-3	ng/kg dry	0.88	11/04/10	12/02/10	CL DLM02.0



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D.A.R.T. Id: 11-0019

Project: 11-0019, Tronox Inc - Reported by Jeffrey Hendel

Dioxin

Project: 11-0019, Tronox Inc

Contract Lab Case: 40729

Sample ID: 13775ASF

Lab ID: C104703-43

MD No:

Station ID: 13775

Matrix: Surface Soil

D No: SGS

Date Collected: 10/26/10 14:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	17		%		11/04/10	11/30/10	CL DLM02.0
35822-46-9	1,2,3,4,6,7,8-Heptachlorodibenzodioxin	110		ng/kg dry	4.7	11/04/10	11/30/10	CL DLM02.0
67562-39-4	1,2,3,4,6,7,8-Heptachlorodibenzofuran	15	U, D-4	ng/kg dry	4.7	11/04/10	11/30/10	CL DLM02.0
55673-89-7	1,2,3,4,7,8,9-Heptachlorodibenzofuran	1.1	J, CLP01	ng/kg dry	4.7	11/04/10	11/30/10	CL DLM02.0
39227-28-6	1,2,3,4,7,8-Hexachlorodibenzodioxin	1.4	U, CLP18	ng/kg dry	4.7	11/04/10	11/30/10	CL DLM02.0
70648-26-9	1,2,3,4,7,8-Hexachlorodibenzofuran	1.0	J, CLP01	ng/kg dry	4.7	11/04/10	11/30/10	CL DLM02.0
57653-85-7	1,2,3,6,7,8-Hexachlorodibenzodioxin	3.4	J, CLP01	ng/kg dry	4.7	11/04/10	11/30/10	CL DLM02.0
57117-44-9	1,2,3,6,7,8-Hexachlorodibenzofuran	0.70	U, CLP18	ng/kg dry	4.7	11/04/10	11/30/10	CL DLM02.0
19408-74-3	1,2,3,7,8,9-Hexachlorodibenzodioxin	2.9	J, CLP01	ng/kg dry	4.7	11/04/10	11/30/10	CL DLM02.0
72918-21-9	1,2,3,7,8,9-Hexachlorodibenzofuran	0.76	J, CLP01	ng/kg dry	4.7	11/04/10	11/30/10	CL DLM02.0
40321-76-4	1,2,3,7,8-Pentachlorodibenzodioxin	0.46	U	ng/kg dry	4.7	11/04/10	11/30/10	CL DLM02.0
57117-41-6	1,2,3,7,8-Pentachlorodibenzofuran	0.27	U, CLP18	ng/kg dry	4.7	11/04/10	11/30/10	CL DLM02.0
60851-34-5	2,3,4,6,7,8-Hexachlorodibenzofuran	0.85	J, CLP01	ng/kg dry	4.7	11/04/10	11/30/10	CL DLM02.0
57117-31-4	2,3,4,7,8-Pentachlorodibenzofuran	0.57	U, CLP18	ng/kg dry	4.7	11/04/10	11/30/10	CL DLM02.0
1746-01-6	2,3,7,8-Tetrachlorodibenzodioxin	0.36	U, R, CLP27	ng/kg dry	0.94	11/04/10	11/30/10	CL DLM02.0
51207-31-9	2,3,7,8-Tetrachlorodibenzofuran	0.42	U	ng/kg dry	0.94	11/04/10	11/30/10	CL DLM02.0
37871-00-4	Heptachlorodibenzodioxin (Total)	330	J, Q-3	ng/kg dry	4.7	11/04/10	11/30/10	CL DLM02.0
38998-75-3	Heptachlorodibenzofuran (Total)	55	J, Q-3	ng/kg dry	4.7	11/04/10	11/30/10	CL DLM02.0
34465-46-8	Hexachlorodibenzodioxin (Total)	34	J, Q-3	ng/kg dry	4.7	11/04/10	11/30/10	CL DLM02.0
55684-94-1	Hexachlorodibenzofuran (Total)	17	J, Q-3	ng/kg dry	4.7	11/04/10	11/30/10	CL DLM02.0
3268-87-9	Octachlorodibenzodioxin	1900		ng/kg dry	9.4	11/04/10	11/30/10	CL DLM02.0
39001-02-0	Octachlorodibenzofuran	34		ng/kg dry	9.4	11/04/10	11/30/10	CL DLM02.0
36088-22-9	Pentachlorodibenzodioxin (Total)	2.2	J, Q-3	ng/kg dry	4.7	11/04/10	11/30/10	CL DLM02.0
30402-15-4	Pentachlorodibenzofuran (Total)	7.0	J, Q-3	ng/kg dry	4.7	11/04/10	11/30/10	CL DLM02.0
R4-0428	TEQ (Avian Toxic. Equiv. Value, WHO TEQ-98)	3.0	J, D-5	ng/kg dry	3.0	11/04/10	11/30/10	CL DLM02.0
R4-0429	TEQ (Fish Toxic. Equiv. Value, WHO TEQ-98)	2.7	J, D-5	ng/kg dry	2.7	11/04/10	11/30/10	CL DLM02.0
R4-0430	TEQ (Mammalian Toxic. Equiv. Value, WHO TEQ-2005)	4.0	J, D-5	ng/kg dry	4.0	11/04/10	11/30/10	CL DLM02.0
41903-57-5	Tetrachlorodibenzodioxin (Total)	1.7	J, Q-3	ng/kg dry	0.94	11/04/10	11/30/10	CL DLM02.0



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0019

Project: 11-0019, Tronox Inc - Reported by Jeffrey Hendel

Dioxin

Project: 11-0019, Tronox Inc

Contract Lab Case: 40729

Sample ID: 13775ASF

Lab ID: C104703-43

MD No:

Station ID: 13775

Matrix: Surface Soil

D No: SGS

Date Collected: 10/26/10 14:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
30402-14-3	Tetrachlorodibenzofuran (Total)	0.84	J, Q-3	ng/kg dry	0.94	11/04/10	11/30/10	CL DLM02.0



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D.A.R.T. Id: 11-0019

Project: 11-0019, Tronox Inc - Reported by Jeffrey Hendel

Dioxin

Project: 11-0019, Tronox Inc

Contract Lab Case: 40729

Sample ID: 13785ASF

Lab ID: C104703-44

MD No:

Station ID: 13785

Matrix: Surface Soil

D No: SGS

Date Collected: 10/26/10 13:40

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	16		%		11/08/10	11/22/10	CL DLM02.0
35822-46-9	1,2,3,4,6,7,8-Heptachlorodibenzodioxin	500		ng/kg dry	4.8	11/08/10	11/22/10	CL DLM02.0
67562-39-4	1,2,3,4,6,7,8-Heptachlorodibenzofuran	100	U, D-4	ng/kg dry	4.8	11/08/10	11/22/10	CL DLM02.0
55673-89-7	1,2,3,4,7,8,9-Heptachlorodibenzofuran	1.6	U	ng/kg dry	4.8	11/08/10	11/22/10	CL DLM02.0
39227-28-6	1,2,3,4,7,8-Hexachlorodibenzodioxin	3.9	U, CLP18	ng/kg dry	4.8	11/08/10	11/22/10	CL DLM02.0
70648-26-9	1,2,3,4,7,8-Hexachlorodibenzofuran	8.2		ng/kg dry	4.8	11/08/10	11/22/10	CL DLM02.0
57653-85-7	1,2,3,6,7,8-Hexachlorodibenzodioxin	14		ng/kg dry	4.8	11/08/10	11/22/10	CL DLM02.0
57117-44-9	1,2,3,6,7,8-Hexachlorodibenzofuran	3.4	J, CLP01	ng/kg dry	4.8	11/08/10	11/22/10	CL DLM02.0
19408-74-3	1,2,3,7,8,9-Hexachlorodibenzodioxin	7.7		ng/kg dry	4.8	11/08/10	11/22/10	CL DLM02.0
72918-21-9	1,2,3,7,8,9-Hexachlorodibenzofuran	1.7	J, CLP01	ng/kg dry	4.8	11/08/10	11/22/10	CL DLM02.0
40321-76-4	1,2,3,7,8-Pentachlorodibenzodioxin	2.3	U, CLP18	ng/kg dry	4.8	11/08/10	11/22/10	CL DLM02.0
57117-41-6	1,2,3,7,8-Pentachlorodibenzofuran	1.1	J, CLP01	ng/kg dry	4.8	11/08/10	11/22/10	CL DLM02.0
60851-34-5	2,3,4,6,7,8-Hexachlorodibenzofuran	5.1		ng/kg dry	4.8	11/08/10	11/22/10	CL DLM02.0
57117-31-4	2,3,4,7,8-Pentachlorodibenzofuran	2.0	J, CLP01	ng/kg dry	4.8	11/08/10	11/22/10	CL DLM02.0
1746-01-6	2,3,7,8-Tetrachlorodibenzodioxin	0.51	U, R, CLP27	ng/kg dry	0.96	11/08/10	11/22/10	CL DLM02.0
51207-31-9	2,3,7,8-Tetrachlorodibenzofuran	1.1	CLP10	ng/kg dry	0.96	11/08/10	11/22/10	CL DLM02.0
37871-00-4	Heptachlorodibenzodioxin (Total)	1700	J, Q-3	ng/kg dry	4.8	11/08/10	11/22/10	CL DLM02.0
38998-75-3	Heptachlorodibenzofuran (Total)	470	J, Q-3	ng/kg dry	4.8	11/08/10	11/22/10	CL DLM02.0
34465-46-8	Hexachlorodibenzodioxin (Total)	120	J, Q-3	ng/kg dry	4.8	11/08/10	11/22/10	CL DLM02.0
55684-94-1	Hexachlorodibenzofuran (Total)	110	J, Q-3	ng/kg dry	4.8	11/08/10	11/22/10	CL DLM02.0
3268-87-9	Octachlorodibenzodioxin	5600	J, CLP02	ng/kg dry	9.6	11/08/10	11/22/10	CL DLM02.0
39001-02-0	Octachlorodibenzofuran	310		ng/kg dry	9.6	11/08/10	11/22/10	CL DLM02.0
36088-22-9	Pentachlorodibenzodioxin (Total)	24	J, Q-3	ng/kg dry	4.8	11/08/10	11/22/10	CL DLM02.0
30402-15-4	Pentachlorodibenzofuran (Total)	26	J, Q-3	ng/kg dry	4.8	11/08/10	11/22/10	CL DLM02.0
R4-0428	TEQ (Avian Toxic. Equiv. Value, WHO TEQ-98)	11	J, D-5	ng/kg dry	11	11/08/10	11/22/10	CL DLM02.0
R4-0429	TEQ (Fish Toxic. Equiv. Value, WHO TEQ-98)	10	J, D-5	ng/kg dry	10	11/08/10	11/22/10	CL DLM02.0
R4-0430	TEQ (Mammalian Toxic. Equiv. Value, WHO TEQ-2005)	16	J, D-5	ng/kg dry	16	11/08/10	11/22/10	CL DLM02.0
41903-57-5	Tetrachlorodibenzodioxin (Total)	1.6	J, Q-3	ng/kg dry	0.96	11/08/10	11/22/10	CL DLM02.0



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Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0019

Project: 11-0019, Tronox Inc - Reported by Jeffrey Hendel

Dioxin

Project: 11-0019, Tronox Inc

Contract Lab Case: 40729

Sample ID: 13785ASF

Lab ID: C104703-44

MD No:

Station ID: 13785

Matrix: Surface Soil

D No: SGS

Date Collected: 10/26/10 13:40

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
30402-14-3	Tetrachlorodibenzofuran (Total)	6.5	J, Q-3	ng/kg dry	0.96	11/08/10	11/22/10	CL DLM02.0



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D.A.R.T. Id: 11-0019

Project: 11-0019, Tronox Inc - Reported by Jeffrey Hendel

Dioxin

Project: 11-0019, Tronox Inc

Contract Lab Case: 40729

Sample ID: 13889ASF

Lab ID: C104703-45

MD No:

Station ID: 13889

Matrix: Surface Soil

D No: SGS

Date Collected: 10/26/10 14:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	15		%		11/04/10	11/30/10	CL DLM02.0
35822-46-9	1,2,3,4,6,7,8-Heptachlorodibenzodioxin	77		ng/kg dry	4.5	11/04/10	11/30/10	CL DLM02.0
67562-39-4	1,2,3,4,6,7,8-Heptachlorodibenzofuran	15	U, D-4	ng/kg dry	4.5	11/04/10	11/30/10	CL DLM02.0
55673-89-7	1,2,3,4,7,8,9-Heptachlorodibenzofuran	0.98	J, CLP01	ng/kg dry	4.5	11/04/10	11/30/10	CL DLM02.0
39227-28-6	1,2,3,4,7,8-Hexachlorodibenzodioxin	0.99	J, CLP01	ng/kg dry	4.5	11/04/10	11/30/10	CL DLM02.0
70648-26-9	1,2,3,4,7,8-Hexachlorodibenzofuran	0.86	J, CLP01	ng/kg dry	4.5	11/04/10	11/30/10	CL DLM02.0
57653-85-7	1,2,3,6,7,8-Hexachlorodibenzodioxin	2.9	J, CLP01	ng/kg dry	4.5	11/04/10	11/30/10	CL DLM02.0
57117-44-9	1,2,3,6,7,8-Hexachlorodibenzofuran	0.52	J, CLP01	ng/kg dry	4.5	11/04/10	11/30/10	CL DLM02.0
19408-74-3	1,2,3,7,8,9-Hexachlorodibenzodioxin	3.0	J, CLP01	ng/kg dry	4.5	11/04/10	11/30/10	CL DLM02.0
72918-21-9	1,2,3,7,8,9-Hexachlorodibenzofuran	0.47	U	ng/kg dry	4.5	11/04/10	11/30/10	CL DLM02.0
40321-76-4	1,2,3,7,8-Pentachlorodibenzodioxin	0.32	U	ng/kg dry	4.5	11/04/10	11/30/10	CL DLM02.0
57117-41-6	1,2,3,7,8-Pentachlorodibenzofuran	0.24	U	ng/kg dry	4.5	11/04/10	11/30/10	CL DLM02.0
60851-34-5	2,3,4,6,7,8-Hexachlorodibenzofuran	0.85	U, CLP18	ng/kg dry	4.5	11/04/10	11/30/10	CL DLM02.0
57117-31-4	2,3,4,7,8-Pentachlorodibenzofuran	0.11	U	ng/kg dry	4.5	11/04/10	11/30/10	CL DLM02.0
1746-01-6	2,3,7,8-Tetrachlorodibenzodioxin	0.25	U, R, CLP27	ng/kg dry	0.90	11/04/10	11/30/10	CL DLM02.0
51207-31-9	2,3,7,8-Tetrachlorodibenzofuran	0.40	U, CLP18	ng/kg dry	0.90	11/04/10	11/30/10	CL DLM02.0
37871-00-4	Heptachlorodibenzodioxin (Total)	210	J, Q-3	ng/kg dry	4.5	11/04/10	11/30/10	CL DLM02.0
38998-75-3	Heptachlorodibenzofuran (Total)	43	J, Q-3	ng/kg dry	4.5	11/04/10	11/30/10	CL DLM02.0
34465-46-8	Hexachlorodibenzodioxin (Total)	23	J, Q-3	ng/kg dry	4.5	11/04/10	11/30/10	CL DLM02.0
55684-94-1	Hexachlorodibenzofuran (Total)	12	J, Q-3	ng/kg dry	4.5	11/04/10	11/30/10	CL DLM02.0
3268-87-9	Octachlorodibenzodioxin	1000		ng/kg dry	9.0	11/04/10	11/30/10	CL DLM02.0
39001-02-0	Octachlorodibenzofuran	26		ng/kg dry	9.0	11/04/10	11/30/10	CL DLM02.0
36088-22-9	Pentachlorodibenzodioxin (Total)	1.1	J, Q-3	ng/kg dry	4.5	11/04/10	11/30/10	CL DLM02.0
30402-15-4	Pentachlorodibenzofuran (Total)	2.2	J, Q-3	ng/kg dry	4.5	11/04/10	11/30/10	CL DLM02.0
R4-0428	TEQ (Avian Toxic. Equiv. Value, WHO TEQ-98)	2.1	J, D-5	ng/kg dry	2.1	11/04/10	11/30/10	CL DLM02.0
R4-0429	TEQ (Fish Toxic. Equiv. Value, WHO TEQ-98)	1.8	J, D-5	ng/kg dry	1.8	11/04/10	11/30/10	CL DLM02.0
R4-0430	TEQ (Mammalian Toxic. Equiv. Value, WHO TEQ-2005)	2.8	J, D-5	ng/kg dry	2.8	11/04/10	11/30/10	CL DLM02.0
41903-57-5	Tetrachlorodibenzodioxin (Total)	0.25	U, J, Q-3	ng/kg dry	0.90	11/04/10	11/30/10	CL DLM02.0



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0019

Project: 11-0019, Tronox Inc - Reported by Jeffrey Hendel

Dioxin

Project: 11-0019, Tronox Inc

Contract Lab Case: 40729

Sample ID: 13889ASF

Lab ID: C104703-45

MD No:

Station ID: 13889

Matrix: Surface Soil

D No: SGS

Date Collected: 10/26/10 14:30

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
30402-14-3	Tetrachlorodibenzofuran (Total)	1.0	J, Q-3	ng/kg dry	0.90	11/04/10	11/30/10	CL DLM02.0



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D.A.R.T. Id: 11-0019

Project: 11-0019, Tronox Inc - Reported by Jeffrey Hendel

Dioxin

Project: 11-0019, Tronox Inc

Contract Lab Case: 40729

Sample ID: 13890ASF

Lab ID: C104703-46

MD No:

Station ID: 13890

Matrix: Surface Soil

D No: SGS

Date Collected: 10/26/10 14:08

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	21		%		11/04/10	11/30/10	CL DLM02.0
35822-46-9	1,2,3,4,6,7,8-Heptachlorodibenzodioxin	250		ng/kg dry	4.8	11/04/10	11/30/10	CL DLM02.0
67562-39-4	1,2,3,4,6,7,8-Heptachlorodibenzofuran	66	U, D-4	ng/kg dry	4.8	11/04/10	11/30/10	CL DLM02.0
55673-89-7	1,2,3,4,7,8,9-Heptachlorodibenzofuran	3.6	J, CLP01	ng/kg dry	4.8	11/04/10	11/30/10	CL DLM02.0
39227-28-6	1,2,3,4,7,8-Hexachlorodibenzodioxin	2.9	U, CLP18	ng/kg dry	4.8	11/04/10	11/30/10	CL DLM02.0
70648-26-9	1,2,3,4,7,8-Hexachlorodibenzofuran	3.4	U, CLP18	ng/kg dry	4.8	11/04/10	11/30/10	CL DLM02.0
57653-85-7	1,2,3,6,7,8-Hexachlorodibenzodioxin	8.9		ng/kg dry	4.8	11/04/10	11/30/10	CL DLM02.0
57117-44-9	1,2,3,6,7,8-Hexachlorodibenzofuran	2.2	J, CLP01	ng/kg dry	4.8	11/04/10	11/30/10	CL DLM02.0
19408-74-3	1,2,3,7,8,9-Hexachlorodibenzodioxin	5.6		ng/kg dry	4.8	11/04/10	11/30/10	CL DLM02.0
72918-21-9	1,2,3,7,8,9-Hexachlorodibenzofuran	0.97	U	ng/kg dry	4.8	11/04/10	11/30/10	CL DLM02.0
40321-76-4	1,2,3,7,8-Pentachlorodibenzodioxin	1.5	J, CLP01	ng/kg dry	4.8	11/04/10	11/30/10	CL DLM02.0
57117-41-6	1,2,3,7,8-Pentachlorodibenzofuran	0.62	J, CLP01	ng/kg dry	4.8	11/04/10	11/30/10	CL DLM02.0
60851-34-5	2,3,4,6,7,8-Hexachlorodibenzofuran	3.0	J, CLP01	ng/kg dry	4.8	11/04/10	11/30/10	CL DLM02.0
57117-31-4	2,3,4,7,8-Pentachlorodibenzofuran	1.3	J, CLP01	ng/kg dry	4.8	11/04/10	11/30/10	CL DLM02.0
1746-01-6	2,3,7,8-Tetrachlorodibenzodioxin	0.42	U, R, CLP27	ng/kg dry	0.96	11/04/10	11/30/10	CL DLM02.0
51207-31-9	2,3,7,8-Tetrachlorodibenzofuran	0.95	J, CLP01, CLP24	ng/kg dry	0.96	11/04/10	11/30/10	CL DLM02.0
37871-00-4	Heptachlorodibenzodioxin (Total)	770	J, Q-3	ng/kg dry	4.8	11/04/10	11/30/10	CL DLM02.0
38998-75-3	Heptachlorodibenzofuran (Total)	230	J, Q-3	ng/kg dry	4.8	11/04/10	11/30/10	CL DLM02.0
34465-46-8	Hexachlorodibenzodioxin (Total)	76	J, Q-3	ng/kg dry	4.8	11/04/10	11/30/10	CL DLM02.0
55684-94-1	Hexachlorodibenzofuran (Total)	55	J, Q-3	ng/kg dry	4.8	11/04/10	11/30/10	CL DLM02.0
3268-87-9	Octachlorodibenzodioxin	2400		ng/kg dry	9.6	11/04/10	11/30/10	CL DLM02.0
39001-02-0	Octachlorodibenzofuran	150		ng/kg dry	9.6	11/04/10	11/30/10	CL DLM02.0
36088-22-9	Pentachlorodibenzodioxin (Total)	16	J, Q-3	ng/kg dry	4.8	11/04/10	11/30/10	CL DLM02.0
30402-15-4	Pentachlorodibenzofuran (Total)	18	J, Q-3	ng/kg dry	4.8	11/04/10	11/30/10	CL DLM02.0
R4-0428	TEQ (Avian Toxic. Equiv. Value, WHO TEQ-98)	7.2	J, D-5	ng/kg dry	7.2	11/04/10	11/30/10	CL DLM02.0
R4-0429	TEQ (Fish Toxic. Equiv. Value, WHO TEQ-98)	6.4	J, D-5	ng/kg dry	6.4	11/04/10	11/30/10	CL DLM02.0
R4-0430	TEQ (Mammalian Toxic. Equiv. Value, WHO TEQ-2005)	9.1	J, D-5	ng/kg dry	9.1	11/04/10	11/30/10	CL DLM02.0
41903-57-5	Tetrachlorodibenzodioxin (Total)	2.6	J, Q-3	ng/kg dry	0.96	11/04/10	11/30/10	CL DLM02.0



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0019

Project: 11-0019, Tronox Inc - Reported by Jeffrey Hendel

Dioxin

Project: 11-0019, Tronox Inc

Contract Lab Case: 40729

Sample ID: 13890ASF

Lab ID: C104703-46

MD No:

Station ID: 13890

Matrix: Surface Soil

D No: SGS

Date Collected: 10/26/10 14:08

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
30402-14-3	Tetrachlorodibenzofuran (Total)	6.2	J, Q-3	ng/kg dry	0.96	11/04/10	11/30/10	CL DLM02.0



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D.A.R.T. Id: 11-0019

Project: 11-0019, Tronox Inc - Reported by Jeffrey Hendel

Dioxin

Project: 11-0019, Tronox Inc

Contract Lab Case: 40729

Sample ID: 13894ASF

Lab ID: C104703-47

MD No:

Station ID: 13894

Matrix: Surface Soil

D No: SGS

Date Collected: 10/26/10 13:10

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	13		%		11/08/10	11/22/10	CL DLM02.0
35822-46-9	1,2,3,4,6,7,8-Heptachlorodibenzodioxin	94		ng/kg dry	4.8	11/08/10	11/22/10	CL DLM02.0
67562-39-4	1,2,3,4,6,7,8-Heptachlorodibenzofuran	22	U, D-4	ng/kg dry	4.8	11/08/10	11/22/10	CL DLM02.0
55673-89-7	1,2,3,4,7,8,9-Heptachlorodibenzofuran	0.88	U	ng/kg dry	4.8	11/08/10	11/22/10	CL DLM02.0
39227-28-6	1,2,3,4,7,8-Hexachlorodibenzodioxin	1.3	J, CLP01	ng/kg dry	4.8	11/08/10	11/22/10	CL DLM02.0
70648-26-9	1,2,3,4,7,8-Hexachlorodibenzofuran	1.8	U, CLP18	ng/kg dry	4.8	11/08/10	11/22/10	CL DLM02.0
57653-85-7	1,2,3,6,7,8-Hexachlorodibenzodioxin	3.4	J, CLP01	ng/kg dry	4.8	11/08/10	11/22/10	CL DLM02.0
57117-44-9	1,2,3,6,7,8-Hexachlorodibenzofuran	1.0	J, CLP01	ng/kg dry	4.8	11/08/10	11/22/10	CL DLM02.0
19408-74-3	1,2,3,7,8,9-Hexachlorodibenzodioxin	2.8	J, CLP01	ng/kg dry	4.8	11/08/10	11/22/10	CL DLM02.0
72918-21-9	1,2,3,7,8,9-Hexachlorodibenzofuran	0.72	U	ng/kg dry	4.8	11/08/10	11/22/10	CL DLM02.0
40321-76-4	1,2,3,7,8-Pentachlorodibenzodioxin	0.48	U	ng/kg dry	4.8	11/08/10	11/22/10	CL DLM02.0
57117-41-6	1,2,3,7,8-Pentachlorodibenzofuran	0.32	U	ng/kg dry	4.8	11/08/10	11/22/10	CL DLM02.0
60851-34-5	2,3,4,6,7,8-Hexachlorodibenzofuran	1.3	U, CLP18	ng/kg dry	4.8	11/08/10	11/22/10	CL DLM02.0
57117-31-4	2,3,4,7,8-Pentachlorodibenzofuran	0.36	U	ng/kg dry	4.8	11/08/10	11/22/10	CL DLM02.0
1746-01-6	2,3,7,8-Tetrachlorodibenzodioxin	0.42	U, R, CLP27	ng/kg dry	0.96	11/08/10	11/22/10	CL DLM02.0
51207-31-9	2,3,7,8-Tetrachlorodibenzofuran	0.43	U	ng/kg dry	0.96	11/08/10	11/22/10	CL DLM02.0
37871-00-4	Heptachlorodibenzodioxin (Total)	270	J, Q-3	ng/kg dry	4.8	11/08/10	11/22/10	CL DLM02.0
38998-75-3	Heptachlorodibenzofuran (Total)	67	J, Q-3	ng/kg dry	4.8	11/08/10	11/22/10	CL DLM02.0
34465-46-8	Hexachlorodibenzodioxin (Total)	29	J, Q-3	ng/kg dry	4.8	11/08/10	11/22/10	CL DLM02.0
55684-94-1	Hexachlorodibenzofuran (Total)	23	J, Q-3	ng/kg dry	4.8	11/08/10	11/22/10	CL DLM02.0
3268-87-9	Octachlorodibenzodioxin	1000		ng/kg dry	9.6	11/08/10	11/22/10	CL DLM02.0
39001-02-0	Octachlorodibenzofuran	38		ng/kg dry	9.6	11/08/10	11/22/10	CL DLM02.0
36088-22-9	Pentachlorodibenzodioxin (Total)	1.9	J, Q-3	ng/kg dry	4.8	11/08/10	11/22/10	CL DLM02.0
30402-15-4	Pentachlorodibenzofuran (Total)	5.1	J, Q-3	ng/kg dry	4.8	11/08/10	11/22/10	CL DLM02.0
R4-0428	TEQ (Avian Toxic. Equiv. Value, WHO TEQ-98)	3.0	J, D-5	ng/kg dry	3.0	11/08/10	11/22/10	CL DLM02.0
R4-0429	TEQ (Fish Toxic. Equiv. Value, WHO TEQ-98)	2.7	J, D-5	ng/kg dry	2.7	11/08/10	11/22/10	CL DLM02.0
R4-0430	TEQ (Mammalian Toxic. Equiv. Value, WHO TEQ-2005)	3.8	J, D-5	ng/kg dry	3.8	11/08/10	11/22/10	CL DLM02.0
41903-57-5	Tetrachlorodibenzodioxin (Total)	0.42	U, J, Q-3	ng/kg dry	0.96	11/08/10	11/22/10	CL DLM02.0



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D.A.R.T. Id: 11-0019

Project: 11-0019, Tronox Inc - Reported by Jeffrey Hendel

Dioxin

Project: 11-0019, Tronox Inc

Contract Lab Case: 40729

Sample ID: 13894ASF

Lab ID: C104703-47

MD No:

Station ID: 13894

Matrix: Surface Soil

D No: SGS

Date Collected: 10/26/10 13:10

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
30402-14-3	Tetrachlorodibenzofuran (Total)	0.95	J, Q-3	ng/kg dry	0.96	11/08/10	11/22/10	CL DLM02.0



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D.A.R.T. Id: 11-0019

Project: 11-0019, Tronox Inc - Reported by Jeffrey Hendel

Dioxin

Project: 11-0019, Tronox Inc

Contract Lab Case: 40729

Sample ID: 13900ASF

Lab ID: C104703-48

MD No:

Station ID: 13900

Matrix: Surface Soil

D No: SGS

Date Collected: 10/26/10 12:51

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	17		%		11/04/10	11/30/10	CL DLM02.0
35822-46-9	1,2,3,4,6,7,8-Heptachlorodibenzodioxin	440		ng/kg dry	4.8	11/04/10	11/30/10	CL DLM02.0
67562-39-4	1,2,3,4,6,7,8-Heptachlorodibenzofuran	120	U, D-4	ng/kg dry	4.8	11/04/10	11/30/10	CL DLM02.0
55673-89-7	1,2,3,4,7,8,9-Heptachlorodibenzofuran	9.1		ng/kg dry	4.8	11/04/10	11/30/10	CL DLM02.0
39227-28-6	1,2,3,4,7,8-Hexachlorodibenzodioxin	4.1	U, CLP18	ng/kg dry	4.8	11/04/10	11/30/10	CL DLM02.0
70648-26-9	1,2,3,4,7,8-Hexachlorodibenzofuran	14		ng/kg dry	4.8	11/04/10	11/30/10	CL DLM02.0
57653-85-7	1,2,3,6,7,8-Hexachlorodibenzodioxin	13		ng/kg dry	4.8	11/04/10	11/30/10	CL DLM02.0
57117-44-9	1,2,3,6,7,8-Hexachlorodibenzofuran	6.4		ng/kg dry	4.8	11/04/10	11/30/10	CL DLM02.0
19408-74-3	1,2,3,7,8,9-Hexachlorodibenzodioxin	6.6		ng/kg dry	4.8	11/04/10	11/30/10	CL DLM02.0
72918-21-9	1,2,3,7,8,9-Hexachlorodibenzofuran	2.9	U, CLP18	ng/kg dry	4.8	11/04/10	11/30/10	CL DLM02.0
40321-76-4	1,2,3,7,8-Pentachlorodibenzodioxin	2.3	J, CLP01	ng/kg dry	4.8	11/04/10	11/30/10	CL DLM02.0
57117-41-6	1,2,3,7,8-Pentachlorodibenzofuran	1.1	J, CLP01	ng/kg dry	4.8	11/04/10	11/30/10	CL DLM02.0
60851-34-5	2,3,4,6,7,8-Hexachlorodibenzofuran	11		ng/kg dry	4.8	11/04/10	11/30/10	CL DLM02.0
57117-31-4	2,3,4,7,8-Pentachlorodibenzofuran	12		ng/kg dry	4.8	11/04/10	11/30/10	CL DLM02.0
1746-01-6	2,3,7,8-Tetrachlorodibenzodioxin	0.42	U, R, CLP27	ng/kg dry	0.97	11/04/10	11/30/10	CL DLM02.0
51207-31-9	2,3,7,8-Tetrachlorodibenzofuran	0.94	J, CLP01, CLP10	ng/kg dry	0.97	11/04/10	11/30/10	CL DLM02.0
37871-00-4	Heptachlorodibenzodioxin (Total)	1100	J, Q-3	ng/kg dry	4.8	11/04/10	11/30/10	CL DLM02.0
38998-75-3	Heptachlorodibenzofuran (Total)	350	J, Q-3	ng/kg dry	4.8	11/04/10	11/30/10	CL DLM02.0
34465-46-8	Hexachlorodibenzodioxin (Total)	100	J, Q-3	ng/kg dry	4.8	11/04/10	11/30/10	CL DLM02.0
55684-94-1	Hexachlorodibenzofuran (Total)	160	J, Q-3	ng/kg dry	4.8	11/04/10	11/30/10	CL DLM02.0
3268-87-9	Octachlorodibenzodioxin	5200	J, CLP02	ng/kg dry	9.7	11/04/10	11/30/10	CL DLM02.0
39001-02-0	Octachlorodibenzofuran	160		ng/kg dry	9.7	11/04/10	11/30/10	CL DLM02.0
36088-22-9	Pentachlorodibenzodioxin (Total)	25	J, Q-3	ng/kg dry	4.8	11/04/10	11/30/10	CL DLM02.0
30402-15-4	Pentachlorodibenzofuran (Total)	150	J, Q-3	ng/kg dry	4.8	11/04/10	11/30/10	CL DLM02.0
R4-0428	TEQ (Avian Toxic. Equiv. Value, WHO TEQ-98)	22	J, D-5	ng/kg dry	22	11/04/10	11/30/10	CL DLM02.0
R4-0429	TEQ (Fish Toxic. Equiv. Value, WHO TEQ-98)	17	J, D-5	ng/kg dry	17	11/04/10	11/30/10	CL DLM02.0
R4-0430	TEQ (Mammalian Toxic. Equiv. Value, WHO TEQ-2005)	20	J, D-5	ng/kg dry	20	11/04/10	11/30/10	CL DLM02.0
41903-57-5	Tetrachlorodibenzodioxin (Total)	0.42	U, J, Q-3	ng/kg dry	0.97	11/04/10	11/30/10	CL DLM02.0



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D.A.R.T. Id: 11-0019

Project: 11-0019, Tronox Inc - Reported by Jeffrey Hendel

Dioxin

Project: 11-0019, Tronox Inc

Contract Lab Case: 40729

Sample ID: 13900ASF

Lab ID: C104703-48

MD No:

Station ID: 13900

Matrix: Surface Soil

D No: SGS

Date Collected: 10/26/10 12:51

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
30402-14-3	Tetrachlorodibenzofuran (Total)	29	J, Q-3	ng/kg dry	0.97	11/04/10	11/30/10	CL DLM02.0



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D.A.R.T. Id: 11-0019

Project: 11-0019, Tronox Inc - Reported by Jeffrey Hendel

Dioxin

Project: 11-0019, Tronox Inc

Contract Lab Case: 40729

Sample ID: 12624ASB12

Lab ID: C104703-49

MD No:

Station ID: TN09

Matrix: Subsurface Soil

D No: SGS

Date Collected: 10/25/10 16:25

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	9.2		%		11/04/10	11/15/10	CL DLM02.0
35822-46-9	1,2,3,4,6,7,8-Heptachlorodibenzodioxin	3600	J, CLP02	ng/kg dry	4.3	11/04/10	11/15/10	CL DLM02.0
67562-39-4	1,2,3,4,6,7,8-Heptachlorodibenzofuran	700		ng/kg dry	4.3	11/04/10	11/15/10	CL DLM02.0
55673-89-7	1,2,3,4,7,8,9-Heptachlorodibenzofuran	55		ng/kg dry	4.3	11/04/10	11/15/10	CL DLM02.0
39227-28-6	1,2,3,4,7,8-Hexachlorodibenzodioxin	6.5		ng/kg dry	4.3	11/04/10	11/15/10	CL DLM02.0
70648-26-9	1,2,3,4,7,8-Hexachlorodibenzofuran	92		ng/kg dry	4.3	11/04/10	11/15/10	CL DLM02.0
57653-85-7	1,2,3,6,7,8-Hexachlorodibenzodioxin	76		ng/kg dry	4.3	11/04/10	11/15/10	CL DLM02.0
57117-44-9	1,2,3,6,7,8-Hexachlorodibenzofuran	31		ng/kg dry	4.3	11/04/10	11/15/10	CL DLM02.0
19408-74-3	1,2,3,7,8,9-Hexachlorodibenzodioxin	15		ng/kg dry	4.3	11/04/10	11/15/10	CL DLM02.0
72918-21-9	1,2,3,7,8,9-Hexachlorodibenzofuran	29		ng/kg dry	4.3	11/04/10	11/15/10	CL DLM02.0
40321-76-4	1,2,3,7,8-Pentachlorodibenzodioxin	1.6	U, CLP18	ng/kg dry	4.3	11/04/10	11/15/10	CL DLM02.0
57117-41-6	1,2,3,7,8-Pentachlorodibenzofuran	6.3		ng/kg dry	4.3	11/04/10	11/15/10	CL DLM02.0
60851-34-5	2,3,4,6,7,8-Hexachlorodibenzofuran	35		ng/kg dry	4.3	11/04/10	11/15/10	CL DLM02.0
57117-31-4	2,3,4,7,8-Pentachlorodibenzofuran	24		ng/kg dry	4.3	11/04/10	11/15/10	CL DLM02.0
1746-01-6	2,3,7,8-Tetrachlorodibenzodioxin	0.24	U, R, CLP27	ng/kg dry	0.86	11/04/10	11/15/10	CL DLM02.0
51207-31-9	2,3,7,8-Tetrachlorodibenzofuran	0.97	U, CLP18	ng/kg dry	0.86	11/04/10	11/15/10	CL DLM02.0
37871-00-4	Heptachlorodibenzodioxin (Total)	13000	J, Q-3	ng/kg dry	4.3	11/04/10	11/15/10	CL DLM02.0
38998-75-3	Heptachlorodibenzofuran (Total)	4600	J, Q-3	ng/kg dry	4.3	11/04/10	11/15/10	CL DLM02.0
34465-46-8	Hexachlorodibenzodioxin (Total)	440	J, Q-3	ng/kg dry	4.3	11/04/10	11/15/10	CL DLM02.0
55684-94-1	Hexachlorodibenzofuran (Total)	1100	J, Q-3	ng/kg dry	4.3	11/04/10	11/15/10	CL DLM02.0
3268-87-9	Octachlorodibenzodioxin	50000	J, CLP02	ng/kg dry	8.6	11/04/10	11/15/10	CL DLM02.0
39001-02-0	Octachlorodibenzofuran	2200		ng/kg dry	8.6	11/04/10	11/15/10	CL DLM02.0
36088-22-9	Pentachlorodibenzodioxin (Total)	29	J, Q-3	ng/kg dry	4.3	11/04/10	11/15/10	CL DLM02.0
30402-15-4	Pentachlorodibenzofuran (Total)	170	J, Q-3	ng/kg dry	4.3	11/04/10	11/15/10	CL DLM02.0
R4-0428	TEQ (Avian Toxic. Equiv. Value, WHO TEQ-98)	65	J, D-5	ng/kg dry	65	11/04/10	11/15/10	CL DLM02.0
R4-0429	TEQ (Fish Toxic. Equiv. Value, WHO TEQ-98)	53	J, D-5	ng/kg dry	53	11/04/10	11/15/10	CL DLM02.0
R4-0430	TEQ (Mammalian Toxic. Equiv. Value, WHO TEQ-2005)	97	J, D-5	ng/kg dry	97	11/04/10	11/15/10	CL DLM02.0
41903-57-5	Tetrachlorodibenzodioxin (Total)	1.7	J, Q-3	ng/kg dry	0.86	11/04/10	11/15/10	CL DLM02.0



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Dioxin

Project: 11-0019, Tronox Inc

Contract Lab Case: 40729

Sample ID: 12624ASB12

Lab ID: C104703-49

MD No:

Station ID: TN09

Matrix: Subsurface Soil

D No: SGS

Date Collected: 10/25/10 16:25

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
30402-14-3	Tetrachlorodibenzofuran (Total)	13	J, Q-3	ng/kg dry	0.86	11/04/10	11/15/10	CL DLM02.0

END OF REPORT