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U.S. DEPARTMENT OF THE NAVY
REMEDIAL ACTION CONTRACT (RAC)
CONTRACT NO. N62472-99-D-0032
CONTRACT TASK ORDER 0003

FINAL REMEDIAL ACTION REPORT FOR PCB CHARACTERIZATION AND REMOVAL AT BUILDING 335 (DECA COMMISSARY) TRANSFORMER PAD

TOPSHAM ANNEX OF NAVAL AIR STATION BRUNSWICK, TOPSHAM, MAINE

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1.0 INTRODUCTION

Foster Wheeler Environmental Corporation (FWENC) was contracted by the Department of the Navy, Engineering Field Activity Northeast (EFANE) to perform environmental remediation activities at the DECA Commissary (the Commissary) located at the Topsham Annex in Topsham, Maine. The environmental remediation activity involved the relocation of an electric transformer and excavation of PCB contaminated soil to a concentration of less than 1 ppm PCBs. This Remedial Action Report (RAR) has been prepared to satisfy requirements of Contract Task Order (CTO) 003, Remedial Action Contract (RAC) No. N62472-99-D-0032.

1.1 Overview of Report

This RAR provides the details of activities conducted to remediate PCB contaminated soil and concrete. FWENC was tasked to perform the following: mobilization and site preparation, delineation of PCB contaminated soil, removal of contaminated soil and concrete, confirmation sample collection, waste characterization, off-site disposal, and site restoration. The site description and site background are provided in Section 2.0, site preparation and remedial activities are discussed in Section 3.0.

2.0 SITE DESCRIPTION

Naval Air Station, Brunswick (NASB) in Brunswick, Maine, consists of commercial air base operations including barracks, housing and four (4) remote family housing sites: Harpswell Housing Facility, McKeen Housing Facility, Brunswick Gardens, and the Topsham Annex (See Figure 1). The location of the removal area is presented on Figure 2.

Topsham Annex is located approximately four (4) miles northwest of NASB in the Town of Topsham. The Annex is located in the south-central section of the Town of Topsham off Main Street (Route 201), midway between Route 196 and Interstate Route 95.

2.1 Site Information

Topsham Annex consists of gently to moderately sloping land with elevation ranging between 240 and 100-feet above mean sea level. Most of the site slopes to the west and northwest, though the land near former Buildings 373 and 374 slope toward the northeast and east respectively.

The Commissary (Building 335) (35 Dominion Ave, Topsham, ME) is located between Dominion Avenue and Republic Avenue. The transformer is located on the east side of the commissary adjacent to Republic Avenue, and provides power to the building. The topography of the site area is characterized as flat and exhibits little relief. The surface grade consists of a level field of grass and paved access roads. The transformer is located on relatively flat ground with a short steep embankment to a driveway leading to the back of the commissary. A storm drain is located down gradient of the transformer in this driveway.

2.2 Previous Investigations

As part of a Phase II Environmental Site Assessment conducted in November 2000, topsoil adjacent to a concrete pad where a PCB transformer was known to have been located was sampled. Four (4) composite grab samples of topsoil were taken immediately adjacent to all four (4) sides of the concrete transformer pad. Analytical results showed PCB levels of 5.3, 5.8, 12 and 90 mg/kg. A small-scale removal action was

35 Dominion Ave
Topsham, ME
04086-1127, US

Figure 1
Site Location Map

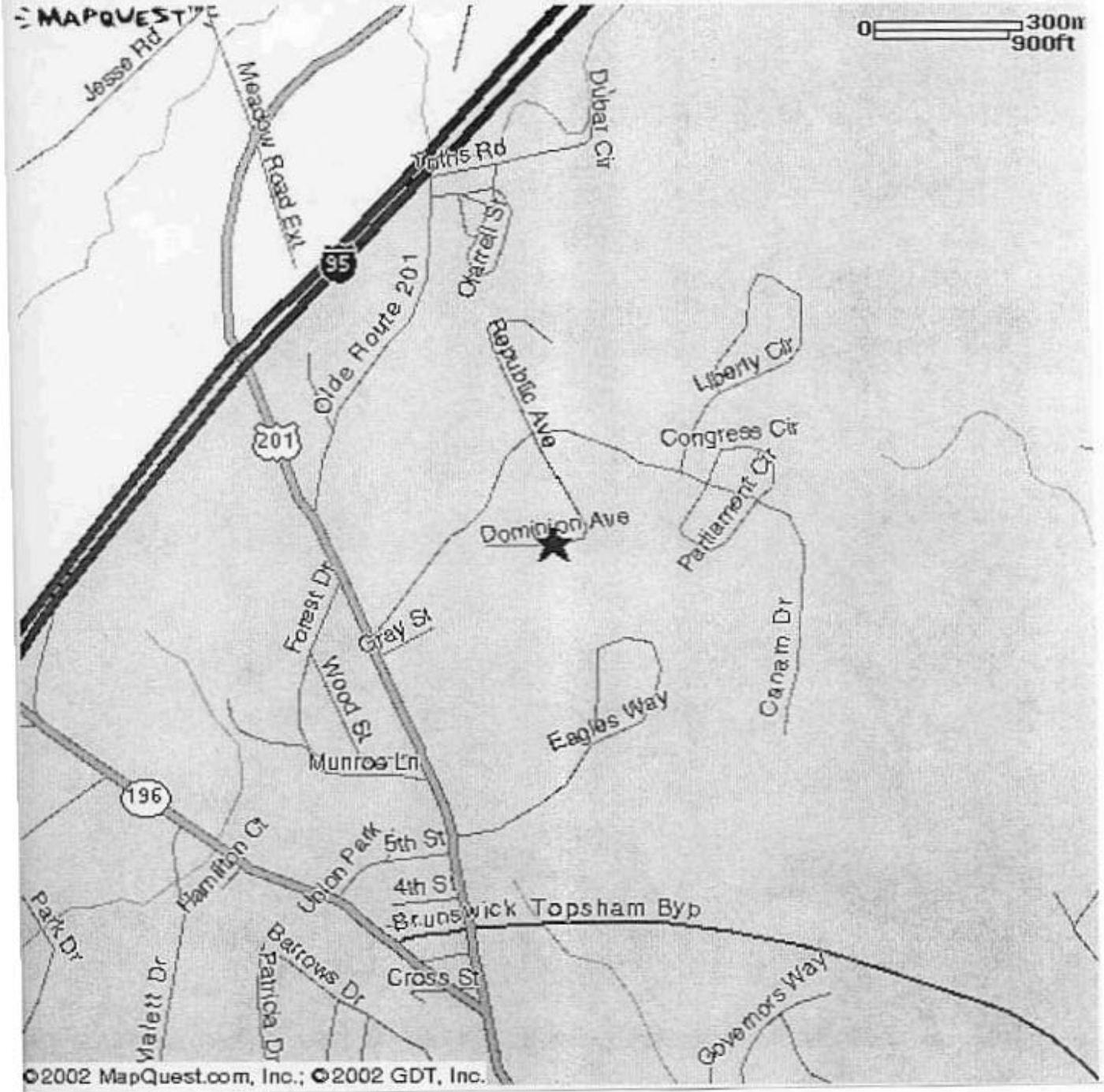
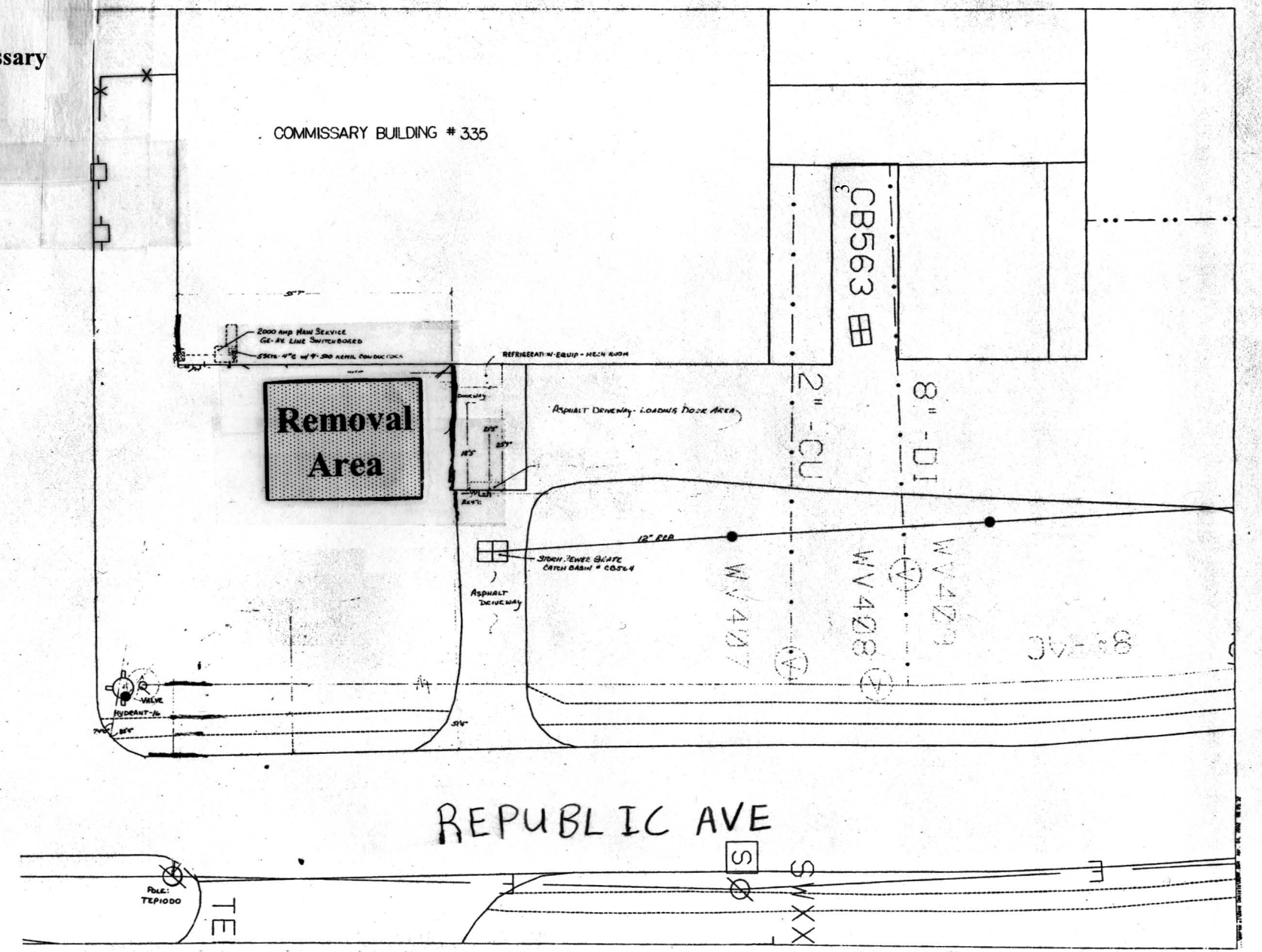


Figure 2
Removal Area
Building 335 – Commissary
Topsham, ME

NOT TO SCALE



performed by NASB personnel at the Building 335 transformer pad. The Brunswick personnel removed topsoil immediately adjacent to the pad to a depth of 4 to 6 inches, and away from the side of the concrete about 6 to 8 inches. Confirmation samples were then taken of the excavated areas. Analytical results showed PCB levels of 2.3, 9.8, 41 and 680 mg/kg. The Navy then informed the state of Maine and USEPA Region I of the situation.

The state of Maine has since sent a Warning Notice to NAS Brunswick to perform several tasks. The first was to install a chain link fence around the site to limit access to the site. FWENC performed this work in February 2002. The second was the development of a Remedial Action Plan (RAP) to characterize and remove the contaminated soil. The Final RAP was submitted and approved on August 8, 2002.

3.0 SITE PREPARATION AND REMEDIAL ACTIVITIES

FWENC performed the following tasks as part of this remedial effort:

- Mobilization for electrical relocation (June 17, 2002);
- Relocate power to the commissary (June 24, 2002);
- Mobilization for PCB delineation and removal (August 19, 2002);
- Delineation of PCB contamination (August 19-22, 2002);
- Disposal of PCB contaminated concrete (August 22, 2002);
- Excavation and disposal of PCB contaminated soil (August 22-30, 2002);
- Confirmation sampling (August 23-30, 2002); and
- Site restoration (September 5, 2002).

3.1 Mobilization for Electrical Relocation

FWENC on-site personnel included a Site Superintendent, Site Health and Safety Officer (SHSO), Electrical Subcontractor, and craft. Mobilization for electrical relocation to the commissary commenced on June 17, 2002. Prior to mobilization FWENC contacted "DIGSAFE" to obtain utility clearance and markout services.

3.2 Electrical Relocation

The existing overhead electric service, electrical pole, and transformer providing power to the commissary were permanently relocated to facilitate the PCB removal. An alternate location for the pole and transformer were determined during a site walk conducted on May 30, 2002. Six composite samples were collected from the proposed new transformer location and conduit runs. The samples were composited from 0-feet to 1-foot below ground surface and 1-foot to 2-feet below ground surface and analyzed for PCBs by method 8082 (Appendix A).

Upon receipt of the transformer relocation PCBs samples, the results were checked to ensure PCBs were less than 1 mg/kg (Table 1). The results were below 1 mg/kg, and FWENC personnel and an electrical contractor, ES Boulos Company of Portland, ME, were mobilized to install the new concrete transformer pad and associated utility conduits. Verizon, the owner of the utility pole, was contacted to install a new pole for the power relocation. Utility conduits, primary feeder cables, and secondary feeder cables were installed from the pad to the new pole location, and from the pad to the commissary building. Appendix B contains the as built drawing of the relocated utilities.

The commissary is closed for business on Mondays, which enabled the transfer of the commissary service from the old former utility service to the new service system. The service transfer was completed

CTO 3 DECA Commissary
Transformer Relocation Sample Results
Table 1

Location	Results (ug/kg)	Notes
PAD-01	235	proposed new transformer location 0'-1'
PAD-02	ND	proposed new transformer location 1'-2'
CA-01	160	New conduit location 0'-1'
CA-02	20	New conduit location 1'-2'
CB-01	24	New conduit location 0'-1'
CB-02	ND	New conduit location 1'-2'

on June 24, 2002. During the transfer operation the commissary was provided with temporary power from a portable 500 KW 3-phase diesel generator. After the service transfer was completed, the old utility pole, primary service lines and transformer were removed by Central Maine Power. Central Maine Power retained possession of the transformer. After the transformer was removed, FWENC mobilized to conduct the PCB delineation and removal activities.

3.3 Mobilization for PCB Delineation and Removal

FWENC on-site personnel included a Site Superintendent, Site Health and Safety Officer (SHSO), field chemist, and craft. Mobilization for the PCB delineation and removal occurred on August 19, 2002. Mobilization was coordinated with MEDEP so a representative could be on-site to observe the PCB delineation, sampling, and soil removal as per Toxic Substance Control Act (TASCA) regulations, MEDEP protocol, and Work Plan provisions. During mobilization a grab sample was collected from the storm drain adjacent to the removal area, and the sample, CB81902-1, was sent to the off-site laboratory for PCB analysis. Laboratory analyses indicated N.D. (Non-Detect) conditions. Filter fabric was placed over the manhole to prevent sediment from entering during the removal action. See Section 3-8 for additional information.

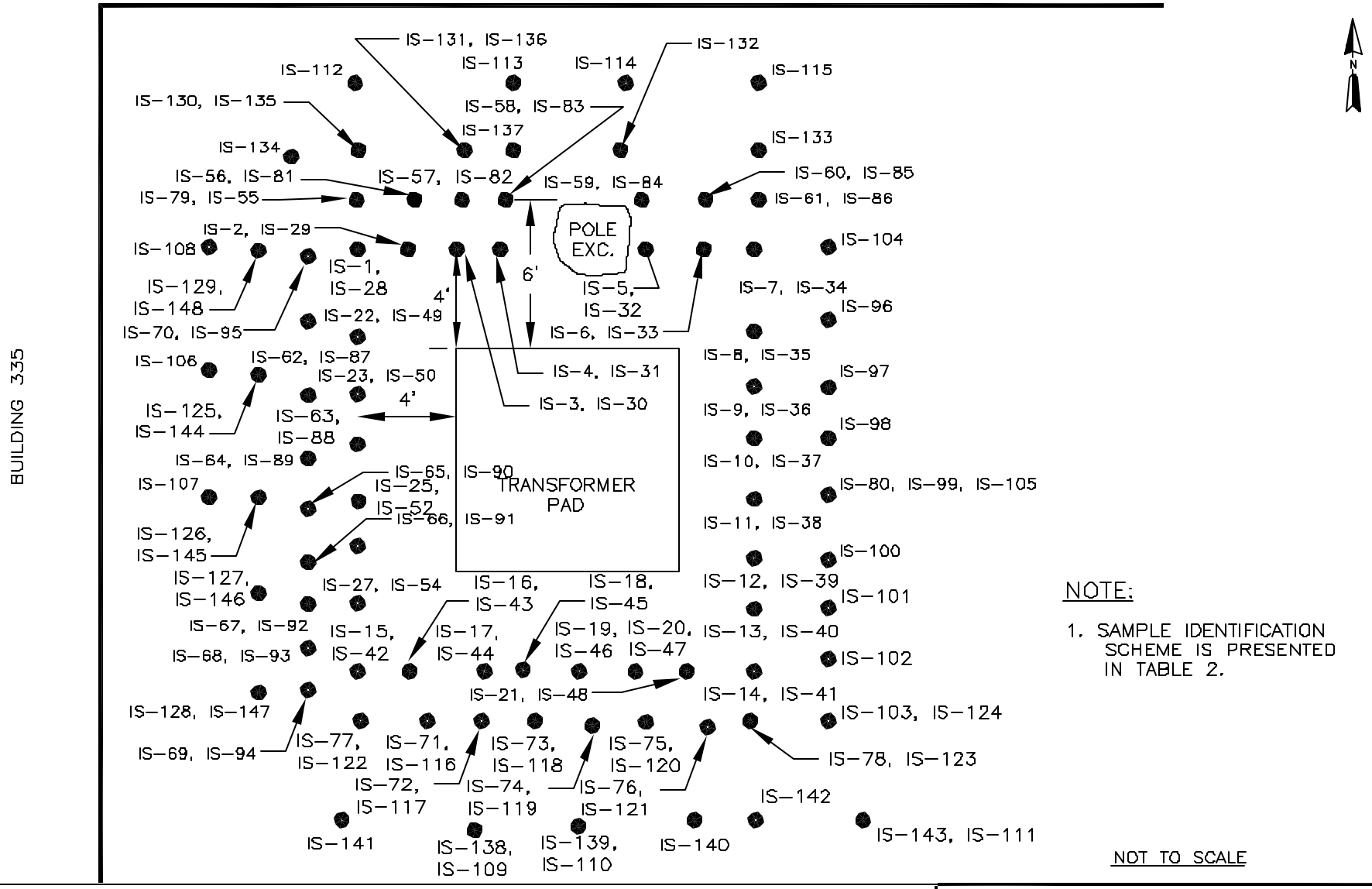
3.4 Delineation of PCB Contamination

The horizontal and vertical extent of PCB contamination in the soil was determined using immunoassay (IA) field analysis. This information was used to determine the approximate vertical and lateral extent of the contaminated soil. Initially the IA analysis was conducted in the field under a tent, however the test kit results were inaccurate. Strategic Diagnostics Inc (SDI) of Newark, Delaware, the supplier of the kits, was consulted to discuss the test kit performance. SDI indicated that the variable weather conditions (temperature and humidity) affected the accuracy of the kits. FWENC coordinated with NASB personnel to set up a temporary field lab to process the immunoassay samples. The samples were screened on-site using immunoassay testing procedures in accordance with USEPA Method 4020 modified. A decontaminated hand auger was used to collect soil samples around the perimeter of the concrete pad. The initial sample grid spacing was 2-feet, the sample locations are presented on Figure 3.

Discrete soil samples were taken from the 0-feet to 0.25-feet depth to represent the 0-foot to 1-foot interval and from 1-foot to 2-feet. The soil was collected from the 0-foot to 0.25-foot interval and placed in a stainless steel bowl. The following procedure was used to collect the discrete soil samples for IA analysis

- At each location the vegetation and upper inch of root mass were removed.
- Using the decontaminated hand auger, the soil was collected from the sample location.
- The soil was placed in stainless steel bowl.
- The organic matter (grass, roots etc) was removed from the bowl.
- The remaining soil was mixed to a uniform consistency by performing the following procedure:
  - The same scoop the sample was taken with was used to thoroughly mix the soil in the bowl.
  - The soil was scraped from the sides and bottom of the bowl, and rolled into the middle of the bowl to thoroughly mix the soil.
  - The sample was then quartered.
  - Each quarter was individually mixed thoroughly by scraping the soil from the sides of the bowl and rolling the soil into itself.
  - When all of the quarters had been individually mixed, the quarters were then recombined, by scraping and rolling the soil back into the center of the bowl.

BUILDING 335 COMPRESSOR ROOM



NOTE:

1. SAMPLE IDENTIFICATION SCHEME IS PRESENTED IN TABLE 2.

NOT TO SCALE

LEGEND:

● IS-01 IMMUNOASSAY SAMPLE LOCATION

NAVYRAC\BRUNSWICKNAS\TOPSHAM\TOPSHAM_BLDG335_INITIALSAMP.dwg

PCB SOIL CLEANUP – COMMISSARY ANNEX
TOPSHAM, MAINE

FIGURE 3
IMMUNOASSAY SAMPLE LOCATIONS

FOSTER WHEELER ENVIRONMENTAL CORPORATION

    - The sample was then placed in a properly labeled jar.
- The jar was placed in a cooler packed with ice.
- The jar of sample was then tested with the IA screening kit.
- The result was recorded in the field notebook.

This procedure was repeated for the 1-foot to 2-foot interval using decontaminated sampling equipment. The sampling equipment was decontaminated after each individual sampling event. The superintendent, who gave the samples to the field chemist for analysis, tracked the locations and depths of samples.

The data indicated that several samples contained PCBs above the target cleanup level of 1.0 mg/kg, and additional samples were collected at one-foot intervals to determine the depth of contamination. The perimeter grid expanded at 2-foot spacing until immunoassay samples were less than 1 mg/kg. It was established that the AOC measured 24-feet by 25-feet with irregular depth. The grid expanded to the south (10-feet), west (10-feet), north (8-feet), and east (5-feet). Sample results are presented in Table 2 and Appendix C.

A total of 148 IA samples were collected and field analyzed. IA samples were not collected from the area under the transformer pad because the pad was still in place. The soil under the concrete pad was assumed contaminated to a depth of 2-feet.

3.5 Concrete Removal and Disposal

On August 21, 2002 FWENC mobilized a John Deere 410 backhoe with a hydraulic hammer to break a 9-foot by 9-foot by 10-inch thick concrete transformer pad into manageable pieces. A rubber tired excavator (Daewoo 200) was mobilized to the site, and the broken concrete and contaminated soil were loaded into a dump trailer and tractor owned by Ameritech of Portsmouth, New Hampshire. Ameritech was subcontracted by Global Transportation Services, and transported the TSCA waste to CWM Chemical Services, Model City landfill, New York for disposal (See Appendix D – Photographs). Poly sheeting was placed on the ground under the swing radius of the equipment to prevent errant soil or concrete from contacting clean soil. NASB environmental department personnel verified the shipping paperwork, and signed the hazardous waste manifest.

3.6 Excavation of PCB Contaminated Soil

FWENC used a wheeled excavator to remove the PCB impacted soil as defined by the delineation effort as discussed in Section 3.4. After the tractor-trailer was loaded and left the site, FWENC obtained three (3) additional roll-off containers provided by Ameritech, Portsmouth, NH for the additional contaminated soil present at the site.

The three (3) lined roll-off containers were placed in close proximity to the excavation, and the PCB material was loaded into the roll-off containers. Poly sheeting was placed on the ground under the swing radius of the equipment to prevent errant soil from contacting clean soil. Composite confirmation samples were collected from the sidewalls and base footprint of the excavation. Table 3 lists the confirmation sample results, and section 3.7 discusses the sampling effort. The excavation continued based on the ongoing confirmation sample results. See Appendix E Confirmation Sample Results. Figures 4 through 6 depict the sampling locations for the four (4) different rounds of samples collected.

CTO 3 DECA Commissary
Immunoassay Sample Results
Table 2

8/19/2002		8/19/2002		8/21/2002		8/21/2002		8/22/2002		8/22/2002		8/22/2002	
Batch 1	mg/kg	Batch 2	mg/kg	Batch 1	mg/kg	Batch 2	mg/kg	Batch 1	mg/kg	Batch 2	mg/kg	Batch 3	mg/kg
S-1-01	3.2	S-1-02	2.2	S-1-04	7.2	E-1-04	<0.5	N-1-06	<0.5	S-2-08	1.6	W-2-10	3.8
S-2-01	>10	S-2-02	0.42	S-2-04	4.5	E-2-04	1.1	N-3-06	0.22	S-4-08	1.2	W-4-10	>10
S-3-01	8.5	S-3-02	0.72	S-3-04	>10	E-3-04	<0.5	N-5-06	6.9	S-6-08	0.36	W-9-10	6.4
S-4-01	>10	S-4-02	<0.5	S-4-04	5.9	E-4-04	<0.5	N-7-06	6.1	S-7-08	0.48	S-2-09	<0.05
S-5-01	>10	S-5-02	<0.5	S-5-04	3.7	E-5-04	<0.5	N-8-06	<0.5	S-8-08	<0.5	S-4-09	<0.05
S-6-01	>10	S-6-02	<0.5	S-6-04	2.6	E-6-04	<0.5	N-1-07	1.3	S-9-08	>10	S-9-09	<0.05
S-7-01	>10	S-7-02	<0.5	S-7-04	6.3	E-7-04	<0.5	N-3-07	0.56	W-2-08	1.5	N-1-10	<0.5
W-1-01	>10	W-1-02	0.56	S-8-04	>10	E-8-04	1.9	N-4-07	6.4	W-4-08	1.5	N-4-10	3.5
W-2-01	>10	W-2-02	1.5	N-1-04	7.4	E-9-04	<0.5	S-1-05	<0.5	W-6-08	0.46	N-5-10	3.4
W-3-01	>10	W-3-02	0.4	E-4-1-2	9.3	E-4-1-2*	<0.5	S-2-05	<0.5	W-8-08	<0.5	N-7-10	1.1
W-4-01	>10	W-4-02	0.56	N-1-03	1.8	N-2-04	>10	S-3-05	0.34	W-9-08	2.2		
W-5-01	>10	W-5-02	4.9	N-2-03	<0.5	N-3-04	>10	S-4-05	<0.5				
W-6-01	>10	W-6-02	0.32	N-3-03	2	N-4-04	>10	S-5-05	<0.5				
N-1-01	>10	N-1-02	1.9	N-4-03	7.3	N-5-04	>10	S-6-05	<0.5				
N-2-01	>10	N-2-02	5	N-5-03	<0.5	N-6-04	>10	S-7-05	<0.5				
N-3-01	>10	N-3-02	4.7	N-6-03	0.3	N-7-04	>10	S-8-05	<0.5				
N-4-01	>10	N-4-02	2.9	N-7-03	0.36	W-1-04	7.9	S-9-05	<0.5				
N-5-01	>10	N-5-02	3.5	W-1-03	0.56	W-2-04	>10	W-2-06	<0.5				
N-6-01	>10	N-6-02	5.6	W-2-03	2.2	W-3-04	>10	W-4-06	<0.5				
N-7-01	4.7	N-7-02	1.3	W-3-03	0.46	W-4-04	>10	W-6-06	<0.5				
E-1-01	7.3	E-1-02	0.36	W-4-03	1	W-5-04	>10	W-8-06	<0.5				
E-2-01	5.9	E-2-02	<0.5	W-5-03	0.94	W-6-04	>10	W-9-06	0.24				
E-3-01	>10	E-3-02	0.46	W-6-03	0.26	W-7-04	9.9						
E-4-01	4.4	E-4-02	9.6	W-7-03	<0.5	W-8-04	2.4						
E-5-01	5.9	E-5-02	<0.5	W-8-03	<0.5	W-9-04	4.5						
E-6-01	4.1	E-6-02	<0.5	W-9-3	<0.5								
E-7-01	1.9	E-7-02	<0.5										

See Figure 3 for Sample Locations

Notes:
Sample ID N-6-04
N = geographic location
6 = axis location
04 = group

Geographic locations
N = North
S = South
E = East
W = West

Groups
01 = 0"-3" depth
02 = 1'-2' depth
03 = 1'-2' depth
04 = 0"-3" depth
05 = 1'-2' depth
06 = 1'-2' depth
07 = 2'-3' depth
08 = 0"-3" depth
09 = 1'-2' depth

CTO 3 DECA Commissary
PCB Confirmation Sample Results
Table 3

Round 1

Sample Location	Sample Identification	Result (ug/kg)	Qualifier
CS-1	CS-9-BS	**1,060**	
CS-2	CS-6-BS	**1,040**	
CS-3	CS-8-BS	311	
CS-4	CS-5-1-BS	**7,630**	
CS-5	CS-5-2-BS	**256,000**	
CS-6	CS-3-BS	**3,740**	
CS-7	CS-2-BS	**2,230**	
CS-8	CS-1-BS	29	
CS-9	CS-4-BS	189	
CS-10	CS-7-BS	109	
CS-11	CS-9-ESW	**1,310**	
CS-12	CS-9-SSW	289	
CS-13	CS-8-SSW	592	
CS-14	CS-7-SSW	**1,040**	
CS-15	CS-7-WSW	340	
CS-16	CS-4-WSW	**4,790**	
CS-17	CS-1-WSW	708	
CS-18	CS-1-NSW	389	
CS-19	CS-2-NSW	**5,880**	
CS-20	CS-3-NSW	**180,000**	
CS-21	CS-3-ESW	435	
CS-22	CS-6-ESW	**2,190**	
CS-23	CS-7-W-SW-2	ND	
CS-24	CS-4-W-SW-2	44	
CS-25	CS-1-W-SW-2	519	
CS-26	CS-1-N-SW-2	40	
CS-27	CS-2-N-SW-2	317	
CS-28	CS-3-N-SW-2	610	

Round 2

Sample Location	Sample Identification	Result (ug/kg)	Qualifier
CS-29	CS-5-3-BS	31	
CS-30	CS-5-4-BS	49	
CS-31	CS-5-5-BS	U	
CS-32	CS-3-3-BS	206	
CS-33	CS-2-3-BS	22	
CS-34	CS-2-4-BS	**3,090**	
CS-35	CS-2-5-NSW-1	**2,200**	
CS-36	CS-2-5-NSW-2	204	
CS-37	CS-3-4-NSW-1	**51,600**	
CS-38	CS-3-4-NSW-2	175	
CS-39	CS-3-5-ESW-1	535	
CS-40	CS-3-5-ESW-2	139	
CS-41	CS-5-6-SSW-3	ND	

Round 3

CS-42	CS-4-7-WBS	395	
CS-43	CS-4-7-WSW-1	588	
CS-44	CS-4-7-NSW-1	539	
CS-45	CS-4-7-SSW-1	337	
CS-46	CS-7-7-SBS	29	
CS-47	CS-7-7-WSW-1	103	
CS-48	CS-7-7-SSW-1	95	
CS-49	CS-7-7-ESW-1	272	
CS-50	CS-9-7-BS	272	
CS-51	CS-9-7-ESW-1	69	
CS-52	CS-6-7-BS	17	J
CS-53	CS-2-7-BS-1	13	J
CS-54	CS-2-7-BS-2	693	
CS-55	CS-3-7-BS-1	**9,580**	
CS-56	CS-2-7-WSW-2	252	
CS-57	CS-2-7-WSW-1	185	
CS-58	CS-6-7-ESW-1	193	
CS-59	CS-6-7-ESW-2	191	
CS-60	CS-9-7-ESW-2	18	

Round 4

CS-61	CS-3-8-BS-2	ND	
CS-62	CS-3-8-ESW-1	552	

Approximately 73 tons of soil and 2 tons of concrete were excavated and shipped off-site for disposal during the project. Waste manifests are presented in Appendix F.

3.7 Confirmation Sampling

Confirmation samples were collected with a decontaminated stainless steel hand auger. Samples were analyzed per USEPA method 8082 for rapid (24-hr) turn around by Analytics Environmental Laboratory, LLC, Portsmouth, New Hampshire. String lines were set up to form an 8-foot by 8-foot grid over the removal area (see Appendix D) to identify the sample locations. The original string line was placed over a 25-feet by 24-foot excavated area to form 9 quadrants of approximately 8-foot by 8-foot. This area was initially determined as a result of reviewing the field IA samples. Upon review of the confirmatory samples the excavation increased in an irregular size and depth to attain a size of approximately 720 square feet

Each of the bottom samples was collected per the following procedure:

- Each individual bottom sample represented one quadrant of the removal area.
- Four (4) aliquots of soil were collected from each quadrant, and composited to make the laboratory sample.
- After homogenization, an aliquot of soil was placed in a glass jar, labeled, and held on ice prior to pickup by the analytical laboratory.

Sidewall samples were collected from 0-feet to 0.25-feet, 1-foot to 2-foot, and 2-foot to 3-foot depending on the sample results from the previous round.

Composite samples were collected by the following procedure:

- Sample jars were labeled with the sample location number to assure that sample jar numbers correspond with the appropriate sampling location. Confirmation samples were identified by the sidewall location (North, South, East and West) and depth interval.
- The area was visually inspected for staining, and the results were recorded in the field notebook. No evidence of staining existed in the excavation area.
- At surface soil locations (0-feet to 0.25-feet), the vegetation and upper inch of root mass were removed.
- A stainless steel sampling scoop was used to collect samples of soil from the composite locations.
- The soil was placed in the stainless steel bowl, and the organic matter (grass, roots, etc.) was removed from the bowl.
- The remaining soil was mixed to a uniform consistency by performing the following procedure:
    - The same scoop was used to mix the soil in the bowl.
    - The soil was scraped from the sides and bottom of the bowl and rolled into the middle of the bowl and thoroughly mixed.
    - The sample was then quartered.
    - Each quarter was individually mixed thoroughly by scraping the soil from the sides of the bowl and rolled into itself.
    - When all of the quarters were individually mixed, the quarters were recombined, by scraping and rolling the soil back into the center of the bowl.
    - The entire sample was then remixed following the above procedure stopping prior to quartering.
    - The sample was then placed in a properly labeled jar.
- The jar was placed in a cooler packed with ice.

- The chain of custody form (COC) was filled out, and the lab was contacted for sample pickup
- The sample locations were diagramed in the field notebook. (Appendix G)

The samples were picked up by courier and taken to Analytics Environmental Laboratory, LLC, Portsmouth, New Hampshire. Analytics is a Navy approved laboratory. Samples were analyzed for 24-turn around time. The Round 1 sample locations are diagramed on Figure 4. Round 1 samples (#1 thru 28), extracted August 23, 2002 indicated that PCB contamination (>1 mg/kg) still remained in several locations (center of excavation, bottom of excavation, and north, east, and south sidewalls – Table 3), and additional soil was excavated and removed. Figure 7 diagrams the excavation depths.

The additional soil was placed in roll-off containers while awaiting disposal. Round 2 confirmation samples (#29 thru 41) were collected August 27, 2002 and sent to Analytics Lab. Figure 5 diagrams the sample locations, and Table 3 illustrates the analytical results. Results indicated that PCB were greater than 1 mg/kg in three (3) locations: the north bottom, and the north sidewalls.

An additional roll-off container was mobilized to transport the soil to Model City. The contaminated material was excavated and staged in the roll-off container. Round 3 confirmatory samples (#42 thru 60) were collected August 29 &30, 2002, and sent to Analytics Lab. Figure 6 diagrams the soil sample locations, and the results are presented in Table 3. Confirmation results indicated that PCBs were present in one location, and the excavator was used to remove additional soil. Figure 7 diagrams the completed depth of the excavation.

The final two confirmatory samples (#61,62) Round 4 were collected September 3, 2002 and sent to Analytics Lab for analysis. Figure G diagrams the soil sample locations, and the results are presented in table 3. The results were below the cleanup goal of 1 mg/kg.

Prior to removal from the site, the exterior of each roll-off container was inspected after loading and any loose soil on the exterior was removed and placed into the roll-off for disposal. The roll-offs were securely tarped, placards and labels affixed to the outside of the containers and the gates were inspected and tightened.

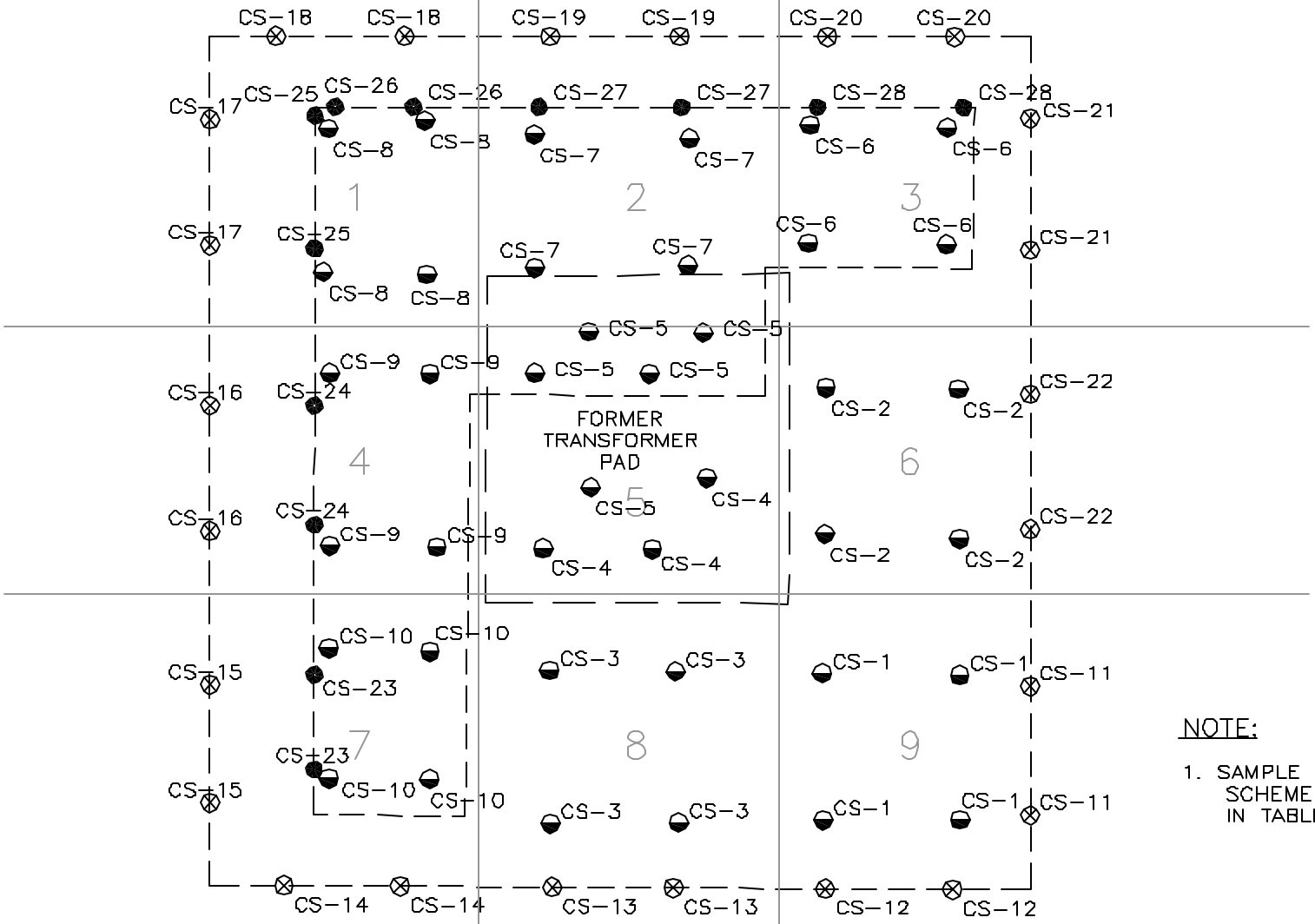
Upon receipt of confirmation sample results that demonstrate that the site action levels of less than 1ppm had been achieved, FWENC submitted the sample results to the Navy and MEDEP for concurrence on September 5, 2002. Sixty two Confirmation Sample Results are presented in Table 3, and the analytical date is presented in Appendix E. See Appendix G for Field Notes

The FWENC superintendent communicated with Claudia Sait of MEDEP on a daily basis regarding the removal status. The IA sample results and confirmation sample results were faxed to MEDEP if the representative was not on-site.

Claudia Sait, MEDEP representative, indicated via cell phone on September 5, 2002, that the site remediation activities and results satisfied MEDEP and notified FWENC that the removal was complete, the excavation could be backfilled and site restored.

3.8 Storm Drain

A grab sample (CB81902-1) was collected on August 19, 2002 from the storm drain catch basin located down-gradient of the transformer area to determine if PCBs are present in the sediment. The sample was collected form 0-feet to 0.25-feet below the sediment surface, and analyzed for PCBs by method 8082.



NOTE:

1. SAMPLE IDENTIFICATION SCHEME IS PRESENTED IN TABLE 3.

NOT TO SCALE

LEGEND:

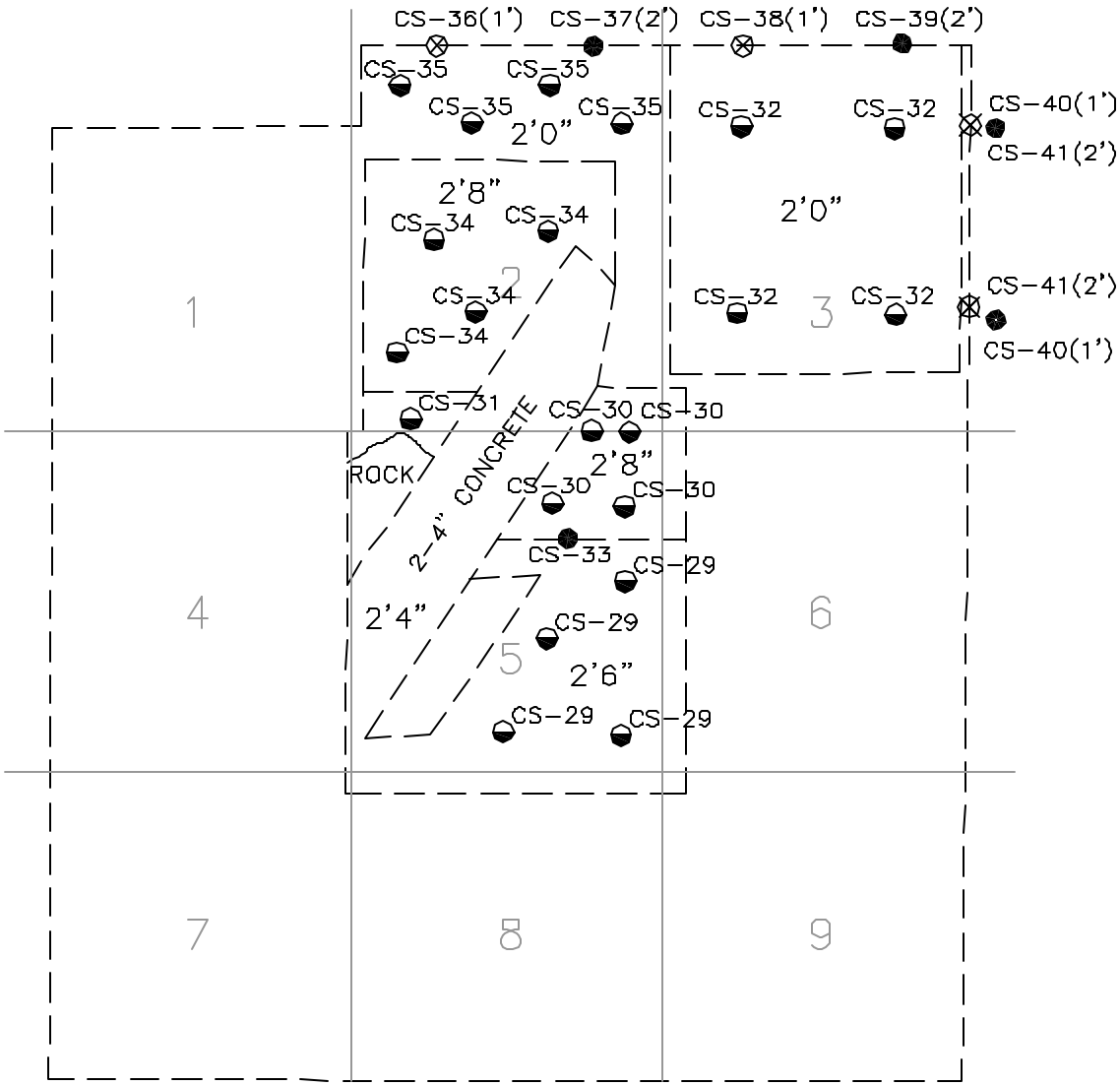
- ⊗ 15 SIDEWALL SAMPLE (0–0.5') LOCATION & ID
- ● 25 SIDEWALL SAMPLE (1–2') LOCATION & ID
- ◒ 1 BOTTOM SAMPLE (ALIQUOT) LOCATION & ID
- —— —— —— PAD FOOTPRINT
- — — — — — 1–2' EXCAVATION

NAVYRAC\BRUNSWICKNAS\TOPSHAM\TOPSHAM_BLDG335_ROUND1SAMP.dwg

PCB SOIL CLEANUP – COMMISSARY ANNEX
TOPSHAM, MAINE

FIGURE 4
CONFIRMATORY SAMPLE LOCATIONS – ROUND 1

FOSTER WHEELER ENVIRONMENTAL CORPORATION



NOTE:

1. SAMPLE IDENTIFICATION SCHEME IS PRESENTED IN TABLE 3.

NOT TO SCALE

LEGEND:

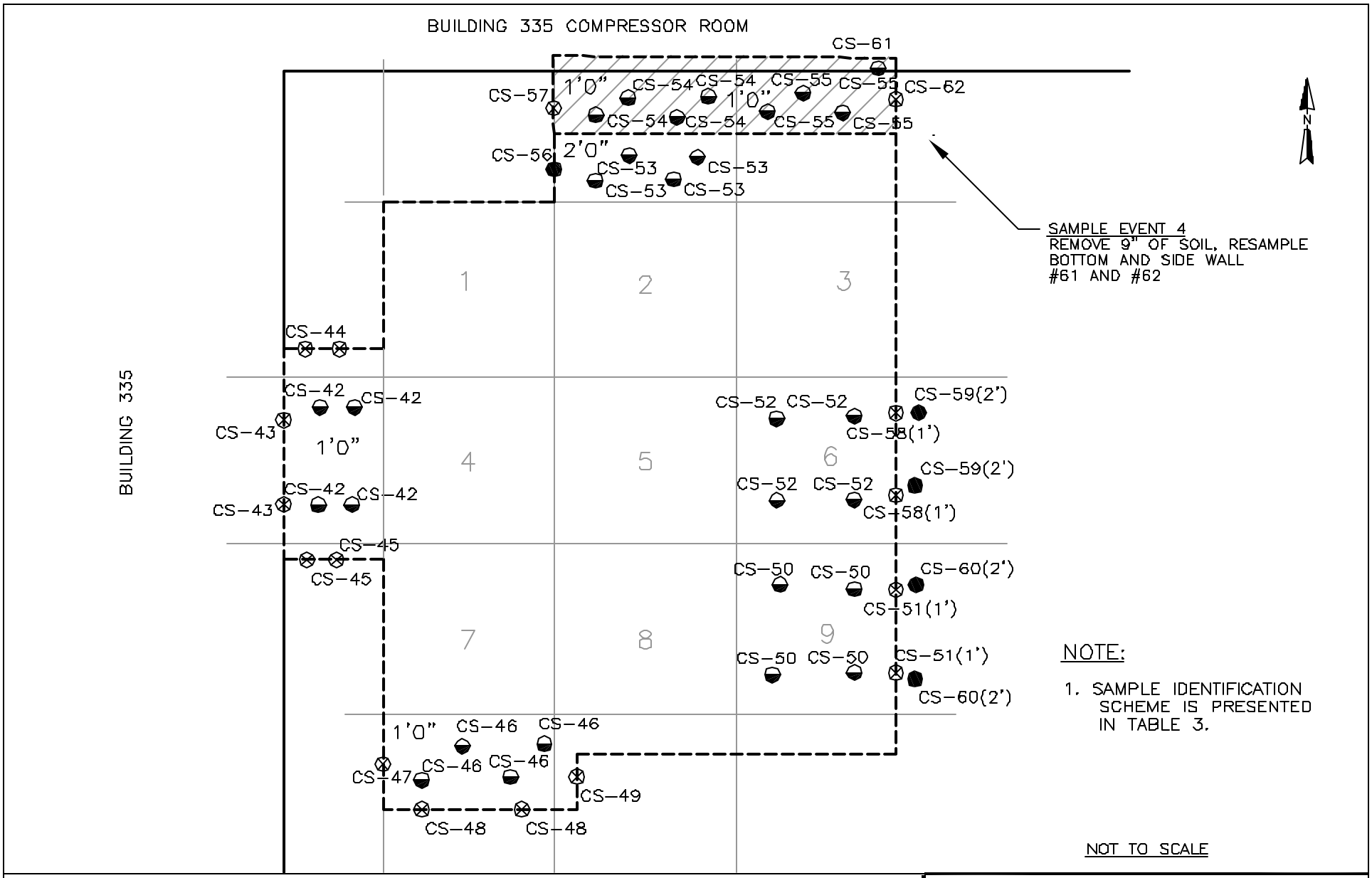
- ⊗ 36 — SIDEWALL SAMPLE (0–0.5') LOCATION & ID
- ◒ 29 — BOTTOM SAMPLE (ALIQUOT) LOCATION AND ID
- 2'8" — EXCAVATION DEPTH BELOW GRADE
- ● — SIDEWALL SAMPLE (1–2') LOCATION & ID
- — — — — — EXCAVATION

NAVYRAC\BRUNSWICKNAS\TOPSHAM\TOPSHAM_BLDG335_ROUND2SAMP.dwg

PCB SOIL CLEANUP – COMMISSARY ANNEX
TOPSHAM, MAINE

FIGURE 5
CONFIRMATORY SAMPLE LOCATIONS – ROUND 2

FOSTER WHEELER ENVIRONMENTAL CORPORATION



LEGEND:

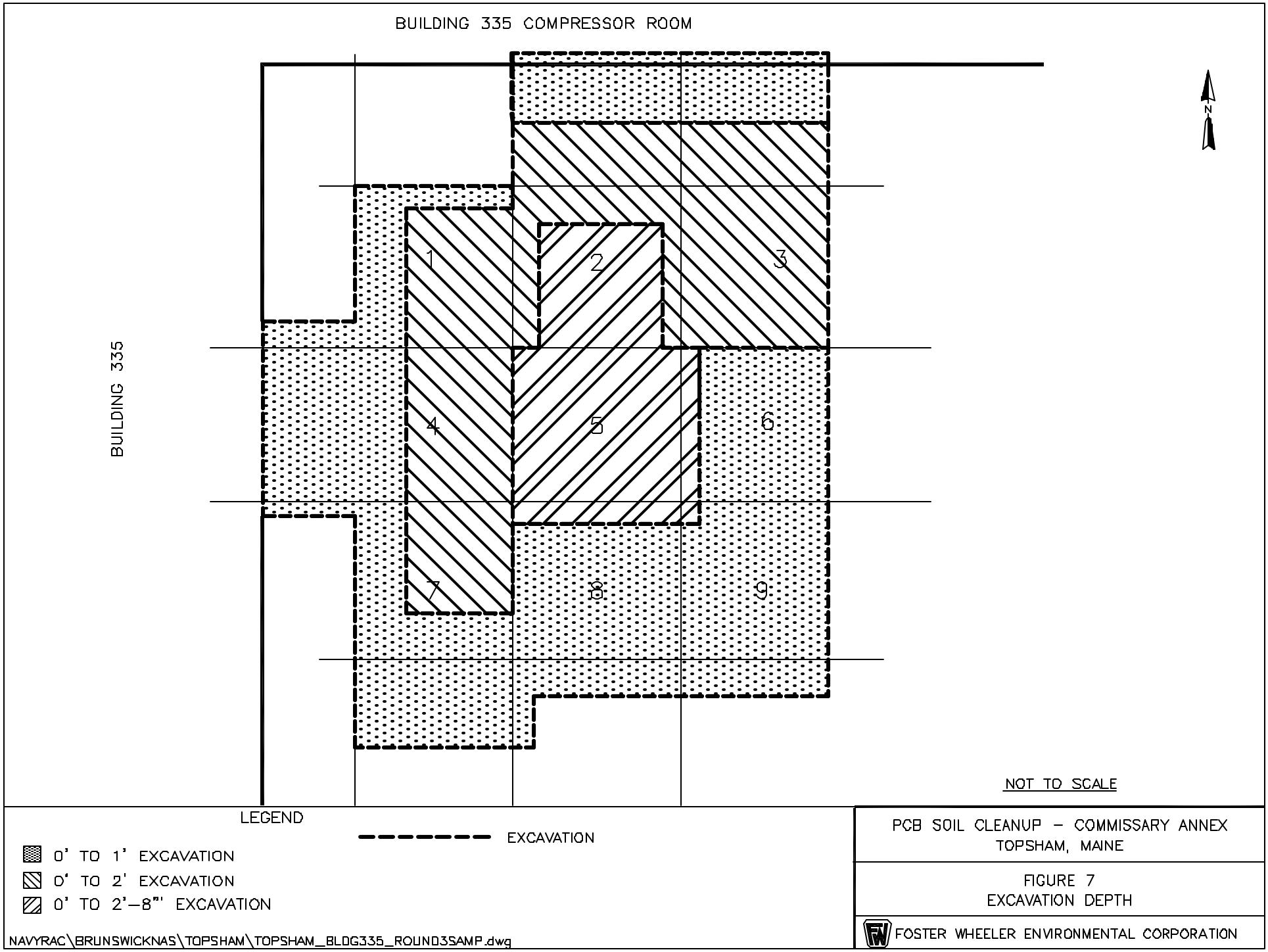
- ⊗48 SIDEWALL SAMPLE LOCATION & ID
- 54 BOTTOM SAMPLE LOCATION AND ID
- 1'0" EXCAVATION DEPTH BELOW GRADE
- SIDEWALL SAMPLE (1-2') LOCATION & ID
- EXCAVATION

NAVYRAC\BRUNSWICKNAS\TOPSHAM\TOPSHAM_BLDG335_ROUND3SAMP.dwg

PCB SOIL CLEANUP – COMMISSARY ANNEX
TOPSHAM, MAINE

FIGURE 6
CONFIRMATORY SAMPLE LOCATIONS–ROUNDS 3 & 4

FOSTER WHEELER ENVIRONMENTAL CORPORATION


BUILDING 335 COMPRESSOR ROOM
BUILDING 335
1
2
3
4
5
6
7
8
9
N
NOT TO SCALE
LEGEND
EXCAVATION
0' TO 1' EXCAVATION
0' TO 2' EXCAVATION
0' TO 2'-8"' EXCAVATION
NAVYRAC\BRUNSWICKNAS\TOPSHAM\TOPSHAM_BLDG335_ROUND3SAMP.dwg
PCB SOIL CLEANUP - COMMISSARY ANNEX
TOPSHAM, MAINE
FIGURE 7
EXCAVATION DEPTH
FOSTER WHEELER ENVIRONMENTAL CORPORATION

The analytical result was ND (Non-Detect) for the catch basin.

Table 4 Catch Basin Sample Result		
LOCATION	**RESULT (UG/KG)**	**Notes**
CB81902-1	Non-Detect	Catch Basin sample

3.9 Off-Site Disposal

The waste characterization sample results (Appendix H) were submitted to Global Transportation Services of Duxbury, Massachusetts. Global submitted a waste profile to CWM Model City, New York for approval for shipment. After the material was profiled into Model City, FWENC coordinated shipment and disposal with Global and NASB personnel. A total of four (4) shipments were made to Model City, and the total material shipped was 75.09 tons. Copies of the hazardous waste manifests are included in Appendix F.

3.10 Waste Management

FWENC decontaminated the excavator bucket, and collected two wipe samples. One sample each from the inside and outside of the bucket surfaces. The wipe samples were sent for 24-hour turnaround at Analytics Laboratory. The wipe samples from the excavator bucket results were non detect, and the excavator was demobilized. (Appendix I)

The decontamination water generated from decontamination procedures performed with the sampling tools and the excavator bucket was collected and drummed. Approximately 30 gallons of decontamination water was sampled for various constituents by Analytics Laboratory for liquid waste characterization. The liquid contained no PCBs, however there was a positive detection for DRO. The drum was taken to the Brunswick Naval air station water treatment plant, where the liquid was treated.

Decontamination materials consisting of expended paper towels, PPE, sampling kit waste, sample soil and jar hardware, and poly sheeting that were generated during the remediation and sampling process were disposed of by placing the materials in large construction plastic bags and placing the bags in the roll-off containers.

3.11 Site Restoration

Upon receipt and review of the confirmation sample results that demonstrated that the site actions levels of less than 1ppm were achieved, FWENC obtained verbal concurrence from MEDEP on September 5, 2002, that the remediation goal for the site was complete.

Site restoration included backfilling the excavation with bank run material covered with a 6-inch layer of screened topsoil. Contractors grade grass seed was applied at a rate greater than the recommended coverage rate, raked into the topsoil layer and covered with a layer of straw mulch.

Bank run material was obtained and delivered from Harry Crooker & Sons, Topsham, ME. FWENC received 2 loads; 20.26 tons (ticket # 118295) and 18.4 tons. (ticket # 118279) for a total of 38.66 tons. FWENC mobilized a front-end loader to place backfill. FWENC backfilled the excavation with bank run gravel, placing the backfill in 6-inch lifts and compacting with the bucket of the loader.

Screened topsoil was additionally purchased and supplied by Harry Crooker & Sons, Topsham, ME. FWENC received 2 loads of screened topsoil; 10.0 cubic yards each (ticket #88757 & # 88758) totaling 20.0 cubic yards. The topsoil was graded and raked to follow the existing ground contours.

FWENC distributed a contractor's seed mix and raked the seed into the topsoil layer. The area was covered with a layer of straw mulch to maintain moisture and soil stability.

Appendix A

Transformer Relocation Sample Results

analytics environmental laboratory LLC

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800-929-9906
analytics@analyticslab.com

June 18, 2002

Mr. Josh Holden
Foster Wheeler Environmental Corporation
P.O. Box 660
Kittery ME 03904

RE: Analytical Results Case Narrative
Analytics # 47552
Navy – EFA-NE RAC II
FWEC Project # N62472-99-D-0032
Brunswick Naval Air Station
Brunswick, ME

Dear Mr. Holden;

Enclosed please find the analytical results for samples submitted for the above-mentioned project. The attached Cover Page lists the sample IDs, Lab tracking numbers and collection dates for the samples included in this deliverable.

The samples were analyzed for PCBs by EPA Method 8082 Unless otherwise noted in the Non-conformance Summary listed below, all of the quality control (QC) criteria including initial calibration, calibration verification, surrogate recovery, holding time and method accuracy/precision for these analyses were within acceptable limits.

This Level 3 data package has been assembled in the following order:

Case Narrative/Non-Conformance Summary
- PCB Form 1 Data Sheet for Samples and Blanks
- PCB Form 10 Confirmation Results Form (if required)
- PCB Form 2 Surrogate Recoveries
- PCB Form 3 MS/MSD (LCS) Recoveries
- PCB Form 4 Method Blank Summary (equiv.) GC/MS Logbook Sheets
- PCB Form 5 DDT Breakdown Summaries
- PCB Form 6 Initial Calibration Data
- PCB Form 7 Continuing Calibration Check
- PCB Form 8 System Monitoring Compound RT Summary
- Chain of Custody (COC) Forms and Sample Receipt Checklist

QC NON CONFORMANCE SUMMARY

Sample Receipt:
No QC deviations.

PCBs by EPA Method 8082:
No QC deviations.

Sincerely,
ANALYTICS Environmental Laboratory, LLC

Stephen L. Knollmeyer
Laboratory Director

analytics environmental laboratory LLC

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Mr. Josh Holden
Foster Wheeler Environmental Corp.
P.O. Box 660
Kittery ME 03904

Report Number: 47552

Revision: Rev. 0

Re: Brunswick **CTO 3, task 3**

Enclosed are the results of the analyses on your sample(s). Samples were received on 30 May 2002 and analyzed for the tests listed below. Samples were received in acceptable condition, with the exceptions noted below or on the chain of custody. The results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report. Please see individual reports for specific methodologies and references.

Lab Number	Sample Date	Station Location	Analysis	Comments
47552-1	05/30/02	PAD-01	EPA 8082 (PCBs only)	
47552-2	05/30/02	PAD-02	EPA 8082 (PCBs only)	
47552-3	05/30/02	CA-01	EPA 8082 (PCBs only)	
47552-4	05/30/02	CA-02	EPA 8082 (PCBs only)	
47552-5	05/30/02	CB-01	EPA 8082 (PCBs only)	
47552-6	05/30/02	CB-02	EPA 8082 (PCBs only)	

Sample Receipt Exceptions: None

Analytics Environmental Laboratory is certified by the states of New Hampshire, Maine, Massachusetts, Connecticut, Rhode Island, North Carolina and is validated by the U.S. Army Corps of Engineers (MRD) and U.S. Navy (NFESC). A list of actual certified parameters is available upon request.

If you have any further question on the analytical methods or these results, do not hesitate to call.

Authorized signature _____
Stephen L. Knollmeyer Lab. Director

Date 6/3/2002

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analytics environmental laboratory LLC

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Mr. Josh Holden
Foster Wheeler Environmental Corp.
P.O. Box 660
Kittery ME 03904

June 12, 2002

SAMPLE DATA

Lab Sample ID: B05302PAS
Matrix: Solid
Percent Solid: 100
Dilution Factor: 1.0
Collection Date:
Lab Receipt Date:
Extraction Date: 05/30/02
Analysis Date: 05/30/02

CLIENT SAMPLE ID

Project Name: Brunswick
Project Number: CTO 3, task 3
Field Sample ID: LABQC

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/kg	Results µg/kg
PCB-1016	15	U
PCB-1221	15	U
PCB-1232	15	U
PCB-1242	15	U
PCB-1248	15	U
PCB-1254	15	U
PCB-1260	15	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	95	%
Decachlorobiphenyl	114	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3545.

COMMENTS: Results are expressed on a dry weight basis.

PCB Report

Authorized signature

analytics environmental laboratory LLC

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Mr. Josh Holden
Foster Wheeler Environmental Corp.
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Kittery ME 03904

June 3, 2002

CLIENT SAMPLE ID

Project Name: Brunswick

Project Number: CTO 3, task 3

Field Sample ID: PAD-01

SAMPLE DATA

Lab Sample ID: 47552-1
Matrix: Solid
Percent Solid: 90
Dilution Factor: 1.1
Collection Date: 05/30/02
Lab Receipt Date: 05/30/02
Extraction Date: 05/30/02
Analysis Date: 05/30/02

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/kg	Results µg/kg
PCB-1016	17	U
PCB-1221	17	U
PCB-1232	17	U
PCB-1242	17	U
PCB-1248	17	U
PCB-1254	17	**235 D**
PCB-1260	17	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	98	%
Decachlorobiphenyl	110	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3545.

COMMENTS: Results are expressed on a dry weight basis. D=Sample did not meet confirmation acceptance criteria for percent difference.

PCB Report

Authorized signature

analytics environmental laboratory LLC

PCB CONFIRMATION RESULTS

Quote#:

SDG: 47552

Project No: CTO 3, Task 3

Site ID: Brunswick

Location: Maine

Instrument ID: F

GC Columns: RTX-CLPesticidesI
RTX-CLPesticidesII

ID: 0.53(mm)

Sample ID: 47552-1

COMPOUND	RESPONSE #1 (ug/kg)	RESPONSE #2 (ug/kg)	DIFFERENCE %	#	% DIFFERENCE Acceptance Limit
PCB 1254	148	235	45	*	40

Column to be used to flag % Difference with an asterisk

* Values outside of QC limits

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June 3, 2002

SAMPLE DATA

Lab Sample ID:	47552-2
Matrix:	Solid
Percent Solid:	86
Dilution Factor:	1.2
Collection Date:	05/30/02
Lab Receipt Date:	05/30/02
Extraction Date:	05/30/02
Analysis Date:	05/31/02

CLIENT SAMPLE ID

Project Name:	Brunswick
Project Number:	CTO 3, task 3
Field Sample ID:	PAD-02

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/kg	Results µg/kg
PCB-1016	18	U
PCB-1221	18	U
PCB-1232	18	U
PCB-1242	18	U
PCB-1248	18	U
PCB-1254	18	U
PCB-1260	18	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	101	%
Decachlorobiphenyl	115	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3545.

COMMENTS: Results are expressed on a dry weight basis.

PCB Report

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Kittery ME 03904

June 3, 2002

SAMPLE DATA

Lab Sample ID:	47552-3
Matrix:	Solid
Percent Solid:	90
Dilution Factor:	1.1
Collection Date:	05/30/02
Lab Receipt Date:	05/30/02
Extraction Date:	05/30/02
Analysis Date:	05/31/02

CLIENT SAMPLE ID

Project Name:	Brunswick
Project Number:	CTO 3, task 3
Field Sample ID:	CA-01

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/kg	Results µg/kg
PCB-1016	17	U
PCB-1221	17	U
PCB-1232	17	U
PCB-1242	17	U
PCB-1248	17	U
PCB-1254	17	**160**
PCB-1260	17	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	97	%
Decachlorobiphenyl	110	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3545.

COMMENTS: Results are expressed on a dry weight basis.

PCB Report

Authorized signature

analytics environmental laboratory LLC

PCB CONFIRMATION RESULTS

Quote#: SDG: 47552

Project No: CTO 3, Task 3 Site ID: Brunswick Location: Maine

Instrument ID: F GC Columns: RTX-CLPesticidesI ID: 0.53(mm)

RTX-CLPesticidesII

Sample ID: 47552-3

COMPOUND	RESPONSE #1 (ug/kg)	RESPONSE #2 (ug/kg)	DIFFERENCE %	#	% DIFFERENCE Acceptance Limit
PCB 1254	160	191	17		40

Column to be used to flag % Difference with an asterisk

* Values outside of QC limits

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June 3, 2002

SAMPLE DATA

Lab Sample ID:	47552-4
Matrix:	Solid
Percent Solid:	85
Dilution Factor:	1.1
Collection Date:	05/30/02
Lab Receipt Date:	05/30/02
Extraction Date:	05/30/02
Analysis Date:	05/31/02

CLIENT SAMPLE ID

Project Name:	Brunswick
Project Number:	CTO 3, task 3
Field Sample ID:	CA-02

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/kg	Results µg/kg
PCB-1016	17	U
PCB-1221	17	U
PCB-1232	17	U
PCB-1242	17	U
PCB-1248	17	U
PCB-1254	17	**20**
PCB-1260	17	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	93	%
Decachlorobiphenyl	109	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3545.

COMMENTS: Results are expressed on a dry weight basis.

PCB Report

Authorized signature

analytics environmental laboratory LLC

PCB CONFIRMATION RESULTS

Quote#: SDG: 47552

Project No: CTO 3, Task 3 Site ID: Brunswick Location: Maine

Instrument ID: F GC Columns: RTX-CLPesticidesI ID: 0.53(mm)

RTX-CLPesticidesII

Sample ID: 47552-4

COMPOUND	RESPONSE #1 (ug/kg)	RESPONSE #2 (ug/kg)	DIFFERENCE %	#	% DIFFERENCE Acceptance Limit
PCB 1254	20	20	0		40

Column to be used to flag % Difference with an asterisk

* Values outside of QC limits

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Mr. Josh Holden
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June 3, 2002

CLIENT SAMPLE ID

Project Name: Brunswick

Project Number: CTO 3, task 3

Field Sample ID: CB-01

SAMPLE DATA

Lab Sample ID: 47552-5
Matrix: Solid
Percent Solid: 88
Dilution Factor: 1.1
Collection Date: 05/30/02
Lab Receipt Date: 05/30/02
Extraction Date: 05/30/02
Analysis Date: 05/31/02

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/kg	Results µg/kg
PCB-1016	17	U
PCB-1221	17	U
PCB-1232	17	U
PCB-1242	17	U
PCB-1248	17	U
PCB-1254	17	24
PCB-1260	17	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	98	%
Decachlorobiphenyl	111	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3545.

COMMENTS: Results are expressed on a dry weight basis.

PCB Report

Authorized signature

analytics environmental laboratory LLC

PCB CONFIRMATION RESULTS

Quote#: SDG: 47552

Project No: CTO 3, Task 3 Site ID: Brunswick Location: Maine

Instrument ID: F GC Columns: RTX-CLPesticidesI ID: 0.53(mm)

RTX-CLPesticidesII

Sample ID: 47552-5

COMPOUND	RESPONSE #1 (ug/kg)	RESPONSE #2 (ug/kg)	DIFFERENCE %	#	% DIFFERENCE Acceptance Limit
PCB 1254	24	26	8		40

Column to be used to flag % Difference with an asterisk

* Values outside of QC limits

analytics environmental laboratory LLC

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P.O. Box 660
Kittery ME 03904

June 3, 2002

SAMPLE DATA

Lab Sample ID:	47552-6
Matrix:	Solid
Percent Solid:	82
Dilution Factor:	1.2
Collection Date:	05/30/02
Lab Receipt Date:	05/30/02
Extraction Date:	05/30/02
Analysis Date:	05/31/02

CLIENT SAMPLE ID

Project Name:	Brunswick
Project Number:	CTO 3, task 3
Field Sample ID:	CB-02

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/kg	Results µg/kg
PCB-1016	18	U
PCB-1221	18	U
PCB-1232	18	U
PCB-1242	18	U
PCB-1248	18	U
PCB-1254	18	U
PCB-1260	18	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	97	%
Decachlorobiphenyl	109	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

COMMENTS: Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3545. Results are expressed on a dry weight basis.

PCB Report

Authorized signature

analytics environmental laboratory LLC

PCB SOLID
SYSTEM MONITORING COMPOUND RECOVERY

Project #: CTO 3 Task 3 Quote #: SDG#: 47552

Site ID: Brunswick Location: Maine

Instrument ID: F

GC Column: RTX-CLPesticides I ID: 0.53(mm)
RTX-CLPesticides II

	SAMPLE ID	COLUMN #1 SMC1	#	COLUMN #1 SMC2	#	COLUMN #2 SMC1	#	COLUMN #2 SMC2	#	TOT OUT	#
01	P2596 16/60 0.5	103%		102%		104%		112%		0	
02	B05302PAS	95%		114%		95%		122%		0	
03	L05302PAS	102%		122%		101%		128%		0	
04	LD05302PAS	102%		123%		103%		129%		0	
05	47552-1	98%		110%		97%		116%		0	
06	47552-2	101%		115%		102%		123%		0	
07	47552-3	97%		110%		97%		117%		0	
08	47552-4	93%		109%		93%		115%		0	
09	47552-5	98%		111%		98%		119%		0	
10	47552-6	97%		109%		96%		115%		0	
11	47552-6 MS	99%		111%		98%		117%		0	
12	47552-6 MSD	100%		113%		99%		121%		0	
13	P2596 16/60 0.5	105%		103%		104%		113%		0	
14											
15											
16											
17											
18											
19											
20											
21											
22											
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24											
25											
26											
27											
28											
29											
30											
31											
32											
33											
34											
35											

SMC1 = TCX 49-134
SMC2 = DCB 69-155

Column to be used to flag recovery values
* Values outside of protocol required QC limits
D System Monitoring Compound diluted out

analytics environmental laboratory LLC

PCB SOLID
LABORATORY CONTROL SPIKE/ DUPLICATE
PERCENT RECOVERY

Project #: CTO 3, Task 3 Quote #: SDG#: 47552

Site ID: Brunswick Location: Maine

Instrument ID: F

GC Column: RTX-CLPesticides I ID: 0.53(mm)

RTX-CLPesticides II

Laboratory Control Spike/Duplicate Sample ID: L05302PAS\LD05302PAS

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENTRATION (ug/kg)	LCS CONCENTRATION (ug/kg)	LCS RECOVERY % #	QC LIMITS % REC
PCB 1016	267	U	281	105	52-127
PCB 1260	267	U	282	106	68-159
PCB 1016 #2	267	U	303	113	57-131
PCB 1260 #2	267	U	296	111	56-139

COMPOUND	SPIKE ADDED (ug/kg)	LCSD CONCENTRATION (ug/kg)	LCSD % REC #	RPD #	QC LIMITS RPD	QC LIMITS % REC.
PCB 1016	267	288	108	2	50	52-127
PCB 1260	267	284	106	1	50	68-159
PCB 1016 #2	267	305	114	1	50	57-131
PCB 1260 #2	267	299	112	1	50	56-139

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits
RPD: 0 out of 4 outside limits
Spike Recovery:0 out of 8 outside limits

Comments: _____

analytics environmental laboratory LLC

PCB SOLID
MATRIX SPIKE/ DUPLICATE
PERCENT RECOVERY

Project #: CTO 3, Task 3 Quote #: SDG#: 47552

Site ID: Brunswick Location: Maine

Instrument ID: F

GC Column: RTX-CLPesticides I ID: 0.53(mm)

RTX-CLPesticides II

Matrix Spike/Duplicate Sample ID: 47552-6

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENTRATION (ug/kg)	MS CONCENTRATION (ug/kg)	MS RECOVERY %	#	QC LIMITS % REC
PCB 1016	317	U	327	103		52-127
PCB 1260	317	U	313	99		68-159
PCB 1016 #2	317	U	332	105		57-131
PCB 1260 #2	317	U	315	100		56-139

COMPOUND	SPIKE ADDED (ug/kg)	MSD CONCENTRATION (ug/kg)	MSD % REC	#	RPD	#	QC LIMITS RPD	QC LIMITS % REC.
PCB 1016	317	330	104		1		50	52-127
PCB 1260	317	322	102		3		50	68-159
PCB 1016 #2	317	335	106		1		50	57-131
PCB 1260 #2	317	319	101		1		50	56-139

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits
RPD: 0 out of 4 outside limits
Spike Recovery: 0 out of 8 outside limits

Comments: _____

PEST/PCB/HERB Instrument: F

Load: [illegible]
Unload: [illegible]

[illegible] 042902-F

Data File	Vial	Sample	Dil	Method	Comments
F24722	99	P2608 PEM		P04292.M	Endrin ISD.
23	99	P2608 PEM		✓	
24	1	PEST 50 PEST			
25	1	P2619 PEST 5		✓	
26	2	P2620 PEST 10		✓	
27	3	P2621 PEST 20		✓	
28	4	P2622 PEST 30		✓	
29	5	P2623 PEST 50		✓	
30	6	P2624 PEST 100		✓	
31	7	P2625 PEST 150		✓	
32	8	P2626 PEST CC 50		✓	
33	9	P2654 CT 0.01/0.02		CT04292.M ✓	
34	10	P2655 CT 0.05/0.1		✓	
35	11	P2656 CT 0.1/0.2		✓	
36	12	P2659 CT 0.5/1.0		✓	
37	13	P2658 CT 1.0/2.0		✓	
38	14	P2657 CT 0.5/1.0 CC		✓	
39	15	P2593 16/60 0.02		PB04292.M ✓	
40	16	P2594 16/60 0.05		✓	
41	17	P2595 16/60 0.1		✓	
42	18	P2596 16/60 0.5		✓	
43	19	P2597 16/60 1.0		✓	
44	20	P2598 16/60 0.5 CC		✓	
45	21	P2580 1221 1.0		✓	
46	22	P2581 1232 1.0		✓	for SPS & overlays.
47	23	P2582 1242 1.0		✓	
48	24	P2583 1248 1.0		✓	
49	25	P2584 1254 1.0		✓	

(CONT.)

PEST/PCB/HERB Instrument: F

Load: [illegible]
Unload: [illegible]

[illegible] 052002-F

Data File	Vial	Sample	Dil	Method	Comments
F25174	99	P2608 PEM		P04292.M	✓
75	1	P2596 16/60 0.5		PB04292.M	✓
76	2	P2623 Pest 50			RM
77	2	P2623 Pest 50			#1 ↓ @ 81%, #2 OK – use to quant.
78	3	B05292PW			✓
79	4	L05292PW			✓
80	5	47499-1 1:20			✓ 50ml → 1ml
81	2	P2623 PEST 50			✓
82	99	P2608 PEM			✓
83	6	B05292PAS			✓
84	7	L05292PAST			#1 DDE @ 70% (limit 72%) #2 OK
85	8	LD05292PAST			✓
86	9	47542-1			RM 1:5 (DDT)
87	10	-2			✓
88	11	-2MS			Many failures.
89	12	-2MSD			
90	2	P2623 PEST 50			✓
91	99	P2608 PEM			#1 DDT BA @ 20% #2 OK
92	13	47540-1			RM Flor.
93	1	P2596 16/60 0.5			PCB.
94	2	P2623 PEST 50			✓
95	99	P2608 PEM			DDT BA >15% Both Clm.
96	14	B05302PAS			✓
97	15	L05302PAS			✓
98	16	LD05302PAS			✓
99	17	47552-1			✓
200	18	-2			✓
01	19	-3			✓

Cont on pg. 47

PEST/PCB/HERB Instrument: F

Load: [signature]

Unload: [signature]

Con from last pag

Data File	Vial	Sample	Dil	Method	Comments
F25 2 02	20	47552-4		Pb04292.m	✓
03	21	-5			✓
04	22	-6			✓
05	23	-6,MS			✓
06	24	-6,MSD			✓
7	1	P2596 16/60 0.5			✓

5-31-07

[signature]

analytics environmental laboratory LLC

PCB
INITIAL CALIBRATION DATA

Project #: CTO 3 Task 3 Quote #: SDG#: 47552

Site ID: Brunswick Location: Maine

Instrument ID: F

GC Column: RTX-CLPesticides I ID: 0.53(mm)

RTX-CLPesticides II

Method Name: PB04292.M

Level 1 File Name	F24739.D
Level 2 File Name	F24740.D
Level 3 File Name	F24741.D
Level 4 File Name	F24742.D
Level 5 File Name	F24743.D

Compound	Calibration Fit	R
TCX	Linear	0.999
Ar1016 A	Linear	0.999
Ar1016 B	Linear	0.999
Ar1016 C	Linear	0.999
Ar1260 A	Linear	0.999
Ar1260 B	Linear	0.998
Ar1260 C	Linear	0.998
Ar1260 D	Linear	0.999
DCB	Linear	0.999
TCX #2	Linear	0.999
Ar1016 A #2	Linear	1.000
Ar1016 B #2	Linear	0.998
Ar1016 C #2	Linear	0.999
Ar1260 A #2	Linear	0.998
Ar1260 B #2	Linear	0.999
Ar1260 C #2	Linear	0.999
Ar1260 D #2	Linear	0.999
DCB #2	Linear	0.999

*Compounds must have a %RSD of ≤20% or correlation coefficient of 0.995 or greater.

Comments:

Quantitation Report (QT Reviewed)

Signal #1 : D:\HPCHEM\2\DATA\042902-F\F24739.D\ECD1A.CH Vial: 15
Signal #2 : D:\HPCHEM\2\DATA\042902-F\F24739.D\ECD2B.CH
Acq On : 29 Apr 2002 4:44 pm Operator:
Sample : P2593 16/60 0.02 Inst : Instrume
Misc : Multiplr: 1.00
IntFile Signal #1: PCBINT.E IntFile Signal #2: PCBINT2.E
Quant Time: Apr 30 11:59 2002 Quant Results File: PB04292.RES

Quant Method : D:\HPCHEM\2\METHODS\PB04292.M (Chemstation Integrator)
Title : Aroclor 1016/1260
Last Update : Tue Apr 30 11:57:04 2002
Response via : Initial Calibration
DataAcq Meth : PEST.M

4-30-02

Volume Inj. : 3 ul
Signal #1 Phase : DB-1701 Widebore Signal #2 Phase: DB-5 Widebore
Signal #1 Info : 0.53 mm , 1.0um f Signal #2 Info : 0.53 mm, 1.5um fil

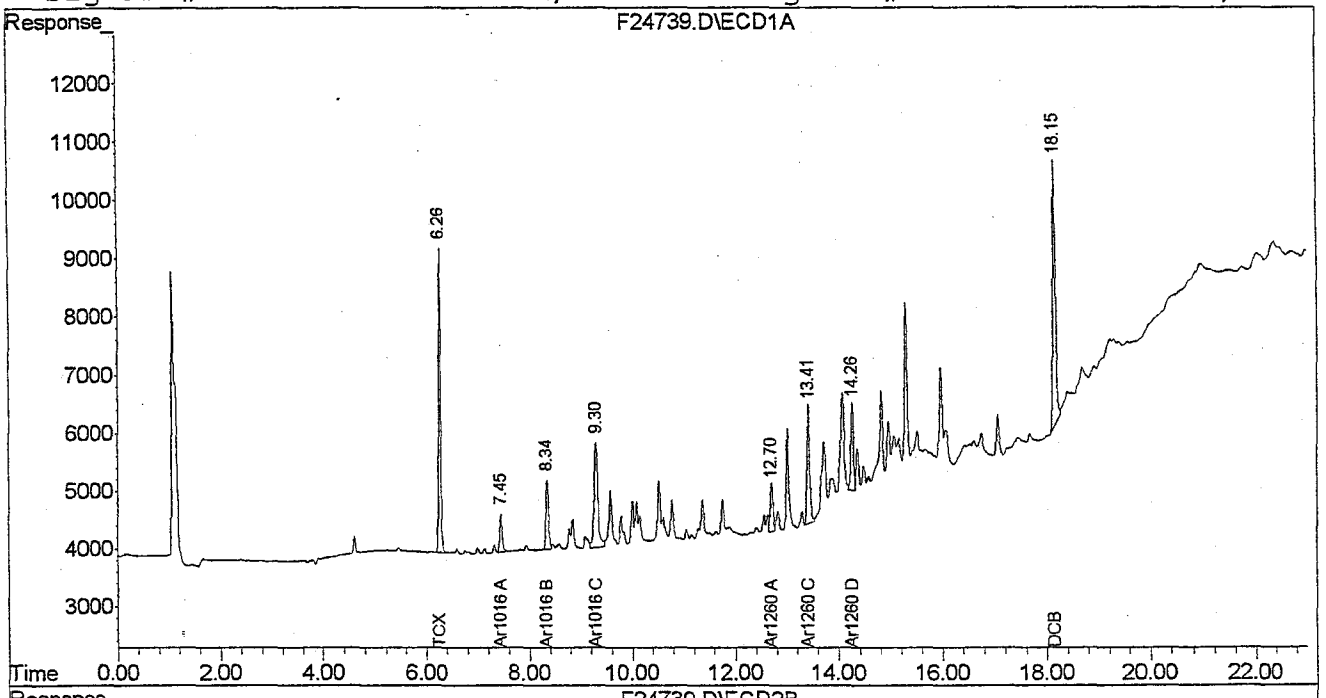
Compound	RT#1	RT#2	Resp#1	Resp#2	ug/ml	ug/ml
System Monitoring Compounds						
1) S TCX	6.26	5.23	143894	146677	0.003	0.003 #
Spiked Amount	0.100 Range	46 - 122	Recovery	=	3.00%#	3.00%#
9) S DCB	18.15	16.01	155835	250586	0.002m	0.003
Spiked Amount	0.100 Range	26 - 86	Recovery	=	2.00%#	3.00%#
Target Compounds						
2) L1 Ar1016 A	7.45	6.07	21384	33878	0.003	0.014m#
3) L1 Ar1016 B	8.34	6.82	47869	62848	0.002	0.005m#
4) L1 Ar1016 C	9.30	7.77	91254	86092	0.006	0.016m#
Sum Ar1016 A			160507	182818	0.012	0.036
Average Ar1016 A					0.004	0.012
5) L2 Ar1260 A	12.70	11.20	29130	71861	0.006	0.005
6) L2 Ar1260 B	13.01	12.46	63631	65802	N.D.	0.009 #
7) L2 Ar1260 C	13.41	12.91	69985	69112	0.001	0.016 #
8) L2 Ar1260 D	14.26	13.49	53046	132529	0.010m	0.021 #
Sum Ar1260 A			152161	339303	0.011	0.051
Average Ar1260 A					0.004	0.013

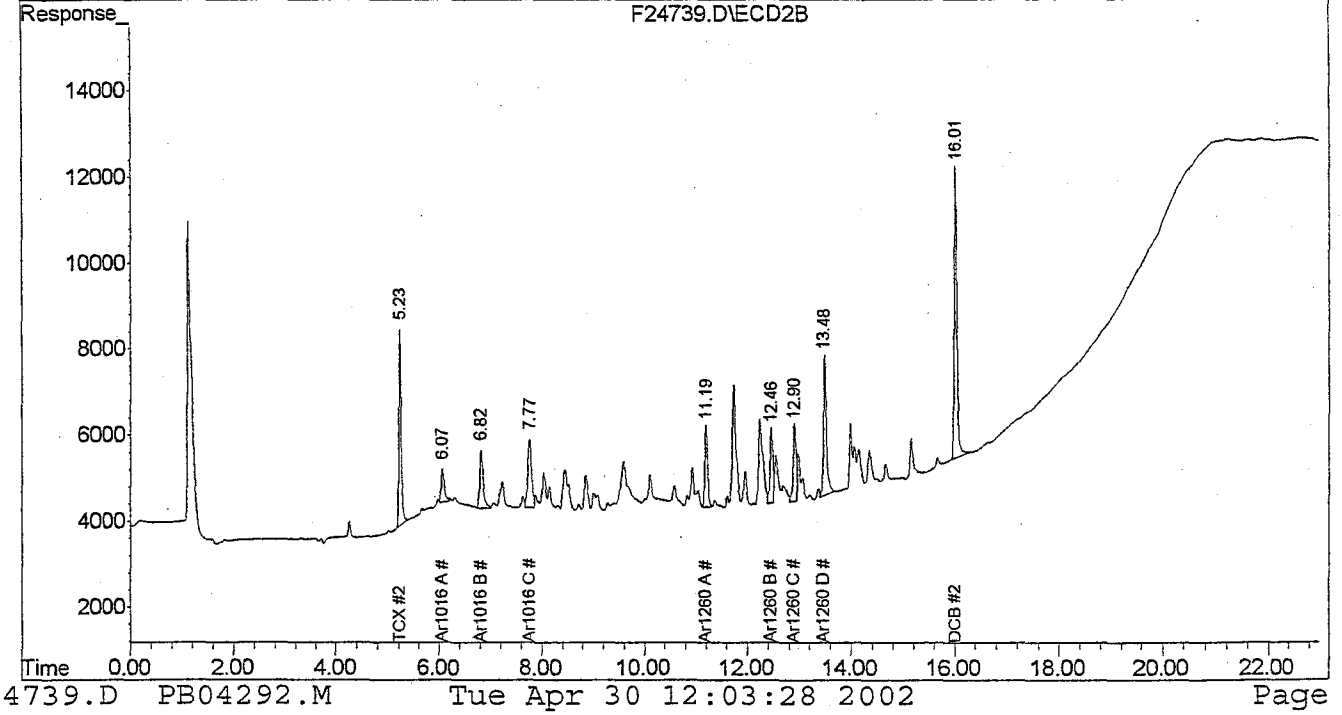
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Signal #1 : D:\HPCHEM\2\DATA\042902-F\F24739.D\ECD1A.CH Vial: 15
Signal #2 : D:\HPCHEM\2\DATA\042902-F\F24739.D\ECD2B.CH
Acq On : 29 Apr 2002 4:44 pm Operator:
Sample : P2593 16/60 0.02 Inst : Instrume
Misc : Multiplr: 1.00
IntFile Signal #1: PCBINT.E IntFile Signal #2: PCBINT2.E
Quant Time: Apr 30 11:59 2002 Quant Results File: PB04292.RES

Quant Method : D:\HPCHEM\2\METHODS\PB04292.M (Chemstation Integrator)
Title : Aroclor 1016/1260
Last Update : Tue Apr 30 11:57:04 2002
Response via : Multiple Level Calibration
DataAcq Meth : PEST.M

Volume Inj. : 3 ul
Signal #1 Phase : DB-1701 Widebore Signal #2 Phase: DB-5 Widebore
Signal #1 Info : 0.53 mm , 1.0um f Signal #2 Info : 0.53 mm, 1.5um fil





Quantitation Report (QT Reviewed)

Signal #1 : D:\HPCHEM\2\DATA\042902-F\F24740.D\ECD1A.CH Vial: 16
Signal #2 : D:\HPCHEM\2\DATA\042902-F\F24740.D\ECD2B.CH
Acq On : 29 Apr 2002 5:10 pm Operator:
Sample : P2594 16/60 0.05 Inst : Instrume
Misc : Multiplr: 1.00
IntFile Signal #1: PCBINT.E IntFile Signal #2: PCBINT2.E
Quant Time: Apr 30 11:59 2002 Quant Results File: PB04292.RES

Quant Method : D:\HPCHEM\2\METHODS\PB04292.M (Chemstation Integrator)
Title : Aroclor 1016/1260
Last Update : Tue Apr 30 11:57:04 2002
Response via : Initial Calibration
DataAcq Meth : PEST.M

4.30.02

Volume Inj. : 3 ul
Signal #1 Phase : DB-1701 Widebore Signal #2 Phase: DB-5 Widebore
Signal #1 Info : 0.53 mm , 1.0um f Signal #2 Info : 0.53 mm, 1.5um fil

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/ml	ug/ml
System Monitoring Compounds						
1) S TCX	6.26	5.24	376474	417458	0.010	0.010
Spiked Amount	0.100 Range	46 - 122	Recovery	=	10.00%#	10.00%#
9) S DCB	18.15	16.01	378822	607729	0.012m	0.011
Spiked Amount	0.100 Range	26 - 86	Recovery	=	12.00%#	11.00%#
Target Compounds						
2) L1 Ar1016 A	7.45	6.07	52822	83872	0.045	0.057m#
3) L1 Ar1016 B	8.34	6.82	117159	158836	0.049	0.055m
4) L1 Ar1016 C	9.30	7.77	204604	217420	0.046	0.052m
Sum Ar1016 A			374585	460128	0.140	0.163
Average Ar1016 A					0.047	0.054
5) L2 Ar1260 A	12.70	11.20	66694	183458	0.048	0.056
6) L2 Ar1260 B	13.01	12.46	148078	163608	0.042	0.055 #
7) L2 Ar1260 C	13.41	12.91	162509	153958	0.047	0.057
8) L2 Ar1260 D	14.26	13.49	120634	349449	0.054	0.059
Sum Ar1260 A			497914	850473	0.190	0.226
Average Ar1260 A					0.048	0.057

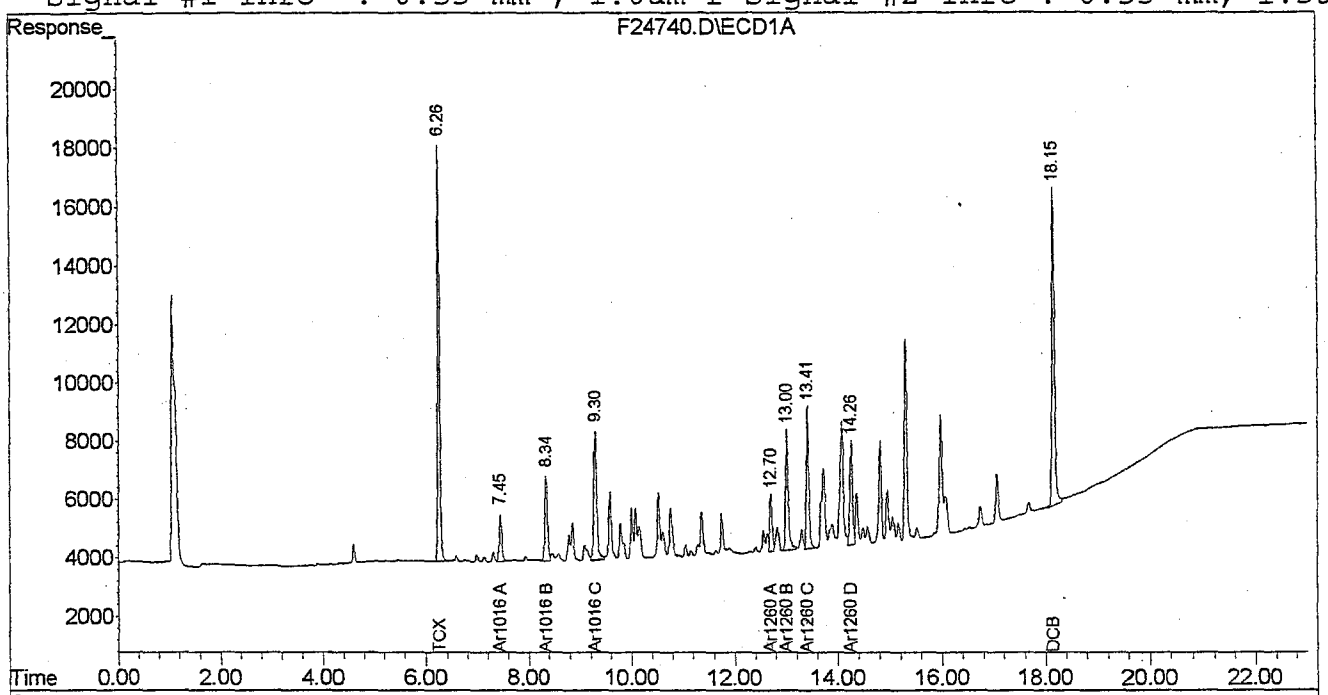
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

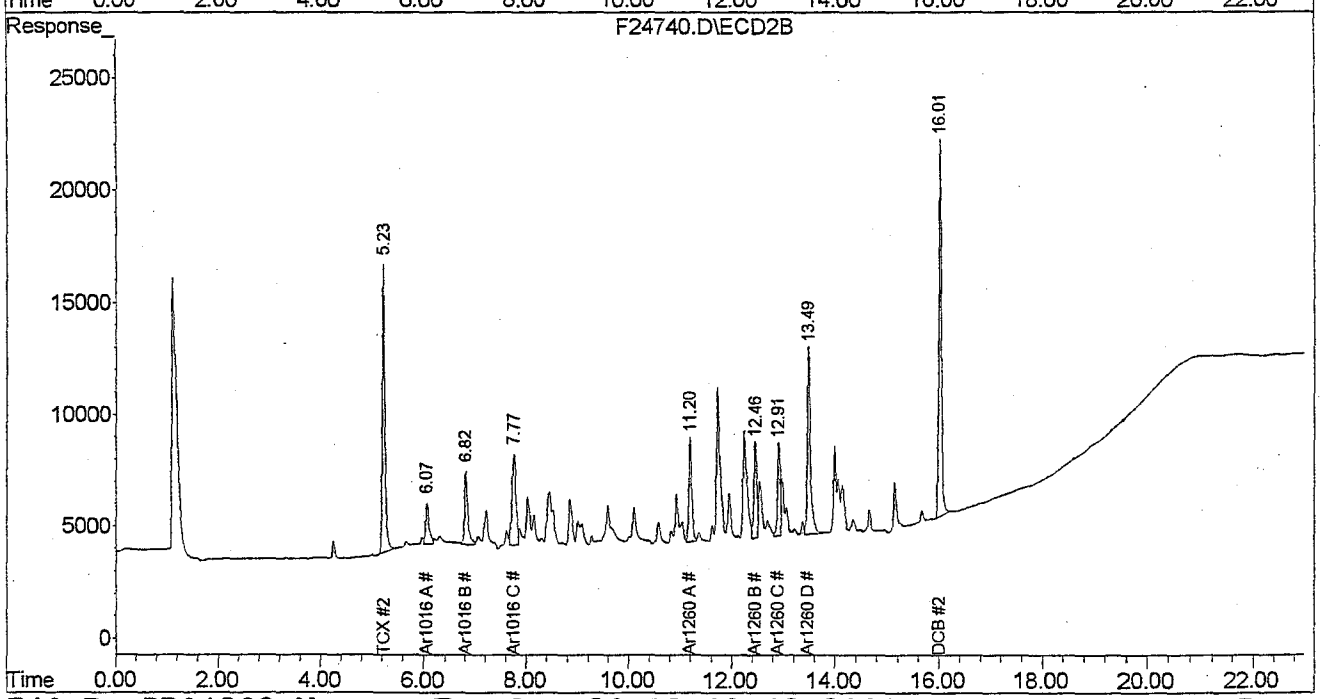
Quantitation Report (QT Reviewed)

Signal #1 : D:\HPCHEM\2\DATA\042902-F\F24740.D\ECD1A.CH Vial: 16
Signal #2 : D:\HPCHEM\2\DATA\042902-F\F24740.D\ECD2B.CH
Acq On : 29 Apr 2002 5:10 pm Operator:
Sample : P2594 16/60 0.05 Inst : Instrume
Misc : Multiplr: 1.00
IntFile Signal #1: PCBINT.E IntFile Signal #2: PCBINT2.E
Quant Time: Apr 30 11:59 2002 Quant Results File: PB04292.RES

Quant Method : D:\HPCHEM\2\METHODS\PB04292.M (Chemstation Integrator)
Title : Aroclor 1016/1260
Last Update : Tue Apr 30 11:57:04 2002
Response via : Multiple Level Calibration
DataAcq Meth : PEST.M

Volume Inj. : 3 ul
Signal #1 Phase : DB-1701 Widebore Signal #2 Phase: DB-5 Widebore
Signal #1 Info : 0.53 mm , 1.0um f Signal #2 Info : 0.53 mm, 1.5um fil





Quantitation Report (QT Reviewed)

Signal #1 : D:\HPCHEM\2\DATA\042902-F\F24741.D\ECD1A.CH Vial: 17
Signal #2 : D:\HPCHEM\2\DATA\042902-F\F24741.D\ECD2B.CH
Acq On : 29 Apr 2002 5:37 pm Operator:
Sample : P2595 16/60 0.1 Inst : Instrume
Misc : Multiplr: 1.00
IntFile Signal #1: PCBINT.E IntFile Signal #2: PCBINT2.E
Quant Time: Apr 30 12:00 2002 Quant Results File: PB04292.RES

Quant Method : D:\HPCHEM\2\METHODS\PB04292.M (Chemstation Integrator)
Title : Aroclor 1016/1260
Last Update : Tue Apr 30 11:57:04 2002
Response via : Initial Calibration
DataAcq Meth : PEST.M

4.30.02

Volume Inj. : 3 ul
Signal #1 Phase : DB-1701 Widebore Signal #2 Phase: DB-5 Widebore
Signal #1 Info : 0.53 mm , 1.0um f Signal #2 Info : 0.53 mm, 1.5um fil

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/ml	ug/ml
System Monitoring Compounds						
1) S TCX	6.27	5.24	777278	997352	0.023	0.025
Spiked Amount	0.100	Range	46 - 122	Recovery	= 23.00%#	25.00%#
9) S DCB	18.15	16.02	717741	1220002	0.027m	0.027
Spiked Amount	0.100	Range	26 - 86	Recovery	= 27.00%	27.00%
Target Compounds						
2) L1 Ar1016 A	7.45	6.07	108148	169400	0.119	0.130m
3) L1 Ar1016 B	8.35	6.83	222874	305010	0.121	0.130m
4) L1 Ar1016 C	9.30	7.77	390451	466750	0.111	0.119m
Sum Ar1016 A			721474	941160	0.351	0.379
Average Ar1016 A					0.117	0.126
5) L2 Ar1260 A	12.71	11.20	127364	363316	0.115	0.138
6) L2 Ar1260 B	13.01	12.46	271231	317800	0.112	0.127
7) L2 Ar1260 C	13.42	12.91	307222	298555	0.118	0.126
8) L2 Ar1260 D	14.26	13.49	229596	713352	0.124	0.122
Sum Ar1260 A			935413	1693024	0.470	0.514
Average Ar1260 A					0.118	0.128

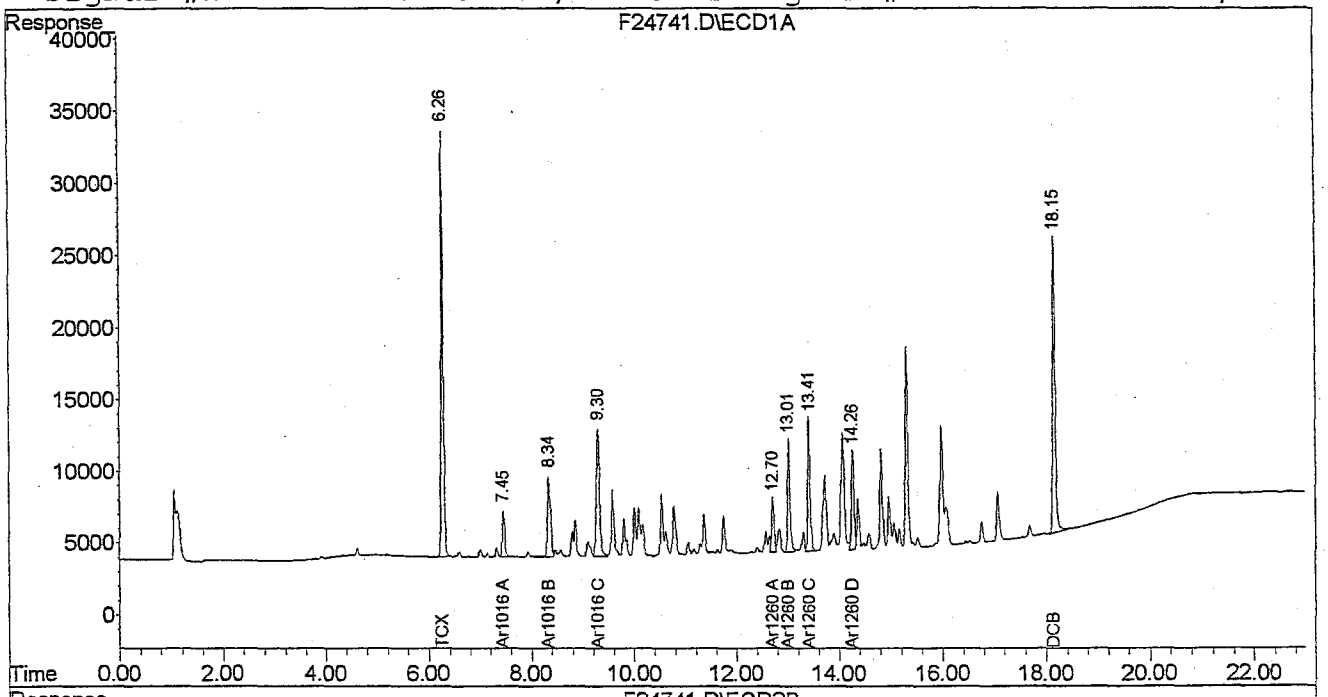
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

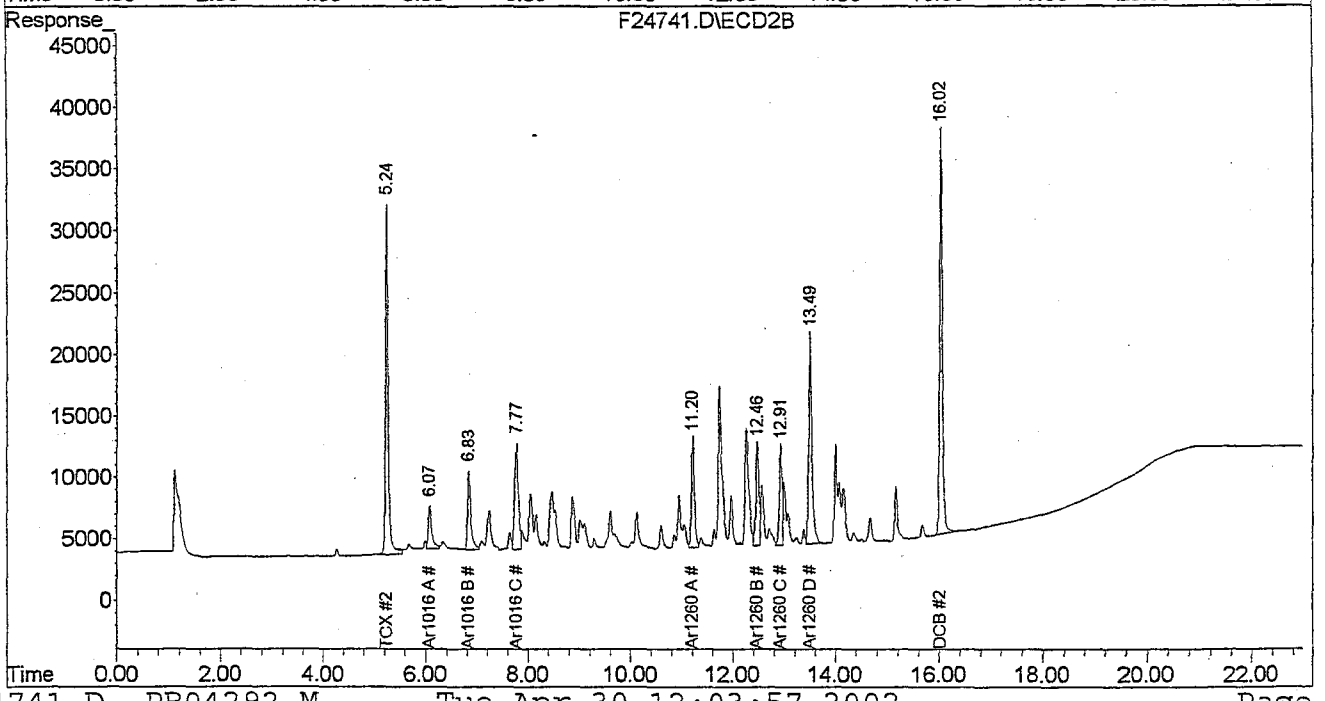
Quantitation Report (QT Reviewed)

Signal #1 : D:\HPCHEM\2\DATA\042902-F\F24741.D\ECD1A.CH Vial: 17
Signal #2 : D:\HPCHEM\2\DATA\042902-F\F24741.D\ECD2B.CH
Acq On : 29 Apr 2002 5:37 pm Operator:
Sample : P2595 16/60 0.1 Inst : Instrume
Misc : Multiplr: 1.00
IntFile Signal #1: PCBINT.E IntFile Signal #2: PCBINT2.E
Quant Time: Apr 30 12:00 2002 Quant Results File: PB04292.RES

Quant Method : D:\HPCHEM\2\METHODS\PB04292.M (Chemstation Integrator)
Title : Aroclor 1016/1260
Last Update : Tue Apr 30 11:57:04 2002
Response via : Multiple Level Calibration
DataAcq Meth : PEST.M

Volume Inj. : 3 ul
Signal #1 Phase : DB-1701 Widebore Signal #2 Phase: DB-5 Widebore
Signal #1 Info : 0.53 mm , 1.0um f Signal #2 Info : 0.53 mm, 1.5um fil





Quantitation Report (QT Reviewed)

Signal #1 : D:\HPCHEM\2\DATA\042902-F\F24742.D\ECD1A.CH Vial: 18
Signal #2 : D:\HPCHEM\2\DATA\042902-F\F24742.D\ECD2B.CH
Acq On : 29 Apr 2002 6:03 pm Operator:
Sample : P2596 16/60 0.5 Inst : Instrume
Misc : Multiplr: 1.00
IntFile Signal #1: PCBINT.E IntFile Signal #2: PCBINT2.E
Quant Time: Apr 30 12:01 2002 Quant Results File: PB04292.RES

Quant Method : D:\HPCHEM\2\METHODS\PB04292.M (Chemstation Integrator)
Title : Aroclor 1016/1260
Last Update : Tue Apr 30 11:57:04 2002
Response via : Initial Calibration
DataAcq Meth : PEST.M

4.30.02

Volume Inj. : 3 ul
Signal #1 Phase : DB-1701 Widebore Signal #2 Phase: DB-5 Widebore
Signal #1 Info : 0.53 mm , 1.0um f Signal #2 Info : 0.53 mm, 1.5um fil

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/ml	ug/ml
System Monitoring Compounds						
1) S TCX	6.27	5.24	3535720	5006280	0.114	0.125
Spiked Amount	0.100	Range	46 - 122	Recovery	= 114.00%	125.00%#
9) S DCB	18.15	16.02	2876837	5020418	0.122m	0.120
Spiked Amount	0.100	Range	26 - 86	Recovery	= 122.00%#	120.00%#
Target Compounds						
2) L1 Ar1016 A	7.45	6.08	452190	721078	0.580	0.604m
3) L1 Ar1016 B	8.35	6.83	896724	1327533	0.576	0.657
4) L1 Ar1016 C	9.30	7.78	1733171	2629143	0.583	0.702
Sum Ar1016 A			3082085	4677754	1.738	1.964
Average Ar1016 A					0.579	0.655
5) L2 Ar1260 A	12.71	11.20	555832	1522300	0.590	0.663
6) L2 Ar1260 B	13.01	12.46	1111549	1338387	0.593	0.608
7) L2 Ar1260 C	13.42	12.91	1287964	1351334	0.604	0.631
8) L2 Ar1260 D	14.26	13.49	967053	3506210	0.602	0.611
Sum Ar1260 A			3922399	7718232	2.389	2.513
Average Ar1260 A					0.597	0.628

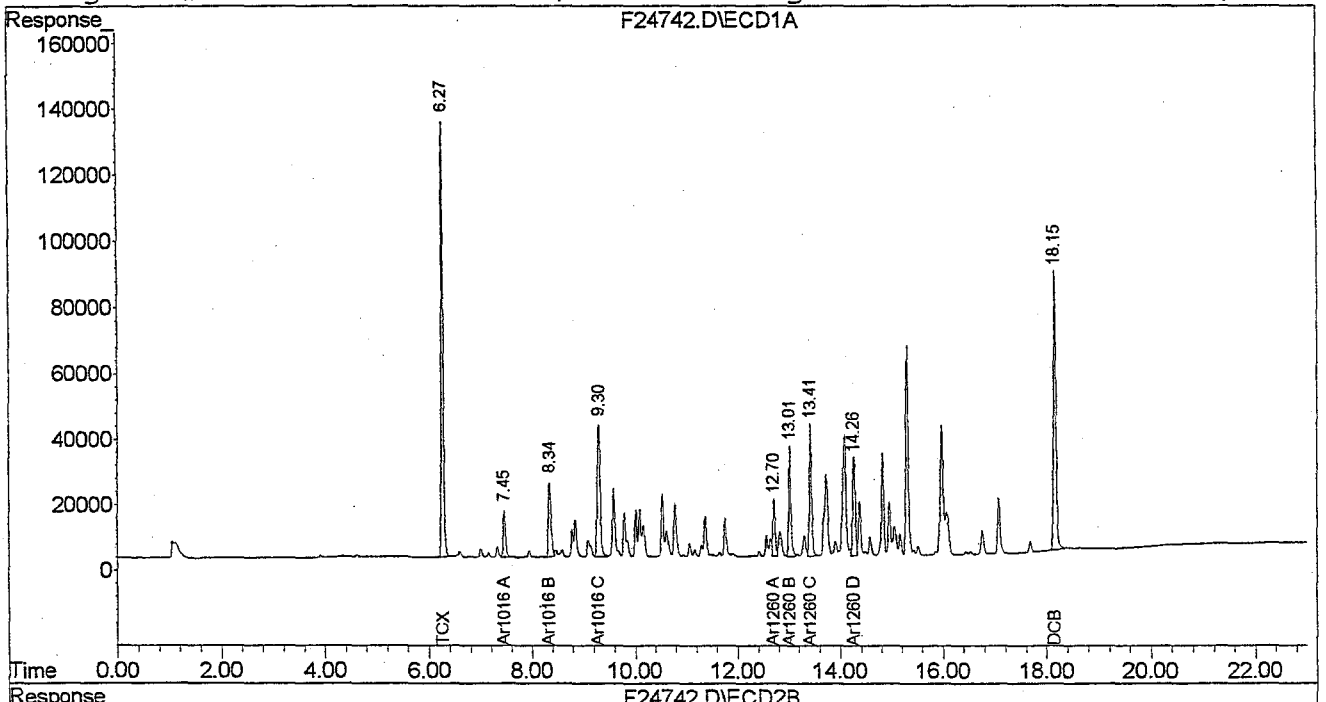
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

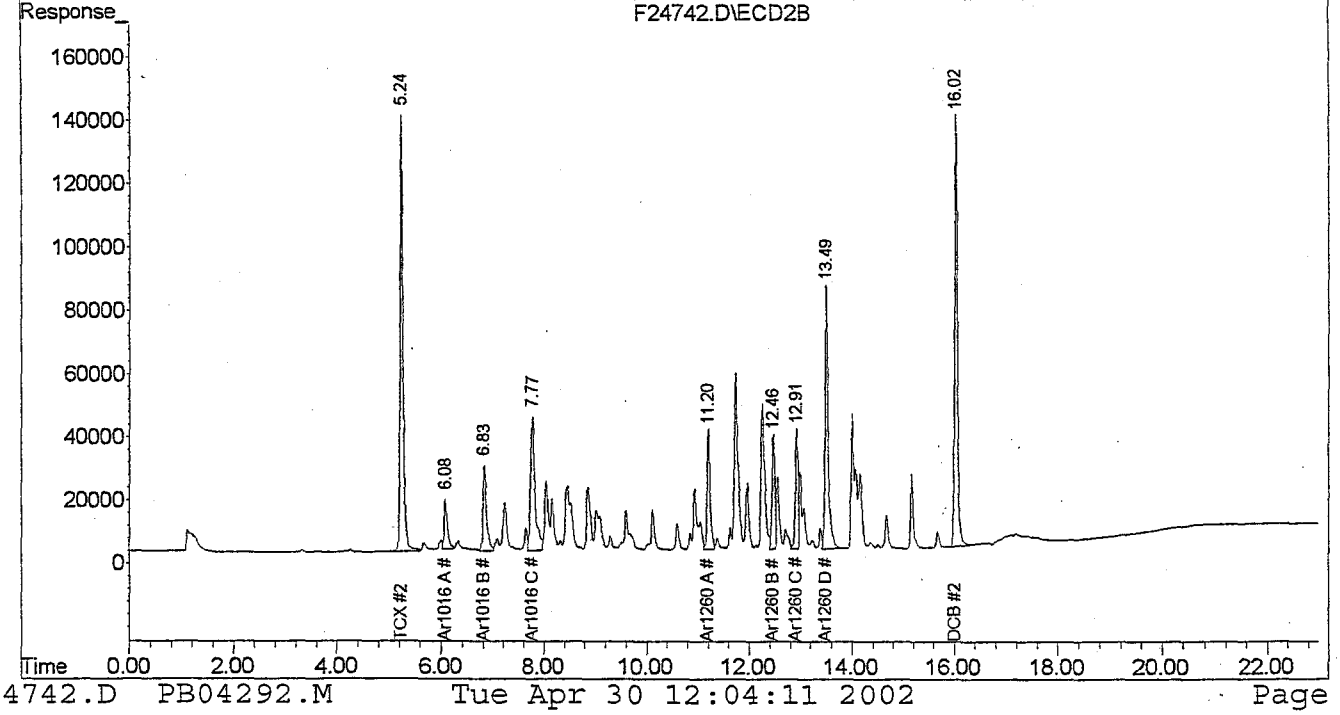
Quantitation Report (QT Reviewed)

Signal #1 : D:\HPCHEM\2\DATA\042902-F\F24742.D\ECD1A.CH Vial: 18
Signal #2 : D:\HPCHEM\2\DATA\042902-F\F24742.D\ECD2B.CH
Acq On : 29 Apr 2002 6:03 pm Operator:
Sample : P2596 16/60 0.5 Inst : Instrume
Misc : Multiplr: 1.00
IntFile Signal #1: PCBINT.E IntFile Signal #2: PCBINT2.E
Quant Time: Apr 30 12:01 2002 Quant Results File: PB04292.RES

Quant Method : D:\HPCHEM\2\METHODS\PB04292.M (Chemstation Integrator)
Title : Aroclor 1016/1260
Last Update : Tue Apr 30 11:57:04 2002
Response via : Multiple Level Calibration
DataAcq Meth : PEST.M

Volume Inj. : 3 ul
Signal #1 Phase : DB-1701 Widebore Signal #2 Phase: DB-5 Widebore
Signal #1 Info : 0.53 mm , 1.0um f Signal #2 Info : 0.53 mm, 1.5um fil





Quantitation Report (QT Reviewed)

Signal #1 : D:\HPCHEM\2\DATA\042902-F\F24743.D\ECD1A.CH Vial: 19
Signal #2 : D:\HPCHEM\2\DATA\042902-F\F24743.D\ECD2B.CH
Acq On : 29 Apr 2002 6:30 pm Operator:
Sample : P2597 16/60 1.0 Inst : Instrume
Misc : Multiplr: 1.00
IntFile Signal #1: PCBINT.E IntFile Signal #2: PCBINT2.E
Quant Time: Apr 30 11:57 2002 Quant Results File: PB04292.RES

Quant Method : D:\HPCHEM\2\METHODS\PB04292.M (Chemstation Integrator)
Title : Aroclor 1016/1260
Last Update : Tue Apr 30 11:57:04 2002
Response via : Initial Calibration
DataAcq Meth : PEST.M

4-30-02

Volume Inj. : 3 ul
Signal #1 Phase : DB-1701 Widebore Signal #2 Phase: DB-5 Widebore
Signal #1 Info : 0.53 mm , 1.0um f Signal #2 Info : 0.53 mm, 1.5um fil

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/ml	ug/ml
System Monitoring Compounds						
1) S TCX	6.27	5.25	6525164	9345533	0.211	0.233
Spiked Amount	0.100	Range	46 - 122	Recovery	= 211.00%#	233.00%#
9) S DCB	18.16	16.02	5223072	9131403	0.226	0.222
Spiked Amount	0.100	Range	26 - 86	Recovery	= 226.00%#	222.00%#
Target Compounds						
2) L1 Ar1016 A	7.45	6.08	825820	1395996	1.080	1.184
3) L1 Ar1016 B	8.35	6.83	1612221	2332251	1.059	1.175
4) L1 Ar1016 C	9.31	7.78	3192262	4956959	1.095	1.329
Sum Ar1016 A			5630303	8685206	3.234	3.689
Average Ar1016 A					1.078	1.230
5) L2 Ar1260 A	12.71	11.21	1014402	2672602	1.098	1.184
6) L2 Ar1260 B	13.01	12.47	1963681	2441144	1.080	1.127
7) L2 Ar1260 C	13.42	12.92	2256985	2458102	1.084	1.162
8) L2 Ar1260 D	14.27	13.50	1736985	6536302	1.101	1.141
Sum Ar1260 A			6972054	14108150	4.363	4.615
Average Ar1260 A					1.091	1.154

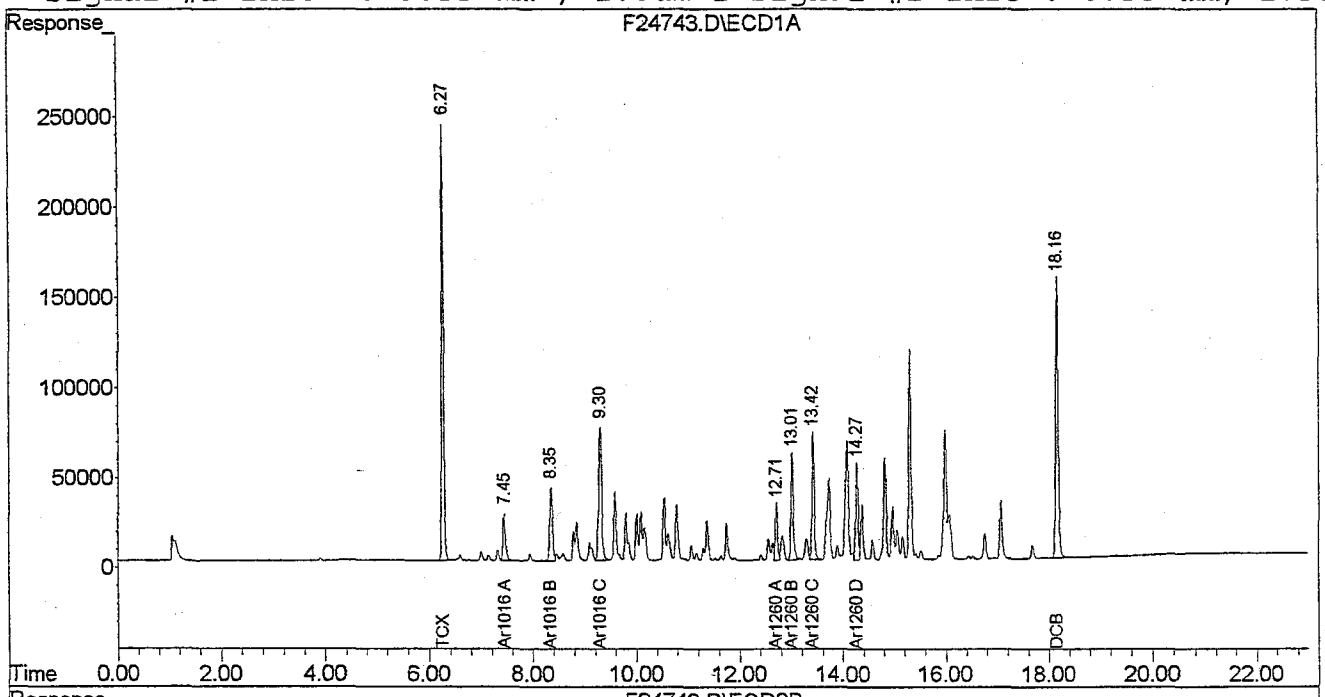
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

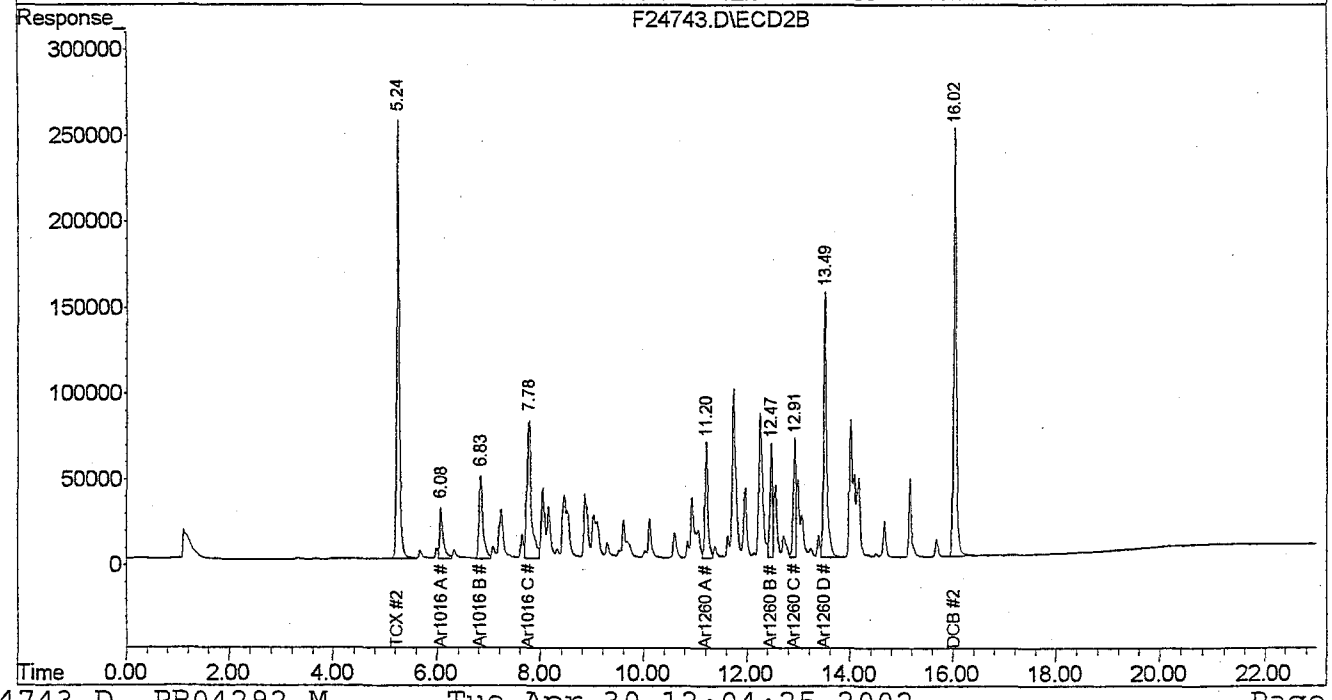
Quantitation Report (QT Reviewed)

Signal #1 : D:\HPCHEM\2\DATA\042902-F\F24743.D\ECD1A.CH Vial: 19
Signal #2 : D:\HPCHEM\2\DATA\042902-F\F24743.D\ECD2B.CH
Acq On : 29 Apr 2002 6:30 pm Operator:
Sample : P2597 16/60 1.0 Inst : Instrume
Misc : Multiplr: 1.00
IntFile Signal #1: PCBINT.E IntFile Signal #2: PCBINT2.E
Quant Time: Apr 30 11:57 2002 Quant Results File: PB04292.RES

Quant Method : D:\HPCHEM\2\METHODS\PB04292.M (Chemstation Integrator)
Title : Aroclor 1016/1260
Last Update : Tue Apr 30 11:57:04 2002
Response via : Multiple Level Calibration
DataAcq Meth : PEST.M

Volume Inj. : 3 ul
Signal #1 Phase : DB-1701 Widebore Signal #2 Phase: DB-5 Widebore
Signal #1 Info : 0.53 mm , 1.0um f Signal #2 Info : 0.53 mm, 1.5um fil





analytics environmental laboratory LLC

7A
PCB CONTINUING CALIBRATION CHECK

Site ID: Brunswick, ME

Project No.: CTO 3, Task 3 GC Column #1: RTX-CLP Pesticides I Data Package ID: 47552

Instrument ID: F GC Column #2 : RTX-CLP Pesticides II ID: 0.53 mm

File #: F25193 Cal. Check Date: 5/30/02 22:22

COMPOUND	True Value (ug/mL)	Measured Value (ug/mL)	% Recovery	Limits %R	Total Out
PCB 1016	0.50	0.525	105	85-115	0
PCB1260	0.50	0.530	106	85-115	0
PCB 1016#2	0.50	0.529	106	85-115	0
PCB 1260 #2	0.50	0.548	110	85-115	0

analytics environmental laboratory LLC

7A

PCB CONTINUING CALIBRATION CHECK

Site ID: Brunswick, ME

Project No.: CTO 3, Task 3 GC Column #1: RTX-CLP Pesticides I Data Package ID: 47552

Instrument ID: F GC Column #2 : RTX-CLP Pesticides II ID: 0.53 mm

File #: F25207 Cal. Check Date: 5/31/02 8:31

COMPOUND	True Value (ug/mL)	Measured Value (ug/mL)	% Recovery	Limits %R	Total Out
PCB 1016	0.50	0.521	104	85-115	0
PCB1260	0.50	0.528	106	85-115	0
PCB 1016#2	0.50	0.501	100	85-115	0
PCB 1260 #2	0.50	0.541	108	85-115	0

analytics environmental laboratory LLC

PCB SOIL
SYSTEM MONITORING COMPOUND RETENTION TIME SUMMARY

Quote#: SDG: 47552

Project No: CTO 3, Task 3 Site ID: Brunswick Location: Maine

GC Columns: RTX-CLPesticidesI ID: 0.53(mm)
Instrument ID: E RTX-CLPesticidesII

Date Analyzed: 5/30/02
Lab File ID (Standard) : F25193 Time Analyzed: 22:22

	COLUMN #1		COLUMN #1	
	SMC1	SMC 2	SMC1	SMC 2
PESTICIDE STANDARD	6.18	18.05	5.15	15.91
UPPER LIMIT	6.21	18.09	5.18	15.95
LOWER LIMIT	6.15	18.01	5.12	15.87

	SAMPLE ID	LAB FILE ID	DATE	TIME	COLUMN #1 SMC1	#	COLUMN #1 SMC 2	#	COLUMN #2 SMC1	#	COLUMN #2 SMC 2	#
01	P2596 16/60 0.5	F25193.D	05/30/02	22:22	6.18		18.05		5.15		15.91	
02	B05302PAS	F25196.D	05/30/02	23:41	6.17		18.05		5.15		15.92	
03	L05302PAS	F25197.D	05/31/02	0:08	6.18		18.05		5.15		15.92	
04	LD05302PAS	F25198.D	05/31/02	0:34	6.18		18.05		5.16		15.92	
05	47552-1	F25199.D	05/31/02	1:01	6.18		18.05		5.15		15.92	
06	47552-2	F25200.D	05/31/02	1:27	6.18		18.05		5.15		15.92	
07	47552-3	F25201.D	05/31/02	1:54	6.18		18.05		5.16		15.92	
08	47552-4	F25202.D	05/31/02	2:20	6.18		18.05		5.16		15.92	
09	47552-5	F25203.D	05/31/02	2:47	6.18		18.05		5.16		15.92	
10	47552-6	F25204.D	05/31/02	3:13	6.18		18.05		5.16		15.92	
11	47552-6 MS	F25205.D	05/31/02	3:40	6.18		18.05		5.16		15.92	
12	47552-6 MSD	F25206.D	05/31/02	4:06	6.18		18.05		5.15		15.92	
13	P2596 16/60 0.5	F25207.D	05/31/02	8:31	6.22	*	18.08		5.18		15.94	
14												
15												
16												
17												
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34												
35												

analytics environmental laboratory LLC

195 Commerce Way Suite E
Portsmouth, NH 03801
Phone (603) 436-5111
Fax (603) 430-2151

For Analytics Use Only Rev 2/00

Samples were:
1) Shipped or hand-delivered
2) Temp blank °C 3.2
3) Received in good condition (Y) or N
4) pH checked by: n/a
5) Labels checked by: CMR05130102

Project#: CTO3, task 3 Proj. Name: Brunswick

Company: FOSTER WHEELER ENVIRONMENTAL CORP.

Contact: Josh Holder

Address: PNSY, Bld 337 | PO Box 660, Kittery, ME 03904

Phone: 207-451-9751 PO# 048623 Quote #

Sampler (Signature): Josh Holder

Matrix Key:
WW=Wastewater
SW=Surfacewater
GW=Groundwate
DW=Drinkingwater
S=Soil/Sludge
O=Oil
E=Extract
X=Other

Container Key
P=plastic G=glass

Station Identification	Sample Date	Sample Time	Analysis	Unpres	4°C	HNO_3	H_2SO_4	HCL	Other	Matrix	Container number/type		pH	Analytics Sample #
PAD-01	5/30	1130	PCB		X					S	1	G		47552-1
PAD-02		1150												2
CA-01		1200												3
CA-02		1205												4
CB-01		1215												5
CB-02	5/30	1225	PCB		X					S	1	G		6

FAX RESULTS? (YES) NO
Fax # 207-451-9769

Turnaround Request
Standard ☐ Due Date
Priority ☒ 24 hr Due Date

Comments / Instructions:

Client Code:

Page 1 of 1

Received By: Time: 400 PM Date: 5/30/02
Received By: Time: Date:
Received By: Time: Date:
Relinquished By Sampler: Josh Holder
Relinquished By:
Relinquished By:

Analytics\AEL Documents\AEL COC

ANALYTICS SAMPLE RECEIPT CHECKLIST

AEL LAB#: 47552 COOLER NUMBER: ——

CLIENT: Foster Wheeler NUMBER OF COOLERS: 1

PROJECT: Brunswick DATE RECEIVED: 5/30/02

A: PRELIMINARY EXAMINATION: DATE COOLER OPENED: 5/30/02

1. Cooler received by(initials) ~~AB~~ AMB Date Received: 5-30-02
2. Did cooler come with a shipping slip? Y (N)

If YES, enter carrier name and airbill number here: Hand delivered

3. Were custody seals on the outside of cooler? Y N
How many & where: NA Seal Date: _____ Seal Name: _____

4. Did the custody seals arrive unbroken and intact upon arrival? Y (NA)

5. COC#: N/A

6. Were Custody papers filled out properly (ink,signed, etc)? (Y) N

7. Were custody papers sealed in a plastic bag? (Y) N

8. Did you sign the COC in the appropriate place? (Y) N

9. Was the project identifiable from the COC papers? (Y) N

10. Was enough ice used to chill the cooler? (Y) N Temp. of cooler: 3.2°C

B. Log-In: Date samples were logged in: 5-30-02 By: amb

11. Type of packing in cooler (bubble wrap, popcorn) Y N

12. Were all bottles sealed in separate plastic bags? Y (N)

13. Did all bottles arrive unbroken and were labels in good condition? (Y) N

14. Were all bottle labels complete(ID,Date,time,etc.) (Y) N

15. Did all bottle labels agree with custody papers? (Y) N

16. Were the correct containers used for the tests indicated: (Y) N

17. Were samples received at the correct pH? Y (NA)

18. Was sufficient amount of sample sent for the tests indicated? (Y) N

19. Were bubbles absent in VOA samples? Y (NA)

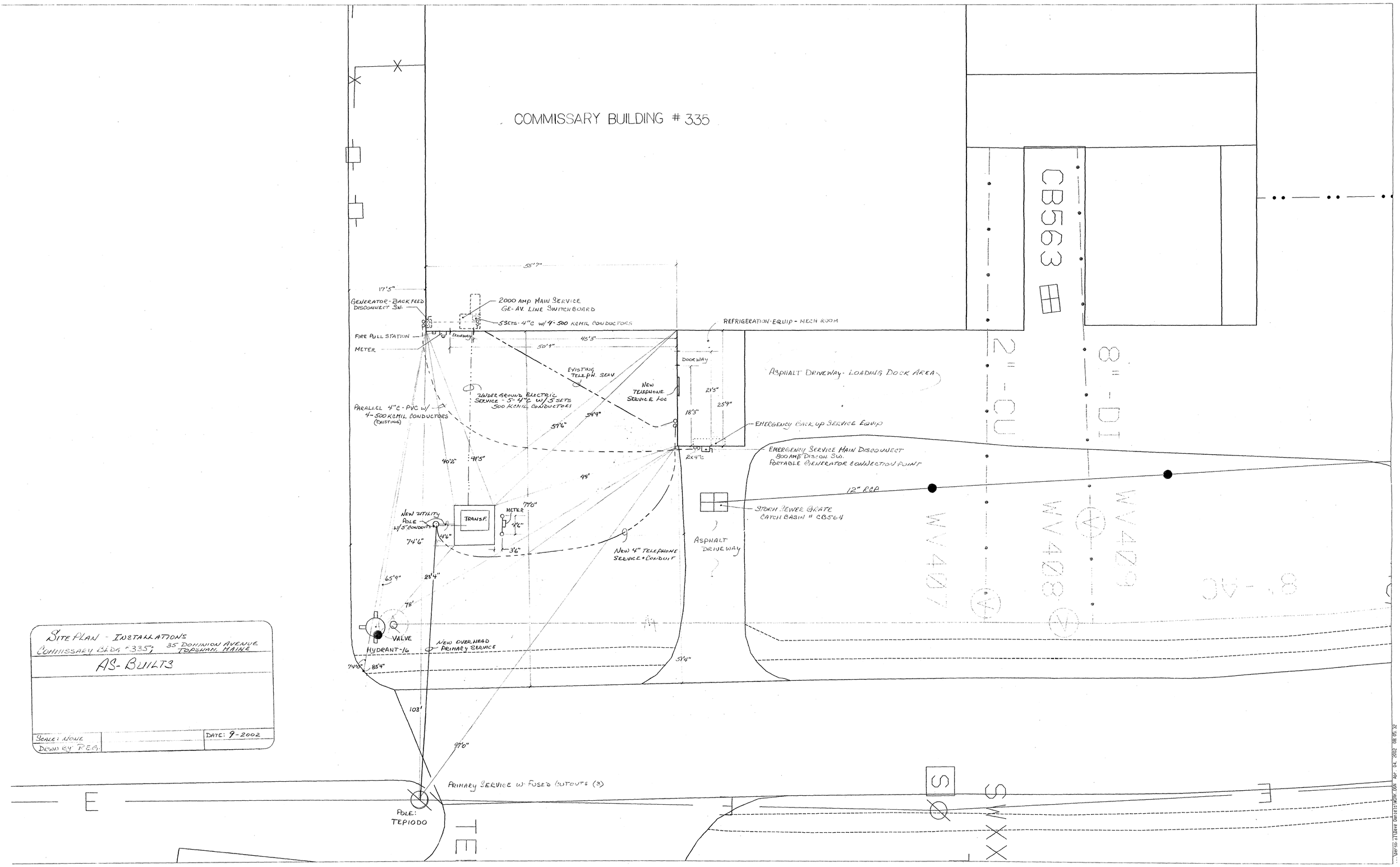
If NO, List sample #'s: _____

20. Laboratory labeling verified by (initials): AL Date: 5/30/02
Transcribed from COC.

C:ANLYTICS LLC\AEL DOCUMENTS\FORMS\SMPL CHKLST

Appendix B

As-Built Relocated Utilities Drawing


COMMISSARY BUILDING # 335
55'7"
17'5"
GENERATOR-BACK FEED DISCONNECT SW.
2000 AMP MAIN SERVICE GE-AV. LINE SWITCHBOARD
5 SETS - 4"C w/ 4-500 KCMIL CONDUCTORS
REFRIGERATION-EQUIP - MECH ROOM
FIRE PULL STATION
METER
DOORWAY
45'3"
50'9"
DOOR WAY
EXISTING TELEPH. SERV
NEW TELEPHONE SERVICE LOC
21'5"
25'9"
18'3"
ASPHALT DRIVEWAY - LOADING DOCK AREA
UNDERGROUND ELECTRIC SERVICE - 5-4"C w/ 5 SETS 500 KCMIL CONDUCTORS
PARALLEL 4"C - PVC w/ 4-500 KCMIL CONDUCTORS (EXISTING)
54'9"
57'6"
EMERGENCY BACK UP SERVICE EQUIP
EMERGENCY SERVICE MAIN DISCONNECT 800 AMP DISCON SW. PORTABLE GENERATOR CONNECTION POINT
2X4"C
40'2"
41'5"
44'
12" RCP
STORM SEWER GRATE CATCH BASIN # CB564
NEW UTILITY POLE w/ 5 CONDUITS
TRANSF.
METER
77'6"
4'6"
4'6"
3'6"
74'6"
NEW 4" TELEPHONE SERVICE + CONDUIT
ASPHALT DRIVEWAY
65'9"
28'4"
78'
VALVE
HYDRANT-16
NEW OVERHEAD PRIMARY SERVICE
74'10"
85'4"
57'4"
103'
97'6"
PRIMARY SERVICE w/ FUSED CUTOUTS (3)
POLE: TEPIODO
CB563
2'-0"
8'-0"
8'-4"
WV4007
WV4008
WV4009
SITE PLAN - INSTALLATIONS
COMMISSARY BLDG #335
35 DOMINION AVENUE TOPSHAM, MAINE
AS-BUILTS
SCALE: NONE
DATE: 9-2002
DRWN BY: P.E.G.

Appendix C

Immunoassay Sample Results

IMMUNASSAY SAMPLES

PCB SOILS

COMMISSARY ANNEX
BRUNSWICK, ME

8-19-02 BATCH 1. 0-3" DEEP - 4' FROM PAD EDGE

Sample #	WT. (grams)	Result (PPM)
N-1-01	10.1	>10
N-2-01	10.0	>10
N-3-01	10.0	>10
N-4-01		>10
N-5-01		>10
N-6-01		>10
N-7-01	10.0	4.6
E-1-01	10.0	7.8
E-2-01	10.0	6.0
E-3-01	10.1	>10
E-4-01	10.0	4.4
E-5-01	10.0	5.8
E-6-01	10.1	4.0
E-7-01	10.0	1.9
S-1-01	10.0	3.2
S-2-01		>10
S-3-01		8.4
S-4-01		>10
S-5-01		>10
S-6-01	10.1	>10
S-7-01	10.1	>10
W-1-01	10.0	>10
W-2-01	10.0	>10
W-3-01		>10
W-4-01		>10
W-5-01		>10
W-6-01	10.0	>10

22-141 50 SHEETS
22-142 100 SHEETS
22-144 200 SHEETS
AMPAD

8-19-02 BATCH 2 1'-2' Depth; 3'-4' From Pad Edge.

	Sample	WT (grams)	Result (PPM)	
1	N-1-1-2	10.0	>1	
2	N-2-1-2	10.0	5.0	
3	N-3-1-2	10.0	4.6	
4	N-4-1-2	10.1	2.8	
5	N-5-1-2	10.0	3.6	
6	N-6-1-2	10.0	5.6	
7	N-7-1-2	10.0	1.2	
8	E-1-1-2	10.0	<1	
9	E-2-1-2		<1	
10	E-3-1-2		<1	
11	E-4-1-2		9.6	Re Run
12	E-5-1-2		<1	
13	E-6-1-2		<1	
14	E-7-1-2	10.0	<1	
15	S-1-1-2	10.0	2.2	
16	S-2-1-2		<1	
17	S-3-1-2		<1	
18	S-4-1-2		<1	
19	S-5-1-2		<1	
20	S-6-1-2		<1	
21	S-7-1-2	10.0	<1	
22	W-1-1-2	10.0	<1	
23	W-2-1-2	10.1	1.5	
24	W-3-1-2	10.0	<1	
25	W-4-1-2		<1	
26	W-5-1-2		4.8	
27	W-6-1-2	10.0	<1	

22-141 50 SHEETS
22-142 100 SHEETS
22-144 200 SHEETS
AMPAD

8-21-02 BATCH 1. 1'-2' DEEP; 6' FROM PAD EDGE

	Sample #		WT (GRAM)	Result (PPM)
1	N-1-03		10.0	1.8
2	N-2-03			<1
3	N-3-03			2.0
4	N-4-03			7.4
5	N-5-03			<1
6	N-6-03			<1
7	N-7-03		10.0	<1
8	W-1-03		10.0	<1
9	W-2-03			2.2
10	W-3-03			<1
11	W-4-03			1.02
12	W-5-03			<1
13	W-6-03			<1
14	W-7-03			<1
15	W-8-03			<1
16	W-9-03		10.0	<1
			0"-3"; 6' FROM PAD EDGE	
17	S-1-04		10.0	7.2
18	S-2-04			4.6
19	S-3-04			>10
20	S-4-04			6.0
21	S-5-04			3.6
22	S-6-04			2.6
23	S-7-04			6.4
24	S-8-04			>10
25	N-1-04			7.4
26	E-4-1-2	RERUN	10.0	9.2

22-141 50 SHEETS
22-142 100 SHEETS
22-144 200 SHEETS
AMPAD

Samples:

8-21-02 BATCH 2 0"-3" Deep; 6' From Pad Edge

	Sample #	WT (grams)	Result (PPM)
1	N-2-04	10.0	>10
2	N-3-04		>10
3	N-4-04		>10
4	N-5-04		>10
5	N-6-04		>10
6	N-7-04	10.0	>10
7	W-1-04	10.0	8.0
8	W-2-04		>10
9	W-3-04		>10
10	W-4-04		>10
11	W-5-04		>10
12	W-6-04		>10
13	W-7-04		9.8
14	W-8-04		2.4
15	W-9-04	10.0	4.4
16	E-1-04	10.0	<1
17	E-2-04		1.08
18	E-3-04		<1
19	E-4-04		<1
20	E-5-04		<1
21	E-6-04		<1
22	E-7-04		<1
23	E-8-04		1.94
24	E-9-04	10.0	<1
25	E-4 1'-2'	10.0	<1

22-141 50 SHEETS
22-142 100 SHEETS
22-144 200 SHEETS
AMPAD

Samples:

8-22-02 BATCH 3 Various Depths approx 11' From Pad Edge

	Sample #		wt. (gram)	Result (PPM)
1	W-2-10	0"-3"	10.08	2.8
2	W-4-10	Deep"	|	14
3	W-9-10	"	10.08	6.4
4	S-2-09	1'-2' Deep	10.08	<1
5	S-4-09	"	|	<1
6	S-9-09	"	10.08	<1
7	N-1-10	3'-4' Deep	10.08	<1
8	N-4-10	"	10.08	3.4
9	N-5-10	2'-3' Deep	10.08	3.2
10	N-7-10	"	10.08	1.2

22-141 50 SHEETS
22-142 100 SHEETS
22-144 200 SHEETS
AMPAD

SAMPLES

1'-2' Deep; 8' from PAD EDGE.

8-22-02 BATCH 1.

		WT. (grams)	Results: (PPM)
1	S-1-05	10.0g	<1
2	S-2-05		<1
3	S-3-05		<1
4	S-4-05		<1
5	S-5-05		<1
6	S-6-05		<1
7	S-7-05		<1
8	S-8-05		<1
9	S-9-05	10.0g	<1
10	W-2-06	10.0g	<1
11	W-4-06		<1
12	W-6-06		<1
13	W-8-06		<1
14	W-9-06	10.0g	<1
15	N-1-06	10.0g	<1
16	N-3-06		<1
17	N-5-06		7.0
18	N-7-06		6.0
19	N-8-06		<1
20	N-1-07 2'-3' Dp		1.32
21	N-3-07 "		<1
22	N-4-07 "	10.0g	6.4

BATCH 2 0"-3" DEPTH.

1	S-2-08	10.0g	1.6
2	S-4-08		1.2
3	S-6-08		<1
4	S-7-08		<1
5	S-8-08		<1
6	S-9-08		15.0
7	W-2-08		1.25
8	W-4-08		1.25
9	W-6-08		<1
10	W-8-08		<1
11	W-9-08	10.0g	2.2

22-141 50 SHEETS
22-142 100 SHEETS
22-144 200 SHEETS
AMPAD

6/29/02

0-3"		Batch 1 ppm
N-1 - 01	10.1	>10
N-2 - 01	10.0	>10
N-3 - 01		>10
N-4 - 01		>10
N-5 - 01		>10
N-6 - 01		>10
N-7 - 01		4.8
E-1 - 01		7.8
E-2 - 01		6.0
E-3 - 01	10.1	>10
E-4 - 01	10.0	4.4
E-5 - 01	10.0	5.8
E-6 - 01	10.1	4.0
E-7 - 01	10.0	1.9
S-1 - 01		3.2
S-2 - 01		>10
S-3 - 01		8.4
S-4 - 01		>10
S-5 - 01		
S-6 - 01	10.1	
S-7 - 01	10.1	
W-1 - 01	10.0	
W-2 - 01	10.0	

4' From EDGE

W-3-01[illegible]	4' from PAD EDGE	10.0	7.0
W-4-01[illegible]			
W-5-01[illegible]			
W-6-01[illegible]			

8/19/02 199.9g Batch 2

(69)

1'-2'

1	N-1-Φ-2	10.0	>1
2	N-2-Φ-2	10.0	5.0
3	N-3-Φ-2	10.0	4.6
4	N-4-Φ-2	10.1	2.8
5	N-5-Φ-2	10.0	3.6
6	N-6-Φ-2	10.0	5.6
7	N-7-Φ-2	10.0	1.2
8	E-1-Φ-2	10.0	<1
9	E-2-Φ-2	10.0	<1
10	E-3-Φ-2	10.0	<1
11	E-4-Φ-2	10.0 Re-Run	9.6 Save
12	E-5-Φ-2	10.0	<1
13	E-6-Φ-2	10.0	<1
14	E-7-Φ-2	10.0	<1
15	S-1-Φ-2	10.0	2.2
16	S-2-Φ-2	10.0	<1
17	S-3-Φ-2	10.0	<1
18	S-4-Φ-2	10.0	<1
19	S-5-Φ-2	10.0	<1
20	S-6-Φ-2	10.0	<1
21	S-7-Φ-2	10.0	<1
22	W-1-Φ-2	10.0	<1
23	W-2-Φ-2	10.1	1.5

3'-4' From Pad Edge

24	W-3-Φ-2	4' FROM PAD EDGE	10.0	<1
25	W-4-Φ-2		10.0	<1
26	W-5-Φ-2		10.0	4.8
27	W-6-Φ-2		10.0	<1
~~28~~	~~W-7-Φ-2~~			

199.8g = 8/20/02
200.0g = 8/21/02

Batch 1 8/21/02

			1'-2'	Result (ppm)
1	N-1-03	10.0		~~1.70~~ 1.8
2	N-2-03			<1
3	N-3-03			2.0
4	N-4-03			7.4
5	N-5-03			<1
6	N-6-03			~~0.30~~ <1
7	N-7-03			<1
8	W-1-03			<1
9	W-2-03			2.2
10	W-3-03			<1
11	W-4-03			1.02
12	W-5-03			<1
13	W-6-03			<1
14	W-7-03			<1
15	W-8-03			<1
16	W-9-03			<1
17	S-1-04	10.0	0-3"	7.2
18	S-2-04	10.0		4.6
19	S-3-04	10.0		>10
20	S-4-04	10.0		6.0
21	S-5-04	10.0		3.6
22	S-6-04	10.0		2.6
23	S-7-04	10.0		6.4

6' from Pad Edge

6' from Pad Edge

0-3"

24	S-8-04	10.0	>10
25	N-1-04	10.0	7.4
26	E-4-1-2		9.2

6' from Pad Edge

Batch 2 8/21/02

0-3"

1	N-2-04	10.0	>10
2	N-3-04	10.0	>10
3	N-4-04	10.0	>10
4	N-5-04	10.0	>10
5	N-6-04	10.0	>10
6	N-7-04	10.0	>10
7	W-1-04	10.0	8.0
8	W-2-04	10.0	>10
9	W-3-04		>10
10	W-4-04		>10
11	W-5-04		>10
12	W-6-04		>10
13	W-7-04		9.8
14	W-8-04		2.4
15	W-9-04		4.4
16	E-1-04	10.0	<1
17	E-2-04	10.0	1.08
18	E-3-04	10.0	<1
19	E-4-04	10.0	<1
20	E-5-04	10.0	<1
21	E-6-04	10.0	<1
22	E-7-04	10.0	<1
23	E-8-04	10.0	1.94

6' from EDGE

24	E-9-04	10.0	<1
25	11 Re-run	E-4 (1-2') 10.0	<1

8/22/02	Batch 1 (1'-2')	(200.1g) Results
1-S-1-05	10g	<1
2-S-2-05	10g	<1
3-S-3-05	10g	<1
4-S-4-05	10g	<1
5-S-5-05	10g	<1
6-S-6-05	10g	<1
7-S-7-05	10g	<1
8-S-8-05	10g	<1
9-S-9-05	10g	<1
10-W-2-06	10g	<1
11-W-4-06	10g	<1
12-W-6-06	10g	<1
13-W-8-06	10g	<1
14-W-9-06	10g	<1
15-N-1-06	10g	<1
16-N-3-06	10g	<1
17-N-5-06	10g	7.0 -
18-N-7-06	10g	6.0 -
19-N-8-06	10g	<1
20 N-1-07 (2'-3')	10g	1.32 -
21 N-3-07	10g	<1
22N-4-07	10g	6.4 -

8/22/02 Batch 2

8 ml

	(0-3")	Results
1-S-2-08	10g	1.6
2-S-4-08	10g	1.2
3-S-6-08	10g	<1
4-S-7-08	10g	<1
5-S-8-08	10g	<1
6-S-9-08	10g	15.0
7-W-2-08	10g	1.25
8-W-4-08	10g	1.25
9-W-6-08	10g	<1
10-W-8-08	10g	<1
11-W-9-08	10g	2.2

Batch 3 8/22/02

			Results
1-W-2-10	10g	0-3"	2.8
2-W-4-10	10g	↓	14
3-W-9-10	10g	↓	6.4
4-S-2-09	10g	1-2'	<1
5-S-4-09	10g	↓	<1
6-S-9-09	10g	↓	<1
7-N-1-10	10g	3-4'	<1
8-N-4-10	10g	↓	3.4
9-N-5-10	10g	2-3'	3.2
10-N-7-10	10g	↓ petroleum smell	1.2

Please Wait 30 Minutes
08-20-02 04:42:28

******** OHMICRON ********

Please Wait 30 Minutes
08-20-02 04:42:37

08-20-02 06:21:07

Batch (1) 8/19/02 Prep-date

******** OHMICRON ********

PROTOCOL : PCB

TECH ID :
LOT # :
EXP DATE:

Data Reduct: Lin.Regression
Xformation: Ln/LgtB
Read Mode : Absorbance
Wavelength : 450 nm
Units : PPB

EQUATION OF LINE :

Slope = -0.921
Intercept = 0.458
Corr (r) = 0.9995

Transformed Data :

Conc	Abs
-1.39	1.763
0.00	0.406
1.61	-1.001

Calibrator Data:

Conc	Abs Diff	%CV	Predic %Diff
0.00	1.865		
	1.846		
Mean	1.855	0.7	
0.25	1.635		0.19
	-0.064		-34.2
	1.532		0.30
	0.054		17.7
Mean	1.584	4.6	0.24
	-0.007		-3.1
1.00	1.135		1.00
	0.004		0.4
	1.092		1.11
	0.115		10.3
Mean	1.113	2.7	1.06
	0.058		5.5
5.00	0.509		4.73
	-0.270		-5.7
	0.489		5.02
	0.019		0.4
Mean	0.499	2.8	4.87
	-0.129		-2.6

Control Data :

Ctrl#	Abs	Conc
1	0.647	3.24

ID:

Samples Data :

Spl#	Abs	Conc	ID
1	0.323	8.90Hi	N-1-01 >110
2	0.225	14.09Hi	N-2-01 >10
3	0.145	23.97Hi	N-3-01 >10
4	0.134	26.33Hi	N-4-01 >10
5	0.228	13.84Hi	N-5-01 >10
6	0.430	6.04Hi	N-6-01 >10
7	0.774	2.36	N-7-01 >1
8	0.581	3.86	E1-01 >1
9	0.684	2.95	E-2-01 >1
10	0.146	23.81Hi	E-3-01 >10
11	0.809	2.18	E-4-01 >1
12	0.687	2.93	E-5-01 >1
13	0.836	2.04	E-6-01 >
14	1.154	0.96	E-7-01
15	0.937	1.61	S-1-01 >1
16	0.435	5.93Hi	S-2-01 >10
17	0.547	4.24	S-3-01 >1
18	0.296	9.98Hi	S-4-01 >10
19	0.276	10.91Hi	S-5-01 >10
20	0.201	16.24Hi	S-6-01 >10
21	0.094	39.60Hi	S-7-01 >10
22	0.172	19.56Hi	W-1-01 >10
23	0.127	27.87Hi	W-2-01 >10
24	0.190	17.32Hi	W-3-01 >10
25	0.133	26.51Hi	W-4-01 >10
26	0.138	25.27Hi	W-5-01 >10
27	0.182	18.23Hi	W-6-01 >10
28	0.626	3.42	Control

END OF RUN
08-20-02 06:57:53

08-20-02 09:27:22

******** OHMICRON ********

PROTOCOL : PCB

TECH ID :
LOT # :
EXP DATE:

Data Reduct: Lin. Regression
Xformation: Ln/LgtB
Read Mode : Absorbance
Wavelength : 450 nm
Units : PPB

EQUATION OF LINE :

Slope = -0.910
Intercept = 0.488
Corr (r) = 0.9986

Transformed Data :

Conc	Abs
-1.39	1.794
0.00	0.403
1.61	-0.938

Batch 2
8/19/02
Prep date

Calibrator Data:

Conc	Abs Diff	%CV	Predic %Diff
0.00	1.918		
	1.877		
Mean	1.898	1.5	
0.25	1.651		0.21
	-0.039		-18.5
	1.603		0.27
	0.016		5.9
Mean	1.627	2.1	0.24
	-0.012		-5.1
1.00	1.132		1.11
	0.111		10.0
	1.143		1.08
	0.083		7.7
Mean	1.138	0.6	1.10
	0.097		8.8
5.00	0.546		4.63
	-0.370		-8.0
	0.522		4.96
	-0.042		-0.8
Mean	0.534	3.2	4.79
	-0.210		-4.4

Control Data :

Ctrl#	Abs	Conc
1	0.679	3.25

ID:

Samples Data :

Spl#	Abs	Conc	ID
1	1.190	0.97	N-1-02 1.9
2	0.782	2.52	N-2-02 5.0
3	0.813	2.34	N-3-02 4.7
4	1.022	1.44	N-4-02 2.9
5	0.936	1.76	N-5-02 3.5
6	0.736	2.82	N-6-02 5.6
7	1.347	0.64	N-7-02 1.3
8	1.678	0.18	E-1-02 0.36
9	1.815	0.06nd	E-2-02 <0.5
10	1.635	0.23	E-3-02 0.46
11	0.532	4.81	E-4-02 9.6
12	1.892	0.00nd	E-5-02 <0.5
13	1.923	nd	E-6-02 <0.5
14	1.835	0.04nd	E-7-02 <0.5
15	1.145	1.08	S-1-02 2.2
16	1.651	0.21	S-2-02 0.42
17	1.529	0.36	S-3-02 0.72
18	1.873	0.01nd	S-4-02 <0.5
19	1.935	nd	S-5-02 <0.5
20	1.942	nd	S-6-02 <0.5
21	1.951	nd	S-7-02 <0.5
22	1.594	0.28	W-1-02 0.56
23	1.289	0.75	W-2-02 1.5
24	1.659	0.20	W-3-02 0.40
25	1.589	0.28	W-4-02 0.56
26	0.799	2.43	W-5-02 4.9
27	1.697	0.16	W-6-02 0.32
28	0.657	3.44	Control

17 0.728 3.61
ID: S-1-04 7.2

18 0.963 2.27
ID: S-2-04 4.5

19 0.403 7.98Hi
ID: S-3-04 >10

20 0.832 2.93
ID: S-4-04 5.9

21 1.070 1.84
ID: S-5-04 3.7

22 1.255 1.28
ID: S-6-04 2.6

23 0.792 3.17
ID: S-7-04 6.3

24 0.557 5.29Hi
ID: S-8-04 >10

25 0.715 3.72
ID: N-1-04 7.4

26 0.610 4.67
ID: E-4-1-2 9.3

27 0.750 3.46
ID: Control

28 0.784 3.22
ID: Control

END OF RUN
08-21-02 12:29:50

Samples Data :

Spl#	Abs	Conc	
1	1.430	0.88	
ID: N-1-03		1.8 ✓	
2	2.057	nd	
ID: N-2-03		<0.5 ✓	
3	1.362	1.02	2.0 ✓
ID: N-3-03			
4	0.723	3.65	
ID: N-4-03		7.3	
5	1.983	0.06nd	
ID: N-5-03		<0.5	
6	1.906	0.15	
ID: N-6-03		0.30	
7	1.877	0.18	
ID: N-7-03		0.36	
8	1.801	0.28	
ID: W-1-03		0.56	
9	1.332	1.09	
ID: W-2-03		2.2	
10	1.834	0.23	
ID: W-3-03		0.46	
11	1.641	0.51	
ID: W-4-03		1.0	
12	1.664	0.47	
ID: W-5-03		0.94	
13	1.917	0.13	
ID: W-6-03		0.26	
14	2.044	nd	
ID: W-7-03		<0.5	
15	2.012	0.02nd	
ID: W-8-03		<0.5	
16	2.050	nd	
ID: W-9-03		<0.5	

******** OHMICRON ********

Please Wait 30 Minutes
08-21-02 09:56:02

08-21-02 12:24:10

******** OHMICRON ********

PROTOCOL : PCB

TECH ID :
LOT # :
EXP DATE:

Data Reduct: Lin.Regression
Xformation: Ln/LgtB
Read Mode : Absorbance
Wavelength : 450 nm
Units : PPB

Batch 1 8/21/02 6' trompad

EQUATION OF LINE :

Slope = -1.025
Intercept = 0.733
Corr (r) = 0.9913

Transformed Data :

Conc	Abs
-1.39	2.281
0.00	0.497
1.61	-0.808

Calibrator Data:

Conc	Abs Diff	%CV	Predic %Diff
0.00	2.006		
	2.061		
Mean	2.034	1.9	
0.25	1.881		0.18
	-0.074		-42.0
	1.809		0.27
	0.017		6.5
Mean	1.845	2.8	0.22
	-0.029		-13.1
1.00	1.300		1.17
	0.171		14.6
	1.230		1.35
	0.351		26.0
Mean	1.265	3.9	1.26
	0.259		20.5
5.00	0.638		4.38
	-0.615		-14.0
	0.616		4.61
	-0.390		-8.5
Mean	0.627	2.5	4.50
	-0.505		-11.2

Control Data :

Ctrl#	Abs	Conc
1	0.972	2.23
ID: Control		

08-21-02 14:13:53

******** OHMICRON ********

PROTOCOL : PCB

TECH ID :
LOT # :
EXP DATE:

Data Reduct: Lin.Regression
Xformation: Ln/LgtB
Read Mode : Absorbance
Wavelength : 450 nm
Units : PPB

EQUATION OF LINE :

Slope = -1.063
Intercept = 1.151
Corr (r) = 1.0000

Transformed Data :

Conc	Abs
0.00	1.151
1.61	-0.560

Batch 2
8/21/02
0-1
6' from pad

Calibrator Data:

Conc	Abs Diff	%CV	Predic %Diff
0.00	1.469		
	1.952		
Mean	1.711	20.0*	
0.25	1.830		nd
	1.723		nd
Mean	1.776	4.2	nd
1.00	1.313		0.96
	-0.040		-4.2
	1.286		1.04
	0.041		3.9
Mean	1.300	1.5	1.00
	0.000		0.0
5.00	0.650		4.68
	-0.322		-6.9
	0.594		5.35
	0.351		6.6
Mean	0.622	6.4	5.00
	-0.000		-0.0

Control Data :

Ctrl#	Abs	Conc	
1	0.804	3.31	✓

ID:

Samples Data :

Spl#	Abs	Conc	ID
1	0.481	7.13Hi	N-2-04 >10
2	0.393	9.21Hi	N-3-04 >10
3	0.212	18.54Hi	N-4-04 >10
4	0.496	6.86Hi	N-5-04 >10
5	0.486	7.04Hi	N-6-04 >10
6	0.302	12.59Hi	N-7-04 >10
7	0.724	3.95	W-1-04 7.9
8	0.353	10.50Hi	W-2-04 >10
9	0.508	6.65Hi	W-3-04 >10
10	0.384	9.47Hi	W-4-04 >10
11	0.305	12.44Hi	W-5-04 >10
12	0.465	7.47Hi	W-6-04 >10
13	0.628	4.93	W-7-04 9.9
14	1.233	1.21	W-8-04 2.4
15	0.981	2.23	W-9-04 4.5
16	1.950	nd	E-1-04 <0.5
17	1.469	0.54	E-2-04 1.1
18	1.705	0.01nd	E-3-04 <0.5
19	1.792	nd	E-4-04 <0.5
20	1.827	nd	E-5-04 <0.5
21	1.711	nd	E-6-04 <0.5
22	1.867	nd	E-7-04 <0.5
23	1.310	0.97	E-8-04 1.9
24	1.844	nd	E-9-04 <0.5
25	1.707	0.01nd re-run	E-4-1-2 <0.5
26	0.737	3.84 ✓	Control

******** OHMICRON ********

Please Wait 30 Minutes
08-22-02 07:06:25

08-22-02 09:04:25

******** OHMICRON ********

PROTOCOL : PCB

TECH ID :_____
LOT # :_____
EXP DATE:_____

Data Reduct:Lin.Regression
Xformation: Ln/LgtB
Read Mode : Absorbance
Wavelength : 450 nm
Units : PPB

EQUATION OF LINE :

Slope = -0.901
Intercept = 0.501
Corr (r) = 1.0000

Transformed Data :

Conc	Abs
-1.39	1.756
0.00	0.489
1.61	-0.943

Batch 1
8/20/02

Calibrator Data:

Conc	Abs Diff	%CV	Predic %Diff
0.00	1.969		
	1.939		
Mean	1.954	1.1	
0.25	1.722		0.19
	-0.062		-32.9
	1.610		0.31
	0.064		20.5
Mean	1.666	4.8	0.25
	-0.002		-0.7
1.00	1.200		1.04
	0.041		3.9
	1.222		0.99
	-0.014		-1.4
Mean	1.211	1.3	1.01
	0.013		1.3
5.00	0.554		4.88
	-0.118		-2.4
	0.541		5.06
	0.060		1.2
Mean	0.548	1.6	4.97
	-0.030		-0.6

Control Data :

Ctrl#	Abs	Conc
1	0.714	3.22 ✓

ID:_____

Samples Data :

Spl#	Abs	Conc	ID
1	1.842	0.08nd	S-1-05
2	1.907	0.03nd	S-2-05
3	1.738	0.17	S-3-05 0.34
4	1.993	nd	S-4-05 <0.5
5	1.974	nd	S-5-05 <0.5
6	1.952	0.00nd	S-6-05 <0.5
7	1.861	0.06nd	S-7-05 <0.5
8	1.902	0.03nd	S-8-05 <0.5
9	1.944	0.00nd	S-9-05 <0.5
10	1.869	0.06nd	W-2-06 <0.5
11	2.059	nd	W-4-06 <0.5
12	2.011	nd	W-6-06 <0.5
13	1.867	0.06nd	W-8-06 <0.5
14	1.789	0.12	W-9-06 0.24
15	1.857	0.07nd	N-1-06 <0.5
16	1.805	0.11	N-3-06 0.22
17	0.685	3.46	N-5-06 6.9
18	0.735	3.06	N-7-06 6.1
19	1.884	0.05nd	N-8-06 <0.5
20	1.378	0.66	N-1-07 1.3
21	1.640	0.28	N-3-07 0.56
22	0.715	3.21	N-4-07 6.4
23	0.690	3.41 ✓	Control 3

END OF RUN
08-22-02 09:10:23

08-22-02 12:35:44

******** OHMICRON ********

PROTOCOL : PCB

TECH ID :_____
LOT # :_____
EXP DATE:_____

Data Reduct:Lin.Regression
Xformation: Ln/LgtB
Read Mode : Absorbance
Wavelen9th : 450 nm
Units : PPB

EQUATION OF LINE :

Slope = -0.839
Intercept = 0.502
Corr (r) = 0.9990

Transformed Data :

Conc	Abs
-1.39	1.630
0.00	0.568
1.61	-0.878

Batch 2
8/22/02
8' from pad
0-1.4

Calibrator Data:

Conc	Abs Diff	%CV	Predic %Diff
0.00	1.680		
	1.744		
Mean	1.712	2.7	
0.25	1.264		0.53
	0.279		52.8
	1.600		0.08
	-0.173		-224.8
Mean	1.432	16.6*	0.26
	0.011		4.1
1.00	1.060		1.02
	0.020		2.0
	1.126		0.84
	-0.164		-19.7
Mean	1.093	4.3	0.92
	-0.076		-8.2
5.00	0.520		4.90
	-0.101		-2.1
	0.485		5.50
	0.495		9.0
Mean	0.503	4.8	5.19
	0.185		3.6

Control Data :

Ctrl#	Abs	Conc
1	0.603	3.76

ID:_____

Samples Data :

Spl#	Abs	Conc	ID
1	1.146	0.79	S-2-08 1.4
2	1.236	0.58	S-4-08 1.2
3	1.500	0.18	S-6-08 0.36
4	1.449	0.24	S-7-08 0.48
5	1.655	0.03nd	S-8-08 <0.5
6	0.399	7.51Hi	S-9-08 >10
7	1.159	0.75	W-2-08 1.5
8	1.157	0.76	W-4-08 1.5
9	1.458	0.23	W-6-08 0.46
10	1.580	0.09nd	W-8-08 <0.5
11	1.039	1.09	W-9-08 2.2
12	0.605	3.74	

ID:_____

END OF RUN
08-22-02 12:39:36

08-22-02 16:55:18

******** OHMICRON ********

PROTOCOL : PCB

TECH ID :_____
LOT # :_____
EXP DATE:_____

Data Reduct:Lin.Regression
Xformation: Ln/LgtB
Read Mode : Absorbance
Wavelength : 450 nm
Units : PPB

EQUATION OF LINE :

Slope = -0.861
Intercept = 0.458
Corr (r) = 0.9995

Transformed Data :

Conc	Abs
-1.39	1.626
0.00	0.504
1.61	-0.949

Batch 3
8/22/02

Calibrator Data:

Conc	Abs Diff	%CV	Predic %Diff
0.00	1.901		
	1.832		
Mean	1.867	2.6	
0.25	1.557		0.26
	0.010		3.9
	1.562		0.25
	0.005		1.8
Mean	1.560	0.2	0.26
	0.007		2.8
1.00	1.183		0.90
	-0.101		-11.2
	1.144		1.00
	-0.001		-0.1
Mean	1.163	2.4	0.95
	-0.052		-5.5
5.00	0.521		5.12
	0.119		2.3
	0.520		5.13
	0.132		2.6
Mean	0.521	0.1	5.13
	0.125		2.4

Control Data :

Ctrl#	Abs	Conc
1	0.710	3.00

ID: Control

Samples Data :

Spl#	Abs	Conc
1	0.887	1.91

ID: W-2-10 3.8

2	0.425	7.03Hi

ID: W-4-10 710

3	0.688	3.18

ID: W-9-10 6.4

4	1.861	0.00nd

ID: S-2-09 <0.05

5	2.039	nd

ID: S-4-09 <0.05

6	1.885	nd

ID: S-9-09 <0.05

7	1.939	nd

ID: N-1-10 <0.5

8	0.925	1.74

ID: N-4-10 3.5

9	0.939	1.68

ID: N-5-10 3.4

10	1.341	0.57

ID: N-7-10 1.1

11	0.724	2.89

ID: Control

END OF RUN
08-22-02 16:58:35

Appendix D

Photographs

Initial Soil Removal

Initial Soil Removal

Initial Soil Removal

Soil Removal

Soil Removal

Excavation Area

Excavation Area

Increased Excavation Area

Area After Rain and Site Restoration

Site Restoration

Site Restoration

Site Restoration

Appendix E

Confirmation Sample Results

Catch Basin

analytics environmental laboratory LLC

195 Commerce Way Suite E
Portsmouth, New Hampshire 03801
603-436-5111 Fax 603-430-2151
800-929-9906
analytics@analyticslab.com

September 3, 2002

Mr Dan Sullivan
Foster Wheeler Environmental Corporation
P.O. Box 660
Kittery, ME 03904

RECEIVED
SEP - 9 2002

RE: Analytical Results Case Narrative
Analytics # 48114
Navy – FWEC Project # CTO-0033-1
PCB Removal Bldg. 335
Topsham Annex
Topsham, ME

Dear Mr. Sullivan;

Enclosed please find the analytical results for samples submitted for the above-mentioned project. The attached Cover Page lists the sample IDs, Lab tracking numbers and collection dates for the samples included in this deliverable.

The samples were analyzed for PCBs according to EPA Method 8082. Unless otherwise noted in the Non-conformance Summary listed below, all of the quality control (QC) criteria including initial calibration, calibration verification, surrogate recovery, holding time and method accuracy/precision for these analyses were within acceptable limits.

This Level 3 data package has been assembled in the following order:

Case Narrative/Non-Conformance Summary
- Sample Log Sheet - Cover Page
- PCB Form 1 Data Sheet for Samples and Blanks
  - Chromatograms
- PCB Form 10 Confirmation Results Form (if required)
- PCB Form 2 Surrogate Recoveries
- PCB Form 3 MS/MSD (LCS) Recoveries
- PCB Form 4 Method Blank Summary (equiv.) GC/MS Logbook Sheets
- PCB Form 5 DDT Breakdown Summaries
- PCB Form 6 Initial Calibration Data
- PCB Form 7 Continuing Calibration Check
- PCB Form 8 System Monitoring Compound RT Summary
- Chain of Custody (COC) Forms and Sample Receipt Checklist

QC NON CONFORMANCE SUMMARY

Sample Receipt:
No QC deviations.

PCBs by EPA Method 8082:
No QC deviations.

Sincerely,
ANALYTICS Environmental Laboratory, LLC

Stephen L. Knollmeyer
Laboratory Director

analytics environmental laboratory LLC

195 Commerce Way Suite E
Portsmouth, New Hampshire 03801
603-436-5111 Fax 603-430-2151
800-929-9906
analytics@analyticslab.com

Mr. Dan Sullivan
Foster Wheeler Environmental Corp.
P.O. Box 660
Kittery ME 03904

Report Number: 48114

Revision: Rev. 0

Re: PCB REMOVAL BLDG. 335 **CTO-0033-1**

Enclosed are the results of the analyses on your sample(s). Samples were received on 19 August 2002 and analyzed for the tests listed below. Samples were received in acceptable condition, with the exceptions noted below or on the chain of custody. The results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report. Please see individual reports for specific methodologies and references.

Lab Number	Sample Date	Station Location	Analysis	Comments
48114-1	08/19/02	CB81902-1	EPA 8082 (PCBs only)	

Sample Receipt Exceptions: None

Analytics Environmental Laboratory is certified by the states of New Hampshire, Maine, Massachusetts, Connecticut, Rhode Island, North Carolina and is validated by the U.S. Army Corps of Engineers (MRD) and U.S. Navy (NFESC). A list of actual certified parameters is available upon request.

If you have any further question on the analytical methods or these results, do not hesitate to call.

Authorized signature _____
Stephen L. Knollmeyer Lab. Director

Date 8/21/2002

This report shall not be reproduced, except in full, without the written consent of Analytics Environmental Laboratory, LLC.

analytics environmental laboratory LLC

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800-929-9906

Mr. Dan Sullivan
Foster Wheeler Environmental Corp.
P.O. Box 660
Kittery ME 03904

August 30, 2002

SAMPLE DATA

CLIENT SAMPLE ID

Project Name: PCB REMOVAL BLDG. 335

Project Number: CTO-0033-1

Field Sample ID: LABQC

Lab Sample ID: B08162PAS
Matrix: Solid
Percent Solid: 100
Dilution Factor: 1.0
Collection Date:
Lab Receipt Date:
Extraction Date: 08/16/02
Analysis Date: 08/19/02

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/kg	Results µg/kg
PCB-1016	15	U
PCB-1221	15	U
PCB-1232	15	U
PCB-1242	15	U
PCB-1248	15	U
PCB-1254	15	U
PCB-1260	15	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	97	%
Decachlorobiphenyl	96	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3545.

COMMENTS: Results are expressed on a dry weight basis.

PCB Report

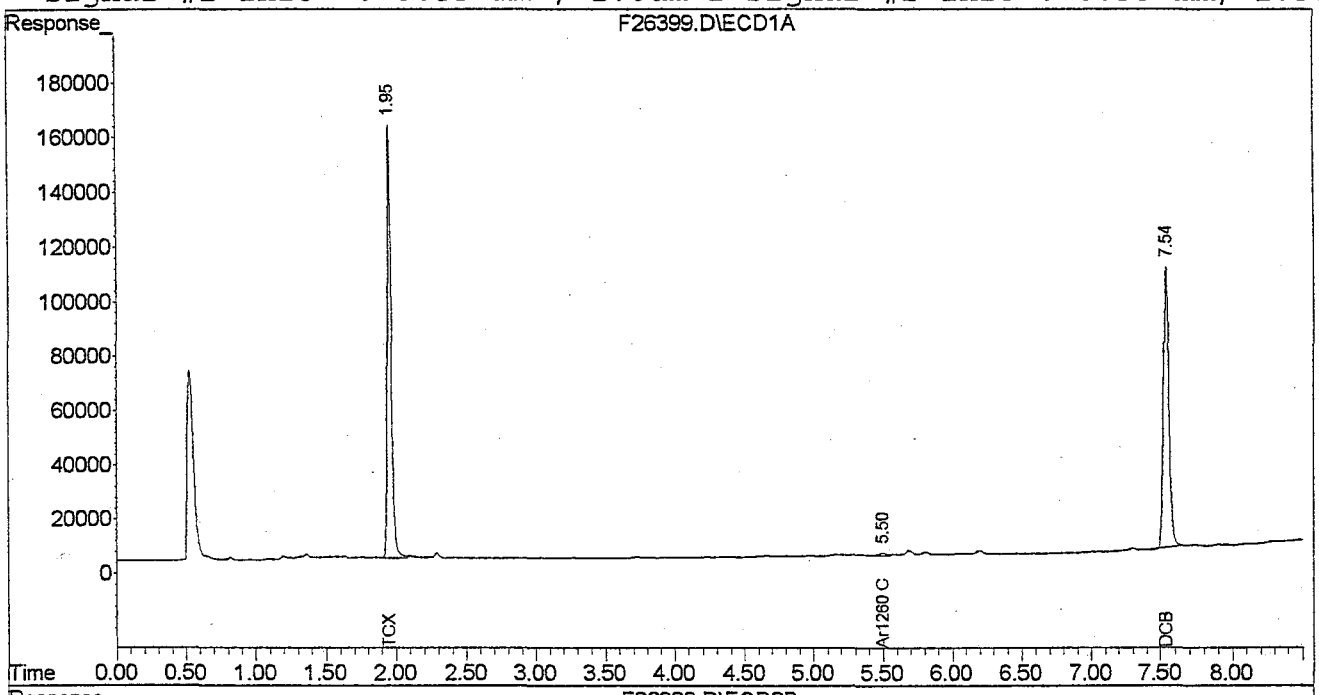
Authorized signature

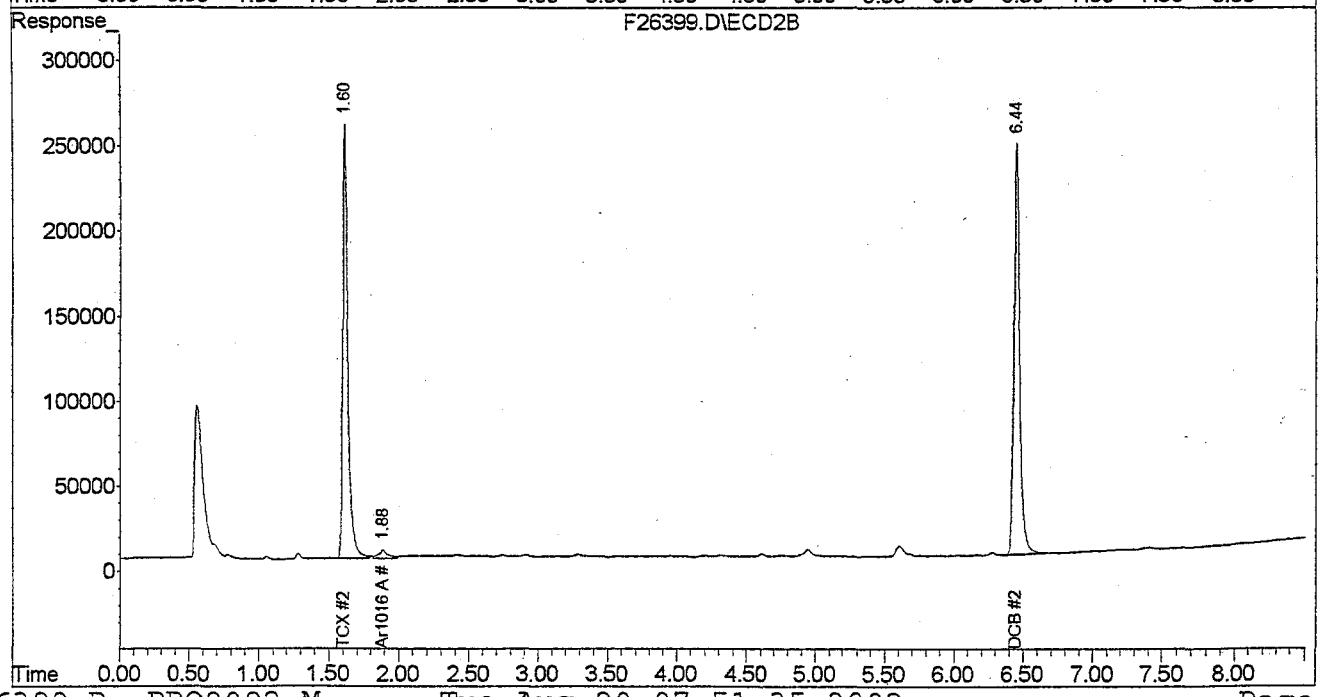
Quantitation Report (Not Reviewed)

Signal #1 : D:\HPCHEM\2\DATA\081902-F\F26399.D\ECD1A.CH Vial: 7
Signal #2 : D:\HPCHEM\2\DATA\081902-F\F26399.D\ECD2B.CH
Acq On : 19 Aug 2002 3:29 pm Operator:
Sample : B08162PAS A/C Inst : Instrume
Misc : SOIL Multiplr: 1.00
IntFile Signal #1: PCBINT.E IntFile Signal #2: PCBINT2.E
Quant Time: Aug 20 7:51 2002 Quant Results File: PBQ8092.RES

Quant Method : D:\HPCHEM\2\METHODS\PBQ8092.M (Chemstation Integrator)
Title : Aroclor 1016/1260
Last Update : Mon Aug 19 13:31:03 2002
Response via : Multiple Level Calibration
DataAcq Meth : PCB.M

Volume Inj. : 3 ul
Signal #1 Phase : DB-1701 Widebore Signal #2 Phase: DB-5 Widebore
Signal #1 Info : 0.53 mm , 1.0um f Signal #2 Info : 0.53 mm, 1.5um fil





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800-929-9906

Mr. Dan Sullivan
Foster Wheeler Environmental Corp.
P.O. Box 660
Kittery ME 03904

August 30, 2002

SAMPLE DATA

CLIENT SAMPLE ID

Project Name: PCB REMOVAL BLDG. 335

Project Number: CTO-0033-1

Field Sample ID: LABQC

Lab Sample ID: B08202PAS
Matrix: Solid
Percent Solid: 100
Dilution Factor: 1.0
Collection Date:
Lab Receipt Date:
Extraction Date: 08/16/02
Analysis Date: 08/20/02

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/kg	Results µg/kg
PCB-1016	15	U
PCB-1221	15	U
PCB-1232	15	U
PCB-1242	15	U
PCB-1248	15	U
PCB-1254	15	U
PCB-1260	15	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	85	%
Decachlorobiphenyl	72	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3545.

COMMENTS: Results are expressed on a dry weight basis.

PCB Report

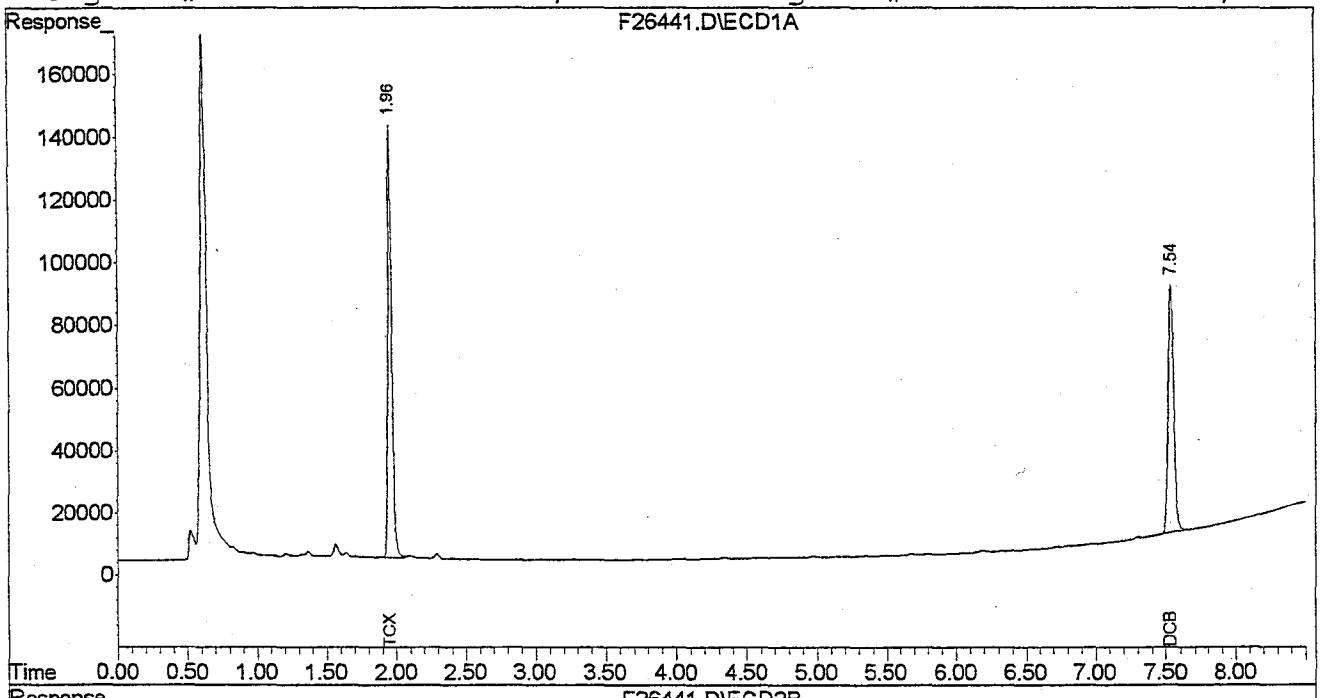
Authorized signature

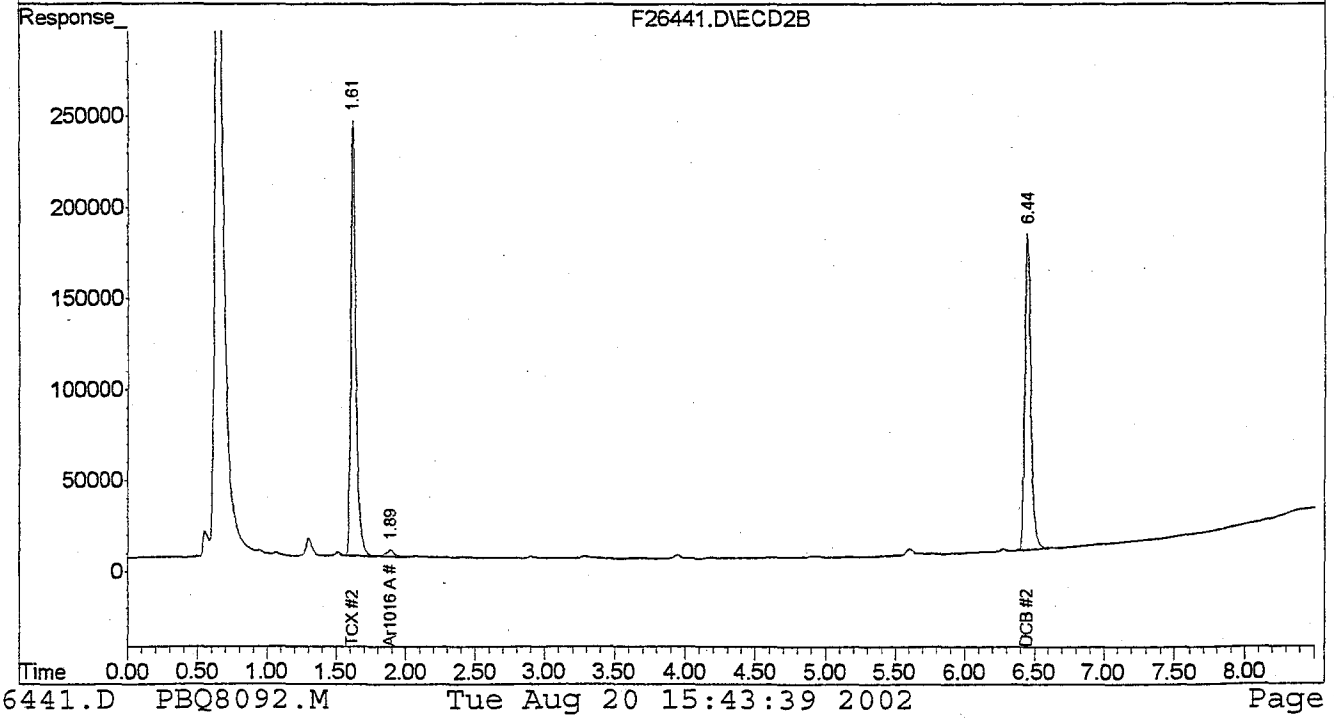
Quantitation Report (Not Reviewed)

Signal #1 : D:\HPCHEM\2\DATA\082002-F\F26441.D\ECD1A.CH Vial: 9
Signal #2 : D:\HPCHEM\2\DATA\082002-F\F26441.D\ECD2B.CH
Acq On : 20 Aug 2002 12:48 pm Operator:
Sample : B08202PAS A/C Inst : Instrume
Misc : SOIL Multiplr: 1.00
IntFile Signal #1: PCBINT.E IntFile Signal #2: PCBINT2.E
Quant Time: Aug 20 15:43 2002 Quant Results File: PBQ8092.RES

Quant Method : D:\HPCHEM\2\METHODS\PBQ8092.M (Chemstation Integrator)
Title : Aroclor 1016/1260
Last Update : Mon Aug 19 13:31:03 2002
Response via : Multiple Level Calibration
DataAcq Meth : PCB.M

Volume Inj. : 3 ul
Signal #1 Phase : DB-1701 Widebore Signal #2 Phase: DB-5 Widebore
Signal #1 Info : 0.53 mm , 1.0um f Signal #2 Info : 0.53 mm, 1.5um fil





analytics environmental laboratory LLC

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Mr. Dan Sullivan
Foster Wheeler Environmental Corp.
P.O. Box 660
Kittery ME 03904

August 20, 2002

SAMPLE DATA

Lab Sample ID:	48114-1
Matrix:	Solid
Percent Solid:	87
Dilution Factor:	1.1
Collection Date:	08/19/02
Lab Receipt Date:	08/19/02
Extraction Date:	08/20/02
Analysis Date:	08/20/02

CLIENT SAMPLE ID

Project Name:	PCB REMOVAL BLDG. 335
Project Number:	CTO-0033-1
Field Sample ID:	CB81902-1

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/kg	Results µg/kg
PCB-1016	17	U
PCB-1221	17	U
PCB-1232	17	U
PCB-1242	17	U
PCB-1248	17	U
PCB-1254	17	U
PCB-1260	17	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	105	%
Decachlorobiphenyl	89	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3545.

COMMENTS: Results are expressed on a dry weight basis.

PCB Report

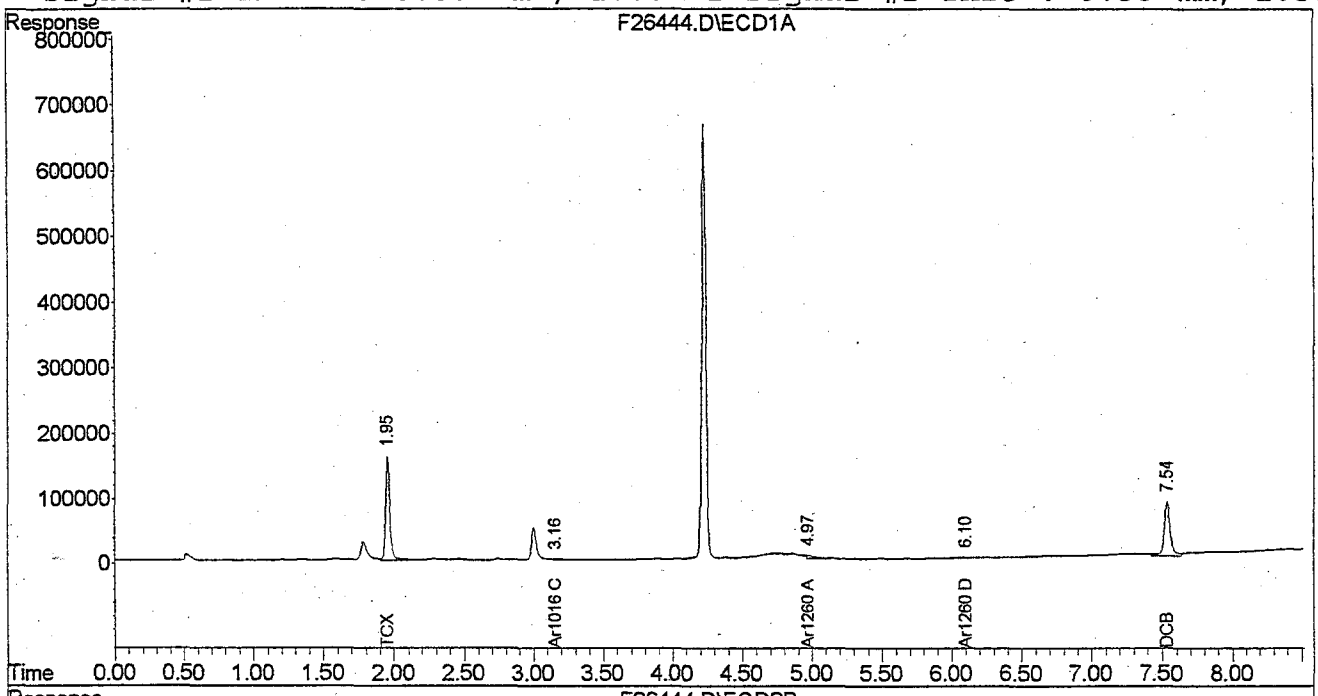
Authorized signature

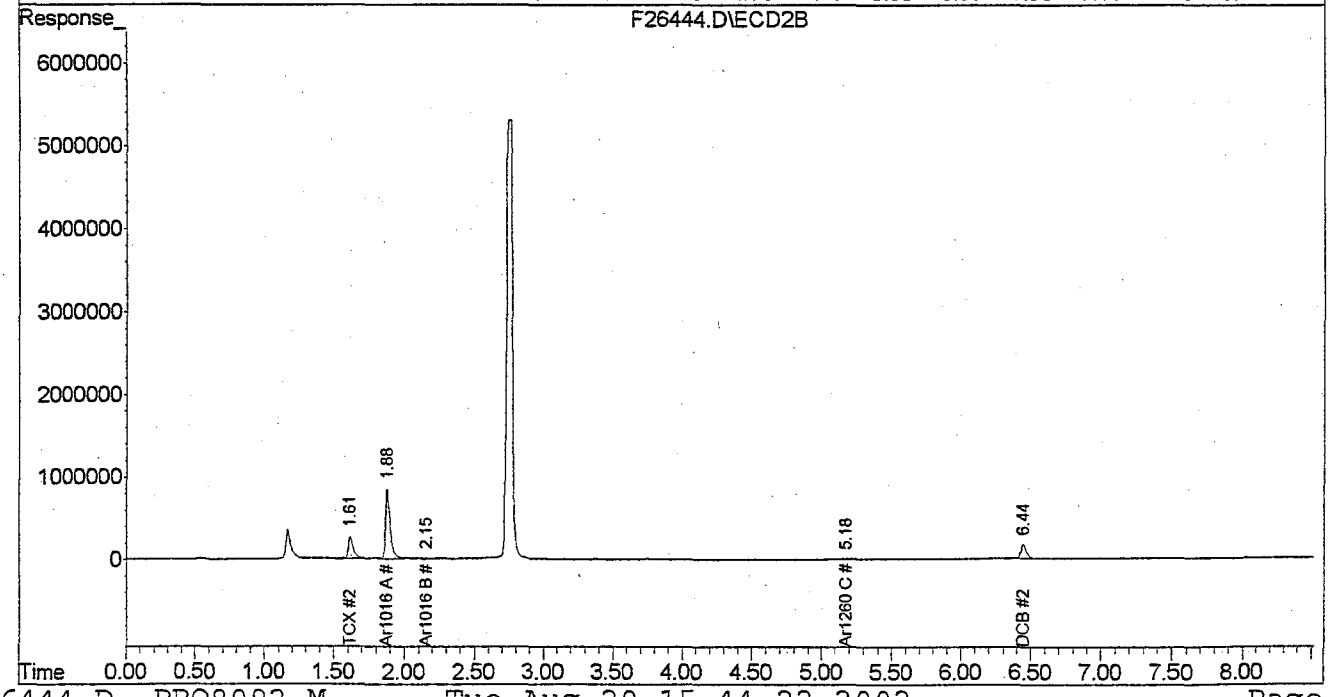
Quantitation Report (Not Reviewed)

Signal #1 : D:\HPCHEM\2\DATA\082002-F\F26444.D\ECD1A.CH Vial: 12
Signal #2 : D:\HPCHEM\2\DATA\082002-F\F26444.D\ECD2B.CH
Acq On : 20 Aug 2002 1:22 pm Operator:
Sample : 48114-1 A/C Inst : Instrume
Misc : SOIL Multiplr: 1.00
IntFile Signal #1: PCBINT.E IntFile Signal #2: PCBINT2.E
Quant Time: Aug 20 15:44 2002 Quant Results File: PBQ8092.RES

Quant Method : D:\HPCHEM\2\METHODS\PBQ8092.M (Chemstation Integrator)
Title : Aroclor 1016/1260
Last Update : Mon Aug 19 13:31:03 2002
Response via : Multiple Level Calibration
DataAcq Meth : PCB.M

Volume Inj. : 3 ul
Signal #1 Phase : DB-1701 Widebore Signal #2 Phase: DB-5 Widebore
Signal #1 Info : 0.53 mm , 1.0um f Signal #2 Info : 0.53 mm, 1.5um fil





analytics environmental laboratory LLC

PCB SOLID
SYSTEM MONITORING COMPOUND RECOVERY

Project #: CTO-0033-1 Quote #: SDG#: 48114

Site ID: PCB Removal Bldg. 335 Location: Topsham, ME

Instrument ID: F

GC Column: RTX-CLPesticides I ID: 0.53(mm)
RTX-CLPesticides II

	SAMPLE ID	COLUMN #1 SMC1	#	COLUMN #1 SMC2	#	COLUMN #2 SMC1	#	COLUMN #2 SMC2	#	TOT OUT	#
01	ZZZZZ	NA		NA		NA		NA		0	
02	P2692 16/60 0.02	NA		NA		NA		NA		0	
03	P2693 16/60 0.05	NA		NA		NA		NA		0	
04	P2694 16/60 0.1	NA		NA		NA		NA		0	
05	P2695 16/60 0.5	111		109		122		131		0	
06	P2696 16/60 1.0	NA		NA		NA		NA		0	
07	ZZZZZ	NA		NA		NA		NA		0	
08	P2677 1221 1.0	NA		NA		NA		NA		0	
09	P2678 1232 1.0	NA		NA		NA		NA		0	
10	P2679 1242 1.0	NA		NA		NA		NA		0	
11	P2682 1248 1.0	NA		NA		NA		NA		0	
12	P2680 1254 1.0	NA		NA		NA		NA		0	
13	ZZZZZ	102		105		112		100		0	
14	ZZZZZ	NA		NA		NA		NA		0	
15	ZZZZZ	98		109		90		99		0	
16	ZZZZZ	98		108		94		98		0	
17	ZZZZZ	91		99		86		91		0	
18	ZZZZZ	82		86		80		83		0	
19	ZZZZZ	85		100		84		95		0	
20	ZZZZZ	85		100		97		96		0	
21	ZZZZZ	85		90		83		89		0	
22	ZZZZZ	72		84		71		82		0	
23	ZZZZZ	79		94		76		90		0	
24	ZZZZZ	80		81		65		68		0	
25	ZZZZZ	73		85		67		77		0	
26	ZZZZZ	80		92		77		89		0	
27	ZZZZZ	81		95		77		86		0	
28	ZZZZZ	75		89		72		80		0	
29	ZZZZZ	80		89		76		83		0	
30	ZZZZZ	86		97		81		94		0	
31	P2695 16/60 0.5	107		108		105		107		0	
32											
33											
34											
35											

SMC1 = TCX 49-134
SMC2 = DCB 69-155

Column to be used to flag recovery values
* Values outside of protocol required QC limits
D System Monitoring Compound diluted out

analytics environmental laboratory LLC

PCB SOLID
SYSTEM MONITORING COMPOUND RECOVERY

Project #: CTO-0033-1 Quote #: SDG#: 48114

Site ID: PCB Removal Bldg. 335 Location: Topsham, ME

Instrument ID: F

GC Column: RTX-CLPesticides I ID: 0.53(mm)
RTX-CLPesticides II

	SAMPLE ID	COLUMN #1 SMC1	#	COLUMN #1 SMC2	#	COLUMN #2 SMC1	#	COLUMN #2 SMC2	#	TOT OUT	#
01	P2695 16/60 0.5	111		110		99		101		0	
02	ZZZZZ	NA		NA		NA		NA		0	
03	ZZZZZ	NA		NA		NA		NA		0	
04	ZZZZZ	NA		NA		NA		NA		0	
05	ZZZZZ	NA		NA		NA		NA		0	
06	ZZZZZ	NA		NA		NA		NA		0	
07	B08162PAS A/C	97		96		91		90		0	
08	L08162PASB A/C	100		102		90		93		0	
09	LD08162PASB A/C	89		92		80		83		0	
10	ZZZZZ	74		97		62		95		0	
11	ZZZZZ	70		74		56		66	*	1	
12	ZZZZZ	88		83		75		76		0	
13	ZZZZZ	71		94		60		96		0	
14	ZZZZZ	87		78		74		67	*	1	
15	ZZZZZ	78		84		69		68	*	1	
16	ZZZZZ	62		-20	*	57		496	*	2	
17	ZZZZZ	76		116		71		135		0	
18	ZZZZZ	77		121		70		162	*	1	
19	ZZZZZ	82		145		72		225	*	1	
20	ZZZZZ	61		75		55		66	*	1	
21	ZZZZZ	77		32	*	69		309	*	2	
22	ZZZZZ	60		86		53		92		0	
23	ZZZZZ	75		87		68		86		0	
24	ZZZZZ	73		105		71		102		0	
25	48089-9,MS A/C	55		74		51		87		0	
26	48089-9,MSD A/C	57		89		53		118		0	
27	P2695 16/60 0.5	110		113		99		93		0	
28											
29											
30											
31											
32											
33											
34											
35											

SMC1 = TCX 49-134
SMC2 = DCB 69-155

Column to be used to flag recovery values
* Values outside of protocol required QC limits
D System Monitoring Compound diluted out

analytics environmental laboratory LLC

PCB SOLID
SYSTEM MONITORING COMPOUND RECOVERY

Project #: CTO-0033-1 Quote #: SDG#: 48114

Site ID: PCB Removal Bldg. 335 Location: Topsham, ME

Instrument ID: F

GC Column: RTX-CLPesticides I ID: 0.53(mm)
RTX-CLPesticides II

	SAMPLE ID	COLUMN #1 SMC1	#	COLUMN #1 SMC2	#	COLUMN #2 SMC1	#	COLUMN #2 SMC2	#	TOT OUT	#
01	P2695 16/60 0.5	112		103		98		97		0	
02	ZZZZZ	105		128		86		95		0	
03	ZZZZZ	94		91		87		86		0	
04	ZZZZZ	95		93		87		86		0	
05	ZZZZZ	D		D		D		D		0	
06	ZZZZZ	D		D		D		D		0	
07	ZZZZZ	85		58	*	73		54	*	2	
08	ZZZZZ	73		82		66		58	*	1	
09	B08202PAS A/C	85		72		85		62	*	1	
10	L08202PAS A/C	88		79		83		71		0	
11	ZZZZZ	43	*	43	*	39	*	97		3	
12	48114-1 A/C	105		89		93		62	*	1	
13	ZZZZZ	101		87		93		64	*	1	
14	ZZZZZ	81		70		72		50	*	1	
15	ZZZZZ	95		78		87		59	*	1	
16	ZZZZZ	94		83		86		67	*	1	
17	ZZZZZ	95		84		87		68	*	1	
18	ZZZZZ	81		65	*	72		47	*	2	
19	ZZZZZ	83		57	*	74		51	*	2	
20	ZZZZZ	65		101		54		119		0	
21	ZZZZZ	46	*	9	*	38	*	5	*	4	
22	P2695 16/60 0.5	120		103		106		91		0	
23											
24											
25											
26											
27											
28											
29											
30											
31											
32											
33											
34											
35											

SMC1 = TCX 49-134
SMC2 = DCB 69-155

Column to be used to flag recovery values
* Values outside of protocol required QC limits
D System Monitoring Compound diluted out

analytics environmental laboratory LLC

PCB SOLID
LABORATORY CONTROL SPIKE/ DUPLICATE
PERCENT RECOVERY

Project #: CTO-0033-1 Quote #: SDG#: 48114

Site ID: PCB Removal Bldg. 335 Location: Topsham, ME

Instrument ID: F

GC Column: RTX-CLPesticides I ID: 0.53(mm)

RTX-CLPesticides II

Laboratory Control Spike/Duplicate Sample ID: L08162PASB A/C \LD08162PASB A/C

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENTRATION (ug/kg)	LCS CONCENTRATION (ug/kg)	LCS RECOVERY % #	QC LIMITS % REC
PCB 1016	267	U	289	108	52-127
PCB 1260	267	U	284	106	68-159
PCB 1016 #2	267	U	287	107	57-131
PCB 1260 #2	267	U	264	99	56-139

COMPOUND	SPIKE ADDED (ug/kg)	LCSD CONCENTRATION (ug/kg)	LCSD % REC #	RPD #	QC LIMITS RPD	QC LIMITS % REC.
PCB 1016	267	287	108	1	50	52-127
PCB 1260	267	284	106	0	50	68-159
PCB 1016 #2	267	283	106	1	50	57-131
PCB 1260 #2	267	262	98	1	50	56-139

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits
RPD: 0 out of 4 outside limits
Spike Recovery:0 out of 8 outside limits

Comments: _____

analytics environmental laboratory LLC

PCB SOLID
MATRIX SPIKE/ DUPLICATE
PERCENT RECOVERY

Project #: CTO-0033-1 Quote #: SDG#: 48114

Site ID: PCB Removal Bldg. 335 Location: Topsham, ME

Instrument ID: F

GC Column: RTX-CLPesticides I ID: 0.53(mm)

RTX-CLPesticides II

Matrix Spike/Duplicate Sample ID: 48089-9

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENTRATION (ug/kg)	MS CONCENTRATION (ug/kg)	MS RECOVERY %	#	QC LIMITS % REC
PCB 1016	299	U	240	81		52-127
PCB 1260	299	**25**	284	87		68-159
PCB 1016 #2	299	U	249	84		57-131
PCB 1260 #2	299	**16**	217	67		56-139

COMPOUND	SPIKE ADDED (ug/kg)	MSD CONCENTRATION (ug/kg)	MSD % REC	#	RPD	#	QC LIMITS RPD	QC LIMITS % REC.
PCB 1016	312	271	87		12		50	52-127
PCB 1260	312	337	100		17		50	68-159
PCB 1016 #2	312	265	85		6		50	57-131
PCB 1260 #2	312	262	79		19		50	56-139

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits
RPD: 0 out of 4 outside limits
Spike Recovery: 0 out of 8 outside limits

Comments: _____

analytics environmental laboratory LLC

PCB SOLID
LABORATORY CONTROL SPIKE
PERCENT RECOVERY

Project #: CTO-0033-1 Quote #: SDG#: 48114

Site ID: PCB Removal Bldg. 335 Location: Topsham, ME

Instrument ID: F

GC Column: RTX-CLPesticides I ID: 0.53(mm)

RTX-CLPesticides II

Laboratory Control Spike Sample ID: L08202PASB A/C

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENTRATION (ug/kg)	LCS CONCENTRATION (ug/kg)	LCS RECOVERY % #	QC LIMITS % REC
PCB 1016	267	U	236	88	52-127
PCB 1260	267	U	208	78	68-159
PCB 1016 #2	267	U	259	97	57-131
PCB 1260 #2	267	U	175	66	56-139

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Spike Recovery:0 out of 4 outside limits

Comments: _____

PEST/PCB/HERB Instrument: F

Load: See

Unload: _____

U80902-F

Data File	Vial	Sample	Dil	Method	Comments
F26112	100	HEXANE		PB&08092-M	
13	1	P2692 16/60 0.02			NOT USED
14	2	P2692 16/60 0.02			✓
15	2	P2693 16/60 0.05			✓
16	3	P2694 16/60 0.1			✓
17	4	P2695 16/60 0.5			✓
18	5	P2696 16/60 1.0			✓
19	6	P2598 16/60 cc			✓
20	7	P2677 1221 1.0			for overlaps SP 5.
21	8	P2678 1232 1.0			
22	9	P2679 1242 1.0			
23	10	P2682 1248 1.0			
24	11	P2680 1254 1.0			
25	12	B08082PAS			✓
* 26A 26	13	L08082PASB			✓
27	14	L08082PASB			✓
28	15	48041-2			✓
29	16	-3			✓
30	17	-6			✓
31	18	-7			✓
32	19	-8			✓
33	20	-9			✓
34	21	-10			✓
35	22	-12			✓
36	23	-13			✓
37	24	-14			✓
38	25	-14 MS			E Flag 1016 1260 ok fails
39	26	-14 MSD			

* ~~failed~~ out, syringe stuck

(CONT.)

PEST/PCB/HERB Instrument: F

Load: [signature]
Unload: _____

[signature] 081902-F

Data File	Vial	Sample	Dil	Method	Comments
F26393	1	P2695 16/60 0.5		PBQ08092.M	✓
94	2	P2677 1221 1.0			
95	3	P2678 1232 1.0			
96	4	P2679 1242 1.0			Conc's & SP's over lap.
97	5	P2682 1248 1.0			
98	6	P2680 1254 1.0			
99	7	B08162PAS A/C		✓	
F26400	8	L08162PASB		✓	
1	9	LLS08162PASB		✓	
2	10	48067-1		✓	
3	11	-2		✓	
4	12	-3		✓	
5	13	-4		✓	
6	14	48080-1		✓	
7	15	48081-1		✓	
8	16	48089-1			RR 1:100 1248
9	17	-2		✓	
10	18	-3		✓	
11	19	-4		✓	
12	20	-5		✓	
13	21	-6			RR 1:100 1260
14	22	-7		✓	
15	23	-8		✓	
16	24	-9		✓	
17	25	-9, MS		✓	
18	26	-9 MSD		✓	
19	1	P2695 16/60 0.5		✓	
20	1	P2695 16/60 0.5			NOT USED.

PEST/PCB/HERB Instrument: F

Load: [signature]
Unload: [signature]

[signature] 082002-F

Data File	Vial	Sample	Dil	Method	Comments
F26432	1	P2695 16/60 0.5		PB008092-M	
33	1	P2695 16/60 0.5		✓	
34	2	B08142PAS A/C		✓	
35	3	L08142PASB		✓	
36	4	LB08142PASB		✓	
37	5	48089-1 1:100 A/C		✓	10mL->1mL
38	6	48089-6 1:100 A/C		✓	
39	7	48096-1 A/C		✓	
40	8	48095-1		✓	
41	9	B08202PAS		✓	
42	10	L08202PAS		✓	
43	11	48113-1		✓	
44	12	48114-1		✓	
45	13	48115-1			MR 1:10 1254
46	14	48064-1		✓	
47	15	-2		✓	
48	16	-2mL		✓	
49	17	-2mLB		✓	
50	18	-3		✓	
51	19	-4		✓	
52	20	48066-1		✓	
53	21	~~4806~~ 48077-1 A/C		✓	
54	1	P2695 16/60 0.5		✓	
55	22	48115-1 1:10		✓	100mL->1mL
56	1	P2695 16/60 0.5		✓	

[signature] 8-20-02

analytics environmental laboratory LLC

PCB
INITIAL CALIBRATION DATA

Project #: CTO-0033-1 Quote #: SDG#: 48114

Site ID: PCB Removal Bldg. 335 Location: Topsham, ME

Instrument ID: F

GC Column: RTX-CLPesticides I ID: 0.53(mm)

RTX-CLPesticides II

Method Name: PBQ8092.M

Level 1 File Name	F26114.D
Level 2 File Name	F26115.D
Level 3 File Name	F26116.D
Level 4 File Name	F26117.D
Level 5 File Name	F26118.D

Compound	Calibration Fit	R
TCX	Linear	0.999
Ar1016 A	Linear	0.998
Ar1016 B	Linear	0.998
Ar1016 C	Linear	0.999
Ar1260 A	Linear	1.000
Ar1260 B	Linear	0.999
Ar1260 C	Linear	1.000
Ar1260 D	Linear	1.000
DCB	Linear	0.999
TCX #2	Linear	0.999
Ar1016 A #2	Linear	0.998
Ar1016 B #2	Linear	0.996
Ar1016 C #2	Linear	0.998
Ar1260 A #2	Linear	0.998
Ar1260 B #2	Linear	0.998
Ar1260 C #2	Linear	0.999
Ar1260 D #2	Linear	0.998
DCB #2	Linear	0.999

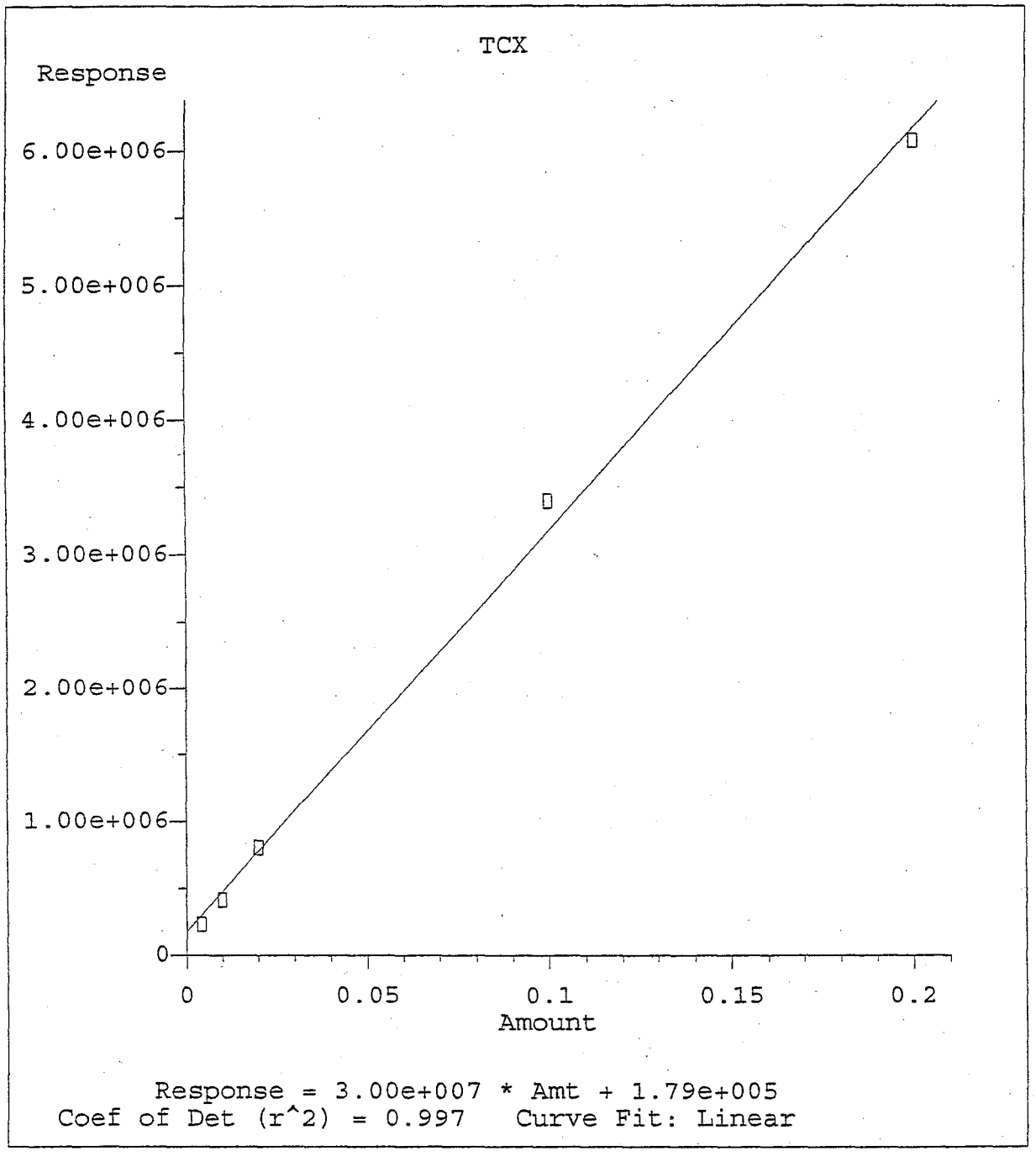
*Compounds must have a %RSD of ≤20% or correlation coefficient of 0.995 or greater.

Comments:

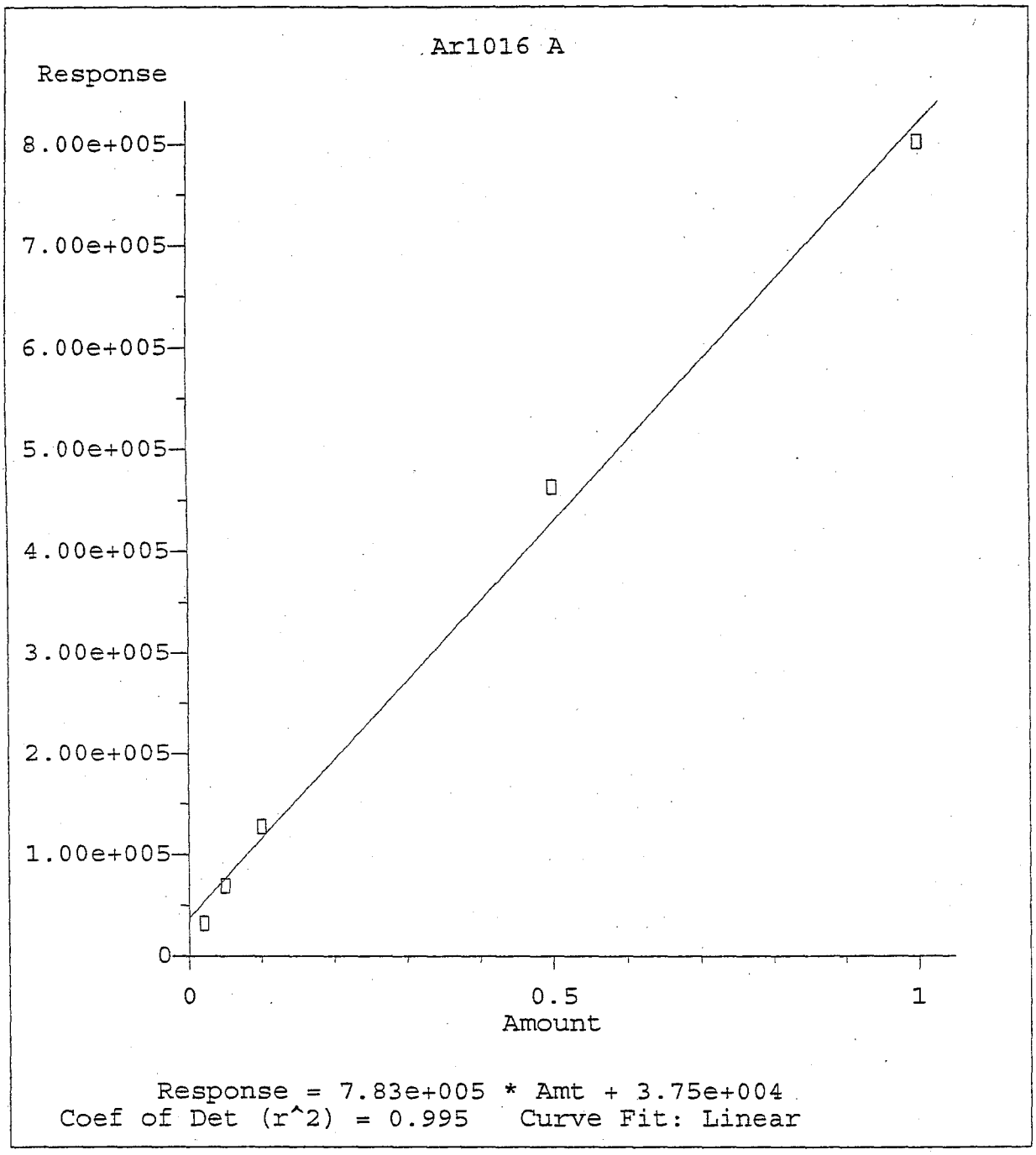
D:\HPCHEM\2\METHODS\PBQ8092.M

Level 1 File Name F26114.D
Level 2 File Name F26115.D
Level 3 File Name F26116.D
Level 4 File Name F26117.D
Level 5 File Name F26118.D

Name	Calibration Fit	R^2	R
TCX	Linear	0.997	0.999
Ar1016 A	Linear	0.995	0.998
Ar1016 B	Linear	0.995	0.998
Ar1016 C	Linear	0.997	0.999
Ar1260 A	Linear	0.999	1.000
Ar1260 B	Linear	0.999	0.999
Ar1260 C	Linear	0.999	1.000
Ar1260 D	Linear	0.999	1.000
DCB	Linear	0.999	0.999
TCX #2	Linear	0.997	0.999
Ar1016 A #2	Linear	0.997	0.998
Ar1016 B #2	Linear	0.992	0.996
Ar1016 C #2	Linear	0.995	0.998
Ar1260 A #2	Linear	0.997	0.998
Ar1260 B #2	Linear	0.997	0.998
Ar1260 C #2	Linear	0.998	0.999
Ar1260 D #2	Linear	0.997	0.998
DCB #2	Linear	0.998	0.999



Method Name: D:\HPCHEM\2\METHODS\PBQ8092.M
Calibration Table Last Updated: Mon Aug 12 13:21:28 2002



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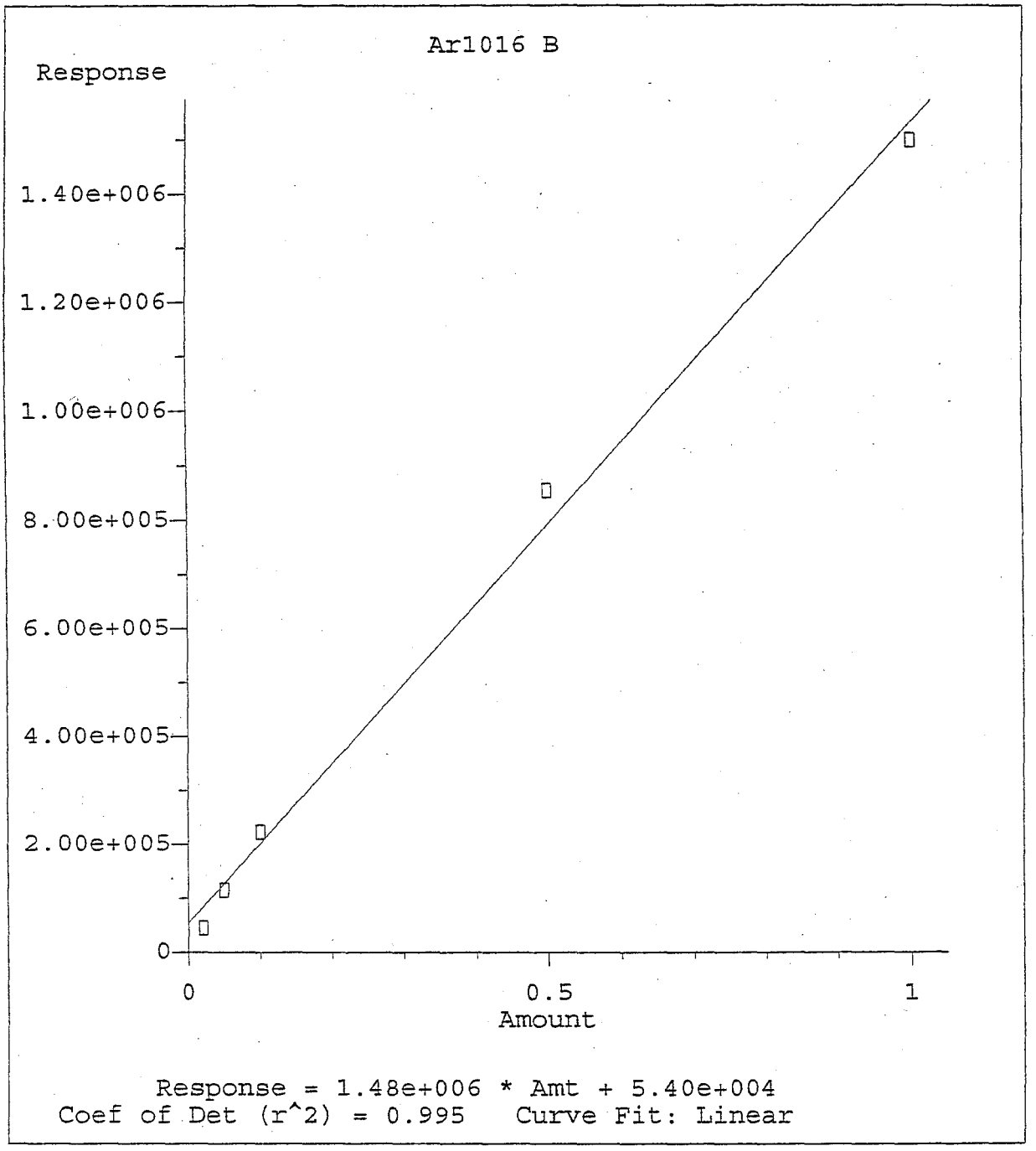
Calibration Table Last Updated: Mon Aug 12 13:21:28 2002



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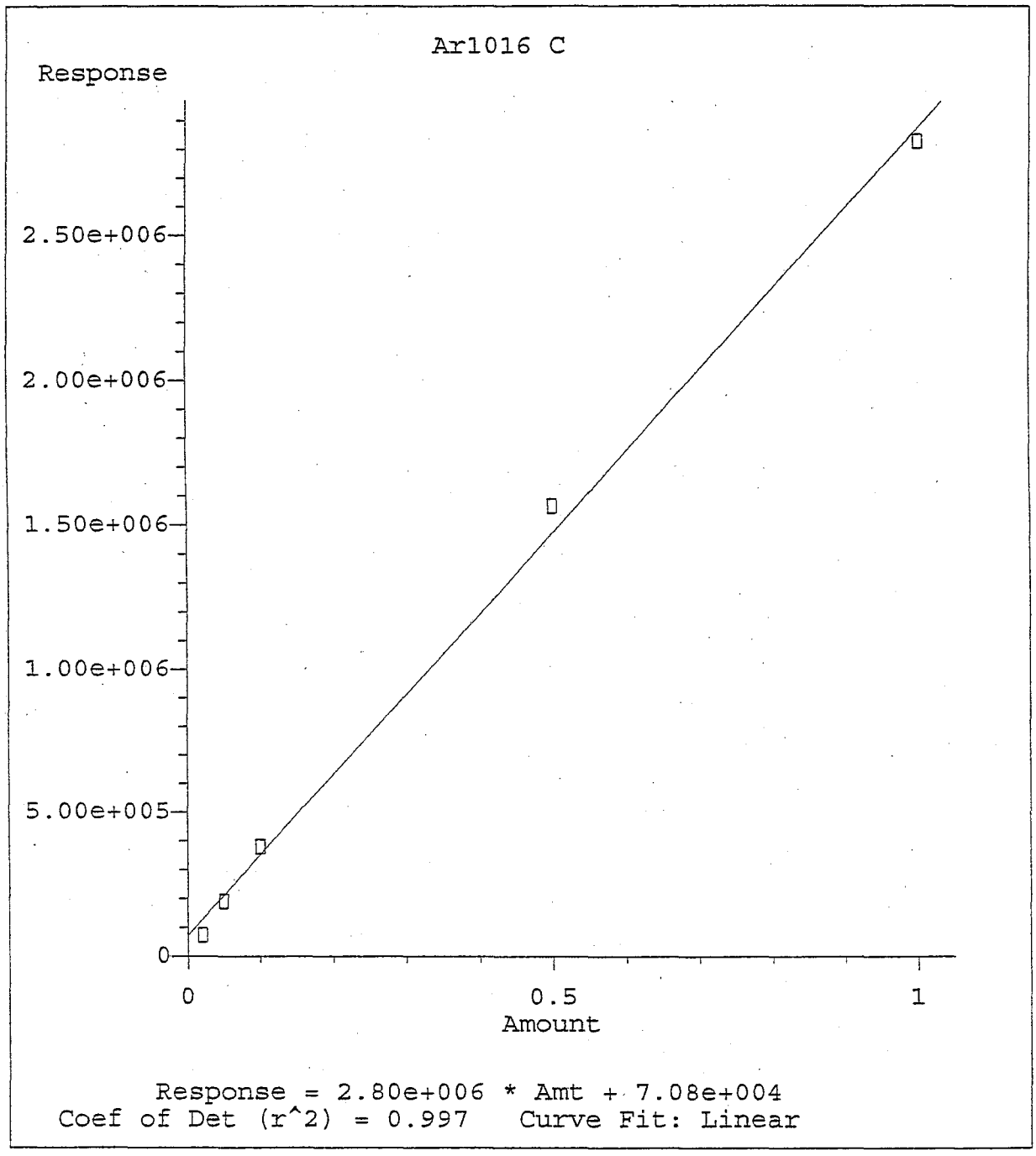

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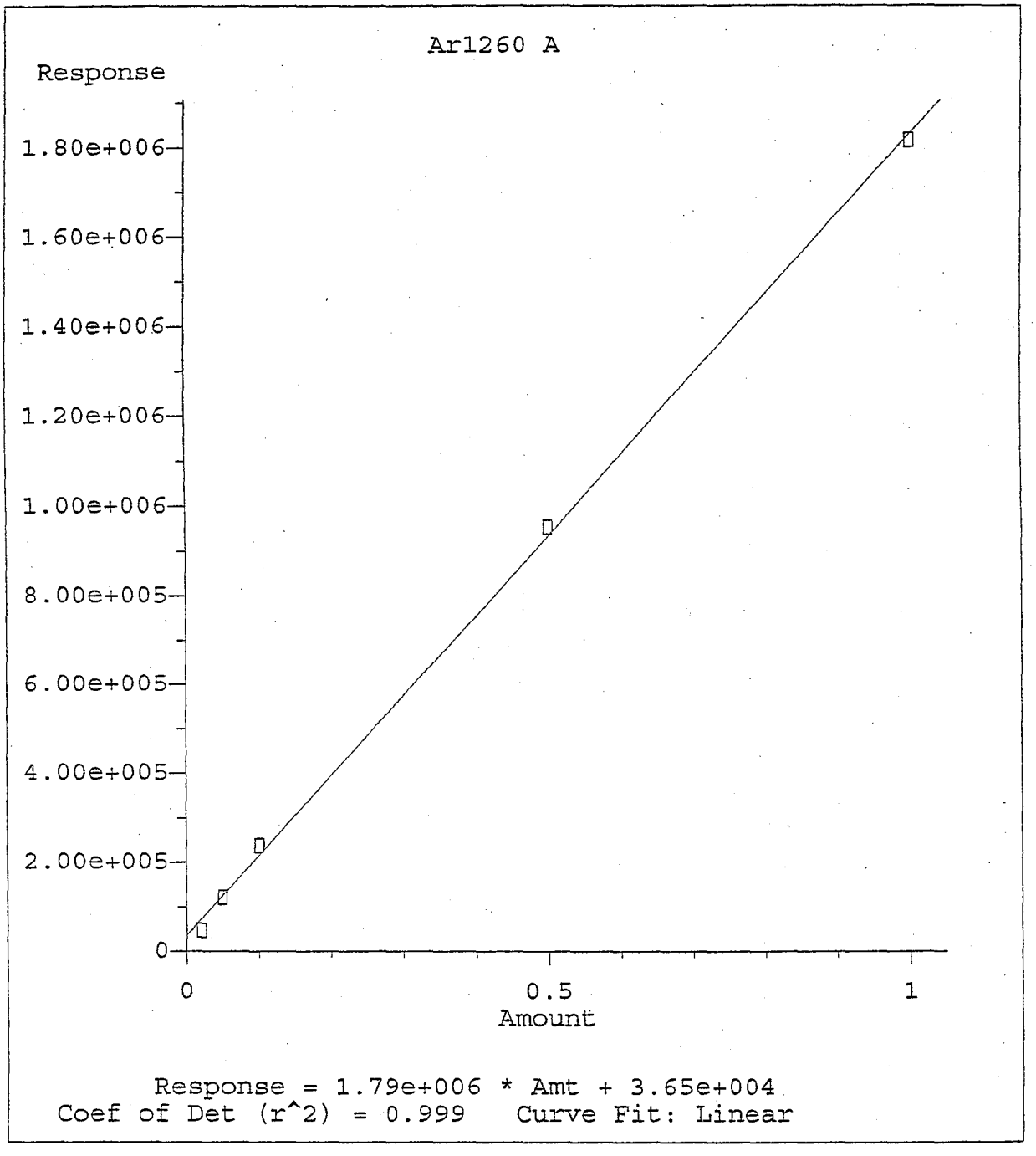

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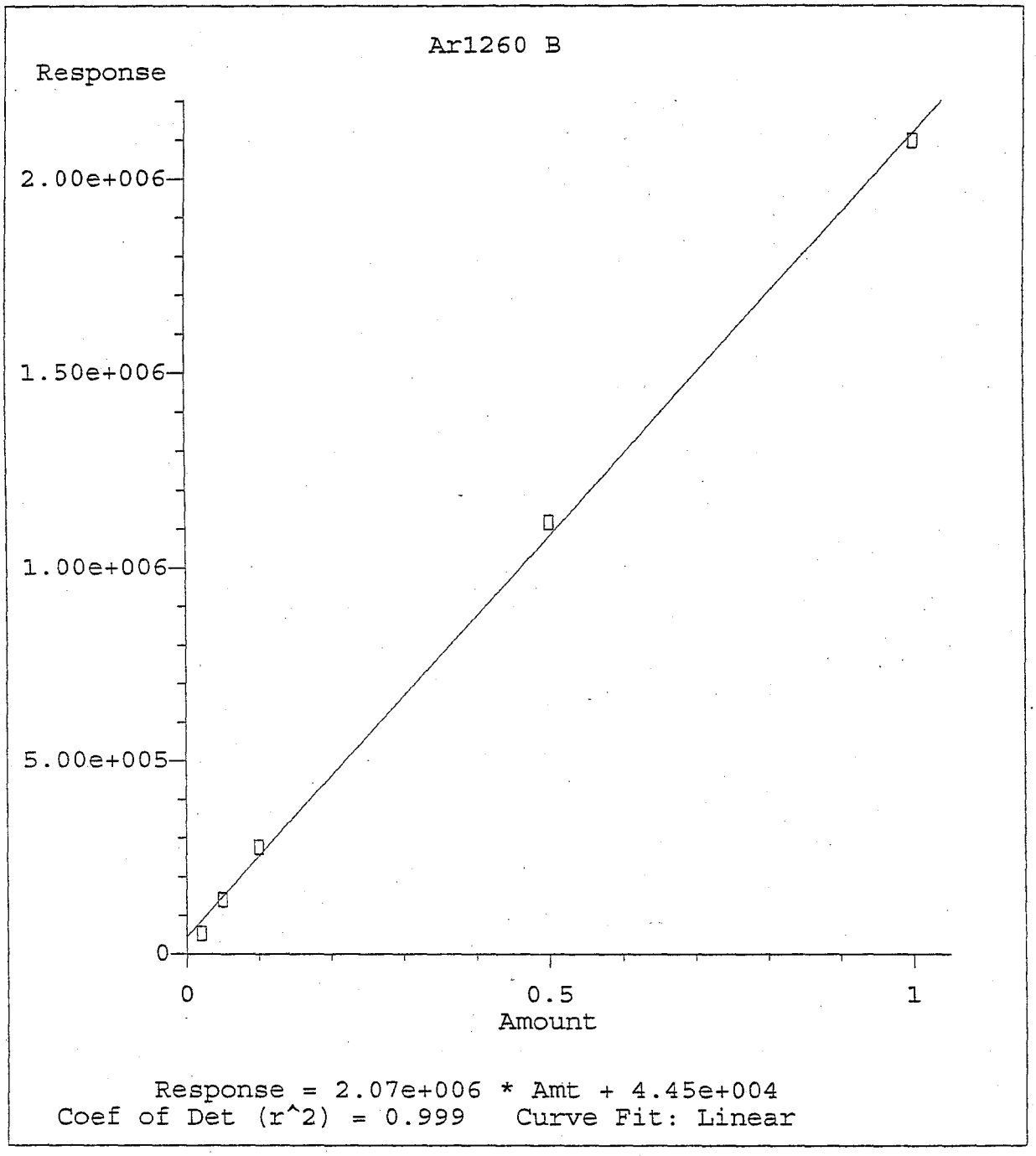

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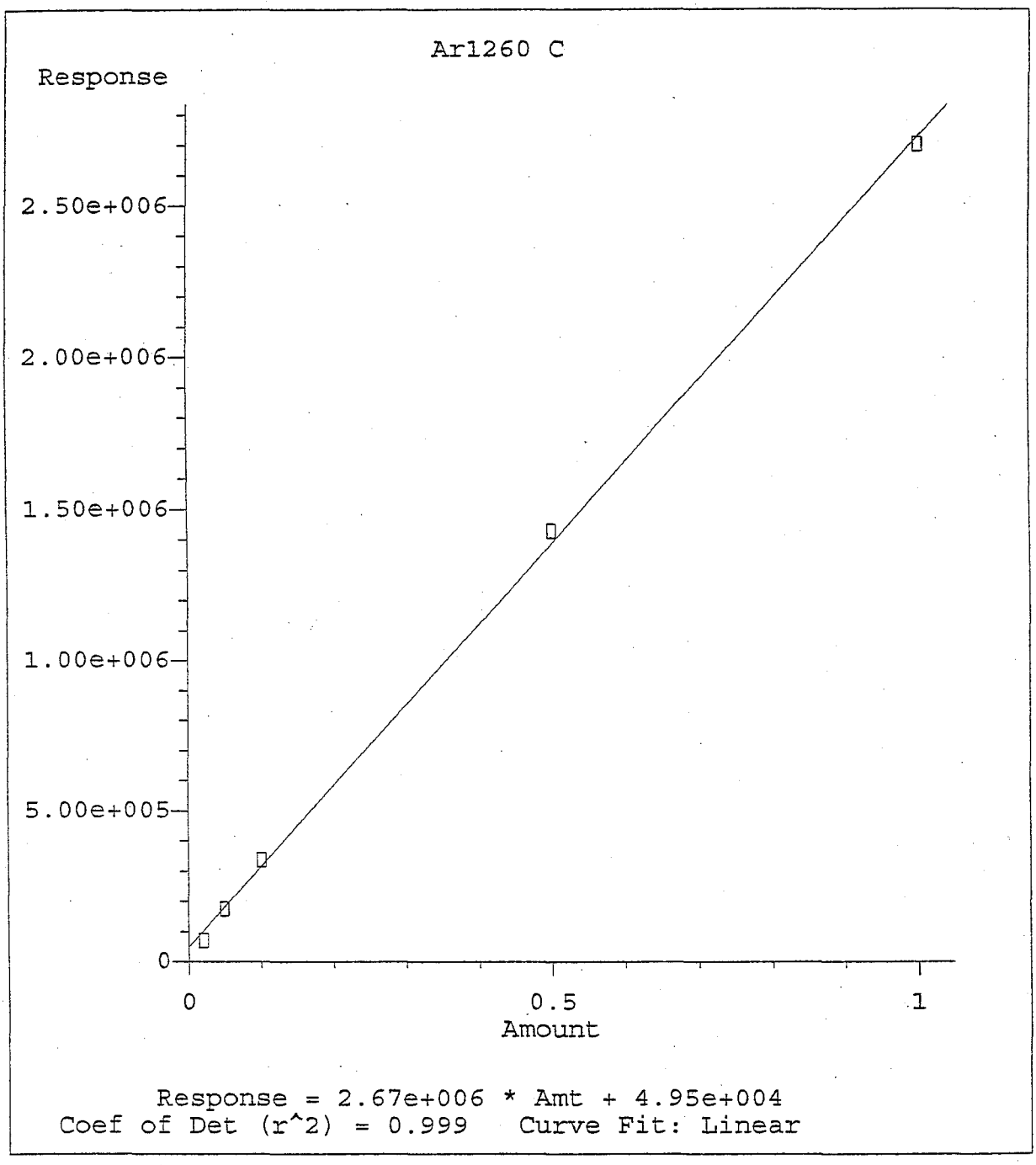
Calibration Table Last Updated: Mon Aug 19 08:41:34 2002



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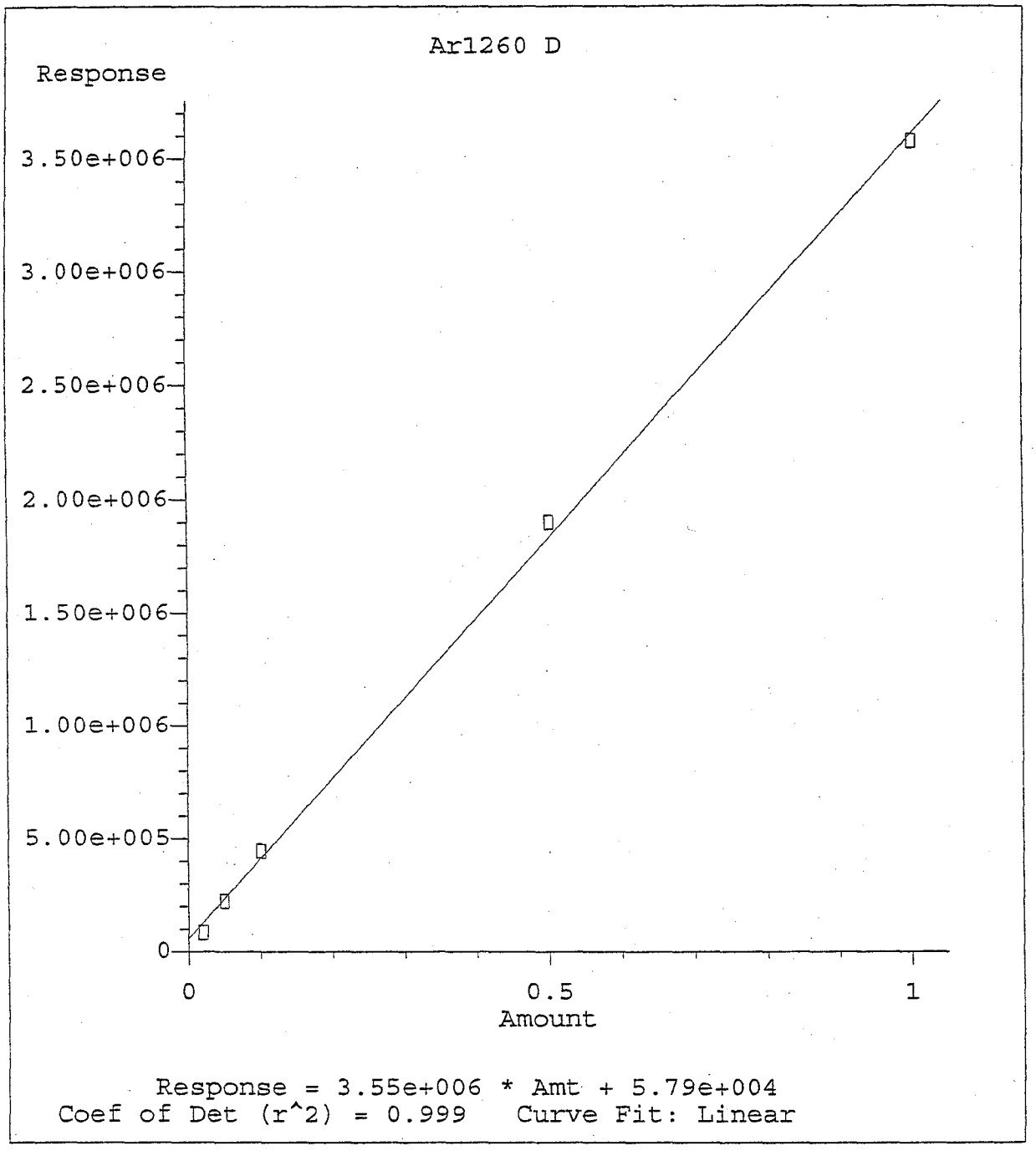

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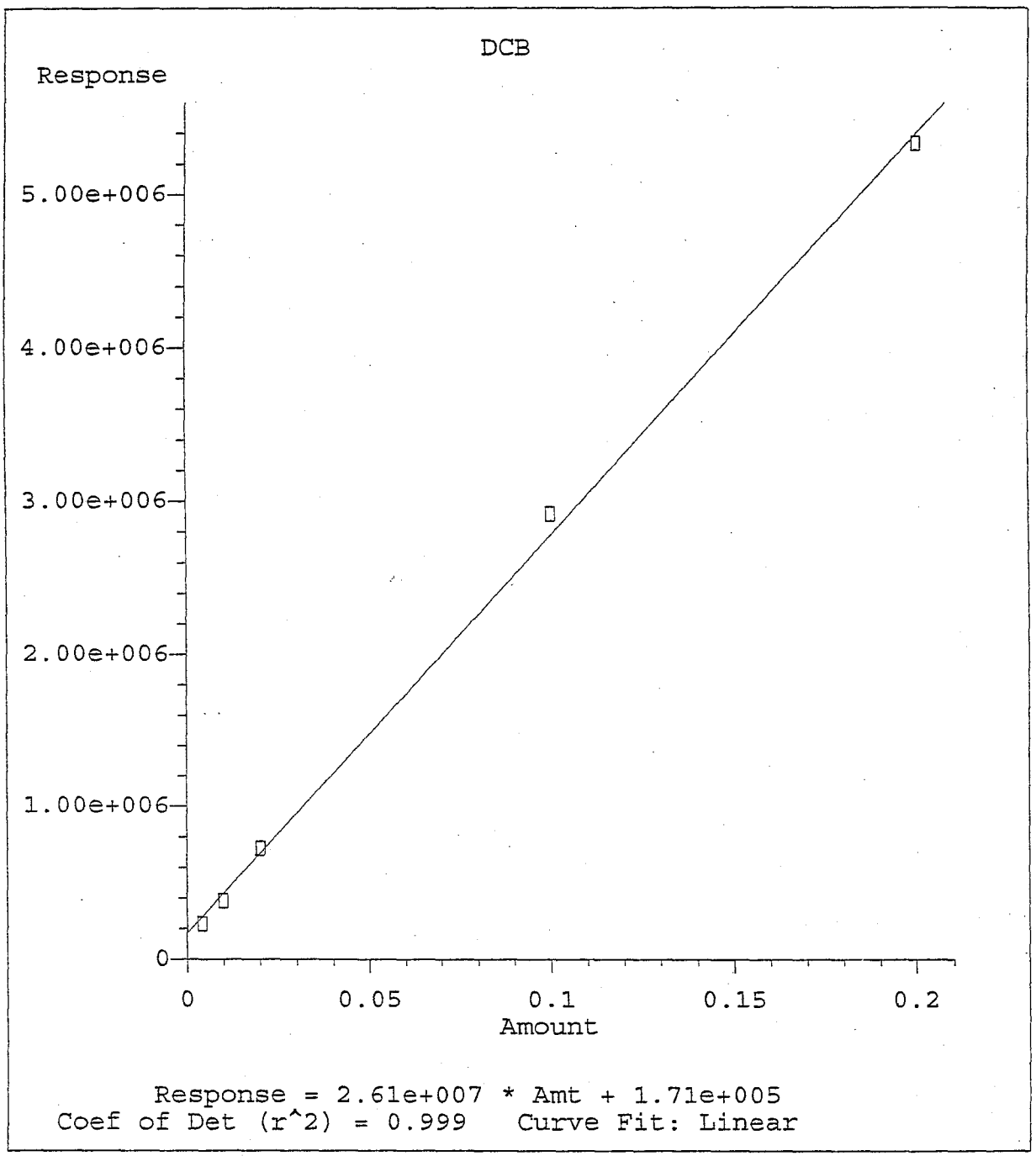

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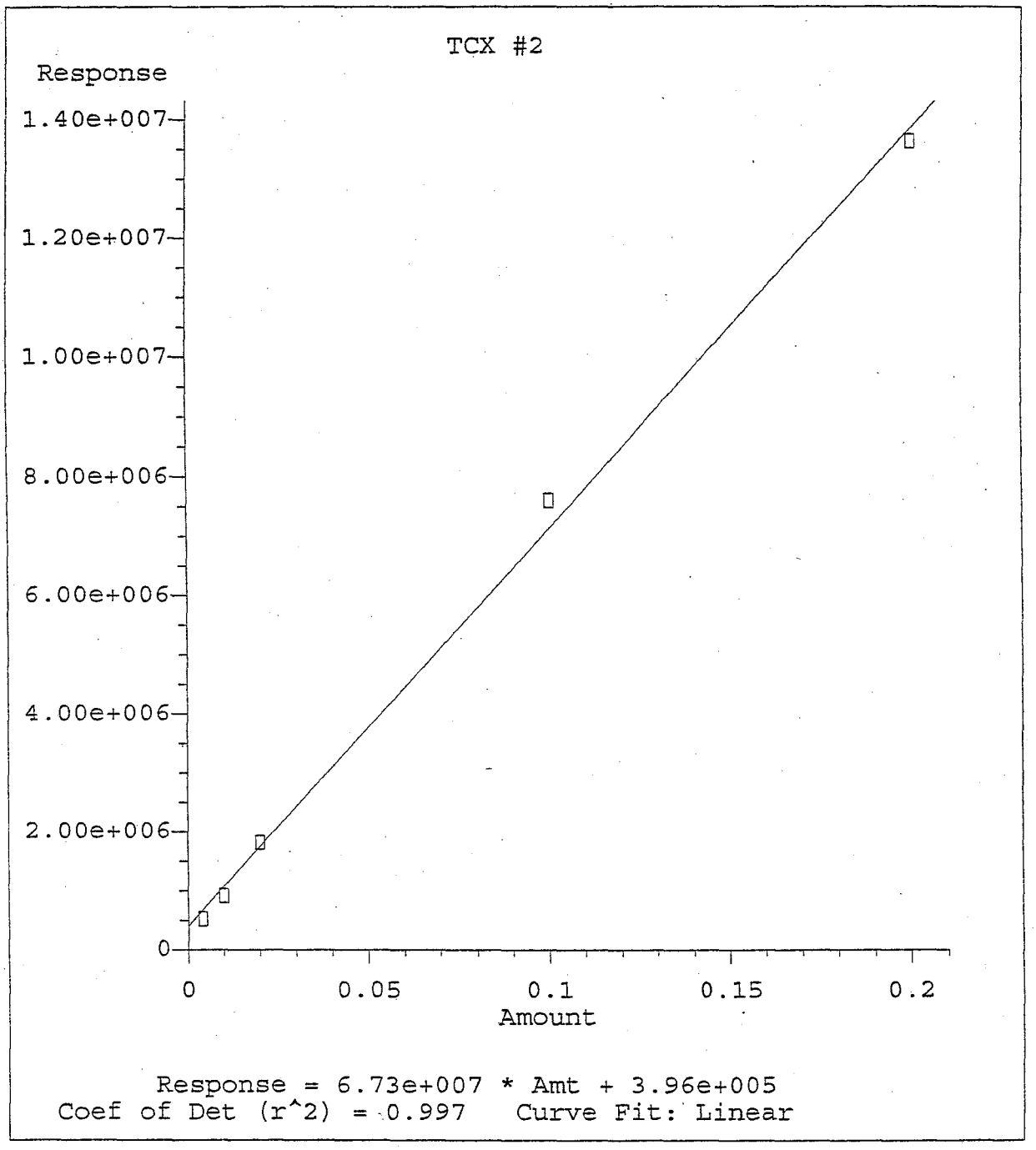

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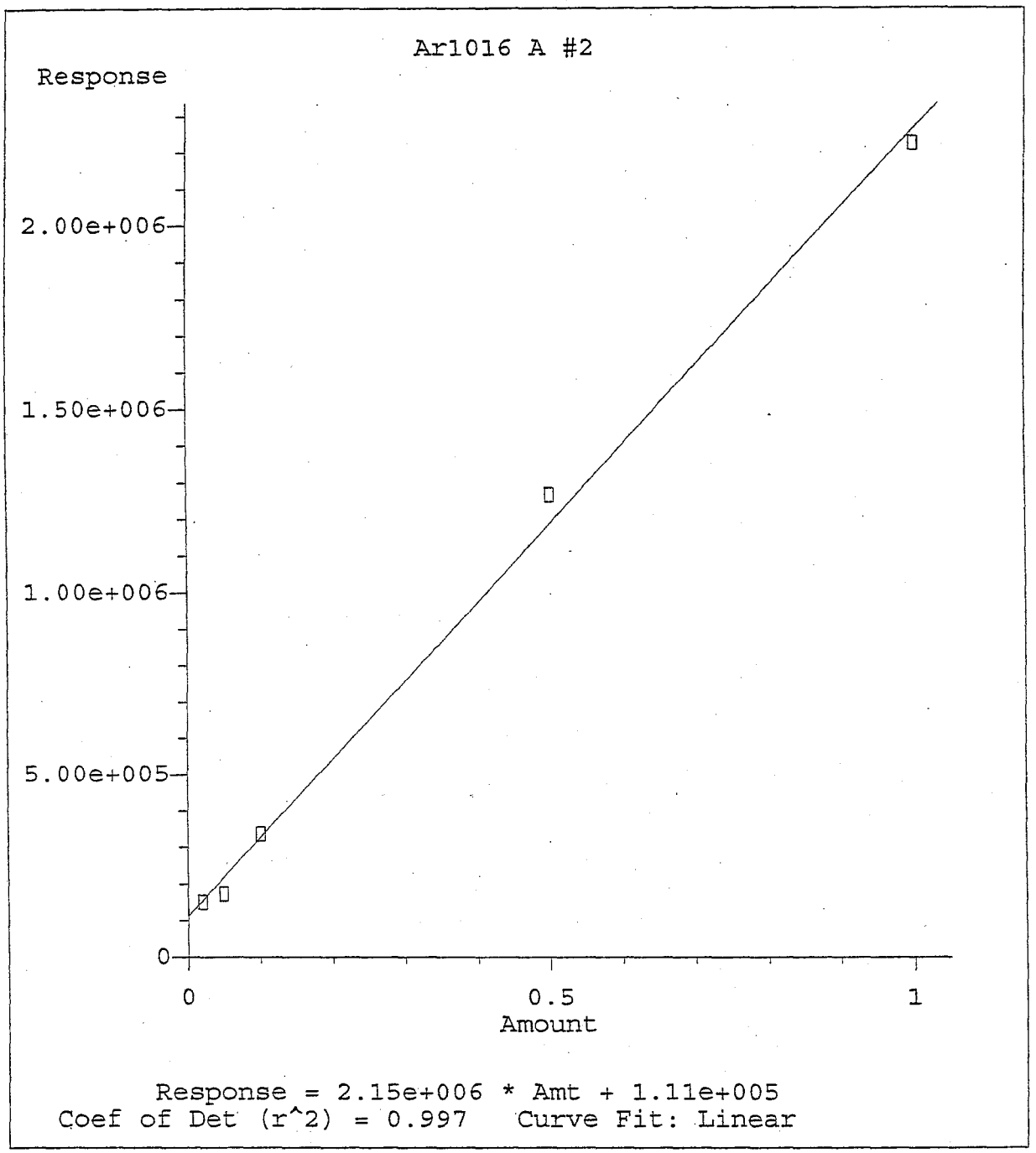

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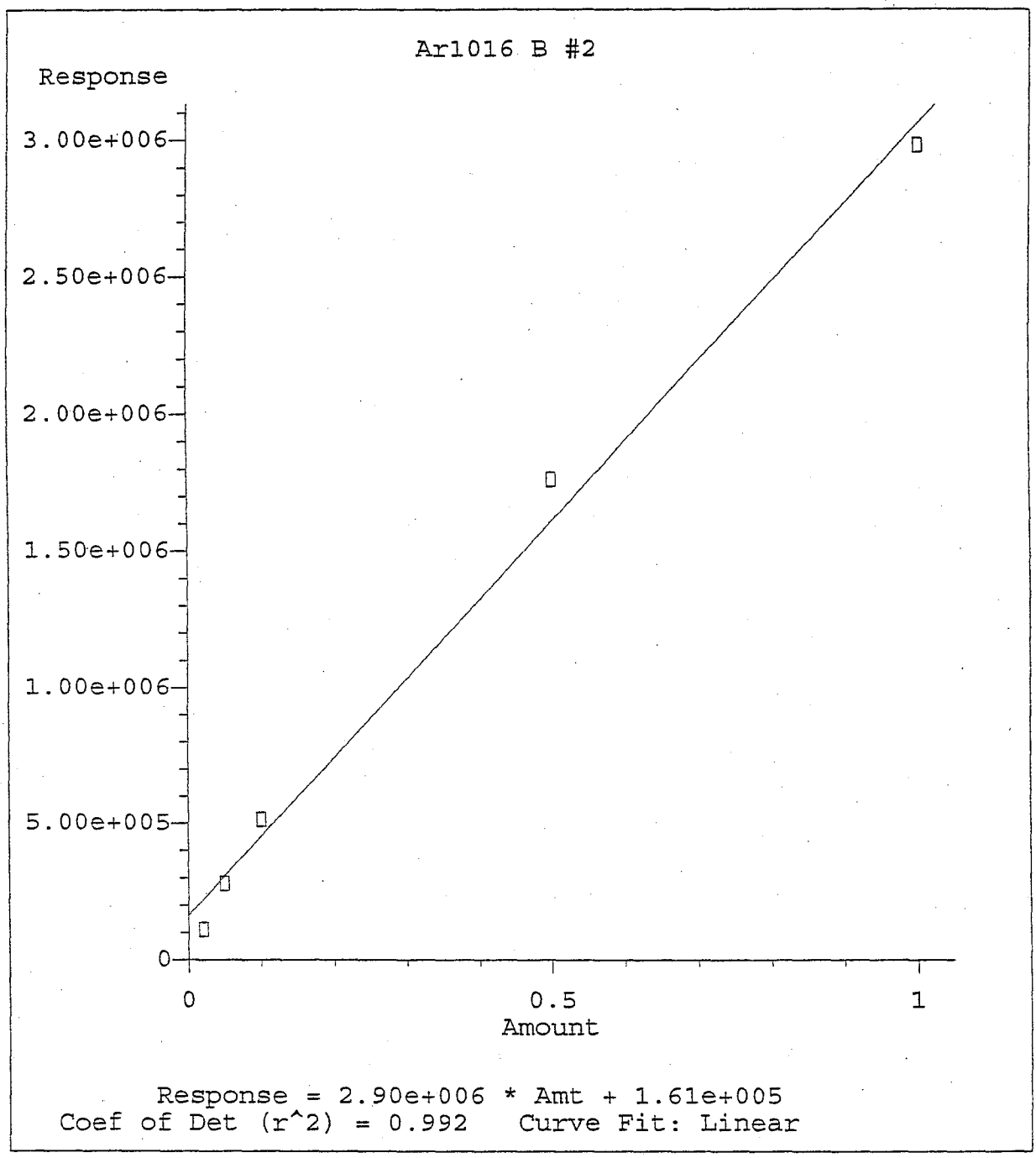

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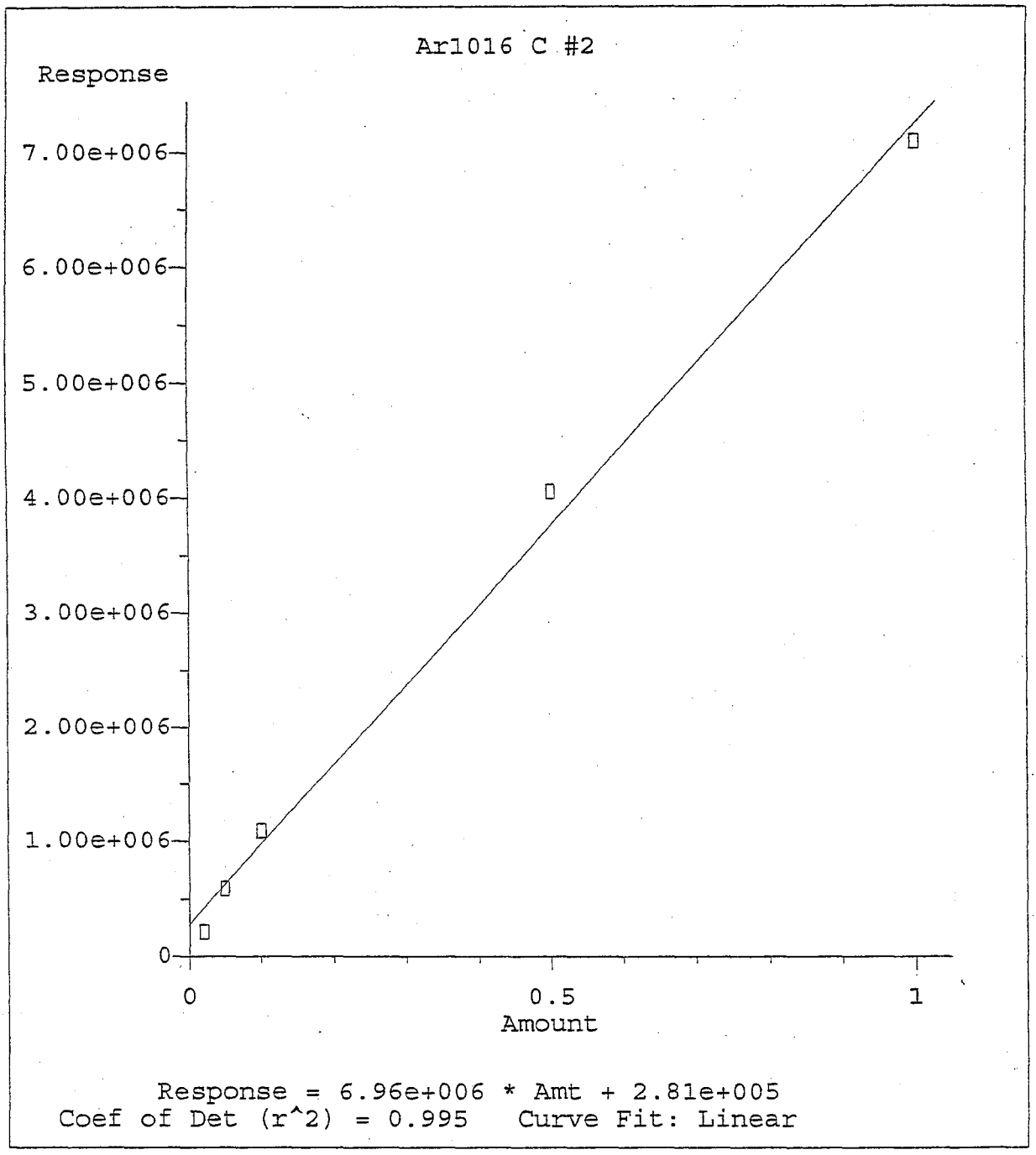
Calibration Table Last Updated: Mon Aug 19 08:41:34 2002



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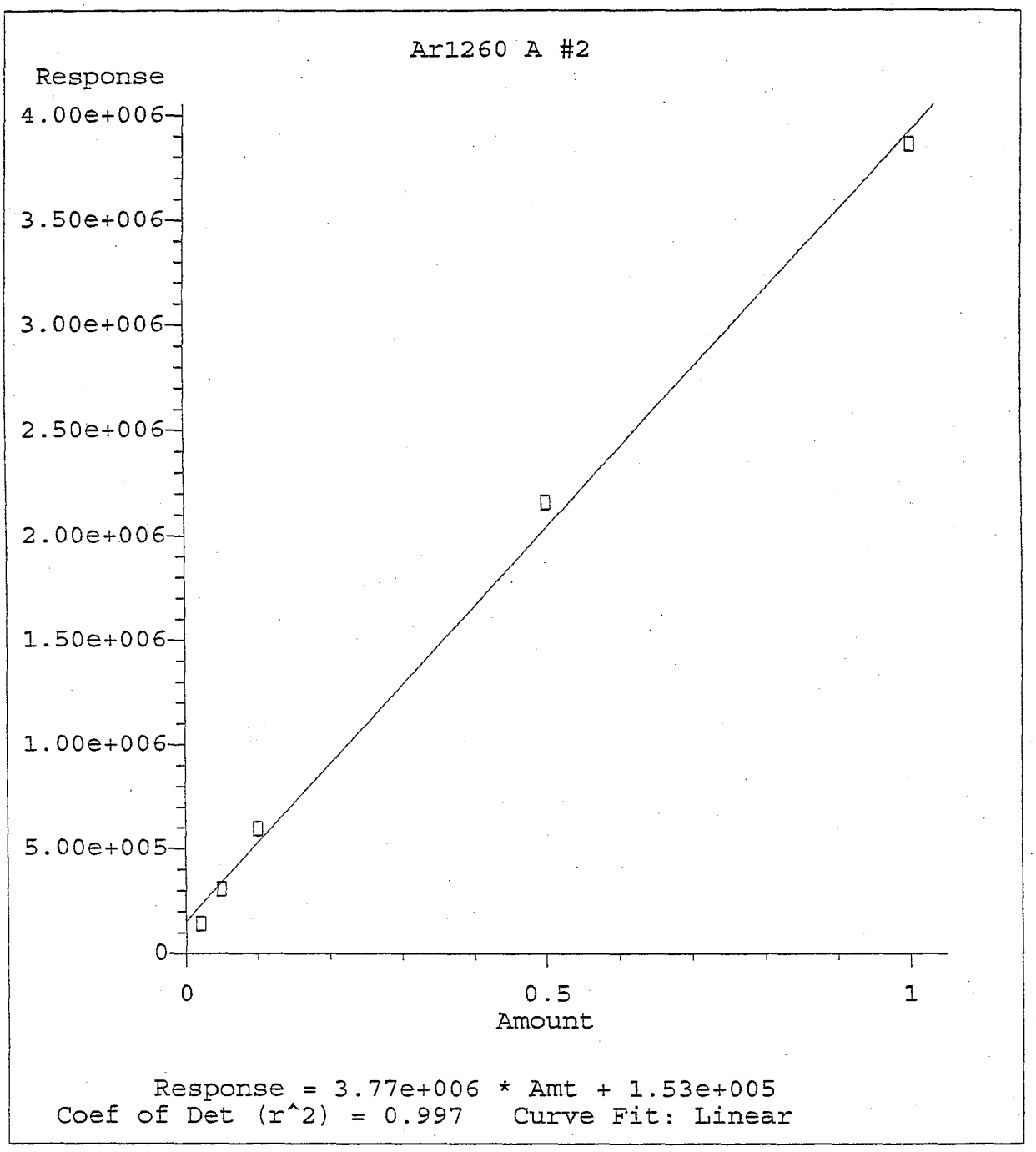

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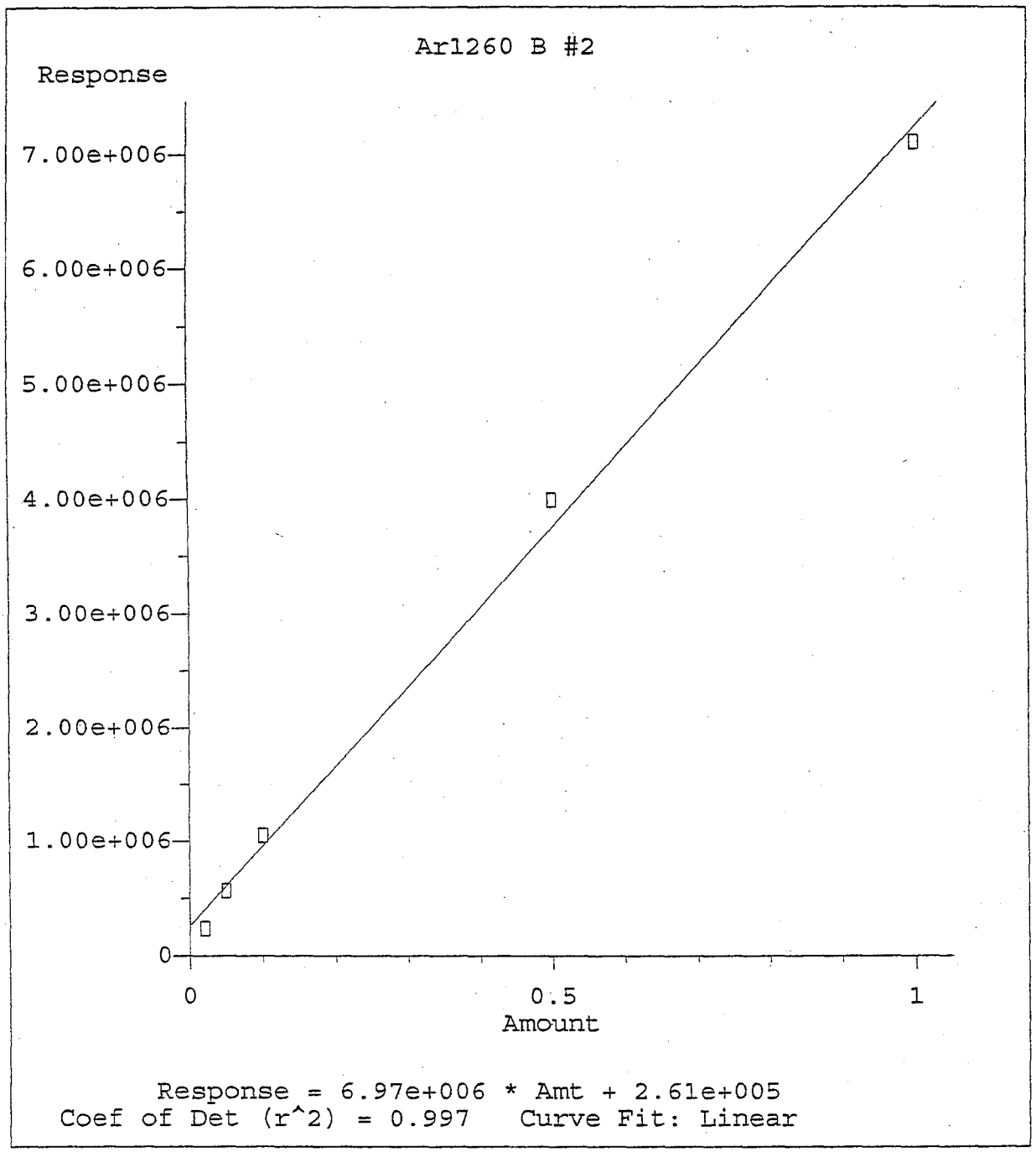
Calibration Table Last Updated: Mon Aug 19 08:41:34 2002



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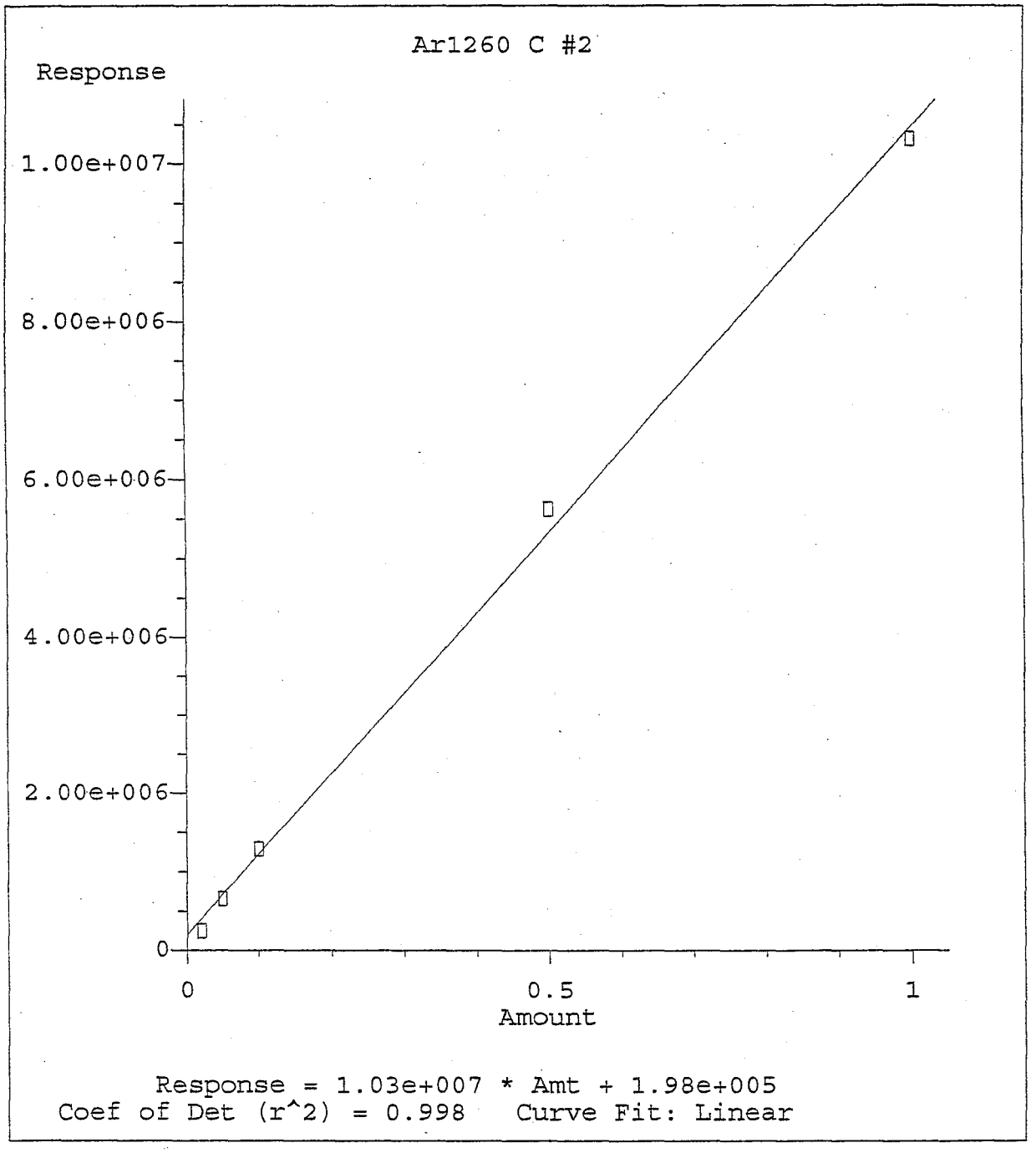

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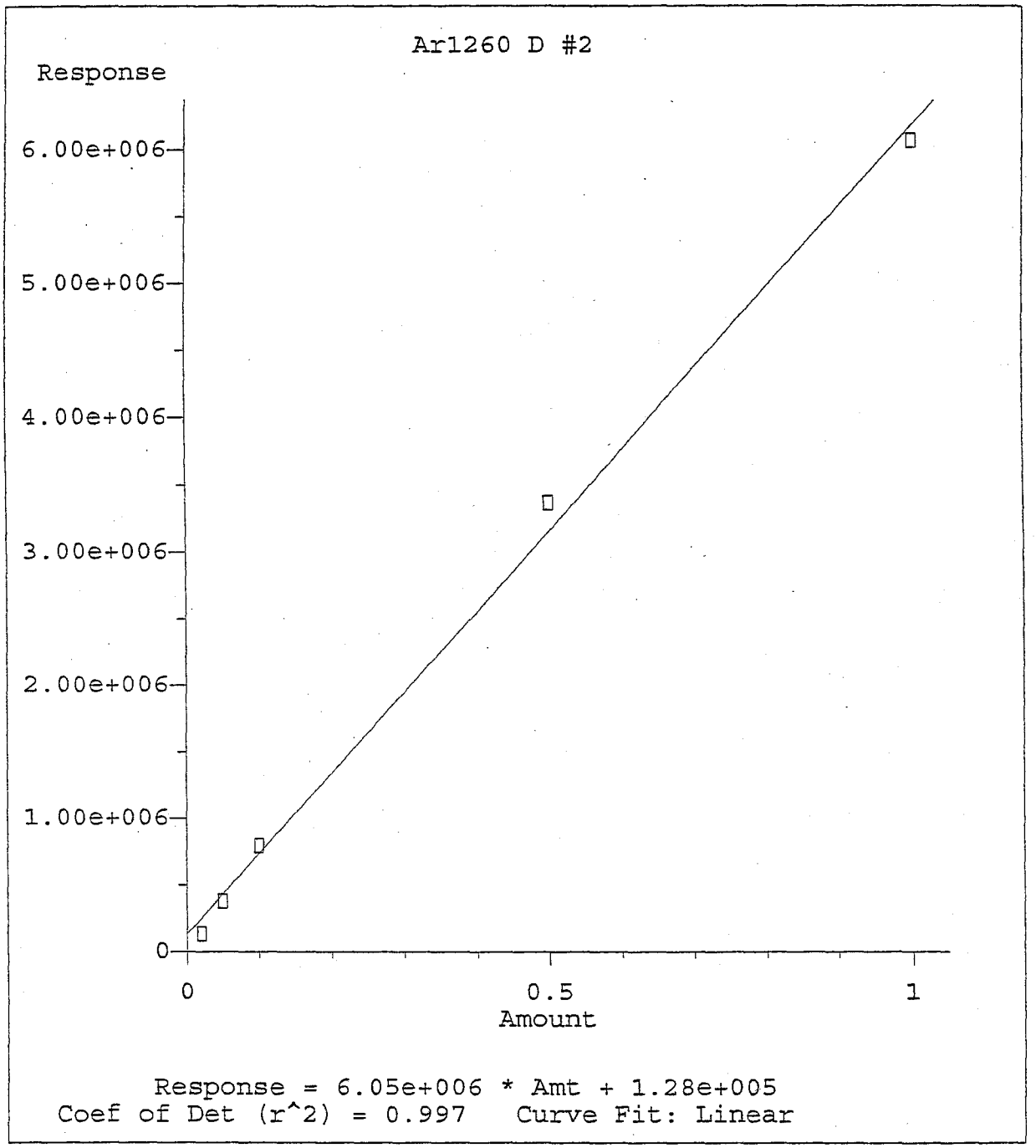

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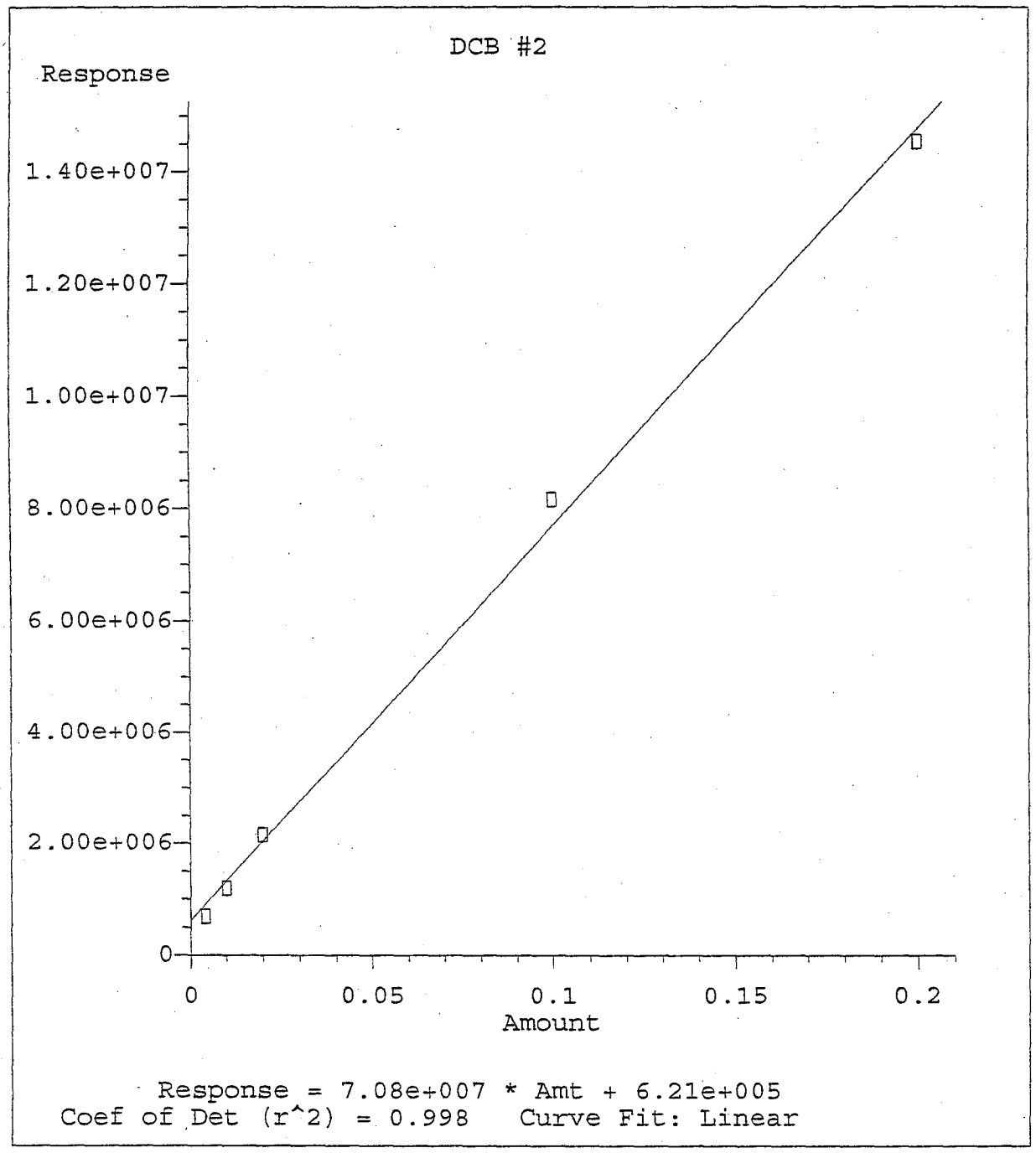


Method Name: D:\HPCHEM\2\METHODS\PBQ8092.M
Calibration Table Last Updated: Mon Aug 19 08:41:34 2002

Quantitation Report (QT Reviewed)

Signal #1 : D:\HPCHEM\2\DATA\080902-F\F26114.D\ECD1A.CH Vial: 1
Signal #2 : D:\HPCHEM\2\DATA\080902-F\F26114.D\ECD2B.CH
Acq On : 9 Aug 2002 3:49 pm Operator:
Sample : P2692 16/60 0.02 Inst : Instrume
Misc : SOIL Multiplr: 1.00
IntFile Signal #1: PCBINT.E IntFile Signal #2: PCBINT2.E
Quant Time: Aug 12 13:18 2002 Quant Results File: PBQ8092.RES

Quant Method : D:\HPCHEM\2\METHODS\PBQ8092.M (Chemstation Integrator)
Title : Aroclor 1016/1260
Last Update : Mon Aug 12 13:13:18 2002
Response via : Initial Calibration
DataAcq Meth : PCB.M

8-12-02

Volume Inj. : 3 ul
Signal #1 Phase : DB-1701 Widebore Signal #2 Phase: DB-5 Widebore
Signal #1 Info : 0.53 mm , 1.0um f Signal #2 Info : 0.53 mm, 1.5um fil

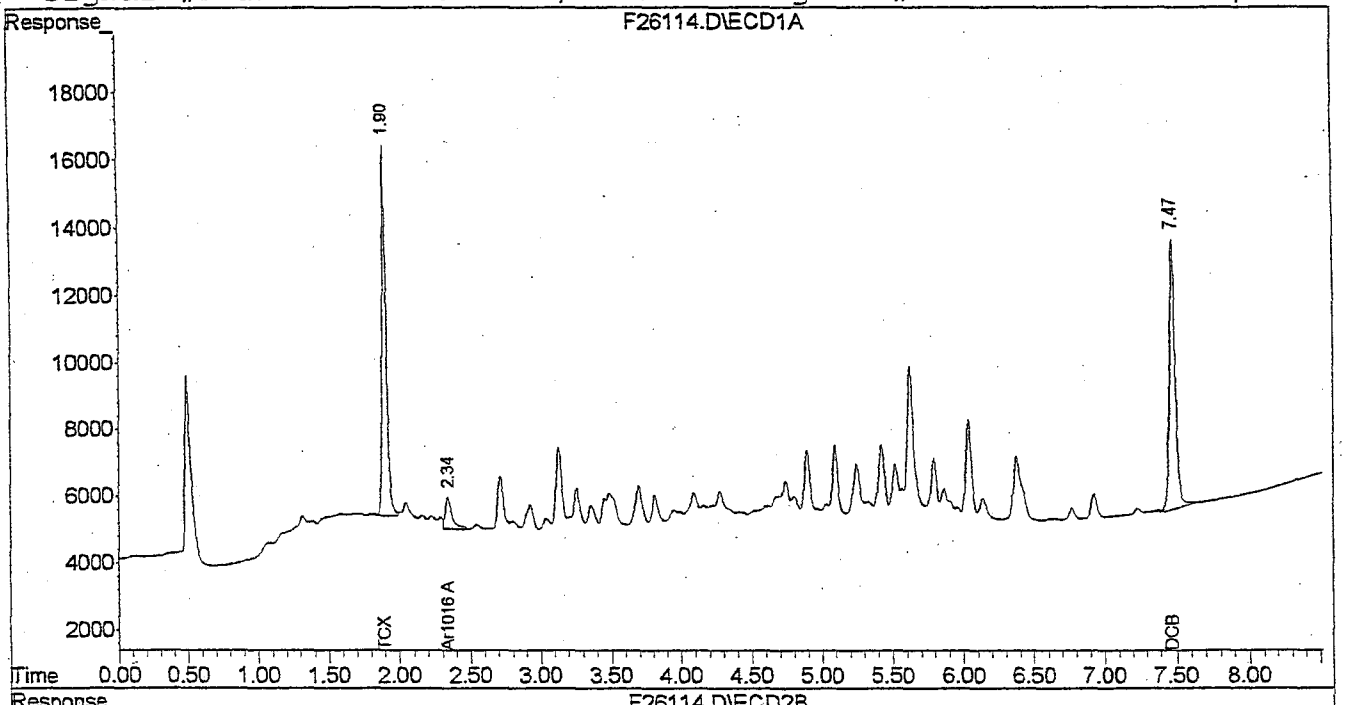
Compound	RT#1	RT#2	Resp#1	Resp#2	ug/ml	ug/ml
System Monitoring Compounds						
1) S TCX	1.90	1.56	232732	521528	0.002m	0.003 #
Spiked Amount	0.100	Range	49 - 134	Recovery	= 2.00%#	3.00%#
9) S DCB	7.47	6.39	231178	691145	0.002m	0.004 #
Spiked Amount	0.100	Range	69 - 155	Recovery	= 2.00%#	4.00%#
Target Compounds						
2) L1 Ar1016 A	2.34	1.82	32315	150562	0.003	0.030m#
3) L1 Ar1016 B	2.71	2.10	45418	111288	N.D.	N.D. m
4) L1 Ar1016 C	3.13	2.47	73920	212558	N.D.	N.D. m
Sum Ar1016 A			32315	150562	N.D.	0.007
Average Ar1016 A					-0.017	0.007
5) L2 Ar1260 A	4.89	4.01	46816	141942	N.D.	N.D. m
6) L2 Ar1260 B	5.09	4.26	52853	236366	N.D.	N.D.
7) L2 Ar1260 C	5.42	5.13	70535	249533	N.D.	N.D.
8) L2 Ar1260 D	6.03	5.38	82331	133774	N.D.	N.D. m
Sum Ar1260 A			0	0	N.D.	N.D.
Average Ar1260 A					0.000	0.000

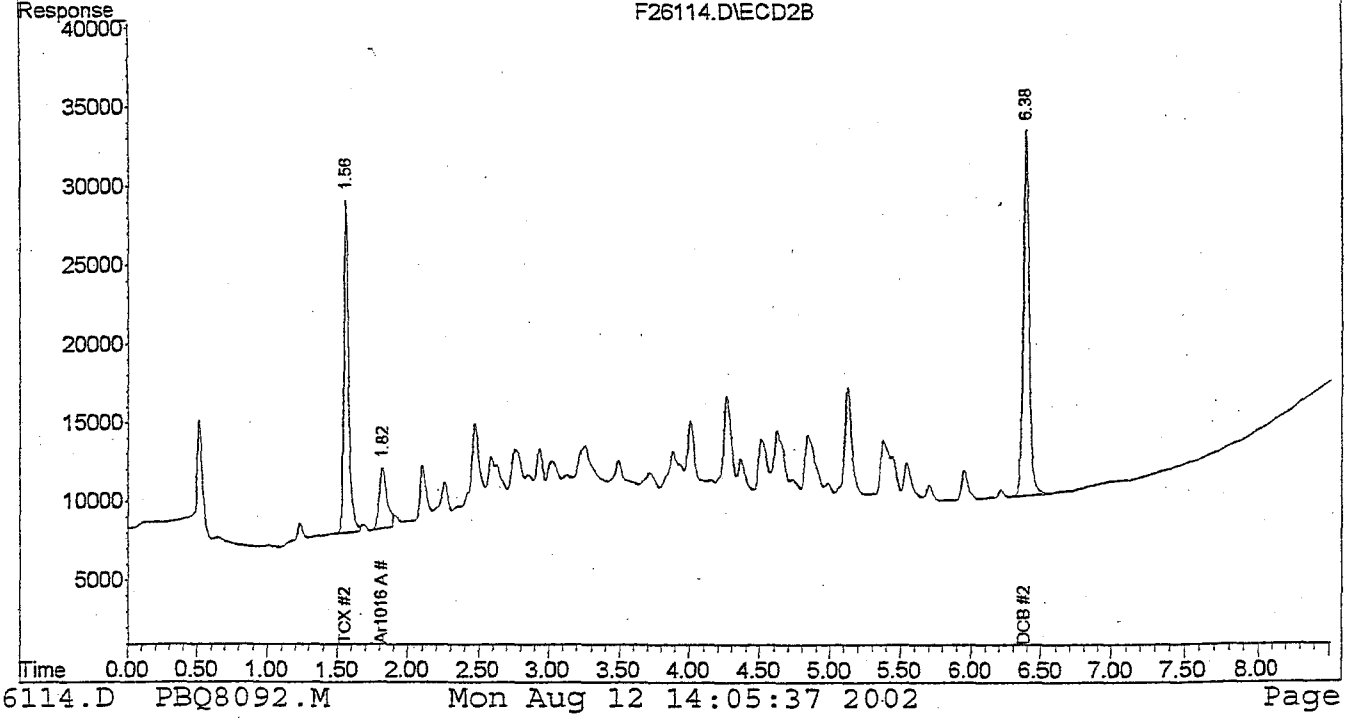
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Signal #1 : D:\HPCHEM\2\DATA\080902-F\F26114.D\ECD1A.CH Vial: 1
Signal #2 : D:\HPCHEM\2\DATA\080902-F\F26114.D\ECD2B.CH
Acq On : 9 Aug 2002 3:49 pm Operator:
Sample : P2692 16/60 0.02 Inst : Instrume
Misc : SOIL Multiplr: 1.00
IntFile Signal #1: PCBINT.E IntFile Signal #2: PCBINT2.E
Quant Time: Aug 12 13:18 2002 Quant Results File: PBQ8092.RES

Quant Method : D:\HPCHEM\2\METHODS\PBQ8092.M (Chemstation Integrator)
Title : Aroclor 1016/1260
Last Update : Mon Aug 12 13:13:18 2002
Response via : Multiple Level Calibration
DataAcq Meth : PCB.M

Volume Inj. : 3 ul
Signal #1 Phase : DB-1701 Widebore Signal #2 Phase: DB-5 Widebore
Signal #1 Info : 0.53 mm , 1.0um f Signal #2 Info : 0.53 mm, 1.5um fil





Signal #1 : D:\HPCHEM\2\DATA\080902-F\F26115.D\ECD1A.CH Vial: 2
Signal #2 : D:\HPCHEM\2\DATA\080902-F\F26115.D\ECD2B.CH
Acq On : 9 Aug 2002 4:01 pm Operator:
Sample : P2693 16/60 0.05 Inst : Instrume
Misc : SOIL Multiplr: 1.00
IntFile Signal #1: PCBINT.E IntFile Signal #2: PCBINT2.E
Quant Time: Aug 12 13:18 2002 Quant Results File: PBQ8092.RES

Quant Method : D:\HPCHEM\2\METHODS\PBQ8092.M (Chemstation Integrator)
Title : Aroclor 1016/1260
Last Update : Mon Aug 12 13:13:18 2002
Response via : Initial Calibration
DataAcq Meth : PCB.M

8-12-02

Volume Inj. : 3 ul
Signal #1 Phase : DB-1701 Widebore Signal #2 Phase: DB-5 Widebore
Signal #1 Info : 0.53 mm , 1.0um f Signal #2 Info : 0.53 mm, 1.5um fil

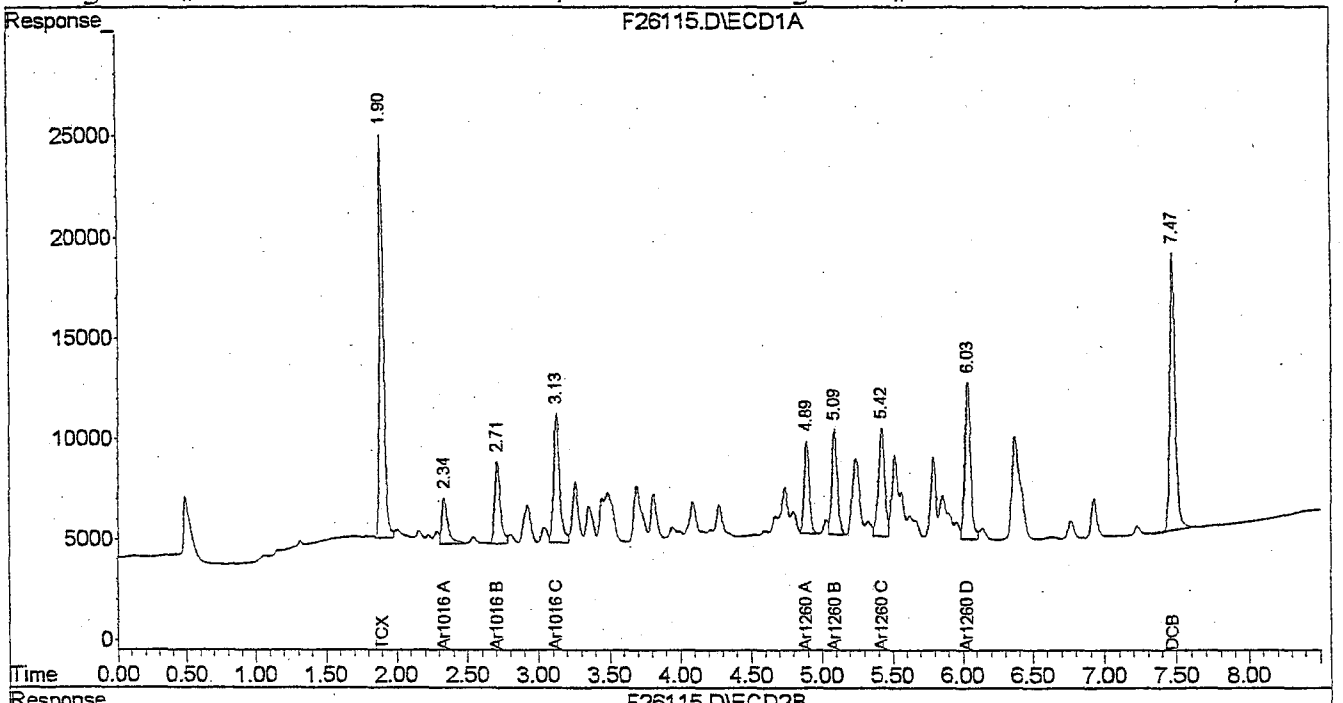
Compound	RT#1	RT#2	Resp#1	Resp#2	ug/ml	ug/ml
System Monitoring Compounds						
1) S TCX	1.90	1.56	412178	911635	0.008m	0.010
Spiked Amount 0.100 Range 49 - 134 Recovery =					8.00%#	10.00%#
9) S DCB	7.47	6.39	381659	1192312	0.008	0.012 #
Spiked Amount 0.100 Range 69 - 155 Recovery =					8.00%#	12.00%#
Target Compounds						
2) L1 Ar1016 A	2.34	1.83	69131	172007	0.050	0.041
3) L1 Ar1016 B	2.71	2.10	114478	278479	0.032	0.046 #
4) L1 Ar1016 C	3.13	2.47	191256	584549	0.035	0.050 #
Sum Ar1016 A			374866	1035035	0.116	0.138
Average Ar1016 A					0.039	0.046
5) L2 Ar1260 A	4.89	4.01	120977	306946	0.024	0.049m#
6) L2 Ar1260 B	5.09	4.26	140307	564690	0.027	0.045 #
7) L2 Ar1260 C	5.42	5.13	174517	654748	0.030	0.044 #
8) L2 Ar1260 D	6.03	5.38	220944	376908	0.030	0.040m#
Sum Ar1260 A			656745	1903292	0.111	0.178
Average Ar1260 A					0.028	0.044

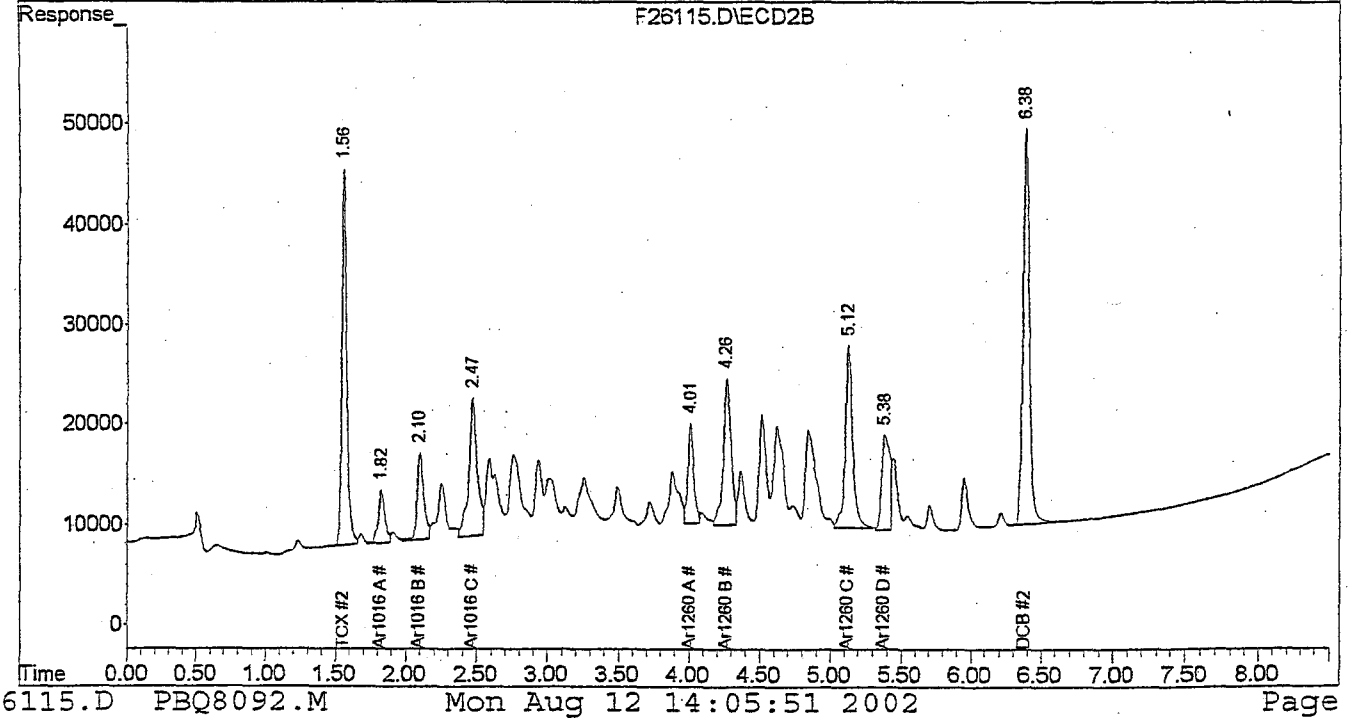
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Signal #1 : D:\HPCHEM\2\DATA\080902-F\F26115.D\ECD1A.CH Vial: 2
Signal #2 : D:\HPCHEM\2\DATA\080902-F\F26115.D\ECD2B.CH
Acq On : 9 Aug 2002 4:01 pm Operator:
Sample : P2693 16/60 0.05 Inst : Instrume
Misc : SOIL Multiplr: 1.00
IntFile Signal #1: PCBINT.E IntFile Signal #2: PCBINT2.E
Quant Time: Aug 12 13:18 2002 Quant Results File: PBQ8092.RES

Quant Method : D:\HPCHEM\2\METHODS\PBQ8092.M (Chemstation Integrator)
Title : Aroclor 1016/1260
Last Update : Mon Aug 12 13:13:18 2002
Response via : Multiple Level Calibration
DataAcq Meth : PCB.M

Volume Inj. : 3 ul
Signal #1 Phase : DB-1701 Widebore Signal #2 Phase: DB-5 Widebore
Signal #1 Info : 0.53 mm , 1.0um f Signal #2 Info : 0.53 mm, 1.5um fil





Signal #1 : D:\HPCHEM\2\DATA\080902-F\F26116.D\ECD1A.CH Vial: 3
Signal #2 : D:\HPCHEM\2\DATA\080902-F\F26116.D\ECD2B.CH
Acq On : 9 Aug 2002 4:13 pm Operator:
Sample : P2694 16/60 0.1 Inst : Instrume
Misc : SOIL Multiplr: 1.00
IntFile Signal #1: PCBINT.E IntFile Signal #2: PCBINT2.E
Quant Time: Aug 12 13:18 2002 Quant Results File: PBQ8092.RES

Quant Method : D:\HPCHEM\2\METHODS\PBQ8092.M (Chemstation Integrator)
Title : Aroclor 1016/1260
Last Update : Mon Aug 12 13:13:18 2002
Response via : Initial Calibration
DataAcq Meth : PCB.M

8-12-02

Volume Inj. : 3 ul
Signal #1 Phase : DB-1701 Widebore Signal #2 Phase: DB-5 Widebore
Signal #1 Info : 0.53 mm , 1.0um f Signal #2 Info : 0.53 mm, 1.5um fil

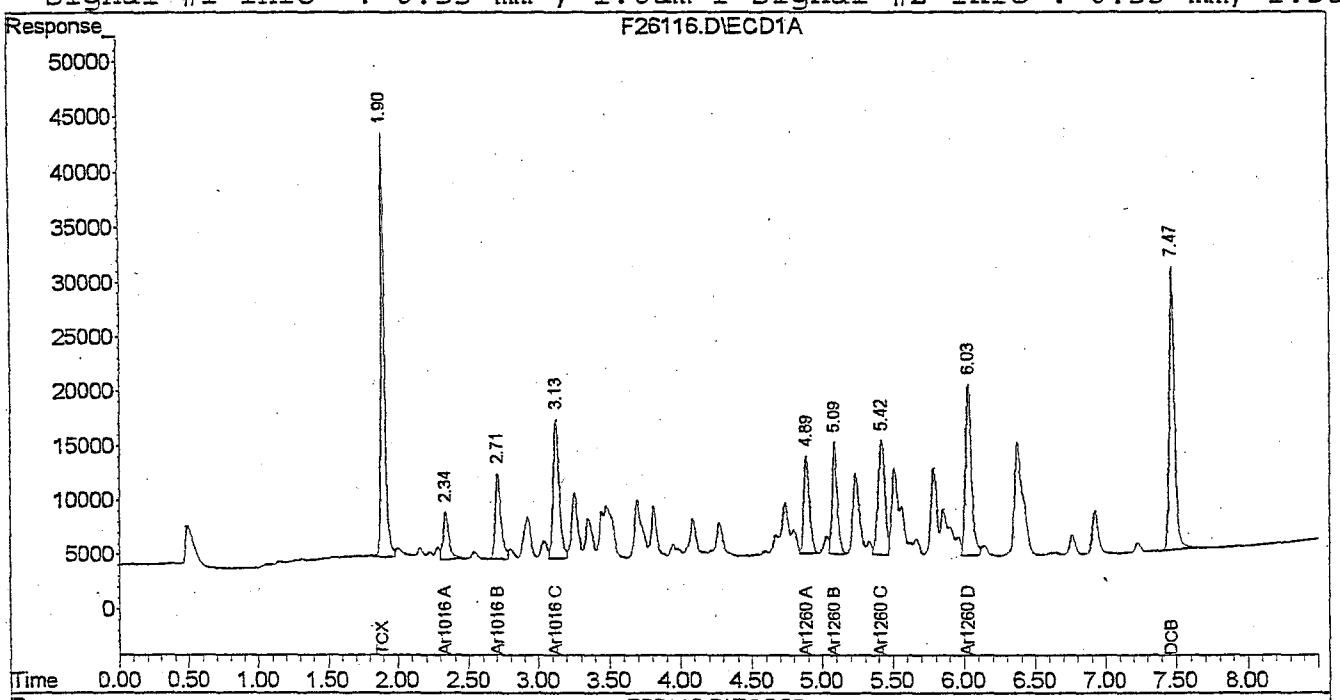
Compound	RT#1	RT#2	Resp#1	Resp#2	ug/ml	ug/ml
System Monitoring Compounds						
1) S TCX	1.90	1.56	803294	1805928	0.022m	0.025
Spiked Amount	0.100	Range	49 - 134	Recovery	= 22.00%#	25.00%#
9) S DCB	7.47	6.39	723707	2154467	0.022	0.029 #
Spiked Amount	0.100	Range	69 - 155	Recovery	= 22.00%#	29.00%#
Target Compounds						
2) L1 Ar1016 A	2.34	1.83	127214	335072	0.124	0.122
3) L1 Ar1016 B	2.71	2.10	222383	512355	0.103	0.134 #
4) L1 Ar1016 C	3.13	2.47	378525	1086070	0.100	0.128 #
Sum Ar1016 A			728122	1933497	0.326	0.384
Average Ar1016 A					0.109	0.128
5) L2 Ar1260 A	4.89	4.01	236989	593652	0.087	0.136m#
6) L2 Ar1260 B	5.09	4.26	275841	1049115	0.089	0.122 #
7) L2 Ar1260 C	5.42	5.12	337399	1288851	0.087	0.112 #
8) L2 Ar1260 D	6.03	5.38	442539	795200	0.089	0.114m#
Sum Ar1260 A			1292768	3726818	0.352	0.484
Average Ar1260 A					0.088	0.121

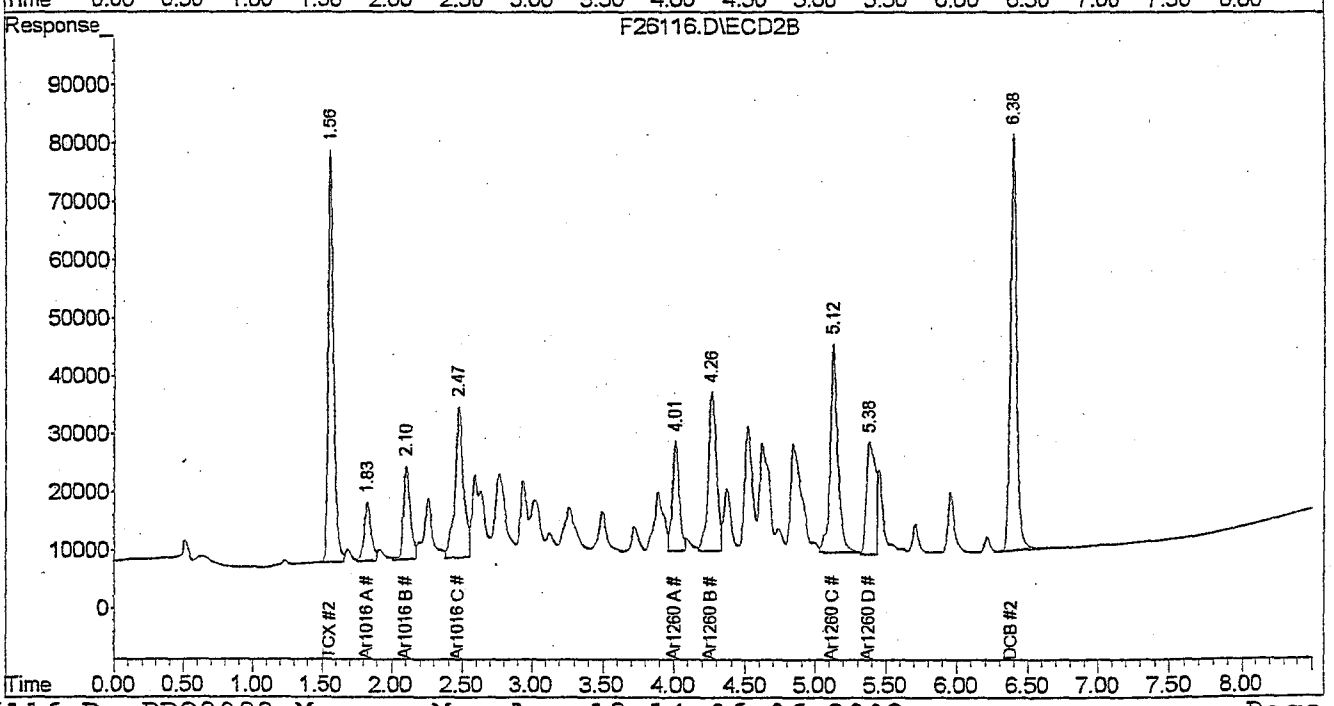
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Signal #1 : D:\HPCHEM\2\DATA\080902-F\F26116.D\ECD1A.CH Vial: 3
Signal #2 : D:\HPCHEM\2\DATA\080902-F\F26116.D\ECD2B.CH
Acq On : 9 Aug 2002 4:13 pm Operator:
Sample : P2694 16/60 0.1 Inst : Instrume
Misc : SOIL Multiplr: 1.00
IntFile Signal #1: PCBINT.E IntFile Signal #2: PCBINT2.E
Quant Time: Aug 12 13:18 2002 Quant Results File: PBQ8092.RES

Quant Method : D:\HPCHEM\2\METHODS\PBQ8092.M (Chemstation Integrator)
Title : Aroclor 1016/1260
Last Update : Mon Aug 12 13:13:18 2002
Response via : Multiple Level Calibration
DataAcq Meth : PCB.M

Volume Inj. : 3 ul
Signal #1 Phase : DB-1701 Widebore Signal #2 Phase: DB-5 Widebore
Signal #1 Info : 0.53 mm , 1.0um f Signal #2 Info : 0.53 mm, 1.5um fil





Signal #1 : D:\HPCHEM\2\DATA\080902-F\F26117.D\ECD1A.CH Vial: 4
Signal #2 : D:\HPCHEM\2\DATA\080902-F\F26117.D\ECD2B.CH
Acq On : 9 Aug 2002 4:24 pm Operator:
Sample : P2695 16/60 0.5 Inst : Instrume
Misc : SOIL Multiplr: 1.00
IntFile Signal #1: PCBINT.E IntFile Signal #2: PCBINT2.E
Quant Time: Aug 12 13:17 2002 Quant Results File: PBQ8092.RES

Quant Method : D:\HPCHEM\2\METHODS\PBQ8092.M (Chemstation Integrator)
Title : Aroclor 1016/1260
Last Update : Mon Aug 12 13:13:18 2002
Response via : Initial Calibration
DataAcq Meth : PCB.M

8-12-02

Volume Inj. : 3 ul
Signal #1 Phase : DB-1701 Widebore Signal #2 Phase: DB-5 Widebore
Signal #1 Info : 0.53 mm , 1.0um f Signal #2 Info : 0.53 mm, 1.5um fil

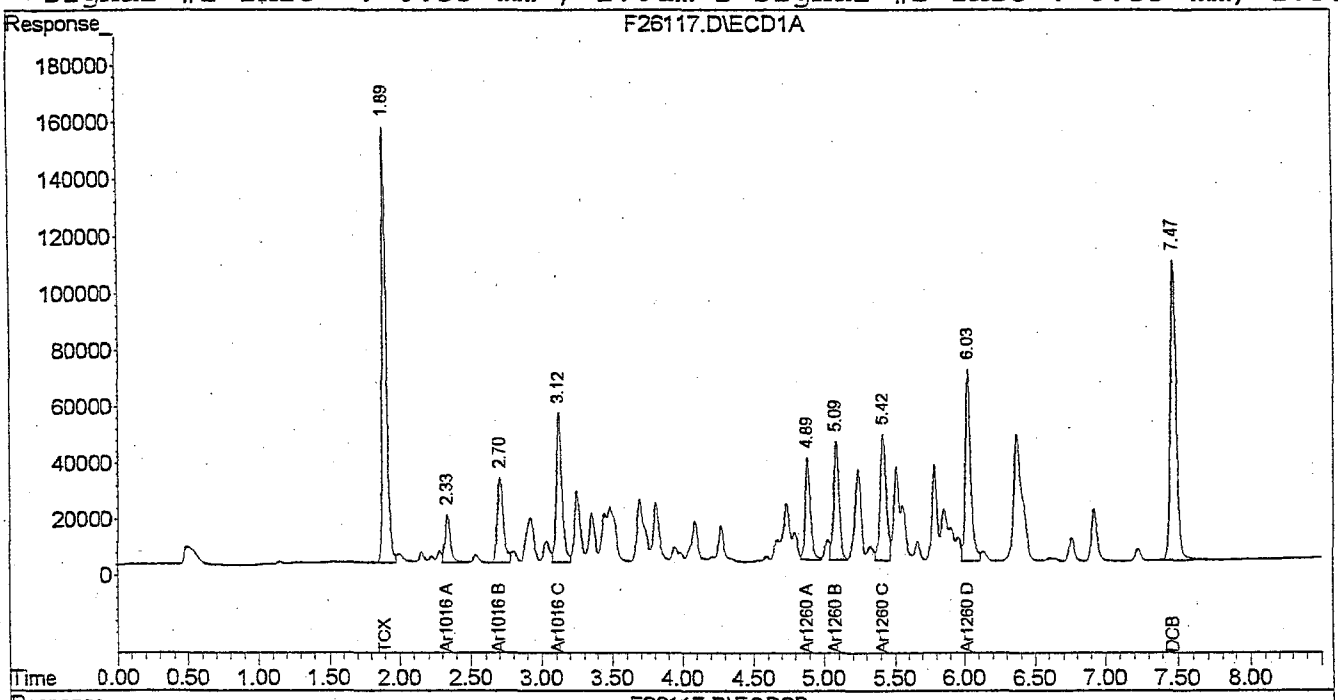
Compound	RT#1	RT#2	Resp#1	Resp#2	ug/ml	ug/ml
System Monitoring Compounds						
1) S TCX	1.90	1.56	3396011	7595967	0.111	0.122
Spiked Amount	0.100	Range	49 - 134	Recovery	= 111.00%	122.00%
9) S DCB	7.47	6.38	2915432	8159223	0.109	0.131
Spiked Amount	0.100	Range	69 - 155	Recovery	= 109.00%	131.00%
Target Compounds						
2) L1 Ar1016 A	2.34	1.83	463250	1265904	0.552	0.584
3) L1 Ar1016 B	2.71	2.10	854814	1763023	0.519	0.606
4) L1 Ar1016 C	3.12	2.47	1565361	4055378	0.508	0.586
Sum Ar1016 A			2883424	7084306	1.579	1.775
Average Ar1016 A					0.526	0.592
5) L2 Ar1260 A	4.89	4.00	953646	2157442	0.474	0.609m#
6) L2 Ar1260 B	5.09	4.26	1117749	3991053	0.479	0.589
7) L2 Ar1260 C	5.42	5.12	1429633	5623289	0.467	0.582
8) L2 Ar1260 D	6.03	5.38	1900157	3370156	0.474	0.568
Sum Ar1260 A			5401185	15141940	1.894	2.348
Average Ar1260 A					0.474	0.587

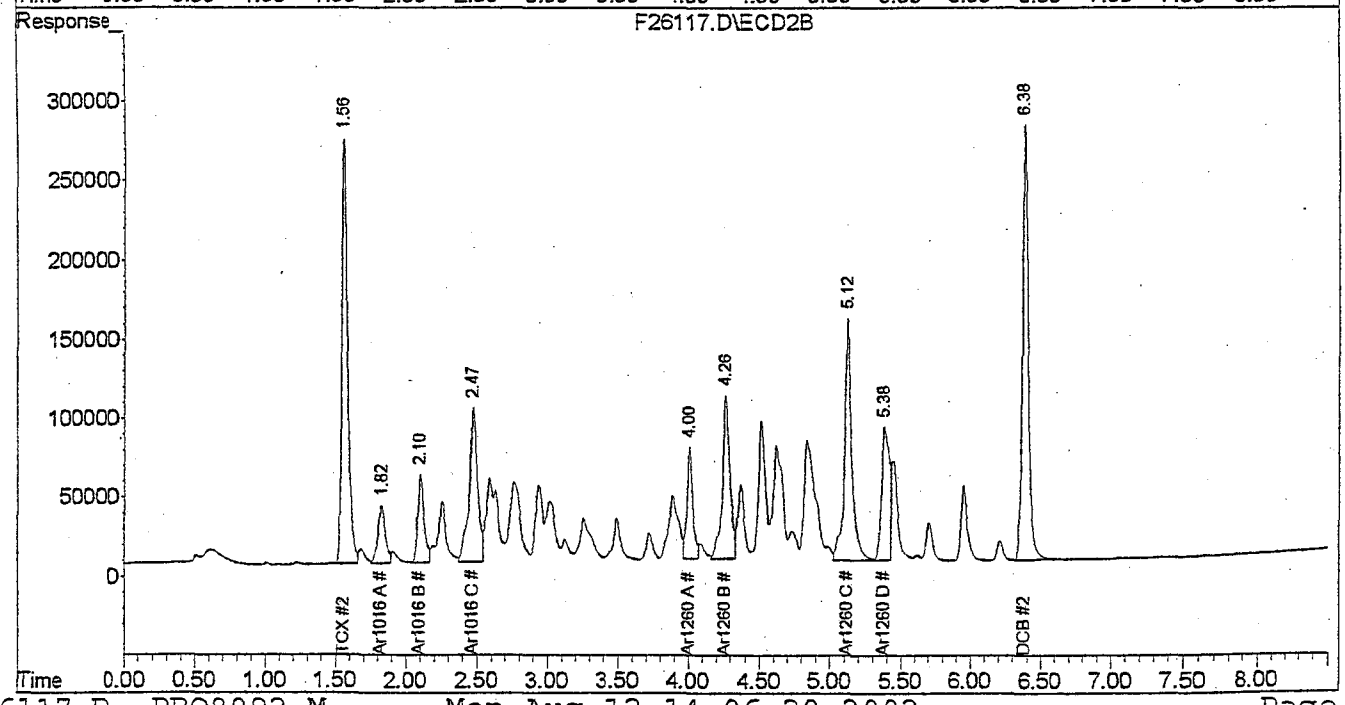
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Signal #1 : D:\HPCHEM\2\DATA\080902-F\F26117.D\ECD1A.CH Vial: 4
Signal #2 : D:\HPCHEM\2\DATA\080902-F\F26117.D\ECD2B.CH
Acq On : 9 Aug 2002 4:24 pm Operator:
Sample : P2695 16/60 0.5 Inst : Instrume
Misc : SOIL Multiplr: 1.00
IntFile Signal #1: PCBINT.E IntFile Signal #2: PCBINT2.E
Quant Time: Aug 12 13:17 2002 Quant Results File: PBQ8092.RES

Quant Method : D:\HPCHEM\2\METHODS\PBQ8092.M (Chemstation Integrator)
Title : Aroclor 1016/1260
Last Update : Mon Aug 12 13:13:18 2002
Response via : Multiple Level Calibration
DataAcq Meth : PCB.M

Volume Inj. : 3 ul
Signal #1 Phase : DB-1701 Widebore Signal #2 Phase: DB-5 Widebore
Signal #1 Info : 0.53 mm , 1.0um f Signal #2 Info : 0.53 mm, 1.5um fil





Quantitation Report (Not Reviewed)

Signal #1 : D:\HPCHEM\2\DATA\080902-F\F26118.D\ECD1A.CH Vial: 5
Signal #2 : D:\HPCHEM\2\DATA\080902-F\F26118.D\ECD2B.CH
Acq On : 9 Aug 2002 4:36 pm Operator:
Sample : P2696 16/60 1.0 Inst : Instrume
Misc : SOIL Multiplr: 1.00
IntFile Signal #1: PCBINT.E IntFile Signal #2: PCBINT2.E
Quant Time: Aug 12 13:21 2002 Quant Results File: PBQ8092.RES

Quant Method : D:\HPCHEM\2\METHODS\PBQ8092.M (Chemstation Integrator)
Title : Aroclor 1016/1260
Last Update : Mon Aug 12 13:18:55 2002
Response via : Initial Calibration
DataAcq Meth : PCB.M

8-12-02

Volume Inj. : 3 ul
Signal #1 Phase : DB-1701 Widebore Signal #2 Phase: DB-5 Widebore
Signal #1 Info : 0.53 mm , 1.0um f Signal #2 Info : 0.53 mm, 1.5um fil

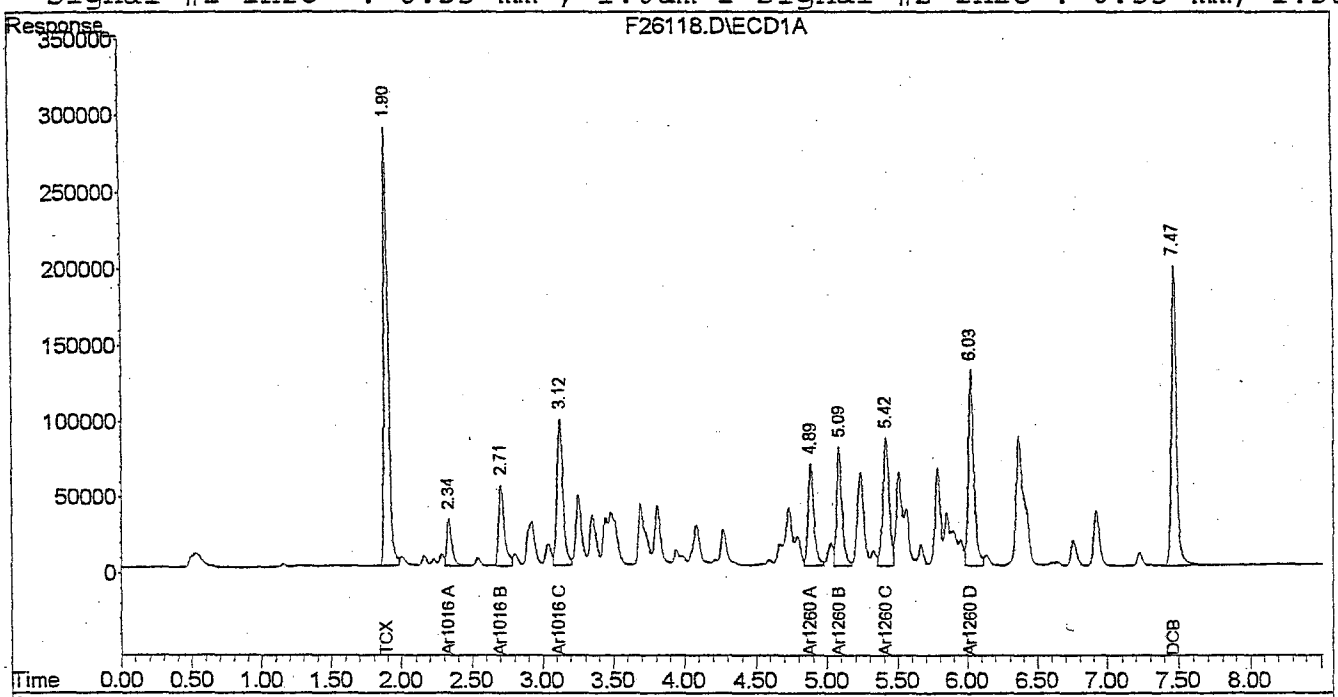
Compound	RT#1	RT#2	Resp#1	Resp#2	ug/ml	ug/ml
System Monitoring Compounds						
1) S TCX	1.90	1.56	6075708	13629609	0.196	0.197
Spiked Amount 0.100 Range 49 - 134 Recovery =					196.00%#	197.00%#
9) S DCB	7.47	6.38	5332966	14539792	0.198	0.197
Spiked Amount 0.100 Range 69 - 155 Recovery =					198.00%#	197.00%#
Target Compounds						
2) L1 Ar1016 A	2.34	1.83	802478	2224774	0.978	0.982
3) L1 Ar1016 B	2.71	2.10	1498302	2982429	0.978	0.973
4) L1 Ar1016 C	3.13	2.47	2828102	7091883	0.981	0.978
Sum Ar1016 A			5128882	12299085	2.937	2.933
Average Ar1016 A					0.979	0.978
5) L2 Ar1260 A	4.89	4.01	1816436	3859537	1.042	1.005
6) L2 Ar1260 B	5.09	4.26	2097980	7108995	1.023	0.997
7) L2 Ar1260 C	5.42	5.12	2701099	10313390	1.008	0.993
8) L2 Ar1260 D	6.03	5.38	3575584	6068807	0.995	0.986
Sum Ar1260 A			10191099	27350729	4.068	3.981
Average Ar1260 A					1.017	0.995

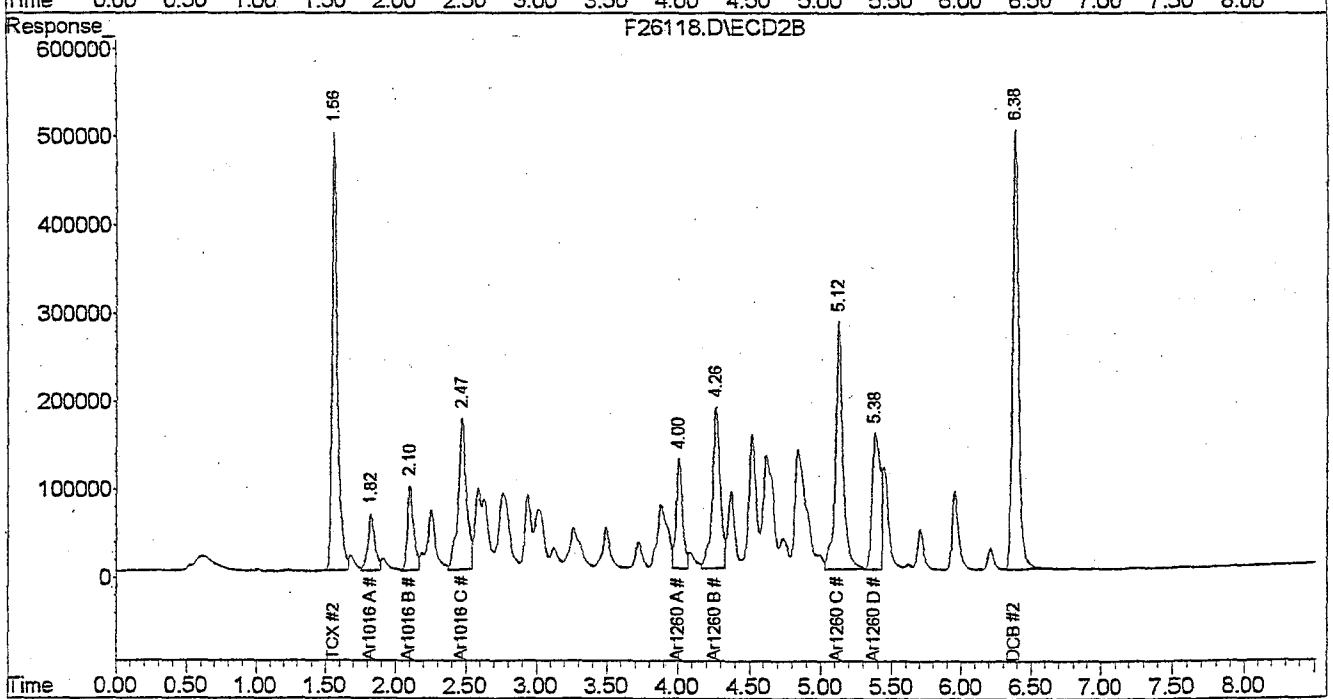
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Signal #1 : D:\HPCHEM\2\DATA\080902-F\F26118.D\ECD1A.CH Vial: 5
Signal #2 : D:\HPCHEM\2\DATA\080902-F\F26118.D\ECD2B.CH
Acq On : 9 Aug 2002 4:36 pm Operator:
Sample : P2696 16/60 1.0 Inst : Instrume
Misc : SOIL Multiplr: 1.00
IntFile Signal #1: PCBINT.E IntFile Signal #2: PCBINT2.E
Quant Time: Aug 12 13:21 2002 Quant Results File: PBQ8092.RES

Quant Method : D:\HPCHEM\2\METHODS\PBQ8092.M (Chemstation Integrator)
Title : Aroclor 1016/1260
Last Update : Mon Aug 12 13:18:55 2002
Response via : Multiple Level Calibration
DataAcq Meth : PCB.M

Volume Inj. : 3 ul
Signal #1 Phase : DB-1701 Widebore Signal #2 Phase: DB-5 Widebore
Signal #1 Info : 0.53 mm , 1.0um f Signal #2 Info : 0.53 mm, 1.5um fil





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7A
PCB CONTINUING CALIBRATION CHECK

Site ID: Topsham, ME

Project No.: CTO-0033-1 GC Column #1: RTX-CLP Pesticides I Data Package ID: 48114

Instrument ID: F GC Column #2 : RTX-CLP Pesticides II ID: 0.53 mm

File #: F26393 Cal. Check Date: 8/19/02 13:22

COMPOUND	True Value (ug/mL)	Measured Value (ug/mL)	% Recovery	Limits %R	Total Out
PCB 1016	0.50	0.565	113	85-115	0
PCB1260	0.50	0.546	109	85-115	0
PCB 1016#2	0.50	0.482	96	85-115	0
PCB 1260 #2	0.50	0.505	101	85-115	0

analytics environmental laboratory LLC

7A
PCB CONTINUING CALIBRATION CHECK

Site ID: Topsham, ME

Project No.: CTO-0033-1 GC Column #1: RTX-CLP Pesticides I Data Package ID: 48114

Instrument ID: F GC Column #2 : RTX-CLP Pesticides II ID: 0.53 mm

File #: F26419 Cal. Check Date: 8/19/02 19:19

COMPOUND	True Value (ug/mL)	Measured Value (ug/mL)	% Recovery	Limits %R	Total Out
PCB 1016	0.50	0.556	111	85-115	0
PCB1260	0.50	0.548	110	85-115	0
PCB 1016#2	0.50	0.472	94	85-115	0
PCB 1260 #2	0.50	0.490	98	85-115	0

analytics environmental laboratory LLC

7A
PCB CONTINUING CALIBRATION CHECK

Site ID: Topsham, ME

Project No.: CTO-0033-1 GC Column #1: RTX-CLP Pesticides I Data Package ID: 48114

Instrument ID: F GC Column #2 : RTX-CLP Pesticides II ID: 0.53 mm

File #: F26433 Cal. Check Date: 8/20/02 9:38

COMPOUND	True Value (ug/mL)	Measured Value (ug/mL)	% Recovery	Limits %R	Total Out
PCB 1016	0.50	0.548	110	85-115	0
PCB1260	0.50	0.499	100	85-115	0
PCB 1016#2	0.50	0.456	91	85-115	0
PCB 1260 #2	0.50	0.463	93	85-115	0

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7A
PCB CONTINUING CALIBRATION CHECK

Site ID: Topsham, ME

Project No.: CTO-0033-1 GC Column #1: RTX-CLP Pesticides I Data Package ID: 48114

Instrument ID: F GC Column #2 : RTX-CLP Pesticides II ID: 0.53 mm

File #: F26454 Cal. Check Date: 8/20/02 15:18

COMPOUND	True Value (ug/mL)	Measured Value (ug/mL)	% Recovery	Limits %R	Total Out
PCB 1016	0.50	0.568	114	85-115	0
PCB1260	0.50	0.527	105	85-115	0
PCB 1016#2	0.50	0.490	98	85-115	0
PCB 1260 #2	0.50	0.480	96	85-115	0

analytics environmental laboratory LLC

PCB SOIL
SYSTEM MONITORING COMPOUND RETENTION TIME SUMMARY

Quote#: SDG: 48114

Project No: CTO-0033-01 Site ID: PCB Removal Bldg. 335 Location: Topsham, ME

GC Columns: RTX-CLPesticidesI ID: 0.53(mm)
RTX-CLPesticidesII

Instrument ID: E

Date Analyzed: 8/9/02
Lab File ID (Standard) : F26117 Time Analyzed: 16:24

	COLUMN #1		COLUMN #1	
	SMC1	SMC 2	SMC1	SMC 2
PESTICIDE STANDARD	1.90	7.48	1.56	6.39
UPPER LIMIT	1.93	7.52	1.59	6.43
LOWER LIMIT	1.87	7.44	1.53	6.35

	SAMPLE ID	LAB FILE ID	DATE	TIME	COLUMN #1 SMC1	#	COLUMN #1 SMC 2	#	COLUMN #2 SMC1	#	COLUMN #2 SMC 2	#
01	ZZZZZ	F26113.D	08/09/02	15:37	1.90		7.48		1.56		6.39	
02	P2692 16/60 0.02	F26114.D	08/09/02	15:49	1.90		7.47		1.56		6.39	
03	P2693 16/60 0.05	F26115.D	08/09/02	16:01	1.90		7.47		1.56		6.39	
04	P2694 16/60 0.1	F26116.D	08/09/02	16:13	1.90		7.47		1.56		6.39	
05	P2695 16/60 0.5	F26117.D	08/09/02	16:24	1.90		7.47		1.56		6.38	
06	P2696 16/60 1.0	F26118.D	08/09/02	16:36	1.90		7.47		1.56		6.38	
07	ZZZZZ	F26119.D	08/09/02	16:47	1.89		7.47		1.54		6.38	
08	P2677 1221 1.0	F26120.D	08/09/02	16:59	NA		NA		NA		NA	
09	P2678 1232 1.0	F26121.D	08/09/02	17:10	NA		NA		NA		NA	
10	P2679 1242 1.0	F26122.D	08/09/02	17:22	NA		NA		NA		NA	
11	P2682 1248 1.0	F26123.D	08/09/02	17:33	NA		NA		NA		NA	
12	P2680 1254 1.0	F26124.D	08/09/02	17:45	NA		NA		NA		NA	
13	ZZZZZ	F26125.D	08/09/02	17:56	1.89		7.46		1.55		6.38	
14	ZZZZZ	F26126.D	08/09/02	18:10	1.79	*	7.38	*	0.00	*	6.45	*
15	ZZZZZ	F26126A.D	08/09/02	19:41	1.92		7.49		1.57		6.40	
16	ZZZZZ	F26127.D	08/09/02	19:52	1.91		7.48		1.57		6.39	
17	ZZZZZ	F26128.D	08/09/02	20:04	1.90		7.48		1.57		6.39	
18	ZZZZZ	F26129.D	08/09/02	20:16	1.90		7.47		1.56		6.39	
19	ZZZZZ	F26130.D	08/09/02	20:27	1.90		7.47		1.56		6.39	
20	ZZZZZ	F26131.D	08/09/02	20:39	1.90		7.47		1.56		6.39	
21	ZZZZZ	F26132.D	08/09/02	20:50	1.90		7.47		1.56		6.38	
22	ZZZZZ	F26133.D	08/09/02	21:01	1.90		7.47		1.56		6.38	
23	ZZZZZ	F26134.D	08/09/02	21:13	1.90		7.47		1.56		6.38	
24	ZZZZZ	F26135.D	08/09/02	21:24	1.90		7.47		1.56		6.38	
25	ZZZZZ	F26136.D	08/09/02	21:36	1.90		7.47		1.56		6.38	
26	ZZZZZ	F26137.D	08/09/02	21:47	1.90		7.47		1.56		6.38	
27	ZZZZZ	F26138.D	08/09/02	21:59	1.90		7.47		1.56		6.38	
28	ZZZZZ	F26139.D	08/09/02	22:11	1.90		7.47		1.56		6.38	
29	ZZZZZ	F26140.D	08/09/02	22:22	1.90		7.47		1.56		6.38	
30	ZZZZZ	F26141.D	08/09/02	22:34	1.90		7.47		1.56		6.38	
31	P2695 16/60 0.5	F26142.D	08/09/02	22:46	1.90		7.47		1.56		6.38	
32												
33												
34												
35												

analytics environmental laboratory LLC

PCB SOIL
SYSTEM MONITORING COMPOUND RETENTION TIME SUMMARY

Quote#: SDG: 48114

Project No: CTO-0033-01 Site ID: PCB Removal Bldg. 335 Location: Topsham, ME

GC Columns: RTX-CLPesticidesI ID: 0.53(mm)
Instrument ID: E RTX-CLPesticidesII

Date Analyzed: 8/19/02
Lab File ID (Standard) : F26393 Time Analyzed: 13:22

	COLUMN #1		COLUMN #1	
	SMC1	SMC 2	SMC1	SMC 2
PESTICIDE STANDARD	1.96	7.55	1.61	6.45
UPPER LIMIT	1.99	7.59	1.64	6.49
LOWER LIMIT	1.93	7.51	1.58	6.41

	SAMPLE ID	LAB FILE ID	DATE	TIME	COLUMN #1 SMC1	#	COLUMN #1 SMC 2	#	COLUMN #2 SMC1	#	COLUMN #2 SMC 2	#
01	P2695 16/60 0.5	F26393.D	08/19/02	13:22	1.96		7.55		1.61		6.45	
02	ZZZZZ	F26394.D	08/19/02	14:31	1.90	*	7.61	*	1.59		6.46	
03	ZZZZZ	F26395.D	08/19/02	14:42	2.01	*	7.60	*	1.59		6.45	
04	ZZZZZ	F26396.D	08/19/02	14:54	1.93		7.59		1.59		6.45	
05	ZZZZZ	F26397.D	08/19/02	15:05	1.93		7.59		1.59		6.45	
06	ZZZZZ	F26398.D	08/19/02	15:17	1.93		7.50	*	1.55	*	6.45	
07	B08162PAS A/C	F26399.D	08/19/02	15:29	1.95		7.54		1.61		6.45	
08	L08162PASB A/C	F26400.D	08/19/02	15:40	1.95		7.54		1.60		6.44	
09	LD08162PASB A/C	F26401.D	08/19/02	15:52	1.95		7.54		1.60		6.44	
10	ZZZZZ	F26402.D	08/19/02	16:03	1.95		7.53		1.60		6.44	
11	ZZZZZ	F26403.D	08/19/02	16:15	1.95		7.54		1.60		6.44	
12	ZZZZZ	F26404.D	08/19/02	16:27	1.95		7.54		1.60		6.44	
13	ZZZZZ	F26405.D	08/19/02	16:38	1.95		7.54		1.60		6.44	
14	ZZZZZ	F26406.D	08/19/02	16:50	1.95		7.54		1.60		6.44	
15	ZZZZZ	F26407.D	08/19/02	17:01	1.95		7.54		1.60		6.44	
16	ZZZZZ	F26408.D	08/19/02	17:13	1.95		7.54		1.60		6.45	
17	ZZZZZ	F26409.D	08/19/02	17:24	1.95		7.54		1.60		6.45	
18	ZZZZZ	F26410.D	08/19/02	17:36	1.95		7.54		1.60		6.45	
19	ZZZZZ	F26411.D	08/19/02	17:47	1.95		7.54		1.60		6.45	
20	ZZZZZ	F26412.D	08/19/02	17:59	1.95		7.54		1.60		6.44	
21	ZZZZZ	F26413.D	08/19/02	18:10	1.95		7.54		1.60		6.45	
22	ZZZZZ	F26414.D	08/19/02	18:22	1.95		7.54		1.61		6.45	
23	ZZZZZ	F26415.D	08/19/02	18:33	1.95		7.54		1.6		6.44	
24	ZZZZZ	F26416.D	08/19/02	18:45	1.95		7.54		1.6		6.45	
25	48089-9,MS A/C	F26417.D	08/19/02	18:56	1.95		7.54		1.6		6.45	
26	48089-9,MSD A/C	F26418.D	08/19/02	19:08	1.95		7.54		1.6		6.45	
27	P2695 16/60 0.5	F26419.D	08/19/02	19:19	1.95		7.54		1.6		6.44	
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analytics environmental laboratory LLC

PCB SOIL
SYSTEM MONITORING COMPOUND RETENTION TIME SUMMARY

Quote#: SDG: 48114

Project No: CTO-0033-01 Site ID: PCB Removal Bldg. 335 Location: Topsham, ME

GC Columns: RTX-CLPesticidesI ID: 0.53(mm)
RTX-CLPesticidesII

Instrument ID: E

Date Analyzed: 8/20/02
Lab File ID (Standard) : F26433 Time Analyzed: 9:38

	COLUMN #1		COLUMN #1	
	SMC1	SMC 2	SMC1	SMC 2
PESTICIDE STANDARD	1.96	7.55	1.62	6.45
UPPER LIMIT	1.99	7.59	1.65	6.49
LOWER LIMIT	1.93	7.51	1.59	6.41

	SAMPLE ID	LAB FILE ID	DATE	TIME	COLUMN #1 SMC1	#	COLUMN #1 SMC 2	#	COLUMN #2 SMC1	#	COLUMN #2 SMC 2	#
01	P2695 16/60 0.5	F26433.D	08/20/02	9:38	1.96		7.55		1.62		6.45	
02	ZZZZZ	F26434.D	08/20/02	11:26	1.98		7.57		1.62		6.46	
03	ZZZZZ	F26435.D	08/20/02	11:37	1.97		7.55		1.62		6.45	
04	ZZZZZ	F26436.D	08/20/02	11:49	1.96		7.55		1.62		6.45	
05	ZZZZZ	F26437.D	08/20/02	12:01	1.96		7.55		1.62		6.46	
06	ZZZZZ	F26438.D	08/20/02	12:12	1.96		7.54		1.61		6.46	
07	ZZZZZ	F26439.D	08/20/02	12:24	1.97		7.55		1.63		6.47	
08	ZZZZZ	F26440.D	08/20/02	12:36	1.96		7.54		1.62		6.45	
09	B08202PAS A/C	F26441.D	08/20/02	12:48	1.96		7.54		1.61		6.44	
10	L08202PAS A/C	F26442.D	08/20/02	12:59	1.96		7.54		1.61		6.45	
11	ZZZZZ	F26443.D	08/20/02	13:11	1.96		7.54		1.61		6.45	
12	48114-1 A/C	F26444.D	08/20/02	13:22	1.96		7.54		1.61		6.44	
13	ZZZZZ	F26445.D	08/20/02	13:34	1.96		7.54		1.61		6.44	
14	ZZZZZ	F26446.D	08/20/02	13:45	1.96		7.54		1.62		6.44	
15	ZZZZZ	F26447.D	08/20/02	13:56	1.96		7.54		1.61		6.45	
16	ZZZZZ	F26448.D	08/20/02	14:08	1.96		7.54		1.61		6.44	
17	ZZZZZ	F26449.D	08/20/02	14:19	1.96		7.54		1.61		6.44	
18	ZZZZZ	F26450.D	08/20/02	14:31	1.96		7.54		1.61		6.44	
19	ZZZZZ	F26451.D	08/20/02	14:43	1.96		7.54		1.61		6.44	
20	ZZZZZ	F26452.D	08/20/02	14:55	1.96		7.54		1.61		6.45	
21	ZZZZZ	F26453.D	08/20/02	15:07	1.96		7.54		1.62		6.44	
22	P2695 16/60 0.5	F26454.D	08/20/02	15:18	1.96		7.54		1.62		6.44	
23												
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analytics environmental laboratory LLC

195 Commerce Way Suite E
Portsmouth, NH 03801
Phone (603) 436-5111
Fax (603) 430-2151

For Analytics Use Only Rev 6/02

Samples were:
1) Shipped or hand-delivered
2) Temp blank °C 2°C
3) Received in good condition (Y) or N
4) pH checked by: N/A
5) Labels checked by: SLK 8/19/02

Project#: CTO-0033-1 Proj. Name: PCB Removal Bldg 335
Company: Foster Wheeler Env Co
Contact: Dan Sullivan
Address: P.O. Box 660
Kittery ME
Phone: 207-451-9251 PO# Quote #
Sampler (Signature): Rick Goldbeck

Matrix Key:
WW=Wastewater
SW=Surfacewater
GW=Groundwater
DW=Drinkingwater
S=Soil/Sludge
O=Oil
F=Extract
X=Other

Container Key
P=plastic G=glass

Station Identification	Sample Date	Sample Time	Analysis	Preservation: Unpres	4oC	HNO_3	H_2SO_4	HCL	Methanol	Other	Matrix	Container number/type		pH	Analytics Sample #
CB81902-1	8-19-02	1430	PCB								Soil	1	G		48114-1

FAX RESULTS? YES NO
Fax #

Turnaround Request
Standard ☐ Due Date
Priority ☐ Due Date

Comments / Instructions:
Catch Basin - Grab Sample

Page 1 of 1

Received By:	Received By:	Received By:
Time: 1645	Time:	Time:
Date: 8-19-02	Date:	Date:
Relinquished By Sampler: Rick Goldbeck	Relinquished By:	Relinquished By:

990/990

Analytics\AEL Documents\AEL COC

Round 1

analytics environmental laboratory LLC

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800-929-9906
analytics@analyticslab.com

September 9, 2002

Mr Dan Sullivan
Foster Wheeler Environmental Corporation
P.O. Box 660
Kittery, ME 03904

RE: Analytical Results Case Narrative
Analytics # 48137
Navy – FWEC Project # CTO-0033-1
BNAS PCB Char./Removal @ Bldg. 335

Dear Mr. Sullivan;

Enclosed please find the analytical results for samples submitted for the above-mentioned project. The attached Cover Page lists the sample IDs, Lab tracking numbers and collection dates for the samples included in this deliverable.

The samples were analyzed for PCBs according to EPA Method 8082. Unless otherwise noted in the Non-conformance Summary listed below, all of the quality control (QC) criteria including initial calibration, calibration verification, surrogate recovery, holding time and method accuracy/precision for these analyses were within acceptable limits.

This Level 3 data package has been assembled in the following order:

Case Narrative/Non-Conformance Summary
- Sample Log Sheet - Cover Page
- PCB Form 1 Data Sheet for Samples and Blanks
  - Chromatograms
- PCB Form 10 Confirmation Results Form (if required)
- PCB Form 2 Surrogate Recoveries
- PCB Form 3 MS/MSD (LCS) Recoveries
- PCB Form 4 Method Blank Summary (equiv.) GC/MS Logbook Sheets
- PCB Form 5 DDT Breakdown Summaries
- PCB Form 6 Initial Calibration Data
- PCB Form 7 Continuing Calibration Check
- PCB Form 8 System Monitoring Compound RT Summary
- Chain of Custody (COC) Forms and Sample Receipt Checklist

QC NON CONFORMANCE SUMMARY

Sample Receipt:
No QC deviations.

PCBs by EPA Method 8082:
The MS/MSD results for PCB 1260 in sample 48137-19 were outside the laboratory acceptance limits due to interference from the PCB 1254 present in the sample. The PCB 1254 concentration was 5880 ug/kg. The PCB 1016 MS/MSAD recoveries were in control and the LCS/LCSD recoveries were acceptable.

Sincerely,
ANALYTICS Environmental Laboratory, LLC

Stephen L. Knollmeyer
Laboratory Director

analytics environmental laboratory LLC

195 Commerce Way Suite E
Portsmouth, New Hampshire 03801
603-436-5111 Fax 603-430-2151
800-929-9906
analytics@analyticslab.com

Mr. Josh Holden
Foster Wheeler Environmental Corp.
P.O. Box 660
Kittery ME 03904

Report Number: 48137

Revision: Rev. 0

Re: BNAS- Bldg 335 PCB C/U **CTO-03**

Enclosed are the results of the analyses on your sample(s). Samples were received on 23 August 2002 and analyzed for the tests listed below. Samples were received in acceptable condition, with the exceptions noted below or on the chain of custody. The results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report. Please see individual reports for specific methodologies and references.

Lab Number	Sample Date	Station Location	Analysis	Comments
48137-1	08/23/02	CS-9-BS	EPA 8082 (PCBs only)	
48137-2	08/23/02	CS-6-BS	EPA 8082 (PCBs only)	
48137-3	08/23/02	CS-8-BS	EPA 8082 (PCBs only)	
48137-4	08/23/02	CS-5-1-BS	EPA 8082 (PCBs only)	
48137-5	08/23/02	CS-5-2-BS	EPA 8082 (PCBs only)	
48137-6	08/23/02	CS-3-BS	EPA 8082 (PCBs only)	
48137-7	08/23/02	CS-2-BS	EPA 8082 (PCBs only)	
48137-8	08/23/02	CS-1-BS	EPA 8082 (PCBs only)	
48137-9	08/23/02	CS-4-BS	EPA 8082 (PCBs only)	
48137-10	08/23/02	CS-7-BS	EPA 8082 (PCBs only)	
48137-11	08/23/02	CS-9-ESW	EPA 8082 (PCBs only)	
48137-12	08/23/02	CS-9-SSW	EPA 8082 (PCBs only)	
48137-13	08/23/02	CS-8-SSW	EPA 8082 (PCBs only)	
48137-14	08/23/02	CS-7-SSW	EPA 8082 (PCBs only)	
48137-15	08/23/02	CS-7-WSW	EPA 8082 (PCBs only)	
48137-16	08/23/02	CS-4-WSW	EPA 8082 (PCBs only)	

Sample Receipt Exceptions: None

Analytics Environmental Laboratory is certified by the states of New Hampshire, Maine, Massachusetts, Connecticut, Rhode Island, North Carolina and is validated by the U.S. Army Corps of Engineers (MRD) and U.S. Navy (NFESC). A list of actual certified parameters is available upon request.

If you have any further question on the analytical methods or these results, do not hesitate to call.

Authorized signature _____
Stephen L. Knollmeyer Lab. Director

Date 8/26/2002

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analytics environmental laboratory LLC

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Mr. Josh Holden
Foster Wheeler Environmental Corp.
P.O. Box 660
Kittery ME 03904

Report Number: 48137

Revision: Rev. 0

Re: BNAS- Bldg 335 PCB C/U **CTO-03**

Enclosed are the results of the analyses on your sample(s). Samples were received on 23 August 2002 and analyzed for the tests listed below. Samples were received in acceptable condition, with the exceptions noted below or on the chain of custody. The results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report. Please see individual reports for specific methodologies and references.

Lab Number	Sample Date	Station Location	Analysis	Comments
48137-17	08/23/02	CS-1-WSW	EPA 8082 (PCBs only)	
48137-18	08/23/02	CS-1-NSW	EPA 8082 (PCBs only)	
48137-19	08/23/02	CS-2-NSW	EPA 8082 (PCBs only)	
48137-20	08/23/02	CS-3-NSW	EPA 8082 (PCBs only)	
48137-21	08/23/02	CS-3-ESW	EPA 8082 (PCBs only)	
48137-22	08/23/02	CS-6-ESW	EPA 8082 (PCBs only)	
48137-23	08/23/02	CS-7-W-SW-2	EPA 8082 (PCBs only)	
48137-24	08/23/02	CS-4-W-SW-2	EPA 8082 (PCBs only)	
48137-25	08/23/02	CS-1-W-SW-2	EPA 8082 (PCBs only)	
48137-26	08/23/02	CS-1-N-SW-2	EPA 8082 (PCBs only)	
48137-27	08/23/02	CS-2-N-SW-2	EPA 8082 (PCBs only)	
48137-28	08/23/02	CS-3-N-SW-2	EPA 8082 (PCBs only)	

Sample Receipt Exceptions: None

Analytics Environmental Laboratory is certified by the states of New Hampshire, Maine, Massachusetts, Connecticut, Rhode Island, North Carolina and is validated by the U.S. Army Corps of Engineers (MRD) and U.S. Navy (NFESC). A list of actual certified parameters is available upon request.

If you have any further question on the analytical methods or these results, do not hesitate to call.

Authorized signature _____
Stephen L. Knollmeyer Lab. Director

Date 8/26/2002

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Mr. Josh Holden
Foster Wheeler Environmental Corp.
P.O. Box 660
Kittery ME 03904

September 5, 2002

SAMPLE DATA

Lab Sample ID: B08232PAS
Matrix: Solid
Percent Solid: 100
Dilution Factor: 1
Collection Date:
Lab Receipt Date:
Extraction Date: 08/23/02
Analysis Date: 08/26/02

CLIENT SAMPLE ID

Project Name: BNAS- Bldg 335 PCB C/U
Project Number: CTO-03
Field Sample ID: LABQC

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/kg	Results µg/kg
PCB-1016	15	U
PCB-1221	15	U
PCB-1232	15	U
PCB-1242	15	U
PCB-1248	15	U
PCB-1254	15	U
PCB-1260	15	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	108	%
Decachlorobiphenyl	106	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3545.

COMMENTS: Results are expressed on a dry weight basis.

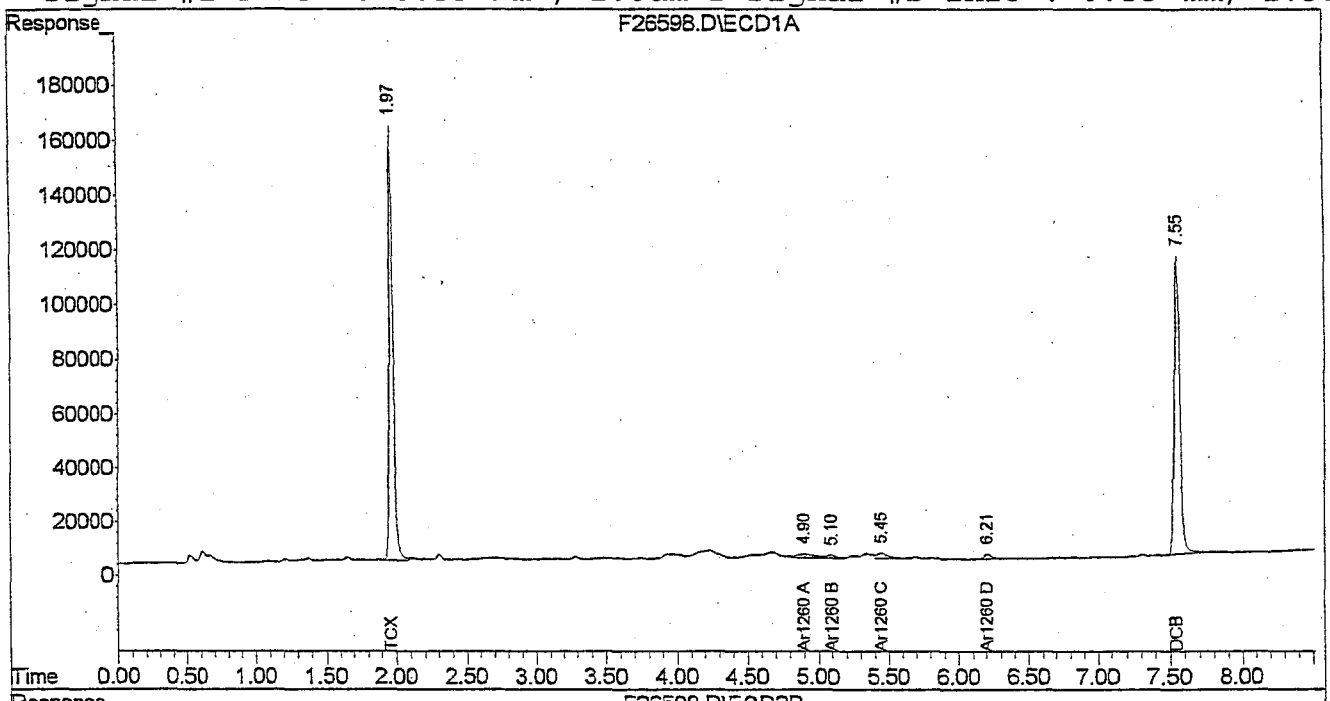
PCB Report

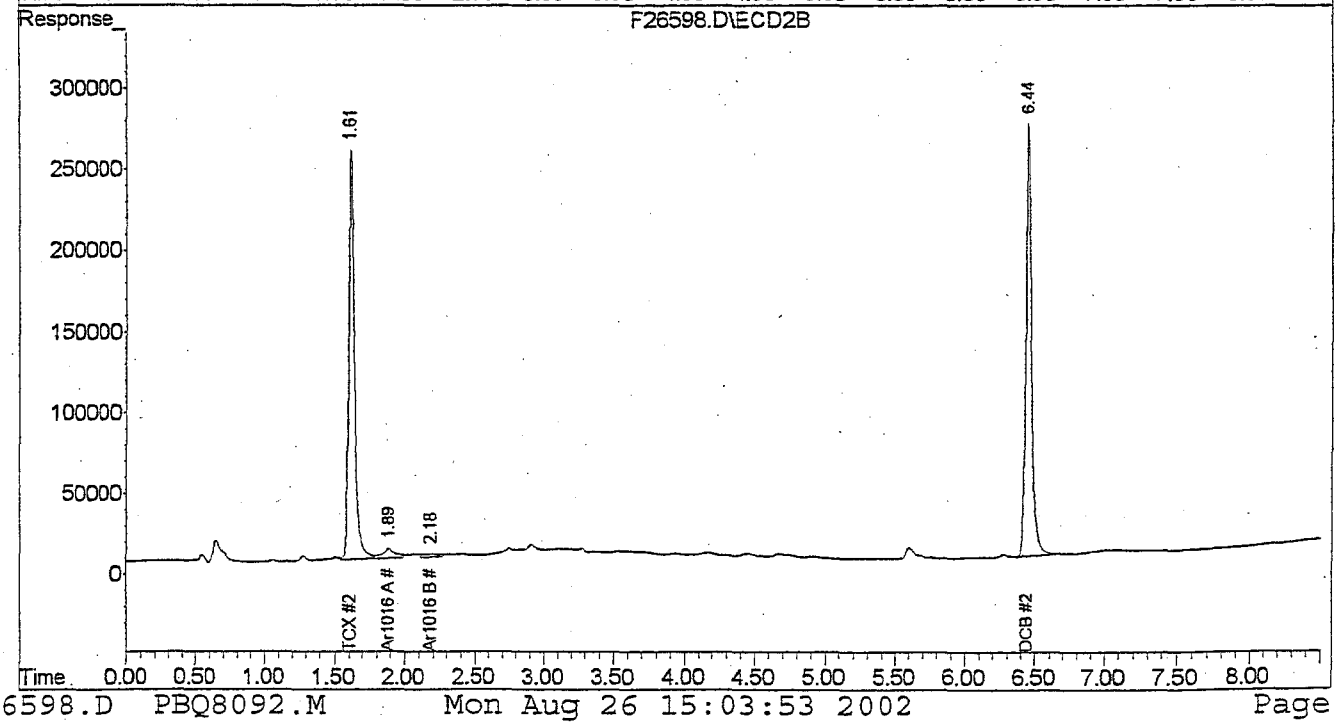
Authorized signature Melissa A Tabb

Signal #1 : D:\HPCHEM\2\DATA\082602-F\F26598.D\ECD1A.CH Vial: 2
Signal #2 : D:\HPCHEM\2\DATA\082602-F\F26598.D\ECD2B.CH
Acq On : 26 Aug 2002 10:34 am Operator:
Sample : B08232PAS Inst : Instrume
Misc : SOIL Multiplr: 1.00
IntFile Signal #1: PCBINT.E IntFile Signal #2: PCBINT2.E
Quant Time: Aug 26 15:03 2002 Quant Results File: PBQ8092.RES

Quant Method : D:\HPCHEM\2\METHODS\PBQ8092.M (Chemstation Integrator)
Title : Aroclor 1016/1260
Last Update : Mon Aug 26 10:29:15 2002
Response via : Multiple Level Calibration
DataAcq Meth : PCB.M

Volume Inj. : 3 ul
Signal #1 Phase : DB-1701 Widebore Signal #2 Phase: DB-5 Widebore
Signal #1 Info : 0.53 mm , 1.0um f Signal #2 Info : 0.53 mm, 1.5um fil





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800-929-9906

Mr. Josh Holden
Foster Wheeler Environmental Corp.
P.O. Box 660
Kittery ME 03904

September 5, 2002

SAMPLE DATA

CLIENT SAMPLE ID

Project Name: BNAS- Bldg 335 PCB C/U

Project Number: CTO-03

Field Sample ID: LABQC

Lab Sample ID: B08232PAS A/C
Matrix: Solid
Percent Solid: 100
Dilution Factor: 1
Collection Date:
Lab Receipt Date:
Extraction Date: 08/23/02
Analysis Date: 08/26/02

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/kg	Results µg/kg
PCB-1016	15	U
PCB-1221	15	U
PCB-1232	15	U
PCB-1242	15	U
PCB-1248	15	U
PCB-1254	15	U
PCB-1260	15	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	111	%
Decachlorobiphenyl	116	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3545.

COMMENTS: Results are expressed on a dry weight basis.

PCB Report

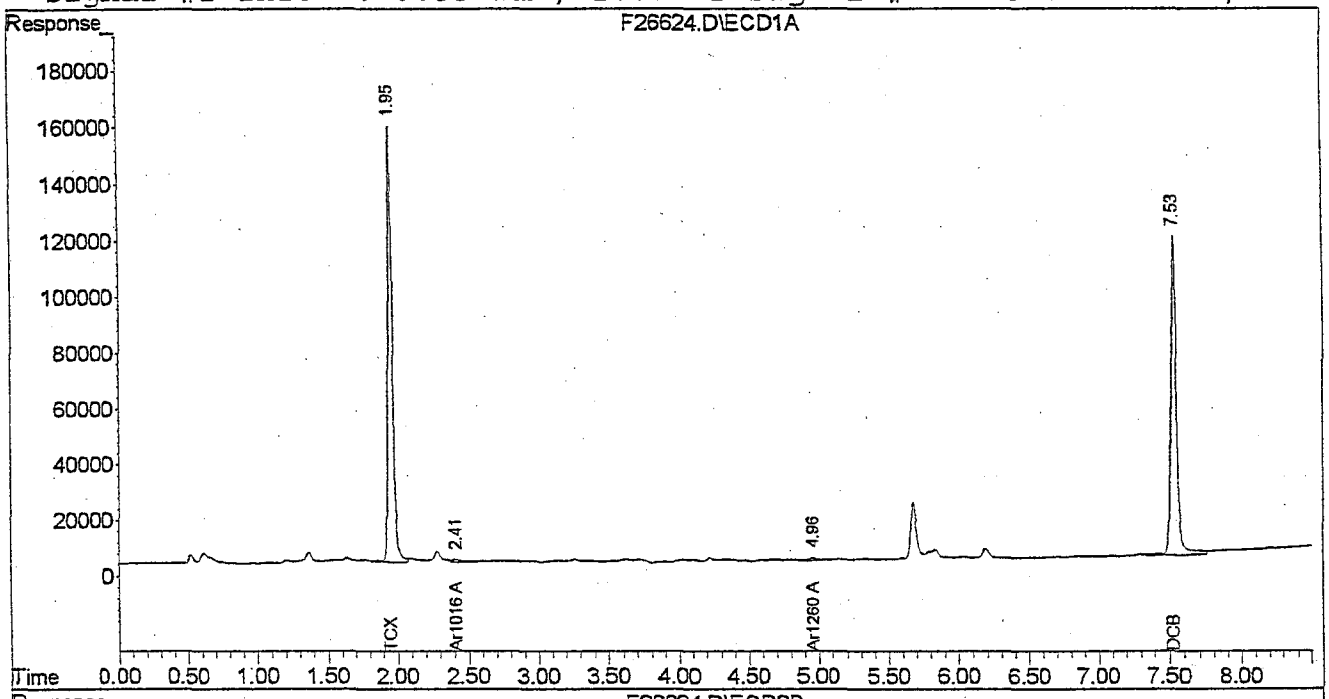
Authorized signature Melissa Galeski

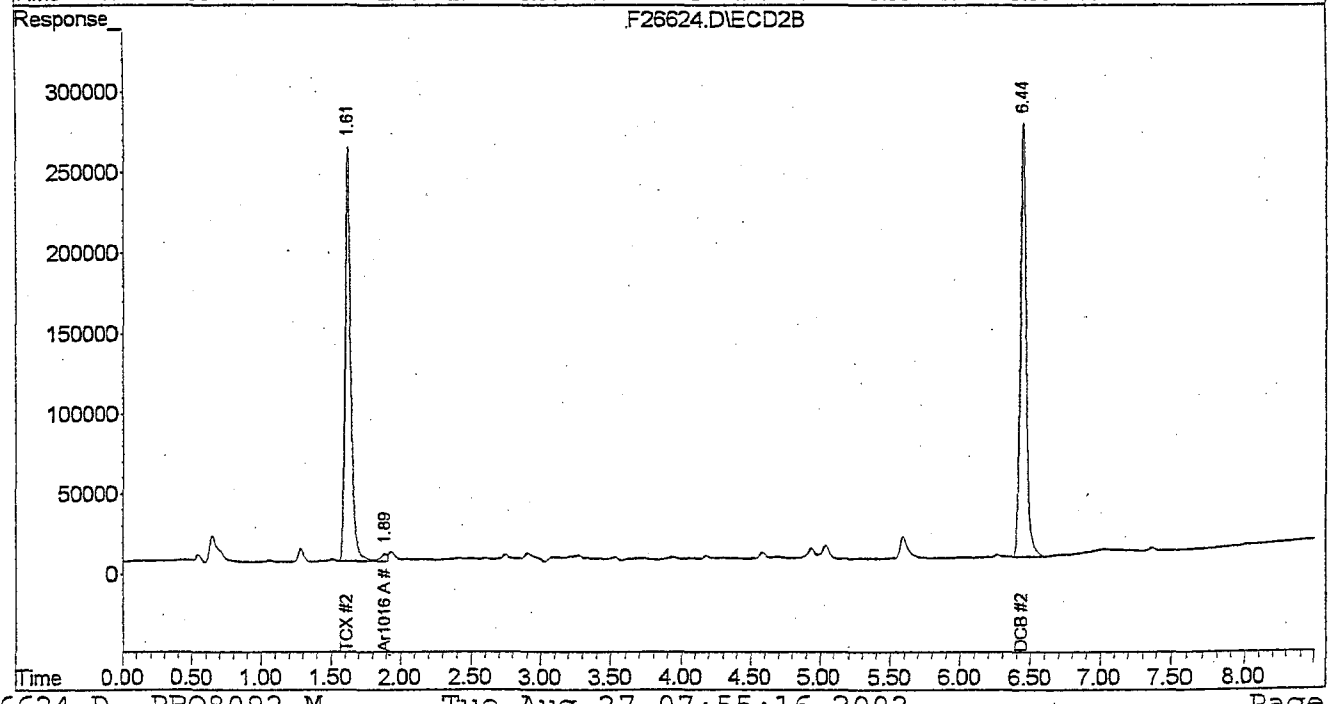
Quantitation Report (Not Reviewed)

Signal #1 : D:\HPCHEM\2\DATA\082602-F\F26624.D\ECD1A.CH Vial: 27
Signal #2 : D:\HPCHEM\2\DATA\082602-F\F26624.D\ECD2B.CH
Acq On : 26 Aug 2002 3:34 pm Operator:
Sample : B08232PAS A/C Inst : Instrume
Misc : SOIL Multiplr: 1.00
IntFile Signal #1: PCBINT.E IntFile Signal #2: PCBINT2.E
Quant Time: Aug 27 7:55 2002 Quant Results File: PBQ8092.RES

Quant Method : D:\HPCHEM\2\METHODS\PBQ8092.M (Chemstation Integrator)
Title : Aroclor 1016/1260
Last Update : Mon Aug 26 10:29:15 2002
Response via : Multiple Level Calibration
DataAcq Meth : PCB.M

Volume Inj. : 3 ul
Signal #1 Phase : DB-1701 Widebore Signal #2 Phase: DB-5 Widebore
Signal #1 Info : 0.53 mm , 1.0um f Signal #2 Info : 0.53 mm, 1.5um fil





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Mr. Josh Holden
Foster Wheeler Environmental Corp.
P.O. Box 660
Kittery ME 03904

September 5, 2002

SAMPLE DATA

Lab Sample ID: B08262PAS
Matrix: Solid
Percent Solid: 100
Dilution Factor: 1
Collection Date:
Lab Receipt Date:
Extraction Date: 08/26/02
Analysis Date: 08/26/02

CLIENT SAMPLE ID

Project Name: BNAS- Bldg 335 PCB C/U
Project Number: CTO-03
Field Sample ID: LABQC

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/kg	Results µg/kg
PCB-1016	15	U
PCB-1221	15	U
PCB-1232	15	U
PCB-1242	15	U
PCB-1248	15	U
PCB-1254	15	U
PCB-1260	15	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	107	%
Decachlorobiphenyl	104	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

COMMENTS: Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3545. Results are expressed on a dry weight basis.

PCB Report

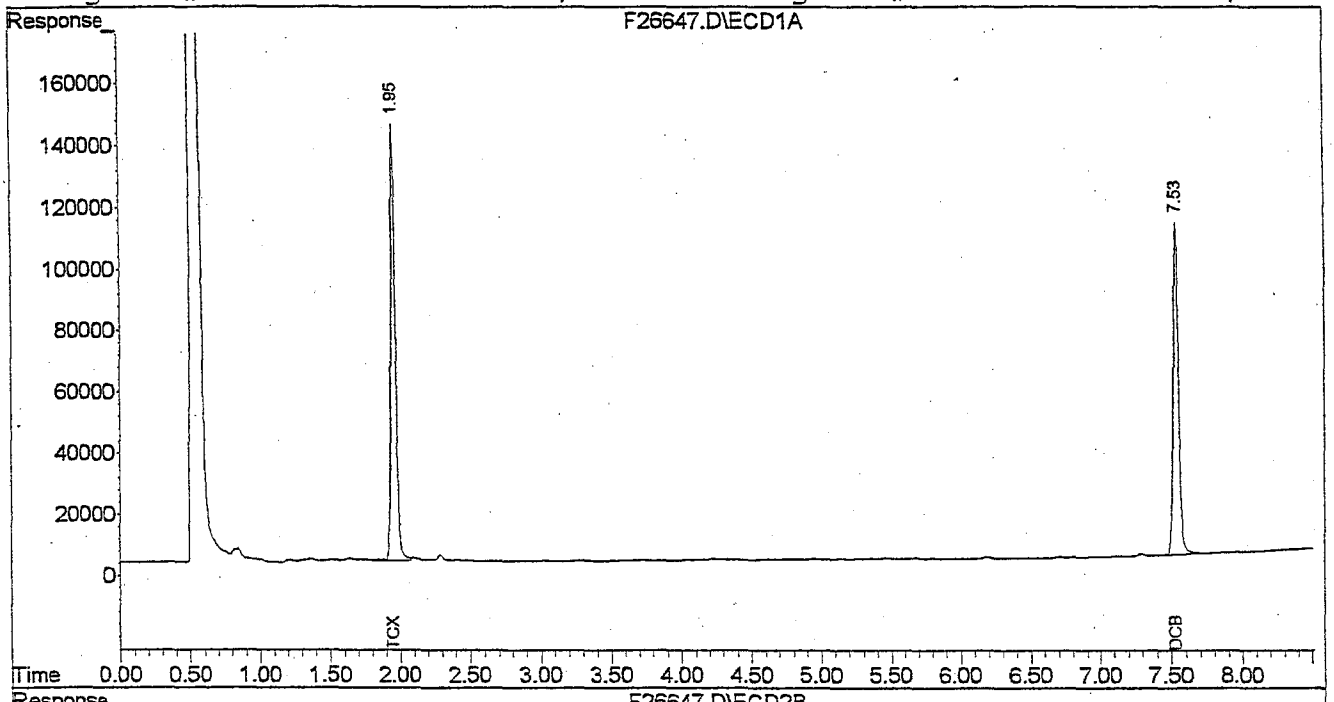
Authorized signature Melissa A Salli

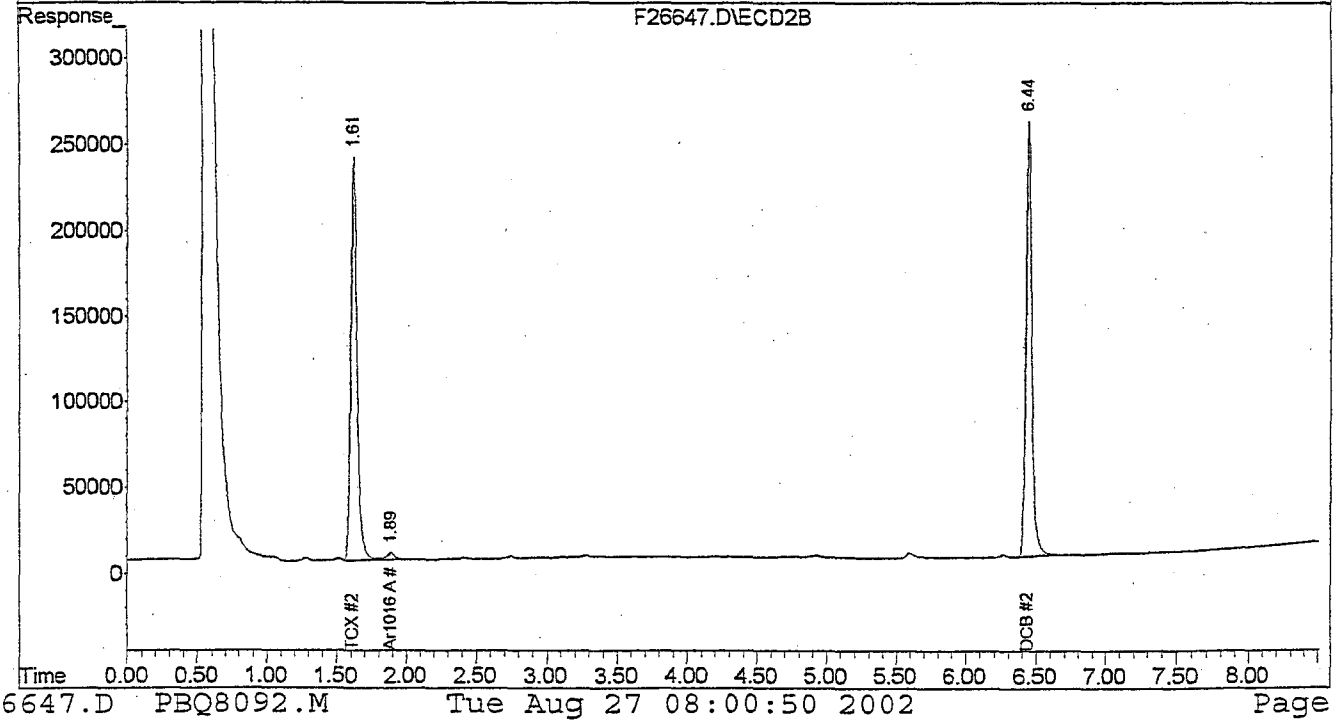
Quantitation Report (Not Reviewed)

Signal #1 : D:\HPCHEM\2\DATA\082602-F\F26647.D\ECD1A.CH Vial: 48
Signal #2 : D:\HPCHEM\2\DATA\082602-F\F26647.D\ECD2B.CH
Acq On : 26 Aug 2002 7:59 pm Operator:
Sample : B08262PAS Inst : Instrume
Misc : SOIL Multiplr: 1.00
IntFile Signal #1: PCBINT.E IntFile Signal #2: PCBINT2.E
Quant Time: Aug 27 8:00 2002 Quant Results File: PBQ8092.RES

Quant Method : D:\HPCHEM\2\METHODS\PBQ8092.M (Chemstation Integrator)
Title : Aroclor 1016/1260
Last Update : Mon Aug 26 10:29:15 2002
Response via : Multiple Level Calibration
DataAcq Meth : PCB.M

Volume Inj. : 3 ul
Signal #1 Phase : DB-1701 Widebore Signal #2 Phase: DB-5 Widebore
Signal #1 Info : 0.53 mm , 1.0um f Signal #2 Info : 0.53 mm, 1.5um fil





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Mr. Josh Holden
Foster Wheeler Environmental Corp.
P.O. Box 660
Kittery ME 03904

August 27, 2002

SAMPLE DATA

Lab Sample ID:	48137-1
Matrix:	Solid
Percent Solid:	92
Dilution Factor:	5
Collection Date:	08/23/02
Lab Receipt Date:	08/23/02
Extraction Date:	08/23/02
Analysis Date:	08/26/02

CLIENT SAMPLE ID

Project Name:	BNAS- Bldg 335 PCB C/U
Project Number:	CTO-03
Field Sample ID:	CS-9-BS

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/kg	Results µg/kg
PCB-1016	75	U
PCB-1221	75	U
PCB-1232	75	U
PCB-1242	75	U
PCB-1248	75	U
PCB-1254	75	**1060**
PCB-1260	75	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	110	%
Decachlorobiphenyl	75	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3545.

COMMENTS: Results are expressed on a dry weight basis.

PCB Report

Authorized signature Melissa A Tulli

analytics environmental laboratory LLC

PCB CONFIRMATION RESULTS

Quote#: SDG: 48137

Project No: CTO 03 Site ID: BNAS Bldg 335 PCB C/U Location: Topsham, ME

Instrument ID: F GC Columns: RTX-CLPesticidesI ID: 0.53(mm)

RTX-CLPesticidesII

Sample ID: 48137-1

COMPOUND	RESPONSE #1 (ug/kg)	RESPONSE #2 (ug/kg)	DIFFERENCE %	#	% DIFFERENCE Acceptance Limit
PCB 1254	1060	1160	9		40

Column to be used to flag % Difference with an asterisk

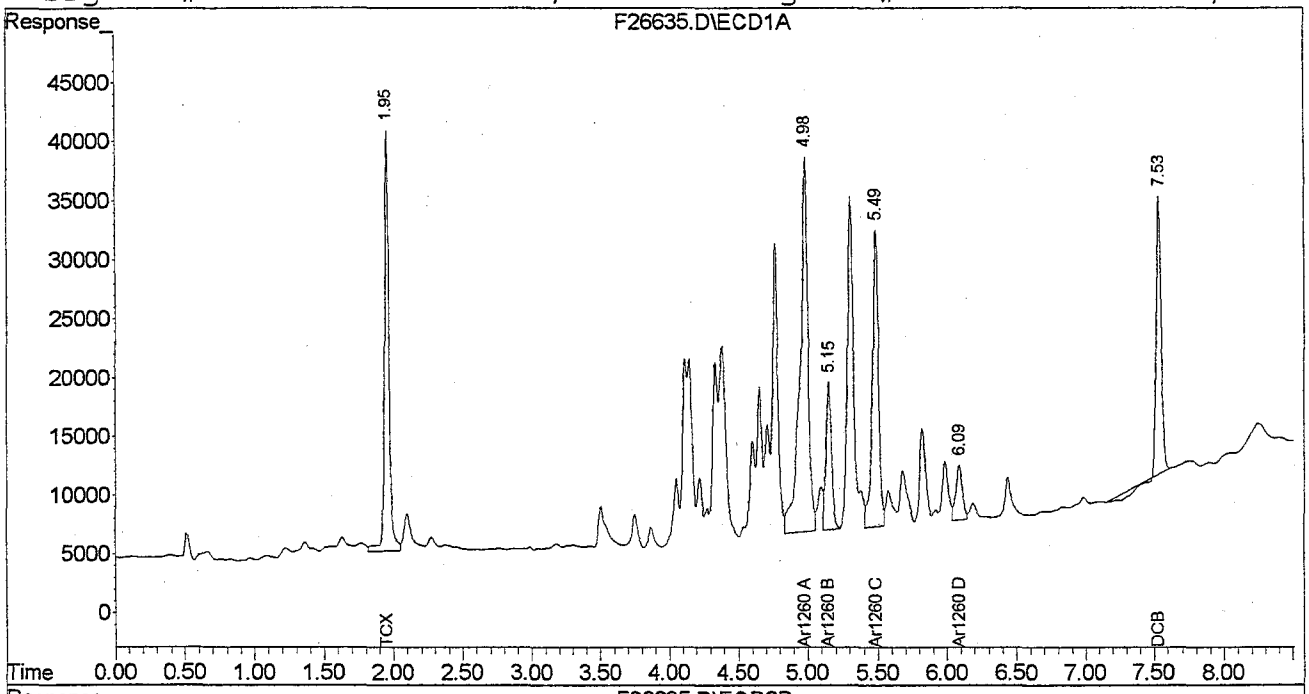
* Values outside of QC limits

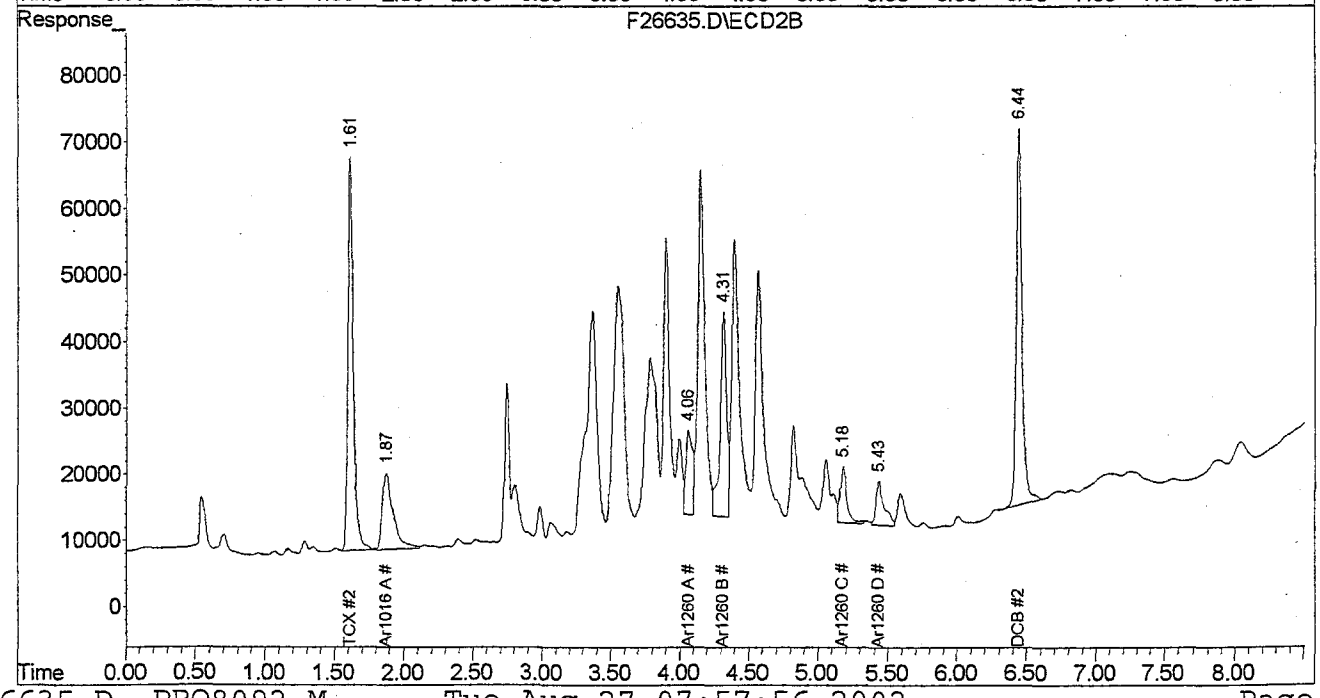
Quantitation Report (Not Reviewed)

Signal #1 : D:\HPCHEM\2\DATA\082602-F\F26635.D\ECD1A.CH Vial: 38
Signal #2 : D:\HPCHEM\2\DATA\082602-F\F26635.D\ECD2B.CH
Acq On : 26 Aug 2002 5:41 pm Operator:
Sample : 48137-1 1:5 A/C Inst : Instrume
Misc : SOIL Multiplr: 1.00
IntFile Signal #1: PCBINT.E IntFile Signal #2: PCBINT2.E
Quant Time: Aug 27 7:57 2002 Quant Results File: PBQ8092.RES

Quant Method : D:\HPCHEM\2\METHODS\PBQ8092.M (Chemstation Integrator)
Title : Aroclor 1016/1260
Last Update : Mon Aug 26 10:29:15 2002
Response via : Multiple Level Calibration
DataAcq Meth : PCB.M

Volume Inj. : 3 ul
Signal #1 Phase : DB-1701 Widebore Signal #2 Phase: DB-5 Widebore
Signal #1 Info : 0.53 mm , 1.0um f Signal #2 Info : 0.53 mm, 1.5um fil





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Mr. Josh Holden
Foster Wheeler Environmental Corp.
P.O. Box 660
Kittery ME 03904

August 27, 2002

SAMPLE DATA

Lab Sample ID:	48137-2
Matrix:	Solid
Percent Solid:	92
Dilution Factor:	5
Collection Date:	08/23/02
Lab Receipt Date:	08/23/02
Extraction Date:	08/23/02
Analysis Date:	08/26/02

CLIENT SAMPLE ID

Project Name:	BNAS- Bldg 335 PCB C/U
Project Number:	CTO-03
Field Sample ID:	CS-6-BS

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/kg	Results µg/kg
PCB-1016	75	U
PCB-1221	75	U
PCB-1232	75	U
PCB-1242	75	U
PCB-1248	75	U
PCB-1254	75	**1040**
PCB-1260	75	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	115	%
Decachlorobiphenyl	110	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

COMMENTS: Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3545. Results are expressed on a dry weight basis.

PCB Report

Authorized signature Melena A Talli

analytics environmental laboratory LLC

PCB CONFIRMATION RESULTS

Quote#: SDG: 48137

Project No: CTO 03 Site ID: BNAS Bldg 335 PCB C/U Location: Topsham, ME

Instrument ID: F GC Columns: RTX-CLPesticidesI ID: 0.53(mm)

RTX-CLPesticidesII

Sample ID: 48137-2

COMPOUND	RESPONSE #1 (ug/kg)	RESPONSE #2 (ug/kg)	DIFFERENCE %	#	% DIFFERENCE Acceptance Limit
PCB 1254	1040	1180	13		40

Column to be used to flag % Difference with an asterisk

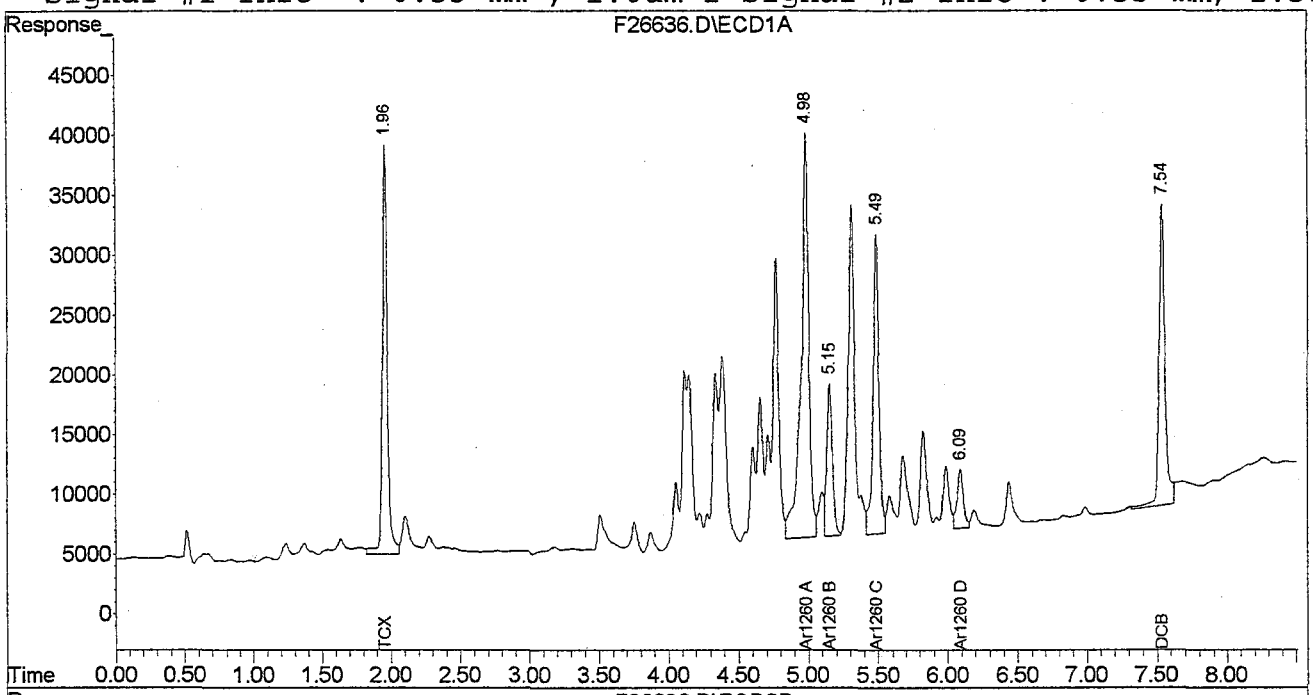
* Values outside of QC limits

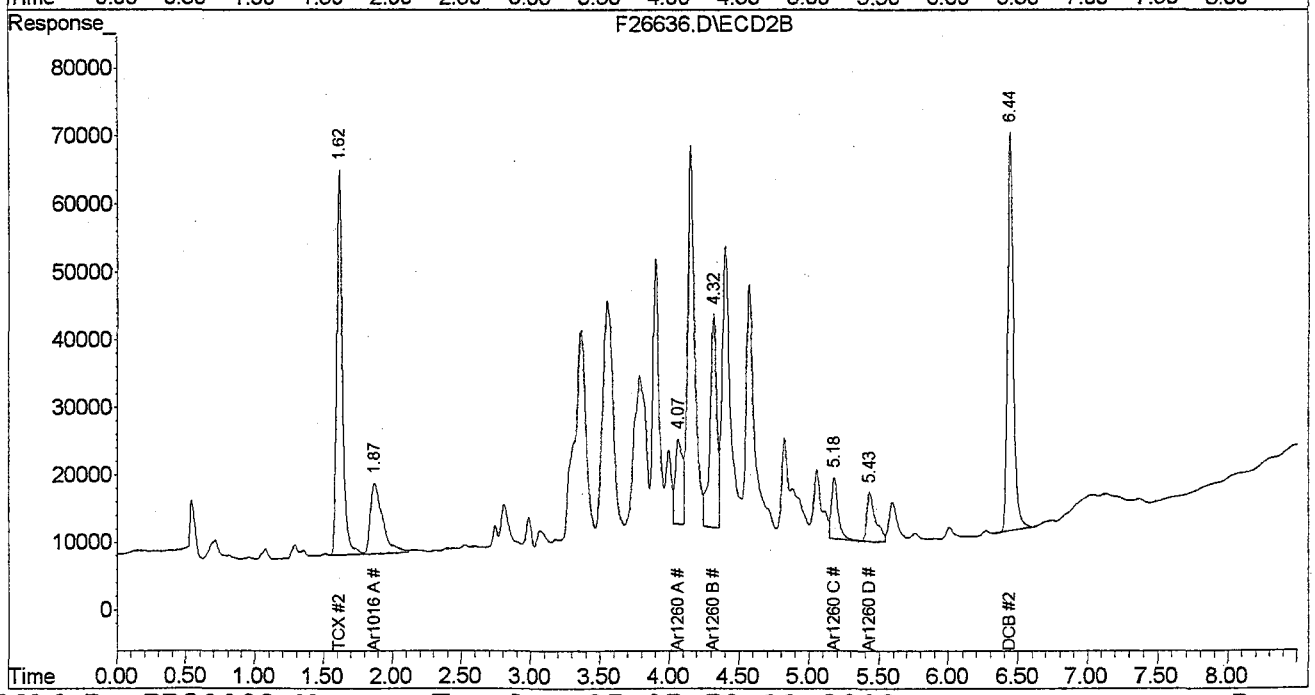
Quantitation Report (Not Reviewed)

Signal #1 : D:\HPCHEM\2\DATA\082602-F\F26636.D\ECD1A.CH Vial: 39
Signal #2 : D:\HPCHEM\2\DATA\082602-F\F26636.D\ECD2B.CH
Acq On : 26 Aug 2002 5:52 pm Operator:
Sample : 48137-2 1:5 A/C Inst : Instrume
Misc : SOIL Multiplr: 1.00
IntFile Signal #1: PCBINT.E IntFile Signal #2: PCBINT2.E
Quant Time: Aug 27 7:57 2002 Quant Results File: PBQ8092.RES

Quant Method : D:\HPCHEM\2\METHODS\PBQ8092.M (Chemstation Integrator)
Title : Aroclor 1016/1260
Last Update : Mon Aug 26 10:29:15 2002
Response via : Multiple Level Calibration
DataAcq Meth : PCB.M

Volume Inj. : 3 ul
Signal #1 Phase : DB-1701 Widebore Signal #2 Phase: DB-5 Widebore
Signal #1 Info : 0.53 mm , 1.0um f Signal #2 Info : 0.53 mm, 1.5um fil





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Mr. Josh Holden
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August 27, 2002

SAMPLE DATA

Lab Sample ID:	48137-3
Matrix:	Solid
Percent Solid:	93
Dilution Factor:	1.1
Collection Date:	08/23/02
Lab Receipt Date:	08/23/02
Extraction Date:	08/26/02
Analysis Date:	08/26/02

CLIENT SAMPLE ID

Project Name:	BNAS- Bldg 335 PCB C/U
Project Number:	CTO-03
Field Sample ID:	CS-8-BS

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/kg	Results µg/kg
PCB-1016	17	U
PCB-1221	17	U
PCB-1232	17	U
PCB-1242	17	U
PCB-1248	17	U
PCB-1254	17	**311**
PCB-1260	17	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	103	%
Decachlorobiphenyl	100	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

COMMENTS: Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3545. Results are expressed on a dry weight basis.

PCB Report

Authorized signature Melissa A Valli

analytics environmental laboratory LLC

PCB CONFIRMATION RESULTS

Quote#: SDG: 48137

Project No: CTO 03 Site ID: BNAS Bldg 335 PCB C/U Location: Topsham, ME

Instrument ID: F GC Columns: RTX-CLPesticidesI ID: 0.53(mm)

RTX-CLPesticidesII

Sample ID: 48137-3

COMPOUND	RESPONSE #1 (ug/kg)	RESPONSE #2 (ug/kg)	DIFFERENCE %	#	% DIFFERENCE Acceptance Limit
PCB 1254	311	353	13		40

Column to be used to flag % Difference with an asterisk

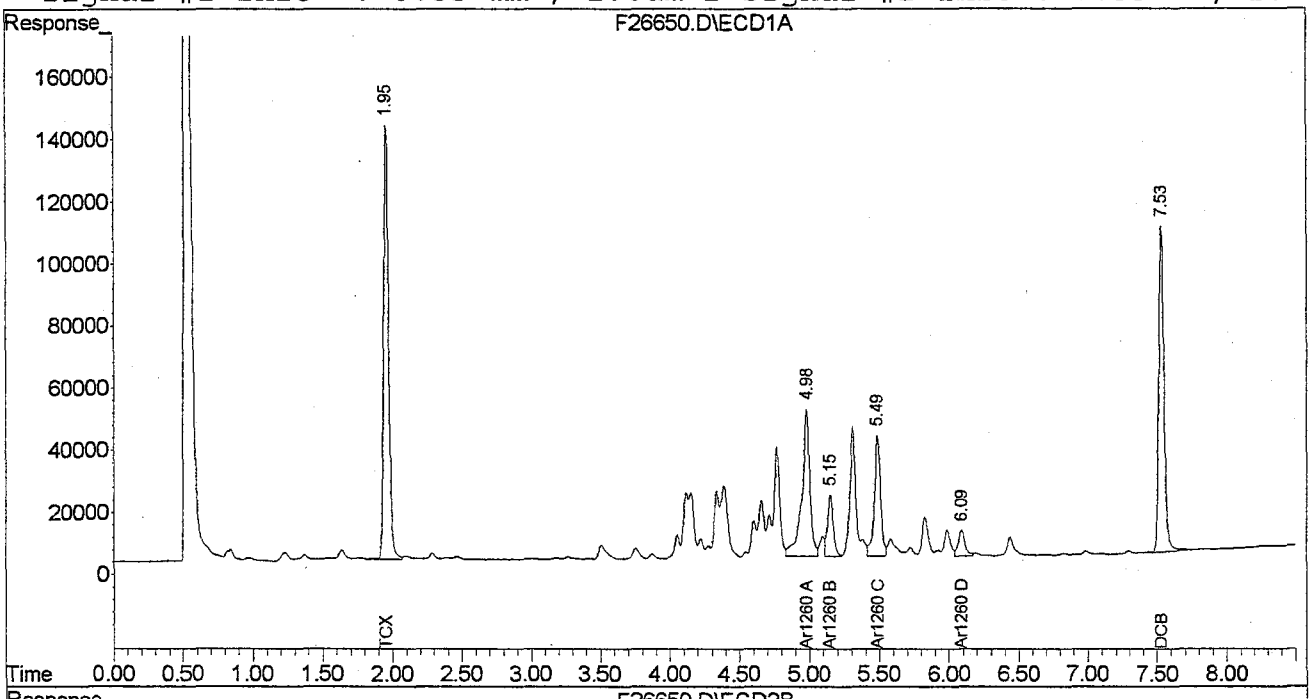
* Values outside of QC limits

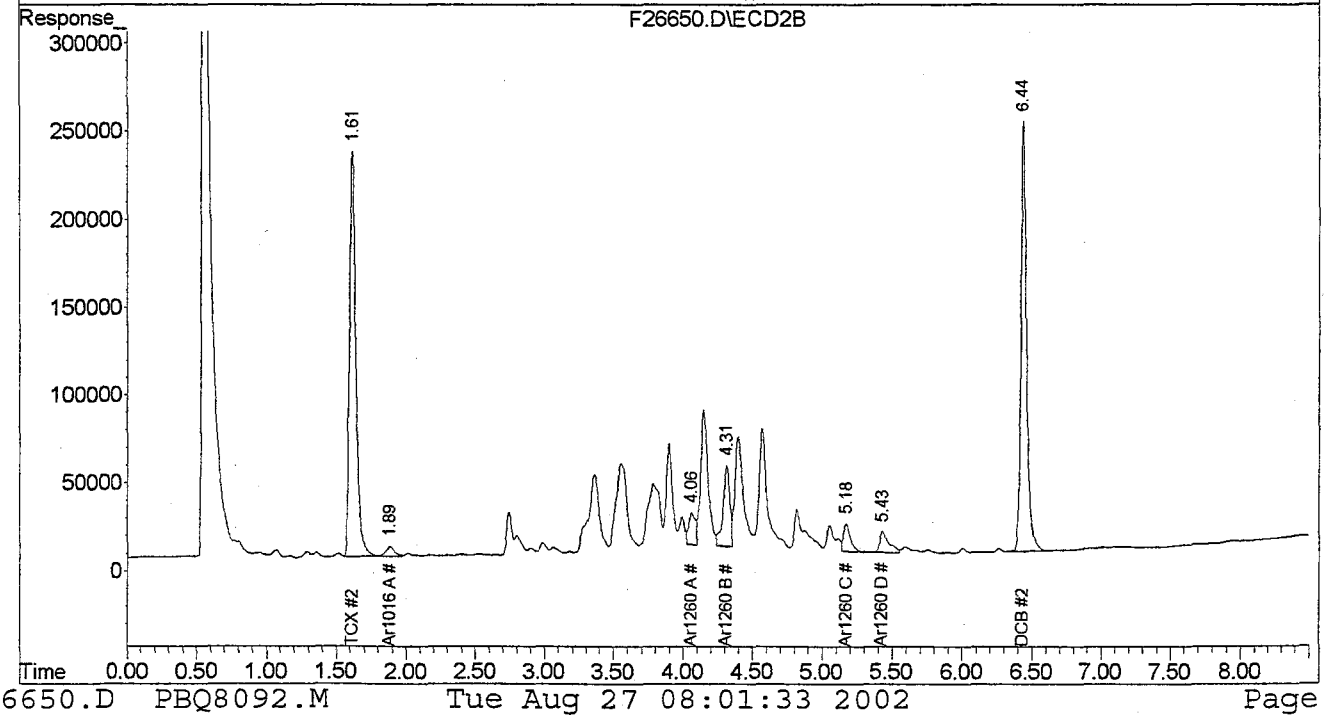
Quantitation Report (Not Reviewed)

Signal #1 : D:\HPCHEM\2\DATA\082602-F\F26650.D\ECD1A.CH Vial: 51
Signal #2 : D:\HPCHEM\2\DATA\082602-F\F26650.D\ECD2B.CH
Acq On : 26 Aug 2002 8:34 pm Operator:
Sample : 48137-3 Inst : Instrume
Misc : SOIL Multiplr: 1.00
IntFile Signal #1: PCBINT.E IntFile Signal #2: PCBINT2.E
Quant Time: Aug 27 8:01 2002 Quant Results File: PBQ8092.RES

Quant Method : D:\HPCHEM\2\METHODS\PBQ8092.M (Chemstation Integrator)
Title : Aroclor 1016/1260
Last Update : Mon Aug 26 10:29:15 2002
Response via : Multiple Level Calibration
DataAcq Meth : PCB.M

Volume Inj. : 3 ul
Signal #1 Phase : DB-1701 Widebore Signal #2 Phase: DB-5 Widebore
Signal #1 Info : 0.53 mm , 1.0um f Signal #2 Info : 0.53 mm, 1.5um fil





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Mr. Josh Holden
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August 27, 2002

SAMPLE DATA

Lab Sample ID:	48137-4
Matrix:	Solid
Percent Solid:	89
Dilution Factor:	22
Collection Date:	08/23/02
Lab Receipt Date:	08/23/02
Extraction Date:	08/23/02
Analysis Date:	08/26/02

CLIENT SAMPLE ID

Project Name:	BNAS- Bldg 335 PCB C/U
Project Number:	CTO-03
Field Sample ID:	CS-5-1-BS

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/kg	Results µg/kg
PCB-1016	330	U
PCB-1221	330	U
PCB-1232	330	U
PCB-1242	330	U
PCB-1248	330	U
PCB-1254	330	**7630**
PCB-1260	330	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	*	%
Decachlorobiphenyl	*	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3545.

COMMENTS: Results are expressed on a dry weight basis. * The surrogates were diluted out.

PCB Report

Authorized signature Melena A Galli

analytics environmental laboratory LLC

PCB CONFIRMATION RESULTS

Quote#: SDG: 48137

Project No: CTO 03 Site ID: BNAS Bldg 335 PCB C/U Location: Topsham, ME

Instrument ID: F GC Columns: RTX-CLPesticidesI ID: 0.53(mm)

RTX-CLPesticidesII

Sample ID: 48137-4

COMPOUND	RESPONSE #1 (ug/kg)	RESPONSE #2 (ug/kg)	DIFFERENCE %	#	% DIFFERENCE Acceptance Limit
PCB 1254	7630	8640	12		40

Column to be used to flag % Difference with an asterisk

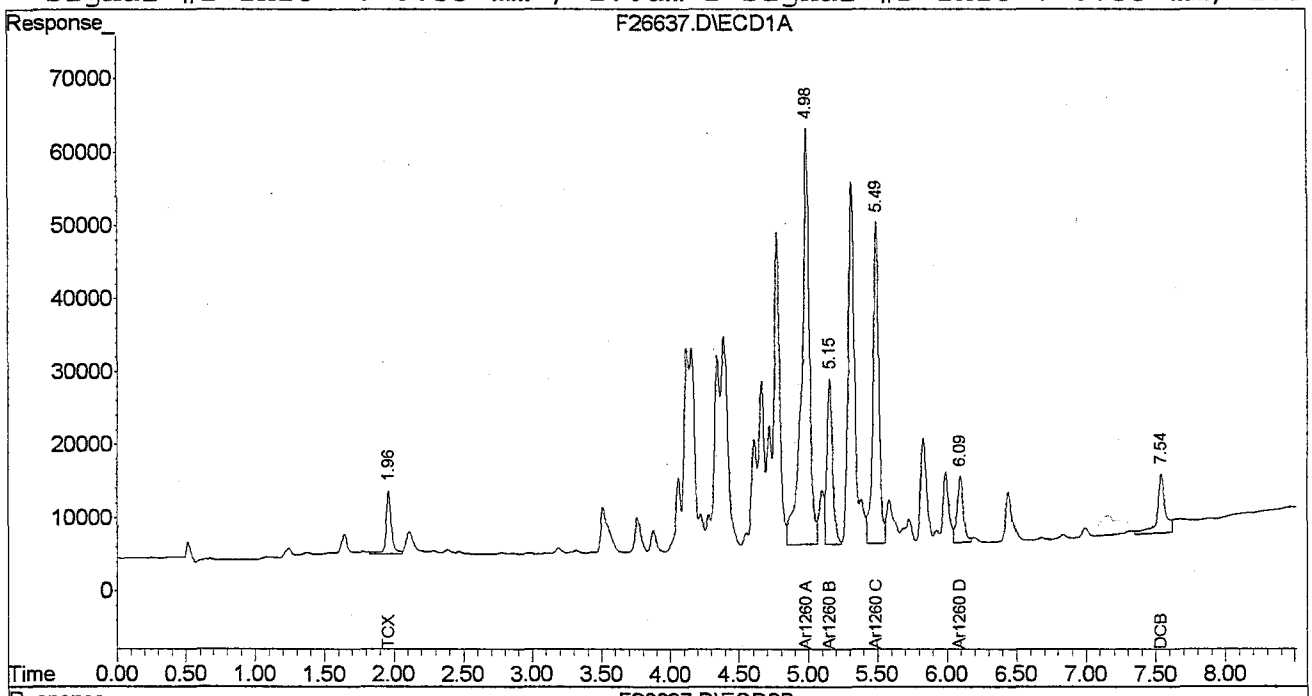
* Values outside of QC limits

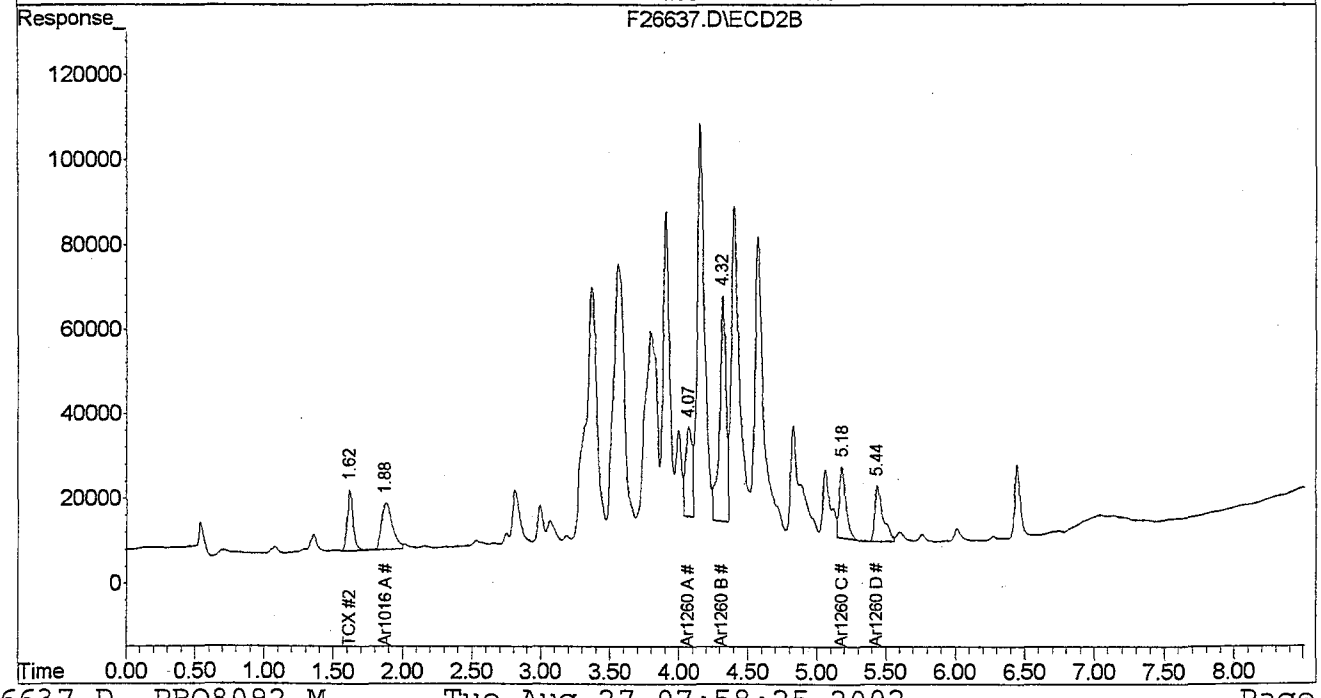
Quantitation Report (Not Reviewed)

Signal #1 : D:\HPCHEM\2\DATA\082602-F\F26637.D\ECD1A.CH Vial: 40
Signal #2 : D:\HPCHEM\2\DATA\082602-F\F26637.D\ECD2B.CH
Acq On : 26 Aug 2002 6:04 pm Operator:
Sample : 48137-4 1:20 A/C Inst : Instrume
Misc : SOIL Multiplr: 1.00
IntFile Signal #1: PCBINT.E IntFile Signal #2: PCBINT2.E
Quant Time: Aug 27 7:58 2002 Quant Results File: PBQ8092.RES

Quant Method : D:\HPCHEM\2\METHODS\PBQ8092.M (Chemstation Integrator)
Title : Aroclor 1016/1260
Last Update : Mon Aug 26 10:29:15 2002
Response via : Multiple Level Calibration
DataAcq Meth : PCB.M

Volume Inj. : 3 ul
Signal #1 Phase : DB-1701 Widebore Signal #2 Phase: DB-5 Widebore
Signal #1 Info : 0.53 mm , 1.0um f Signal #2 Info : 0.53 mm, 1.5um fil





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Mr. Josh Holden
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August 27, 2002

SAMPLE DATA

Lab Sample ID:	48137-5
Matrix:	Solid
Percent Solid:	89
Dilution Factor:	1110
Collection Date:	08/23/02
Lab Receipt Date:	08/23/02
Extraction Date:	08/23/02
Analysis Date:	08/26/02

CLIENT SAMPLE ID

Project Name:	BNAS- Bldg 335 PCB C/U
Project Number:	CTO-03
Field Sample ID:	CS-5-2-BS

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/kg	Results µg/kg
PCB-1016	16700	U
PCB-1221	16700	U
PCB-1232	16700	U
PCB-1242	16700	U
PCB-1248	16700	U
PCB-1254	16700	**256000**
PCB-1260	16700	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	*	%
Decachlorobiphenyl	*	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3545.

COMMENTS: Results are expressed on a dry weight basis. * The surrogates were diluted out.

PCB Report

Authorized signature Yolanda Astalli

analytics environmental laboratory LLC

PCB CONFIRMATION RESULTS

Quote#:

SDG: 48137

Project No: CTO 03

Site ID: BNAS Bldg 335 PCB C/U

Location: Topsham, ME

Instrument ID: F

GC Columns: RTX-CLPesticidesI
RTX-CLPesticidesII

ID: 0.53(mm)

Sample ID: 48137-5

COMPOUND	RESPONSE #1 (ug/kg)	RESPONSE #2 (ug/kg)	DIFFERENCE %	#	% DIFFERENCE Acceptance Limit
PCB 1254	256000	290000	12		40

Column to be used to flag % Difference with an asterisk

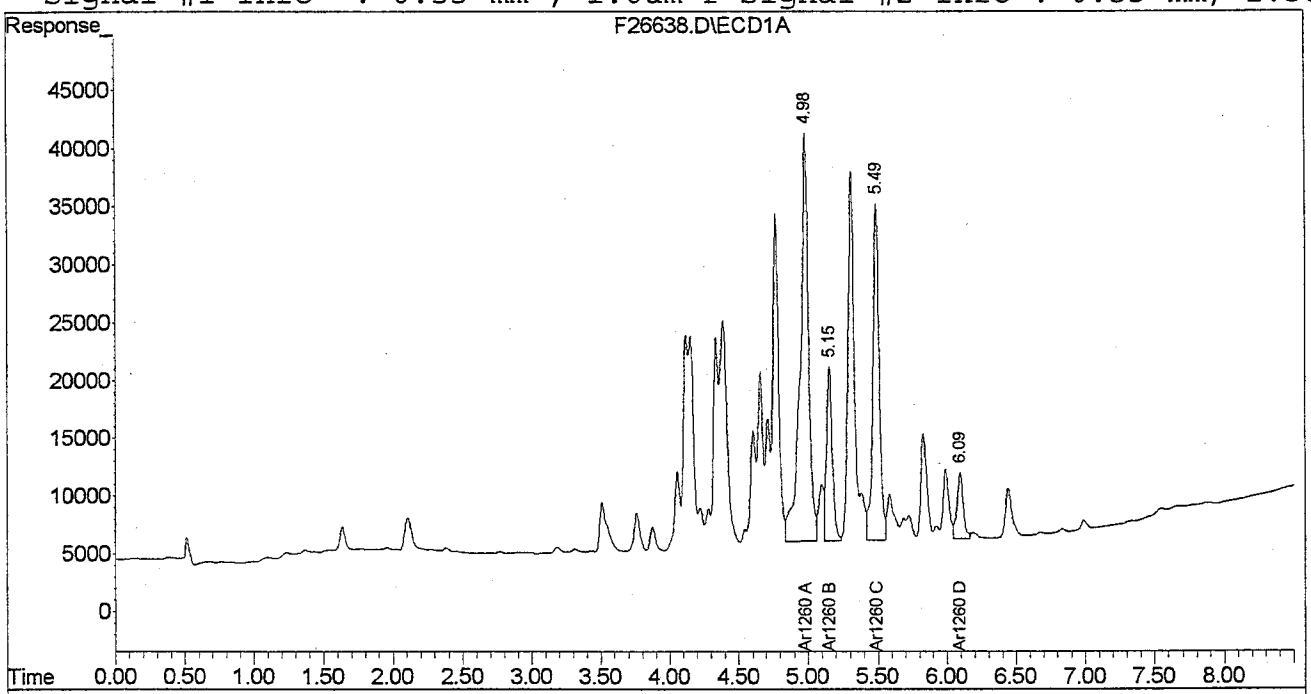
* Values outside of QC limits

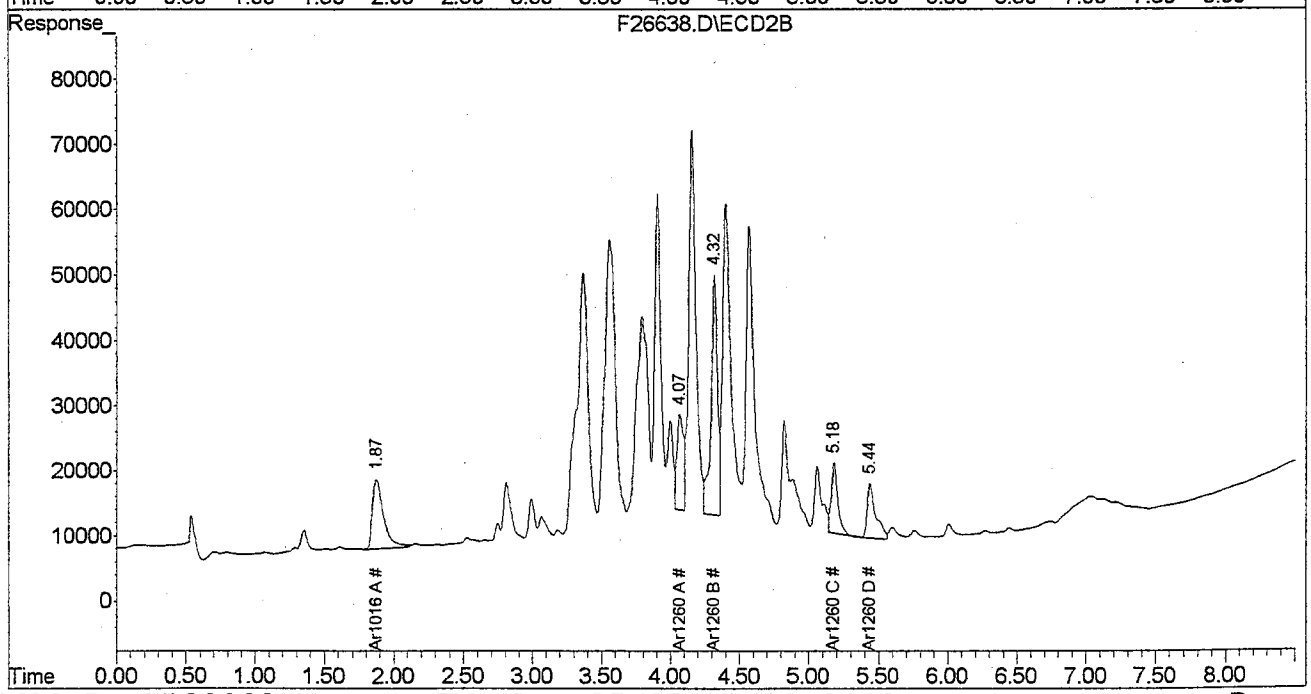
Quantitation Report (Not Reviewed)

Signal #1 : D:\HPCHEM\2\DATA\082602-F\F26638.D\ECD1A.CH Vial: 41
Signal #2 : D:\HPCHEM\2\DATA\082602-F\F26638.D\ECD2B.CH
Acq On : 26 Aug 2002 6:15 pm Operator:
Sample : 48137-5 1:1000 A/C Inst : Instrume
Misc : SOIL Multiplr: 1.00
IntFile Signal #1: PCBINT.E IntFile Signal #2: PCBINT2.E
Quant Time: Aug 27 7:58 2002 Quant Results File: PBQ8092.RES

Quant Method : D:\HPCHEM\2\METHODS\PBQ8092.M (Chemstation Integrator)
Title : Aroclor 1016/1260
Last Update : Mon Aug 26 10:29:15 2002
Response via : Multiple Level Calibration
DataAcq Meth : PCB.M

Volume Inj. : 3 ul
Signal #1 Phase : DB-1701 Widebore Signal #2 Phase: DB-5 Widebore
Signal #1 Info : 0.53 mm , 1.0um f Signal #2 Info : 0.53 mm, 1.5um fil





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Mr. Josh Holden
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P.O. Box 660
Kittery ME 03904

August 27, 2002

SAMPLE DATA

Lab Sample ID:	48137-6
Matrix:	Solid
Percent Solid:	75
Dilution Factor:	13
Collection Date:	08/23/02
Lab Receipt Date:	08/23/02
Extraction Date:	08/23/02
Analysis Date:	08/26/02

CLIENT SAMPLE ID

Project Name:	BNAS- Bldg 335 PCB C/U
Project Number:	CTO-03
Field Sample ID:	CS-3-BS

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/kg	Results µg/kg
PCB-1016	200	U
PCB-1221	200	U
PCB-1232	200	U
PCB-1242	200	U
PCB-1248	200	U
PCB-1254	200	3740
PCB-1260	200	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	*	%
Decachlorobiphenyl	*	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3545.

COMMENTS: Results are expressed on a dry weight basis. * The surrogates were diluted out.

PCB Report

Authorized signature Melissa A. Kelli

analytics environmental laboratory LLC

PCB CONFIRMATION RESULTS

Quote#: SDG: 48137

Project No: CTO 03 Site ID: BNAS Bldg 335 PCB C/U Location: Topsham, ME

Instrument ID: F GC Columns: RTX-CLPesticidesI ID: 0.53(mm)

RTX-CLPesticidesII

Sample ID: 48137-6

COMPOUND	RESPONSE #1 (ug/kg)	RESPONSE #2 (ug/kg)	DIFFERENCE %	#	% DIFFERENCE Acceptance Limit
PCB 1254	3740	4130	10		40

Column to be used to flag % Difference with an asterisk

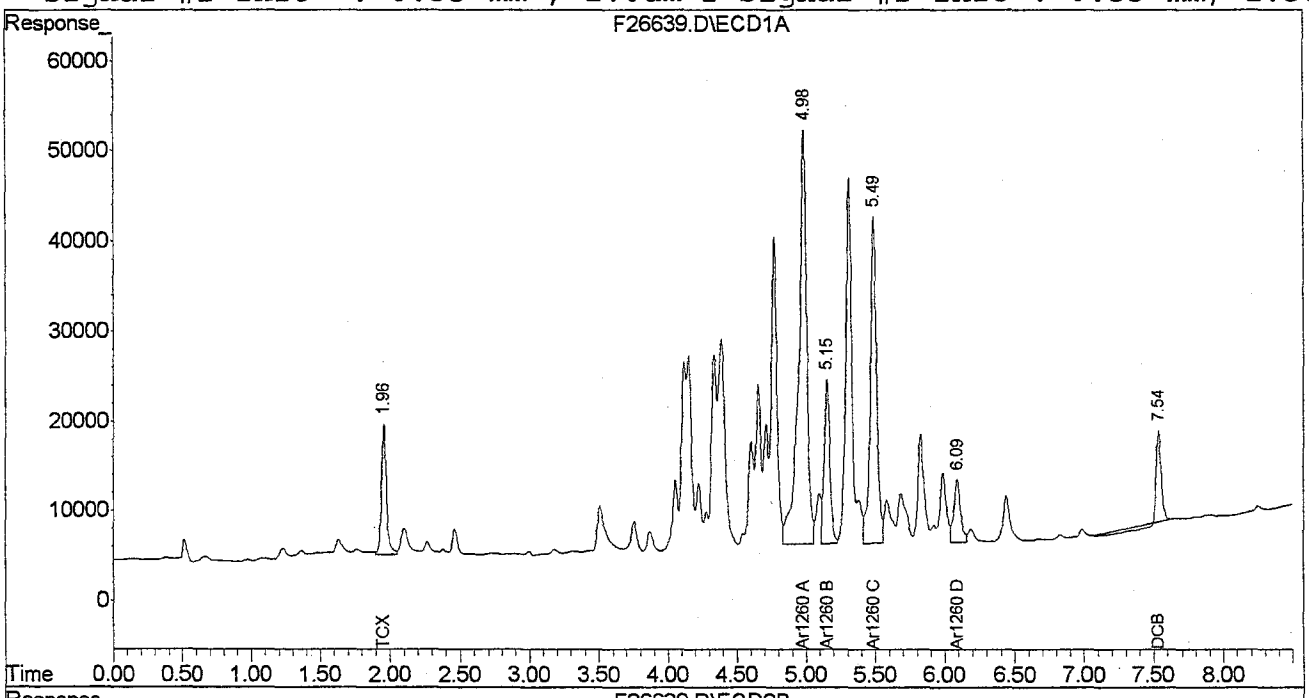
* Values outside of QC limits

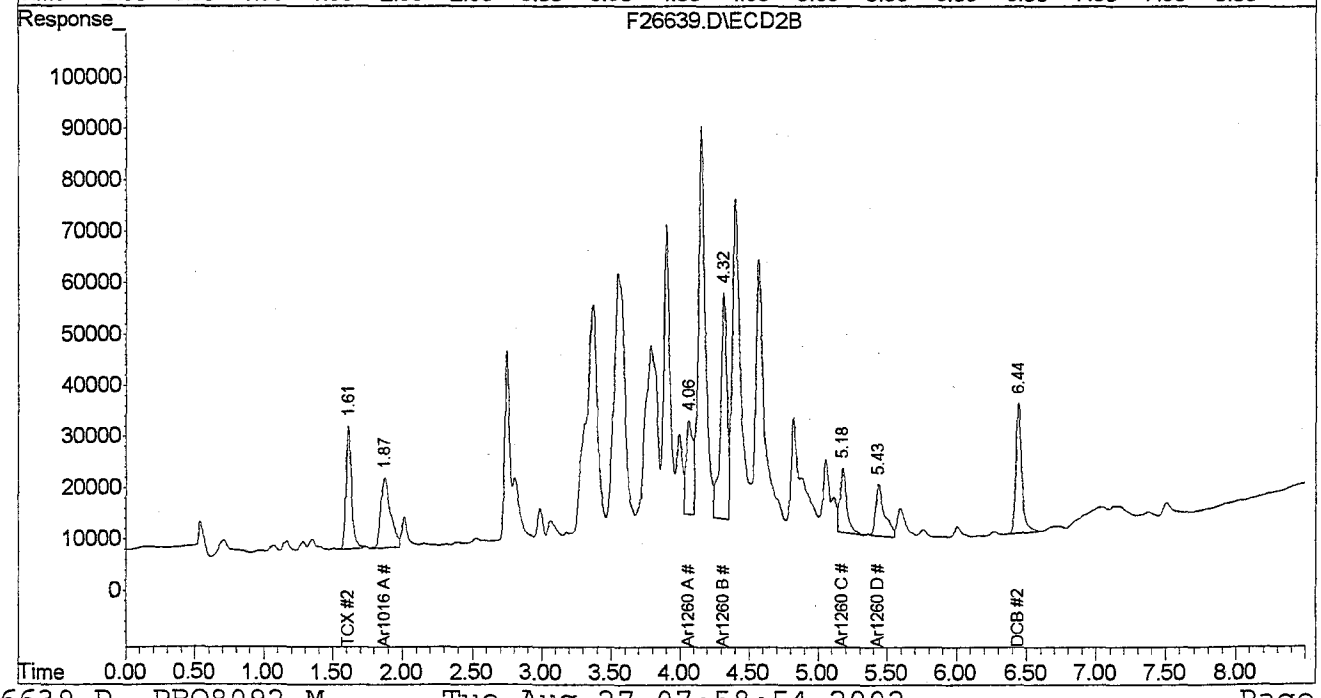
Quantitation Report (Not Reviewed)

Signal #1 : D:\HPCHEM\2\DATA\082602-F\F26639.D\ECD1A.CH Vial: 42
Signal #2 : D:\HPCHEM\2\DATA\082602-F\F26639.D\ECD2B.CH
Acq On : 26 Aug 2002 6:27 pm Operator:
Sample : 48137-6 1:10 A/C Inst : Instrume
Misc : SOIL Multiplr: 1.00
IntFile Signal #1: PCBINT.E IntFile Signal #2: PCBINT2.E
Quant Time: Aug 27 7:58 2002 Quant Results File: PBQ8092.RES

Quant Method : D:\HPCHEM\2\METHODS\PBQ8092.M (Chemstation Integrator)
Title : Aroclor 1016/1260
Last Update : Mon Aug 26 10:29:15 2002
Response via : Multiple Level Calibration
DataAcq Meth : PCB.M

Volume Inj. : 3 ul
Signal #1 Phase : DB-1701 Widebore Signal #2 Phase: DB-5 Widebore
Signal #1 Info : 0.53 mm , 1.0um f Signal #2 Info : 0.53 mm, 1.5um fil





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Mr. Josh Holden
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August 27, 2002

SAMPLE DATA

Lab Sample ID:	48137-7
Matrix:	Solid
Percent Solid:	88
Dilution Factor:	11
Collection Date:	08/23/02
Lab Receipt Date:	08/23/02
Extraction Date:	08/23/02
Analysis Date:	08/26/02

CLIENT SAMPLE ID

Project Name:	BNAS- Bldg 335 PCB C/U
Project Number:	CTO-03
Field Sample ID:	CS-2-BS

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/kg	Results µg/kg
PCB-1016	170	U
PCB-1221	170	U
PCB-1232	170	U
PCB-1242	170	U
PCB-1248	170	U
PCB-1254	170	**2230**
PCB-1260	170	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	*	%
Decachlorobiphenyl	*	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3545.

COMMENTS: Results are expressed on a dry weight basis. * The surrogates were diluted out.

PCB Report

Authorized signature

analytics environmental laboratory LLC

PCB CONFIRMATION RESULTS

Quote#: SDG: 48137

Project No: CTO 03 Site ID: BNAS Bldg 335 PCB C/U Location: Topsham, ME

Instrument ID: F GC Columns: RTX-CLPesticidesI ID: 0.53(mm)

RTX-CLPesticidesII

Sample ID: 48137-7

COMPOUND	RESPONSE #1 (ug/kg)	RESPONSE #2 (ug/kg)	DIFFERENCE %	#	% DIFFERENCE Acceptance Limit
PCB 1254	2230	2450	9		40

Column to be used to flag % Difference with an asterisk

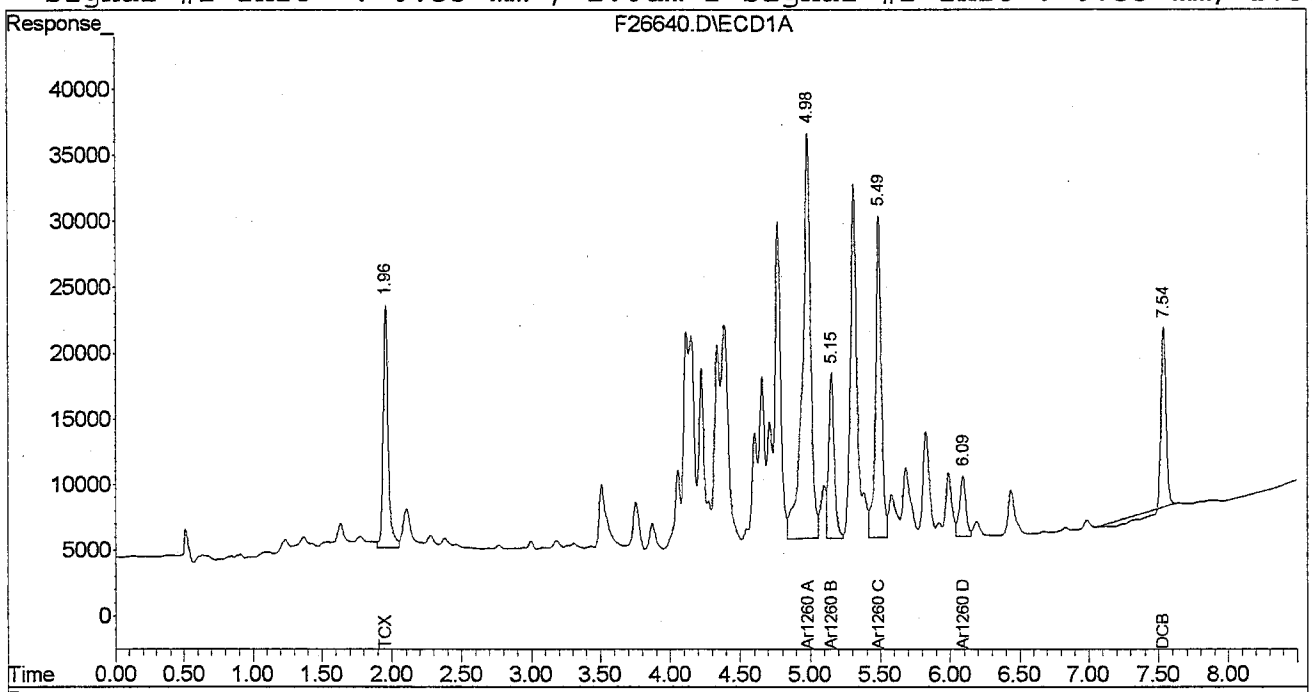
* Values outside of QC limits

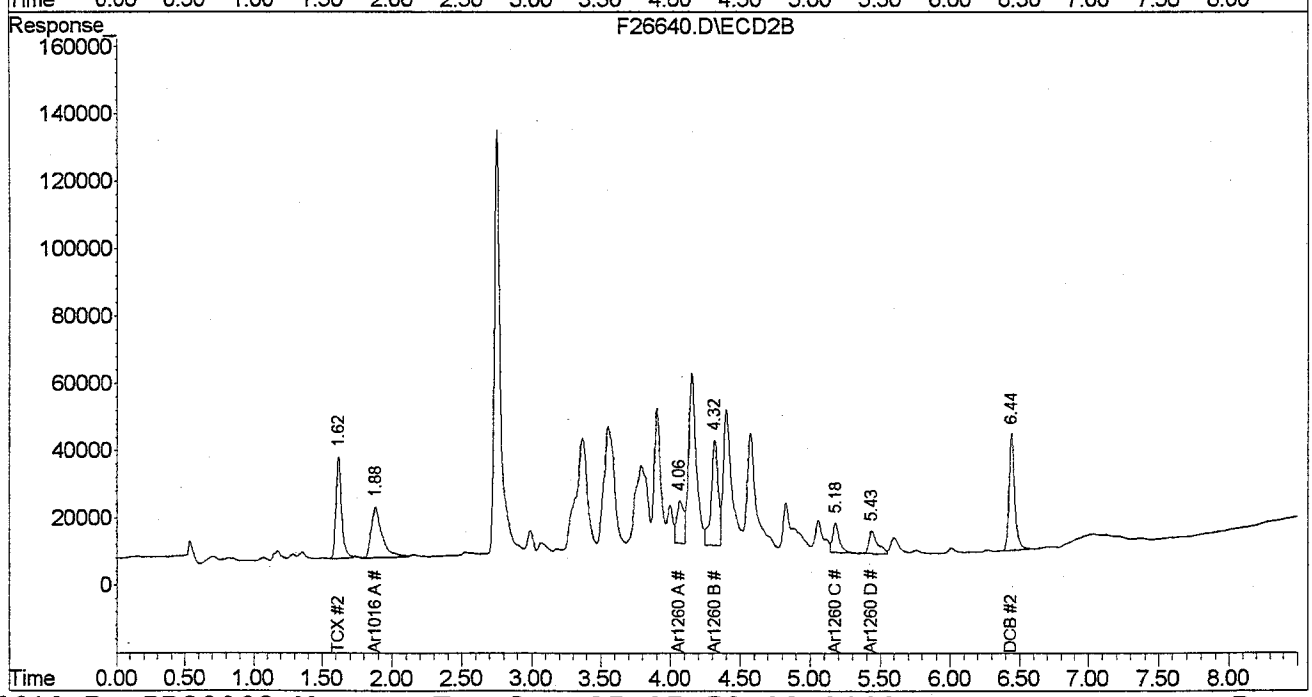
Quantitation Report (Not Reviewed)

Signal #1 : D:\HPCHEM\2\DATA\082602-F\F26640.D\ECD1A.CH Vial: 43
Signal #2 : D:\HPCHEM\2\DATA\082602-F\F26640.D\ECD2B.CH
Acq On : 26 Aug 2002 6:38 pm Operator:
Sample : 48137-7 1:10 A/C Inst : Instrume
Misc : SOIL Multiplr: 1.00
IntFile Signal #1: PCBINT.E IntFile Signal #2: PCBINT2.E
Quant Time: Aug 27 7:58 2002 Quant Results File: PBQ8092.RES

Quant Method : D:\HPCHEM\2\METHODS\PBQ8092.M (Chemstation Integrator)
Title : Aroclor 1016/1260
Last Update : Mon Aug 26 10:29:15 2002
Response via : Multiple Level Calibration
DataAcq Meth : PCB.M

Volume Inj. : 3 ul
Signal #1 Phase : DB-1701 Widebore Signal #2 Phase: DB-5 Widebore
Signal #1 Info : 0.53 mm , 1.0um f Signal #2 Info : 0.53 mm, 1.5um fil





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Mr. Josh Holden
Foster Wheeler Environmental Corp.
P.O. Box 660
Kittery ME 03904

August 27, 2002

SAMPLE DATA

Lab Sample ID:	48137-8
Matrix:	Solid
Percent Solid:	88
Dilution Factor:	1.1
Collection Date:	08/23/02
Lab Receipt Date:	08/23/02
Extraction Date:	08/23/02
Analysis Date:	08/26/02

CLIENT SAMPLE ID

Project Name:	BNAS- Bldg 335 PCB C/U
Project Number:	CTO-03
Field Sample ID:	CS-1-BS

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/kg	Results µg/kg
PCB-1016	17	U
PCB-1221	17	U
PCB-1232	17	U
PCB-1242	17	U
PCB-1248	17	U
PCB-1254	17	**29**
PCB-1260	17	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	97	%
Decachlorobiphenyl	88	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3545.

COMMENTS: Results are expressed on a dry weight basis.

PCB Report

Authorized signature Melissa A. Hall

analytics environmental laboratory LLC

PCB CONFIRMATION RESULTS

Quote#:

SDG: 48137

Project No: CTO 03

Site ID: BNAS Bldg 335 PCB C/U

Location: Topsham, ME

Instrument ID: F

GC Columns: RTX-CLPesticidesI
RTX-CLPesticidesII

ID: 0.53(mm)

Sample ID: 48137-8

COMPOUND	RESPONSE #1 (ug/kg)	RESPONSE #2 (ug/kg)	DIFFERENCE %	#	% DIFFERENCE Acceptance Limit
PCB 1254	29	22	28		40

Column to be used to flag % Difference with an asterisk

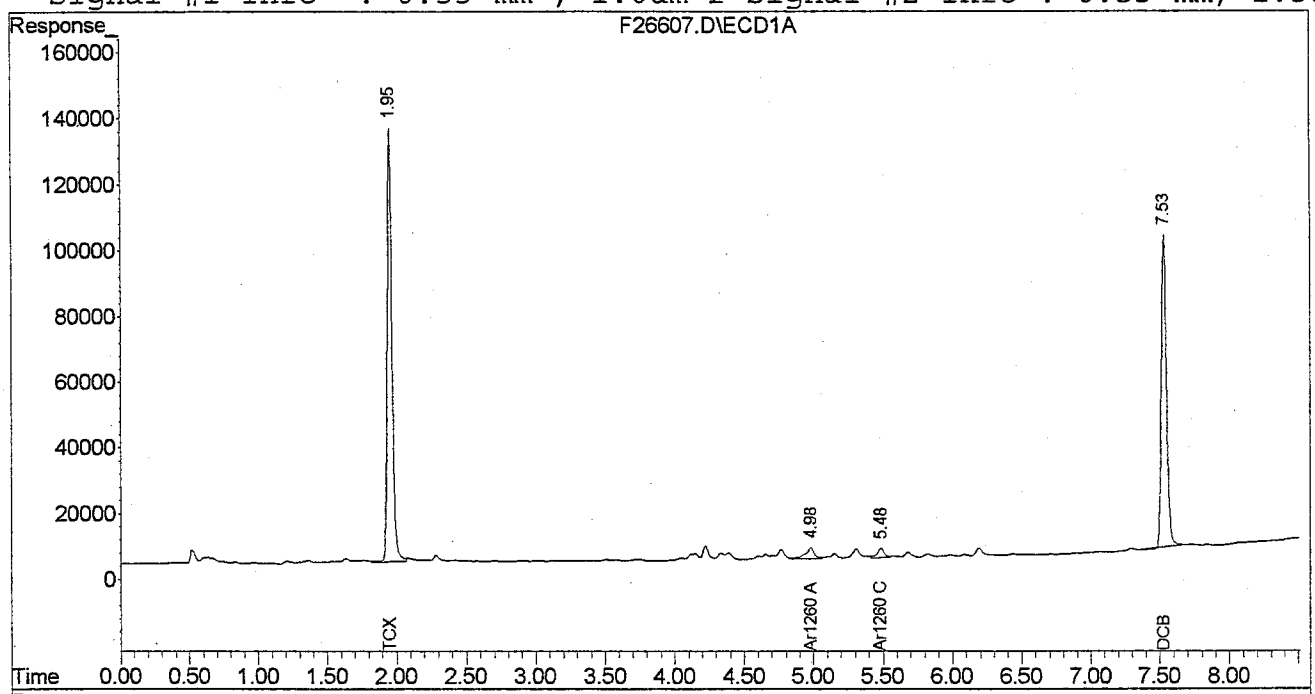
* Values outside of QC limits

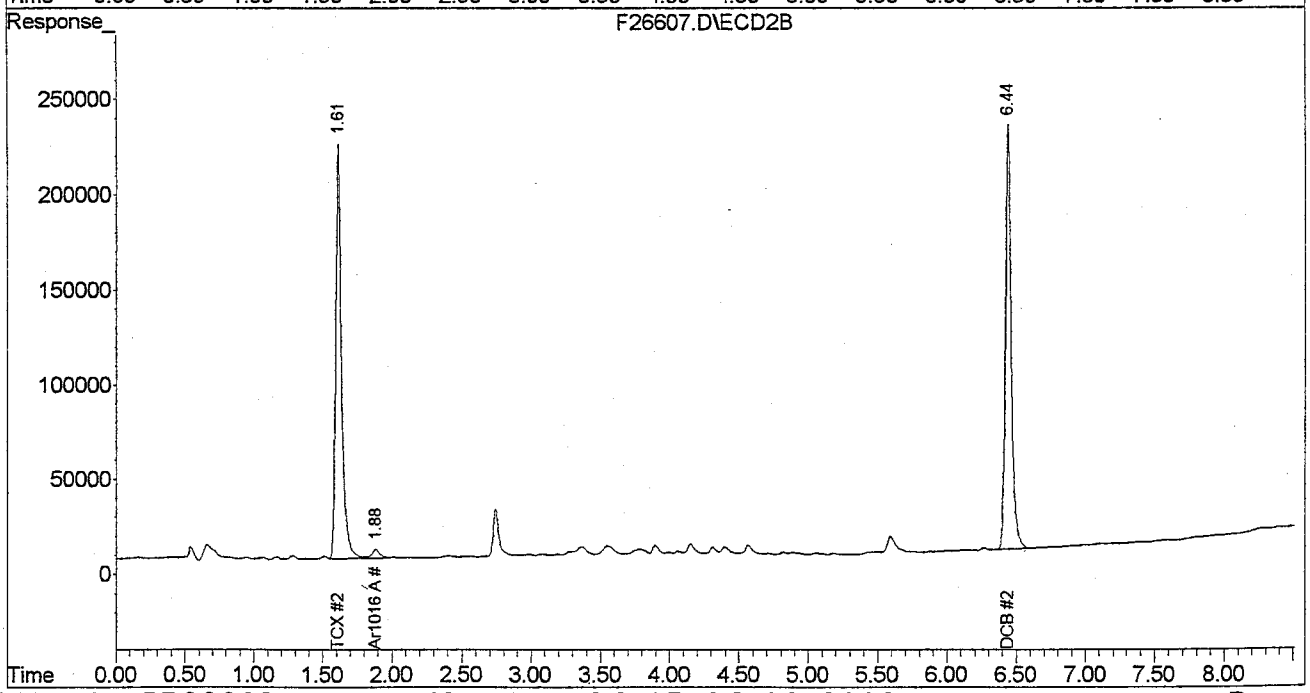
Quantitation Report (Not Reviewed)

Signal #1 : D:\HPCHEM\2\DATA\082602-F\F26607.D\ECD1A.CH Vial: 11
Signal #2 : D:\HPCHEM\2\DATA\082602-F\F26607.D\ECD2B.CH
Acq On : 26 Aug 2002 12:18 pm Operator:
Sample : 48137-8 Inst : Instrume
Misc : SOIL Multiplr: 1.00
IntFile Signal #1: PCBINT.E IntFile Signal #2: PCBINT2.E
Quant Time: Aug 26 15:05 2002 Quant Results File: PBQ8092.RES

Quant Method : D:\HPCHEM\2\METHODS\PBQ8092.M (Chemstation Integrator)
Title : Aroclor 1016/1260
Last Update : Mon Aug 26 10:29:15 2002
Response via : Multiple Level Calibration
DataAcq Meth : PCB.M

Volume Inj. : 3 ul
Signal #1 Phase : DB-1701 Widebore Signal #2 Phase: DB-5 Widebore
Signal #1 Info : 0.53 mm , 1.0um f Signal #2 Info : 0.53 mm, 1.5um fil





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Mr. Josh Holden
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August 27, 2002

SAMPLE DATA

Lab Sample ID:	48137-9
Matrix:	Solid
Percent Solid:	89
Dilution Factor:	1.1
Collection Date:	08/23/02
Lab Receipt Date:	08/23/02
Extraction Date:	08/23/02
Analysis Date:	08/26/02

CLIENT SAMPLE ID

Project Name:	BNAS- Bldg 335 PCB C/U
Project Number:	CTO-03
Field Sample ID:	CS-4-BS

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/kg	Results µg/kg
PCB-1016	17	U
PCB-1221	17	U
PCB-1232	17	U
PCB-1242	17	U
PCB-1248	17	U
PCB-1254	17	**189**
PCB-1260	17	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	106	%
Decachlorobiphenyl	101	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3545.

COMMENTS: Results are expressed on a dry weight basis.

PCB Report

Authorized signature Melissa A Hall

analytics environmental laboratory LLC

PCB CONFIRMATION RESULTS

Quote#:

SDG: 48137

Project No: CTO 03

Site ID: BNAS Bldg 335 PCB C/U

Location: Topsham, ME

Instrument ID: F

GC Columns: RTX-CLPesticidesI
RTX-CLPesticidesII

ID: 0.53(mm)

Sample ID: 48137-9

COMPOUND	RESPONSE #1 (ug/kg)	RESPONSE #2 (ug/kg)	DIFFERENCE %	#	% DIFFERENCE Acceptance Limit
PCB 1254	189	210	10		40

Column to be used to flag % Difference with an asterisk

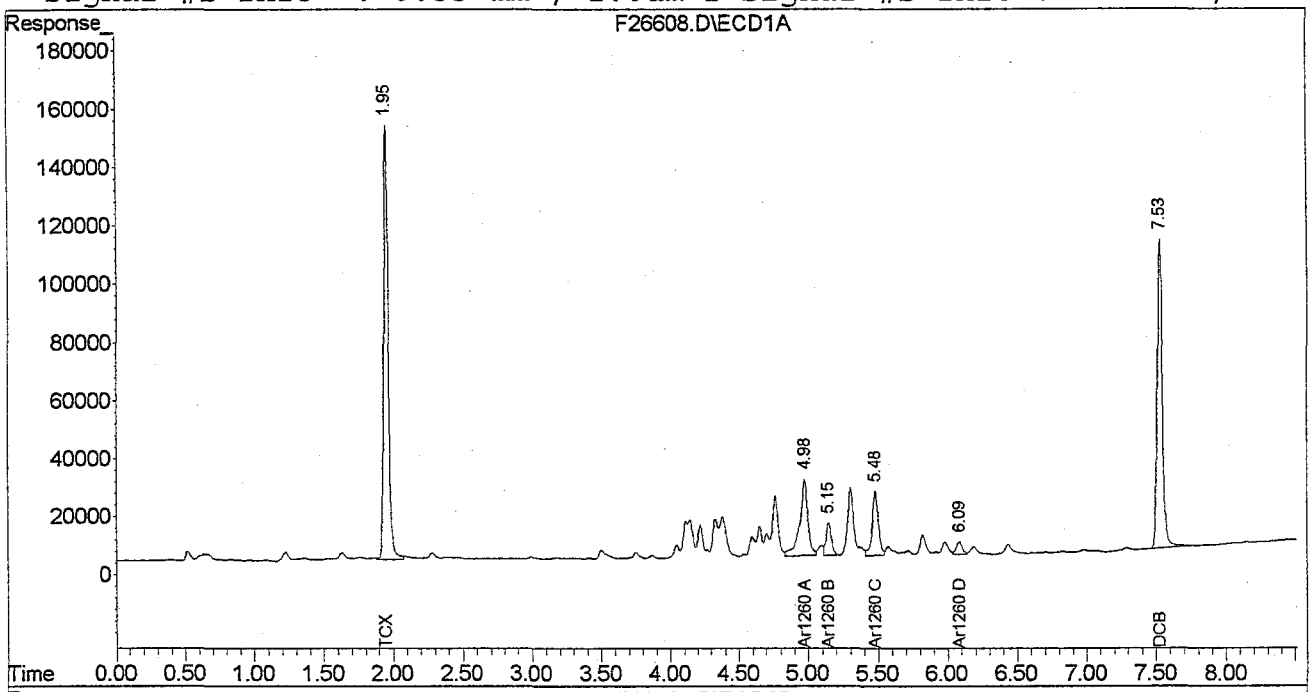
* Values outside of QC limits

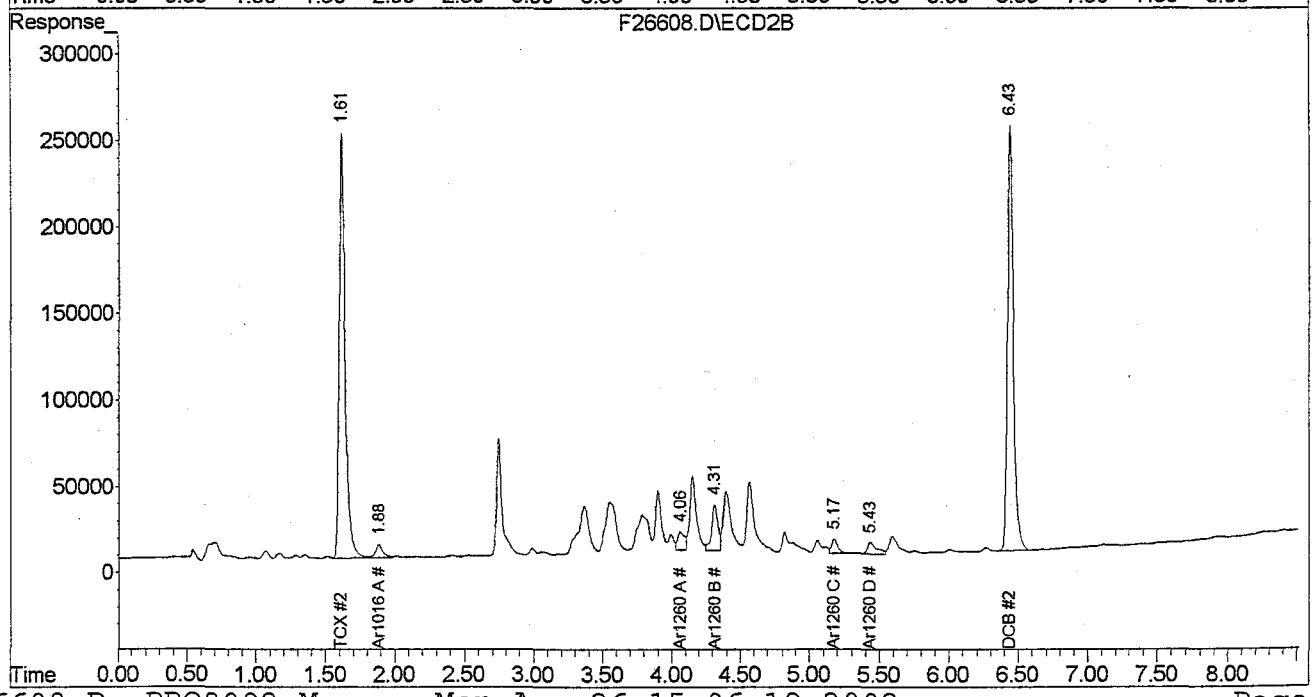
Quantitation Report (Not Reviewed)

Signal #1 : D:\HPCHEM\2\DATA\082602-F\F26608.D\ECD1A.CH Vial: 12
Signal #2 : D:\HPCHEM\2\DATA\082602-F\F26608.D\ECD2B.CH
Acq On : 26 Aug 2002 12:29 pm Operator:
Sample : 48137-9 Inst : Instrume
Misc : SOIL Multiplr: 1.00
IntFile Signal #1: PCBINT.E IntFile Signal #2: PCBINT2.E
Quant Time: Aug 26 15:06 2002 Quant Results File: PBQ8092.RES

Quant Method : D:\HPCHEM\2\METHODS\PBQ8092.M (Chemstation Integrator)
Title : Aroclor 1016/1260
Last Update : Mon Aug 26 10:29:15 2002
Response via : Multiple Level Calibration
DataAcq Meth : PCB.M

Volume Inj. : 3 ul
Signal #1 Phase : DB-1701 Widebore Signal #2 Phase: DB-5 Widebore
Signal #1 Info : 0.53 mm , 1.0um f Signal #2 Info : 0.53 mm, 1.5um fil





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Mr. Josh Holden
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August 27, 2002

SAMPLE DATA

Lab Sample ID:	48137-10
Matrix:	Solid
Percent Solid:	89
Dilution Factor:	1.1
Collection Date:	08/23/02
Lab Receipt Date:	08/23/02
Extraction Date:	08/23/02
Analysis Date:	08/26/02

CLIENT SAMPLE ID

Project Name:	BNAS- Bldg 335 PCB C/U
Project Number:	CTO-03
Field Sample ID:	CS-7-BS

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/kg	Results µg/kg
PCB-1016	17	U
PCB-1221	17	U
PCB-1232	17	U
PCB-1242	17	U
PCB-1248	17	U
PCB-1254	17	**109**
PCB-1260	17	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	110	%
Decachlorobiphenyl	101	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3545.

COMMENTS: Results are expressed on a dry weight basis.

PCB Report

Authorized signature Melissa A Hall

analytics environmental laboratory LLC

PCB CONFIRMATION RESULTS

Quote#: SDG: 48137

Project No: CTO 03 Site ID: BNAS Bldg 335 PCB C/U Location: Topsham, ME

Instrument ID: F GC Columns: RTX-CLPesticidesI ID: 0.53(mm)

RTX-CLPesticidesII

Sample ID: 48137-10

COMPOUND	RESPONSE #1 (ug/kg)	RESPONSE #2 (ug/kg)	DIFFERENCE %	#	% DIFFERENCE Acceptance Limit
PCB 1254	109	118	8		40

Column to be used to flag % Difference with an asterisk

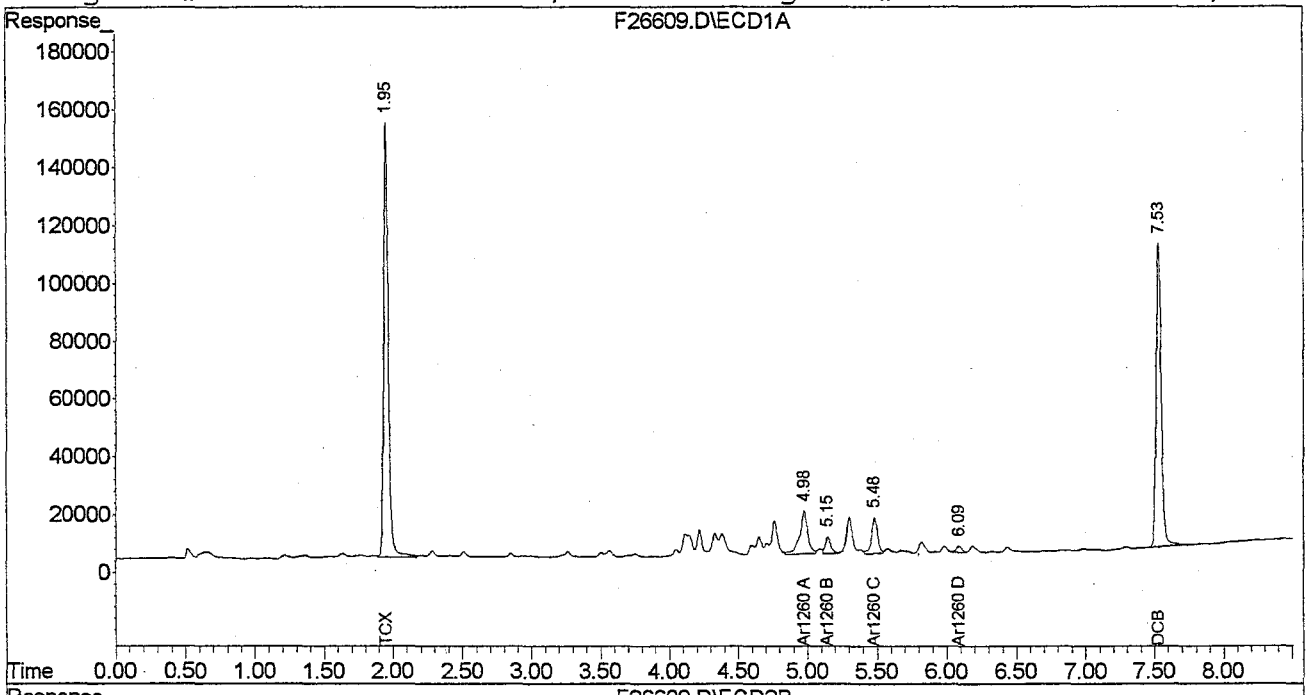
* Values outside of QC limits

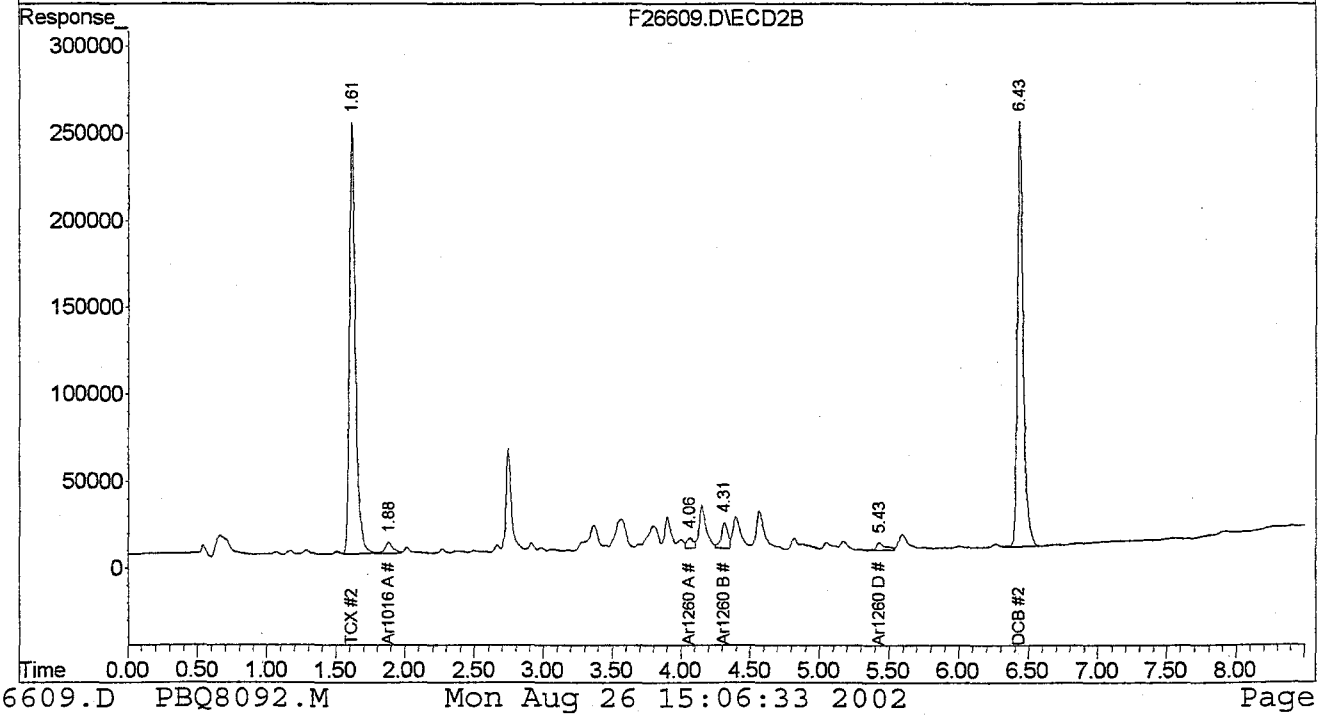
Quantitation Report (Not Reviewed)

Signal #1 : D:\HPCHEM\2\DATA\082602-F\F26609.D\ECD1A.CH Vial: 13
Signal #2 : D:\HPCHEM\2\DATA\082602-F\F26609.D\ECD2B.CH
Acq On : 26 Aug 2002 12:41 pm Operator:
Sample : 48137-10 Inst : Instrume
Misc : SOIL Multiplr: 1.00
IntFile Signal #1: PCBINT.E IntFile Signal #2: PCBINT2.E
Quant Time: Aug 26 15:06 2002 Quant Results File: PBQ8092.RES

Quant Method : D:\HPCHEM\2\METHODS\PBQ8092.M (Chemstation Integrator)
Title : Aroclor 1016/1260
Last Update : Mon Aug 26 10:29:15 2002
Response via : Multiple Level Calibration
DataAcq Meth : PCB.M

Volume Inj. : 3 ul
Signal #1 Phase : DB-1701 Widebore Signal #2 Phase: DB-5 Widebore
Signal #1 Info : 0.53 mm , 1.0um f Signal #2 Info : 0.53 mm, 1.5um fil





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Mr. Josh Holden
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August 27, 2002

SAMPLE DATA

Lab Sample ID:	48137-11
Matrix:	Solid
Percent Solid:	95
Dilution Factor:	11
Collection Date:	08/23/02
Lab Receipt Date:	08/23/02
Extraction Date:	08/23/02
Analysis Date:	08/26/02

CLIENT SAMPLE ID

Project Name:	BNAS- Bldg 335 PCB C/U
Project Number:	CTO-03
Field Sample ID:	CS-9-ESW

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/kg	Results µg/kg
PCB-1016	170	U
PCB-1221	170	U
PCB-1232	170	U
PCB-1242	170	U
PCB-1248	170	U
PCB-1254	170	**1310**
PCB-1260	170	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	*	%
Decachlorobiphenyl	*	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3545.

COMMENTS: Results are expressed on a dry weight basis. * The surrogates were diluted out.

PCB Report

Authorized signature Melena Astalli

analytics environmental laboratory LLC

PCB CONFIRMATION RESULTS

Quote#:

SDG: 48137

Project No: CTO 03

Site ID: BNAS Bldg 335 PCB C/U

Location: Topsham, ME

Instrument ID: F

GC Columns: RTX-CLPesticidesI
RTX-CLPesticidesII

ID: 0.53(mm)

Sample ID: 48137-11

COMPOUND	RESPONSE #1 (ug/kg)	RESPONSE #2 (ug/kg)	DIFFERENCE %	#	% DIFFERENCE Acceptance Limit
PCB 1254	1310	1450	10		40

Column to be used to flag % Difference with an asterisk

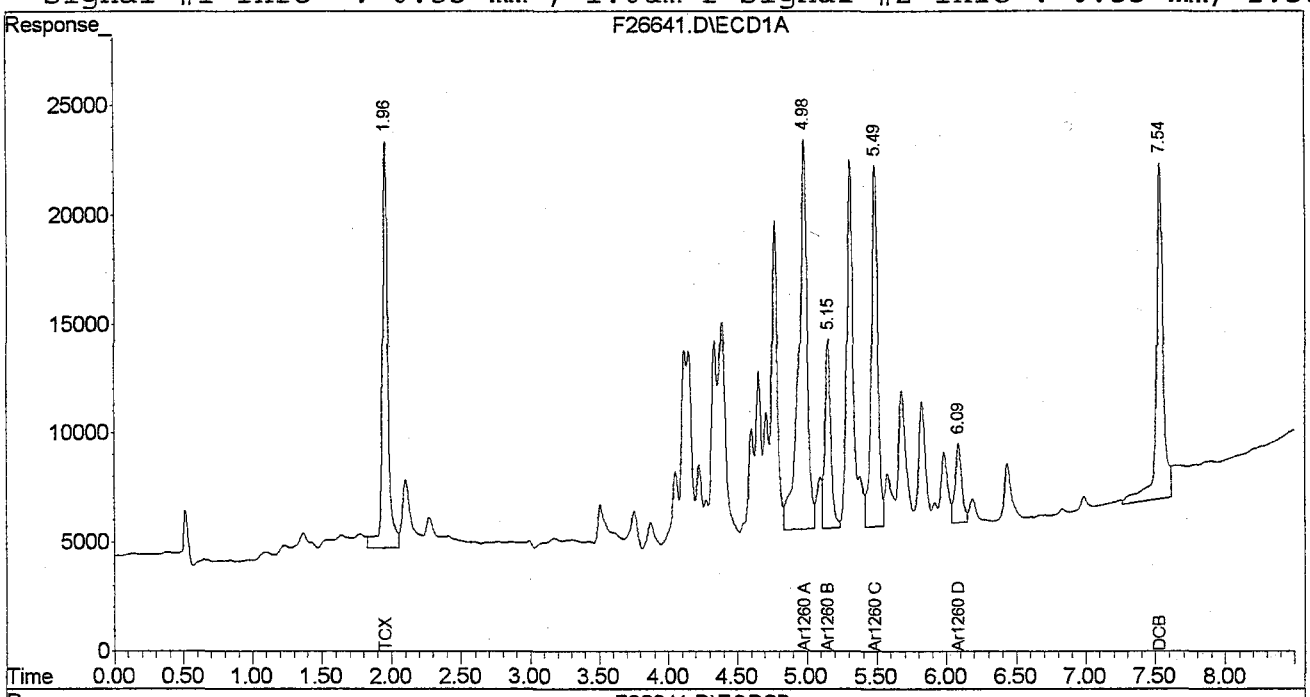
* Values outside of QC limits

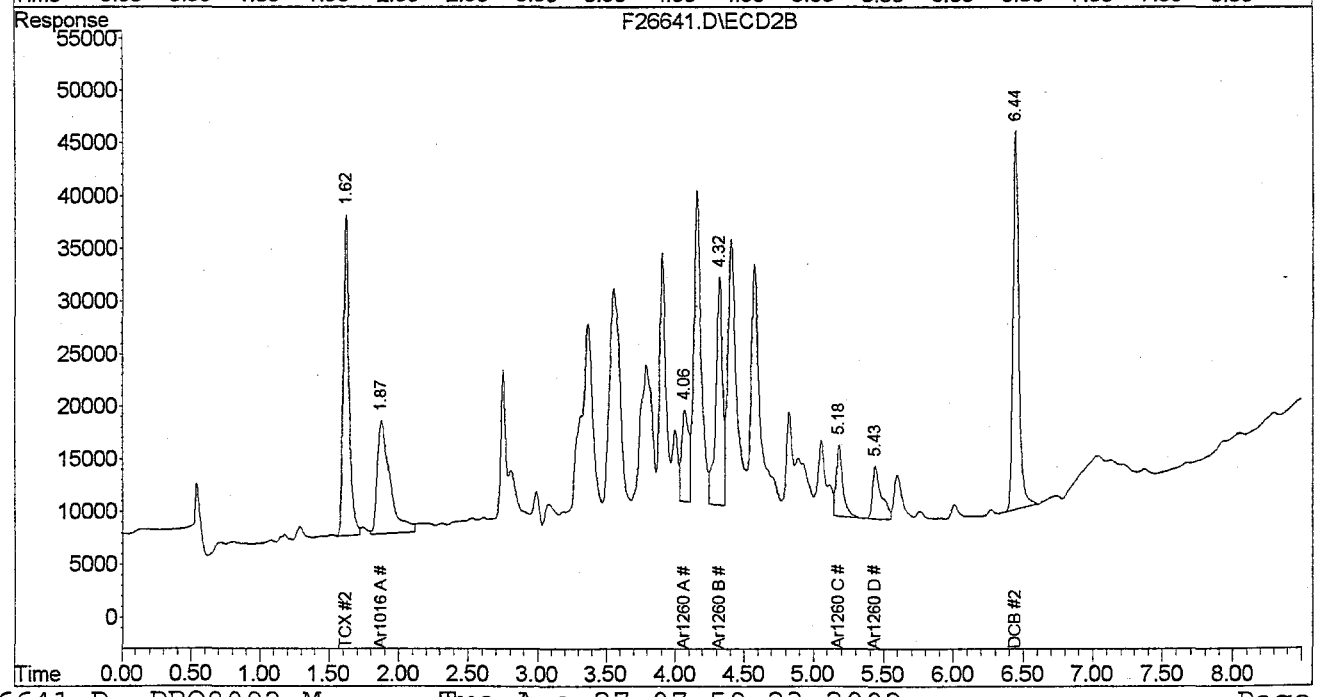
Quantitation Report (Not Reviewed)

Signal #1 : D:\HPCHEM\2\DATA\082602-F\F26641.D\ECD1A.CH Vial: 44
Signal #2 : D:\HPCHEM\2\DATA\082602-F\F26641.D\ECD2B.CH
Acq On : 26 Aug 2002 6:50 pm Operator:
Sample : 48137-11 1:10 A/C Inst : Instrume
Misc : SOIL Multiplr: 1.00
IntFile Signal #1: PCBINT.E IntFile Signal #2: PCBINT2.E
Quant Time: Aug 27 7:59 2002 Quant Results File: PBQ8092.RES

Quant Method : D:\HPCHEM\2\METHODS\PBQ8092.M (Chemstation Integrator)
Title : Aroclor 1016/1260
Last Update : Mon Aug 26 10:29:15 2002
Response via : Multiple Level Calibration
DataAcq Meth : PCB.M

Volume Inj. : 3 ul
Signal #1 Phase : DB-1701 Widebore Signal #2 Phase: DB-5 Widebore
Signal #1 Info : 0.53 mm , 1.0um f Signal #2 Info : 0.53 mm, 1.5um fil





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August 27, 2002

SAMPLE DATA

Lab Sample ID:	48137-12
Matrix:	Solid
Percent Solid:	95
Dilution Factor:	1.0
Collection Date:	08/23/02
Lab Receipt Date:	08/23/02
Extraction Date:	08/23/02
Analysis Date:	08/26/02

CLIENT SAMPLE ID

Project Name:	BNAS- Bldg 335 PCB C/U
Project Number:	CTO-03
Field Sample ID:	CS-9-SSW

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/kg	Results µg/kg
PCB-1016	15	U
PCB-1221	15	U
PCB-1232	15	U
PCB-1242	15	U
PCB-1248	15	U
PCB-1254	15	**289**
PCB-1260	15	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	112	%
Decachlorobiphenyl	102	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

COMMENTS: Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3545. Results are expressed on a dry weight basis.

PCB Report

Authorized signature Melena Cabelli

analytics environmental laboratory LLC

PCB CONFIRMATION RESULTS

Quote#:

SDG: 48137

Project No: CTO 03

Site ID: BNAS Bldg 335 PCB C/U

Location: Topsham, ME

Instrument ID: F

GC Columns: RTX-CLPesticidesI
RTX-CLPesticidesII

ID: 0.53(mm)

Sample ID: 48137-12

COMPOUND	RESPONSE #1 (ug/kg)	RESPONSE #2 (ug/kg)	DIFFERENCE %	#	% DIFFERENCE Acceptance Limit
PCB 1254	289	351	19		40

Column to be used to flag % Difference with an asterisk

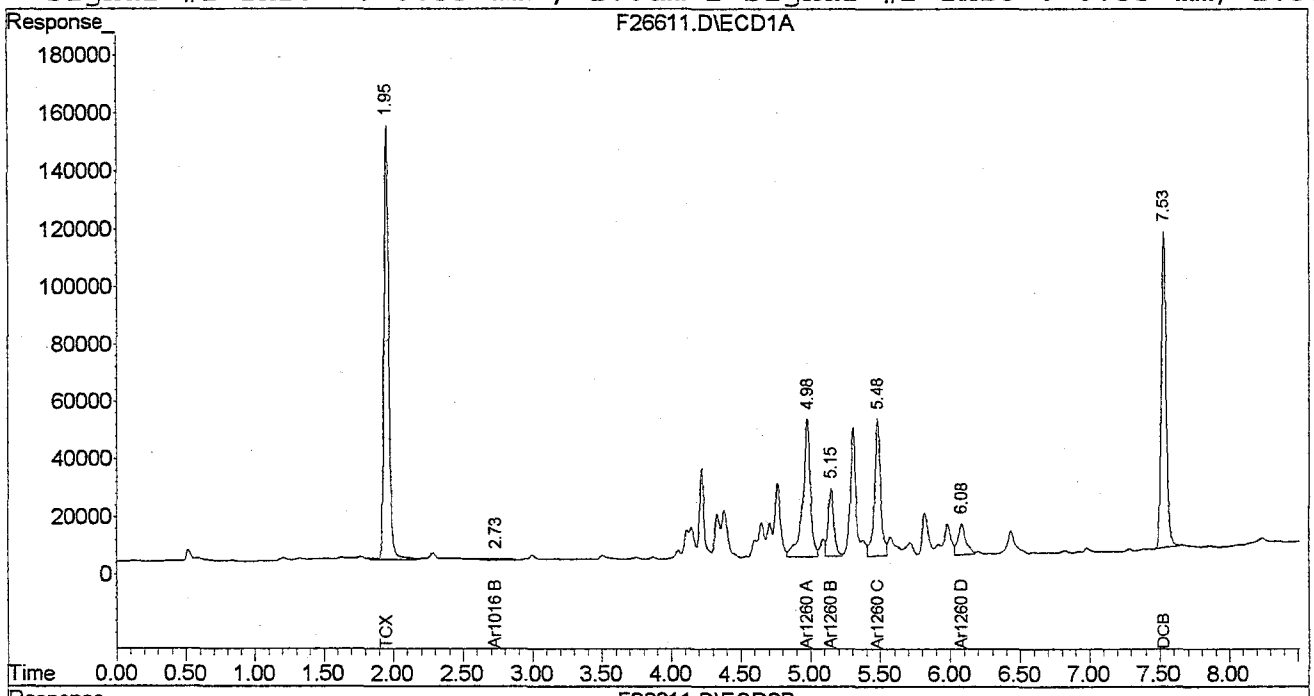
* Values outside of QC limits

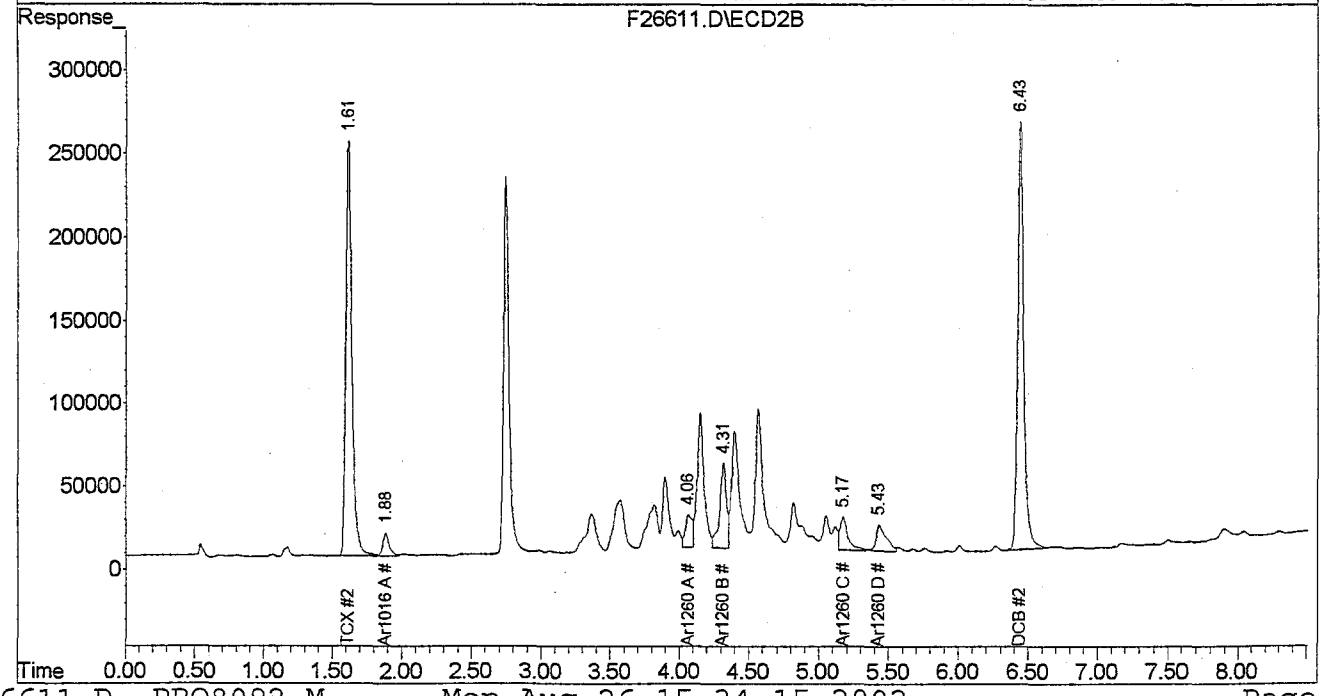
Quantitation Report (Not Reviewed)

Signal #1 : D:\HPCHEM\2\DATA\082602-F\F26611.D\ECD1A.CH Vial: 15
Signal #2 : D:\HPCHEM\2\DATA\082602-F\F26611.D\ECD2B.CH
Acq On : 26 Aug 2002 1:04 pm Operator:
Sample : 48137-12 A/C Inst : Instrume
Misc : SOIL Multiplr: 1.00
IntFile Signal #1: PCBINT.E IntFile Signal #2: PCBINT2.E
Quant Time: Aug 26 15:06 2002 Quant Results File: PBQ8092.RES

Quant Method : D:\HPCHEM\2\METHODS\PBQ8092.M (Chemstation Integrator)
Title : Aroclor 1016/1260
Last Update : Mon Aug 26 10:29:15 2002
Response via : Multiple Level Calibration
DataAcq Meth : PCB.M

Volume Inj. : 3 ul
Signal #1 Phase : DB-1701 Widebore Signal #2 Phase: DB-5 Widebore
Signal #1 Info : 0.53 mm , 1.0um f Signal #2 Info : 0.53 mm, 1.5um fil





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Mr. Josh Holden
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August 27, 2002

SAMPLE DATA

Lab Sample ID:	48137-13
Matrix:	Solid
Percent Solid:	93
Dilution Factor:	1.1
Collection Date:	08/23/02
Lab Receipt Date:	08/23/02
Extraction Date:	08/23/02
Analysis Date:	08/26/02

CLIENT SAMPLE ID

Project Name:	BNAS- Bldg 335 PCB C/U
Project Number:	CTO-03
Field Sample ID:	CS-8-SSW

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/kg	Results µg/kg
PCB-1016	17	U
PCB-1221	17	U
PCB-1232	17	U
PCB-1242	17	U
PCB-1248	17	U
PCB-1254	17	**592**
PCB-1260	17	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	103	%
Decachlorobiphenyl	102	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3545.

COMMENTS: Results are expressed on a dry weight basis.

PCB Report

Authorized signature Melissa A. Hall

analytics environmental laboratory LLC

PCB CONFIRMATION RESULTS

Quote#: SDG: 48137

Project No: CTO 03 Site ID: BNAS Bldg 335 PCB C/U Location: Topsham, ME

Instrument ID: F GC Columns: RTX-CLPesticidesI ID: 0.53(mm)

RTX-CLPesticidesII

Sample ID: 48137-13

COMPOUND	RESPONSE #1 (ug/kg)	RESPONSE #2 (ug/kg)	DIFFERENCE %	#	% DIFFERENCE Acceptance Limit
PCB 1254	592	691	15		40

Column to be used to flag % Difference with an asterisk

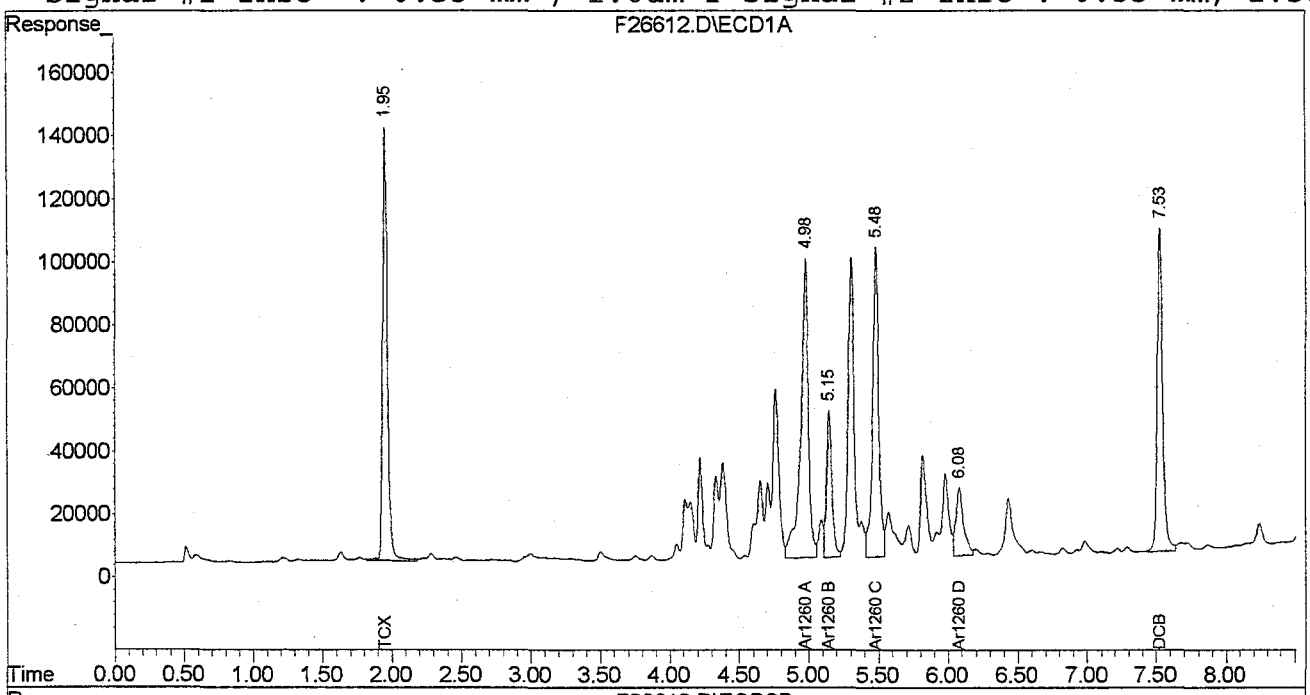
* Values outside of QC limits

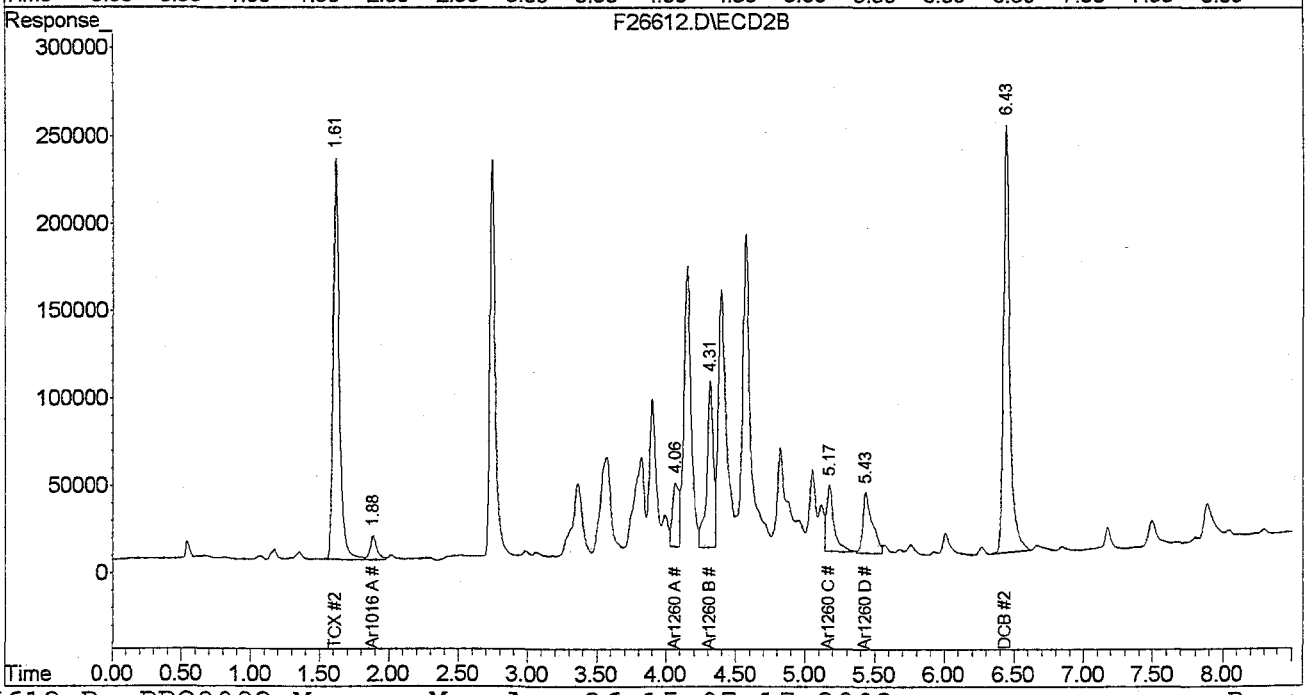
Quantitation Report (Not Reviewed)

Signal #1 : D:\HPCHEM\2\DATA\082602-F\F26612.D\ECD1A.CH Vial: 16
Signal #2 : D:\HPCHEM\2\DATA\082602-F\F26612.D\ECD2B.CH
Acq On : 26 Aug 2002 1:16 pm Operator:
Sample : 48137-13 A/C Inst : Instrume
Misc : SOIL Multiplr: 1.00
IntFile Signal #1: PCBINT.E IntFile Signal #2: PCBINT2.E
Quant Time: Aug 26 15:07 2002 Quant Results File: PBQ8092.RES

Quant Method : D:\HPCHEM\2\METHODS\PBQ8092.M (Chemstation Integrator)
Title : Aroclor 1016/1260
Last Update : Mon Aug 26 10:29:15 2002
Response via : Multiple Level Calibration
DataAcq Meth : PCB.M

Volume Inj. : 3 ul
Signal #1 Phase : DB-1701 Widebore Signal #2 Phase: DB-5 Widebore
Signal #1 Info : 0.53 mm , 1.0um f Signal #2 Info : 0.53 mm, 1.5um fil





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Mr. Josh Holden
Foster Wheeler Environmental Corp.
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August 27, 2002

SAMPLE DATA

Lab Sample ID:	48137-14
Matrix:	Solid
Percent Solid:	94
Dilution Factor:	11
Collection Date:	08/23/02
Lab Receipt Date:	08/23/02
Extraction Date:	08/23/02
Analysis Date:	08/26/02

CLIENT SAMPLE ID

Project Name:	BNAS- Bldg 335 PCB C/U
Project Number:	CTO-03
Field Sample ID:	CS-7-SSW

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/kg	Results µg/kg
PCB-1016	170	U
PCB-1221	170	U
PCB-1232	170	U
PCB-1242	170	U
PCB-1248	170	U
PCB-1254	170	**1040**
PCB-1260	170	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	*	%
Decachlorobiphenyl	*	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3545.

COMMENTS: Results are expressed on a dry weight basis. * The surrogates were diluted out.

PCB Report

Authorized signature Melissa A Tulli

analytics environmental laboratory LLC

PCB CONFIRMATION RESULTS

Quote#: SDG: 48137

Project No: CTO 03 Site ID: BNAS Bldg 335 PCB C/U Location: Topsham, ME

Instrument ID: F GC Columns: RTX-CLPesticidesI ID: 0.53(mm)

RTX-CLPesticidesII

Sample ID: 48137-14

COMPOUND	RESPONSE #1 (ug/kg)	RESPONSE #2 (ug/kg)	DIFFERENCE %	#	% DIFFERENCE Acceptance Limit
PCB 1254	1040	1280	21		40

Column to be used to flag % Difference with an asterisk

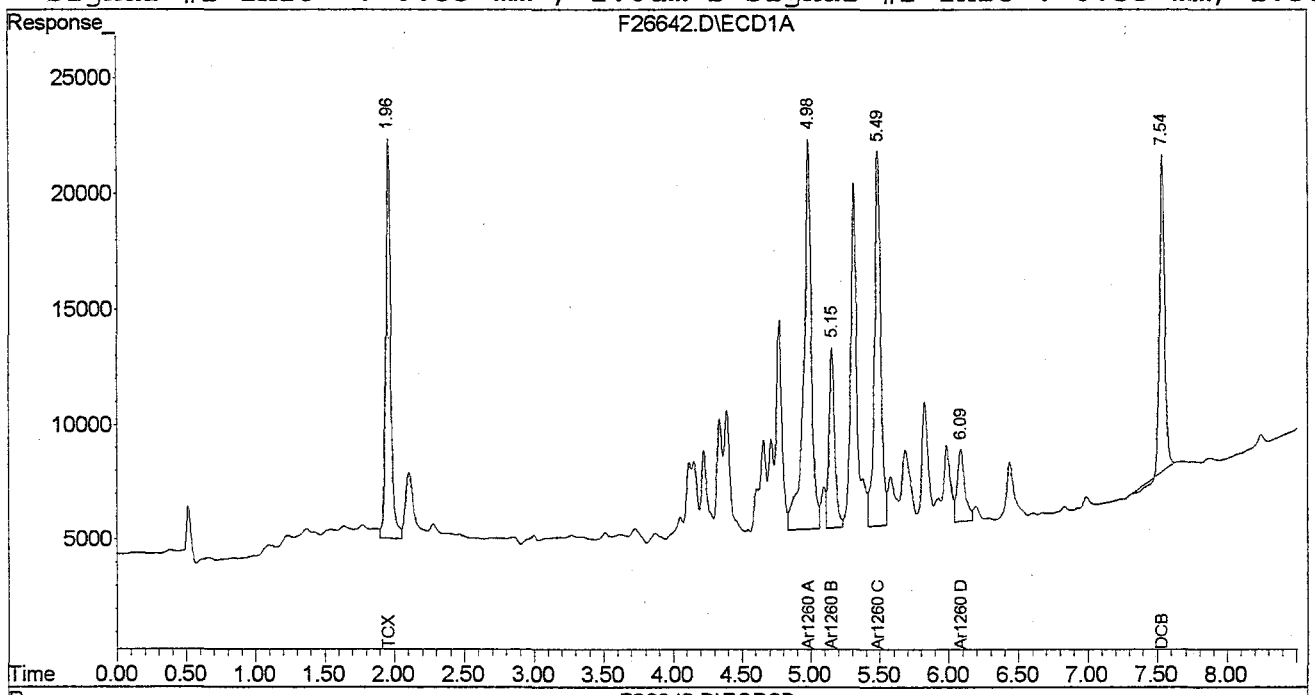
* Values outside of QC limits

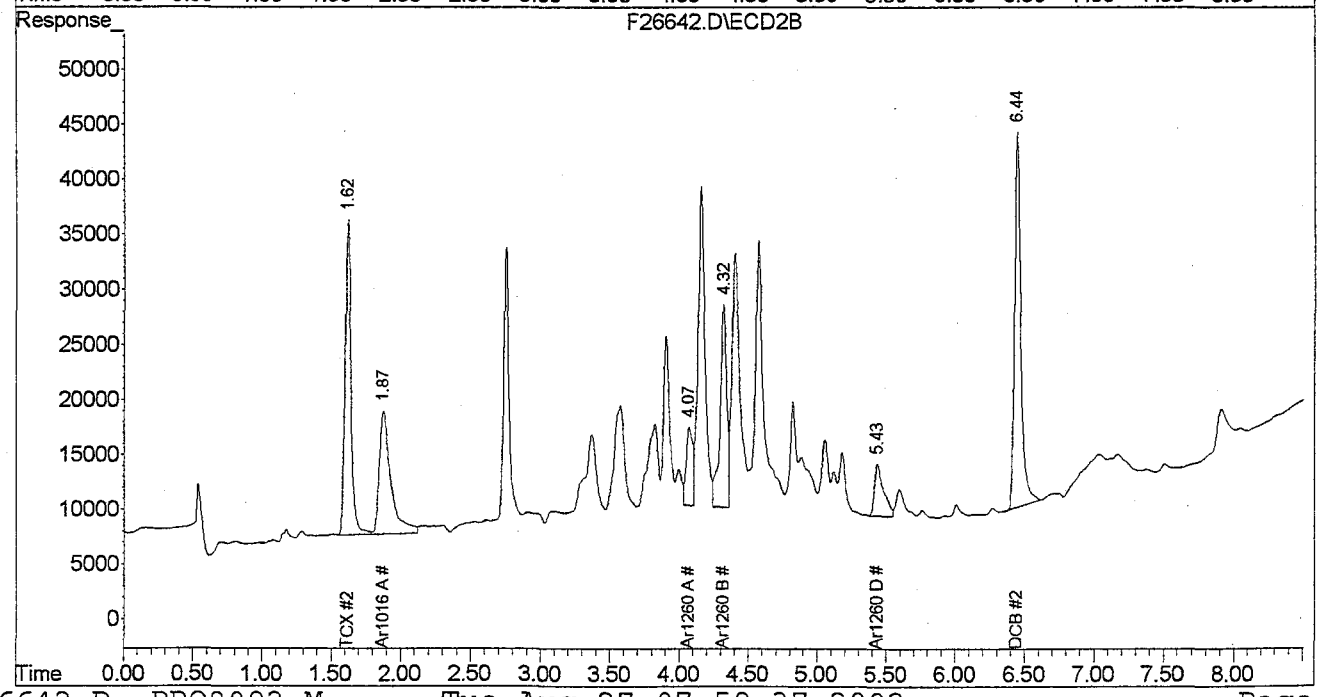
Quantitation Report (Not Reviewed)

Signal #1 : D:\HPCHEM\2\DATA\082602-F\F26642.D\ECD1A.CH Vial: 45
Signal #2 : D:\HPCHEM\2\DATA\082602-F\F26642.D\ECD2B.CH
Acq On : 26 Aug 2002 7:01 pm Operator:
Sample : 48137-14 1:10 A/C Inst : Instrume
Misc : SOIL Multiplr: 1.00
IntFile Signal #1: PCBINT.E IntFile Signal #2: PCBINT2.E
Quant Time: Aug 27 7:59 2002 Quant Results File: PBQ8092.RES

Quant Method : D:\HPCHEM\2\METHODS\PBQ8092.M (Chemstation Integrator)
Title : Aroclor 1016/1260
Last Update : Mon Aug 26 10:29:15 2002
Response via : Multiple Level Calibration
DataAcq Meth : PCB.M

Volume Inj. : 3 ul
Signal #1 Phase : DB-1701 Widebore Signal #2 Phase: DB-5 Widebore
Signal #1 Info : 0.53 mm , 1.0um f Signal #2 Info : 0.53 mm, 1.5um fil





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Mr. Josh Holden
Foster Wheeler Environmental Corp.
P.O. Box 660
Kittery ME 03904

August 27, 2002

SAMPLE DATA

Lab Sample ID:	48137-15
Matrix:	Solid
Percent Solid:	93
Dilution Factor:	1.1
Collection Date:	08/23/02
Lab Receipt Date:	08/23/02
Extraction Date:	08/23/02
Analysis Date:	08/26/02

CLIENT SAMPLE ID

Project Name:	BNAS- Bldg 335 PCB C/U
Project Number:	CTO-03
Field Sample ID:	CS-7-WSW

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/kg	Results µg/kg
PCB-1016	17	U
PCB-1221	17	U
PCB-1232	17	U
PCB-1242	17	U
PCB-1248	17	U
PCB-1254	17	**340**
PCB-1260	17	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	104	%
Decachlorobiphenyl	122	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3545.

COMMENTS: Results are expressed on a dry weight basis.

PCB Report

Authorized signature Melissa A. Hall

analytics environmental laboratory LLC

PCB CONFIRMATION RESULTS

Quote#: SDG: 48137

Project No: CTO 03 Site ID: BNAS Bldg 335 PCB C/U Location: Topsham, ME

Instrument ID: F GC Columns: RTX-CLPesticidesI ID: 0.53(mm)

RTX-CLPesticidesII

Sample ID: 48137-15

COMPOUND	RESPONSE #1 (ug/kg)	RESPONSE #2 (ug/kg)	DIFFERENCE %	#	% DIFFERENCE Acceptance Limit
PCB 1254	340	374	10		40

Column to be used to flag % Difference with an asterisk

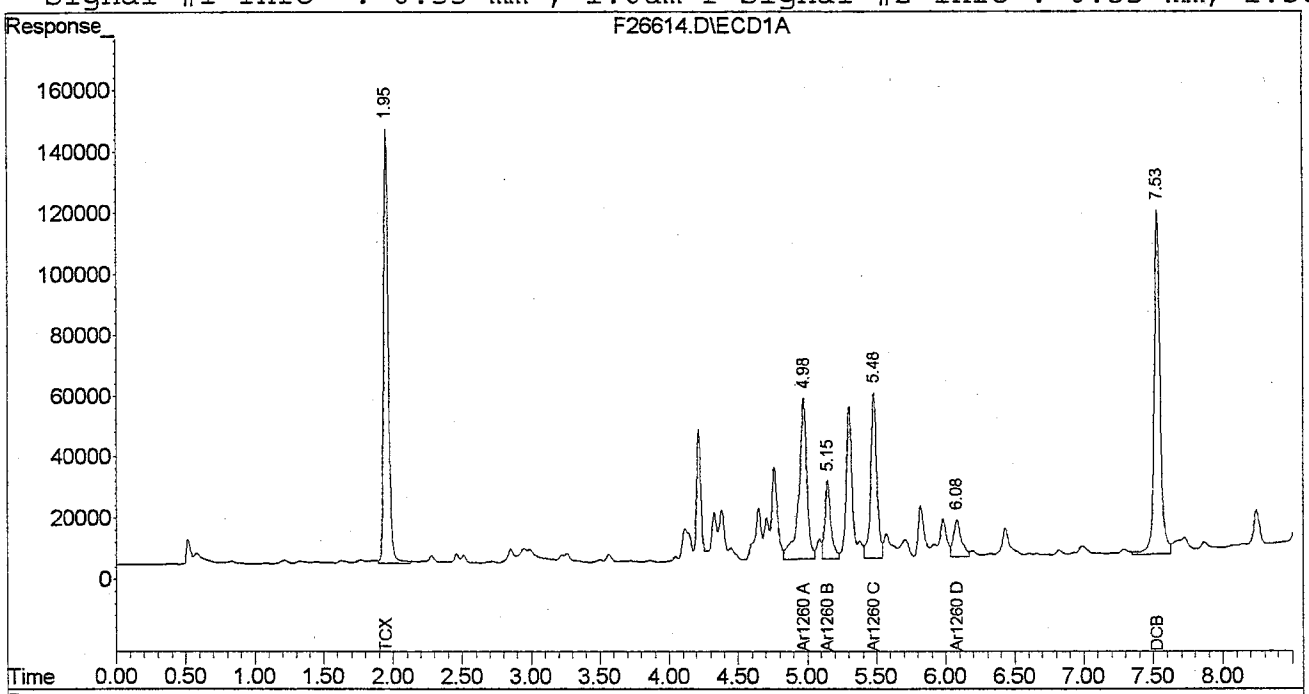
* Values outside of QC limits

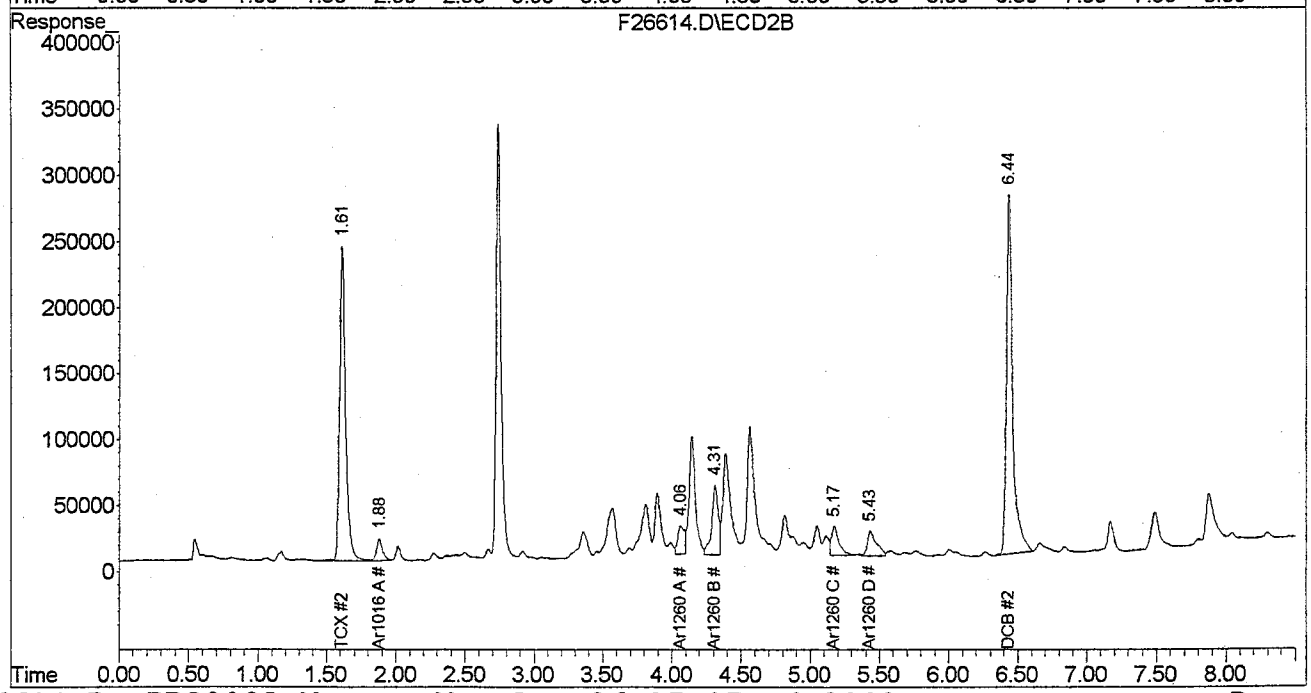
Quantitation Report (Not Reviewed)

Signal #1 : D:\HPCHEM\2\DATA\082602-F\F26614.D\ECD1A.CH Vial: 18
Signal #2 : D:\HPCHEM\2\DATA\082602-F\F26614.D\ECD2B.CH
Acq On : 26 Aug 2002 1:39 pm Operator:
Sample : 48137-15 A/C Inst : Instrume
Misc : SOIL Multiplr: 1.00
IntFile Signal #1: PCBINT.E IntFile Signal #2: PCBINT2.E
Quant Time: Aug 26 15:07 2002 Quant Results File: PBQ8092.RES

Quant Method : D:\HPCHEM\2\METHODS\PBQ8092.M (Chemstation Integrator)
Title : Aroclor 1016/1260
Last Update : Mon Aug 26 10:29:15 2002
Response via : Multiple Level Calibration
DataAcq Meth : PCB.M

Volume Inj. : 3 ul
Signal #1 Phase : DB-1701 Widebore Signal #2 Phase: DB-5 Widebore
Signal #1 Info : 0.53 mm , 1.0um f Signal #2 Info : 0.53 mm, 1.5um fil





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Mr. Josh Holden
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August 27, 2002

SAMPLE DATA

Lab Sample ID:	48137-16
Matrix:	Solid
Percent Solid:	89
Dilution Factor:	22
Collection Date:	08/23/02
Lab Receipt Date:	08/23/02
Extraction Date:	08/23/02
Analysis Date:	08/26/02

CLIENT SAMPLE ID

Project Name:	BNAS- Bldg 335 PCB C/U
Project Number:	CTO-03
Field Sample ID:	CS-4-WSW

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/kg	Results µg/kg
PCB-1016	330	U
PCB-1221	330	U
PCB-1232	330	U
PCB-1242	330	U
PCB-1248	330	U
PCB-1254	330	**4790**
PCB-1260	330	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	*	%
Decachlorobiphenyl	*	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3545.

COMMENTS: Results are expressed on a dry weight basis. * The surrogates were diluted out.

PCB Report

Authorized signature Melissa Adalli

analytics environmental laboratory LLC

PCB CONFIRMATION RESULTS

Quote#: SDG: 48137

Project No: CTO 03 Site ID: BNAS Bldg 335 PCB C/U Location: Topsham, ME

Instrument ID: F GC Columns: RTX-CLPesticidesI ID: 0.53(mm)

RTX-CLPesticidesII

Sample ID: 48137-16

COMPOUND	RESPONSE #1 (ug/kg)	RESPONSE #2 (ug/kg)	DIFFERENCE %	#	% DIFFERENCE Acceptance Limit
PCB 1254	4790	5320	10		40

Column to be used to flag % Difference with an asterisk

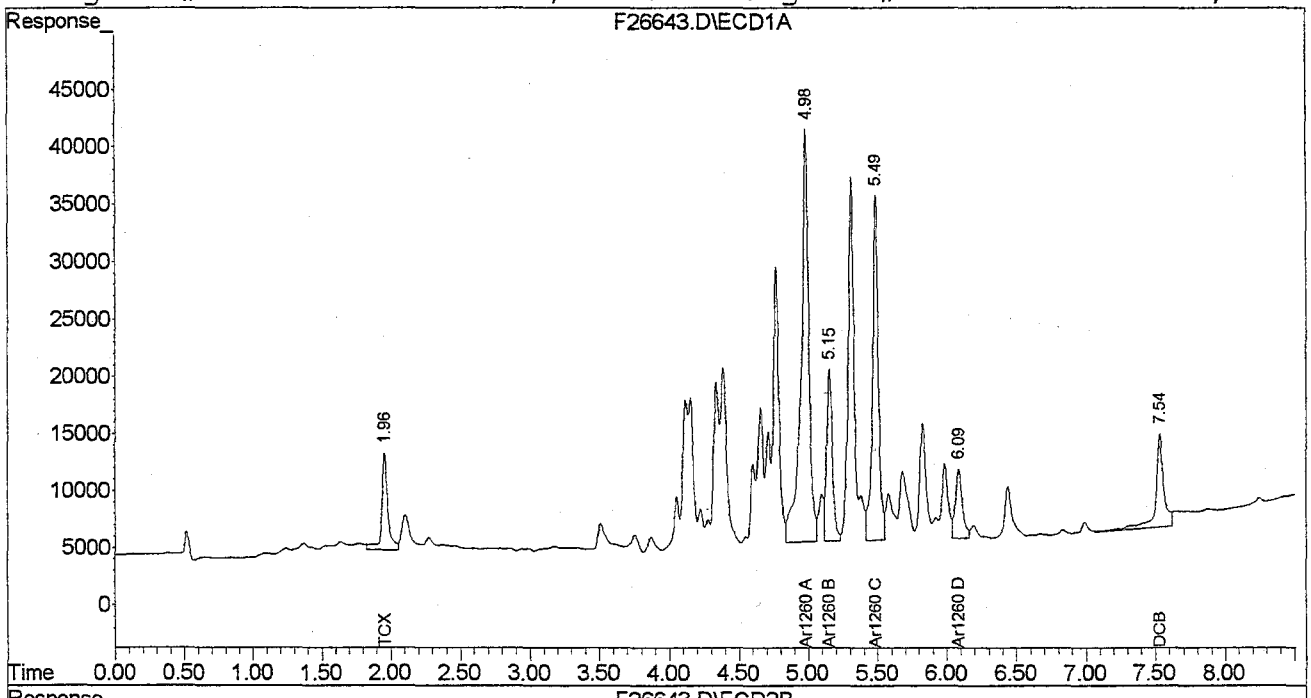
* Values outside of QC limits

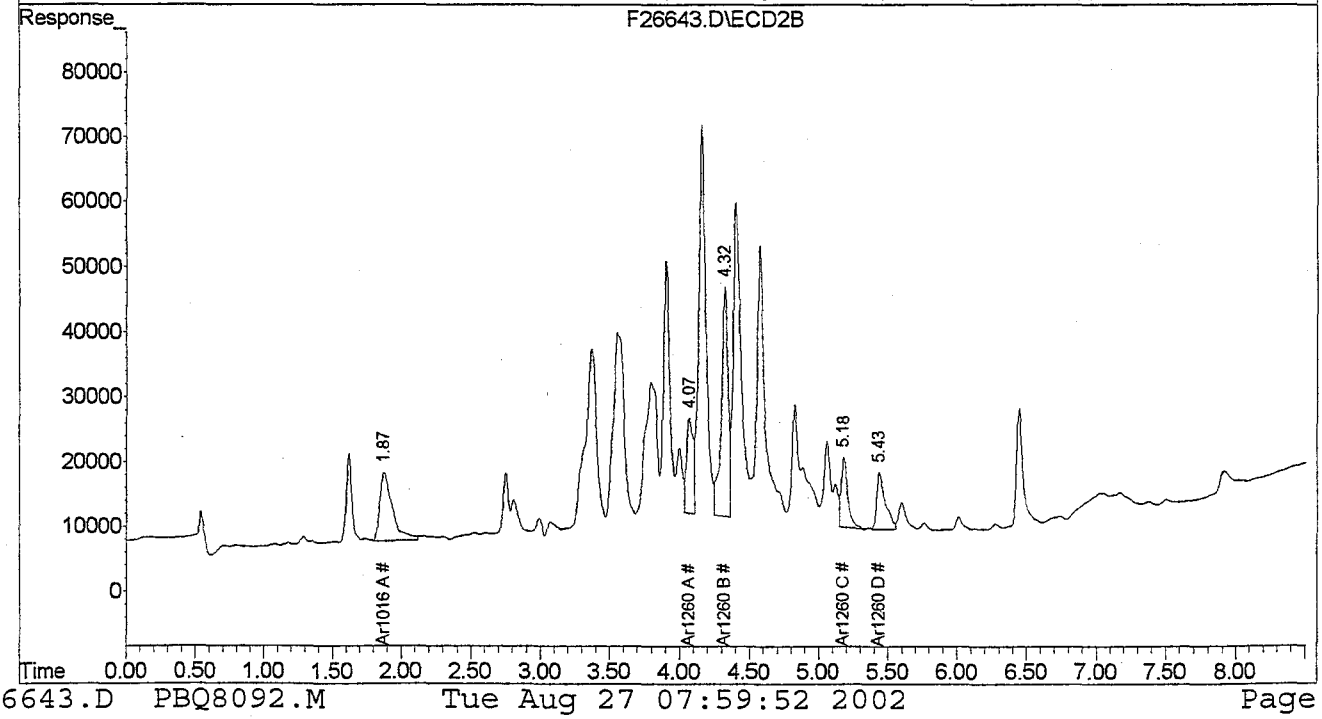
Quantitation Report (Not Reviewed)

Signal #1 : D:\HPCHEM\2\DATA\082602-F\F26643.D\ECD1A.CH Vial: 46
Signal #2 : D:\HPCHEM\2\DATA\082602-F\F26643.D\ECD2B.CH
Acq On : 26 Aug 2002 7:13 pm Operator:
Sample : 48137-16 1:20 A/C Inst : Instrume
Misc : SOIL Multiplr: 1.00
IntFile Signal #1: PCBINT.E IntFile Signal #2: PCBINT2.E
Quant Time: Aug 27 7:59 2002 Quant Results File: PBQ8092.RES

Quant Method : D:\HPCHEM\2\METHODS\PBQ8092.M (Chemstation Integrator)
Title : Aroclor 1016/1260
Last Update : Mon Aug 26 10:29:15 2002
Response via : Multiple Level Calibration
DataAcq Meth : PCB.M

Volume Inj. : 3 ul
Signal #1 Phase : DB-1701 Widebore Signal #2 Phase: DB-5 Widebore
Signal #1 Info : 0.53 mm , 1.0um f Signal #2 Info : 0.53 mm, 1.5um fil





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Mr. Josh Holden
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August 27, 2002

SAMPLE DATA

Lab Sample ID:	48137-17
Matrix:	Solid
Percent Solid:	92
Dilution Factor:	1.1
Collection Date:	08/23/02
Lab Receipt Date:	08/23/02
Extraction Date:	08/23/02
Analysis Date:	08/26/02

CLIENT SAMPLE ID

Project Name:	BNAS- Bldg 335 PCB C/U
Project Number:	CTO-03
Field Sample ID:	CS-1-WSW

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/kg	Results µg/kg
PCB-1016	17	U
PCB-1221	17	U
PCB-1232	17	U
PCB-1242	17	U
PCB-1248	17	U
PCB-1254	17	**708**
PCB-1260	17	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	98	%
Decachlorobiphenyl	116	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3545.

COMMENTS: Results are expressed on a dry weight basis.

PCB Report

Authorized signature Melissa A Hall

analytics environmental laboratory LLC

PCB CONFIRMATION RESULTS

Quote#: SDG: 48137

Project No: CTO 03 Site ID: BNAS Bldg 335 PCB C/U Location: Topsham, ME

Instrument ID: F GC Columns: RTX-CLPesticidesI ID: 0.53(mm)

RTX-CLPesticidesII

Sample ID: 48137-17

COMPOUND	RESPONSE #1 (ug/kg)	RESPONSE #2 (ug/kg)	DIFFERENCE %	#	% DIFFERENCE Acceptance Limit
PCB 1254	708	711	0		40

Column to be used to flag % Difference with an asterisk

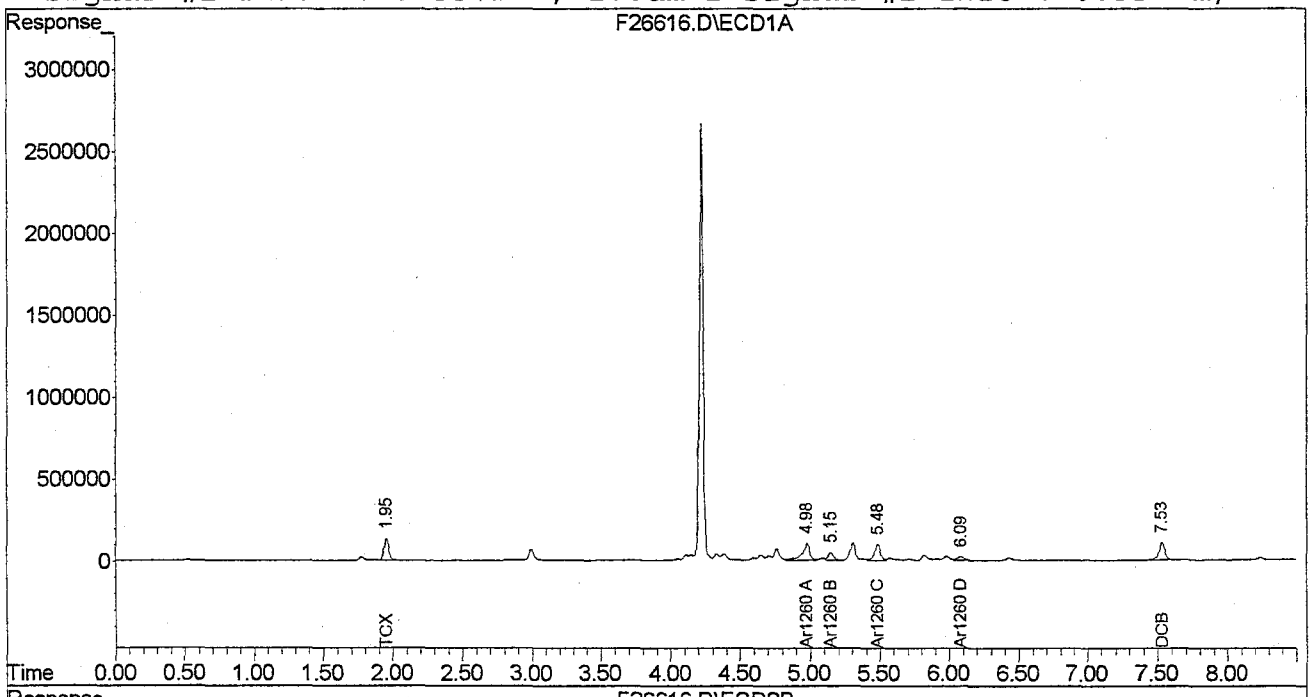
* Values outside of QC limits

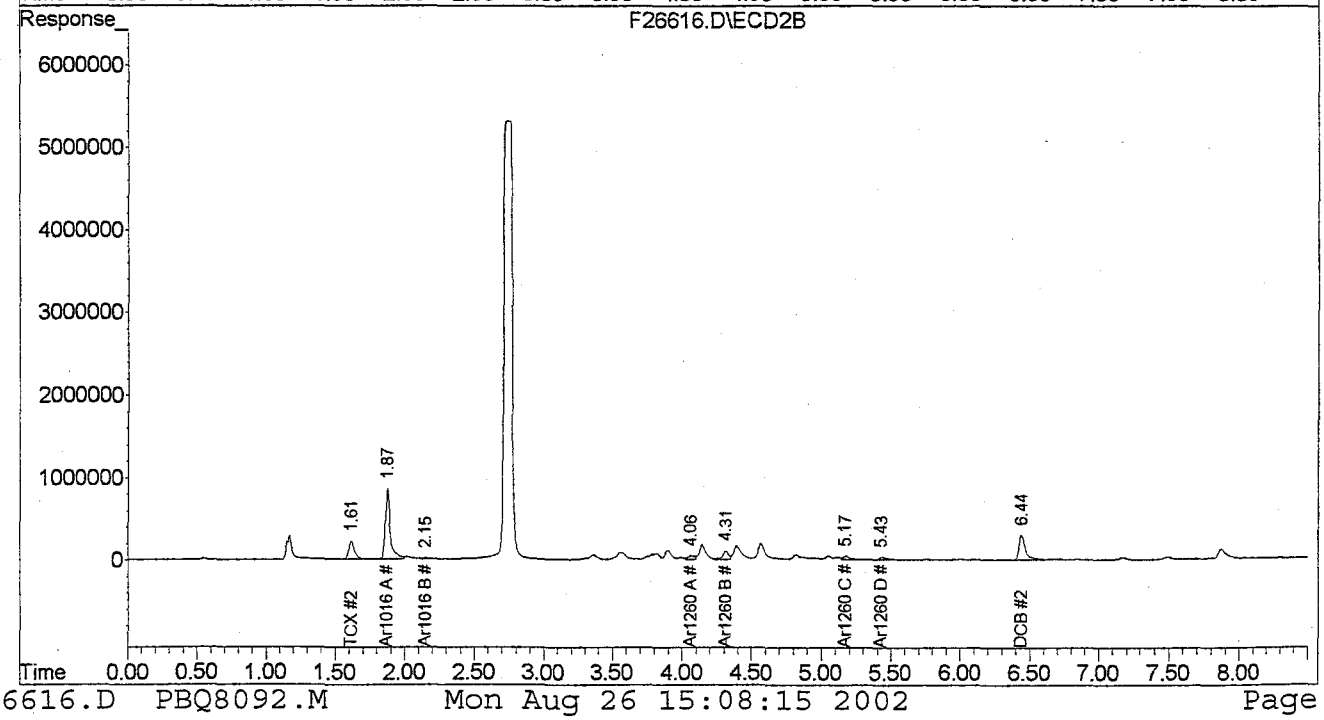
Quantitation Report (Not Reviewed)

Signal #1 : D:\HPCHEM\2\DATA\082602-F\F26616.D\ECD1A.CH Vial: 20
Signal #2 : D:\HPCHEM\2\DATA\082602-F\F26616.D\ECD2B.CH
Acq On : 26 Aug 2002 2:02 pm Operator:
Sample : 48137-17 A/C Inst : Instrume
Misc : SOIL Multiplr: 1.00
IntFile Signal #1: PCBINT.E IntFile Signal #2: PCBINT2.E
Quant Time: Aug 26 15:08 2002 Quant Results File: PBQ8092.RES

Quant Method : D:\HPCHEM\2\METHODS\PBQ8092.M (Chemstation Integrator)
Title : Aroclor 1016/1260
Last Update : Mon Aug 26 10:29:15 2002
Response via : Multiple Level Calibration
DataAcq Meth : PCB.M

Volume Inj. : 3 ul
Signal #1 Phase : DB-1701 Widebore Signal #2 Phase: DB-5 Widebore
Signal #1 Info : 0.53 mm , 1.0um f Signal #2 Info : 0.53 mm, 1.5um fil





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August 27, 2002

SAMPLE DATA

Lab Sample ID:	48137-18
Matrix:	Solid
Percent Solid:	91
Dilution Factor:	1.1
Collection Date:	08/23/02
Lab Receipt Date:	08/23/02
Extraction Date:	08/23/02
Analysis Date:	08/26/02

CLIENT SAMPLE ID

Project Name:	BNAS- Bldg 335 PCB C/U
Project Number:	CTO-03
Field Sample ID:	CS-1-NSW

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/kg	Results µg/kg
PCB-1016	17	U
PCB-1221	17	U
PCB-1232	17	U
PCB-1242	17	U
PCB-1248	17	U
PCB-1254	17	**389**
PCB-1260	17	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	89	%
Decachlorobiphenyl	116	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3545.

COMMENTS: Results are expressed on a dry weight basis.

PCB Report

Authorized signature Melissa A. Tulli

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PCB CONFIRMATION RESULTS

Quote#:

SDG: 48137

Project No: CTO 03

Site ID: BNAS Bldg 335 PCB C/U

Location: Topsham, ME

Instrument ID: F

GC Columns: RTX-CLPesticidesI
RTX-CLPesticidesII

ID: 0.53(mm)

Sample ID: 48137-18

COMPOUND	RESPONSE #1 (ug/kg)	RESPONSE #2 (ug/kg)	DIFFERENCE %	#	% DIFFERENCE Acceptance Limit
PCB 1254	389	409	5		40

Column to be used to flag % Difference with an asterisk

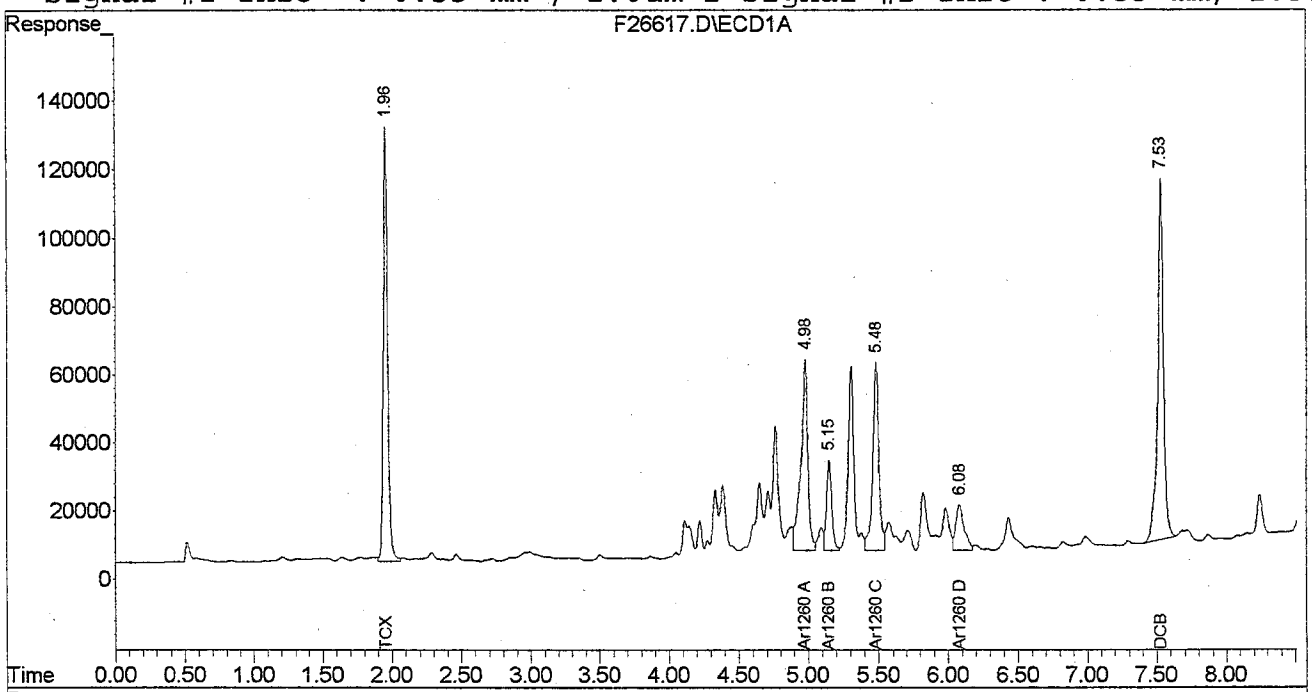
* Values outside of QC limits

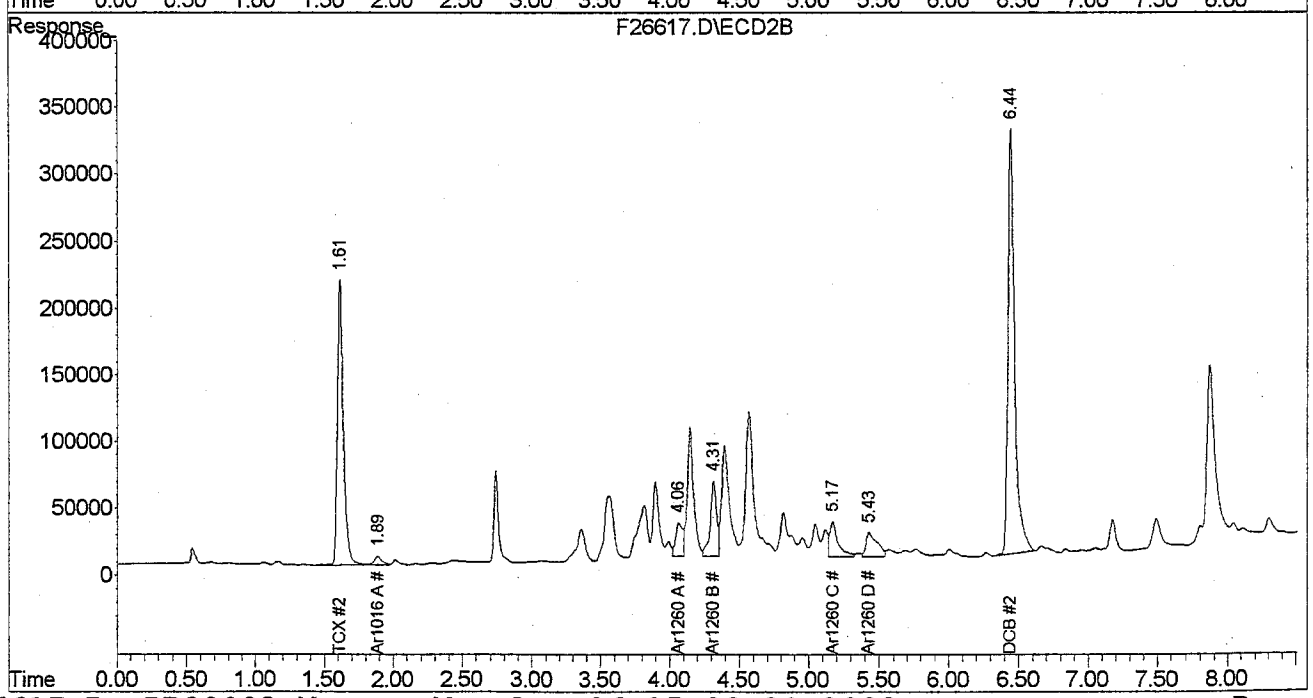
Quantitation Report (Not Reviewed)

Signal #1 : D:\HPCHEM\2\DATA\082602-F\F26617.D\ECD1A.CH Vial: 21
Signal #2 : D:\HPCHEM\2\DATA\082602-F\F26617.D\ECD2B.CH
Acq On : 26 Aug 2002 2:14 pm Operator:
Sample : 48137-18 A/C Inst : Instrume
Misc : SOIL Multiplr: 1.00
IntFile Signal #1: PCBINT.E IntFile Signal #2: PCBINT2.E
Quant Time: Aug 26 15:08 2002 Quant Results File: PBQ8092.RES

Quant Method : D:\HPCHEM\2\METHODS\PBQ8092.M (Chemstation Integrator)
Title : Aroclor 1016/1260
Last Update : Mon Aug 26 10:29:15 2002
Response via : Multiple Level Calibration
DataAcq Meth : PCB.M

Volume Inj. : 3 ul
Signal #1 Phase : DB-1701 Widebore Signal #2 Phase: DB-5 Widebore
Signal #1 Info : 0.53 mm , 1.0um f Signal #2 Info : 0.53 mm, 1.5um fil





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Mr. Josh Holden
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August 27, 2002

SAMPLE DATA

Lab Sample ID:	48137-19
Matrix:	Solid
Percent Solid:	89
Dilution Factor:	22
Collection Date:	08/23/02
Lab Receipt Date:	08/23/02
Extraction Date:	08/23/02
Analysis Date:	08/26/02

CLIENT SAMPLE ID

Project Name:	BNAS- Bldg 335 PCB C/U
Project Number:	CTO-03
Field Sample ID:	CS-2-NSW

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/kg	Results µg/kg
PCB-1016	330	U
PCB-1221	330	U
PCB-1232	330	U
PCB-1242	330	U
PCB-1248	330	U
PCB-1254	330	**5880**
PCB-1260	330	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	*	%
Decachlorobiphenyl	*	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3545.

COMMENTS: Results are expressed on a dry weight basis. * The surrogates were diluted out.

PCB Report

Authorized signature Melissa A Kelli

analytics environmental laboratory LLC

PCB CONFIRMATION RESULTS

Quote#: SDG: 48137

Project No: CTO 03 Site ID: BNAS Bldg 335 PCB C/U Location: Topsham, ME

Instrument ID: F GC Columns: RTX-CLPesticidesI ID: 0.53(mm)

RTX-CLPesticidesII

Sample ID: 48137-19

COMPOUND	RESPONSE #1 (ug/kg)	RESPONSE #2 (ug/kg)	DIFFERENCE %	#	% DIFFERENCE Acceptance Limit
PCB 1254	5880	6580	11		40

Column to be used to flag % Difference with an asterisk

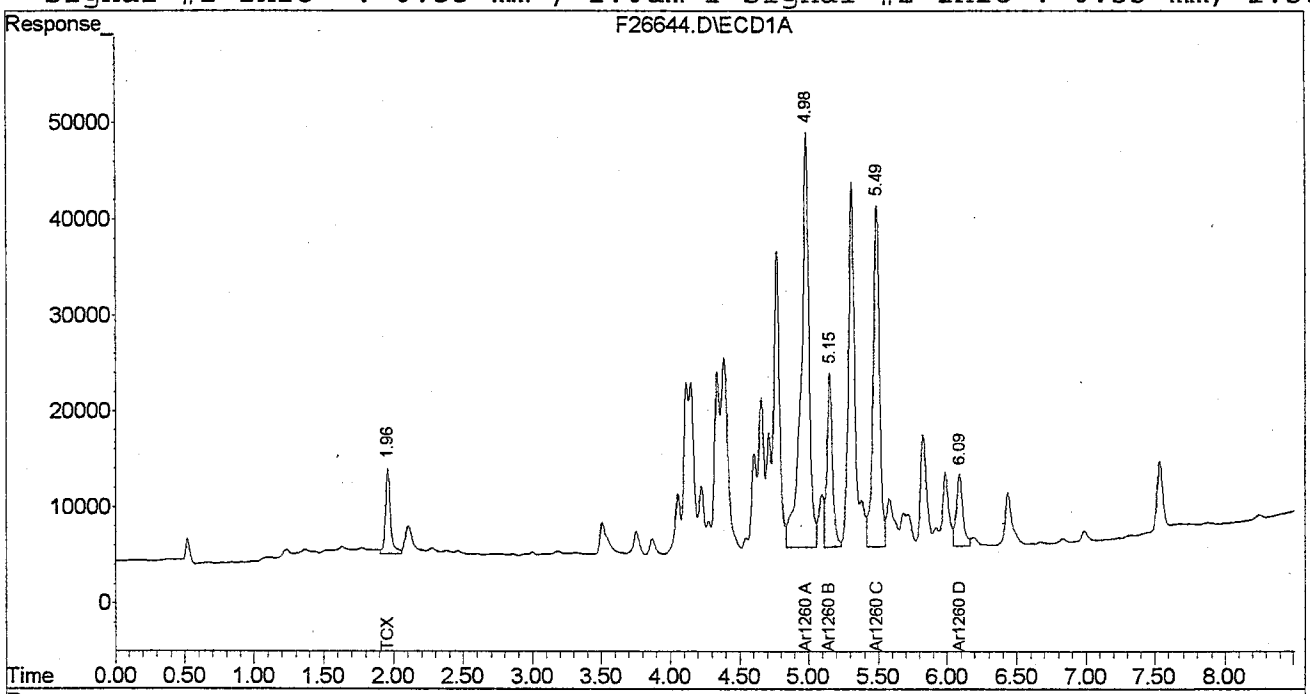
* Values outside of QC limits

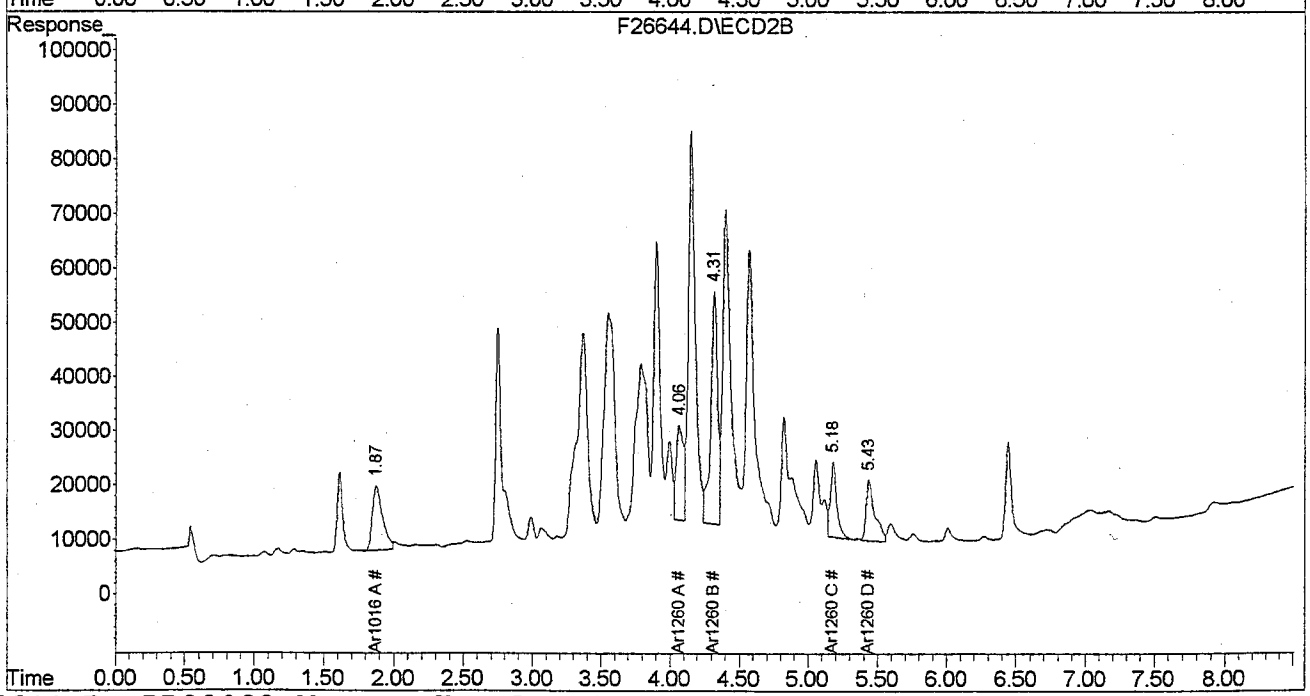
Quantitation Report (Not Reviewed)

Signal #1 : D:\HPCHEM\2\DATA\082602-F\F26644.D\ECD1A.CH Vial: 47
Signal #2 : D:\HPCHEM\2\DATA\082602-F\F26644.D\ECD2B.CH
Acq On : 26 Aug 2002 7:24 pm Operator:
Sample : 48137-19 1:20 A/C Inst : Instrume
Misc : SOIL Multiplr: 1.00
IntFile Signal #1: PCBINT.E IntFile Signal #2: PCBINT2.E
Quant Time: Aug 27 7:59 2002 Quant Results File: PBQ8092.RES

Quant Method : D:\HPCHEM\2\METHODS\PBQ8092.M (Chemstation Integrator)
Title : Aroclor 1016/1260
Last Update : Mon Aug 26 10:29:15 2002
Response via : Multiple Level Calibration
DataAcq Meth : PCB.M

Volume Inj. : 3 ul
Signal #1 Phase : DB-1701 Widebore Signal #2 Phase: DB-5 Widebore
Signal #1 Info : 0.53 mm , 1.0um f Signal #2 Info : 0.53 mm, 1.5um fil





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Mr. Josh Holden
Foster Wheeler Environmental Corp.
P.O. Box 660
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August 27, 2002

SAMPLE DATA

Lab Sample ID:	48137-20
Matrix:	Solid
Percent Solid:	91
Dilution Factor:	1090
Collection Date:	08/23/02
Lab Receipt Date:	08/23/02
Extraction Date:	08/26/02
Analysis Date:	08/27/02

CLIENT SAMPLE ID

Project Name:	BNAS- Bldg 335 PCB C/U
Project Number:	CTO-03
Field Sample ID:	CS-3-NSW

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/kg	Results µg/kg
PCB-1016	16400	U
PCB-1221	16400	U
PCB-1232	16400	U
PCB-1242	16400	U
PCB-1248	16400	U
PCB-1254	16400	**180000**
PCB-1260	16400	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	*	%
Decachlorobiphenyl	*	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3545.

COMMENTS: Results are expressed on a dry weight basis. * The surrogates were diluted out.

PCB Report

Authorized signature Melissa A. Kelli

analytics environmental laboratory LLC

PCB CONFIRMATION RESULTS

Quote#:

SDG: 48137

Project No: CTO 03

Site ID: BNAS Bldg 335 PCB C/U

Location: Topsham, ME

Instrument ID: F

GC Columns: RTX-CLPesticidesI
RTX-CLPesticidesII

ID: 0.53(mm)

Sample ID: 48137-20

COMPOUND	RESPONSE #1 (ug/kg)	RESPONSE #2 (ug/kg)	DIFFERENCE %	#	% DIFFERENCE Acceptance Limit
PCB 1254	180000	212000	16		40

Column to be used to flag % Difference with an asterisk

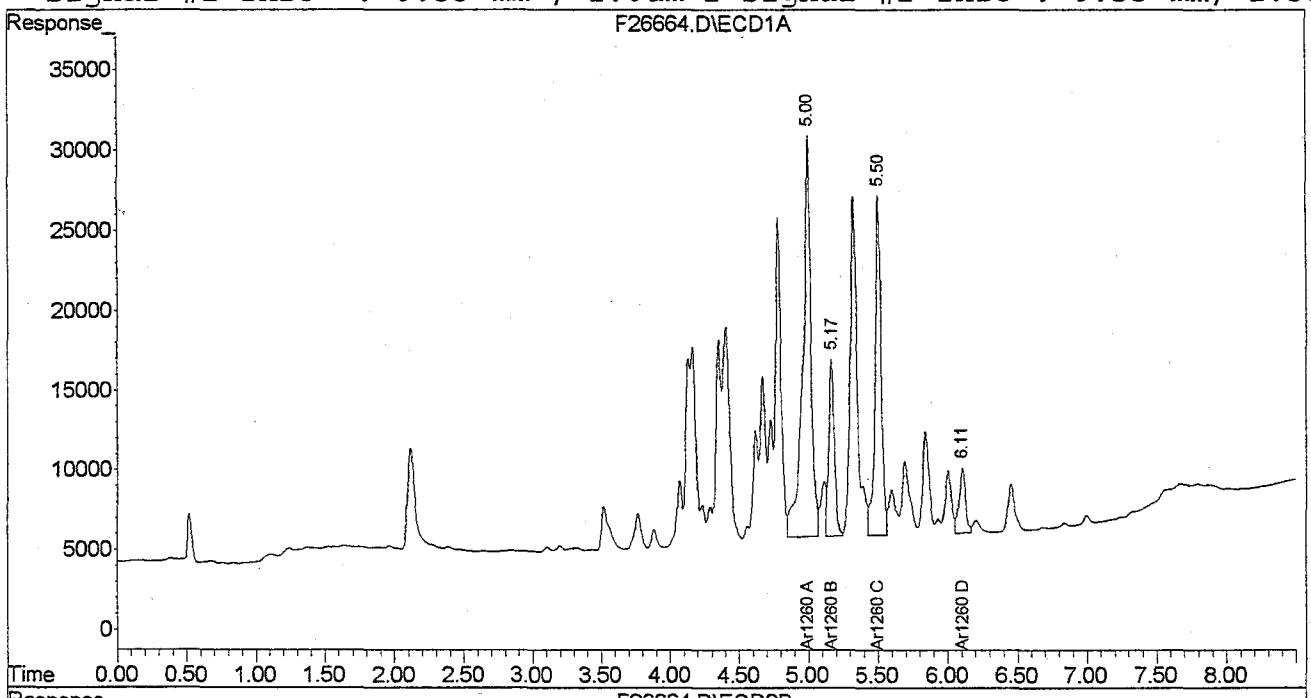
* Values outside of QC limits

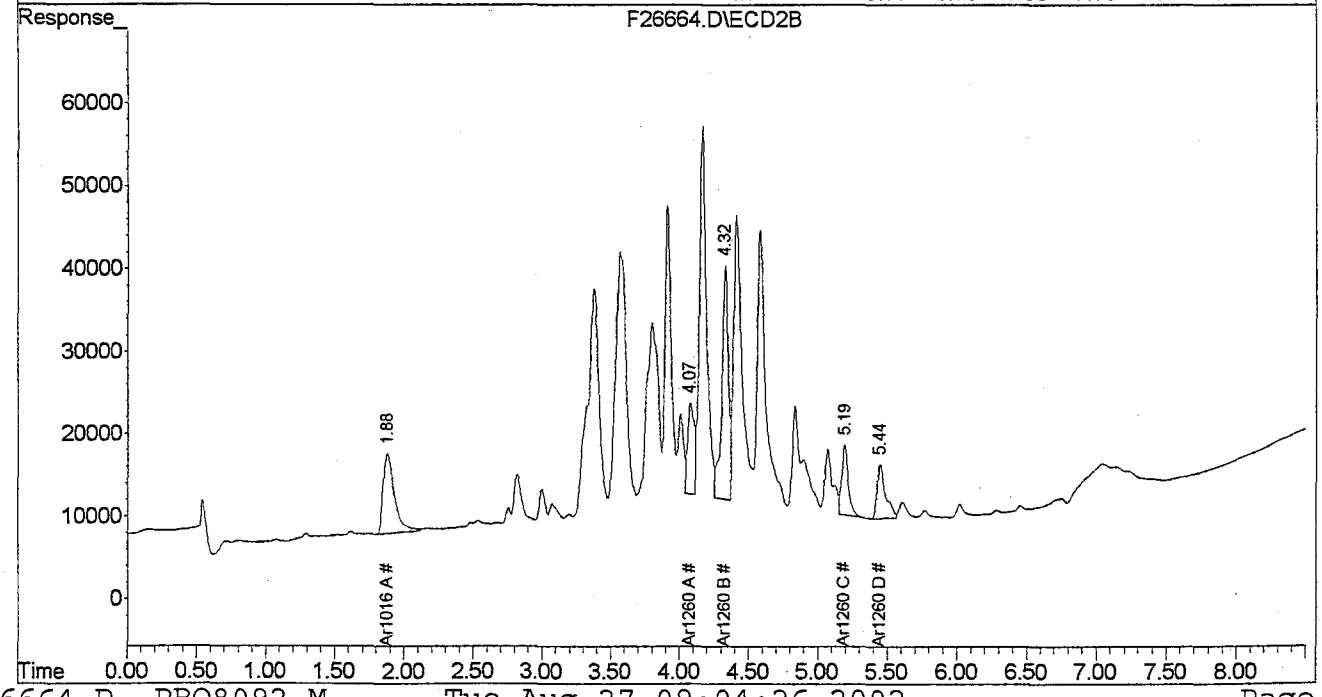
Quantitation Report (Not Reviewed)

Signal #1 : D:\HPCHEM\2\DATA\082602-F\F26664.D\ECD1A.CH Vial: 63
Signal #2 : D:\HPCHEM\2\DATA\082602-F\F26664.D\ECD2B.CH
Acq On : 27 Aug 2002 8:53 am Operator:
Sample : 48137-20 1:1000 Inst : Instrume
Misc : SOIL Multiplr: 1.00
IntFile Signal #1: PCBINT.E IntFile Signal #2: PCBINT2.E
Quant Time: Aug 27 9:04 2002 Quant Results File: PBQ8092.RES

Quant Method : D:\HPCHEM\2\METHODS\PBQ8092.M (Chemstation Integrator)
Title : Aroclor 1016/1260
Last Update : Mon Aug 26 10:29:15 2002
Response via : Multiple Level Calibration
DataAcq Meth : PCB.M

Volume Inj. : 3 ul
Signal #1 Phase : DB-1701 Widebore Signal #2 Phase: DB-5 Widebore
Signal #1 Info : 0.53 mm , 1.0um f Signal #2 Info : 0.53 mm, 1.5um fil





analytics environmental laboratory LLC

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Mr. Josh Holden
Foster Wheeler Environmental Corp.
P.O. Box 660
Kittery ME 03904

August 27, 2002

SAMPLE DATA

Lab Sample ID:	48137-21
Matrix:	Solid
Percent Solid:	84
Dilution Factor:	1.1
Collection Date:	08/23/02
Lab Receipt Date:	08/23/02
Extraction Date:	08/26/02
Analysis Date:	08/26/02

CLIENT SAMPLE ID

Project Name:	BNAS- Bldg 335 PCB C/U
Project Number:	CTO-03
Field Sample ID:	CS-3-ESW

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/kg	Results µg/kg
PCB-1016	17	U
PCB-1221	17	U
PCB-1232	17	U
PCB-1242	17	U
PCB-1248	17	U
PCB-1254	17	435
PCB-1260	17	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	95	%
Decachlorobiphenyl	95	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3545.

COMMENTS: Results are expressed on a dry weight basis.

PCB Report

Authorized signature Melissa A Valli

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PCB CONFIRMATION RESULTS

Quote#:

SDG: 48137

Project No: CTO 03

Site ID: BNAS Bldg 335 PCB C/U

Location: Topsham, ME

Instrument ID: F

GC Columns: RTX-CLPesticidesI
RTX-CLPesticidesII

ID: 0.53(mm)

Sample ID: 48137-21

COMPOUND	RESPONSE #1 (ug/kg)	RESPONSE #2 (ug/kg)	DIFFERENCE %	#	% DIFFERENCE Acceptance Limit
PCB 1254	435	456	5		40

Column to be used to flag % Difference with an asterisk

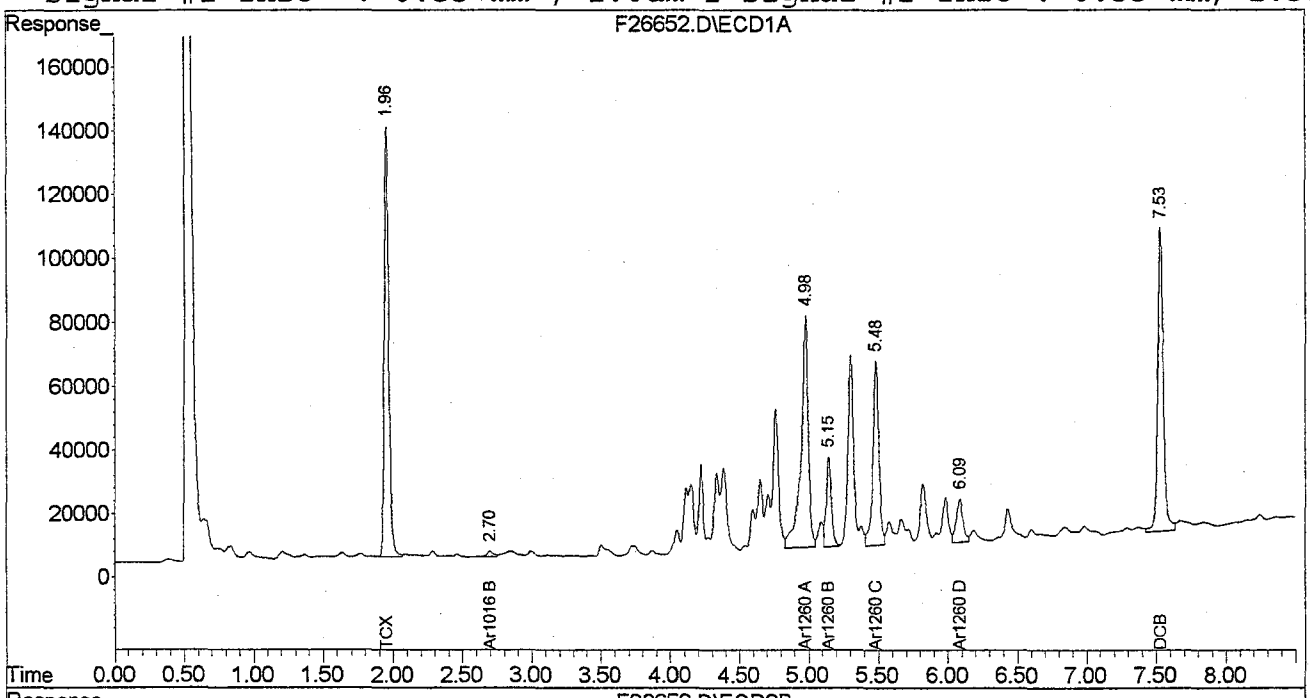
* Values outside of QC limits

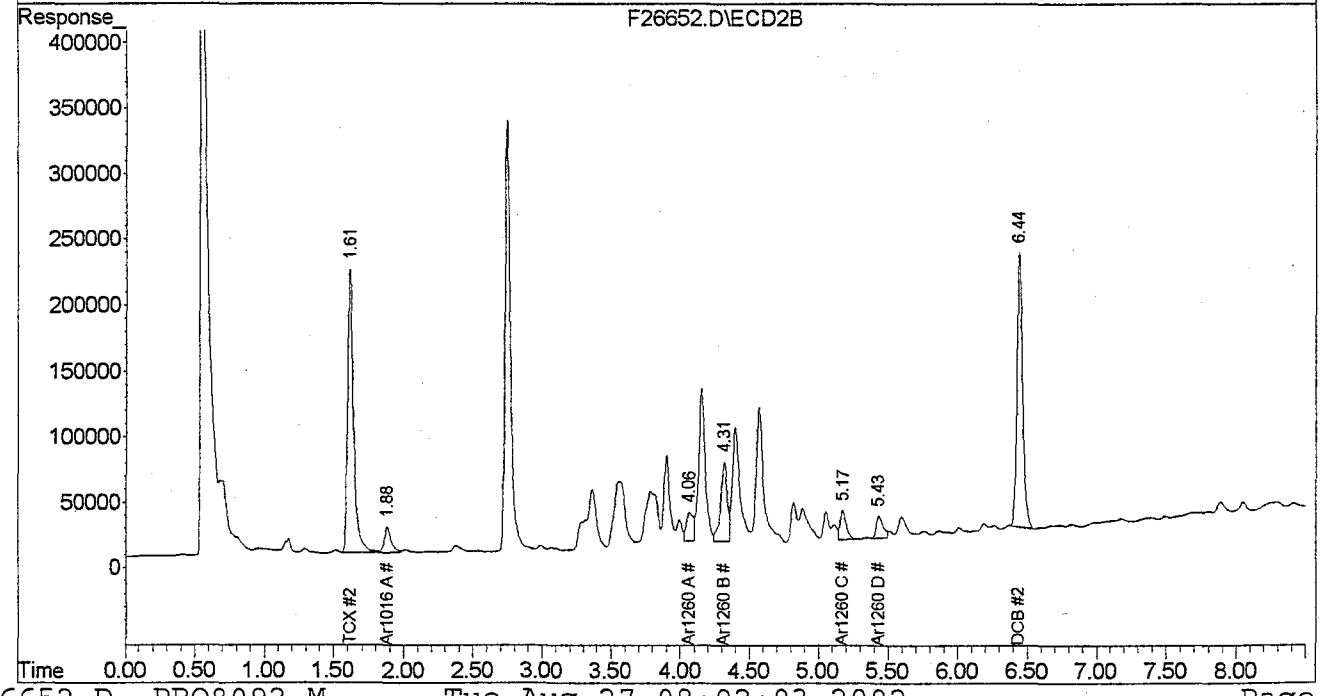
Quantitation Report (Not Reviewed)

Signal #1 : D:\HPCHEM\2\DATA\082602-F\F26652.D\ECD1A.CH Vial: 53
Signal #2 : D:\HPCHEM\2\DATA\082602-F\F26652.D\ECD2B.CH
Acq On : 26 Aug 2002 8:57 pm Operator:
Sample : 48137-21 Inst : Instrume
Misc : SOIL Multiplr: 1.00
IntFile Signal #1: PCBINT.E IntFile Signal #2: PCBINT2.E
Quant Time: Aug 27 8:01 2002 Quant Results File: PBQ8092.RES

Quant Method : D:\HPCHEM\2\METHODS\PBQ8092.M (Chemstation Integrator)
Title : Aroclor 1016/1260
Last Update : Mon Aug 26 10:29:15 2002
Response via : Multiple Level Calibration
DataAcq Meth : PCB.M

Volume Inj. : 3 ul
Signal #1 Phase : DB-1701 Widebore Signal #2 Phase: DB-5 Widebore
Signal #1 Info : 0.53 mm , 1.0um f Signal #2 Info : 0.53 mm, 1.5um fil





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August 27, 2002

SAMPLE DATA

Lab Sample ID:	48137-22
Matrix:	Solid
Percent Solid:	92
Dilution Factor:	11
Collection Date:	08/23/02
Lab Receipt Date:	08/23/02
Extraction Date:	08/26/02
Analysis Date:	08/27/02

CLIENT SAMPLE ID

Project Name:	BNAS- Bldg 335 PCB C/U
Project Number:	CTO-03
Field Sample ID:	CS-6-ESW

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/kg	Results µg/kg
PCB-1016	170	U
PCB-1221	170	U
PCB-1232	170	U
PCB-1242	170	U
PCB-1248	170	U
PCB-1254	170	**2190**
PCB-1260	170	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	*	%
Decachlorobiphenyl	*	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3545.

COMMENTS: Results are expressed on a dry weight basis. * The surrogates were diluted out.

PCB Report

Authorized signature Melissa A Galli

analytics environmental laboratory LLC

PCB CONFIRMATION RESULTS

Quote#: SDG: 48137

Project No: CTO 03 Site ID: BNAS Bldg 335 PCB C/U Location: Topsham, ME

Instrument ID: F GC Columns: RTX-CLPesticidesI ID: 0.53(mm)

RTX-CLPesticidesII

Sample ID: 48137-22

COMPOUND	RESPONSE #1 (ug/kg)	RESPONSE #2 (ug/kg)	DIFFERENCE %	#	% DIFFERENCE Acceptance Limit
PCB 1254	2190	2440	11		40

Column to be used to flag % Difference with an asterisk

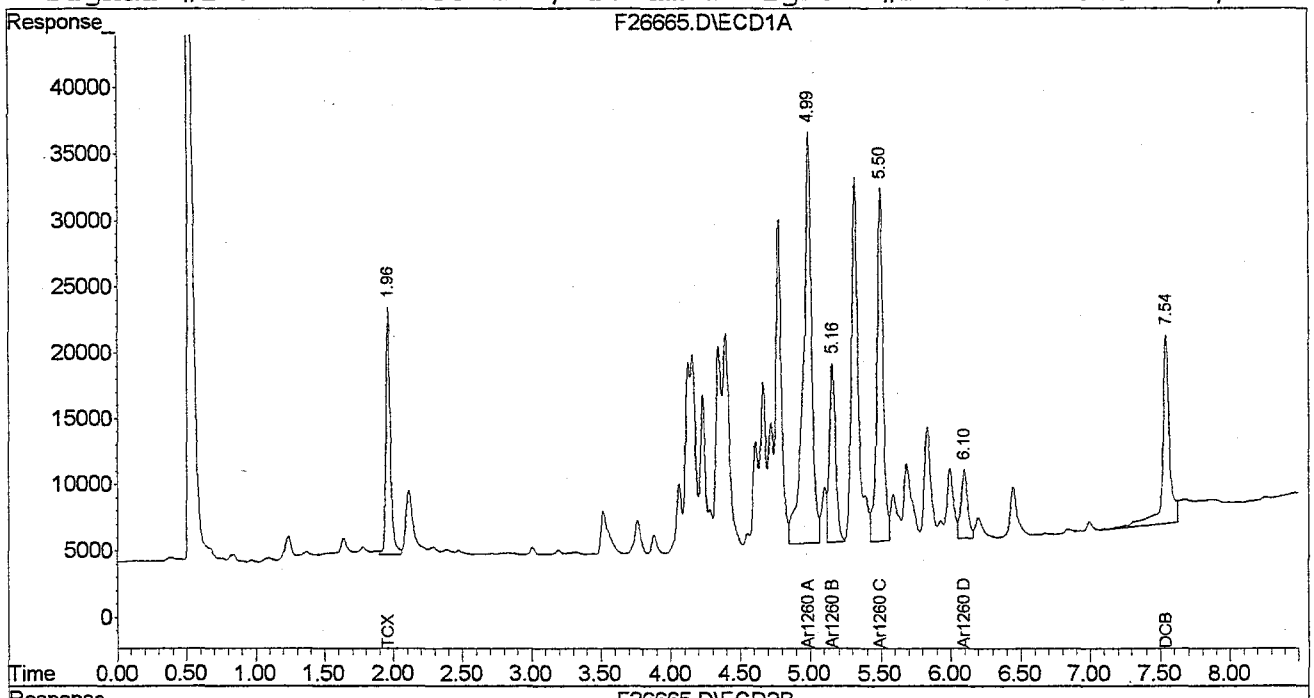
* Values outside of QC limits

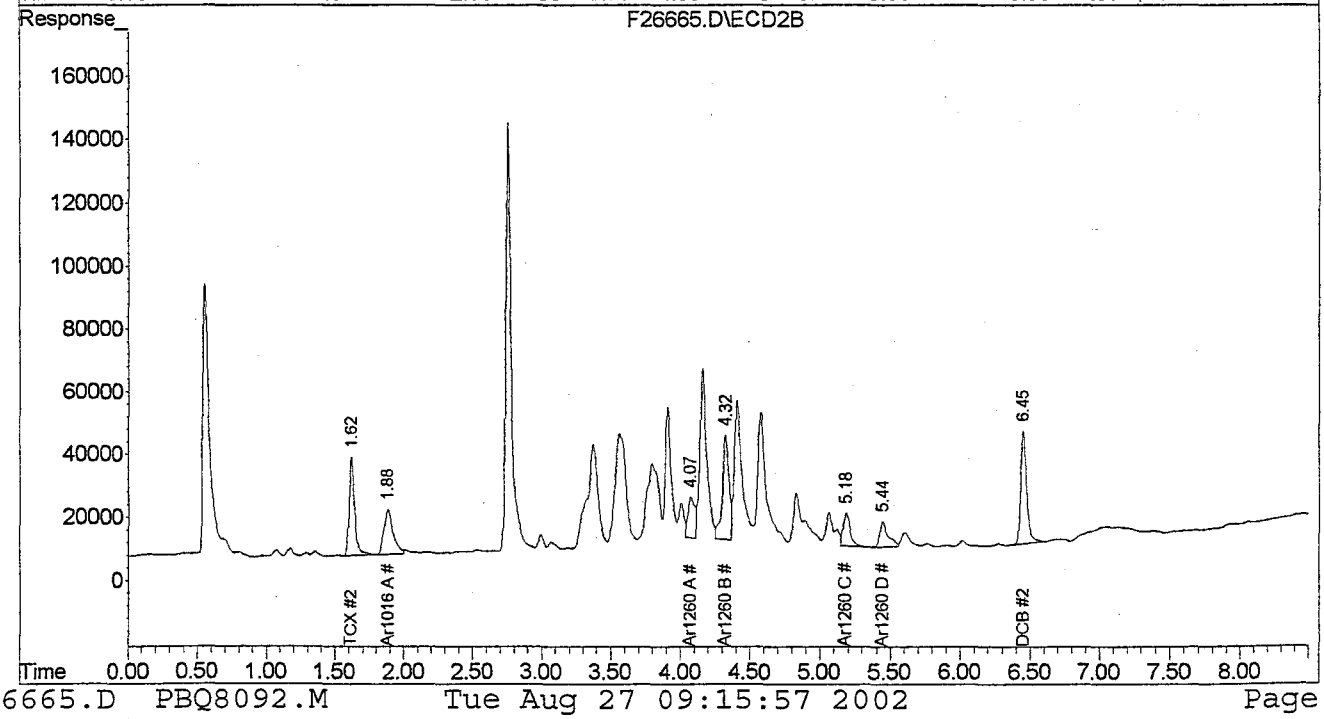
Quantitation Report (Not Reviewed)

Signal #1 : D:\HPCHEM\2\DATA\082602-F\F26665.D\ECD1A.CH Vial: 64
Signal #2 : D:\HPCHEM\2\DATA\082602-F\F26665.D\ECD2B.CH
Acq On : 27 Aug 2002 9:05 am Operator:
Sample : 48137-22 1:10 Inst : Instrume
Misc : SOIL Multiplr: 1.00
IntFile Signal #1: PCBINT.E IntFile Signal #2: PCBINT2.E
Quant Time: Aug 27 9:15 2002 Quant Results File: PBQ8092.RES

Quant Method : D:\HPCHEM\2\METHODS\PBQ8092.M (Chemstation Integrator)
Title : Aroclor 1016/1260
Last Update : Mon Aug 26 10:29:15 2002
Response via : Multiple Level Calibration
DataAcq Meth : PCB.M

Volume Inj. : 3 ul
Signal #1 Phase : DB-1701 Widebore Signal #2 Phase: DB-5 Widebore
Signal #1 Info : 0.53 mm , 1.0um f Signal #2 Info : 0.53 mm, 1.5um fil





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August 27, 2002

SAMPLE DATA

Lab Sample ID:	48137-23
Matrix:	Solid
Percent Solid:	91
Dilution Factor:	1.1
Collection Date:	08/23/02
Lab Receipt Date:	08/23/02
Extraction Date:	08/26/02
Analysis Date:	08/26/02

CLIENT SAMPLE ID

Project Name:	BNAS- Bldg 335 PCB C/U
Project Number:	CTO-03
Field Sample ID:	CS-7-W-SW-2

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/kg	Results µg/kg
PCB-1016	17	U
PCB-1221	17	U
PCB-1232	17	U
PCB-1242	17	U
PCB-1248	17	U
PCB-1254	17	U
PCB-1260	17	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	98	%
Decachlorobiphenyl	88	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3545.

COMMENTS: Results are expressed on a dry weight basis.

PCB Report

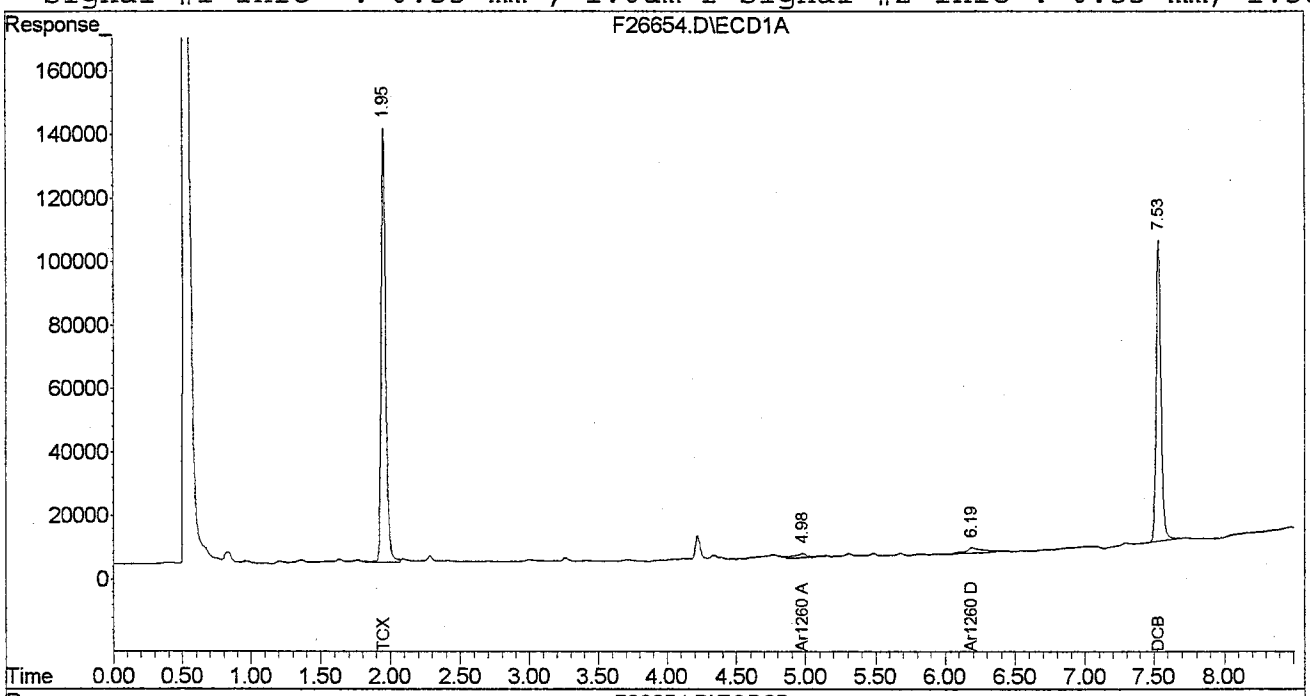
Authorized signature Melissa Arkelli

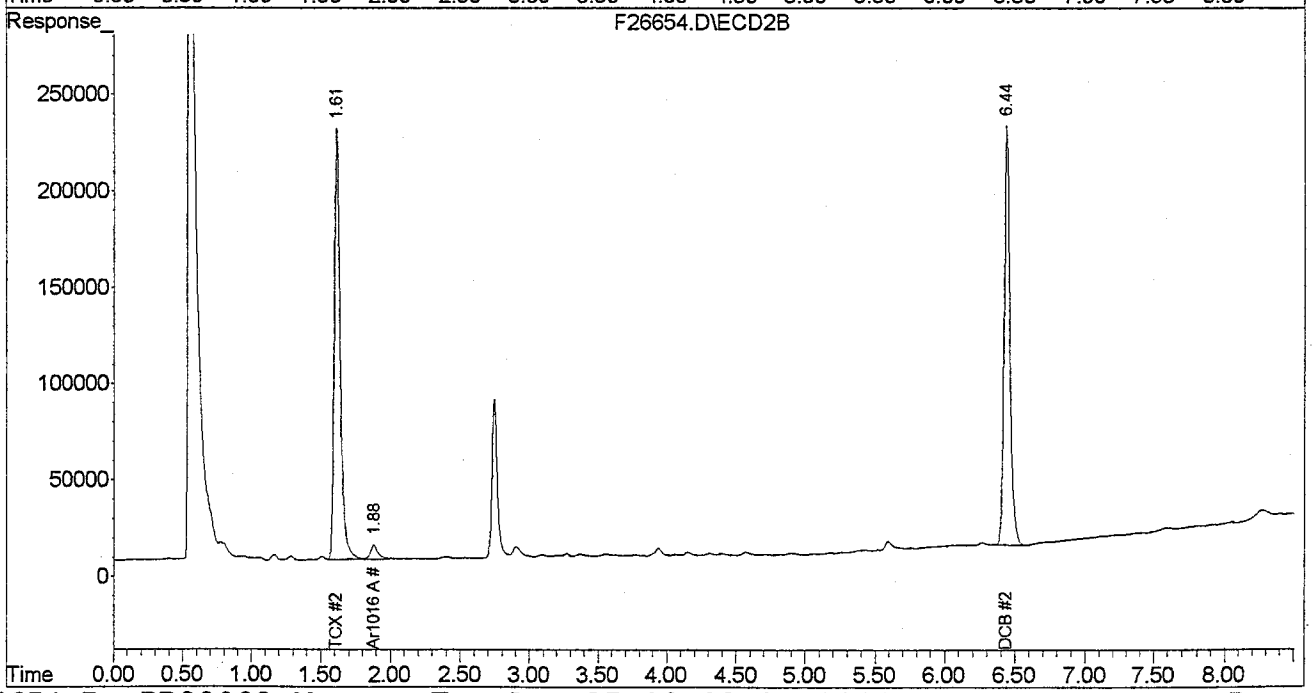
Quantitation Report (Not Reviewed)

Signal #1 : D:\HPCHEM\2\DATA\082602-F\F26654.D\ECD1A.CH Vial: 55
Signal #2 : D:\HPCHEM\2\DATA\082602-F\F26654.D\ECD2B.CH
Acq On : 26 Aug 2002 9:20 pm Operator:
Sample : 48137-23 Inst : Instrume
Misc : SOIL Multiplr: 1.00
IntFile Signal #1: PCBINT.E IntFile Signal #2: PCBINT2.E
Quant Time: Aug 27 8:02 2002 Quant Results File: PBQ8092.RES

Quant Method : D:\HPCHEM\2\METHODS\PBQ8092.M (Chemstation Integrator)
Title : Aroclor 1016/1260
Last Update : Mon Aug 26 10:29:15 2002
Response via : Multiple Level Calibration
DataAcq Meth : PCB.M

Volume Inj. : 3 ul
Signal #1 Phase : DB-1701 Widebore Signal #2 Phase: DB-5 Widebore
Signal #1 Info : 0.53 mm , 1.0um f Signal #2 Info : 0.53 mm, 1.5um fil





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Mr. Josh Holden
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August 27, 2002

SAMPLE DATA

Lab Sample ID:	48137-24
Matrix:	Solid
Percent Solid:	89
Dilution Factor:	1.1
Collection Date:	08/23/02
Lab Receipt Date:	08/23/02
Extraction Date:	08/26/02
Analysis Date:	08/26/02

CLIENT SAMPLE ID

Project Name:	BNAS- Bldg 335 PCB C/U
Project Number:	CTO-03
Field Sample ID:	CS-4-W-SW-2

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/kg	Results µg/kg
PCB-1016	17	U
PCB-1221	17	U
PCB-1232	17	U
PCB-1242	17	U
PCB-1248	17	U
PCB-1254	17	44
PCB-1260	17	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	100	%
Decachlorobiphenyl	98	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

COMMENTS: Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3545. Results are expressed on a dry weight basis.

PCB Report

Authorized signature Melissa A. Galli

analytics environmental laboratory LLC

PCB CONFIRMATION RESULTS

Quote#: SDG: 48137

Project No: CTO 03 Site ID: BNAS Bldg 335 PCB C/U Location: Topsham, ME

Instrument ID: F GC Columns: RTX-CLPesticidesI ID: 0.53(mm)

RTX-CLPesticidesII

Sample ID: 48137-24

COMPOUND	RESPONSE #1 (ug/kg)	RESPONSE #2 (ug/kg)	DIFFERENCE %	#	% DIFFERENCE Acceptance Limit
PCB 1254	44	50	13		40

Column to be used to flag % Difference with an asterisk

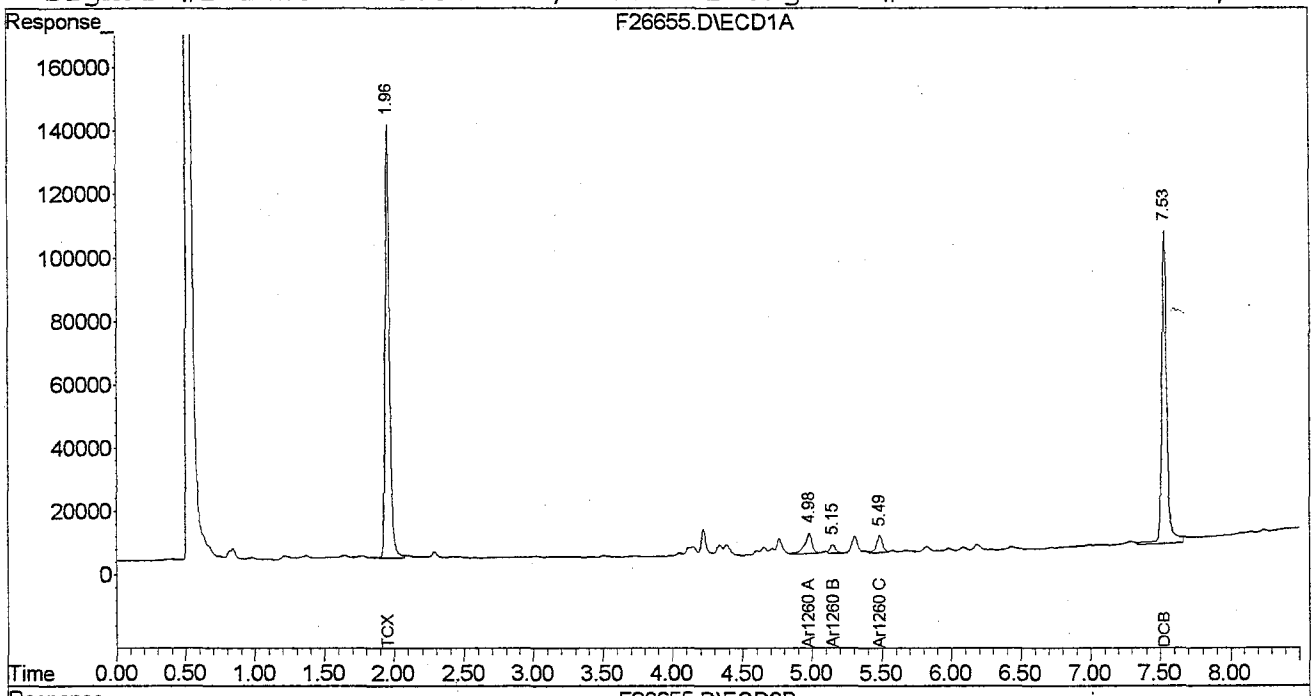
* Values outside of QC limits

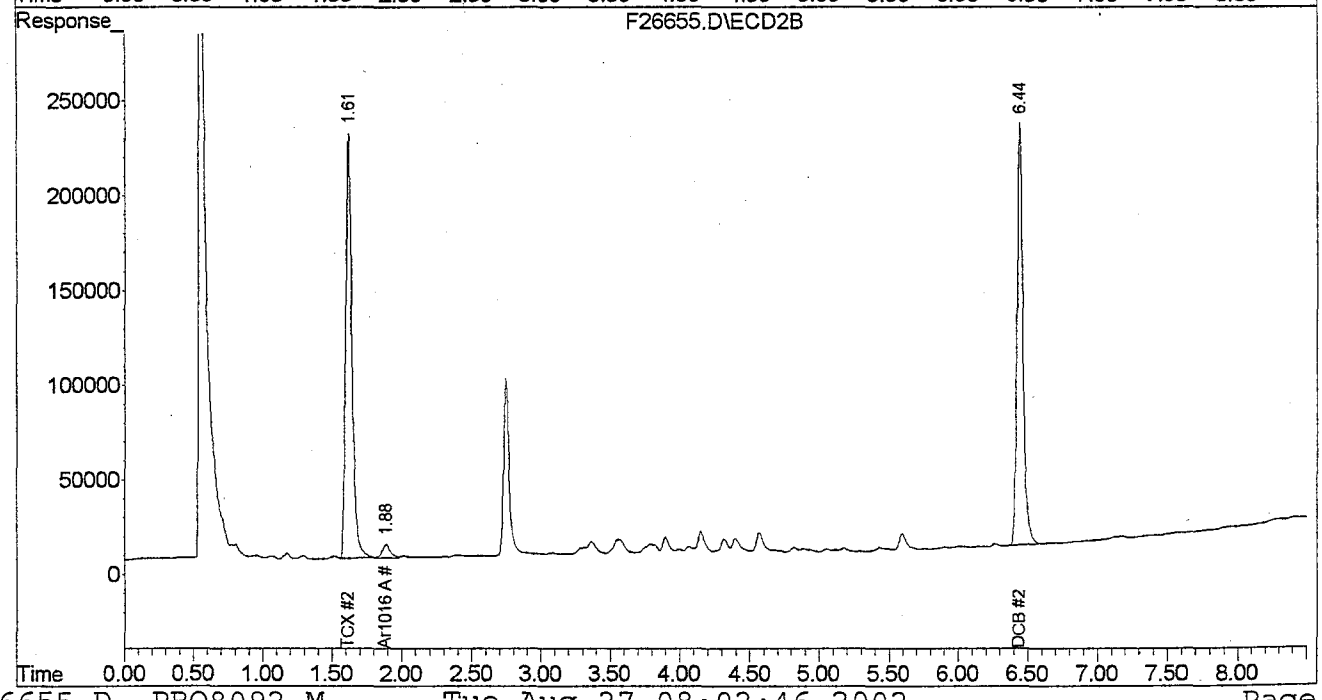
Quantitation Report (Not Reviewed)

Signal #1 : D:\HPCHEM\2\DATA\082602-F\F26655.D\ECD1A.CH Vial: 56
Signal #2 : D:\HPCHEM\2\DATA\082602-F\F26655.D\ECD2B.CH
Acq On : 26 Aug 2002 9:32 pm Operator:
Sample : 48137-24 Inst : Instrume
Misc : SOIL Multiplr: 1.00
IntFile Signal #1: PCBINT.E IntFile Signal #2: PCBINT2.E
Quant Time: Aug 27 8:02 2002 Quant Results File: PBQ8092.RES

Quant Method : D:\HPCHEM\2\METHODS\PBQ8092.M (Chemstation Integrator)
Title : Aroclor 1016/1260
Last Update : Mon Aug 26 10:29:15 2002
Response via : Multiple Level Calibration
DataAcq Meth : PCB.M

Volume Inj. : 3 ul
Signal #1 Phase : DB-1701 Widebore Signal #2 Phase: DB-5 Widebore
Signal #1 Info : 0.53 mm , 1.0um f Signal #2 Info : 0.53 mm, 1.5um fil





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Mr. Josh Holden
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August 27, 2002

SAMPLE DATA

Lab Sample ID:	48137-25
Matrix:	Solid
Percent Solid:	89
Dilution Factor:	1.1
Collection Date:	08/23/02
Lab Receipt Date:	08/23/02
Extraction Date:	08/26/02
Analysis Date:	08/26/02

CLIENT SAMPLE ID

Project Name:	BNAS- Bldg 335 PCB C/U
Project Number:	CTO-03
Field Sample ID:	CS-1-W-SW-2

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/kg	Results µg/kg
PCB-1016	17	U
PCB-1221	17	U
PCB-1232	17	U
PCB-1242	17	U
PCB-1248	17	U
PCB-1254	17	**519**
PCB-1260	17	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	92	%
Decachlorobiphenyl	99	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3545.

COMMENTS: Results are expressed on a dry weight basis.

PCB Report

Authorized signature Melissa Arbelli

analytics environmental laboratory LLC

PCB CONFIRMATION RESULTS

Quote#:

SDG: 48137

Project No: CTO 03

Site ID: BNAS Bldg 335 PCB C/U

Location: Topsham, ME

Instrument ID: F

GC Columns: RTX-CLPesticidesI
RTX-CLPesticidesII

ID: 0.53(mm)

Sample ID: 48137-25

COMPOUND	RESPONSE #1 (ug/kg)	RESPONSE #2 (ug/kg)	DIFFERENCE %	#	% DIFFERENCE Acceptance Limit
PCB 1254	519	541	4		40

Column to be used to flag % Difference with an asterisk

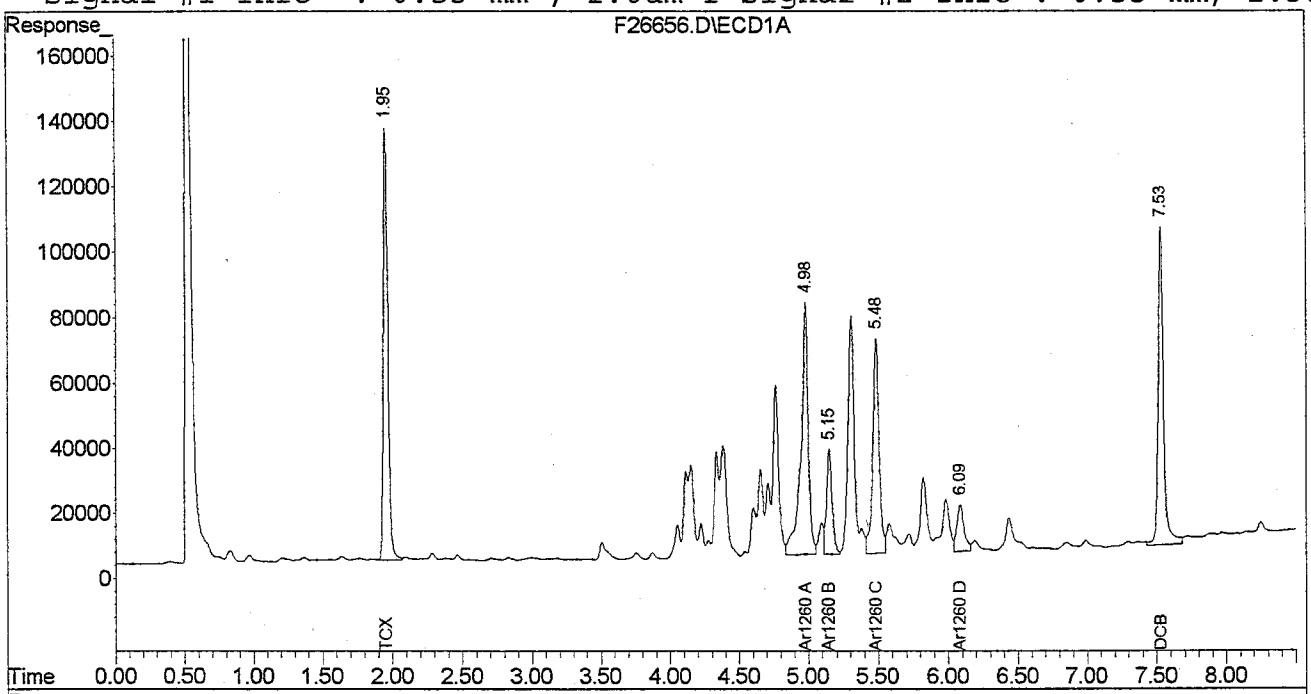
* Values outside of QC limits

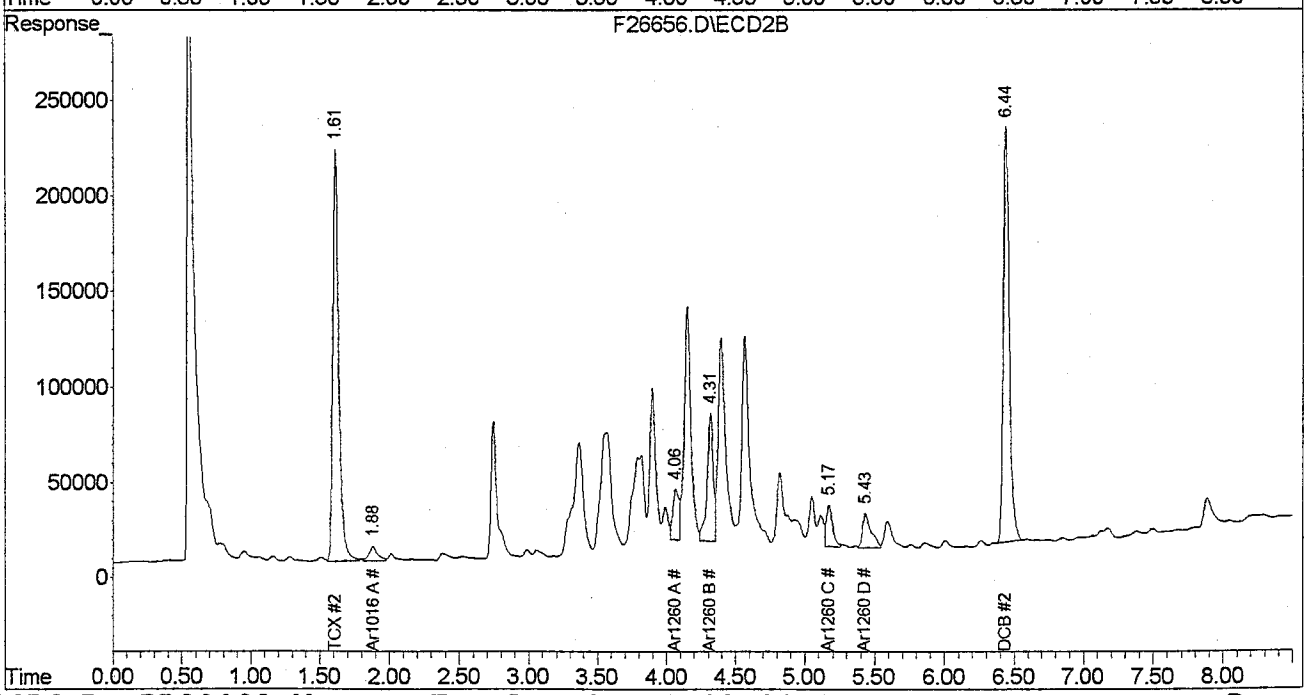
Quantitation Report (Not Reviewed)

Signal #1 : D:\HPCHEM\2\DATA\082602-F\F26656.D\ECD1A.CH Vial: 57
Signal #2 : D:\HPCHEM\2\DATA\082602-F\F26656.D\ECD2B.CH
Acq On : 26 Aug 2002 9:43 pm Operator:
Sample : 48137-25 Inst : Instrume
Misc : SOIL Multiplr: 1.00
IntFile Signal #1: PCBINT.E IntFile Signal #2: PCBINT2.E
Quant Time: Aug 27 8:02 2002 Quant Results File: PBQ8092.RES

Quant Method : D:\HPCHEM\2\METHODS\PBQ8092.M (Chemstation Integrator)
Title : Aroclor 1016/1260
Last Update : Mon Aug 26 10:29:15 2002
Response via : Multiple Level Calibration
DataAcq Meth : PCB.M

Volume Inj. : 3 ul
Signal #1 Phase : DB-1701 Widebore Signal #2 Phase: DB-5 Widebore
Signal #1 Info : 0.53 mm , 1.0um f Signal #2 Info : 0.53 mm, 1.5um fil





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August 27, 2002

SAMPLE DATA

Lab Sample ID:	48137-26
Matrix:	Solid
Percent Solid:	89
Dilution Factor:	1.1
Collection Date:	08/23/02
Lab Receipt Date:	08/23/02
Extraction Date:	08/26/02
Analysis Date:	08/26/02

CLIENT SAMPLE ID

Project Name:	BNAS- Bldg 335 PCB C/U
Project Number:	CTO-03
Field Sample ID:	CS-1-N-SW-2

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/kg	Results µg/kg
PCB-1016	17	U
PCB-1221	17	U
PCB-1232	17	U
PCB-1242	17	U
PCB-1248	17	U
PCB-1254	17	**40**
PCB-1260	17	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	97	%
Decachlorobiphenyl	97	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3545.

COMMENTS: Results are expressed on a dry weight basis.

PCB Report

Authorized signature Melissa Ardelli

analytics environmental laboratory LLC

PCB CONFIRMATION RESULTS

Quote#:

SDG: 48137

Project No: CTO 03

Site ID: BNAS Bldg 335 PCB C/U

Location: Topsham, ME

Instrument ID: F

GC Columns: RTX-CLPesticidesI
RTX-CLPesticidesII

ID: 0.53(mm)

Sample ID: 48137-26

COMPOUND	RESPONSE #1 (ug/kg)	RESPONSE #2 (ug/kg)	DIFFERENCE %	#	% DIFFERENCE Acceptance Limit
PCB 1254	40	42	5		40

Column to be used to flag % Difference with an asterisk

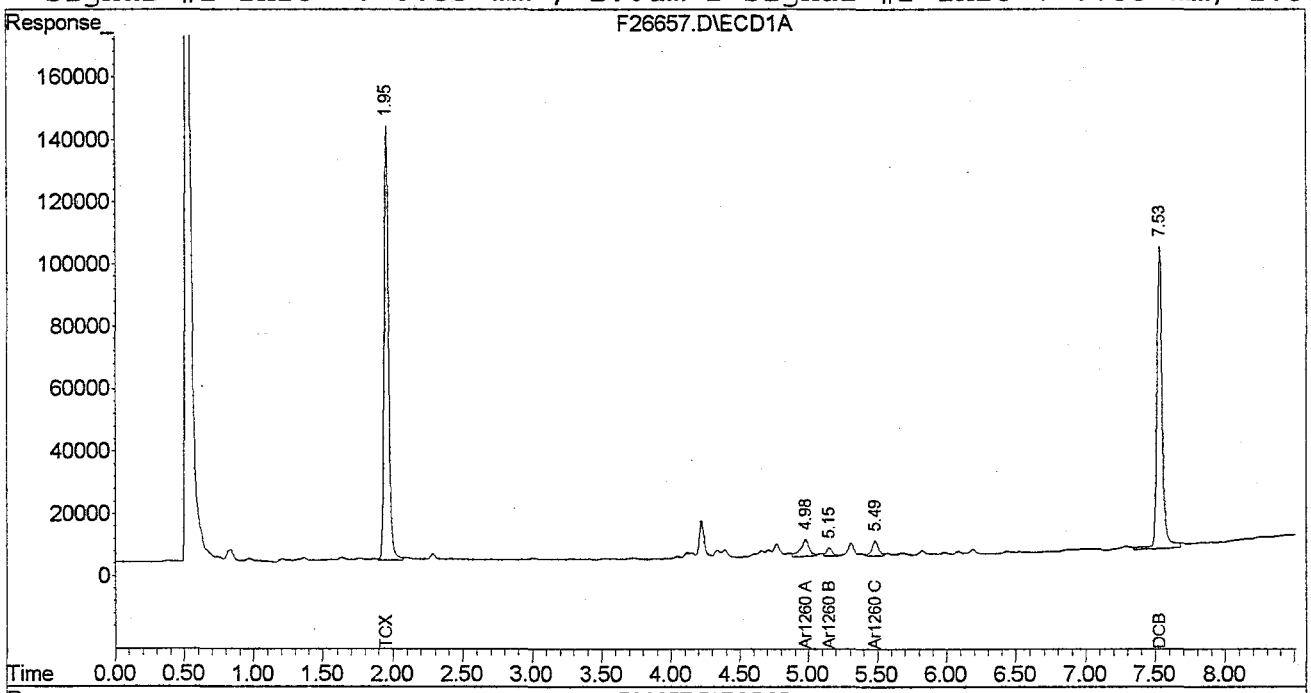
* Values outside of QC limits

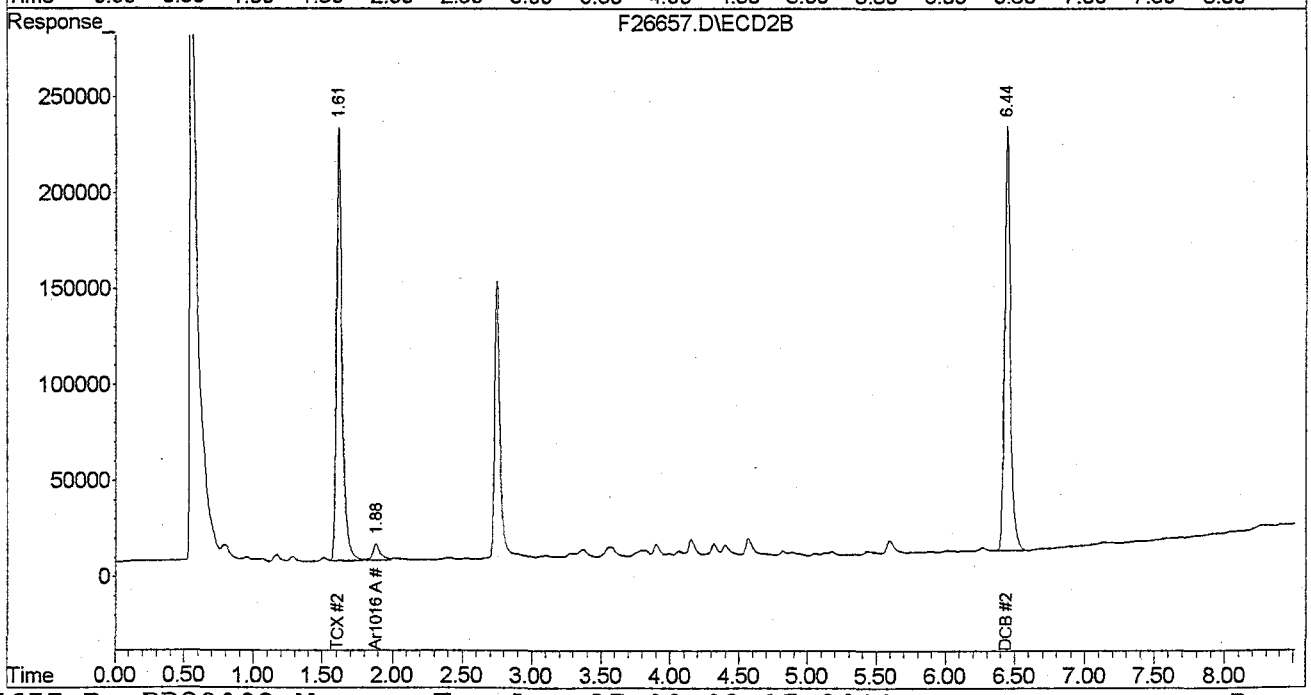
Quantitation Report (Not Reviewed)

Signal #1 : D:\HPCHEM\2\DATA\082602-F\F26657.D\ECD1A.CH Vial: 58
Signal #2 : D:\HPCHEM\2\DATA\082602-F\F26657.D\ECD2B.CH
Acq On : 26 Aug 2002 9:55 pm Operator:
Sample : 48137-26 Inst : Instrume
Misc : SOIL Multiplr: 1.00
IntFile Signal #1: PCBINT.E IntFile Signal #2: PCBINT2.E
Quant Time: Aug 27 8:03 2002 Quant Results File: PBQ8092.RES

Quant Method : D:\HPCHEM\2\METHODS\PBQ8092.M (Chemstation Integrator)
Title : Aroclor 1016/1260
Last Update : Mon Aug 26 10:29:15 2002
Response via : Multiple Level Calibration
DataAcq Meth : PCB.M

Volume Inj. : 3 ul
Signal #1 Phase : DB-1701 Widebore Signal #2 Phase: DB-5 Widebore
Signal #1 Info : 0.53 mm , 1.0um f Signal #2 Info : 0.53 mm, 1.5um fil





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Mr. Josh Holden
Foster Wheeler Environmental Corp.
P.O. Box 660
Kittery ME 03904

August 27, 2002

SAMPLE DATA

Lab Sample ID:	48137-27
Matrix:	Solid
Percent Solid:	84
Dilution Factor:	1.2
Collection Date:	08/23/02
Lab Receipt Date:	08/23/02
Extraction Date:	08/26/02
Analysis Date:	08/26/02

CLIENT SAMPLE ID

Project Name:	BNAS- Bldg 335 PCB C/U
Project Number:	CTO-03
Field Sample ID:	CS-2-N-SW-2

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/kg	Results µg/kg
PCB-1016	18	U
PCB-1221	18	U
PCB-1232	18	U
PCB-1242	18	U
PCB-1248	18	U
PCB-1254	18	**317**
PCB-1260	18	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	106	%
Decachlorobiphenyl	92	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3545.

COMMENTS: Results are expressed on a dry weight basis.

PCB Report

Authorized signature Melissa Ardelli

analytics environmental laboratory LLC

PCB CONFIRMATION RESULTS

Quote#:

SDG: 48137

Project No: CTO 03

Site ID: BNAS Bldg 335 PCB C/U

Location: Topsham, ME

Instrument ID: F

GC Columns: RTX-CLPesticidesI
RTX-CLPesticidesII

ID: 0.53(mm)

Sample ID: 48137-27

COMPOUND	RESPONSE #1 (ug/kg)	RESPONSE #2 (ug/kg)	DIFFERENCE %	#	% DIFFERENCE Acceptance Limit
PCB 1254	317	304	4		40

Column to be used to flag % Difference with an asterisk

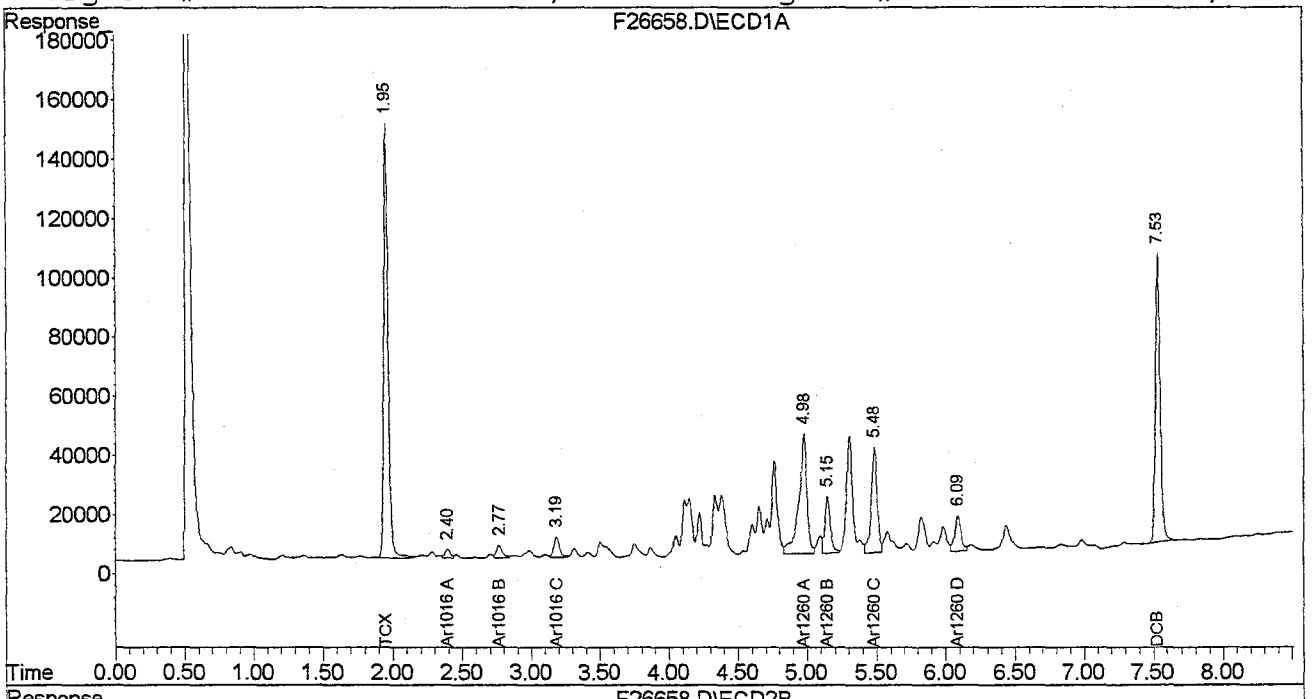
* Values outside of QC limits

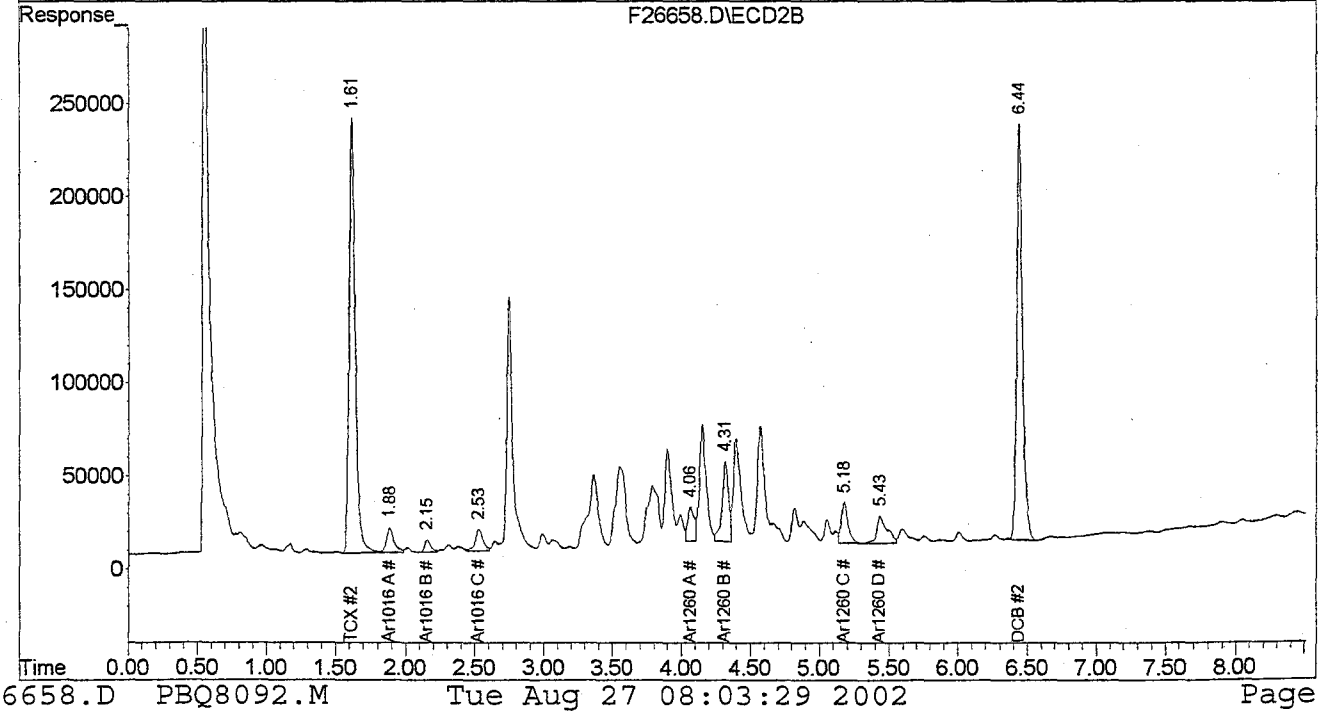
Quantitation Report (Not Reviewed)

Signal #1 : D:\HPCHEM\2\DATA\082602-F\F26658.D\ECD1A.CH Vial: 59
Signal #2 : D:\HPCHEM\2\DATA\082602-F\F26658.D\ECD2B.CH
Acq On : 26 Aug 2002 10:07 pm Operator:
Sample : 48137-27 Inst : Instrume
Misc : SOIL Multiplr: 1.00
IntFile Signal #1: PCBINT.E IntFile Signal #2: PCBINT2.E
Quant Time: Aug 27 8:03 2002 Quant Results File: PBQ8092.RES

Quant Method : D:\HPCHEM\2\METHODS\PBQ8092.M (Chemstation Integrator)
Title : Aroclor 1016/1260
Last Update : Mon Aug 26 10:29:15 2002
Response via : Multiple Level Calibration
DataAcq Meth : PCB.M

Volume Inj. : 3 ul
Signal #1 Phase : DB-1701 Widebore Signal #2 Phase: DB-5 Widebore
Signal #1 Info : 0.53 mm , 1.0um f Signal #2 Info : 0.53 mm, 1.5um fil





analytics environmental laboratory LLC

195 Commerce Way
Portsmouth, New Hampshire 03801
603-436-5111 Fax 603-430-2151
800-929-9906

Mr. Josh Holden
Foster Wheeler Environmental Corp.
P.O. Box 660
Kittery ME 03904

August 27, 2002

SAMPLE DATA

Lab Sample ID:	48137-28
Matrix:	Solid
Percent Solid:	76
Dilution Factor:	1.3
Collection Date:	08/23/02
Lab Receipt Date:	08/23/02
Extraction Date:	08/26/02
Analysis Date:	08/26/02

CLIENT SAMPLE ID

Project Name:	BNAS- Bldg 335 PCB C/U
Project Number:	CTO-03
Field Sample ID:	CS-3-N-SW-2

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/kg	Results µg/kg
PCB-1016	20	U
PCB-1221	20	U
PCB-1232	20	U
PCB-1242	20	U
PCB-1248	20	U
PCB-1254	20	**610**
PCB-1260	20	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	88	%
Decachlorobiphenyl	81	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3545.

COMMENTS: Results are expressed on a dry weight basis.

PCB Report

Authorized signature Melissa A. Gilli

analytics environmental laboratory LLC

PCB CONFIRMATION RESULTS

Quote#:

SDG: 48137

Project No: CTO 03

Site ID: BNAS Bldg 335 PCB C/U

Location: Topsham, ME

Instrument ID: F

GC Columns: RTX-CLPesticidesI
RTX-CLPesticidesII

ID: 0.53(mm)

Sample ID: 48137-28

COMPOUND	RESPONSE #1 (ug/kg)	RESPONSE #2 (ug/kg)	DIFFERENCE %	#	% DIFFERENCE Acceptance Limit
PCB 1254	610	658	8		40

Column to be used to flag % Difference with an asterisk

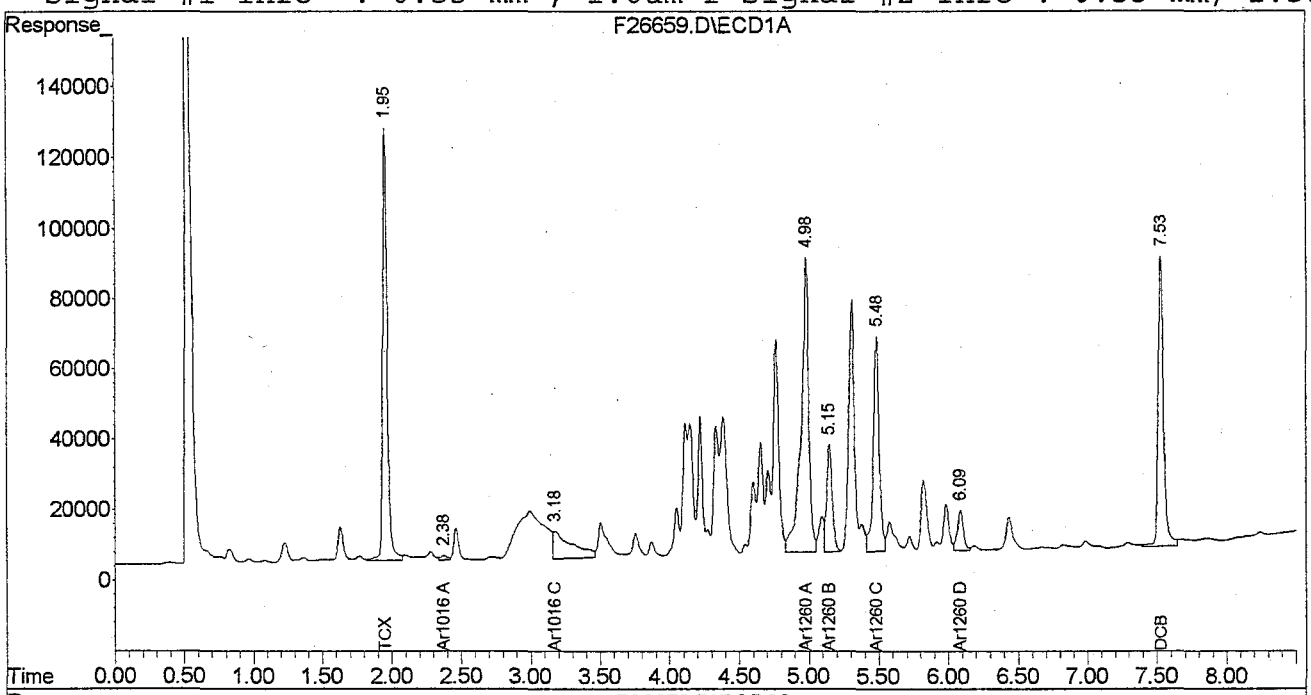
* Values outside of QC limits

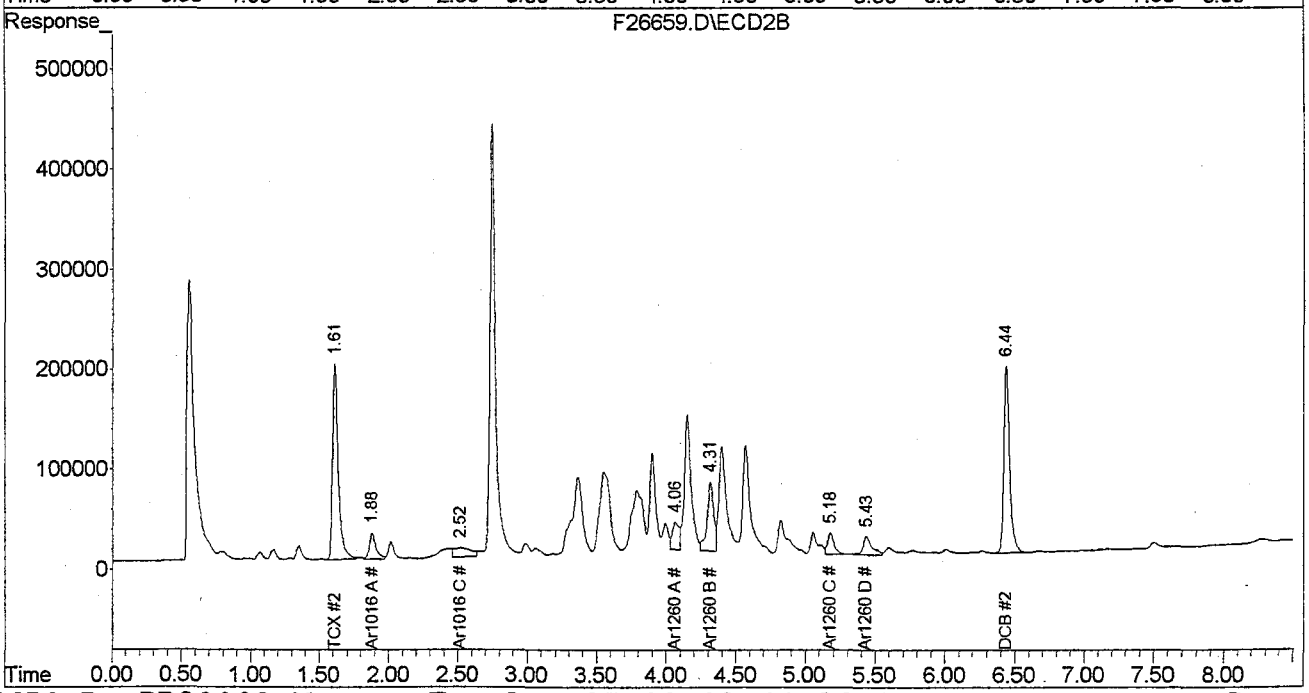
Quantitation Report (Not Reviewed)

Signal #1 : D:\HPCHEM\2\DATA\082602-F\F26659.D\ECD1A.CH Vial: 60
Signal #2 : D:\HPCHEM\2\DATA\082602-F\F26659.D\ECD2B.CH
Acq On : 26 Aug 2002 10:18 pm Operator:
Sample : 48137-28 Inst : Instrume
Misc : SOIL Multiplr: 1.00
IntFile Signal #1: PCBINT.E IntFile Signal #2: PCBINT2.E
Quant Time: Aug 27 8:03 2002 Quant Results File: PBQ8092.RES

Quant Method : D:\HPCHEM\2\METHODS\PBQ8092.M (Chemstation Integrator)
Title : Aroclor 1016/1260
Last Update : Mon Aug 26 10:29:15 2002
Response via : Multiple Level Calibration
DataAcq Meth : PCB.M

Volume Inj. : 3 ul
Signal #1 Phase : DB-1701 Widebore Signal #2 Phase: DB-5 Widebore
Signal #1 Info : 0.53 mm , 1.0um f Signal #2 Info : 0.53 mm, 1.5um fil





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PCB SOLID
SYSTEM MONITORING COMPOUND RECOVERY

Project #: CTO 03 Quote #: SDG#: 48137

Site ID: BNAS Bldg 335 PCB C/U Location: Topsham, ME

Instrument ID: F

GC Column: RTX-CLPesticides I ID: 0.53(mm)
RTX-CLPesticides II

	SAMPLE ID	COLUMN #1 SMC1	#	COLUMN #1 SMC2	#	COLUMN #2 SMC1	#	COLUMN #2 SMC2	#	TOT OUT	#
01	ZZZZZ	NA		NA		NA		NA		0	
02	P2692 16/60 0.02	NA		NA		NA		NA		0	
03	P2693 16/60 0.05	NA		NA		NA		NA		0	
04	P2694 16/60 0.1	NA		NA		NA		NA		0	
05	P2695 16/60 0.5	111		109		122		131		0	
06	P2696 16/60 1.0	NA		NA		NA		NA		0	
07	ZZZZZ	NA		NA		NA		NA		0	
08	P2677 1221 1.0	NA		NA		NA		NA		0	
09	P2678 1232 1.0	NA		NA		NA		NA		0	
10	P2679 1242 1.0	NA		NA		NA		NA		0	
11	P2682 1248 1.0	NA		NA		NA		NA		0	
12	P2680 1254 1.0	NA		NA		NA		NA		0	
13	ZZZZZ	102		105		112		100		0	
14	ZZZZZ	NA		NA		NA		NA		0	
15	ZZZZZ	98		109		90		99		0	
16	ZZZZZ	98		108		94		98		0	
17	ZZZZZ	91		99		86		91		0	
18	ZZZZZ	82		86		80		83		0	
19	ZZZZZ	85		100		84		95		0	
20	ZZZZZ	85		100		97		96		0	
21	ZZZZZ	85		90		83		89		0	
22	ZZZZZ	72		84		71		82		0	
23	ZZZZZ	79		94		76		90		0	
24	ZZZZZ	80		81		65		68		0	
25	ZZZZZ	73		85		67		77		0	
26	ZZZZZ	80		92		77		89		0	
27	ZZZZZ	81		95		77		86		0	
28	ZZZZZ	75		89		72		80		0	
29	ZZZZZ	80		89		76		83		0	
30	ZZZZZ	86		97		81		94		0	
31	P2695 16/60 0.5	107		108		105		107		0	
32											
33											
34											
35											

SMC1 = TCX 49-134
SMC2 = DCB 69-155

Column to be used to flag recovery values
* Values outside of protocol required QC limits
D System Monitoring Compound diluted out

analytics environmental laboratory LLC

PCB SOLID
SYSTEM MONITORING COMPOUND RECOVERY

Project #: CTO 03 Quote #: SDG#: 48137

Site ID: BNAS Bldg 335 PCB C/U Location: Topsham, ME

Instrument ID: F

GC Column: RTX-CLPesticides I ID: 0.53(mm)
RTX-CLPesticides II

	SAMPLE ID	COLUMN #1 SMC1	#	SMC2	#	COLUMN #2 SMC1	#	SMC2	#	TOT OUT	#
01	P2695 16/60 0.5	110		102		104		99		0	
02	B08232PAS	108		106		102		104		0	
03	L08232PASB	105		104		97		99		0	
04	LD08232PASB	117		117		109		104		0	
05	ZZZZZ	104		106		99		96		0	
06	ZZZZZ	105		101		99		95		0	
07	ZZZZZ	104		101		97		95		0	
08	ZZZZZ	103		101		99		94		0	
09	ZZZZZ	86		74		78		69		0	
10	ZZZZZ	103		108		96		89		0	
11	48137-8	97		88		92		85		0	
12	48137-9	106		101		101		94		0	
13	48137-10	110		101		103		93		0	
14	ZZZZZ	112		103		104		100		0	
15	48137-12 A/C	112		102		105		100		0	
16	48137-13 A/C	103		102		96		99		0	
17	ZZZZZ	100		100		93		102		0	
18	48137-15 A/C	104		122		98		115		0	
19	ZZZZZ	97		108		91		116		0	
20	48137-17 A/C	98		116		88		131		0	
21	48137-18 A/C	89		116		85		137		0	
22	ZZZZZ	100		102		94		102		0	
23	48137-19,MS A/C	91		118		86		136		0	
24	48137-19,MSD A/C	99		103		94		102		0	
25	ZZZZZ	D		D		D		D		0	
26	ZZZZZ	NA		NA		NA		NA		0	
27	P2695 16/60 0.5	111		105		105		100		0	
28											
29											
30											
31											
32											
33											
34											
35											

SMC1 = TCX 49-134
SMC2 = DCB 69-155

Column to be used to flag recovery values
* Values outside of protocol required QC limits
D System Monitoring Compound diluted out

analytics environmental laboratory LLC

PCB SOLID
SYSTEM MONITORING COMPOUND RECOVERY

Project #: CTO 03 Quote #: SDG#: 48137

Site ID: BNAS Bldg 335 PCB C/U Location: Topsham, ME

Instrument ID: F

GC Column: RTX-CLPesticides I ID: 0.53(mm)
RTX-CLPesticides II

		COLUMN #1				COLUMN #2				TOT	
	SAMPLE ID	SMC1	#	SMC2	#	SMC1	#	SMC2	#	OUT	#
01	P2695 16/60 0.5	111		105		105		100		0	
02	B08232PAS A/C	111		116		104		102		0	
03	L08232PASB A/C	106		106		97		97		0	
04	LD08232PASB A/C	119		112		109		102		0	
05	ZZZZZ	63		43	*	54		45	*	2	
06	ZZZZZ	83		109		70		92		0	
07	ZZZZZ	106		95		75		78		0	
08	ZZZZZ	72		53	*	53		46	*	2	
09	ZZZZZ	D		D		D		D		0	
10	ZZZZZ	D		D		D		D		0	
11	ZZZZZ	D		D		D		D		0	
12	ZZZZZ	D		D		D		D		0	
13	48137-1 1:5 A/C	110		75		90		75		0	
14	48137-2 1:5 A/C	115		110		95		80		0	
15	48137-4 1:20 A/C	D		D		D		D		0	
16	48137-5 1:1000 A/C	D		D		D		D		0	
17	48137-6 1:10 A/C	D		D		D		D		0	
18	48137-7 1:10 A/C	D		D		D		D		0	
19	48137-11 1:10 A/C	D		D		D		D		0	
20	48137-14 1:10 A/C	D		D		D		D		0	
21	48137-16 1:20 A/C	D		D		D		D		0	
22	48137-19 1:20 A/C	D		D		D		D		0	
23	P2695 16/60 0.5	111		103		103		95		0	
24											
25											
26											
27											
28											
29											
30											
31											
32											
33											
34											
35											

SMC1 = TCX 49-134
SMC2 = DCB 69-155

Column to be used to flag recovery values
* Values outside of protocol required QC limits
D System Monitoring Compound diluted out

analytics environmental laboratory LLC

PCB SOLID
SYSTEM MONITORING COMPOUND RECOVERY

Project #: CTO 03 Quote #: SDG#: 48137

Site ID: BNAS Bldg 335 PCB C/U Location: Topsham, ME

Instrument ID: F

GC Column: RTX-CLPesticides I ID: 0.53(mm)
RTX-CLPesticides II

	SAMPLE ID	COLUMN #1 SMC1	#	COLUMN #1 SMC2	#	COLUMN #2 SMC1	#	COLUMN #2 SMC2	#	TOT OUT	#
01	ZZZZZ	112		104		103		95		0	
02	B08262PAS	107		104		101		97		0	
03	L08262PAS	105		104		95		93		0	
04	LD08262PAS	97		96		88		87		0	
05	48137-3	103		100		97		93		0	
06	ZZZZZ	100		178		91		95		0	
07	48137-21	95		95		88		76		0	
08	ZZZZZ	101		93		94		85		0	
09	48137-23	98		88		91		80		0	
10	48137-24	100		98		94		83		0	
11	48137-25	92		99		86		80		0	
12	48137-26	97		97		90		82		0	
13	48137-27	106		92		95		82		0	
14	48137-28	88		81		78		68		0	
15	48137-23, MS	100		93		92		83		0	
16	48137-23, MSD	97		103		89		80		0	
17	P2695 16/60 0.5	110		101		100		92		0	
18											
19											
20											
21											
22											
23											
24											
25											
26											
27											
28											
29											
30											
31											
32											
33											
34											
35											

SMC1 = TCX 49-134
SMC2 = DCB 69-155

Column to be used to flag recovery values
* Values outside of protocol required QC limits
D System Monitoring Compound diluted out

analytics environmental laboratory LLC

PCB SOLID
LABORATORY CONTROL SPIKE/ DUPLICATE
PERCENT RECOVERY

Project #: CTO 03 Quote #: SDG#: 48137

Site ID: BNAS Bldg 335 PCB C/U Location: Topsham, ME

Instrument ID: F

GC Column: RTX-CLPesticides I ID: 0.53(mm)

RTX-CLPesticides II

Laboratory Control Spike/Duplicate Sample ID: L08232PASB\LD08232PASB

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENTRATION (ug/kg)	LCS CONCENTRATION (ug/kg)	LCS RECOVERY % #	QC LIMITS % REC
PCB 1016	267	U	297	111	52-127
PCB 1260	267	U	287	108	68-159
PCB 1016 #2	267	U	309	116	57-131
PCB 1260 #2	267	U	263	98	56-139

COMPOUND	SPIKE ADDED (ug/kg)	LCSD CONCENTRATION (ug/kg)	LCSD % REC #	RPD #	QC LIMITS RPD	QC LIMITS % REC.
PCB 1016	267	295	110	1	50	52-127
PCB 1260	267	298	112	4	50	68-159
PCB 1016 #2	267	293	110	6	50	57-131
PCB 1260 #2	267	289	108	9	50	56-139

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits
RPD: 0 out of 4 outside limits
Spike Recovery:0 out of 8 outside limits

Comments: _____

analytics environmental laboratory LLC

PCB SOLID
MATRIX SPIKE/ DUPLICATE
PERCENT RECOVERY

Project #: CTO 03 Quote #: SDG#: 48137

Site ID: BNAS Bldg 335 PCB C/U Location: Topsham, ME

Instrument ID: F

GC Column: RTX-CLPesticides I ID: 0.53(mm)

RTX-CLPesticides II

Matrix Spike/Duplicate Sample ID: 48137-19

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENTRATION (ug/kg)	MS CONCENTRATION (ug/kg)	MS RECOVERY %	#	QC LIMITS % REC
PCB 1016	295	U	323	110		52-127
PCB 1260	295	U	4030	1368	*	68-159
PCB 1016 #2	295	U	415	141	*	57-131
PCB 1260 #2	295	U	1279	434	*	56-139

COMPOUND	SPIKE ADDED (ug/kg)	MSD CONCENTRATION (ug/kg)	MSD % REC	#	RPD	#	QC LIMITS RPD	QC LIMITS % REC.
PCB 1016	295	341	115		5		50	52-127
PCB 1260	295	4037	1368	*	0		50	68-159
PCB 1016 #2	295	375	127		10		50	57-131
PCB 1260 #2	295	1313	445	*	3		50	56-139

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits
RPD: 0 out of 4 outside limits
Spike Recovery: 5 out of 8 outside limits

Comments: _____

analytics environmental laboratory LLC

PCB SOLID
LABORATORY CONTROL SPIKE/ DUPLICATE
PERCENT RECOVERY

Project #: CTO 03 Quote #: SDG#: 48137

Site ID: BNAS Bldg 335 PCB C/U Location: Topsham, ME

Instrument ID: F

GC Column: RTX-CLPesticides I ID: 0.53(mm)

RTX-CLPesticides II

Laboratory Control Spike/Duplicate Sample ID: L08232PASB A/C \LD08232PASB A/C

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENTRATION (ug/kg)	LCS CONCENTRATION (ug/kg)	LCS RECOVERY % #	QC LIMITS % REC
PCB 1016	267	U	297	111	52-127
PCB 1260	267	U	291	109	68-159
PCB 1016 #2	267	U	326	122	57-131
PCB 1260 #2	267	U	265	99	56-139

COMPOUND	SPIKE ADDED (ug/kg)	LCSD CONCENTRATION (ug/kg)	LCSD % REC #	RPD #	QC LIMITS RPD	QC LIMITS % REC.
PCB 1016	267	296	111	0	50	52-127
PCB 1260	267	300	112	3	50	68-159
PCB 1016 #2	267	307	115	6	50	57-131
PCB 1260 #2	267	314	118	17	50	56-139

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits
RPD: 0 out of 4 outside limits
Spike Recovery:0 out of 8 outside limits

Comments: _____

analytics environmental laboratory LLC

PCB SOLID
LABORATORY CONTROL SPIKE/ DUPLICATE
PERCENT RECOVERY

Project #: CTO 03 Quote #: SDG#: 48137

Site ID: BNAS Bldg 335 PCB C/U Location: Topsham, ME

Instrument ID: F

GC Column: RTX-CLPesticides I ID: 0.53(mm)

RTX-CLPesticides II

Laboratory Control Spike/Duplicate Sample ID: L08262PAS\LD08262PAS

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENTRATION (ug/kg)	LCS CONCENTRATION (ug/kg)	LCS RECOVERY % #	QC LIMITS % REC
PCB 1016	267	U	297	111	52-127
PCB 1260	267	U	299	112	68-159
PCB 1016 #2	267	U	320	120	57-131
PCB 1260 #2	267	U	271	101	56-139

COMPOUND	SPIKE ADDED (ug/kg)	LCSD CONCENTRATION (ug/kg)	LCSD % REC #	RPD #	QC LIMITS RPD	QC LIMITS % REC.
PCB 1016	267	275	103	7	50	52-127
PCB 1260	267	276	103	8	50	68-159
PCB 1016 #2	267	280	105	13	50	57-131
PCB 1260 #2	267	249	93	8	50	56-139

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits
RPD: 0 out of 4 outside limits
Spike Recovery:0 out of 8 outside limits

Comments: _____

analytics environmental laboratory LLC

PCB SOLID
MATRIX SPIKE/ DUPLICATE
PERCENT RECOVERY

Project #: CTO 03 Quote #: SDG#: 48137

Site ID: BNAS Bldg 335 PCB C/U Location: Topsham, ME

Instrument ID: F

GC Column: RTX-CLPesticides I ID: 0.53(mm)

RTX-CLPesticides II

Matrix Spike/Duplicate Sample ID: 48137-23

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENTRATION (ug/kg)	MS CONCENTRATION (ug/kg)	MS RECOVERY % #	QC LIMITS % REC
PCB 1016	284	U	300	106	52-127
PCB 1260	284	U	294	104	68-159
PCB 1016 #2	284	U	297	105	57-131
PCB 1260 #2	284	U	247	87	56-139

COMPOUND	SPIKE ADDED (ug/kg)	MSD CONCENTRATION (ug/kg)	MSD % REC #	RPD #	QC LIMITS RPD	QC LIMITS % REC.
PCB 1016	282	300	106	0	50	52-127
PCB 1260	282	286	102	3	50	68-159
PCB 1016 #2	282	291	103	2	50	57-131
PCB 1260 #2	282	245	87	1	50	56-139

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits
RPD: 0 out of 4 outside limits
Spike Recovery: 0 out of 8 outside limits

Comments: _____

PEST/PCB/HERB Instrument: F

Load: See

Unload: _____

080902-F

Data File	Vial	Sample	Dil	Method	Comments
F26112	100	HEXANE		PB080892-M	
13	1	P2692 16/60 0.02			NOT USED
14	2	P2692 16/60 0.02			✓
15	2	P2693 16/60 0.05			✓
16	3	P2694 16/60 0.1			✓
17	4	P2695 16/60 0.5			✓
18	5	P2696 16/60 1.0			✓
19	6	P2598 16/60 cc			✓
20	7	P2677 1221 1.0			for, overlaps
21	8	P2678 1232 1.0			SP 5,
22	9	P2679 1242 1.0			
23	10	P2682 1248 1.0			
24	11	P2680 1254 1.0			
25	12	B080892PAS			✓
* 26A	13	L080892PASB (Faulty auto, syringe stuck)			✓
27	14	L080892PASB			✓
28	15	48041-2			✓
29	16	-3			✓
30	17	-6			✓
31	18	-7			✓
32	19	-8			✓
33	20	-9			✓
34	21	-10			✓
35	22	-12			✓
36	23	-13			✓
37	24	-14			✓
38	25	-14 MS			E flag 1016
39	26	-14 MSD			1260 - OK
					fails SP

(CONT.)

[048/050]

PEST/PCB/HERB Instrument: F

Load:
Unload:

082602-F

Data File	Vial	Sample	Dil	Method	Comments
F26597	1	P2695 16/60 0.5		PSQ08092 M	✓
98	2	B08232PAS		✓	
99	3	L08232PASB		✓	
F26600	4	LB08232PASB		✓	
1	5	48137-1			MM 1:5 1254
2	6	-2			↓
3	7	-4			MM 1:20
4	8	-5			MM 1:1000
5	9	-6			MM 1:10
6	10	-7			↓
7	11	-8		✓	
8	12	-9		✓	
9	13	-10		✓	
10	14	-11 A/C			MM 1:10
11	15	-12		✓	
12	16	-13		✓	
13	17	-14			MM 1:10
14	18	-15		✓	
15	19	-16			MM 1:20
16	20	-17		✓	
17	21	-18		✓	
18	22	-19			MM 1:20
19	23	-19 MS	A/C		1254 hit - Spikes
20	24	-19 MSD	↓		not usable.
21	25	48123-2 1:20		✓	50mL→1mL
22	26	P2680 1254 1.0			
23	1	P2695 16/60 0.5		✓	
24	27	B08232PAS A/C		✓	

(CONT-)

PEST/PCB/HERB Instrument: F

Load: [illegible] /SC
Unload: [illegible]

[illegible] 082602-F (CONT.)

Data File	Vial	Sample	Dil	Method	Comments
F26625	28	L08232PASB A/C		1BQ08092.M	✓
26	29	L08232 PASB ↓			✓
27	30	48116-1 A/C			✓
28	31	↓ -2			MRL 1:10
29	32	48117-1			✓
30	33	↓ -2 ↓			✓
31	34	48116-1 1:10 A/C			100mL → 1mL ✓
32	35	↓ -2 ↓ ↓			✓
33	36	48117-1 1:10 A/C			
34	37	↓ -2 ↓ ↓			
35	38	48137-1 1:5			✓ 100mL → 1mL
36	39	-2 ↓			✓ ↓
37	40	-4 1:20			✓ 50mL → 1mL
38	41	-5 1:1000			✓ 1mL → 1mL
39	42	-6 1:10			✓ 100mL → 1mL
40	43	-7 1:10			✓
41	44	-11 1:10			✓
42	45	-14 1:10			✓ ↓
43	46	-16 1:20			✓ 50mL → 1mL
44	47	↓ -19 1:20			✓ ↓
45	1	P2695 16/60 0.5			✓
46	1	P2695 16/60 0.5			NOT USED.
47	48	B082602PAS			✓
48	49	L082602PAS			✓
49	50	LD082602PAS			✓
50	51	48137-3			✓
51	52	48137-20			MRL 1:1000
52	53	48137-21			✓

PEST/PCB/HERB Instrument: F

Load: SC

Unload: [illegible]

08 2602 - F (cont.)

Data File	Vial	Sample	Dil	Method	Comments
F26653	54	48137-22			MR 1:10
54	55	-23			✓
55	56	-24			✓
56	57	-25			✓
57	58	-26			✓
58	59	-27			✓
59	60	-28			✓
60	61	-23, MS			✓
61	62	-23, MSD			✓
62	1	P2695 16/60 0.5			✓
63	1	P2695 16/60 0.5			NOT USED.
64	63	48137-20 1:1000			✓
65	64	-22 1:10			✓
66	65	48041-14 1:2			✓
67	66	-14 MS 1:2			✓ 2 confirmed
68	67	-14 MS 1:2			✓ 3
69	1	P2695 16/60 0.5			✓

8-27-02

analytics environmental laboratory LLC

PCB
INITIAL CALIBRATION DATA

Project #: CTO 03 Quote #: SDG#: 48137

Site ID: BNAS Bldg 335 PCB C/U Location: Topsham, ME

Instrument ID: F

GC Column: RTX-CLPesticides I ID: 0.53(mm)

RTX-CLPesticides II

Method Name: PBQ08092.M

Level 1 File Name	F26114.D
Level 2 File Name	F26115.D
Level 3 File Name	F26116.D
Level 4 File Name	F26117.D
Level 5 File Name	F26118.D

Compound	Calibration Fit	R
TCX	Linear	0.999
Ar1016 A	Linear	0.998
Ar1016 B	Linear	0.998
Ar1016 C	Linear	0.999
Ar1260 A	Linear	1.000
Ar1260 B	Linear	0.999
Ar1260 C	Linear	1.000
Ar1260 D	Linear	1.000
DCB	Linear	0.999
TCX #2	Linear	0.999
Ar1016 A #2	Linear	0.998
Ar1016 B #2	Linear	0.996
Ar1016 C #2	Linear	0.998
Ar1260 A #2	Linear	0.998
Ar1260 B #2	Linear	0.998
Ar1260 C #2	Linear	0.999
Ar1260 D #2	Linear	0.998
DCB #2	Linear	0.999

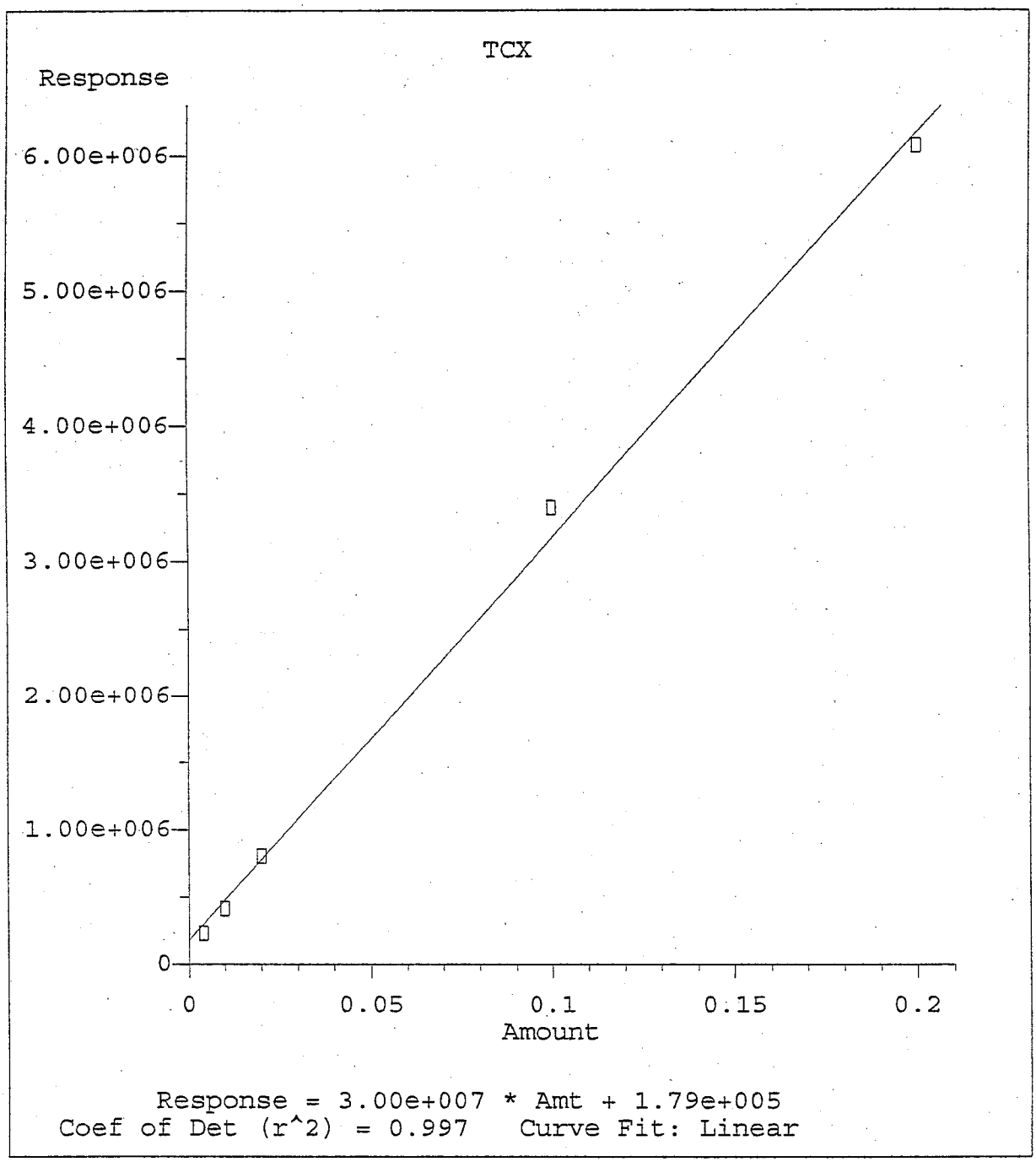
*Compounds must have a %RSD of ≤20% or correlation coefficient of 0.995 or greater.

Comments:

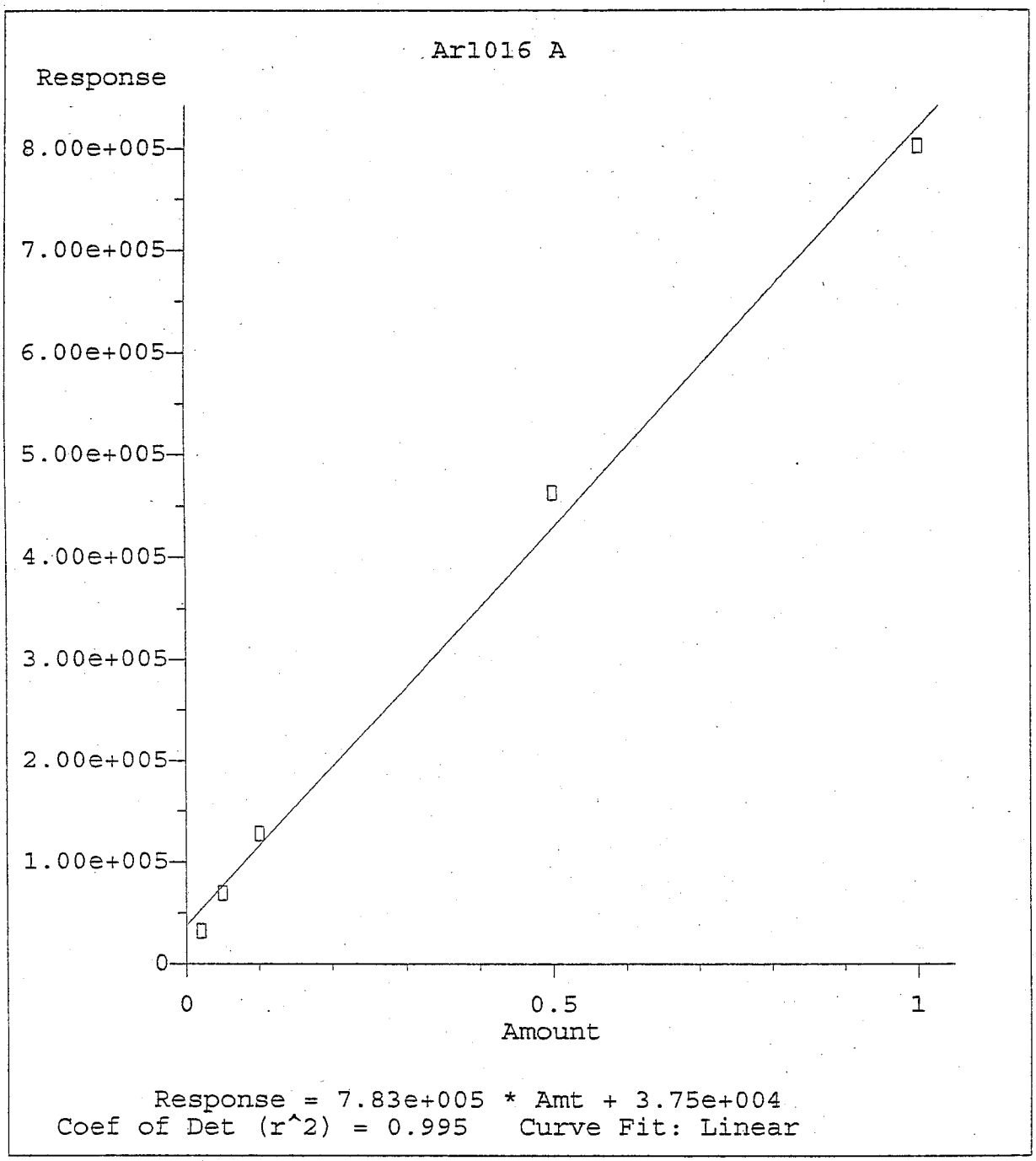
D:\HPCHEM\2\METHODS\PBQ8092.M

Level 1 File Name F26114.D
Level 2 File Name F26115.D
Level 3 File Name F26116.D
Level 4 File Name F26117.D
Level 5 File Name F26118.D

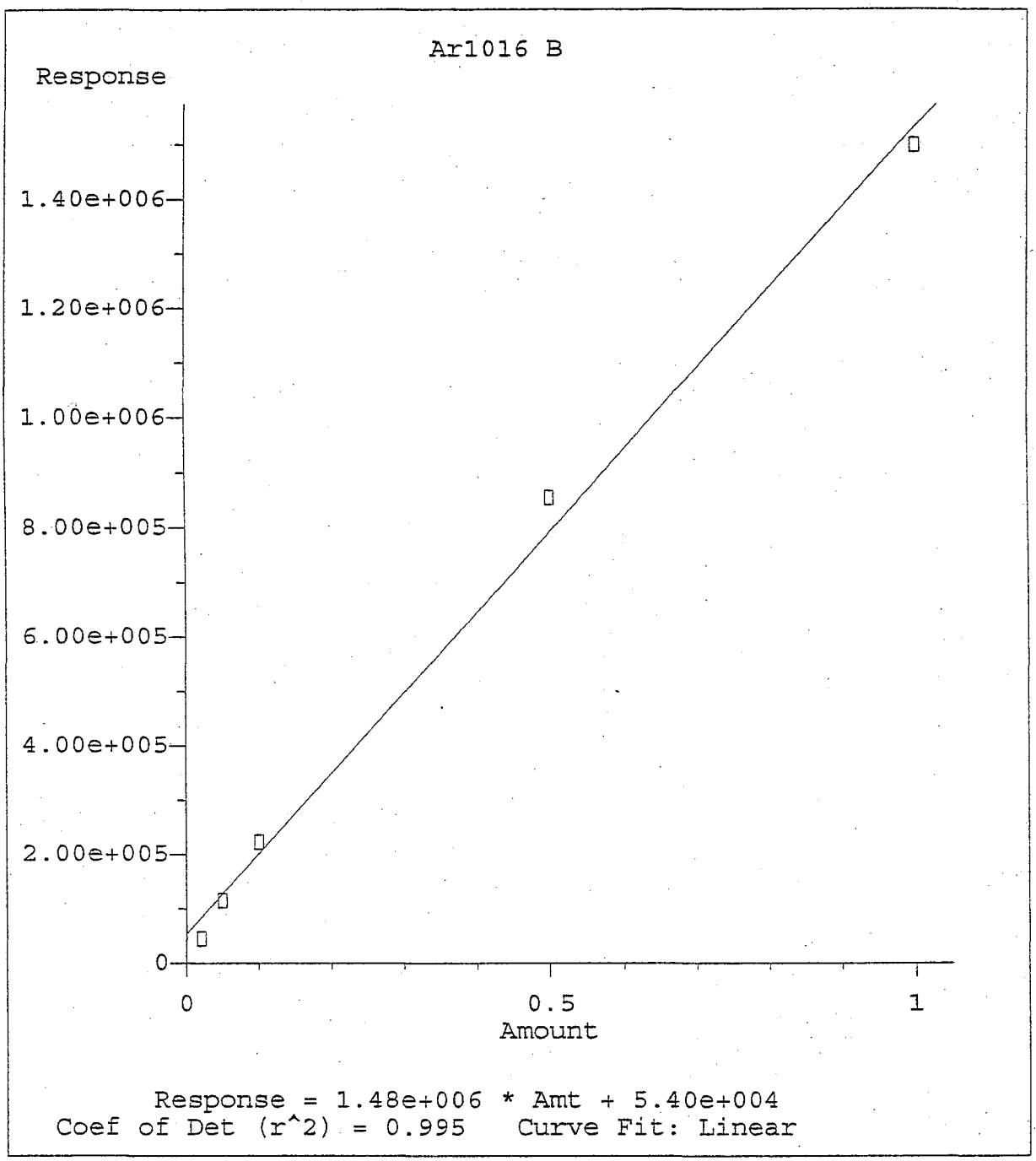
Name	Calibration Fit	R^2	R
TCX	Linear	0.997	0.999
Ar1016 A	Linear	0.995	0.998
Ar1016 B	Linear	0.995	0.998
Ar1016 C	Linear	0.997	0.999
Ar1260 A	Linear	0.999	1.000
Ar1260 B	Linear	0.999	0.999
Ar1260 C	Linear	0.999	1.000
Ar1260 D	Linear	0.999	1.000
DCB	Linear	0.999	0.999
TCX #2	Linear	0.997	0.999
Ar1016 A #2	Linear	0.997	0.998
Ar1016 B #2	Linear	0.992	0.996
Ar1016 C #2	Linear	0.995	0.998
Ar1260 A #2	Linear	0.997	0.998
Ar1260 B #2	Linear	0.997	0.998
Ar1260 C #2	Linear	0.998	0.999
Ar1260 D #2	Linear	0.997	0.998
DCB #2	Linear	0.998	0.999



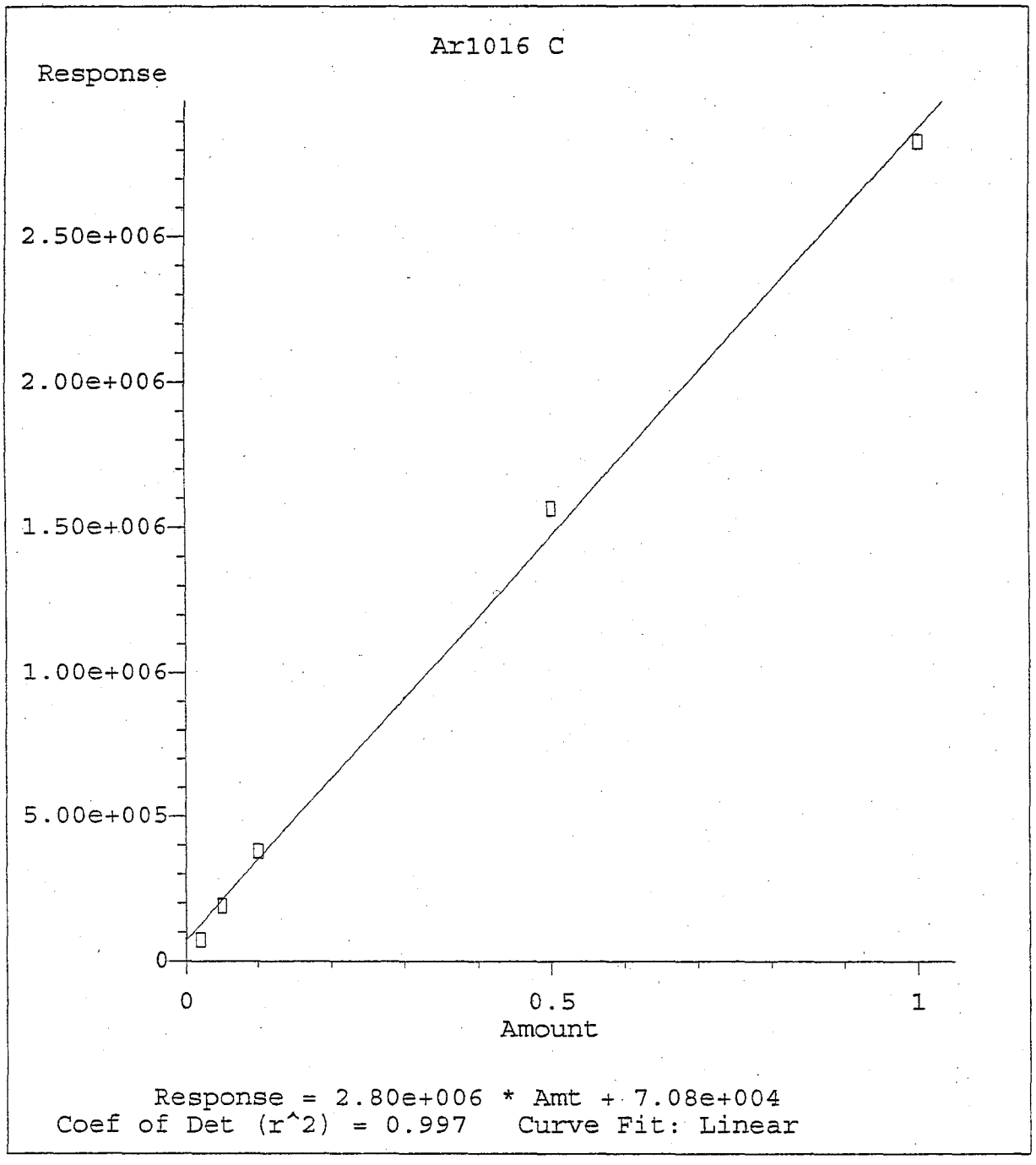
Method Name: D:\HPCHEM\2\METHODS\PBQ8092.M
Calibration Table Last Updated: Mon Aug 12 13:21:28 2002



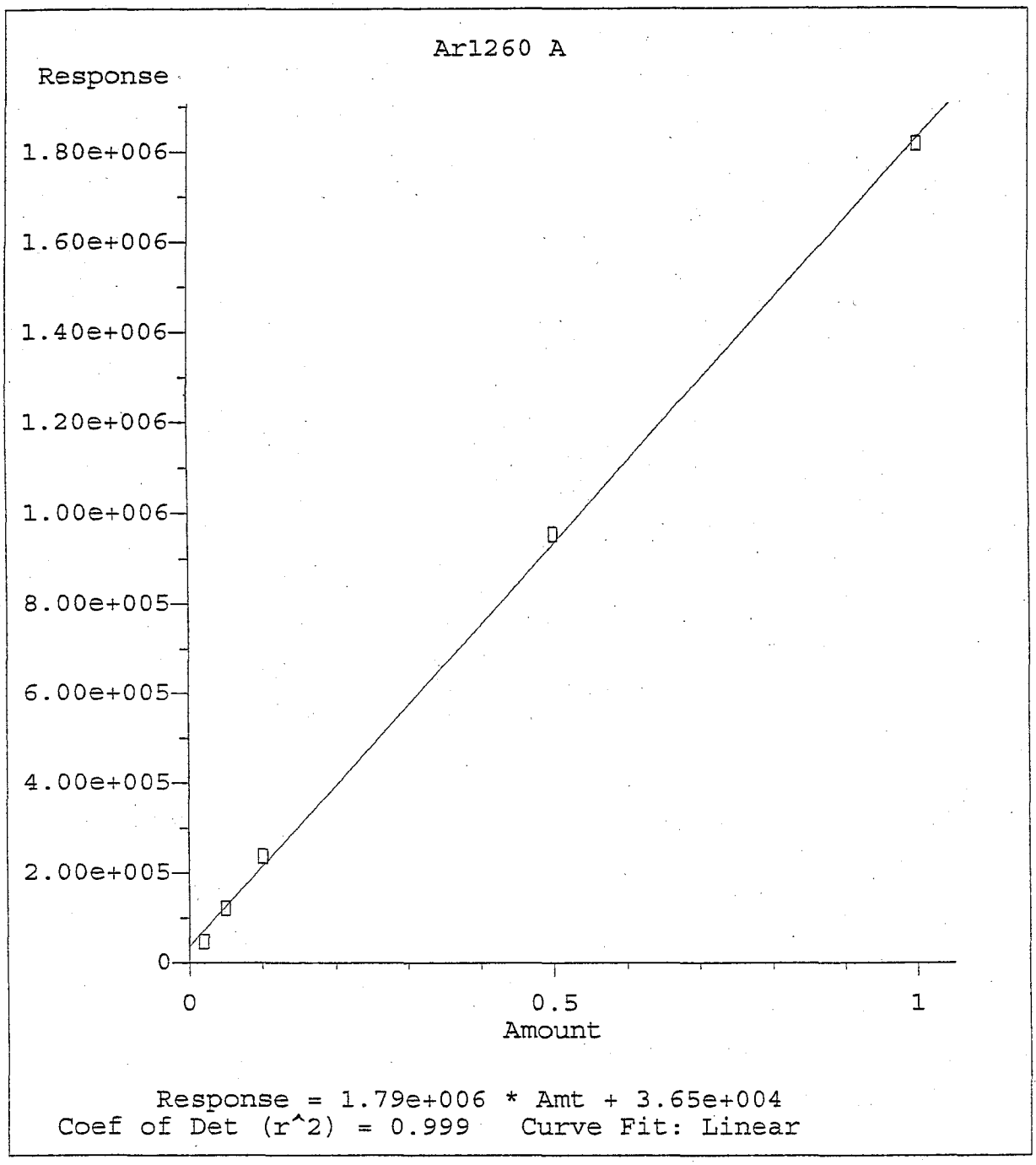
Method Name: D:\HPCHEM\2\METHODS\PBQ8092.M
Calibration Table Last Updated: Mon Aug 12 13:21:28 2002



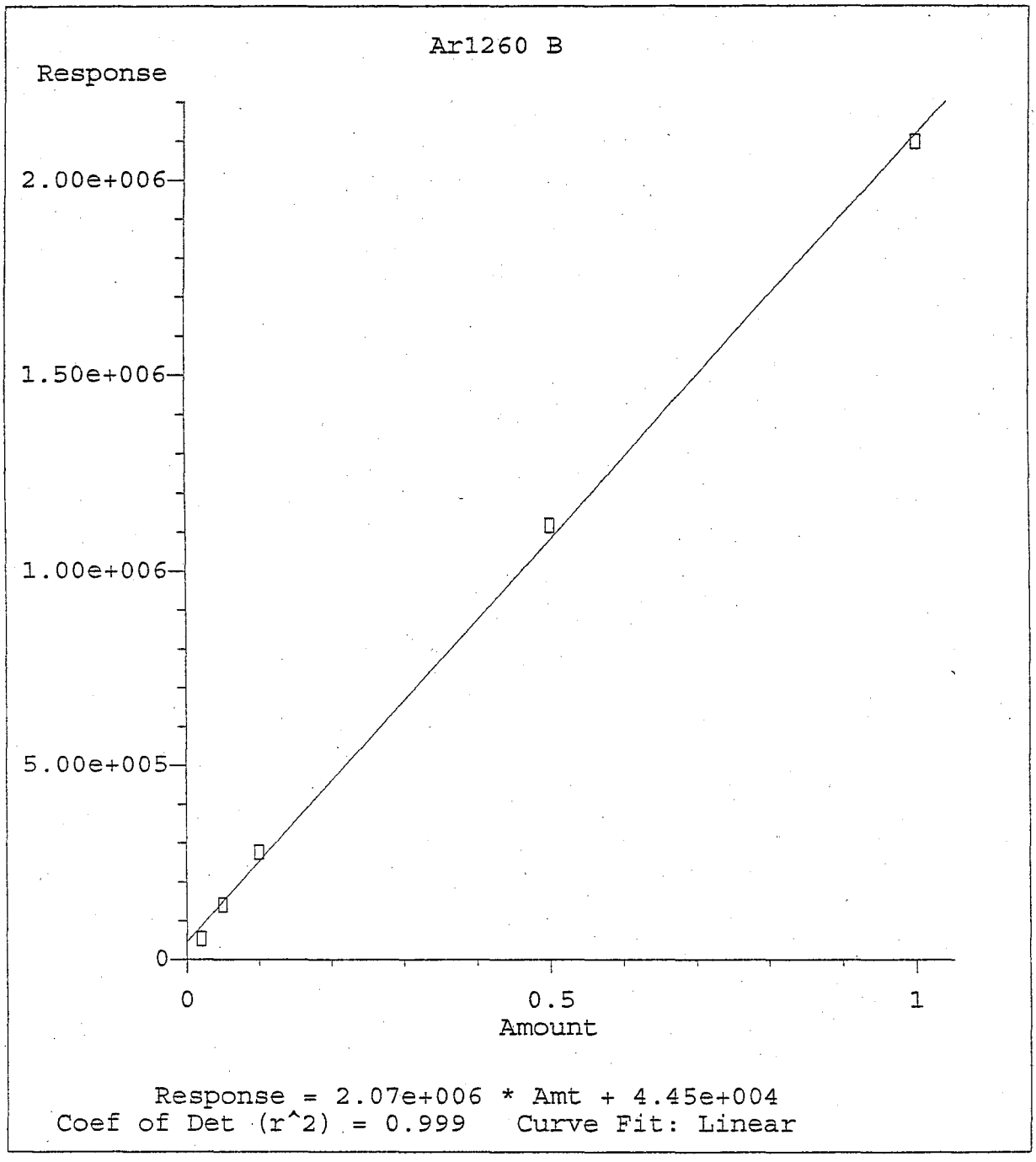
Method Name: D:\HPCHEM\2\METHODS\PBQ8092.M
Calibration Table Last Updated: Mon Aug 12 13:21:28 2002



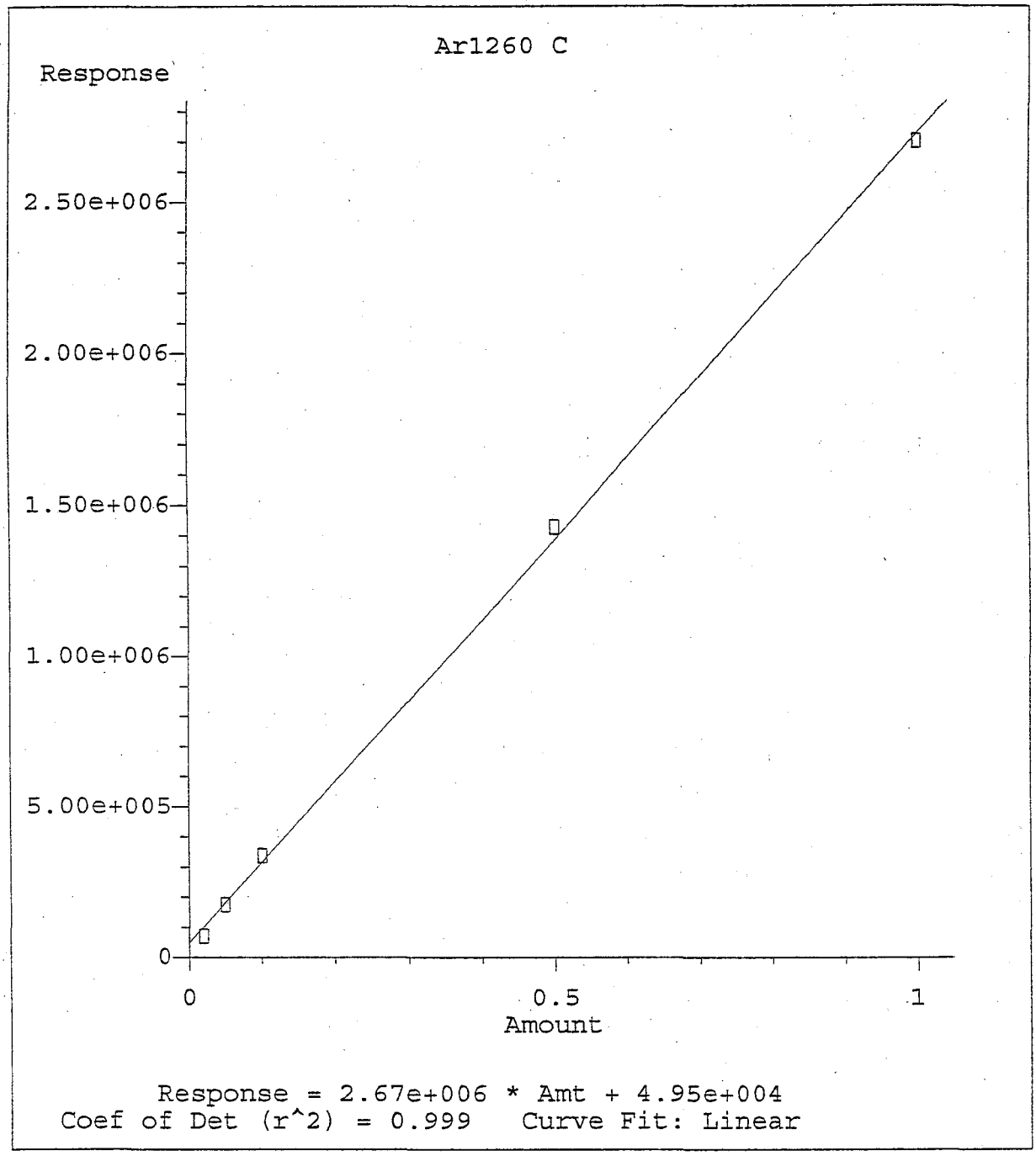
Method Name: D:\HPCHEM\2\METHODS\PBQ8092.M
Calibration Table Last Updated: Mon Aug 12 13:21:28 2002



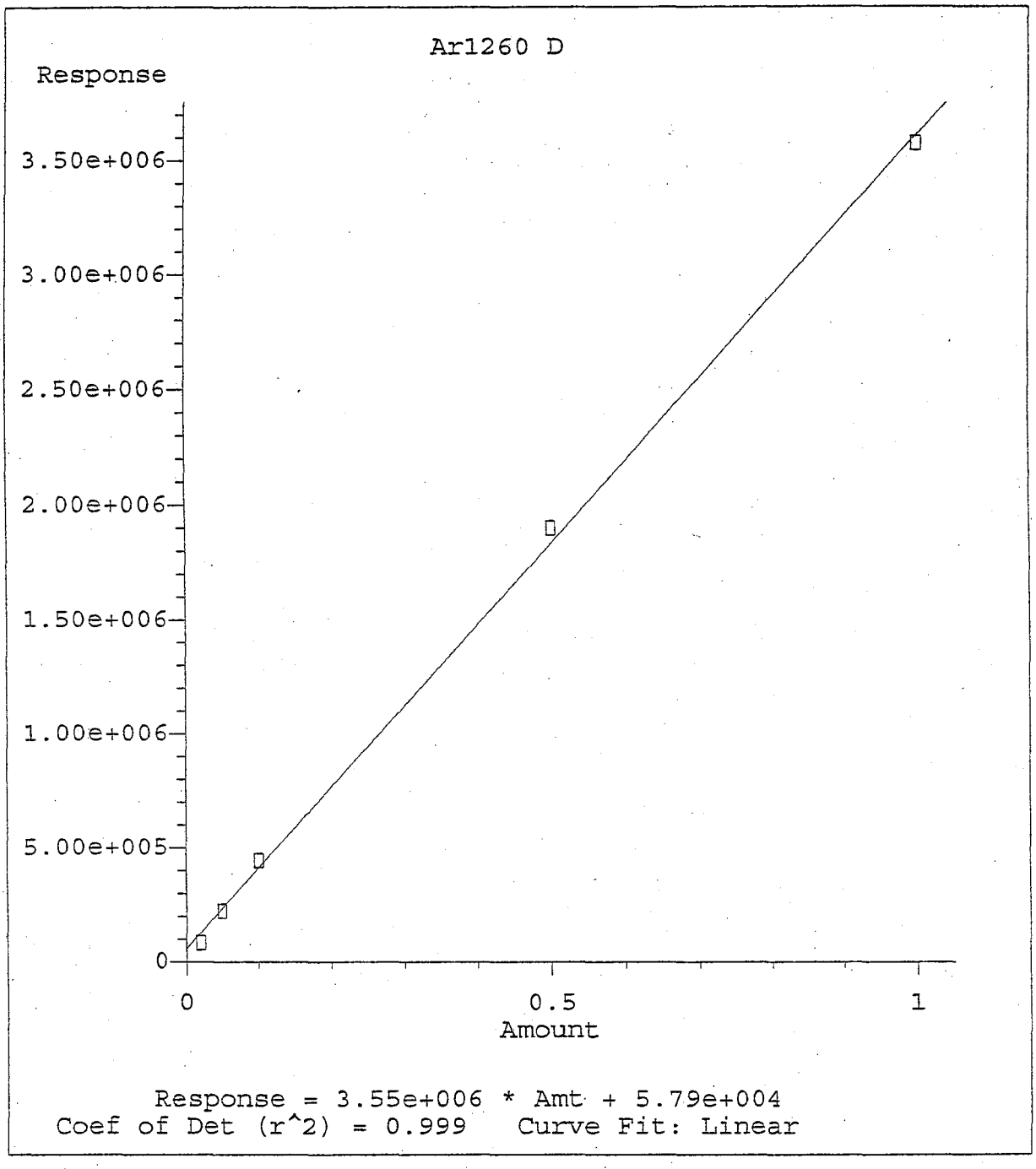
Method Name: D:\HPCHEM\2\METHODS\PBQ8092.M
Calibration Table Last Updated: Mon Aug 12 13:21:28 2002



Method Name: D:\HPCHEM\2\METHODS\PBQ8092.M
Calibration Table Last Updated: Mon Aug 19 08:41:34 2002



Method Name: D:\HPCHEM\2\METHODS\PBQ8092.M
Calibration Table Last Updated: Mon Aug 19 08:41:34 2002



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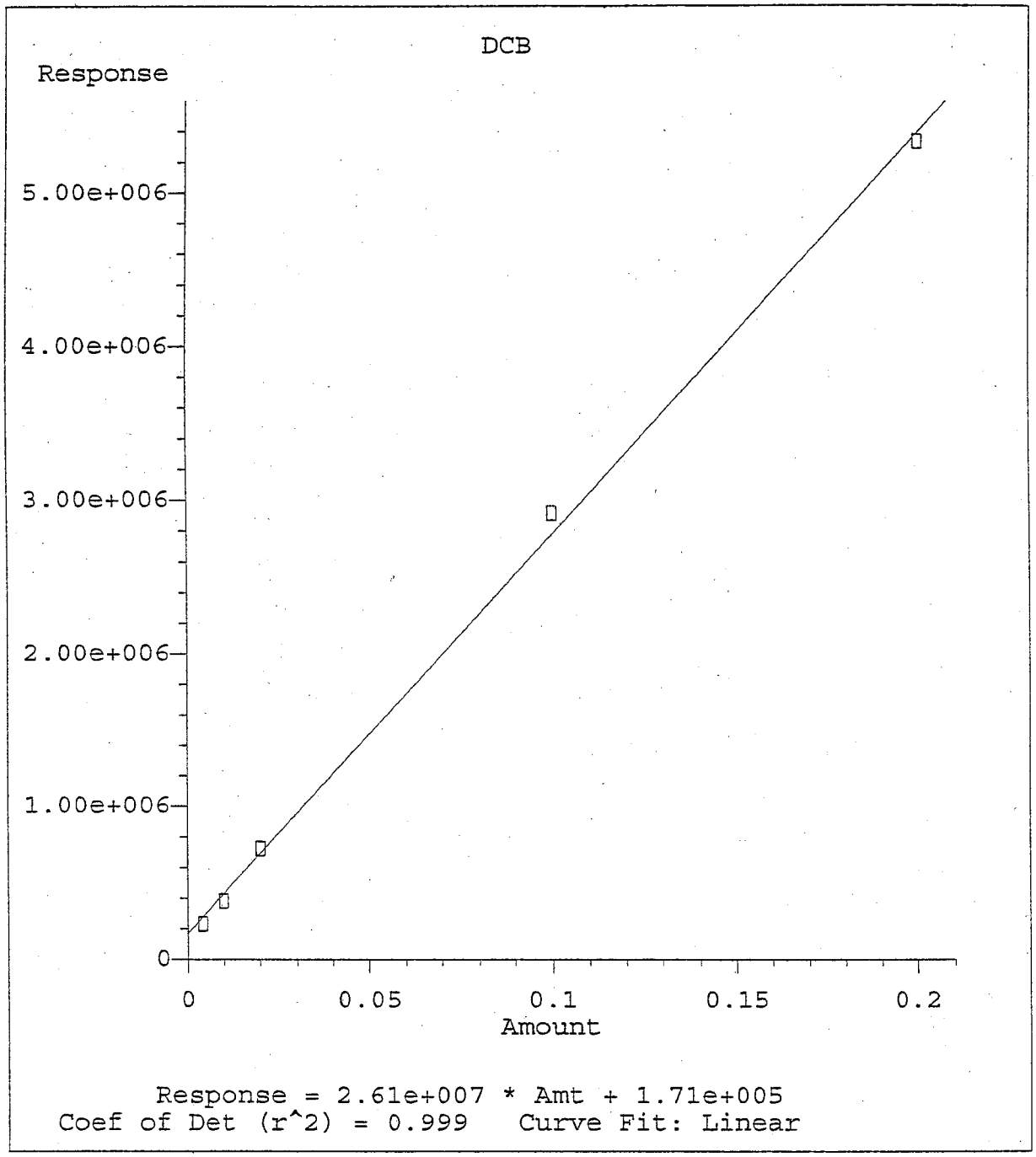
Calibration Table Last Updated: Mon Aug 19 08:41:34 2002



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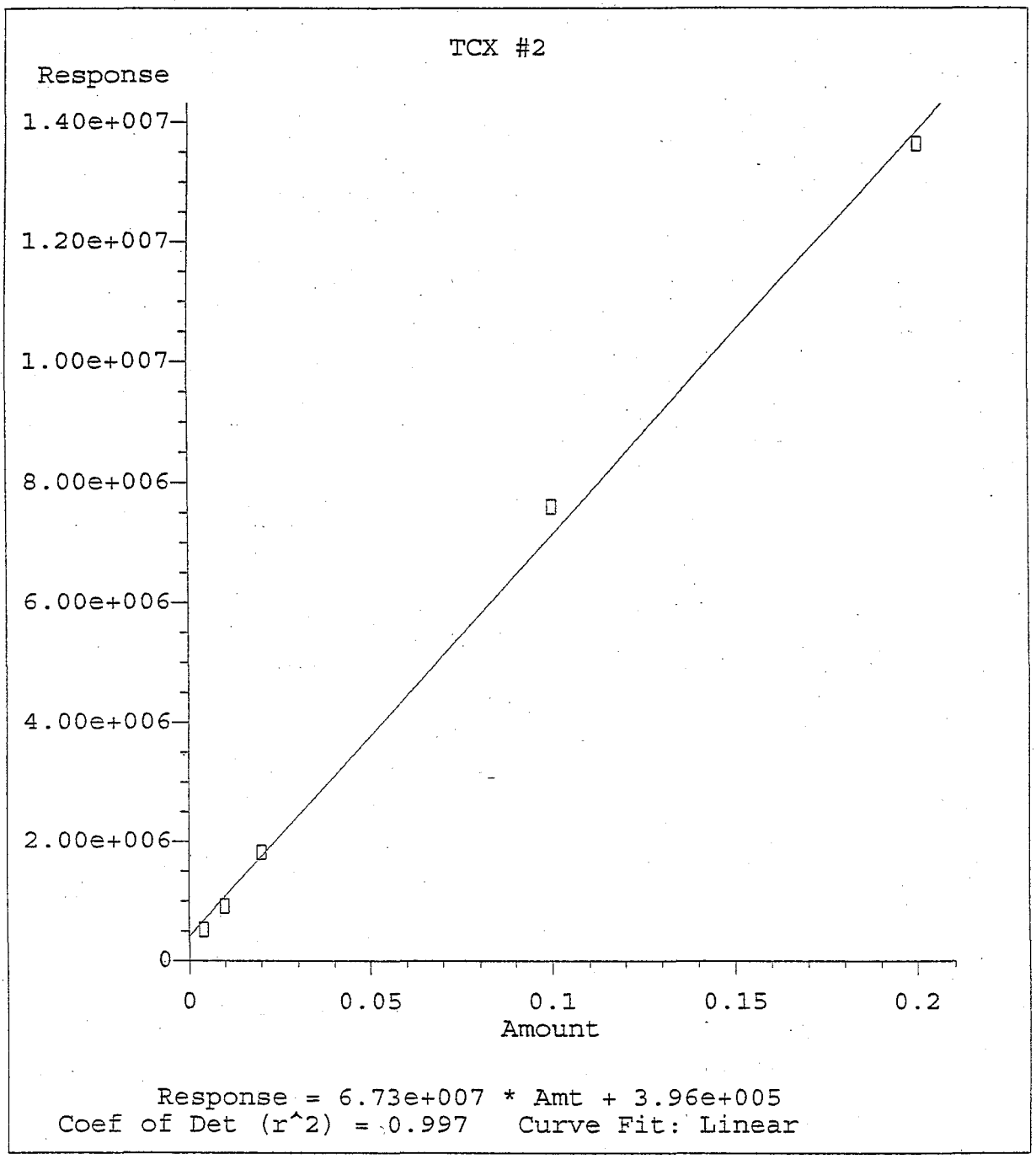
Calibration Table Last Updated: Mon Aug 19 08:41:34 2002



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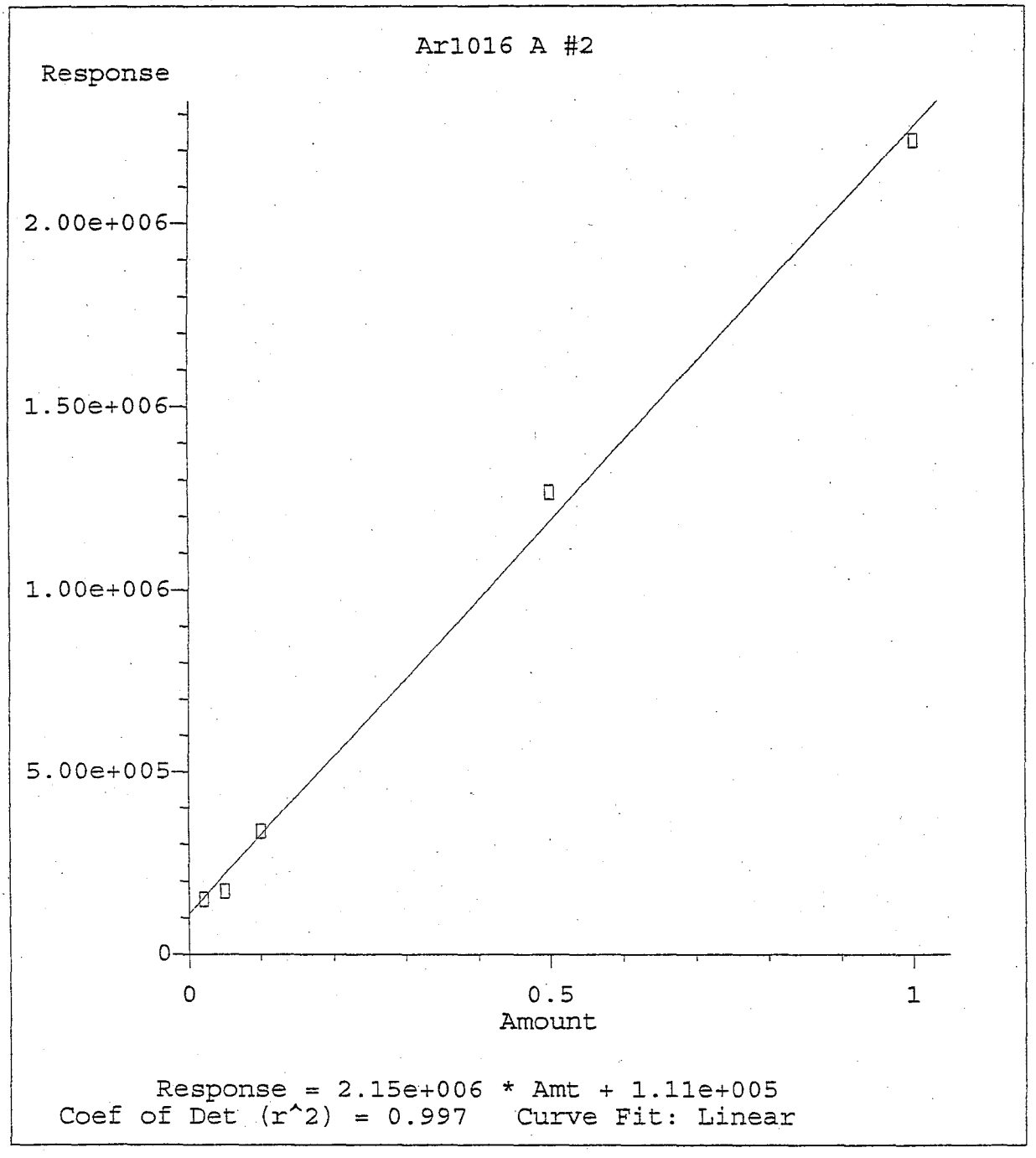
Calibration Table Last Updated: Mon Aug 19 08:41:34 2002



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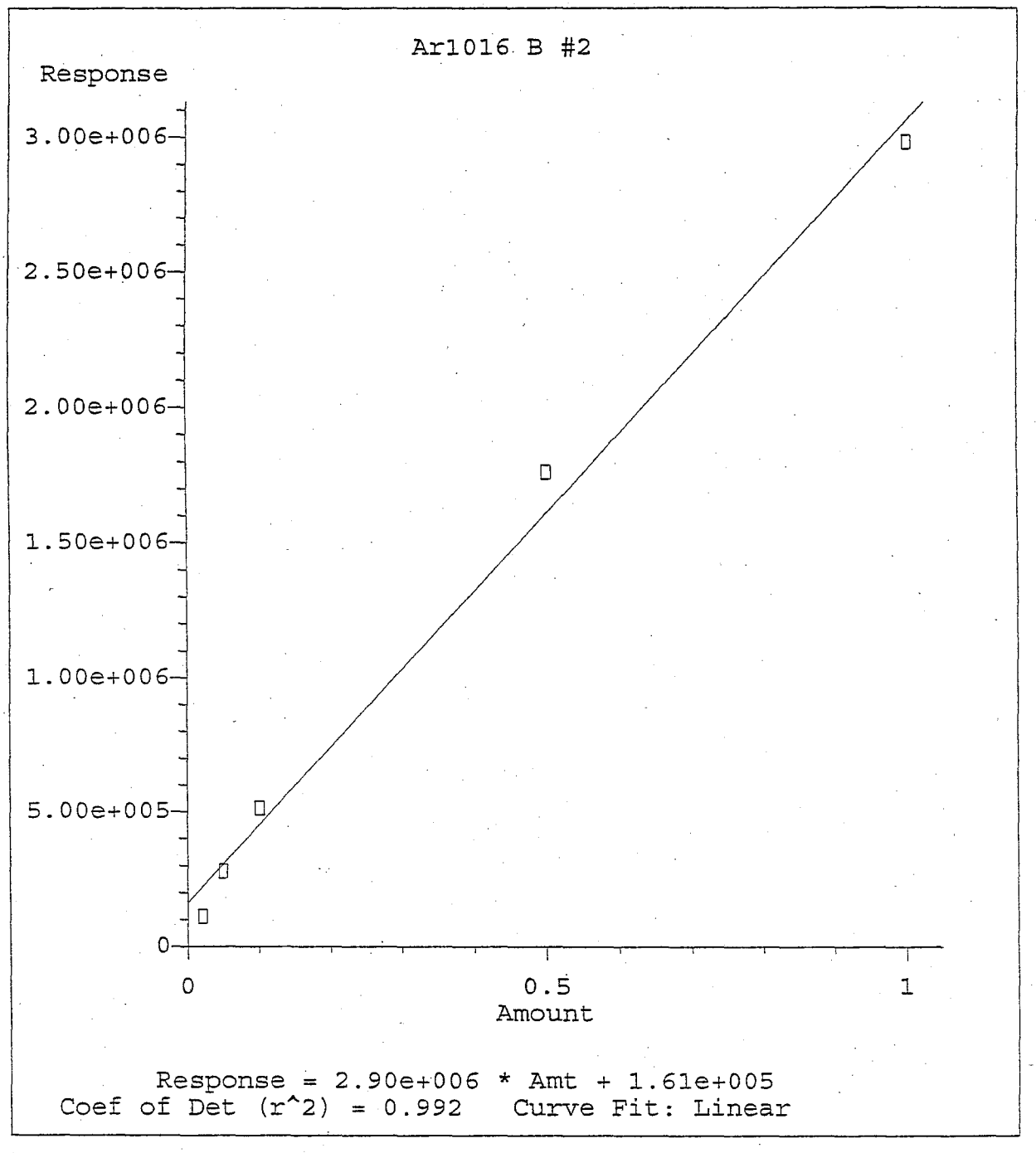
Calibration Table Last Updated: Mon Aug 19 08:41:34 2002



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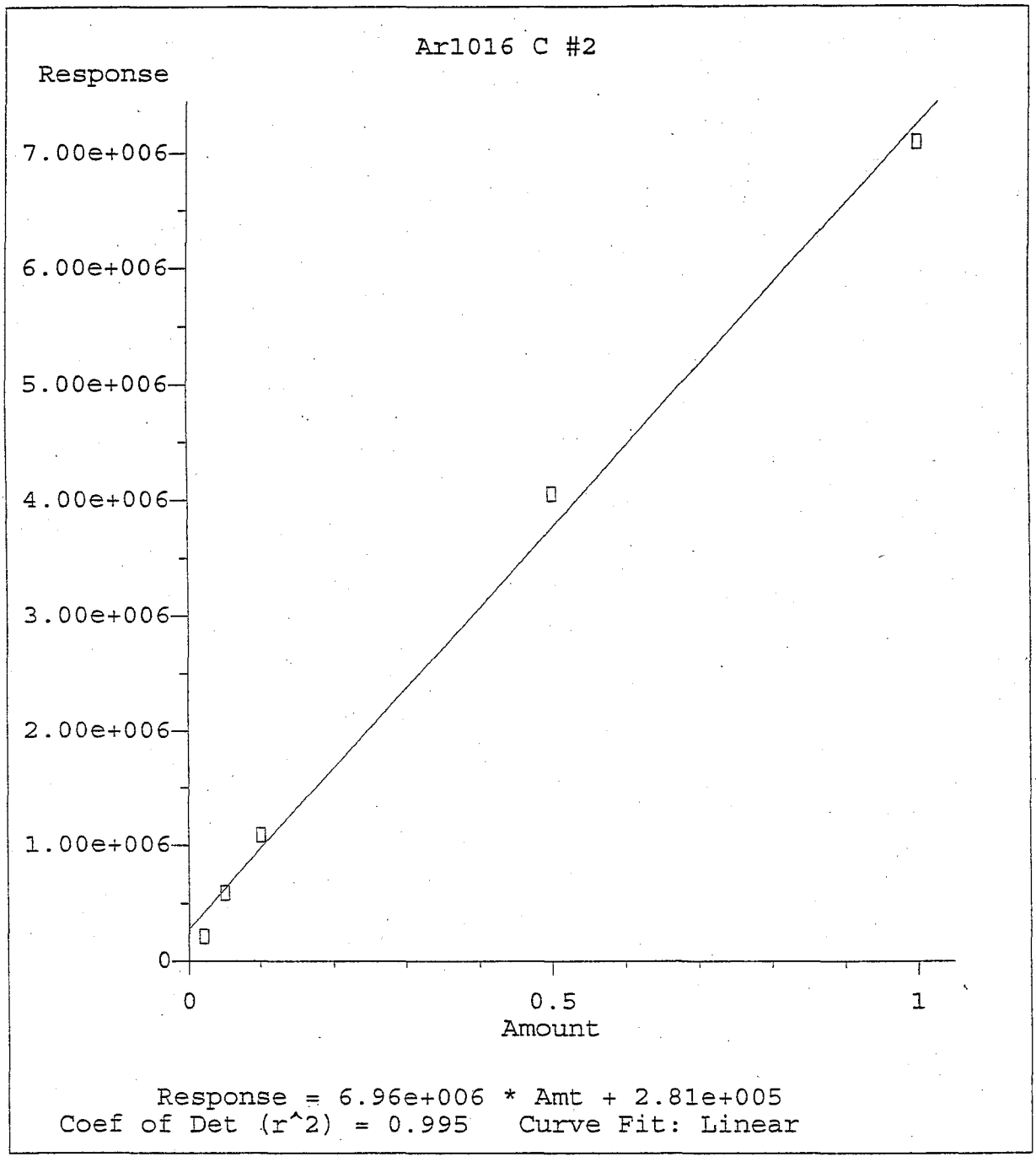
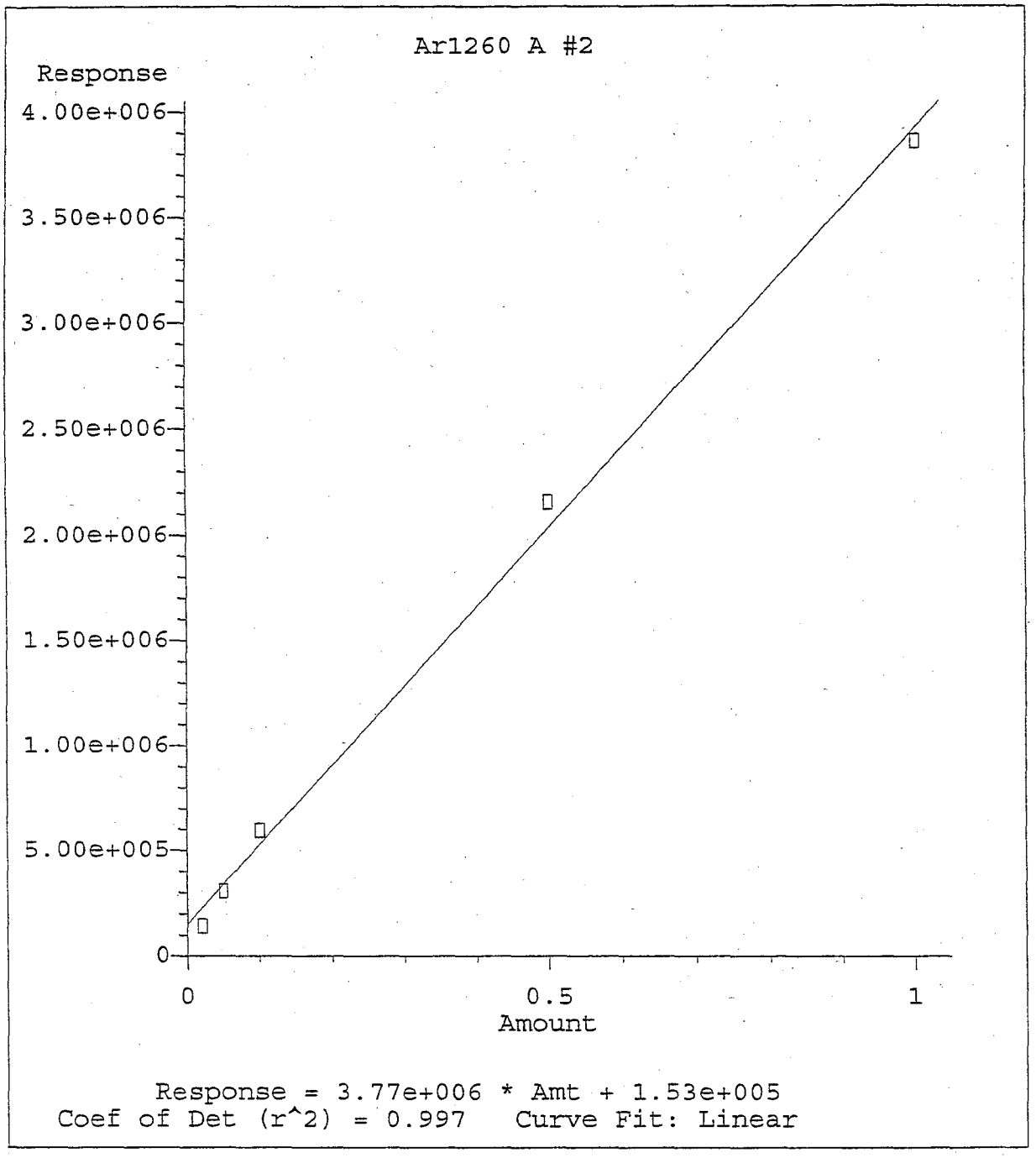
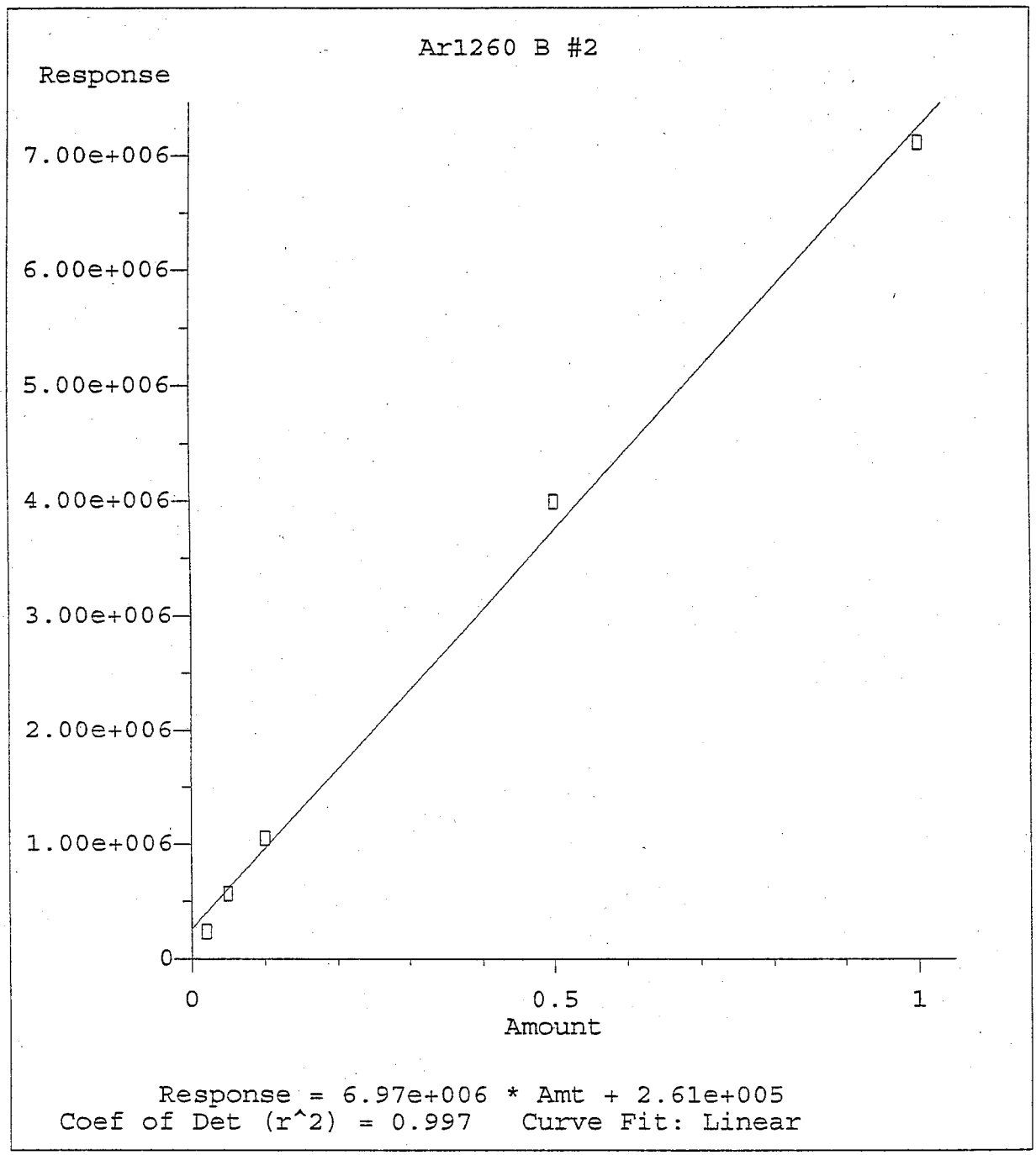
Calibration Table Last Updated: Mon Aug 19 08:41:34 2002



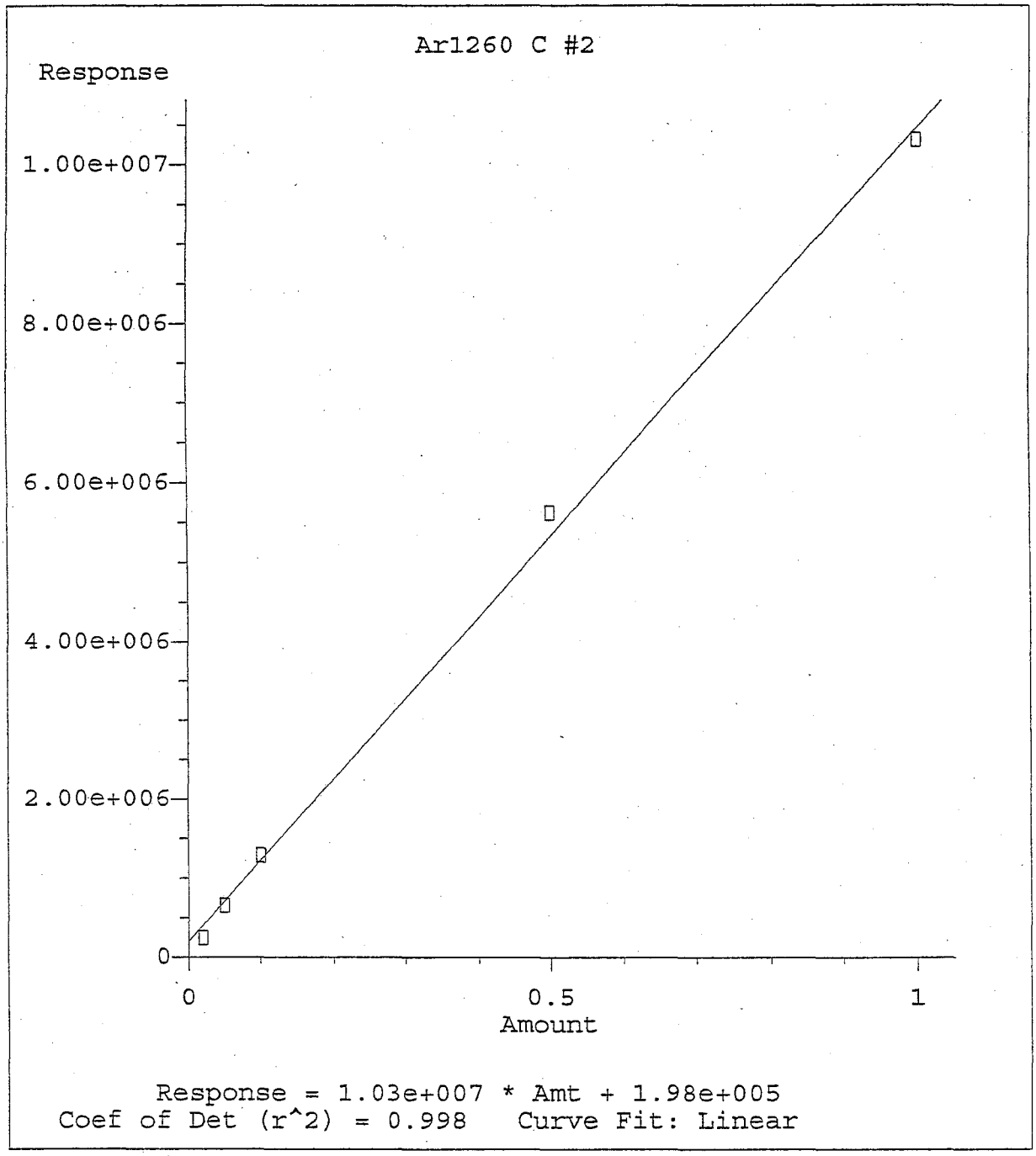
Method Name: D:\HPCHEM\2\METHODS\PBQ8092.M
Calibration Table Last Updated: Mon Aug 19 08:41:34 2002



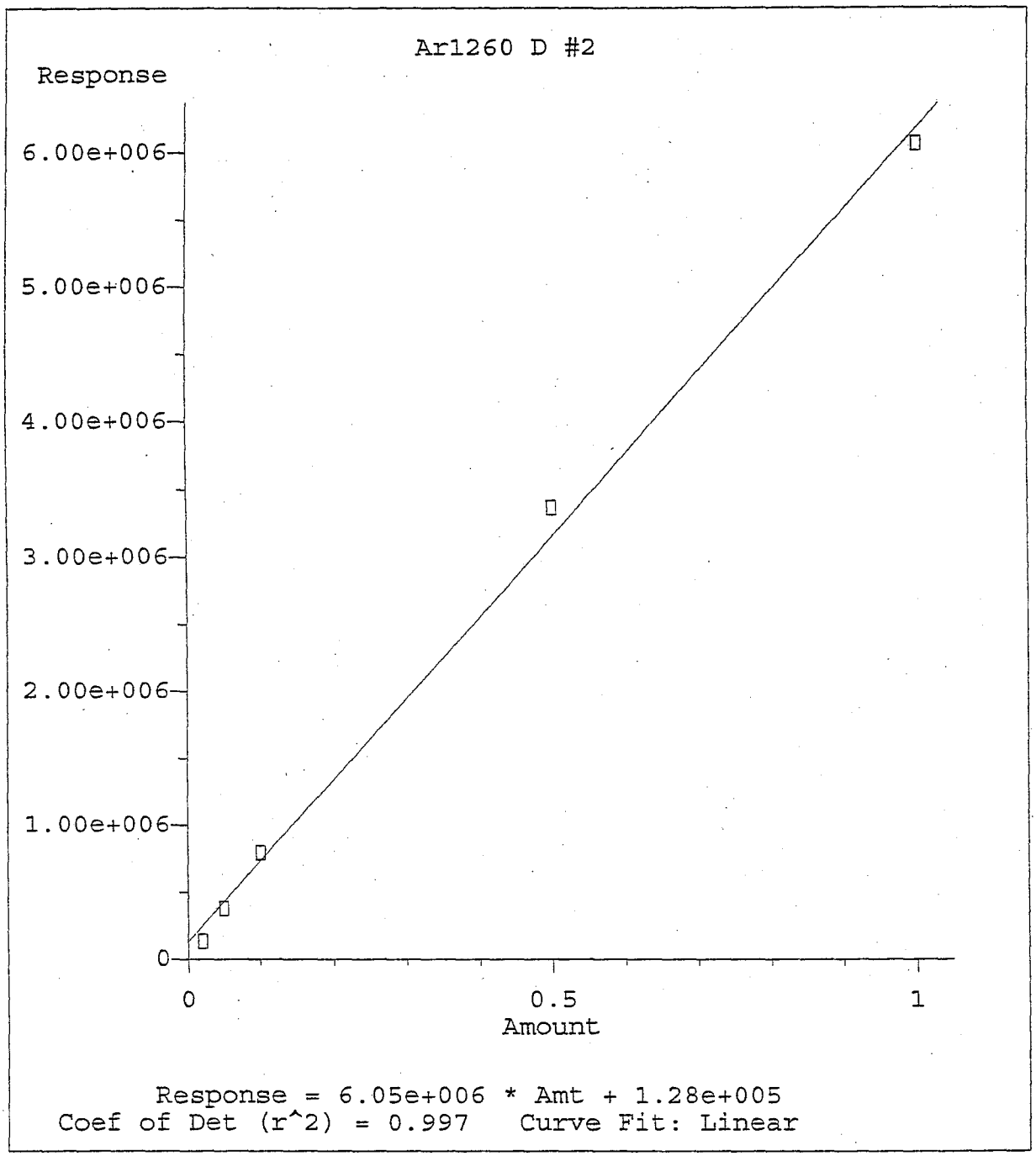
Method Name: D:\HPCHEM\2\METHODS\PBQ8092.M
Calibration Table Last Updated: Mon Aug 19 08:41:34 2002



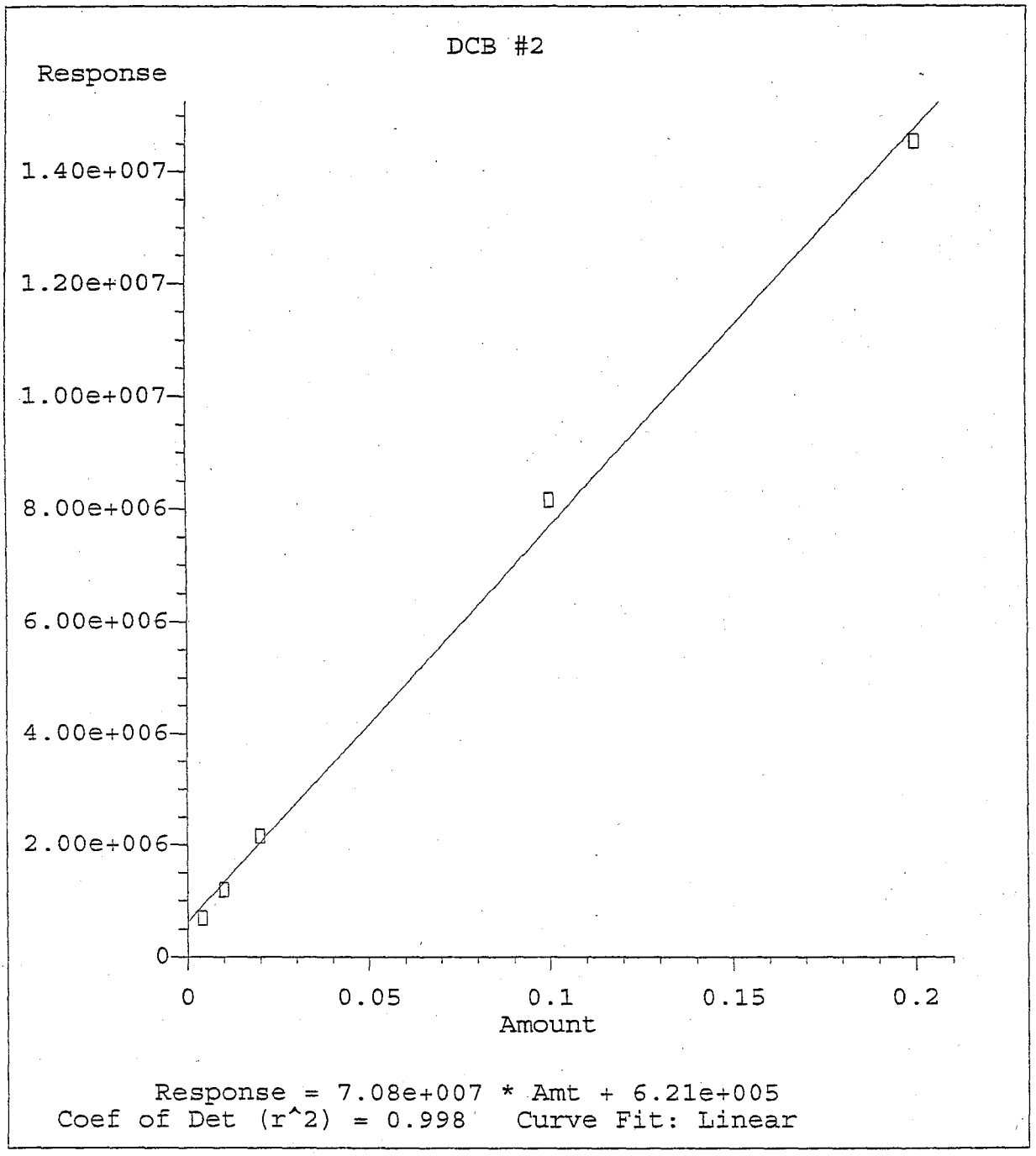
Method Name: D:\HPCHEM\2\METHODS\PBQ8092.M
Calibration Table Last Updated: Mon Aug 19 08:41:34 2002



Method Name: D:\HPCHEM\2\METHODS\PBQ8092.M
Calibration Table Last Updated: Mon Aug 19 08:41:34 2002



Method Name: D:\HPCHEM\2\METHODS\PBQ8092.M
Calibration Table Last Updated: Mon Aug 19 08:41:34 2002



Method Name: D:\HPCHEM\2\METHODS\PBQ8092.M
Calibration Table Last Updated: Mon Aug 19 08:41:34 2002

Quantitation Report (QT Reviewed)

Signal #1 : D:\HPCHEM\2\DATA\080902-F\F26114.D\ECD1A.CH Vial: 1
Signal #2 : D:\HPCHEM\2\DATA\080902-F\F26114.D\ECD2B.CH
Acq On : 9 Aug 2002 3:49 pm Operator:
Sample : P2692 16/60 0.02 Inst : Instrume
Misc : SOIL Multiplr: 1.00
IntFile Signal #1: PCBINT.E IntFile Signal #2: PCBINT2.E
Quant Time: Aug 12 13:18 2002 Quant Results File: PBQ8092.RES

Quant Method : D:\HPCHEM\2\METHODS\PBQ8092.M (Chemstation Integrator)
Title : Aroclor 1016/1260
Last Update : Mon Aug 12 13:13:18 2002
Response via : Initial Calibration
DataAcq Meth : PCB.M

8.12.02

Volume Inj. : 3 ul
Signal #1 Phase : DB-1701 Widebore Signal #2 Phase: DB-5 Widebore
Signal #1 Info : 0.53 mm , 1.0um f Signal #2 Info : 0.53 mm, 1.5um fil

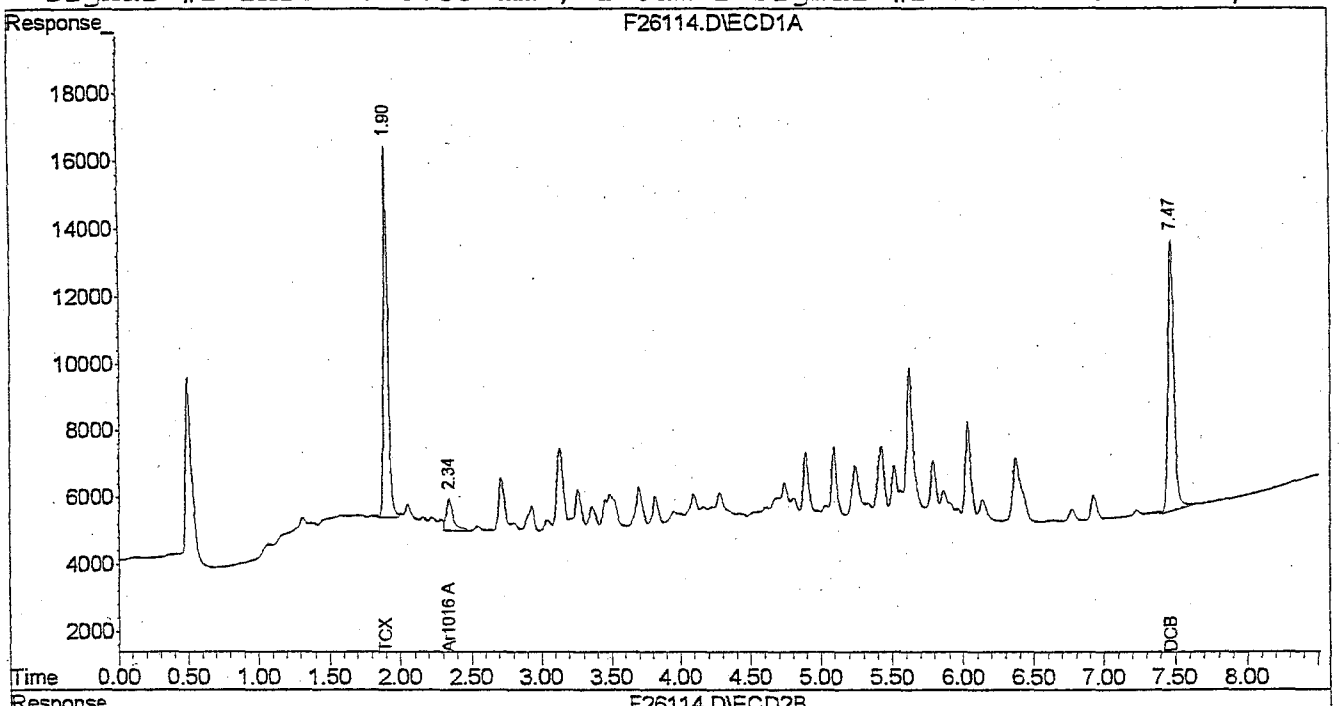
Compound	RT#1	RT#2	Resp#1	Resp#2	ug/ml	ug/ml
System Monitoring Compounds						
1) S TCX	1.90	1.56	232732	521528	0.002m	0.003 #
Spiked Amount	0.100	Range	49 - 134	Recovery	= 2.00%#	3.00%#
9) S DCB	7.47	6.39	231178	691145	0.002m	0.004 #
Spiked Amount	0.100	Range	69 - 155	Recovery	= 2.00%#	4.00%#
Target Compounds						
2) L1 Ar1016 A	2.34	1.82	32315	150562	0.003	0.030m#
3) L1 Ar1016 B	2.71	2.10	45418	111288	N.D.	N.D. m
4) L1 Ar1016 C	3.13	2.47	73920	212558	N.D.	N.D. m
Sum Ar1016 A			32315	150562	N.D.	0.007
Average Ar1016 A					-0.017	0.007
5) L2 Ar1260 A	4.89	4.01	46816	141942	N.D.	N.D. m
6) L2 Ar1260 B	5.09	4.26	52853	236366	N.D.	N.D.
7) L2 Ar1260 C	5.42	5.13	70535	249533	N.D.	N.D.
8) L2 Ar1260 D	6.03	5.38	82331	133774	N.D.	N.D. m
Sum Ar1260 A			0	0	N.D.	N.D.
Average Ar1260 A					0.000	0.000

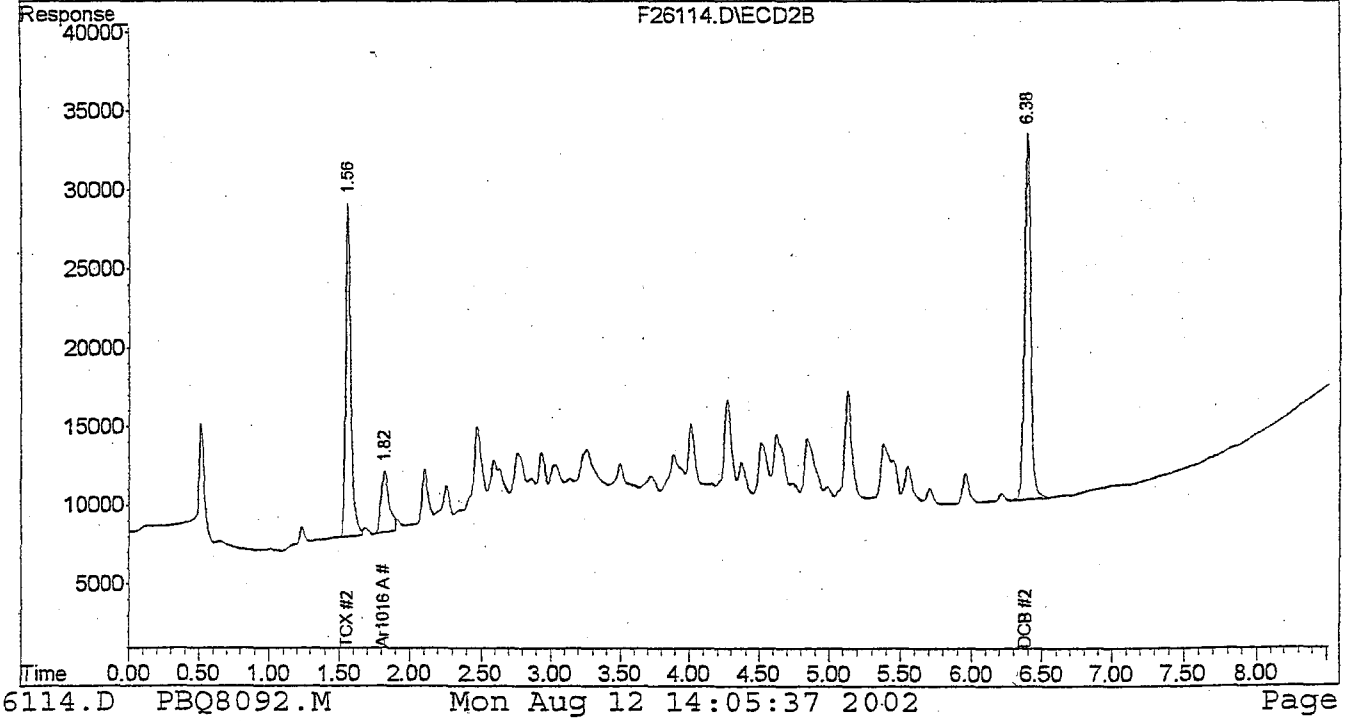
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Signal #1 : D:\HPCHEM\2\DATA\080902-F\F26114.D\ECD1A.CH Vial: 1
Signal #2 : D:\HPCHEM\2\DATA\080902-F\F26114.D\ECD2B.CH
Acq On : 9 Aug 2002 3:49 pm Operator:
Sample : P2692 16/60 0.02 Inst : Instrume
Misc : SOIL Multiplr: 1.00
IntFile Signal #1: PCBINT.E IntFile Signal #2: PCBINT2.E
Quant Time: Aug 12 13:18 2002 Quant Results File: PBQ8092.RES

Quant Method : D:\HPCHEM\2\METHODS\PBQ8092.M (Chemstation Integrator)
Title : Aroclor 1016/1260
Last Update : Mon Aug 12 13:13:18 2002
Response via : Multiple Level Calibration
DataAcq Meth : PCB.M

Volume Inj. : 3 ul
Signal #1 Phase : DB-1701 Widebore Signal #2 Phase: DB-5 Widebore
Signal #1 Info : 0.53 mm , 1.0um f Signal #2 Info : 0.53 mm, 1.5um fil





Signal #1 : D:\HPCHEM\2\DATA\080902-F\F26115.D\ECD1A.CH Vial: 2
Signal #2 : D:\HPCHEM\2\DATA\080902-F\F26115.D\ECD2B.CH
Acq On : 9 Aug 2002 4:01 pm Operator:
Sample : P2693 16/60 0.05 Inst : Instrume
Misc : SOIL Multiplr: 1.00
IntFile Signal #1: PCBINT.E IntFile Signal #2: PCBINT2.E
Quant Time: Aug 12 13:18 2002 Quant Results File: PBQ8092.RES

Quant Method : D:\HPCHEM\2\METHODS\PBQ8092.M (Chemstation Integrator)
Title : Aroclor 1016/1260
Last Update : Mon Aug 12 13:13:18 2002
Response via : Initial Calibration
DataAcq Meth : PCB.M

8-12-02

Volume Inj. : 3 ul
Signal #1 Phase : DB-1701 Widebore Signal #2 Phase: DB-5 Widebore
Signal #1 Info : 0.53 mm , 1.0um f Signal #2 Info : 0.53 mm, 1.5um fil

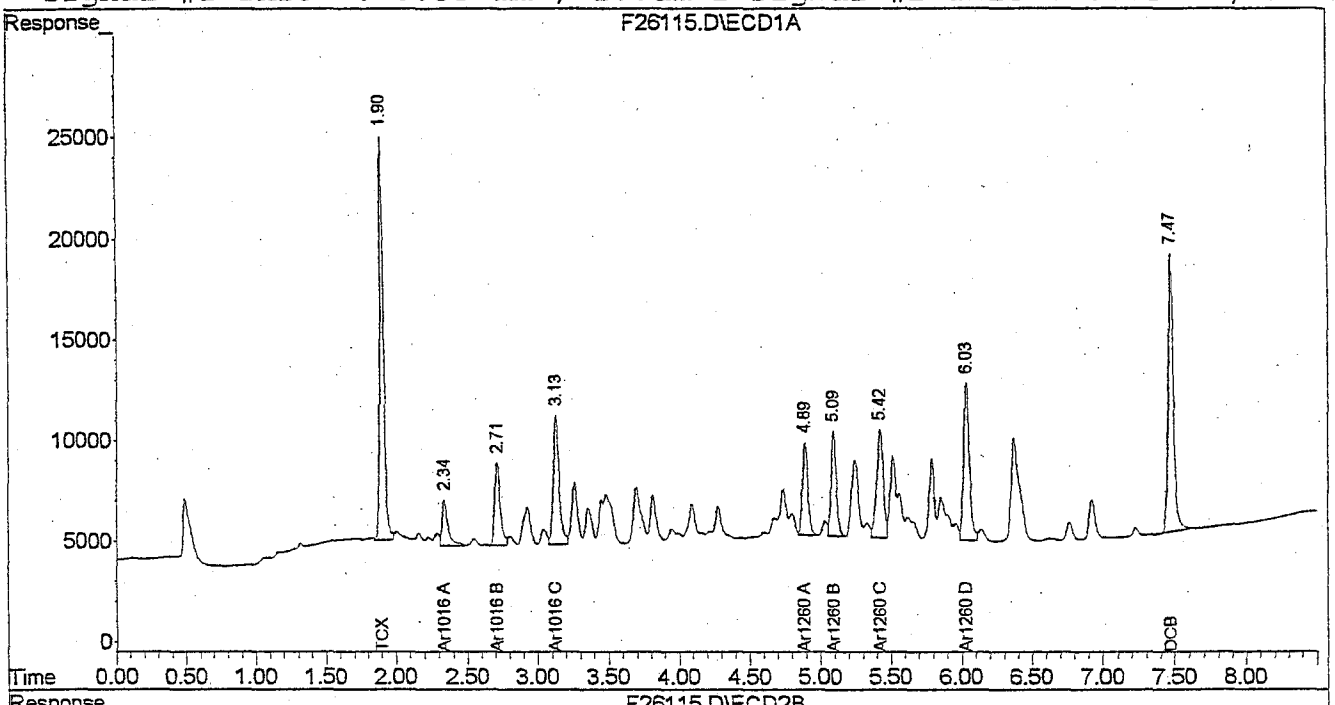
Compound	RT#1	RT#2	Resp#1	Resp#2	ug/ml	ug/ml
System Monitoring Compounds						
1) S TCX	1.90	1.56	412178	911635	0.008m	0.010
Spiked Amount	0.100	Range	49 - 134	Recovery	= 8.00%#	10.00%#
9) S DCB	7.47	6.39	381659	1192312	0.008	0.012 #
Spiked Amount	0.100	Range	69 - 155	Recovery	= 8.00%#	12.00%#
Target Compounds						
2) L1 Ar1016 A	2.34	1.83	69131	172007	0.050	0.041
3) L1 Ar1016 B	2.71	2.10	114478	278479	0.032	0.046 #
4) L1 Ar1016 C	3.13	2.47	191256	584549	0.035	0.050 #
Sum Ar1016 A			374866	1035035	0.116	0.138
Average Ar1016 A					0.039	0.046
5) L2 Ar1260 A	4.89	4.01	120977	306946	0.024	0.049m#
6) L2 Ar1260 B	5.09	4.26	140307	564690	0.027	0.045 #
7) L2 Ar1260 C	5.42	5.13	174517	654748	0.030	0.044 #
8) L2 Ar1260 D	6.03	5.38	220944	376908	0.030	0.040m#
Sum Ar1260 A			656745	1903292	0.111	0.178
Average Ar1260 A					0.028	0.044

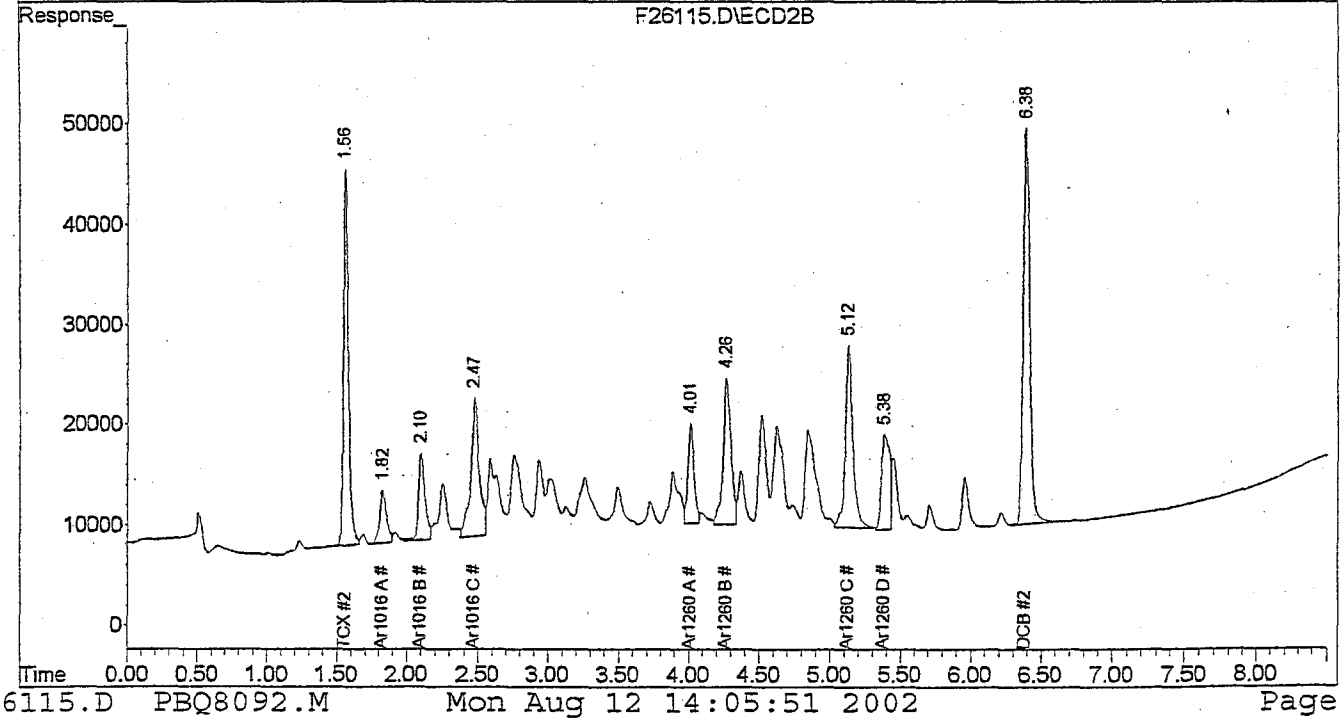
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Signal #1 : D:\HPCHEM\2\DATA\080902-F\F26115.D\ECD1A.CH Vial: 2
Signal #2 : D:\HPCHEM\2\DATA\080902-F\F26115.D\ECD2B.CH
Acq On : 9 Aug 2002 4:01 pm Operator:
Sample : P2693 16/60 0.05 Inst : Instrume
Misc : SOIL Multiplr: 1.00
IntFile Signal #1: PCBINT.E IntFile Signal #2: PCBINT2.E
Quant Time: Aug 12 13:18 2002 Quant Results File: PBQ8092.RES

Quant Method : D:\HPCHEM\2\METHODS\PBQ8092.M (Chemstation Integrator)
Title : Aroclor 1016/1260
Last Update : Mon Aug 12 13:13:18 2002
Response via : Multiple Level Calibration
DataAcq Meth : PCB.M

Volume Inj. : 3 ul
Signal #1 Phase : DB-1701 Widebore Signal #2 Phase: DB-5 Widebore
Signal #1 Info : 0.53 mm , 1.0um f Signal #2 Info : 0.53 mm, 1.5um fil





Signal #1 : D:\HPCHEM\2\DATA\080902-F\F26116.D\ECD1A.CH Vial: 3
Signal #2 : D:\HPCHEM\2\DATA\080902-F\F26116.D\ECD2B.CH
Acq On : 9 Aug 2002 4:13 pm Operator:
Sample : P2694 16/60 0.1 Inst : Instrume
Misc : SOIL Multiplr: 1.00
IntFile Signal #1: PCBINT.E IntFile Signal #2: PCBINT2.E
Quant Time: Aug 12 13:18 2002 Quant Results File: PBQ8092.RES

Quant Method : D:\HPCHEM\2\METHODS\PBQ8092.M (Chemstation Integrator)
Title : Aroclor 1016/1260
Last Update : Mon Aug 12 13:13:18 2002
Response via : Initial Calibration
DataAcq Meth : PCB.M

8-12-02

Volume Inj. : 3 ul
Signal #1 Phase : DB-1701 Widebore Signal #2 Phase: DB-5 Widebore
Signal #1 Info : 0.53 mm , 1.0um f Signal #2 Info : 0.53 mm, 1.5um fil

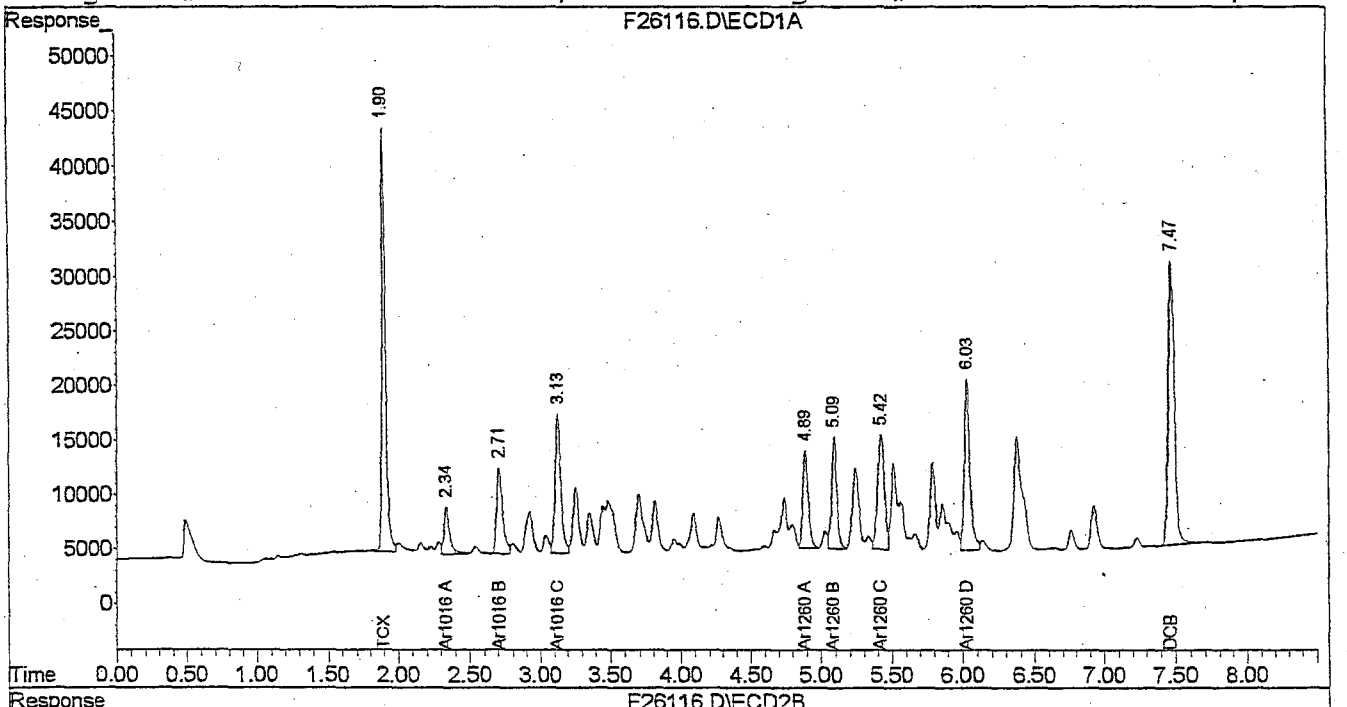
Compound	RT#1	RT#2	Resp#1	Resp#2	ug/ml	ug/ml
System Monitoring Compounds						
1) S TCX	1.90	1.56	803294	1805928	0.022m	0.025
Spiked Amount	0.100	Range	49 - 134	Recovery	= 22.00%#	25.00%#
9) S DCB	7.47	6.39	723707	2154467	0.022	0.029 #
Spiked Amount	0.100	Range	69 - 155	Recovery	= 22.00%#	29.00%#
Target Compounds						
2) L1 Ar1016 A	2.34	1.83	127214	335072	0.124	0.122
3) L1 Ar1016 B	2.71	2.10	222383	512355	0.103	0.134 #
4) L1 Ar1016 C	3.13	2.47	378525	1086070	0.100	0.128 #
Sum Ar1016 A			728122	1933497	0.326	0.384
Average Ar1016 A					0.109	0.128
5) L2 Ar1260 A	4.89	4.01	236989	593652	0.087	0.136m#
6) L2 Ar1260 B	5.09	4.26	275841	1049115	0.089	0.122 #
7) L2 Ar1260 C	5.42	5.12	337399	1288851	0.087	0.112 #
8) L2 Ar1260 D	6.03	5.38	442539	795200	0.089	0.114m#
Sum Ar1260 A			1292768	3726818	0.352	0.484
Average Ar1260 A					0.088	0.121

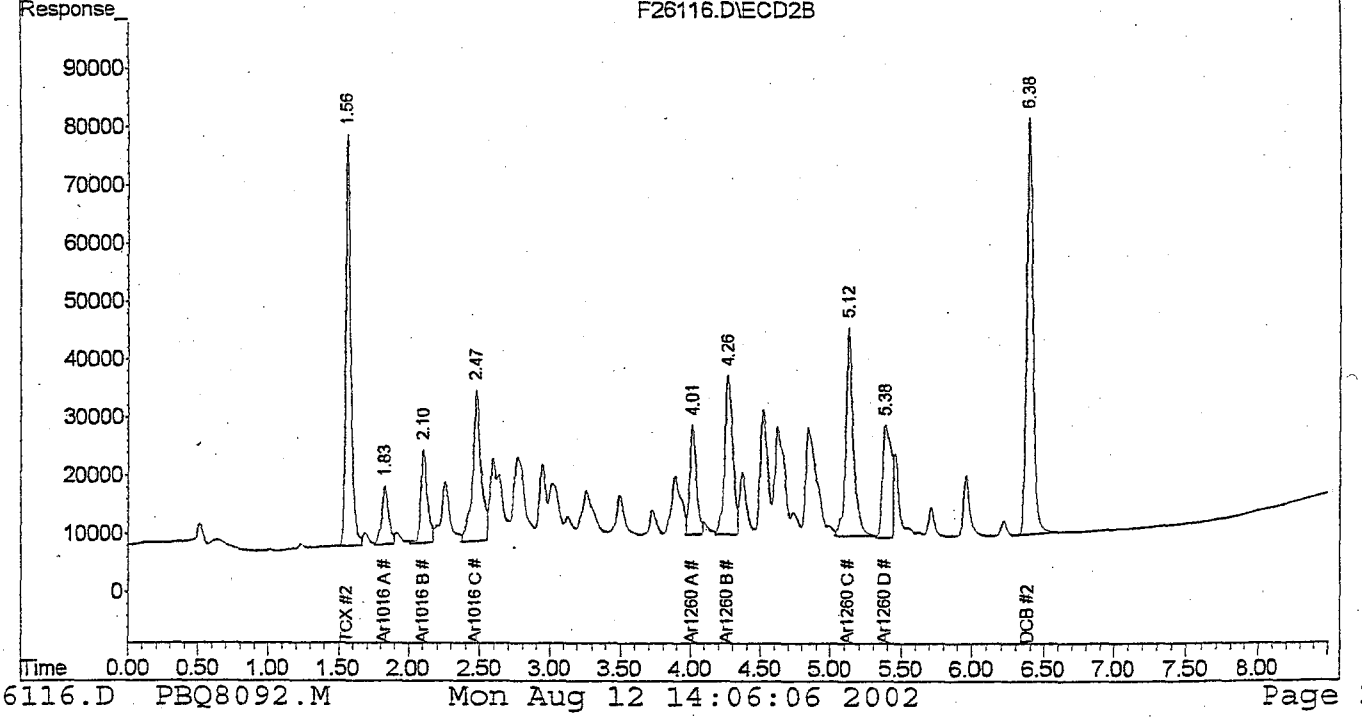
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Signal #1 : D:\HPCHEM\2\DATA\080902-F\F26116.D\ECD1A.CH Vial: 3
Signal #2 : D:\HPCHEM\2\DATA\080902-F\F26116.D\ECD2B.CH
Acq On : 9 Aug 2002 4:13 pm Operator:
Sample : P2694 16/60 0.1 Inst : Instrume
Misc : SOIL Multiplr: 1.00
IntFile Signal #1: PCBINT.E IntFile Signal #2: PCBINT2.E
Quant Time: Aug 12 13:18 2002 Quant Results File: PBQ8092.RES

Quant Method : D:\HPCHEM\2\METHODS\PBQ8092.M (Chemstation Integrator)
Title : Aroclor 1016/1260
Last Update : Mon Aug 12 13:13:18 2002
Response via : Multiple Level Calibration
DataAcq Meth : PCB.M

Volume Inj. : 3 ul
Signal #1 Phase : DB-1701 Widebore Signal #2 Phase: DB-5 Widebore
Signal #1 Info : 0.53 mm , 1.0um f Signal #2 Info : 0.53 mm, 1.5um fil





Signal #1 : D:\HPCHEM\2\DATA\080902-F\F26117.D\ECD1A.CH Vial: 4
Signal #2 : D:\HPCHEM\2\DATA\080902-F\F26117.D\ECD2B.CH
Acq On : 9 Aug 2002 4:24 pm Operator:
Sample : P2695 16/60 0.5 Inst : Instrume
Misc : SOIL Multiplr: 1.00
IntFile Signal #1: PCBINT.E IntFile Signal #2: PCBINT2.E
Quant Time: Aug 12 13:17 2002 Quant Results File: PBQ8092.RES

Quant Method : D:\HPCHEM\2\METHODS\PBQ8092.M (Chemstation Integrator)
Title : Aroclor 1016/1260
Last Update : Mon Aug 12 13:13:18 2002
Response via : Initial Calibration
DataAcq Meth : PCB.M

8-12-02

Volume Inj. : 3 ul
Signal #1 Phase : DB-1701 Widebore Signal #2 Phase: DB-5 Widebore
Signal #1 Info : 0.53 mm , 1.0um f Signal #2 Info : 0.53 mm, 1.5um fil

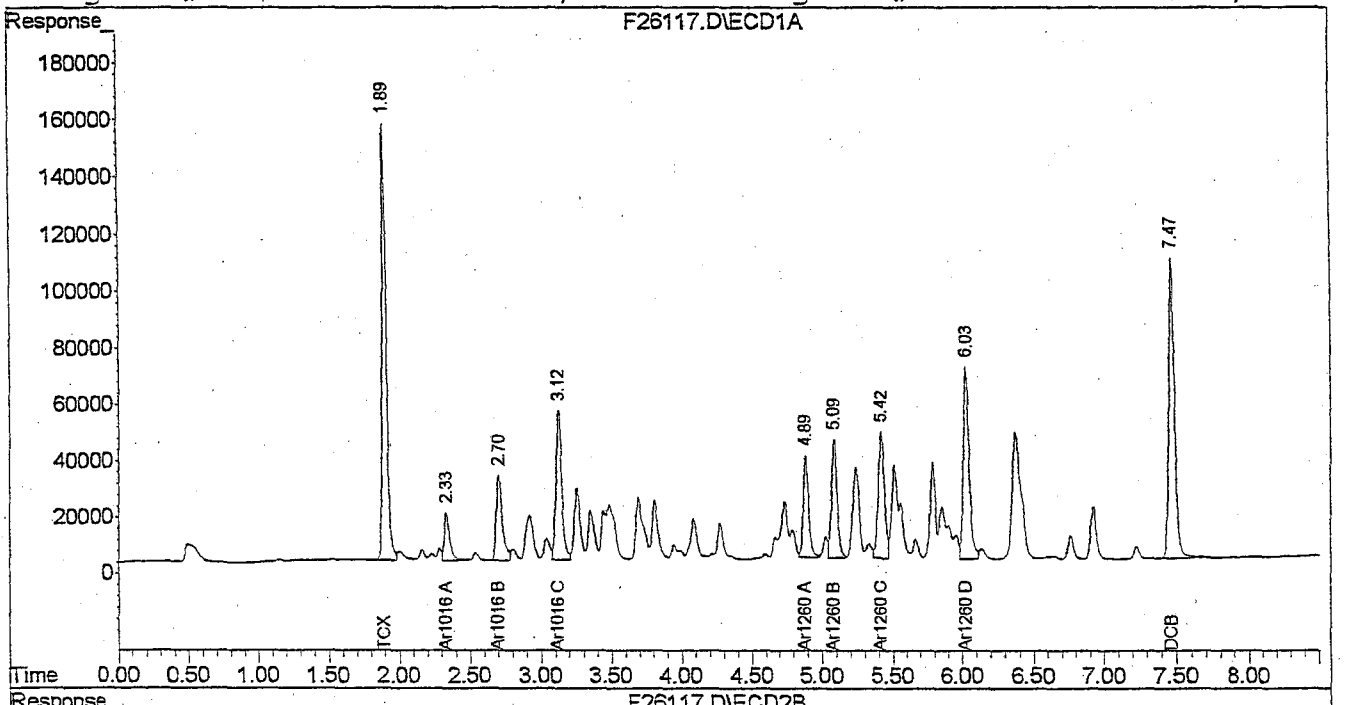
Compound	RT#1	RT#2	Resp#1	Resp#2	ug/ml	ug/ml
System Monitoring Compounds						
1) S TCX	1.90	1.56	3396011	7595967	0.111	0.122
Spiked Amount	0.100	Range	49 - 134	Recovery	= 111.00%	122.00%
9) S DCB	7.47	6.38	2915432	8159223	0.109	0.131
Spiked Amount	0.100	Range	69 - 155	Recovery	= 109.00%	131.00%
Target Compounds						
2) L1 Ar1016 A	2.34	1.83	463250	1265904	0.552	0.584
3) L1 Ar1016 B	2.71	2.10	854814	1763023	0.519	0.606
4) L1 Ar1016 C	3.12	2.47	1565361	4055378	0.508	0.586
Sum Ar1016 A			2883424	7084306	1.579	1.775
Average Ar1016 A					0.526	0.592
5) L2 Ar1260 A	4.89	4.00	953646	2157442	0.474	0.609m#
6) L2 Ar1260 B	5.09	4.26	1117749	3991053	0.479	0.589
7) L2 Ar1260 C	5.42	5.12	1429633	5623289	0.467	0.582
8) L2 Ar1260 D	6.03	5.38	1900157	3370156	0.474	0.568
Sum Ar1260 A			5401185	15141940	1.894	2.348
Average Ar1260 A					0.474	0.587

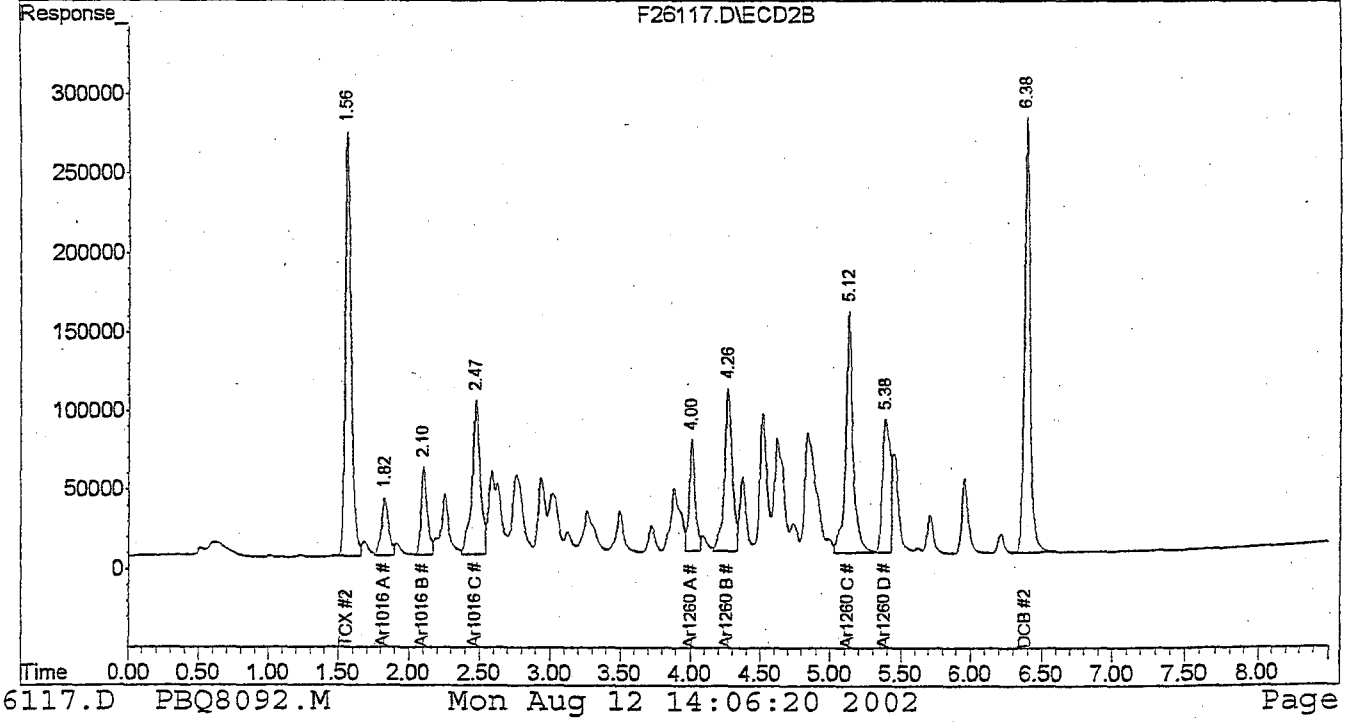
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Signal #1 : D:\HPCHEM\2\DATA\080902-F\F26117.D\ECD1A.CH Vial: 4
Signal #2 : D:\HPCHEM\2\DATA\080902-F\F26117.D\ECD2B.CH
Acq On : 9 Aug 2002 4:24 pm Operator:
Sample : P2695 16/60 0.5 Inst : Instrume
Misc : SOIL Multiplr: 1.00
IntFile Signal #1: PCBINT.E IntFile Signal #2: PCBINT2.E
Quant Time: Aug 12 13:17 2002 Quant Results File: PBQ8092.RES

Quant Method : D:\HPCHEM\2\METHODS\PBQ8092.M (Chemstation Integrator)
Title : Aroclor 1016/1260
Last Update : Mon Aug 12 13:13:18 2002
Response via : Multiple Level Calibration
DataAcq Meth : PCB.M

Volume Inj. : 3 ul
Signal #1 Phase : DB-1701 Widebore Signal #2 Phase: DB-5 Widebore
Signal #1 Info : 0.53 mm , 1.0um f Signal #2 Info : 0.53 mm, 1.5um fil





Signal #1 : D:\HPCHEM\2\DATA\080902-F\F26118.D\ECD1A.CH Vial: 5
Signal #2 : D:\HPCHEM\2\DATA\080902-F\F26118.D\ECD2B.CH
Acq On : 9 Aug 2002 4:36 pm Operator:
Sample : P2696 16/60 1.0 Inst : Instrume
Misc : SOIL Multiplr: 1.00
IntFile Signal #1: PCBINT.E IntFile Signal #2: PCBINT2.E
Quant Time: Aug 12 13:21 2002 Quant Results File: PBQ8092.RES

Quant Method : D:\HPCHEM\2\METHODS\PBQ8092.M (Chemstation Integrator)
Title : Aroclor 1016/1260
Last Update : Mon Aug 12 13:18:55 2002
Response via : Initial Calibration
DataAcq Meth : PCB.M

8-12-02

Volume Inj. : 3 ul
Signal #1 Phase : DB-1701 Widebore Signal #2 Phase: DB-5 Widebore
Signal #1 Info : 0.53 mm , 1.0um f Signal #2 Info : 0.53 mm, 1.5um fil

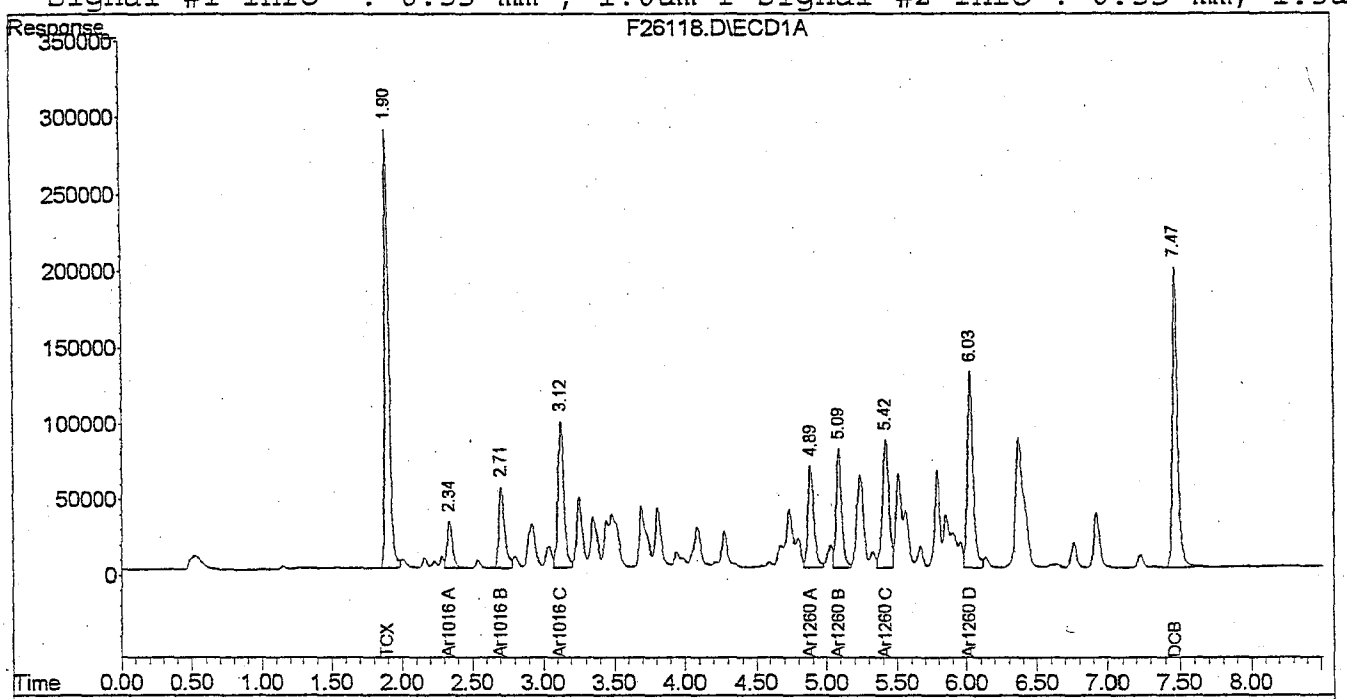
Compound	RT#1	RT#2	Resp#1	Resp#2	ug/ml	ug/ml
System Monitoring Compounds						
1) S TCX	1.90	1.56	6075708	13629609	0.196	0.197
Spiked Amount 0.100	Range	49 - 134	Recovery	=	196.00%#	197.00%#
9) S DCB	7.47	6.38	5332966	14539792	0.198	0.197
Spiked Amount 0.100	Range	69 - 155	Recovery	=	198.00%#	197.00%#
Target Compounds						
2) L1 Ar1016 A	2.34	1.83	802478	2224774	0.978	0.982
3) L1 Ar1016 B	2.71	2.10	1498302	2982429	0.978	0.973
4) L1 Ar1016 C	3.13	2.47	2828102	7091883	0.981	0.978
Sum Ar1016 A			5128882	12299085	2.937	2.933
Average Ar1016 A					0.979	0.978
5) L2 Ar1260 A	4.89	4.01	1816436	3859537	1.042	1.005
6) L2 Ar1260 B	5.09	4.26	2097980	7108995	1.023	0.997
7) L2 Ar1260 C	5.42	5.12	2701099	10313390	1.008	0.993
8) L2 Ar1260 D	6.03	5.38	3575584	6068807	0.995	0.986
Sum Ar1260 A			10191099	27350729	4.068	3.981
Average Ar1260 A					1.017	0.995

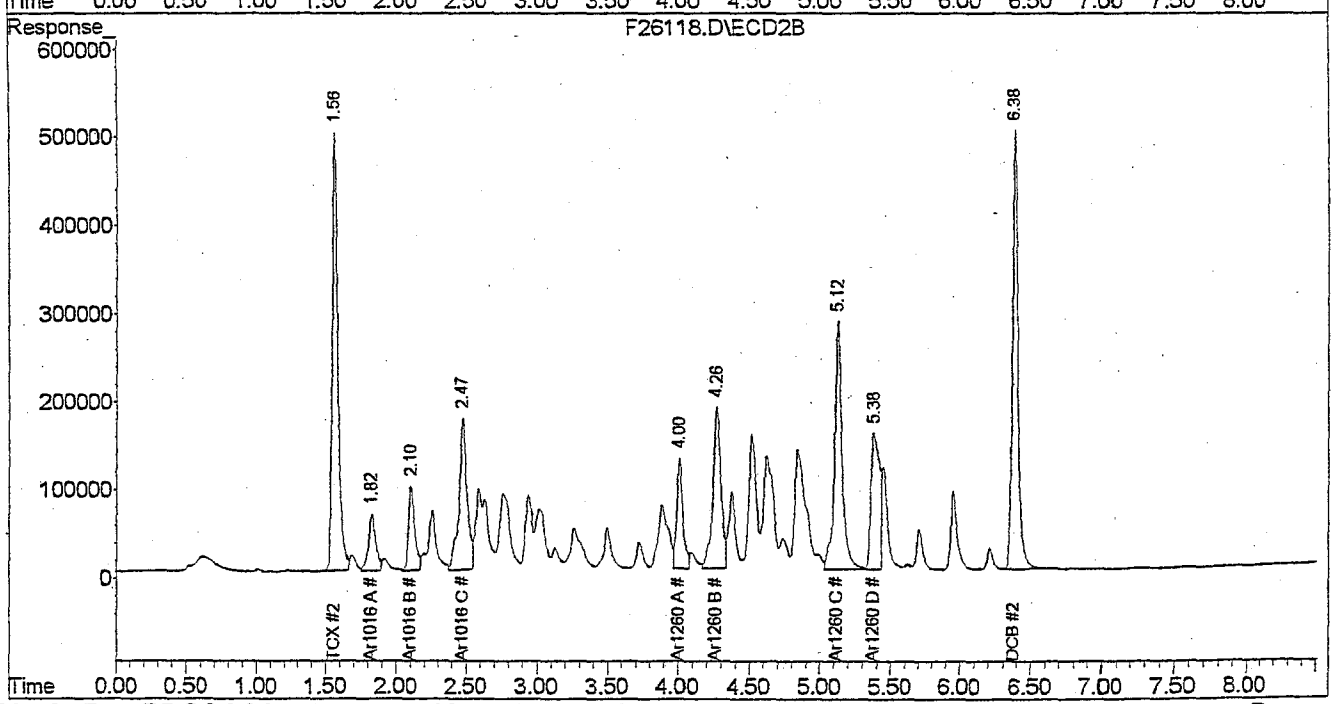
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Signal #1 : D:\HPCHEM\2\DATA\080902-F\F26118.D\ECD1A.CH Vial: 5
Signal #2 : D:\HPCHEM\2\DATA\080902-F\F26118.D\ECD2B.CH
Acq On : 9 Aug 2002 4:36 pm Operator:
Sample : P2696 16/60 1.0 Inst : Instrume
Misc : SOIL Multiplr: 1.00
IntFile Signal #1: PCBINT.E IntFile Signal #2: PCBINT2.E
Quant Time: Aug 12 13:21 2002 Quant Results File: PBQ8092.RES

Quant Method : D:\HPCHEM\2\METHODS\PBQ8092.M (Chemstation Integrator)
Title : Aroclor 1016/1260
Last Update : Mon Aug 12 13:18:55 2002
Response via : Multiple Level Calibration
DataAcq Meth : PCB.M

Volume Inj. : 3 ul
Signal #1 Phase : DB-1701 Widebore Signal #2 Phase: DB-5 Widebore
Signal #1 Info : 0.53 mm , 1.0um f Signal #2 Info : 0.53 mm, 1.5um fil





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7A
PCB CONTINUING CALIBRATION CHECK

Site ID: Topsham, ME

Project No.: CTO 03 GC Column #1: RTX-CLP Pesticides I Data Package ID: 48137

Instrument ID: F GC Column #2 : RTX-CLP Pesticides II ID: 0.53 mm

File #: F26597 Cal. Check Date: 8/26/02 10:02

COMPOUND	True Value (ug/mL)	Measured Value (ug/mL)	% Recovery	Limits %R	Total Out
PCB 1016	0.50	0.546	109	85-115	0
PCB1260	0.50	0.536	107	85-115	0
PCB 1016#2	0.50	0.506	101	85-115	0
PCB 1260 #2	0.50	0.515	103	85-115	0

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7A
PCB CONTINUING CALIBRATION CHECK

Site ID: Topsham, ME

Project No.: CTO 03 GC Column #1: RTX-CLP Pesticides I Data Package ID: 48137

Instrument ID: F GC Column #2 : RTX-CLP Pesticides II ID: 0.53 mm

File #: F26623 Cal. Check Date: 8/26/02 15:23

COMPOUND	True Value (ug/mL)	Measured Value (ug/mL)	% Recovery	Limits %R	Total Out
PCB 1016	0.50	0.557	111	85-115	0
PCB1260	0.50	0.544	109	85-115	0
PCB 1016#2	0.50	0.533	107	85-115	0
PCB 1260 #2	0.50	0.507	101	85-115	0

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7A
PCB CONTINUING CALIBRATION CHECK

Site ID: Topsham, ME

Project No.: CTO 03 GC Column #1: RTX-CLP Pesticides I Data Package ID: 48137

Instrument ID: F GC Column #2 : RTX-CLP Pesticides II ID: 0.53 mm

File #: F26645 Cal. Check Date: 8/26/02 19:36

COMPOUND	True Value (ug/mL)	Measured Value (ug/mL)	% Recovery	Limits %R	Total Out
PCB 1016	0.50	0.549	110	85-115	0
PCB1260	0.50	0.543	109	85-115	0
PCB 1016#2	0.50	0.526	105	85-115	0
PCB 1260 #2	0.50	0.500	100	85-115	0

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7A

PCB CONTINUING CALIBRATION CHECK

Site ID: Topsham, ME

Project No.: CTO 03 GC Column #1: RTX-CLP Pesticides I Data Package ID: 48137

Instrument ID: F GC Column #2 : RTX-CLP Pesticides II ID: 0.53 mm

File #: F26662 Cal. Check Date: 8/26/02 22:53

COMPOUND	True Value (ug/mL)	Measured Value (ug/mL)	% Recovery	Limits %R	Total Out
PCB 1016	0.50	0.539	108	85-115	0
PCB1260	0.50	0.528	106	85-115	0
PCB 1016#2	0.50	0.548	110	85-115	0
PCB 1260 #2	0.50	0.472	94	85-115	0

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7A
PCB CONTINUING CALIBRATION CHECK

Site ID: Topsham, ME

Project No.: CTO 03 GC Column #1: RTX-CLP Pesticides I Data Package ID: 48137

Instrument ID: F GC Column #2 : RTX-CLP Pesticides II ID: 0.53 mm

File #: F26669 Cal. Check Date: 8/27/02 9:52

COMPOUND	True Value (ug/mL)	Measured Value (ug/mL)	% Recovery	Limits %R	Total Out
PCB 1016	0.50	0.540	108	85-115	0
PCB1260	0.50	0.533	107	85-115	0
PCB 1016#2	0.50	0.571	114	85-115	0
PCB 1260 #2	0.50	0.498	100	85-115	0

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PCB SOIL
SYSTEM MONITORING COMPOUND RETENTION TIME SUMMARY

Quote#: SDG: 48137

Project No: CTO 03 Site ID: BNAS Bldg 335 PCB C/U Location: Topsham, ME

GC Columns: RTX-CLPesticidesI ID: 0.53(mm)
RTX-CLPesticidesII

Instrument ID: E

Date Analyzed: 8/9/02
Lab File ID (Standard) : F26117 Time Analyzed: 16:24

	COLUMN #1		COLUMN #1	
	SMC1	SMC 2	SMC1	SMC 2
PESTICIDE STANDARD	1.90	7.48	1.56	6.39
UPPER LIMIT	1.93	7.52	1.59	6.43
LOWER LIMIT	1.87	7.44	1.53	6.35

	SAMPLE ID	LAB FILE ID	DATE	TIME	COLUMN #1 SMC1	#	COLUMN #1 SMC 2	#	COLUMN #2 SMC1	#	COLUMN #2 SMC 2	#
01	ZZZZZ	F26113.D	08/09/02	15:37	1.90		7.48		1.56		6.39	
02	P2692 16/60 0.02	F26114.D	08/09/02	15:49	1.90		7.47		1.56		6.39	
03	P2693 16/60 0.05	F26115.D	08/09/02	16:01	1.90		7.47		1.56		6.39	
04	P2694 16/60 0.1	F26116.D	08/09/02	16:13	1.90		7.47		1.56		6.39	
05	P2695 16/60 0.5	F26117.D	08/09/02	16:24	1.90		7.47		1.56		6.38	
06	P2696 16/60 1.0	F26118.D	08/09/02	16:36	1.90		7.47		1.56		6.38	
07	ZZZZZ	F26119.D	08/09/02	16:47	1.89		7.47		1.54		6.38	
08	P2677 1221 1.0	F26120.D	08/09/02	16:59	NA		NA		NA		NA	
09	P2678 1232 1.0	F26121.D	08/09/02	17:10	NA		NA		NA		NA	
10	P2679 1242 1.0	F26122.D	08/09/02	17:22	NA		NA		NA		NA	
11	P2682 1248 1.0	F26123.D	08/09/02	17:33	NA		NA		NA		NA	
12	P2680 1254 1.0	F26124.D	08/09/02	17:45	NA		NA		NA		NA	
13	ZZZZZ	F26125.D	08/09/02	17:56	1.89		7.46		1.55		6.38	
14	ZZZZZ	F26126.D	08/09/02	18:10	1.79	*	7.38	*	0.00	*	6.45	*
15	ZZZZZ	F26126A.D	08/09/02	19:41	1.92		7.49		1.57		6.40	
16	ZZZZZ	F26127.D	08/09/02	19:52	1.91		7.48		1.57		6.39	
17	ZZZZZ	F26128.D	08/09/02	20:04	1.90		7.48		1.57		6.39	
18	ZZZZZ	F26129.D	08/09/02	20:16	1.90		7.47		1.56		6.39	
19	ZZZZZ	F26130.D	08/09/02	20:27	1.90		7.47		1.56		6.39	
20	ZZZZZ	F26131.D	08/09/02	20:39	1.90		7.47		1.56		6.39	
21	ZZZZZ	F26132.D	08/09/02	20:50	1.90		7.47		1.56		6.38	
22	ZZZZZ	F26133.D	08/09/02	21:01	1.90		7.47		1.56		6.38	
23	ZZZZZ	F26134.D	08/09/02	21:13	1.90		7.47		1.56		6.38	
24	ZZZZZ	F26135.D	08/09/02	21:24	1.90		7.47		1.56		6.38	
25	ZZZZZ	F26136.D	08/09/02	21:36	1.90		7.47		1.56		6.38	
26	ZZZZZ	F26137.D	08/09/02	21:47	1.90		7.47		1.56		6.38	
27	ZZZZZ	F26138.D	08/09/02	21:59	1.90		7.47		1.56		6.38	
28	ZZZZZ	F26139.D	08/09/02	22:11	1.90		7.47		1.56		6.38	
29	ZZZZZ	F26140.D	08/09/02	22:22	1.90		7.47		1.56		6.38	
30	ZZZZZ	F26141.D	08/09/02	22:34	1.90		7.47		1.56		6.38	
31	P2695 16/60 0.5	F26142.D	08/09/02	22:46	1.90		7.47		1.56		6.38	
32												
33												
34												
35												

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PCB SOIL
SYSTEM MONITORING COMPOUND RETENTION TIME SUMMARY

Quote#: SDG: 48137

Project No: CTO 03 Site ID: BNAS Bldg 335 PCB C/U Location: Topsham, ME

GC Columns: RTX-CLPesticidesI ID: 0.53(mm)
Instrument ID: E RTX-CLPesticidesII

Date Analyzed: 8/26/02
Lab File ID (Standard) : F26597 Time Analyzed: 10:02

	COLUMN #1		COLUMN #1	
	SMC1	SMC 2	SMC1	SMC 2
PESTICIDE STANDARD	1.95	7.53	1.61	6.44
UPPER LIMIT	1.98	7.57	1.64	6.48
LOWER LIMIT	1.92	7.49	1.58	6.4

	SAMPLE ID	LAB FILE ID	DATE	TIME	COLUMN #1 SMC1	#	COLUMN #1 SMC 2	#	COLUMN #2 SMC1	#	COLUMN #2 SMC 2	#
01	P2695 16/60 0.5	F26597.D	08/26/02	10:02	1.95		7.53		1.61		6.44	
02	B08232PAS	F26598.D	08/26/02	10:34	1.97		7.55		1.61		6.45	
03	L08232PASB	F26599.D	08/26/02	10:45	1.96		7.54		1.61		6.44	
04	LD08232PASB	F26600.D	08/26/02	10:57	1.95		7.54		1.61		6.44	
05	ZZZZZ	F26601.D	08/26/02	11:09	1.96		7.53		1.61		6.44	
06	ZZZZZ	F26602.D	08/26/02	11:20	1.95		7.53		1.61		6.44	
07	ZZZZZ	F26603.D	08/26/02	11:32	1.96		7.53		1.61		6.44	
08	ZZZZZ	F26604.D	08/26/02	11:44	1.96		7.53		1.61		6.44	
09	ZZZZZ	F26605.D	08/26/02	11:55	1.95		7.53		1.61		6.44	
10	ZZZZZ	F26606.D	08/26/02	12:07	1.95		7.53		1.61		6.44	
11	48137-8	F26607.D	08/26/02	12:18	1.95		7.53		1.61		6.44	
12	48137-9	F26608.D	08/26/02	12:29	1.95		7.53		1.61		6.44	
13	48137-10	F26609.D	08/26/02	12:41	1.95		7.53		1.61		6.44	
14	ZZZZZ	F26610.D	08/26/02	12:52	1.95		7.53		1.61		6.44	
15	48137-12 A/C	F26611.D	08/26/02	13:04	1.95		7.53		1.61		6.44	
16	48137-13 A/C	F26612.D	08/26/02	13:16	1.96		7.53		1.61		6.44	
17	ZZZZZ	F26613.D	08/26/02	13:27	1.96		7.53		1.61		6.44	
18	48137-15 A/C	F26614.D	08/26/02	13:39	1.95		7.53		1.61		6.44	
19	ZZZZZ	F26615.D	08/26/02	13:50	1.95		7.53		1.61		6.44	
20	48137-17 A/C	F26616.D	08/26/02	14:02	1.96		7.53		1.61		6.44	
21	48137-18 A/C	F26617.D	08/26/02	14:14	1.96		7.53		1.61		6.44	
22	ZZZZZ	F26618.D	08/26/02	14:26	1.96		7.54		1.61		6.44	
23	48137-19,MS A/C	F26619.D	08/26/02	14:37	1.96		7.54		1.61		6.44	
24	48137-19,MSD A/C	F26620.D	08/26/02	14:48	1.95		7.53		1.61		6.44	
25	ZZZZZ	F26621.D	08/26/02	15:00	1.96		7.54		1.61		6.44	
26	ZZZZZ	F26622.D	08/26/02	15:12	1.86	*	0	*	1.6		6.44	
27	P2695 16/60 0.5	F26623.D	08/26/02	15:23	1.95		7.54		1.61		6.44	
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analytics environmental laboratory LLC

PCB SOIL
SYSTEM MONITORING COMPOUND RETENTION TIME SUMMARY

Quote#: SDG: 48137

Project No: CTO 03 Site ID: BNAS Bldg 335 PCB C/U Location: Topsham, ME

GC Columns: RTX-CLPesticidesI ID: 0.53(mm)
Instrument ID: E RTX-CLPesticidesII

Date Analyzed: 8/26/02
Lab File ID (Standard) : F26623 Time Analyzed: 15:23

	COLUMN #1		COLUMN #1	
	SMC1	SMC 2	SMC1	SMC 2
PESTICIDE STANDARD	1.95	7.54	1.61	6.44
UPPER LIMIT	1.98	7.58	1.64	6.48
LOWER LIMIT	1.92	7.5	1.58	6.4

	SAMPLE ID	LAB FILE ID	DATE	TIME	COLUMN #1 SMC1 #	COLUMN #1 SMC 2 #	COLUMN #2 SMC1 #	COLUMN #2 SMC 2 #
01	P2695 16/60 0.5	F26623.D	08/26/02	15:23	1.95	7.54	1.61	6.44
02	B08232PAS A/C	F26624.D	08/26/02	15:34	1.95	7.53	1.61	6.44
03	L08232PASB A/C	F26625.D	08/26/02	15:46	1.96	7.53	1.61	6.44
04	LD08232PASB A/C	F26626.D	08/26/02	15:58	1.96	7.54	1.61	6.44
05	ZZZZZ	F26627.D	08/26/02	16:10	1.96	7.54	1.61	6.44
06	ZZZZZ	F26628.D	08/26/02	16:21	1.96	7.54	1.62	6.44
07	ZZZZZ	F26629.D	08/26/02	16:33	1.96	7.53	1.62	6.44
08	ZZZZZ	F26630.D	08/26/02	16:44	1.96	7.54	1.62	6.44
09	ZZZZZ	F26631.D	08/26/02	16:56	1.96	7.54	1.62	6.44
10	ZZZZZ	F26632.D	08/26/02	17:07	1.96	7.54	1.62	6.44
11	ZZZZZ	F26633.D	08/26/02	17:18	1.96	7.54	1.62	6.44
12	ZZZZZ	F26634.D	08/26/02	17:30	1.96	7.54	1.61	6.44
13	48137-1 1:5 A/C	F26635.D	08/26/02	17:41	1.96	7.54	1.61	6.44
14	48137-2 1:5 A/C	F26636.D	08/26/02	17:52	1.96	7.54	1.62	6.44
15	48137-4 1:20 A/C	F26637.D	08/26/02	18:04	1.96	7.54	1.62	6.44
16	48137-5 1:1000 A/C	F26638.D	08/26/02	18:15	1.96	7.55	1.61	6.44
17	48137-6 1:10 A/C	F26639.D	08/26/02	18:27	1.96	7.54	1.62	6.44
18	48137-7 1:10 A/C	F26640.D	08/26/02	18:38	1.96	7.54	1.62	6.44
19	48137-11 1:10 A/C	F26641.D	08/26/02	18:50	1.96	7.54	1.62	6.44
20	48137-14 1:10 A/C	F26642.D	08/26/02	19:01	1.96	7.54	1.62	6.44
21	48137-16 1:20 A/C	F26643.D	08/26/02	19:13	1.96	7.54	1.62	6.44
22	48137-19 1:20 A/C	F26644.D	08/26/02	19:24	1.96	7.54	1.62	6.44
23	P2695 16/60 0.5	F26645.D	08/26/02	19:36	1.96	7.54	1.62	6.44
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analytics environmental laboratory LLC

PCB SOIL
SYSTEM MONITORING COMPOUND RETENTION TIME SUMMARY

Quote#: SDG: 48137

Project No: CTO 03 Site ID: BNAS Bldg 335 PCB C/U Location: Topsham, ME

GC Columns: RTX-CLPesticidesI ID: 0.53(mm)
Instrument ID: F RTX-CLPesticidesII

Date Analyzed: 8/26/02
Lab File ID (Standard) : F26646 Time Analyzed: 19:47

	COLUMN #1		COLUMN #1	
	SMC1	SMC 2	SMC1	SMC 2
PESTICIDE STANDARD	1.96	7.53	1.62	6.44
UPPER LIMIT	1.99	7.57	1.65	6.48
LOWER LIMIT	1.93	7.49	1.59	6.4

	SAMPLE ID	LAB FILE ID	DATE	TIME	COLUMN #1 SMC1 #	COLUMN #1 SMC 2 #	COLUMN #2 SMC1 #	COLUMN #2 SMC 2 #
01	P2695 16/60 0.5	F26646.D	08/26/02	19:47	1.96	7.53	1.62	6.44
02	B08262PAS	F26647.D	08/26/02	19:59	1.96	7.53	1.62	6.44
03	L08262PAS	F26648.D	08/26/02	20:11	1.96	7.54	1.62	6.44
04	LD08262PAS	F26649.D	08/26/02	20:22	1.96	7.53	1.62	6.44
05	48137-3	F26650.D	08/26/02	20:34	1.96	7.53	1.62	6.44
06	ZZZZZ	F26651.D	08/26/02	20:45	1.96	7.53	1.61	6.44
07	48137-21	F26652.D	08/26/02	20:57	1.96	7.53	1.61	6.44
08	ZZZZZ	F26653.D	08/26/02	21:08	1.95	7.53	1.61	6.44
09	48137-23	F26654.D	08/26/02	21:20	1.95	7.53	1.61	6.44
10	48137-24	F26655.D	08/26/02	21:32	1.96	7.53	1.62	6.44
11	48137-25	F26656.D	08/26/02	21:43	1.96	7.54	1.61	6.44
12	48137-26	F26657.D	08/26/02	21:55	1.96	7.53	1.61	6.44
13	48137-27	F26658.D	08/26/02	22:07	1.96	7.53	1.62	6.44
14	48137-28	F26659.D	08/26/02	22:18	1.95	7.53	1.61	6.44
15	48137-23, MS	F26660.D	08/26/02	22:30	1.96	7.53	1.61	6.44
16	48137-23, MSD	F26661.D	08/26/02	22:41	1.96	7.54	1.62	6.44
17	P2695 16/60 0.5	F26662.D	08/26/02	22:53	1.96	7.53	1.61	6.44
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analytics environmental laboratory LLC
195 Commerce Way Suite E
Portsmouth, NH 03801
Phone (603) 436-5111
Fax (603) 430-2151

For Analytics Use Only Rev 6/02

Samples were:
1) Shipped or hand-delivered
2) Temp blank °C 4
3) Received in good condition Y or N
4) pH checked by: n/a
5) Labels checked by:

Project#: CTO-03 Proj. Name: BNAS - Bldg 335 PCB 4/2
Company: FOSTER WHEELER ENV. CO.
Contact: DAN SULLIVAN
Address: KITTERY MAINE
Phone: 207-451-9751 PO# Quote #
Sampler (Signature): Rick Goldenl

Matrix Key:
WW=Wastewater
SW=Surfacewater
GW=Groundwater
DW=Drinkingwater
S=Soil/Sludge
O=Oil
E=Extract
X=Other

Container Key
P=plastic G=glass

Station Identification	Sample Date	Sample Time	Analysis	Preservation: Unpres	4oC	HNO3	H2SO4	HCL	Methanol	Other	Matrix	Container number/type		pH	Analytics Sample #
CS-9-BS	8-23	0915	PCB								SOIL				48137-1
CS-6-BS		0925													2
CS-8-BS		0940													3
CS-5-1-BS		0955													4
CS-5-2-BS		1010													5
CS-3-BS		1020													6
CS-2-BS		1030													7
CS-1-BS		1045													8
CS-4-BS		1055													9
CS-7-BS		1112													10
CS-9-ESW		1128													11
CS-9-SSW		1140													12

FAX RESULTS? YES NO
Fax #

Turnaround Request
Standard ☐ Priority ☑
Due Date Due Date 24HR

Comments / Instructions:
SPOKE W/ RICH 8.26.02. COURIER WILL PICK UP 48137-28. MAY DECIPHERED LABEL FOR 48137-24 TO READ 14:25 FOR SAMPLE TIME. RICH CONFIRMED SAMPLE ID and TIME. amb 8.26.02

Page 1 of 3

Received By: Time: 1500 Date: 8-23-02
Received By: Time: Date:
Received By: Time: Date:
Relinquished By Sampler: Rick Goldenl
Relinquished By:
Relinquished By:

✓ 9208/23/02

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Fax (603) 430-2151

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Samples were:
1) Shipped or hand-delivered
2) Temp blank °C 4
3) Received in good condition Y or N
4) pH checked by: n/a
5) Labels checked by:

oject#: CTO-03 Proj. Name: BNAS BLDG 335 PCB C/U
ompany:
ontact:
ddress:
hone: PO# Quote #
ampler (Signature): Rick Goldsmith

Matrix Key:
WW=Wastewater
SW=Surfacewater
GW=Groundwater
DW=Drinkingwater
S=Soil/Sludge
O=Oil
E=Extract
X=Other

Container Key
P=plastic G=glass

Station Identification	Sample Date	Sample Time	Analysis	Preservation: Unpres	4°C	HNO_3	H_2SO_4	HCL	Methanol	Other	Matrix	Container number/type		pH	Analytics Sample #
CS-8-SSW	8/23-02	1155	PCB								Soil				48187-13
CS-7-SSW		1212													14
CS-7-WSW		1226													15
CS-4-WSW		1240													16
CS-1-WSW		1300													17
CS-1-NSW		1315													18
CS-2-NSW		1325													19
CS-3-NSW		1335													20
CS-3-ESW		1348													21
CS-6-ESW		1405													22
CS-7-W-SW-2		1415													23
CS-4-W-SW-2		1425													24

Comments / Instructions:

AX RESULTS? YES NO
ax #

Turnaround Request
andard ☐ Priority ☑
ie Date Due Date 24 Hr

Page 2 of 3

Received By: Rick Goldsmith Time: 1500 Date: 8-23-02
Received By: Time: Date:
Received By: Time: Date:
Relinquished By Sampler: Rick Goldsmith
Relinquished By:
Relinquished By:

147/149

alytics\AEL Documents\AEL COC

Call but-24 qx 08/23/02

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Portsmouth, NH 03801
Phone (603) 436-5111
Fax (603) 430-2151

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Samples were:
1) Shipped or hand-delivered
2) Temp blank °C 4
3) Received in good condition Y or N
4) pH checked by: n/a
5) Labels checked by:

roject#: CTO-03 Proj. Name: BNAS BLDG 335 PCB C/U
ompany:
ontact:
ddress:
hone: PO# Quote #
ampler (Signature): Rich Goldberg

Matrix Key:
WW=Wastewater
SW=Surfacewater
GW=Groundwater
DW=Drinkingwater
S=Soil/Sludge
O=Oil
E=Extract
X=Other

Container Key
P=plastic G=glass

Station Identification	Sample Date	Sample Time	Analysis	Preservation: Unpres	4o C	HNO_3	H_2SO_4	HCL	Methanol	Other	Matrix	Container number/type		pH	Analytics Sample #
CS-1-W-SW-2	8-23-02	1435	PCB								SOIL				48137-25
CS-1-N-SW-2	↓	1445	↓								↓				26
CS-2-N-SW-2		1455													27
CS-3-N-SW-2		1500													28

Comments / Instructions:

FAX RESULTS? YES NO
fax #
Turnaround Request
Standard ☐ Priority ☑
Due Date Due Date 24 Hr

Page 3 of 3

Received By: Time: 1500 Date: 8-23-02
Received By: Time: Date:
Received By: Time: Date:
Relinquished By Sampler: Rich Goldberg
Relinquished By:
Relinquished By:

148/149

analytics\AEL Documents\AEL COC

vallbut-28 a 2 08/23/02

ANALYTICS SAMPLE RECEIPT CHECKLIST

AEL LAB#: 48137 COOLER NUMBER: n/a

CLIENT: FWEC NUMBER OF COOLERS: 1

PROJECT: CTO-03 DATE RECEIVED: 8.23.02

A: PRELIMINARY EXAMINATION: DATE COOLER OPENED: 8.23.02

1. Cooler received by(initials) amb Date Received: 8.23.02
2. Did cooler come with a shipping slip? Y (N)

If YES, enter carrier name and airbill number here: n/a

3. Were custody seals on the outside of cooler? Y N/a
How many & where: n/a Seal Date: n/a Seal Name: n/a
4. Did the custody seals arrive unbroken and intact upon arrival? Y N/a
5. COC#: n/a
6. Were Custody papers filled out properly (ink,signed, etc)? (Y) N
7. Were custody papers sealed in a plastic bag? (Y) N
8. Did you sign the COC in the appropriate place? (Y) N
9. Was the project identifiable from the COC papers? (Y) N
10. Was enough ice used to chill the cooler? (Y) N Temp. of cooler: 4°C

B. Log-In: Date samples were logged in: 8.23.02 By: amb

11. Type of packing in cooler(bubble wrap, popcorn) Y (N)
12. Were all bottles sealed in separate plastic bags? Y (N)
13. Did all bottles arrive unbroken and were labels in good condition? (Y) (N)
14. Were all bottle labels complete(ID,Date,time,etc.) Y (N)
15. Did all bottle labels agree with custody papers? Y (N) please refer to NonCompliance notification
16. Were the correct containers used for the tests indicated: (Y) N
17. Were samples received at the correct pH? Y N/a
18. Was sufficient amount of sample sent for the tests indicated? (Y) N
19. Were bubbles absent in VOA samples? Y N/a

If NO, List sample #'s: _____

20. Laboratory labeling verified by (initials): GK Date: 08/23/02

Round 2

analytics environmental laboratory LLC

195 Commerce Way Suite E
Portsmouth, New Hampshire 03801
603-436-5111 Fax 603-430-2151
800-929-9906
analytics@analyticslab.com

September 9, 2002

Mr Dan Sullivan
Foster Wheeler Environmental Corporation
P.O. Box 660
Kittery, ME 03904

RE: Analytical Results Case Narrative
Analytics # 48150
Navy – FWEC Project # CTO-03
PCB C/U BLDG 335

Dear Mr. Sullivan;

Enclosed please find the analytical results for samples submitted for the above-mentioned project. The attached Cover Page lists the sample IDs, Lab tracking numbers and collection dates for the samples included in this deliverable.

The samples were analyzed for PCBs according to EPA Method 8082. Unless otherwise noted in the Non-conformance Summary listed below, all of the quality control (QC) criteria including initial calibration, calibration verification, surrogate recovery, holding time and method accuracy/precision for these analyses were within acceptable limits.

This Level 3 data package has been assembled in the following order:

Case Narrative/Non-Conformance Summary
- Sample Log Sheet - Cover Page
- PCB Form 1 Data Sheet for Samples and Blanks
  - Chromatograms
- PCB Form 10 Confirmation Results Form (if required)
- PCB Form 2 Surrogate Recoveries
- PCB Form 3 MS/MSD (LCS) Recoveries
- PCB Form 4 Method Blank Summary (equiv.) GC/MS Logbook Sheets
- PCB Form 5 DDT Breakdown Summaries
- PCB Form 6 Initial Calibration Data
- PCB Form 7 Continuing Calibration Check
- PCB Form 8 System Monitoring Compound RT Summary
- Chain of Custody (COC) Forms and Sample Receipt Checklist

QC NON CONFORMANCE SUMMARY

Sample Receipt:
No QC deviations.

PCBs by EPA Method 8082:
No QC deviations.

Sincerely,
ANALYTICS Environmental Laboratory, LLC

Stephen L. Knollmeyer
Laboratory Director

analytics environmental laboratory LLC

195 Commerce Way Suite E
Portsmouth, New Hampshire 03801
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800-929-9906
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Mr. Dan Sullivan
Foster Wheeler Environmental Corp.
P.O. Box 660
Kittery ME 03904

Report Number: 48150

Revision: Rev. 0

Re: PCB C/U BLDG 335 **CTO-03**

Enclosed are the results of the analyses on your sample(s). Samples were received on 27 August 2002 and analyzed for the tests listed below. Samples were received in acceptable condition, with the exceptions noted below or on the chain of custody. The results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report. Please see individual reports for specific methodologies and references.

Lab Number	Sample Date	Station Location	Analysis	Comments
48150-1	08/27/02	CS-5-3-BS	EPA 8082 (PCBs only)	
48150-2	08/27/02	CS-5-4-BS	EPA 8082 (PCBs only)	
48150-3	08/27/02	CS-5-5BS	EPA 8082 (PCBs only)	
48150-4	08/27/02	CS-3-3-BS	EPA 8082 (PCBs only)	
48150-5	08/27/02	CS-5-6-SSW-3	EPA 8082 (PCBs only)	
48150-6	08/27/02	CS-2-3-BS	EPA 8082 (PCBs only)	
48150-7	08/27/02	CS-2-4-BS	EPA 8082 (PCBs only)	
48150-8	08/27/02	CS-2-5-NSW-1	EPA 8082 (PCBs only)	
48150-9	08/27/02	CS-2-5-NSW-2	EPA 8082 (PCBs only)	
48150-10	08/27/02	CS-3-4-NSW-1	EPA 8082 (PCBs only)	
48150-11	08/27/02	CS-3-4-NSW-2	EPA 8082 (PCBs only)	
48150-12	08/27/02	CS-3-5-ESW-1	EPA 8082 (PCBs only)	
48150-13	08/27/02	CS-3-5-ESW-2	EPA 8082 (PCBs only)	

Sample Receipt Exceptions: None

Analytics Environmental Laboratory is certified by the states of New Hampshire, Maine, Massachusetts, Connecticut, Rhode Island, North Carolina and is validated by the U.S. Army Corps of Engineers (MRD) and U.S. Navy (NFESC). A list of actual certified parameters is available upon request.

If you have any further question on the analytical methods or these results, do not hesitate to call.

Authorized signature _____
Stephen L. Knollmeyer Lab. Director

Date 8/28/2002

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analytics environmental laboratory LLC

195 Commerce Way
Portsmouth, New Hampshire 03801
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800-929-9906

Mr. Dan Sullivan
Foster Wheeler Environmental Corp.
P.O. Box 660
Kittery ME 03904

September 9, 2002

SAMPLE DATA

CLIENT SAMPLE ID

Project Name: PCB C/U BLDG 335

Project Number: CTO-03

Field Sample ID: CS-5-3-BS

Lab Sample ID: B08272PAS
Matrix: Solid
Percent Solid: 100
Dilution Factor: 1
Collection Date:
Lab Receipt Date:
Extraction Date: 08/27/02
Analysis Date: 08/28/02

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/kg	Results µg/kg
PCB-1016	15	U
PCB-1221	15	U
PCB-1232	15	U
PCB-1242	15	U
PCB-1248	15	U
PCB-1254	15	U
PCB-1260	15	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	104	%
Decachlorobiphenyl	110	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3545.

COMMENTS: Results are expressed on a dry weight basis.

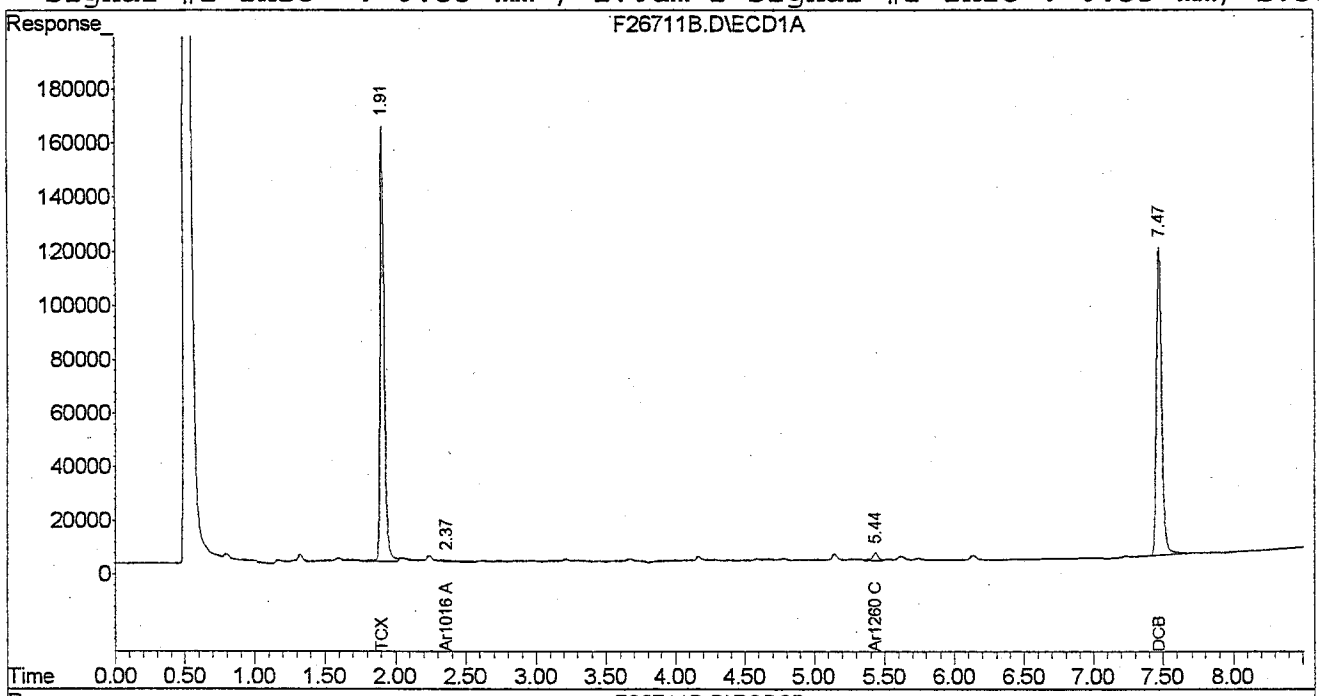
PCB Report

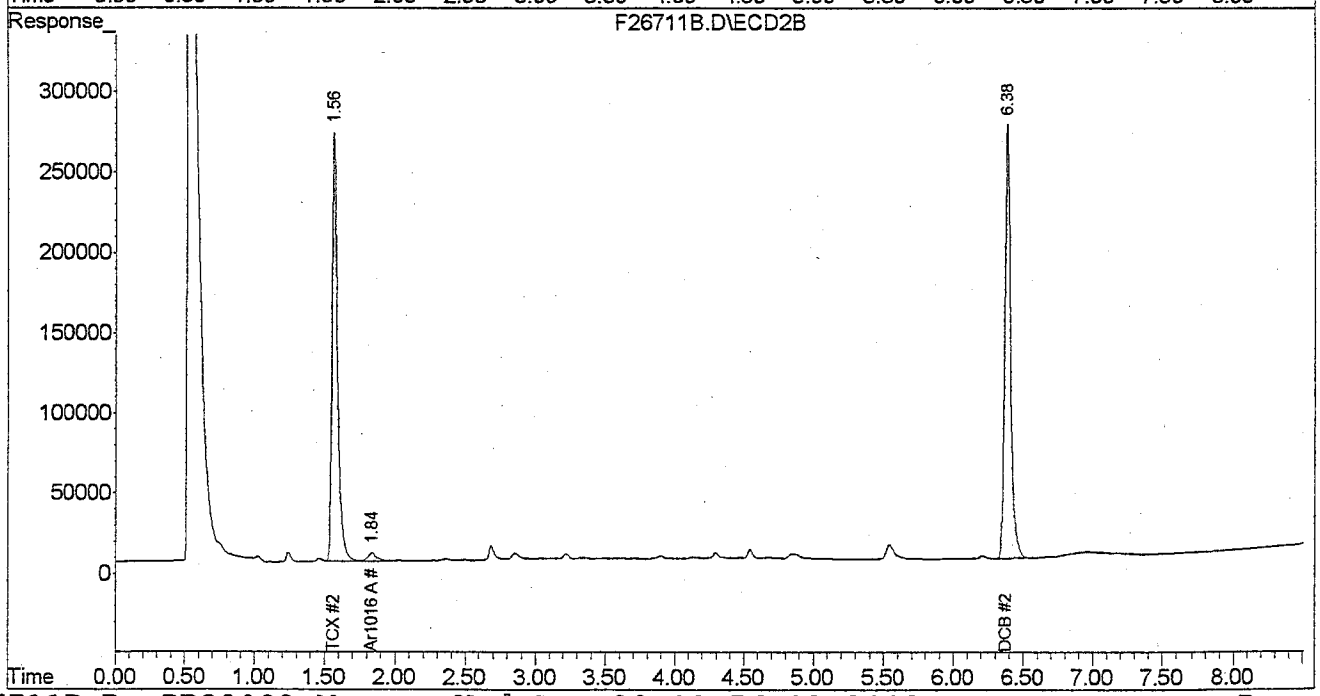
Authorized signature

Signal #1 : D:\HPCHEM\2\DATA\082702-F\F26711B.D\ECD1A.CH Vial: 33
Signal #2 : D:\HPCHEM\2\DATA\082702-F\F26711B.D\ECD2B.CH
Acq On : 28 Aug 2002 3:23 am Operator:
Sample : B08272PAS Inst : Instrume
Misc : SOIL Multiplr: 1.00
IntFile Signal #1: PCBINT.E IntFile Signal #2: PCBINT2.E
Quant Time: Aug 28 9:55 2002 Quant Results File: PBQ8092.RES

Quant Method : D:\HPCHEM\2\METHODS\PBQ8092.M (Chemstation Integrator)
Title : Aroclor 1016/1260
Last Update : Wed Aug 28 09:55:15 2002
Response via : Multiple Level Calibration
DataAcq Meth : PCB.M

Volume Inj. : 3 ul
Signal #1 Phase : DB-1701 Widebore Signal #2 Phase: DB-5 Widebore
Signal #1 Info : 0.53 mm , 1.0um f Signal #2 Info : 0.53 mm, 1.5um fil





analytics environmental laboratory LLC

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603-436-5111 Fax 603-430-2151
800-929-9906

Mr. Dan Sullivan
Foster Wheeler Environmental Corp.
P.O. Box 660
Kittery ME 03904

August 28, 2002

SAMPLE DATA

Lab Sample ID:	48150-1
Matrix:	Solid
Percent Solid:	83
Dilution Factor:	1.2
Collection Date:	08/27/02
Lab Receipt Date:	08/27/02
Extraction Date:	08/27/02
Analysis Date:	08/28/02

CLIENT SAMPLE ID

Project Name:	PCB C/U BLDG 335
Project Number:	CTO-03
Field Sample ID:	CS-5-3-BS

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/kg	Results µg/kg
PCB-1016	18	U
PCB-1221	18	U
PCB-1232	18	U
PCB-1242	18	U
PCB-1248	18	U
PCB-1254	18	31
PCB-1260	18	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	97	%
Decachlorobiphenyl	99	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3545.

COMMENTS: Results are expressed on a dry weight basis.

PCB Report

Authorized signature

analytics environmental laboratory LLC

PCB CONFIRMATION RESULTS

Quote#:

SDG: 48150

Project No: CTO 03

Site ID: PCB C/U Bldg 335

Location: Topsham, ME

Instrument ID: F

GC Columns: RTX-CLPesticidesI
RTX-CLPesticidesII

ID: 0.53(mm)

Sample ID: 48150-1

COMPOUND	RESPONSE #1 (ug/kg)	RESPONSE #2 (ug/kg)	DIFFERENCE %	#	% DIFFERENCE Acceptance Limit
PCB 1254	31	33	6		40

Column to be used to flag % Difference with an asterisk

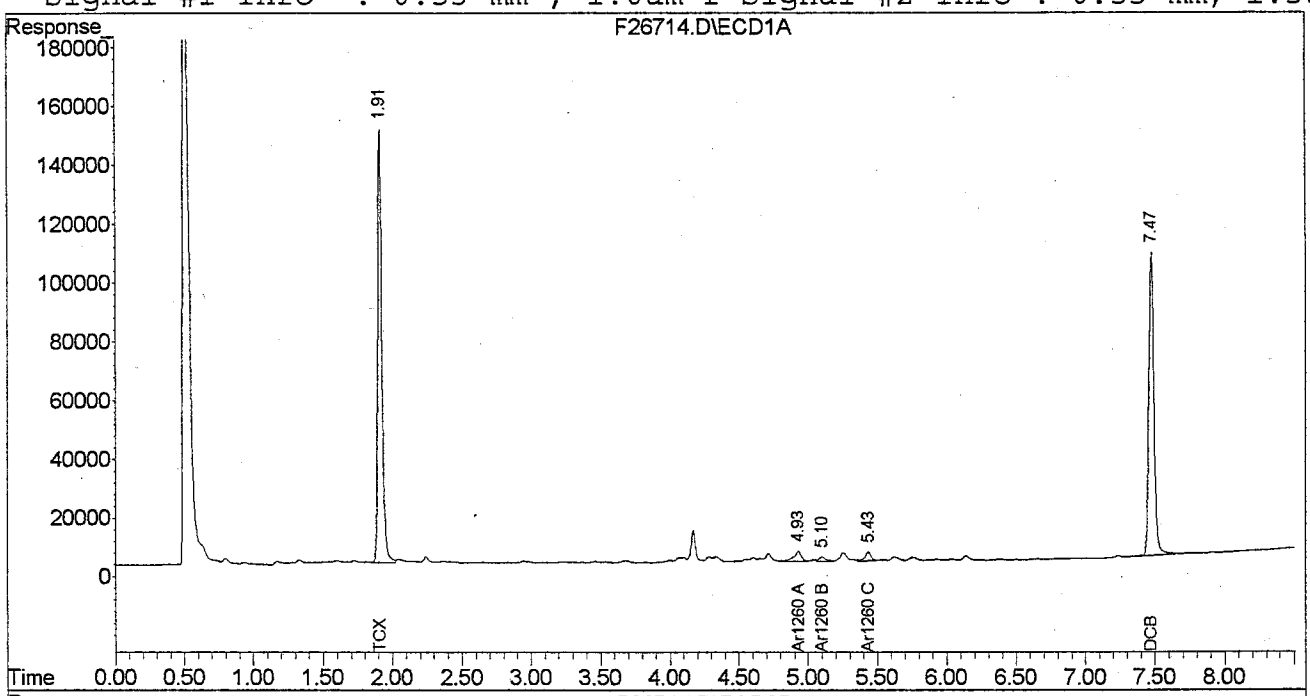
* Values outside of QC limits

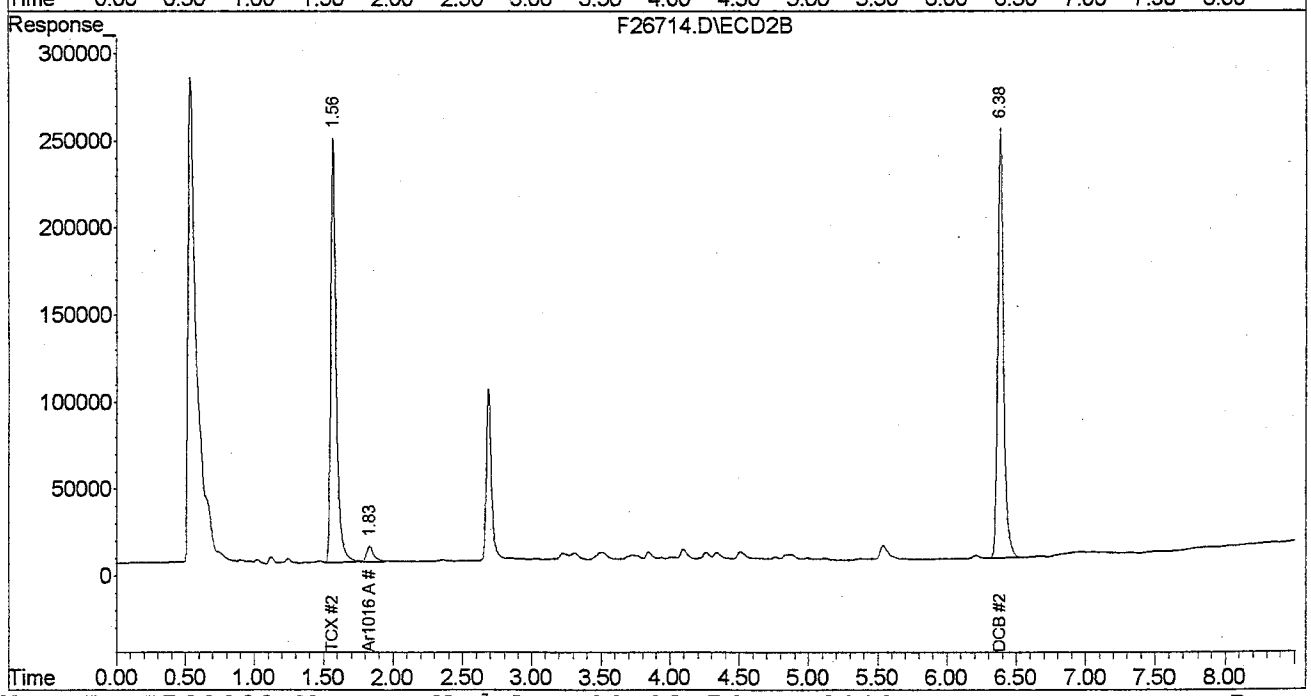
Quantitation Report (Not Reviewed)

Signal #1 : D:\HPCHEM\2\DATA\082702-F\F26714.D\ECD1A.CH Vial: 36
Signal #2 : D:\HPCHEM\2\DATA\082702-F\F26714.D\ECD2B.CH
Acq On : 28 Aug 2002 3:57 am Operator:
Sample : 48150-1 Inst : Instrume
Misc : SOIL Multiplr: 1.00
IntFile Signal #1: PCBINT.E IntFile Signal #2: PCBINT2.E
Quant Time: Aug 28 9:56 2002 Quant Results File: PBQ8092.RES

Quant Method : D:\HPCHEM\2\METHODS\PBQ8092.M (Chemstation Integrator)
Title : Aroclor 1016/1260
Last Update : Wed Aug 28 09:55:15 2002
Response via : Multiple Level Calibration
DataAcq Meth : PCB.M

Volume Inj. : 3 ul
Signal #1 Phase : DB-1701 Widebore Signal #2 Phase: DB-5 Widebore
Signal #1 Info : 0.53 mm , 1.0um f Signal #2 Info : 0.53 mm, 1.5um fil





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Mr. Dan Sullivan
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Kittery ME 03904

August 28, 2002

SAMPLE DATA

Lab Sample ID:	48150-2
Matrix:	Solid
Percent Solid:	83
Dilution Factor:	1.2
Collection Date:	08/27/02
Lab Receipt Date:	08/27/02
Extraction Date:	08/27/02
Analysis Date:	08/28/02

CLIENT SAMPLE ID

Project Name:	PCB C/U BLDG 335
Project Number:	CTO-03
Field Sample ID:	CS-5-4-BS

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/kg	Results µg/kg
PCB-1016	18	U
PCB-1221	18	U
PCB-1232	18	U
PCB-1242	18	U
PCB-1248	18	U
PCB-1254	18	**49**
PCB-1260	18	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	90	%
Decachlorobiphenyl	92	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3545.

COMMENTS: Results are expressed on a dry weight basis.

PCB Report

Authorized signature

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PCB CONFIRMATION RESULTS

Quote#: SDG: 48150

Project No: CTO 03 Site ID: PCB C/U Bldg 335 Location: Topsham, ME

Instrument ID: F GC Columns: RTX-CLPesticidesI ID: 0.53(mm)

RTX-CLPesticidesII

Sample ID: 48150-2

COMPOUND	RESPONSE #1 (ug/kg)	RESPONSE #2 (ug/kg)	DIFFERENCE %	#	% DIFFERENCE Acceptance Limit
PCB 1254	49	50	2		40

Column to be used to flag % Difference with an asterisk

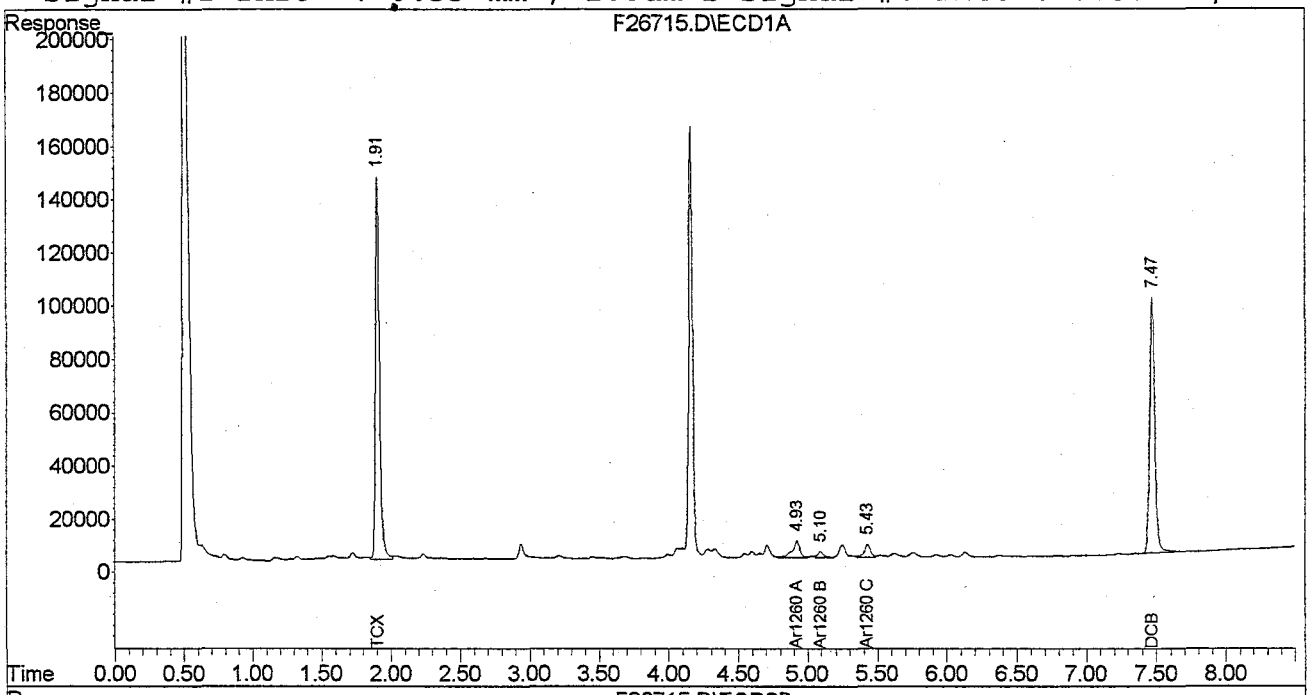
* Values outside of QC limits

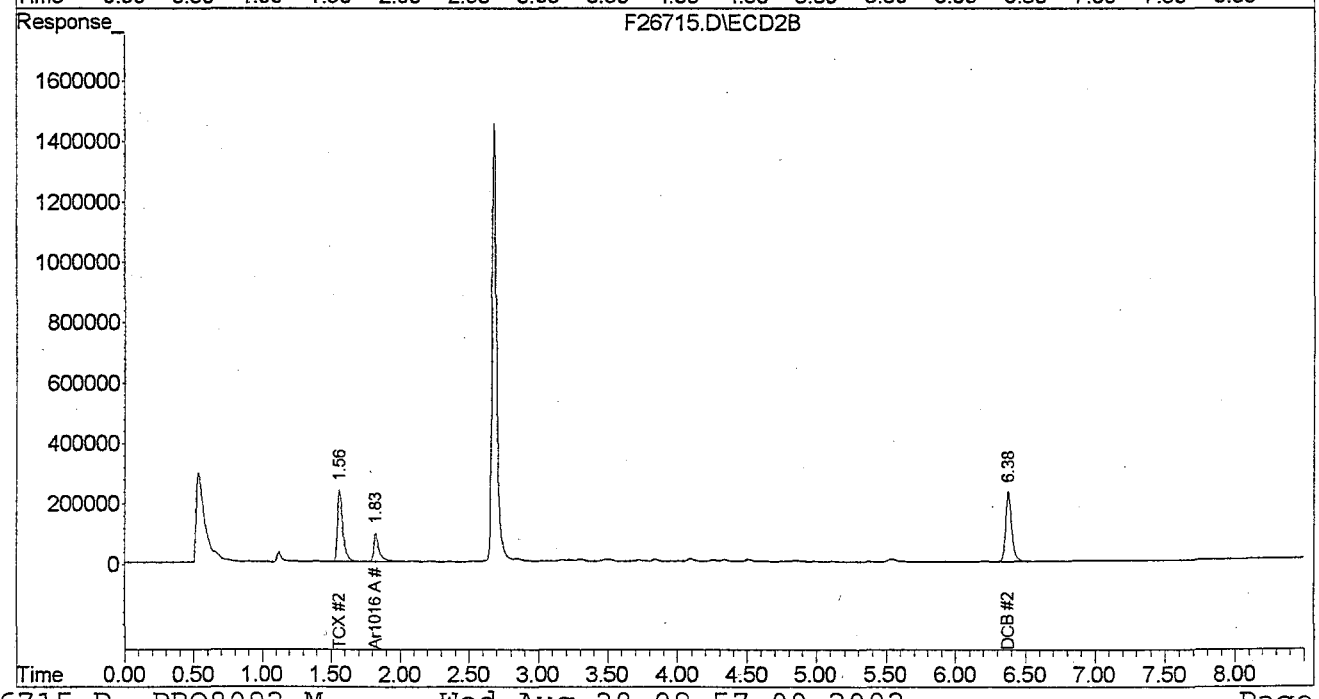
Quantitation Report (Not Reviewed)

Signal #1 : D:\HPCHEM\2\DATA\082702-F\F26715.D\ECD1A.CH Vial: 37
Signal #2 : D:\HPCHEM\2\DATA\082702-F\F26715.D\ECD2B.CH
Acq On : 28 Aug 2002 4:09 am Operator:
Sample : 48150-2 Inst : Instrume
Misc : SOIL Multiplr: 1.00
IntFile Signal #1: PCBINT.E IntFile Signal #2: PCBINT2.E
Quant Time: Aug 28 9:56 2002 Quant Results File: PBQ8092.RES

Quant Method : D:\HPCHEM\2\METHODS\PBQ8092.M (Chemstation Integrator)
Title : Aroclor 1016/1260
Last Update : Wed Aug 28 09:55:15 2002
Response via : Multiple Level Calibration
DataAcq Meth : PCB.M

Volume Inj. : 3 ul
Signal #1 Phase : DB-1701 Widebore Signal #2 Phase: DB-5 Widebore
Signal #1 Info : 0.53 mm , 1.0um f Signal #2 Info : 0.53 mm, 1.5um fil





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SAMPLE DATA

Lab Sample ID:	48150-3
Matrix:	Solid
Percent Solid:	82
Dilution Factor:	1.2
Collection Date:	08/27/02
Lab Receipt Date:	08/27/02
Extraction Date:	08/27/02
Analysis Date:	08/28/02

CLIENT SAMPLE ID

Project Name:	PCB C/U BLDG 335
Project Number:	CTO-03
Field Sample ID:	CS-5-5BS

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/kg	Results µg/kg
PCB-1016	18	U
PCB-1221	18	U
PCB-1232	18	U
PCB-1242	18	U
PCB-1248	18	U
PCB-1254	18	U
PCB-1260	18	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	87	%
Decachlorobiphenyl	90	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3545.

COMMENTS: Results are expressed on a dry weight basis.

PCB Report

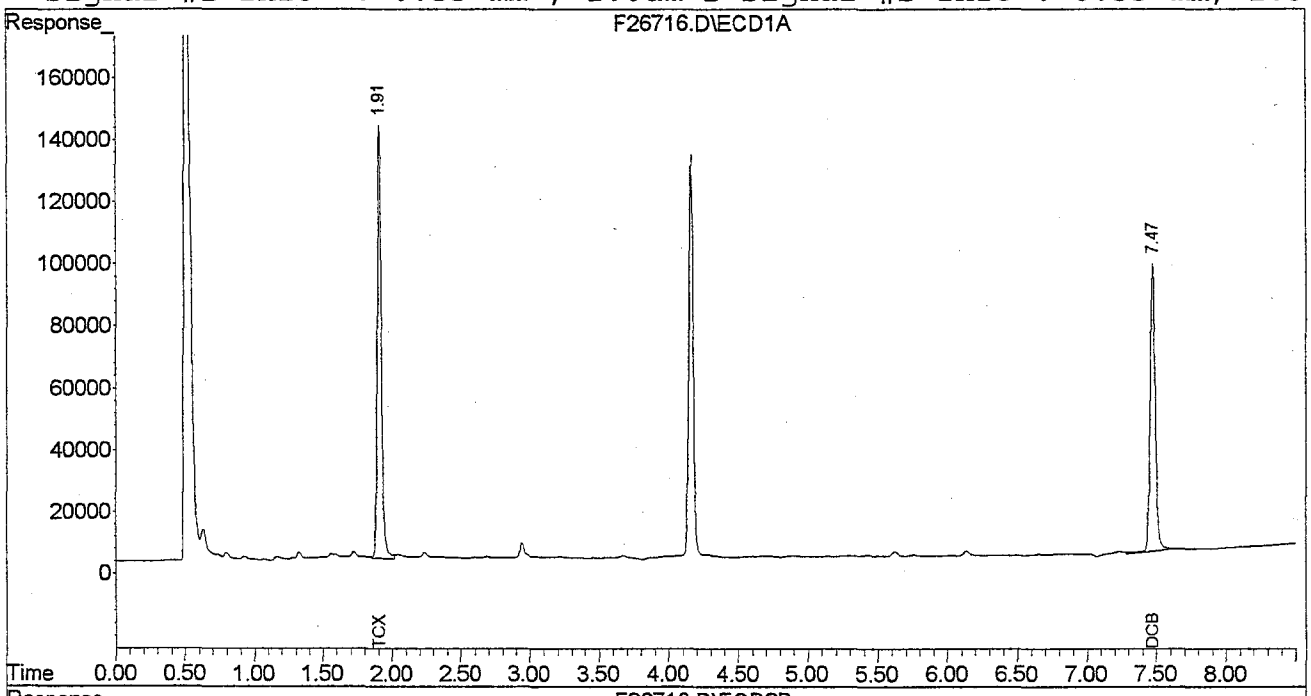
Authorized signature

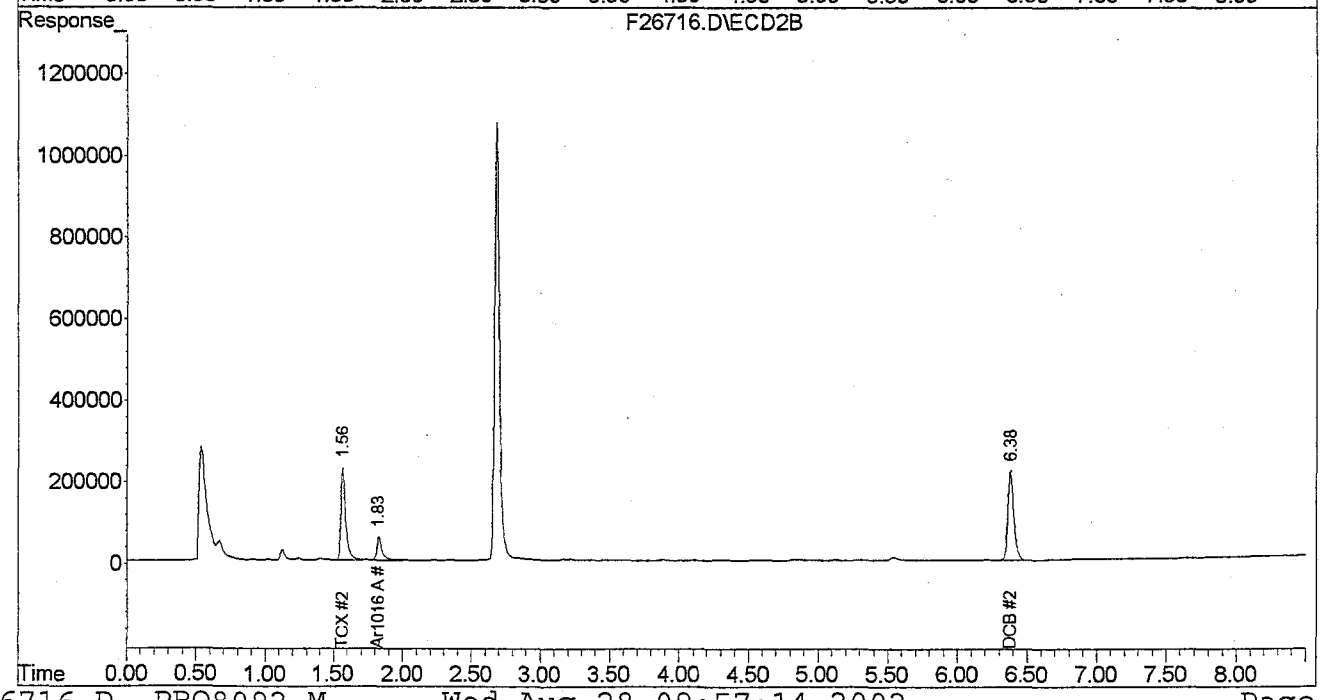
Quantitation Report (Not Reviewed)

Signal #1 : D:\HPCHEM\2\DATA\082702-F\F26716.D\ECD1A.CH Vial: 38
Signal #2 : D:\HPCHEM\2\DATA\082702-F\F26716.D\ECD2B.CH
Acq On : 28 Aug 2002 4:20 am Operator:
Sample : 48150-3 Inst : Instrume
Misc : SOIL Multiplr: 1.00
IntFile Signal #1: PCBINT.E IntFile Signal #2: PCBINT2.E
Quant Time: Aug 28 9:57 2002 Quant Results File: PBQ8092.RES

Quant Method : D:\HPCHEM\2\METHODS\PBQ8092.M (Chemstation Integrator)
Title : Aroclor 1016/1260
Last Update : Wed Aug 28 09:55:15 2002
Response via : Multiple Level Calibration
DataAcq Meth : PCB.M

Volume Inj. : 3 ul
Signal #1 Phase : DB-1701 Widebore Signal #2 Phase: DB-5 Widebore
Signal #1 Info : 0.53 mm , 1.0um f Signal #2 Info : 0.53 mm, 1.5um fil





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August 28, 2002

SAMPLE DATA

Lab Sample ID:	48150-4
Matrix:	Solid
Percent Solid:	75
Dilution Factor:	1.3
Collection Date:	08/27/02
Lab Receipt Date:	08/27/02
Extraction Date:	08/27/02
Analysis Date:	08/28/02

CLIENT SAMPLE ID

Project Name:	PCB C/U BLDG 335
Project Number:	CTO-03
Field Sample ID:	CS-3-3-BS

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/kg	Results µg/kg
PCB-1016	20	U
PCB-1221	20	U
PCB-1232	20	U
PCB-1242	20	U
PCB-1248	20	U
PCB-1254	20	**206**
PCB-1260	20	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	121	%
Decachlorobiphenyl	100	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3545.

COMMENTS: Results are expressed on a dry weight basis.

PCB Report

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PCB CONFIRMATION RESULTS

Quote#:

SDG: 48150

Project No: CTO 03

Site ID: PCB C/U Bldg 335

Location: Topsham, ME

Instrument ID: F

GC Columns: RTX-CLPesticidesI
RTX-CLPesticidesII

ID: 0.53(mm)

Sample ID: 48150-4

COMPOUND	RESPONSE #1 (ug/kg)	RESPONSE #2 (ug/kg)	DIFFERENCE %	#	% DIFFERENCE Acceptance Limit
PCB 1254	291	206	34		40

Column to be used to flag % Difference with an asterisk

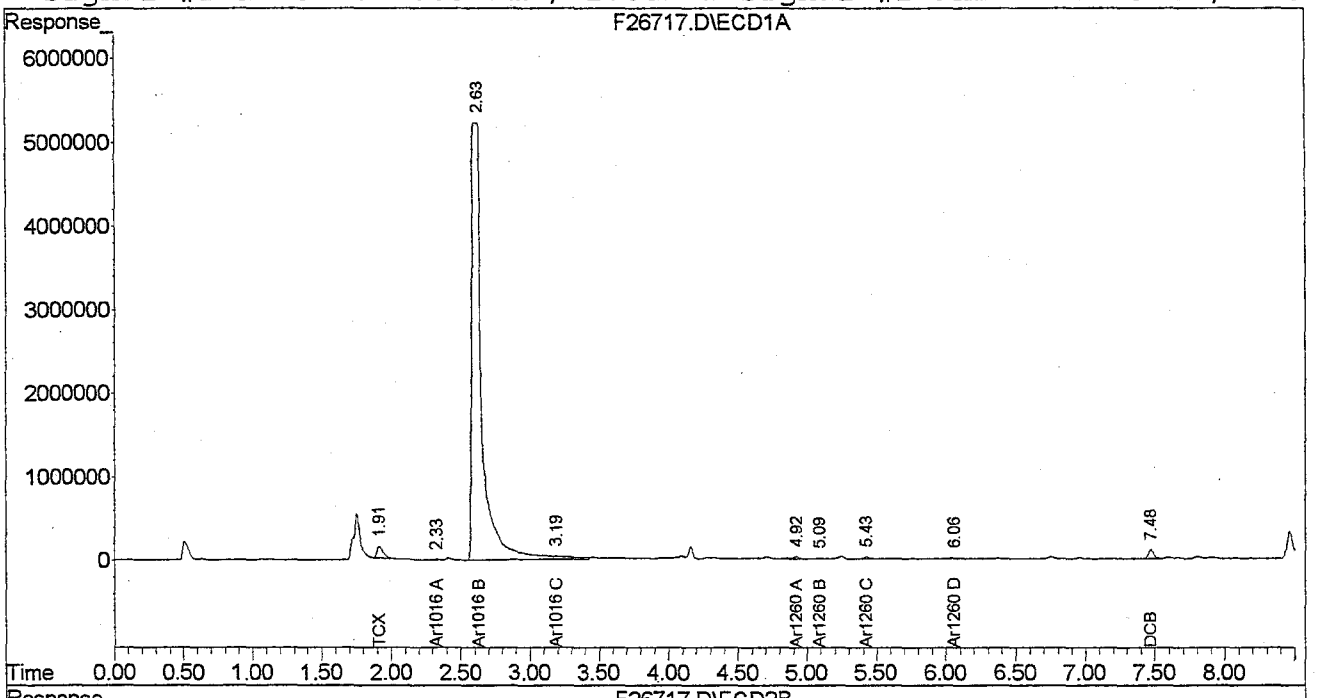
* Values outside of QC limits

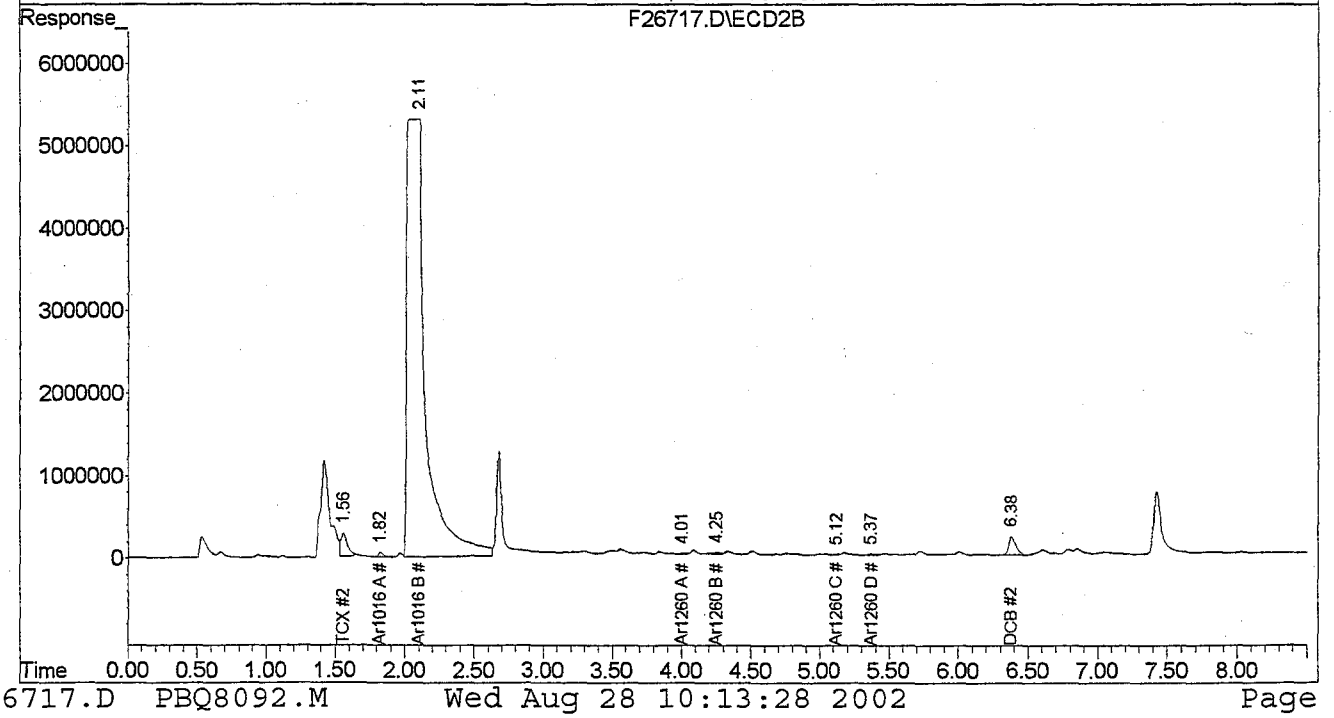
Quantitation Report (QT Reviewed)

Signal #1 : D:\HPCHEM\2\DATA\082702-F\F26717.D\ECD1A.CH Vial: 39
Signal #2 : D:\HPCHEM\2\DATA\082702-F\F26717.D\ECD2B.CH
Acq On : 28 Aug 2002 4:32 am Operator:
Sample : 48150-4 Inst : Instrume
Misc : SOIL Multiplr: 1.00
IntFile Signal #1: PCBINT.E IntFile Signal #2: PCBINT2.E
Quant Time: Aug 28 10:13 2002 Quant Results File: PBQ8092.RES

Quant Method : D:\HPCHEM\2\METHODS\PBQ8092.M (Chemstation Integrator)
Title : Aroclor 1016/1260
Last Update : Wed Aug 28 09:55:15 2002
Response via : Multiple Level Calibration
DataAcq Meth : PCB.M

Volume Inj. : 3 ul
Signal #1 Phase : DB-1701 Widebore Signal #2 Phase: DB-5 Widebore
Signal #1 Info : 0.53 mm , 1.0um f Signal #2 Info : 0.53 mm, 1.5um fil





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SAMPLE DATA

Lab Sample ID:	48150-5
Matrix:	Solid
Percent Solid:	81
Dilution Factor:	1.2
Collection Date:	08/27/02
Lab Receipt Date:	08/27/02
Extraction Date:	08/27/02
Analysis Date:	08/28/02

CLIENT SAMPLE ID

Project Name:	PCB C/U BLDG 335
Project Number:	CTO-03
Field Sample ID:	CS-5-6-SSW-3

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/kg	Results µg/kg
PCB-1016	18	U
PCB-1221	18	U
PCB-1232	18	U
PCB-1242	18	U
PCB-1248	18	U
PCB-1254	18	U
PCB-1260	18	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	93	%
Decachlorobiphenyl	92	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3545.

COMMENTS: Results are expressed on a dry weight basis.

PCB Report

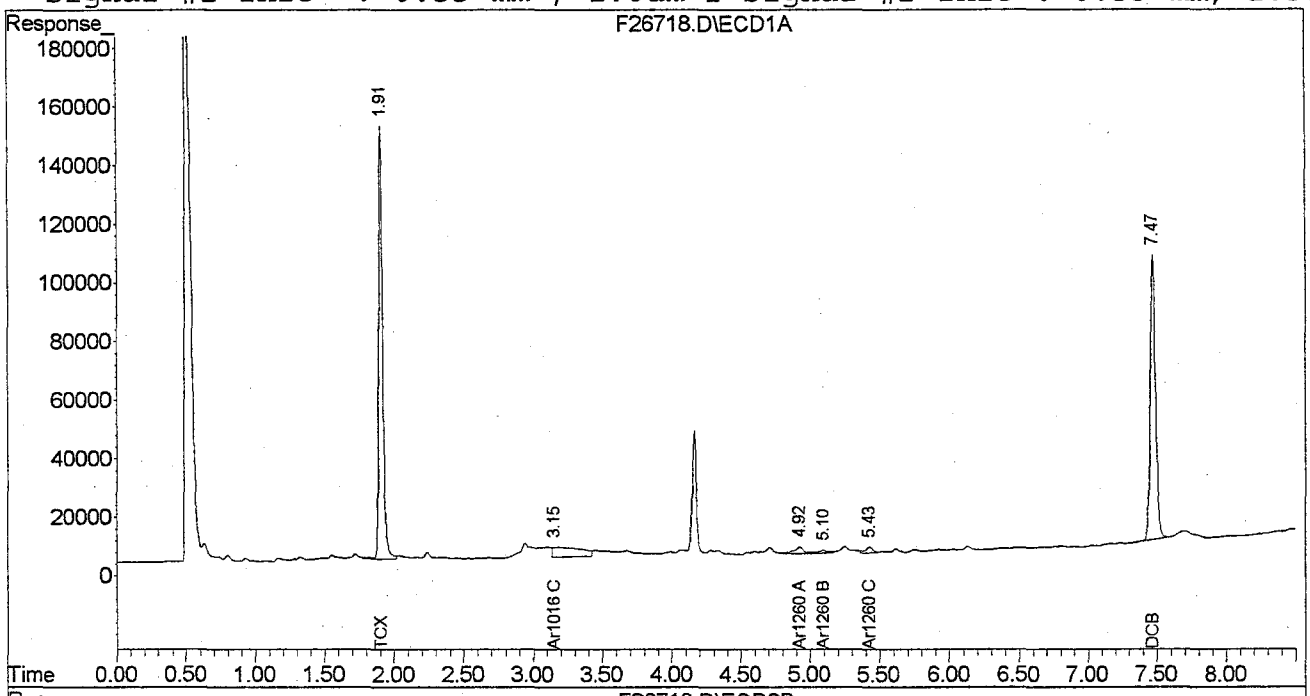
Authorized signature

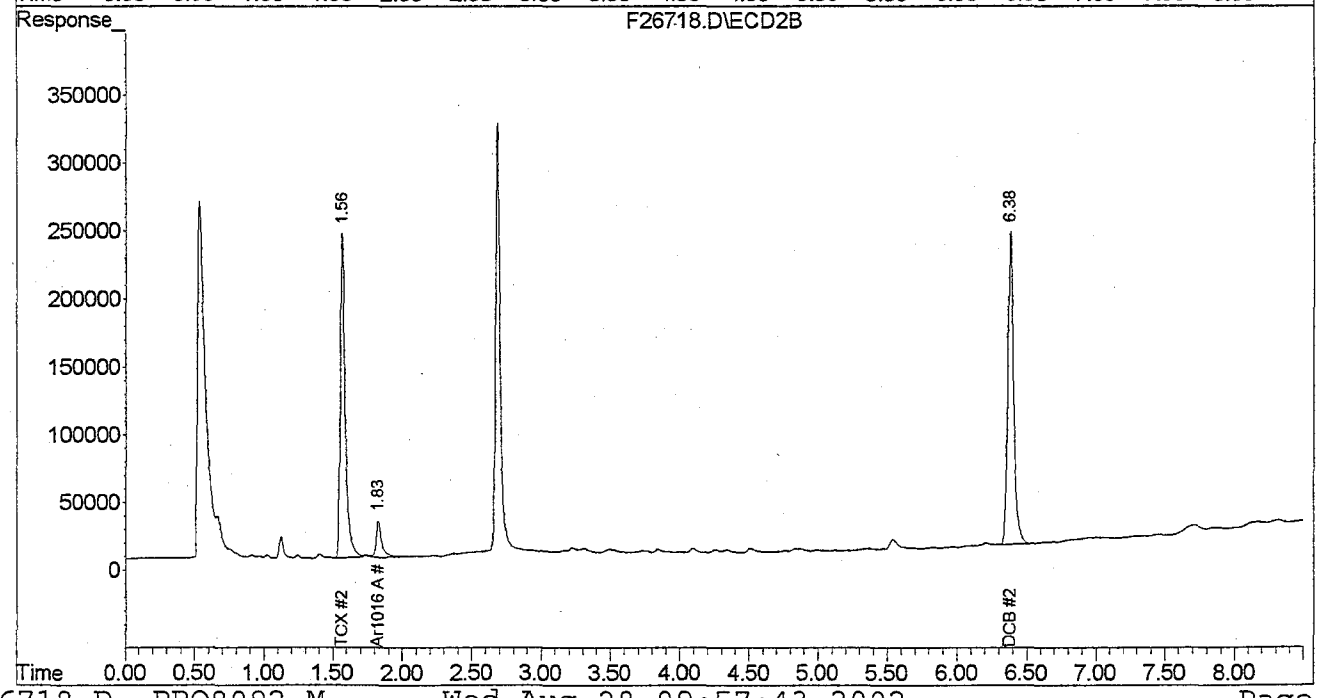
Quantitation Report (Not Reviewed)

Signal #1 : D:\HPCHEM\2\DATA\082702-F\F26718.D\ECD1A.CH Vial: 40
Signal #2 : D:\HPCHEM\2\DATA\082702-F\F26718.D\ECD2B.CH
Acq On : 28 Aug 2002 4:43 am Operator:
Sample : 48150-5 Inst : Instrume
Misc : SOIL Multiplr: 1.00
IntFile Signal #1: PCBINT.E IntFile Signal #2: PCBINT2.E
Quant Time: Aug 28 9:57 2002 Quant Results File: PBQ8092.RES

Quant Method : D:\HPCHEM\2\METHODS\PBQ8092.M (Chemstation Integrator)
Title : Aroclor 1016/1260
Last Update : Wed Aug 28 09:55:15 2002
Response via : Multiple Level Calibration
DataAcq Meth : PCB.M

Volume Inj. : 3 ul
Signal #1 Phase : DB-1701 Widebore Signal #2 Phase: DB-5 Widebore
Signal #1 Info : 0.53 mm , 1.0um f Signal #2 Info : 0.53 mm, 1.5um fil





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August 28, 2002

SAMPLE DATA

Lab Sample ID:	48150-6
Matrix:	Solid
Percent Solid:	85
Dilution Factor:	1.1
Collection Date:	08/27/02
Lab Receipt Date:	08/27/02
Extraction Date:	08/27/02
Analysis Date:	08/28/02

CLIENT SAMPLE ID

Project Name:	PCB C/U BLDG 335
Project Number:	CTO-03
Field Sample ID:	CS-2-3-BS

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/kg	Results µg/kg
PCB-1016	17	U
PCB-1221	17	U
PCB-1232	17	U
PCB-1242	17	U
PCB-1248	17	U
PCB-1254	17	22
PCB-1260	17	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	89	%
Decachlorobiphenyl	108	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3545.

COMMENTS: Results are expressed on a dry weight basis.

PCB Report

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PCB CONFIRMATION RESULTS

Quote#: SDG: 48150

Project No: CTO 03 Site ID: PCB C/U Bldg 335 Location: Topsham, ME

Instrument ID: F GC Columns: RTX-CLPesticidesI ID: 0.53(mm)

RTX-CLPesticidesII

Sample ID: 48150-6

COMPOUND	RESPONSE #1 (ug/kg)	RESPONSE #2 (ug/kg)	DIFFERENCE %	#	% DIFFERENCE Acceptance Limit
PCB 1254	22	18	20		40

Column to be used to flag % Difference with an asterisk

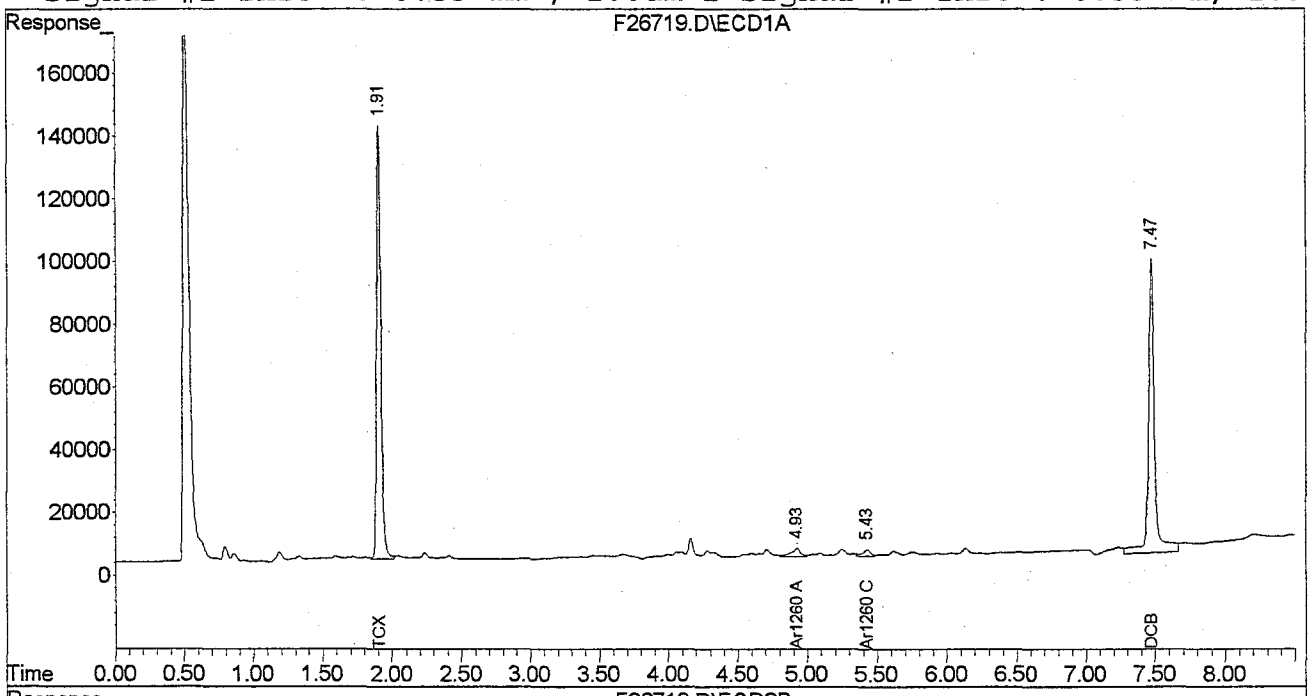
* Values outside of QC limits

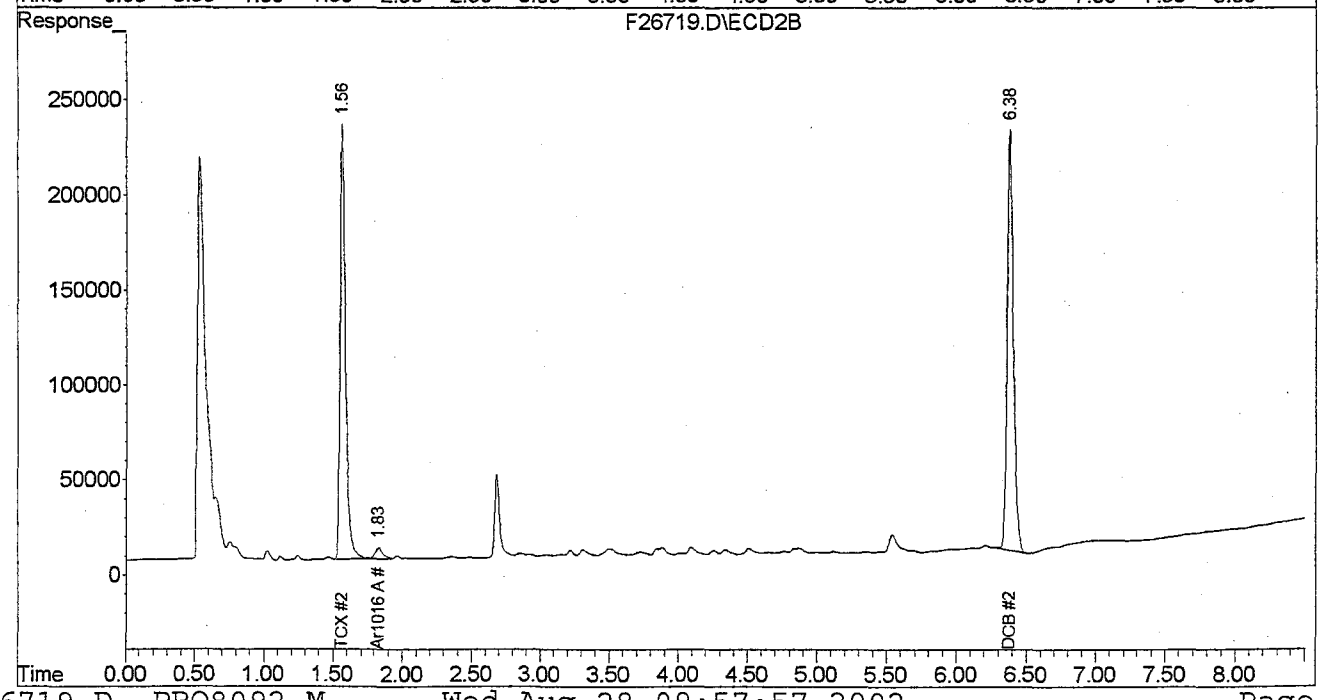
Quantitation Report (Not Reviewed)

Signal #1 : D:\HPCHEM\2\DATA\082702-F\F26719.D\ECD1A.CH Vial: 41
Signal #2 : D:\HPCHEM\2\DATA\082702-F\F26719.D\ECD2B.CH
Acq On : 28 Aug 2002 4:54 am Operator:
Sample : 48150-6 Inst : Instrume
Misc : SOIL Multiplr: 1.00
IntFile Signal #1: PCBINT.E IntFile Signal #2: PCBINT2.E
Quant Time: Aug 28 9:57 2002 Quant Results File: PBQ8092.RES

Quant Method : D:\HPCHEM\2\METHODS\PBQ8092.M (Chemstation Integrator)
Title : Aroclor 1016/1260
Last Update : Wed Aug 28 09:55:15 2002
Response via : Multiple Level Calibration
DataAcq Meth : PCB.M

Volume Inj. : 3 ul
Signal #1 Phase : DB-1701 Widebore Signal #2 Phase: DB-5 Widebore
Signal #1 Info : 0.53 mm , 1.0um f Signal #2 Info : 0.53 mm, 1.5um fil





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August 28, 2002

SAMPLE DATA

Lab Sample ID:	48150-7
Matrix:	Solid
Percent Solid:	91
Dilution Factor:	11
Collection Date:	08/27/02
Lab Receipt Date:	08/27/02
Extraction Date:	08/27/02
Analysis Date:	08/28/02

CLIENT SAMPLE ID

Project Name:	PCB C/U BLDG 335
Project Number:	CTO-03
Field Sample ID:	CS-2-4-BS

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/kg	Results µg/kg
PCB-1016	170	U
PCB-1221	170	U
PCB-1232	170	U
PCB-1242	170	U
PCB-1248	170	U
PCB-1254	170	**3090**
PCB-1260	170	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	*	%
Decachlorobiphenyl	*	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3545.

COMMENTS: Results are expressed on a dry weight basis. * The surrogates were diluted out.

PCB Report

Authorized signature

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PCB CONFIRMATION RESULTS

Quote#:

SDG: 48150

Project No: CTO 03

Site ID: PCB C/U Bldg 335

Location: Topsham, ME

Instrument ID: F

GC Columns: RTX-CLPesticidesI
RTX-CLPesticidesII

ID: 0.53(mm)

Sample ID: 48150-7

COMPOUND	RESPONSE #1 (ug/kg)	RESPONSE #2 (ug/kg)	DIFFERENCE %	#	% DIFFERENCE Acceptance Limit
PCB 1254	3090	3710	18		40

Column to be used to flag % Difference with an asterisk

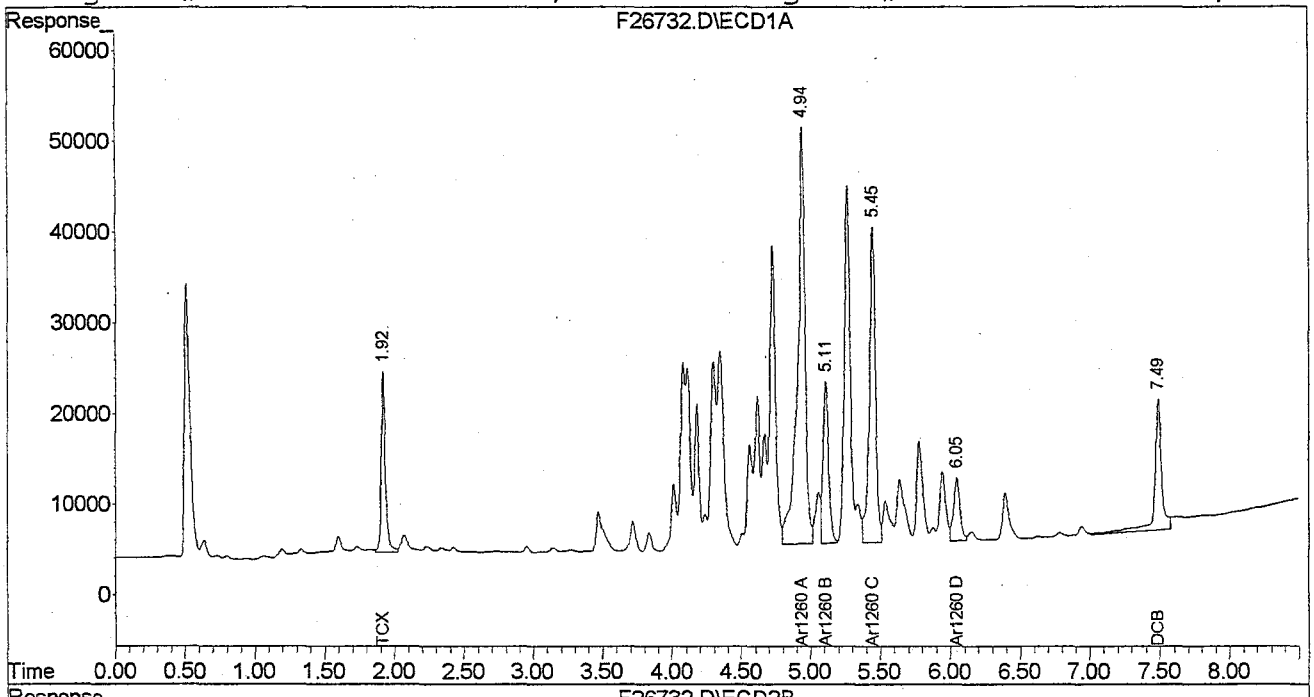
* Values outside of QC limits

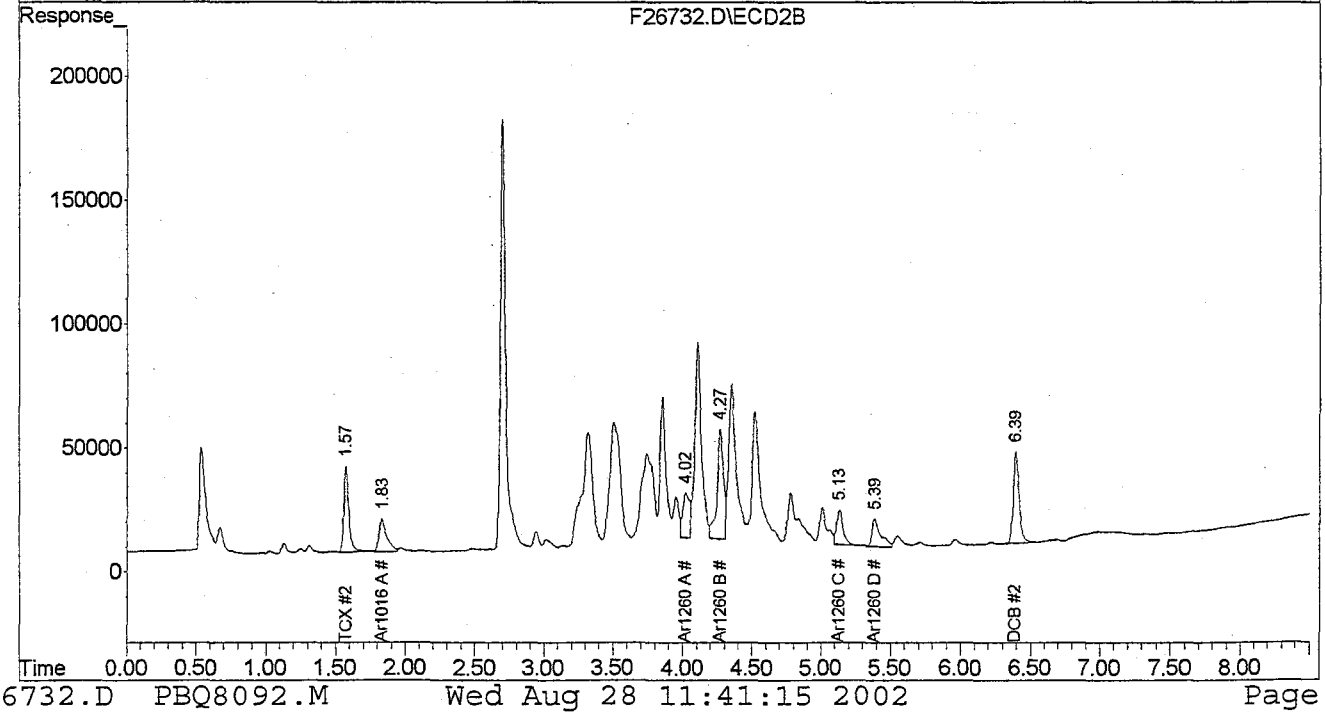
Quantitation Report (Not Reviewed)

Signal #1 : D:\HPCHEM\2\DATA\082702-F\F26732.D\ECD1A.CH Vial: 53
Signal #2 : D:\HPCHEM\2\DATA\082702-F\F26732.D\ECD2B.CH
Acq On : 28 Aug 2002 10:48 am Operator:
Sample : 48150-7 1:10 Inst : Instrume
Misc : SOIL Multiplr: 1.00
IntFile Signal #1: PCBINT.E IntFile Signal #2: PCBINT2.E
Quant Time: Aug 28 11:41 2002 Quant Results File: PBQ8092.RES

Quant Method : D:\HPCHEM\2\METHODS\PBQ8092.M (Chemstation Integrator)
Title : Aroclor 1016/1260
Last Update : Wed Aug 28 09:55:15 2002
Response via : Multiple Level Calibration
DataAcq Meth : PCB.M

Volume Inj. : 3 ul
Signal #1 Phase : DB-1701 Widebore Signal #2 Phase: DB-5 Widebore
Signal #1 Info : 0.53 mm , 1.0um f Signal #2 Info : 0.53 mm, 1.5um fil





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August 28, 2002

SAMPLE DATA

Lab Sample ID:	48150-8
Matrix:	Solid
Percent Solid:	92
Dilution Factor:	11
Collection Date:	08/27/02
Lab Receipt Date:	08/27/02
Extraction Date:	08/27/02
Analysis Date:	08/28/02

CLIENT SAMPLE ID

Project Name:	PCB C/U BLDG 335
Project Number:	CTO-03
Field Sample ID:	CS-2-5-NSW-1

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/kg	Results µg/kg
PCB-1016	170	U
PCB-1221	170	U
PCB-1232	170	U
PCB-1242	170	U
PCB-1248	170	U
PCB-1254	170	**2200**
PCB-1260	170	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	*	%
Decachlorobiphenyl	*	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3545.

COMMENTS: Results are expressed on a dry weight basis. * The surrogates were diluted out.

PCB Report

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PCB CONFIRMATION RESULTS

Quote#: SDG: 48150

Project No: CTO 03 Site ID: PCB C/U Bldg 335 Location: Topsham, ME

Instrument ID: F GC Columns: RTX-CLPesticidesI ID: 0.53(mm)

RTX-CLPesticidesII

Sample ID: 48150-8

COMPOUND	RESPONSE #1 (ug/kg)	RESPONSE #2 (ug/kg)	DIFFERENCE %	#	% DIFFERENCE Acceptance Limit
PCB 1254	2200	2720	21		40

Column to be used to flag % Difference with an asterisk

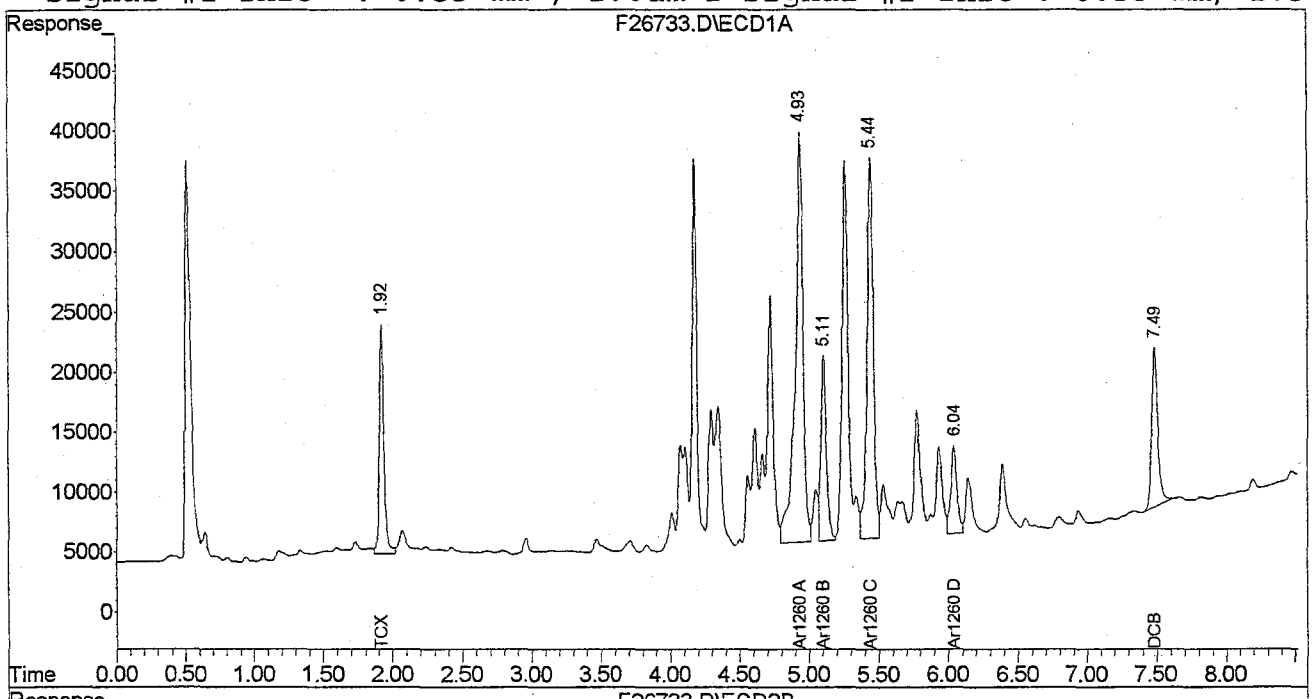
* Values outside of QC limits

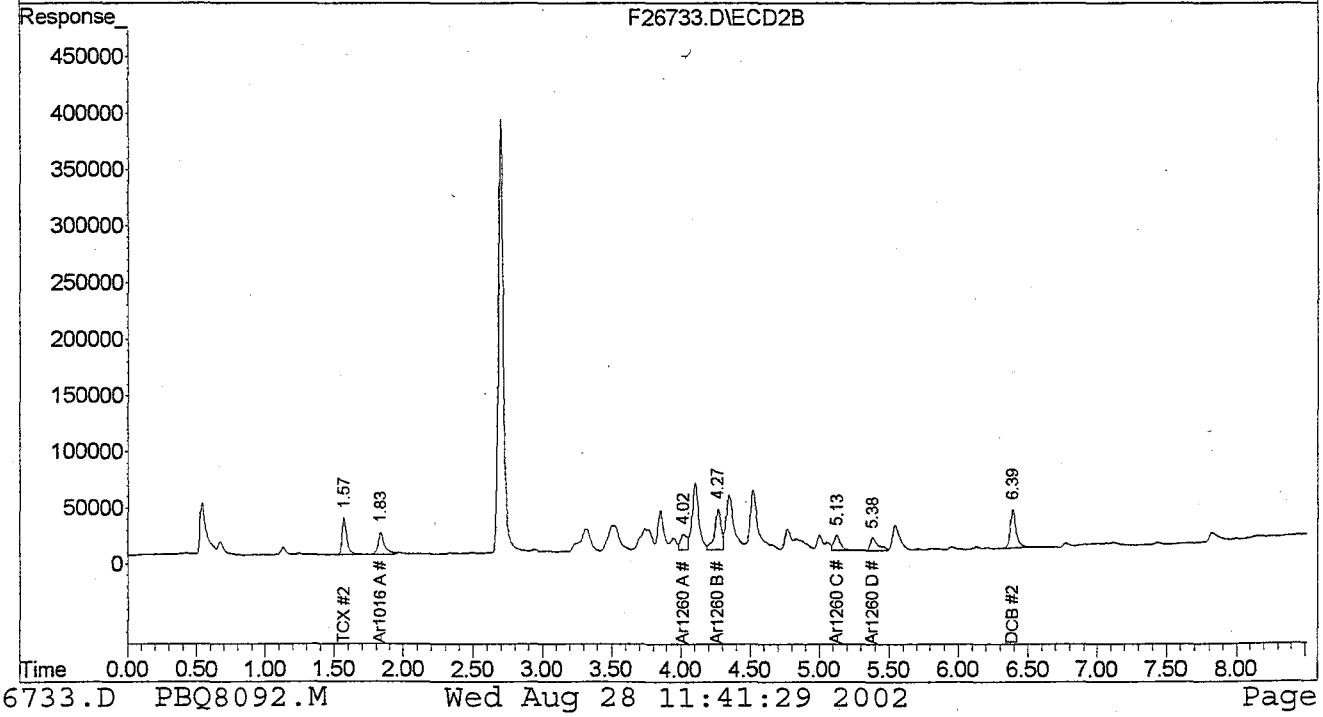
Quantitation Report (Not Reviewed)

Signal #1 : D:\HPCHEM\2\DATA\082702-F\F26733.D\ECD1A.CH Vial: 54
Signal #2 : D:\HPCHEM\2\DATA\082702-F\F26733.D\ECD2B.CH
Acq On : 28 Aug 2002 11:00 am Operator:
Sample : 48150-8 1:10 Inst : Instrume
Misc : SOIL Multiplr: 1.00
IntFile Signal #1: PCBINT.E IntFile Signal #2: PCBINT2.E
Quant Time: Aug 28 11:41 2002 Quant Results File: PBQ8092.RES

Quant Method : D:\HPCHEM\2\METHODS\PBQ8092.M (Chemstation Integrator)
Title : Aroclor 1016/1260
Last Update : Wed Aug 28 09:55:15 2002
Response via : Multiple Level Calibration
DataAcq Meth : PCB.M

Volume Inj. : 3 ul
Signal #1 Phase : DB-1701 Widebore Signal #2 Phase: DB-5 Widebore
Signal #1 Info : 0.53 mm , 1.0um f Signal #2 Info : 0.53 mm, 1.5um fil





analytics environmental laboratory LLC

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603-436-5111 Fax 603-430-2151
800-929-9906

Mr. Dan Sullivan
Foster Wheeler Environmental Corp.
P.O. Box 660
Kittery ME 03904

August 28, 2002

SAMPLE DATA

Lab Sample ID:	48150-9
Matrix:	Solid
Percent Solid:	89
Dilution Factor:	1.1
Collection Date:	08/27/02
Lab Receipt Date:	08/27/02
Extraction Date:	08/27/02
Analysis Date:	08/28/02

CLIENT SAMPLE ID

Project Name:	PCB C/U BLDG 335
Project Number:	CTO-03
Field Sample ID:	CS-2-5-NSW-2

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/kg	Results µg/kg
PCB-1016	17	U
PCB-1221	17	U
PCB-1232	17	U
PCB-1242	17	U
PCB-1248	17	U
PCB-1254	17	**204**
PCB-1260	17	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	95	%
Decachlorobiphenyl	117	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3545.

COMMENTS: Results are expressed on a dry weight basis.

PCB Report

Authorized signature

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PCB CONFIRMATION RESULTS

Quote#: SDG: 48150

Project No: CTO 03 Site ID: PCB C/U Bldg 335 Location: Topsham, ME

Instrument ID: F GC Columns: RTX-CLPesticidesI ID: 0.53(mm)

RTX-CLPesticidesII

Sample ID: 48150-9

COMPOUND	RESPONSE #1 (ug/kg)	RESPONSE #2 (ug/kg)	DIFFERENCE %	#	% DIFFERENCE Acceptance Limit
PCB 1254	204	166	21		40

Column to be used to flag % Difference with an asterisk

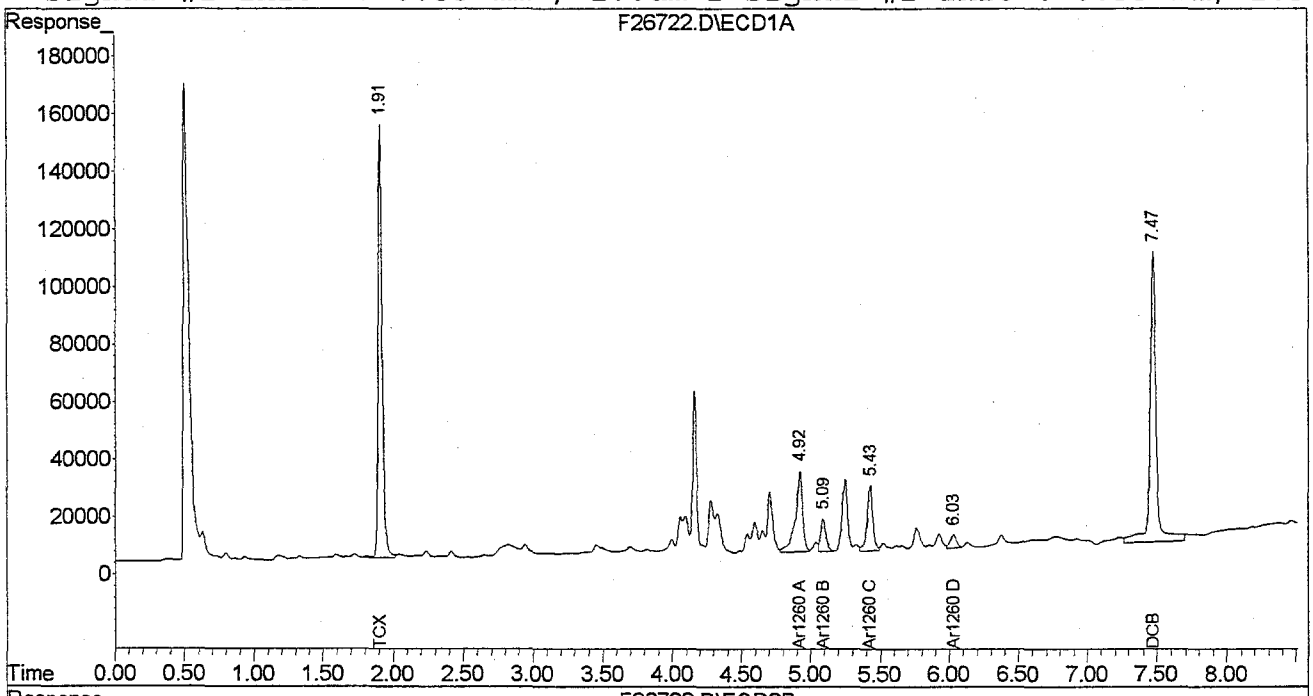
* Values outside of QC limits

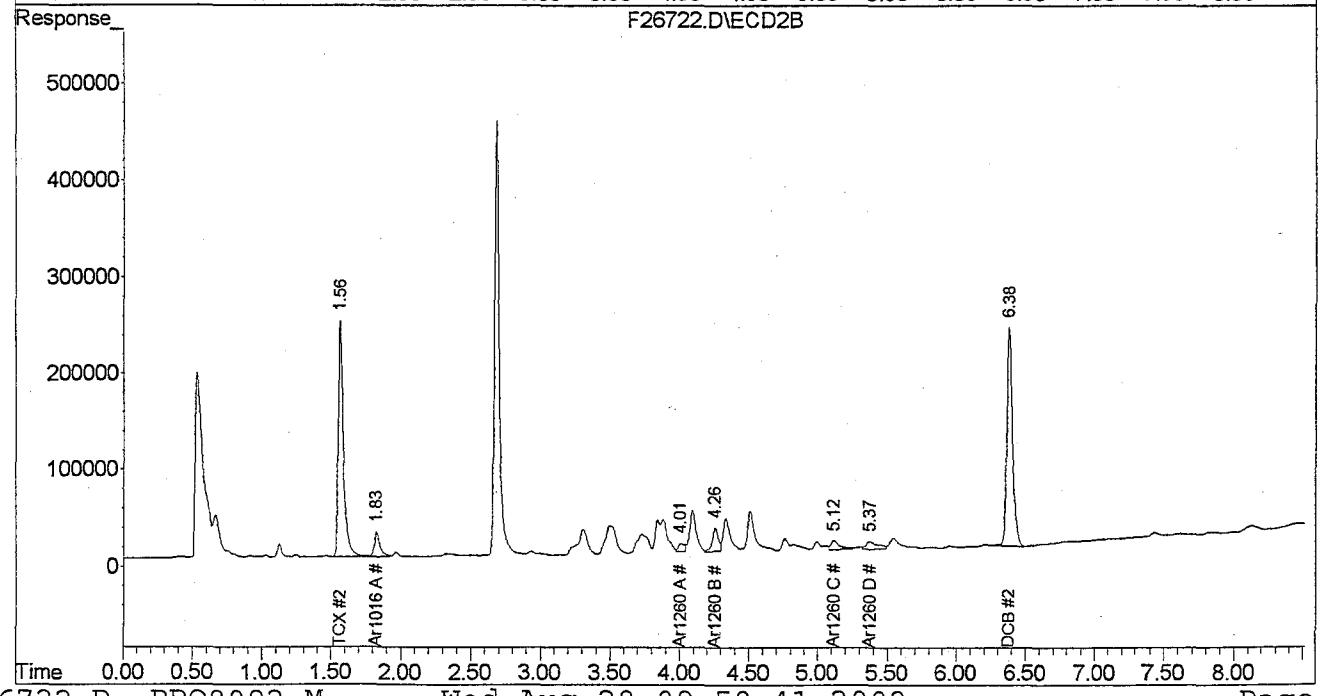
Quantitation Report (Not Reviewed)

Signal #1 : D:\HPCHEM\2\DATA\082702-F\F26722.D\ECD1A.CH Vial: 44
Signal #2 : D:\HPCHEM\2\DATA\082702-F\F26722.D\ECD2B.CH
Acq On : 28 Aug 2002 5:29 am Operator:
Sample : 48150-9 Inst : Instrume
Misc : SOIL Multiplr: 1.00
IntFile Signal #1: PCBINT.E IntFile Signal #2: PCBINT2.E
Quant Time: Aug 28 9:58 2002 Quant Results File: PBQ8092.RES

Quant Method : D:\HPCHEM\2\METHODS\PBQ8092.M (Chemstation Integrator)
Title : Aroclor 1016/1260
Last Update : Wed Aug 28 09:55:15 2002
Response via : Multiple Level Calibration
DataAcq Meth : PCB.M

Volume Inj. : 3 ul
Signal #1 Phase : DB-1701 Widebore Signal #2 Phase: DB-5 Widebore
Signal #1 Info : 0.53 mm , 1.0um f Signal #2 Info : 0.53 mm, 1.5um fil





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August 28, 2002

SAMPLE DATA

Lab Sample ID:	48150-10
Matrix:	Solid
Percent Solid:	85
Dilution Factor:	230
Collection Date:	08/27/02
Lab Receipt Date:	08/27/02
Extraction Date:	08/27/02
Analysis Date:	08/28/02

CLIENT SAMPLE ID

Project Name:	PCB C/U BLDG 335
Project Number:	CTO-03
Field Sample ID:	CS-3-4-NSW-1

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/kg	Results µg/kg
PCB-1016	3450	U
PCB-1221	3450	U
PCB-1232	3450	U
PCB-1242	3450	U
PCB-1248	3450	U
PCB-1254	3450	**51600**
PCB-1260	3450	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	*	%
Decachlorobiphenyl	*	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3545.

COMMENTS: Results are expressed on a dry weight basis. * The surrogates were diluted out.

PCB Report

Authorized signature

analytics environmental laboratory LLC

PCB CONFIRMATION RESULTS

Quote#: SDG: 48150

Project No: CTO 03 Site ID: PCB C/U Bldg 335 Location: Topsham, ME

Instrument ID: F GC Columns: RTX-CLPesticidesI ID: 0.53(mm)

RTX-CLPesticidesII

Sample ID: 48150-10

COMPOUND	RESPONSE #1 (ug/kg)	RESPONSE #2 (ug/kg)	DIFFERENCE %	#	% DIFFERENCE Acceptance Limit
PCB 1254	51600	59600	14		40

Column to be used to flag % Difference with an asterisk

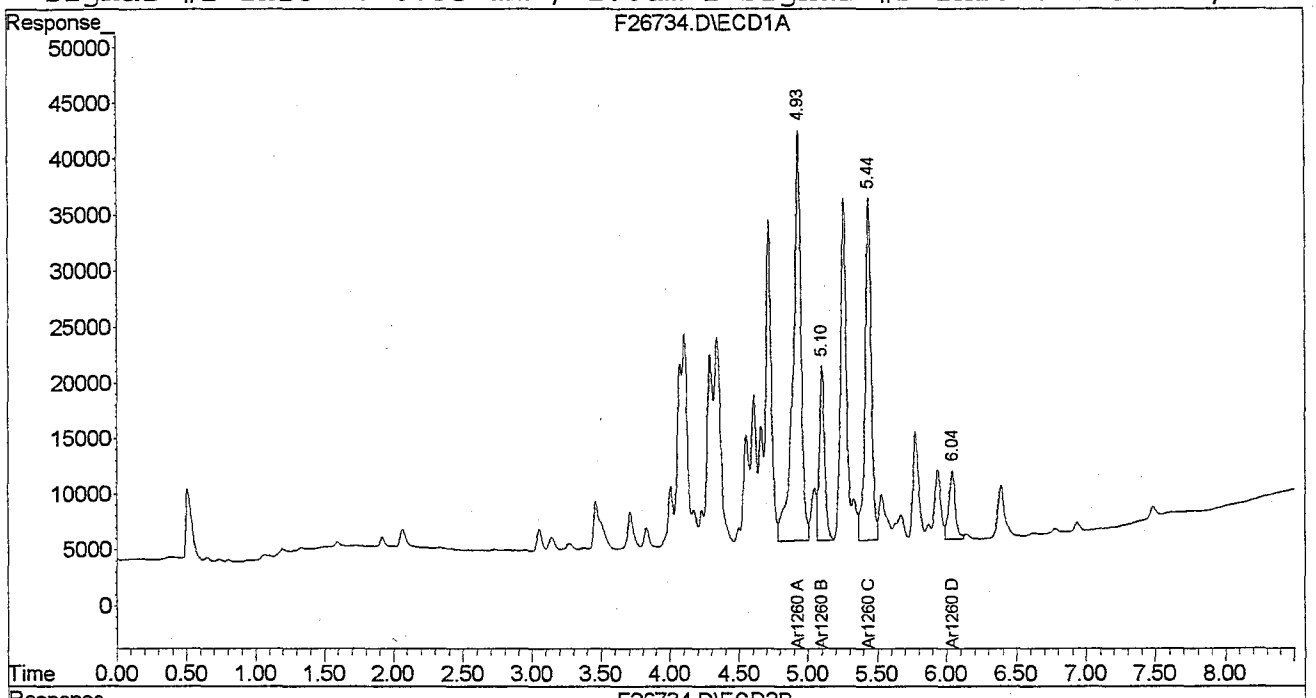
* Values outside of QC limits

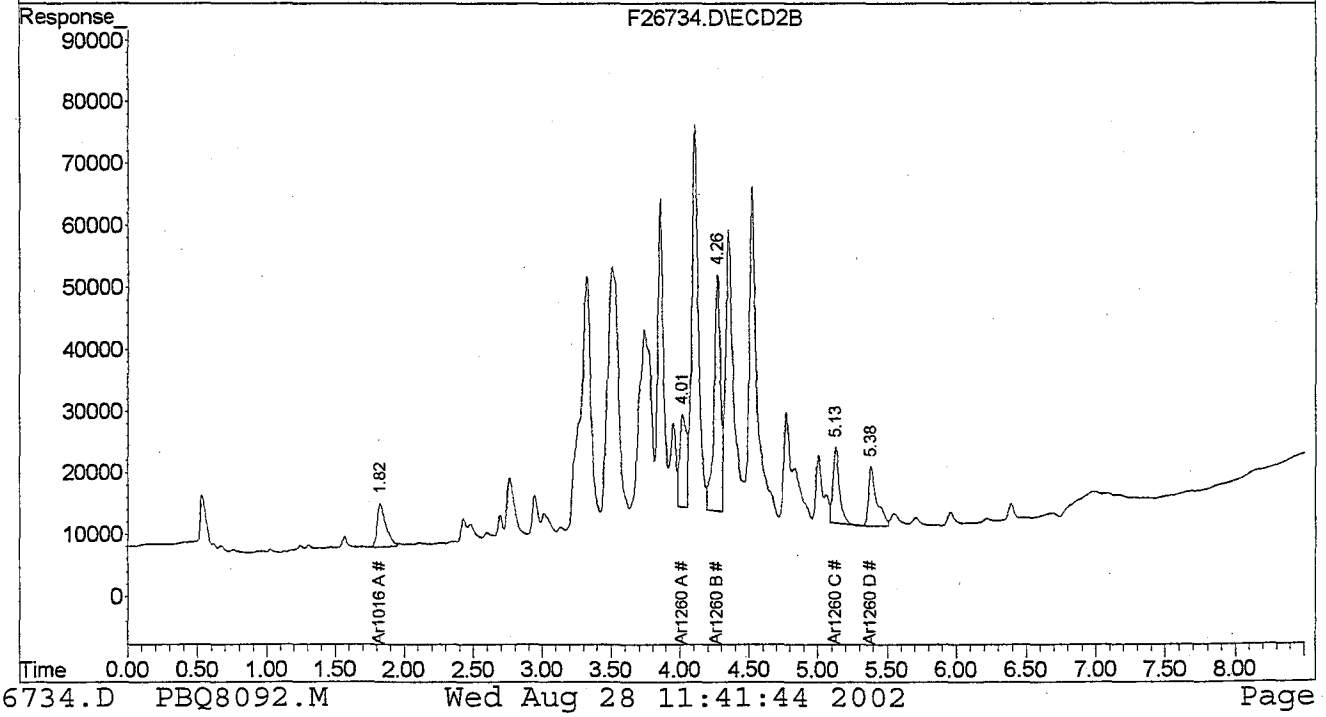
Quantitation Report (Not Reviewed)

Signal #1 : D:\HPCHEM\2\DATA\082702-F\F26734.D\ECD1A.CH Vial: 55
Signal #2 : D:\HPCHEM\2\DATA\082702-F\F26734.D\ECD2B.CH
Acq On : 28 Aug 2002 11:11 am Operator:
Sample : 48150-10 1:200 Inst : Instrume
Misc : SOIL Multiplr: 1.00
IntFile Signal #1: PCBINT.E IntFile Signal #2: PCBINT2.E
Quant Time: Aug 28 11:41 2002 Quant Results File: PBQ8092.RES

Quant Method : D:\HPCHEM\2\METHODS\PBQ8092.M (Chemstation Integrator)
Title : Aroclor 1016/1260
Last Update : Wed Aug 28 09:55:15 2002
Response via : Multiple Level Calibration
DataAcq Meth : PCB.M

Volume Inj. : 3 ul
Signal #1 Phase : DB-1701 Widebore Signal #2 Phase: DB-5 Widebore
Signal #1 Info : 0.53 mm , 1.0um f Signal #2 Info : 0.53 mm, 1.5um fil





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August 28, 2002

SAMPLE DATA

Lab Sample ID:	48150-11
Matrix:	Solid
Percent Solid:	75
Dilution Factor:	1.3
Collection Date:	08/27/02
Lab Receipt Date:	08/27/02
Extraction Date:	08/27/02
Analysis Date:	08/28/02

CLIENT SAMPLE ID

Project Name:	PCB C/U BLDG 335
Project Number:	CTO-03
Field Sample ID:	CS-3-4-NSW-2

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/kg	Results µg/kg
PCB-1016	20	U
PCB-1221	20	U
PCB-1232	20	U
PCB-1242	20	U
PCB-1248	20	U
PCB-1254	20	**175**
PCB-1260	20	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	75	%
Decachlorobiphenyl	89	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3545.

COMMENTS: Results are expressed on a dry weight basis.

PCB Report

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PCB CONFIRMATION RESULTS

Quote#: SDG: 48150

Project No: CTO 03 Site ID: PCB C/U Bldg 335 Location: Topsham, ME

Instrument ID: F GC Columns: RTX-CLPesticidesI ID: 0.53(mm)

RTX-CLPesticidesII

Sample ID: 48150-11

COMPOUND	RESPONSE #1 (ug/kg)	RESPONSE #2 (ug/kg)	DIFFERENCE %	#	% DIFFERENCE Acceptance Limit
PCB 1254	175	172	2		40

Column to be used to flag % Difference with an asterisk

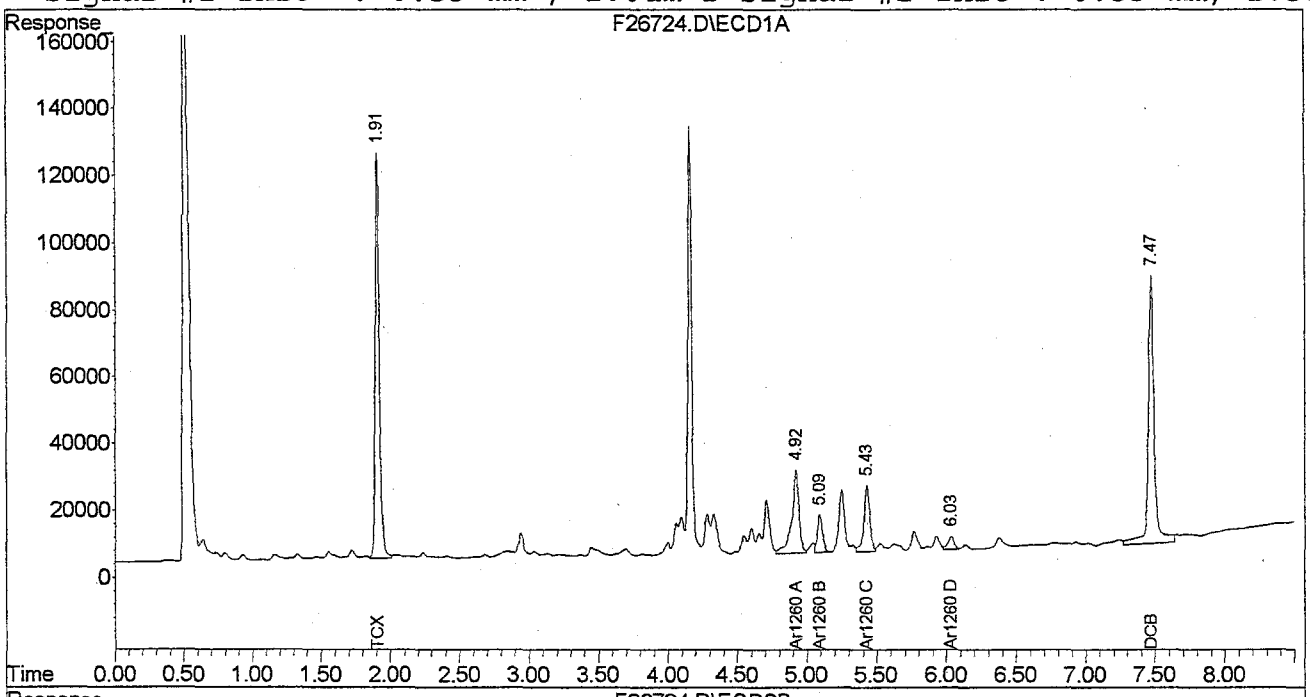
* Values outside of QC limits

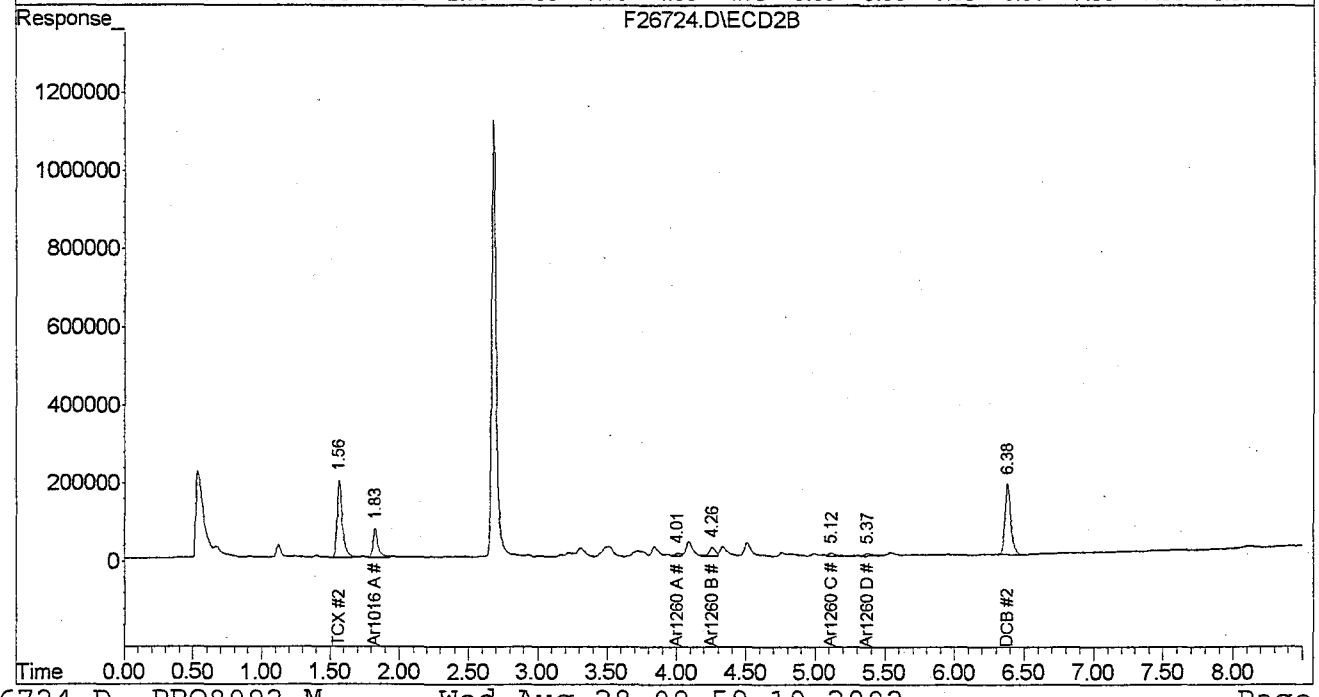
Quantitation Report (Not Reviewed)

Signal #1 : D:\HPCHEM\2\DATA\082702-F\F26724.D\ECD1A.CH Vial: 46
Signal #2 : D:\HPCHEM\2\DATA\082702-F\F26724.D\ECD2B.CH
Acq On : 28 Aug 2002 5:52 am Operator:
Sample : 48150-11 Inst : Instrume
Misc : SOIL Multiplr: 1.00
IntFile Signal #1: PCBINT.E IntFile Signal #2: PCBINT2.E
Quant Time: Aug 28 9:58 2002 Quant Results File: PBQ8092.RES

Quant Method : D:\HPCHEM\2\METHODS\PBQ8092.M (Chemstation Integrator)
Title : Aroclor 1016/1260
Last Update : Wed Aug 28 09:55:15 2002
Response via : Multiple Level Calibration
DataAcq Meth : PCB.M

Volume Inj. : 3 ul
Signal #1 Phase : DB-1701 Widebore Signal #2 Phase: DB-5 Widebore
Signal #1 Info : 0.53 mm , 1.0um f Signal #2 Info : 0.53 mm, 1.5um fil





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August 28, 2002

SAMPLE DATA

CLIENT SAMPLE ID

Project Name: PCB C/U BLDG 335

Project Number: CTO-03

Field Sample ID: CS-3-5-ESW-1

Lab Sample ID: 48150-12
Matrix: Solid
Percent Solid: 85
Dilution Factor: 1.2
Collection Date: 08/27/02
Lab Receipt Date: 08/27/02
Extraction Date: 08/27/02
Analysis Date: 08/28/02

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/kg	Results µg/kg
PCB-1016	18	U
PCB-1221	18	U
PCB-1232	18	U
PCB-1242	18	U
PCB-1248	18	U
PCB-1254	18	535
PCB-1260	18	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	94	%
Decachlorobiphenyl	96	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3545.

COMMENTS: Results are expressed on a dry weight basis.

PCB Report

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PCB CONFIRMATION RESULTS

Quote#: SDG: 48150

Project No: CTO 03 Site ID: PCB C/U Bldg 335 Location: Topsham, ME

Instrument ID: F GC Columns: RTX-CLPesticidesI ID: 0.53(mm)

RTX-CLPesticidesII

Sample ID: 48150-12

COMPOUND	RESPONSE #1 (ug/kg)	RESPONSE #2 (ug/kg)	DIFFERENCE %	#	% DIFFERENCE Acceptance Limit
PCB 1254	535	554	3		40

Column to be used to flag % Difference with an asterisk

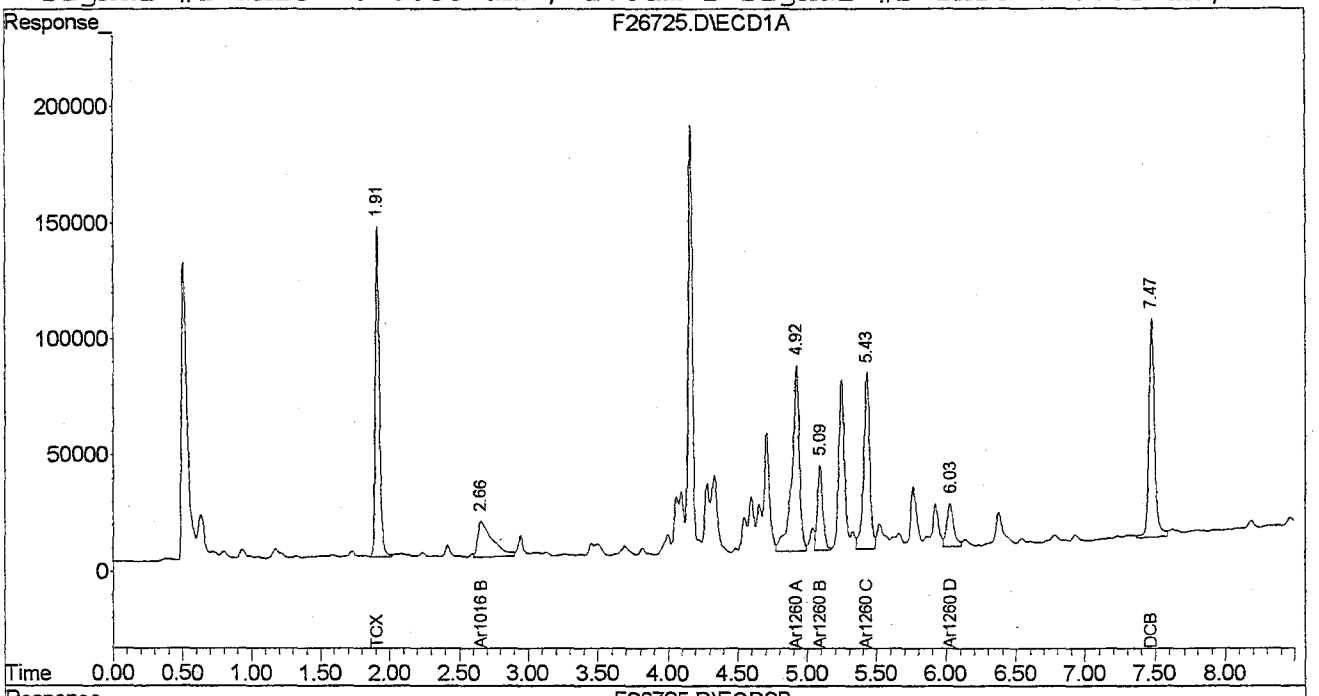
* Values outside of QC limits

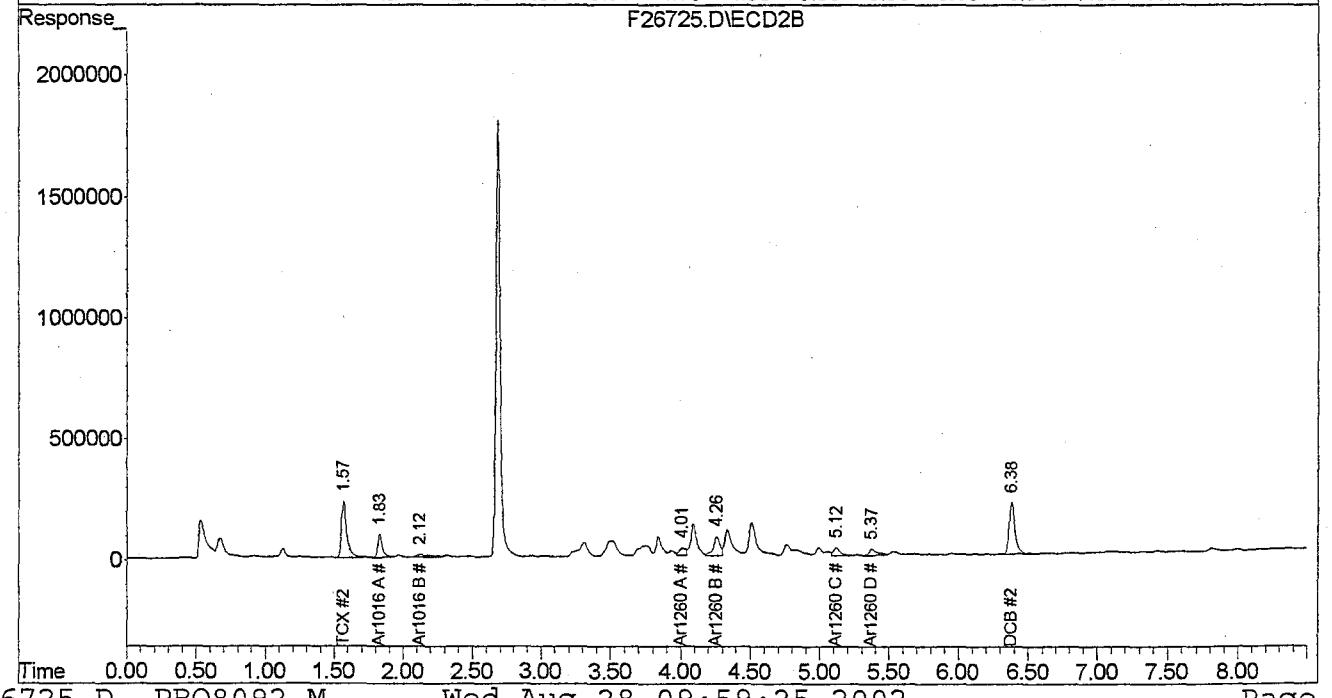
Quantitation Report (Not Reviewed)

Signal #1 : D:\HPCHEM\2\DATA\082702-F\F26725.D\ECD1A.CH Vial: 47
Signal #2 : D:\HPCHEM\2\DATA\082702-F\F26725.D\ECD2B.CH
Acq On : 28 Aug 2002 6:03 am Operator:
Sample : 48150-12 Inst : Instrume
Misc : SOIL Multiplr: 1.00
IntFile Signal #1: PCBINT.E IntFile Signal #2: PCBINT2.E
Quant Time: Aug 28 9:59 2002 Quant Results File: PBQ8092.RES

Quant Method : D:\HPCHEM\2\METHODS\PBQ8092.M (Chemstation Integrator)
Title : Aroclor 1016/1260
Last Update : Wed Aug 28 09:55:15 2002
Response via : Multiple Level Calibration
DataAcq Meth : PCB.M

Volume Inj. : 3 ul
Signal #1 Phase : DB-1701 Widebore Signal #2 Phase: DB-5 Widebore
Signal #1 Info : 0.53 mm , 1.0um f Signal #2 Info : 0.53 mm, 1.5um fil





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August 28, 2002

SAMPLE DATA

Lab Sample ID:	48150-13
Matrix:	Solid
Percent Solid:	78
Dilution Factor:	1.2
Collection Date:	08/27/02
Lab Receipt Date:	08/27/02
Extraction Date:	08/27/02
Analysis Date:	08/28/02

CLIENT SAMPLE ID

Project Name:	PCB C/U BLDG 335
Project Number:	CTO-03
Field Sample ID:	CS-3-5-ESW-2

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/kg	Results µg/kg
PCB-1016	18	U
PCB-1221	18	U
PCB-1232	18	U
PCB-1242	18	U
PCB-1248	18	U
PCB-1254	18	**139**
PCB-1260	18	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	79	%
Decachlorobiphenyl	81	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3545.

COMMENTS: Results are expressed on a dry weight basis.

PCB Report

Authorized signature

analytics environmental laboratory LLC

PCB CONFIRMATION RESULTS

Quote#:

SDG: 48150

Project No: CTO 03

Site ID: PCB C/U Bldg 335

Location: Topsham, ME

Instrument ID: F

GC Columns: RTX-CLPesticidesI
RTX-CLPesticidesII

ID: 0.53(mm)

Sample ID: 48150-13

COMPOUND	RESPONSE #1 (ug/kg)	RESPONSE #2 (ug/kg)	DIFFERENCE %	#	% DIFFERENCE Acceptance Limit
PCB 1254	139	140	1		40

Column to be used to flag % Difference with an asterisk

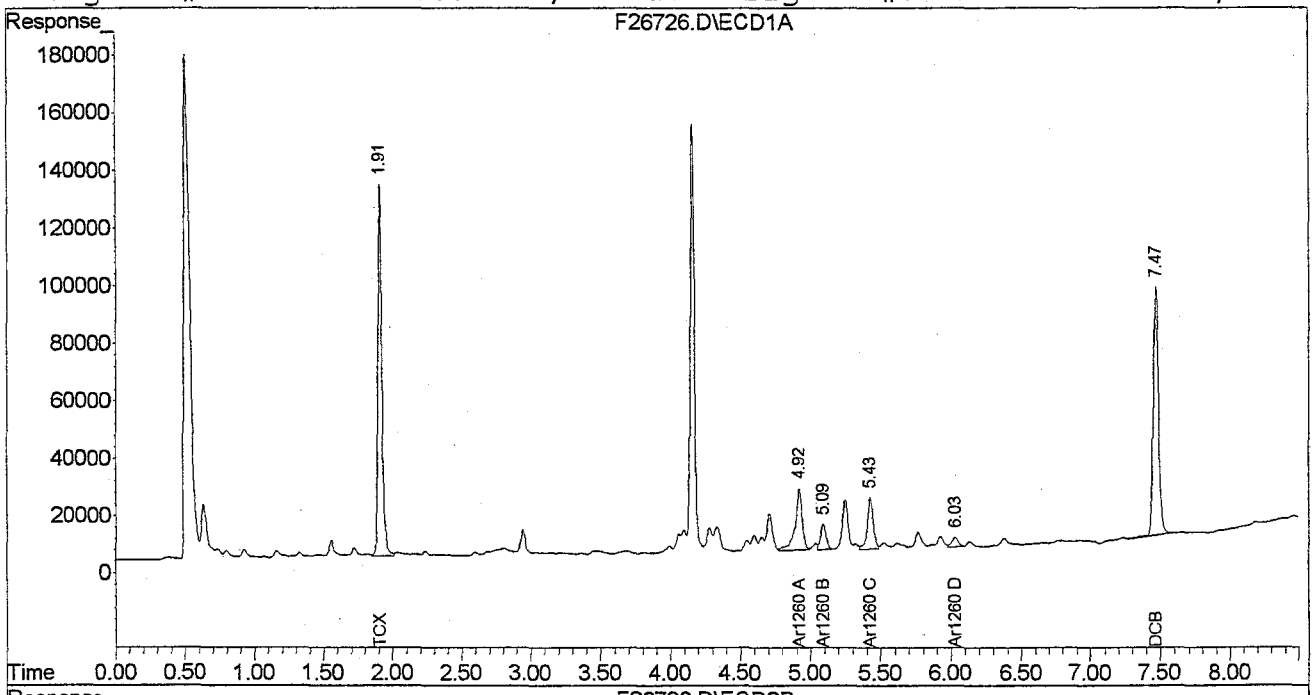
* Values outside of QC limits

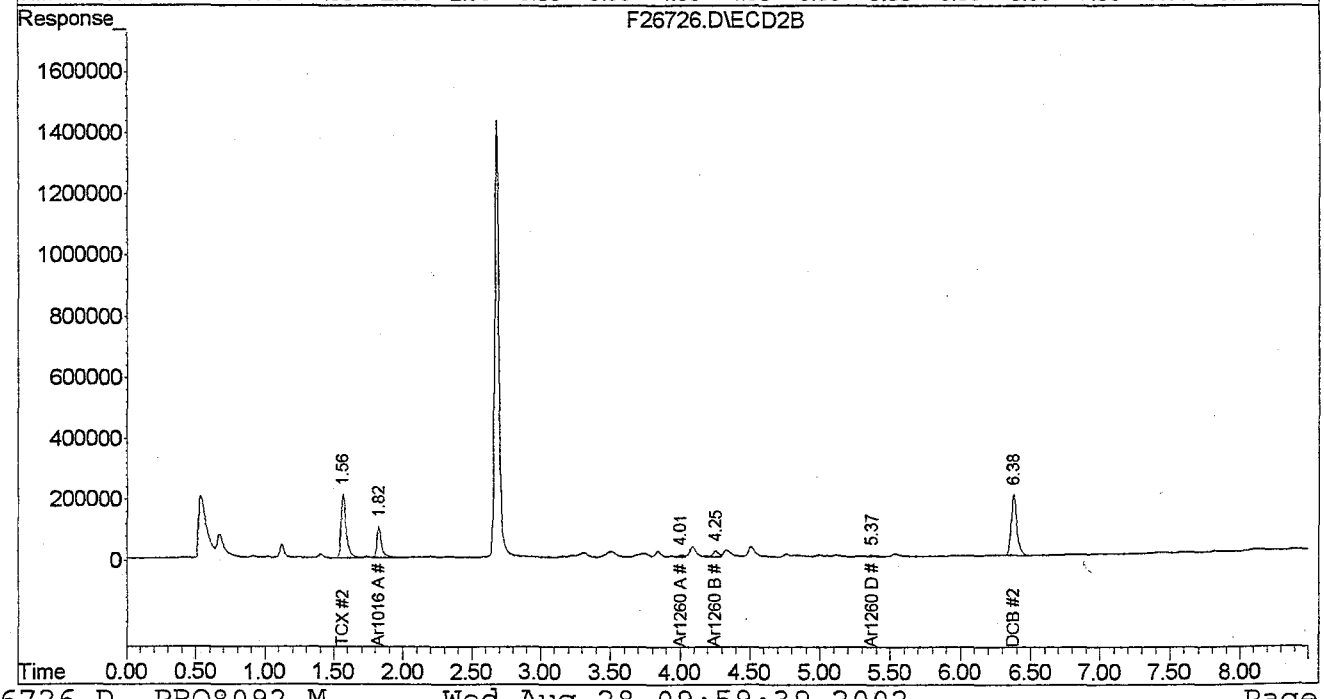
Quantitation Report (Not Reviewed)

Signal #1 : D:\HPCHEM\2\DATA\082702-F\F26726.D\ECD1A.CH Vial: 48
Signal #2 : D:\HPCHEM\2\DATA\082702-F\F26726.D\ECD2B.CH
Acq On : 28 Aug 2002 6:15 am Operator:
Sample : 48150-13 Inst : Instrume
Misc : SOIL Multiplr: 1.00
IntFile Signal #1: PCBINT.E IntFile Signal #2: PCBINT2.E
Quant Time: Aug 28 9:59 2002 Quant Results File: PBQ8092.RES

Quant Method : D:\HPCHEM\2\METHODS\PBQ8092.M (Chemstation Integrator)
Title : Aroclor 1016/1260
Last Update : Wed Aug 28 09:55:15 2002
Response via : Multiple Level Calibration
DataAcq Meth : PCB.M

Volume Inj. : 3 ul
Signal #1 Phase : DB-1701 Widebore Signal #2 Phase: DB-5 Widebore
Signal #1 Info : 0.53 mm , 1.0um f Signal #2 Info : 0.53 mm, 1.5um fil





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PCB SOLID
SYSTEM MONITORING COMPOUND RECOVERY

Project #: CTO 03 Quote #: SDG#: 48150

Site ID: PCB C/U Bldg 335 Location: Topsham, ME

Instrument ID: F

GC Column: RTX-CLPesticides I ID: 0.53(mm)
RTX-CLPesticides II

		COLUMN #1				COLUMN #2				TOT	
	SAMPLE ID	SMC1	#	SMC2	#	SMC1	#	SMC2	#	OUT	#
01	ZZZZZ	NA		NA		NA		NA		0	
02	P2692 16/60 0.02	NA		NA		NA		NA		0	
03	P2693 16/60 0.05	NA		NA		NA		NA		0	
04	P2694 16/60 0.1	NA		NA		NA		NA		0	
05	P2695 16/60 0.5	111		109		122		131		0	
06	P2696 16/60 1.0	NA		NA		NA		NA		0	
07	ZZZZZ	NA		NA		NA		NA		0	
08	P2677 1221 1.0	NA		NA		NA		NA		0	
09	P2678 1232 1.0	NA		NA		NA		NA		0	
10	P2679 1242 1.0	NA		NA		NA		NA		0	
11	P2682 1248 1.0	NA		NA		NA		NA		0	
12	P2680 1254 1.0	NA		NA		NA		NA		0	
13	ZZZZZ	102		105		112		100		0	
14	ZZZZZ	NA		NA		NA		NA		0	
15	ZZZZZ	98		109		90		99		0	
16	ZZZZZ	98		108		94		98		0	
17	ZZZZZ	91		99		86		91		0	
18	ZZZZZ	82		86		80		83		0	
19	ZZZZZ	85		100		84		95		0	
20	ZZZZZ	85		100		97		96		0	
21	ZZZZZ	85		90		83		89		0	
22	ZZZZZ	72		84		71		82		0	
23	ZZZZZ	79		94		76		90		0	
24	ZZZZZ	80		81		65		68		0	
25	ZZZZZ	73		85		67		77		0	
26	ZZZZZ	80		92		77		89		0	
27	ZZZZZ	81		95		77		86		0	
28	ZZZZZ	75		89		72		80		0	
29	ZZZZZ	80		89		76		83		0	
30	ZZZZZ	86		97		81		94		0	
31	P2695 16/60 0.5	107		108		105		107		0	
32											
33											
34											
35											

SMC1 = TCX 49-134
SMC2 = DCB 69-155

Column to be used to flag recovery values
* Values outside of protocol required QC limits
D System Monitoring Compound diluted out

analytics environmental laboratory LLC

PCB SOLID
SYSTEM MONITORING COMPOUND RECOVERY

Project #: CTO 03 Quote #: SDG#: 48150

Site ID: PCB C/U Bldg 335 Location: Topsham, ME

Instrument ID: F

GC Column: RTX-CLPesticides I ID: 0.53(mm)
RTX-CLPesticides II

		COLUMN #1				COLUMN #2				TOT	
	SAMPLE ID	SMC1	#	SMC2	#	SMC1	#	SMC2	#	OUT	#
01	P2695 16/60 0.5	105		107		95		99		0	
02	B08272PAS	104		110		98		104		0	
03	L08272PAB	102		111		94		101		0	
04	LD08272PAB	103		112		94		102		0	
05	48150-1	97		99		92		94		0	
06	48150-2	90		92		84		87		0	
07	48150-3	87		90		80		82		0	
08	48150-4	137	*	112		121		100		1	
09	48150-5	93		92		85		87		0	
10	48150-6	89		108		85		83		0	
11	ZZZZZ	101		101		96		93		0	
12	ZZZZZ	91		121		83		91		0	
13	48150-9	95		117		89		84		0	
14	ZZZZZ	89		96		82		81		0	
15	48150-11	75		89		70		66	*	1	
16	48150-12	94		96		87		81		0	
17	48150-13	79		81		72		72		0	
18	48150-13 MS	62		61	*	56		51	*	2	
19	48150-13 MSD	62		65	*	55		50	*	2	
20	ZZZZZ	99		100		93		91		0	
21	ZZZZZ	103		106		97		98		0	
22	P2695 16/60 0.5	104		105		95		97		0	
23											
24											
25											
26											
27											
28											
29											
30											
31											
32											
33											
34											
35											

SMC1 = TCX 49-134
SMC2 = DCB 69-155

Column to be used to flag recovery values
* Values outside of protocol required QC limits
D System Monitoring Compound diluted out

analytics environmental laboratory LLC

PCB SOLID
SYSTEM MONITORING COMPOUND RECOVERY

Project #: CTO 03 Quote #: SDG#: 48150

Site ID: PCB C/U Bldg 335 Location: Topsham, ME

Instrument ID: F

GC Column: RTX-CLPesticides I ID: 0.53(mm)
RTX-CLPesticides II

		COLUMN #1				COLUMN #2				TOT	
	SAMPLE ID	SMC1	#	SMC2	#	SMC1	#	SMC2	#	OUT	#
01	P2695 16/60 0.5	104		105		95		97		0	
02	48150-7 1:10	D		D		D		D		0	
03	48150-8 1:10	D		D		D		D		0	
04	48150-10 1:200	D		D		D		D		0	
05	P2695 16/60 0.5	106		111		99		102		0	
06											
07											
08											
09											
10											
11											
12											
13											
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31											
32											
33											
34											
35											

SMC1 = TCX 49-134
SMC2 = DCB 69-155

Column to be used to flag recovery values
* Values outside of protocol required QC limits
D System Monitoring Compound diluted out

analytics environmental laboratory LLC

PCB SOLID
LABORATORY CONTROL SPIKE/ DUPLICATE
PERCENT RECOVERY

Project #: CTO 03 Quote #: SDG#: 48150

Site ID: PCB C/U Bldg 335 Location: Topsham, ME

Instrument ID: F

GC Column: RTX-CLPesticides I ID: 0.53(mm)

RTX-CLPesticides II

Laboratory Control Spike/Duplicate Sample ID: L08272PAB\LD08272PAB

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENTRATION (ug/kg)	LCS CONCENTRATION (ug/kg)	LCS RECOVERY % #	QC LIMITS % REC
PCB 1016	267	U	290	109	52-127
PCB 1260	267	U	302	113	68-159
PCB 1016 #2	267	U	307	115	57-131
PCB 1260 #2	267	U	274	103	56-139

COMPOUND	SPIKE ADDED (ug/kg)	LCSD CONCENTRATION (ug/kg)	LCSD % REC #	RPD #	QC LIMITS RPD	QC LIMITS % REC.
PCB 1016	267	293	110	1	50	52-127
PCB 1260	267	303	114	0	50	68-159
PCB 1016 #2	267	293	110	5	50	57-131
PCB 1260 #2	267	281	105	2	50	56-139

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits
RPD: 0 out of 4 outside limits
Spike Recovery:0 out of 8 outside limits

Comments: _____

analytics environmental laboratory LLC

PCB SOLID
MATRIX SPIKE/ DUPLICATE
PERCENT RECOVERY

Project #: CTO 03 Quote #: SDG#: 48150

Site ID: PCB C/U Bldg 335 Location: Topsham, ME

Instrument ID: F

GC Column: RTX-CLPesticides I ID: 0.53(mm)

RTX-CLPesticides II

Matrix Spike/Duplicate Sample ID: 48150-13

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENTRATION (ug/kg)	MS CONCENTRATION (ug/kg)	MS RECOVERY %	#	QC LIMITS % REC
PCB 1016	321	U	236	73		52-127
PCB 1260	321	U	264	82		68-159
PCB 1016 #2	321	U	217	68		57-131
PCB 1260 #2	321	U	194	60		56-139

COMPOUND	SPIKE ADDED (ug/kg)	MSD CONCENTRATION (ug/kg)	MSD % REC	#	RPD	#	QC LIMITS RPD	QC LIMITS % REC.
PCB 1016	321	247	77		5		50	52-127
PCB 1260	321	321	100		20		50	68-159
PCB 1016 #2	321	232	72		6		50	57-131
PCB 1260 #2	321	200	62		3		50	56-139

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits
RPD: 0 out of 4 outside limits
Spike Recovery: 0 out of 8 outside limits

Comments: _____

TES1/1 CB/HERB Instrument: F

Load: See

Unload: _____

080902-F

Data File	Vial	Sample	Dil	Method	Comments
F26112	100	HEXANE		PB080892-M	
13	1	P2692 16/60 0.02			NOT USED
14	2	P2692 16/60 0.02			✓
15	2	P2693 16/60 0.05			✓
16	3	P2694 16/60 0.1			✓
17	4	P2695 16/60 0.5			✓
18	5	P2696 16/60 1.0			✓
19	6	P2598 16/60 cc			✓
20	7	P2677 1221 1.0			for, open lines & SP &
21	8	P2678 1232 1.0			
22	9	P2679 1242 1.0			
23	10	P2682 1248 1.0			
24	11	P2680 1254 1.0			
25	12	B080892PAS			✓
26A *	13	L080892PASB			✓
27	14	L080892PASB			✓
28	15	48041-2			✓
29	16	-3			✓
30	17	-6			✓
31	18	-7			✓
32	19	-8			✓
33	20	-9			✓
34	21	-10			✓
35	22	-12			✓
36	23	-13			✓
37	24	-14			✓
38	25	-14 MS			E Flag 1016 1760 OK
39	26	-14 MSD			fails

* Faulty auto, 5 grinds stuck

(CONT.)

[048/050

PEST/PCB/HERB Instrument: F

Load: [signature]
Unload: [signature]

[signature] 08

Data File	Vial	Sample	Dil	Method	Comments
F26698	1	P2695 16/60 0.5		PBQ08092.m	✓
99	22	B08052PN		✓	
F26700	23	L08052PN		✓	
1	24	M08052PN-1		✓	
2	25	-2		✓	
3	26	-3		✓	
4	27	-4		✓	
5	28	-5		✓	
6	29	-6		✓	
7	30	-7		✓ ~~DM 1:10~~	
8	31	-8		✓ ~~DM 1:~~	
9	32	-9		✓	
10	1	P2695 16/60 0.5		✓	
11B	33	B08272PAS		✓	
12B	34	L08272PASB		✓	
13B	35	LD08272PASB		✓	
14	36	48150-1		✓	
15	37	-2		✓	
16	38	-3		✓	
17	39	-4		✓	
18	40	-5		✓	
19	41	-6		✓	
20	42	-7		DM 1:10	
21	43	-8		DM 1:10	
22	44	-9		✓	
23	45	-10		DM 1:200	
24	46	-11		✓	
25	47	-12		✓	

Con on next page

PEST/PCB/HERB Instrument: F

Load: [illegible]
Unload: [illegible]

[illegible] 082702-F (CONT.)

Data File	Vial	Sample	Dil	Method	Comments
F26786	48	48150 - 13		PBQ08092 [illegible]	✓
27SP	49	- 13ms			✓
28SP	50	- 13msD			✓
29	51	UB 31203-166			✓
30	52	UB 38505			✓
31	1	P2695 16/60 0.5			✓
32	53	48150-7 1:10			✓ 100uL → 1mL
33	54	-8 1:10			✓ ↓
34	55	-10 1:200			✓ 5uL → 1mL
35	1	P2695 16/60 0.5			✓

8-28-02

[illegible]

analytics environmental laboratory LLC

PCB
INITIAL CALIBRATION DATA

Project #: CTO 03 Quote #: SDG#: 48150

Site ID: PCB C/U Bldg 335 Location: Topsham, ME

Instrument ID: F

GC Column: RTX-CLPesticides I ID: 0.53(mm)

RTX-CLPesticides II

Method Name: PBQ08092.M

Level 1 File Name	F26114.D
Level 2 File Name	F26115.D
Level 3 File Name	F26116.D
Level 4 File Name	F26117.D
Level 5 File Name	F26118.D

Compound	Calibration Fit	R
TCX	Linear	0.999
Ar1016 A	Linear	0.998
Ar1016 B	Linear	0.998
Ar1016 C	Linear	0.999
Ar1260 A	Linear	1.000
Ar1260 B	Linear	0.999
Ar1260 C	Linear	1.000
Ar1260 D	Linear	1.000
DCB	Linear	0.999
TCX #2	Linear	0.999
Ar1016 A #2	Linear	0.998
Ar1016 B #2	Linear	0.996
Ar1016 C #2	Linear	0.998
Ar1260 A #2	Linear	0.998
Ar1260 B #2	Linear	0.998
Ar1260 C #2	Linear	0.999
Ar1260 D #2	Linear	0.998
DCB #2	Linear	0.999

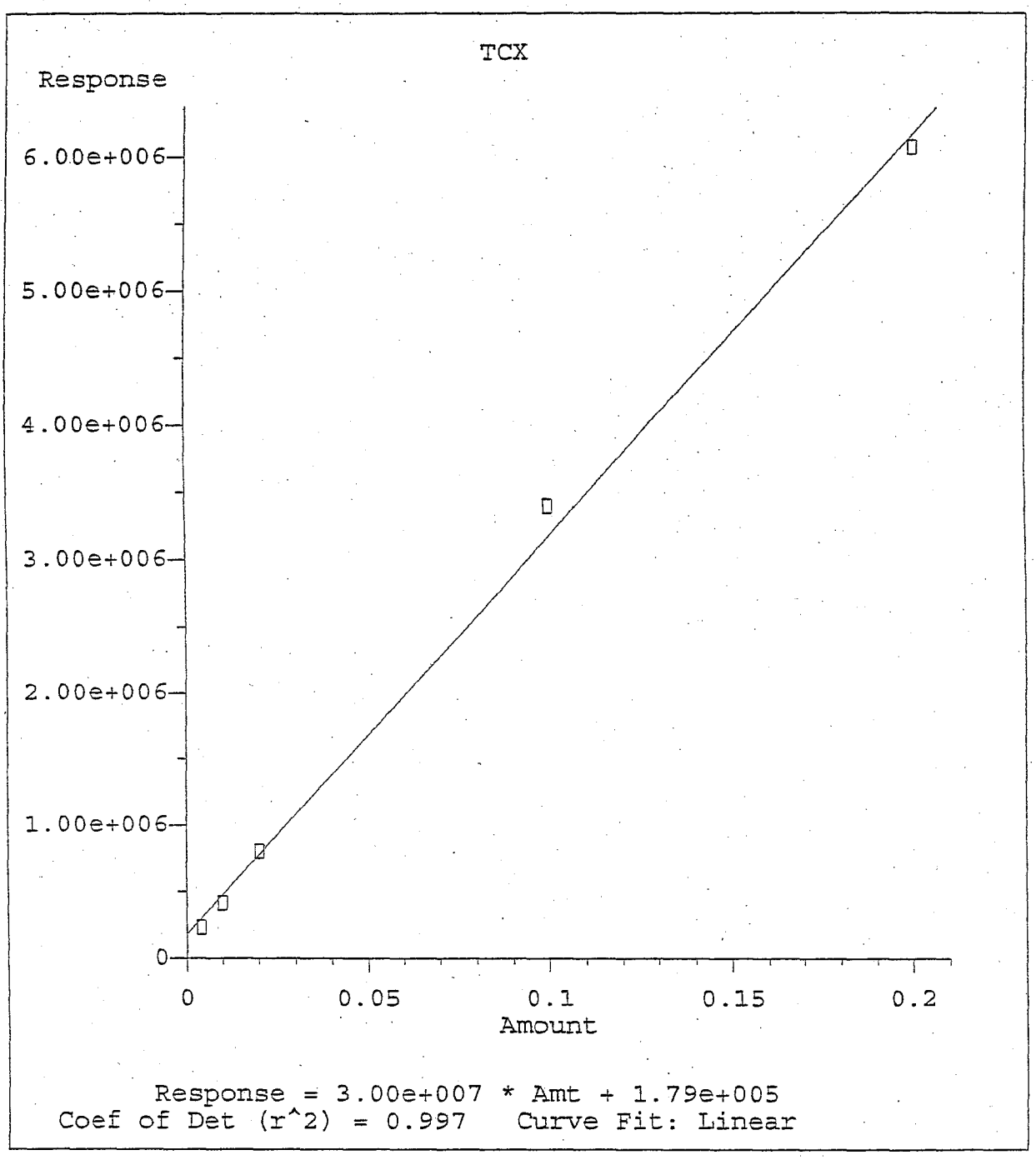
*Compounds must have a %RSD of ≤20% or correlation coefficient of 0.995 or greater.

Comments:

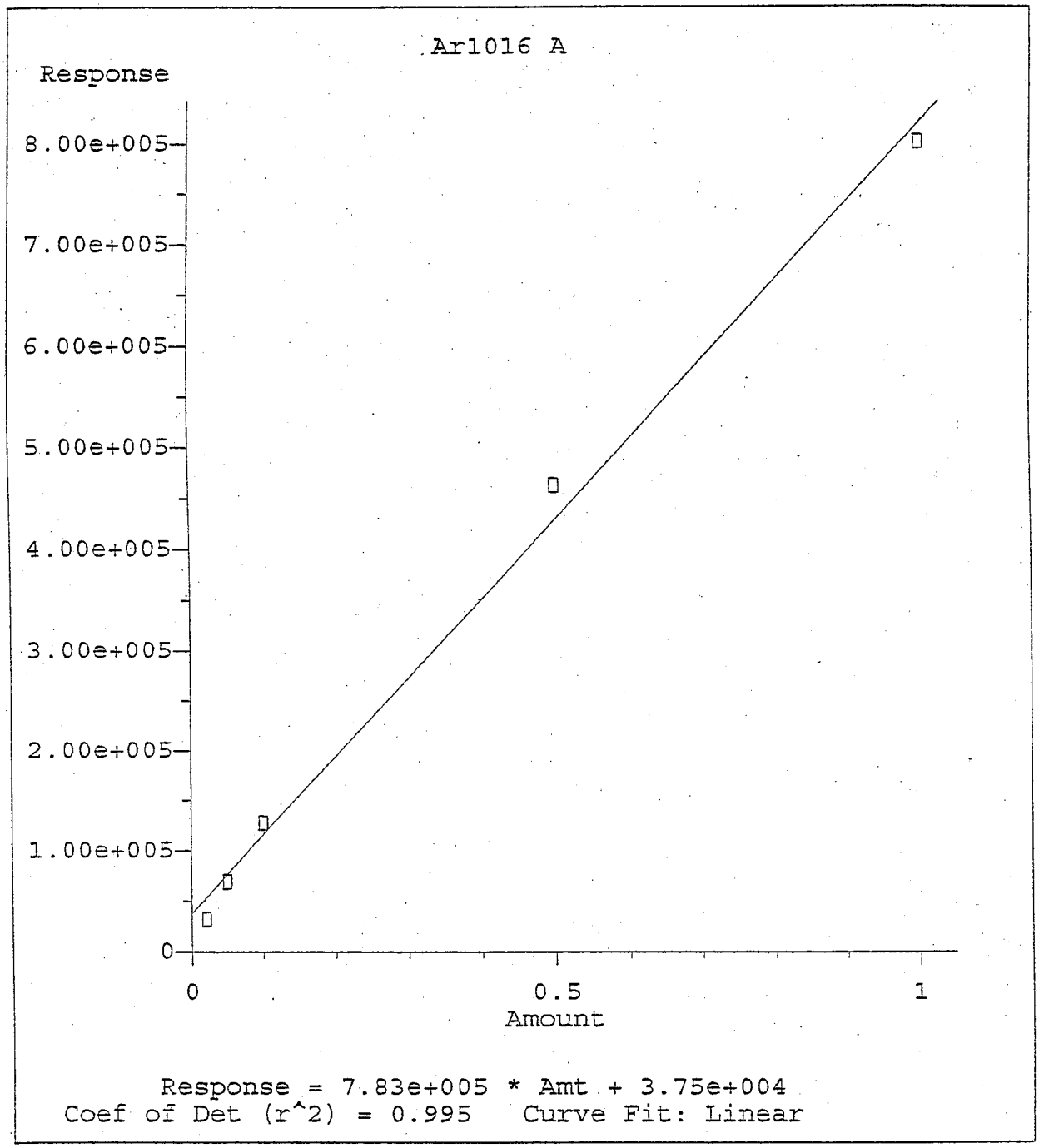
D:\HPCHEM\2\METHODS\PBQ8092.M

Level 1 File Name F26114.D
Level 2 File Name F26115.D
Level 3 File Name F26116.D
Level 4 File Name F26117.D
Level 5 File Name F26118.D

Name	Calibration Fit	R^2	R
TCX	Linear	0.997	0.999
Ar1016 A	Linear	0.995	0.998
Ar1016 B	Linear	0.995	0.998
Ar1016 C	Linear	0.997	0.999
Ar1260 A	Linear	0.999	1.000
Ar1260 B	Linear	0.999	0.999
Ar1260 C	Linear	0.999	1.000
Ar1260 D	Linear	0.999	1.000
DCB	Linear	0.999	0.999
TCX #2	Linear	0.997	0.999
Ar1016 A #2	Linear	0.997	0.998
Ar1016 B #2	Linear	0.992	0.996
Ar1016 C #2	Linear	0.995	0.998
Ar1260 A #2	Linear	0.997	0.998
Ar1260 B #2	Linear	0.997	0.998
Ar1260 C #2	Linear	0.998	0.999
Ar1260 D #2	Linear	0.997	0.998
DCB #2	Linear	0.998	0.999



Method Name: D:\HPCHEM\2\METHODS\PBQ8092.M
Calibration Table Last Updated: Mon Aug 12 13:21:28 2002



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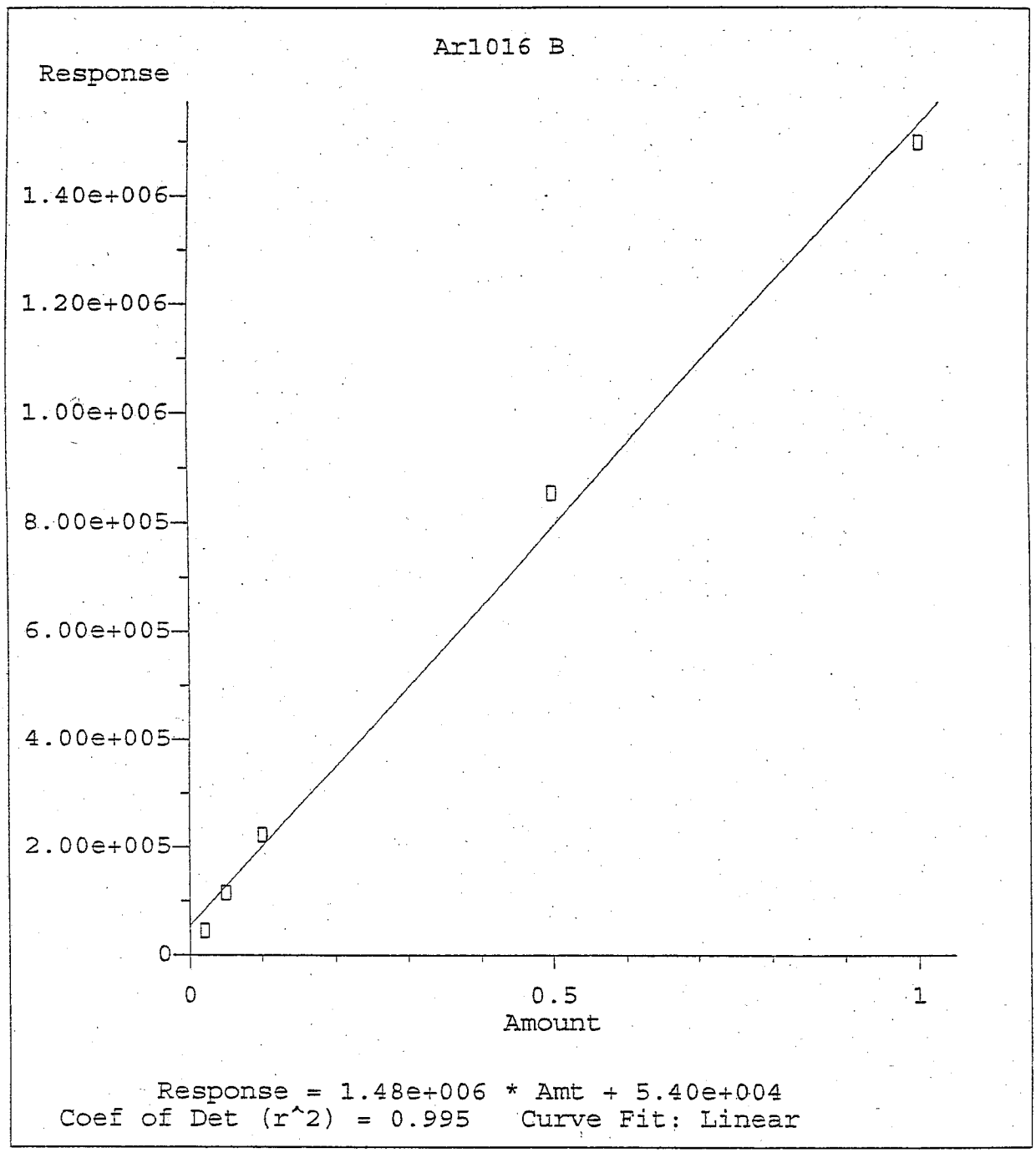
Calibration Table Last Updated: Mon Aug 12 13:21:28 2002



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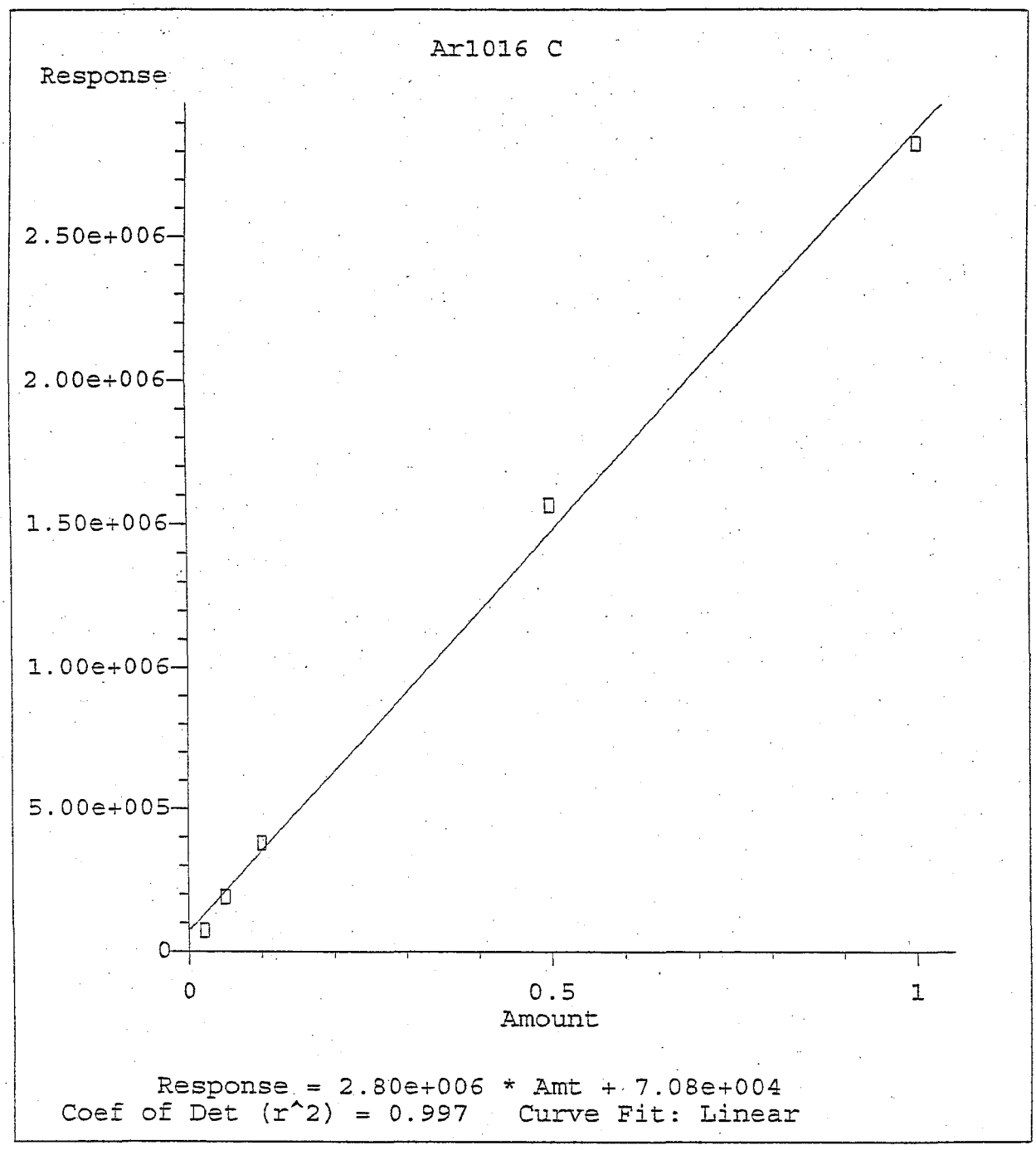

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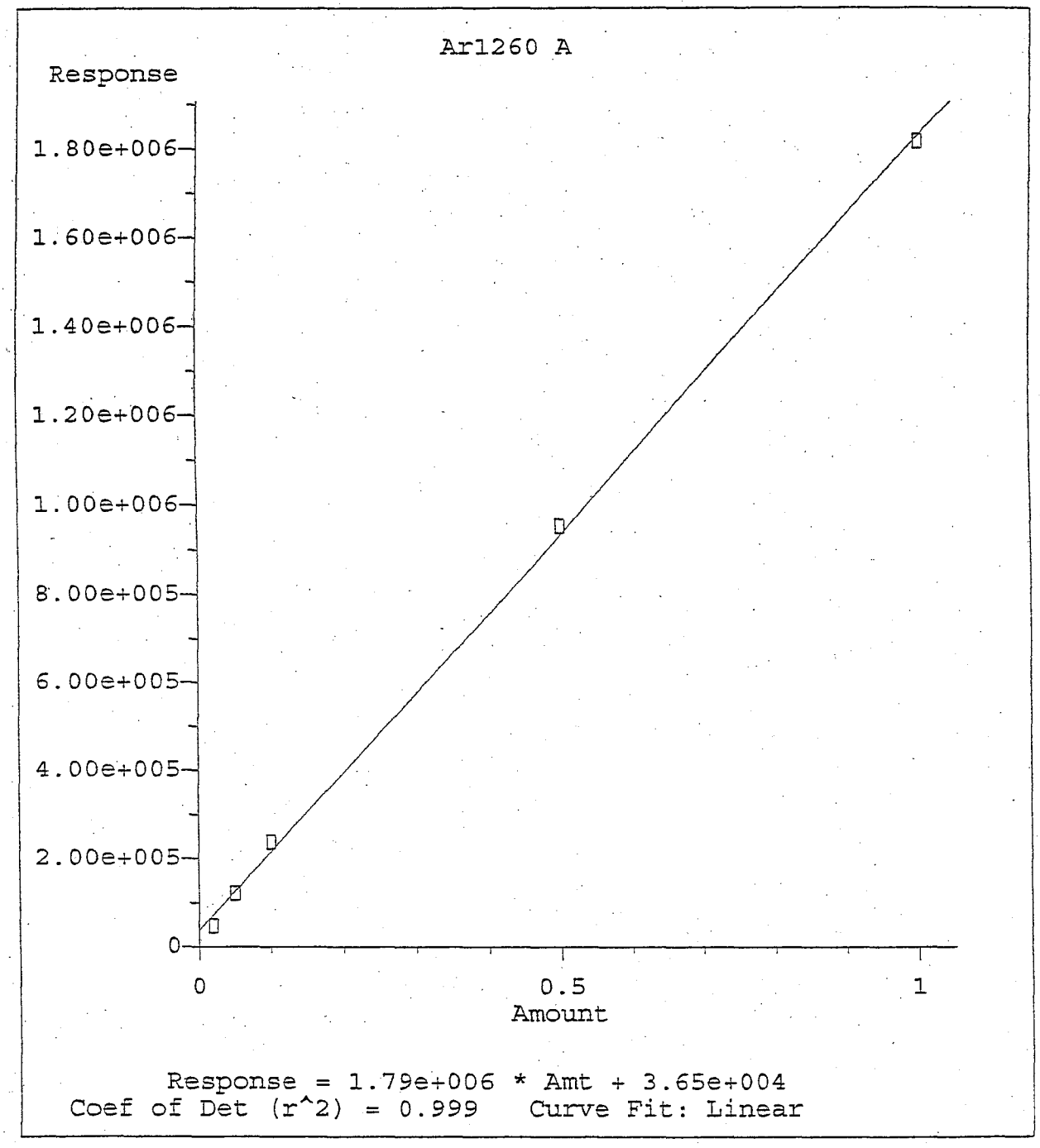

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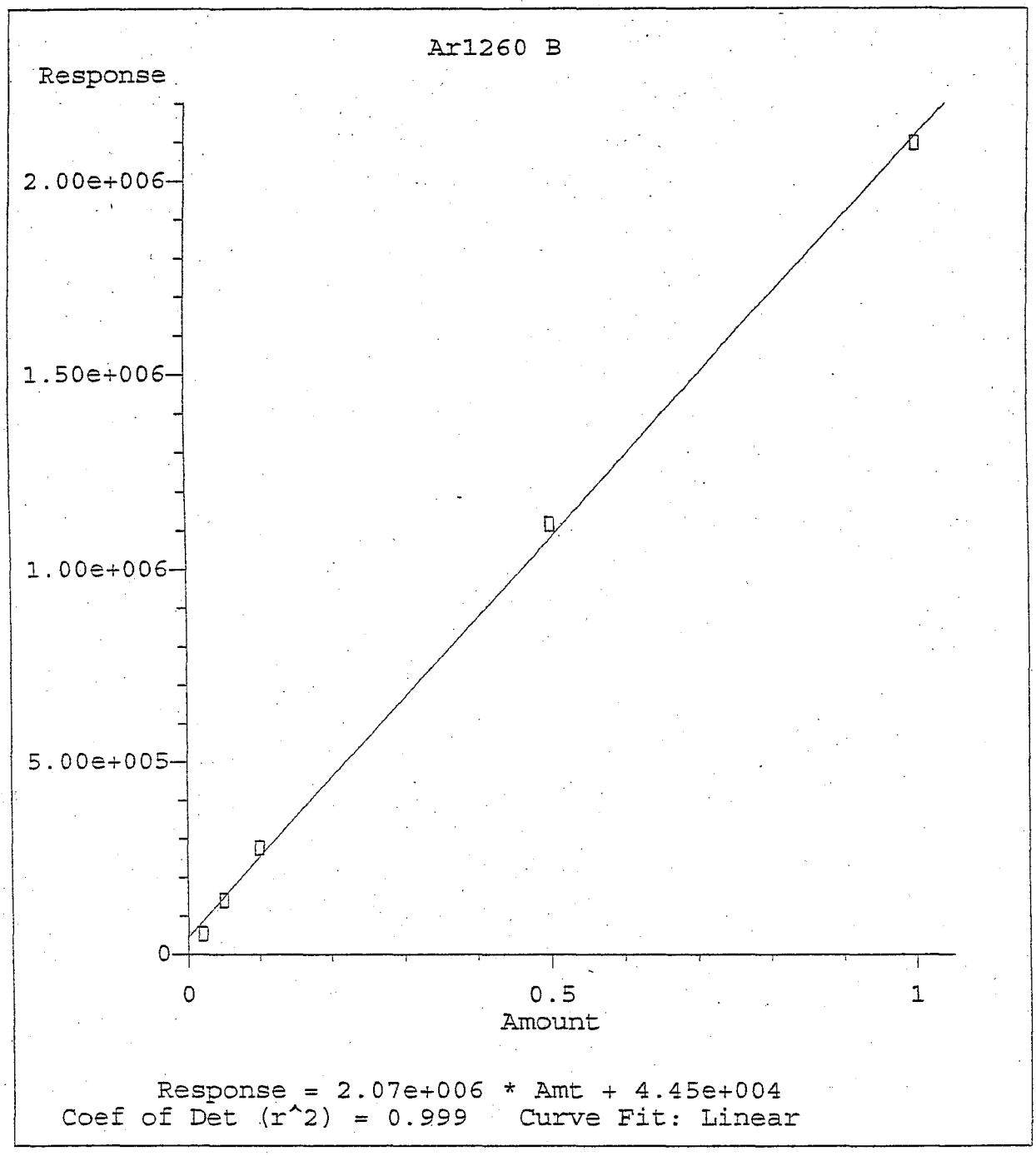
Calibration Table Last Updated: Mon Aug 12 13:21:28 2002



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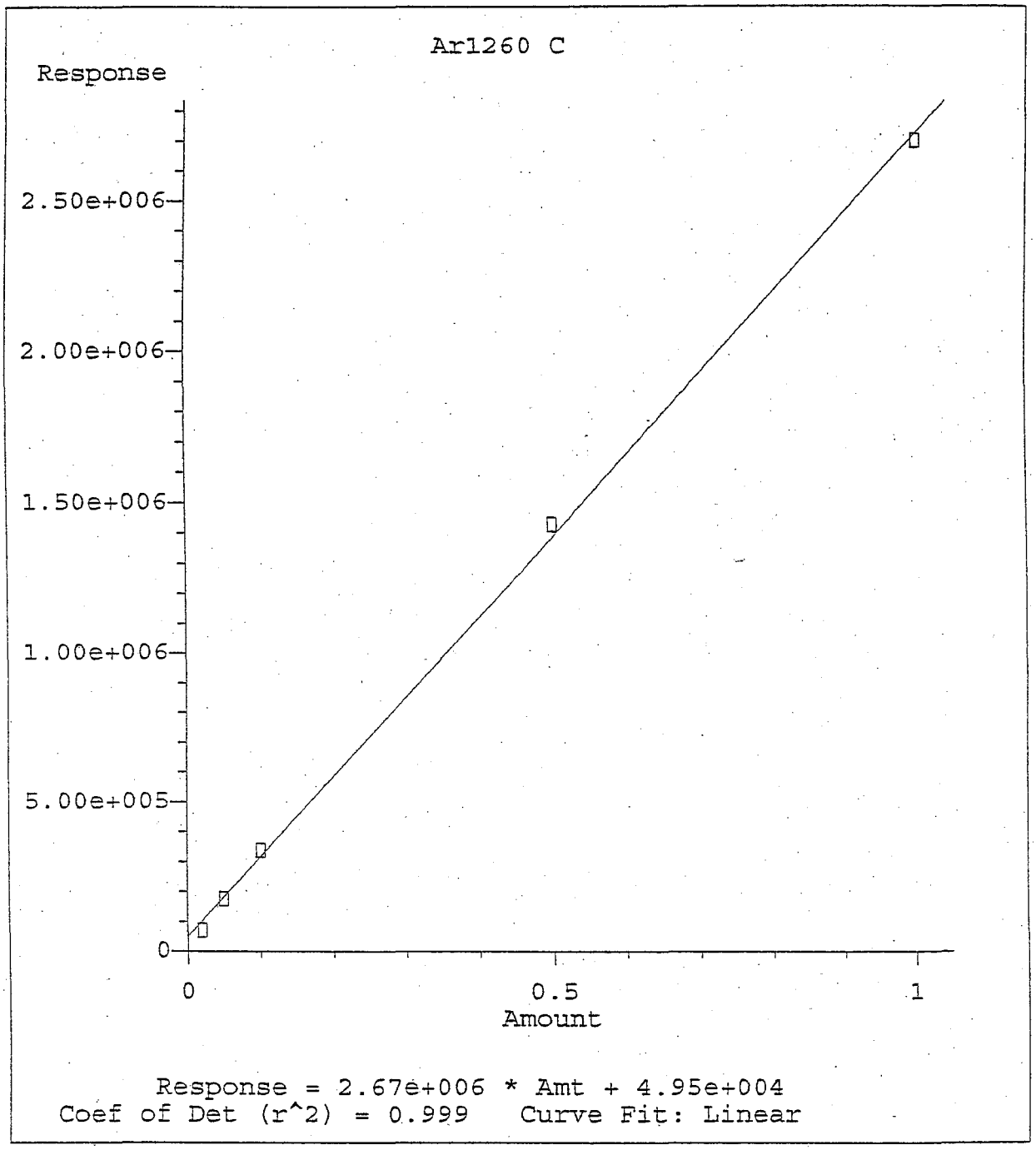

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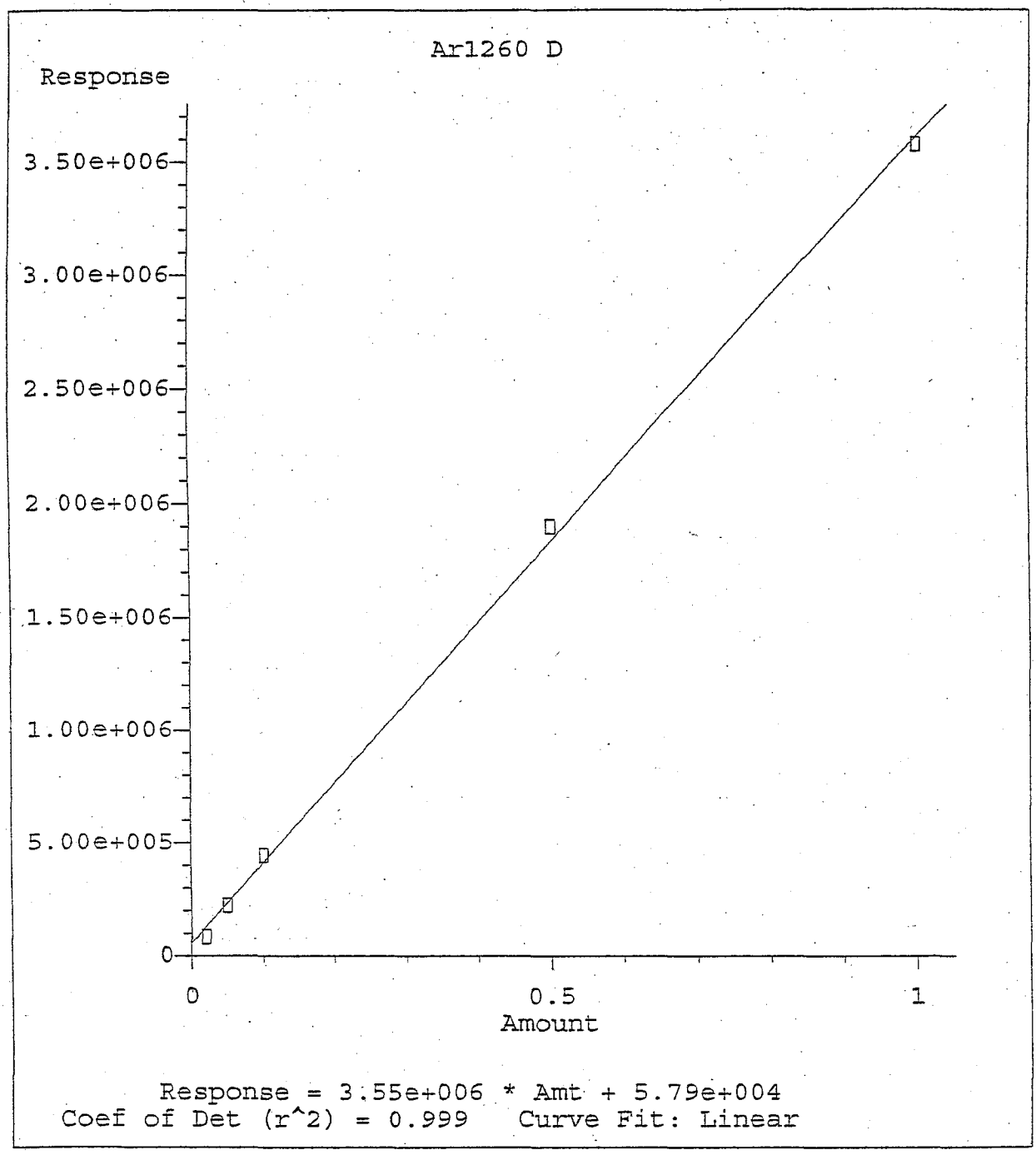

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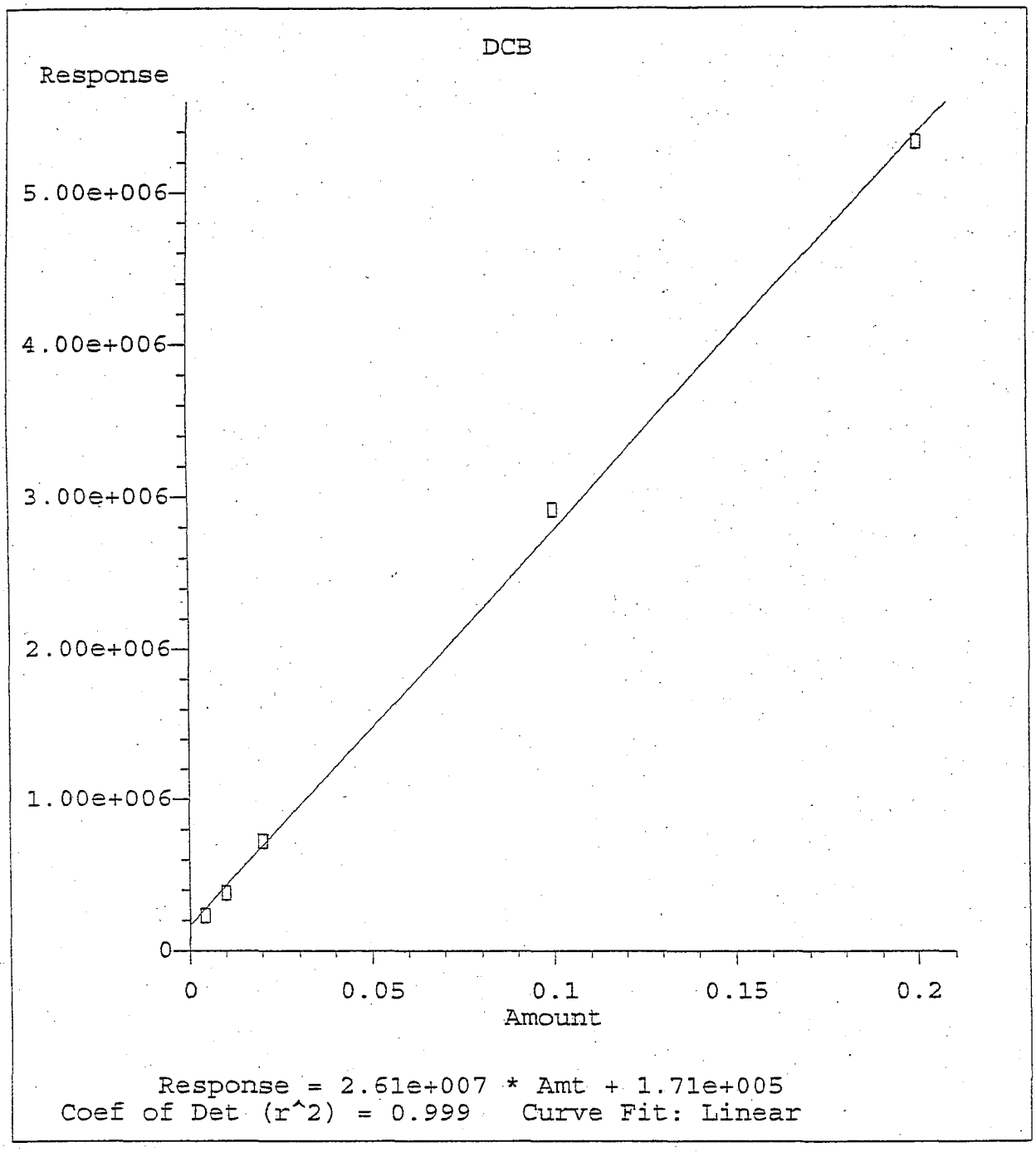

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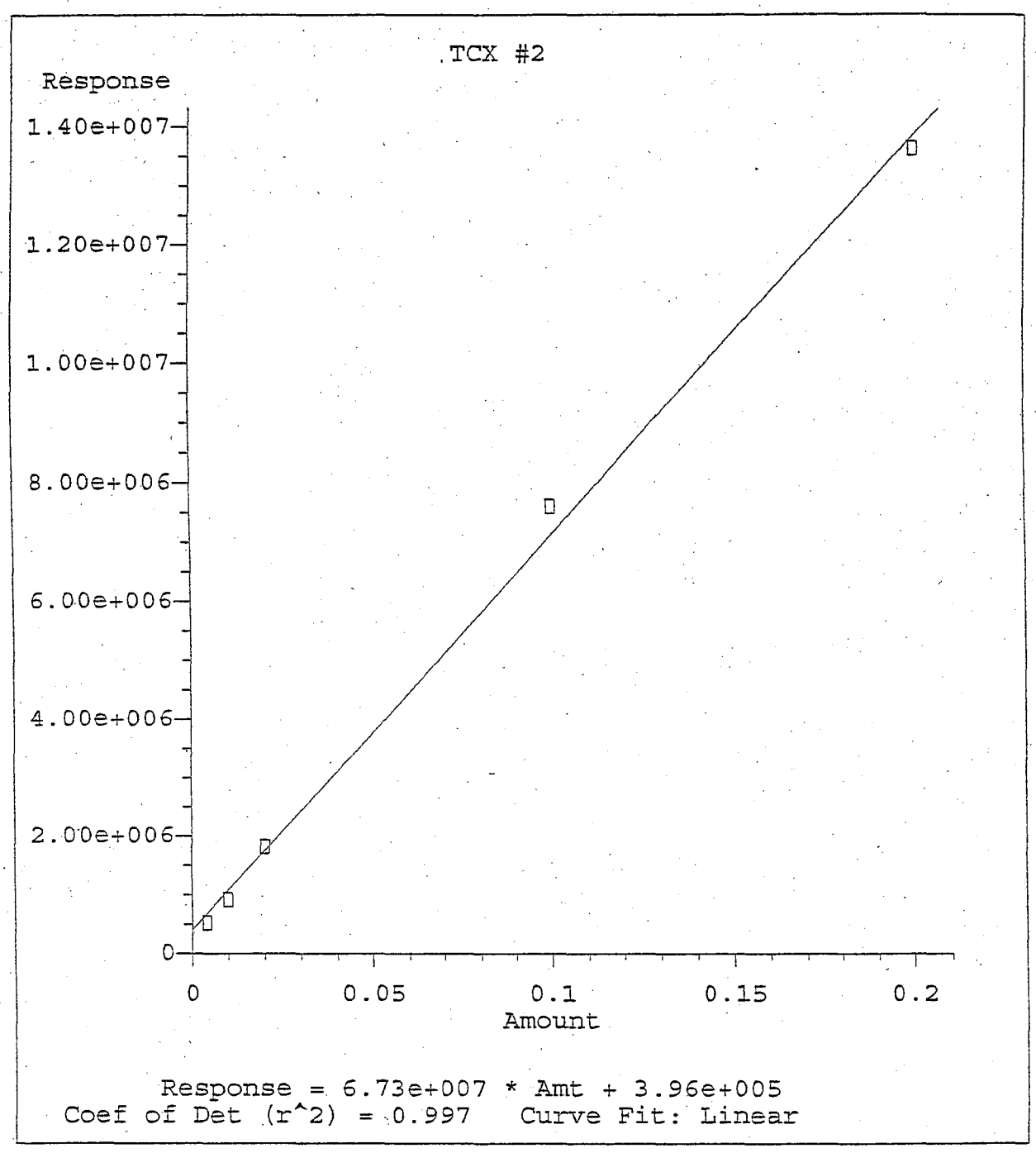

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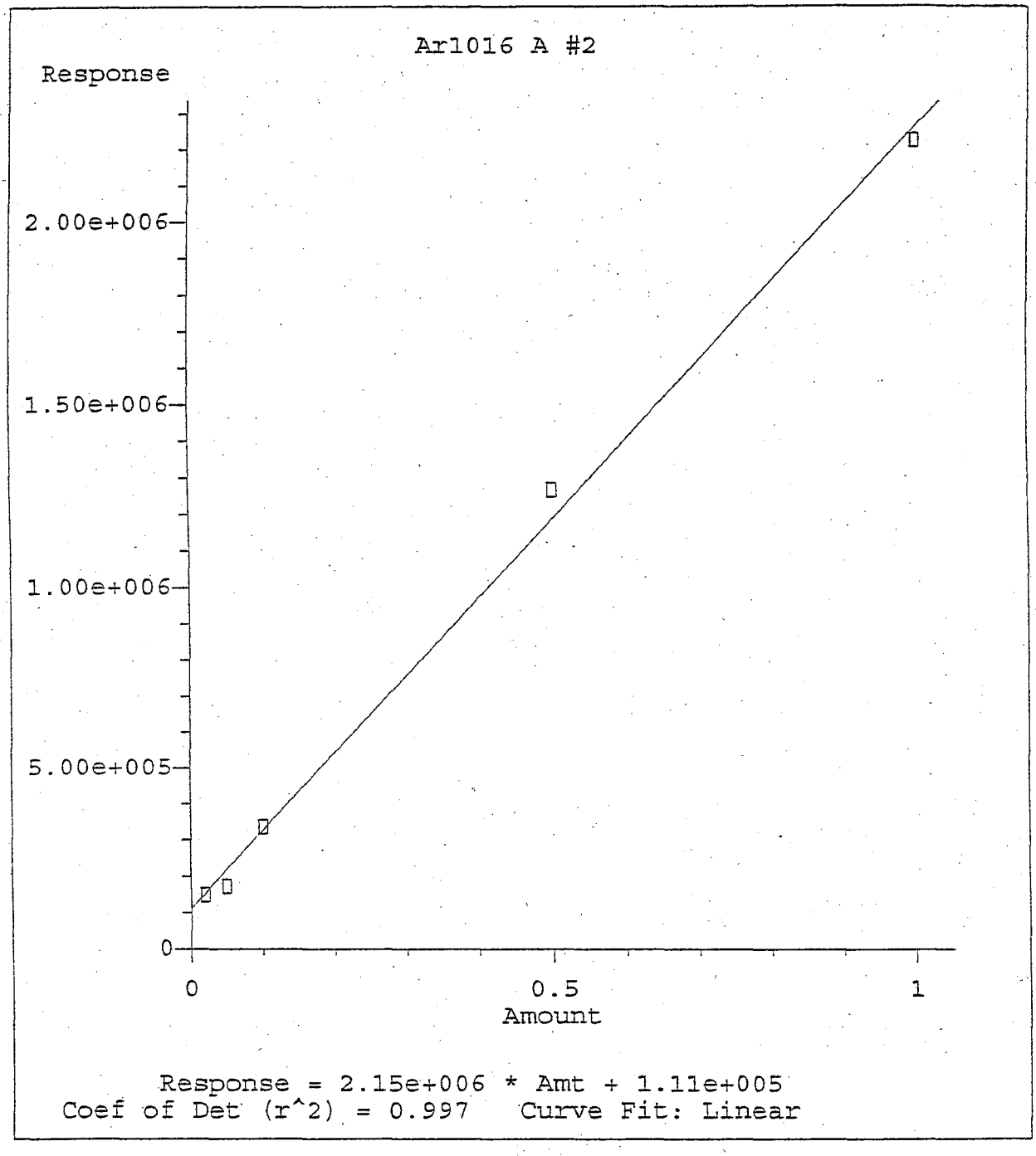

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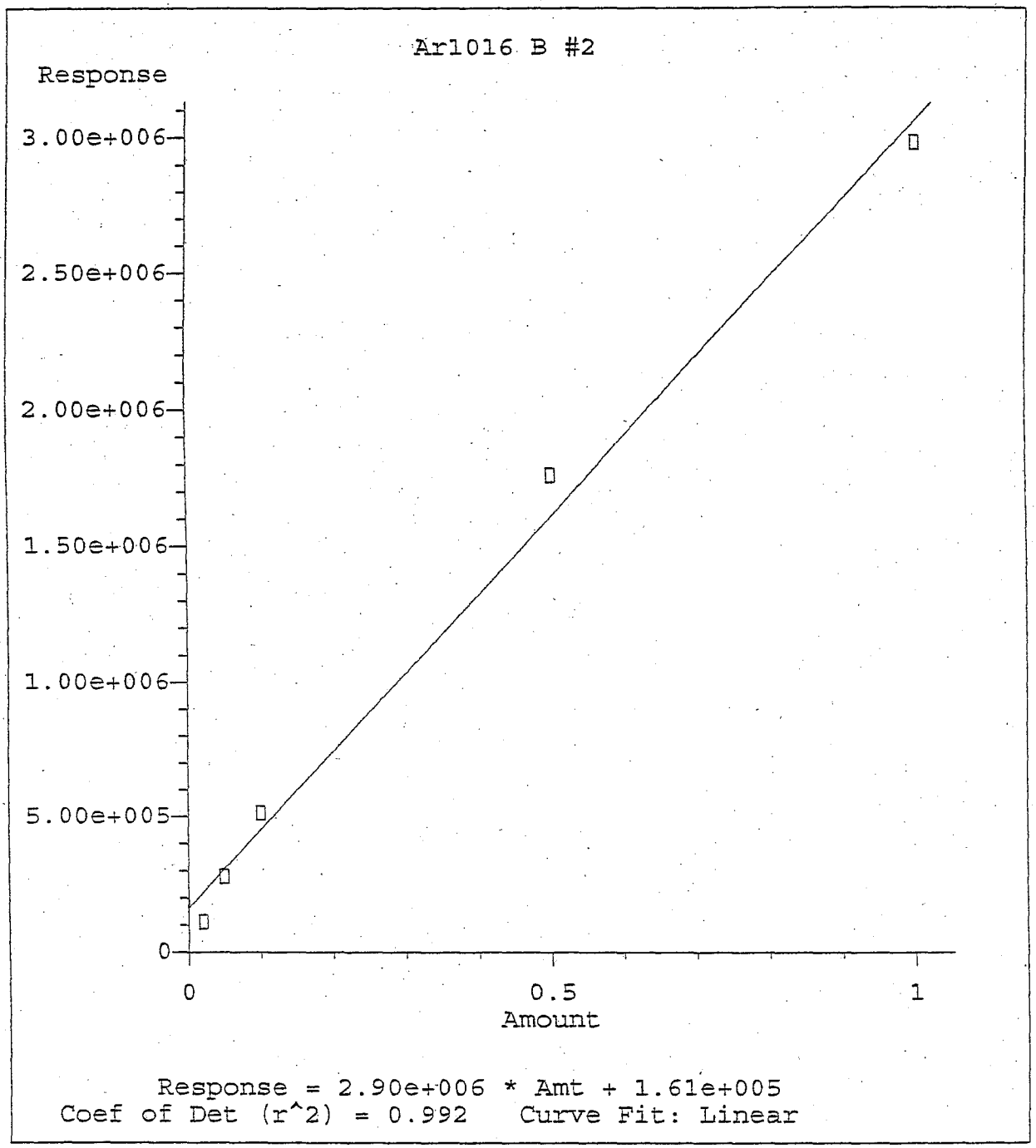

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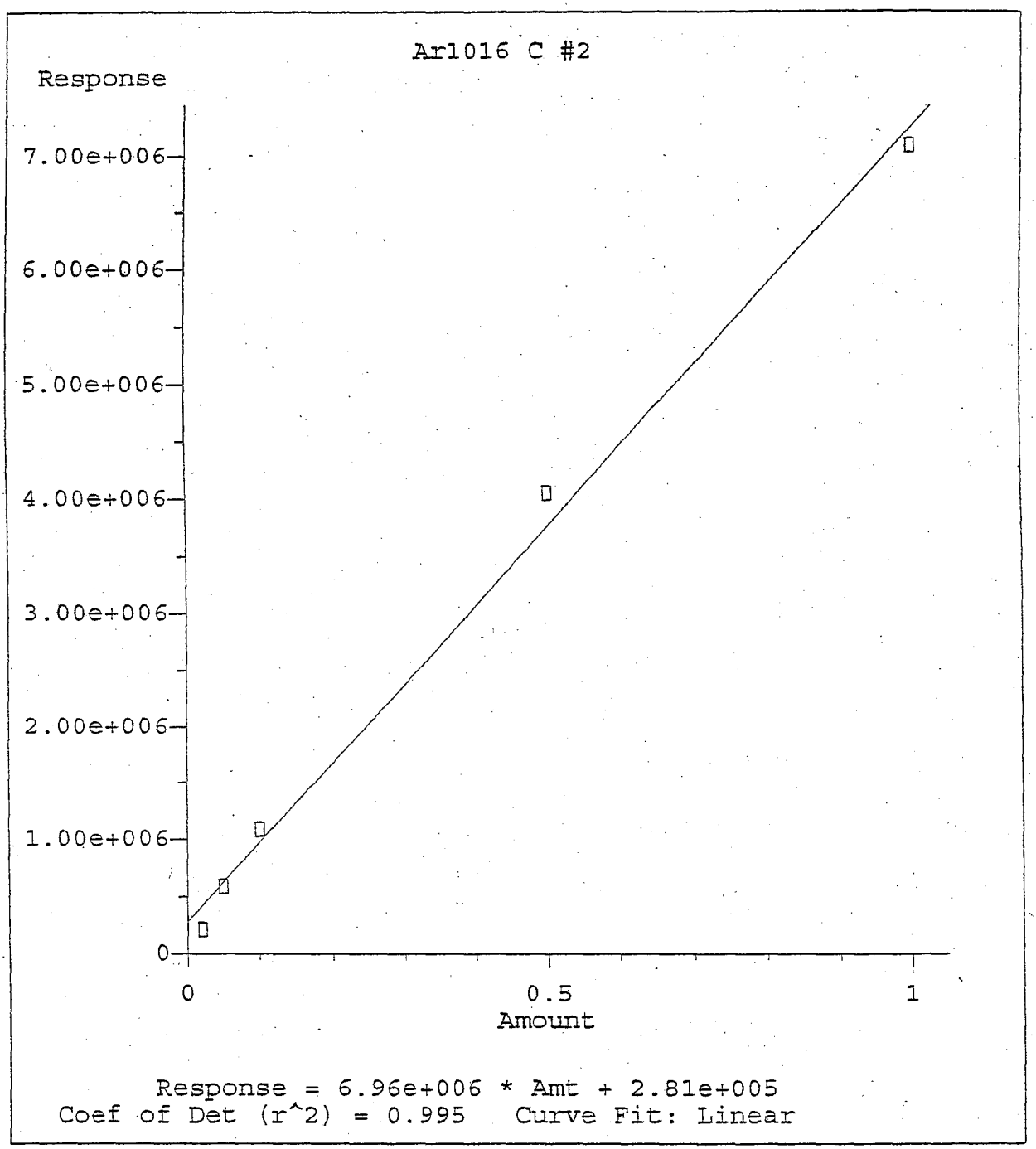

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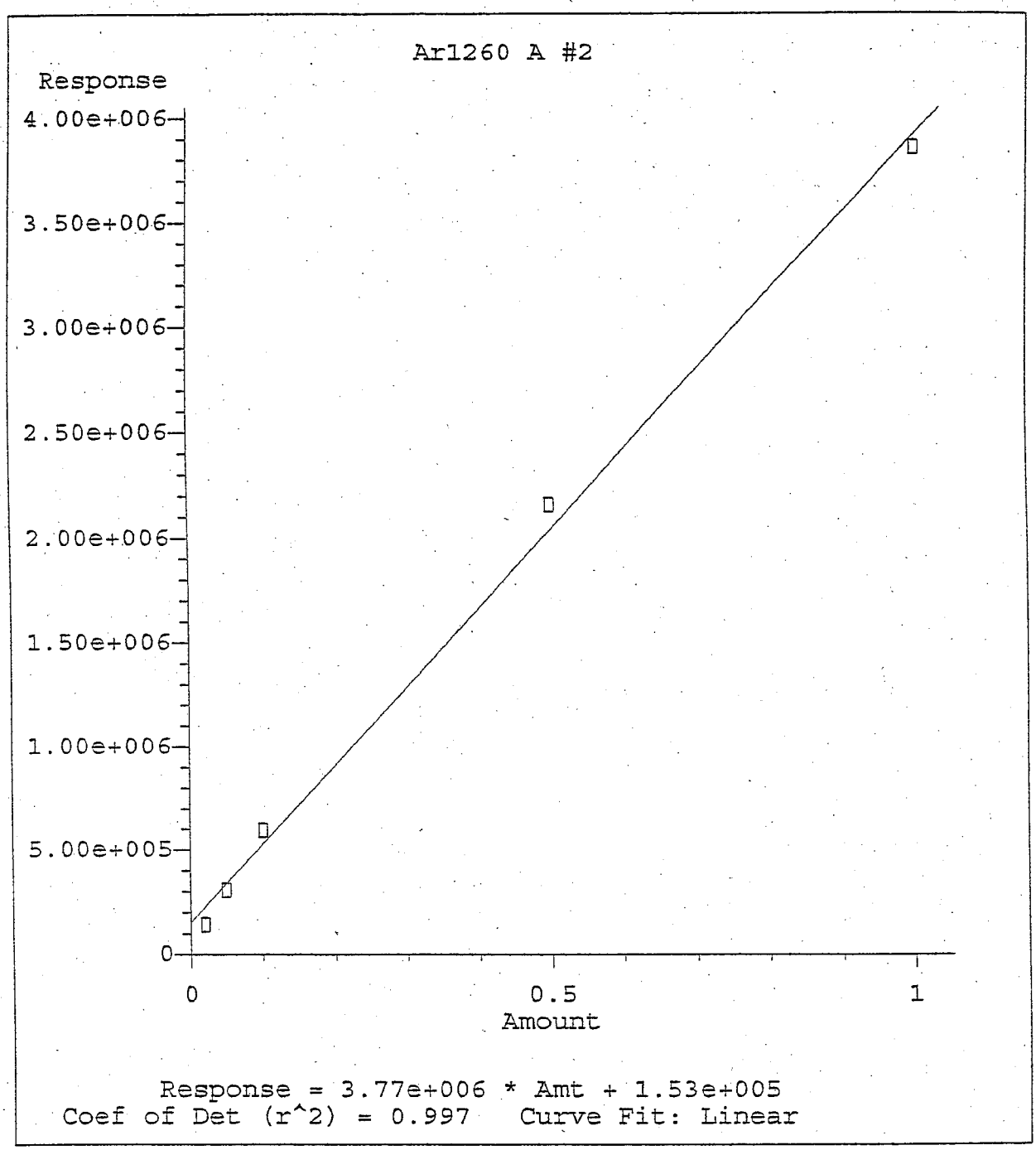

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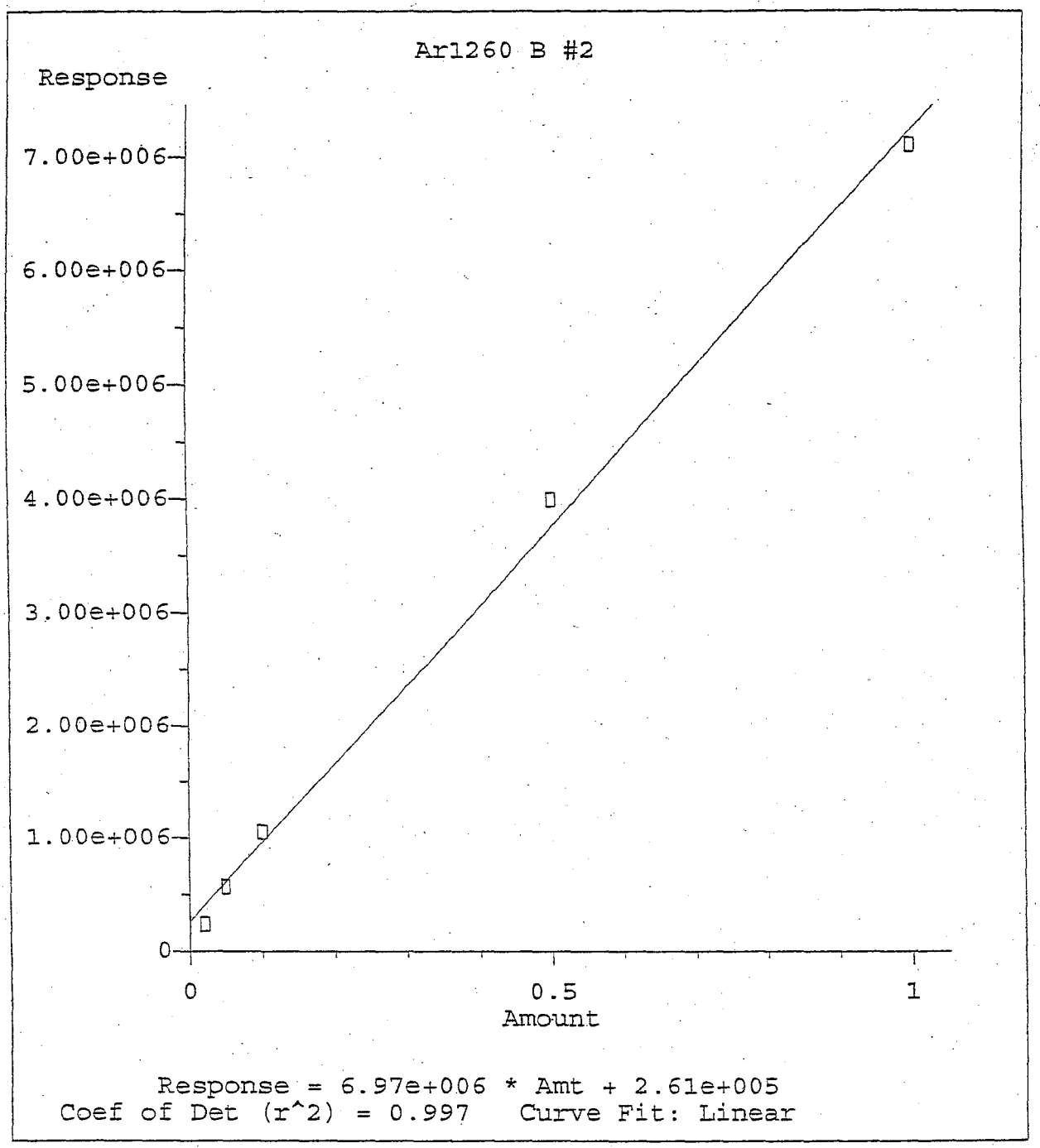
Calibration Table Last Updated: Mon Aug 19 08:41:34 2002



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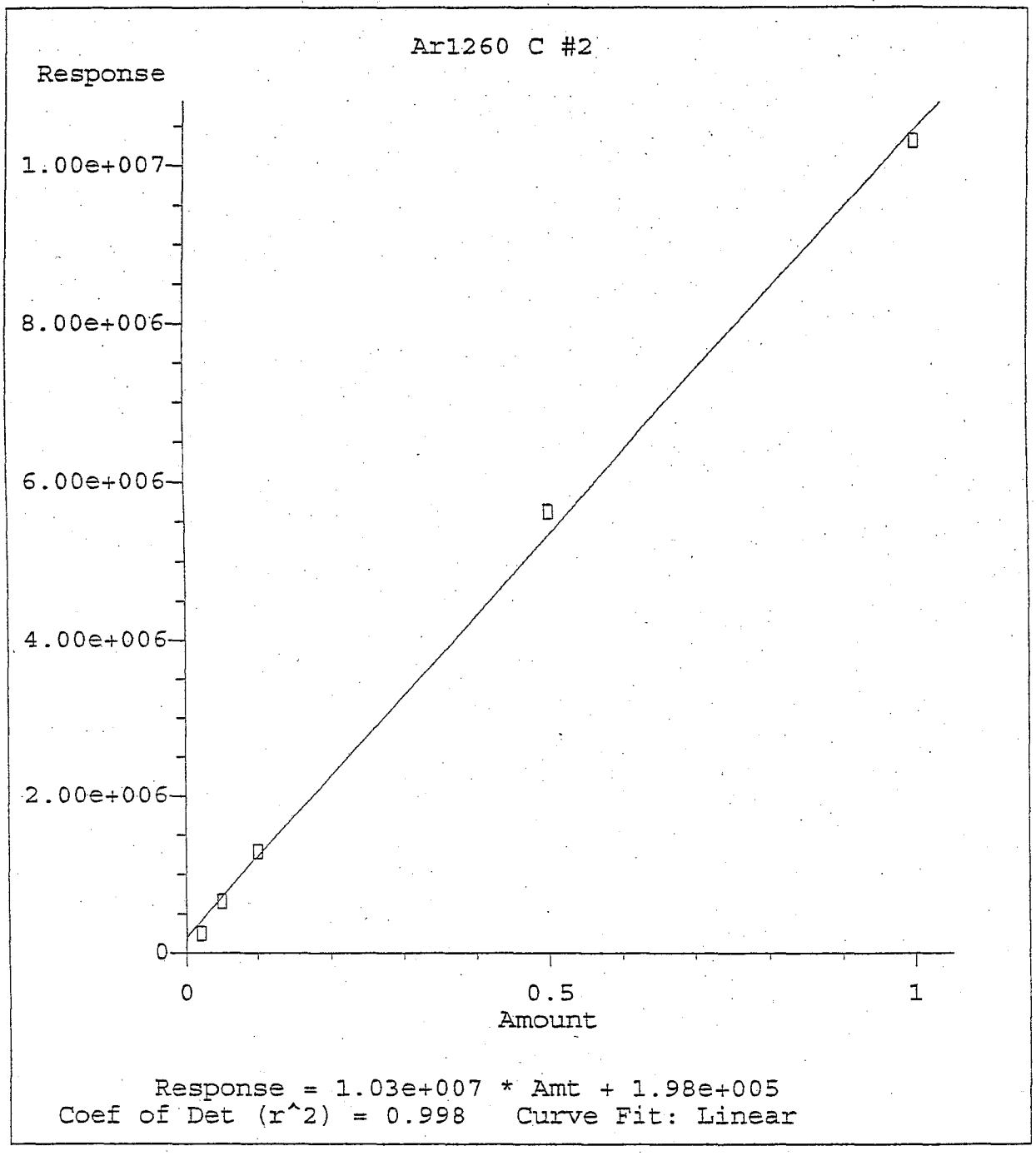

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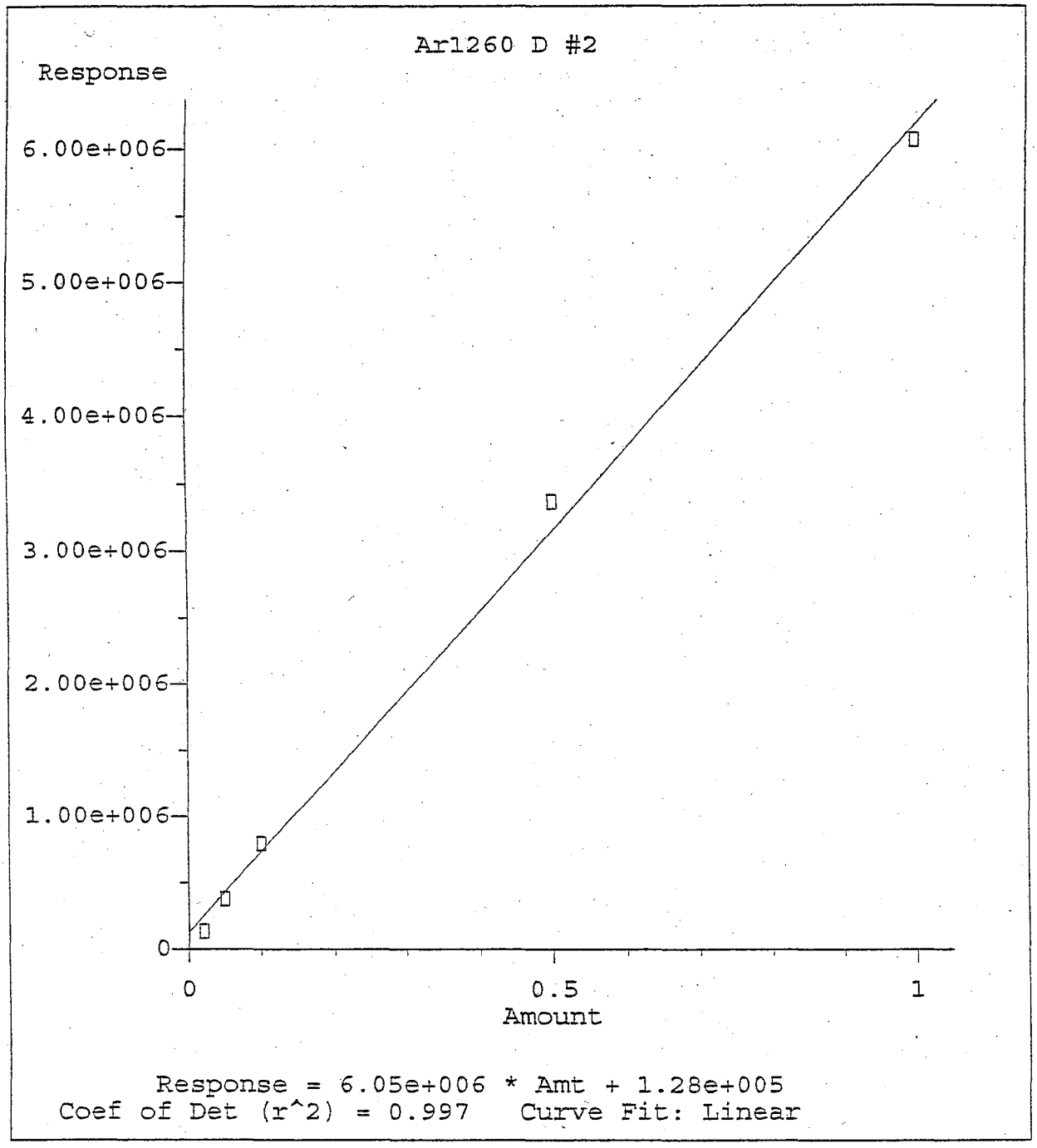

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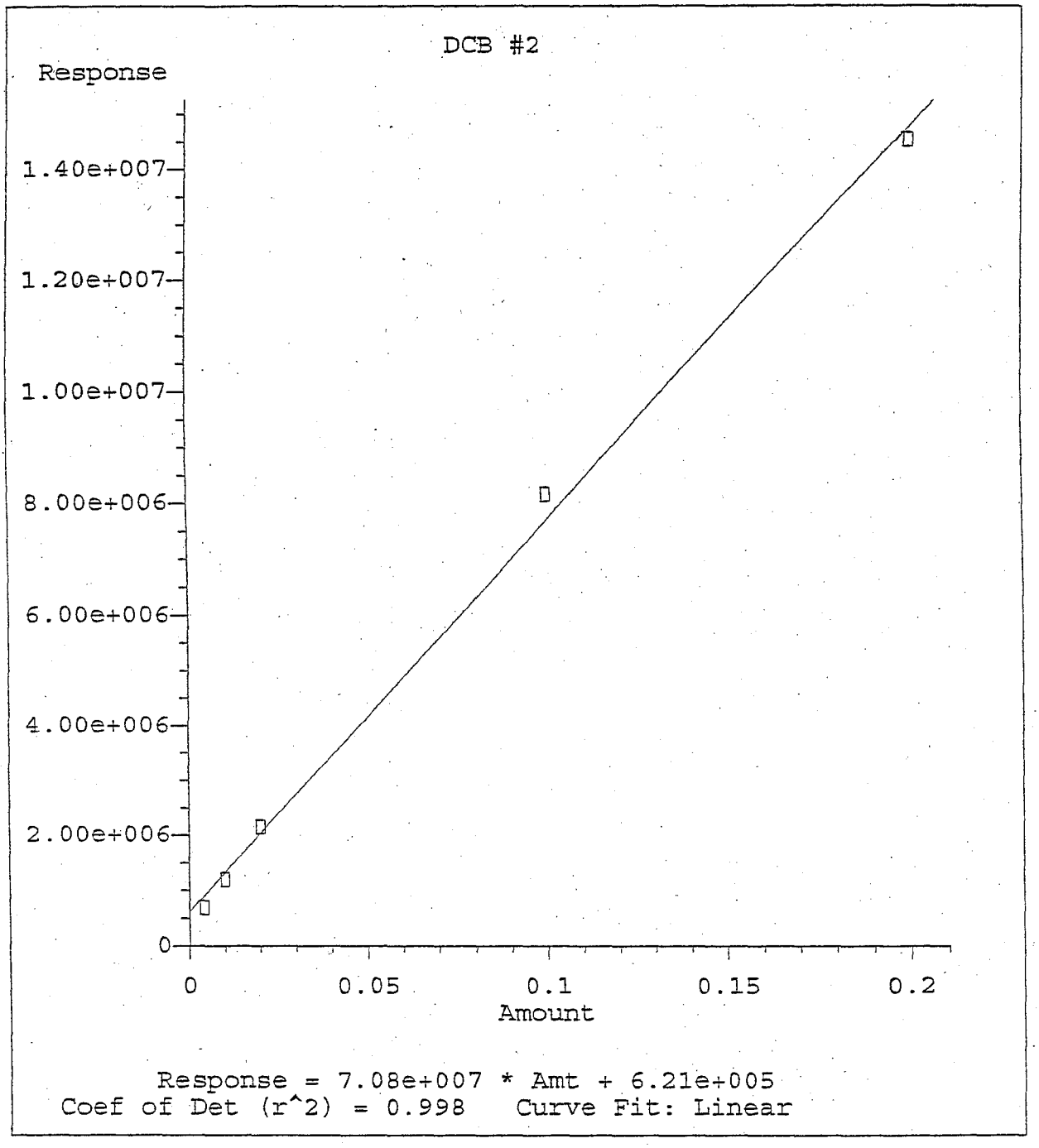

Method Name: D:\HPCHEM\2\METHODS\PBQ8092.M
Calibration Table Last Updated: Mon Aug 19 08:41:34 2002

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7A
PCB CONTINUING CALIBRATION CHECK

Site ID: Topsham, ME

Project No.: CTO 03 GC Column #1: RTX-CLP Pesticides I Data Package ID: 48150

Instrument ID: F GC Column #2 : RTX-CLP Pesticides II ID: 0.53 mm

File #: F26710 Cal. Check Date: 8/28/02 3:11

COMPOUND	True Value (ug/mL)	Measured Value (ug/mL)	% Recovery	Limits %R	Total Out
PCB 1016	0.50	0.533	107	85-115	0
PCB1260	0.50	0.527	105	85-115	0
PCB 1016#2	0.50	0.555	111	85-115	0
PCB 1260 #2	0.50	0.482	96	85-115	0

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7A
PCB CONTINUING CALIBRATION CHECK

Site ID: Topsham, ME

Project No.: CTO 03 GC Column #1: RTX-CLP Pesticides I Data Package ID: 48150

Instrument ID: F GC Column #2 : RTX-CLP Pesticides II ID: 0.53 mm

File #: F26731 Cal. Check Date: 8/28/02 7:12

COMPOUND	True Value (ug/mL)	Measured Value (ug/mL)	% Recovery	Limits %R	Total Out
PCB 1016	0.50	0.535	107	85-115	0
PCB1260	0.50	0.514	103	85-115	0
PCB 1016#2	0.50	0.550	110	85-115	0
PCB 1260 #2	0.50	0.473	95	85-115	0

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7A
PCB CONTINUING CALIBRATION CHECK

Site ID: Topsham, ME

Project No.: CTO 03 GC Column #1: RTX-CLP Pesticides I Data Package ID: 48150

Instrument ID: F GC Column #2 : RTX-CLP Pesticides II ID: 0.53 mm

File #: F26735 Cal. Check Date: 8/28/02 11:23

COMPOUND	True Value (ug/mL)	Measured Value (ug/mL)	% Recovery	Limits %R	Total Out
PCB 1016	0.50	0.538	108	85-115	0
PCB1260	0.50	0.531	106	85-115	0
PCB 1016#2	0.50	0.570	114	85-115	0
PCB 1260 #2	0.50	0.517	103	85-115	0

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PCB SOIL
SYSTEM MONITORING COMPOUND RETENTION TIME SUMMARY

Quote#: SDG: 48150

Project No: CTO 03 Site ID: PCB C/U Bldg 335 Location: Topsham, ME

GC Columns: RTX-CLPesticidesI ID: 0.53(mm)
RTX-CLPesticidesII

Instrument ID: E

Date Analyzed: 8/9/02
Lab File ID (Standard) : F26117 Time Analyzed: 16:24

	COLUMN #1		COLUMN #1	
	SMC1	SMC 2	SMC1	SMC 2
PESTICIDE STANDARD	1.90	7.48	1.56	6.39
UPPER LIMIT	1.93	7.52	1.59	6.43
LOWER LIMIT	1.87	7.44	1.53	6.35

	SAMPLE ID	LAB FILE ID	DATE	TIME	COLUMN #1 SMC1	#	COLUMN #1 SMC 2	#	COLUMN #2 SMC1	#	COLUMN #2 SMC 2	#
01	ZZZZZ	F26113.D	08/09/02	15:37	1.90		7.48		1.56		6.39	
02	P2692 16/60 0.02	F26114.D	08/09/02	15:49	1.90		7.47		1.56		6.39	
03	P2693 16/60 0.05	F26115.D	08/09/02	16:01	1.90		7.47		1.56		6.39	
04	P2694 16/60 0.1	F26116.D	08/09/02	16:13	1.90		7.47		1.56		6.39	
05	P2695 16/60 0.5	F26117.D	08/09/02	16:24	1.90		7.47		1.56		6.38	
06	P2696 16/60 1.0	F26118.D	08/09/02	16:36	1.90		7.47		1.56		6.38	
07	ZZZZZ	F26119.D	08/09/02	16:47	1.89		7.47		1.54		6.38	
08	P2677 1221 1.0	F26120.D	08/09/02	16:59	NA		NA		NA		NA	
09	P2678 1232 1.0	F26121.D	08/09/02	17:10	NA		NA		NA		NA	
10	P2679 1242 1.0	F26122.D	08/09/02	17:22	NA		NA		NA		NA	
11	P2682 1248 1.0	F26123.D	08/09/02	17:33	NA		NA		NA		NA	
12	P2680 1254 1.0	F26124.D	08/09/02	17:45	NA		NA		NA		NA	
13	ZZZZZ	F26125.D	08/09/02	17:56	1.89		7.46		1.55		6.38	
14	ZZZZZ	F26126.D	08/09/02	18:10	1.79	*	7.38	*	0.00	*	6.45	*
15	ZZZZZ	F26126A.D	08/09/02	19:41	1.92		7.49		1.57		6.40	
16	ZZZZZ	F26127.D	08/09/02	19:52	1.91		7.48		1.57		6.39	
17	ZZZZZ	F26128.D	08/09/02	20:04	1.90		7.48		1.57		6.39	
18	ZZZZZ	F26129.D	08/09/02	20:16	1.90		7.47		1.56		6.39	
19	ZZZZZ	F26130.D	08/09/02	20:27	1.90		7.47		1.56		6.39	
20	ZZZZZ	F26131.D	08/09/02	20:39	1.90		7.47		1.56		6.39	
21	ZZZZZ	F26132.D	08/09/02	20:50	1.90		7.47		1.56		6.38	
22	ZZZZZ	F26133.D	08/09/02	21:01	1.90		7.47		1.56		6.38	
23	ZZZZZ	F26134.D	08/09/02	21:13	1.90		7.47		1.56		6.38	
24	ZZZZZ	F26135.D	08/09/02	21:24	1.90		7.47		1.56		6.38	
25	ZZZZZ	F26136.D	08/09/02	21:36	1.90		7.47		1.56		6.38	
26	ZZZZZ	F26137.D	08/09/02	21:47	1.90		7.47		1.56		6.38	
27	ZZZZZ	F26138.D	08/09/02	21:59	1.90		7.47		1.56		6.38	
28	ZZZZZ	F26139.D	08/09/02	22:11	1.90		7.47		1.56		6.38	
29	ZZZZZ	F26140.D	08/09/02	22:22	1.90		7.47		1.56		6.38	
30	ZZZZZ	F26141.D	08/09/02	22:34	1.90		7.47		1.56		6.38	
31	P2695 16/60 0.5	F26142.D	08/09/02	22:46	1.90		7.47		1.56		6.38	
32												
33												
34												
35												

analytics environmental laboratory LLC

PCB SOIL
SYSTEM MONITORING COMPOUND RETENTION TIME SUMMARY

Quote#: SDG: 48150

Project No: CTO 03 Site ID: PCB C/U Bldg 335 Location: Topsham, ME

GC Columns: RTX-CLPesticidesI ID: 0.53(mm)
Instrument ID: E RTX-CLPesticidesII

Date Analyzed: 8/28/02
Lab File ID (Standard) : F26710 Time Analyzed: 3:11

	COLUMN #1		COLUMN #1	
	SMC1	SMC 2	SMC1	SMC 2
PESTICIDE STANDARD	1.91	7.47	1.56	6.38
UPPER LIMIT	1.94	7.51	1.59	6.42
LOWER LIMIT	1.88	7.43	1.53	6.34

	SAMPLE ID	LAB FILE ID	DATE	TIME	COLUMN #1 SMC1 #	COLUMN #1 SMC 2 #	COLUMN #2 SMC1 #	COLUMN #2 SMC 2 #
01	P2695 16/60 0.5	F26710.D	08/28/02	3:11	1.91	7.47	1.56	6.38
02	B08272PAS	F26711B.D	08/28/02	3:23	1.91	7.48	1.56	6.38
03	L08272PAB	F26712Q.D	08/28/02	3:34	1.91	7.47	1.57	6.38
04	LD08272PAB	F26713Q.D	08/28/02	3:46	1.91	7.47	1.56	6.38
05	48150-1	F26714.D	08/28/02	3:57	1.91	7.48	1.57	6.38
06	48150-2	F26715.D	08/28/02	4:09	1.91	7.47	1.56	6.38
07	48150-3	F26716.D	08/28/02	4:20	1.91	7.47	1.56	6.38
08	48150-4	F26717.D	08/28/02	4:32	1.91	7.48	1.56	6.38
09	48150-5	F26718.D	08/28/02	4:43	1.91	7.47	1.57	6.38
10	48150-6	F26719.D	08/28/02	4:54	1.91	7.47	1.56	6.38
11	ZZZZZ	F26720.D	08/28/02	5:06	1.91	7.47	1.57	6.38
12	ZZZZZ	F26721.D	08/28/02	5:17	1.91	7.47	1.56	6.38
13	48150-9	F26722.D	08/28/02	5:29	1.91	7.47	1.57	6.38
14	ZZZZZ	F26723.D	08/28/02	5:41	1.91	7.47	1.57	6.38
15	48150-11	F26724.D	08/28/02	5:52	1.91	7.48	1.57	6.38
16	48150-12	F26725.D	08/28/02	6:03	1.91	7.47	1.57	6.38
17	48150-13	F26726.D	08/28/02	6:15	1.91	7.47	1.57	6.38
18	48150-13 MS	F26727SP.D	08/28/02	6:26	1.91	7.47	1.57	6.38
19	48150-13 MSD	F26728SP.D	08/28/02	6:38	1.91	7.47	1.57	6.38
20	ZZZZZ	F26729.D	08/28/02	6:49	1.91	7.47	1.56	6.38
21	ZZZZZ	F26730.D	08/28/02	7:01	1.91	7.47	1.56	6.38
22	P2695 16/60 0.5	F26731.D	08/28/02	7:12	1.91	7.47	1.56	6.38
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analytics environmental laboratory LLC

PCB SOIL
SYSTEM MONITORING COMPOUND RETENTION TIME SUMMARY

Quote#: SDG: 48150

Project No: CTO 03 Site ID: PCB C/U Bldg 335 Location: Topsham, ME

GC Columns: RTX-CLPesticidesI ID: 0.53(mm)
Instrument ID: E RTX-CLPesticidesII

Date Analyzed: 8/28/02
Lab File ID (Standard) : F26731 Time Analyzed: 7:12

	COLUMN #1		COLUMN #1	
	SMC1	SMC 2	SMC1	SMC 2
PESTICIDE STANDARD	1.91	7.47	1.56	6.38
UPPER LIMIT	1.94	7.51	1.59	6.42
LOWER LIMIT	1.88	7.43	1.53	6.34

	SAMPLE ID	LAB FILE ID	DATE	TIME	COLUMN #1 SMC1 #	COLUMN #1 SMC 2 #	COLUMN #2 SMC1 #	COLUMN #2 SMC 2 #
01	P2695 16/60 0.5	F26731.D	08/28/02	7:12	1.91	7.47	1.56	6.38
02	48150-7 1:10	F26732.D	08/28/02	10:48	1.92	7.49	1.57	6.39
03	48150-8 1:10	F26733.D	08/28/02	11:00	1.92	7.49	1.57	6.39
04	48150-10 1:200	F26734.D	08/28/02	11:11	1.92	7.49	1.57	6.39
05	P2695 16/60 0.5	F26735.D	08/28/02	11:23	1.91	7.48	1.57	6.38
06								
07								
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analytics environmental laboratory LLC

195 Commerce Way Suite E
Portsmouth, NH 03801
Phone (603) 436-5111
Fax (603) 430-2151

For Analytics Use Only Rev 6/02

Samples were:
1) Shipped or hand-delivered
2) Temp blank °C 4°C
3) Received in good condition Y or N
4) pH checked by: N/A
5) Labels checked by: JB 8/27/02

Project#: CTO-03 Proj. Name: PCB C/U Bldg 335
Company: Foster Wheeler Env. Co
Contact: Dan Sullivan
Address: Kittery, Maine
Phone: 207-451-9751 PO# Quote #
Sampler (Signature): Rick Goodwin

Matrix Key:
WW=Wastewater
SW=Surfacewater
GW=Groundwater
DW=Drinkingwater
S=Soil/Sludge
O=Oil
E=Extract
X=Other

Container Key
P=plastic G=glass

Station Identification	Sample Date	Sample Time	Analysis	Unpres	4oC	HNO_3	H_2SO_4	HCL	Methanol	Other	Matrix	Container number/type		pH	Analytics Sample #
CS-5-3-BS	8-27-02	1300	PCB								SOIL	1	GLASS		48150-1
CS-5-4-BS		1310										1	G		2
CS-5-5-BS		1320										1			3
CS-3-3-BS		1330										1			4
CS-5-6-SSW-3		1335										1			5
CS-2-3-BS		1345										1			6
CS-2-4-BS		1355										1			7
CS-2-5-NSW-1		1405										1			8
CS-2-5-NSW-2		1415										1			9
CS-3-4-NSW-1		1425										1			10
CS-3-4-NSW-2		1485										1			11
CS-3-5-ESW-1		1445										1			12

FAX RESULTS? YES NO
Fax #
Turnaround Request
Standard ☐ Due Date
Priority ☒ Due Date 24 HR

Comments / Instructions:

Page ___ of ___

Relinquished By:	Received By:	Relinquished By:	Received By:	Relinquished By:	Received By:
Rick Goodwin	[signature]	[signature]	Allen A. de Campo		
Date: 8-27-02	Time: 1600	Date: 8-27-02	Time: 5:50 pm	Date:	Time:

analytics environmental laboratory LLC

195 Commerce Way Suite E
Portsmouth, NH 03801
Phone (603) 436-5111
Fax (603) 430-2151

For Analytics Use Only Rev 6/02

Samples were:
1) Shipped or hand-delivered
2) Temp blank °C 4°C
3) Received in good condition Y or N
4) pH checked by: N/A
5) Labels checked by: JB 8/27/02

Project#: CTO-03 Proj. Name: PCB C/U Bldg 335
Company: Foster Wheeler Env. Co
Contact: Dan Sullivan
Address: Kittery, Maine

Phone: 207-451-9751 PO# Quote #
Sampler (Signature): Rich Goddard

Matrix Key:
WW=Wastewater
SW=Surfacewater
GW=Groundwater
DW=Drinkingwater
S=Soil/Sludge
O=Oil
F=Extract
X=Other

Container Key
P=plastic G=glass

Station Identification	Sample Date	Sample Time	Analysis	Preservation: Unpres	4°C	HNO_3	H_2SO_4	HCL	Methanol	Other	Matrix	Container number/type		pH	Analytics Sample #
CS-3-5-ESW-2	8-27-02	1455	PCB								Soil	1	G		48150-13
~~SS~~															

Comments / Instructions:

FAX RESULTS? YES NO
Fax #

Turnaround Request
Standard ☐ Due Date
Priority ☒ Due Date 24 Hr

Page___ of___

Received By:	Received By:	Received By:
Time: 1600	Time: 5:50pm	Time:
Date: 8-27-02	Date: 8-27-02	Date:
Relinquished By Sampler: Rich Goddard	Relinquished By:	Relinquished By:

Alyssa G. Fr. Compte

08/8/0

analytics\AEL Documents\AEL COC

ANALYTICS SAMPLE RECEIPT CHECKLIST

AEL LAB#: 48150 COOLER NUMBER: 1

CLIENT: Foster Wheeler NUMBER OF COOLERS: 1

PROJECT: PCB C/21 Blot 335 DATE RECEIVED: 08/27/02

A: PRELIMINARY EXAMINATION: DATE COOLER OPENED: 08/27/02

1. Cooler received by(initials) aL Date Received: 08/27/02
2. Did cooler come with a shipping slip? Y (N)

If YES, enter carrier name and airbill number here: _____

3. Were custody seals on the outside of cooler? Y (N)
How many & where: _____ Seal Date: _____ Seal Name: _____

4. Did the custody seals arrive unbroken and intact upon arrival? Y N

5. COC#: _____

6. Were Custody papers filled out properly (ink,signed, etc)? (Y) N

7. Were custody papers sealed in a plastic bag? Y (N)

8. Did you sign the COC in the appropriate place? (Y) N

9. Was the project identifiable from the COC papers? (Y) N

10. Was enough ice used to chill the cooler? (Y) N Temp. of cooler: 4°C

B. Log-In: Date samples were logged in: 08/27/02 By: aL

11. Type of packing in cooler(bubble wrap, popcorn) (Y) N

12. Were all bottles sealed in separate plastic bags? Y (N)

13. Did all bottles arrive unbroken and were labels in good condition? (Y) N

14. Were all bottle labels complete(ID,Date,time,etc.) (Y) N

15. Did all bottle labels agree with custody papers? (Y) N

16. Were the correct containers used for the tests indicated: (Y) N

17. Were samples received at the correct pH? Y N

18. Was sufficient amount of sample sent for the tests indicated? (Y) N

19. Were bubbles absent in VOA samples? Y N

If NO, List sample #'s: _____

20. Laboratory labeling verified by (initials): JB Date: 8/27/02

C:ANLYTICS LLC\AEL DOCUMENTS\FORMS\SMPL CHKLST

Round 3

analytics environmental laboratory LLC

195 Commerce Way Suite E
Portsmouth, New Hampshire 03801
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800-929-9906
analytics@analyticslab.com

September 11, 2002

Mr Dan Sullivan
Foster Wheeler Environmental Corporation
P.O. Box 660
Kittery, ME 03904

RE: Analytical Results Case Narrative
Analytics # 48177
Navy – FWEC Project # CTO-33
PCB SOIL C/U; BLDG 335

Dear Mr. Sullivan;

Enclosed please find the analytical results for samples submitted for the above-mentioned project. The attached Cover Page lists the sample IDs, Lab tracking numbers and collection dates for the samples included in this deliverable.

The samples were analyzed for PCBs according to EPA Method 8082. Unless otherwise noted in the Non-conformance Summary listed below, all of the quality control (QC) criteria including initial calibration, calibration verification, surrogate recovery, holding time and method accuracy/precision for these analyses were within acceptable limits.

This Level 3 data package has been assembled in the following order:

Case Narrative/Non-Conformance Summary
- Sample Log Sheet - Cover Page
- PCB Form 1 Data Sheet for Samples and Blanks
  - Chromatograms
- PCB Form 10 Confirmation Results Form (if required)
- PCB Form 2 Surrogate Recoveries
- PCB Form 3 MS/MSD (LCS) Recoveries
- PCB Form 4 Method Blank Summary (equiv.) GC/MS Logbook Sheets
- PCB Form 5 DDT Breakdown Summaries
- PCB Form 6 Initial Calibration Data
- PCB Form 7 Continuing Calibration Check
- PCB Form 8 System Monitoring Compound RT Summary
- Chain of Custody (COC) Forms and Sample Receipt Checklist

QC NON CONFORMANCE SUMMARY

Sample Receipt:
No QC deviations.

PCBs by EPA Method 8082:
No QC deviations.

Sincerely,
ANALYTICS Environmental Laboratory, LLC

Stephen L. Knollmeyer
Laboratory Director

analytics environmental laboratory LLC

195 Commerce Way Suite E
Portsmouth, New Hampshire 03801
603-436-5111 Fax 603-430-2151
800-929-9906
analytics@analyticslab.com

Mr. Dan Sullivan
Foster Wheeler Environmental Corp.
P.O. Box 660
Kittery ME 03904

Report Number: 48177

Revision: Rev. 0

Re: PCB SOIL C/U; BLDG 335 **CTO 33**

Enclosed are the results of the analyses on your sample(s). Samples were received on 30 August 2002 and analyzed for the tests listed below. Samples were received in acceptable condition, with the exceptions noted below or on the chain of custody. The results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report. Please see individual reports for specific methodologies and references.

Lab Number	Sample Date	Station Location	Analysis	Comments
48177-1	08/29/02	CS-4-7-WBS	EPA 8082 (PCBs only)	
48177-2	08/29/02	CS-4-7-WSW-1	EPA 8082 (PCBs only)	
48177-3	08/29/02	CS-4-7-NSW-1	EPA 8082 (PCBs only)	
48177-4	08/29/02	CS-4-7-SSW-1	EPA 8082 (PCBs only)	
48177-5	08/29/02	CS-7-7-SBS	EPA 8082 (PCBs only)	
48177-6	08/29/02	CS-7-7-WSW-1	EPA 8082 (PCBs only)	
48177-7	08/29/02	CS-7-7-SSW-1	EPA 8082 (PCBs only)	
48177-8	08/29/02	CS-7-7-ESW-1	EPA 8082 (PCBs only)	
48177-9	08/29/02	CS-9-7-BS	EPA 8082 (PCBs only)	
48177-10	08/30/02	CS-9-7-ESW-1	EPA 8082 (PCBs only)	
48177-11	08/30/02	CS-6-7-BS	EPA 8082 (PCBs only)	
48177-12	08/30/02	CS-2-7-BS-1	EPA 8082 (PCBs only)	
48177-13	08/30/02	CS-2-7-BS-2	EPA 8082 (PCBs only)	
48177-14	08/30/02	CS-3-7-BS-1	EPA 8082 (PCBs only)	
48177-15	08/30/02	CS-2-7-WSW-2	EPA 8082 (PCBs only)	
48177-16	08/30/02	CS-2-7-WSW-1	EPA 8082 (PCBs only)	

Sample Receipt Exceptions: None

Analytics Environmental Laboratory is certified by the states of New Hampshire, Maine, Massachusetts, Connecticut, Rhode Island, North Carolina and is validated by the U.S. Army Corps of Engineers (MRD) and U.S. Navy (NFESC). A list of actual certified parameters is available upon request.

If you have any further question on the analytical methods or these results, do not hesitate to call.

Authorized signature _____
Stephen L. Knollmeyer Lab. Director

Date 9/3/2002

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analytics environmental laboratory LLC

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analytics@analyticslab.com

Mr. Dan Sullivan
Foster Wheeler Environmental Corp.
P.O. Box 660
Kittery ME 03904

Report Number: 48177

Revision: Rev. 0

Re: PCB SOIL C/U; BLDG 335 **CTO 33**

Enclosed are the results of the analyses on your sample(s). Samples were received on 30 August 2002 and analyzed for the tests listed below. Samples were received in acceptable condition, with the exceptions noted below or on the chain of custody. The results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report. Please see individual reports for specific methodologies and references.

Lab Number	Sample Date	Station Location	Analysis	Comments
48177-17	08/30/02	CS-6-7-ESW-1	EPA 8082 (PCBs only)	
48177-18	08/30/02	CS-6-7-ESW-2	EPA 8082 (PCBs only)	
48177-19	08/30/02	CS-9-7-ESW-2	EPA 8082 (PCBs only)	

Sample Receipt Exceptions: None

Analytics Environmental Laboratory is certified by the states of New Hampshire, Maine, Massachusetts, Connecticut, Rhode Island, North Carolina and is validated by the U.S. Army Corps of Engineers (MRD) and U.S. Navy (NFESC). A list of actual certified parameters is available upon request.

If you have any further question on the analytical methods or these results, do not hesitate to call.

Authorized signature _____
Stephen L. Knollmeyer Lab. Director

Date 9/3/2002

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analytics environmental laboratory LLC

195 Commerce Way
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800-929-9906

Mr. Dan Sullivan
Foster Wheeler Environmental Corp.
P.O. Box 660
Kittery ME 03904

September 10, 2002

SAMPLE DATA

Lab Sample ID:	B08302PAS
Matrix:	Solid
Percent Solid:	100
Dilution Factor:	1
Collection Date:	
Lab Receipt Date:	
Extraction Date:	08/30/02
Analysis Date:	08/30/02

CLIENT SAMPLE ID

Project Name:	PCB SOIL C/U; BLDG 335
Project Number:	CTO 33
Field Sample ID:	LABQC

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/kg	Results µg/kg
PCB-1016	15	U
PCB-1221	15	U
PCB-1232	15	U
PCB-1242	15	U
PCB-1248	15	U
PCB-1254	15	U
PCB-1260	15	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	106	%
Decachlorobiphenyl	104	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3545.

COMMENTS: Results are expressed on a dry weight basis.

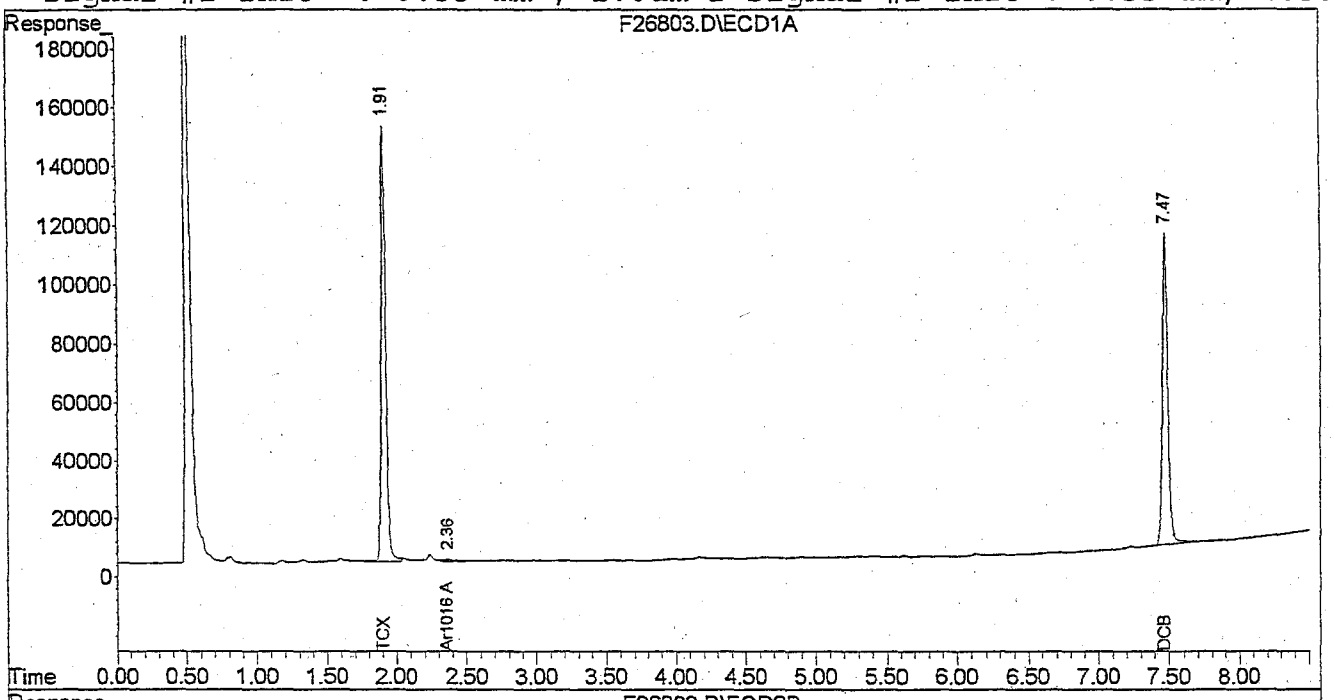
PCB Report

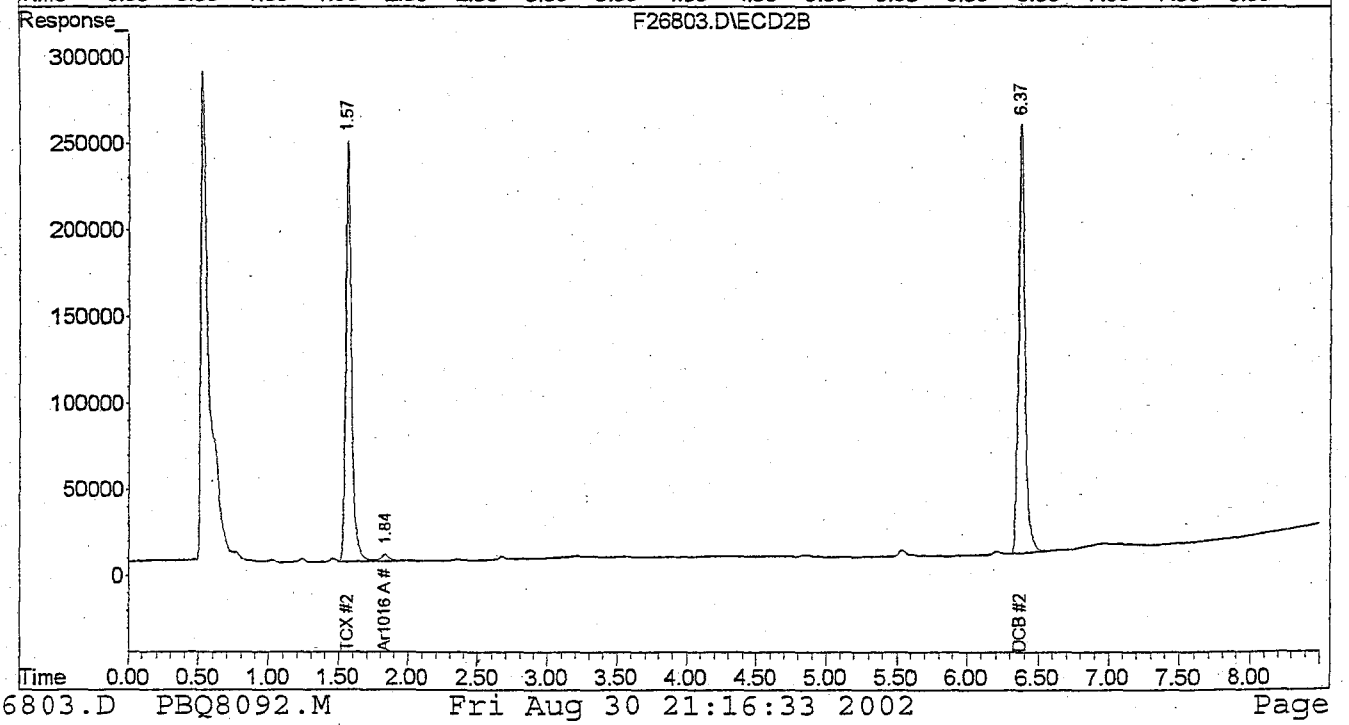
Authorized signature

Signal #1 : D:\HPCHEM\2\DATA\083002-F\F26803.D\ECD1A.CH Vial: 3
Signal #2 : D:\HPCHEM\2\DATA\083002-F\F26803.D\ECD2B.CH
Acq On : 30 Aug 2002 5:47 pm Operator:
Sample : B08302PAS Inst : Instrume
Misc : SOIL Multiplr: 1.00
IntFile Signal #1: PCBINT.E IntFile Signal #2: PCBINT2.E
Quant Time: Aug 30 19:30 2002 Quant Results File: PBQ8092.RES

Quant Method : D:\HPCHEM\2\METHODS\PBQ8092.M (Chemstation Integrator)
Title : Aroclor 1016/1260
Last Update : Fri Aug 30 16:51:30 2002
Response via : Multiple Level Calibration
DataAcq Meth : PCB.M

Volume Inj. : 3 ul
Signal #1 Phase : DB-1701 Widebore Signal #2 Phase: DB-5 Widebore
Signal #1 Info : 0.53 mm , 1.0um f Signal #2 Info : 0.53 mm, 1.5um Fil





analytics environmental laboratory LLC

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800-929-9906

Mr. Dan Sullivan
Foster Wheeler Environmental Corp.
P.O. Box 660
Kittery ME 03904

September 3, 2002

SAMPLE DATA

CLIENT SAMPLE ID

Project Name: PCB SOIL C/U; BLDG 335

Project Number: CTO 33

Field Sample ID: CS-4-7-WBS

Lab Sample ID: 48177-1
Matrix: Solid
Percent Solid: 92
Dilution Factor: 1.1
Collection Date: 08/29/02
Lab Receipt Date: 08/30/02
Extraction Date: 08/30/02
Analysis Date: 08/30/02

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/kg	Results µg/kg
PCB-1016	17	U
PCB-1221	17	U
PCB-1232	17	U
PCB-1242	17	U
PCB-1248	17	U
PCB-1254	17	**395**
PCB-1260	17	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	98	%
Decachlorobiphenyl	96	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3545.

COMMENTS: Results are expressed on a dry weight basis.

PCB Report

Authorized signature

analytics environmental laboratory LLC

PCB CONFIRMATION RESULTS

Quote#:

SDG: 48177

Project No: CTO 33

Site ID: PCB Soil C/U Bldg 335

Location: Topsham, ME

Instrument ID: F

GC Columns: RTX-CLPesticidesI
RTX-CLPesticidesII

ID: 0.53(mm)

Sample ID: 48177-1

COMPOUND	RESPONSE #1 (ug/kg)	RESPONSE #2 (ug/kg)	DIFFERENCE %	#	% DIFFERENCE Acceptance Limit
PCB 1254	408	395	3		40

Column to be used to flag % Difference with an asterisk

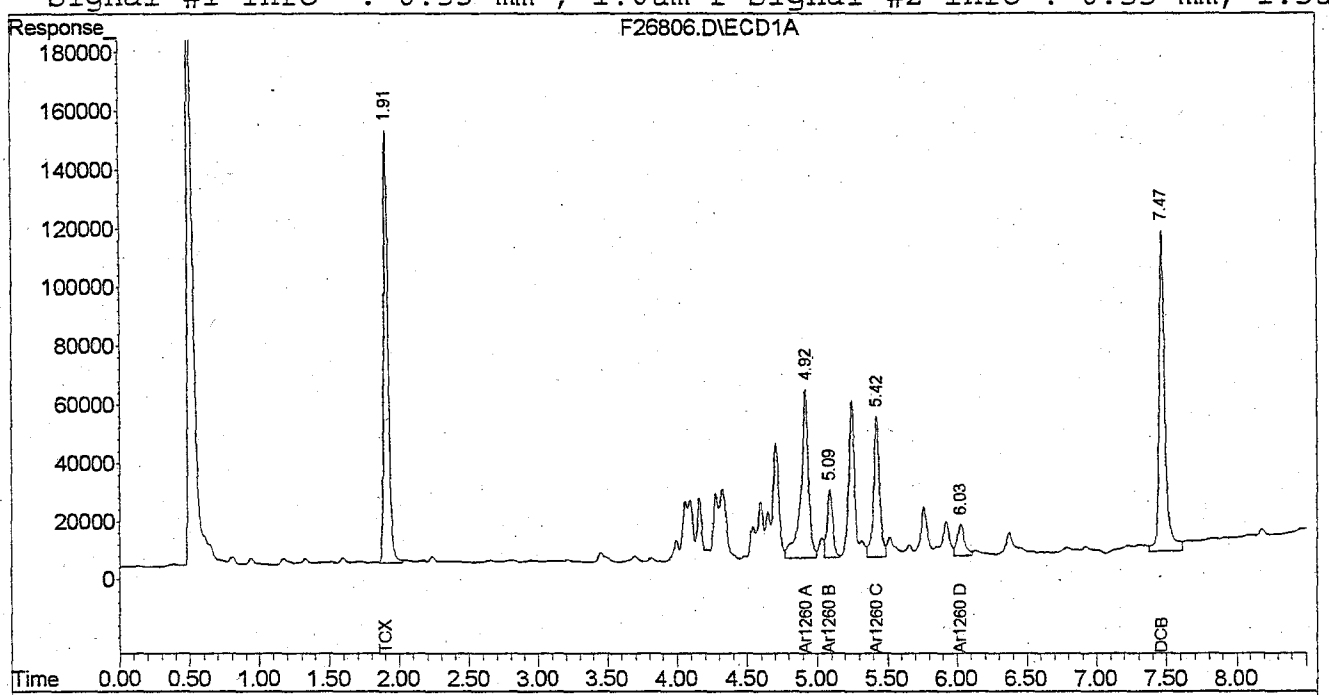
* Values outside of QC limits

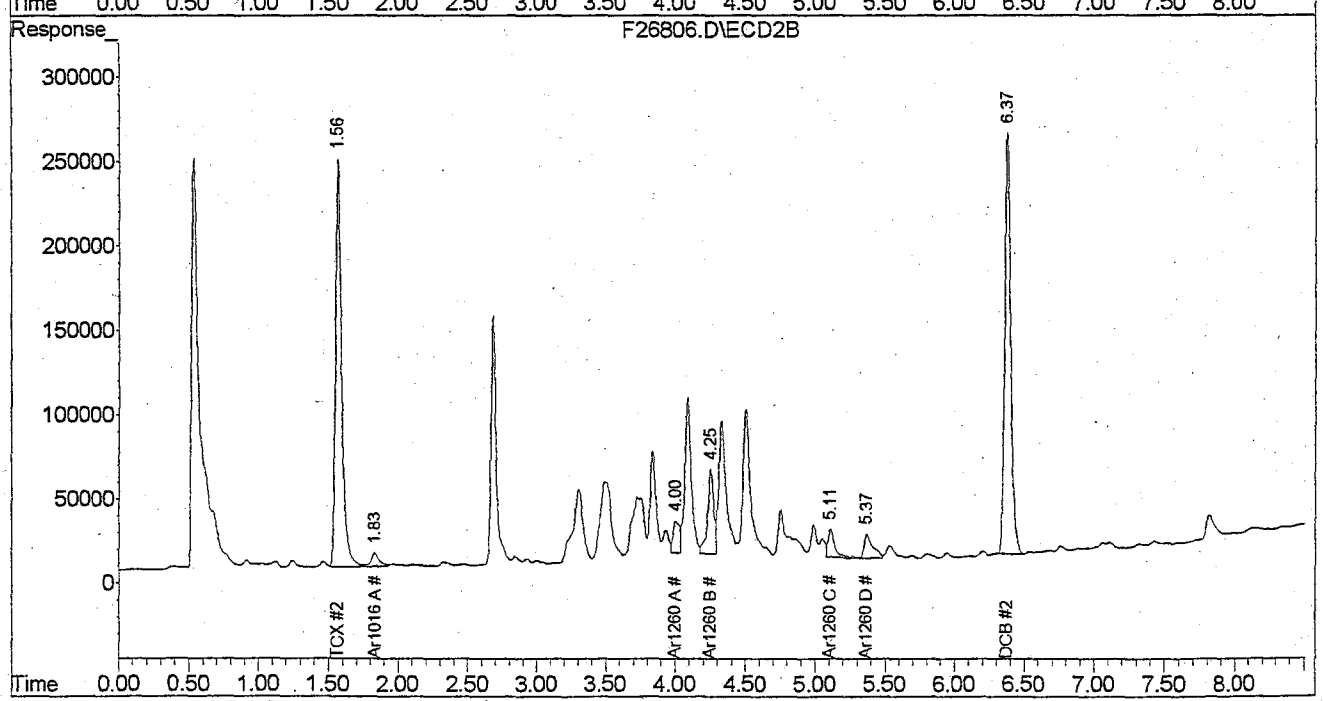
Quantitation Report (Not Reviewed)

Signal #1 : D:\HPCHEM\2\DATA\083002-F\F26806.D\ECD1A.CH Vial: 6
Signal #2 : D:\HPCHEM\2\DATA\083002-F\F26806.D\ECD2B.CH
Acq On : 30 Aug 2002 6:21 pm Operator:
Sample : 48177-1 Inst : Instrume
Misc : SOIL Multiplr: 1.00
IntFile Signal #1: PCBINT.E IntFile Signal #2: PCBINT2.E
Quant Time: Aug 30 21:15 2002 Quant Results File: PBQ8092.RES

Quant Method : D:\HPCHEM\2\METHODS\PBQ8092.M (Chemstation Integrator)
Title : Aroclor 1016/1260
Last Update : Fri Aug 30 16:51:30 2002
Response via : Multiple Level Calibration
DataAcq Meth : PCB.M

Volume Inj. : 3 ul
Signal #1 Phase : DB-1701 Widebore Signal #2 Phase: DB-5 Widebore
Signal #1 Info : 0.53 mm , 1.0um f Signal #2 Info : 0.53 mm, 1.5um fil





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Mr. Dan Sullivan
Foster Wheeler Environmental Corp.
P.O. Box 660
Kittery ME 03904

September 3, 2002

SAMPLE DATA

Lab Sample ID:	48177-2
Matrix:	Solid
Percent Solid:	92
Dilution Factor:	1.1
Collection Date:	08/29/02
Lab Receipt Date:	08/30/02
Extraction Date:	08/30/02
Analysis Date:	08/30/02

CLIENT SAMPLE ID

Project Name:	PCB SOIL C/U; BLDG 335
Project Number:	CTO 33
Field Sample ID:	CS-4-7-WSW-1

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/kg	Results µg/kg
PCB-1016	17	U
PCB-1221	17	U
PCB-1232	17	U
PCB-1242	17	U
PCB-1248	17	U
PCB-1254	17	**588**
PCB-1260	17	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	89	%
Decachlorobiphenyl	104	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3545.

COMMENTS: Results are expressed on a dry weight basis.

PCB Report

Authorized signature

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PCB CONFIRMATION RESULTS

Quote#: SDG: 48177

Project No: CTO 33 Site ID: PCB Soil C/U Bldg 335 Location: Topsham, ME

Instrument ID: F GC Columns: RTX-CLPesticidesI ID: 0.53(mm)

RTX-CLPesticidesII

Sample ID: 48177-2

COMPOUND	RESPONSE #1 (ug/kg)	RESPONSE #2 (ug/kg)	DIFFERENCE %	#	% DIFFERENCE Acceptance Limit
PCB 1254	565	588	4		40

Column to be used to flag % Difference with an asterisk

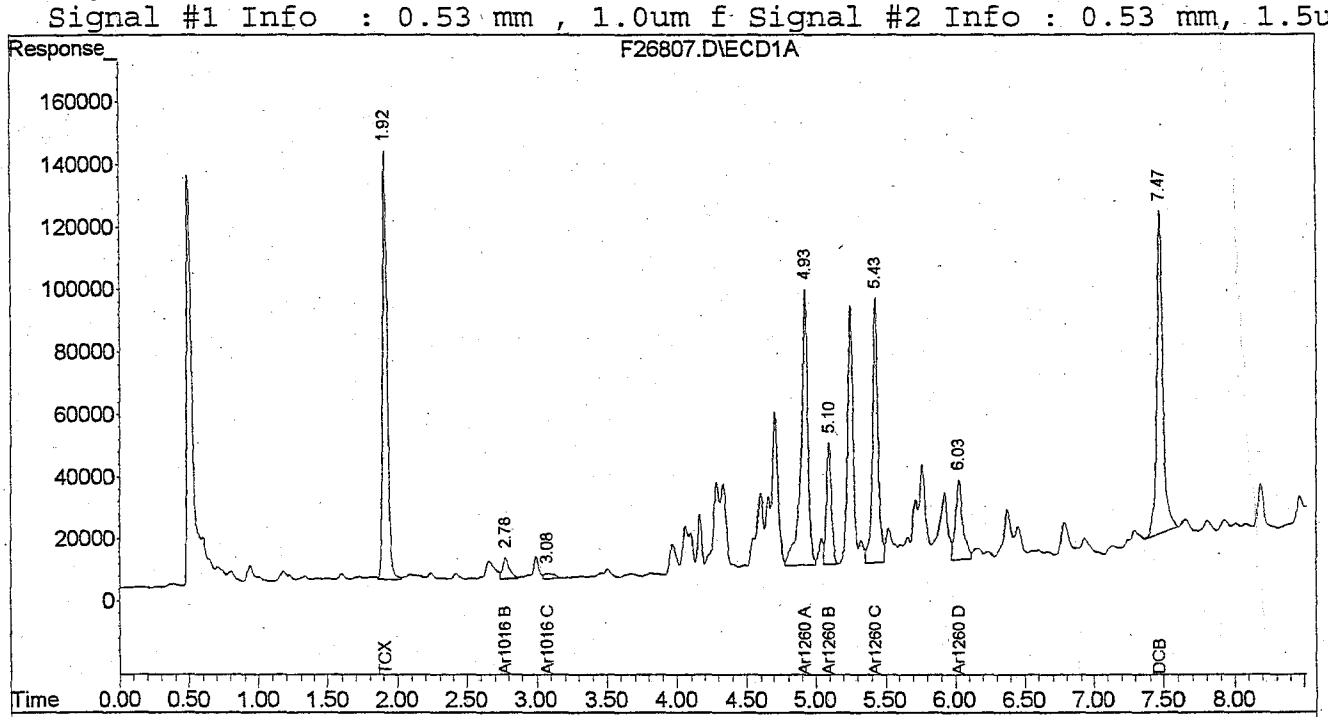
* Values outside of QC limits

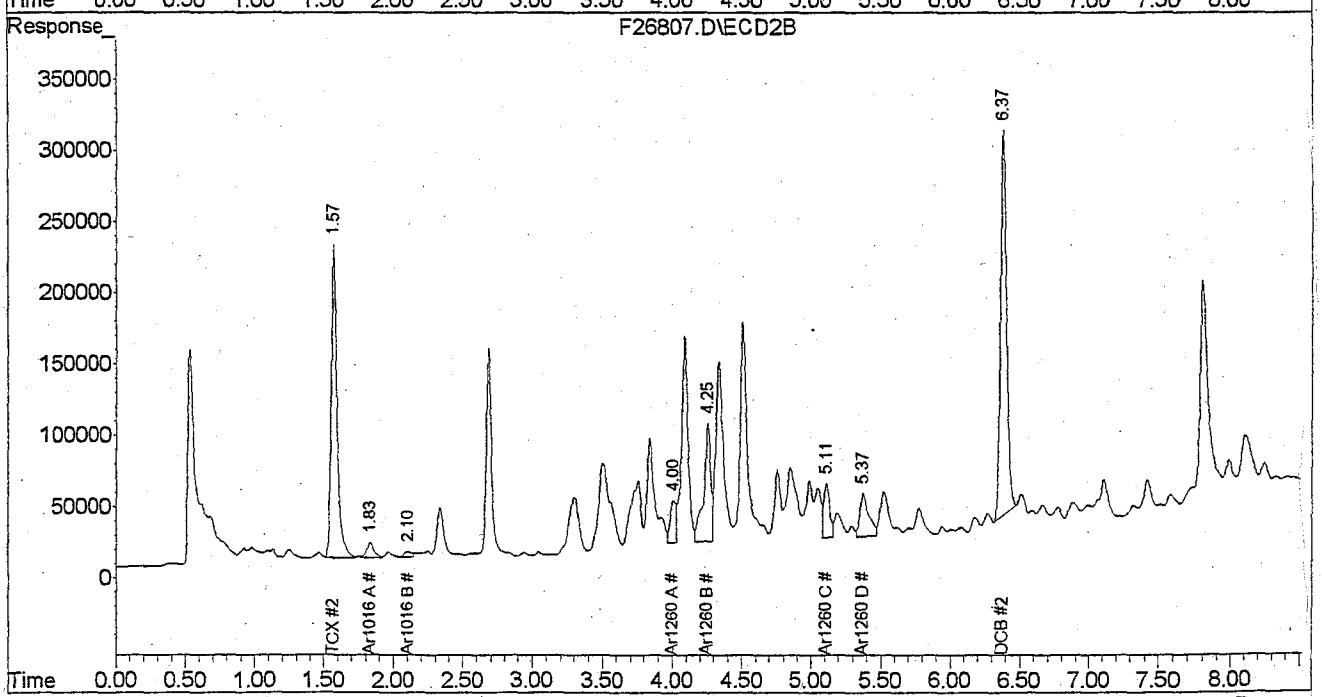
Quantitation Report (Not Reviewed)

Signal #1 : D:\HPCHEM\2\DATA\083002-F\F26807.D\ECD1A.CH Vial: 7
Signal #2 : D:\HPCHEM\2\DATA\083002-F\F26807.D\ECD2B.CH
Acq On : 30 Aug 2002 6:38 pm Operator:
Sample : 48177-2 Inst : Instrume
Misc : SOIL Multiplr: 1.00
IntFile Signal #1: PCBINT.E IntFile Signal #2: PCBINT2.E
Quant Time: Aug 30 21:15 2002 Quant Results File: PBQ8092.RES

Quant Method : D:\HPCHEM\2\METHODS\PBQ8092.M (Chemstation Integrator)
Title : Aroclor 1016/1260
Last Update : Fri Aug 30 16:51:30 2002
Response via : Multiple Level Calibration
DataAcq Meth : PCB.M

Volume Inj. : 3 ul
Signal #1 Phase : DB-1701 Widebore Signal #2 Phase: DB-5 Widebore
Signal #1 Info : 0.53 mm , 1.0um f Signal #2 Info : 0.53 mm, 1.5um fil





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September 3, 2002

SAMPLE DATA

Lab Sample ID:	48177-3
Matrix:	Solid
Percent Solid:	92
Dilution Factor:	1.1
Collection Date:	08/29/02
Lab Receipt Date:	08/30/02
Extraction Date:	08/30/02
Analysis Date:	08/30/02

CLIENT SAMPLE ID

Project Name:	PCB SOIL C/U; BLDG 335
Project Number:	CTO 33
Field Sample ID:	CS-4-7-NSW-1

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/kg	Results µg/kg
PCB-1016	17	U
PCB-1221	17	U
PCB-1232	17	U
PCB-1242	17	U
PCB-1248	17	U
PCB-1254	17	**539**
PCB-1260	17	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	86	%
Decachlorobiphenyl	107	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3545.

COMMENTS: Results are expressed on a dry weight basis.

PCB Report

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PCB CONFIRMATION RESULTS

Quote#: SDG: 48177

Project No: CTO 33 Site ID: PCB Soil C/U Bldg 335 Location: Topsham, ME

Instrument ID: F GC Columns: RTX-CLPesticidesI ID: 0.53(mm)

RTX-CLPesticidesII

Sample ID: 48177-3

COMPOUND	RESPONSE #1 (ug/kg)	RESPONSE #2 (ug/kg)	DIFFERENCE %	#	% DIFFERENCE Acceptance Limit
PCB 1254	482	539	11		40

Column to be used to flag % Difference with an asterisk

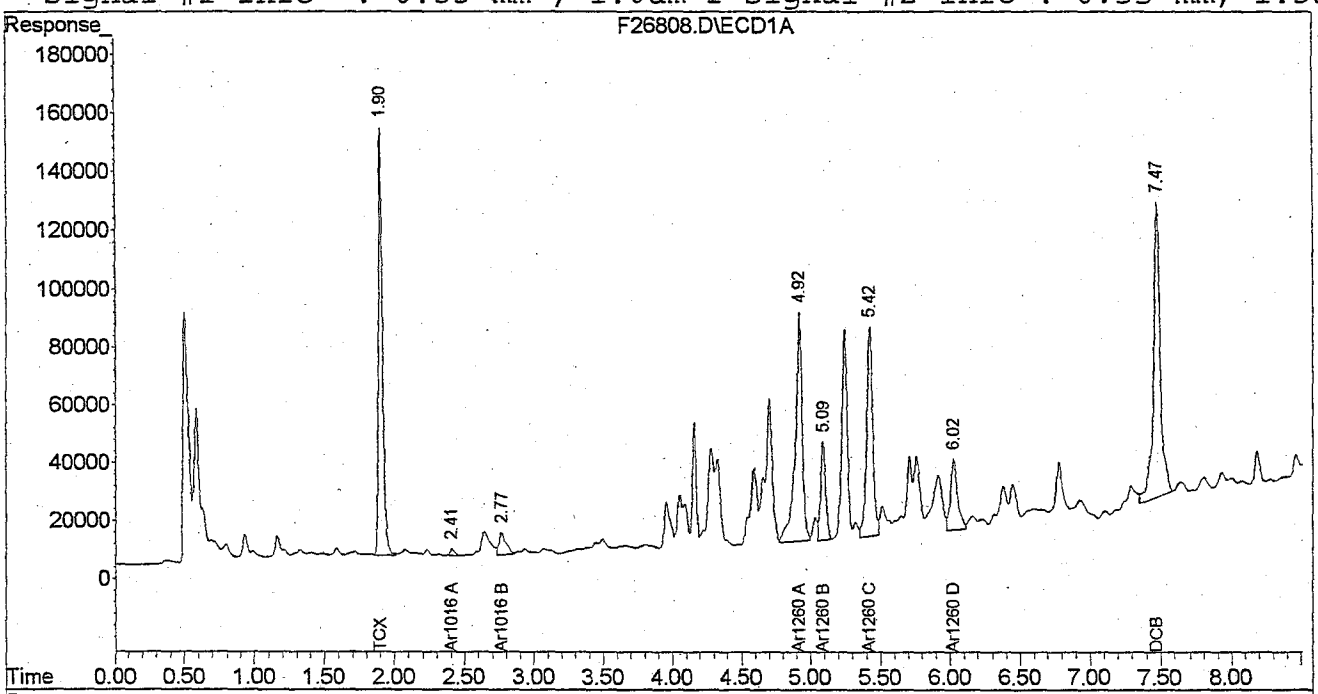
* Values outside of QC limits

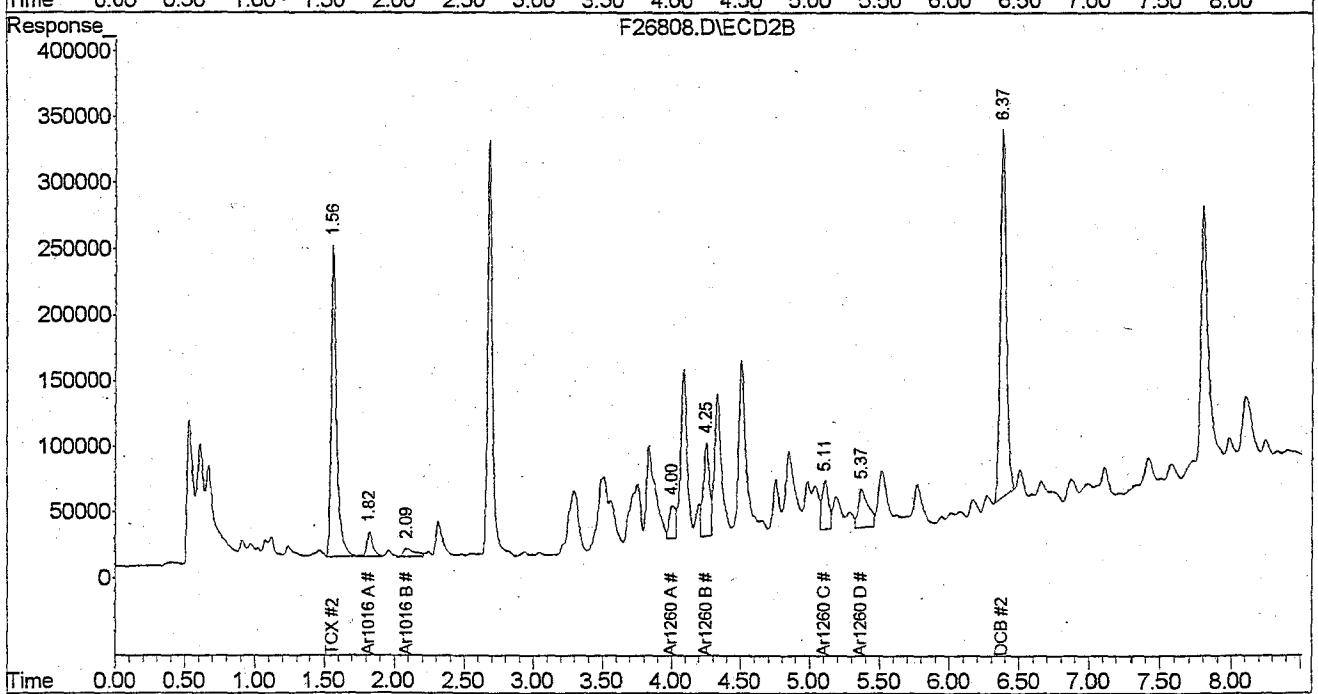
Quantitation Report (Not Reviewed)

Signal #1 : D:\HPCHEM\2\DATA\083002-F\F26808.D\ECD1A.CH Vial: 8
Signal #2 : D:\HPCHEM\2\DATA\083002-F\F26808.D\ECD2B.CH
Acq On : 30 Aug 2002 6:49 pm Operator:
Sample : 48177-3 Inst : Instrume
Misc : SOIL Multiplr: 1.00
IntFile Signal #1: PCBINT.E IntFile Signal #2: PCBINT2.E
Quant Time: Aug 30 21:15 2002 Quant Results File: PBQ8092.RES

Quant Method : D:\HPCHEM\2\METHODS\PBQ8092.M (Chemstation Integrator)
Title : Aroclor 1016/1260
Last Update : Fri Aug 30 16:51:30 2002
Response via : Multiple Level Calibration
DataAcq Meth : PCB.M

Volume Inj. : 3 ul
Signal #1 Phase : DB-1701 Widebore Signal #2 Phase: DB-5 Widebore
Signal #1 Info : 0.53 mm , 1.0um f Signal #2 Info : 0.53 mm, 1.5um fil





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September 3, 2002

SAMPLE DATA

Lab Sample ID:	48177-4
Matrix:	Solid
Percent Solid:	91
Dilution Factor:	1.1
Collection Date:	08/29/02
Lab Receipt Date:	08/30/02
Extraction Date:	08/30/02
Analysis Date:	08/30/02

CLIENT SAMPLE ID

Project Name:	PCB SOIL C/U; BLDG 335
Project Number:	CTO 33
Field Sample ID:	CS-4-7-SSW-1

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/kg	Results µg/kg
PCB-1016	17	U
PCB-1221	17	U
PCB-1232	17	U
PCB-1242	17	U
PCB-1248	17	U
PCB-1254	17	337
PCB-1260	17	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	86	%
Decachlorobiphenyl	98	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3545.

COMMENTS: Results are expressed on a dry weight basis.

PCB Report

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PCB CONFIRMATION RESULTS

Quote#: SDG: 48177

Project No: CTO 33 Site ID: PCB Soil C/U Bldg 335 Location: Topsham, ME

Instrument ID: F GC Columns: RTX-CLPesticidesI ID: 0.53(mm)

RTX-CLPesticidesII

Sample ID: 48177-4

COMPOUND	RESPONSE #1 (ug/kg)	RESPONSE #2 (ug/kg)	DIFFERENCE %	#	% DIFFERENCE Acceptance Limit
PCB 1254	291	337	15		40

Column to be used to flag % Difference with an asterisk

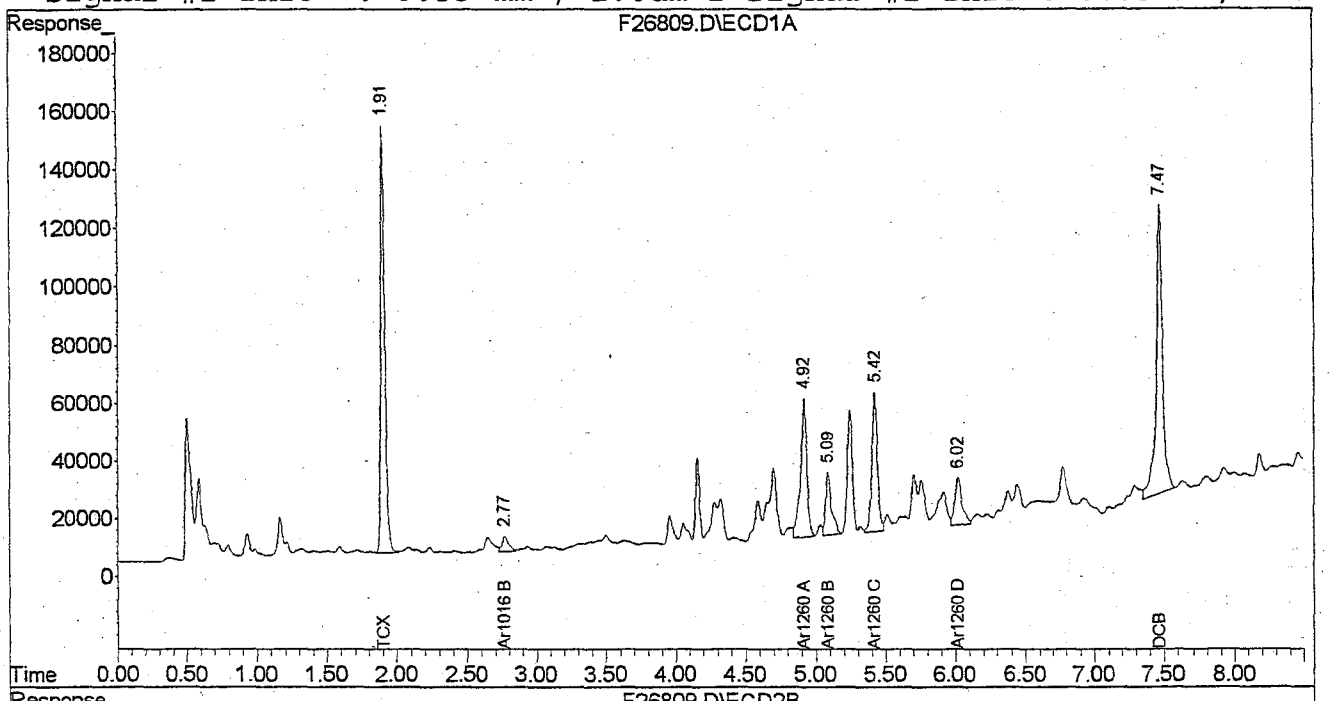
* Values outside of QC limits

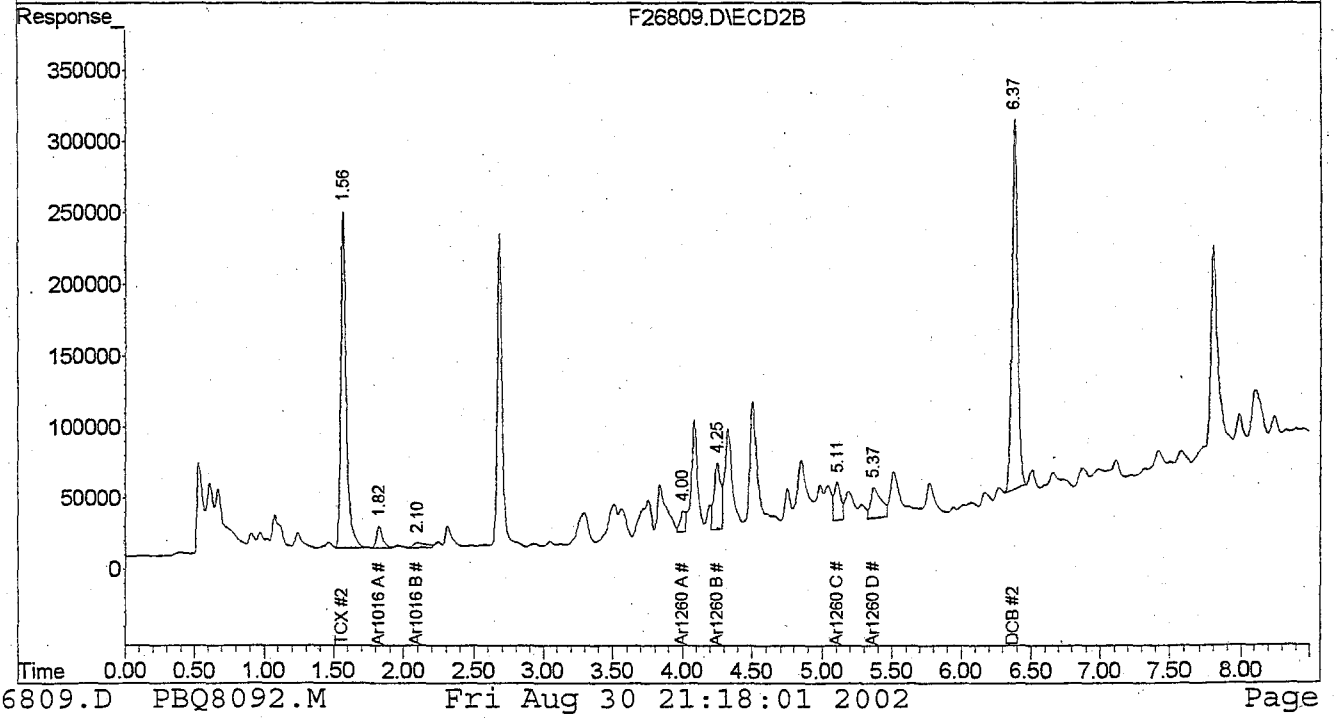
Quantitation Report (Not Reviewed)

Signal #1 : D:\HPCHEM\2\DATA\083002-F\F26809.D\ECD1A.CH Vial: 9
Signal #2 : D:\HPCHEM\2\DATA\083002-F\F26809.D\ECD2B.CH
Acq On : 30 Aug 2002 7:01 pm Operator:
Sample : 48177-4 Inst : Instrume
Misc : SOIL Multiplr: 1.00
IntFile Signal #1: PCBINT.E IntFile Signal #2: PCBINT2.E
Quant Time: Aug 30 21:15 2002 Quant Results File: PBQ8092.RES

Quant Method : D:\HPCHEM\2\METHODS\PBQ8092.M (Chemstation Integrator)
Title : Aroclor 1016/1260
Last Update : Fri Aug 30 16:51:30 2002
Response via : Multiple Level Calibration
DataAcq Meth : PCB.M

Volume Inj. : 3 ul
Signal #1 Phase : DB-1701 Widebore Signal #2 Phase: DB-5 Widebore
Signal #1 Info : 0.53 mm , 1.0um f Signal #2 Info : 0.53 mm, 1.5um fil





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September 3, 2002

SAMPLE DATA

Lab Sample ID:	48177-5
Matrix:	Solid
Percent Solid:	90
Dilution Factor:	1.1
Collection Date:	08/29/02
Lab Receipt Date:	08/30/02
Extraction Date:	08/30/02
Analysis Date:	08/30/02

CLIENT SAMPLE ID

Project Name:	PCB SOIL C/U; BLDG 335
Project Number:	CTO 33
Field Sample ID:	CS-7-7-SBS

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/kg	Results µg/kg
PCB-1016	17	U
PCB-1221	17	U
PCB-1232	17	U
PCB-1242	17	U
PCB-1248	17	U
PCB-1254	17	**29**
PCB-1260	17	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	91	%
Decachlorobiphenyl	86	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3545.

COMMENTS: Results are expressed on a dry weight basis.

PCB Report

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PCB CONFIRMATION RESULTS

Quote#:

SDG: 48177

Project No: CTO 33

Site ID: PCB Soil C/U Bldg 335

Location: Topsham, ME

Instrument ID: F

GC Columns: RTX-CLPesticidesI
RTX-CLPesticidesII

ID: 0.53(mm)

Sample ID: 48177-5

COMPOUND	RESPONSE #1 (ug/kg)	RESPONSE #2 (ug/kg)	DIFFERENCE %	#	% DIFFERENCE Acceptance Limit
PCB 1254	23	29	23		40

Column to be used to flag % Difference with an asterisk

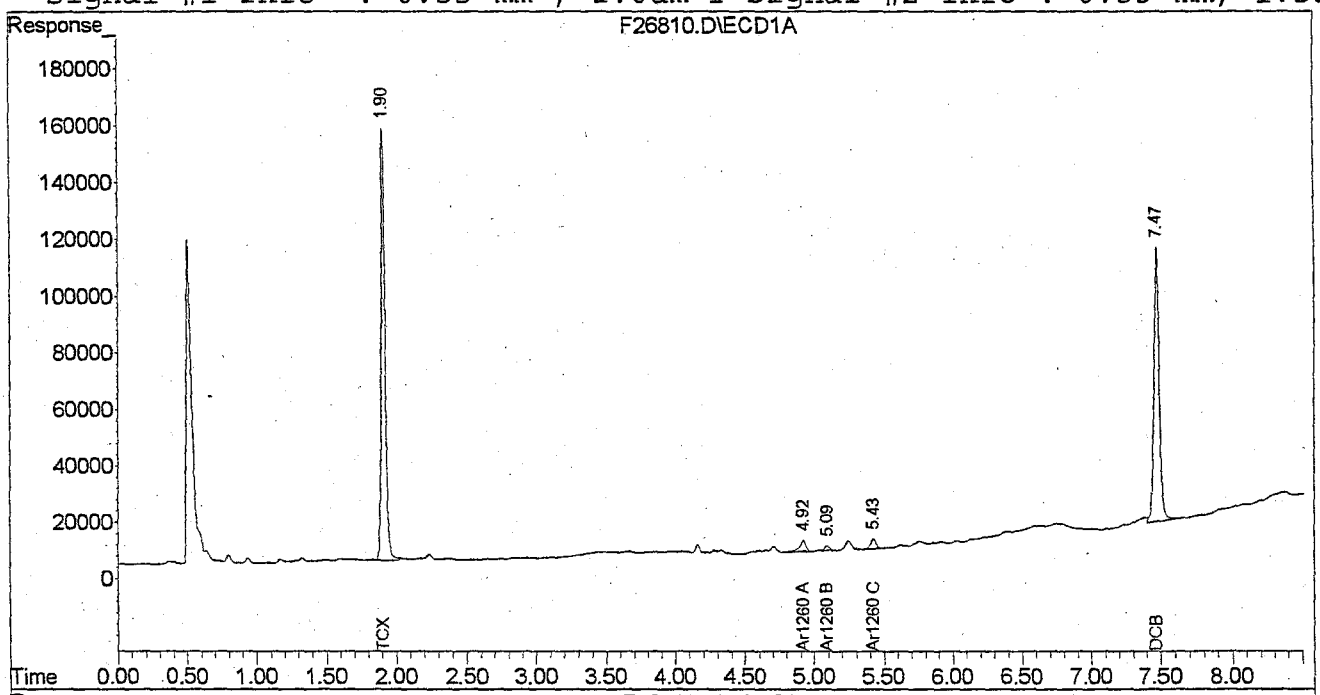
* Values outside of QC limits

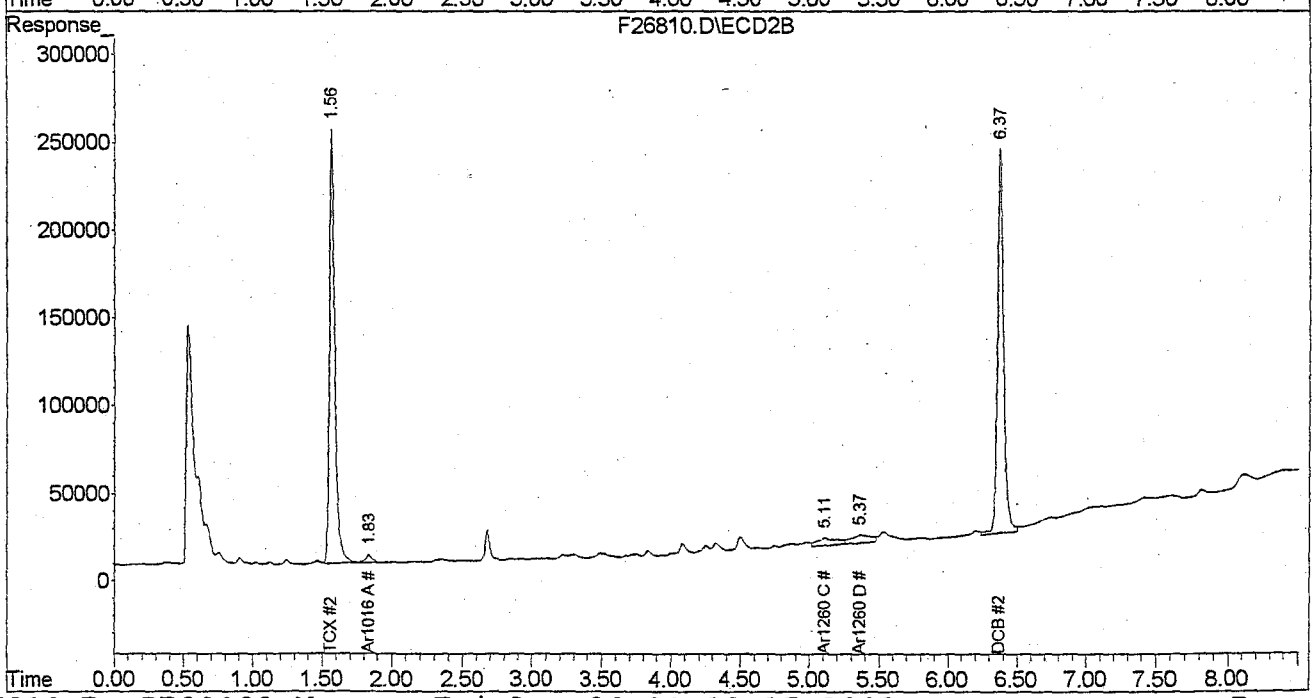
Quantitation Report (Not Reviewed)

Signal #1 : D:\HPCHEM\2\DATA\083002-F\F26810.D\ECD1A.CH Vial: 10
Signal #2 : D:\HPCHEM\2\DATA\083002-F\F26810.D\ECD2B.CH
Acq On : 30 Aug 2002 7:12 pm Operator:
Sample : 48177-5 Inst : Instrume
Misc : SOIL Multiplr: 1.00
IntFile Signal #1: PCBINT.E IntFile Signal #2: PCBINT2.E
Quant Time: Aug 30 21:16 2002 Quant Results File: PBQ8092.RES

Quant Method : D:\HPCHEM\2\METHODS\PBQ8092.M (Chemstation Integrator)
Title : Aroclor 1016/1260
Last Update : Fri Aug 30 16:51:30 2002
Response via : Multiple Level Calibration
DataAcq Meth : PCB.M

Volume Inj. : 3 ul
Signal #1 Phase : DB-1701 Widebore Signal #2 Phase: DB-5 Widebore
Signal #1 Info : 0.53 mm , 1.0um f Signal #2 Info : 0.53 mm, 1.5um fil





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September 3, 2002

SAMPLE DATA

Lab Sample ID:	48177-6
Matrix:	Solid
Percent Solid:	93
Dilution Factor:	1.1
Collection Date:	08/29/02
Lab Receipt Date:	08/30/02
Extraction Date:	08/30/02
Analysis Date:	08/30/02

CLIENT SAMPLE ID

Project Name:	PCB SOIL C/U; BLDG 335
Project Number:	CTO 33
Field Sample ID:	CS-7-7-WSW-1

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/kg	Results µg/kg
PCB-1016	17	U
PCB-1221	17	U
PCB-1232	17	U
PCB-1242	17	U
PCB-1248	17	U
PCB-1254	17	**103**
PCB-1260	17	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	89	%
Decachlorobiphenyl	88	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3545.

COMMENTS: Results are expressed on a dry weight basis.

PCB Report

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PCB CONFIRMATION RESULTS

Quote#: SDG: 48177

Project No: CTO 33 Site ID: PCB Soil C/U Bldg 335 Location: Topsham, ME

Instrument ID: F GC Columns: RTX-CLPesticidesI ID: 0.53(mm)

RTX-CLPesticidesII

Sample ID: 48177-6

COMPOUND	RESPONSE #1 (ug/kg)	RESPONSE #2 (ug/kg)	DIFFERENCE %	#	% DIFFERENCE Acceptance Limit
PCB 1254	123	103	18		40

Column to be used to flag % Difference with an asterisk

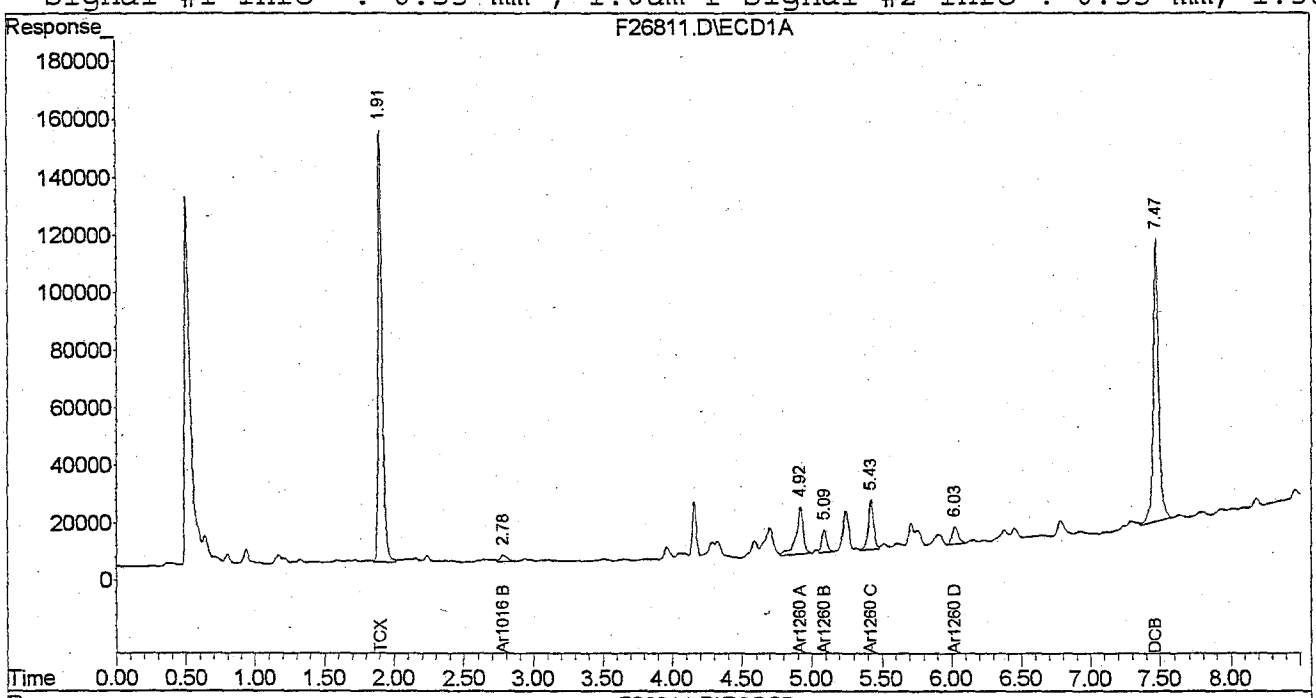
* Values outside of QC limits

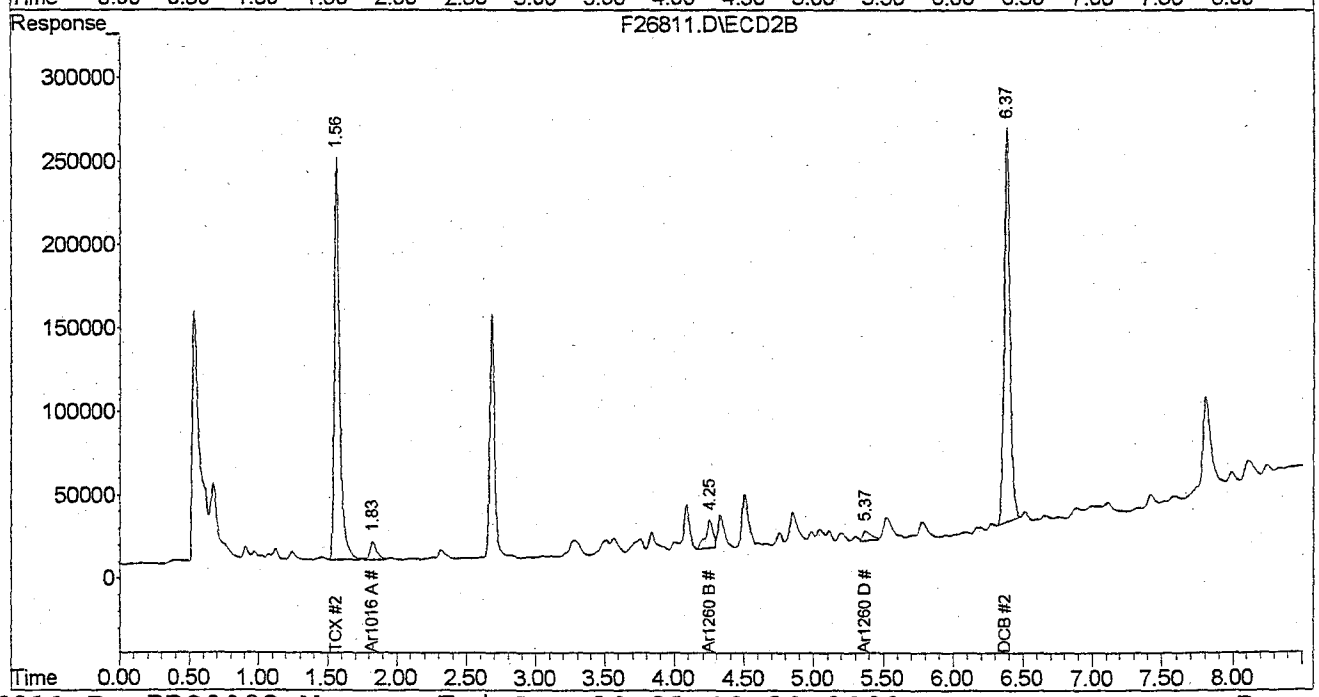
Quantitation Report (Not Reviewed)

Signal #1 : D:\HPCHEM\2\DATA\083002-F\F26811.D\ECD1A.CH Vial: 11
Signal #2 : D:\HPCHEM\2\DATA\083002-F\F26811.D\ECD2B.CH
Acq On : 30 Aug 2002 7:24 pm Operator:
Sample : 48177-6 Inst : Instrume
Misc : SOIL Multiplr: 1.00
IntFile Signal #1: PCBINT.E IntFile Signal #2: PCBINT2.E
Quant Time: Aug 30 21:16 2002 Quant Results File: PBQ8092.RES

Quant Method : D:\HPCHEM\2\METHODS\PBQ8092.M (Chemstation Integrator)
Title : Aroclor 1016/1260
Last Update : Fri Aug 30 16:51:30 2002
Response via : Multiple Level Calibration
DataAcq Meth : PCB.M

Volume Inj. : 3 ul
Signal #1 Phase : DB-1701 Widebore Signal #2 Phase: DB-5 Widebore
Signal #1 Info : 0.53 mm , 1.0um f Signal #2 Info : 0.53 mm, 1.5um fil





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September 3, 2002

SAMPLE DATA

Lab Sample ID:	48177-7
Matrix:	Solid
Percent Solid:	90
Dilution Factor:	1.1
Collection Date:	08/29/02
Lab Receipt Date:	08/30/02
Extraction Date:	08/30/02
Analysis Date:	08/30/02

CLIENT SAMPLE ID

Project Name:	PCB SOIL C/U; BLDG 335
Project Number:	CTO 33
Field Sample ID:	CS-7-7-SSW-1

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/kg	Results µg/kg
PCB-1016	17	U
PCB-1221	17	U
PCB-1232	17	U
PCB-1242	17	U
PCB-1248	17	U
PCB-1254	17	95
PCB-1260	17	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	104	%
Decachlorobiphenyl	85	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3545.

COMMENTS: Results are expressed on a dry weight basis.

PCB Report

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PCB CONFIRMATION RESULTS

Quote#:

SDG: 48177

Project No: CTO 33

Site ID: PCB Soil C/U Bldg 335

Location: Topsham, ME

Instrument ID: F

GC Columns: RTX-CLPesticidesI
RTX-CLPesticidesII

ID: 0.53(mm)

Sample ID: 48177-7

COMPOUND	RESPONSE #1 (ug/kg)	RESPONSE #2 (ug/kg)	DIFFERENCE %	#	% DIFFERENCE Acceptance Limit
PCB 1254	120	95	23		40

Column to be used to flag % Difference with an asterisk

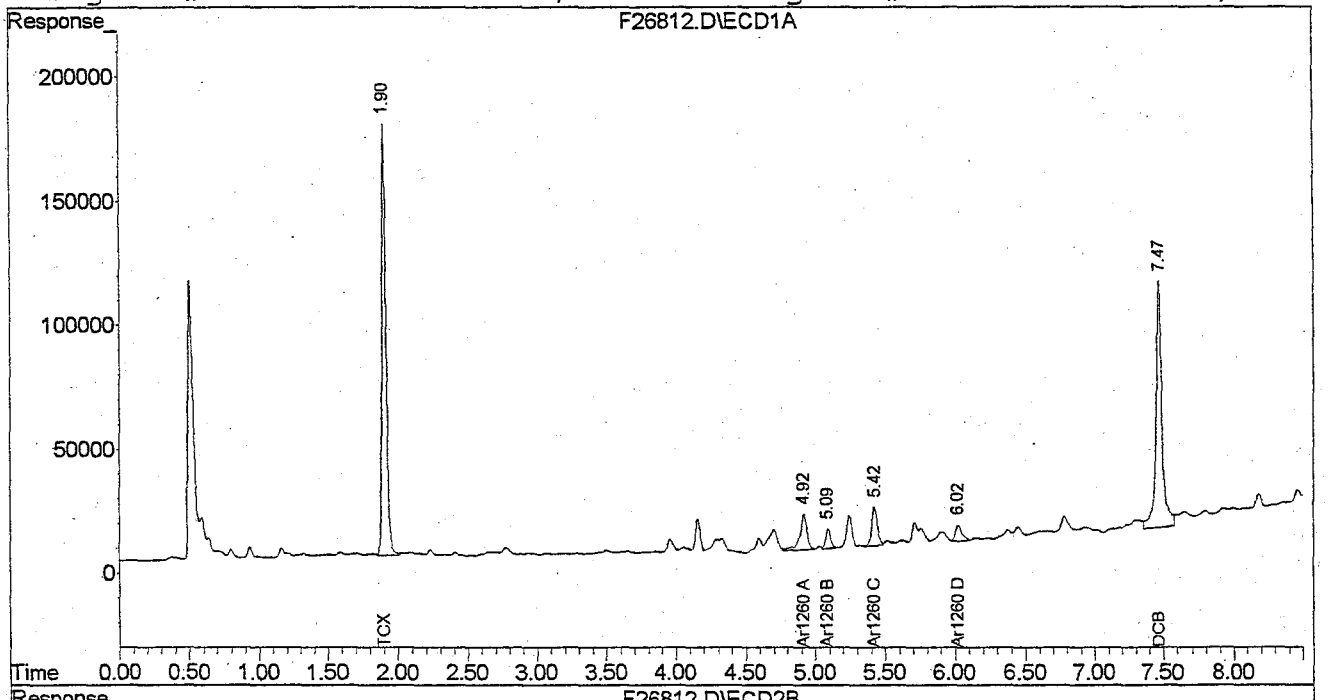
* Values outside of QC limits

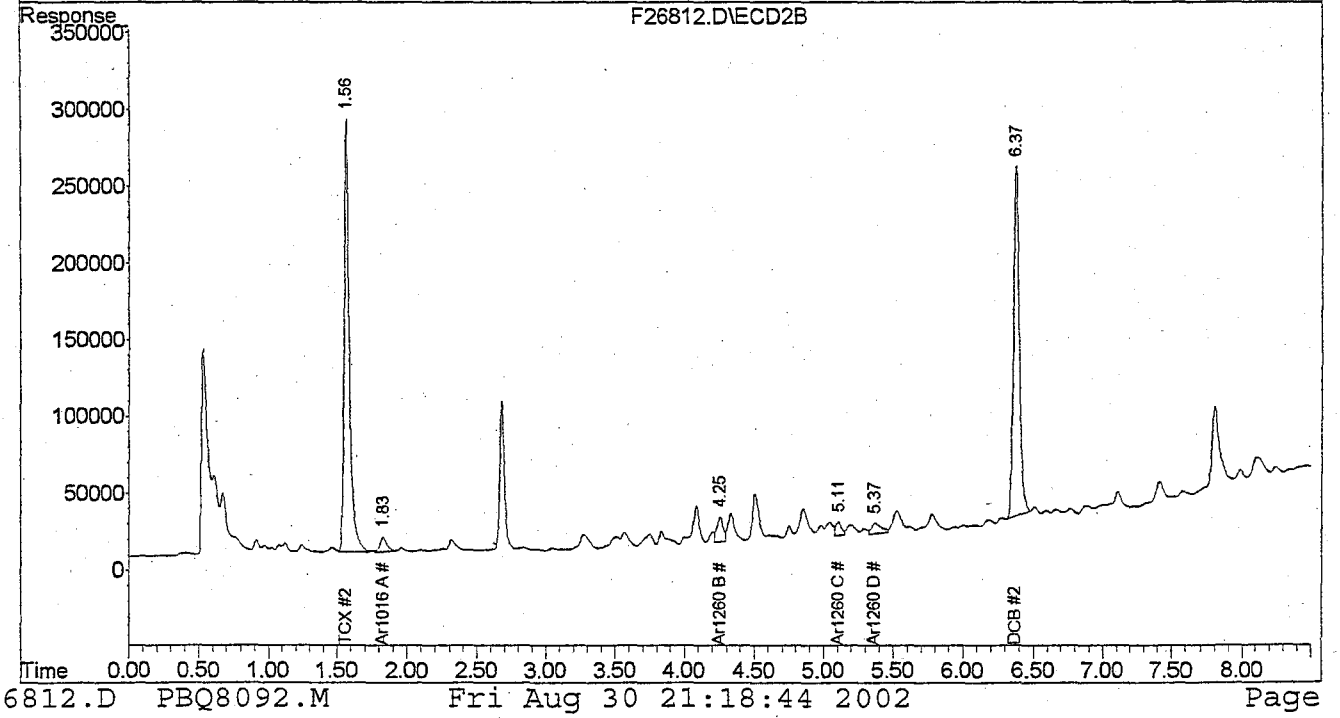
Quantitation Report (Not Reviewed)

Signal #1 : D:\HPCHEM\2\DATA\083002-F\F26812.D\ECD1A.CH Vial: 12
Signal #2 : D:\HPCHEM\2\DATA\083002-F\F26812.D\ECD2B.CH
Acq On : 30 Aug 2002 7:36 pm Operator:
Sample : 48177-7 Inst : Instrume
Misc : SOIL Multiplr: 1.00
IntFile Signal #1: PCBINT.E IntFile Signal #2: PCBINT2.E
Quant Time: Aug 30 21:16 2002 Quant Results File: PBQ8092.RES

Quant Method : D:\HPCHEM\2\METHODS\PBQ8092.M (Chemstation Integrator)
Title : Aroclor 1016/1260
Last Update : Fri Aug 30 16:51:30 2002
Response via : Multiple Level Calibration
DataAcq Meth : PCB.M

Volume Inj. : 3 ul
Signal #1 Phase : DB-1701 Widebore Signal #2 Phase: DB-5 Widebore
Signal #1 Info : 0.53 mm , 1.0um f Signal #2 Info : 0.53 mm, 1.5um fil





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September 3, 2002

SAMPLE DATA

Lab Sample ID:	48177-8
Matrix:	Solid
Percent Solid:	90
Dilution Factor:	1.1
Collection Date:	08/29/02
Lab Receipt Date:	08/30/02
Extraction Date:	08/30/02
Analysis Date:	08/30/02

CLIENT SAMPLE ID

Project Name:	PCB SOIL C/U; BLDG 335
Project Number:	CTO 33
Field Sample ID:	CS-7-7-ESW-1

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/kg	Results µg/kg
PCB-1016	17	U
PCB-1221	17	U
PCB-1232	17	U
PCB-1242	17	U
PCB-1248	17	U
PCB-1254	17	**272**
PCB-1260	17	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	88	%
Decachlorobiphenyl	83	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3545.

COMMENTS: Results are expressed on a dry weight basis.

PCB Report

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PCB CONFIRMATION RESULTS

Quote#:

SDG: 48177

Project No: CTO 33

Site ID: PCB Soil C/U Bldg 335

Location: Topsham, ME

Instrument ID: F

GC Columns: RTX-CLPesticidesI
RTX-CLPesticidesII

ID: 0.53(mm)

Sample ID: 48177-8

COMPOUND	RESPONSE #1 (ug/kg)	RESPONSE #2 (ug/kg)	DIFFERENCE %	#	% DIFFERENCE Acceptance Limit
PCB 1254	266	272	2		40

Column to be used to flag % Difference with an asterisk

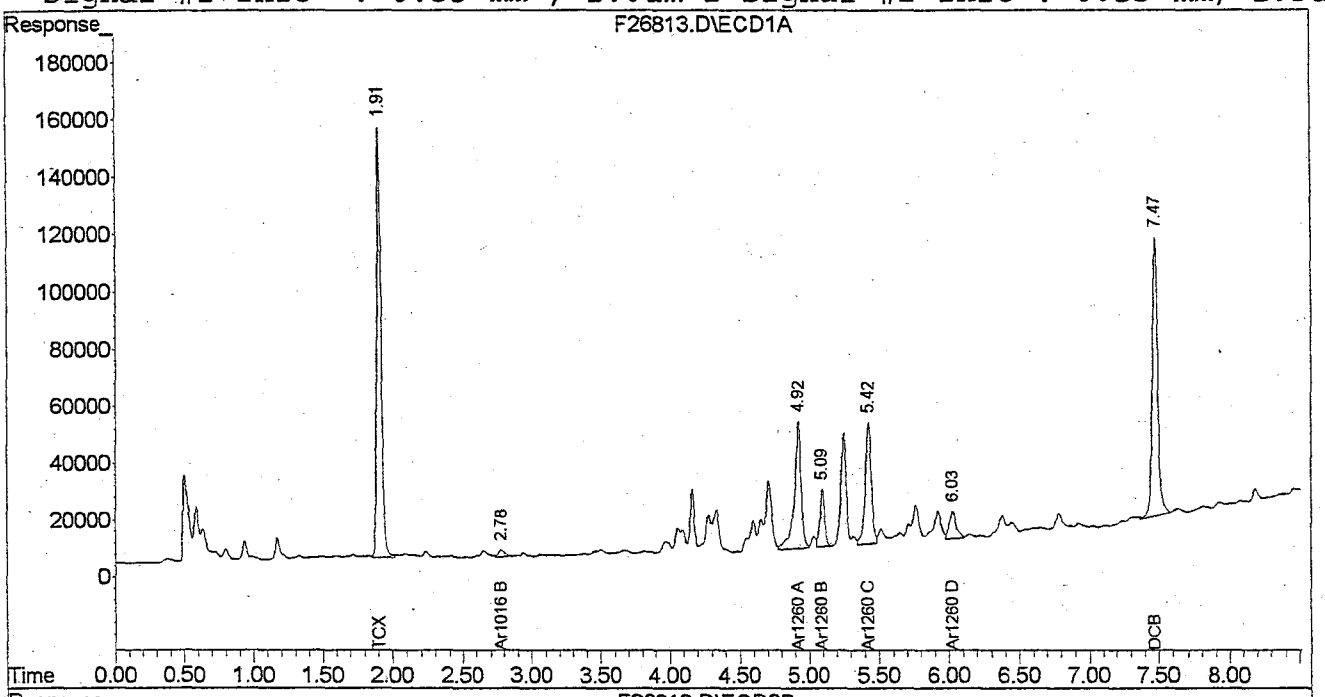
* Values outside of QC limits

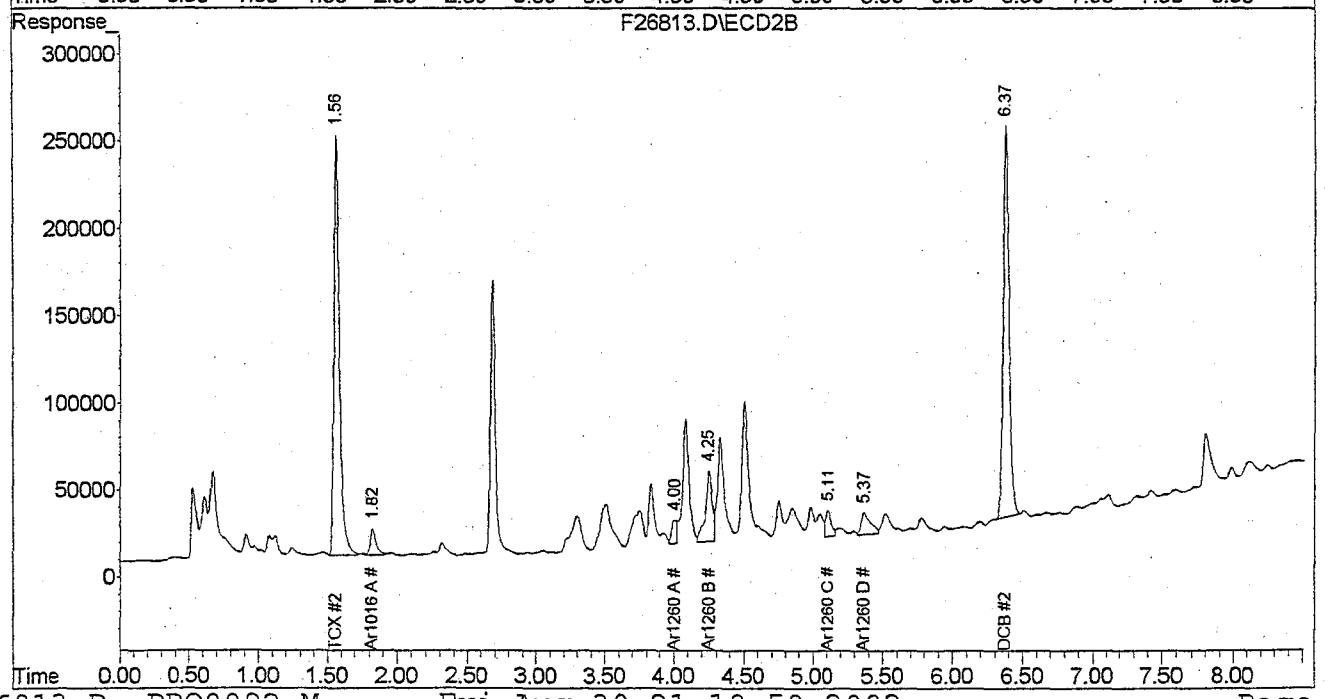
Quantitation Report (Not Reviewed)

Signal #1 : D:\HPCHEM\2\DATA\083002-F\F26813.D\ECD1A.CH Vial: 13
Signal #2 : D:\HPCHEM\2\DATA\083002-F\F26813.D\ECD2B.CH
Acq On : 30 Aug 2002 7:47 pm Operator:
Sample : 48177-8 Inst : Instrume
Misc : SOIL Multiplr: 1.00
IntFile Signal #1: PCBINT.E IntFile Signal #2: PCBINT2.E
Quant Time: Aug 30 21:16 2002 Quant Results File: PBQ8092.RES

Quant Method : D:\HPCHEM\2\METHODS\PBQ8092.M (Chemstation Integrator)
Title : Aroclor 1016/1260
Last Update : Fri Aug 30 16:51:30 2002
Response via : Multiple Level Calibration
DataAcq Meth : PCB.M

Volume Inj. : 3 ul
Signal #1 Phase : DB-1701 Widebore Signal #2 Phase: DB-5 Widebore
Signal #1 Info : 0.53 mm , 1.0um f Signal #2 Info : 0.53 mm, 1.5um fil





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Mr. Dan Sullivan
Foster Wheeler Environmental Corp.
P.O. Box 660
Kittery ME 03904

September 3, 2002

SAMPLE DATA

Lab Sample ID:	48177-9
Matrix:	Solid
Percent Solid:	91
Dilution Factor:	1.1
Collection Date:	08/29/02
Lab Receipt Date:	08/30/02
Extraction Date:	08/30/02
Analysis Date:	08/30/02

CLIENT SAMPLE ID

Project Name:	PCB SOIL C/U; BLDG 335
Project Number:	CTO 33
Field Sample ID:	CS-9-7-BS

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/kg	Results µg/kg
PCB-1016	17	U
PCB-1221	17	U
PCB-1232	17	U
PCB-1242	17	U
PCB-1248	17	U
PCB-1254	17	272
PCB-1260	17	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	93	%
Decachlorobiphenyl	85	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3545.

COMMENTS: Results are expressed on a dry weight basis.

PCB Report

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PCB CONFIRMATION RESULTS

Quote#: SDG: 48177

Project No: CTO 33 Site ID: PCB Soil C/U Bldg 335 Location: Topsham, ME

Instrument ID: F GC Columns: RTX-CLPesticidesI ID: 0.53(mm)

RTX-CLPesticidesII

Sample ID: 48177-9

COMPOUND	RESPONSE #1 (ug/kg)	RESPONSE #2 (ug/kg)	DIFFERENCE %	#	% DIFFERENCE Acceptance Limit
PCB 1254	280	272	3		40

Column to be used to flag % Difference with an asterisk

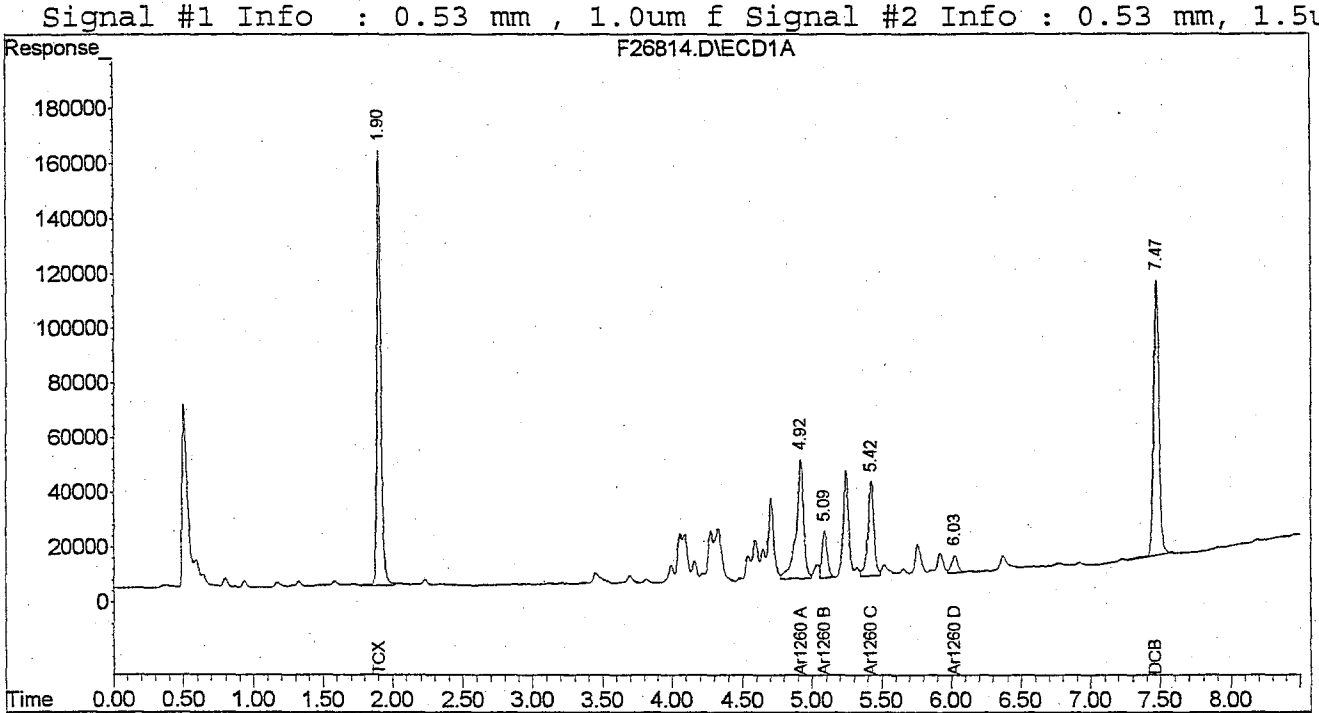
* Values outside of QC limits

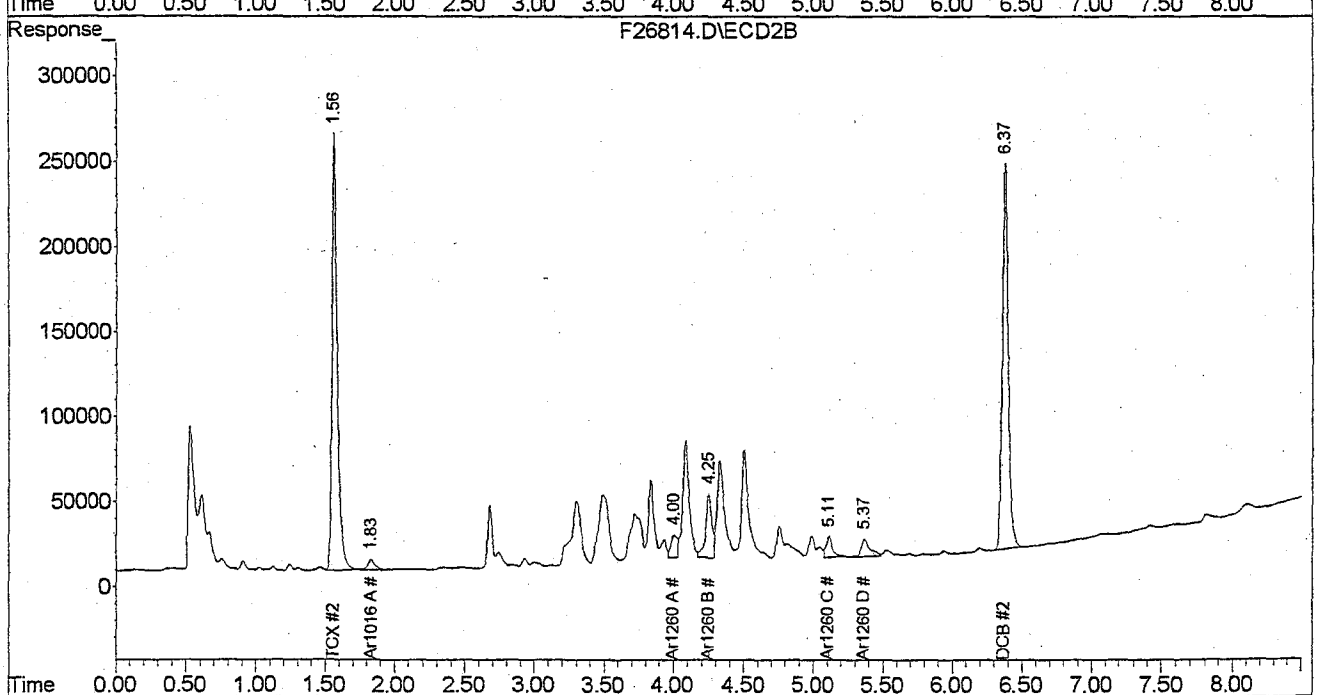
Quantitation Report (Not Reviewed)

Signal #1 : D:\HPCHEM\2\DATA\083002-F\F26814.D\ECD1A.CH Vial: 14
Signal #2 : D:\HPCHEM\2\DATA\083002-F\F26814.D\ECD2B.CH
Acq On : 30 Aug 2002 7:59 pm Operator:
Sample : 48177-9 Inst : Instrume
Misc : SOIL Multiplr: 1.00
IntFile Signal #1: PCBINT.E IntFile Signal #2: PCBINT2.E
Quant Time: Aug 30 21:16 2002 Quant Results File: PBQ8092.RES

Quant Method : D:\HPCHEM\2\METHODS\PBQ8092.M (Chemstation Integrator)
Title : Aroclor 1016/1260
Last Update : Fri Aug 30 16:51:30 2002
Response via : Multiple Level Calibration
DataAcq Meth : PCB.M

Volume Inj. : 3 ul
Signal #1 Phase : DB-1701 Widebore Signal #2 Phase: DB-5 Widebore
Signal #1 Info : 0.53 mm , 1.0um f Signal #2 Info : 0.53 mm, 1.5um fil





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September 3, 2002

SAMPLE DATA

Lab Sample ID:	48177-10
Matrix:	Solid
Percent Solid:	90
Dilution Factor:	1.0
Collection Date:	08/30/02
Lab Receipt Date:	08/30/02
Extraction Date:	08/30/02
Analysis Date:	08/30/02

CLIENT SAMPLE ID

Project Name:	PCB SOIL C/U; BLDG 335
Project Number:	CTO 33
Field Sample ID:	CS-9-7-ESW-1

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/kg	Results µg/kg
PCB-1016	15	U
PCB-1221	15	U
PCB-1232	15	U
PCB-1242	15	U
PCB-1248	15	U
PCB-1254	15	**69**
PCB-1260	15	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	94	%
Decachlorobiphenyl	85	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3545.

COMMENTS: Results are expressed on a dry weight basis.

PCB Report

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PCB CONFIRMATION RESULTS

Quote#:

SDG: 48177

Project No: CTO 33

Site ID: PCB Soil C/U Bldg 335

Location: Topsham, ME

Instrument ID: F

GC Columns: RTX-CLPesticidesI
RTX-CLPesticidesII

ID: 0.53(mm)

Sample ID: 48177-10

COMPOUND	RESPONSE #1 (ug/kg)	RESPONSE #2 (ug/kg)	DIFFERENCE %	#	% DIFFERENCE Acceptance Limit
PCB 1254	76	69	10		40

Column to be used to flag % Difference with an asterisk

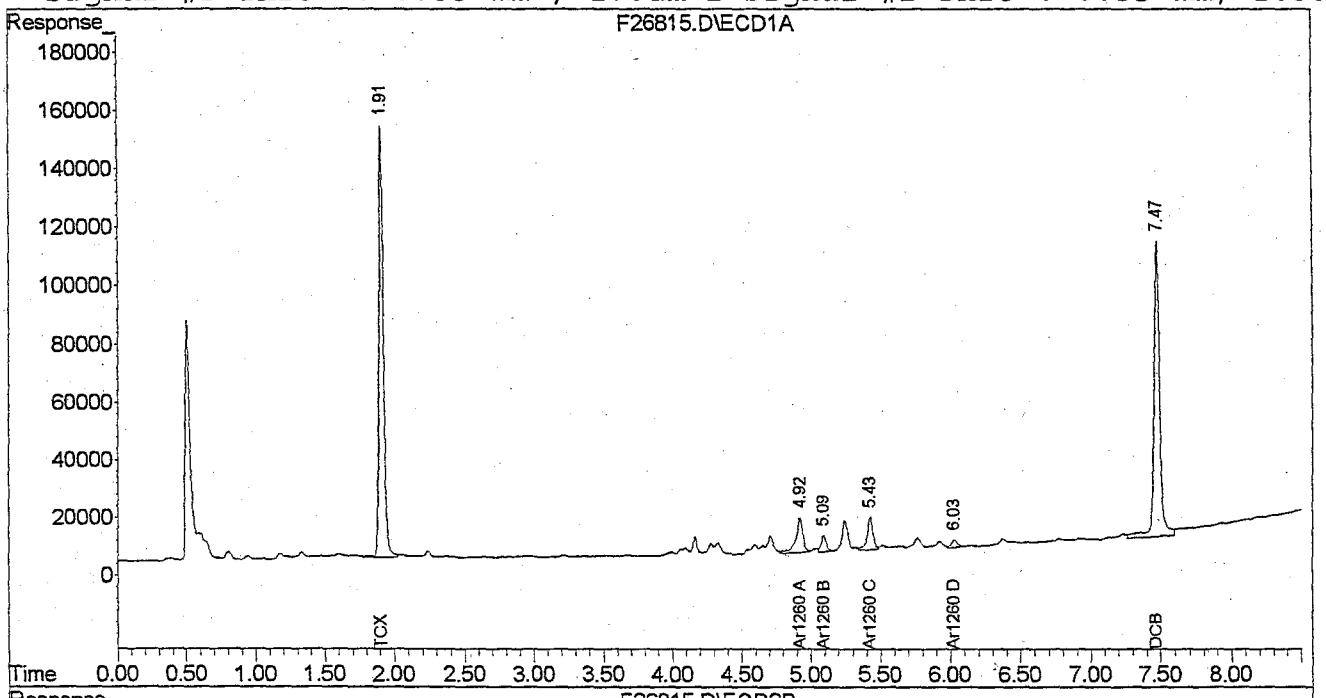
* Values outside of QC limits

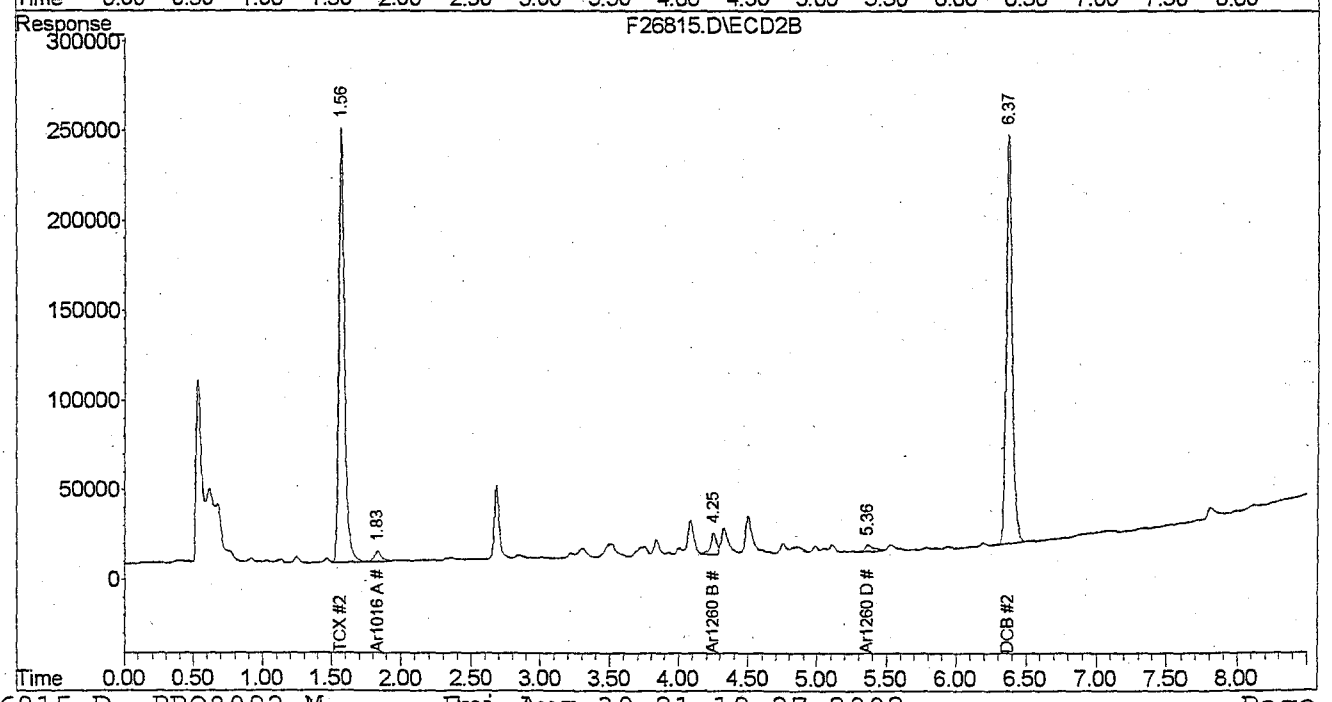
Quantitation Report (Not Reviewed)

Signal #1 : D:\HPCHEM\2\DATA\083002-F\F26815.D\ECD1A.CH Vial: 15
Signal #2 : D:\HPCHEM\2\DATA\083002-F\F26815.D\ECD2B.CH
Acq On : 30 Aug 2002 8:10 pm Operator:
Sample : 48177-10 Inst : Instrume
Misc : SOIL Multiplr: 1.00
IntFile Signal #1: PCBINT.E IntFile Signal #2: PCBINT2.E
Quant Time: Aug 30 21:16 2002 Quant Results File: PBQ8092.RES

Quant Method : D:\HPCHEM\2\METHODS\PBQ8092.M (Chemstation Integrator)
Title : Aroclor 1016/1260
Last Update : Fri Aug 30 16:51:30 2002
Response via : Multiple Level Calibration
DataAcq Meth : PCB.M

Volume Inj. : 3 ul
Signal #1 Phase : DB-1701 Widebore Signal #2 Phase: DB-5 Widebore
Signal #1 Info : 0.53 mm , 1.0um f Signal #2 Info : 0.53 mm, 1.5um fil





036/099

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September 3, 2002

SAMPLE DATA

CLIENT SAMPLE ID

Project Name: PCB SOIL C/U; BLDG 335

Project Number: CTO 33

Field Sample ID: CS-6-7-BS

Lab Sample ID: 48177-11
Matrix: Solid
Percent Solid: 83
Dilution Factor: 1.2
Collection Date: 08/30/02
Lab Receipt Date: 08/30/02
Extraction Date: 08/30/02
Analysis Date: 08/30/02

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/kg	Results µg/kg
PCB-1016	18	U
PCB-1221	18	U
PCB-1232	18	U
PCB-1242	18	U
PCB-1248	18	U
PCB-1254	18	**17 J**
PCB-1260	18	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	89	%
Decachlorobiphenyl	83	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3545.

COMMENTS: Results are expressed on a dry weight basis.

PCB Report

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PCB CONFIRMATION RESULTS

Quote#: SDG: 48177

Project No: CTO 33 Site ID: PCB Soil C/U Bldg 335 Location: Topsham, ME

Instrument ID: F GC Columns: RTX-CLPesticidesI ID: 0.53(mm)

RTX-CLPesticidesII

Sample ID: 48177-11

COMPOUND	RESPONSE #1 (ug/kg)	RESPONSE #2 (ug/kg)	DIFFERENCE %	#	% DIFFERENCE Acceptance Limit
PCB 1254	17 J	17 J	0		40

Column to be used to flag % Difference with an asterisk

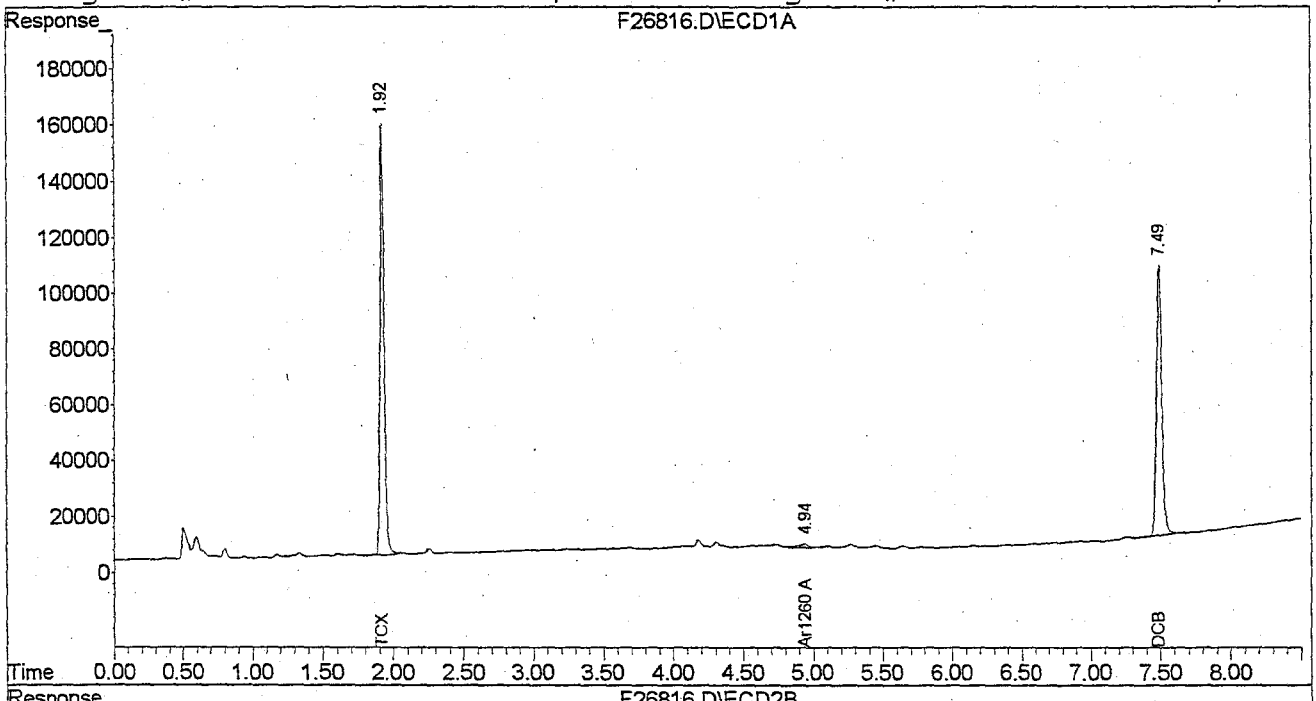
* Values outside of QC limits

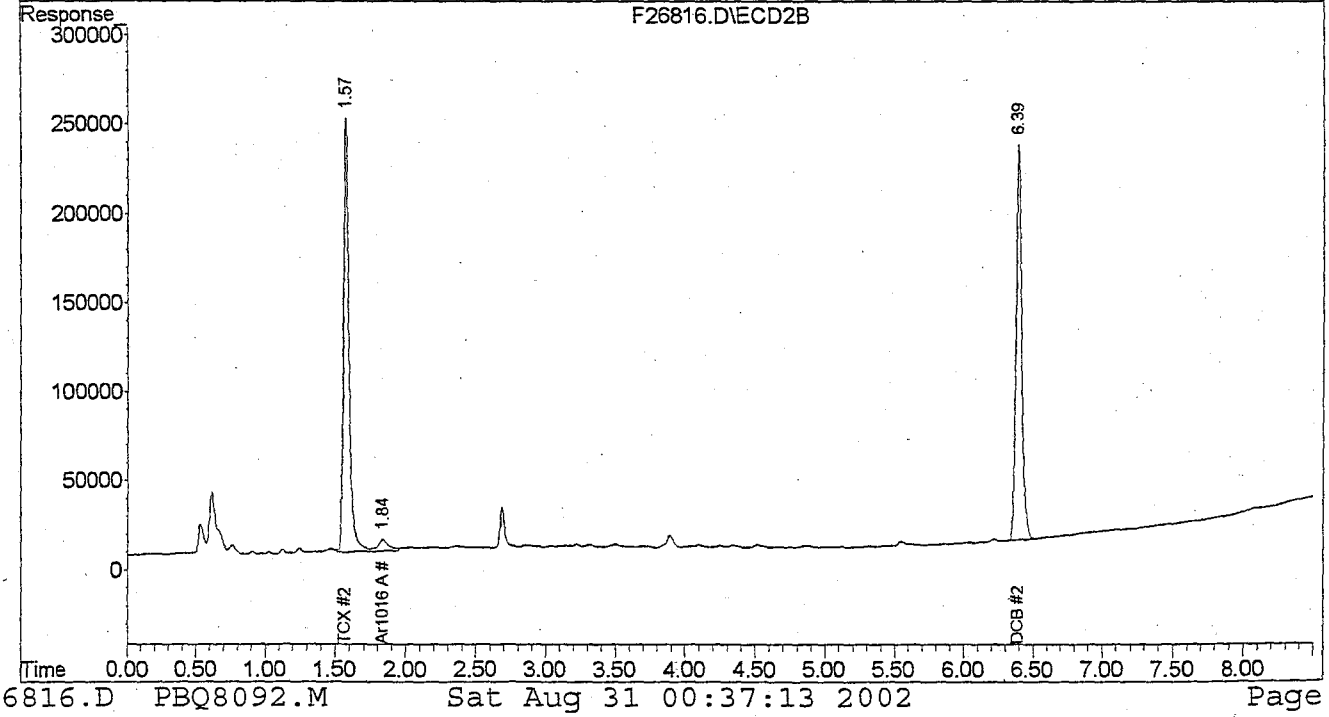
Quantitation Report (Not Reviewed)

Signal #1 : D:\HPCHEM\2\DATA\083002-F\F26816.D\ECD1A.CH Vial: 16
Signal #2 : D:\HPCHEM\2\DATA\083002-F\F26816.D\ECD2B.CH
Acq On : 30 Aug 2002 9:26 pm Operator:
Sample : 48177-11 Inst : Instrume
Misc : SOIL Multiplr: 1.00
IntFile Signal #1: PCBINT.E IntFile Signal #2: PCBINT2.E
Quant Time: Aug 31 0:37 2002 Quant Results File: PBQ8092.RES

Quant Method : D:\HPCHEM\2\METHODS\PBQ8092.M (Chemstation Integrator)
Title : Aroclor 1016/1260
Last Update : Fri Aug 30 16:51:30 2002
Response via : Multiple Level Calibration
DataAcq Meth : PCB.M

Volume Inj. : 3 ul
Signal #1 Phase : DB-1701 Widebore Signal #2 Phase: DB-5 Widebore
Signal #1 Info : 0.53 mm , 1.0um f Signal #2 Info : 0.53 mm, 1.5um fil





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September 3, 2002

SAMPLE DATA

Lab Sample ID:	48177-12
Matrix:	Solid
Percent Solid:	80
Dilution Factor:	1.2
Collection Date:	08/30/02
Lab Receipt Date:	08/30/02
Extraction Date:	08/30/02
Analysis Date:	08/30/02

CLIENT SAMPLE ID

Project Name:	PCB SOIL C/U; BLDG 335
Project Number:	CTO 33
Field Sample ID:	CS-2-7-BS-1

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/kg	Results µg/kg
PCB-1016	18	U
PCB-1221	18	U
PCB-1232	18	U
PCB-1242	18	U
PCB-1248	18	U
PCB-1254	18	**13 J**
PCB-1260	18	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	89	%
Decachlorobiphenyl	82	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3545.

COMMENTS: Results are expressed on a dry weight basis.

PCB Report

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PCB CONFIRMATION RESULTS

Quote#: SDG: 48177

Project No: CTO 33 Site ID: PCB Soil C/U Bldg 335 Location: Topsham, ME

Instrument ID: F GC Columns: RTX-CLPesticidesI ID: 0.53(mm)

RTX-CLPesticidesII

Sample ID: 48177-12

COMPOUND	RESPONSE #1 (ug/kg)	RESPONSE #2 (ug/kg)	DIFFERENCE %	#	% DIFFERENCE Acceptance Limit
PCB 1254	13 J	13 J	0		40

Column to be used to flag % Difference with an asterisk

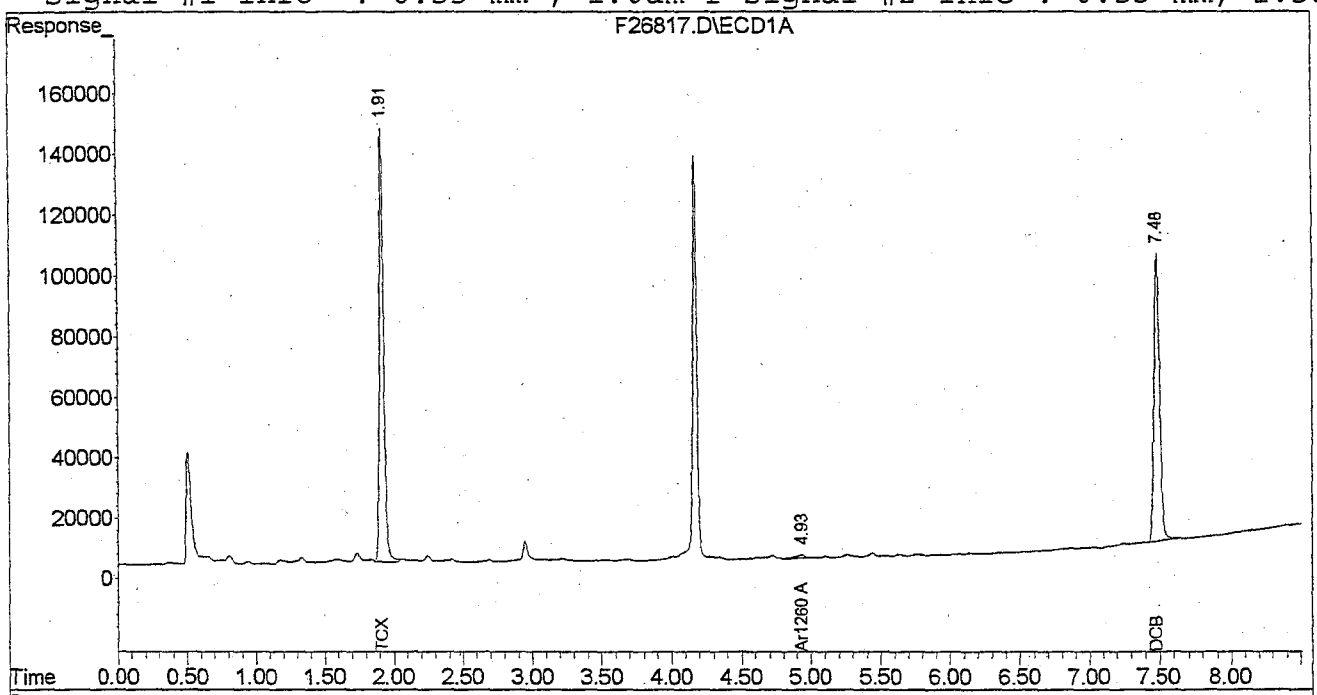
* Values outside of QC limits

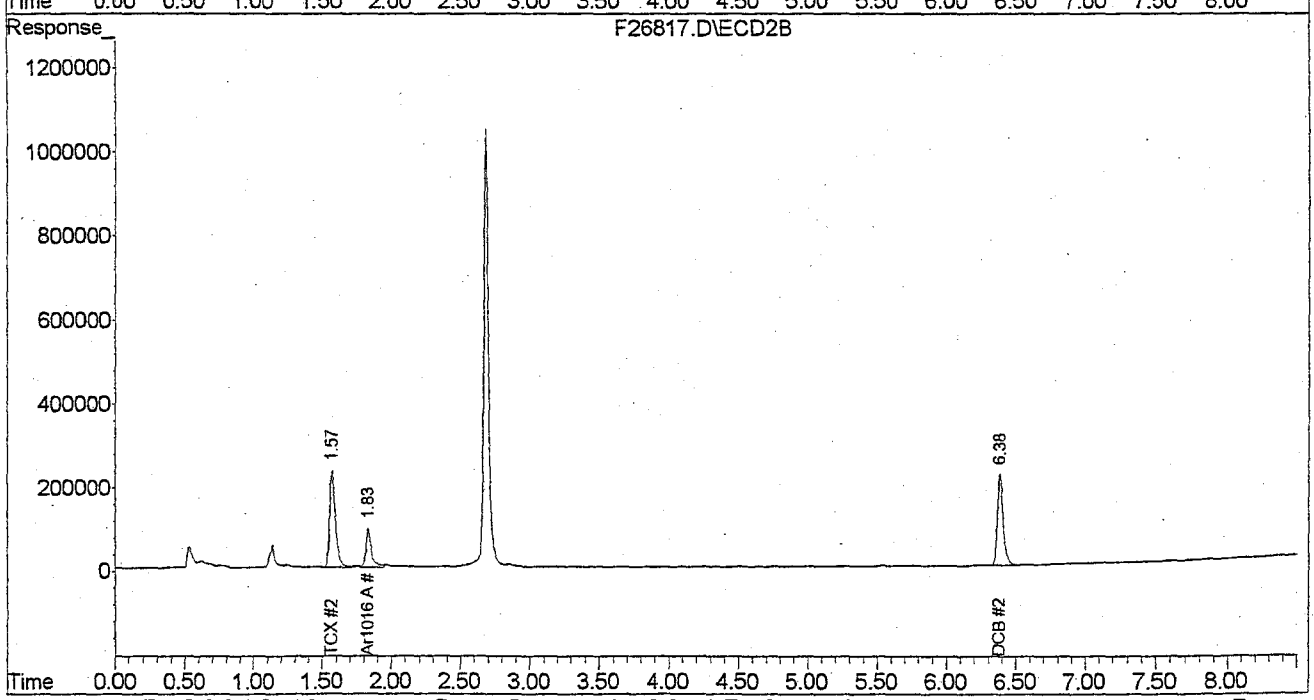
Quantitation Report (Not Reviewed)

Signal #1 : D:\HPCHEM\2\DATA\083002-F\F26817.D\ECD1A.CH Vial: 17
Signal #2 : D:\HPCHEM\2\DATA\083002-F\F26817.D\ECD2B.CH
Acq On : 30 Aug 2002 9:38 pm Operator:
Sample : 48177-12 Inst : Instrume
Misc : SOIL Multiplr: 1.00
IntFile Signal #1: PCBINT.E IntFile Signal #2: PCBINT2.E
Quant Time: Aug 31 0:37 2002 Quant Results File: PBQ8092.RES

Quant Method : D:\HPCHEM\2\METHODS\PBQ8092.M (Chemstation Integrator)
Title : Aroclor 1016/1260
Last Update : Fri Aug 30 16:51:30 2002
Response via : Multiple Level Calibration
DataAcq Meth : PCB.M

Volume Inj. : 3 ul
Signal #1 Phase : DB-1701 Widebore Signal #2 Phase: DB-5 Widebore
Signal #1 Info : 0.53 mm , 1.0um f Signal #2 Info : 0.53 mm, 1.5um fil





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September 3, 2002

SAMPLE DATA

Lab Sample ID:	48177-13
Matrix:	Solid
Percent Solid:	85
Dilution Factor:	1.1
Collection Date:	08/30/02
Lab Receipt Date:	08/30/02
Extraction Date:	08/30/02
Analysis Date:	08/30/02

CLIENT SAMPLE ID

Project Name:	PCB SOIL C/U; BLDG 335
Project Number:	CTO 33
Field Sample ID:	CS-2-7-BS-2

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/kg	Results µg/kg
PCB-1016	17	U
PCB-1221	17	U
PCB-1232	17	U
PCB-1242	17	U
PCB-1248	17	U
PCB-1254	17	**693**
PCB-1260	17	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	86	%
Decachlorobiphenyl	81	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3545.

COMMENTS: Results are expressed on a dry weight basis.

PCB Report

Authorized signature

analytics environmental laboratory LLC

PCB CONFIRMATION RESULTS

Quote#: SDG: 48177

Project No: CTO 33 Site ID: PCB Soil C/U Bldg 335 Location: Topsham, ME

Instrument ID: F GC Columns: RTX-CLPesticidesI ID: 0.53(mm)

RTX-CLPesticidesII

Sample ID: 48177-13

COMPOUND	RESPONSE #1 (ug/kg)	RESPONSE #2 (ug/kg)	DIFFERENCE %	#	% DIFFERENCE Acceptance Limit
PCB 1254	651	693	6		40

Column to be used to flag % Difference with an asterisk

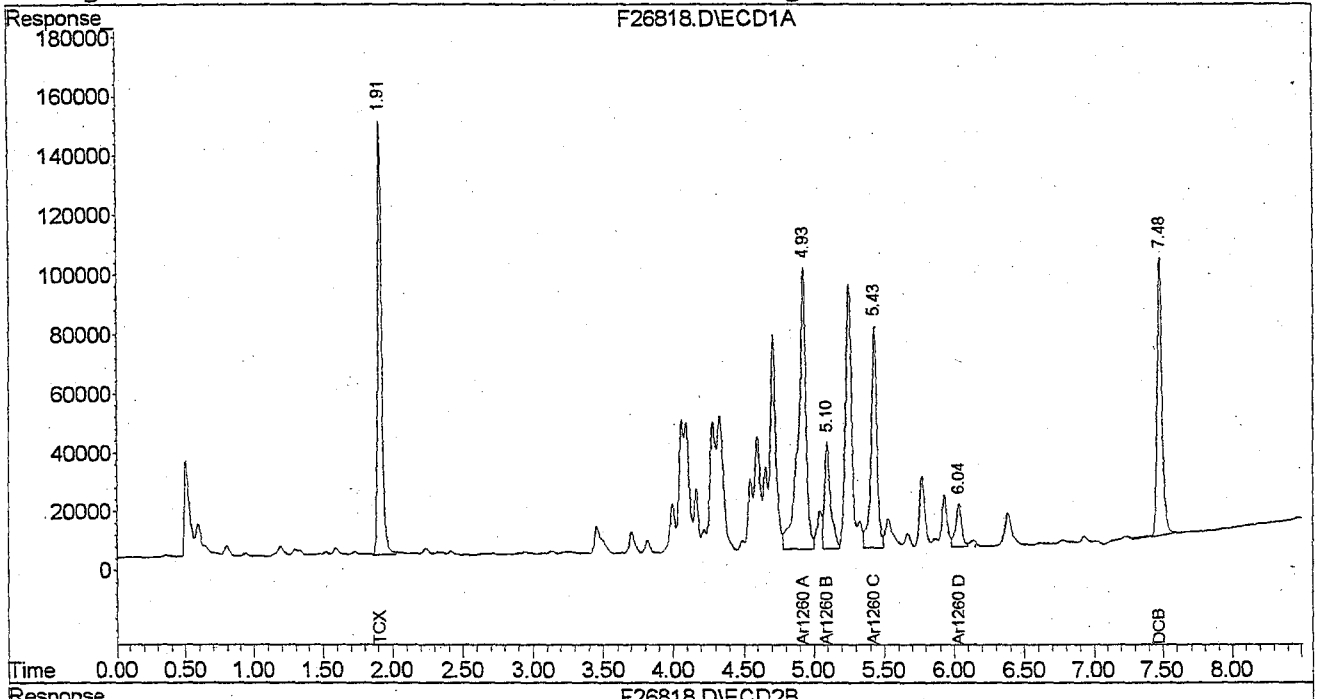
* Values outside of QC limits

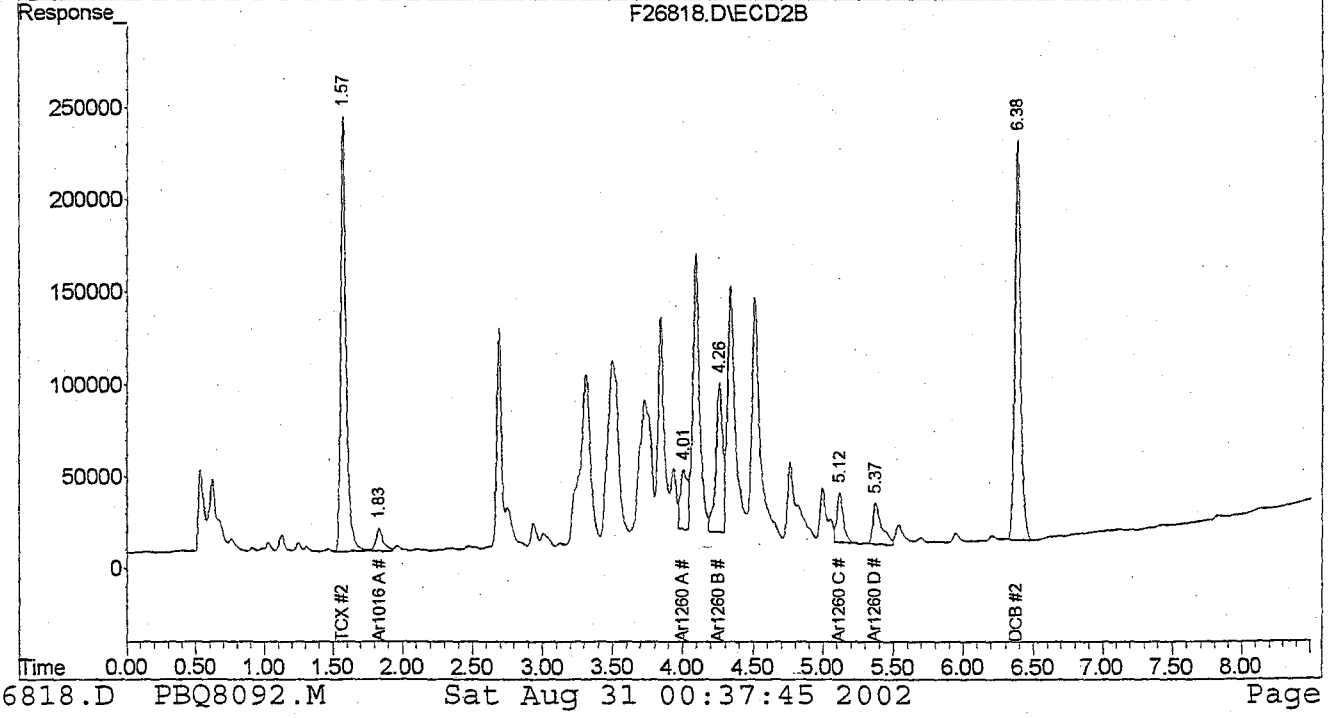
Quantitation Report (Not Reviewed)

Signal #1 : D:\HPCHEM\2\DATA\083002-F\F26818.D\ECD1A.CH Vial: 18
Signal #2 : D:\HPCHEM\2\DATA\083002-F\F26818.D\ECD2B.CH
Acq On : 30 Aug 2002 9:49 pm Operator:
Sample : 48177-13 Inst : Instrume
Misc : SOIL Multiplr: 1.00
IntFile Signal #1: PCBINT.E IntFile Signal #2: PCBINT2.E
Quant Time: Aug 31 0:37 2002 Quant Results File: PBQ8092.RES

Quant Method : D:\HPCHEM\2\METHODS\PBQ8092.M (Chemstation Integrator)
Title : Aroclor 1016/1260
Last Update : Fri Aug 30 16:51:30 2002
Response via : Multiple Level Calibration
DataAcq Meth : PCB.M

Volume Inj. : 3 ul
Signal #1 Phase : DB-1701 Widebore Signal #2 Phase: DB-5 Widebore
Signal #1 Info : 0.53 mm , 1.0um f Signal #2 Info : 0.53 mm, 1.5um fil





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September 3, 2002

SAMPLE DATA

Lab Sample ID:	48177-14
Matrix:	Solid
Percent Solid:	85
Dilution Factor:	22
Collection Date:	08/30/02
Lab Receipt Date:	08/30/02
Extraction Date:	08/30/02
Analysis Date:	08/31/02

CLIENT SAMPLE ID

Project Name:	PCB SOIL C/U; BLDG 335
Project Number:	CTO 33
Field Sample ID:	CS-3-7-BS-1

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/kg	Results µg/kg
PCB-1016	330	U
PCB-1221	330	U
PCB-1232	330	U
PCB-1242	330	U
PCB-1248	330	U
PCB-1254	330	**9580**
PCB-1260	330	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	*	%
Decachlorobiphenyl	*	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3545.

COMMENTS: Results are expressed on a dry weight basis. * The surrogates were diluted out.

PCB Report

Authorized signature

analytics environmental laboratory LLC

PCB CONFIRMATION RESULTS

Quote#: SDG: 48177

Project No: CTO 33 Site ID: PCB Soil C/U Bldg 335 Location: Topsham, ME

Instrument ID: F GC Columns: RTX-CLPesticidesI ID: 0.53(mm)

RTX-CLPesticidesII

Sample ID: 48177-14

COMPOUND	RESPONSE #1 (ug/kg)	RESPONSE #2 (ug/kg)	DIFFERENCE %	#	% DIFFERENCE Acceptance Limit
PCB 1254	8720	9580	9		40

Column to be used to flag % Difference with an asterisk

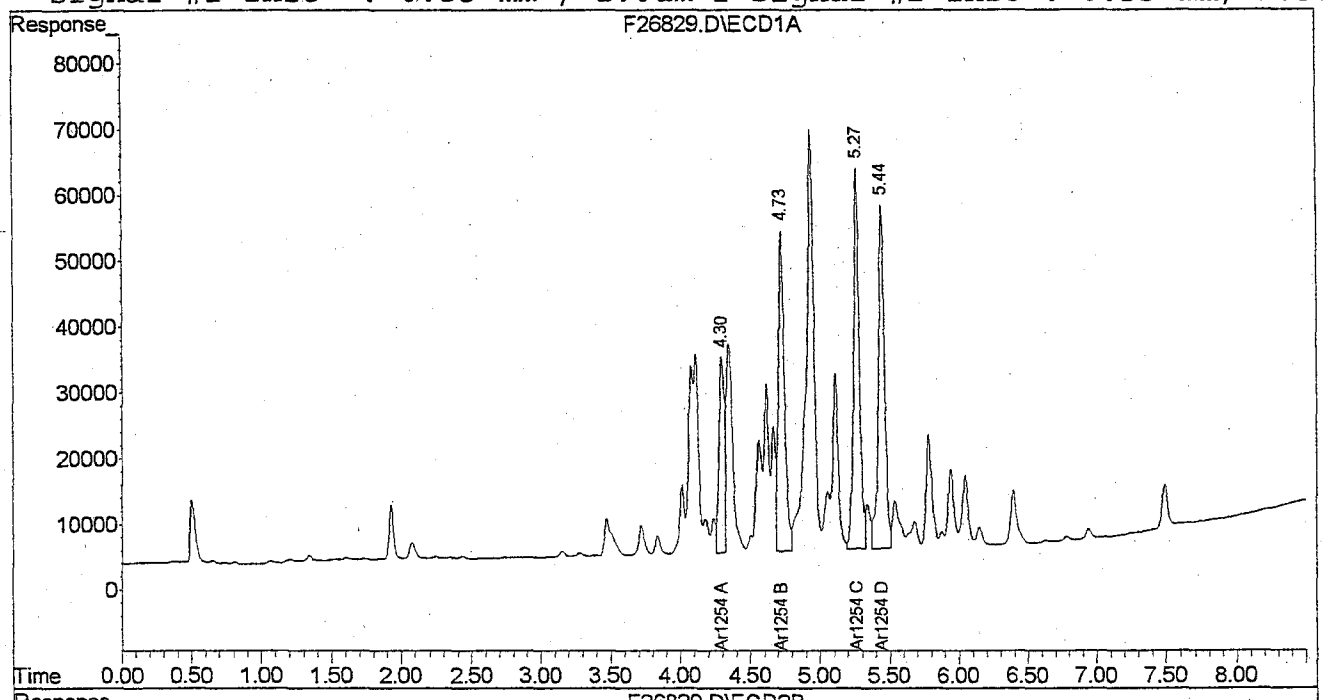
* Values outside of QC limits

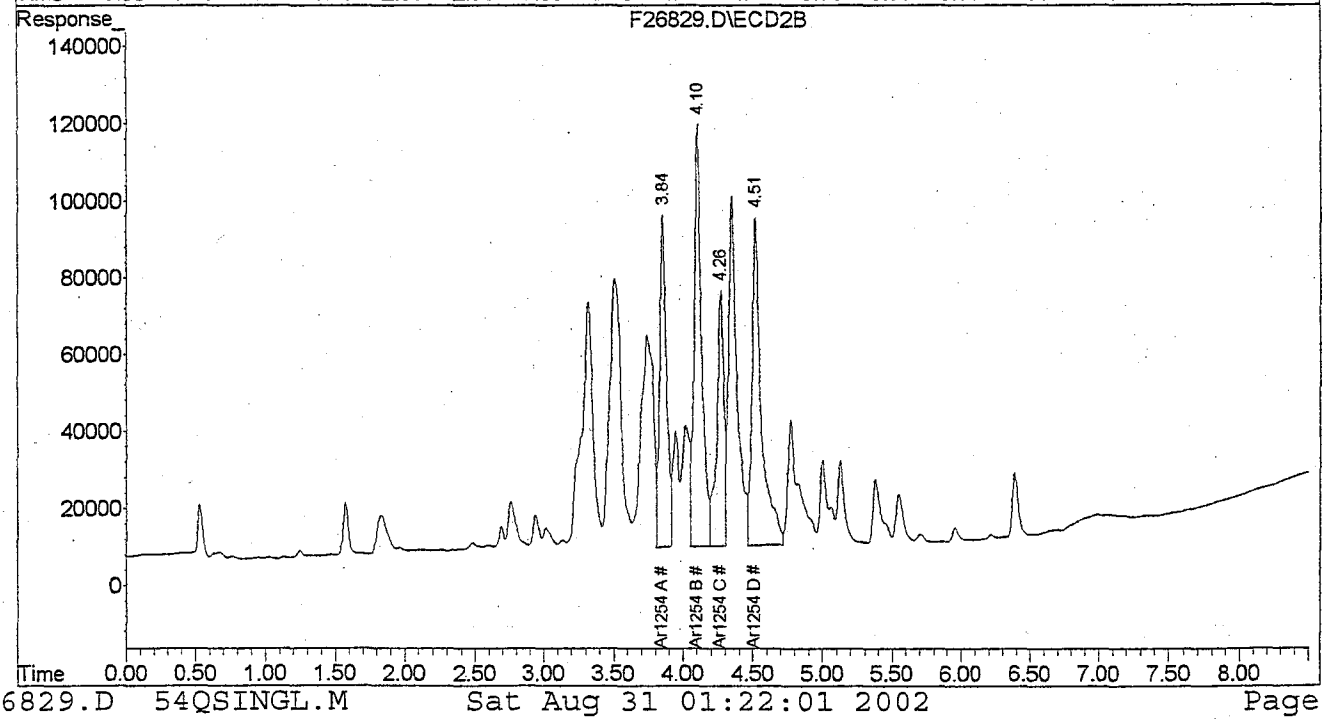
Quantitation Report (Not Reviewed)

Signal #1 : D:\HPCHEM\2\DATA\083002-F\F26829.D\ECD1A.CH Vial: 28
Signal #2 : D:\HPCHEM\2\DATA\083002-F\F26829.D\ECD2B.CH
Acq On : 31 Aug 2002 1:12 am Operator:
Sample : 48177-14 1:20 Inst : Instrume
Misc : SOIL Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Aug 31 1:21 2002 Quant Results File: 54QSINGL.RES

Quant Method : D:\HPCHEM\2\METHODS\54QSINGL.M (Chemstation Integrator)
Title : Aroclor 1254
Last Update : Fri Aug 30 13:23:39 2002
Response via : Single Level Calibration
DataAcq Meth : PCB.M

Volume Inj. : 3 ul
Signal #1 Phase : DB-1701 Widebore Signal #2 Phase: DB-5 Widebore
Signal #1 Info : 0.53 mm , 1.0um f Signal #2 Info : 0.53 mm, 1.5um fil





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Mr. Dan Sullivan
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September 3, 2002

SAMPLE DATA

Lab Sample ID:	48177-15
Matrix:	Solid
Percent Solid:	86
Dilution Factor:	1.1
Collection Date:	08/30/02
Lab Receipt Date:	08/30/02
Extraction Date:	08/30/02
Analysis Date:	08/30/02

CLIENT SAMPLE ID

Project Name:	PCB SOIL C/U; BLDG 335
Project Number:	CTO 33
Field Sample ID:	CS-2-7-WSW-2

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/kg	Results µg/kg
PCB-1016	17	U
PCB-1221	17	U
PCB-1232	17	U
PCB-1242	17	U
PCB-1248	17	U
PCB-1254	17	**252**
PCB-1260	17	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	84	%
Decachlorobiphenyl	85	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3545.

COMMENTS: Results are expressed on a dry weight basis.

PCB Report

Authorized signature

analytics environmental laboratory LLC

PCB CONFIRMATION RESULTS

Quote#:

SDG: 48177

Project No: CTO 33

Site ID: PCB Soil C/U Bldg 335

Location: Topsham, ME

Instrument ID: F

GC Columns: RTX-CLPesticidesI
RTX-CLPesticidesII

ID: 0.53(mm)

Sample ID: 48177-15

COMPOUND	RESPONSE #1 (ug/kg)	RESPONSE #2 (ug/kg)	DIFFERENCE %	#	% DIFFERENCE Acceptance Limit
PCB 1254	253	252	0		40

Column to be used to flag % Difference with an asterisk

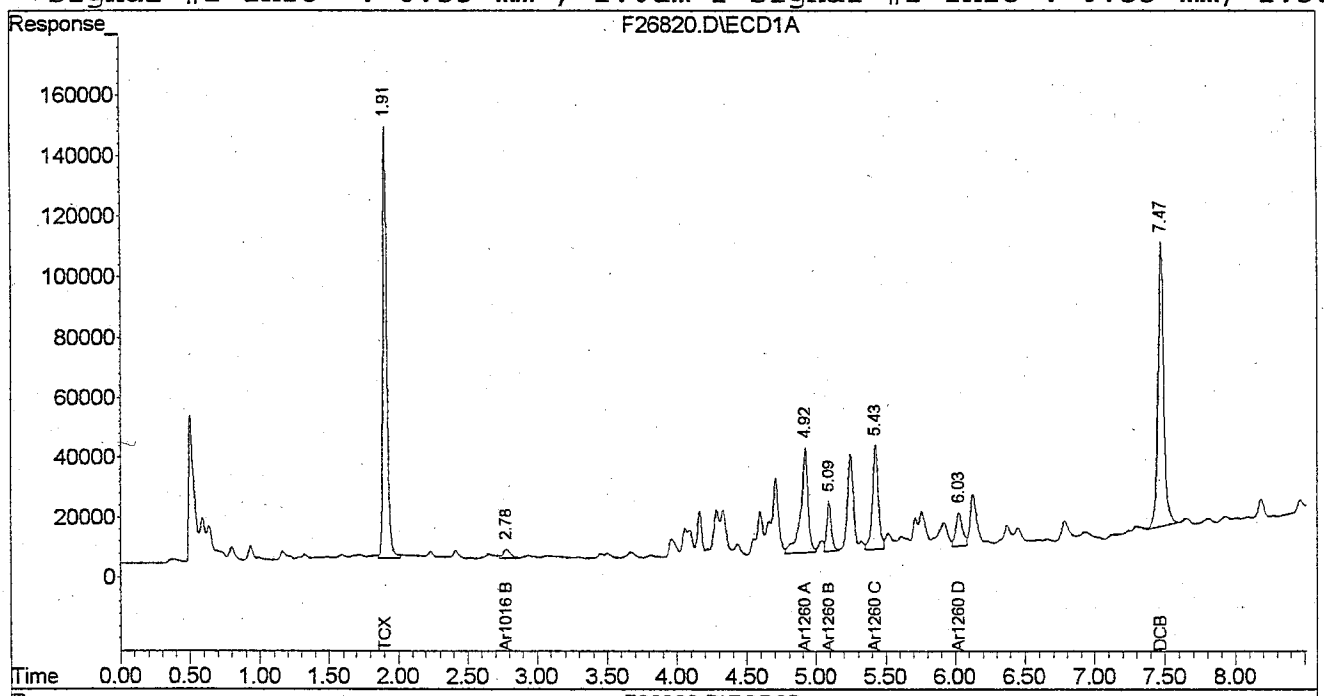
* Values outside of QC limits

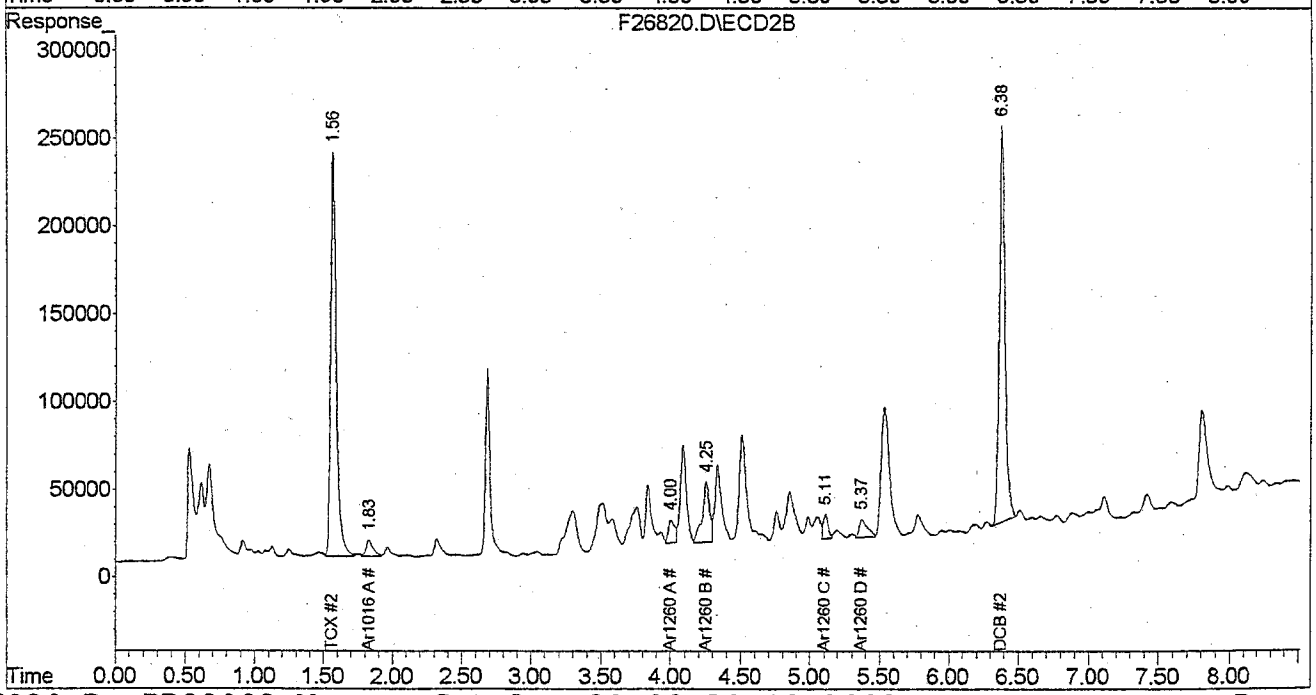
Quantitation Report (Not Reviewed)

Signal #1 : D:\HPCHEM\2\DATA\083002-F\F26820.D\ECD1A.CH Vial: 20
Signal #2 : D:\HPCHEM\2\DATA\083002-F\F26820.D\ECD2B.CH
Acq On : 30 Aug 2002 10:13 pm Operator:
Sample : 48177-15 Inst : Instrume
Misc : SOIL Multiplr: 1.00
IntFile Signal #1: PCBINT.E IntFile Signal #2: PCBINT2.E
Quant Time: Aug 31 0:38 2002 Quant Results File: PBQ8092.RES

Quant Method : D:\HPCHEM\2\METHODS\PBQ8092.M (Chemstation Integrator)
Title : Aroclor 1016/1260
Last Update : Fri Aug 30 16:51:30 2002
Response via : Multiple Level Calibration
DataAcq Meth : PCB.M

Volume Inj. : 3 ul
Signal #1 Phase : DB-1701 Widebore Signal #2 Phase: DB-5 Widebore
Signal #1 Info : 0.53 mm , 1.0um f Signal #2 Info : 0.53 mm, 1.5um fil





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P.O. Box 660
Kittery ME 03904

September 3, 2002

SAMPLE DATA

Lab Sample ID:	48177-16
Matrix:	Solid
Percent Solid:	85
Dilution Factor:	1.2
Collection Date:	08/30/02
Lab Receipt Date:	08/30/02
Extraction Date:	08/30/02
Analysis Date:	08/30/02

CLIENT SAMPLE ID

Project Name:	PCB SOIL C/U; BLDG 335
Project Number:	CTO 33
Field Sample ID:	CS-2-7-WSW-1

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/kg	Results µg/kg
PCB-1016	18	U
PCB-1221	18	U
PCB-1232	18	U
PCB-1242	18	U
PCB-1248	18	U
PCB-1254	18	**185**
PCB-1260	18	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	87	%
Decachlorobiphenyl	85	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3545.

COMMENTS: Results are expressed on a dry weight basis.

PCB Report

Authorized signature

analytics environmental laboratory LLC

PCB CONFIRMATION RESULTS

Quote#: SDG: 48177

Project No: CTO 33 Site ID: PCB Soil C/U Bldg 335 Location: Topsham, ME

Instrument ID: F GC Columns: RTX-CLPesticidesI ID: 0.53(mm)

RTX-CLPesticidesII

Sample ID: 48177-16

COMPOUND	RESPONSE #1 (ug/kg)	RESPONSE #2 (ug/kg)	DIFFERENCE %	#	% DIFFERENCE Acceptance Limit
PCB 1254	195	185	5		40

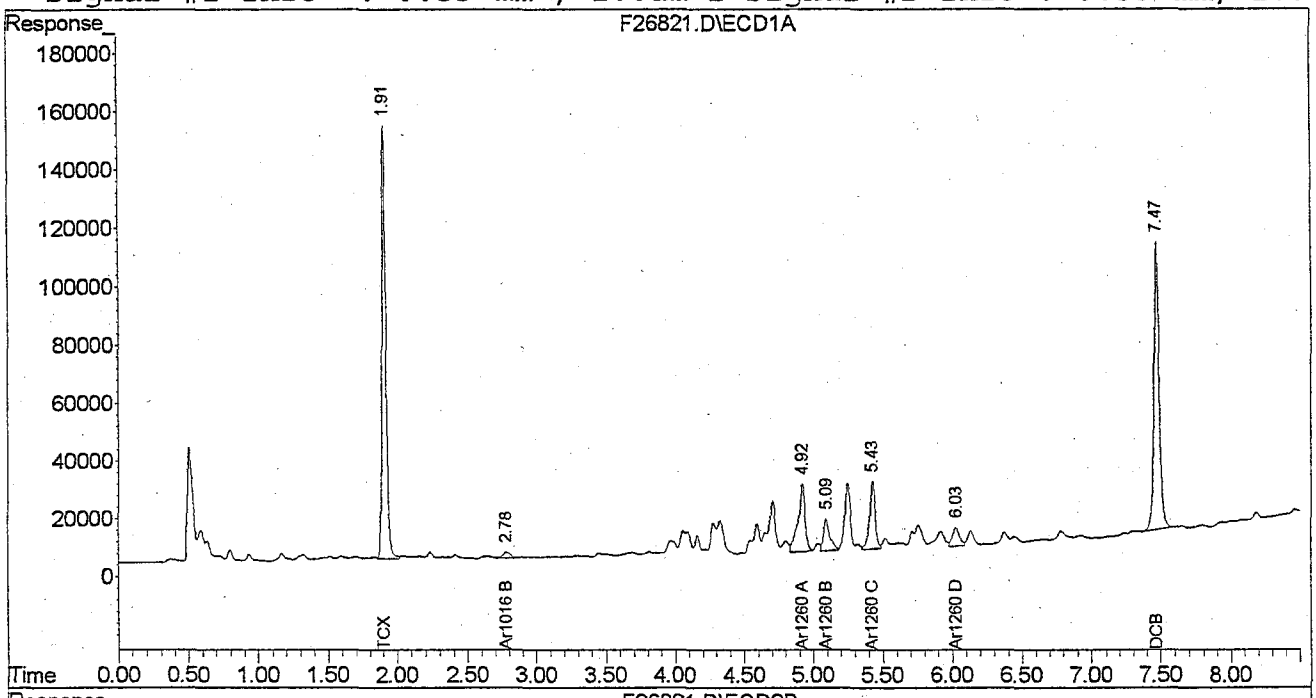
Column to be used to flag % Difference with an asterisk

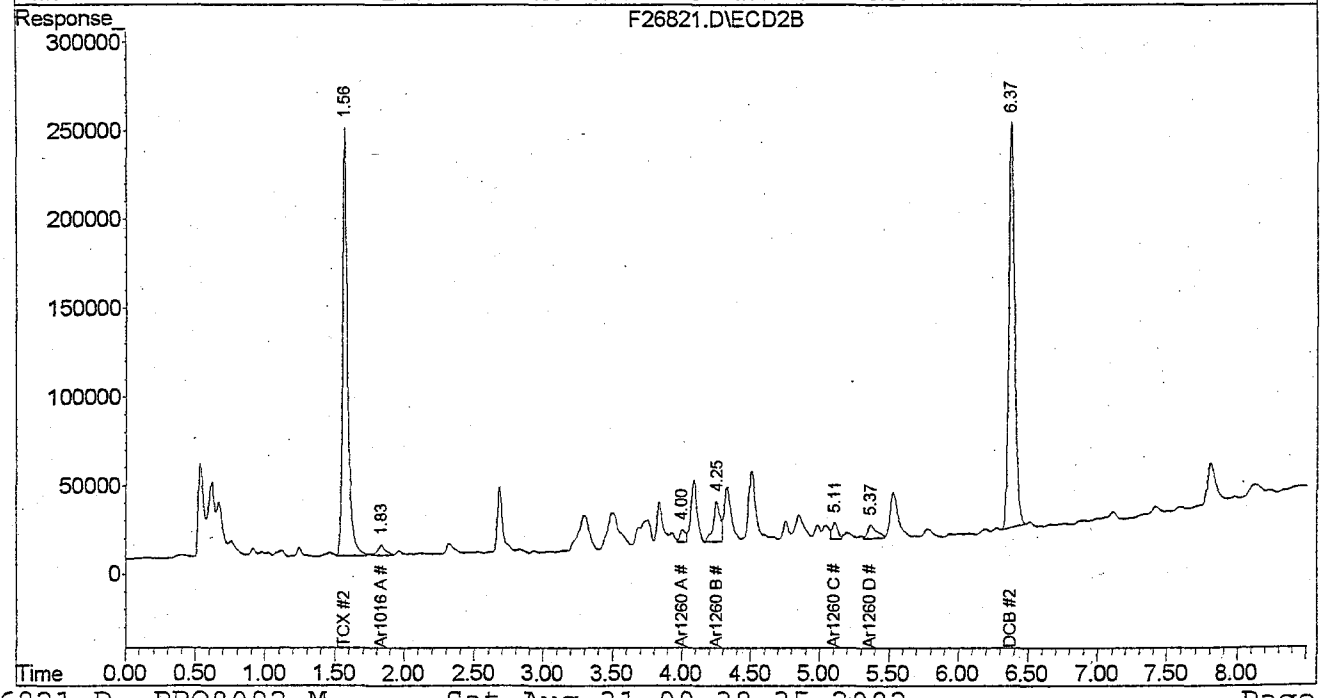
* Values outside of QC limits

Signal #1 : D:\HPCHEM\2\DATA\083002-F\F26821.D\ECD1A.CH Vial: 21
Signal #2 : D:\HPCHEM\2\DATA\083002-F\F26821.D\ECD2B.CH
Acq On : 30 Aug 2002 10:24 pm Operator:
Sample : 48177-16 Inst : Instrume
Misc : SOIL Multiplr: 1.00
IntFile Signal #1: PCBINT.E IntFile Signal #2: PCBINT2.E
Quant Time: Aug 31 0:38 2002 Quant Results File: PBQ8092.RES

Quant Method : D:\HPCHEM\2\METHODS\PBQ8092.M (Chemstation Integrator)
Title : Aroclor 1016/1260
Last Update : Fri Aug 30 16:51:30 2002
Response via : Multiple Level Calibration
DataAcq Meth : PCB.M

Volume Inj. : 3 ul
Signal #1 Phase : DB-1701 Widebore Signal #2 Phase: DB-5 Widebore
Signal #1 Info : 0.53 mm , 1.0um f Signal #2 Info : 0.53 mm, 1.5um fil





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September 3, 2002

SAMPLE DATA

CLIENT SAMPLE ID

Project Name: PCB SOIL C/U; BLDG 335

Project Number: CTO 33

Field Sample ID: CS-6-7-ESW-1

Lab Sample ID: 48177-17
Matrix: Solid
Percent Solid: 86
Dilution Factor: 1.1
Collection Date: 08/30/02
Lab Receipt Date: 08/30/02
Extraction Date: 08/30/02
Analysis Date: 08/30/02

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/kg	Results µg/kg
PCB-1016	17	U
PCB-1221	17	U
PCB-1232	17	U
PCB-1242	17	U
PCB-1248	17	U
PCB-1254	17	**193**
PCB-1260	17	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	89	%
Decachlorobiphenyl	90	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3545.

COMMENTS: Results are expressed on a dry weight basis.

PCB Report

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analytics environmental laboratory LLC

PCB CONFIRMATION RESULTS

Quote#: SDG: 48177

Project No: CTO 33 Site ID: PCB Soil C/U Bldg 335 Location: Topsham, ME

Instrument ID: F GC Columns: RTX-CLPesticidesI ID: 0.53(mm)

RTX-CLPesticidesII

Sample ID: 48177-17

COMPOUND	RESPONSE #1 (ug/kg)	RESPONSE #2 (ug/kg)	DIFFERENCE %	#	% DIFFERENCE Acceptance Limit
PCB 1254	201	193	4		40

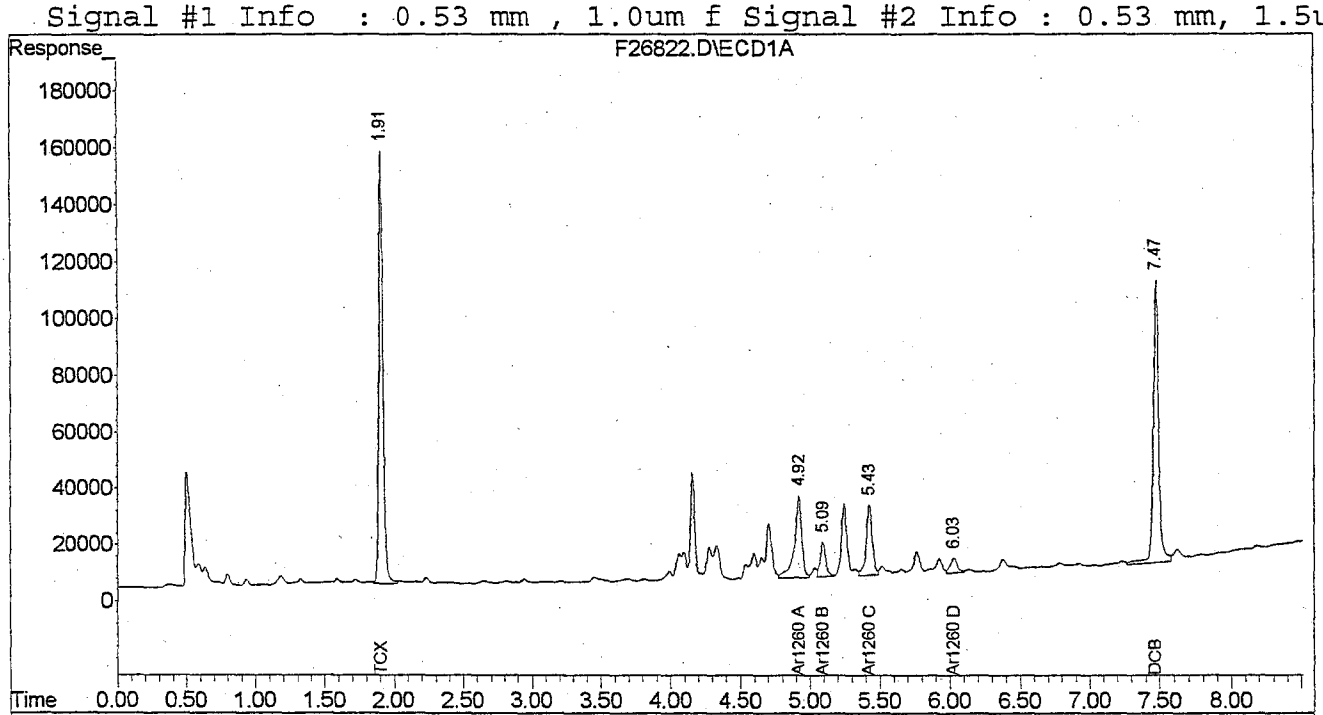
Column to be used to flag % Difference with an asterisk

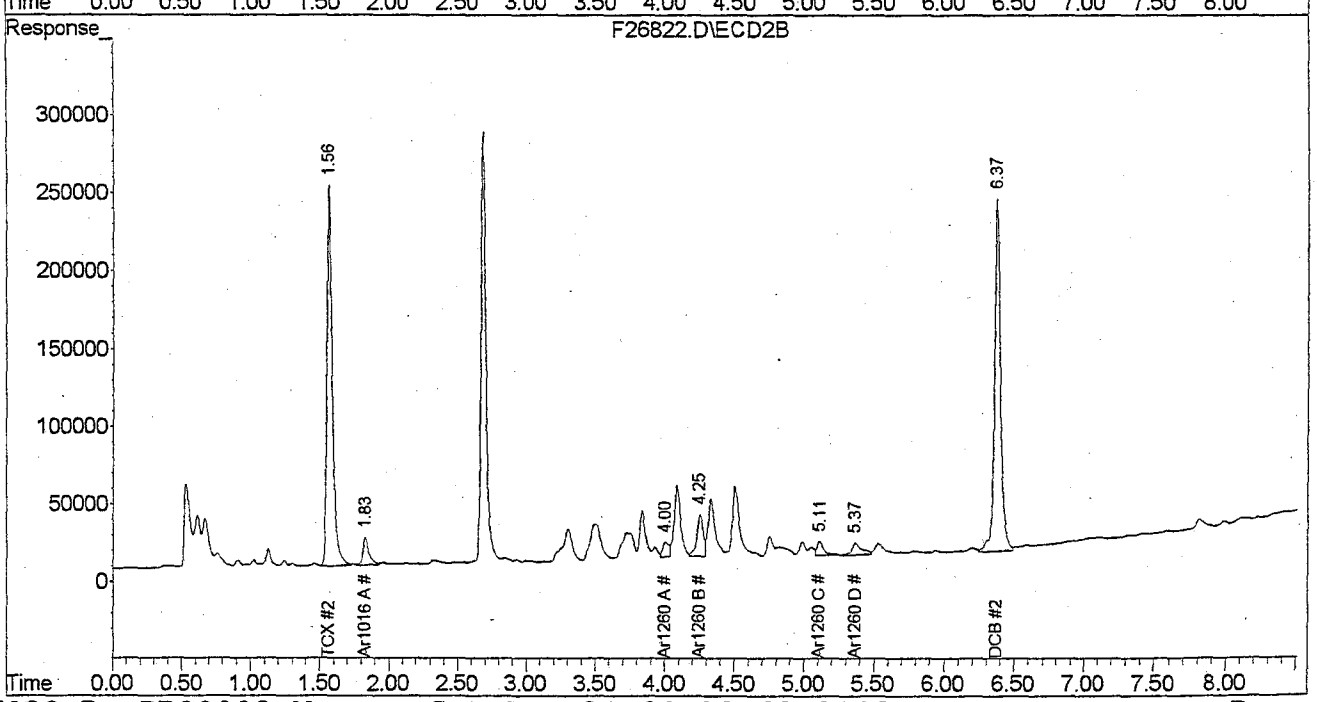
* Values outside of QC limits

Signal #1 : D:\HPCHEM\2\DATA\083002-F\F26822.D\ECD1A.CH Vial: 22
Signal #2 : D:\HPCHEM\2\DATA\083002-F\F26822.D\ECD2B.CH
Acq On : 30 Aug 2002 10:36 pm Operator:
Sample : 48177-17 Inst : Instrume
Misc : SOIL Multiplr: 1.00
IntFile Signal #1: PCBINT.E IntFile Signal #2: PCBINT2.E
Quant Time: Aug 31 0:38 2002 Quant Results File: PBQ8092.RES

Quant Method : D:\HPCHEM\2\METHODS\PBQ8092.M (Chemstation Integrator)
Title : Aroclor 1016/1260
Last Update : Fri Aug 30 16:51:30 2002
Response via : Multiple Level Calibration
DataAcq Meth : PCB.M

Volume Inj. : 3 ul
Signal #1 Phase : DB-1701 Widebore Signal #2 Phase: DB-5 Widebore
Signal #1 Info : 0.53 mm , 1.0um f Signal #2 Info : 0.53 mm, 1.5um fil





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September 3, 2002

SAMPLE DATA

Lab Sample ID:	48177-18
Matrix:	Solid
Percent Solid:	83
Dilution Factor:	1.2
Collection Date:	08/30/02
Lab Receipt Date:	08/30/02
Extraction Date:	08/30/02
Analysis Date:	08/30/02

CLIENT SAMPLE ID

Project Name:	PCB SOIL C/U; BLDG 335
Project Number:	CTO 33
Field Sample ID:	CS-6-7-ESW-2

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/kg	Results µg/kg
PCB-1016	18	U
PCB-1221	18	U
PCB-1232	18	U
PCB-1242	18	U
PCB-1248	18	U
PCB-1254	18	**191**
PCB-1260	18	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	84	%
Decachlorobiphenyl	80	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3545.

COMMENTS: Results are expressed on a dry weight basis.

PCB Report

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PCB CONFIRMATION RESULTS

Quote#: SDG: 48177

Project No: CTO 33 Site ID: PCB Soil C/U Bldg 335 Location: Topsham, ME

Instrument ID: F GC Columns: RTX-CLPesticidesI ID: 0.53(mm)

RTX-CLPesticidesII

Sample ID: 48177-18

COMPOUND	RESPONSE #1 (ug/kg)	RESPONSE #2 (ug/kg)	DIFFERENCE %	#	% DIFFERENCE Acceptance Limit
PCB 1254	191	191	0		40

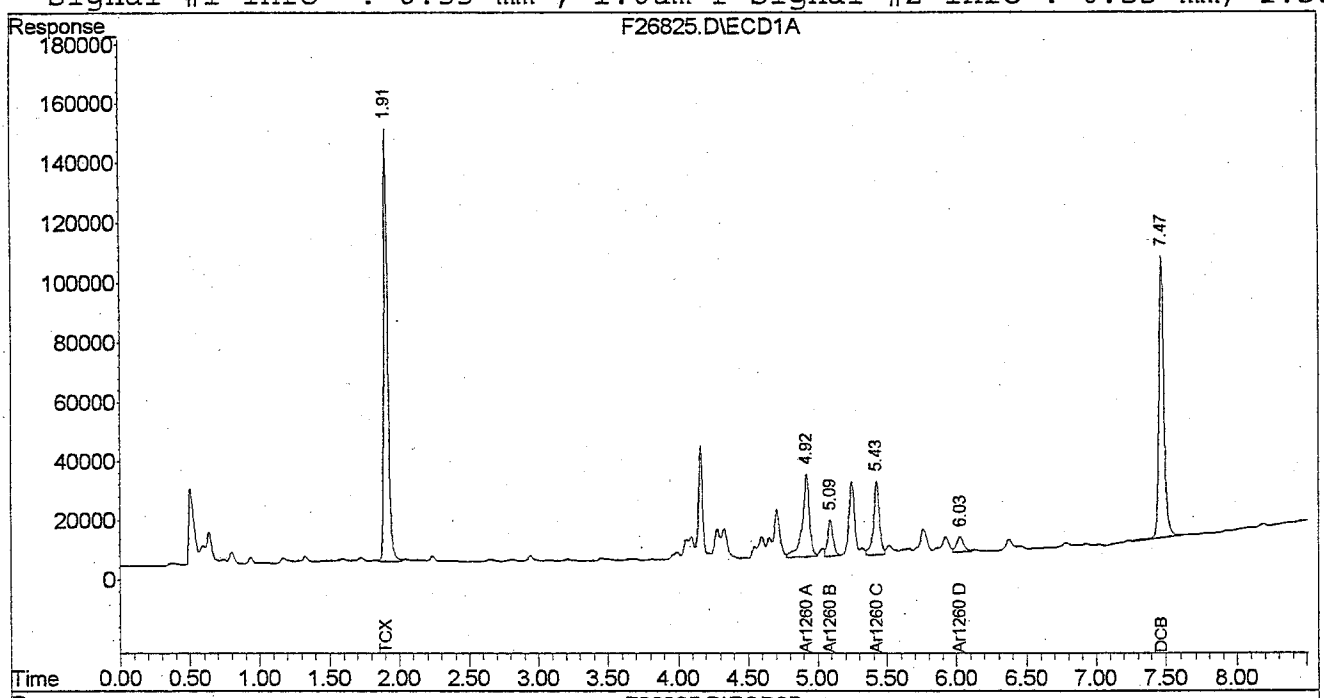
Column to be used to flag % Difference with an asterisk

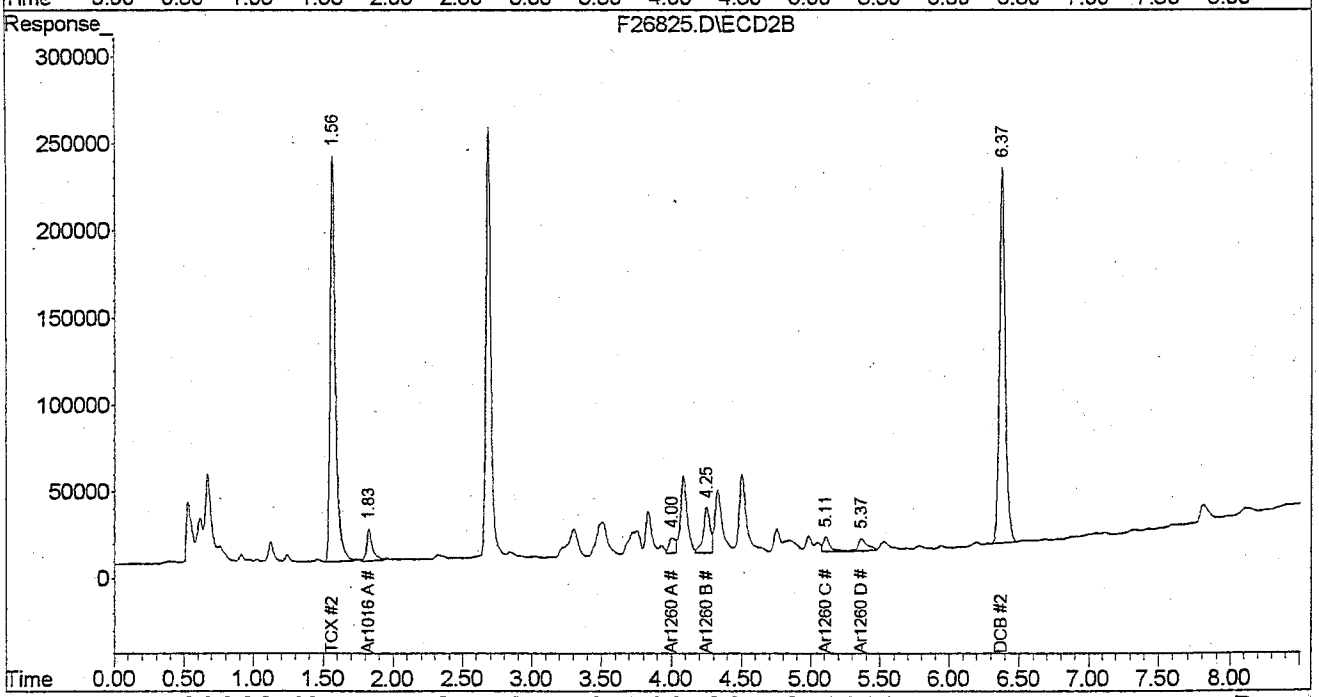
* Values outside of QC limits

Signal #1 : D:\HPCHEM\2\DATA\083002-F\F26825.D\ECD1A.CH Vial: 25
Signal #2 : D:\HPCHEM\2\DATA\083002-F\F26825.D\ECD2B.CH
Acq On : 30 Aug 2002 11:10 pm Operator:
Sample : 48177-18 Inst : Instrume
Misc : SOIL Multiplr: 1.00
IntFile Signal #1: PCBINT.E IntFile Signal #2: PCBINT2.E
Quant Time: Aug 31 0:39 2002 Quant Results File: PBQ8092.RES

Quant Method : D:\HPCHEM\2\METHODS\PBQ8092.M (Chemstation Integrator)
Title : Aroclor 1016/1260
Last Update : Fri Aug 30 16:51:30 2002
Response via : Multiple Level Calibration
DataAcq Meth : PCB.M

Volume Inj. : 3 ul
Signal #1 Phase : DB-1701 Widebore Signal #2 Phase: DB-5 Widebore
Signal #1 Info : 0.53 mm , 1.0um f Signal #2 Info : 0.53 mm, 1.5um fil





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September 3, 2002

SAMPLE DATA

CLIENT SAMPLE ID

Project Name: PCB SOIL C/U; BLDG 335

Project Number: CTO 33

Field Sample ID: CS-9-7-ESW-2

Lab Sample ID: 48177-19
Matrix: Solid
Percent Solid: 90
Dilution Factor: 1.1
Collection Date: 08/30/02
Lab Receipt Date: 08/30/02
Extraction Date: 08/30/02
Analysis Date: 08/30/02

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/kg	Results µg/kg
PCB-1016	17	U
PCB-1221	17	U
PCB-1232	17	U
PCB-1242	17	U
PCB-1248	17	U
PCB-1254	17	**18**
PCB-1260	17	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	89	%
Decachlorobiphenyl	84	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3545.

COMMENTS: Results are expressed on a dry weight basis.

PCB Report

Authorized signature

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PCB CONFIRMATION RESULTS

Quote#: SDG: 48177

Project No: CTO 33 Site ID: PCB Soil C/U Bldg 335 Location: Topsham, ME

Instrument ID: F GC Columns: RTX-CLPesticidesI ID: 0.53(mm)

RTX-CLPesticidesII

Sample ID: 48177-19

COMPOUND	RESPONSE #1 (ug/kg)	RESPONSE #2 (ug/kg)	DIFFERENCE %	#	% DIFFERENCE Acceptance Limit
PCB 1254	22	18	20		40

Column to be used to flag % Difference with an asterisk

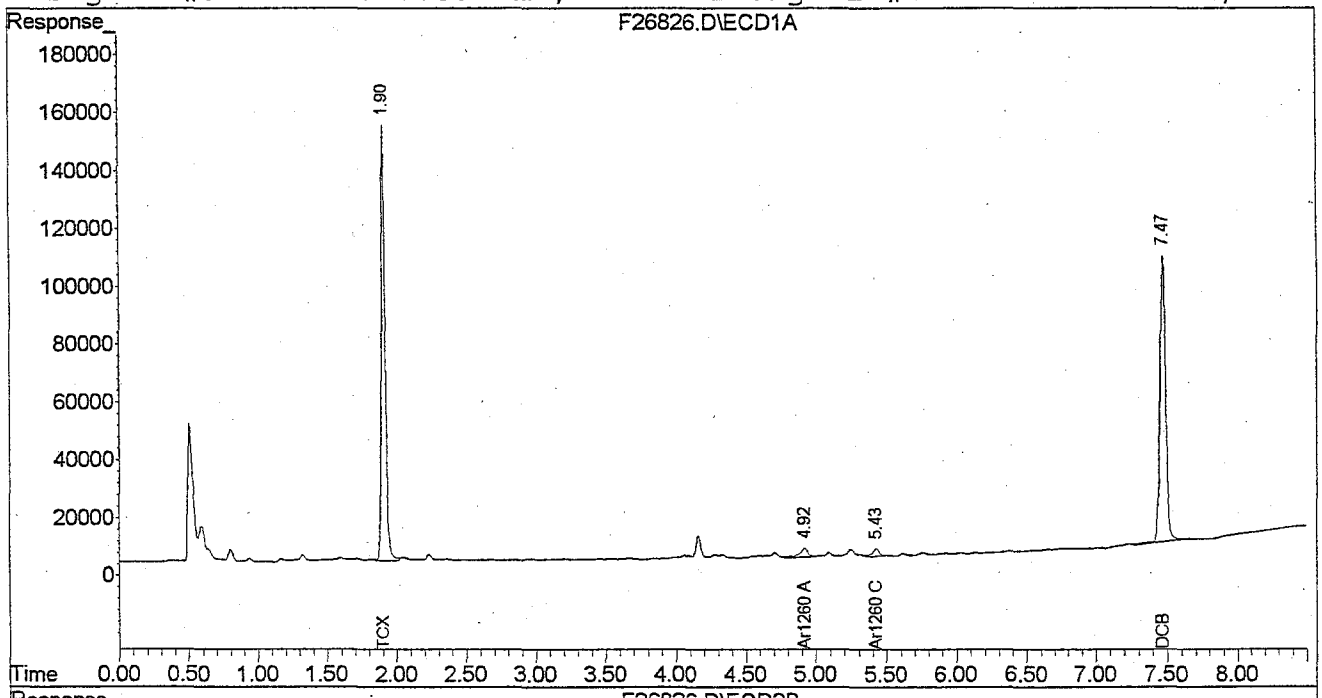
* Values outside of QC limits

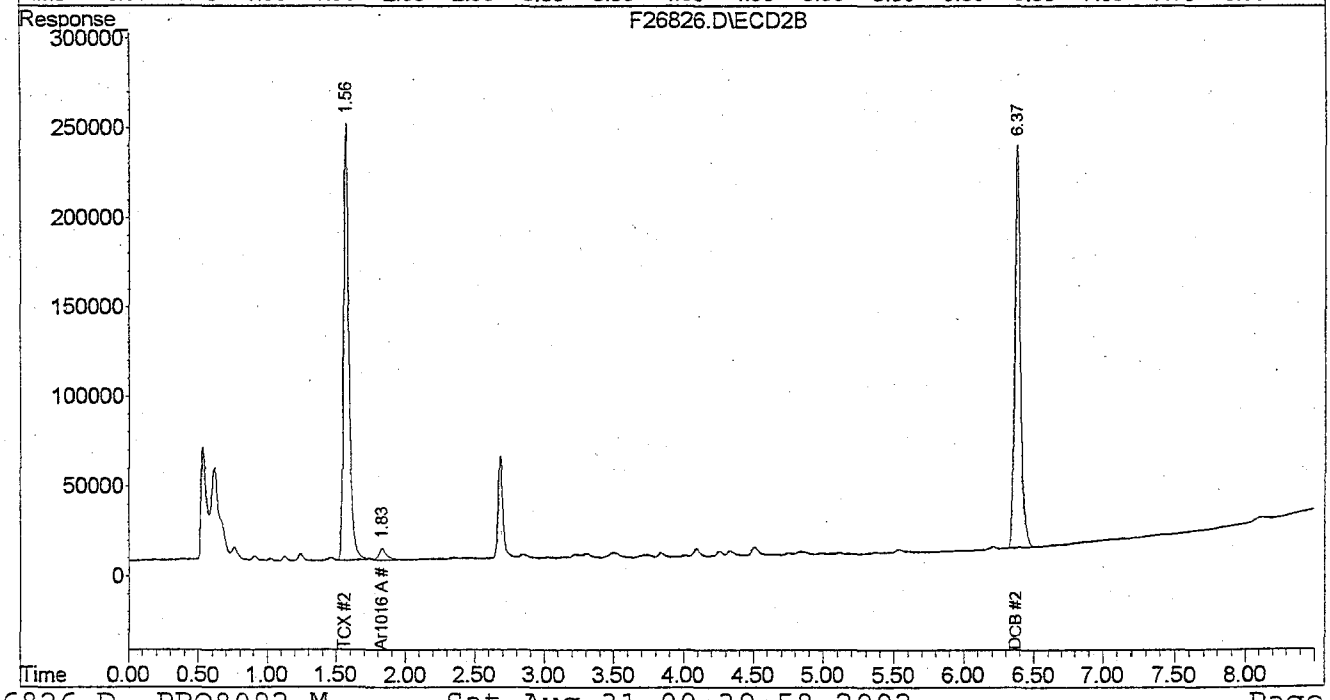
Quantitation Report (Not Reviewed)

Signal #1 : D:\HPCHEM\2\DATA\083002-F\F26826.D\ECD1A.CH Vial: 26
Signal #2 : D:\HPCHEM\2\DATA\083002-F\F26826.D\ECD2B.CH
Acq On : 30 Aug 2002 11:21 pm Operator:
Sample : 48177-19 Inst : Instrume
Misc : SOIL Multiplr: 1.00
IntFile Signal #1: PCBINT.E IntFile Signal #2: PCBINT2.E
Quant Time: Aug 31 0:39 2002 Quant Results File: PBQ8092.RES

Quant Method : D:\HPCHEM\2\METHODS\PBQ8092.M (Chemstation Integrator)
Title : Aroclor 1016/1260
Last Update : Fri Aug 30 16:51:30 2002
Response via : Multiple Level Calibration
DataAcq Meth : PCB.M

Volume Inj. : 3 ul
Signal #1 Phase : DB-1701 Widebore Signal #2 Phase: DB-5 Widebore
Signal #1 Info : 0.53 mm , 1.0um f Signal #2 Info : 0.53 mm, 1.5um fil





analytics environmental laboratory LLC

PCB SOLID
SYSTEM MONITORING COMPOUND RECOVERY

Project #: CTO 33 Quote #: SDG#: 48177

Site ID: PCB Soil C/U Bldg 335 Location: Topsham, ME

Instrument ID: F

GC Column: RTX-CLPesticides I ID: 0.53(mm)
RTX-CLPesticides II

	SAMPLE ID	COLUMN #1 SMC1	#	COLUMN #1 SMC2	#	COLUMN #2 SMC1	#	COLUMN #2 SMC2	#	TOT OUT	#
01	ZZZZZ	NA		NA		NA		NA		0	
02	P2692 16/60 0.02	NA		NA		NA		NA		0	
03	P2693 16/60 0.05	NA		NA		NA		NA		0	
04	P2694 16/60 0.1	NA		NA		NA		NA		0	
05	P2695 16/60 0.5	111		109		122		131		0	
06	P2696 16/60 1.0	NA		NA		NA		NA		0	
07	ZZZZZ	NA		NA		NA		NA		0	
08	P2677 1221 1.0	NA		NA		NA		NA		0	
09	P2678 1232 1.0	NA		NA		NA		NA		0	
10	P2679 1242 1.0	NA		NA		NA		NA		0	
11	P2682 1248 1.0	NA		NA		NA		NA		0	
12	P2680 1254 1.0	NA		NA		NA		NA		0	
13	ZZZZZ	102		105		112		100		0	
14	ZZZZZ	NA		NA		NA		NA		0	
15	ZZZZZ	98		109		90		99		0	
16	ZZZZZ	98		108		94		98		0	
17	ZZZZZ	91		99		86		91		0	
18	ZZZZZ	82		86		80		83		0	
19	ZZZZZ	85		100		84		95		0	
20	ZZZZZ	85		100		97		96		0	
21	ZZZZZ	85		90		83		89		0	
22	ZZZZZ	72		84		71		82		0	
23	ZZZZZ	79		94		76		90		0	
24	ZZZZZ	80		81		65		68		0	
25	ZZZZZ	73		85		67		77		0	
26	ZZZZZ	80		92		77		89		0	
27	ZZZZZ	81		95		77		86		0	
28	ZZZZZ	75		89		72		80		0	
29	ZZZZZ	80		89		76		83		0	
30	ZZZZZ	86		97		81		94		0	
31	P2695 16/60 0.5	107		108		105		107		0	
32											
33											
34											
35											

SMC1 = TCX 49-134
SMC2 = DCB 69-155

Column to be used to flag recovery values
* Values outside of protocol required QC limits
D System Monitoring Compound diluted out

analytics environmental laboratory LLC

PCB SOLID
SYSTEM MONITORING COMPOUND RECOVERY

Project #: CTO 33 Quote #: SDG#: 48177

Site ID: PCB Soil C/U Bldg 335 Location: Topsham, ME

Instrument ID: F

GC Column: RTX-CLPesticides I ID: 0.53(mm)
RTX-CLPesticides II

		COLUMN #1				COLUMN #2				TOT	
	SAMPLE ID	SMC1	#	SMC2	#	SMC1	#	SMC2	#	OUT	#
01	P2695 16/60 0.5	109		102		101		97		0	
02	ZZZZZ	NA		NA		NA		NA		0	
03	B08302PAS	106		104		99		98		0	
04	L08302PASB	103		106		96		97		0	
05	LD08302PASB	104		118		97		97		0	
06	48177-1	103		119		98		96		0	
07	48177-2	96		115		89		104		0	
08	48177-3	91		123		86		107		0	
09	48177-4	92		116		86		98		0	
10	48177-5	97		94		91		86		0	
11	48177-6	95		100		89		88		0	
12	48177-7	111		115		104		85		0	
13	48177-8	95		96		88		83		0	
14	48177-9	100		96		93		85		0	
15	48177-10	101		108		94		85		0	
16	48177-11	97		92		89		83		0	
17	48177-12	97		91		89		82		0	
18	48177-13	93		91		86		81		0	
19	ZZZZZ	91		108		83		80		0	
20	48177-15	91		96		84		85		0	
21	48177-16	94		97		87		85		0	
22	48177-17	96		102		89		90		0	
23	48177-17 MS	92		100		84		80		0	
24	48177-17 MSD	95		105		86		84		0	
25	48177-18	92		91		84		80		0	
26	48177-19	96		96		89		84		0	
27	P2695 16/60 0.5	106		103		98		95		0	
28											
29											
30											
31											
32											
33											
34											
35											

SMC1 = TCX 49-134
SMC2 = DCB 69-155

Column to be used to flag recovery values
* Values outside of protocol required QC limits
D System Monitoring Compound diluted out

analytics environmental laboratory LLC

PCB SOLID
SYSTEM MONITORING COMPOUND RECOVERY

Project #: CTO 33 Quote #: SDG#: 48177

Site ID: PCB Soil C/U Bldg 335 Location: Topsham, ME

Instrument ID: F

GC Column: RTX-CLPesticides I ID: 0.53(mm)
RTX-CLPesticides II

	SAMPLE ID	COLUMN #1 SMC1	#	COLUMN #2 SMC1	#	TOT OUT	#
		SMC2	#	SMC2	#		
01	P2695 16/60 0.5	106		98		0	
		103		95			
02	ZZZZZ	D		D		0	
		D		D			
03	48177-14 1:20	D		D		0	
		D		D			
04	P2695 16/60 0.5	105		97		0	
		103		95			
05							
06							
07							
08							
09							
10							
11							
12							
13							
14							
15							
16							
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24							
25							
26							
27							
28							
29							
30							
31							
32							
33							
34							
35							

SMC1 = TCX 49-134
SMC2 = DCB 69-155

Column to be used to flag recovery values
* Values outside of protocol required QC limits
D System Monitoring Compound diluted out

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PCB SOLID
LABORATORY CONTROL SPIKE/ DUPLICATE
PERCENT RECOVERY

Project #: CTO 33 Quote #: SDG#: 48177

Site ID: PCB Soil C/U Bldg 335 Location: Topsham, ME

Instrument ID: F

GC Column: RTX-CLPesticides I ID: 0.53(mm)

RTX-CLPesticides II

Laboratory Control Spike/Duplicate Sample ID: L08302PASB\LD08302PASB

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENTRATION (ug/kg)	LCS CONCENTRATION (ug/kg)	LCS RECOVERY %	#	QC LIMITS % REC
PCB 1016	267	U	287	108		52-127
PCB 1260	267	U	291	109		68-159
PCB 1016 #2	267	U	292	109		57-131
PCB 1260 #2	267	U	300	112		56-139

COMPOUND	SPIKE ADDED (ug/kg)	LCSD CONCENTRATION (ug/kg)	LCSD % REC	#	RPD	#	QC LIMITS RPD	QC LIMITS % REC.
PCB 1016	267	287	108		0		50	52-127
PCB 1260	267	299	112		3		50	68-159
PCB 1016 #2	267	303	114		4		50	57-131
PCB 1260 #2	267	309	116		3		50	56-139

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits
RPD: 0 out of 4 outside limits
Spike Recovery:0 out of 8 outside limits

Comments: _____

analytics environmental laboratory LLC

PCB SOLID
MATRIX SPIKE/ DUPLICATE
PERCENT RECOVERY

Project #: CTO 33 Quote #: SDG#: 48177

Site ID: PCB Soil C/U Bldg 335 Location: Topsham, ME

Instrument ID: F

GC Column: RTX-CLPesticides I ID: 0.53(mm)

RTX-CLPesticides II

Matrix Spike/Duplicate Sample ID: 48177-17

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENTRATION (ug/kg)	MS CONCENTRATION (ug/kg)	MS RECOVERY %	#	QC LIMITS % REC
PCB 1016	307	U	308	101		52-127
PCB 1260	307	U	353	115		68-159
PCB 1016 #2	307	U	334	109		57-131
PCB 1260 #2	307	U	287	94		56-139

COMPOUND	SPIKE ADDED (ug/kg)	MSD CONCENTRATION (ug/kg)	MSD % REC	#	RPD	#	QC LIMITS RPD	QC LIMITS % REC.
PCB 1016	309	317	102		3		50	52-127
PCB 1260	309	369	119		4		50	68-159
PCB 1016 #2	309	344	111		3		50	57-131
PCB 1260 #2	309	294	95		3		50	56-139

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits
RPD: 0 out of 4 outside limits
Spike Recovery: 0 out of 8 outside limits

Comments: _____

PEST/PCB/HERB Instrument: F

Load: See

Unload: _____

U80902-F

Data File	Vial	Sample	Dil	Method	Comments
F26112	100	HEXANE		PB080892.M	
13	1	P2692 16/60 0.02			NOT USED
14	2	P2692 16/60 0.02			✓
15	2	P2693 16/60 0.05			✓
16	3	P2694 16/60 0.1			✓
17	4	P2695 16/60 0.5			✓
18	5	P2696 16/60 1.0			✓
19	6	P2598 16/60 cc			✓
20	7	P2677 1221 1.0			for, perhaps
21	8	P2678 1232 1.0			SP 8.
22	9	P2679 1242 1.0			
23	10	P2682 1248 1.0			
24	11	P2680 1254 1.0			
25	12	B08082PAS			✓
* 26A 26	13	L08082PASB			✓
27	14	L08082PASB			✓
28	15	48041-2			✓
29	16	-3			✓
30	17	-6			✓
31	18	-7			✓
32	19	-8			✓
33	20	-9			✓
34	21	-10			✓
35	22	-12			✓
36	23	-13			✓
37	24	-14			✓
38	25	-14 MS			E Flag 1016
39	26	-14 MSD			1260 - OK
					fails SP

(CONT.)

* Faulty auto, syringe stuck

[048/050]

PEST/PCB/HERB Instrument: F

Load: [illegible]
Unload: AWL

[illegible] 083002-F [illegible]

Data File	Vial	Sample	Dil	Method	Comments
F26786	1	P2695 16/60 0.5		PBQ08092.M	✓
87	2	P2680 1254 1.0		54QSINGL.M	for overlay c
88	3	B08282PW A/C			✓
89	4	L08282PWS			✓
90	5	48149-2			✓ ~~Reinject 1.95~~ [illegible] 8-30-02
91	6	B08282PO			✓
92	7	L08282PO			✓
93	8	48149-3			✓
94	9	B08302PO			✓
95	10	L08302PO			✓
96	11	48140-1 A/C			✓
97	12	↓ -2			✓
98	13	48158-1			✓
99	14	↓ -2			✓
F26800	1	P2695 16/60 0.5			✓
1	1	P2695 16/60 0.5			✓
2	~~15~~ 2	48149-2 A/C			~~[illegible] 8-30-02 Continue~~ NOT NEEDED
3	3	B08302PAS			✓
4	4	L08302PAS			✓
5	5	L08302PAS			✓
6	6	48177-1			✓
7	7	-2			✓
8	8	-3			✓
9	9	-4			✓
10	10	-5			✓
11	11	-6			✓
12	12	-7			✓
13	13	-8			✓

PEST/PCB/HERB Instrument: F

Cont. 083002-F

Load: AUR/AL
Unload: AUR

Data File	Vial	Sample	Dil	Method	Comments
P26814	14	48177-9		PBQ8092.m	✓
15	15	-10			✓
16	16	-11			✓
17	17	-12			✓
18	18	-13			✓
19	19	-14			RR 1:10
20	20	-15			✓
21	21	-16			✓
22	22	-17			✓
23	23	-17MS			✓
24	24	-17MSD			✓
25	25	-18			✓
26	26	-19			✓
27	1	P2695 16/60 0.5			✓
28	27	48177-14	10		100ml + 900ml Hexane RR 1:20
29	28	-14	20	✓	500ml 1:10 + 500ml Hexane
30	1	P2695 16/60 0.5			✓

AUR 9/2/02

analytics environmental laboratory LLC

PCB
INITIAL CALIBRATION DATA

Project #: CTO 33 Quote #: SDG#: 48177

Site ID: PCB Soil C/U Bldg 335 Location: Topsham, ME

Instrument ID: F

GC Column: RTX-CLPesticides I ID: 0.53(mm)

RTX-CLPesticides II

Method Name: PBQ08092.M

Level 1 File Name	F26114.D
Level 2 File Name	F26115.D
Level 3 File Name	F26116.D
Level 4 File Name	F26117.D
Level 5 File Name	F26118.D

Compound	Calibration Fit	R
TCX	Linear	0.999
Ar1016 A	Linear	0.998
Ar1016 B	Linear	0.998
Ar1016 C	Linear	0.999
Ar1260 A	Linear	1.000
Ar1260 B	Linear	0.999
Ar1260 C	Linear	1.000
Ar1260 D	Linear	1.000
DCB	Linear	0.999
TCX #2	Linear	0.999
Ar1016 A #2	Linear	0.998
Ar1016 B #2	Linear	0.996
Ar1016 C #2	Linear	0.998
Ar1260 A #2	Linear	0.998
Ar1260 B #2	Linear	0.998
Ar1260 C #2	Linear	0.999
Ar1260 D #2	Linear	0.998
DCB #2	Linear	0.999

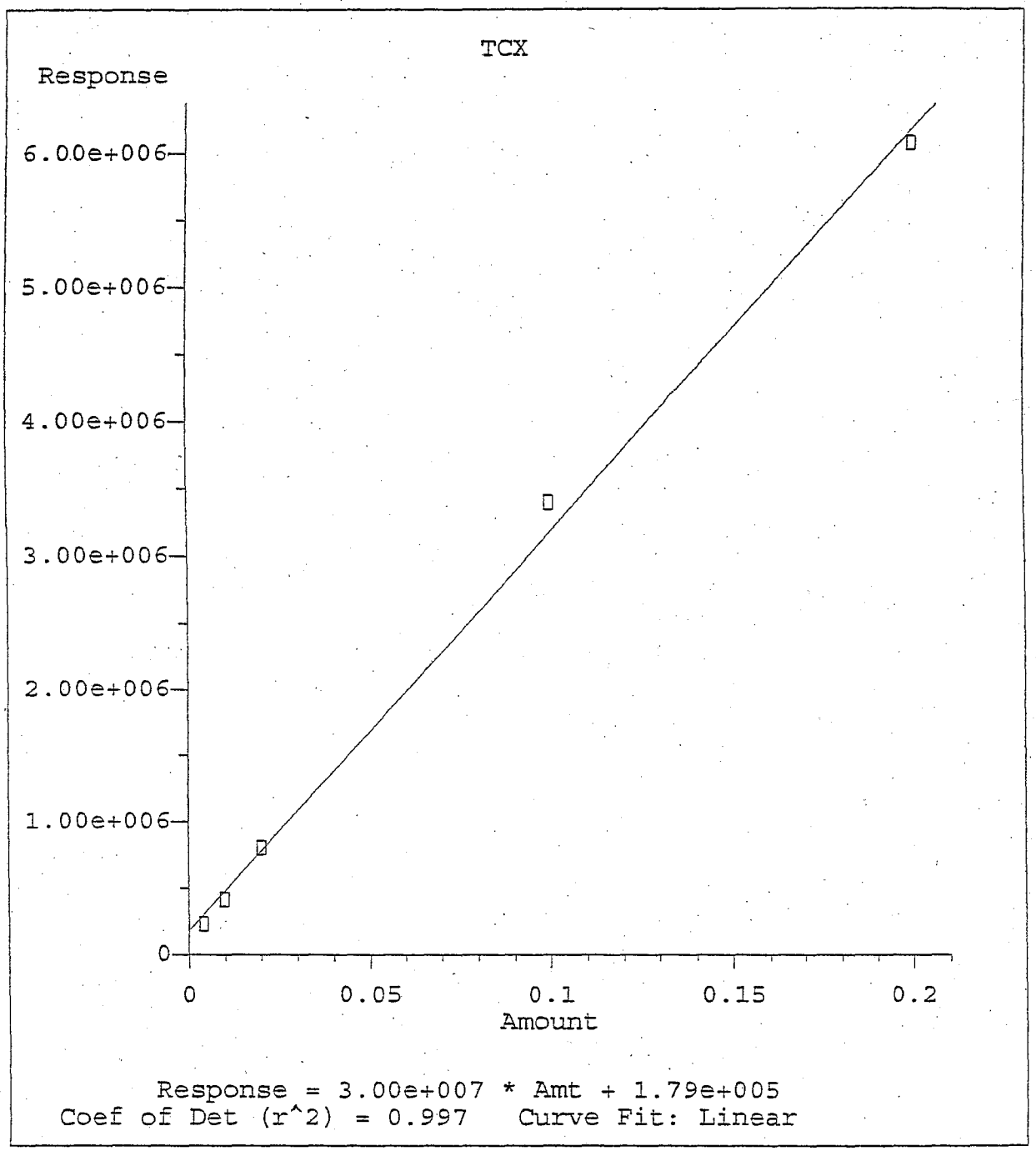
*Compounds must have a %RSD of ≤20% or correlation coefficient of 0.995 or greater.

Comments: _____

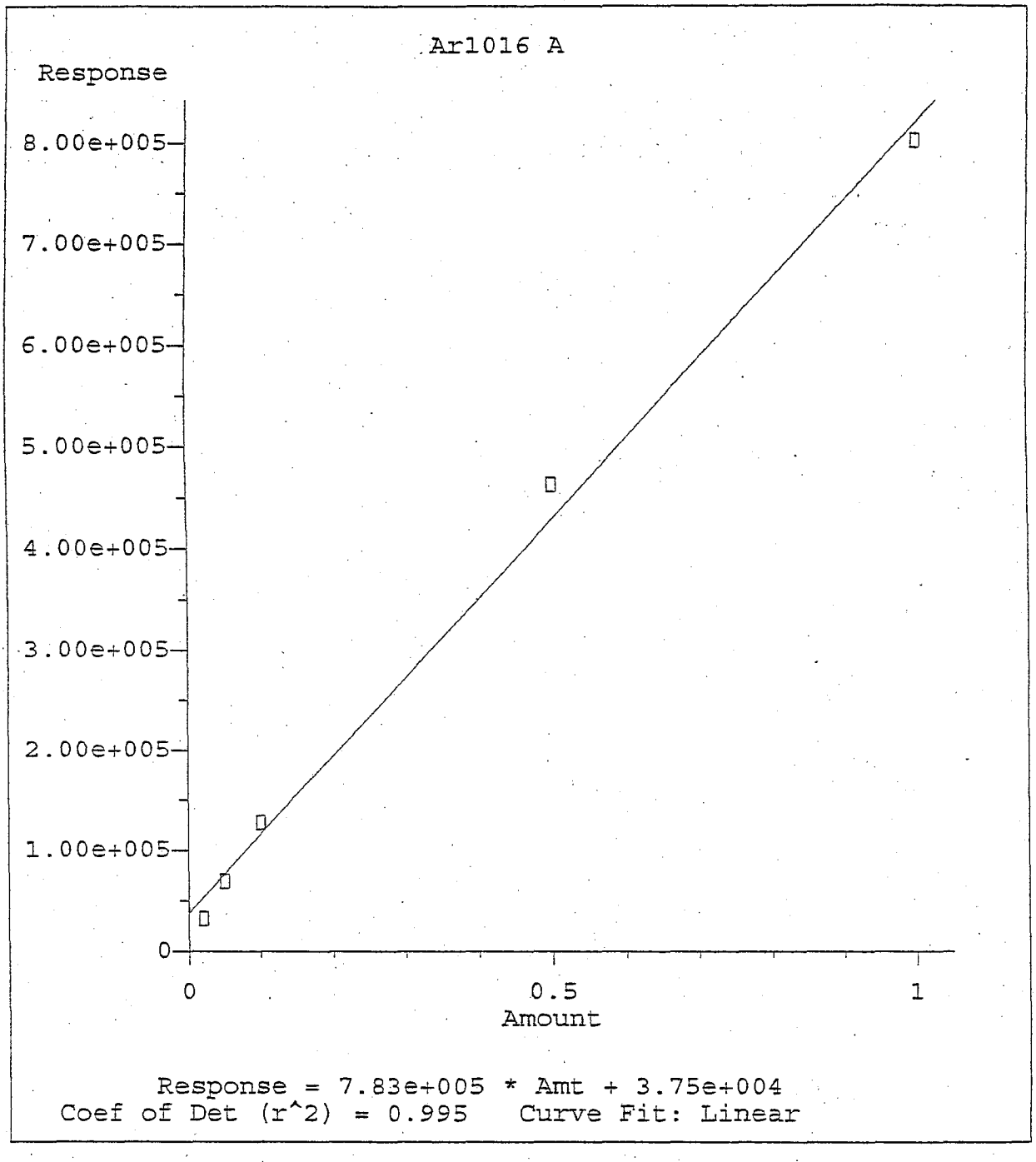
D:\HPCHEM\2\METHODS\PBQ8092.M

Level 1 File Name F26114.D
Level 2 File Name F26115.D
Level 3 File Name F26116.D
Level 4 File Name F26117.D
Level 5 File Name F26118.D

Name	Calibration Fit	R^2	R
TCX	Linear	0.997	0.999
Ar1016 A	Linear	0.995	0.998
Ar1016 B	Linear	0.995	0.998
Ar1016 C	Linear	0.997	0.999
Ar1260 A	Linear	0.999	1.000
Ar1260 B	Linear	0.999	0.999
Ar1260 C	Linear	0.999	1.000
Ar1260 D	Linear	0.999	1.000
DCB	Linear	0.999	0.999
TCX #2	Linear	0.997	0.999
Ar1016 A #2	Linear	0.997	0.998
Ar1016 B #2	Linear	0.992	0.996
Ar1016 C #2	Linear	0.995	0.998
Ar1260 A #2	Linear	0.997	0.998
Ar1260 B #2	Linear	0.997	0.998
Ar1260 C #2	Linear	0.998	0.999
Ar1260 D #2	Linear	0.997	0.998
DCB #2	Linear	0.998	0.999



Method Name: D:\HPCHEM\2\METHODS\PBQ8092.M
Calibration Table Last Updated: Mon Aug 12 13:21:28 2002



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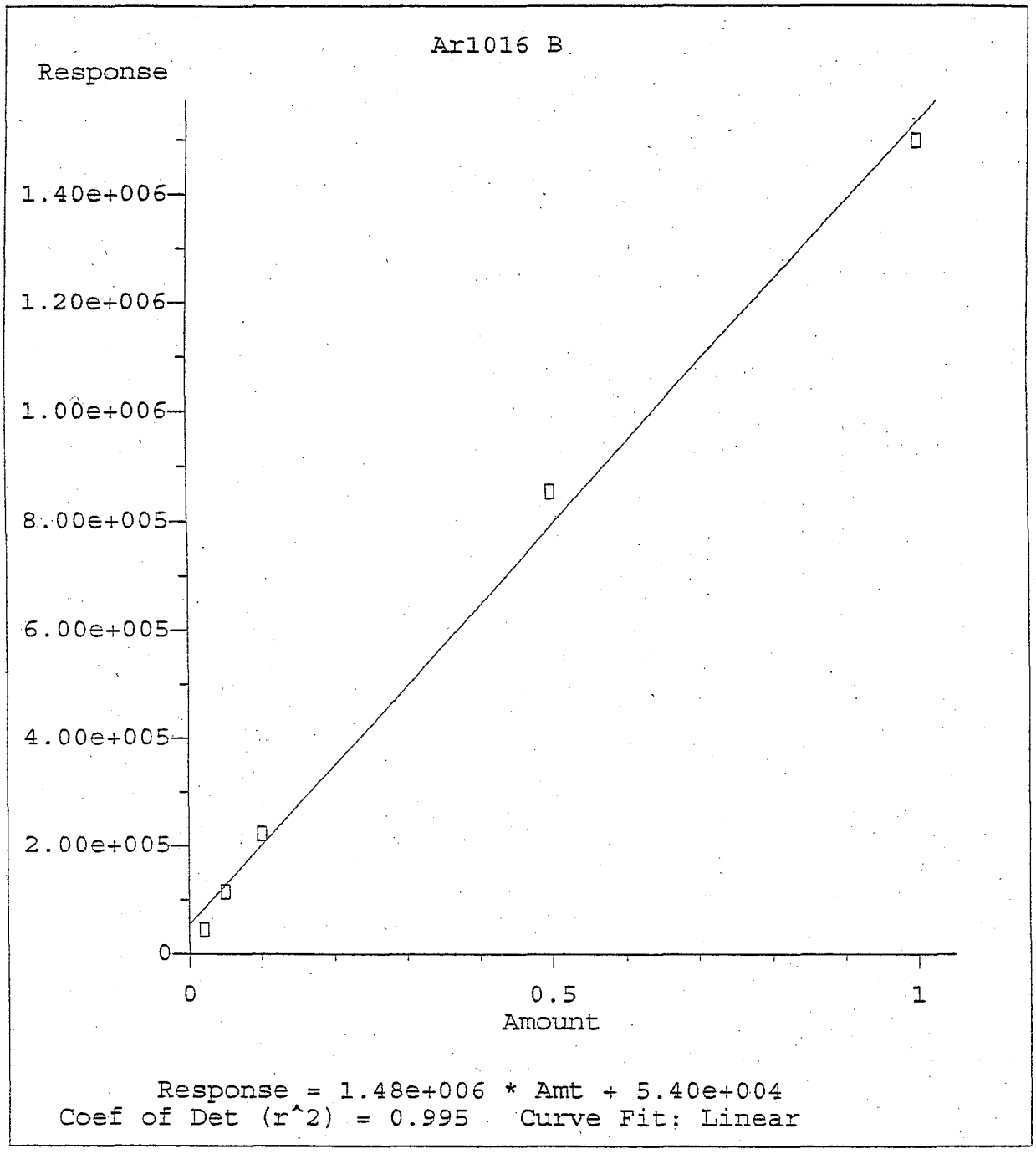

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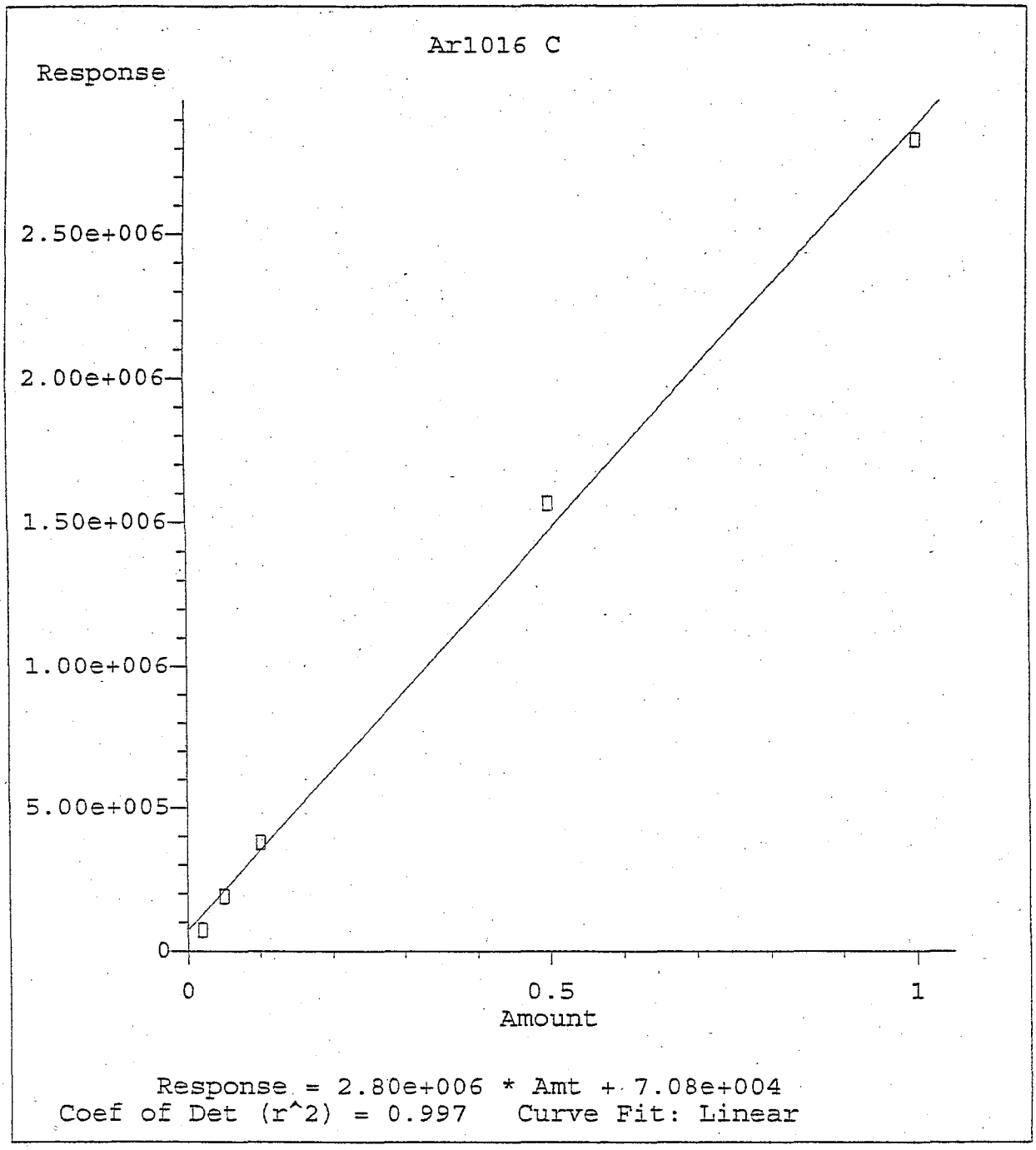

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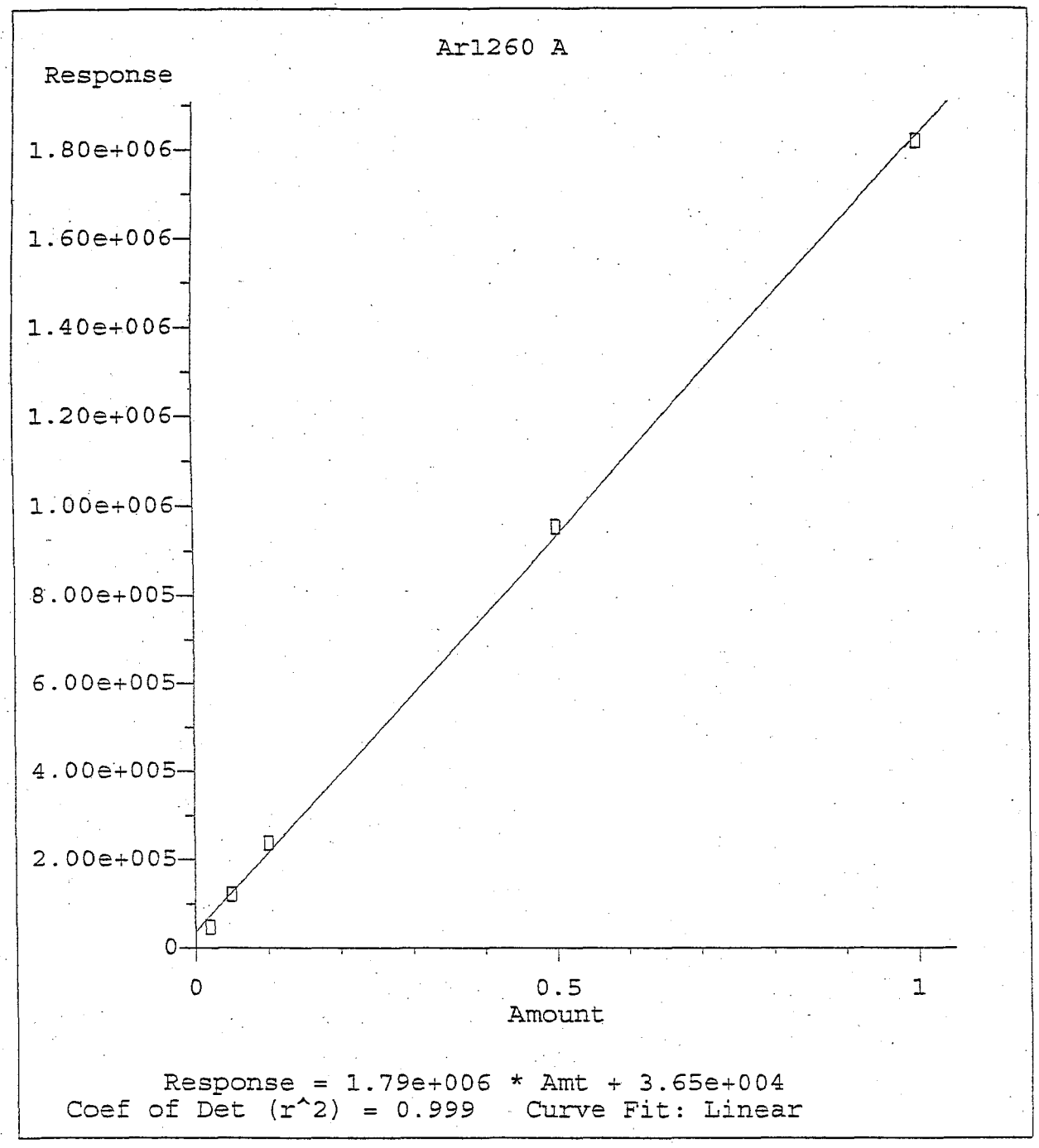

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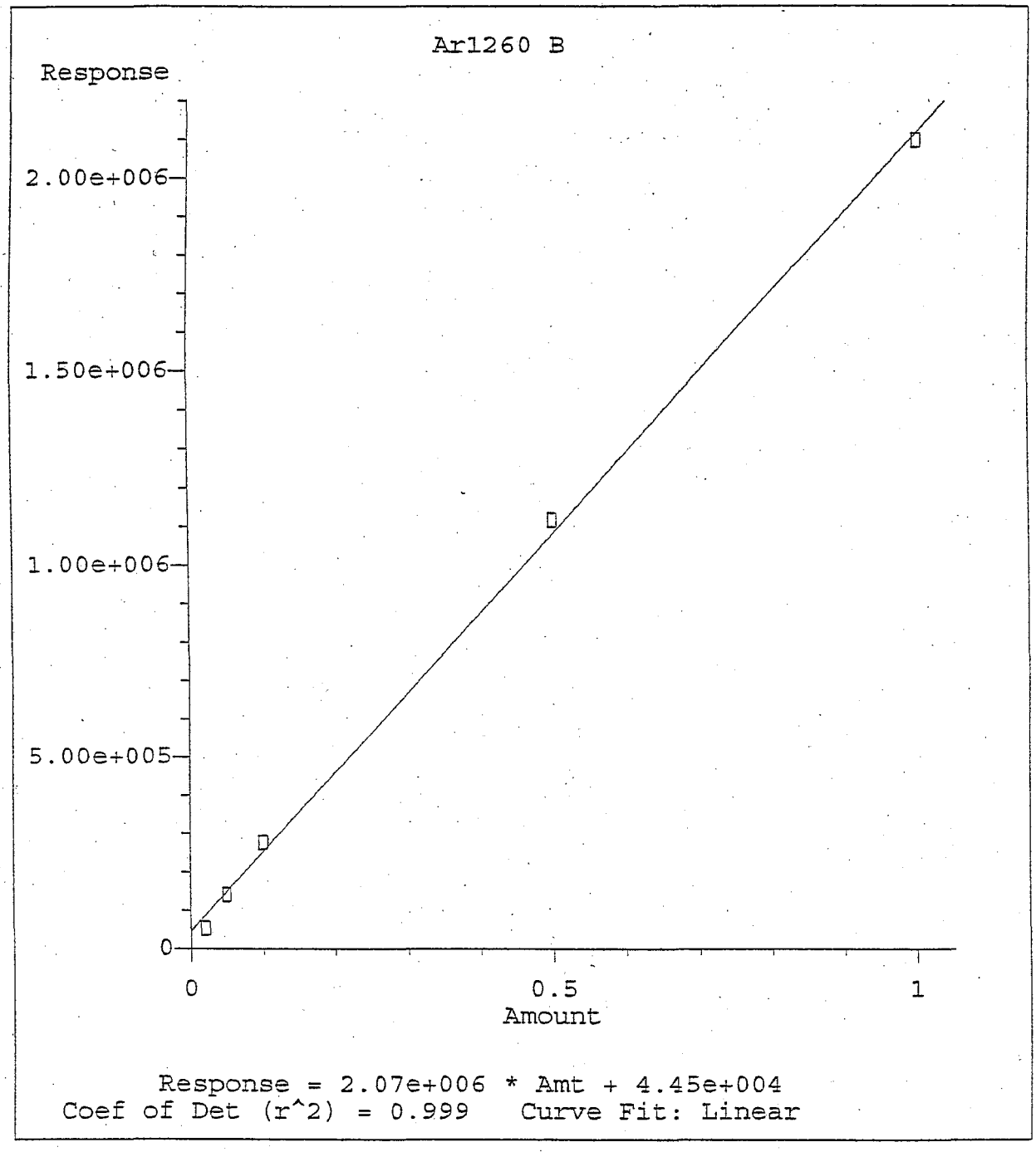

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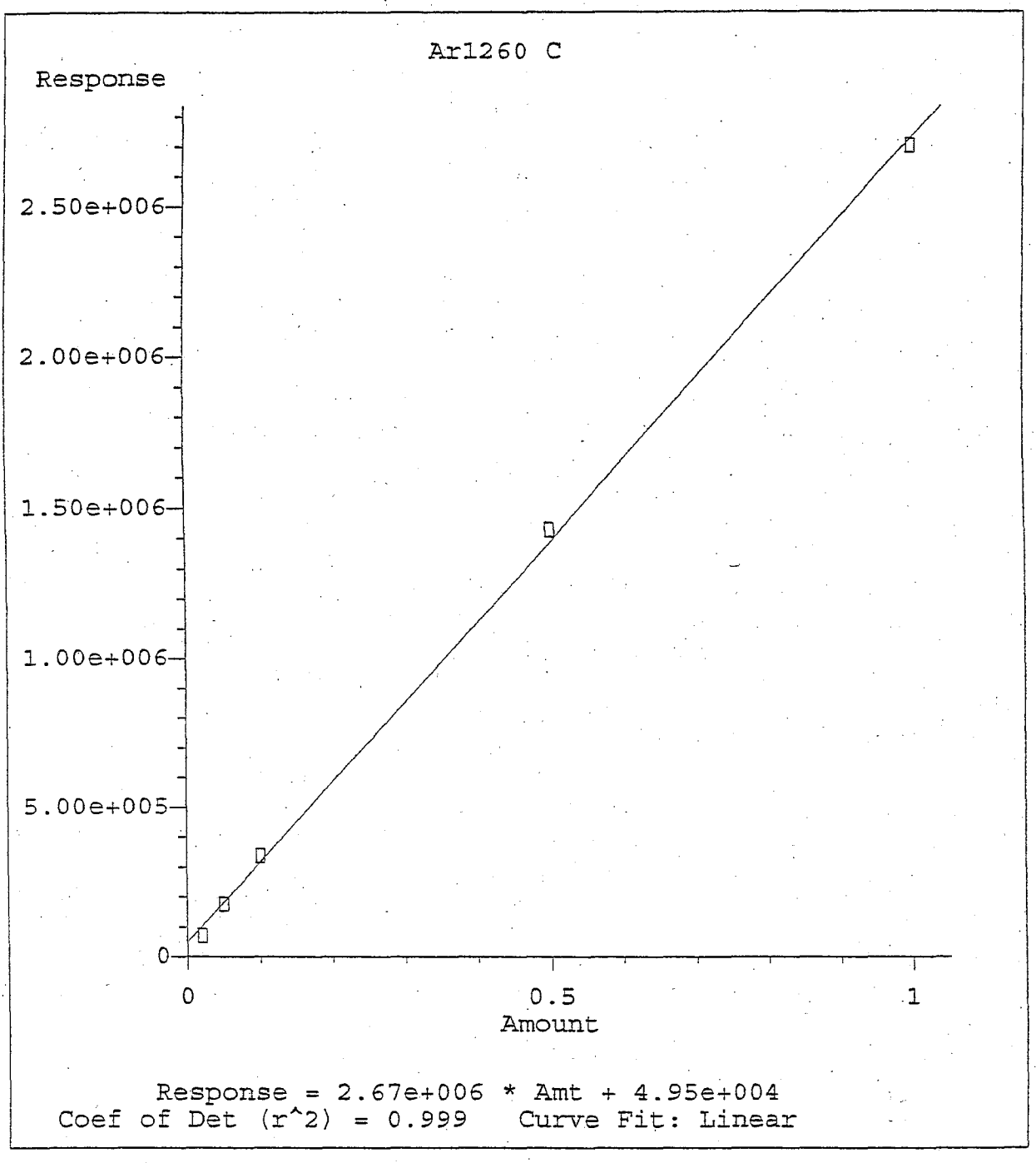
Calibration Table Last Updated: Mon Aug 19 08:41:34 2002



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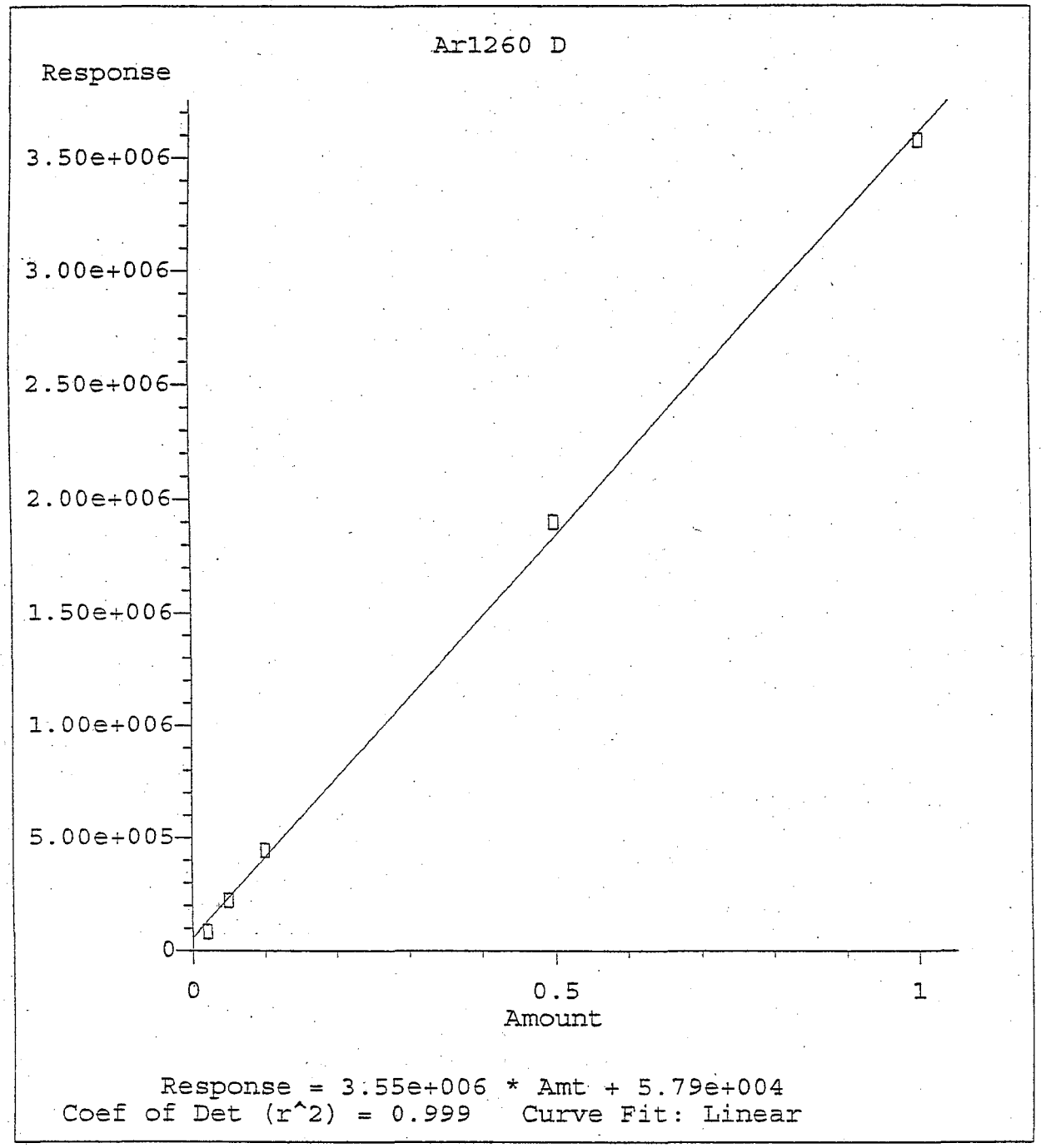

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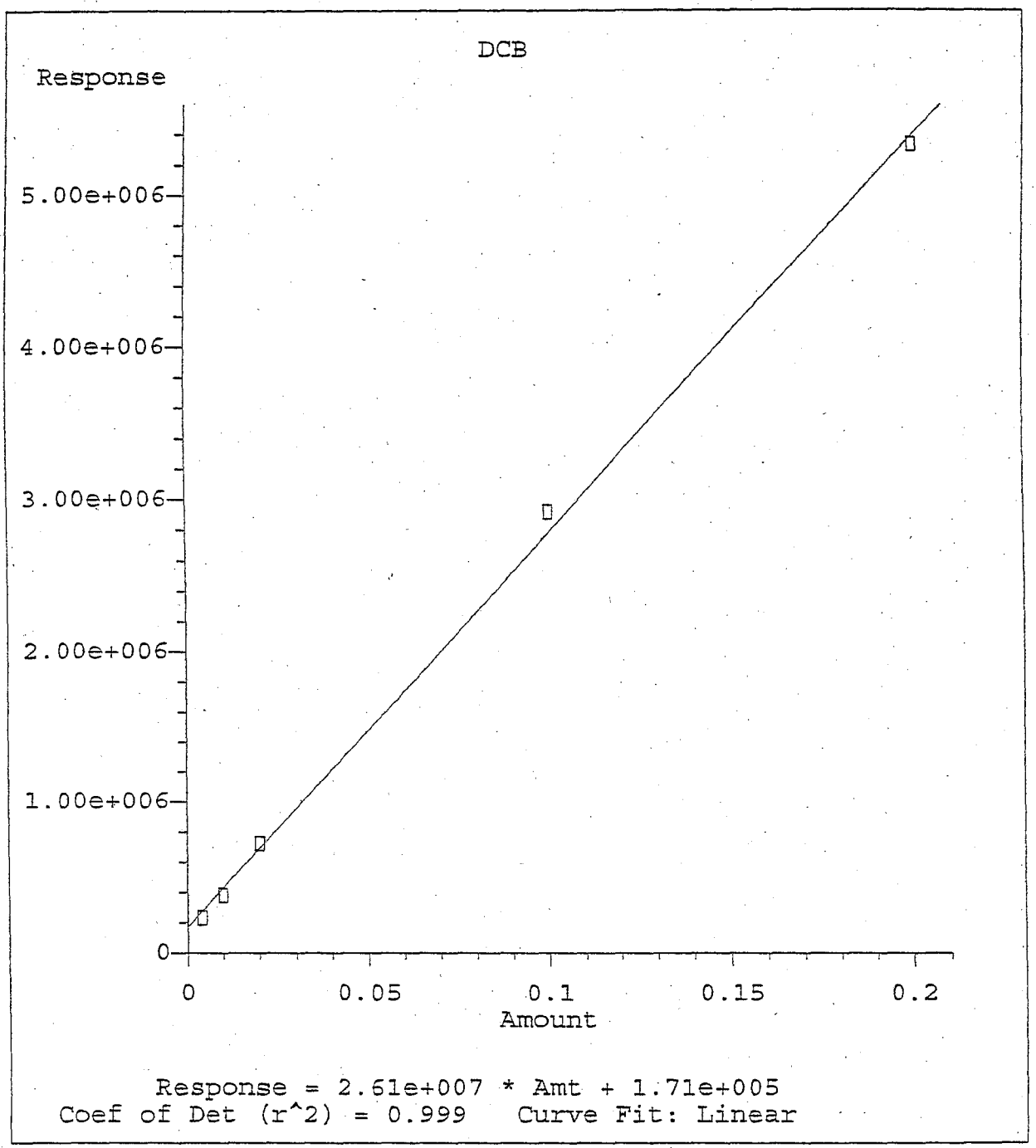

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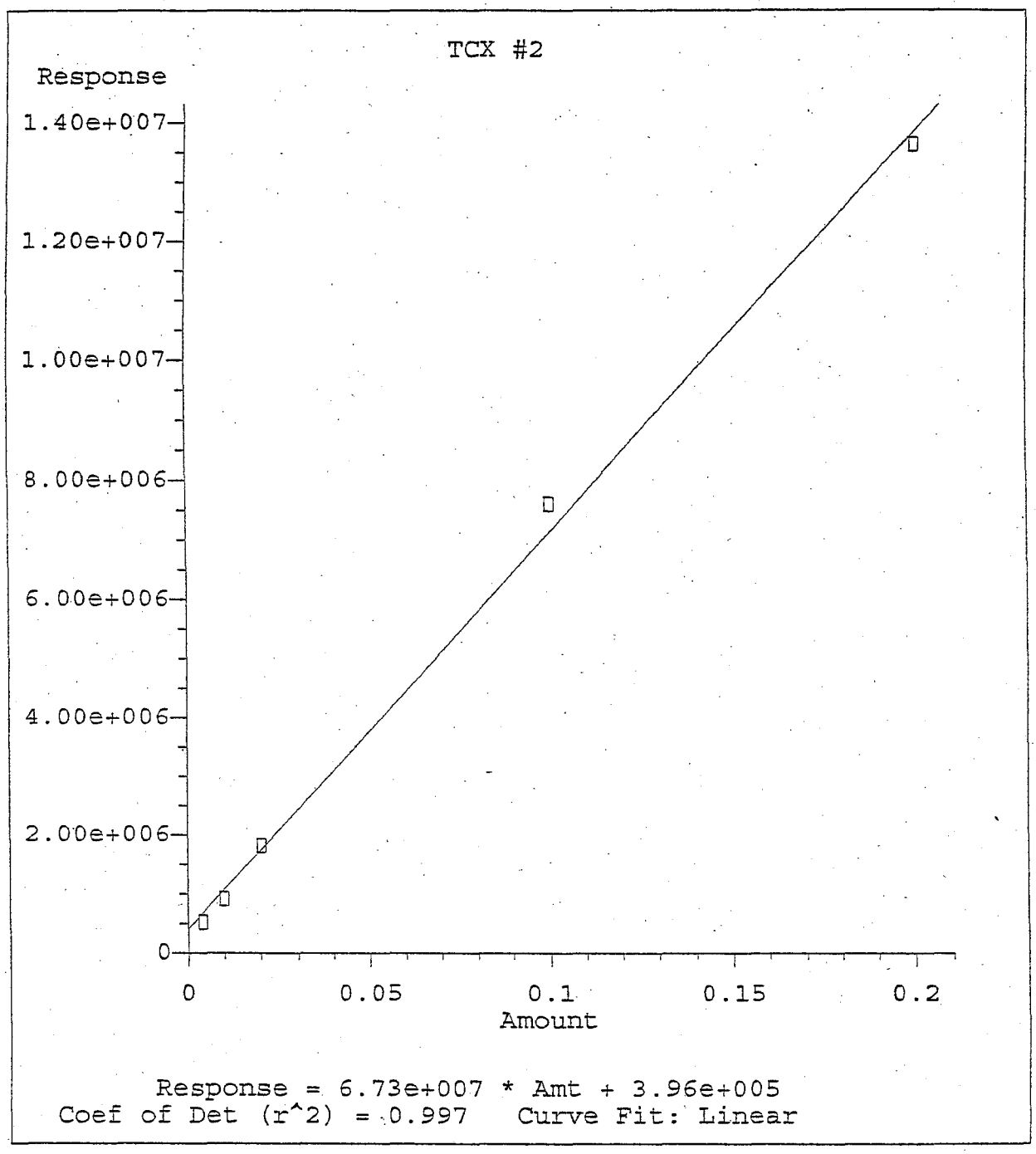

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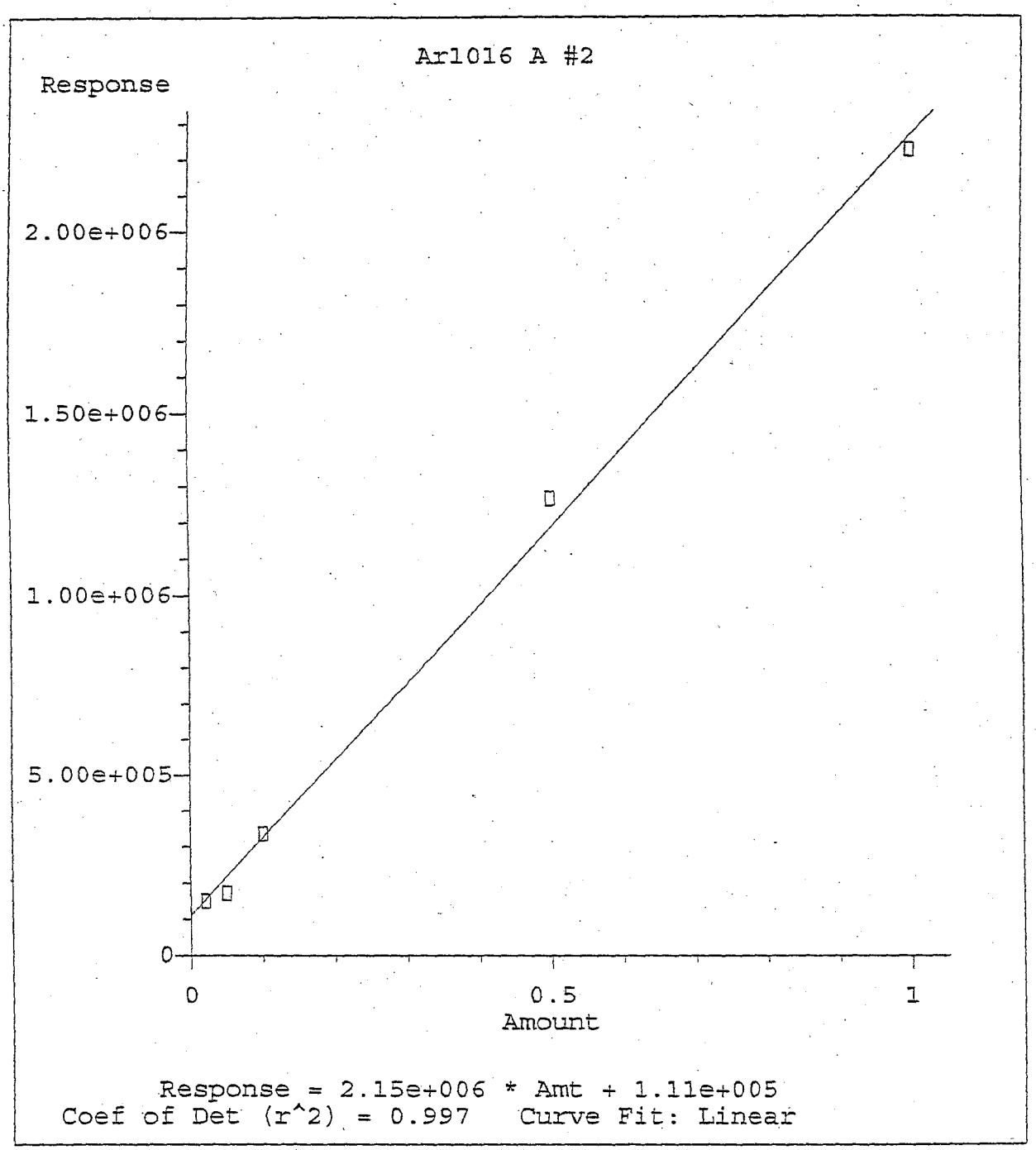

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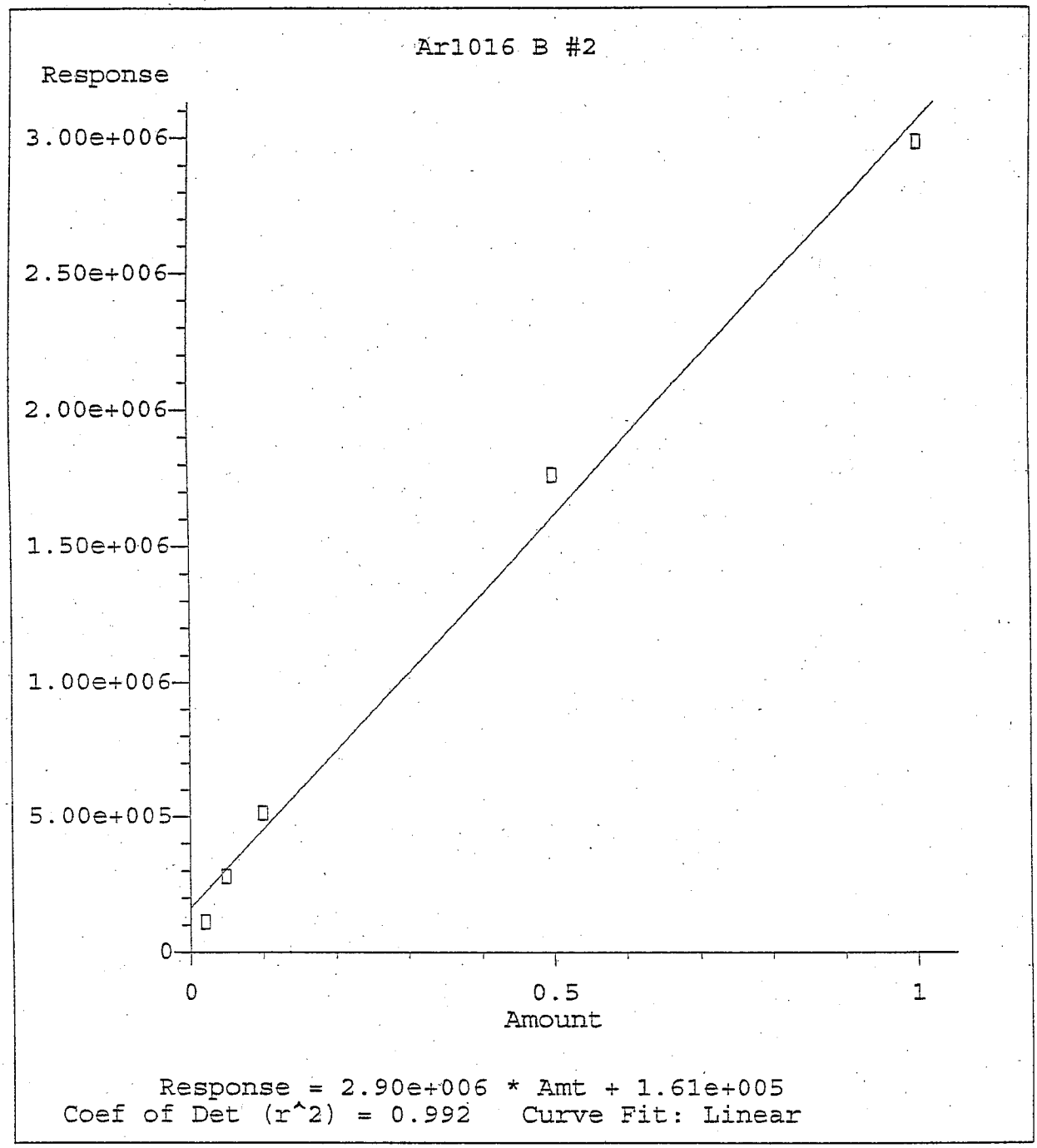

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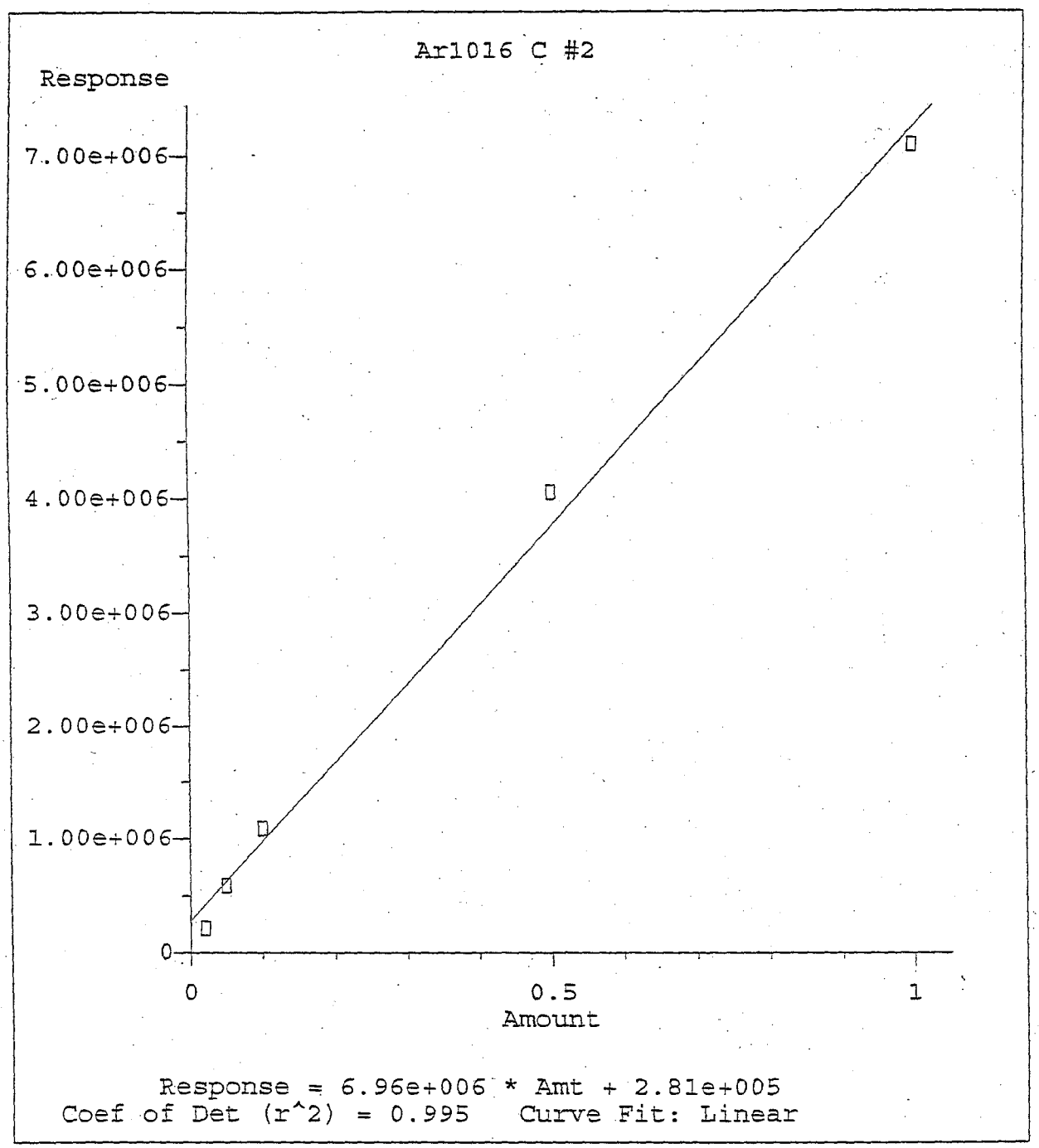

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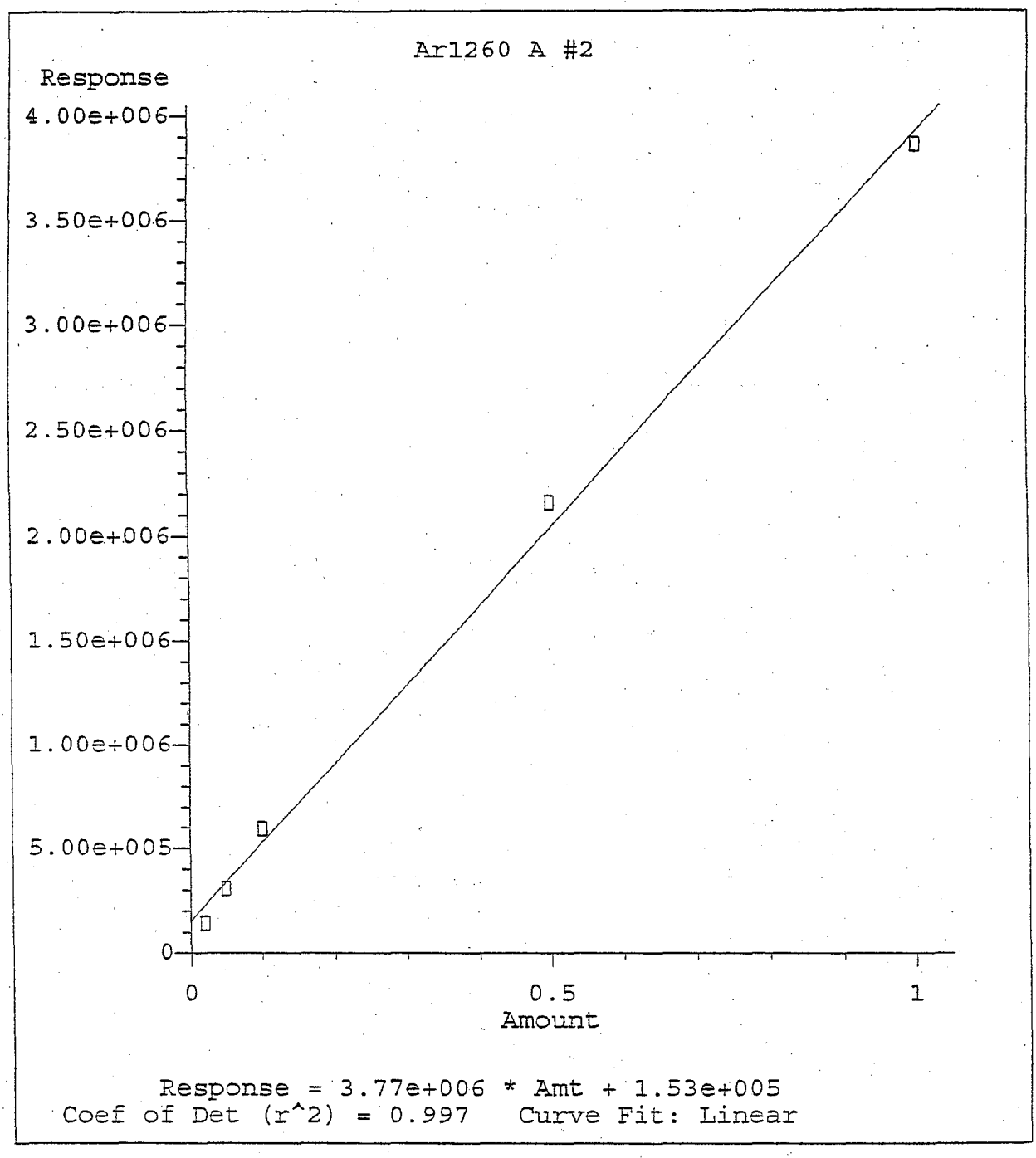

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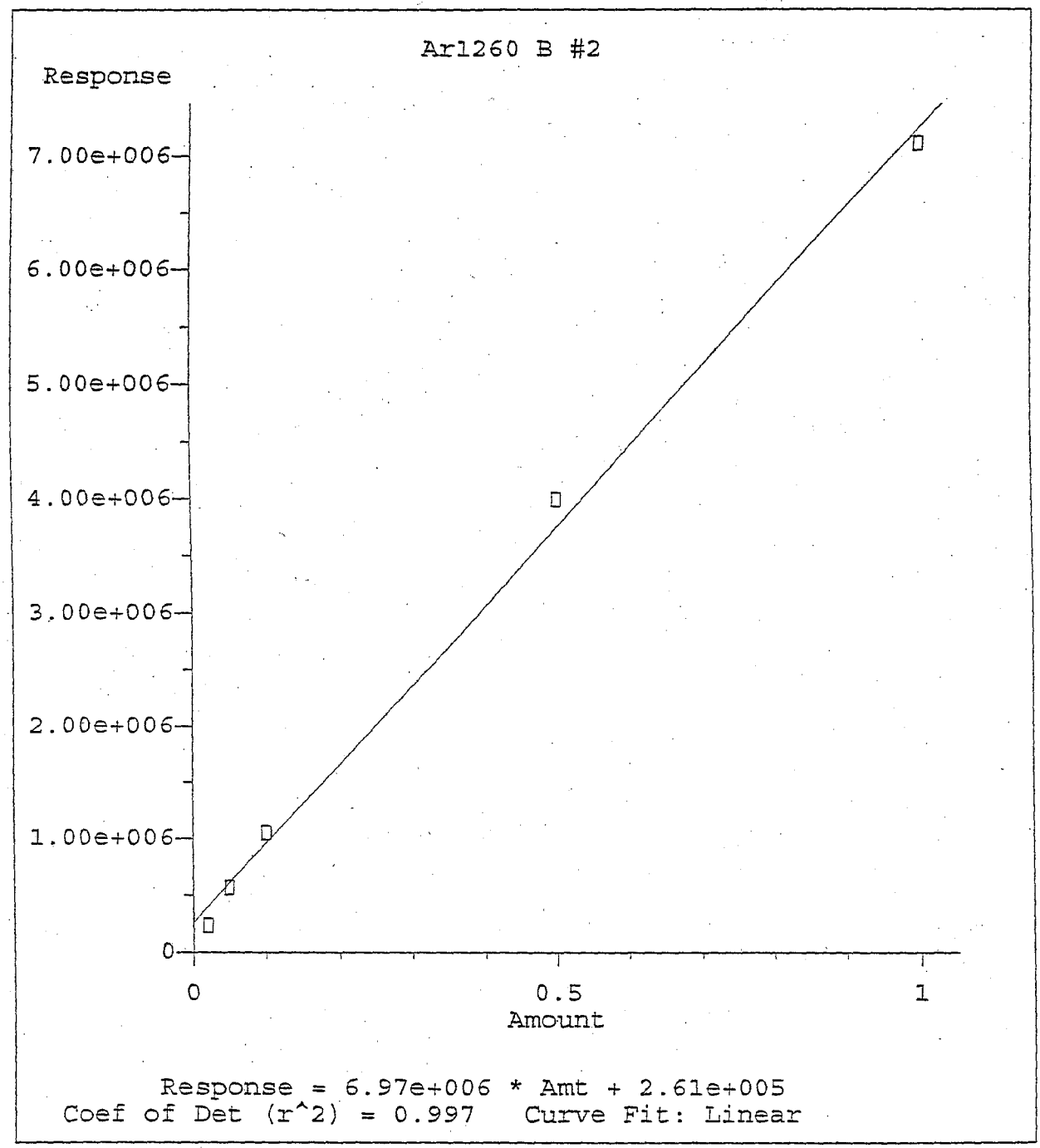

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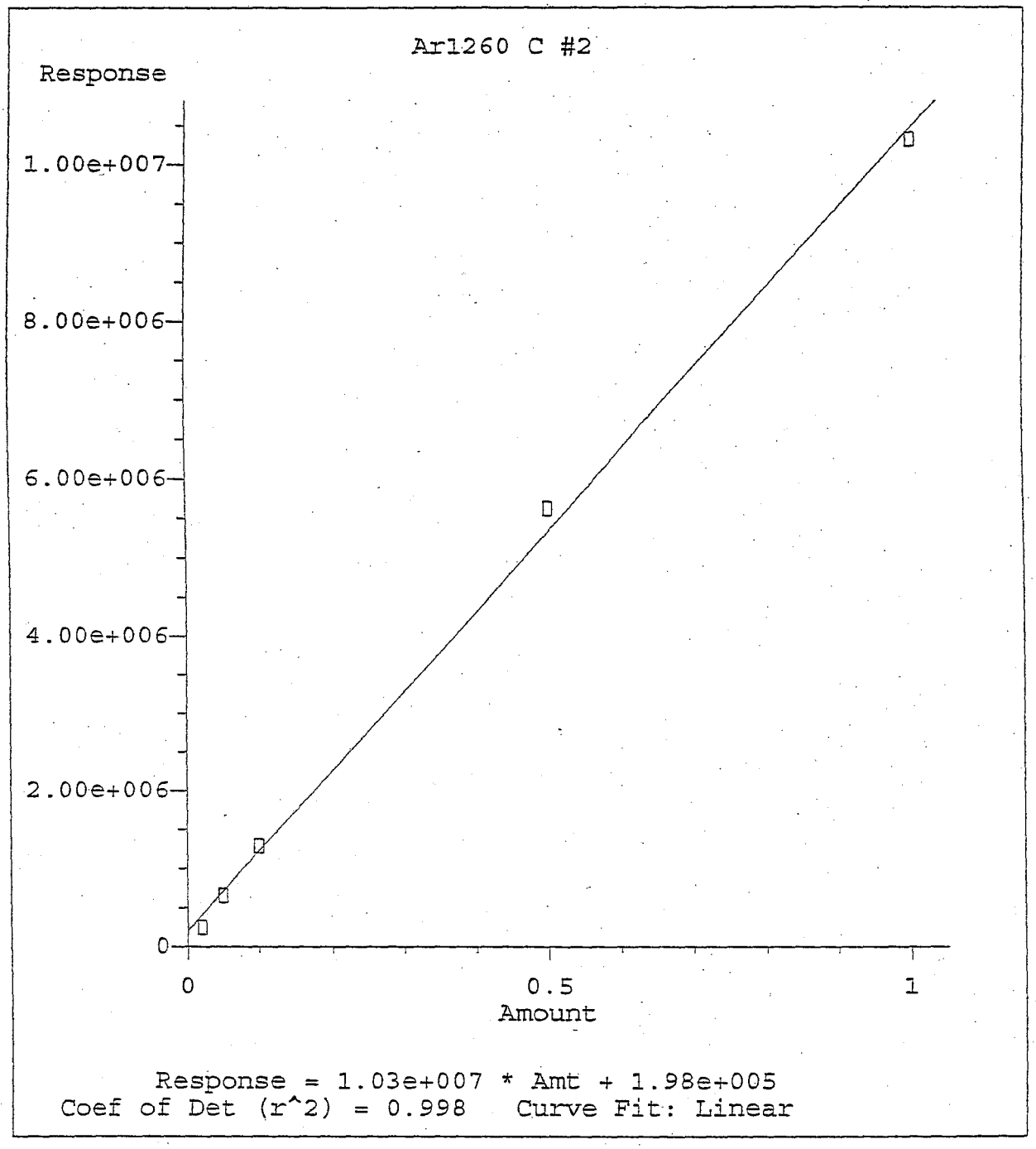

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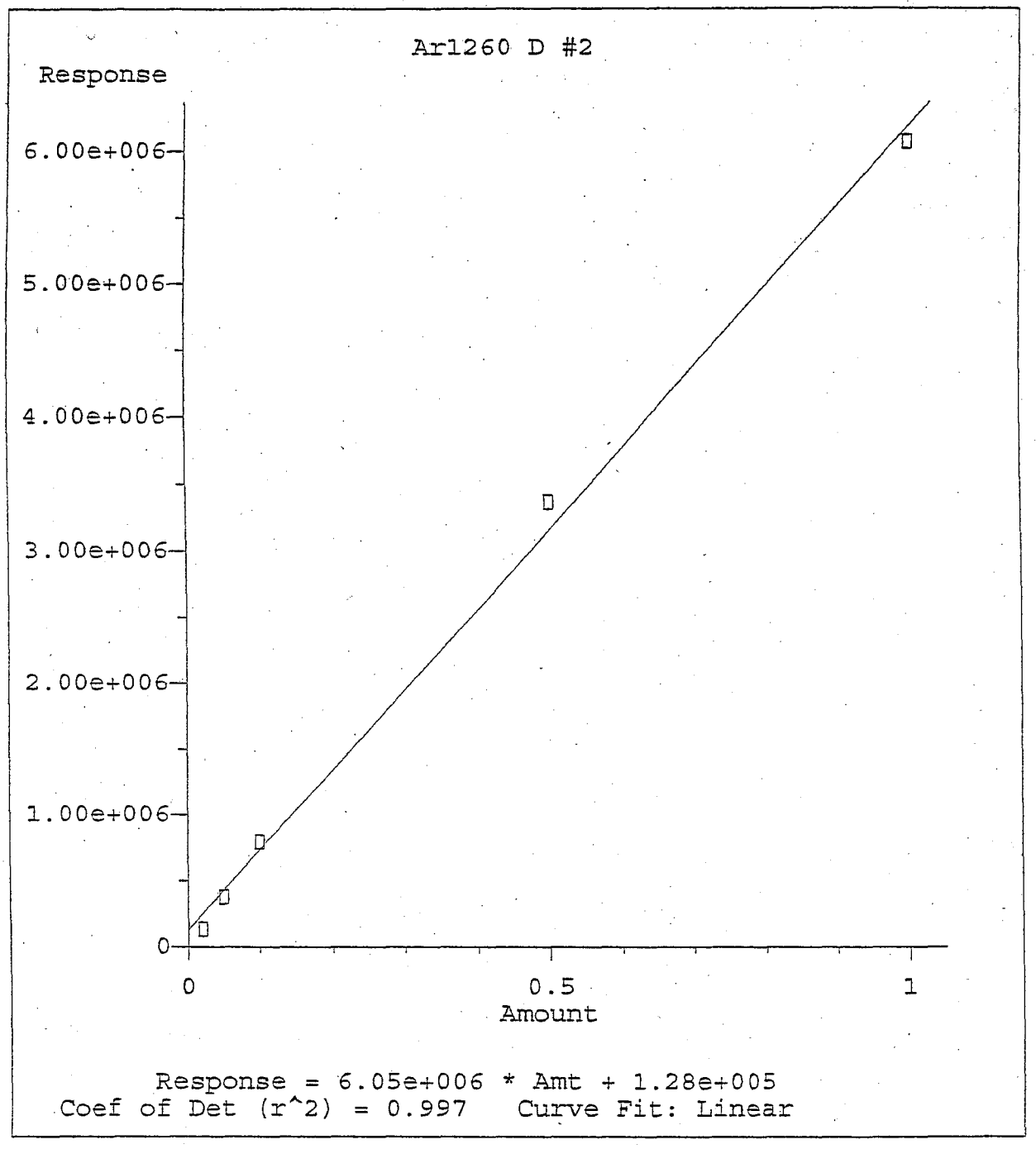

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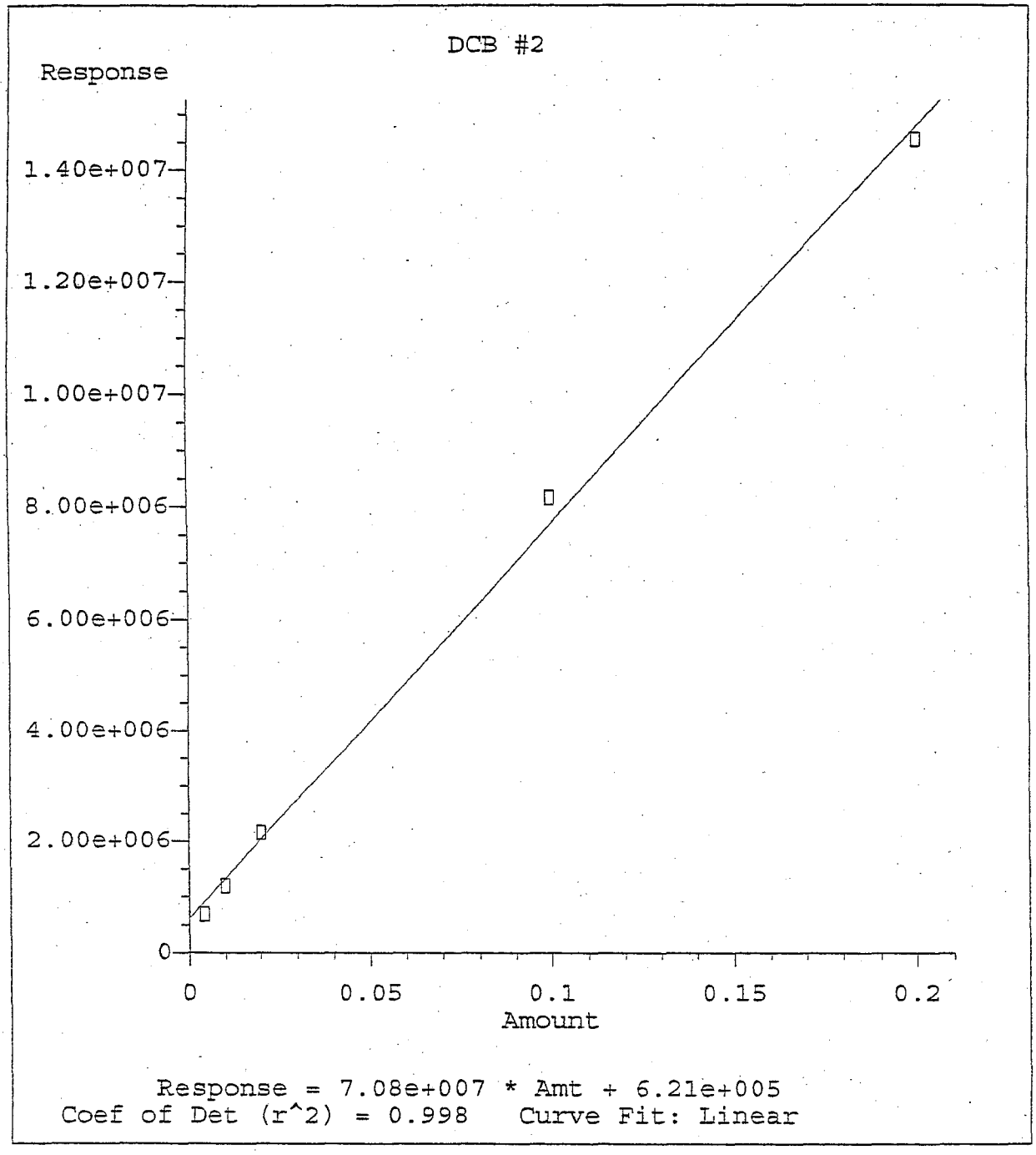

Method Name: D:\HPCHEM\2\METHODS\PBQ8092.M
Calibration Table Last Updated: Mon Aug 19 08:41:34 2002

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7A
PCB CONTINUING CALIBRATION CHECK

Site ID: Topsham, ME

Project No.: CTO 33 GC Column #1: RTX-CLP Pesticides I Data Package ID: 48177

Instrument ID: F GC Column #2 : RTX-CLP Pesticides II ID: 0.53 mm

File #: F26801 Cal. Check Date: 8/30/02 17:20

COMPOUND	True Value (ug/mL)	Measured Value (ug/mL)	% Recovery	Limits %R	Total Out
PCB 1016	0.50	0.544	109	85-115	0
PCB1260	0.50	0.501	100	85-115	0
PCB 1016#2	0.50	0.526	105	85-115	0
PCB 1260 #2	0.50	0.472	94	85-115	0

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7A
PCB CONTINUING CALIBRATION CHECK

Site ID: Topsham, ME

Project No.: CTO 33 GC Column #1: RTX-CLP Pesticides I Data Package ID: 48177

Instrument ID: F GC Column #2 : RTX-CLP Pesticides II ID: 0.53 mm

File #: F26827 Cal. Check Date: 8/30/02 23:33

COMPOUND	True Value (ug/mL)	Measured Value (ug/mL)	% Recovery	Limits %R	Total Out
PCB 1016	0.50	0.540	108	85-115	0
PCB1260	0.50	0.513	103	85-115	0
PCB 1016#2	0.50	0.513	103	85-115	0
PCB 1260 #2	0.50	0.466	93	85-115	0

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7A
PCB CONTINUING CALIBRATION CHECK

Site ID: Topsham, ME

Project No.: CTO 33 GC Column #1: RTX-CLP Pesticides I Data Package ID: 48177

Instrument ID: F GC Column #2 : RTX-CLP Pesticides II ID: 0.53 mm

File #: F26830 Cal. Check Date: 8/31/02 1:24

COMPOUND	True Value (ug/mL)	Measured Value (ug/mL)	% Recovery	Limits %R	Total Out
PCB 1016	0.50	0.534	107	85-115	0
PCB1260	0.50	0.534	107	85-115	0
PCB 1016#2	0.50	0.532	106	85-115	0
PCB 1260 #2	0.50	0.479	96	85-115	0

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PCB SOIL
SYSTEM MONITORING COMPOUND RETENTION TIME SUMMARY

Quote#: SDG: 48177

Project No: CTO 33 Site ID: PCB Soil C/U Bldg 335 Location: Topsham, ME

GC Columns: RTX-CLPesticidesI ID: 0.53(mm)
Instrument ID: E RTX-CLPesticidesII

Date Analyzed: 8/9/02
Lab File ID (Standard) : F26117 Time Analyzed: 16:24

	COLUMN #1		COLUMN #1	
	SMC1	SMC 2	SMC1	SMC 2
PESTICIDE STANDARD	1.90	7.48	1.56	6.39
UPPER LIMIT	1.93	7.52	1.59	6.43
LOWER LIMIT	1.87	7.44	1.53	6.35

	SAMPLE ID	LAB FILE ID	DATE	TIME	COLUMN #1 SMC1	#	COLUMN #1 SMC 2	#	COLUMN #2 SMC1	#	COLUMN #2 SMC 2	#
01	ZZZZZ	F26113.D	08/09/02	15:37	1.90		7.48		1.56		6.39	
02	P2692 16/60 0.02	F26114.D	08/09/02	15:49	1.90		7.47		1.56		6.39	
03	P2693 16/60 0.05	F26115.D	08/09/02	16:01	1.90		7.47		1.56		6.39	
04	P2694 16/60 0.1	F26116.D	08/09/02	16:13	1.90		7.47		1.56		6.39	
05	P2695 16/60 0.5	F26117.D	08/09/02	16:24	1.90		7.47		1.56		6.38	
06	P2696 16/60 1.0	F26118.D	08/09/02	16:36	1.90		7.47		1.56		6.38	
07	ZZZZZ	F26119.D	08/09/02	16:47	1.89		7.47		1.54		6.38	
08	P2677 1221 1.0	F26120.D	08/09/02	16:59	NA		NA		NA		NA	
09	P2678 1232 1.0	F26121.D	08/09/02	17:10	NA		NA		NA		NA	
10	P2679 1242 1.0	F26122.D	08/09/02	17:22	NA		NA		NA		NA	
11	P2682 1248 1.0	F26123.D	08/09/02	17:33	NA		NA		NA		NA	
12	P2680 1254 1.0	F26124.D	08/09/02	17:45	NA		NA		NA		NA	
13	ZZZZZ	F26125.D	08/09/02	17:56	1.89		7.46		1.55		6.38	
14	ZZZZZ	F26126.D	08/09/02	18:10	1.79	*	7.38	*	0.00	*	6.45	*
15	ZZZZZ	F26126A.D	08/09/02	19:41	1.92		7.49		1.57		6.40	
16	ZZZZZ	F26127.D	08/09/02	19:52	1.91		7.48		1.57		6.39	
17	ZZZZZ	F26128.D	08/09/02	20:04	1.90		7.48		1.57		6.39	
18	ZZZZZ	F26129.D	08/09/02	20:16	1.90		7.47		1.56		6.39	
19	ZZZZZ	F26130.D	08/09/02	20:27	1.90		7.47		1.56		6.39	
20	ZZZZZ	F26131.D	08/09/02	20:39	1.90		7.47		1.56		6.39	
21	ZZZZZ	F26132.D	08/09/02	20:50	1.90		7.47		1.56		6.38	
22	ZZZZZ	F26133.D	08/09/02	21:01	1.90		7.47		1.56		6.38	
23	ZZZZZ	F26134.D	08/09/02	21:13	1.90		7.47		1.56		6.38	
24	ZZZZZ	F26135.D	08/09/02	21:24	1.90		7.47		1.56		6.38	
25	ZZZZZ	F26136.D	08/09/02	21:36	1.90		7.47		1.56		6.38	
26	ZZZZZ	F26137.D	08/09/02	21:47	1.90		7.47		1.56		6.38	
27	ZZZZZ	F26138.D	08/09/02	21:59	1.90		7.47		1.56		6.38	
28	ZZZZZ	F26139.D	08/09/02	22:11	1.90		7.47		1.56		6.38	
29	ZZZZZ	F26140.D	08/09/02	22:22	1.90		7.47		1.56		6.38	
30	ZZZZZ	F26141.D	08/09/02	22:34	1.90		7.47		1.56		6.38	
31	P2695 16/60 0.5	F26142.D	08/09/02	22:46	1.90		7.47		1.56		6.38	
32												
33												
34												
35												

analytics environmental laboratory LLC

PCB SOIL
SYSTEM MONITORING COMPOUND RETENTION TIME SUMMARY

Quote#: SDG: 48177

Project No: CTO 33 Site ID: PCB Soil C/U Bldg 335 Location: Topsham, ME

GC Columns: RTX-CLPesticidesI ID: 0.53(mm)
Instrument ID: E RTX-CLPesticidesII

Date Analyzed: 8/30/02
Lab File ID (Standard) : F26801 Time Analyzed: 17:20

	COLUMN #1		COLUMN #1	
	SMC1	SMC 2	SMC1	SMC 2
PESTICIDE STANDARD	1.91	7.47	1.57	6.38
UPPER LIMIT	1.94	7.51	1.6	6.42
LOWER LIMIT	1.88	7.43	1.54	6.34

	SAMPLE ID	LAB FILE ID	DATE	TIME	COLUMN #1 SMC1 #	COLUMN #1 SMC 2 #	COLUMN #2 SMC1 #	COLUMN #2 SMC 2 #
01	P2695 16/60 0.5	F26801.D	08/30/02	17:20	1.91	7.47	1.57	6.38
02	ZZZZZ	F26802.D	08/30/02	17:35	1.92	7.48	1.57	6.38
03	B08302PAS	F26803.D	08/30/02	17:47	1.91	7.47	1.57	6.37
04	L08302PASB	F26804.D	08/30/02	17:58	1.91	7.47	1.57	6.37
05	LD08302PASB	F26805.D	08/30/02	18:10	1.91	7.47	1.57	6.37
06	48177-1	F26806.D	08/30/02	18:21	1.91	7.47	1.57	6.37
07	48177-2	F26807.D	08/30/02	18:38	1.92	7.48	1.57	6.38
08	48177-3	F26808.D	08/30/02	18:49	1.91	7.47	1.56	6.37
09	48177-4	F26809.D	08/30/02	19:01	1.91	7.47	1.56	6.37
10	48177-5	F26810.D	08/30/02	19:12	1.91	7.47	1.56	6.37
11	48177-6	F26811.D	08/30/02	19:24	1.91	7.47	1.56	6.37
12	48177-7	F26812.D	08/30/02	19:36	1.91	7.47	1.56	6.37
13	48177-8	F26813.D	08/30/02	19:47	1.91	7.47	1.56	6.37
14	48177-9	F26814.D	08/30/02	19:59	1.91	7.47	1.56	6.37
15	48177-10	F26815.D	08/30/02	20:10	1.91	7.47	1.57	6.37
16	48177-11	F26816.D	08/30/02	21:26	1.92	7.49	1.57	6.39
17	48177-12	F26817.D	08/30/02	21:38	1.91	7.48	1.57	6.38
18	48177-13	F26818.D	08/30/02	21:49	1.91	7.48	1.57	6.38
19	ZZZZZ	F26819.D	08/30/02	22:01	1.91	7.48	1.57	6.38
20	48177-15	F26820.D	08/30/02	22:13	1.91	7.47	1.57	6.38
21	48177-16	F26821.D	08/30/02	22:24	1.91	7.47	1.56	6.38
22	48177-17	F26822.D	08/30/02	22:36	1.91	7.47	1.56	6.37
23	48177-17 MS	F26823.D	08/30/02	22:47	1.91	7.47	1.56	6.37
24	48177-17 MSD	F26824.D	08/30/02	22:58	1.91	7.47	1.56	6.37
25	48177-18	F26825.D	08/30/02	23:10	1.91	7.47	1.56	6.37
26	48177-19	F26826.D	08/30/02	23:21	1.91	7.47	1.56	6.37
27	P2695 16/60 0.5	F26827.D	08/30/02	23:33	1.91	7.47	1.56	6.38
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analytics environmental laboratory LLC

PCB SOIL
SYSTEM MONITORING COMPOUND RETENTION TIME SUMMARY

Quote#:

SDG: 48177

Project No: CTO 33

Site ID: PCB Soil C/U Bldg 335

Location: Topsham, ME

GC Columns: RTX-CLPesticidesI
RTX-CLPesticidesII

ID: 0.53(mm)

Instrument ID: E

Date Analyzed: 8/30/02
Time Analyzed: 23:33

Lab File ID (Standard) : F26827

	COLUMN #1		COLUMN #1	
	SMC1	SMC 2	SMC1	SMC 2
PESTICIDE STANDARD	1.91	7.47	1.56	6.38
UPPER LIMIT	1.94	7.51	1.59	6.42
LOWER LIMIT	1.88	7.43	1.53	6.34

	SAMPLE ID	LAB FILE ID	DATE	TIME	COLUMN #1 SMC1 #	COLUMN #1 SMC 2 #	COLUMN #2 SMC1 #	COLUMN #2 SMC 2 #
01	P2695 16/60 0.5	F26827.D	08/30/02	23:33	1.91	7.47	1.56	6.38
02	ZZZZZ	F26828.D	08/31/02	0:54	1.93	7.5	1.57	6.39
03	48177-14 1:20	F26829.D	08/31/02	1:12	1.93	7.49	1.57	6.39
04	P2695 16/60 0.5	F26830.D	08/31/02	1:24	1.91	7.48	1.57	6.38
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analytics environmental laboratory LLC

195 Commerce Way Suite E
Portsmouth, NH 03801
Phone (603) 436-5111
Fax (603) 430-2151

For Analytics Use Only Rev 6/02

Samples were:
1) Shipped or hand-delivered
2) Temp blank °C 3°C
3) Received in good condition (Y) or N
4) pH checked by: N/A
5) Labels checked by: SL

Project#: CTO 33 Proj. Name: PCB Soil C/U; Bldg. 335
Company: Foster Wheeler Env. Co
Contact: Dan Sullivan
Address: Kittery Maine
Phone: PO# Quote #
Sampler (Signature): Rich Goldbeck

Matrix Key:
WW=Wastewater
SW=Surfacewater
GW=Groundwater
DW=Drinkingwater
S=Soil/Sludge
O=Oil
E=Extract
X=Other

Container Key
P=plastic G=glass

Station Identification	Sample Date	Sample Time	Analysis	Preservation: Unpres	4°C	HNO3	H2SO4	HCL	Methanol	Other	Matrix	Container number/type		pH	Analytics Sample #
CS-4-7-WBS	8-29-02	1610	PCB								Soil	1	G		48177-1
CS-4-7-WSW-1		1620										1	G		-2
CS-4-7-NSW-1		1630										1	G		-3
CS-4-7-SSW-1		1640										1	G		-4
CS-7-7-SBS		1650										1	G		-5
CS-7-7-WSW-1		1700										1	G		-6
CS-7-7-SSW-1		1705										1	G		-7
CS-7-7-ESW-1		1715										1	G		-8
CS-9-7-BS		1720										1	G		-9
CS-9-7-ESW-1	8-30-02	0810	PCB									1	G		-10
CS-6-7-BS		0820										1	G		-11
CS-2-7-BS-1		0830										1	G		-12

FAX RESULTS? YES NO
Fax #
Turnaround Request
Standard ☐ Priority ☑
Due Date Due Date 24 Hr

Comments / Instructions:

Received By: Time: 1200 Date: 8-30-02
Received By: Time: Date:
Received By: Time: Date:
Relinquished By Sampler: Rich Goldbeck
Relinquished By:
Relinquished By:

Page 1 of 2

AEL environmental laboratory LLC
195 Commerce Way Suite E
Portsmouth, NH 03801
Phone (603) 436-5111
Fax (603) 430-2151

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Samples were:
1) Shipped or hand-delivered
2) Temp blank °C 3°C
3) Received in good condition Y or N
4) pH checked by: N/A
5) Labels checked by: [illegible]

Project: B 33 Proj. Name: PCB Soil C/21; Bldg 335
Company: Foster Wheeler Env. Co
Contact: Dan Sullivan
Address: Kittery Maine
Phone: PO# Quote #
Sampler (Signature): Rick Goldsmith

Matrix Key:
WW=Wastewater
SW=Surfacewater
GW=Groundwater
DW=Drinkingwater
S=Soil/Sludge
O=Oil
E=Extract
X=Other

Container Key
P=plastic G=glass

Station Identification	Sample Date	Sample Time	Analysis	Unpres	4o C	HNO3	H2SO4	HCL	Methanol	Other	Matrix	Container number/type		pH	Analytics Sample #
'S-2-7-BS-2	8-30-02	0835	PCB								Soil	1	G		48177-13
'S-3-7-BS-1		0845										1	G		-14
'S-2-7-WSW-2		0855										1	G		-15
'S-2-7-WSW-1		0910										1	G		-16
'S-6-7-ESW-1		0950										1	G		-17
'S-6-7-ESW-2		1000										1	G		-18
'S-9-7-ESW-2		1015										1	G		-19

Received By: [illegible] Time: 1200 Date: 8-30-02
Received By: Time: Date:
Received By: Time: Date:

Relinquished By Sampler: Rick Goldsmith
Relinquished By:
Relinquished By:

AX RESULTS? YES NO
ax #
Turnaround Request
tandard ☐ Priority ☑
ue Date Due Date 24hr

Comments / Instructions:

Page 2 of 2

Round 4

analytics environmental laboratory LLC

195 Commerce Way Suite E
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800-929-9906
analytics@analyticslab.com

September 13, 2002

Mr Dan Sullivan
Foster Wheeler Environmental Corporation
P.O. Box 660
Kittery, ME 03904

RE: Analytical Results Case Narrative
Analytics # 48187
Navy - FWEC Project # CTO-33
BLDG 335 PCB SOIL

Dear Mr. Sullivan;

Enclosed please find the analytical results for samples submitted for the above-mentioned project. The attached Cover Page lists the sample IDs, Lab tracking numbers and collection dates for the samples included in this deliverable.

The samples were analyzed for PCBs according to EPA Method 8082. Unless otherwise noted in the Non-conformance Summary listed below, all of the quality control (QC) criteria including initial calibration, calibration verification, surrogate recovery, holding time and method accuracy/precision for these analyses were within acceptable limits.

This Level 3 data package has been assembled in the following order:

Case Narrative/Non-Conformance Summary
- Sample Log Sheet - Cover Page
- PCB Form 1 Data Sheet for Samples and Blanks
  - Chromatograms
- PCB Form 10 Confirmation Results Form (if required)
- PCB Form 2 Surrogate Recoveries
- PCB Form 3 MS/MSD (LCS) Recoveries
- PCB Form 4 Method Blank Summary (equiv.) GC/MS Logbook Sheets
- PCB Form 5 DDT Breakdown Summaries
- PCB Form 6 Initial Calibration Data
- PCB Form 7 Continuing Calibration Check
- PCB Form 8 System Monitoring Compound RT Summary
- Chain of Custody (COC) Forms and Sample Receipt Checklist

QC NON CONFORMANCE SUMMARY

Sample Receipt:
No QC deviations.

PCBs by EPA Method 8082:
The MS/MSD % recoveries for the spiked sample 48187-2 were above the limits for Aroclor 1260 (see Form 3). Aroclor 1254 was detected in the sample at 552 ug/kg . The MS/MSD results for Aroclor 1016 were in control as well as the LCS/LCSD results for both aroclors.

Sincerely,
ANALYTICS Environmental Laboratory, LLC

Stephen L. Knollmeyer
Laboratory Director

analytics environmental laboratory LLC

195 Commerce Way Suite E
Portsmouth, New Hampshire 03801
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800-929-9906
analytics@analyticslab.com

Mr. Dan Sullivan
Foster Wheeler Environmental Corp.
P.O. Box 660
Kittery ME 03904

Report Number: 48187

Revision: Rev. 0

Re: BLDG. 335; PCB SOIL **CTO 33**

Enclosed are the results of the analyses on your sample(s). Samples were received on 03 September 2002 and analyzed for the tests listed below. Samples were received in acceptable condition, with the exceptions noted below or on the chain of custody. The results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report. Please see individual reports for specific methodologies and references.

Lab Number	Sample Date	Station Location	Analysis	Comments
48187-1	09/03/02	CS-3-8-BS-2	EPA 8082 (PCBs only)	
48187-2	09/03/02	CS-3-8-ESW-1	EPA 8082 (PCBs only)	

Sample Receipt Exceptions: None

Analytics Environmental Laboratory is certified by the states of New Hampshire, Maine, Massachusetts, Connecticut, Rhode Island, North Carolina and is validated by the U.S. Army Corps of Engineers (MRD) and U.S. Navy (NFESC). A list of actual certified parameters is available upon request.

If you have any further question on the analytical methods or these results, do not hesitate to call.

Authorized signature _____
Stephen L. Knollmeyer Lab. Director

Date 9/4/2002

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analytics environmental laboratory LLC

195 Commerce Way
Portsmouth, New Hampshire 03801
603-436-5111 Fax 603-430-2151
800-929-9906

Mr. Dan Sullivan
Foster Wheeler Environmental Corp.
P.O. Box 660
Kittery ME 03904

September 13, 2002

SAMPLE DATA

CLIENT SAMPLE ID

Project Name: BLDG. 335; PCB SOIL

Project Number: CTO 33

Field Sample ID: LABQC

Lab Sample ID: B09032PAS
Matrix: Solid
Percent Solid: 100
Dilution Factor: 1
Collection Date:
Lab Receipt Date:
Extraction Date: 09/03/02
Analysis Date: 09/04/02

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/kg	Results µg/kg
PCB-1016	15	U
PCB-1221	15	U
PCB-1232	15	U
PCB-1242	15	U
PCB-1248	15	U
PCB-1254	15	U
PCB-1260	15	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	105	%
Decachlorobiphenyl	96	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3545.

COMMENTS: Results are expressed on a dry weight basis.

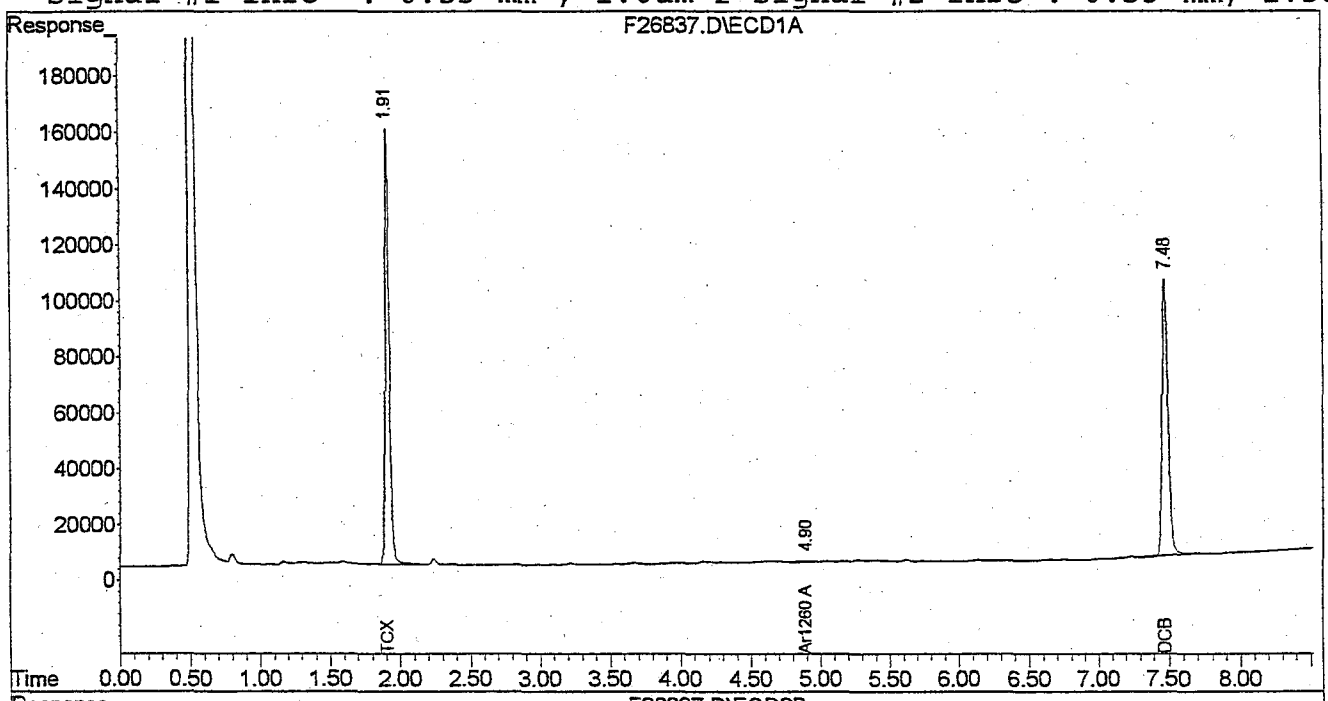
PCB Report

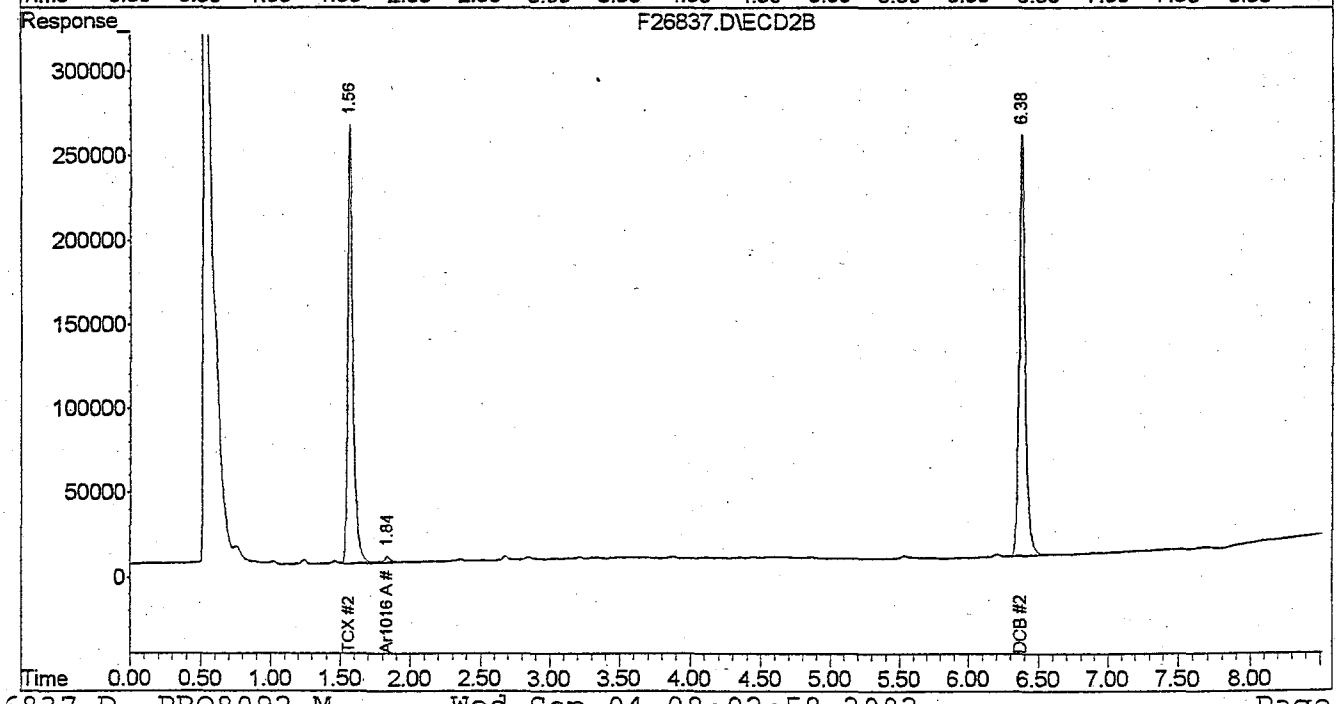
Authorized signature

Signal #1 : D:\HPCHEM\2\DATA\090302-F\F26837.D\ECD1A.CH Vial: 7
Signal #2 : D:\HPCHEM\2\DATA\090302-F\F26837.D\ECD2B.CH
Acq On : 4 Sep 2002 1:14 am Operator:
Sample : B09032PAS Inst : Instrume
Misc : SOIL Multiplr: 1.00
IntFile Signal #1: PCBINT.E IntFile Signal #2: PCBINT2.E
Quant Time: Sep 4 8:02 2002 Quant Results File: PBQ8092.RES

Quant Method : D:\HPCHEM\2\METHODS\PBQ8092.M (Chemstation Integrator)
Title : Aroclor 1016/1260
Last Update : Fri Aug 30 16:51:30 2002
Response via : Multiple Level Calibration
DataAcq Meth : PCB.M

Volume Inj. : 3 ul
Signal #1 Phase : DB-1701 Widebore Signal #2 Phase: DB-5 Widebore
Signal #1 Info : 0.53 mm , 1.0um f Signal #2 Info : 0.53 mm, 1.5um fil





analytics environmental laboratory LLC

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800-929-9906

Mr. Dan Sullivan
Foster Wheeler Environmental Corp.
P.O. Box 660
Kittery ME 03904

September 4, 2002

SAMPLE DATA

CLIENT SAMPLE ID

Project Name: BLDG. 335; PCB SOIL

Project Number: CTO 33

Field Sample ID: CS-3-8-BS-2

Lab Sample ID: 48187-1
Matrix: Solid
Percent Solid: 73
Dilution Factor: 1.3
Collection Date: 09/03/02
Lab Receipt Date: 09/03/02
Extraction Date: 09/03/02
Analysis Date: 09/04/02

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/kg	Results µg/kg
PCB-1016	20	U
PCB-1221	20	U
PCB-1232	20	U
PCB-1242	20	U
PCB-1248	20	U
PCB-1254	20	U
PCB-1260	20	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	82	%
Decachlorobiphenyl	75	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3545.

COMMENTS: Results are expressed on a dry weight basis.

PCB Report

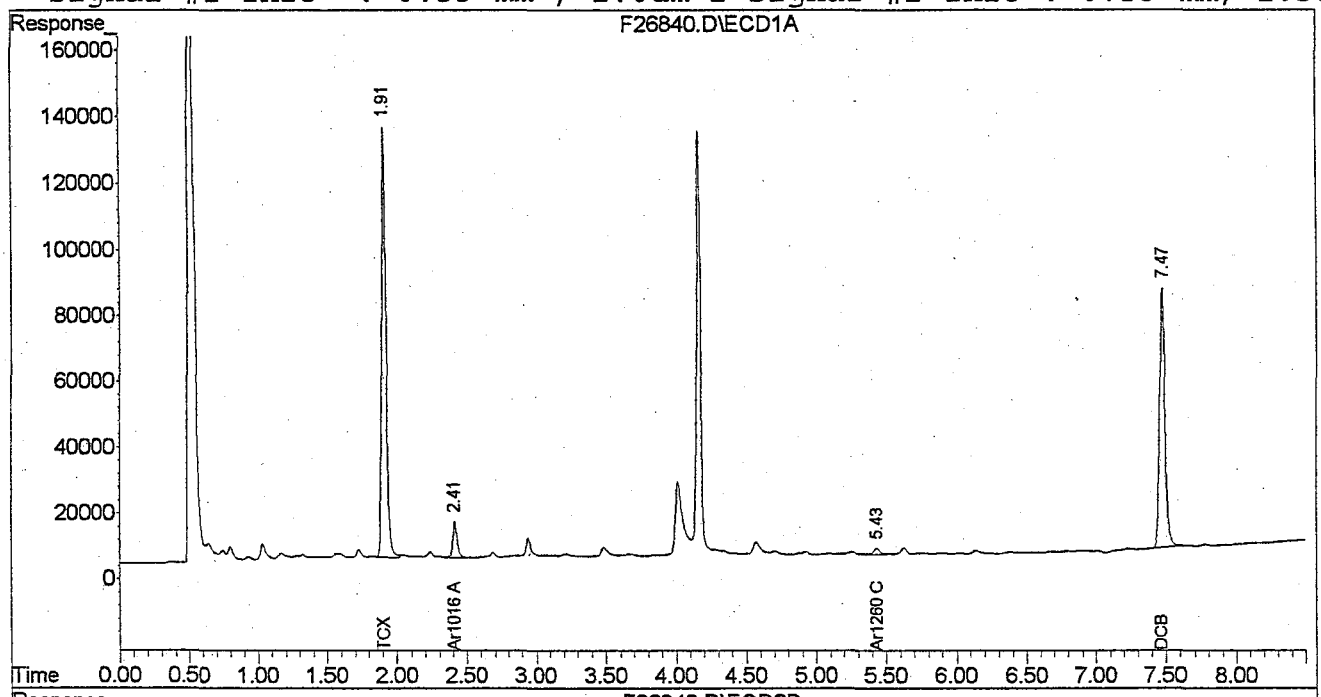
Authorized signature

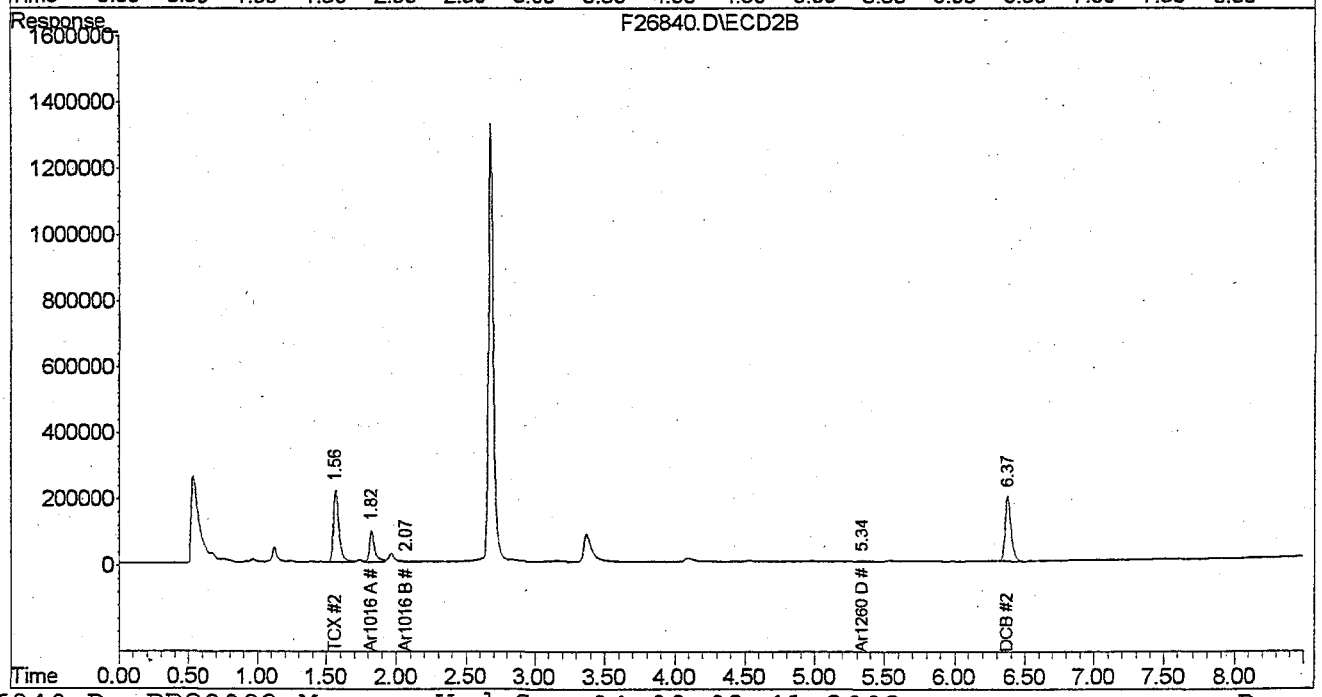
Quantitation Report (Not Reviewed)

Signal #1 : D:\HPCHEM\2\DATA\090302-F\F26840.D\ECD1A.CH Vial: 10
Signal #2 : D:\HPCHEM\2\DATA\090302-F\F26840.D\ECD2B.CH
Acq On : 4 Sep 2002 1:49 am Operator:
Sample : 48187-1 Inst : Instrume
Misc : SOIL Multiplr: 1.00
IntFile Signal #1: PCBINT.E IntFile Signal #2: PCBINT2.E
Quant Time: Sep 4 8:03 2002 Quant Results File: PBQ8092.RES

Quant Method : D:\HPCHEM\2\METHODS\PBQ8092.M (Chemstation Integrator)
Title : Aroclor 1016/1260
Last Update : Fri Aug 30 16:51:30 2002
Response via : Multiple Level Calibration
DataAcq Meth : PCB.M

Volume Inj. : 3 ul
Signal #1 Phase : DB-1701 Widebore Signal #2 Phase: DB-5 Widebore
Signal #1 Info : 0.53 mm , 1.0um f Signal #2 Info : 0.53 mm, 1.5um fil





analytics environmental laboratory LLC

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800-929-9906

Mr. Dan Sullivan
Foster Wheeler Environmental Corp.
P.O. Box 660
Kittery ME 03904

September 4, 2002

SAMPLE DATA

Lab Sample ID:	48187-2
Matrix:	Solid
Percent Solid:	83
Dilution Factor:	1.2
Collection Date:	09/03/02
Lab Receipt Date:	09/03/02
Extraction Date:	09/03/02
Analysis Date:	09/04/02

CLIENT SAMPLE ID

Project Name:	BLDG. 335; PCB SOIL
Project Number:	CTO 33
Field Sample ID:	CS-3-8-ESW-1

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/kg	Results µg/kg
PCB-1016	18	U
PCB-1221	18	U
PCB-1232	18	U
PCB-1242	18	U
PCB-1248	18	U
PCB-1254	18	**552**
PCB-1260	18	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	88	%
Decachlorobiphenyl	87	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

COMMENTS: Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3545. Results are expressed on a dry weight basis.

PCB Report

Authorized signature

analytics environmental laboratory LLC

PCB CONFIRMATION RESULTS

Quote#:

SDG: 48187

Project No: CTO 33

Site ID: Bldg 335 PCB Soil

Location: Topsham, ME

Instrument ID: F

GC Columns: RTX-CLPesticidesI
RTX-CLPesticidesII

ID: 0.53(mm)

Sample ID: 48187-2

COMPOUND	RESPONSE #1 (ug/kg)	RESPONSE #2 (ug/kg)	DIFFERENCE %	#	% DIFFERENCE Acceptance Limit
PCB 1254	552	590	7		40

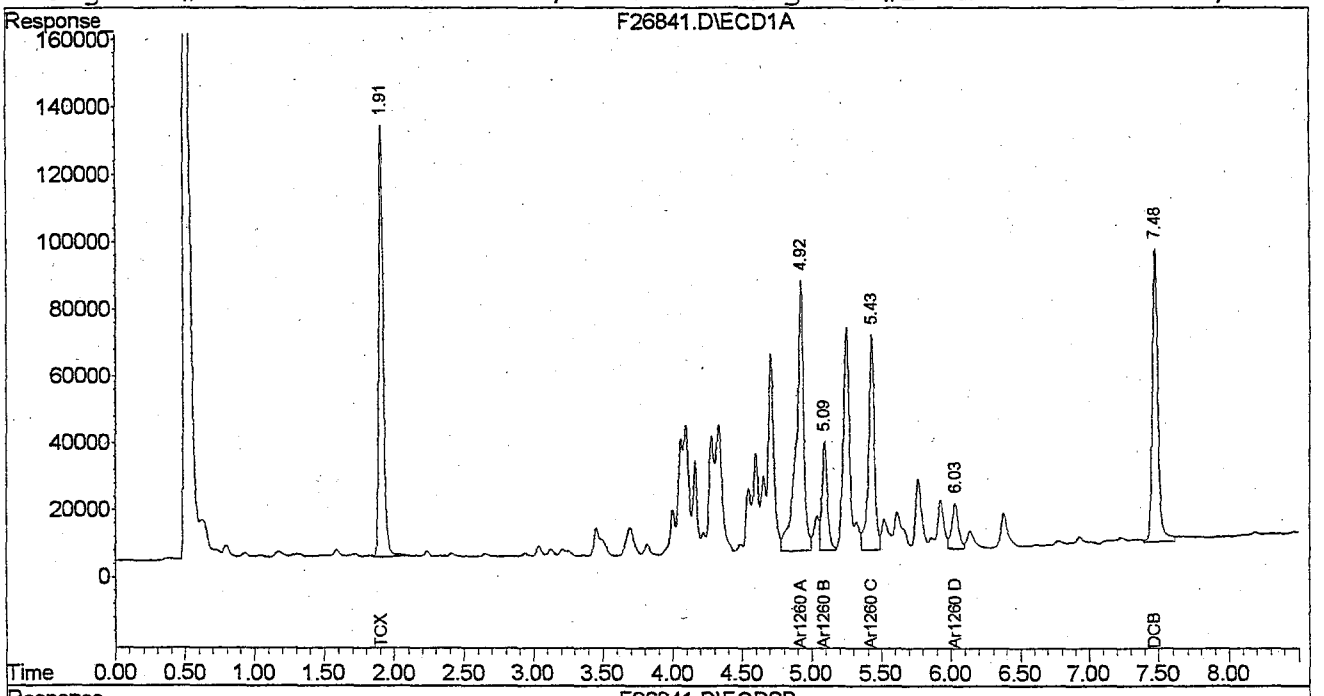
Column to be used to flag % Difference with an asterisk

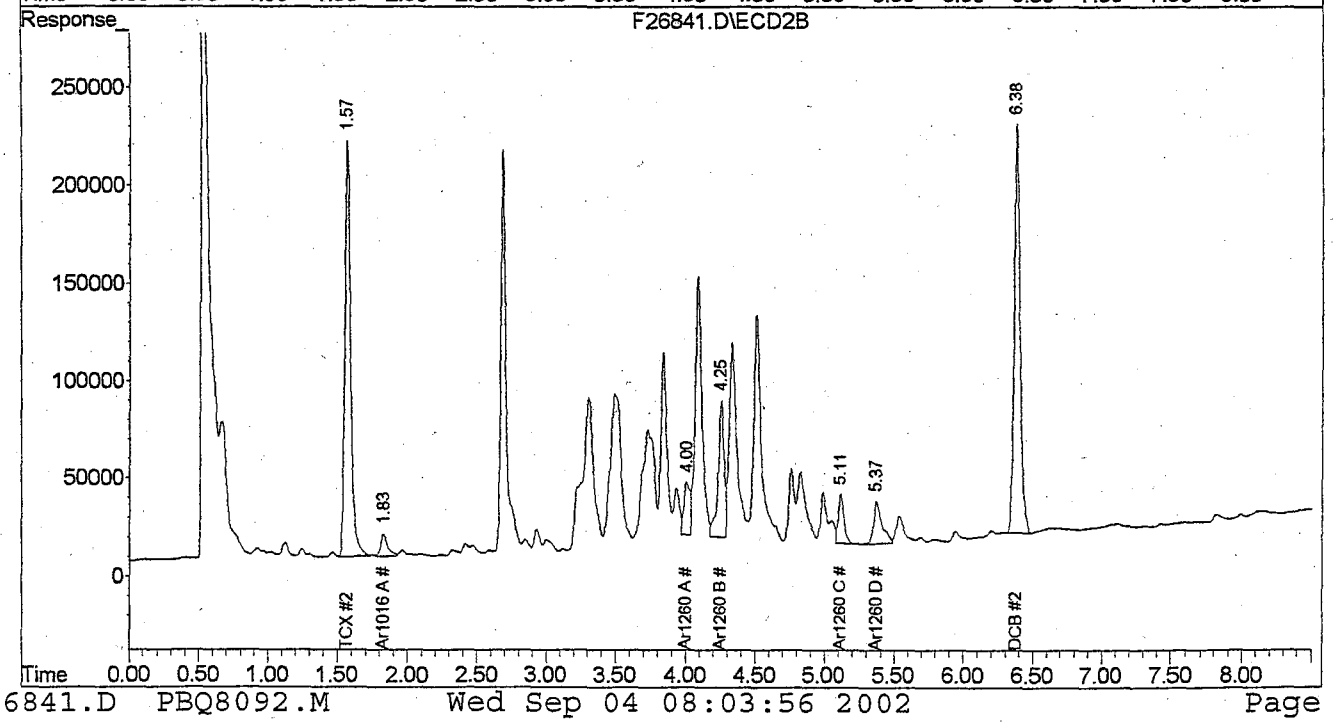
* Values outside of QC limits

Signal #1 : D:\HPCHEM\2\DATA\090302-F\F26841.D\ECD1A.CH Vial: 11
Signal #2 : D:\HPCHEM\2\DATA\090302-F\F26841.D\ECD2B.CH
Acq On : 4 Sep 2002 2:00 am Operator:
Sample : 48187-2 Inst : Instrume
Misc : SOIL Multiplr: 1.00
IntFile Signal #1: PCBINT.E IntFile Signal #2: PCBINT2.E
Quant Time: Sep 4 8:03 2002 Quant Results File: PBQ8092.RES

Quant Method : D:\HPCHEM\2\METHODS\PBQ8092.M (Chemstation Integrator)
Title : Aroclor 1016/1260
Last Update : Fri Aug 30 16:51:30 2002
Response via : Multiple Level Calibration
DataAcq Meth : PCB.M

Volume Inj. : 3 ul
Signal #1 Phase : DB-1701 Widebore Signal #2 Phase: DB-5 Widebore
Signal #1 Info : 0.53 mm , 1.0um f Signal #2 Info : 0.53 mm, 1.5um fil





analytics environmental laboratory LLC

PCB SOLID
SYSTEM MONITORING COMPOUND RECOVERY

Project #: CTO 33 Quote #: SDG#: 48187

Site ID: Bldg 335: PCB Soil Location: Topsham, ME

Instrument ID: F

GC Column: RTX-CLPesticides I ID: 0.53(mm)
RTX-CLPesticides II

	SAMPLE ID	COLUMN #1 SMC1	#	COLUMN #1 SMC2	#	COLUMN #2 SMC1	#	COLUMN #2 SMC2	#	TOT OUT	#
01	ZZZZZ	NA		NA		NA		NA		0	
02	P2692 16/60 0.02	NA		NA		NA		NA		0	
03	P2693 16/60 0.05	NA		NA		NA		NA		0	
04	P2694 16/60 0.1	NA		NA		NA		NA		0	
05	P2695 16/60 0.5	111		109		122		131		0	
06	P2696 16/60 1.0	NA		NA		NA		NA		0	
07	ZZZZZ	NA		NA		NA		NA		0	
08	P2677 1221 1.0	NA		NA		NA		NA		0	
09	P2678 1232 1.0	NA		NA		NA		NA		0	
10	P2679 1242 1.0	NA		NA		NA		NA		0	
11	P2682 1248 1.0	NA		NA		NA		NA		0	
12	P2680 1254 1.0	NA		NA		NA		NA		0	
13	ZZZZZ	102		105		112		100		0	
14	ZZZZZ	NA		NA		NA		NA		0	
15	ZZZZZ	98		109		90		99		0	
16	ZZZZZ	98		108		94		98		0	
17	ZZZZZ	91		99		86		91		0	
18	ZZZZZ	82		86		80		83		0	
19	ZZZZZ	85		100		84		95		0	
20	ZZZZZ	85		100		97		96		0	
21	ZZZZZ	85		90		83		89		0	
22	ZZZZZ	72		84		71		82		0	
23	ZZZZZ	79		94		76		90		0	
24	ZZZZZ	80		81		65		68		0	
25	ZZZZZ	73		85		67		77		0	
26	ZZZZZ	80		92		77		89		0	
27	ZZZZZ	81		95		77		86		0	
28	ZZZZZ	75		89		72		80		0	
29	ZZZZZ	80		89		76		83		0	
30	ZZZZZ	86		97		81		94		0	
31	P2695 16/60 0.5	107		108		105		107		0	
32											
33											
34											
35											

SMC1 = TCX 49-134
SMC2 = DCB 69-155

Column to be used to flag recovery values
* Values outside of protocol required QC limits
D System Monitoring Compound diluted out

analytics environmental laboratory LLC

PCB SOLID
SYSTEM MONITORING COMPOUND RECOVERY

Project #: CTO 33 Quote #: SDG#: 48187

Site ID: Bldg 335: PCB Soil Location: Topsham, ME

Instrument ID: F

GC Column: RTX-CLPesticides I ID: 0.53(mm)
RTX-CLPesticides II

		COLUMN #1				COLUMN #2				TOT	
	SAMPLE ID	SMC1	#	SMC2	#	SMC1	#	SMC2	#	OUT	#
01	P2695 16/60 0.5	110		101		98		95		0	
02	ZZZZZ	46	*	39	*	43	*	40	*	4	
03	ZZZZZ	47	*	40	*	43	*	41	*	4	
04	ZZZZZ	46	*	39	*	42	*	42	*	4	
05	ZZZZZ	46	*	39	*	41	*	42	*	4	
06	ZZZZZ	48	*	40	*	43	*	42	*	4	
07	B09032PAS	105		96		99		97		0	
08	L09032PAS	105		101		97		100		0	
09	LD09032PAS	106		103		100		100		0	
10	48187-1	82		75		77		72		0	
11	48187-2	88		87		82		78		0	
12	48187-2,MS	78		70		73		66	*	1	
13	48187-2,MSD	88		88		83		76		0	
14	ZZZZZ	93		88		82		87		0	
15	ZZZZZ	99		105		93		86		0	
16	P2695 16/60 0.5	107		104		101		92		0	
17											
18											
19											
20											
21											
22											
23											
24											
25											
26											
27											
28											
29											
30											
31											
32											
33											
34											
35											

SMC1 = TCX 49-134
SMC2 = DCB 69-155

Column to be used to flag recovery values
* Values outside of protocol required QC limits
D System Monitoring Compound diluted out

analytics environmental laboratory LLC

PCB SOLID
LABORATORY CONTROL SPIKE/ DUPLICATE
PERCENT RECOVERY

Project #: CTO 33 Quote #: SDG#: 48187

Site ID: Bldg 335; PCB Soil Location: Topsham, ME

Instrument ID: F

GC Column: RTX-CLPesticides I ID: 0.53(mm)

RTX-CLPesticides II

Laboratory Control Spike/Duplicate Sample ID: L09032PAS\LD09032PAS

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENTRATION (ug/kg)	LCS CONCENTRATION (ug/kg)	LCS RECOVERY % #	QC LIMITS % REC
PCB 1016	267	U	284	106	52-127
PCB 1260	267	U	279	104	68-159
PCB 1016 #2	267	U	273	102	57-131
PCB 1260 #2	267	U	263	99	56-139

COMPOUND	SPIKE ADDED (ug/kg)	LCSD CONCENTRATION (ug/kg)	LCSD % REC #	RPD #	QC LIMITS RPD	QC LIMITS % REC.
PCB 1016	267	290	109	2	50	52-127
PCB 1260	267	281	105	1	50	68-159
PCB 1016 #2	267	294	110	8	50	57-131
PCB 1260 #2	267	271	101	3	50	56-139

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits
RPD: 0 out of 4 outside limits
Spike Recovery:0 out of 8 outside limits

Comments: _____

analytics environmental laboratory LLC

PCB SOLID
MATRIX SPIKE/ DUPLICATE
PERCENT RECOVERY

Project #: CTO 33 Quote #: SDG#: 48187

Site ID: Bldg 335; PCB Soil Location: Topsham, ME

Instrument ID: F

GC Column: RTX-CLPesticides I ID: 0.53(mm)

RTX-CLPesticides II

Matrix Spike/Duplicate Sample ID: 48187-2

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENTRATION (ug/kg)	MS CONCENTRATION (ug/kg)	MS RECOVERY %	#	QC LIMITS % REC
PCB 1016	309	U	268	87		52-127
PCB 1260	309	U	1123	363	*	68-159
PCB 1016 #2	309	U	288	93		57-131
PCB 1260 #2	309	U	416	135		56-139

COMPOUND	SPIKE ADDED (ug/kg)	MSD CONCENTRATION (ug/kg)	MSD % REC	#	RPD	#	QC LIMITS RPD	QC LIMITS % REC.
PCB 1016	313	304	97		13		50	52-127
PCB 1260	313	1028	329	*	9		50	68-159
PCB 1016 #2	313	332	106		14		50	57-131
PCB 1260 #2	313	392	125		6		50	56-139

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits
RPD: 0 out of 4 outside limits
Spike Recovery: 2 out of 8 outside limits

Comments:

Load: See
Unload: _____

080902-F

Data File	Vial	Sample	Dil	Method	Comments
F26112	100	HEXANE		PB080892-M	
13	1	P2692 16/60 0.02			NOT USED
14	2	P2692 16/60 0.02			✓
15	2	P2693 16/60 0.05			✓
16	3	P2694 16/60 0.1			✓
17	4	P2695 16/60 0.5			✓
18	5	P2696 16/60 1.0			✓
19	6	P2598 16/60 cc			✓
20	7	P2677 1221 1.0			for 1 open lines
21	8	P2678 1232 1.0			
22	9	P2679 1242 1.0			
23	10	P2682 1248 1.0			
24	11	P2680 1254 1.0			
25	12	B080892PAS			✓
* 26A	13	L080892PASB			✓
27	14	L080892PASB			✓
28	15	48041-2			✓
29	16	-3			✓
30	17	-6			✓
31	18	-7			✓
32	19	-8			✓
33	20	-9			✓
34	21	-10			✓
35	22	-12			✓
36	23	-13			✓
37	24	-14			✓
38	25	-14 MS			E flag 1016
39	26	-14 MSD			1760 - OK
					fails 9

(CONT.)

* Pulled out, syringe stuck

[048/050]

PEST/PCB/HERB Instrument: F

090302-F

Load: AMR

Unload: [illegible]

Data File	Vial	Sample	Dil	Method	Comments
WS-F-090302-1-AMR					
F26831	1	P2695 16/60 0.5		PBQ8092.m	✓
32	2	B09032PW			✓
33	3	L09032PW			✓
34	4	LD09032PW			✓
35	5	48188-1 Wipe			✓
36	6	-2 ↓			✓
37	7	B09032PAS			✓
38	8	L09032PAS			✓
39	9	LD09032PAS			✓
40	10	48187-1			✓
41	11	-2			✓
42	12	-2,MS			1016 OK
43	13	-2,MSD			1260-1284 Interference.
44	14	48178-2			AMR A/C
45	1	P2695 16/60 0.8			NOT USED.
46	1	P2695 16/60 0.5			✓
47	15	48176-2			AMR 1:20 1242
48	1	P2695 16/60 0.5			1260 ↓. Sample not reported.
49	1	P2695 16/60 0.5			

9-4-02

analytics environmental laboratory LLC

PCB
INITIAL CALIBRATION DATA

Project #: CTO 33 Quote #: SDG#: 48187

Site ID: Bldg 335; PCB Soil Location: Topsham, ME

Instrument ID: F

GC Column: RTX-CLPesticides I ID: 0.53(mm)

RTX-CLPesticides II

Method Name: PBQ08092.M

Level 1 File Name	F26114.D
Level 2 File Name	F26115.D
Level 3 File Name	F26116.D
Level 4 File Name	F26117.D
Level 5 File Name	F26118.D

Compound	Calibration Fit	R
TCX	Linear	0.999
Ar1016 A	Linear	0.998
Ar1016 B	Linear	0.998
Ar1016 C	Linear	0.999
Ar1260 A	Linear	1.000
Ar1260 B	Linear	0.999
Ar1260 C	Linear	1.000
Ar1260 D	Linear	1.000
DCB	Linear	0.999
TCX #2	Linear	0.999
Ar1016 A #2	Linear	0.998
Ar1016 B #2	Linear	0.996
Ar1016 C #2	Linear	0.998
Ar1260 A #2	Linear	0.998
Ar1260 B #2	Linear	0.998
Ar1260 C #2	Linear	0.999
Ar1260 D #2	Linear	0.998
DCB #2	Linear	0.999

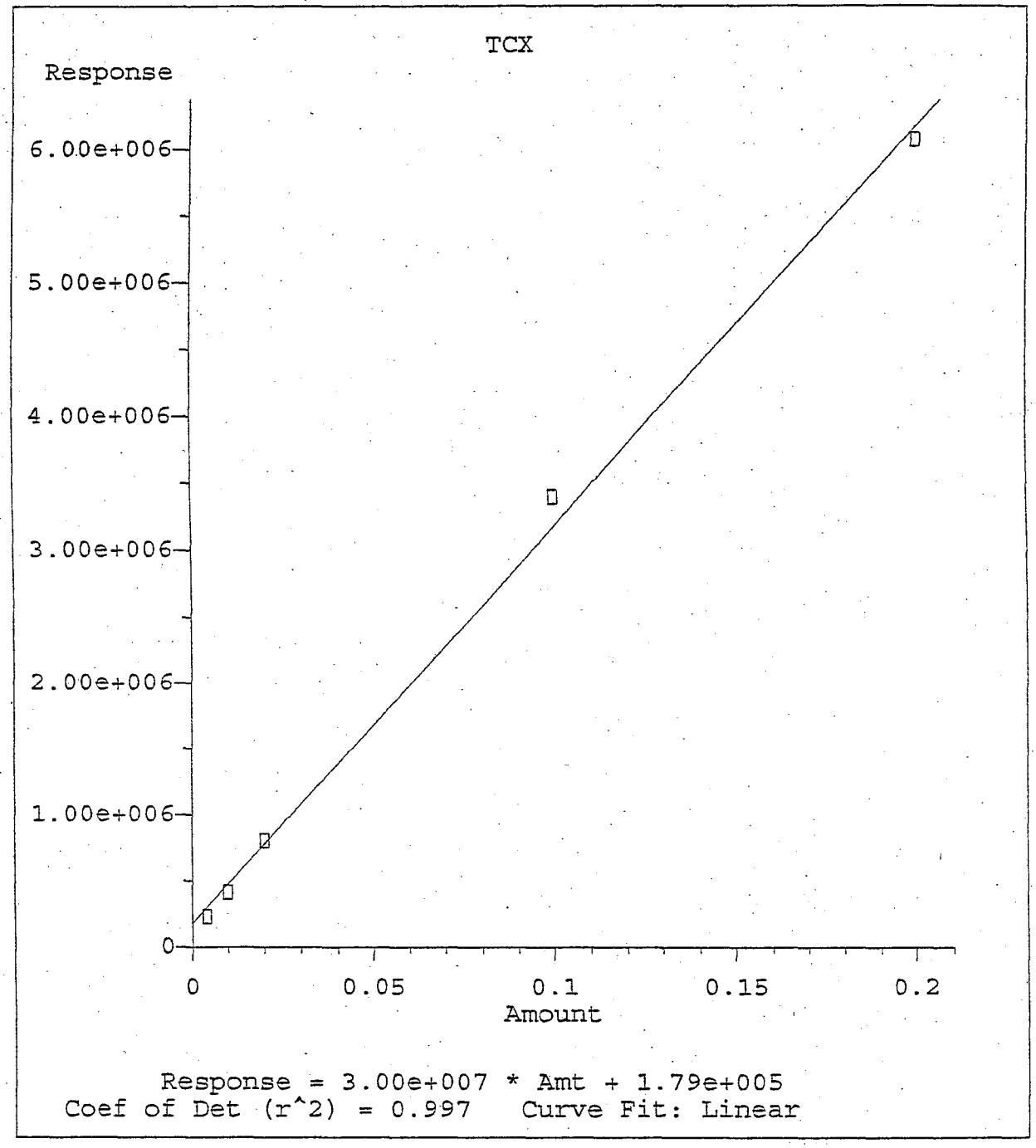
*Compounds must have a %RSD of ≤20% or correlation coefficient of 0.995 or greater.

Comments:

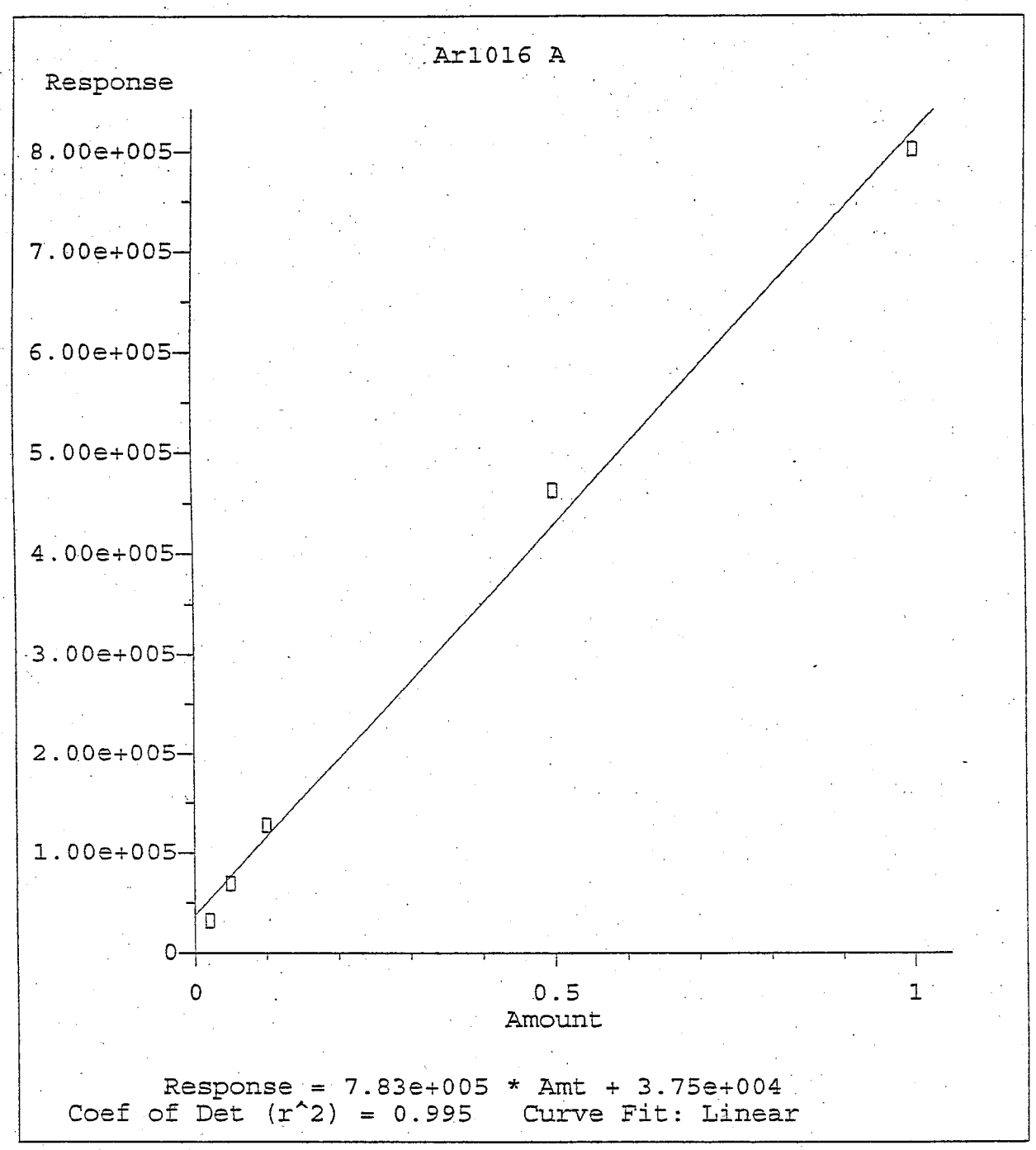
D:\HPCHEM\2\METHODS\PBQ8092.M

Level 1 File Name F26114.D
Level 2 File Name F26115.D
Level 3 File Name F26116.D
Level 4 File Name F26117.D
Level 5 File Name F26118.D

Name	Calibration Fit	R^2	R
TCX	Linear	0.997	0.999
Ar1016 A	Linear	0.995	0.998
Ar1016 B	Linear	0.995	0.998
Ar1016 C	Linear	0.997	0.999
Ar1260 A	Linear	0.999	1.000
Ar1260 B	Linear	0.999	0.999
Ar1260 C	Linear	0.999	1.000
Ar1260 D	Linear	0.999	1.000
DCB	Linear	0.999	0.999
TCX #2	Linear	0.997	0.999
Ar1016 A #2	Linear	0.997	0.998
Ar1016 B #2	Linear	0.992	0.996
Ar1016 C #2	Linear	0.995	0.998
Ar1260 A #2	Linear	0.997	0.998
Ar1260 B #2	Linear	0.997	0.998
Ar1260 C #2	Linear	0.998	0.999
Ar1260 D #2	Linear	0.997	0.998
DCB #2	Linear	0.998	0.999



Method Name: D:\HPCHEM\2\METHODS\PBQ8092.M
Calibration Table Last Updated: Mon Aug 12 13:21:28 2002



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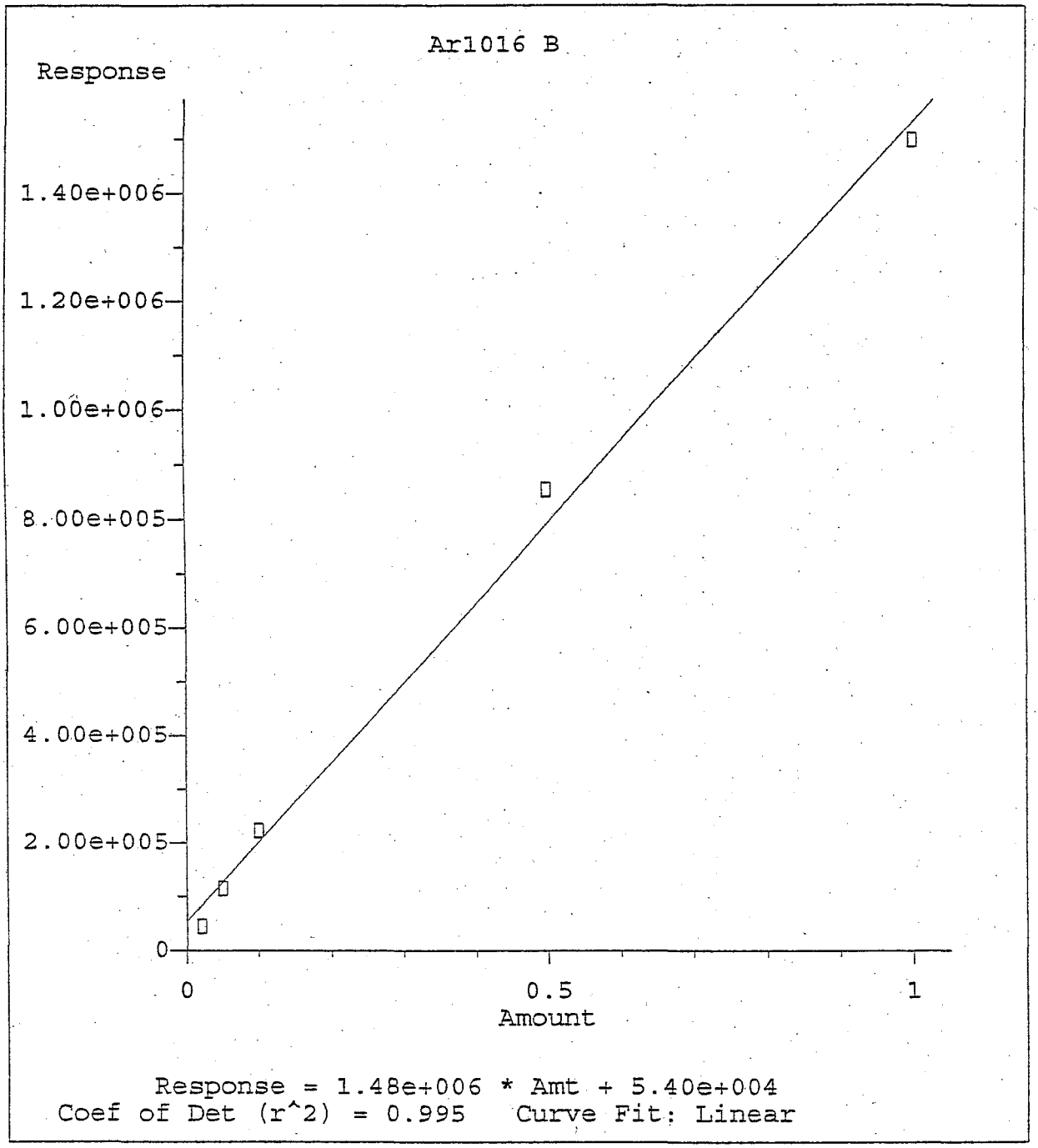
Calibration Table Last Updated: Mon Aug 12 13:21:28 2002



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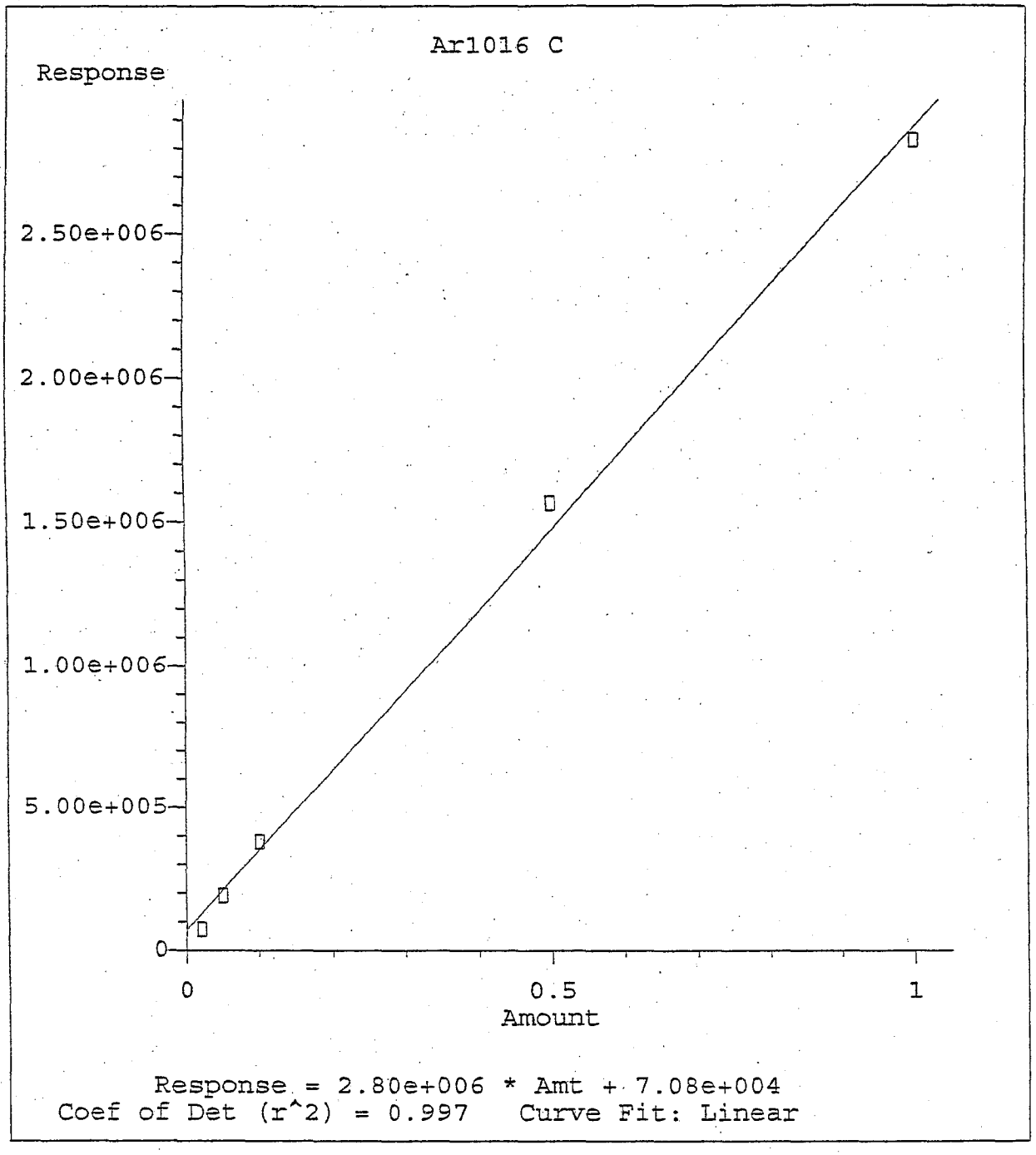

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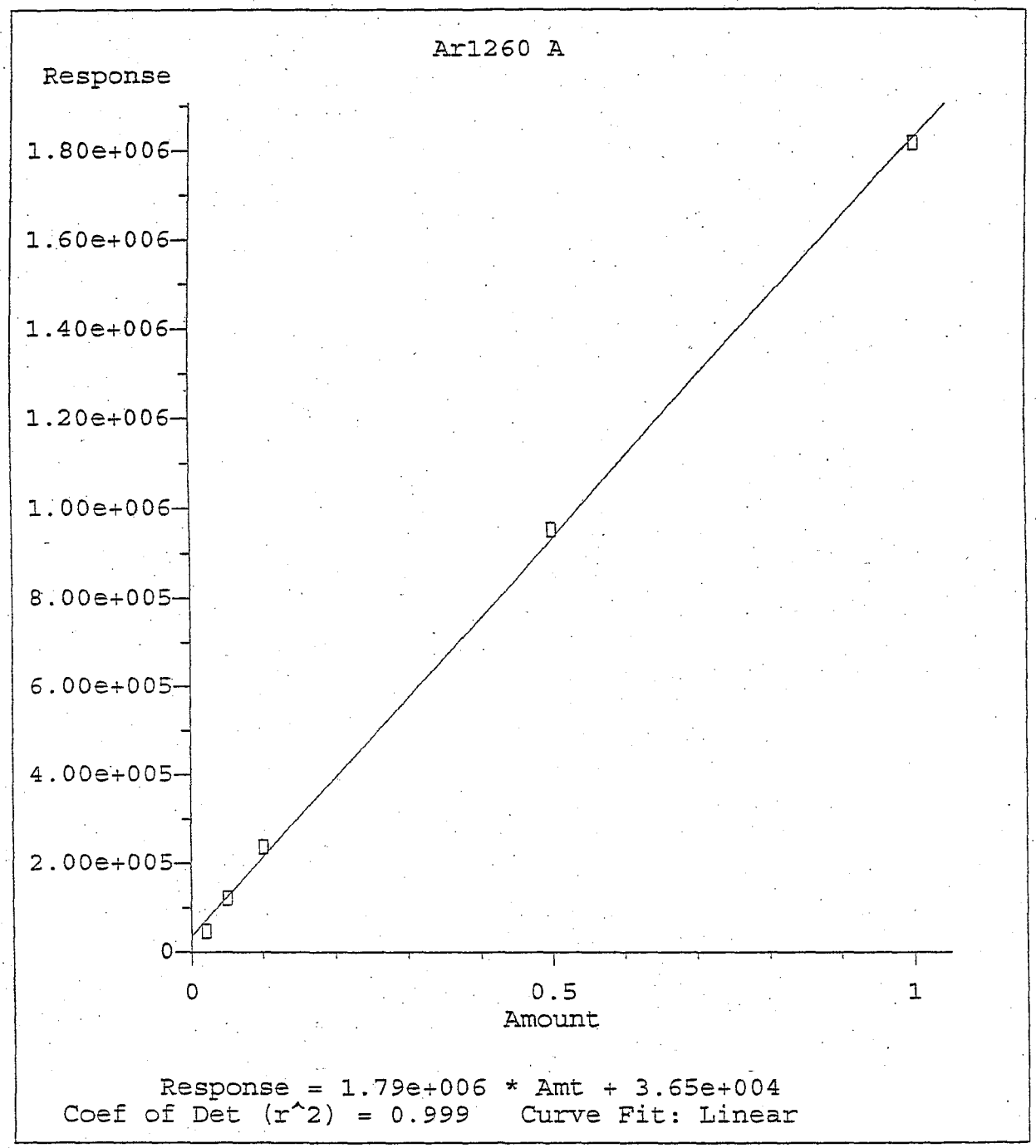

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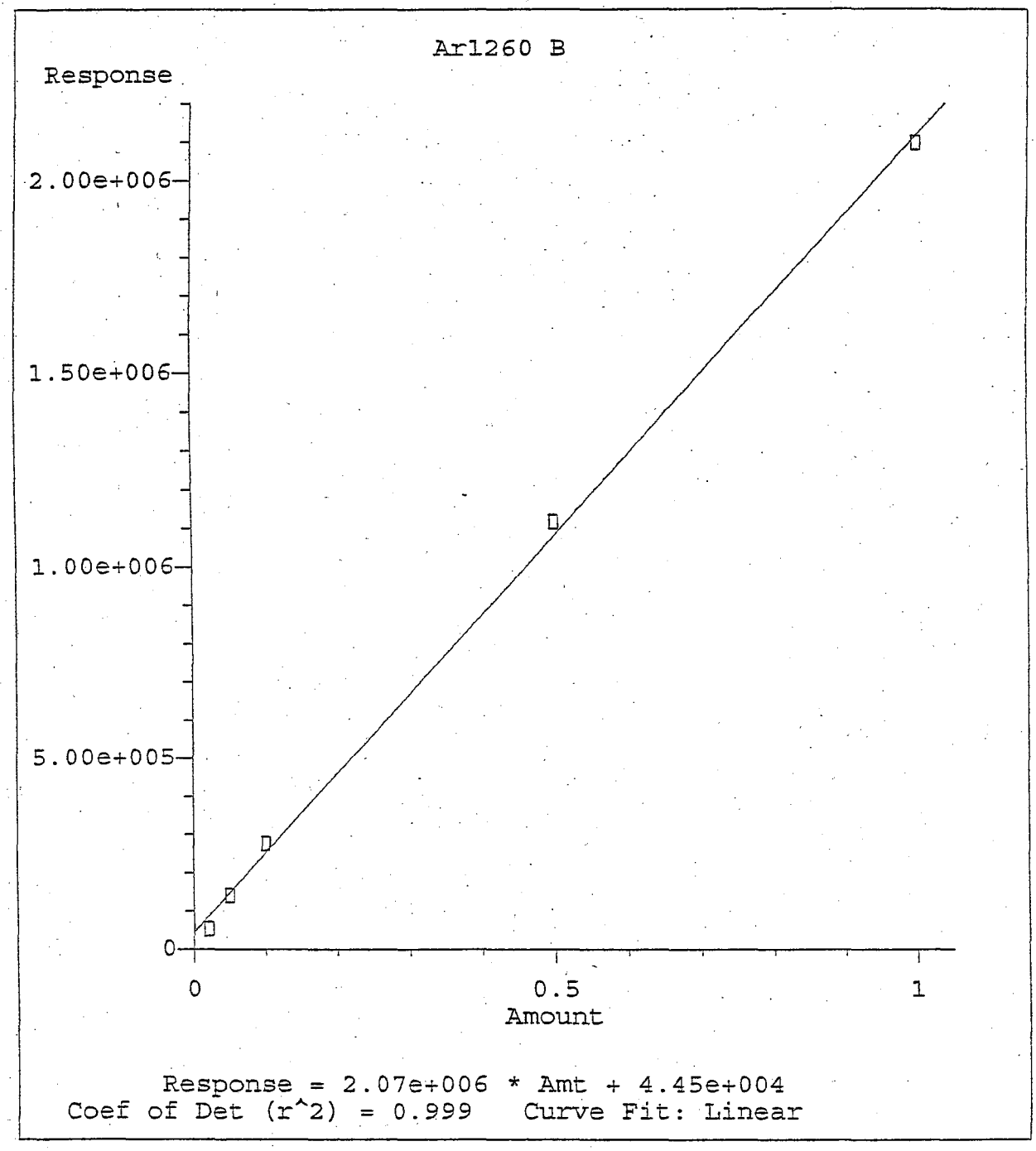
Calibration Table Last Updated: Mon Aug 12 13:21:28 2002



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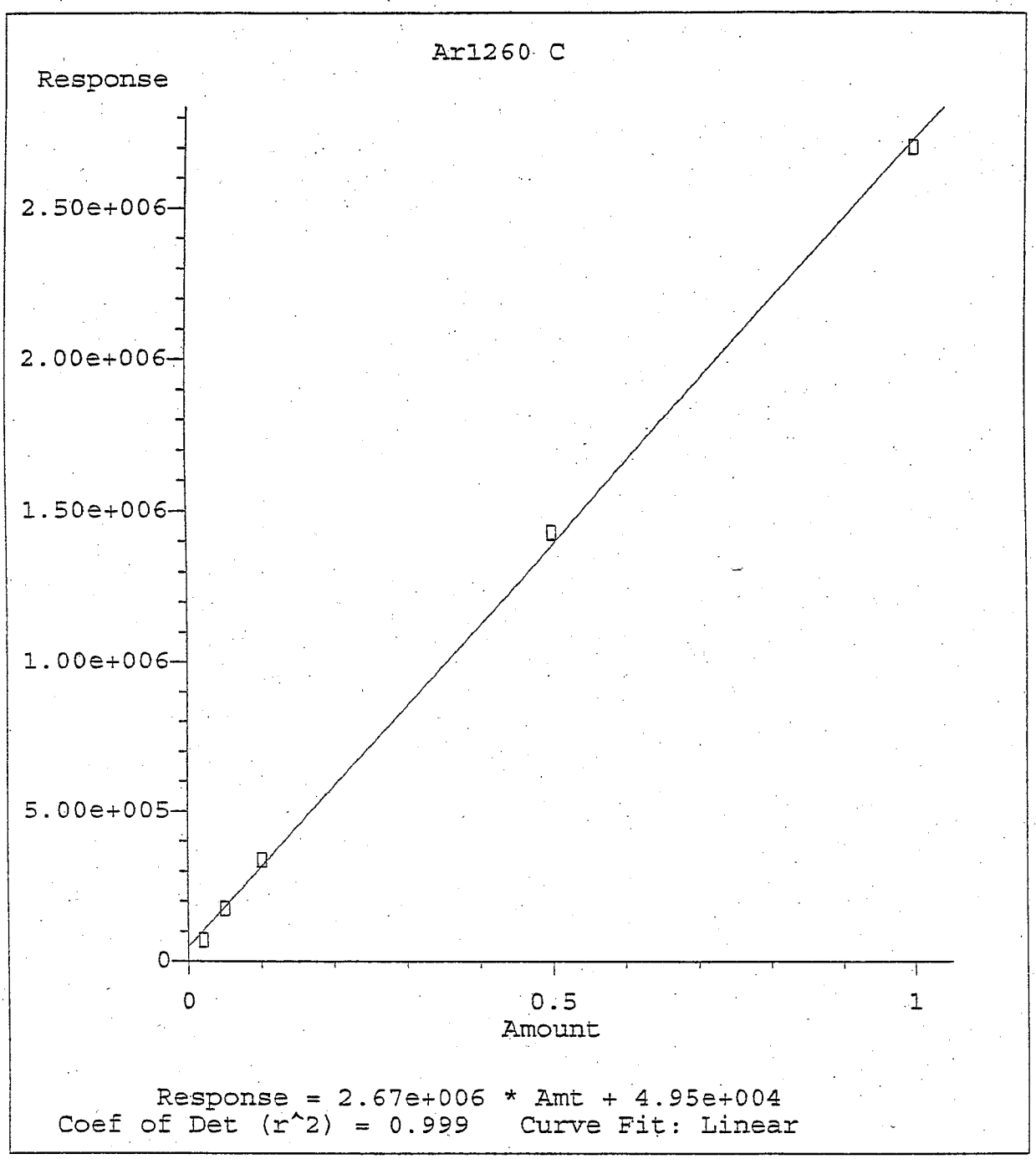

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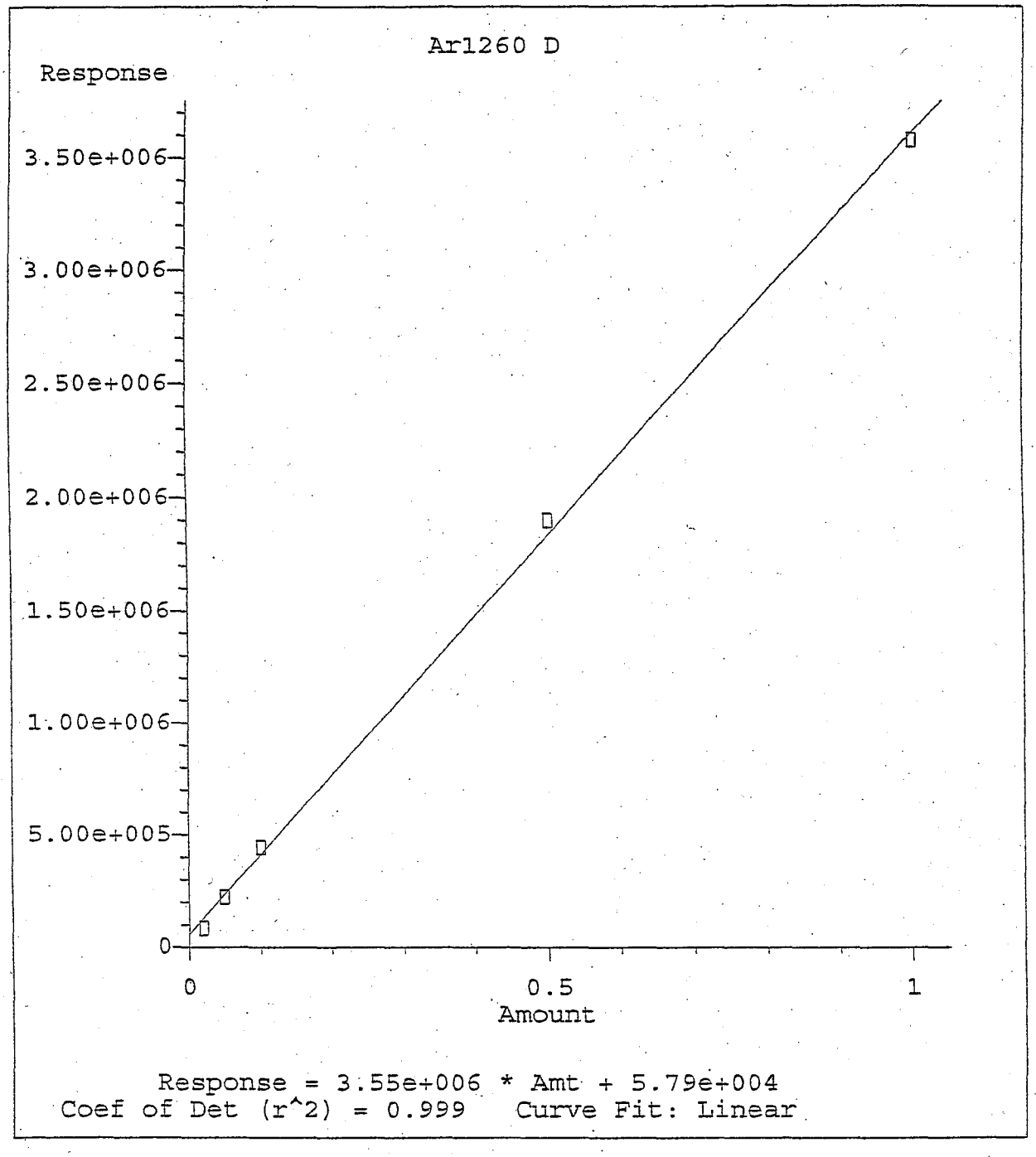

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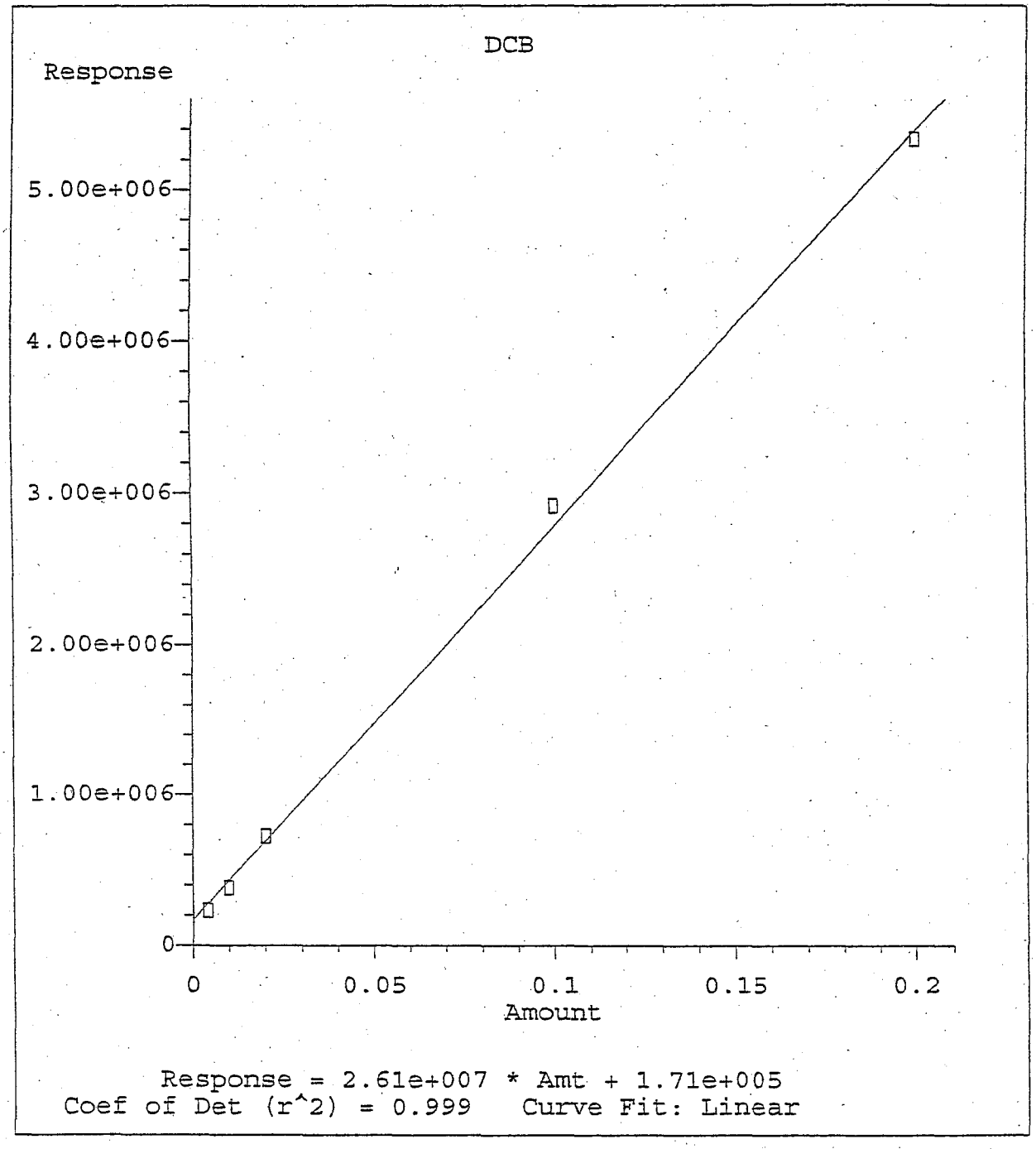

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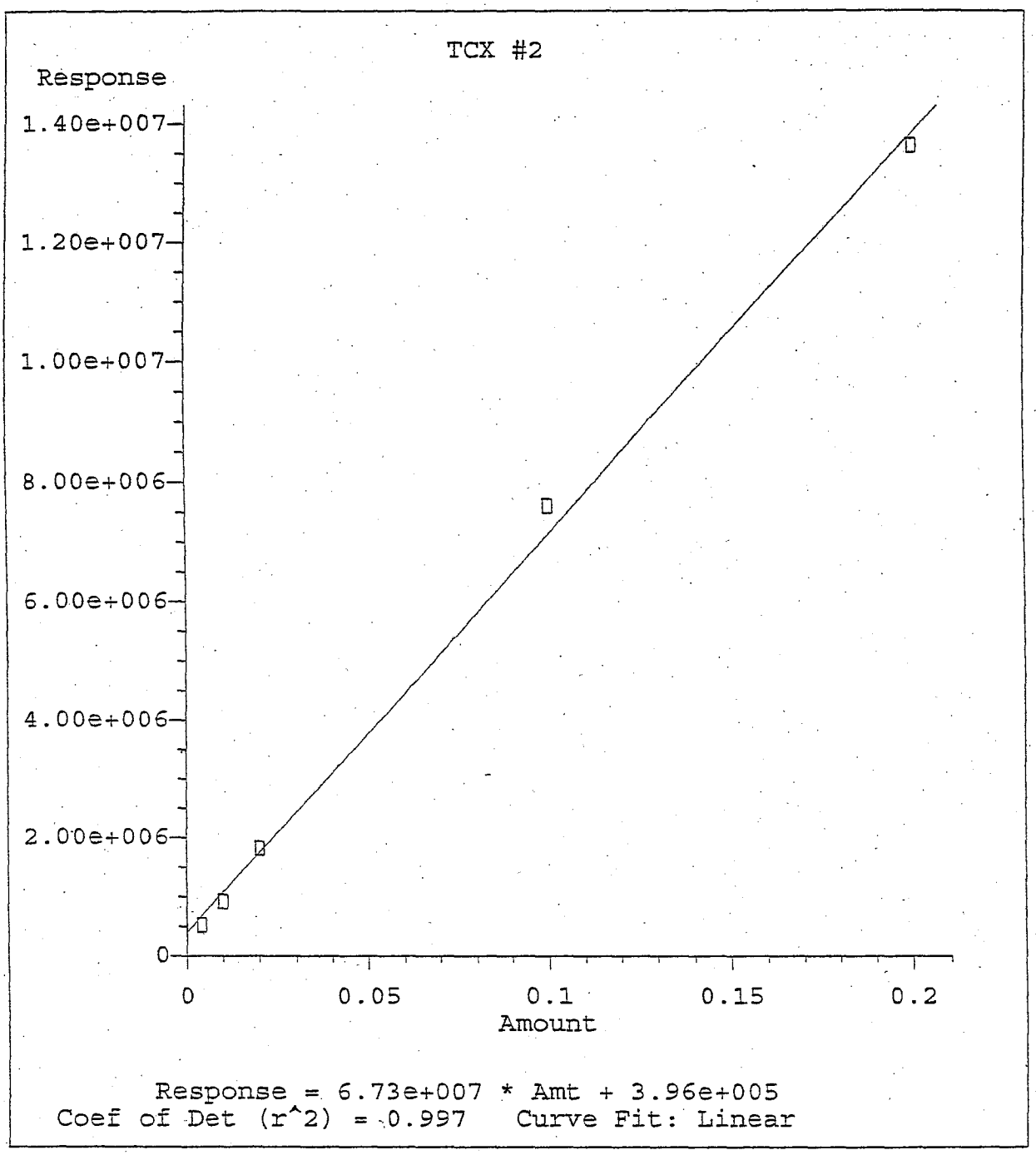

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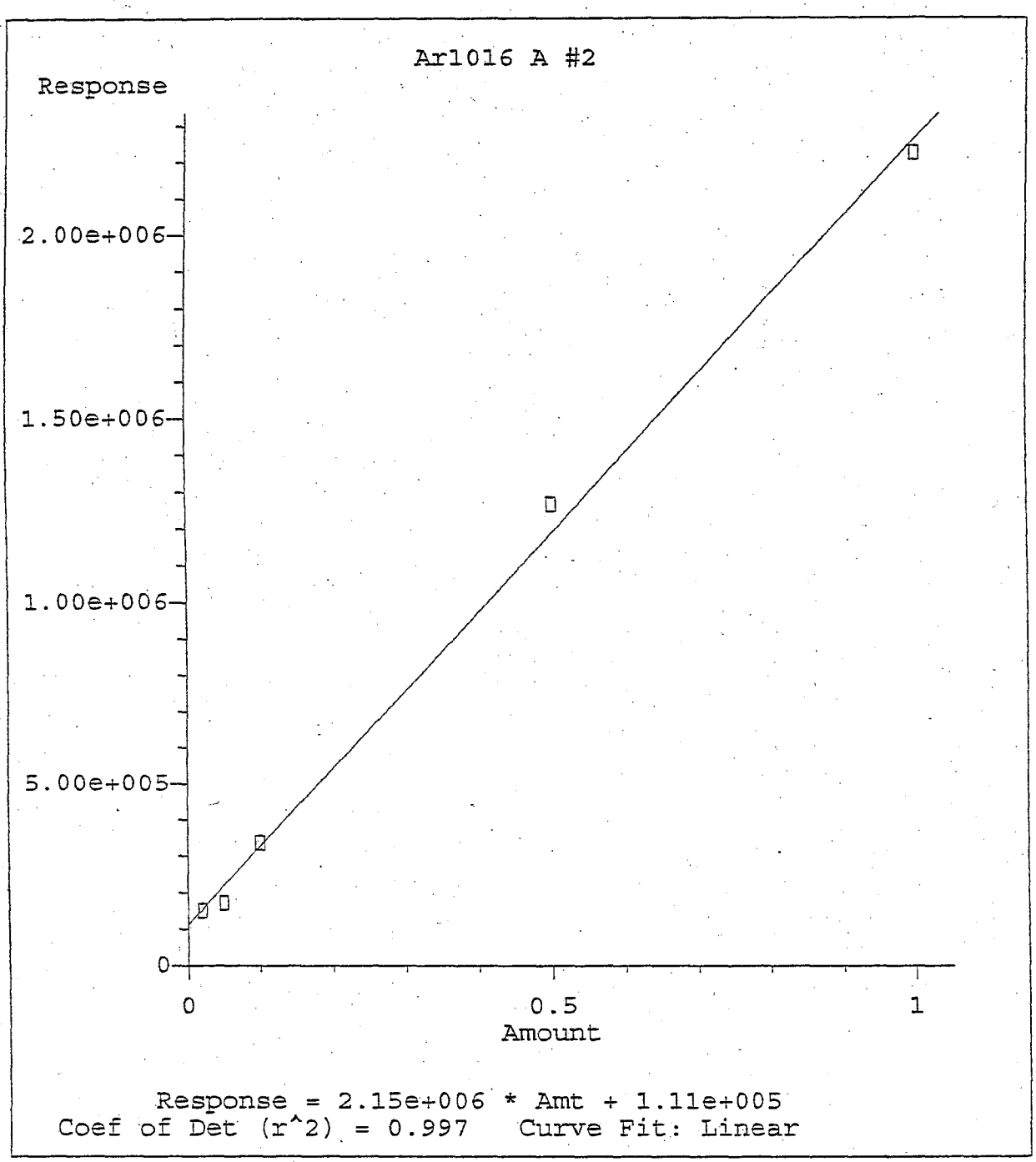

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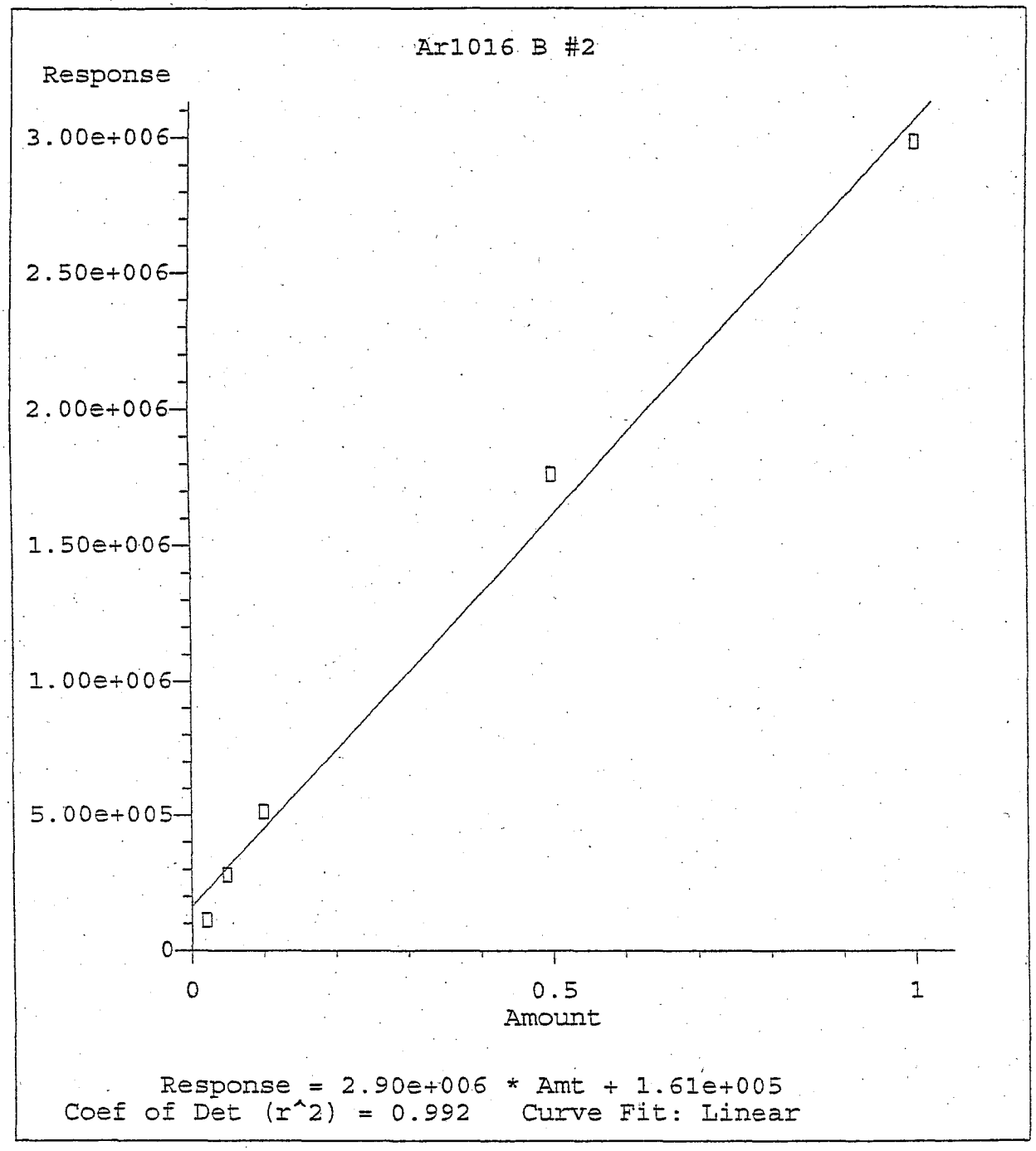

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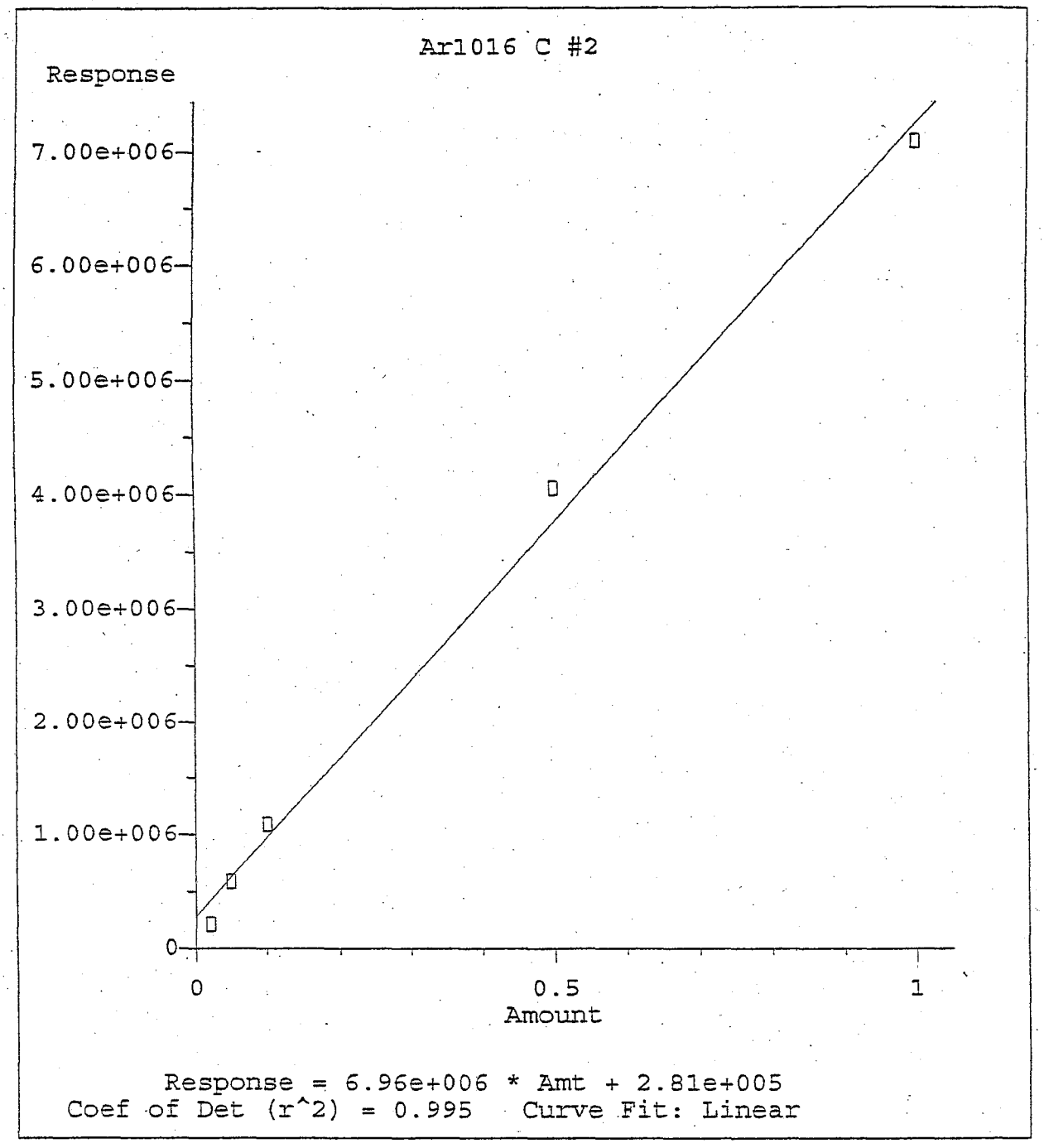

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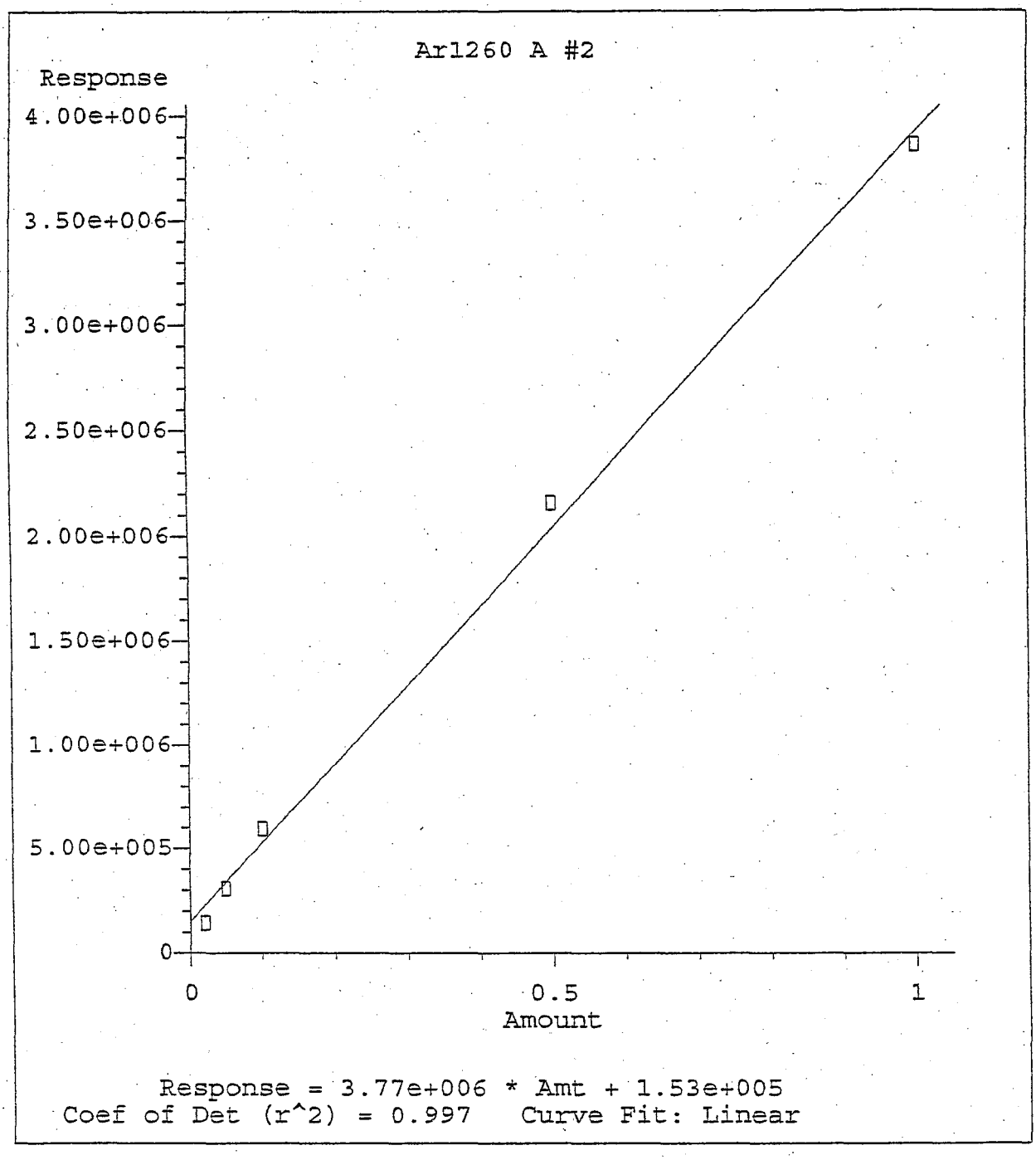

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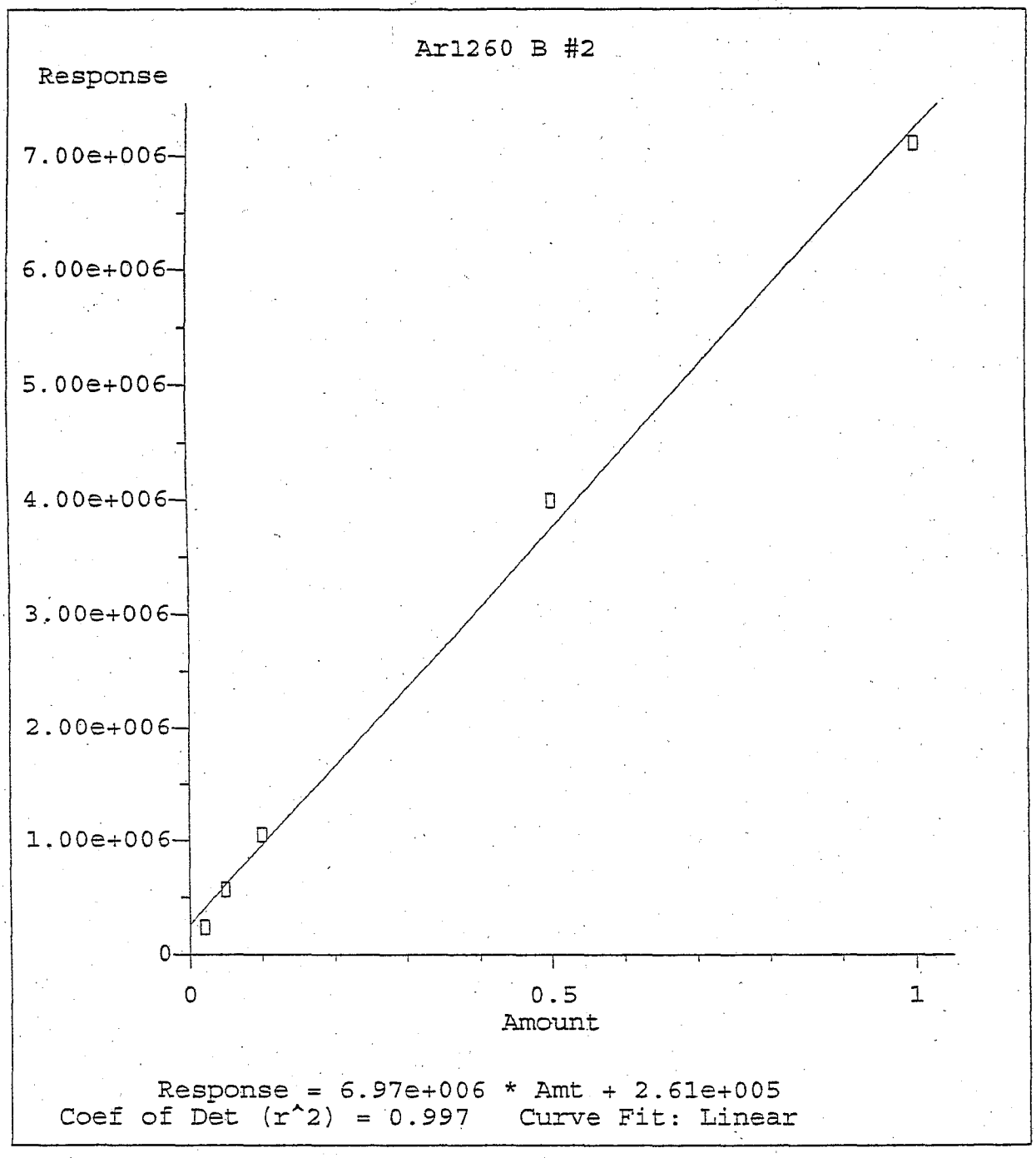

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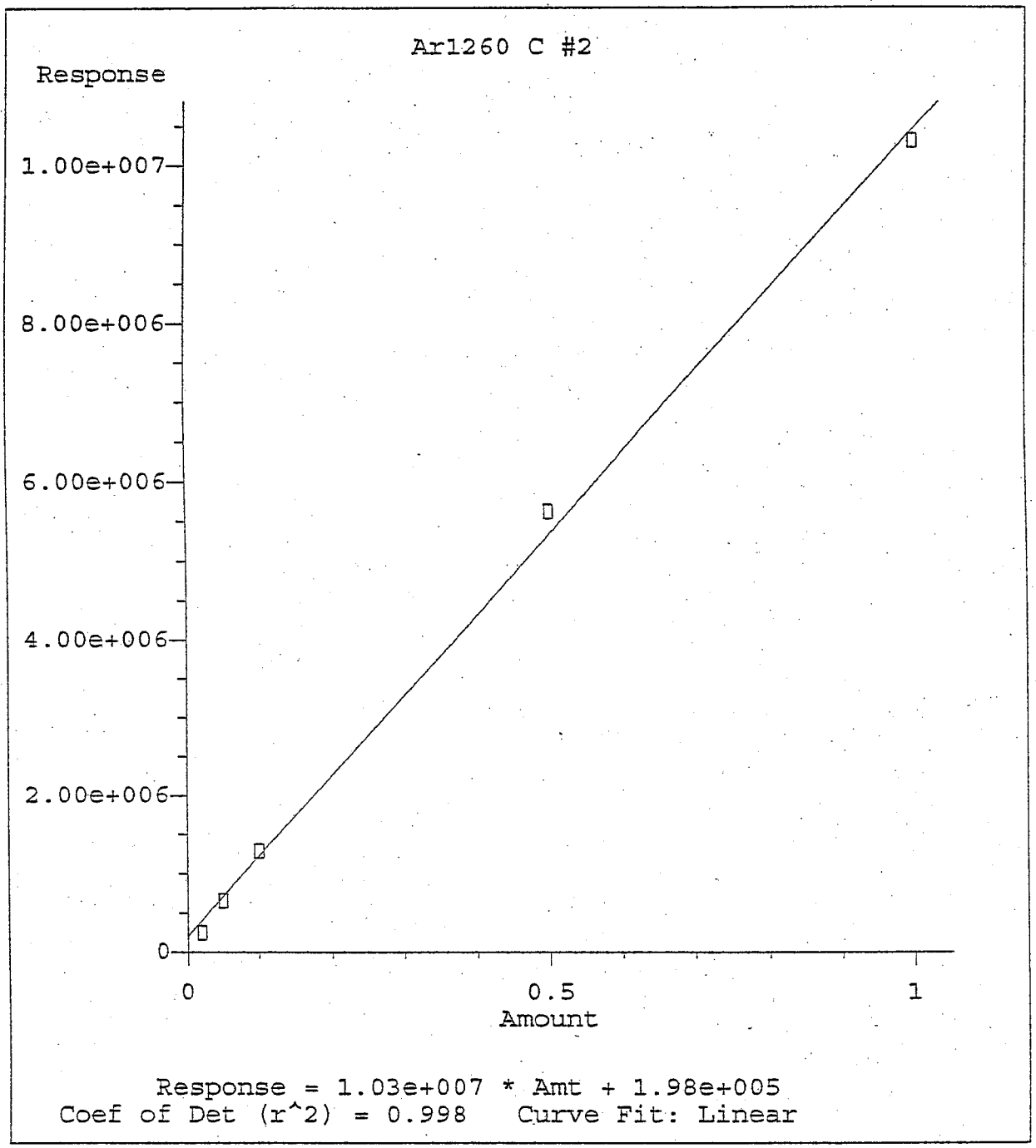

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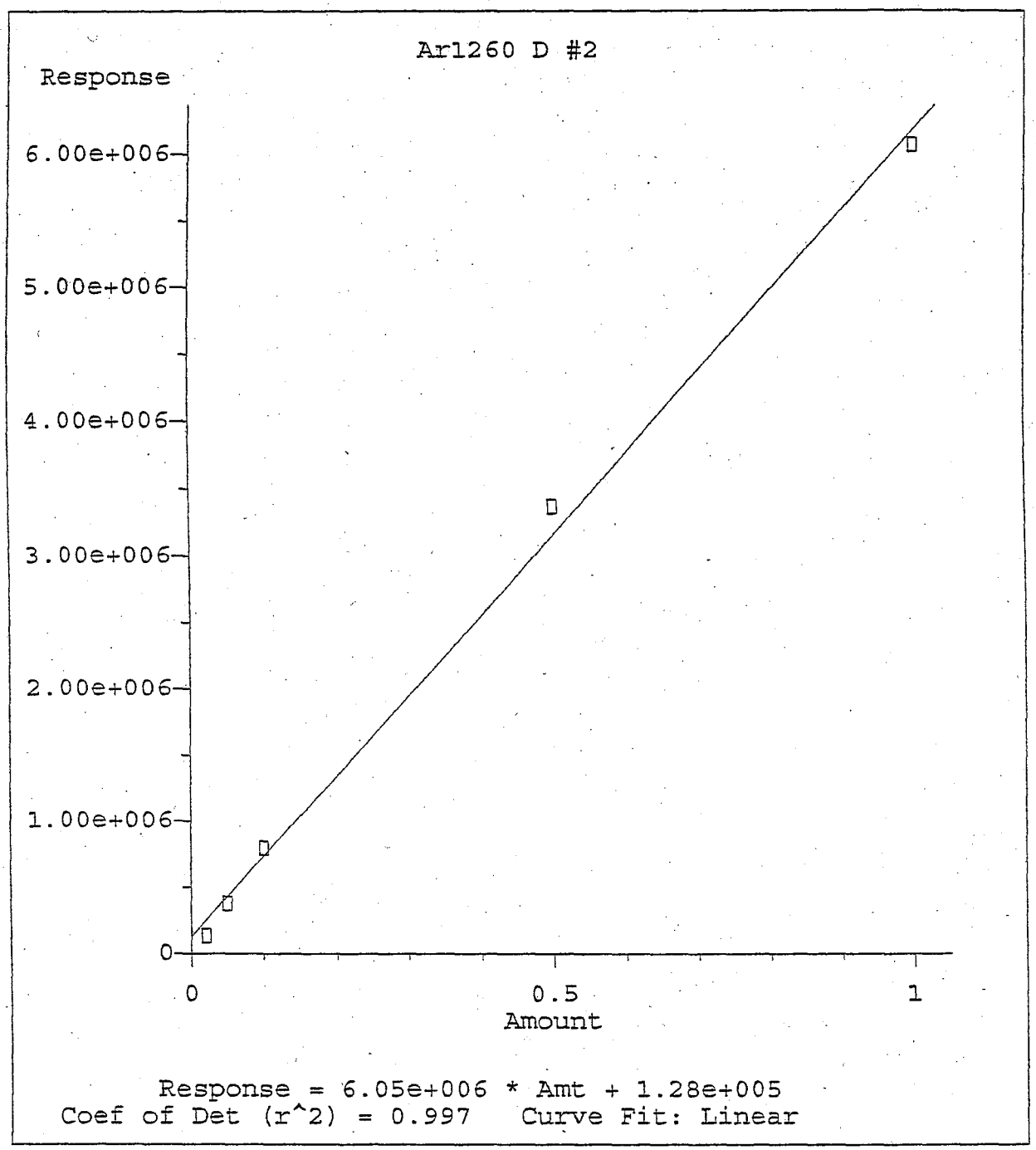

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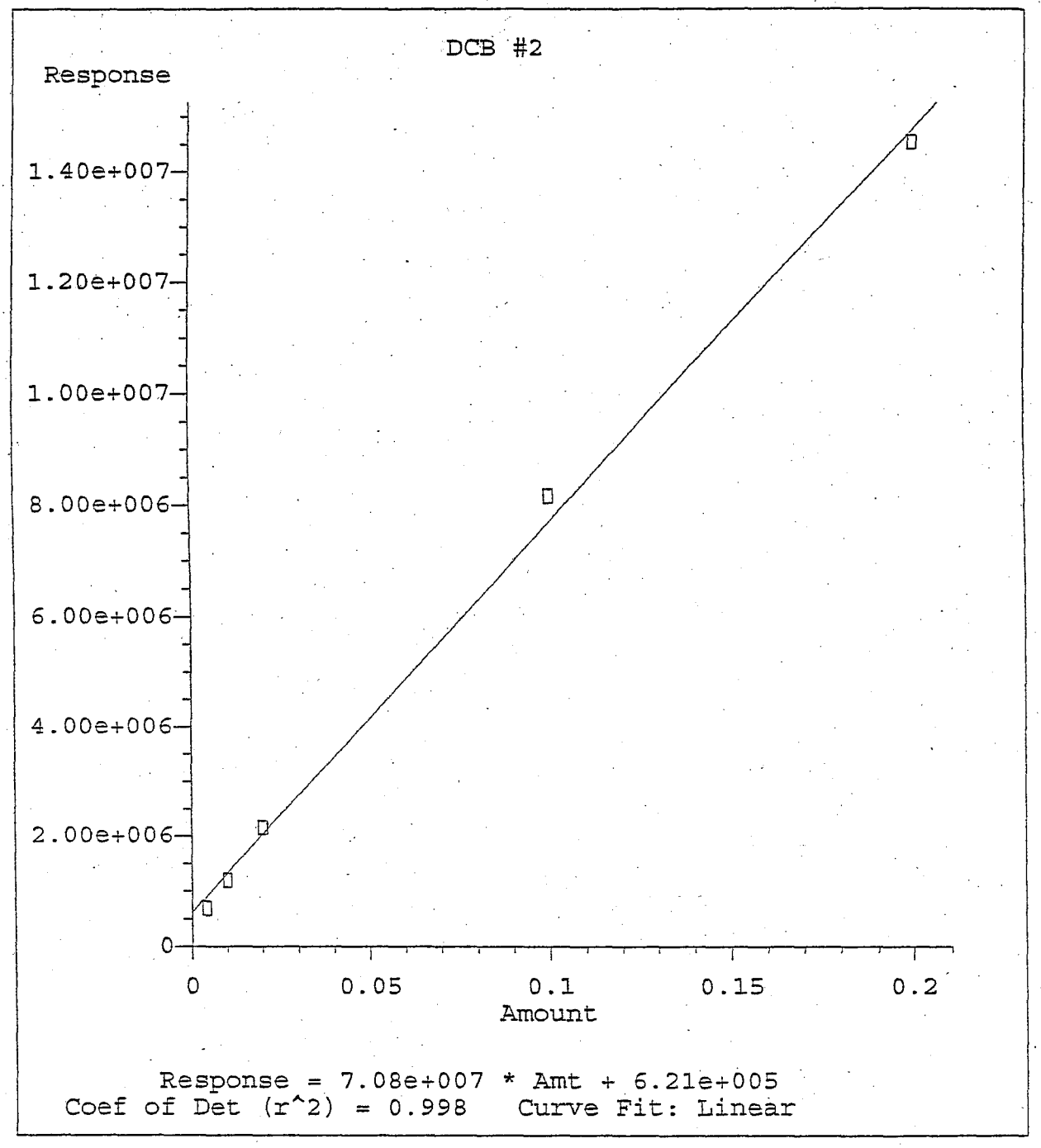

Method Name: D:\HPCHEM\2\METHODS\PBQ8092.M
Calibration Table Last Updated: Mon Aug 19 08:41:34 2002

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7A

PCB CONTINUING CALIBRATION CHECK

Site ID: Topsham, ME

Project No.: CTO 33 GC Column #1: RTX-CLP Pesticides I Data Package ID: 48187

Instrument ID: F GC Column #2 : RTX-CLP Pesticides II ID: 0.53 mm

File #: F26831 Cal. Check Date: 9/3/02 20:13

COMPOUND	True Value (ug/mL)	Measured Value (ug/mL)	% Recovery	Limits %R	Total Out
PCB 1016	0.50	0.519	104	85-115	0
PCB1260	0.50	0.482	96	85-115	0
PCB 1016#2	0.50	0.550	110	85-115	0
PCB 1260 #2	0.50	0.446	89	85-115	0

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7A

PCB CONTINUING CALIBRATION CHECK

Site ID: Topsham, ME

Project No.: CTO 33 GC Column #1: RTX-CLP Pesticides I Data Package ID: 48187

Instrument ID: F GC Column #2 : RTX-CLP Pesticides II ID: 0.53 mm

File #: F26846 Cal. Check Date: 9/4/02 2:58

COMPOUND	True Value (ug/mL)	Measured Value (ug/mL)	% Recovery	Limits %R	Total Out
PCB 1016	0.50	0.511	102	85-115	0
PCB1260	0.50	0.469	94	85-115	0
PCB 1016#2	0.50	0.468	94	85-115	0
PCB 1260 #2	0.50	0.440	88	85-115	0

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PCB SOIL
SYSTEM MONITORING COMPOUND RETENTION TIME SUMMARY

Quote#: SDG: 48187

Project No: CTO 33 Site ID: Bldg 335: PCB Soil Location: Topsham, ME

GC Columns: RTX-CLPesticidesI ID: 0.53(mm)
RTX-CLPesticidesII

Instrument ID: E

Date Analyzed: 9/3/02
Lab File ID (Standard) : F26831 Time Analyzed: 20:13

	COLUMN #1		COLUMN #1	
	SMC1	SMC 2	SMC1	SMC 2
PESTICIDE STANDARD	1.93	7.50	1.57	6.39
UPPER LIMIT	1.96	7.54	1.6	6.43
LOWER LIMIT	1.90	7.46	1.54	6.35

	SAMPLE ID	LAB FILE ID	DATE	TIME	COLUMN #1 SMC1 #	COLUMN #1 SMC 2 #	COLUMN #2 SMC1 #	COLUMN #2 SMC 2 #
01	P2695 16/60 0.5	F26831.D	09/03/02	20:13	1.93	7.50	1.57	6.39
02	ZZZZZ	F26832.D	09/04/02	0:16	1.93	7.50	1.57	6.39
03	ZZZZZ	F26833.D	09/04/02	0:27	1.92	7.49	1.57	6.39
04	ZZZZZ	F26834.D	09/04/02	0:39	1.92	7.48	1.57	6.38
05	ZZZZZ	F26835.D	09/04/02	0:51	1.91	7.48	1.57	6.38
06	ZZZZZ	F26836.D	09/04/02	1:02	1.91	7.48	1.57	6.38
07	B09032PAS	F26837.D	09/04/02	1:14	1.91	7.48	1.57	6.38
08	L09032PAS	F26838.D	09/04/02	1:26	1.91	7.48	1.56	6.38
09	LD09032PAS	F26839.D	09/04/02	1:37	1.91	7.47	1.57	6.37
10	48187-1	F26840.D	09/04/02	1:49	1.91	7.48	1.56	6.38
11	48187-2	F26841.D	09/04/02	2:00	1.91	7.48	1.57	6.38
12	48187-2,MS	F26842.D	09/04/02	2:12	1.91	7.48	1.57	6.38
13	48187-2,MSD	F26843.D	09/04/02	2:23	1.91	7.48	1.57	6.38
14	ZZZZZ	F26844.D	09/04/02	2:35	1.91	7.48	1.57	6.38
15	ZZZZZ	F26845.D	09/04/02	2:46	1.91	7.48	1.56	6.38
16	P2695 16/60 0.5	F26846.D	09/04/02	2:58	1.91	7.47	1.57	6.37
17								
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35								

analytics environmental laboratory LLC

PCB SOIL
SYSTEM MONITORING COMPOUND RETENTION TIME SUMMARY

Quote#: SDG: 48187

Project No: CTO 33 Site ID: Bldg 335: PCB Soil Location: Topsham, ME

GC Columns: RTX-CLPesticidesI ID: 0.53(mm)
Instrument ID: E RTX-CLPesticidesII

Date Analyzed: 8/9/02
Lab File ID (Standard) : F26117 Time Analyzed: 16:24

	COLUMN #1		COLUMN #1	
	SMC1	SMC 2	SMC1	SMC 2
PESTICIDE STANDARD	1.90	7.48	1.56	6.39
UPPER LIMIT	1.93	7.52	1.59	6.43
LOWER LIMIT	1.87	7.44	1.53	6.35

	SAMPLE ID	LAB FILE ID	DATE	TIME	COLUMN #1 SMC1	#	COLUMN #1 SMC 2	#	COLUMN #2 SMC1	#	COLUMN #2 SMC 2	#
01	ZZZZZ	F26113.D	08/09/02	15:37	1.90		7.48		1.56		6.39	
02	P2692 16/60 0.02	F26114.D	08/09/02	15:49	1.90		7.47		1.56		6.39	
03	P2693 16/60 0.05	F26115.D	08/09/02	16:01	1.90		7.47		1.56		6.39	
04	P2694 16/60 0.1	F26116.D	08/09/02	16:13	1.90		7.47		1.56		6.39	
05	P2695 16/60 0.5	F26117.D	08/09/02	16:24	1.90		7.47		1.56		6.38	
06	P2696 16/60 1.0	F26118.D	08/09/02	16:36	1.90		7.47		1.56		6.38	
07	ZZZZZ	F26119.D	08/09/02	16:47	1.89		7.47		1.54		6.38	
08	P2677 1221 1.0	F26120.D	08/09/02	16:59	NA		NA		NA		NA	
09	P2678 1232 1.0	F26121.D	08/09/02	17:10	NA		NA		NA		NA	
10	P2679 1242 1.0	F26122.D	08/09/02	17:22	NA		NA		NA		NA	
11	P2682 1248 1.0	F26123.D	08/09/02	17:33	NA		NA		NA		NA	
12	P2680 1254 1.0	F26124.D	08/09/02	17:45	NA		NA		NA		NA	
13	ZZZZZ	F26125.D	08/09/02	17:56	1.89		7.46		1.55		6.38	
14	ZZZZZ	F26126.D	08/09/02	18:10	1.79	*	7.38	*	0.00	*	6.45	*
15	ZZZZZ	F26126A.D	08/09/02	19:41	1.92		7.49		1.57		6.40	
16	ZZZZZ	F26127.D	08/09/02	19:52	1.91		7.48		1.57		6.39	
17	ZZZZZ	F26128.D	08/09/02	20:04	1.90		7.48		1.57		6.39	
18	ZZZZZ	F26129.D	08/09/02	20:16	1.90		7.47		1.56		6.39	
19	ZZZZZ	F26130.D	08/09/02	20:27	1.90		7.47		1.56		6.39	
20	ZZZZZ	F26131.D	08/09/02	20:39	1.90		7.47		1.56		6.39	
21	ZZZZZ	F26132.D	08/09/02	20:50	1.90		7.47		1.56		6.38	
22	ZZZZZ	F26133.D	08/09/02	21:01	1.90		7.47		1.56		6.38	
23	ZZZZZ	F26134.D	08/09/02	21:13	1.90		7.47		1.56		6.38	
24	ZZZZZ	F26135.D	08/09/02	21:24	1.90		7.47		1.56		6.38	
25	ZZZZZ	F26136.D	08/09/02	21:36	1.90		7.47		1.56		6.38	
26	ZZZZZ	F26137.D	08/09/02	21:47	1.90		7.47		1.56		6.38	
27	ZZZZZ	F26138.D	08/09/02	21:59	1.90		7.47		1.56		6.38	
28	ZZZZZ	F26139.D	08/09/02	22:11	1.90		7.47		1.56		6.38	
29	ZZZZZ	F26140.D	08/09/02	22:22	1.90		7.47		1.56		6.38	
30	ZZZZZ	F26141.D	08/09/02	22:34	1.90		7.47		1.56		6.38	
31	P2695 16/60 0.5	F26142.D	08/09/02	22:46	1.90		7.47		1.56		6.38	
32												
33												
34												
35												

analytics environmental laboratory LLC

195 Commerce Way Suite E
Portsmouth, NH 03801
Phone (603) 436-5111
Fax (603) 430-2151

For Analytics Use Only Rev 6/02

Samples were:
1) Shipped or hand-delivered
2) Temp blank °C 4.4
3) Received in good condition Y or N
4) pH checked by:
5) Labels checked by: ARD 9/03/02

Project#: CTO 33 Proj. Name: Bldg 335, PCB Soil
Company: Foster Wheeler Env Co.
Contact: Dan Sullivan
Address: Kittery, Maine

Phone: 207-451-9751 PO# Quote #
Sampler (Signature): Rich Goldbeck Rich Goldbeck

Matrix Key:
WW=Wastewater
SW=Surfacewater
GW=Groundwater
DW=Drinkingwater
S=Soil/Sludge
O=Oil
E=Extract
X=Other

Container Key
P=plastic G=glass

Station Identification	Sample Date	Sample Time	Analysis	Preservation: Unpres	4oC	HNO_3	H_2SO_4	HCL	Methanol	Other	Matrix	Container number/type		pH	Analytics Sample #
CS-3-8-BS-2	9-3-02	1445	PCB								Soil	1	G		48187-1
CS-3-8-ESW-1	9-3-02	1500	PCB												-2

041/041

FAX RESULTS? YES NO
Fax #

Turnaround Request
Standard ☐ Priority ☑
Due Date Due Date 24 hr

Comments / Instructions:

Page 1 of 1

Received By:	Received By:	Received By:
Time: 1600	Time:	Time:
Date: 9-3-02	Date:	Date:
Relinquished By Sampler: Rich Goldbeck	Relinquished By:	Relinquished By:

Analytics\AEL Documents\AEL COC

Appendix F

Hazardous Waste Manifest

NYB9612459

HAZARDOUS WASTE MANIFEST

P.O. Box 12820, Albany, New York 12212

CWMI

Please type or print. Do not staple.

(Hazardous Waste Manifest 5/00)

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA No. MEX020000000 Manifest Doc. No. 24059

2. Page 1 of 1

Information within heavy bold line is not required by Federal Law.

3. Generator's Name and Mailing Address
NAVAL AIR STATION
35 DOMINION AVE
TOPSHAM ME 04086-1197

4. Generator's Telephone Number (207) 921-1719

A. NYB9612459

B. Generator's ID SAME

5. Transporter 1 (Company Name) AMERITECH ENVIRONMENTAL

6. US EPA ID Number MER000050595

C. State Transporter's ID A494375ME

D. Transporter's Telephone (207) 438-9149

7. Transporter 2 (Company Name)

8. US EPA ID Number

E. State Transporter's ID

F. Transporter's Telephone ( )

9. Designated Facility Name and Site Address
CWM CHEMICAL SERVICES, L.L.C.
1550 BALMER RD.
MODEL CITY NY 14107

10. US EPA ID Number NYD049836679

G. State Facility ID

H. Facility Telephone ( ) 716 754-8231

11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)	12. Containers Number	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. RQ, POLYCHLORINATED BIPHENYLS, SOLID MIXTURE,9,UN2315,III	001	DT	EST 40K	LBS K	EPA STATE B007
b.					EPA STATE
c.					EPA STATE
d.					EPA STATE

J. Additional Descriptions for Materials listed Above.
a. CV5231 - PCB SOIL W/ CONCRETE >50PPM
b.
c.
d.

K. Handling Codes for Wastes Listed Above
a. L
b.
c.
d.

15. Special Handling Instructions and Additional Information
a. PCB Out of Service Date: 08-22-02
SERVICE REQUEST # 651676
ERG #171

81563866

16. **GENERATOR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations and state laws and regulations.

If I am large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR if I am a smaller generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

GENERATOR

Printed/Typed Name: Dale C. Mosher | Signature | Mo. 08 Day 22 Year 02

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: ROBERT SILLSBY | Signature | Mo. 08 Day 22 Year 02

TRANSPORTER

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name | Signature | Mo. Day Year

19. Discrepancy Indication Space
actual rec'd 21546K item 14-K

FACILITY

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name: ELLEN CARTER | Signature | Mo. 08 Day 22 Year 02

COPY 1-DISPOSER STATE - MAILED BY TSD FACILITY

In case of emergency or spill immediately call the National Response Center (800) 424-8802 and the NYS Department of Environmental Conservation (518) 457-7362

CWM Chemical Services, Inc.
Model City, NY

EST 70
Cubic Yards

2

81563866
Receipt #

A494375 ME
Trailer License Plate # and State

651676 CV5231 ME 017
Service Req. # Profile # Permit #

AMERITECH 403/331
Transporter Name Tractor/Trailer/Roll-off #

ROBERT STILSPY V.S. NAVY
Driver's Name Generator

08:15 85900 LB G 2

08/23/02 38400 LB G 1
07:17

08/23/02 47500 P
21546 K

Scheduled Arrival: _____ Date _____ Time

Actual Arrival: _____ Date 562 Time In 7:35 Time Out

Arrived during Blackout? Y / N Notified DEC? Y / N

Receiving: _____ Initials _____ Comments

☐ Leaker ☐ Permit Violation ☐ Placarding/Veh. I.D. Violation

☐ Other (specify _____

☑ Bulk to Landfill ☐ No wet line ☐ Flatbed ☐ Stabilization ☐ Drums ☐ Tanker ☐ Transformers

Laboratory
Time In | Time Out | Initials | Comments

Stabilization
Time In | Time Out | Initials | Gross Wt. | Comments

Landfill
Time In | Time Out | Initials | Comments

Other
Time In | Time Out | Initials | Comments

Aqueous Treatment
Time In | Time Out | Signature (NO Initials) | Comments

Facility Personnel (please initial)

_____ Smoking or eating in prohibited areas

_____ Failure to obey instructions of facility personnel

_____ Failure to wear appropriate PPE

_____ Unsafe driving practices

_____ Other (specify) _____

_____ Leaving truck unattended

_____ Failure to display overweight flag

_____ Improper tarping or detarpin

✓ Overweight upon arrival

Security Guard Initials: _____
(Indicating receipt of Wash Bay pass, if necessary)

Driver's Comments

White: Records Green & Canary: Accts Rec. Pink: Environmental Goldenrod: Driver

NYB9612414

HAZARDOUS WASTE MANIFEST

P.O. Box 12820, Albany, New York 12212

Please type or print. Do not staple.

(Hazardous Waste Manifest Spec)

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA No. M E X 0 2 0 0 0 0 0 0 0 0 Manifest Doc. No. 2414

2. Page 1 of 1

Information within heavy bold line is not required by Federal Law.

3. Generator's Name and Mailing Address
NAVAL AIR STATION
35 DOMINION AVE
TOPSHAM, ME 04086-1197

4. Generator's Telephone Number (207) 921-1719

A. NYB9612414

B. Generator's ID SAME

5. Transporter 1 (Company Name) Enpro Service INC GCP 8/29/02

6. US EPA ID Number MAD980670004

C. State Transporter's ID 36726 MA

D. Transporter's Telephone (978) 465-1595

7. Transporter 2 (Company Name)

8. US EPA ID Number

E. State Transporter's ID 65130

F. Transporter's Telephone ( )

9. Designated Facility Name and Site Address
CWM CHEMICAL SERVICES, LLC
1550 BALMER ROAD
MODEL CITY, NY 14107

10. US EPA ID Number NYD049836679

G. State Facility ID

H. Facility Telephone ( ) 716-754-8231

11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)	12. Containers Number	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. RQ, POLYCHLORINATED BIPHENYLS, SOLID MIXTURE, 9 UN2315, III	001	CM	EST 12500	K	EPA / STATE B007
b.					EPA / STATE
c.					EPA / STATE
d.					EPA / STATE

J. Additional Descriptions for Materials listed Above
CV5231
a. PCB Soil w/concrete >50 ppm c.
b. d.

K. Handling Codes for Wastes Listed Above
a. L c.
b. d.

15. Special Handling Instructions and Additional Information
a. PCB OUt of Service Date: 8/29/02
SERVICE REQUEST # 652776
ERG #171
81564188

16. **GENERATOR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations and state laws and regulations.

If I am large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR if I am a smaller generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name Dale C. Masher Signature [signature] Mo. Day Year 08 29 02

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name Guy C. Pelletier Signature [signature] Mo. Day Year 08 29 02

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name Signature Mo. Day Year

FACILITY

19. Discrepancy Indication Space
Actual Read 14615 K

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name Michelle Fleck Signature Michelle Fleck Mo. Day Year 08 30 02

COPY 1-DISPOSER STATE - MAILED BY TSD FACILITY

Reproduced by Emergency or Spill Immediately Call the National Response Center (800) 424-8802 and the NYS Department of Environmental Conservation (518) 457-7362

CWM Chemical Services, Inc.
Model City, NY

6

Cubic Yards

815 64188 — Receipt #
MA36726 — Trailer License Plate # and State

CV5231 — Profile #
MA-119 — Permit #

Service Req. #

Empro — Transporter Name
1001 1992030 — Tractor/Trailer/Roll-off #

Guy Pelletier — Driver's Name
Naval Air Station — Generator

Scheduled Arrival: 8/30 — Date; 6:00 — Time

Actual Arrival: 8/30 — Date; 600 — Time In; 823 — Time Out

06:30 73900 LB G 2
08/30/02
08:06 41680 LB G 1
08/30/02 32220P
14615 K

Arrived during Blackout? Y / N Notified DEC? Y / N

Receiving: _____ Initials _____ Comments

☐ Leaker ☐ Permit Violation ☐ Placarding/Veh. I.D. Violation

☐ Other (specify _____

☒ Bulk to Landfill ☐ No wet line ☐ Flatbed ☐ Stabilization ☐ Drums ☐ Tanker ☐ Transformers

Laboratory — Time In | Time Out | Initials | Comments

Stabilization — Time In | Time Out | Initials | Gross Wt. | Comments

Landfill — Time In | Time Out | Initials | Comments

Other — Time In | Time Out | Initials | Comments

Aqueous Treatment — Time In | Time Out | Signature (NO Initials) | Comments

Facility Personnel (*please initial*)

_____ Smoking or eating in prohibited areas
_____ Leaving truck unattended
_____ Failure to obey instructions of facility personnel
_____ Failure to display overweight flag
_____ Failure to wear appropriate PPE
_____ Improper tarping or datarpin
_____ Unsafe driving practices
_____ Overweight upon arrival
_____ Other (specify) _____

Security Guard Initials: _____
(Indicating receipt of Wash Bay pass, if necessary)

Driver's Comments

White: Records Green & Canary: Accts Rec. Pink: Environmental Goldenrod: Driver

DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF SOLID & HAZARDOUS MATERIALS

NYB9612405

HAZARDOUS WASTE MANIFEST

P.O. Box 12820, Albany, New York 12212

Please type or print. Do not staple.

(Hazardous Waste Manifest 5-00)

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA No. MEX020000000 Manifest Doc. No. 24405

2. Page 1 of 1

Information within heavy bold line is not required by Federal Law.

3. Generator's Name and Mailing Address
NAVAL AIR STATION
~~35 DOMINION AVE TOPSHAM, ME 04086-1197~~ 1251 ORION ST Brunswick, ME 04011

4. Generator's Telephone Number (207) 921-1719

A. NYB9612405

B. Generator's ID SAME

5. Transporter 1 (Company Name) AMERITECH ENVIRON.

6. US EPA ID Number MER000500595

C. State Transporter's ID A290125/ME

D. Transporter's Telephone 207/435-9149

7. Transporter 2 (Company Name)

8. US EPA ID Number

E. State Transporter's ID

F. Transporter's Telephone ( )

9. Designated Facility Name and Site Address
CWM CHEMICAL SERVICES, LLC
1550 BALMER ROAD
MODEL CITY, NY 14107

10. US EPA ID Number NYD049836679

G. State Facility ID

H. Facility Telephone ( ) 716-754-8231

11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)	12. Containers Number	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. RQ, POLYCHLORINATED BIPHENYLS, SOLID MIXTURE, 9 UN2315, III	001	CM	EST 12500	K	EPA / STATE B007
b.					EPA / STATE
c.					EPA / STATE
d.					EPA / STATE

J. Additional Descriptions for Materials listed Above
CV5231
a. PCB Soil w/concrete >50 ppm c.
b. d.

K. Handling Codes for Wastes Listed Above
a. L c.
b. d.

15. Special Handling Instructions and Additional Information
a. PCB Out of Service Date: 9/3/02
SERVICE REQUEST # [redacted] 653160
ERG #171
81564288

16. **GENERATOR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations and state laws and regulations.

If I am large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR if I am a smaller generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name: Dale C. Mosher Signature: Mo. Day Year 09 03 02

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: ROBERT STILLSBY Signature: Mo. Day Year 09 03 02

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name Signature Mo. Day Year

FACILITY

19. Discrepancy Indication Space
actual rec'd 14488K

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name: EILEEN CARTON Signature: Eileen Carton Mo. Day Year 09 04 02

GENERATOR

In case of emergency or spill immediately call the National Response Center (800) 424-8802 and the NYS Department of Environmental Conservation (518) 457-7362

COPY 1-DISPOSER STATE - MAILED BY TSD FACILITY

Transporter Log

CWM Chemical Services, Inc.
Model City, NY

24 231
Cubic Yards

815604288 — Receipt #
A290125 ME — Trailer License Plate # and State
6533161 — Service Req. #
CV5231 — Profile #
ME-017 — Permit #
AMERITECH — Transporter Name
403/IR2/983001 — Tractor/Trailer/Roll-off #
ROBERT SILLSBY — Driver's Name
U.S. NAVY — Generator

77320 LB G 2
08:25
09/04/02
45380 LB G 1
07:59
09/04/02
31940P - 15.97 TONS
14488K

Scheduled Arrival: Date ____ Time ____

Actual Arrival: Date ____ Time In 604 Time Out 970

Arrived during Blackout? Y / N Notified DEC? Y / N

Receiving: Initials ____ Comments ____

☐ Leaker ☐ Permit Violation ☐ Placarding/Veh. I.D. Violation

☐ Other (specify) ____

☑ Bulk to Landfill ☐ No wet line ☐ Flatbed ☐ Stabilization ☐ Drums ☐ Tanker ☐ Transformers

Laboratory — Time In ____ Time Out ____ Initials GS Comments ____

Stabilization — Time In ____ Time Out ____ Initials ____ Gross Wt. ____ Comments ____

Landfill — Time In ____ Time Out ____ Initials ____ Comments ____

Other — Time In ____ Time Out ____ Initials ____ Comments ____

Aqueous Treatment — Time In ____ Time Out ____ Signature (NO Initials) ____ Comments ____

Facility Personnel (please initial)

____ Smoking or eating in prohibited areas
____ Leaving truck unattended
____ Failure to obey instructions of facility personnel
____ Failure to display overweight flag
____ Failure to wear appropriate PPE
____ Improper tarping or detarpin
____ Unsafe driving practices
____ Overweight upon arrival
____ Other (specify) ____

Security Guard Initials: ____
(Indicating receipt of Wash Bay pass, if necessary)

Driver's Comments

White: Records Green & Canary: Accts Rec. Pink: Environmental Goldenrod: Driver

DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF SOLID & HAZARDOUS MATERIALS

NYB9612432

HAZARDOUS WASTE MANIFEST

P.O. Box 12820, Albany, New York 12212

Please type or print. Do not staple.

(Hazardous Waste Manifest 5-00)

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA No. MEX 0 2 9 9 9 9 9 9 9 0 Manifest Doc. No. 2432

2. Page 1 of 1

Information within heavy bold line is not required by Federal Law.

3. Generator's Name and Mailing Address
NAVAL AIR STATION
~~35 DOMINION AVE.~~ 1251 Orion St.
~~TOPSHAM, ME 04086-1197~~ BRUNSWICK, ME 04011

4. Generator's Telephone Number (207) ~~921-1719~~ 921-2160

A. NYB9612432

B. Generator's ID SAME

5. Transporter 1 (Company Name) AMERITECH

6. US EPA ID Number MER000095995

C. State Transporter's ID A29025 ME

D. Transporter's Telephone 207 438-9148

7. Transporter 2 (Company Name)

8. US EPA ID Number

E. State Transporter's ID

F. Transporter's Telephone ( )

9. Designated Facility Name and Site Address
CWM CHEMICAL SERVICES, LLC
1550 BALMER ROAD
MODEL CITY, NY 14107

10. US EPA ID Number NYD049836679

G. State Facility ID

H. Facility Telephone ( ) 716-754-8231

11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)	12. Containers Number	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. RQ, POLYCHLORINATED BIPHENYLS, SOLID MIXTURE, 9, UN2315, III	001	CM	EST. 12500	K	EPA / STATE B007
b.					EPA / STATE
c.					EPA / STATE
d.					EPA / STATE

J. Additional Descriptions for Materials listed Above
CV5231
a. PCB soil w/concrete .50 ppm c.
b. d.

K. Handling Codes for Wastes Listed Above
a. L c. b. d.

15. Special Handling Instructions and Additional Information
a. PCB Out of Service Date: 9/5/02
SERVICE REQUEST # 653434
ERG #171
81564436

16. **GENERATOR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations and state laws and regulations.

If I am large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR if I am a smaller generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name: Dale C Mosher Signature: Mo. Day Year 09 05 02

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: ROBERT STILLSBY Signature: Robert A. Stillsby Mo. Day Year 09 05 02

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name Signature Mo. Day Year

FACILITY

19. Discrepancy Indication Space
Actual Reid 17473K

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name: Ellen Carter Signature: Ellen Carter Mo. Day Year 09 06 02

COPY 1 - DISPOSER STATE - MAILED BY TSD FACILITY

In case of emergency or spill immediately call the National Response Center (800) 424-8802 and the NYS Department of Environmental Conservation (518) 457-7362

Transporter Log

CWM Chemical Services, Inc.
Model City, NY

20 Cubic Yards

83000 LB G 2
06:36
09/06/02

87564436 — Receipt #
A290125 ME — Trailer License Plate # and State
653434 — Service Req. #
CV5231 — Profile #
ME-017 — Permit #
AMERCETECH — Transporter Name
403/TR2/25288 — Tractor/Trailer/Roll-off #
ROBERT SILLSBY — Driver's Name
U.S. NAVY — Generator

44480 LB G 1
07:58
09/06/02

38520 P - 19.26 TOR
17473 K

Scheduled Arrival: Date ____ Time ____

Actual Arrival: Date ____ Time In 546 Time Out 810

Arrived during Blackout? Y / N Notified DEC? Y / N

Receiving: Initials ____ Comments ____

☐ Leaker ☐ Permit Violation ☐ Placarding/Veh. I.D. Violation

☐ Other (specify ____

☐ Bulk to Landfill ☐ No wet line ☐ Flatbed ☐ Stabilization ☐ Drums ☐ Tanker ☐ Transformers

Laboratory

Time In	Time Out	Initials	Comments

Stabilization

Time In	Time Out	Initials	Gross Wt.	Comments

Landfill

Time In	Time Out	Initials	Comments

Other

Time In	Time Out	Initials	Comments

Aqueous Treatment

Time In	Time Out	Signature (NO Initials)	Comments

Facility Personnel (please initial)

- ____ Smoking or eating in prohibited areas
- ____ Failure to obey instructions of facility personnel
- ____ Failure to wear appropriate PPE
- ____ Unsafe driving practices
- ____ Other (specify) ____
- ____ Leaving truck unattended
- ____ Failure to display overweight flag
- ____ Improper tarping or detarpin
- ✓ Overweight upon arrival

Security Guard Initials: ____
(Indicating receipt of Wash Bay pass, if necessary)

Driver's Comments

White: Records Green & Canary: Accts Rec. Pink: Environmental Goldenrod: Driver

Appendix G

Field Notes

Operate Bio #2 unit, record data. No evident problems. Noticed that well pickup is not functional - level in tank does not change. Stinger tubes must be in air medium. Continue to operate system. Cycle water into separator tank by opening water inlet valve to seal water tank O/W separator discharged water through filters. Satisfactory operation
NWSE - 2.0 hr.
VAN:

Rich

SAT:
8-17-02 / 8-18-02
SAT:
Pick up Van with equip. for BNAS - PCB soil cleanup project. Load with tools...
Review Work Plan. / E-Mails / From Dan - Joshua W.P review
2282-0033-9201-00000
SUN:
Travel to BNAS - Brunswick, ME.
Leave Home 03:30 PM arrive 11:00 PM

VAN Travel: 426 mi
Check into Viking Motor Inn
Unload Van.
2282-0033-9201 8.0 h

8-19-02 (M) On Site: 0700
Depart: 1930
Rich: Proj Super End Day:
DAN SULLIVAN Proj Man.
MAINE DEP - CLAUDIA SAIT 287-7713 (207)
HEATHER FERRO - F/W - BOSTON
GARY MACINER - F/W LABOR

ON Site: 0700
Rich, Claudia, Gary, HEATHER, Health & Safety Briefing Conducted 0800

0815 Began set up site - set posts & orange safety fence. U/Load equip from DAN's P/U Truck, Gary P/U Truck.
Set up decon station Alconox wash basin & rinsate bucket=water. Set up lab-field
0900
Dig grass sod layer around perimeter of old pad. 4' from North edge, 4' from South edge, 4' from West edge, 3' from East edge (inside fence)

0930 Began extracting soil samples around old pad perimeter 0-3" Below Finish Grade place samples in 4 oz Jars & Note sample I.D.
Extract 7 samples N-1-1; N-2-1; N-3-1, N-4-1; N-5-1; N-6-1; N-7-1. North side
Extract 6 samples E-1-1; E-2-1; E-3-1; E-4-1; E-5-1; E-6-1. East side
Extract 7 samples S-1-1; S-2-1; S-3-1; S-4-1; S-5-1; S-6-1. South side
Extract 6 samples: W-1-1; W-2-1; W-3-1; W-4-1 W-5-1; W-6-1 West side →

Extract soil / roots... place in decon'd bowl with decon spoon & mix thoroughly - remove large root mass, stones... Place in 4 oz jar. Cleaned bowl and spoon after each sample procedure.
Tony Williams on site.
1100 Hr - Began second sample procedure using hand auger to remove soils at 1'-2' depth - placed in bowl and thoroughly mix - homogenize. Take soil sample and placed in 4 oz Jar - marked samples.

1145 Lunch.
1230 Return - Lunch
1240 Continued to extract samples 1'-2' depth at sample locations. Clean auger, bowl & spoon after each sample event. Mark sample jars.

1500 Heather spoke to SDI regarding samples - second standard did not work attributed to ambient temperature. Need to run tests - analysis in cooler temperature area. Heather may start in Hotel room to run analysis.

1430 Extract soil sample from catch basin place sample in 4 oz jar, seal & identify sample. CB 81902-1

1600 Completed sampling 1'-2' depth for around pad area. 1' + 3' distances from pad edge

Heather continued to prepare samples for analysis.

Gary / Rick began site cleanup.

1550 Extracted Composite soil sample from stockpile. Place sample in 4 oz jar identify sample SP 8-19-02-1

Place runoate water in 55 gal drum, seal drum & label (temp)

Lab stopped by 1645 to pick up catch basin sample & stock pile sample for PCB analysis.

Two drums were placed on site within the security fenced area. One was used for storage of runoate water, the other is empty.

Packed up most equip. at site. Place Hot's in coolers for Heather to work on at Hotel. P/U ice... Deliver most equip to Park View Hotel for Heather.

Weather: AM 70° PM 90° hot, humid, sunny, clear.

Return to Hotel to complete reports, document, soil sample log, plot some.

Note: Sample were received in coolers was effected by water remaining in cooler.

Heather spoke to Dan S to obtain additional Kit

RLG

VAN: 38.0

8-20-02 (T)

On Site: 0700
Depart: 1800
End Day: 1900

Rich: Supervisor
Gary: Laborer
Heather: F/W - Lab.
Claudia: Haise DEP

0700 - On site.
0710 - H&S Briefing - Rich + Gary
0720 - Setup Tent cover, table, unload all needed mat'ls. Decon station
Heather - at Hotel running analyses on previous day samples. Delivered Dilution Vials to lab.
0800 Layout sample location N & W of Pad, 6' from concrete edge. Began taking samples 1' to 2' BFG. Extract samples: N-1-03; N-2-03; N-3-03; N-4-03; N-5-03; N-6-03; N-7-03; W-1-03 W-2-03; W-3-03; W-4-03; W-5-03; W-6-03; W-7-03; W-8-03; W-9-03; S-1-04, S-2-04, S-3-04, S-4-04, S-5-04, S-6-04, S-7-04 S-8-04, N-1-04, E-4-1-2 All Samples ?-?-03 taken at 1'-2' Deep @ 6' from Pad edge. All Samples ?-?-04 Taken at 0"-3" Depth 6' from pad edge.
N-2-04, N-3-04, N-4-04, N-5-04, N-6-04, N-7-04, W-1-04, W-2-04, W-3-04, W-4-04; W-5-04, W-6-04, W-7-04 W-8-04, W-9-04, E-1-04, E-2-04, E-3-04, E-4-04, E-5-04, E-6-04 E-7-04, E-8-04, E-9-04 Below E-4-(1'-2') Sample
Extracted 51 Samples for field analysis by Heather/ Heather on site 1230. Set up station under tent area adjacent to lot area. Area still to windy, lot moved station next to building in shade. Compressor room too hot, noisy.
Rich / Gary disconnected fence sections - and remove fence mat'ls. to easily access pad area for removal tomorrow.

→

Discuss alternate location to conduct field sampling with Claudia & Tony Williams. Tony suggested use of GWTP at Base. Will try to gain access to base 0830 tomorrow morning.
Construct decon pad. 4'x 8'x 8"
Request additional sample kit to be delivered via Fed Ex to Commissary Bldg tomorrow.

1630 Began securing site. Place decon waters in 55 gal drum. Load up sampling mat'ls with Heather F.

Pack up mat'ls Equip. Transfer mat'l/equip needing cool temp to refrig in room.

Claudia Sart MDEP on site to oversee sampling procedures, testing & result review of immunoassay samples.

Weather: AM 72° PM 92° clear, hot, humid sunny.

RLG

VAN: 32.0

BNAS- Bldg 335

8-21-02(W)

On Site: 0700
Depart: 1930
End Day: 2100

Rick: Super.
Lab Techs: Heather F, Melanie
Laborer: Gary
Equip: Backhoe / Excavator
0700 On site Conduct H-S briefing
0720 Prep site.
0815 Met Lab techs at Base BNAS as per Tony W. request.
0830 Waiting for escort on to Base to set up lab facility at Bldg 50.
0845 Called Tony W. - changed lab location to Bldg 378 close to Commissary annex
0900 Mobilize to Bldg 378, set up lab.
Received back hoe from Nation Rent.
Conduct inspection.
1015 Calibrated air sample equip.
Began demolition - break up of concrete pad 9'x9'. Use water to hold down dust.
Completed demolition of pad - remain in place. Pulled steel angle edge - set aside.
Removed fence post upright by cutting at ground level with cut off saw.
Remove fence mesh & hard ware. Store at site. Cut old steel service risers conduit into 7-8' lengths to load on truck.
1210 Lunch.
1250 Check sample status results
Removed old former meter box at old pad.

→

1300 Hr Nations Rent on site to drop off excavator and pick up backhoe.
Conduct inspection of equip.
Set up to pull old service wires from conduits at pad.
Frank (North Div) on site to review project scheduled meeting with Dan S.
Frank at Bldg 378 to review sampling.
Rick / Gary At site pulled old service wire cut into manageable lengths. store at site.
Dan Sullivan on site - loaded P/U truck with scrap steel, conduit, posts...
Review sample layout results, discuss procedure to load / excavate soils at pad area.
Extracted additional samples, plot sample results on site drawing.
Layout excavation area with Dan.
Completed pulling out 3 sets of service cables (old service) cut cables into 10' lengths.
Claudia (HDEP) on site various intervals to review sampling.
Extracted post samples for early morning analysis
1'-2': S-1-05, S-2-05, S-3-05, S-4-05, S-5-06, S-6-05, S-7-05, S-8-05, S-9-05, W-2-06, W-4-06, W-6-06, W-8-06, W-9-06, N-1-06, N-3-06, N-5-06, N-7-06, N-7-06, N-8-06,
2'-3': N-1-07, N-3-07, N-4-07,
0"-3" S-2-08, S-4-08, S-6-08, S-7-08, S-9-08, W-2-08, W-4-08, W-6-08, W-8-08, W-9-08

→

Received additional test sample kits for SDI via Fed Ex.

Weather: 70° 92° clear, hot, sunny, humid

VAN: 52.0

RLJ

8-22-02 (TH)

On Site: 0700
Depart: 1800
End Day: 1930

Rich: Prog Super
Lab Tech: Melanie
Laborer: Gary H. Operator: T. Lalte
Equip: Excavator

0700: On site, conduct H&S briefing.
Conduct equip inspection - excavator
Setup sight - tent, decon station...
Rich: Drop off lab kits to Melanie at Bldg 378
Melanie set up lab equip. Save lab Wednesday - previous soil sample for analysis.
Spray paint mark out 25' x 24' area foot print for excavation.
Laborer / Oper. pulled remaining (last) old service cables from old service pipe at transf. old location.
Cut cable in 10' lengths.
0735 Transporter - American Trucking on site with dump trailer. Positioned truck in ramp area next to site. Set in liner.
Lay out plastic layer in loading area.
Set up air monitoring equip. Calibrate unit as per manual. Frank S. on site (North Div) to oversee operations.
Set up air monitor - down stream of air flow. Take initial reading .082. Air quality good. Began excavation of 24' x 25' area. Remove soil and concrete place in truck. Place old angle steel from pad in truck. Place waste mat'ls - sampling, decon, PPE in truck.

Monitor air - OK less than 1.0 MG/M³.
Keep area wet with light water mist.
Take pictures.
Tony Williams, from Toal, Dale Mozune, Frank S,
Claudia S on site 1000. Completed
loading of truck - dump body. Weight checked
several times on flat surface. 40K lbs
in truck - completed Manifest, signed by Dale M.
1030. (for + generator). Truck covered, placarded,
Manifest completed - left site 1100 h.
Excavator piled soil within footprint area.
Received Roll off container 1300 h. placed in
lower. Began loading soil into same. Filled
to edge of container. P/U plastic lay down
sheets - place in to rolloff. Covered same &
placed tags / markers on outside.
Received 2nd rolloff 1615 h. Placed into
position. Completed loading soils from 24'x25' area
plus "L" shaped 2' depression into rolloff.
Extracted additional soil samples for analysis by
Melanie. decon of tub each extraction
Decon excavator bucket over rolloff box.
install fence around site, place decon water
solutions into 55 g. drum. Clean site -
Removed 4-4" Steel pipes (former service pipes) at
XFMR Pad area. - dispose of into contained rolloff.
Melanie completed sample analysis 1800 h.
0"-3": W-2-10, W-4-10, W-9-10,
1'-2': S-2-09, S-4-09, S-9-09
3'-4': N-1-10, N-4-10. 2'-3' N-5-10, N-7-10

Weather AM 65° clear, sunny, lot humid
PM 90° sun / clouds late rain
Rick G

Use VAW: 36.0

8-23-02 (F)

On Site: 0730
Depart: 1630
End Day: 1800

Rich: Prog Super
Operator: Joe Labbe
MDEP - Claudia
Equip: Excavator

0730 Arrive at Main gate to obtain escort - from Toal, in order to obtain pass. to perform work on infiltration gallery. Inspected infiltration gallery area.

0810 Mobilized to Bldg 335 - Commissary area. Began set up of site, prepare decon area. Lay down plastic. Prepare to take confirmatory samples. Set up tent cover.

Called Don Sullivan - unsettling discussion regarding taking samples and soil excavation procedures. Wanted confirm samples taken for lab P/U. unable to since 3 containers arrived at site and were positioned at 4:30 (1630) h. Loaded balance of soils into 3 containers - last @ 500 pm (1700 h) Set up grid for confirmatory sample lay out.
Layout string lines to create 9 - 8'x8' square areas (64 sq/ft) as per sampling plan. original W.P. illustrated 4 - 8'x8' areas. Sampling results promoted increased soil area to be remediated

→

0915 Began extracting confirmatory soil samples

Claudia Sait (MDEP) on site to observe and review sampling procedures and locations.
P/U Cooler & ice bags from Cumberland Farms for sample shipping.

Extracted samples: Confirmatory

CS-9-BS	0915	Grid	#9	bottom Sample (BS)	
CS-6-BS	0925	"	#6	" "	
CS-8-BS-	0940	"	#8	" "	
CS-5-1-BS	0955	"	#5	" "	1' Deep
CS-5-2-BS	1010	"	#5	" "	1' Deep
CS-3-BS	1020	"	#3	" "	
CS-2-BS	1030	"	#2	" "	
CS-1-BS	1045	"	#1	" "	
CS-4-BS	1055	"	#4	" "	

Make up site detail plan to illustrate sample locations.
Place samples in cooler as completed / prepared.

→

CS-7-BS	1112	Grid	#7	Bottom Sample
CS-9-ESW	1128	"	#9	East side Wall
CS-9-SSW	1140	"	#9	South " "
CS-8-SSW	1155	"	#8	" " "
CS-7-SSW	1212	"	#7	" " "
CS-7-WSW	1226	"	#7	West " "
CS-4-WSW	1240	"	#4	" " "
CS-1-WSW	1300	"	#1	" " "
CS-1-NSW	1315	"	#1	North " "
CS-2-NSW	1325	"	#2	" " "
CS-3-NSW	1335	"	#3	" " "
CS-3 ESW	1348	"	#3	EAST " "
CS-6-ESW	1405	"	#6	" " "
CS-7-WSW-2	1415	"	#7	West " " 2' Deep
CS-4-WSW-2	1425	"	#4	" " " " "
CS-1-WSW-2	1435	"	#1	" " " " "
CS-1-NSW-2	1445	"	#1	North " " 2' Deep
CS-2-NSW-2	1455	"	#2	" " " " "
CS-3-NSW-2	1500	"	#3	" " " " "

Courier from Assay Lites lab on site 1445 to pick up samples & prepared chain of custody for PCB samples. Placed on ice in styrofoam cooler. Took samples 1510 h. left site. Began demobe of site.

Note: Samples were extracted as per Work Plan procedures. Sampling utensils were decontaminated as per S.P. Wash in Alconox solution, rinse in water, rinse in distilled water, dried with paper towels & air.

→

Poured decon solutions into 55 gal drum. and sealed. Cleaned up site, secured with fence, Place equip in VAN.
Operator: No work performed with equip. Assisted in site setup - sampling... 1000 h to 3:30 (1530 h)

Claudia off site - left message on cell phone voice mail - concerning excellent job being done. Very confident in FW activity - procedure...

Called Dan S - left message 1630 h

Check roll off containers. - OK - sealed, covered, labeled.

Weather: AM 67° PM 85° clear, sunny hot, light breeze

Return to Hotel to complete reports, map sample locations...
1700 h - 1830 h

Rich

VAN: w/tools 20.0

8-26-02 (H)

On Site: 0800
Depart: 1700 h
End Day: 1800

Rich: Proj Supv.

Mobilize to Bldg 335 site. Met with Larry DeBorn to discuss sampling, project status. Will stop by tomorrow to review confirmatory sample analysis.
Analytics lab sent, courier to pick up lab sample #28 mistakenly left when samples were picked up on Fri.
Check site -
Removed lab mat'ls from maintenance Bldg #387 used for field analysis. Cleaned up area - discard cardboard boxes... Place sampling mat'ls in compressor room of bldg 335. Store lab - paid samples
Check site
3.0 h.

Mobilize to BNAS. Infiltration gallery to remove silt fence & posts around gallery area.
5.0 h.

Spoke to Claudia S. MDEP update on project

Weather: AM 65° PM 80° clear, sunny

Received results from PCB levels - 1st round of CS. first 19 samples.

VAN: 20.0

RJH

BNAS - PCB c/u.

8-27-02(T)

On Site: 0700
Depart: 1630

Rich: Proj Supervisor

Mobilize to site. Met Larry Dearborn, HDEP received last 9 sample results from CS 1st round samples.

Laborer: Gary M
Operator: Bill
Onsite 0700. Conduct H&S briefing.
Set site up to excavate additional soils from Excavation based on recent lab results.
Uncovered container #2. Lay down plastic over surface areas to capture spoils from bucket.
Excavate and load soils into container.
Hand dig around concrete duct bank - exposed conduits electric & telephone.
Expand excavation north toward building by 2' W x 16' long 2' Deep.
Encountered existing electric conduit 2-4" at East edge.
Filled container #2 covered same - day decon excavator bucket over container
Reset grid lines.
Set site to extract 2nd round of confirmatory samples. Extract 13 CS from excavation. 1300 - 1500 h. Prepare samples for P/U by lab courier.
Set up decon mat'ls. Decon sampling mat'ls after extracting each sample event →

Courier P/U samples 1600 h.

Operator: Completed task 1200 h lift site to return to PNSY per Dan S.

Gary M. assisted in obtaining samples. Secured site 1630 h.

Return to Hotel to complete reports...

Discuss days activities with Claudia S HDEP

Weather AM 66° PM 82° clear, sunny, cool/warm

Rich G

VAN: 20.0 mi

8-28-02(W) On Site: 0800
Depart: 1700

Rich: Proj Supervisor

No work performed at site with laborer or operator waiting for results of 2nd round of C.S.

AT Bldg 335 loaded scrap copper into Van Transport to Emmel Scrap Metal, approx 1,100 lbs of scrap copper were - old serviced wire from Bldg. Return to site. Secure area.
3.0 hr.

Mobilize to BNAS - Infiltration Gallery - to remove additional silt fence & posts around gallery area.
5.0 hr

Return to Bldg 335 to take measurements for as built drawings - work on drawing changes.
1.0 hr

Received 13 sample results - CS Round 2 From Josh 1100 hr. Spoke to Dale Mosher, Tony Williams regarding P/U of 1-roll off container for T-D on THursday Morning. Called Analytics Lab to schedule sample P/U - THur. Spoke to Claudia @ MDEP regarding sample results

Complete reports...

Weather: AM 60° PM 80° clear, sunny, cool - warm

VAN: ~~[illegible]~~ mi 56.0

8-29-02(TH) On Site 0700
Depart: 1730

Rich: Proj Supervisor

Labor: Gary H.
Operator: Bill I.

0700 Personnel on site. Conduct H & S Briefing.
0715 Conduct equip inspection
0720 Lay down plastic around excavation perimeter for excavator to travel over while moving soil to new roll off #3.
0730 Calibrate air dust monitor as per manual Field reading @ .008 MG/M³. Set monitor at work area. Setup site for excavation of additional soils as per latest sample result. Review with crew.
Called Global (Paul) to confirm P/U & delivery of 1-roll off. - on way.
Ameritech Env. on site 0915 to deliver 1-30 cu yd roll off container & pick up 1-PCB loaded 30 cu yd container. Operator/Driver dropped empty container in lot. Picked up full container placed in driveway next to site. Pulled container loaded onto truck. Moved to lot and, took weight readings of loaded container approx 5,000 lbs over weight. Used excavator to transfer soil from loaded container to empty one. Installed plastic liner in empty container.
Picked up delivered container #3 and placed in position on asphalt ramp Next to site. Picked up 1-PCB soil loaded container (#1) prepare for T&D →

to Model City N.Y. Obtain manifest from driver - go to BNAS Hainsile - environmental dept. to get documents signed by Dale Hosler. as generator. Returned signed documents to driver. Driver departed site approx 1100 h.
Placed plastic sheeting over site surface.
Began excavating soils from excavation as per latest confirmatory samples and loaded into container #3. Checked container #2. Transfer some soil to reduce volume & weight in container for shipping (Tuesday)
Loaded container #3 with as much soil as possible.
Collect plastic sheeting place in container.
Reset grid string lines.
Dry decon excavator bucket over container #3.
Reinstall fence mat'ls around containers and site. Place labels on #3 roll off container.
1600 Setup to extract confirmatory samples from newly excavated area. Extracted 9 samples
Clean/decon sampling mat'ls after each event.
Note: While excavating soil at site - excavator bucket made contact with 4" underground conduit - electric. Pierced conduit and hit interior wire which caused a shorted condition The feeder conduit & wire fed the refrig. compressors. 1 - 800 fuse blew out, tripped Ckt: Isolated the failed circuit wire, Installed a by pass link in place of the fuse and returned to power capacity to the compressor units. →

Tested the compressor circuit with amprobe system draws average 260 Amps. on a 400 Amp wire (500 MCM). Compressor room equip out of operation for 1½ h. - No loss of refrigerated goods as per Manager - Paul St. Pierre.
P/U electric mat'ls from Gilman Electric to make temporary fuse links, ordered 800 A Fuse to be delivered tomorrow.

Dry decon excavator bucket, over roll off container #3.
Affix PCB labels & Haz Mat'l label to containers #3.

Make site detail to show sample locations
#42 CS-4-7-WBS, #43 CS-4-7-WSW-1, #44 CS-4-7-NSW-1
#45 CS-4-7-SSW-1, #46 CS-7-7-WSW-1 #47 CS-7-7-WSW-1
#48 CS-7-7-SSW-1, #49 CS-7-7-ESW-1 #50 CS-9-7-BS

Weather: AM 55° PM 75° sun/clouds. late rain drizzle

Secure site.
Return to Hotel to complete paperwork, reports...

VAN.

BNAS - PCB c/u.

8-30-02(F)

On Site: 0700
Depart: 1630
End Day:

Rich: Proj Supervisor

Mobilize to site extract 10 additional soil samples. Prepare for P/U by courier - Analytics Lab. Prepare chain of custody...
Extract samples - confirmatory
#51 CS-9-7-ESW-1, #52 CS-6-7-BS, #53 CS-2-7-BS-1
#54 CS-2-7-BS-2, #55 CS-3-7-BS-1, #56 CS-2-7-WSW-1
#57 CS-2-7-WSW-1, #58 CS-6-7-ESW-1, #59 CS-6-7-ESW-2
#60 CS-9-7-ESW-2
Clean sample mat'ls after each sample event.

Claudia (MDEP) on site 0930 to review project status, sampling results, ongoing sampling activities.

Completed sampling.
P/U Fuse from Gilman electric plus other mat'l ordered electric wire insulators & wire repair mat'l from Cooper Electric, Springfield NJ.

Weather: AM 54° sun/clouds, cool
PM 75° sun/clouds, cool

Rich: Complete reports...

Van: 28 mi

RLY

9-2-02(M) LABOR DAY - OFF
1700 - 2030
Returned to BNAS to complete repairs to electric - compressor room Feeder. Shut down comp. & End 1930
Cleaned damaged wire - re-insulate & coat with electric insulating paint. Install new fuse - 800 A. Reconnect feeder wires to phase lugs in transfer sw & main disconnect.
Megger test phase wires to identify phase/phase or phase/ground short. OK - circuit wires clear.
Re-energize compressor feed circuit 2030.
Secure site.

8-30-02 P/U Electrical Mat'l - Cooper Electric - N.J. for work - repairs.
P/U Crimp tools mat'l from Home.

9-2-02 Return to BNAS.

Van: —

BNAS - PCB c/u.

9-3-02 (T)

On Site: 0700
Depart: 1730
End Day: 1830

Rich: Prop Supvr
Laborer: Gary M.
Equip: Excavator

Mobilize to Site to meet delivery of & P/U of another rolloff container #4 (delivered) #3 container P/U. Ameritech Env. on site 0740. Moved rolloff containers to place new one & remove one. School bus activity restricted operations. Had manifest signed by Dave Mosher - BNAS. Truck loaded with containers, left site 1100 hr.

Josh called with analytical results - confirm samples. Reviewed results. Called Claudia (at her request) to review. Need to dig at N.E corner of Grid 3. Excavate soil by hand due to presence of electrical conduit - U/G. Loaded into bucket of excavator - deposit soil into rolloff container #2. Dry decon bucket over rolloff. Wet decon bucket over container. Low fall - light. Use alconox solution, rinse with water. Close rolloff container, place solid waste - paper towels from decon, booties... etc into rolloff.

Extract 2 confirmatory samples from excavated area Grid #3.

Extract CS-3-8-BS; CS-3-8-ESW-2

Decon sample equip after each sample event. Wipe sample (2) spots on excavator bucket. Pat dry a spot with paper towel. Wipe sample an external & internal spot →

on each bucket side. WS-E-1; WS-I-1.

Called Analytics Lab to confirm sampling of rinsate water. Extract water samples (10) of rinsate water. Place samples in cooler completed chain of custody. Courier picked up samples 1600 hr.

Rich / Gary - secure site, install fence clean up.

Rich: return to Hotel to complete paperwork, reports...

Spoke to Claudia S. (MDEP) 1300 hr to discuss latest confirmatory sample results and subsequent remedial actions. 1 sample over 1.0 ppm.

Spoke to Frank S. (Efane) to discuss project status. 1130 hr

Spoke to Dan S to review project status & next procedures 1730 hr

Weather: AM 50° overcast, rain, cool
PM 60° overcast, rain, cool

Gary M - arrival on site 1415 hr from NSY as dispatched by Dan S.

Van: 48 mi →

Samples:
CS-3-8-BS-2 (1445) CS-3-8-ESW-1 (1500)
Wipe Samples: WS-E-1 (1510) (External) - PCB
WS-I-1 (1515) (Internal) - "
Rinsate Samples:
RW-1 (1515) Pest/PCB 8081, 82
RW-2 (1520) TPH 8100
RW-3 (1530) SVOC 8270
RW-4 (1525) Reactive Cn & S
RW-5 (1540) Flashpoint
RW-6 (1545) " "
RW-7 (1550) PH.
RW-8 (1555)
RW 9 (1556)
RW10 (1557)

RLL

9-5-02 (TH)

On Site: 0700
Depart: 1730
End Day:

Rich: Proj Super
Labor: Gary H.
Operator: Bill I.

0700 Conduct H&S briefing. Inspect equip - excavator. Began to shuttle sand from parking lot area to open excavation. Combined 3/4" Stone with sand pile.
0730 AmerTech on site to pick up roll off container #2 containing PCB soils. Loaded container, prepare manifest, signed by Dale Hopkins. Unmatched off site 1030 h.
Continued to shuttle sand from parking lot to excavation, level and compact with bucket.
Called H Crooks to confirm backfill mat'l delivery and type. - (Rick Towers) Called Nations Rent to confirm P/U of excavator - delivery of front end loader. (John Brown)
Called Vinfors several times.
Cleaned parking lot area & street - broom swept.
Received delivery of bankrun 2" from H. Crooks but delivery @ 20.26 T. 118275, received 2nd delivery of same mat'l. @ 13.47 TON # 118279
Level mat'l.
Front end loader delivered to site 1430 h.
Graded backfill mat'l and roll compact with machine.
Claudia Sant received faxed information regarding sampling results and 3 sample location diagrams.
→

Confirmed and approved backfilling procedure. Left message on cellphone — very good job.
Tony Williams on site to check project status. Excellent job.
Nations Rent left excavator on site. Will pickup later.
H. Crosby delivered 10 cu yds of screened topsoil 1600 hr. Ticket # 88757; delivered another 10 cu yds Ticket # 88758. Spoke to Dan S. regarding additional mat'l for site — OK - increase PO by 10 cu yds Topsoil.
Spread, level topsoil with loader. Shovel, rake, level as needed. Prepare area for seeding.
Remove orange safety fence & posts. Load on P/U truck - (Gary.)
Place concrete slab at compressor room door area.
Secure site.

Complete reports 8.0 hr charged

Weather: AM 57° PM 80° clear, sunny, cool/warm, light breeze.

End of day: P/U Grass seed from Home Depot

VAN: 40.0 mi + 72.0

9-6-02 (F)

On Site: 0800
Depart: 1630

Rick: Proj Superv.

0800. Called Nations Rent to off rent - front end loader, OK.
Rake level the site, top soil layer. Broadcast grass seed and rake into soil.
Water down the new top soil & grass seed area.
Went to Agway to pick up 6 bales of straw. Broadcast straw over seeded area.
Place extra bales at catch basins, to provide silt deposit non-pf protection.
Move mat'ls into compressor room area.
Store chain link fence on site.
Secure site.

Excavator picked up from site.
Complete paperwork, reports.

Weather: AM 56° PM 80° clear, sunny, cool-warm

VAN: 40.0 mi.

9-4-03 (W) On Site: 0800
Depart: 1630

Rich: Proj Super

Prepare drawings – site sample location diagrams & sample data – for Claudia – NDCP
Fax copies.
Work reports...

Overcast, rainy day. No work performed at site. Awaiting sample results – confirmatory samples – (last) #61, 62.

Work at Infiltration Gallery – remove silt fence.

Answer E-Mails. Request charge #'s from Tom

BNAS – PCB cleanup – 3.0 hr
2282.0033.9201.00000

Infiltration Gallery 5.0 hr

VAN:

9-9-02 (M) On Site: 0800
Depart: 1630

Rich: Proj Super

Mobilize to site - Gallery
Called Casaro Dumpster to confirm delivery of 40 cyd container - to be delivered Tues. 9-10-02
Began set up of irrigation sprinkler unit - set up sprinkler tripod, noted fittings needed.
Go to Grainger to P/U 250' Hose - 2" water & fittings. Return to site to set up hoses, started system, to test. Sprinkler Head produces too much pressure - pushes tripod over. Set up to mount sprinkler riser & head to existing cart. Drill & install unistrut brackets
Jim T. disappointed with sprinkler set up
Review with Jim Tay -
PCB site - Commissary.
P/U sprinkler - return to site to set up water hose to irrigate seeded area.
P/U fence mat'ls - deliver to P/W area - BNAS.
Return several times to relocate sprinkler head. Clean area around catch basin.
4th roll off container was picked up.
Front end loader picked up.

P/U mat'l - Grainger - Portland, ME

Weather: AM 76° PM 93° Clear, sunny, hot - humid

VAN: 123.0

Appendix H

Waste Characterization Sample Results

analytics environmental laboratory LLC

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analytics@analyticslab.com

Mr. Josh Holden
Foster Wheeler Environmental Corp.
P.O. Box 6067
Middletown RI 02842

Report Number: 47084

Revision: Rev. 0

RECEIVED
APR - 2 2002

Re: CTO 3, Soil Pile Removal **CTO 3/Task 2**

Enclosed are the results of the analyses on your sample(s). Samples were received on 19 March 2002 and analyzed for the tests listed below. Samples were received in acceptable condition, with the exceptions noted below or on the chain of custody. Please see individual reports for specific methodologies and references.

Lab Number	Sample Date	Station Location	Analysis	Comments
47084-1	03/19/02	SP-WC1	Cyanide Reactivity	
	03/19/02	SP-WC1	EPA 1010 Flashpoint	
	03/19/02	SP-WC1	EPA 8081/8082 Pesticides and PCBs	
	03/19/02	SP-WC1	EPA 8100 - TPH	
	03/19/02	SP-WC1	EPA 8260 Volatile Organics	
	03/19/02	SP-WC1	EPA 8270 Acid/Base Neutrals	
	03/19/02	SP-WC1	RCRA Metals	
	03/19/02	SP-WC1	Sulfide Reactivity	
	03/19/02	SP-WC1	SW-846 9045 pH in Solid	
47084-2	03/19/02	SP-WC2	Cyanide Reactivity	
	03/19/02	SP-WC2	EPA 1010 Flashpoint	
	03/19/02	SP-WC2	EPA 8081/8082 Pesticides and PCBs	
	03/19/02	SP-WC2	EPA 8100 - TPH	
	03/19/02	SP-WC2	EPA 8260 Volatile Organics	
	03/19/02	SP-WC2	EPA 8270 Acid/Base Neutrals	

Sample Receipt Exceptions: None

Analytics Environmental Laboratory is certified by the states of New Hampshire, Maine, Massachusetts, North Carolina and is validated by the U.S. Army Corps of Engineers. A list of actual certified parameters is available upon request.

If you have any further question on the analytical methods or these results, do not hesitate to call.

Authorized signature

Date 3/26/2002

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Mr. Josh Holden
Foster Wheeler Environmental Corp.
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Report Number: 47084

Revision: Rev. 0

Re: CTO 3, Soil Pile Removal

CTO 3/Task 2

Enclosed are the results of the analyses on your sample(s). Samples were received on 19 March 2002 and analyzed for the tests listed below. Samples were received in acceptable condition, with the exceptions noted below or on the chain of custody. Please see individual reports for specific methodologies and references.

Lab Number	Sample Date	Station Location	Analysis	Comments
	03/19/02	SP-WC2	RCRA Metals	
	03/19/02	SP-WC2	Sulfide Reactivity	
	03/19/02	SP-WC2	SW-846 9045 pH in Solid	
47084-3	03/19/02	SP-WC3	Cyanide Reactivity	
	03/19/02	SP-WC3	EPA 1010 Flashpoint	
	03/19/02	SP-WC3	EPA 8081/8082 Pesticides and PCBs	
	03/19/02	SP-WC3	EPA 8100 - TPH	
	03/19/02	SP-WC3	EPA 8260 Volatile Organics	
	03/19/02	SP-WC3	EPA 8270 Acid/Base Neutrals	
	03/19/02	SP-WC3	RCRA Metals	
	03/19/02	SP-WC3	Sulfide Reactivity	
	03/19/02	SP-WC3	SW-846 9045 pH in Solid	
47084-4	03/19/02	SP-WC5	Cyanide Reactivity	
	03/19/02	SP-WC5	EPA 1010 Flashpoint	
	03/19/02	SP-WC5	EPA 8081/8082 Pesticides and PCBs	

Sample Receipt Exceptions: None

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Date 3/26/2002

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Foster Wheeler Environmental Corp.
P.O. Box 6067
Middletown RI 02842

Report Number: 47084

Revision: Rev. 0

Re: CTO 3, Soil Pile Removal

CTO 3/Task 2

Enclosed are the results of the analyses on your sample(s). Samples were received on 19 March 2002 and analyzed for the tests listed below. Samples were received in acceptable condition, with the exceptions noted below or on the chain of custody. Please see individual reports for specific methodologies and references.

Lab Number	Sample Date	Station Location	Analysis	Comments
	03/19/02	SP-WC5	EPA 8100 - TPH	
	03/19/02	SP-WC5	EPA 8260 Volatile Organics	
	03/19/02	SP-WC5	EPA 8270 Acid/Base Neutrals	
	03/19/02	SP-WC5	RCRA Metals	
	03/19/02	SP-WC5	Sulfide Reactivity	
	03/19/02	SP-WC5	SW-846 9045 pH in Solid	
47084-5	03/19/02	TFS-WC1	Cyanide Reactivity	
	03/19/02	TFS-WC1	EPA 1010 Flashpoint	
	03/19/02	TFS-WC1	EPA 8081/8082 Pesticides and PCBs	
	03/19/02	TFS-WC1	EPA 8100 - TPH	
	03/19/02	TFS-WC1	EPA 8260 Volatile Organics	
	03/19/02	TFS-WC1	EPA 8270 Acid/Base Neutrals	
	03/19/02	TFS-WC1	RCRA Metals	
	03/19/02	TFS-WC1	Sulfide Reactivity	
	03/19/02	TFS-WC1	SW-846 9045 pH in Solid	

Sample Receipt Exceptions: None

Analytics Environmental Laboratory is certified by the states of New Hampshire, Maine, Massachusetts, North Carolina and is validated by the U.S. Army Corps of Engineers. A list of actual certified parameters is available upon request.

If you have any further question on the analytical methods or these results, do not hesitate to call.

Authorized signature Stephen L. Kelly MSR

Date 3/26/2002

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Mr. Josh Holden
Foster Wheeler Environmental Corp.
P.O. Box 6067
Middletown RI 02842

March 21, 2002

SAMPLE DATA

Lab Sample ID: 47084-5
Matrix: Solid
Percent Solid: 82
Dilution Factor: 119
Collection Date: 03/19/02
Lab Receipt Date: 03/19/02
Analysis Date: 03/20/02

CLIENT SAMPLE ID

Project Name: CTO 3, Soil Pile Removal

Project Number: CTO 3/Task 2
Field Sample ID: TFS-WC1

ANALYTICAL RESULTS VOLATILE ORGANICS

COMPOUND	Quantitation Limit µg/kg	Result µg/kg	COMPOUND	Quantitation Limit µg/kg	Result µg/kg
Benzene	120	U	1,3-Dichloropropane	120	U
Bromobenzene	120	U	cis-1,3-Dichloropropene	120	U
Bromochloromethane	120	U	trans-1,3-Dichloropropene	120	U
Bromodichloromethane	90	U	2,2-Dichloropropane	120	U
Bromoform	90	U	1,1-Dichloropropene	120	U
Bromomethane	120	U	Ethylbenzene	120	U
n-butylbenzene	120	U	Hexachlorobutadiene	120	U
sec-butylbenzene	120	U	Isopropylbenzene	120	U
tert-butylbenzene	120	U	p-isopropyltoluene	120	U
Carbon Tetrachloride	120	U	Methylene Chloride	300	U
Chlorobenzene	120	U	Methyl-tert-butyl ether	120	U
Chloroethane	120	U	Naphthalene	120	U
Chloroform	90	U	n-Propylbenzene	120	U
Chloromethane	120	U	Styrene	120	U
2-Chlorotoluene	120	U	1,1,1,2-Tetrachloroethane	120	U
4-Chlorotoluene	120	U	1,1,2,2-Tetrachloroethane	90	U
Dibromochloromethane	90	U	Tetrachloroethene	120	U
1,2-Dibromo-3-chloropropane	120	U	Toluene	120	U
1,2-Dibromoethane	90	U	1,2,3-Trichlorobenzene	120	U
Dibromomethane	120	U	1,2,4-Trichlorobenzene	120	U
1,2-Dichlorobenzene	120	U	1,1,1-Trichloroethane	120	U
1,3-Dichlorobenzene	120	U	1,1,2-Trichloroethane	90	U
1,4-Dichlorobenzene	120	U	Trichloroethene	120	U
Dichlorodifluoromethane	120	U	Trichlorofluoromethane	120	U
1,1-Dichloroethane	120	U	1,2,3-Trichloropropane	120	U
1,2-Dichloroethane	90	U	1,2,4-Trimethylbenzene	120	U
1,1-Dichloroethene	90	U	1,3,5-Trimethylbenzene	120	U
cis-1,2-Dichloroethene	120	U	Vinyl Chloride	120	U
trans-1,2-Dichloroethene	120	U	o-Xylene	120	U
1,2-Dichloropropane	90	U	m,p-Xylene	120	U
Acetone	1200	U	Diethyl ether	120	U
Carbon Disulfide	120	U	2-Hexanone	1200	U
Tetrahydrofuran	600	U	Methyl isobutyl ketone	1200	U
Methyl ethyl ketone	1200	U	Di-isopropyl ether	120	U
t-Butyl alcohol	4800	U	Ethyl t-butyl ether	120	U
t-Amyl methyl ether	120	U			

Surrogate Standard Recovery

d4-1,2-Dichloroethane	87 %	d8-Toluene	93 %	Bromofluorobenzene	84 %

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis was conducted according to: Test Methods for Evaluating Solid Waste, SW-846 Method 8260B.

COMMENTS: Results are expressed on a dry weight basis.

8260 full

Authorized signature

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Mr. Josh Holden
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P.O. Box 6067
Middletown RI 02842

March 25, 2002

SAMPLE DATA

Lab Sample ID:	47084-5
Matrix:	Solid
Percent Solid:	82
Dilution Factor:	1.2
Collection Date:	03/19/02
Lab Receipt Date:	03/19/02
Extraction Date:	03/20/02
Analysis Date:	03/22/02

CLIENT SAMPLE ID

Project Name:	CTO 3, Soil Pile Removal
Project Number:	CTO 3/Task 2
Field Sample ID:	TFS-WC1

PAGE ONE

ANALYTICAL RESULTS SEMI-VOLATILE ORGANICS

ACID COMPOUND	Quantitation Limit µg/kg	Result µg/kg	ACID COMPOUND	Quantitation Limit µg/kg	Result µg/kg
2-Chlorophenol	300	U	Pentachlorophenol	300	U
4-Chloro-3-methylphenol	300	U	Phenol	300	U
2,4-Dichlorophenol	300	U	2,4,5-Trichlorophenol	300	U
2,4-Dimethylphenol	300	U	2,4,6-Trichlorophenol	300	U
2,4-dinitrophenol	300	U	Benzoic Acid	300	U
4,6-Dinitro-2-methylphenol	300	U	2-Methylphenol	300	U
2-Nitrophenol	300	U	3+4-Methylphenol	300	U
2,6-Dichlorophenol	300	U	Benzyl Alcohol	300	U
4-Nitrophenol	300	U	2,3,4,6-Tetrachlorophenol	300	U

Acid Surrogate Standard Recovery

2-Fluorophenol	72	%	d5-Phenol	75	%	2,4,6-Tribromophenol	80	%

BASE NEUTRAL COMPOUND	Quantitation Limit µg/kg	Result µg/kg	BASE NEUTRAL COMPOUND	Quantitation Limit µg/kg	Result µg/kg
1,2-Dichlorobenzene	300	U	Hexachlorobenzene	300	U
1,3-Dichlorobenzene	300	U	Benzidine	300	U
1,4-Dichlorobenzene	300	U	3,3'-Dichlorobenzidine	300	U
2,4-Dinitrotoluene	300	U	Azobenzene	300	U
2,6-Dinitrotoluene	300	U	Bis(2-chloroethoxy)methane	300	U
Nitrobenzene	300	U	bis(2-chloroethyl) ether	300	U
Hexachlorobutadiene	300	U	bis(2-chloroisopropyl)ether	300	U
Dimethyl Phthalate	300	U	4-bromophenyl phenyl ether	300	U
Di-n-butyl phthalate	300	U	Butyl benzyl phthalate	300	U
di-n-octyl-phthalate	300	U	4-Chlorophenyl phenyl ether	300	U
Bis (2-ethylhexyl) phthalate	300	U	Diethyl Phthalate	300	U
1,2,4-Trichlorobenzene	300	U	Hexachlorocyclopentadiene	300	U

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis was conducted according to: Test Methods for Evaluating Solid Waste, SW-846 Method 8270C.

Authorized signature

8270/625 layout

analytics environmental laboratory LLC

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Mr. Josh Holden
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P.O. Box 6067
Middletown RI 02842

March 25, 2002

SAMPLE DATA

Lab Sample ID:	47084-5
Matrix:	Solid
Percent Solid:	82
Dilution Factor:	1.2
Collection Date:	03/19/02
Lab Receipt Date:	03/19/02
Extraction Date:	03/20/02
Analysis Date:	03/22/02

CLIENT SAMPLE ID

Project Name:	CTO 3, Soil Pile Removal
Project Number:	CTO 3/Task 2
Field Sample ID:	TFS-WC1

ANALYTICAL RESULTS SEMI-VOLATILE ORGANICS

BASE NEUTRAL COMPOUND	Quantitation Limit µg/kg	Result µg/kg	BASE NEUTRAL COMPOUND	Quantitation Limit µg/kg	Result µg/kg
Acenaphthene	300	U	N-nitrosodimethylamine	300	U
Acenaphthylene	300	U	N-nitroso-di-n-propylamine	300	U
Anthracene	300	U	n-nitrosodiphenylamine	300	U
Benzo[a]anthracene	300	**342**	Pyridine	300	U
Benzo[a] pyrene	300	**350**	2-Methylnaphthalene	300	U
Benzo[b] fluoranthene	300	**391**	2-Chloronaphthalene	300	U
Benzo[k] fluoranthene	300	**339**	Naphthalene	300	U
Benzo(g,h,i) perylene	300	U	Phenanthrene	300	**231 J**
Chrysene	300	**376**	Dibenzofuran	300	U
Dibenz [a,h] anthracene	300	U	Aniline	300	U
Fluoranthene	300	**456**	4-Chloroaniline	300	U
Fluorene	300	U	2-Nitroaniline	300	U
Indeno [1,2,3-cd] pyrene	300	**174 J**	3-Nitroaniline	300	U
Pyrene	300	**406**	4-Nitroaniline	300	U
Hexachloroethane	300	U	Carbazole	300	U
Isophorone	300	U			

Base Neutral Surrogate Standard Recovery

2-Fluorobiphenyl	77	%	d5-nitrobenzene	71	%	d14-p-terphenyl	68	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis was conducted according to: Test Methods for Evaluating Solid Waste, SW-846 Method 8270C.

COMMENTS: Results are expressed on a dry weight basis.

8270/625 layout

Authorized signature

analytics environmental laboratory LLC

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800-929-9906

Mr. Josh Holden
Foster Wheeler Environmental Corp.
P.O. Box 6067
Middletown RI 02842

March 26, 2002

SAMPLE DATA

Lab Sample ID: 47084-5
Matrix: Solid
Percent Solid: 82
Dilution Factor: 12
Collection Date: 03/19/02
Lab Receipt Date: 03/19/02
Extraction Date: 03/20/02
Analysis Date: 03/20/02 **PCB Analyzed:** 03/20/02

CLIENT SAMPLE ID

Project Name: CTO 3, Soil Pile Removal
Project Number: CTO 3/Task 2
Field Sample ID: TFS-WC1

PESTICIDE AND PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/kg	Results µg/kg	COMPOUND	Quantitation Limit µg/kg	Results µg/kg
Aldrin	120	U	Endrin Ketone	120	U
a-BHC	120	U	Heptachlor	120	U
b-BHC	120	U	Heptachlor Epoxide	120	U
d-BHC	120	U	Methoxychlor	240	U
g-BHC	120	U	Chlordane	120	U
4,4'-DDD	120	U	Toxaphene	790	U
4,4'-DDE	120	U	PCB-1016	36000	U
4,4'-DDT	120	U	PCB-1221	36000	U
Dieldrin	120	U	PCB-1232	36000	U
Endosulfan I	120	U	PCB-1242	36000	U
Endosulfan II	120	U	PCB-1248	36000	U
Endosulfan Sulfate	120	U	PCB-1254	36000	**1270000**
Endrin	120	U	PCB-1260	36000	U
Endrin Aldehyde	120	U			

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	68	%
Decachlorobiphenyl	89	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8081/82.

COMMENTS: Results are expressed on a dry weight basis.

Authorized signature Steve L. Kelly MGR

608/8081/8082

analytics environmental laboratory LLC

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800-929-9906

Mr. Josh Holden
Foster Wheeler Environmental Corp.
P.O. Box 6067
Middletown RI 02842

March 26, 2002

SAMPLE DATA

Lab Sample ID:	47084-5
Matrix:	Solid
Percent Solid:	82
Dilution Factor:	1.2
Collection Date:	03/19/02
Lab Receipt Date:	03/19/02
Extraction Date:	03/20/02
Analysis Date:	03/25/02

CLIENT SAMPLE ID

Project Name:	CTO 3, Soil Pile Removal
Project Number:	CTO 3/Task 2
Field Sample ID:	TFS-WC1

ANALYTICAL RESULTS TOTAL PETROLEUM HYDROCARBONS

Result	Units	Quantitation Limit
175	mg/kg	6

Surrogate Standard Recovery

m-Terphenyl	117	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Aqueous samples prepared by Separatory Funnel Liquid/Liquid Extraction, "Test Methods for Evaluating Solid Waste," Method 3510; other matrices prepared by Sonication Extraction, "Test Methods for Evaluating Solid Waste," Method 3550B.

All matrices analyzed according to "Test Methods for Evaluating Solid Waste, SW-846 Method 8100"

COMMENTS: Results are expressed on a dry weight basis.

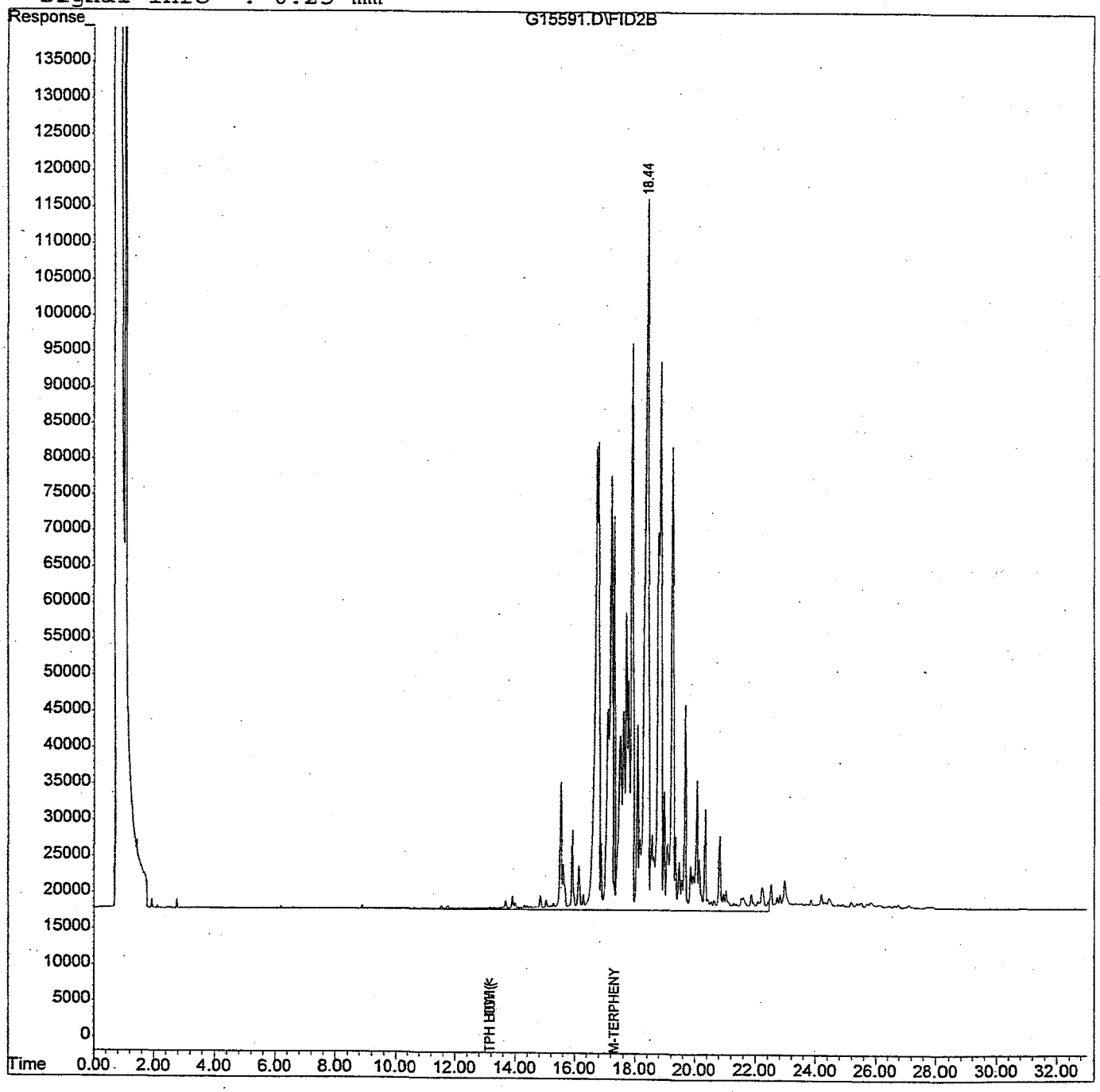
8100

Authorized signature

Data File : D:\HPCHEM\2\DATA\032502-G\G15591.D Vial: 10
Acq On : 25 Mar 2002 2:11 pm Operator: MT
Sample : 47084-5 Inst : Instr. G
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Mar 25 14:51 2002 Quant Results File: T02122.RES

Quant Method : C:\HPCHEM\2\METHODS\T02122.M (Chemstation Integrator)
Title : DRO
Last Update : Tue Mar 12 08:55:13 2002
Response via : Multiple Level Calibration
DataAcq Meth : TPHB.M

Volume Inj. : 1ul
Signal Phase : Rtx-5MS
Signal Info : 0.25 mm



analytics environmental laboratory LLC

195 Commerce Way
Portsmouth, New Hampshire 03801
603-436-5111 Fax 603-430-2151
800-929-9906

Mr. Josh Holden
Foster Wheeler Environmental Corp.
P.O. Box 6067
Middletown RI 02842

March 26, 2002

CLIENT SAMPLE ID

Project Name: CTO 3, Soil Pile Removal
Project Number: CTO 3/Task 2
Client Sample ID: TFS-WC1

SAMPLE DATA

Lab Sample ID: 47084-5
Matrix: Solid
Percent Solid 82%
Collection Date: 03/19/02 9:45
Lab Receipt Date: 03/19/02

Parameter	Result	Date Analyzed	Detection Limit	Units
pH	**6.05**	03/21/02	NA	pH units
Flashpoint	>165	03/22/02	NA	° Fahrenheit
Sulfide Reactivity	U	03/21/02	12	mg/kg
Cyanide Reactivity	U	03/21/02	12	mg/kg

U = Undetected NA = Not Applicable <=Less than >=Greater than

METHODOLOGY: pH: Sample analyzed according to "EPA SW 846 Method 9045 pH in solid"
FlashPoint: Sample analysis was conducted according to "Test Methods for Evaluating Solid Waste, EPA SW-846, Method 1010."
Reacitivty: Sulfide reactivity analysis was conducted according to "Test Methods for Evaluating Solid Waste, SW-846, Sulfide by Modified Method 7.3.4.2."
Cyanide reactivity analysis was conducted according to "Test Methods for Evaluating Solid Waste, SW-846, Cyanide by Modified Method 7.3.3.2."

COMMENTS: ***Results are expressed on a dry weight basis.**

Authorized signature

SEVERN TRENT SERVICES

STL Chicago

SEVERN TRENT LABORATORIES ANALYTICAL REPORT

JOB NUMBER: 208711

Prepared For:

Analytics Environmental Laboratory, LLC
195 Commerce Way
Suite E
Portsmouth, NH 03801

Project: New Brunswick Naval Station CTO 3

Attention: Steve Knollmeyer

Date: 03/25/2002

Signature

Date 3/25/02

Name: Bosco M. Ramirez

Title: Project Manager

E-Mail: bramirez@stl-inc.com

STL Chicago
2417 Bond Street
University Park, IL 60466

PHONE: (708) 534-5200
FAX..: (708) 534-5211

STL Chicago is part of Severn Trent Laboratories, Inc.

Severn Trent Laboratories - Chicago
METALS CASE NARRATIVE

Client: Analytics Environmental Laboratory, LLC
Date Rec'd: 03/20/02
Project ID: Task 2 Soil Pile
STL#: 208711

1. This narrative covers the metals analysis for samples received in the above Job # 208711.

   Method Refs: USEPA,SW-846

2. All analyses were performed within the required holding times.

3. All Initial and Continuing Calibration Verification (ICV/CCV's) were within control limits.

4. All Initial and Continuing Calibration Blanks (ICB/CCB's) were within control limits.

5. All Preparation/Method Blanks were below Reporting Limits (RL).

6. All ICP Interference Check Samples (ICSA and ICSAB) were within control limits.

7. Laboratory Control Sample (LCS) recoveries were within the 80-120% control limits.

8. Matrix QC was performed on sample 1 for ICP Metals.

   All Serial dilution analysis were within control limits.

   All Matrix spike (MS/MSD) recoveries were within the 75-125% control limits (control limits are not applicable when the sample concentration exceed the spike added concentration by a factor of 4 or more) except for Lead.

   All Duplicate results were within the 20% Relative Percent Difference (RPD) control limits for sample concentration greater than 5X the CRDL or +\- the CRDL for sample concentration less than 5X the RL except for Lead.

Mani S.Iyer
Metals Section Manager

3/25/02
Date

SEVERN TRENT SERVICES

STL Chicago

SAMPLE INFORMATION
Date: 03/25/2002

Job Number.: 208711
Customer...: Analytics Environmental Laboratory, LLC
Attn.....: Steve Knollmeyer

Project Number.....: 20002061
Customer Project ID....: TASK 2 SOIL PILE
Project Description....: New Brunswick Naval Station CTO 3

Laboratory Sample ID	Customer Sample ID	Sample Matrix	Date Sampled	Time Sampled	Date Received	Time Received
208711-1	SP-WC1	Soil	03/19/2002	09:00	03/20/2002	09:45
208711-2	SP-WC2	Soil	03/19/2002	09:05	03/20/2002	09:45
208711-3	SP-WC3	Soil	03/19/2002	09:10	03/20/2002	09:45
208711-4	SP-WC5	Soil	03/19/2002	09:15	03/20/2002	09:45
208711-5	TFS-WC1	Soil	03/19/2002	09:45	03/20/2002	09:45

SEVERN TRENT SERVICES

LABORATORY TEST RESULTS

Job Number: 208711

Date:03/25/2002

CUSTOMER: Analytics Environmental Laboratory, LLC

PROJECT: TASK 2 SOIL PILE

ATTN: Steve Knollmeyer

Customer Sample ID: TFS-WC1
Date Sampled.....: 03/19/2002
Time Sampled.....: 09:45
Sample Matrix.....: Soil

Laboratory Sample ID: 208711-5
Date Received.....: 03/20/2002
Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
Method	% Solids Determination											
	% Solids, Solid	87.2			0.10	0.10	1	%	47349		03/20/02 1540	pfk
	% Moisture, Solid	12.8			0.10	0.10	1	%	47349		03/20/02 1540	pfk
7471A	Mercury (CVAA) Solids											
	Mercury, Solid*	0.025	B		0.0062	0.038	1	mg/Kg	47545		03/21/02 1640	gok
6010B	Metals Analysis (ICAP Trace)											
	Arsenic, Solid*	5.0			0.27	0.71	1	mg/Kg	47513		03/21/02 2130	lmr
	Barium, Solid*	33.9			0.065	0.71	1	mg/Kg	47513		03/21/02 2130	lmr
	Cadmium, Solid*	0.14	U		0.070	0.14	1	mg/Kg	47513		03/21/02 2130	lmr
	Chromium, Solid*	17.3			0.11	0.71	1	mg/Kg	47513		03/21/02 2130	lmr
	Lead, Solid*	17.7			0.27	0.36	1	mg/Kg	47513		03/21/02 2130	lmr
	Selenium, Solid*	0.71	U		0.33	0.71	1	mg/Kg	47513		03/21/02 2130	lmr
	Silver, Solid*	0.36	U		0.14	0.36	1	mg/Kg	47535		03/22/02 0100	tds

046/084

* In Description = Dry Wgt.

STL 208711

analytics environmental laboratory LLC

195 Commerce Way Suite E
Portsmouth, NH 03801
Phone (603) 436-5111
Fax (603) 430-2151

For Analytics Use Only Rev 2/00

Samples were:
1) Shipped or hand-delivered
2) Temp blank °C 3.4
3) Received in good condition Y or N
4) pH checked by: N/A
5) Labels checked by: JZ

Project#: CTO 3 /TASK 2 Proj. Name: CTO 3 Soil Pile Removal

Company: ANALYTICS

Contact: Stephen Knollmeyer

Address: 195 COMMERCE WAY
PORTSMOUTH, NH 03801

Phone: 603-436-5111 PO# Quote #

Sampler (Signature): Dan Sullivan

Matrix Key: WW=Wastewater, SW=Surfacewater, GW=Groundwate, DW=Drinkingwater, S=Soil/Sludge, O=Oil, F=Extract, X=Other

Container Key: P=plastic G=glass

Preservation

Station Identification	Sample Date	Sample Time	Analysis	Unpres	4°C	HNO3	H2SO4	HCL	Other	Matrix	Container number/type		pH	Analytics Sample #
SP-WC1	3-19-02	09:00	RCRA 8 Metals (6010/7471)		X					S	1	G		47084-1
SP-WC2	3-19-02	09:05			X					S	1	G		2
SP-WC3		09:10			X					S	1	G		3
SP-WC5		09:15			X					S	1	G		4
TFS-WC1		09:45			X					S	1	G		5

	Received By:	Time:	Date:	Relinquished By Sampler:
	UPS	16:30	03/19/02	Philippa Arnold
		0945	3/20/02	Relinquished By:

FAX RESULTS? YES NO
Fax #: 603-430-2151

Turnaround Request
Standard ☐ Due Date
Priority ☒ Due Date 03/26/02

Comments / Instructions:
Please reference Station ID number and AEL Lab number on report(s).
* Due date as per Conversation with Bosco Raimeriz

Temp - 3.4

Page 1 of 1

083/084

Analytics\AEL Documents\AEL COC

MITKEM CORPORATION
175 Metro Center Boulevard
Warwick, Rhode Island 02886-1755
(401) 732-3400 • Fax (401) 732-3499
email: mitkem@mitkem.com

CHAIN-OF-CUSTODY RECORD

REPORT TO		INVOICE TO		
COMPANY Foster wheeler 401	PHONE 846-2366	COMPANY FWENC	PHONE 846-2366	LAB PROJECT #:
NAME DAN Sullivan 401	FAX 845-0627	NAME Accounts Payable	FAX 845-0627	
ADDRESS 1277 T - Defense hwy		ADDRESS PO Box 6067		TURNAROUND TIME:
CITY/ST/ZIP Middletown, RI 02842		CITY/ST/ZIP Middletown, RI, 02842		

CLIENT PROJECT NAME: CTO3, soil pile removal
CLIENT PROJECT #: CTO 3/TASK 2
CLIENT P.O.#:

REQUESTED ANALYSES

SAMPLE IDENTIFICATION	DATE/TIME SAMPLED	COMPOSITE	GRAB	WATER	SOIL	OTHER	LAB ID	# OF CONTAINERS	VOCs (8260)	SVOCs (8270)	PCBs (8082)	Pest (8081)	pH	Flash	RCRA8 (6010/7470)	Reactive Sulfide/Cyanide	TPH				COMMENTS
SP* - WC1	3/26 2002 / 0900	X			X			4	X	X	X	X	X	X	X	X	X				47084-1
- WC2	/ 0905	X			X			4	X	X	X	X	X	X	X	X	X				-2
- WC3	/ 0910	X			X			4	X	X	X	X	X	X	X	X	X				-3
SP - WC#5	3/26 / 0915	X			X			4	X	X	X	X	X	X	X	X	X				-4
TFS** - WC1	3/26 / 0945	X			X			4	X	X	X	X	X	X	X	X	X				-5

TSF#	RELINQUISHED BY	DATE/TIME	ACCEPTED BY	DATE/TIME
1	[signature]	3/19/02 / 1305	[signature]	3.19.02 / 1305
2		/		/
3		/		/

ADDITIONAL REMARKS:
COOLER TEMP UPON ARRIVAL 2.5°C
3/19/02 per Josh Hd due @ FWEC
date collected is 3/19/02 due date is 3/26/02
correctly made on COC

COOLER TEMP

* SP = Soil Pile

WHITE: LABORATORY COPY YELLOW: REPORT COPY PINK: CLIENT'S COPY

084/084

MITKEM CORPORATION

"Environmental Testing For The New Millennium"

July 16, 2002

Foster Wheeler Environmental Corp.
P.O. Box 660
Kittery, ME 03904
Attn: Mr. Josh Holden

RECEIVED
JUL 22 2002

RE: Client Project: CTO-3, Topsham Annex TCLP
Lab Project #: A1064

Dear Mr. Holden:

Enclosed please find the data report of the required analysis for the samples associated with the above referenced project. If you have any questions regarding this report, please call me.

We appreciate your business.

Sincerely,

Edward A. Lawler
Laboratory Operations Manager

175 Metro Center Boulevard • Warwick, Rhode Island 02886-1755
(401) 732-3400 • Fax (401) 732-3499 • email: mitkem@mitkem.com

MITKEM CORPORATION

Client: Foster Wheeler Environmental

Client Project: CTO-3, Topsham Annex

Lab Project: A1064

Date samples received: 7/11/02

Project Narrative

This data report includes the analysis results for one (1) soil sample that was received from Foster Wheeler Environmental on July 11, 2002. Analyses were performed per specification in the Chain of Custody form. For reference, a copy of the Mitkem Sample Log-In form is included for cross-referencing the client sample ID and laboratory sample ID.

All of the analyses were performed according to method specifications. Please note that results for TCLP parameters are reported in units of ug/L (ppb).

No unusual occurrences were noted during sample analysis.

The pages in this report have been numbered consecutively, starting from this narrative and ending with a page saying only "Last Page of Data Report".

This data report has been reviewed and is authorized for release as evidenced by the signature below.

Edward A. Lawler
Laboratory Operations Manager

MITKEM CORPORATION

Data Flag/Qualifiers:

U Not Detected. This compound was analyzed-for but not detected. For Organics analysis the reporting limit (lowest standard concentration) is the value listed. For Inorganics analysis, the value listed is the detection limit. For Inorganics analyzed using SW-846 methods, the detection limit is the Method Detection Limit, for Inorganics analyzed using EPA CLP and NY ASP CLP methods, the detection limit is the Instrument Detection Limit.

J For Organics analysis, this flag indicates an estimated value due to either
- the compound was detected below the reporting limit, or
- estimated concentration for Tentatively Identified Compound

B For Organic analyses, this flag indicates the compound was also detected in the associated Method Blank. The B flag has an alternative meaning for Inorganics analyses, indicating a "trace" concentration below the reporting limit and equal to or above the detection limit.

D For Organics analysis, this flag indicates the compound concentration was obtained from a diluted analysis

E For Organics analysis, this flag indicates the compound concentration exceeded the Calibration Range. The E flag has an alternative meaning for Inorganics analyses, indicating an estimated concentration due to the presence of interferences, as determined by the serial dilution analysis.

P This flag is used for Pesticides/PCB/Herbicide compound when there is a greater than 40% difference for detected concentration between the two GC columns used for Primary and Confirmation analyses. This difference typically indicates an interference, causing one value to be unusually high. The **lower** of the two values is reported in the Analysis Report.

A Used to flag Semivolatile Organic Tentatively Identified Compound library search results for compounds identified as aldol condensation byproducts.

N Used to flag results for Volatile and Semivolatile Organics analysis Tentatively Identified Compounds where an analyte has passed the identification criteria, and is considered to be positively identified. For Inorganics analysis the N flag indicates the matrix spike recovery falls outside of the control limit.

* For Inorganics analysis the * flag indicates Relative Percent Difference for duplicate analyses is outside of the control limit.

U.S. EPA - CLP

1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

TFS-WC1

Lab Name: MITKEM_CORPORATION_____ Contract: _____

Lab Code: MITKEM Case No.: _____ SAS No.: _____ SDG No.: A1064__

Matrix (soil/water): WATER_ Lab Sample ID: A1064-01A_____

Level (low/med): MED____ Date Received: 07/11/02____

% Solids: _____

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	30.0	U		P
7440-39-3	Barium	158	B		P
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	20.0	U		P
7440-70-2	Calcium				NR
7440-47-3	Chromium	30.0	U		P
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	10.0	U		P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury	1.0	U		CV
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium	80.0	U		P
7440-22-4	Silver	20.0	U		P
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
	Cyanide				NR

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments:

_____

_____

_____

_____

U.S. EPA - CLP

3
BLANKS

Lab Name: MITKEM_CORPORATION Contract: ___

Lab Code: MITKEM Case No.: ____ SAS No.: _____ SDG No.: A1064__

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum											
Antimony											
Arsenic	3.0	U	3.0	U	3.0	U			30.000	U	P
Barium	3.0	U	3.0	U	3.0	U			36.625	B	P
Beryllium											
Cadmium	2.0	U	2.0	U	2.0	U			20.000	U	P
Calcium											
Chromium	3.0	U	3.0	U	3.0	U			30.000	U	P
Cobalt											
Copper											
Iron											
Lead	1.0	U	1.0	U	1.0	U			10.000	U	P
Magnesium											
Manganese											
Mercury	0.1	U	0.1	U					1.000	U	CV
Nickel											
Potassium											
Selenium	8.0	U	8.0	U	8.0	U			80.000	U	P
Silver	2.0	U	2.0	U	2.0	U			20.000	U	P
Sodium											
Thallium											
Vanadium											
Zinc											
Cyanide											

U.S. EPA - CLP

7

LABORATORY CONTROL SAMPLE

Lab Name: MITKEM_CORPORATION_____ Contract: _____

Lab Code: MITKEM Case No.: _____ SAS No.: _____ SDG No.: A1064__

Solid LCS Source: _____

Aqueous LCS Source: HIGH_PURITY_

Analyte	Aqueous (ug/L) True	Found	%R	Solid (mg/kg) True	Found	C	Limits		%R
Aluminum									
Antimony									
Arsenic	455.0	481.8	105.9						
Barium	9100.0	9488.3	104.3						
Beryllium									
Cadmium	227.0	237.8	104.8						
Calcium									
Chromium	910.0	920.5	101.2						
Cobalt									
Copper									
Iron									
Lead	455.0	473.3	104.0						
Magnesium									
Manganese									
Mercury	4.6	4.6	100.0						
Nickel									
Potassium									
Selenium	455.0	460.2	101.1						
Silver	1130.0	1215.2	107.5						
Sodium									
Thallium									
Vanadium									
Zinc									
Cyanide									

Mitkem Corporation — *12/Jul/02 8:13* — WorkOrder: A1064

Client ID: FOSTER_ME
Project: CTO-3, Topsham Annex
Location: CTO3
Comments: 2 day TAT TCLP

Case:
SDG:
PO: 042620

Report Level: LEVEL 2
EDD:
HC Due: 07/15/02
Fax Due:

Sample ID	Client Sample ID	Collection Date	Date Received	Matrix	Test Code	Test Code Comments	Hold	MS	SEL	Storage
A1064-01A	TFS-WC1	07/11/02 8:00	07/11/02	Soil	PMoist		☐	☐	☐	A7
					TCLP_HG		☐	☐	☐	A7
					TCLP_ICP		☐	☐	☐	A7

0000

Client Rep: Benjamin F Dodge

MITKEM CORPORATION
175 Metro Center Boulevard
Warwick, Rhode Island 02886-1755
(401) 732-3400 • Fax (401) 732-3499
email: mitkem@mitkem.com

(207)

CHAIN-OF-CUSTODY RECORD

REPORT TO		INVOICE TO		
COMPANY FOSTER WHEELER	PHONE 451-9757	COMPANY FW	PHONE	LAB PROJECT #: A10604
NAME Josh Holden	FAX 451-9769	NAME ←	FAX	
ADDRESS PO Box 660		ADDRESS ←		TURNAROUND TIME: ASAP
CITY/ST/ZIP Kittery, ME 03904		CITY/ST/ZIP		

CLIENT PROJECT NAME:	CLIENT PROJECT #:	CLIENT P.O.#:
Topsham Annex	CTO 3	in process

REQUESTED ANALYSES

SAMPLE IDENTIFICATION	DATE/TIME SAMPLED	COMPOSITE	GRAB	WATER	SOIL	OTHER	LAB ID	# OF CONTAINERS	TCLP Metals												COMMENTS
TFS-WC1	7/11/02 0800	X			X		01	2	X												
	/																				
	/																				
	/																				
	/																				
	/																				
	/																				
	/																				
	/																				
	/																				
	/																				
	/																				

TSF#	RELINQUISHED BY	DATE/TIME	ACCEPTED BY	DATE/TIME
1	M. Machado	7/11/02/ 1820		/
2		/		/
3		/	Agus R Mg	7/11/02 /1820

ADDITIONAL REMARKS: * see Ed Lowler

COOLER TEMP: 4°

WHITE: LABORATORY COPY **YELLOW**: REPORT COPY **PINK**: CLIENT'S COPY

MITKEM CORPORATION
Sample Condition Form

Page 1 of 1

Received By:	Reviewed By: SH	Date: 7-11-02	MITKEM Project: A1004

Client Project: TOPSHAM ANNEX Client: FOSTER WHEELER

Condition:

1)Custody Seal(s) Present / Absent

Coolers / Bottles

Intact / Broken

Custody Seal Numbers

3)Chain -of- Custody Present / Absent

4)Airbill(s) Present / Absent

Airbill Number(s) DROPOFF

5)Cooler Temperature 4°C

Coolant Condition Ice

6)Sample Bottles Intact/Broken/Leaking

7)Date Received 7-11-02

8)Time Received 1820

Lab Sample ID	Preservation (pH) HNO3	H2SO4	HCl	NaO	VOA Matrix
A1004001					

VOA Matrix Key:

US = Unpreserved Soil
UA = Unpreserved Aqueous
M/N = MeOH& NaHSO4
N = NaHSO4 M = MeOH
A = Air
H = HCl
E=Encore

See Sample Condition Notification / Corrective Action Form yes / no

Comments / Remarks

Rad Ok yes / no

Last Page of Data Report

Appendix I

Wipe Sample and Decon Water Results

analytics environmental laboratory LLC

195 Commerce Way Suite E
Portsmouth, New Hampshire 03801
603-436-5111 Fax 603-430-2151
800-929-9906
analytics@analyticslab.com

Mr. Dan Sullivan
Foster Wheeler Environmental Corp.
P.O. Box 660
Kittery ME 03904

Report Number: 48188

Revision: Rev. 0

Re: BLDG. 335; PCB SOIL **CTO 33**

Enclosed are the results of the analyses on your sample(s). Samples were received on 03 September 2002 and analyzed for the tests listed below. Samples were received in acceptable condition, with the exceptions noted below or on the chain of custody. The results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report. Please see individual reports for specific methodologies and references.

Lab Number	Sample Date	Station Location	Analysis	Comments
48188-1	09/03/02	WS-E-1	EPA 8082 (PCB's only)	
48188-2	09/03/02	WS-I-1	EPA 8082 (PCB's only)	
48188-3	09/03/02	RW	Cyanide Reactivity	
	09/03/02	RW	EPA 1010 Flashpoint	
	09/03/02	RW	EPA 8081/8082 Pesticides and PCBs	
	09/03/02	RW	EPA 8100 - TPH	
	09/03/02	RW	EPA 8260 Volatile Organics	
	09/03/02	RW	EPA 8270 Acid/Base Neutrals	
	09/03/02	RW	Sulfide Reactivity	
	09/03/02	RW	SW-846 9040 pH in Water	

RECEIVED
SEP 23 2002

Sample Receipt Exceptions: None

Analytics Environmental Laboratory is certified by the states of New Hampshire, Maine, Massachusetts, Connecticut, Rhode Island, North Carolina and is validated by the U.S. Army Corps of Engineers (MRD) and U.S. Navy (NFESC). A list of actual certified parameters is available upon request.

If you have any further question on the analytical methods or these results, do not hesitate to call.

Authorized signature _____
Stephen L. Knollmeyer Lab. Director

Date 9/4/2002

This report shall not be reproduced, except in full, without the written consent of Analytics Environmental Laboratory, LLC.

analytics environmental laboratory LLC

195 Commerce Way
Portsmouth, New Hampshire 03801
603-436-5111 Fax 603-430-2151
800-929-9906

Mr. Dan Sullivan
Foster Wheeler Environmental Corp.
P.O. Box 660
Kittery ME 03904

September 4, 2002

SAMPLE DATA

CLIENT SAMPLE ID

Project Name: BLDG. 335; PCB SOIL

Project Number: CTO 33

Field Sample ID: WS-E-1

Lab Sample ID: 48188-1
Matrix: Wipe
Percent Solid: N/A
Dilution Factor: 1.0
Collection Date: 09/03/02
Lab Receipt Date: 09/03/02
Extraction Date: 09/03/02
Analysis Date: 09/04/02

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/wipe	Results µg/wipe
PCB-1016	0.5	U
PCB-1221	0.5	U
PCB-1232	0.5	U
PCB-1242	0.5	U
PCB-1248	0.5	U
PCB-1254	0.5	U
PCB-1260	0.5	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	115	%
Decachlorobiphenyl	98	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8081/82.

COMMENTS:

PCB Report

Authorized signature

analytics environmental laboratory LLC

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603-436-5111 Fax 603-430-2151
800-929-9906

Mr. Dan Sullivan
Foster Wheeler Environmental Corp.
P.O. Box 660
Kittery ME 03904

September 4, 2002

SAMPLE DATA

Lab Sample ID:	48188-2
Matrix:	Wipe
Percent Solid:	N/A
Dilution Factor:	1.0
Collection Date:	09/03/02
Lab Receipt Date:	09/03/02
Extraction Date:	09/03/02
Analysis Date:	09/04/02

CLIENT SAMPLE ID

Project Name:	BLDG. 335; PCB SOIL
Project Number:	CTO 33
Field Sample ID:	WS-I-1

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/wipe	Results µg/wipe
PCB-1016	0.5	U
PCB-1221	0.5	U
PCB-1232	0.5	U
PCB-1242	0.5	U
PCB-1248	0.5	U
PCB-1254	0.5	U
PCB-1260	0.5	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	120	%
Decachlorobiphenyl	100	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8081/82.

COMMENTS:

PCB Report

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Mr. Dan Sullivan
Foster Wheeler Environmental Corp.
P.O. Box 660
Kittery ME 03904

September 10, 2002

SAMPLE DATA

Lab Sample ID:	48188-3
Matrix:	Aqueous
Percent Solid:	N/A
Dilution Factor:	50
Collection Date:	09/03/02
Lab Receipt Date:	09/03/02
Analysis Date:	09/06/02

CLIENT SAMPLE ID

Project Name:	BLDG. 335; PCB SOIL
Project Number:	CTO 33
Field Sample ID:	RW

ANALYTICAL RESULTS VOLATILE ORGANICS

COMPOUND	Quantitation Limit µg/L	Result µg/L	COMPOUND	Quantitation Limit µg/L	Result µg/L
Benzene	100	U	1,3-Dichloropropane	100	U
Bromobenzene	100	U	cis-1,3-Dichloropropene	100	U
Bromochloromethane	100	U	trans-1,3-Dichloropropene	100	U
Bromodichloromethane	100	U	2,2-Dichloropropane	100	U
Bromoform	100	U	1,1-Dichloropropene	100	U
Bromomethane	100	U	Ethylbenzene	100	U
n-butylbenzene	100	U	Hexachlorobutadiene	100	U
sec-butylbenzene	100	U	Isopropylbenzene	100	U
tert-butylbenzene	100	U	p-isopropyltoluene	100	U
Carbon Tetrachloride	100	U	Methylene Chloride	250	U
Chlorobenzene	100	U	Methyl-tert-butyl ether	100	U
Chloroethane	100	U	Naphthalene	100	U
Chloroform	100	U	n-Propylbenzene	100	U
Chloromethane	100	U	Styrene	100	U
2-Chlorotoluene	100	U	1,1,1,2-Tetrachloroethane	100	U
4-Chlorotoluene	100	U	1,1,2,2-Tetrachloroethane	100	U
Dibromochloromethane	100	U	Tetrachloroethene	100	U
1,2-Dibromo-3-chloropropane	100	U	Toluene	100	U
1,2-Dibromoethane	100	U	1,2,3-Trichlorobenzene	100	U
Dibromomethane	100	U	1,2,4-Trichlorobenzene	100	U
1,2-Dichlorobenzene	100	U	1,1,1-Trichloroethane	100	U
1,3-Dichlorobenzene	100	U	1,1,2-Trichloroethane	100	U
1,4-Dichlorobenzene	100	U	Trichloroethene	100	U
Dichlorodifluoromethane	100	U	Trichlorofluoromethane	100	U
1,1-Dichloroethane	100	U	1,2,3-Trichloropropane	100	U
1,2-Dichloroethane	100	U	1,2,4-Trimethylbenzene	100	U
1,1-Dichloroethene	100	U	1,3,5-Trimethylbenzene	100	U
cis-1,2-Dichloroethene	100	U	Vinyl Chloride	100	U
trans-1,2-Dichloroethene	100	U	o-Xylene	100	U
1,2-Dichloropropane	100	U	m,p-Xylene	100	U
Acetone	500	U	Diethyl ether	100	U
Carbon Disulfide	100	U	2-Hexanone	500	U
Tetrahydrofuran	250	U	Methyl isobutyl ketone	500	U
Methyl ethyl ketone	500	U	Di-isopropyl ether	100	U
t-Butyl alcohol	4000	U	Ethyl t-butyl ether	100	U
t-Amyl methyl ether	100	U			

Surrogate Standard Recovery

d4-1,2-Dichloroethane	105 %	d8-Toluene	99 %	Bromofluorobenzene	100 %

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis was conducted according to: Test Methods for Evaluating Solid Waste, SW-846 Method 8260B.

COMMENTS: Quantitation limits are increased due to sample foaming.

8260 full

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analytics environmental laboratory LLC

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Mr. Dan Sullivan
Foster Wheeler Environmental Corp.
P.O. Box 660
Kittery ME 03904

September 10, 2002

SAMPLE DATA

Lab Sample ID: 48188-3 RR
Matrix: Aqueous
Percent Solid: N/A
Dilution Factor: 1.0
Collection Date: 09/03/02
Lab Receipt Date: 09/03/02
Extraction Date: 09/04/02
Analysis Date: 09/10/02

CLIENT SAMPLE ID

Project Name: BLDG. 335; PCB SOIL
Project Number: CTO 33
Field Sample ID: RW

PAGE ONE

ANALYTICAL RESULTS SEMI-VOLATILE ORGANICS

ACID COMPOUND	Quantitation Limit µg/L	Result µg/L	ACID COMPOUND	Quantitation Limit µg/L	Result µg/L
2-Chlorophenol	5	U	Pentachlorophenol	10	U
4-Chloro-3-methylphenol	10	U	Phenol	5	U
2,4-Dichlorophenol	5	U	2,4,5-Trichlorophenol	5	U
2,4-Dimethylphenol	5	**51**	2,4,6-Trichlorophenol	5	U
2,4-dinitrophenol	5	U	Benzoic Acid	10	U
4,6-Dinitro-2-methylphenol	5	U	2-Methylphenol	5	U
2-Nitrophenol	5	U	3+4-Methylphenol	5	U
2,6-Dichlorophenol	5	U	Benzyl Alcohol	5	U
4-Nitrophenol	5	U	2,3,4,6-Tetrachlorophenol	5	U

Acid Surrogate Standard Recovery

2-Fluorophenol	0 * %	d5-Phenol	18 * %	2,4,6-Tribromophenol	0 * %

BASE NEUTRAL COMPOUND	Quantitation Limit µg/L	Result µg/L	BASE NEUTRAL COMPOUND	Quantitation Limit µg/L	Result µg/L
1,2-Dichlorobenzene	2	U	Hexachlorobenzene	2	U
1,3-Dichlorobenzene	2	U	Benzidine	20	U
1,4-Dichlorobenzene	2	U	3,3'-Dichlorobenzidine	20	U
2,4-Dinitrotoluene	2	U	Azobenzene	2	U
2,6-Dinitrotoluene	2	U	Bis(2-chloroethoxy)methane	2	U
Nitrobenzene	2	U	bis(2-chloroethyl) ether	2	U
Hexachlorobutadiene	2	U	bis(2-chloroisopropyl)ether	2	U
Dimethyl Phthalate	2	U	4-bromophenyl phenyl ether	2	U
Di-n-butyl phthalate	2	**1 J**	Butyl benzyl phthalate	2	U
di-n-octyl-phthalate	2	U	4-Chlorophenyl phenyl ether	2	U
Bis (2-ethylhexyl) phthalate	2	**3**	Diethyl Phthalate	2	**9**
1,2,4-Trichlorobenzene	2	U	Hexachlorocyclopentadiene	2	U

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis was conducted according to: Test Methods for Evaluating Solid Waste, SW-846 Method 8270C.

Authorized signature

8270/625 layout

analytics environmental laboratory LLC

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Mr. Dan Sullivan
Foster Wheeler Environmental Corp.
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Kittery ME 03904

September 10, 2002

SAMPLE DATA

Lab Sample ID:	48188-3 RR
Matrix:	Aqueous
Percent Solid:	N/A
Dilution Factor:	1.0
Collection Date:	09/03/02
Lab Receipt Date:	09/03/02
Extraction Date:	09/04/02
Analysis Date:	09/10/02

CLIENT SAMPLE ID

Project Name:	BLDG. 335; PCB SOIL
Project Number:	CTO 33
Field Sample ID:	RW

PAGE TWO

ANALYTICAL RESULTS SEMI-VOLATILE ORGANICS

BASE NEUTRAL COMPOUND	Quantitation Limit µg/L	Result µg/L	BASE NEUTRAL COMPOUND	Quantitation Limit µg/L	Result µg/L
Acenaphthene	2	U	N-nitrosodimethylamine	2	U
Acenaphthylene	2	U	N-nitroso-di-n-propylamine	2	U
Anthracene	2	U	n-nitrosodiphenylamine	2	U
Benzo[a]anthracene	2	U	Pyridine	2	U
Benzo[a] pyrene	2	U	2-Methylnaphthalene	2	U
Benzo[b] fluoranthene	2	U	2-Chloronaphthalene	2	U
Benzo[k] fluoranthene	2	U	Naphthalene	2	U
Benzo(g,h,i) perylene	2	U	Phenanthrene	2	U
Chrysene	2	U	Dibenzofuran	2	U
Dibenz [a,h] anthracene	2	U	Aniline	2	U
Fluoranthene	2	U	4-Chloroaniline	2	U
Fluorene	2	U	2-Nitroaniline	2	U
Indeno [1,2,3-cd] pyrene	2	U	3-Nitroaniline	2	U
Pyrene	2	U	4-Nitroaniline	2	U
Hexachloroethane	2	U	Carbazole	2	U
Isophorone	2	U			

Base Neutral Surrogate Standard Recovery

2-Fluorobiphenyl	48	%	d5-nitrobenzene	63	%	d14-p-terphenyl	15 *	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis was conducted according to: Test Methods for Evaluating Solid Waste, SW-846 Method 8270C.

COMMENTS: *Surrogate recoveries were affected by sample matrix. Sample was reanalyzed to confirm results.

8270/625 layout

Authorized signature

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September 10, 2002

SAMPLE DATA

CLIENT SAMPLE ID

Project Name: BLDG. 335; PCB SOIL

Project Number: CTO 33

Field Sample ID: RW

Lab Sample ID: 48188-3 RX
Matrix: Aqueous
Percent Solid: N/A
Dilution Factor: 10
Collection Date: 09/03/02
Lab Receipt Date: 09/03/02
Extraction Date: 09/06/02
Analysis Date: 09/10/02 **PCB Analyzed:** 09/10/02

PESTICIDE AND PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/L	Results µg/L	COMPOUND	Quantitation Limit µg/L	Results µg/L
Aldrin	5	U	Endrin Ketone	5	U
a-BHC	5	U	Heptachlor	5	U
b-BHC	5	U	Heptachlor Epoxide	5	U
d-BHC	5	U	Methoxychlor	20	U
g-BHC	5	U	Chlordane	5	U
4,4'-DDD	5	U	Toxaphene	20	U
4,4'-DDE	5	U	PCB-1016	5	U
4,4'-DDT	5	U	PCB-1221	5	U
Dieldrin	5	U	PCB-1232	5	U
Endosulfan I	5	U	PCB-1242	5	U
Endosulfan II	5	U	PCB-1248	5	U
Endosulfan Sulfate	5	U	PCB-1254	5	U
Endrin	2	U	PCB-1260	5	U
Endrin Aldehyde	5	U			

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	28*	%
Decachlorobiphenyl	0*	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8081/82.

COMMENTS: *Surrogate recoveries were affected by sample matrix. Sample was reanalyzed to confirm results.

Authorized signature

608/8081/8082

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Mr. Dan Sullivan
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Kittery ME 03904

September 10, 2002

SAMPLE DATA

Lab Sample ID:	48188-3
Matrix:	Aqueous
Percent Solid:	N/A
Dilution Factor:	1.0
Collection Date:	09/03/02
Lab Receipt Date:	09/03/02
Extraction Date:	09/05/02
Analysis Date:	09/05/02

CLIENT SAMPLE ID

Project Name:	BLDG. 335; PCB SOIL
Project Number:	CTO 33
Field Sample ID:	RW

ANALYTICAL RESULTS DIESEL RANGE ORGANICS

Result	Units	Quantitation Limit
3940	µg/L	50

Surrogate Standard Recovery

m-Terphenyl 74 %

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Aqueous samples prepared by Separatory Funnel Liquid/Liquid Extraction, "Test Methods for Evaluating Solid Waste," Method 3510C; other matrices prepared by Pressurized Fluid Extraction, "Test Methods for Evaluating Solid Waste," Method 3545.

All matrices analyzed according to "Test Methods for Evaluating Solid Waste, SW-846 Method 8100"

COMMENTS:

8100

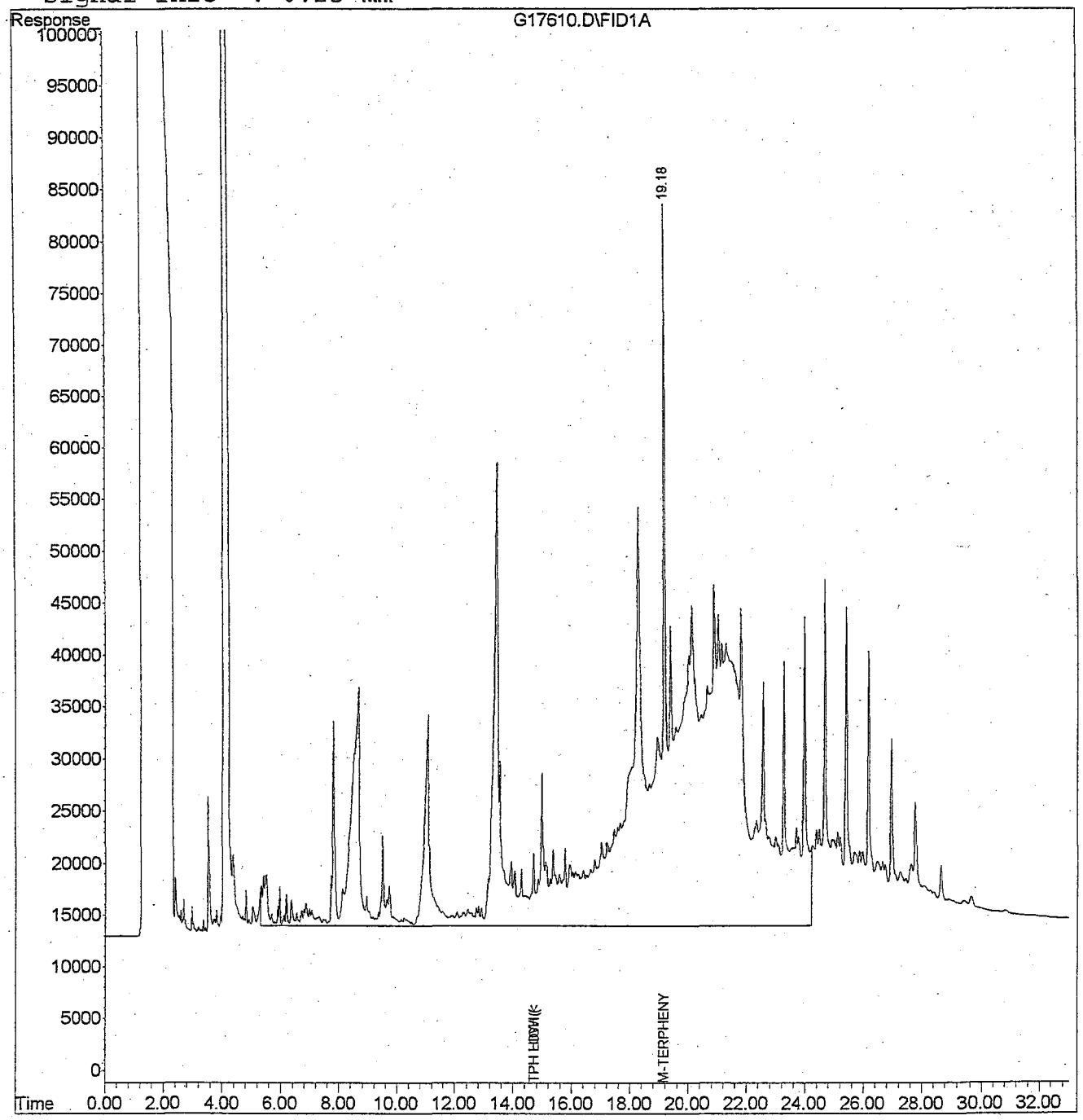
Authorized signature

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\2\DATA\090502-G\G17610.D Vial: 13
Acq On : 5 Sep 2002 10:04 pm Operator: MT
Sample : 48188-3 Inst : Instr. G
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Sep 6 8:41 2002 Quant Results File: T05232.RES

Quant Method : C:\HPCHEM\2\METHODS\T05232.M (Chemstation Integrator)
Title : DRO
Last Update : Tue May 28 08:41:55 2002
Response via : Multiple Level Calibration
DataAcq Meth : TPH.M

Volume Inj. : 1ul
Signal Phase : Rtx-5MS
Signal Info : 0.25 mm



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September 11, 2002

CLIENT SAMPLE ID

Project Name: BLDG. 335; PCB SOIL
Project Number: CTO 33
Client Sample ID: RW

SAMPLE DATA

Lab Sample ID: 48188-3
Matrix: Aqueous
Percent Solid N/A
Collection Date: 09/03/02 15:15
Lab Receipt Date: 09/03/02

Parameter	Result	Date Analyzed		Detection Limit	Units
pH	**7.2**	09/03/02	23:45	NA	pH units
Flashpoint	>165	09/06/02		NA	° Fahrenheit
Sulfide Reactivity	U	09/04/02		10	mg/L
Cyanide Reactivity	U	09/04/02		10	mg/L

U = Undetected NA = Not Applicable <=Less than >=Greater than

METHODOLOGY: pH: Sample analyzed according to "EPA SW 846 Method 9040 pH in water"
FlashPoint: Sample analysis was conducted according to "Test Methods for Evaluating Solid Waste, EPA SW-846, Method 1010."
Reacitivty: Sulfide reactivity analysis was conducted according to "Test Methods for Evaluating Solid Waste, SW-846, Sulfide by Modified Method 7.3.4.2."
Cyanide reactivity analysis was conducted according to "Test Methods for Evaluating Solid Waste, SW-846, Cyanide by Modified Method 7.3.3.2."

COMMENTS:

Authorized signature

SEVERN TRENT SERVICES

STL Chicago

SEVERN TRENT LABORATORIES ANALYTICAL REPORT

JOB NUMBER: 211783

Prepared For:

Analytics Environmental Laboratory, LLC
195 Commerce Way
Suite E
Portsmouth, NH 03801

Project: New Brunswick Naval Station CTO 3

Attention: Steve Knollmeyer

Date: 09/11/2002

Signature

Date 9/11/02

Name: Donna L. Ingersoll

Title: Project Manager

E-Mail: dingersoll@stl-inc.com

STL Chicago
2417 Bond Street
University Park, IL 60466

PHONE: (708) 534-5200
FAX..: (708) 534-5211

STL Chicago is part of Severn Trent Laboratories, Inc.

SAMPLE INFORMATION
Date: 09/11/2002

Job Number.: 211783
Customer...: Analytics Environmental Laboratory, LLC
Attn.....: Steve Knollmeyer

Project Number.....: 20002061
Customer Project ID....: NEW BRUNSWICK NAVAL
Project Description....: New Brunswick Naval Station CTO 3

Laboratory Sample ID	Customer Sample ID	Sample Matrix	Date Sampled	Time Sampled	Date Received	Time Received
211783-1	RW-7	Water	09/03/2002	15:50	09/05/2002	09:30

SEVERN TRENT SERVICES

LABORATORY TEST RESULTS

Job Number: 211783

Date:09/11/2002

CUSTOMER: Analytics Environmental Laboratory, LLC

PROJECT: NEW BRUNSWICK NAVAL

ATTN: Steve Knollmeyer

Customer Sample ID: RW-7
Date Sampled.....: 09/03/2002
Time Sampled.....: 15:50
Sample Matrix.....: Water

Laboratory Sample ID: 211783-1
Date Received.....: 09/05/2002
Time Received.....: 09:30

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
7470A	Mercury (CVAA)											
	Mercury	0.078			0.065	0.0002	1	ug/L	62179		09/09/02 1604	gok
6010B	Metals Analysis (ICAP Trace)											
	Arsenic	0.0091	B		0.0052	0.010	1	mg/L	62135		09/06/02 2205	tds
	Barium	0.16	B		0.0015	1.0	1	mg/L	62135		09/06/02 2205	tds
	Cadmium	0.0015	B		0.00044	0.0020	1	mg/L	62135		09/06/02 2205	tds
	Chromium	0.048			0.0015	0.010	1	mg/L	62135		09/06/02 2205	tds
	Lead	0.058			0.0029	0.0050	1	mg/L	62135		09/06/02 2205	tds
	Selenium	0.010	U		0.0050	0.010	1	mg/L	62135		09/06/02 2205	tds
	Silver	0.0050	U		0.0031	0.0050	1	mg/L	62135		09/06/02 2205	tds

013/032

* In Description = Dry Wgt.

L A B O R A T O R Y C H R O N I C L E

Job Number: 211783 Date: 09/11/2002

CUSTOMER: Analytics Environmental Laboratory, LLC PROJECT: NEW BRUNSWICK NAVAL ATTN: Steve Knollmeyer

Lab ID: 211783-1 Client ID: RW-7 Date Recvd: 09/05/2002 Sample Date: 09/03/2002

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S)	DATE/TIME ANALYZED		DILUTION
3010A	Acid Digestion (ICAP)	1	61993		09/06/2002	0900	
7470A	Mercury (CVAA)	1	62179	62174	09/09/2002	1604	
6010B	Metals Analysis (ICAP Trace)	1	62135	61993	09/06/2002	2205	
7470/7471	SW846 Digestion (Hg)	1	62174		09/09/2002	1125	

QUALITY CONTROL RESULTS

Job Number.: 211783 | Report Date.: 09/11/2002

CUSTOMER: Analytics Environmental Laboratory, LLC PROJECT: NEW BRUNSWICK NAVAL ATTN: Steve Knollmeyer

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time

Test Method.....: 6010B
Method Description.: Metals Analysis (ICAP Trace)
Equipment Code....: ICP3
Batch.....: 62135
Analyst...: tds

CCB	Continuing Calibration Blank		62135-016		09/06/2002	1530

Parameter/Test Description	Units	QC Result	QC Result	True Value	Orig. Value	QC Calc.	*	Limits	F
Arsenic	mg/L	0.00520 U							
Barium	mg/L	0.00150 U							
Cadmium	mg/L	0.00044 U							
Chromium	mg/L	0.00150 U							
Lead	mg/L	0.00290 U							
Selenium	mg/L	0.00500 U							
Silver	mg/L	0.00310 U							

CCB	Continuing Calibration Blank		62135-028		09/06/2002	1722

Parameter/Test Description	Units	QC Result	QC Result	True Value	Orig. Value	QC Calc.	*	Limits	F
Arsenic	mg/L	0.00520 U							
Barium	mg/L	0.00150 U							
Cadmium	mg/L	0.00044 U							
Chromium	mg/L	0.00150 U							
Lead	mg/L	0.00290 U							
Selenium	mg/L	0.00500 U							
Silver	mg/L	0.00310 U							

CCB	Continuing Calibration Blank		62135-040		09/06/2002	1859

Parameter/Test Description	Units	QC Result	QC Result	True Value	Orig. Value	QC Calc.	*	Limits	F
Arsenic	mg/L	0.00520 U							
Barium	mg/L	0.00150 U							
Cadmium	mg/L	0.00044 U							
Chromium	mg/L	0.00150 U							
Lead	mg/L	0.00290 U							
Selenium	mg/L	0.00500 U							
Silver	mg/L	0.00310 U							

CCB	Continuing Calibration Blank		62135-045		09/06/2002	1935

Parameter/Test Description	Units	QC Result	QC Result	True Value	Orig. Value	QC Calc.	*	Limits	F
Arsenic	mg/L	0.00520 U							
Barium	mg/L	0.00150 U							
Cadmium	mg/L	0.00044 U							
Chromium	mg/L	0.00150 U							
Lead	mg/L	0.00290 U							
Selenium	mg/L	0.00500 U							
Silver	mg/L	0.00310 U							

 *. %=% REC, R=RPD, A=ABS Diff., D=% Diff.

QUALITY CONTROL RESULTS

Job Number.: 211783 Report Date.: 09/11/2002

CUSTOMER: Analytics Environmental Laboratory, LLC PROJECT: NEW BRUNSWICK NAVAL ATTN: Steve Knollmeyer

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
CCB	Continuing Calibration Blank		62135-057		09/06/2002	2103

Parameter/Test Description	Units	QC Result	QC Result	True Value	Orig. Value	QC Calc.	*	Limits	F
Arsenic	mg/L	0.00520 U							
Barium	mg/L	0.00150 U							
Cadmium	mg/L	0.00044 U							
Chromium	mg/L	0.00150 U							
Lead	mg/L	0.00290 U							
Selenium	mg/L	0.00500 U							
Silver	mg/L	0.00310 U							

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
CCB	Continuing Calibration Blank		62135-069		09/06/2002	2224

Parameter/Test Description	Units	QC Result	QC Result	True Value	Orig. Value	QC Calc.	*	Limits	F
Arsenic	mg/L	0.00520 U							
Barium	mg/L	0.00150 U							
Cadmium	mg/L	0.00044 U							
Chromium	mg/L	0.00150 U							
Lead	mg/L	0.00290 U							
Selenium	mg/L	0.00500 U							
Silver	mg/L	0.00310 U							

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
CCB	Continuing Calibration Blank		62135-074		09/06/2002	2300

Parameter/Test Description	Units	QC Result	QC Result	True Value	Orig. Value	QC Calc.	*	Limits	F
Arsenic	mg/L	0.00520 U							
Barium	mg/L	0.00150 U							
Cadmium	mg/L	0.00044 U							
Chromium	mg/L	0.00150 U							
Lead	mg/L	0.00290 U							
Selenium	mg/L	0.00500 U							
Silver	mg/L	0.00310 U							

 * %=% REC, R=RPD, A=ABS Diff., D=% Diff.

QUALITY CONTROL RESULTS

Job Number.: 211783 Report Date.: 09/11/2002

CUSTOMER: Analytics Environmental Laboratory, LLC PROJECT: NEW BRUNSWICK NAVAL ATTN: Steve Knollmeyer

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time

Test Method.....: 6010B Equipment Code....: ICP3 Analyst...: tds
Method Description.: Metals Analysis (ICAP Trace) Batch.....: 62135

CCV	Continuing Calibration Verification	M02HCCV005	62135-015		09/06/2002 1519

Parameter/Test Description	Units	QC Result	QC Result	True Value	Orig. Value	QC Calc.	*	Limits	F
Arsenic	mg/L	0.51630		0.50000		103	%	90-110	
Barium	mg/L	0.51238		0.50000		102	%	90-110	
Cadmium	mg/L	0.50909		0.50000		102	%	90-110	
Chromium	mg/L	0.51780		0.50000		104	%	90-110	
Lead	mg/L	0.51504		0.50000		103	%	90-110	
Selenium	mg/L	0.51845		0.50000		104	%	90-110	
Silver	mg/L	0.51438		0.50000		103	%	90-110	

CCV	Continuing Calibration Verification	M02HCCV004	62135-027		09/06/2002 1712

Parameter/Test Description	Units	QC Result	QC Result	True Value	Orig. Value	QC Calc.	*	Limits	F
Arsenic	mg/L	0.62326		0.60000		104	%	90-110	
Barium	mg/L	0.62764		0.60000		105	%	90-110	
Cadmium	mg/L	0.61406		0.60000		102	%	90-110	
Chromium	mg/L	0.62980		0.60000		105	%	90-110	
Lead	mg/L	0.62423		0.60000		104	%	90-110	
Selenium	mg/L	0.62523		0.60000		104	%	90-110	
Silver	mg/L	0.62777		0.60000		105	%	90-110	

CCV	Continuing Calibration Verification	M02HCCV005	62135-039		09/06/2002 1849

Parameter/Test Description	Units	QC Result	QC Result	True Value	Orig. Value	QC Calc.	*	Limits	F
Arsenic	mg/L	0.52908		0.50000		106	%	90-110	
Barium	mg/L	0.53314		0.50000		107	%	90-110	
Cadmium	mg/L	0.51917		0.50000		104	%	90-110	
Chromium	mg/L	0.53309		0.50000		107	%	90-110	
Lead	mg/L	0.52623		0.50000		105	%	90-110	
Selenium	mg/L	0.52783		0.50000		106	%	90-110	
Silver	mg/L	0.52984		0.50000		106	%	90-110	

CCV	Continuing Calibration Verification	M02HCCV004	62135-044		09/06/2002 1924

Parameter/Test Description	Units	QC Result	QC Result	True Value	Orig. Value	QC Calc.	*	Limits	F
Arsenic	mg/L	0.64211		0.60000		107	%	90-110	
Barium	mg/L	0.64946		0.60000		108	%	90-110	
Cadmium	mg/L	0.62878		0.60000		105	%	90-110	
Chromium	mg/L	0.64610		0.60000		108	%	90-110	
Lead	mg/L	0.64164		0.60000		107	%	90-110	
Selenium	mg/L	0.64263		0.60000		107	%	90-110	
Silver	mg/L	0.64588		0.60000		108	%	90-110	

 * %=% REC, R=RPD, A=ABS Diff., D=% Diff.

QUALITY CONTROL RESULTS

Job Number.: 211783 Report Date.: 09/11/2002

CUSTOMER: Analytics Environmental Laboratory, LLC PROJECT: NEW BRUNSWICK NAVAL ATTN: Steve Knollmeyer

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
CCV	Continuing Calibration Verification	M02HCCV005	62135-056		09/06/2002	2052

Parameter/Test Description	Units	QC Result	QC Result	True Value	Orig. Value	QC Calc.	*	Limits	F
Arsenic	mg/L	0.51556		0.50000		103	%	90-110	
Barium	mg/L	0.53090		0.50000		106	%	90-110	
Cadmium	mg/L	0.50595		0.50000		101	%	90-110	
Chromium	mg/L	0.52269		0.50000		105	%	90-110	
Lead	mg/L	0.51388		0.50000		103	%	90-110	
Selenium	mg/L	0.51656		0.50000		103	%	90-110	
Silver	mg/L	0.52331		0.50000		105	%	90-110	

CCV	Continuing Calibration Verification	M02HCCV004	62135-068		09/06/2002	2213

Parameter/Test Description	Units	QC Result	QC Result	True Value	Orig. Value	QC Calc.	*	Limits	F
Arsenic	mg/L	0.59868		0.60000		100	%	90-110	
Barium	mg/L	0.59582		0.60000		99	%	90-110	
Cadmium	mg/L	0.58281		0.60000		97	%	90-110	
Chromium	mg/L	0.59397		0.60000		99	%	90-110	
Lead	mg/L	0.58986		0.60000		98	%	90-110	
Selenium	mg/L	0.60006		0.60000		100	%	90-110	
Silver	mg/L	0.60369		0.60000		101	%	90-110	

CCV	Continuing Calibration Verification	M02HCCV005	62135-073		09/06/2002	2249

Parameter/Test Description	Units	QC Result	QC Result	True Value	Orig. Value	QC Calc.	*	Limits	F
Arsenic	mg/L	0.51559		0.50000		103	%	90-110	
Barium	mg/L	0.52019		0.50000		104	%	90-110	
Cadmium	mg/L	0.50504		0.50000		101	%	90-110	
Chromium	mg/L	0.51544		0.50000		103	%	90-110	
Lead	mg/L	0.51256		0.50000		103	%	90-110	
Selenium	mg/L	0.51463		0.50000		103	%	90-110	
Silver	mg/L	0.51669		0.50000		103	%	90-110	

 * %=% REC, R=RPD, A=ABS Diff., D=% Diff.

QUALITY CONTROL RESULTS

Job Number.: 211783

Report Date.: 09/11/2002

CUSTOMER: Analytics Environmental Laboratory, LLC PROJECT: NEW BRUNSWICK NAVAL ATTN: Steve Knollmeyer

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time

Test Method.....: 6010B
Method Description.: Metals Analysis (ICAP Trace)
Equipment Code....: ICP3
Batch.....: 62135
Analyst...: tds

CRI	Contract Required Detection Limits	M02HCRI002	62135-012		09/06/2002 1500

Parameter/Test Description	Units	QC Result	QC Result	True Value	Orig. Value	QC Calc.	*	Limits	F
Arsenic	mg/L	0.01949		0.02000		97	%	50-150	
Barium	mg/L	0.02076		0.02000		104	%	50-150	
Cadmium	mg/L	0.00413		0.00400		103	%	50-150	
Chromium	mg/L	0.02128		0.02000		106	%	50-150	
Lead	mg/L	0.01202		0.01000		120	%	50-150	
Selenium	mg/L	0.01006		0.01000		101	%	50-150	
Silver	mg/L	0.00926		0.01000		93	%	50-150	

CRI	Contract Required Detection Limits	M02HCRI002	62135-041		09/06/2002 1905

Parameter/Test Description	Units	QC Result	QC Result	True Value	Orig. Value	QC Calc.	*	Limits	F
Arsenic	mg/L	0.02107		0.02000		105	%	50-150	
Barium	mg/L	0.02169		0.02000		108	%	50-150	
Cadmium	mg/L	0.00409		0.00400		102	%	50-150	
Chromium	mg/L	0.02222		0.02000		111	%	50-150	
Lead	mg/L	0.01111		0.01000		111	%	50-150	
Selenium	mg/L	0.00879 B		0.01000		88	%	50-150	
Silver	mg/L	0.00981		0.01000		98	%	50-150	

CRI	Contract Required Detection Limits	M02HCRI002	62135-070		09/06/2002 2230

Parameter/Test Description	Units	QC Result	QC Result	True Value	Orig. Value	QC Calc.	*	Limits	F
Arsenic	mg/L	0.01966		0.02000		98	%	50-150	
Barium	mg/L	0.02060		0.02000		103	%	50-150	
Cadmium	mg/L	0.00417		0.00400		104	%	50-150	
Chromium	mg/L	0.02159		0.02000		108	%	50-150	
Lead	mg/L	0.00992		0.01000		99	%	50-150	
Selenium	mg/L	0.00849 B		0.01000		85	%	50-150	
Silver	mg/L	0.00985		0.01000		98	%	50-150	

 * %=% REC, R=RPD, A=ABS Diff., D=% Diff.

QUALITY CONTROL RESULTS

Job Number.: 211783

Report Date.: 09/11/2002

CUSTOMER: Analytics Environmental Laboratory, LLC PROJECT: NEW BRUNSWICK NAVAL ATTN: Steve Knollmeyer

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
ICB	Initial Calibration Blank		62135-011		09/06/2002	1454

Test Method.....: 6010B
Method Description.: Metals Analysis (ICAP Trace)

Equipment Code....: ICP3
Batch.....: 62135

Analyst...: tds

Parameter/Test Description	Units	QC Result	QC Result	True Value	Orig. Value	QC Calc.	*	Limits	F
Arsenic	mg/L	0.00520 U							
Barium	mg/L	0.00150 U							
Cadmium	mg/L	0.00044 U							
Chromium	mg/L	0.00150 U							
Lead	mg/L	0.00405 B							
Selenium	mg/L	0.00500 U							
Silver	mg/L	0.00310 U							

 * %=% REC, R=RPD, A=ABS Diff., D=% Diff.

QUALITY CONTROL RESULTS

Job Number.: 211783

Report Date.: 09/11/2002

CUSTOMER: Analytics Environmental Laboratory, LLC PROJECT: NEW BRUNSWICK NAVAL ATTN: Steve Knollmeyer

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time

Test Method.....: 6010B
Method Description.: Metals Analysis (ICAP Trace)
Equipment Code....: ICP3
Batch.....: 62135
Analyst...: tds

ICV	Initial Calibration Verification	M02HICV004	62135-010		09/06/2002	1448

Parameter/Test Description	Units	QC Result	QC Result	True Value	Orig. Value	QC Calc.	*	Limits	F
Arsenic	mg/L	0.40949		0.40000		102	%	90-110	
Barium	mg/L	0.40407		0.40000		101	%	90-110	
Cadmium	mg/L	0.40439		0.40000		101	%	90-110	
Chromium	mg/L	0.41100		0.40000		103	%	90-110	
Lead	mg/L	0.42049		0.40000		105	%	90-110	
Selenium	mg/L	0.41025		0.40000		103	%	90-110	
Silver	mg/L	0.40549		0.40000		101	%	90-110	

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

QUALITY CONTROL RESULTS

Job Number.: 211783 | Report Date.: 09/11/2002

CUSTOMER: Analytics Environmental Laboratory, LLC PROJECT: NEW BRUNSWICK NAVAL ATTN: Steve Knollmeyer

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time

Test Method.....: 6010B
Method Description.: Metals Analysis (ICAP Trace)
Equipment Code....: ICP3
Batch.....: 62135
Analyst...: tds

ISB	Interference Check Sample B	M02HISB002	62135-014		09/06/2002 1513

Parameter/Test Description	Units	QC Result	QC Result	True Value	Orig. Value	QC Calc.	*	Limits	F
Arsenic	mg/L	0.10608		0.10000		106	%	80-120	
Barium	mg/L	0.53213		0.50000		106	%	80-120	
Cadmium	mg/L	0.96200		1.00000		96	%	80-120	
Chromium	mg/L	0.50440		0.50000		101	%	80-120	
Lead	mg/L	0.05182		0.05000		104	%	80-120	
Selenium	mg/L	0.04789		0.05000		96	%	80-120	
Silver	mg/L	0.21865		0.20000		109	%	80-120	

ISB	Interference Check Sample B	M02HISB002	62135-043		09/06/2002 1918

Parameter/Test Description	Units	QC Result	QC Result	True Value	Orig. Value	QC Calc.	*	Limits	F
Arsenic	mg/L	0.10628		0.10000		106	%	80-120	
Barium	mg/L	0.55361		0.50000		111	%	80-120	
Cadmium	mg/L	0.98062		1.00000		98	%	80-120	
Chromium	mg/L	0.51885		0.50000		104	%	80-120	
Lead	mg/L	0.05400		0.05000		108	%	80-120	
Selenium	mg/L	0.04634		0.05000		93	%	80-120	
Silver	mg/L	0.22615		0.20000		113	%	80-120	

ISB	Interference Check Sample B	M02HISB002	62135-072		09/06/2002 2243

Parameter/Test Description	Units	QC Result	QC Result	True Value	Orig. Value	QC Calc.	*	Limits	F
Arsenic	mg/L	0.10412		0.10000		104	%	80-120	
Barium	mg/L	0.52692		0.50000		105	%	80-120	
Cadmium	mg/L	0.94334		1.00000		94	%	80-120	
Chromium	mg/L	0.49695		0.50000		99	%	80-120	
Lead	mg/L	0.05442		0.05000		109	%	80-120	
Selenium	mg/L	0.04695		0.05000		94	%	80-120	
Silver	mg/L	0.21840		0.20000		109	%	80-120	

 * %=% REC, R=RPD, A=ABS Diff., D=% Diff.

QUALITY CONTROL RESULTS

Job Number.: 211783 Report Date.: 09/11/2002

CUSTOMER: Analytics Environmental Laboratory, LLC PROJECT: NEW BRUNSWICK NAVAL ATTN: Steve Knollmeyer

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time

Test Method.....: 6010B Equipment Code....: ICP3 Analyst...: tds
Method Description.: Metals Analysis (ICAP Trace) Batch.....: 62135

LCS	Laboratory Control Sample	M02GSPK001	61956 -002		09/06/2002 1542

Parameter/Test Description	Units	QC Result	QC Result	True Value	Orig. Value	QC Calc.	*	Limits	F
Arsenic	mg/L	0.10151		0.10000	0.00520 U	102	%	80-120	
Barium	mg/L	2.01138		2.00000	0.00150 U	101	%	80-120	
Cadmium	mg/L	0.05035		0.05000	0.00044 U	101	%	80-120	
Chromium	mg/L	0.20864		0.20000	0.00150 U	104	%	80-120	
Lead	mg/L	0.10697		0.10000	0.00290 U	107	%	80-120	
Selenium	mg/L	0.10161		0.10000	0.00500 U	102	%	80-120	
Silver	mg/L	0.05002		0.05000	0.00310 U	100	%	80-120	

LCS	Laboratory Control Sample	M02GSPK001	61953 -002		09/06/2002 1825

Parameter/Test Description	Units	QC Result	QC Result	True Value	Orig. Value	QC Calc.	*	Limits	F
Arsenic, Solid	mg/Kg	8.67		10.00	0.51 U	87	%	80-120	
Barium, Solid	mg/Kg	185.05		200.00	0.16 U	93	%	80-120	
Cadmium, Solid	mg/Kg	4.51		5.00	0.08 U	90	%	80-120	
Chromium, Solid	mg/Kg	19.03		20.00	0.22 U	95	%	80-120	
Lead, Solid	mg/Kg	9.68		10.00	0.43 U	97	%	80-120	
Selenium, Solid	mg/Kg	8.64		10.00	0.40 U	86	%	80-120	
Silver, Solid	mg/Kg	4.47		5.00	0.31 U	89	%	80-120	

LCS	Laboratory Control Sample	M02GSPK001	61993 -002		09/06/2002 2040

Parameter/Test Description	Units	QC Result	QC Result	True Value	Orig. Value	QC Calc.	*	Limits	F
Arsenic	mg/L	0.10237		0.10000	0.00520 U	102	%	80-120	
Barium	mg/L	2.06128		2.00000	0.00150 U	103	%	80-120	
Cadmium	mg/L	0.05016		0.05000	0.00044 U	100	%	80-120	
Chromium	mg/L	0.21175		0.20000	0.00150 U	106	%	80-120	
Lead	mg/L	0.10890		0.10000	0.00290 U	109	%	80-120	
Selenium	mg/L	0.10122		0.10000	0.00500 U	101	%	80-120	
Silver	mg/L	0.05061		0.05000	0.00310 U	101	%	80-120	

 * %=% REC, R=RPD, A=ABS Diff., D=% Diff.

QUALITY CONTROL RESULTS

Job Number.: 211783

Report Date.: 09/11/2002

CUSTOMER: Analytics Environmental Laboratory, LLC PROJECT: NEW BRUNSWICK NAVAL ATTN:

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time

Test Method.....: 6010B
Method Description.: Metals Analysis (ICAP Trace)
Equipment Code....: ICP3
Batch.....: 62135
Analyst...: tds

MB	Method Blank	61956	61956 -001		09/06/2002	1536

Parameter/Test Description	Units	QC Result	QC Result	True Value	Orig. Value	QC Calc.	*	Limits	F
Arsenic	mg/L	0.00520 U							
Barium	mg/L	0.00150 U							
Cadmium	mg/L	0.00044 U							
Chromium	mg/L	0.00150 U							
Lead	mg/L	0.00290 U							
Selenium	mg/L	0.00500 U							
Silver	mg/L	0.00310 U							

MB	Method Blank	61953	61953 -001		09/06/2002	1819

Parameter/Test Description	Units	QC Result	QC Result	True Value	Orig. Value	QC Calc.	*	Limits	F
Arsenic, Solid	mg/Kg	0.51 U							
Barium, Solid	mg/Kg	0.16 U							
Cadmium, Solid	mg/Kg	0.08 U							
Chromium, Solid	mg/Kg	0.22 U							
Lead, Solid	mg/Kg	0.43 U							
Selenium, Solid	mg/Kg	0.40 U							
Silver, Solid	mg/Kg	0.31 U							

MB	Method Blank	61993	61993 -001		09/06/2002	2033

Parameter/Test Description	Units	QC Result	QC Result	True Value	Orig. Value	QC Calc.	*	Limits	F
Arsenic	mg/L	0.00520 U							
Barium	mg/L	0.00150 U							
Cadmium	mg/L	0.00044 U							
Chromium	mg/L	0.00150 U							
Lead	mg/L	0.00290 U							
Selenium	mg/L	0.00500 U							
Silver	mg/L	0.00310 U							

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

QUALITY CONTROL RESULTS

Job Number.: 211783

Report Date.: 09/11/2002

CUSTOMER: Analytics Environmental Laboratory, LLC PROJECT: NEW BRUNSWICK NAVAL ATTN:

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time

Test Method.....: 6010B
Method Description.: Metals Analysis (ICAP Trace)

Equipment Code....: ICP3
Batch.....: 62135

Analyst...: tds

S1	Standard 1	M02EINT001	62135-008		09/06/2002	1436

Parameter/Test Description	Units	QC Result	QC Result	True Value	Orig. Value	QC Calc.	*	Limits	F
Arsenic	mg/L	0.99637		1.00000		100	%	95-105	
Barium	mg/L	1.00052		1.00000		100	%	95-105	
Cadmium	mg/L	0.99513		1.00000		100	%	95-105	
Chromium	mg/L	0.99805		1.00000		100	%	95-105	
Lead	mg/L	1.00286		1.00000		100	%	95-105	
Selenium	mg/L	1.00298		1.00000		100	%	95-105	
Silver	mg/L	1.00093		1.00000		100	%	95-105	

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

QUALITY CONTROL RESULTS

Job Number.: 211783

Report Date.: 09/11/2002

CUSTOMER: Analytics Environmental Laboratory, LLC PROJECT: NEW BRUNSWICK NAVAL ATTN:

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time

Test Method.....: 6010B
Method Description.: Metals Analysis (ICAP Trace)

Equipment Code....: ICP3
Batch.....: 62135

Analyst...: tds

S2	Standard 2	M02EINT002	62135-009		09/06/2002	1442

Parameter/Test Description	Units	QC Result	QC Result	True Value	Orig. Value	QC Calc.	*	Limits	F
Lead	mg/L	19.66721		20.00000		98	%	95-105	

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

QUALITY CONTROL RESULTS

Job Number.: 211783 Report Date.: 09/11/2002

CUSTOMER: Analytics Environmental Laboratory, LLC PROJECT: NEW BRUNSWICK NAVAL ATTN: Steve Knollmeyer

Test Method.....: 7470A Batch.....: 62179 Analyst...: gok
Method Description.: Mercury (CVAA) Equipment Code....: HG3 Test Code.: HG
Parameter.....: Mercury

QC	Lab ID	Reagent	Units	QC Result	QC Result	True Value	Orig. Value	QC Calc.	F	*	Limits	Date	Time
S1	62174 -001	M01JSTK012	ug/L	615.00		1000.00						09/09/2002	1455
S2	62174 -002		ug/L	13831.00								09/09/2002	1457
S3	62174 -003		ug/L	33382.00								09/09/2002	1500
S4	62174 -004		ug/L	61986.00								09/09/2002	1502
S5	62174 -005		ug/L	188296.00								09/09/2002	1504
S6	62174 -006		ug/L	316062.00								09/09/2002	1507
ICV	62179-007	M02ESTK010	ug/L	1.93		2.00		96		%	90-110	09/09/2002	1510
ICB	62179-008		ug/L	0.06	U							09/09/2002	1512
CRA	62179-009	M01JSTK012	ug/L	0.21		0.20		107		%	50-150	09/09/2002	1514
MB	62174 -007		ug/L	0.06	U							09/09/2002	1517
LCS	62174 -008	M02ESTK010	ug/L	1.95		2.00	0.06 U	98		%	80-120	09/09/2002	1519
CCV	62179-017	M02ESTK010	ug/L	0.97		1.00		97		%	90-110	09/09/2002	1533
CCB	62179-018		ug/L	0.06	U							09/09/2002	1535
CCV	62179-029	M02ESTK010	ug/L	0.95		1.00		95		%	90-110	09/09/2002	1600
CCB	62179-030		ug/L	0.06	U							09/09/2002	1602
CCV	62179-032	M02ESTK010	ug/L	0.96		1.00		96		%	90-110	09/09/2002	1607
CCB	62179-033		ug/L	0.06	U							09/09/2002	1609

 * %=% REC, R=RPD, A=ABS Diff., D=% Diff.

REPORT COMMENTS

1) All pages of this report are integral parts of the analytical data. Therefore, this report should be reproduced only in its entirety.
2) Soil, sediment and sludge sample results are reported on a "dry weight" basis except when analyzed for landfill disposal or incineration parameters. All other solid matrix samples are reported on an "as received" basis unless noted differently.
3) Reporting limits are adjusted for sample size used, dilutions and moisture content if applicable.
4) The test results for the noted analytical method(s) meet the requirements of NELAC. Lab Cert. ID# 100201
5) Arizona Environmental Laboratory License number AZ0603.
6) According to 40CFR Part 136.3, pH, Chlorine Residual and Dissolved Oxygen analyses are to be performed immediately after aqueous sample collection. When these parameters are not indicated as field (e.g. pH Field) they were not analyzed immediately, but as soon as possible on laboratory receipt.

Glossary of flags, qualifiers and abbreviations (any number of which may appear in the report)

Inorganic Qualifiers (Q-Column)

U Analyte was not detected at or above the stated limit.
< Not detected at or above the reporting limit.
J Result is less than the RL, but greater than or equal to the method detection limit.
B Result is less than the CRDL/RL, but greater than or equal to the IDL/MDL.
S Result was determined by the Method of Standard Additions.
F AFCEE: Result is less than the RL, but greater than or equal to the method detection limit.

Inorganic Flags (Flag Column)

^ ICV,CCV,ICB,CCB,ISA,ISB,CRI,CRA,MRL: Instrument related QC exceed the upper or lower control limits.
* LCS, LCD, MD: Batch QC exceeds the upper or lower control limits.
+ MSA correlation coefficient is less than 0.995.
4 MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.
E SD: Serial dilution exceeds the control limits.
H MB, EB1, EB2, EB3: Batch QC is greater than reporting limit or had a negative instrument reading lower than the absolute value of the reporting limit.
N MS, MSD: Spike recovery exceeds the upper or lower control limits.
W AS(GFAA) Post-digestion spike was outside 85-115% control limits.

Organic Qualifiers (Q - Column)

U Analyte was not detected at or above the stated limit.
ND Compound not detected.
J Result is an estimated value below the reporting limit or a tentatively identified compound (TIC).
Q Result was qualitatively confirmed, but not quantified.
C Pesticide identification was confirmed by GC/MS.
Y The chromatographic response resembles a typical fuel pattern.
Z The chromatographic response does not resemble a typical fuel pattern.
E Result exceeded calibration range, secondary dilution required.
F AFCEE:Result is an estimated value below the reporting limit or a tentatively identified compound (TIC)

Organic Flags (Flags Column)

B MB: Batch QC is greater than reporting limit.
* LCS, LCD, ELC, ELD, CV, MS, MSD, Surrogate: Batch QC exceeds the upper or lower control limits.
^ EB1, EB2, EB3, MLE: Batch QC is greater than reporting Limit
A Concentration exceeds the instrument calibration range
a Concentration is below the method Reporting Limit (RL)
B Compound was found in the blank and sample.
D Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution will be flagged with a D.
H Alternate peak selection upon analytical review
I Indicates the presence of an interfence, recovery is not calculated.
M Manually integrated compound.

P The lower of the two values is reported when the % difference between the results of two GC columns is greater than 25%.

Abbreviations

AS	Post Digestion Spike (GFAA Samples - See Note 1 below)
Batch	Designation given to identify a specific extraction, digestion, preparation set, or analysis set
CAP	Capillary Column CCB Continuing Calibration Blank
CCV	Continuing Calibration Verification
CF	Confirmation analysis of original
C1	Confirmation analysis of A1 or D1
C2	Confirmation analysis of A2 or D2
C3	Confirmation analysis of A3 or D3
CRA	Low Level Standard Check - GFAA; Mercury
CRI	Low Level Standard Check - ICP
CV	Calilbration Verification Standard
Dil Fac	Dilution Factor - Secondary dilution analysis
D1	Dilution 1
D2	Dilution 2
D3	Dilution 3
DLFac	Detection Limit Factor
DSH	Distilled Standard - High Level
DSL	Distilled Standard - Low Level
DSM	Distilled Standard - Medium Level
EB1	Extraction Blank 1
EB2	Extraction Blank 2
EB3	DI Blank
ELC	Method Extracted LCS
ELD	Method Extracted LCD
ICAL	Initial calibration
ICB	Initial Calibration Blank
ICV	Initial Calibration Verification
IDL	Instrument Detection Limit
ISA	Interference Check Sample A - ICAP
ISB	Interference Check Sample B - ICAP
Job No.	The first six digits of the sample ID which refers to a specific client, project and sample group Lab ID An 8 number unique laboratory identification
LCD	Laboratory Control Standard Duplicate
LCS	Laboratory Control Standard with reagent grade water or a matrix free from the analyte of interest
MB	Method Blank or (PB) Preparation Blank
MD	Method Duplicate
MDL	Method Detection Limit
MLE	Medium Level Extraction Blank
MRL	Method Reporting Limit Standard
MSA	Method of Standard Additions
MS	Matrix Spike
MSD	Matrix Spike Duplicate
ND	Not Detected
PREPF	Preparation factor used by the Laboratory's Information Management System (LIMS)
PDS	Post Digestion Spike (ICAP)
RA	Re-analysis of original
A1	Re-analysis of D1
A2	Re-analysis of D2
A3	Re-analysis of D3
RD	Re-extraction of dilution
RE	Re-extraction of original
RC	Re-extraction Confirmation
RL	Reporting Limit
RPD	Relative Percent Difference of duplicate (unrounded) analyses
RRF	Relative Response Factor

RT	Retention Time
RTW	Retention Time Window Sample ID A 9 digit number unique for each sample, the first six digits are referred as the job number
SCB	Seeded Control Blank
SD	Serial Dilution (Calculated when sample concentration exceeds 50 times the MDL)
UCB	Unseeded Control Blank
SSV	Second Source Verification Standard
SLCS	Solid Laboratory Control Standard(LCS)
PHC	pH Calibration Check LCSP pH Laboratory Control Sample
LCDP	pH Laboratory Control Sample Duplicate
MDPH	pH Sample Duplicate
MDFP	Flashpoint Sample Duplicate
LCFP	Flashpoint LCS
G1	Gelex Check Standard Range 0-1
G2	Gelex Check Standard Range 1-10
G3	Gelex Check Standard Range 10-100
G4	Gelex Check Standard Range 100-1000

Note 1: The Post Spike Designation on Batch QC for GFAA is designated with an "S" added to the current abbreviation used. EX. LCS S=LCS Post Spike (GFAA); MSS=MS Post Spike (GFAA)

Note 2: The MD calculates an absolute difference (A) when the sample concentration is less than 5 times the reporting limit. The control limit is represented as +/- the RL.

STL Chicago

211783

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For Analytics Use Only Rev 2/00

Samples were:

1) Shipped or hand-delivered
2) Temp blank °C _____
3) Received in good condition Y or N
4) pH checked by: _____
5) Labels checked by: _____

Project#: CTO 33 Proj. Name: Bldg 335; PCBSOIL

Company: ANALYTICS

Contact: Stephen Knollmeyer

Address: 195 COMMERCE WAY
PORTSMOUTH, NH 03801

Phone: 603-436-5111 PO# Quote #

Sampler (Signature): Rich Goldbeck

Matrix Key:
WW=Wastewater
SW=Surfacewater
GW=Groundwate
DW=Drinkingwater
S=Soil/Sludge
O=Oil
F=Extract
X=Other

Container Key
P=plastic G=glass

Preservation

	Station Identification	Sample Date	Sample Time	Analysis	Unpres	4°C	HNO3	H2SO4	HCL	Other	Matrix	Container number/type		pH	Analytics Sample #
1	RW	9-3-02	15:50	RCRA 8 metals (Total)		X	X				W	1	P		48188-1

Received By: Time: 0930 Date: 9/5/02

Received By: Time: Date:

Received By: Time: Date:

Relinquished By Sampler:

Relinquished By:

Relinquished By:

FAX RESULTS? (YES) NO

Fax #: 603-430-2151

Turnaround Request

Standard ☐ Due Date _____

Priority ☒ Due Date 9/11/02

Comments / Instructions:

Please reference Station ID number and AEL Lab number on report(s).

STANDARD Report

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Analytics\AEL Documents\AEL COC

031/032

analytics environmental laboratory LLC

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Samples were:
1) Shipped or hand-delivered
2) Temp blank °C 4.4
3) Received in good condition Y or N
4) pH checked by: amb 9.3.02
5) Labels checked by: amb 9.3.02

Project#: CTO 33 Proj. Name: Bldg 335; PCB Soil
Company: Foster Wheeler Environmental Co
Contact: Dan Sullivan
Address: Kittery Maine
Phone: 207-451-9751 PO# Quote #
Sampler (Signature): Rich Goldbeck

Matrix Key:
WW=Wastewater
SW=Surfacewater
GW=Groundwater
DW=Drinkingwater
S=Soil/Sludge
O=Oil
E=Extract
X=Other

Container Key
P=plastic G=glass

Station Identification	Sample Date	Sample Time	Analysis	Preservation: Unpres	4o C	HNO3	H2SO4	HCL	Methanol	Other	Matrix	Container number/type		pH	Analytics Sample #
WS-E-1	9-3-02	1510	PCB							X	WW	1	G		48188-1
WS-I-1		1515	PCB							X	WW	1	G		-2
RW-1		1515	Pest/PCB 8081/82		✓						W	1	G		-3
RW-2		1520	TPH 8100					✓			W	1	G	<2	
RW-3		1530	SVOC 8270		✓						W	1	G		
RW-4		1535	Cn & S Reactivity		✓						W	1	G		
RW-5		1540	Flash Point		✓						W	1	G		
RW-6		1545	" "		✓						W	1	G		
RW-7		1550	pH		✓						W	1	P		
RW-8		1555	8260		✓			✓			W	1	G		
RW-9		1556	↓		✓			✓			W	1	G		
RW-10		1557	↓		✓			✓			W	1	G		

FAX RESULTS? YES NO
Fax #

Turnaround Request
Standard ☐ Due Date
Priority ☑ Due Date 24 HR

Comments / Instructions:
WS = Wipe Sample
RW = Rinsate Water
9/3/02 mrg - spoke to Rich @ FWEC RW-1 → 0 in all one sample # in Container - Use RW as ID

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Received By: Time: 1600 Date: 9-3-02
Received By: Time: Date:
Received By: Time: Date:
Relinquished By Sampler: Rich Goldbeck
Relinquished By:
Relinquished By:

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