PCB REMEDIATION REPORT
BUFFALO COMPRESSOR STATION
WILLIAMS GAS PIPELINES CENTRAL, INC.
HARPER COUNTY, OKLAHOMA
November 6, 2002

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HARPER COUNTY, OKLAHOMA

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EXECUTIVE SUMMARY

Williams Gas Pipelines Central, Inc. (WGPC) contracted with Diamond Services Company (Diamond) and their subcontractor Atkins Benham, Inc. Environmental Division (ABI) to perform polychlorinated biphenyl (PCB) remediation at the former Buffalo Compressor Station (Site) located near the city of Buffalo in Harper County, Oklahoma.

On July 18, 2002, WGPC entered into an Administrative Order on Consent, Docket No.: CERCLA-6-07-02 (Consent Order) with the United States Environmental Protection Agency, Region VI (USEPA Region VI). This Consent Order was based upon information from activities conducted at the Site by Terracon in 2002 and 2000, SECOR International, Inc. (SECOR) in 1995, Burlington Environmental, Inc. (Burlington) in 1995, and ERM-Rocky Mountain, Inc. (ERM) in 1994.

The Consent Order required WGPC to address three (3) areas of the Site, identified as the Impoundment Area, Drain Line and Air Line Piping, and the Air Receiver Area, and to implement the following tasks:

- Impoundment Area - Excavate all PCB contaminated soils from the Impoundment Area that are above the cleanup standard of 1 mg/kg or to less than 10.0 mg/kg with construction of a cap in accordance with 40 CFR 761.61 (a)(7) and (a)(8).

- Drain Line and Air Line Piping - Remove the drain line and the underground air lines that exhibit surface PCB concentrations greater than 10 $\mu g/100cm^2$.

- Air Receiver Area - Excavate all PCB contaminated soils from the Air Receiver Area that are above the cleanup standard of 1 mg/kg or to less than 10.0 mg/kg with construction of a cap in accordance with 40 CFR 761.61 (a)(7) and (a)(8).

WGPC developed a work plan titled *Work Plan, Buffalo Compressor Station, Williams Gas Pipelines Central, Inc., Buffalo, Oklahoma* (Work Plan) to address these tasks.

The following paragraphs summarize the remediation activities conducted at the Site.

Impoundment Area

The remedial objective for this area was to excavate, remove and dispose of soils containing PCB concentrations greater than 1 mg/kg as indicated from past characterization efforts.

The excavation and removal of the PCB impacted soil materials in the Impoundment Area were based upon the analytical results of the soil sampling conducted in this area by Terracon in 2000 and 2002. During remediation, approximately 1,732 tons of impacted soil materials were removed from the Impoundment Area. Upon completion of excavation, removal and loading operations, soil grab samples for field screening and soil composite samples for submittal to the analytical laboratory were collected from the floor and walls of the excavation. Data from these samples indicate that the impacted soil materials within the Impoundment Area had been removed and the remedial objective for this area achieved.

Drain Line and Air Line Piping

The remedial objective for this area was to remove the air and drain lines in the Air Receiver or Auxiliary Room areas exhibiting PCB concentrations exceeding 10

$\mu g/100cm^2$. Approximately 1,408 linear feet of piping were excavated and removed from this area.

During piping excavation and removal, a concrete sump was discovered northwest of the former Meter House. This sump was observed to be in good condition with no visible defects, and was excavated and removed from the Site. During removal, the soil materials surrounding and underlying the sump were inspected. No visual signs of leakage (i.e., stained or moist soil) were observed. This sump was disposed of with the PCB impacted materials removed from the Site.

Air Receiver Area

The remedial objective for this area was to excavate, remove and dispose of soils containing PCB concentrations greater than 1 mg/kg as indicated from past characterization efforts.

The excavation and removal of the PCB impacted soil materials in the Air Receiver Area were based upon the analytical results of the soil sampling conducted in this area by Terracon in 2000 and 2002. During remediation, approximately 18 tons of impacted soil materials were removed from the Air Receiver Area. Upon completion of excavation, removal and loading operations, a soil grab sample for field screening and soil composite samples for submittal to the analytical laboratory were collected from the floor and walls of the excavation. Data from these samples indicate that the impacted soil materials within the Air Receiver Area had been removed and the remedial objective for this area achieved.

Former Meter House

In addition to the PCB remediation conducted at the Site, excavation and removal of surficial soil materials was conducted immediately adjacent to the former meter house

door openings. WGPC elected to conduct these activities because soil sampling conducted by Terracon in March 2002 indicated low (<20 mg/kg) levels of mercury in these areas. During excavation, approximately 2 tons of soil materials were removed from these areas. These soil materials were disposed of with the PCB impacted materials from the Site.

All waste materials generated during the remediation activities conducted at the Site were profiled and disposed of at the Safety-Kleen, Inc. Lone Mountain facility located near Waynoka, Oklahoma.

Remediation activities and demobilization of all equipment from the Site were completed on August 29, 2002.

PCB REMEDIATION REPORT
BUFFALO COMPRESSOR STATION
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HARPER COUNTY, OKLAHOMA
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1.0 INTRODUCTION

WGPC contracted with Diamond and their subcontractor ABI to perform PCB remediation at the Site located near the city of Buffalo in Harper County, Oklahoma. The Site location and topographic features are presented on Figure 1.

On July 18, 2002, WGPC entered into a Consent Order with the USEPA Region VI. This Consent Order was based upon information from activities conducted at the Site by Terracon in 2002 and 2000, SECOR in 1995, Burlington in 1995, and ERM in 1994.

The Consent Order required WGPC to address three (3) areas of the Site, identified as the Impoundment Area, Drain Line and Air Line Piping, and the Air Receiver Area. These areas are shown on Figure 2. The Consent Order required WGPC to implement the following tasks:

- Impoundment Area - Excavate all PCB contaminated soils from the Impoundment Area that are above the cleanup standard of 1 mg/kg or to less than 10.0 mg/kg with construction of a cap in accordance with 40 CFR 761.61 (a)(7) and (a)(8).

- Drain Line and Air Line Piping - Remove the drain line and the underground air lines that exhibit surface PCB concentrations greater than 10 $\mu g/100cm^2$.

- Air Receiver Area - Excavate all PCB contaminated soils from the Air Receiver Area that are above the cleanup standard of 1 mg/kg or to less than 10.0 mg/kg with construction of a cap in accordance with 40 CFR 761.61 (a)(7) and (a)(8).

WGPC developed a Work Plan to address the tasks described above and this plan was used to guide the remedial activities conducted at the Site.

2.0 BACKGROUND

The Site is located approximately one (1) mile northeast of the city of Buffalo, Oklahoma. The site-property encompasses approximately eighteen (18) acres in the NE/4 of the NE/4 of Section 1, Township 27 North, Range 23 West, Harper County, Oklahoma. Area topography is gently rolling hills to flat terrain, and neighboring properties are primarily used for agricultural purposes. The Site has no naturally occurring surface water bodies. The Buffalo Compressor Station was in service from the mid 1960's to the early 1970's.

Main line compressor stations, such as the Buffalo Compressor Station, use large horsepower compressors to move large volumes of natural gas through transmission lines to WGPC's customers or other pipeline transmission/distribution firms. These compressors are started with compressed air, which is generated by an air compressor and stored prior to use in pressurized air receiver tanks. The compressed air system is not directly connected to the natural gas system.

One (1) building at the Site was divided into the engine room (southern portion) and the auxiliary room (northern portion). The air compressor system was located in the auxiliary room. The locations of these former rooms are shown on Figure 2.

After the compressed air is produced it is dried in an air dryer and passed through air lines into the air receiver storage tanks. Due to changes in temperature and pressure, moisture (condensate) accumulates in the air dryer and air receiver storage tanks. In the past, condensate from the air dryer and air receiver storage tanks may have been directed to a drain line, which fed into an underground drainage system. The underground drainage system consisted of a drain line that ran south/southwesterly to an evaporation pond located near the southwest corner of the Site.

Lubricants containing PCBs may have been used at the Buffalo Compressor Station in the air compressor system. PCBs are defined in 40 CFR 761.3 as "any chemical substance that is limited to the biphenyl molecule that has been chlorinated to varying degrees or any combination of substances which contain such substance." Over time, PCB-containing lubricants may have migrated from the air compressor units to the air dryers and air receiver storage tanks, where they could have been released as PCB-containing condensates.

In April 1994, ERM conducted a Site Screening Investigation to determine whether PCBs had migrated from the air compressor units to the air line header, the engine room basement, or soil in the former air receiver area, the former air discharge area, the former pre-lube air pipe area, and the backfilled impoundment. Soil samples were also collected from upgradient and downgradient locations, all on-site. The results of this investigation revealed PCB contamination exceeding 25 mg/kg in one (1) soil sample collected from the former air receiver area with 38 mg/kg (also referred to as parts per million or ppm). Four (4) additional soil samples contained PCB concentrations between 9.4 mg/kg and 21.0 mg/kg.

In 1995, Burlington conducted an evaluation of the presence of PCB on metallic surfaces (primarily piping) and concrete surfaces, including concrete floors and pipechases. Due to the presence of water in the basement, Burlington did not investigate the presence of PCB in the basement. Burlington collected 48 wipe samples and submitted them for laboratory analysis. Nine (9) samples contained PCB concentration exceeding 10 $\mu g/100cm^2$: One (1) from the floor of the auxiliary room, seven (7) from the auxiliary room pipechase, and one (1) from a pipe to the air receivers.

In 1995, SECOR performed a site characterization of the basement floor following removal of non-PCB water, sludge and oil that had collected in the basement. Analytical results of the sludge and oil samples collected from the basement did not have concentrations of PCBs exceeding 1.0 mg/kg. Subsequently SECOR preformed concrete cleaning and removal of piping inside the building where the previous investigations had detected elevated concentrations of PCBs. Wipe samples were collected to verify the attainment of cleanup criteria. Any location where the verification samples exceeded 10 $\mu g/100cm^2$ was cleaned and re-sampled until all target areas were below 10 $\mu g/100cm^2$ PCB. Approximately 3,000 square feet of concrete were chemically cleaned of PCBs.

In 2000, Terracon performed soil and wipe sampling at the Site. Soil samples were collected from the impoundment because ERM had not sampled the former impoundment to WGPC's satisfaction. Soil samples were also collected from the air receiver discharge area. Soil samples from the impoundment were analyzed for PCBs, RCRA metals and SVOCs. Soil samples from the Air Receiver Area were analyzed for PCBs. Two (2) of the grids in the Impoundment Area were found to have PCB concentrations exceeding 10 mg/kg. However, RCRA metal and SVOC concentrations detected in the Impoundment Area did not exceed regulatory criteria. Sixteen (16) wipe samples were collected from the air lines, drain lines, and a concrete floor drain (located in the auxiliary room) that had not previously been sampled. Seven (7) of these 16 wipe samples contained concentrations of PCB greater than 10 $\mu g/100cm^2$. These seven (7) samples were collected from piping in the pipechase on the west side of the auxiliary room. A report of activities was submitted to EPA in May 2001.

In March 2002, Terracon performed additional soil sampling in the former Impoundment Area and in the Air Receiver area. This additional sampling was conducted to further

delineate the PCB impacts to soil in these areas. A report summarizing these additional sampling activities was submitted to EPA in April 2002.

Based upon information derived from these activities, WGPC entered into the Consent Order previously discussed in Section 1.0.

3.0 FIELD ACTIVITIES

The following Sections provide detailed descriptions of the activities performed to achieve the remedial objectives and restore the affected portions of the Site. All field activities were conducted in accordance with the Work Plan and Diamond's Site-Specific Health and Safety Plan, and were documented in a dedicated field logbook. Field activities were conducted during the period August 19 - 29, 2002. Photographs documenting the various phases of the remedial activities are provided in Appendix A.

3.1 Sample Collection Procedure

During implementation of the remedial activities at the Site, wipe and soil samples were collected. PCB wipe samples were collected utilizing a wipe sample kit and a pre-cut 10 cm x 10 cm sampling template. Each wipe sample kit consisted of a 10 cm x 10 cm hexane-soaked gauze pad within a one (1) ounce laboratory-prepared container. Wipe sampling protocol specifies that a sampling template be placed over the area to be sampled. Following placement of the sampling template, a hexane-soaked gauze pad is removed from its container utilizing disposal forceps, and the exposed area within the template is quickly wiped in both a vertical and horizontal direction with the gauze pad. The gauze pad is then reinserted into the sample container and the container is sealed. The sample container is then labeled as to source, stored on ice for preservation, and placed under chain-of-custody control for transport to the analytical laboratory.

Grab samples of soil were collected from the 0 to 6 inch depth interval with a clean stainless steel trowel. Following collection, each grab sample was placed into a clean stainless steel bowl and mixed thoroughly. An aliquot of the soil was then placed directly into a laboratory-prepared container. The sample container was then labeled as to source, placed on ice for preservation, and placed under chain-of-custody control for transport to the analytical laboratory.

Following each days activities, the samples collected that day were shipped under chain-of-custody control, via overnight courier, to Environmental Science Corporation (ESC) (Mt. Juliet, Tennessee) and/or Test America, Inc. (TAI) (Nashville, Tennessee) for PCB analyses according to SW-846 Method 8082. ESC is an Oklahoma Department of Environmental Quality (ODEQ) approved laboratory (Certification No.: 9915) and TIA is an ODEQ approved laboratory (Certification No.: 9412).

3.2 Impoundment Area

The remedial objective for this area was to excavate, remove and dispose of soils containing PCB concentrations greater than 1mg/kg as indicated from past characterization efforts.

The excavation and removal of the PCB impacted soils in the Impoundment Area were based upon the analytical results of the soil sampling conducted in this area by Terracon in 2001 and 2002. On Figures 11 through 17 of the Work Plan, WGPC presented the proposed limits of excavation necessary to remediate the PCB impacts present within the Impoundment Area. Each of these figures presented the lateral extent of excavation required to remediate a specific depth interval of the Impoundment Area. Copies of these Work Plan figures are provided in Appendix B. The proposed limits of excavation presented on these figures have been combined and are shown on Figure 3 of this report.

On August 19, 2002, and prior to initiating excavation activities in the Impoundment Area, Diamond surveyed the sample points within each grid to be excavated for the purpose of establishing the existing ground elevation at each point prior to excavation. These survey data are provided in Appendix C, and are presented graphically on Figure 4.

During the period August 20-23, 2002, the PCB impacted soils within the Impoundment Area were excavated using a trackhoe. Upon excavation, the impacted soil materials were loaded directly onto semi-dumptrucks for transportation to the disposal facility. During excavation activities, Diamond continually conducted construction surveying to ensure that the required excavation depths within each proposed area were achieved. During remediation, approximately 1,732 tons of impacted materials were removed from the Impoundment Area.

Upon completion of impacted soil excavation, removal and loading operations, Diamond resurveyed the points within the grids for the purpose of determining that the proposed excavation depths within each of the areas were achieved. These survey data are provided in Appendix C, and are presented graphically on Figure 5. Based upon these data, it was determined that the proposed excavation depths within each area were achieved.

During the period August 21-22, 2002, ABI collected soil grab samples BUFIMP-1 through BUFIMP-14 from within the open excavation of the former Impoundment Area for PCB field screening. These grab samples were collected at the locations shown on Figure 6 for the purpose of ensuring that all of the PCB impacted soil materials had been removed from the Impoundment Area prior to collecting confirmation soil samples for submittal to the analytical laboratory. These grab samples were analyzed utilizing a mobile GC unit provided by AQUATERRA Environmental Solutions, Inc. (AQUATERRA). When processing these samples, AQUATERRA utilized a slightly different sample identification nomenclature and referred to these samples as BUFF-I-1 through BUFF-I-14. A copy of the AQUATERRA field screening results is provided in Appendix D. As can be seen in Appendix D, the concentrations of PCBs observed within 12 of the 14 grab samples screened were below 10 ppm. Field GC screening data and laboratory analytical data correlation from previously remediated WGPC sites

has indicated that a mobile GC unit result of 10 ppm or less correlates relatively well to a laboratory analytical result of less than 1 mg/kg. The concentrations of PCBs observed in screening soil samples BUFF-I-10 (16.33 ppm) and BUFF-I-14 (28.67 ppm) exceeded 10 ppm, and therefore, additional soil removal was conducted in these areas. At the BUFIMP-10 (AQUATERRA BUFF-I-10) sample location, an additional one (1) foot vertically and ten (1) feet horizontally of soil material was excavated and removed. Following these excavation activities grab sample BUFIMP-12 (AQUATERRA BUF-I-12) was collected. The screening results for the BUFF-I-12 sample indicated a PCB concentration of 1.00 ppm. Upon receipt of the screening data for this grab sample, an additional one (1) foot vertically and ten (1) feet horizontally of soil material was removed from this area and grab sample BUFIMP-13 (AQUATERRA BUF-I-13) was collected. No detectable concentrations of PCBs were observed in this screening grab sample. Based upon these screening data and the field screening results from soil grab sample BUFIMP-14, the south wall of the excavation was over-excavated approximately two (2) feet horizontally prior to the collection of confirmatory soil samples.

Upon receipt of field GC screening data indicating that the PCB impacted soil material within the Impoundment Area had been removed, ABI collected three (3) composite confirmation soil samples (BUFPE-01 through BUFPE-03) from within the excavated area for submittal to the analytical laboratory. The locations of these soil samples are shown on Figure 6. Confirmation soil sample BUFPE-01 was a composite sample comprised of soil grab samples taken from the north and east walls of the excavation at the "D" interval, BUFPE-02 was a composite sample comprised of four (4) soil grab samples taken from the floor of the excavation (1 per quadrant), and confirmation soil sample BUFPE-03 was a composite sample comprised of soil grab samples taken from the south and west walls of the excavation at the "D" interval. A summary of the analytical data for these samples is presented on Table 1, and a complete copy of the

laboratory analytical report and chain-of-custody documentation is provided in Appendix E. As can be seen on Table 1, no detectable concentrations of PCBs were detected in these post-excavation confirmation soil samples.

An aliquot of soil from composite soil samples BUFPE-01 through BUFPE-03 was analyzed by AQUATERRA in their mobile GC unit. These samples were referred to by AQUATERRA as soil samples BUFF-PE-01 through BUFF-PE-03, and the screening data from these samples are presented in Appendix D. As can be seen in Appendix D, no detectable concentrations of PCBs were detected in screening soil samples BUFF-PE-01 and BUFF-PE-03, and 0.18 ppm PCB was detected in screening sample BUFF-PE-02.

Upon receipt of field GC screening and laboratory analytical data confirming the PCB impacted soil materials within the Impoundment Area had been removed, the excavated area was restored. Restoration of the Impoundment Area consisted of the placement, compaction and contouring of soil backfill material. ABI collected a grab sample (BUFBS-01) of this soil material for submittal to the analytical laboratory for PCB analysis (SW-846 Method 8082). No detectable concentrations of PCBs were observed in this soil sample. A summary of the analytical data for this sample is presented in Table 1, and a complete copy of the laboratory analytical report and chain-of-custody documentation is provided in Appendix E. Once backfilled, the area was graded to minimize erosion but encourage surface water runoff.

3.3 Drain Line and Air Line Piping

The remedial objective for this area was to remove the air and drain lines in the Air Receiver or Auxiliary Room areas exhibiting PCB concentrations exceeding 10 $\mu g/100cm^2$.

During the period August 19 - 22, 2002, Diamond excavated and removed the air and drain line piping at the Site. The former location of this piping is shown on Figures 2 and 7. During excavation, these lines were observed to be in good condition with no visible defects. Approximately 1,408 linear feet of piping were excavated and removed from this area, temporarily stored in the Impoundment Area, and disposed of with the impacted soils removed from the Site.

On August 20, 2002, during piping excavation and removal, a concrete sump was discovered northwest of the former Meter House. The location of this sump is shown on Figures 2 and 7. The sump had inside dimensions of 2.5 feet wide by 2.5 feet long by 3.0 feet in depth, and outside dimensions of 4.0 feet wide by 4.0 feet long by 4.0 feet in depth. This sump was observed to be in good condition with no visible defects and contained approximately two (2) feet of sediment and fluids. On this date, Diamond removed and solidified the fluids contained within the sump. Upon completion of these activities, ABI collected a sample of the sediment (BUFDL-01) contained within this sump, and collected a wipe sample (BUFDL-02) from the interior wall of this sump. The locations of these samples are shown on Figure 7. A summary of the analytical data for these samples is presented in Tables 1 and 2, respectively. A complete copy of the laboratory analytical report and chain-of-custody documentation is provided in Appendix E. As can be seen on Tables 1 and 2, PCB 1254 was detected in BUFDL-01 and BUFDL-02 at concentrations of 9,600 mg/kg and 2,300 $\mu g/100cm^2$, respectively. Upon completion of sampling activities, Diamond excavated and removed the sump. During removal, the soil materials surrounding and underlying the sump were inspected. No visual indications of leakage (i.e., stained or moist soil) were observed. The sump, sediment and solidified water were disposed of along with the other PCB impacted materials removed from the Site.

During piping excavation and removal it was observed that the four (4)-inch drain line that ran south/southwest to the Impoundment Area was connected to the former cooler drain line near the southeast corner of the cooler/fin-fan pad. On August 21, 2002, Diamond cut and removed the former cooler drain line at a location approximately two (2) feet north of its connection with the four (4)-inch drain line. On this date, ABI collected wipe sample BUFDL-03 from within the portion of the former cooler drain line left in place. The location of this wipe sample is shown on Figure 7. A summary of the analytical data for this sample is presented in Table 2, and a complete copy of the laboratory analytical report and chain-of-custody documentation is provided in Appendix E. As can be seen on Table 2, no detectable concentrations of PCBs were observed in this sample. The portion of the former cooler drain line excavated and removed was disposed of along with the air and drain line piping. The remaining portion of the cooler drain line was plugged with concrete and left in-place.

During piping excavation and removal it was observed that one (1) of the two (2)-inch lines exiting the Auxiliary Room pipe chase connected to a water valve located southwest of the former cooler/fin-fan pad. On August 22, 2002, Diamond disconnected this line from the valve at this location and removed it. On this date, ABI collected wipe sample BUFDL-05 from within the end of the 2-inch pipe formerly connected to the valve. The location of this wipe sample is shown on Figure 7. As summary of the analytical data for this sample is presented in Table 2, and a complete copy of the laboratory analytical report and chain-of-custody documentation is provided in Appendix E. As can be seen on Table 2, no detectable concentrations of PCBs were observed in this wipe sample. This two (2)-inch diameter line was excavated, removed and disposed of along with the air and drain line piping.

Following complete removal of the air and drain line piping, the excavated trenches were backfilled and the Site was returned to its original grade. In addition, the pipe

chase in the Auxiliary Room was filled with concrete and finished to match the surrounding concrete slab.

3.4 Air Receiver Area

The remedial objective for this area was to excavate, remove and dispose of soils containing PCB concentrations greater than 1mg/kg as indicated from past characterization efforts.

On August 20, 2002, Diamond excavated soil from the Air Receiver Area. Upon excavation, the impacted soil materials were loaded directly onto semi-dumptrucks for transportation to the disposal facility. The excavated area was approximately 21 feet wide by 19 feet long and approximately 2 feet deep. The location of this excavated area is shown on Figure 7. During remediation, approximately 18 tons of impacted materials were removed from the Air Receiver Area.

On August 21, 2002 and following impacted soil excavation and removal activities, ABI collected three (3) post-excavation composite confirmation soil samples (BUFAR-01 through BUFAR-03) from within this excavated area for laboratory analysis. The locations of these soil samples are shown on Figure 7. Confirmation soil sample BUFAR-01 was a composite sample comprised of four (4) soil grab samples taken from the floor of the excavation (1 per quadrant), BUFAR-02 was a composite sample comprised of soil grab samples taken from the north and south walls of the excavation approximately one (1) foot below ground level, and BUFAR-03 was a composite sample comprised of soil grab samples taken from the east and west walls of the excavation approximately one (1) foot below ground level. A summary of the analytical data for these samples is presented on Table 1, and a complete copy of the laboratory analytical report and chain-of-custody documentation is provided in Appendix E. As

can be seen on Table 1, no detectable concentrations of PCBs were observed in these soil samples.

In addition to confirmation soil samples BUFAR-01 through BUFAR-03, ABI collected a soil grab sample (BUFAR-Floor) (AQUATERRA AR-1) from the floor of the excavation for field GC screening. The location of this soil sample is shown on Figure 7. The field GC screening data for this soil sample is provided in Appendix D. As can be seen in Appendix D no detectable concentrations of PCBs were observed in this soil sample.

Upon receipt of field GC screening and laboratory analytical data confirming the PCB impacted soil material within the Air Receiver Area had been removed, the excavated area was restored. Restoration of the excavated area consisted of the placement, compaction and contouring of clean soil backfill material until the area had been returned to its original grade.

3.5 Former Meter House

In March 2002, Terracon collected soil samples at locations immediately adjacent to the former meter house door openings to assess these areas for potential mercury impacts. Data from this investigation are included in Appendix F. As can been seen in Appendix F, the total mercury concentrations observed in the soil samples taken from the 0 to 6-inch depth interval in these areas ranged from 0.18 mg/kg (BUF-MH-SD-4) to 5.40 mg/kg (BUF-MH-ND-1), and the total mercury concentrations observed in the soil samples taken from the 12 to 18-inch depth interval in these areas ranged from below laboratory detection limits (<0.022 mg/kg) (BUF-MH-SD-4) to 0.19 mg/kg (BUF-MH-ND-2).

Although the analytical data for the soil samples taken in these two (2) areas indicated low (<20 mg/kg) levels of mercury, WGPC elected to excavate these surficial soils. On

August 20, 2002, Diamond excavated the shallow soils situated adjacent to the former meter house door openings. The locations of these two (2) areas of excavation are shown on Figure 7. Upon excavation, these soil materials were loaded directly onto semi-dumptrucks for transportation to the disposal facility. Each excavated area was 5 feet wide by 6 feet long and 1.5 feet in depth. No additional soil samples were collected from these areas.

During excavation, approximately 2 tons of soil materials were removed from these areas. These soil materials were disposed of with the PCB impacted materials from other areas of the Site. Upon completion of excavation activities, these areas were backfilled with clean soil material and returned to their original grade.

3.6 Decontamination Procedures

During field sampling activities, decontamination of non-disposable sampling equipment involved washing the equipment thoroughly with an Alconox™ solution, double rinsing the equipment with de-ionized water, and drying the equipment with a clean paper towel. Following decontamination, the sampling equipment was stored in clean, sealed plastic bags until use.

Upon completion of remedial activities at the Site, the trackhoe utilized to excavate and load the PCB impacted materials was decontaminated by Diamond. Decontamination involved washing the trackhoe bucket thoroughly with an Alconox™ solution, followed by a steam pressure washer rinse. All fluids generated during these decontamination activities were collected, solidified, and disposed of as PCB containing waste.

On August 23, 2002 and following decontamination, ABI collected wipe sample BUFHE-01 from the exterior of the trackhoe bucket that was utilized to excavate and load the PCB impacted materials at the Site. A summary of the analytical data for this

sample is presented on Table 2, and a complete copy of the laboratory analytical reports and chain-of-custody documentation is provided in Appendix E. No detectable concentrations of PCBs were observed in this wipe sample.

Following receipt of laboratory analytical data confirming proper decontamination, the trackhoe was demobilized from the Site.

3.7 Waste Disposal

Remediation of the Site included the excavation and removal of approximately 1,754 tons of impacted soil and debris, 1,408 linear feet of drain line piping, and the concrete sump.

All waste materials generated during remediation of the Site were disposed of at the Safety-Kleen, Inc. Lone Mountain facility located near Waynoka, Oklahoma. Copies of the Uniform Hazardous Waste Manifests and PCB Waste Disposable Certificates for these waste materials are provided in Appendix G.

3.8 Demobilization

Final demobilization from the Site was completed on August 29, 2002.

4.0 QUALITY ASSURANCE AND QUALITY CONTROL

The following sections describe activities implemented to ensure that the Quality Assurance and Quality Control (QA/QC) requirements specified in the Quality Assurance Project Plan (QAPP) were achieved.

4.1 Soil Grab Samples

As specified in the Work Plan, following equipment decontamination and prior to conducting soil sampling activities, ABI collected soil sampling equipment blanks BUFEQ-01, BUFEQ-03 and BUFEQ-04. Each of these equipment blanks was collected by pouring distilled water over a sampling trowel and allowing the water to drain into a previously decontaminated stainless steel bowl. The rinsate was then placed into a laboratory-prepared sample container, labeled as to source and contents, placed on ice for preservation, and placed under chain-of-custody control for transport to the analytical laboratory for PCB analyses (SW-846 method 8082). No detectable concentrations of PCBs were observed in these equipment blank samples. A summary of the analytical data for these equipment blank samples is presented in Table 3, and a complete copy of the laboratory analytical reports and chain-of-custody documentation is provided in Appendix E.

As specified in the QAPP, blind duplicates and split samples were collected for approximately 10 percent of the total number of samples collected at the Site. A blind duplicate of soil sample BUFPE-01, identified in the chain of custody form as BLIND A, was collected and submitted to ESC for analysis. In addition, a duplicate of sediment sample BUFDL-01 was collected and split between ESC and TAI. Summaries of the analytical results for blind duplicates and split samples are presented on Tables 4 and 5, respectively, and a complete copy of the laboratory analytical reports and chain-of-custody documentation is provided in Appendix E.

4.2 Wipe Samples

As specified in the Work Plan, ABI collected wipe sample equipment blanks BUFEQ-02 and BUFEQ-05. A summary of the analytical data for these equipment blank samples is presented in Table 3, and a complete copy of the laboratory analytical reports and chain-of-custody documentation is provided in Appendix E. These equipment blanks were collected by removing the gauze pad from the laboratory-supplied container using disposable forceps, and then placing the gauze pad back inside the container. A concentration of PCB 1254 (43μg/100cm^2) was detected in the initial wipe equipment blank sample BUFEQ-02. Upon receipt of the analytical data for this sample, ABI contacted ESC and discussed these detectable concentrations of PCBs. After reviewing the laboratory data, ESC indicated that the data for this sample was valid. ESC also indicated that this sample was analyzed in the same batch as sediment sample BUFDL-01 and wipe sample BUFDL-02, both of which contained detectable concentrations of PCB 1254. A wipe containing concentrations of PCBs might bias the analytical results of subsequent samples higher, potentially resulting in a false-positive detection. However, it would not affect the analytical results of those samples with non-detectable concentrations of PCBs. Therefore, to evaluate the potential that the detectable concentrations of PCBs observed in wipe equipment blank sample BUFEQ-02 could have been the result of residual concentrations of PCBs within the laboratory instruments, ABI collected wipe equipment blank sample BUFEQ-05. No detectable quantities of PCBs were observed in this wipe equipment blank sample.

4.3 Assessment of Data Quality

Data quality was assessed by comparing the accuracy, precision, completeness, representativeness and comparability associated with the laboratory data to the data quality objectives stipulated in the QAPP.

Accuracy is defined as the degree of agreement between the mean of a set of results and an accepted reference or true value. The accuracy associated with a set of results can be estimated by calculating percent recoveries of analytes of known concentrations. The QAPP requires the contracted laboratory to report percent recoveries of surrogates in all samples, and spike recoveries in matrix spikes and laboratory control samples. The QAPP also requires that these recoveries meet internal laboratory acceptance limits or limits stipulated in SW-846. With the exception of instances that involved dilutions and/or other interferences due to the sample matrix itself, surrogate and matrix spike recoveries met established laboratory acceptance limits. In a few cases where one (1) of the surrogates failed to meet acceptance limits, the alternate surrogate was within established laboratory control criteria.

Precision is defined as the agreement among individual measurements of the same property. Precision is assessed by means of duplicate/replicate sample analyses or repeatability, and is expressed in terms of relative percent difference (RPD). To determine the precision associated with the analytical results for this project, one (1) set of blind duplicate samples and one (1) set of split samples were collected. All duplicate and split samples were soils, as true duplicates are not feasible for wipe samples. Duplicate samples were submitted to ESC for analysis. Split samples were split between ESC and TAI.

No reportable quantities of PCBs were observed in the blind duplicates. The detection limits reported for the duplicates were comparable, so an estimate of the RPD was calculated using the sample detection limits. The estimate RPD obtained in this manner was 14%, which is within the 80% limit stipulated in the QAPP. A summary of the results for blind duplicates is presented in Table 4.

Both ESC and TAI reported detectable levels of PCB-1254 in BUFDL-01. ESC reported 9,600 mg/kg, with a detection limit of 410 mg/kg, while TAI reported 7,410

mg/kg, with a detection limit of 348 mg/kg. Both laboratories reported the same dilution factor (5,000), with comparable detection limits. The relative percent difference between the detected values of PCB-1254 was 26%, which is within the 50% limit stipulated in the QAPP for split samples. A summary of the results for split samples is presented in Table 5.

Another useful estimate of the precision associated with a set of data is provided by the RPD between percent recoveries in the matrix spike (MS) and matrix spike duplicate (MSD). Both laboratories analyzed a matrix spike and matrix spike duplicate along with each analytical batch. In all instances, the RPD between percent recoveries in the MS/MSD pair was within established laboratory control criteria.

Comparability is the degree to which a data set can be compared to another. Comparability between sets of data can be achieved by using consistent methods in the collection and analysis of samples and by employing standards that can be traced to a reliable source. Sample collection and analysis were performed in accordance to guidelines set forth in the QAPP. Both ESC and TAI performed second-column confirmations as specified in SW-846 Method 8082.

Representativeness is the degree to which a sample or group of samples is indicative of the population being studied. To achieve representativeness, the QAPP requires that a sufficient number of unbiased samples be collected as specified in Section A6 of that document. Furthermore, the QAPP requires that at least one (1) equipment blank be collected for every forty (40) samples to verify that cross-contamination from sampling equipment is not being introduced. A representative group of samples was collected at the Site as specified in the QAPP. As stated previously, equipment blanks were collected along with soil and wipe samples. Method blanks were also reviewed for possible cross-contamination arising from laboratory equipment, and were found to be compliant.

Completeness is the ratio of valid data points obtained to the number of data points generated at the Site. The QAPP specifies a goal of 95% completeness for the project. No data points were judged invalid after the validation process, therefore, this completeness goal was met.

5.0 CONCLUSIONS

Based upon the remedial actions described within this Report, the remedial action objectives stated within the Consent Order, dated July 18, 2002, have been achieved.

REFERENCES

1. Burlington Environmental, Inc., "*PCB Site Characterization, Williams Natural Gas Facility, Buffalo, Oklahoma*", April 6, 1995.

2. Diamond Services Company, *"Health and Safety Plan, Buffalo Compressor Station, Williams Gas Pipeline Central, Inc., Buffalo, Oklahoma*", July 25, 2002.

3. ERM-Rocky Mountain, Inc., "*PCB General Site Characterization, Former Buffalo Compressor Station*", December 2, 1994.

4. SECOR International, Inc., "*Report of Activities, Buffalo Compressor Station, Buffalo, Oklahoma*", July 1995.

5. Terracon, "*PCB Site Characterization, Buffalo Compressor Station, Buffalo, Oklahoma, NE/4, NE/4, Sec. 1, T27N, R23W, Harper County*", February 27, 2001.

6. Terracon, "*Limited PCB Site Assessment Report Addendum, Williams Gas Pipeline South Central, Buffalo Compressor Station, Buffalo, Oklahoma*", April 2, 2002.

7. United States Environmental Protection Agency, Region VII, Administrative Order on Consent, Docket No.: CERCLA-6-07-02, July 18, 2002.

8. Williams Gas Pipelines Central, Inc., "*Work Plan, Buffalo Compressor Station, Williams Gas Pipelines Central, Inc., Buffalo, Oklahoma*", March 2002.

TABLES

TABLE 1 : SUMMARY OF LABORATORY ANALYTICAL RESULTS FOR SOIL SAMPLES
BUFFALO COMPRESSOR STATION
WILLIAMS GAS PIPELINES CENTRAL, INC.
HARPER COUNTY, OKLAHOMA

ANALYTE	Sample ID	BUFBS-01			BUFDL-01			BUFAR-01			BUFAR-02			BUFAR-03			BUFPE-01			BUFPE-02			BUFPE-03		
	Sampled:	19-Aug-02			20-Aug-02			21-Aug-02			21-Aug-02			21-Aug-02			22-Aug-02			22-Aug-02			22-Aug-02		
	Units	Result	DQ	RL	Result	DQ	RL	Result	DQ	RL	Result	DQ	RL	Result	DQ	RL	Result	DQ	RL	Result	DQ	RL	Result	DQ	RL
PCBs																									
PCB 1016	mg/kg	ND	D10	0.52	ND	D5000	410	ND	D10	0.53	ND	D10	0.52	ND	D10	0.53	ND		0.63	ND	D10	0.55	ND	D10	0.53
PCB 1221	mg/kg	ND	D10	0.52	ND	D5000	410	ND	D10	0.53	ND	D10	0.52	ND	D10	0.53	ND		0.63	ND	D10	0.55	ND	D10	0.53
PCB 1232	mg/kg	ND	D10	0.52	ND	D5000	410	ND	D10	0.53	ND	D10	0.52	ND	D10	0.53	ND		0.63	ND	D10	0.55	ND	D10	0.53
PCB 1242	mg/kg	ND	D10	0.52	ND	D5000	410	ND	D10	0.53	ND	D10	0.52	ND	D10	0.53	ND		0.63	ND	D10	0.55	ND	D10	0.53
PCB 1248	mg/kg	ND	D10	0.52	ND	D5000	410	ND	D10	0.53	ND	D10	0.52	ND	D10	0.53	ND		0.63	ND	D10	0.55	ND	D10	0.53
PCB 1254	mg/kg	ND	D10	0.52	9600	D5000	410	ND	D10	0.53	ND	D10	0.52	ND	D10	0.53	ND		0.63	ND	D10	0.55	ND	D10	0.53
PCB 1260	mg/kg	ND	D10	0.52	ND	D5000	410	ND	D10	0.53	ND	D10	0.52	ND	D10	0.53	ND		0.63	ND	D10	0.55	ND	D10	0.53
Percent Solids	%	95.2			61.5			94.2			95.6			94.8			79.8			91.0			94.4		

NOTES:

1. DQ: Data Qualifier
2. RL: Reporting Limit
3. ND : Analyte was not detected above the laboratory reporting limit.
4. D: Result was obtained from a secondary dilution. Actual dilution factor follows D-qualifier.
5. Results are reported on a dry weight basis.
6. mg/kg: milligrams per kilogram

TABLE 2 : SUMMARY OF LABORATORY ANALYTICAL RESULTS FOR WIPE SAMPLES
BUFFALO COMPRESSOR STATION
WILLIAMS GAS PIPELINES CENTRAL, INC.
HARPER COUNTY, OKLAHOMA

ANALYTE	Sample ID:	BUFDL-02			BUFDL-03			BUFDL-05			BUFHE-01		
	Sampled:	20-Aug-02			21-Aug-02			22-Aug-02			23-Aug-02		
	Units	Result	DQ	RL	Result	DQ	RL	Result	DQ	RL	Result	DQ	RL
PCBs													
PCB 1016	ug/wipe	ND	D500	500	ND	D20	10	ND	D20	10	ND	D20	10
PCB 1221	ug/wipe	ND	D500	500	ND	D20	10	ND	D20	10	ND	D20	10
PCB 1232	ug/wipe	ND	D500	500	ND	D20	10	ND	D20	10	ND	D20	10
PCB 1242	ug/wipe	ND	D500	500	ND	D20	10	ND	D20	10	ND	D20	10
PCB 1248	ug/wipe	ND	D500	500	ND	D20	10	ND	D20	10	ND	D20	10
PCB 1254	ug/wipe	2300	D500	500	ND	D20	10	ND	D20	10	ND	D20	10
PCB 1260	ug/wipe	ND	D500	500	ND	D20	10	ND	D20	10	ND	D20	10

NOTES:

1. DQ: Data Qualifier
2. RL: Reporting Limit
3. ND : Analyte was not detected above the laboratory reporting limit.
4. D: Result was obtained from a secondary dilution. Actual dilution factor follows D-qualifier.
5. ug/wipe: micrograms per wipe (100 cm^2)

TABLE 3 : SUMMARY OF LABORATORY ANALYTICAL RESULTS FOR EQUIPMENT BLANKS
BUFFALO COMPRESSOR STATION
WILLIAMS GAS PIPELINES CENTRAL, INC.
HARPER COUNTY, OKLAHOMA

EQUIPMENT BLANKS FOR SOIL SAMPLES

ANALYTE	Sample ID:	BUFEQ-01			BUFEQ-03			BUFEQ-04		
	Sampled:	19-Aug-02			21-Aug-02			22-Aug-02		
	Units	Result	DQ	RL	Result	DQ	RL	Result	DQ	RL
PCBs										
PBC 1016	mg/L	ND		0.00050	ND		0.00050	ND		0.00050
PCB 1221	mg/L	ND		0.00050	ND		0.00050	ND		0.00050
PCB 1232	mg/L	ND		0.00050	ND		0.00050	ND		0.00050
PCB 1242	mg/L	ND		0.00050	ND		0.00050	ND		0.00050
PCB 1248	mg/L	ND		0.00050	ND		0.00050	ND		0.00050
PCB 1254	mg/L	ND		0.00050	ND		0.00050	ND		0.00050
PCB 1260	mg/L	ND		0.00050	ND		0.00050	ND		0.00050

EQUIPMENT BLANKS FOR WIPE SAMPLES

ANALYTE	Sample ID:	BUFEQ-02			BUFEQ-05		
	Sampled:	20-Aug-02			23-Aug-02		
	Units	Result	DQ	RL	Result	DQ	RL
PCBs							
PCB 1016	ug/wipe	ND	D20	20	ND	D20	10
PCB 1221	ug/wipe	ND	D20	20	ND	D20	10
PCB 1232	ug/wipe	ND	D20	20	ND	D20	10
PCB 1242	ug/wipe	ND	D20	20	ND	D20	10
PCB 1248	ug/wipe	ND	D20	20	ND	D20	10
PCB 1254	ug/wipe	43	D20	20	ND	D20	10
PCB 1260	ug/wipe	ND	D20	20	ND	D20	10

NOTES:

1. DQ: Data Qualifiers (Flags)
2. RL: Reporting Limit
3. ND : Analyte was not detected above the laboratory reporting limit.
4. D: Result was obtained from a secondary dilution. Actual dilution factor follows D-qualifier.
5. mg/L: milligrams per liter
6. ug/wipe: micrograms per wipe (100 cm^2)

TABLE 4 : SUMMARY OF LABORATORY ANALYTICAL RESULTS FOR BLIND DUPLICATE SAMPLES
BUFFALO COMPRESSOR STATION
WILLIAMS GAS PIPELINES CENTRAL, INC.
HARPER COUNTY, OKLAHOMA

ANALYTE	Sample ID:	BUFPE-01			BLIND A			RPD[8] (%)
	Sampled:	22-Aug-02			22-Aug-02			
	Laboratory:	ESC			ESC			
	Units	Result	DQ	RL	Result	DQ	RL	
PCBs								
PCB 1016	mg/kg	ND		0.63	ND	D10	0.55	13.6%
PCB 1221	mg/kg	ND		0.63	ND	D10	0.55	13.6%
PCB 1232	mg/kg	ND		0.63	ND	D10	0.55	13.6%
PCB 1242	mg/kg	ND		0.63	ND	D10	0.55	13.6%
PCB 1248	mg/kg	ND		0.63	ND	D10	0.55	13.6%
PCB 1254	mg/kg	ND		0.63	ND	D10	0.55	13.6%
PCB 1260	mg/kg	ND		0.63	ND	D10	0.55	13.6%
Percent Solids	%	79.8		—	90.9		—	13.0%

NOTES:

1. DQ: Data Qualifier
2. RL: Reporting Limit
3. ND : Analyte was not detected above the laboratory reporting limit.
4. D: Result was obtained from a secondary dilution. Actual dilution factor follows D-qualifier.
5. Results are reported on a dry weight basis.
6. mg/kg: milligrams per kilogram
7. ESC : Environmental Science Corporation
8. RPD: Relative Percent Difference. Reporting limits were used for calculation where results were below reportable levels.

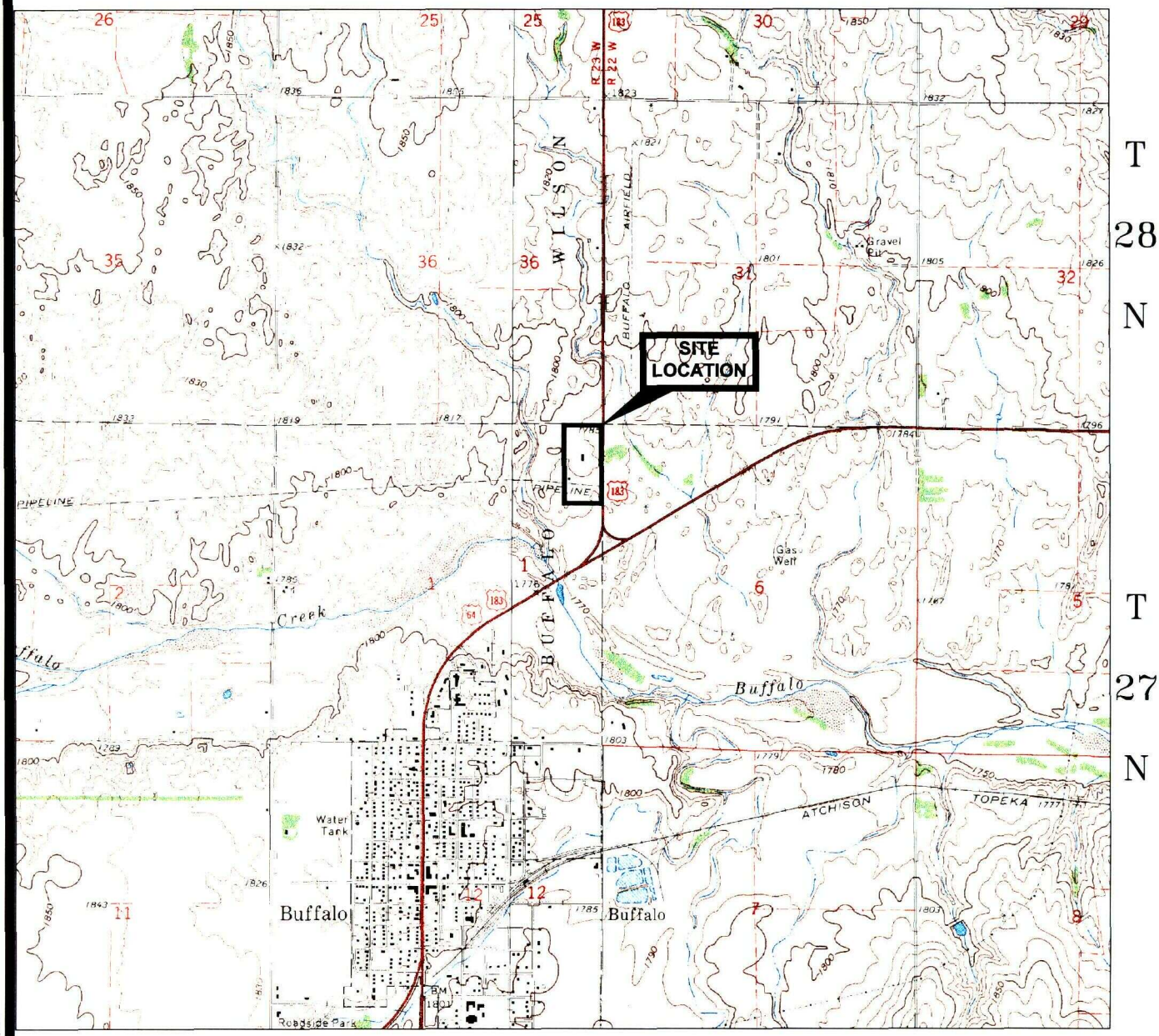
TABLE 5 : SUMMARY OF LABORATORY ANALYTICAL RESULTS FOR SPLIT SAMPLES
BUFFALO COMPRESSOR STATION
WILLIAMS GAS PIPELINES CENTRAL, INC.
HARPER COUNTY, OKLAHOMA

ANALYTE	Sample ID:	BUFDL-01			BUFDL-01			RPD[9] (%)
	Sampled:	20-Aug-02			20-Aug-02			
	Laboratory:	ESC			TEST			
	Units	Result	DQ	RL	Result	DQ	RL	
PCBs								
PCB 1016	mg/kg	ND	D5000	410	ND	D5000	348	16.4%
PCB 1221	mg/kg	ND	D5000	410	ND	D5000	695	51.6%
PCB 1232	mg/kg	ND	D5000	410	ND	D5000	348	16.4%
PCB 1242	mg/kg	ND	D5000	410	ND	D5000	348	16.4%
PCB 1248	mg/kg	ND	D5000	410	ND	D5000	348	16.4%
PCB 1254	mg/kg	9600	D5000	410	7410	D5000	348	25.7%
PCB 1260	mg/kg	ND	D5000	410	ND	D5000	348	16.4%
Percent Solids	%	61.5		--	56.4		--	8.7%

NOTES:

1. DQ: Data Qualifier
2. RL: Reporting Limit
3. ND : Analyte was not detected above the laboratory reporting limit.
4. D: Result was obtained from a secondary dilution. Actual dilution factor follows D-qualifier.
5. Results are reported on a dry weight basis.
6. mg/kg: milligrams per kilogram
7. ESC : Environmental Science Corporation
8. TEST : Test America Inc.
9. RPD: Relative Percent Difference. Reporting limits were used for calculation where results were below reportable levels.

FIGURES



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AND BUFFALO SE, OKLAHOMA 1970

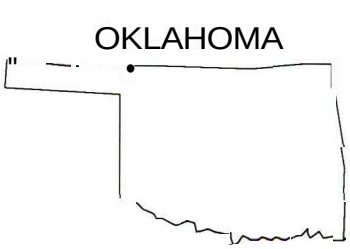

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FIGURE TITLE	SITE LOCATION AND TOPOGRAPHIC FEATURES
DOCUMENT TITLE	PCB REMEDIATION REPORT
CLIENT	WILLIAMS GAS PIPELINES CENTRAL, INC.
LOCATION	BUFFALO COMPRESSOR STATION HARPER COUNTY, OKLAHOMA

DATE	10/10/02
SCALE	AS NOTED
DESIGNED BY	BEM
APPROVED BY	BEM
DRAWN BY	SKG
PROJECT NUMBER	2203401 T4
FIGURE NUMBER	1

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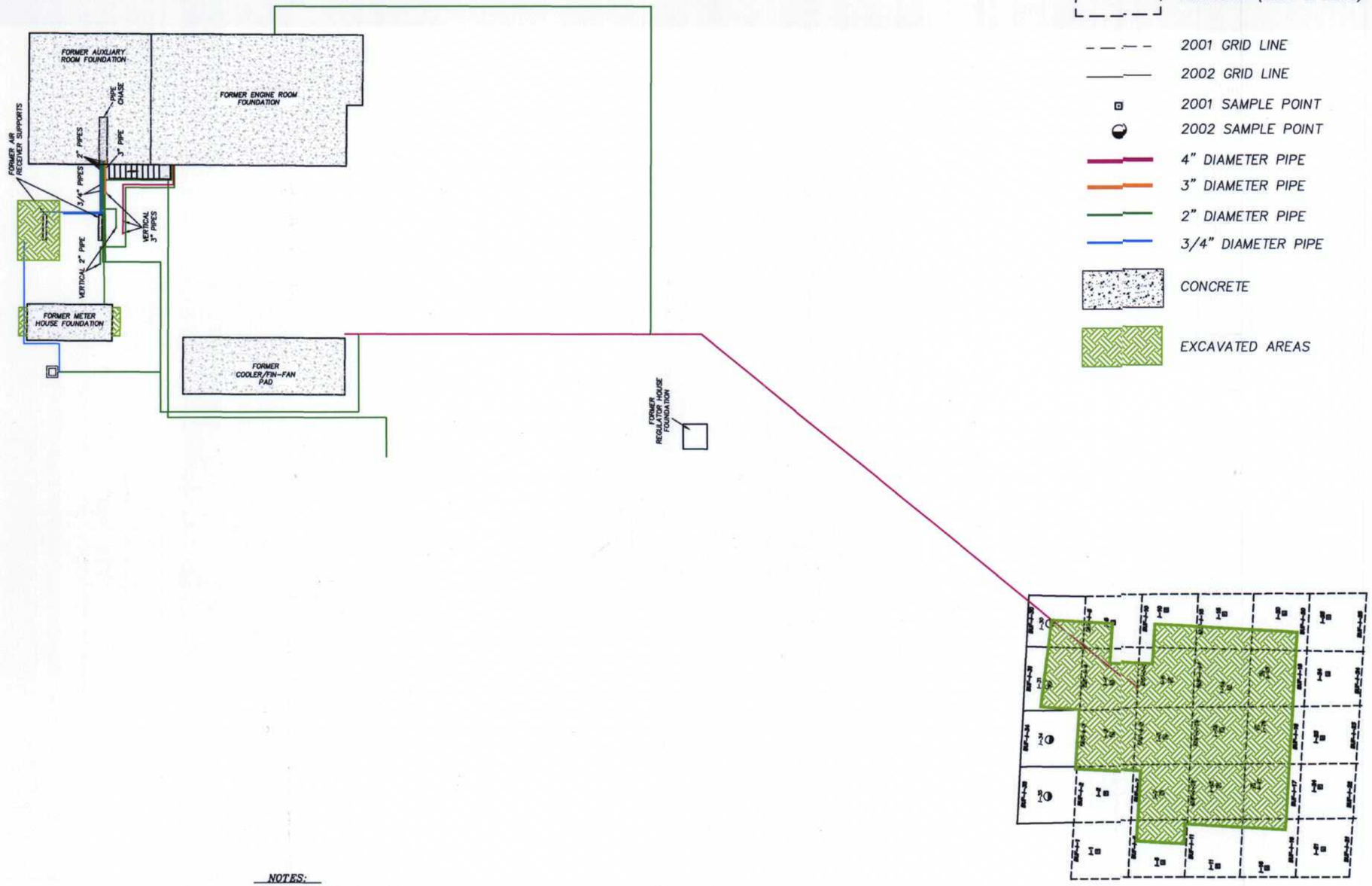

LEGEND

- SAMPLING GRID(S) ESTABLISHED BY TERRACON (2001 & 2002)
- 2001 GRID LINE
- 2002 GRID LINE
- 2001 SAMPLE POINT
- 2002 SAMPLE POINT
- 4" DIAMETER PIPE
- 3" DIAMETER PIPE
- 2" DIAMETER PIPE
- 3/4" DIAMETER PIPE
- CONCRETE
- EXCAVATED AREAS

NOTES:

1) BASE MAP AND IMPOUNDMENT AREA SAMPLING GRID(S) ADAPTED FROM SURVEY BY PRECISION SURVEYING, P.A., 108 WEST MYRTLE, P.O. BOX 701 INDEPENDENCE, KS 67301 DATED 4/1/02

N

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SCALE FEET

P:\USTAH\Env\2002\22034\Cad\FIG2 SITE LAYOUT.dwg on Nov 05, 2002-10:29am

FIGURE TITLE	SITE BASE MAP
DOCUMENT TITLE	PCB REMEDIATION REPORT
CLIENT	WILLIAMS GAS PIPELINES CENTRAL, INC.
LOCATION	BUFFALO COMPRESSOR STATION HARPER COUNTY, OKLAHOMA

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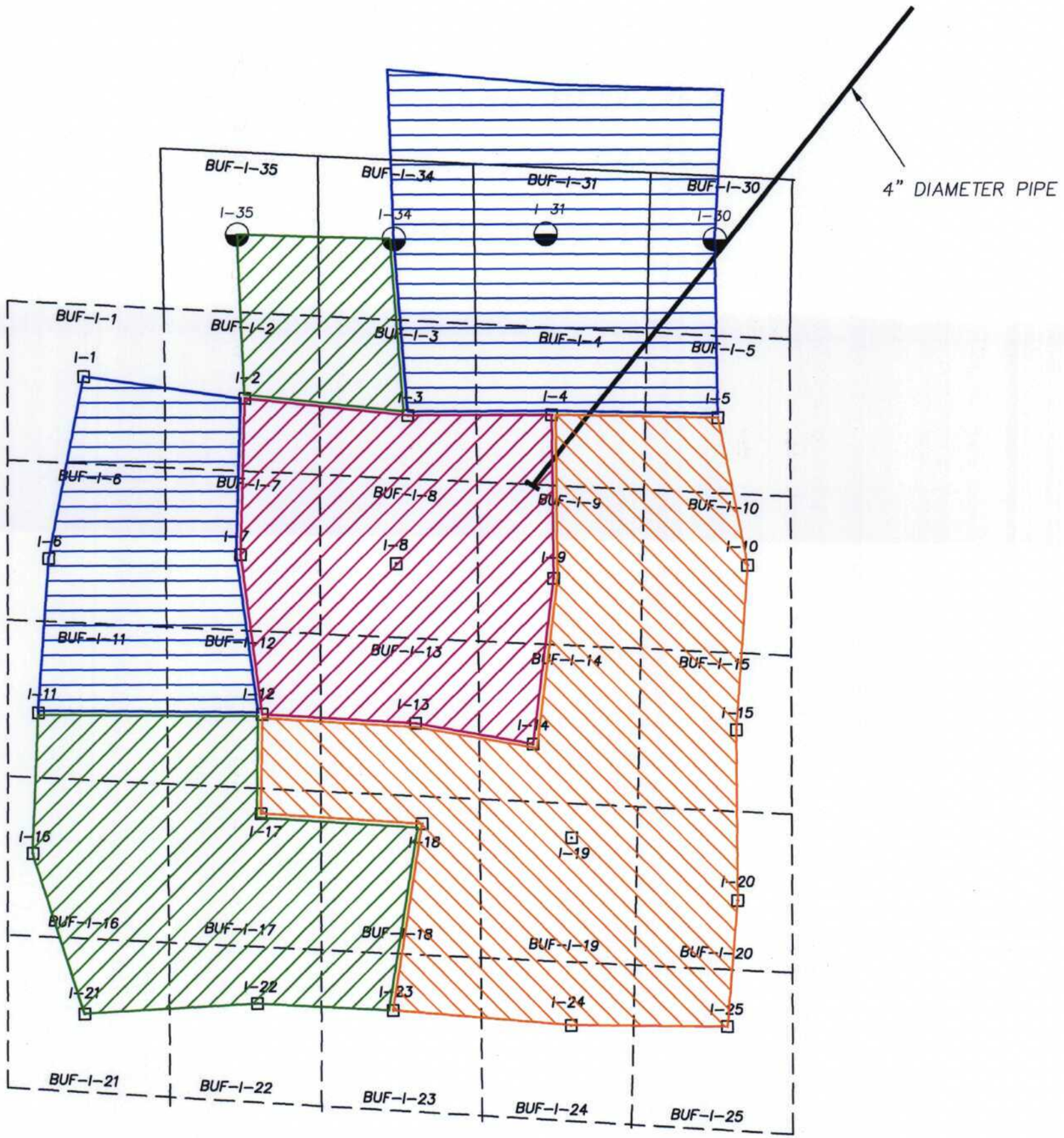
DATE	10/10/02
SCALE	1"=40'
DESIGNED BY	BEM
APPROVED BY	BEM
DRAWN BY	SKG

PROJECT NUMBER
2203401 T4

FIGURE NUMBER
2



LEGEND

- BUF-I-25 — SAMPLING GRID(S) ESTABLISHED BY TERRACON (2001 & 2002)
- 2001 GRID LINE
- 2002 GRID LINE
- 2001 SAMPLE POINT
- 2002 SAMPLE POINT
- LIMIT OF IMPOUNDMENT AREA INDICATED IN WORK PLAN TO BE EXCAVATED TO 4.5 FEET BELOW EXISTING GROUND LEVEL.
- LIMIT OF IMPOUNDMENT AREA INDICATED IN WORK PLAN TO BE EXCAVATED TO 5.5 FEET BELOW EXISTING GROUND LEVEL.
- LIMIT OF IMPOUNDMENT AREA INDICATED IN WORK PLAN TO BE EXCAVATED TO 7.5 FEET BELOW EXISTING GROUND LEVEL.
- LIMIT OF IMPOUNDMENT AREA INDICATED IN WORK PLAN TO BE EXCAVATED TO 8.5 FEET BELOW EXISTING GROUND LEVEL.

NOTES:

1) IMPOUNDMENT AREA SAMPLING GRID(S) ADAPTED FROM SURVEY BY PRECISION SURVEYING, P.A., 108 WEST MYRTLE, P.O. BOX 701, INDEPENDENCE, KS 67301 DATED 4/1/02
2) THIS FIGURE IS A GRAPHIC COMPILATION OF THE PROPOSED EXCAVATION LIMITS PRESENTED IN FIGURES 11 THROUGH 17 OF THE WORK PLAN
3) THE EXCAVATION LIMITS OF SHALLOWER DEPTH INTERVALS PROPOSED IN THE WORK PLAN ARE NOT PRESENTED ON THIS FIGURE BECAUSE THEIR EXCAVATION WOULD BE REQUIRED TO REACH THESE DEEPER DEPTH INTERVALS.

-N-

8 0 8 16
SCALE FEET

FIGURE TITLE	IMPOUNDMENT AREA PROPOSED LIMITS OF EXCAVATION
DOCUMENT TITLE	PCB REMEDIATION REPORT
CLIENT	WILLIAMS GAS PIPELINES CENTRAL, INC.
LOCATION	BUFFALO COMPRESSOR STATION HARPER COUNTY, OKLAHOMA

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SCALE	1"=16'
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APPROVED BY	BEM
DRAWN BY	SKG

PROJECT NUMBER
2203401 T4

FIGURE NUMBER
3

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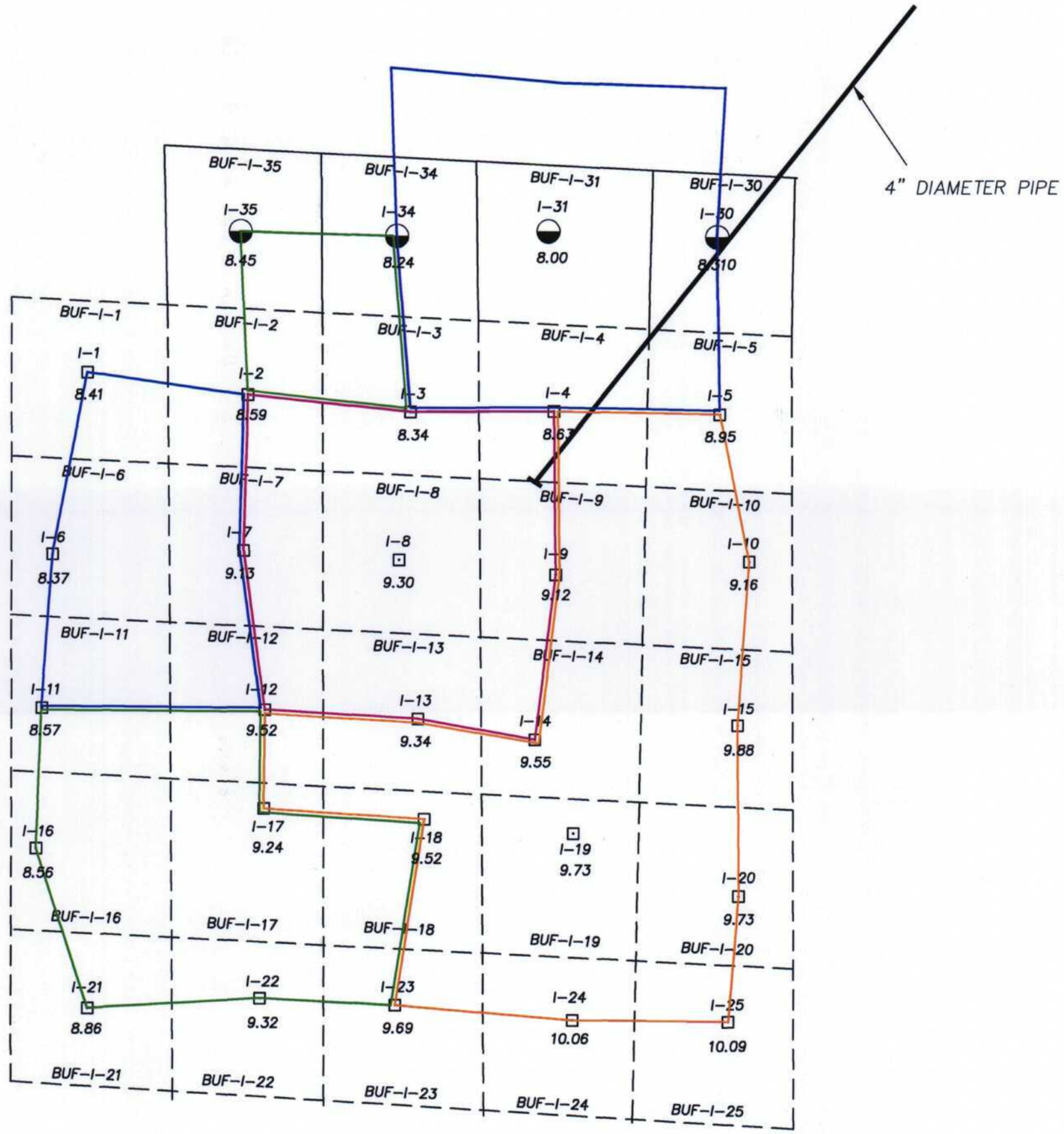

LEGEND

- BUF-I-5 — SAMPLING GRID(S) ESTABLISHED BY TERRACON (2001 & 2002)
- 2001 GRID LINE
- 2002 GRID LINE
- I-5 / 8.95 — 2001 SAMPLE POINT AND PRE-EXCAVATION GROUND ELEVATION
- I-30 / 8.310 — 2002 SAMPLE POINT AND PRE-EXCAVATION GROUND ELEVATION
- LIMIT OF IMPOUNDMENT AREA INDICATED IN WORK PLAN TO BE EXCAVATED TO 4.5 FEET BELOW EXISTING GROUND LEVEL.
- LIMIT OF IMPOUNDMENT AREA INDICATED IN WORK PLAN TO BE EXCAVATED TO 5.5 FEET BELOW EXISTING GROUND LEVEL.
- LIMIT OF IMPOUNDMENT AREA INDICATED IN WORK PLAN TO BE EXCAVATED TO 7.5 FEET BELOW EXISTING GROUND LEVEL.
- LIMIT OF IMPOUNDMENT AREA INDICATED IN WORK PLAN TO BE EXCAVATED TO 8.5 FEET BELOW EXISTING GROUND LEVEL.

NOTES:

1) IMPOUNDMENT AREA SAMPLING GRID(S) ADAPTED FROM SURVEY BY PRECISION SURVEYING, P.A., 108 WEST MYRTLE, P.O. BOX 701, INDEPENDENCE, KS 67301 DATED 4/1/02.

2) PRE-EXCAVATION ELEVATION BASED ON DIAMOND'S TEMPORARY BENCHMARK.

N

8 0 8 16
SCALE FEET

FIGURE TITLE	IMPOUNDMENT AREA PRE-EXCAVATION SURVEY DATA
DOCUMENT TITLE	PCB REMEDIATION REPORT
CLIENT	WILLIAMS GAS PIPELINES CENTRAL, INC.
LOCATION	BUFFALO COMPRESSOR STATION HARPER COUNTY, OKLAHOMA

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2488 E. 81st Street, Suite 610
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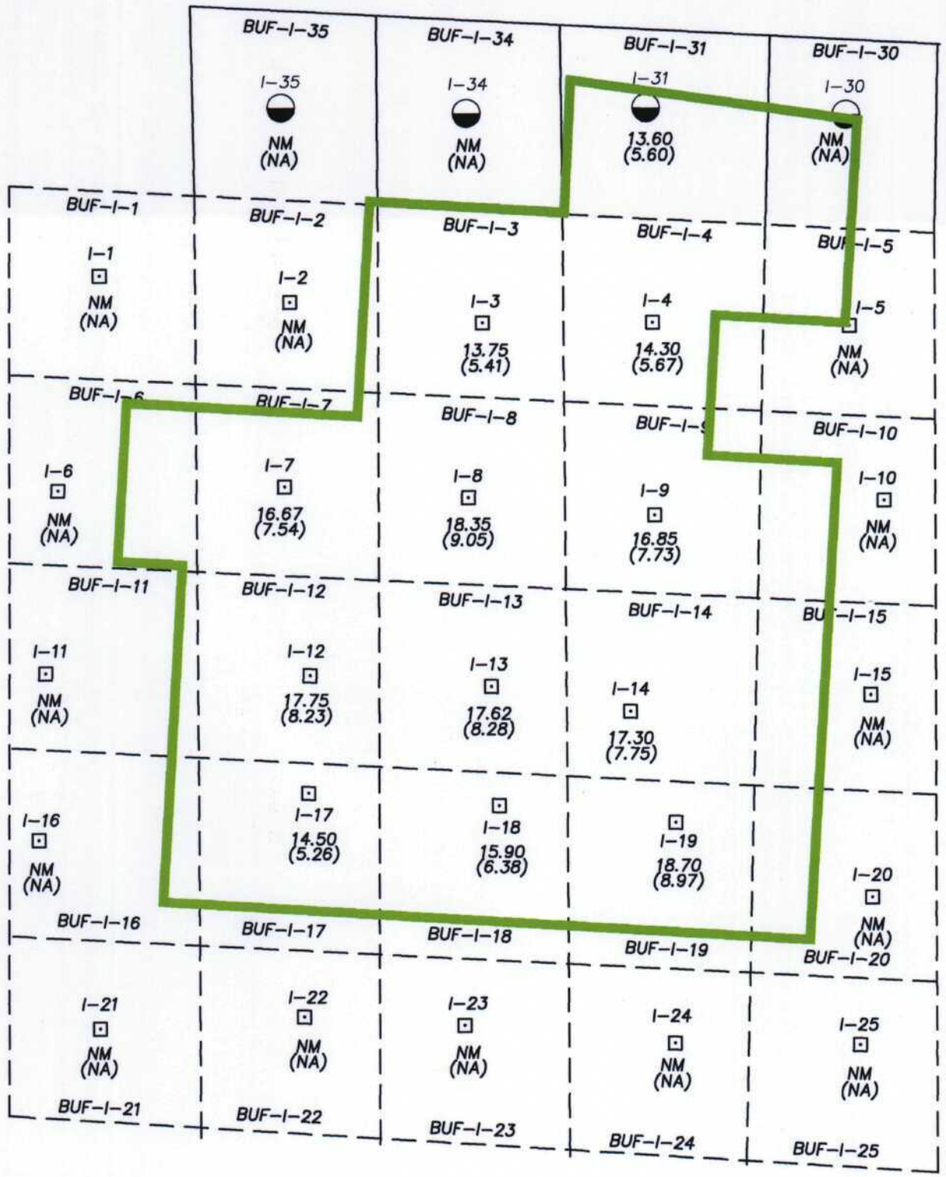
WS Atkins

DATE	10/10/02
SCALE	1"=16'
DESIGNED BY	BEM
APPROVED BY	BEM
DRAWN BY	SKG

PROJECT NUMBER
2203401 T4

FIGURE NUMBER
4

P:\USTAH\Env\2002\22034\Cad\FIG4 PRE EXCAV.dwg on Nov 05, 2002-10:11am



LEGEND

BUF-I-5	SAMPLING GRID(S) ESTABLISHED BY TERRACON (2001 & 2002)
	2001 GRID LINE
	2002 GRID LINE
I-4 14.30 (5.67)	2001 SAMPLE POINT, POST-EXCAVATION GROUND ELEVATION, AND TOTAL CUT SURVEYED
I-31 13.60 (5.60)	2002 SAMPLE POINT, POST-EXCAVATION GROUND ELEVATION, AND TOTAL CUT SURVEYED
NM (NA)	NOT MEASURED (NOT APPLICABLE)
	HORIZANTAL LIMITS OF IMPOUNDMENT AREA EXCAVATION

NOTES:

1) IMPOUNDMENT AREA SAMPLING GRID(S) ADAPTED FROM SURVEY BY PRECISION SURVEYING, P.A., 108 WEST MYRTLE, P.O. BOX 701, INDEPENDENCE, KS 67301 DATED 4/1/02.

2) PRE-EXCAVATION ELEVATION BASED ON DIAMOND'S TEMPORARY BENCHMARK.

N

8 0 8 16
SCALE FEET

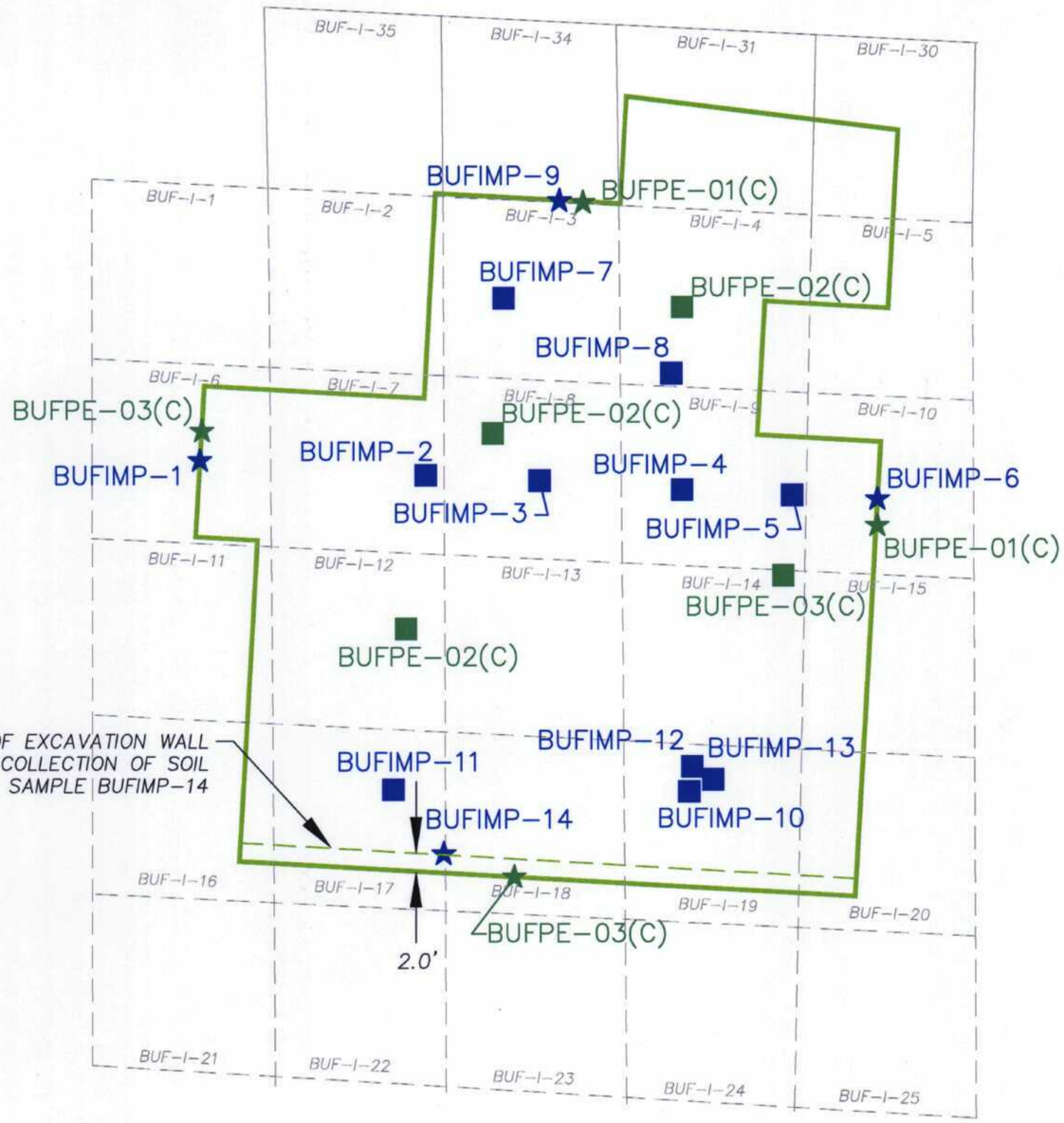
FIGURE TITLE	IMPOUNDMENT AREA POST-EXCAVATION SURVEY DATA
DOCUMENT TITLE	PCB REMEDIATION REPORT
CLIENT	WILLIAMS GAS PIPELIES CENTRAL, INC.
LOCATION	BUFFALO COMPRESSOR STATION HARPER COUNTY, OKLAHOMA

Atkins Benham
ENVIRONMENTAL DIVISION
2488 E. 81st Street, Suite 610
Tulsa, Oklahoma 74137
(918) 496-0059
3700 W. Robinson, Suite 200
Norman, Oklahoma 73072
(405) 321-3895
2225 E. Randol Mill Rd., Suite 315
Arlington, Texas 76011
(817) 640-6407
11200 Richmond Ave., Suite 300
Houston, Texas 77082
(281) 496-1073
www.atkinsbenham.com
a member of the WS Atkins group of companies
WS Atkins

DATE	10/10/02
SCALE	1"=16'
DESIGNED BY	BEM
APPROVED BY	BEM
DRAWN BY	SKG

PROJECT NUMBER
2203401 T4
FIGURE NUMBER
5

P:\USTAH\Env\2002\22034\Cad\FIG5 POST EXCAV.dwg on Nov 05, 2002-10:11am



LEGEND

BUF-I-5	SAMPLING GRID(S) ESTABLISHED BY TERRACON (2001 & 2002)
	2001 GRID LINE
	2002 GRID LINE
BUFIMP-1 ★	LOCATION OF SOIL GRAB SAMPLE COLLECTED FROM WALL OF EXCAVATION FOR MOBILE GC FIELD SCREENING
BUFIMP-2 ■	LOCATION OF SOIL GRAB SAMPLE COLLECTED FROM FLOOR OF EXCAVATION FOR MOBILE GC FIELD SCREENING
BUFPE-03(C) ★	LOCATION OF SOIL GRAB SAMPLE COLLECTED FROM WALL OF EXCAVATION COMPOSITED TO FORM A POST-EXCAVATION CONFIRMATION SOIL SAMPLE
BUFPE-02(C) ■	LOCATION OF SOIL GRAB SAMPLE COLLECTED FROM FLOOR OF EXCAVATION COMPOSITED TO FORM A POST-EXCAVATION CONFIRMATION SOIL SAMPLE

NOTES:

1) IMPOUNDMENT AREA SAMPLING GRID(S) ADAPTED FROM SURVEY BY PRECISION SURVEYING, P.A., 108 WEST MYRTLE, P.O. BOX 701 INDEPENDENCE, KS 67301 DATED 4/1/02

-N-

8 0 8 16
SCALE FEET

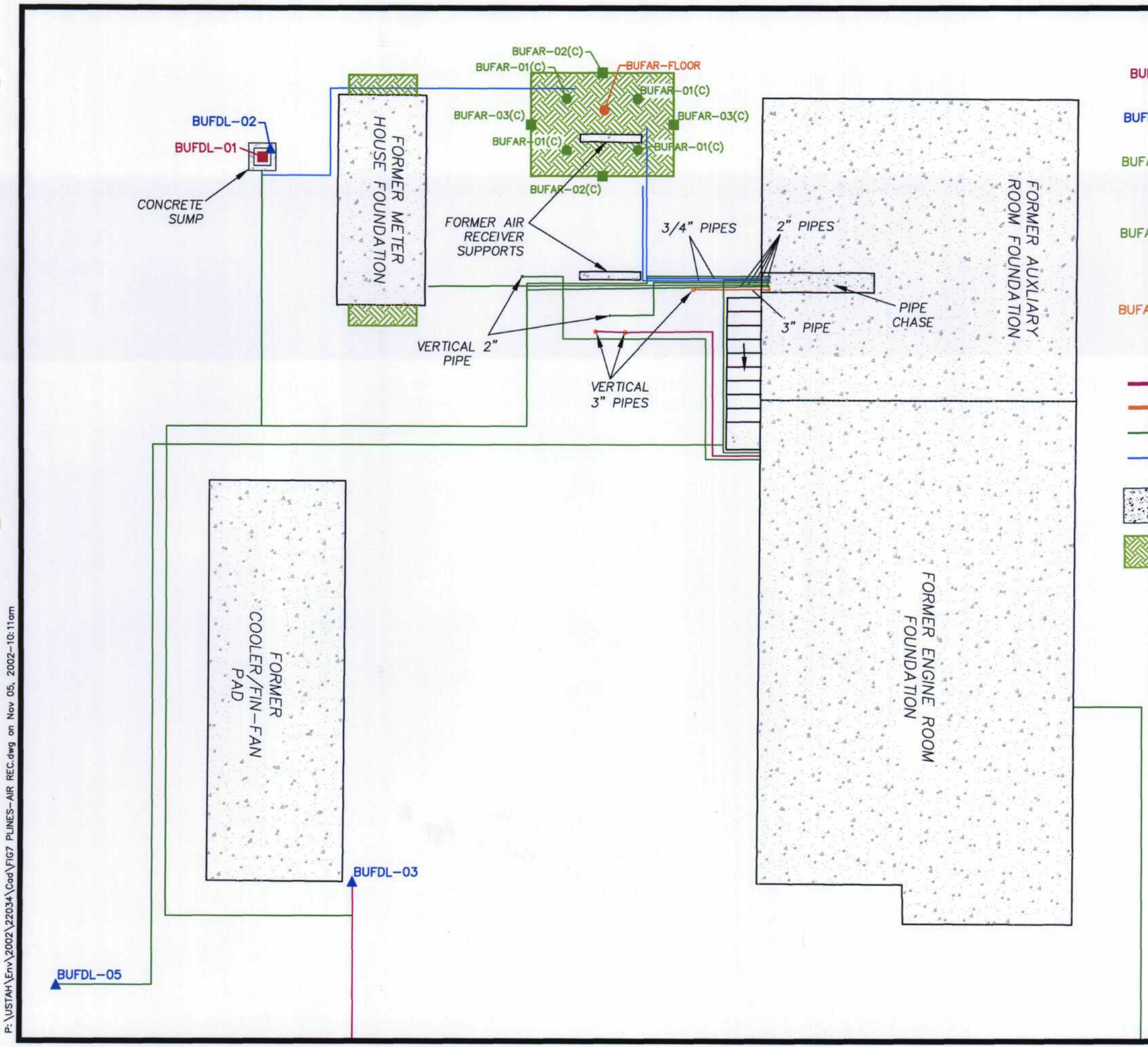
FIGURE TITLE	IMPOUNDMENT AREA SOIL SAMPLE LOCATIONS
DOCUMENT TITLE	PCB REMEDIATION REPORT
CLIENT	WILLIAMS GAS PIPELINES CENTRAL, INC.
LOCATION	BUFFALO COMPRESSOR STATION HARPER COUNTY, OKLAHOMA

Atkins Benham
ENVIRONMENTAL DIVISION
2488 E. 81st Street, Suite 610
Tulsa, Oklahoma 74137
(918) 496-0059
3700 W. Robinson, Suite 200
Norman, Oklahoma 73072
(405) 321-3895
2225 E. Randol Mill Rd., Suite 315
Arlington, Texas 76011
(817) 640-6407
11200 Richmond Ave., Suite 300
Houston, Texas 77082
(281) 496-1073
www.atkinsbenham.com
a member of the WS Atkins group of companies
WS Atkins

DATE	10/10/02
SCALE	1"=16'
DESIGNED BY	BEM
APPROVED BY	BEM
DRAWN BY	SKG

PROJECT NUMBER
2203401 T4
FIGURE NUMBER
6

P:\USTAH\Env\2002\22034\Cad\FIG6 IMP SAMPLE LOC.dwg on Nov 05, 2002-10:11am



LEGEND

BUFDL-01 — SEDIMENT SAMPLE LOCATION

BUFDL-02 — WIPE SAMPLE LOCATION

BUFAR-01(C) — LOCATION OF SOIL GRAB SAMPLE COLLECTED FROM FLOOR OF EXCAVATION COMPOSITED TO FORM A POST-EXCAVATION CONFIRMATION SOIL SAMPLE

BUFAR-02(C) — LOCATION OF SOIL GRAB SAMPLE COLLECTED FROM WALL OF EXCAVATION COMPOSITED TO FORM A POST-EXCAVATION CONFIRMATION SOIL SAMPLE

BUFAR-FLOOR — LOCATION OF SOIL GRAB SAMPLE COLLECTED FROM FLOOR OF EXCAVATION FOR MOBILE GC FIELD SCREENING

4" DIAMETER PIPE

3" DIAMETER PIPE

2" DIAMETER PIPE

3/4" DIAMETER PIPE

CONCRETE

EXCAVATED AREAS

NOTES:

1) BASE MAP ADAPTED FROM SURVEY BY PRECISION SURVEYING, P.A., 108 WEST MYRTLE, P.O. BOX 701 INDEPENDENCE, KS 67301 DATED 4/1/02

N

7.5 0 7.5 15
SCALE FEET

FIGURE TITLE	AIR/DRAIN/LINE LAYOUT AND AIR RECEIVER AREA
DOCUMENT TITLE	PCB REMEDIATION REPORT
CLIENT	WILLIAMS GAS PIPELINES CENTRAL, INC.
LOCATION	BUFFALO COMPRESSOR STATION HARPER COUNTY, OKLAHOMA

Atkins Benham
ENVIRONMENTAL DIVISION
2488 E. 81st Street, Suite 610
Tulsa, Oklahoma 74137
(918) 496-0059
3700 W. Robinson, Suite 200
Norman, Oklahoma 73072
(405) 321-3895
2225 E. Randol Mill Rd., Suite 315
Arlington, Texas 76011
(817) 640-6407
11200 Richmond Ave., Suite 300
Houston, Texas 77082
(281) 496-1073
www.atkinsbenham.com
a member of the WS Atkins group of companies
WS Atkins

DATE	10/10/02
SCALE	1"=15'
DESIGNED BY	BEM
APPROVED BY	BEM
DRAWN BY	SKG

PROJECT NUMBER
2203401 T4

FIGURE NUMBER
7

P:\USTAH\Env\2002\22034\Cad\FIG7 PLINES-AIR REC.dwg on Nov 05, 2002-10:11am

APPENDICES

APPENDIX A

SITE REMEDIATION PHOTOGRAPHS

Photo No 1: Diamond surveying in Impoundment Area prior to excavation. Tall stakes are corners of the former Terracon sample grid and short stakes are sample points. View looking West.

Photo No 2: Impoundment Area following excavation. Construction stakes represent surveyed Terracon sample points. Pink flagging represents mobile GC field screening soil sample locations and blue flagging represents post-excavation confirmation soil sample locations. View looking North.

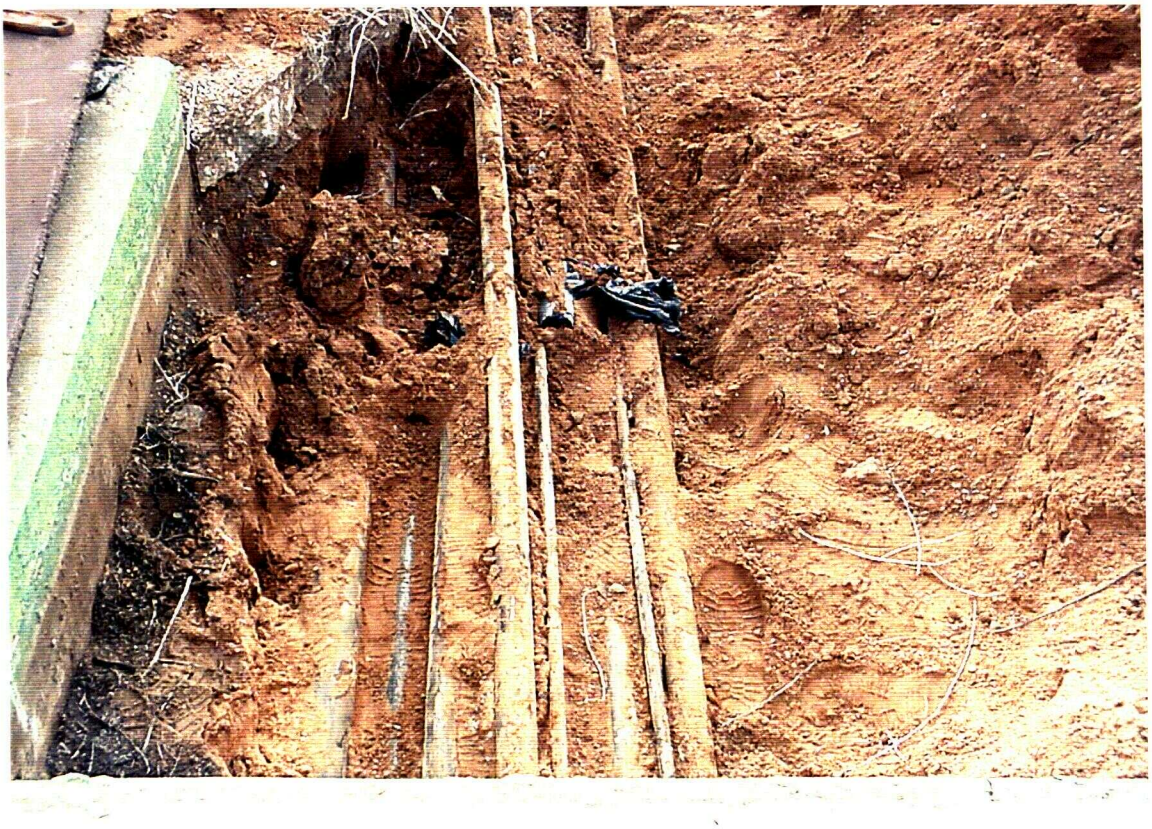


Photo No 3: Air and Drain Line piping exiting pipe chase on West side of former Auxiliary Room.

Photo No 4: Exposed Air and Drain Line piping prior to removal. View looking West.

Photo No 5: Concrete Sump prior to excavation and removal. Note former Meter House foundation in background. View looking East.

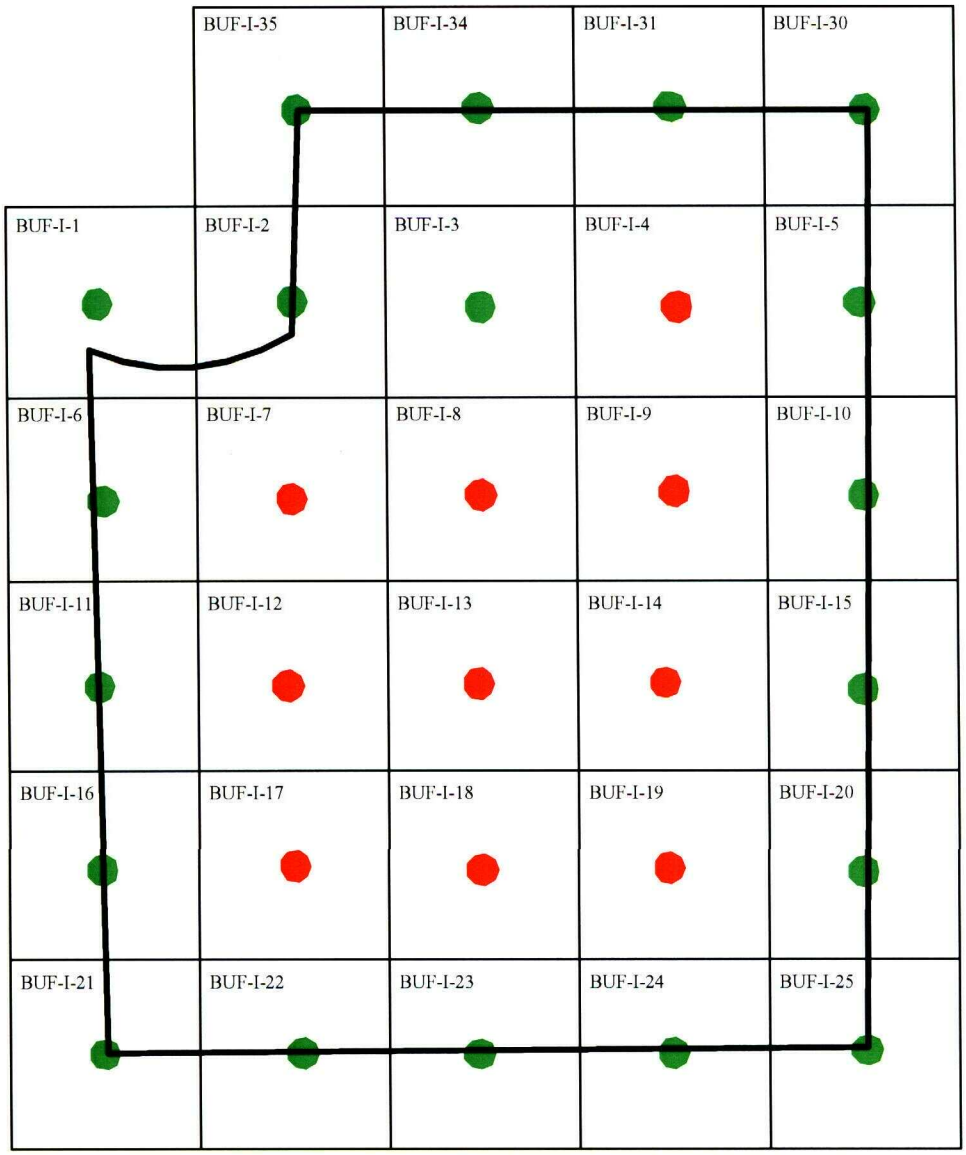
Photo No 6: Concrete Sump following excavation. View looking Southeast.

Photo No 7: Air Receiver Area during excavation. Note northern-most air receiver support in foreground. View looking Northwest.

Photo No 8: Air Receiver Area following excavation. Orange flagging represents post-excavation confirmation soil sample locations. View looking West.

APPENDIX B

WORK PLAN FIGURES 11 THROUGH 17



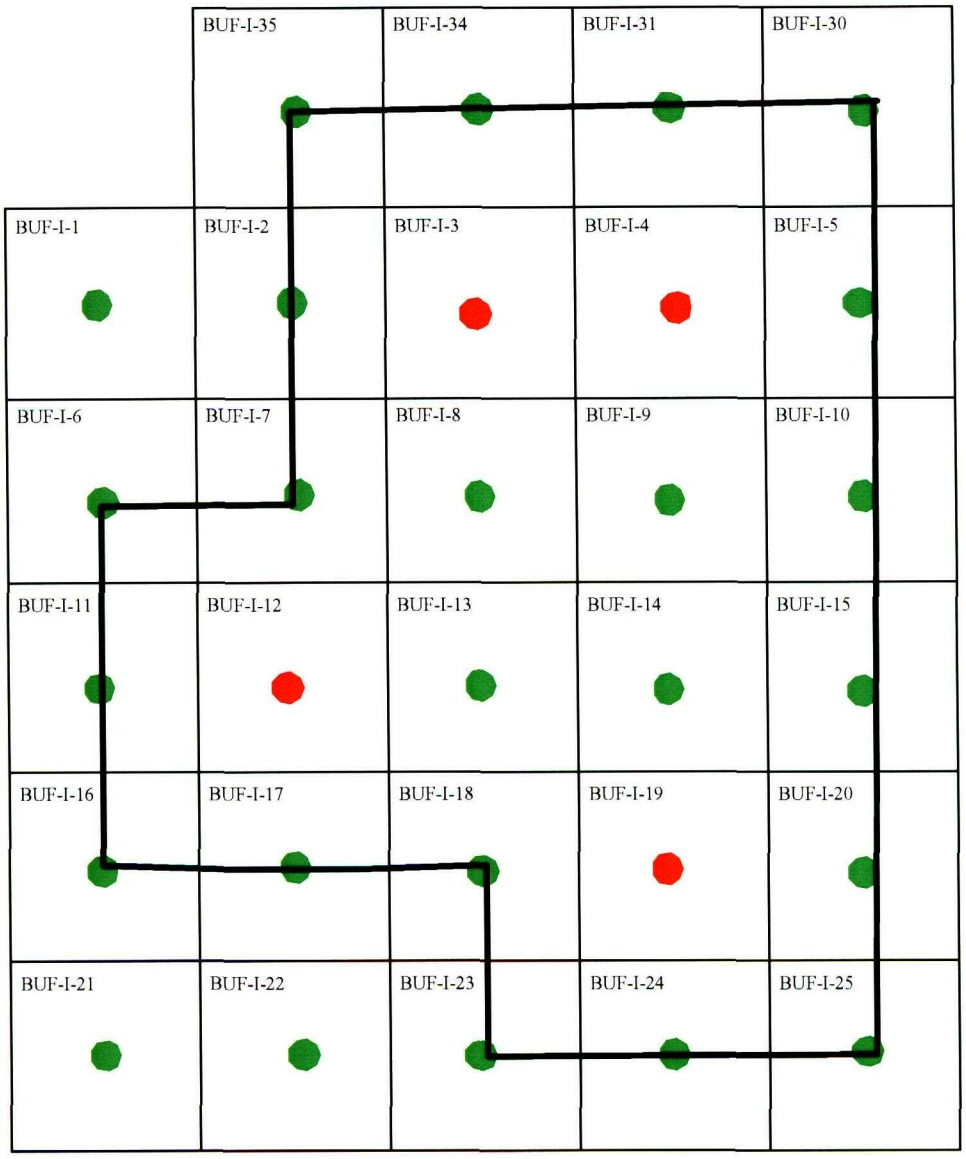
Greater than 1 ppm

Less than 1 ppm

N

IMPOUNDMENT AREA GRID
BUFFALO COMPRESSOR STATION
WILLIAMS GAS PIPELINE CENTRAL, INC.
BUFFALO, OKLAHOMA

Project Mngr:	Figure 11 - Minimum Excavation at A -24"-30"	Project No.
Designed By:		Scale:
Checked By:		Date:
Approved By:		Drawn By:
File Name:		Figure No.



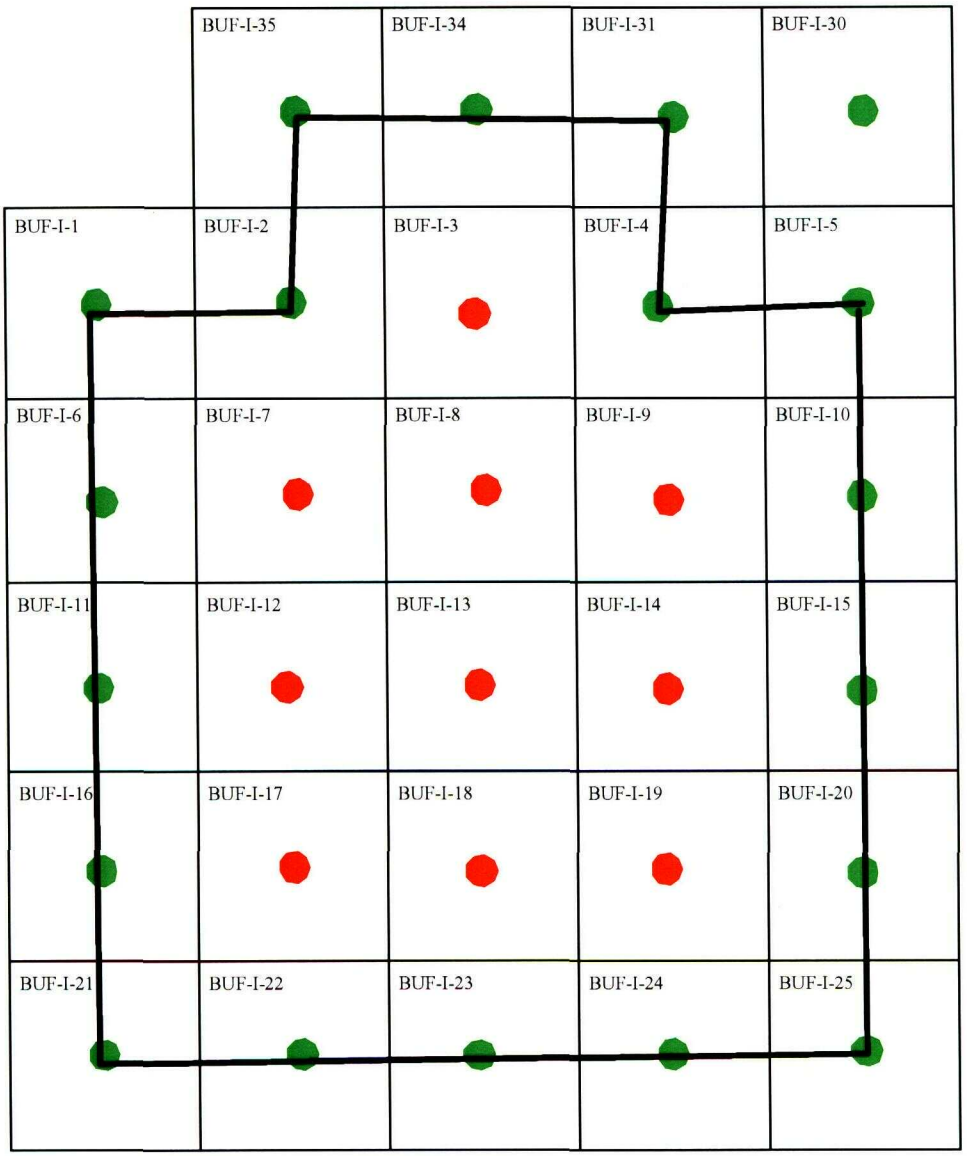
Greater than 1 ppm

Less than 1 ppm

N

IMPOUNDMENT AREA GRID
BUFFALO COMPRESSOR STATION
WILLIAMS GAS PIPELINE CENTRAL, INC.
BUFFALO, OKLAHOMA

Project Mngr:	Figure 12 - Minimum Excavation at B - 36"-42"	Project No.
Designed By:		Scale:
Checked By:		Date:
Approved By:		Drawn By:
File Name:	FIGURE3.DWG	Figure No.



Greater than 1 ppm

Less than 1 ppm

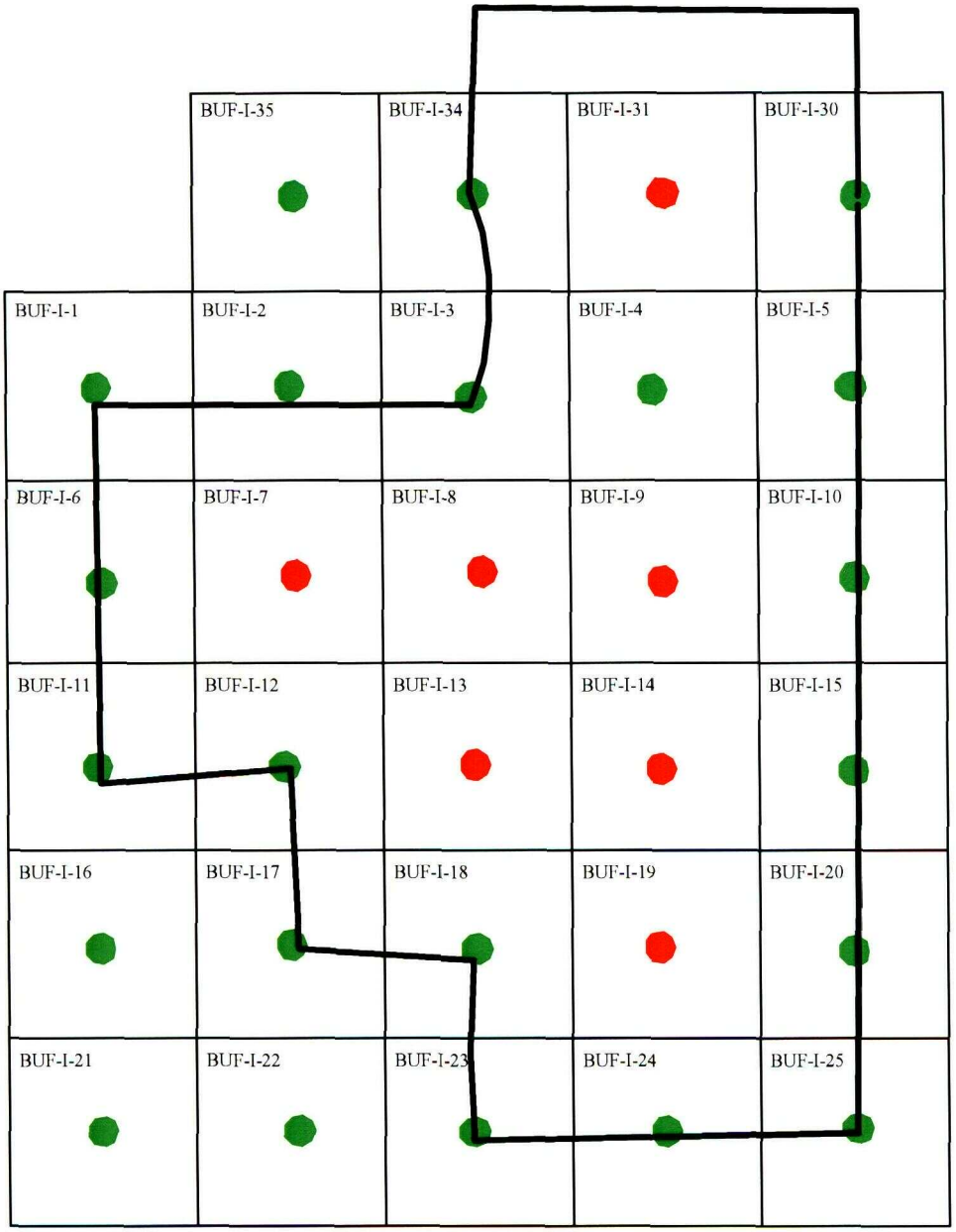
N

J

R1 TKW 01-31-01

IMPOUNDMENT AREA GRID
BUFFALO COMPRESSOR STATION
WILLIAMS GAS PIPELINE CENTRAL, INC.
BUFFALO, OKLAHOMA

Project Mngr:	Figure 13 - Minimum Excavation at C -48"-54"	Project No.
Designed By:		Scale:
Checked By:		Date:
Approved By:		Drawn By:
File Name:		Figure No.



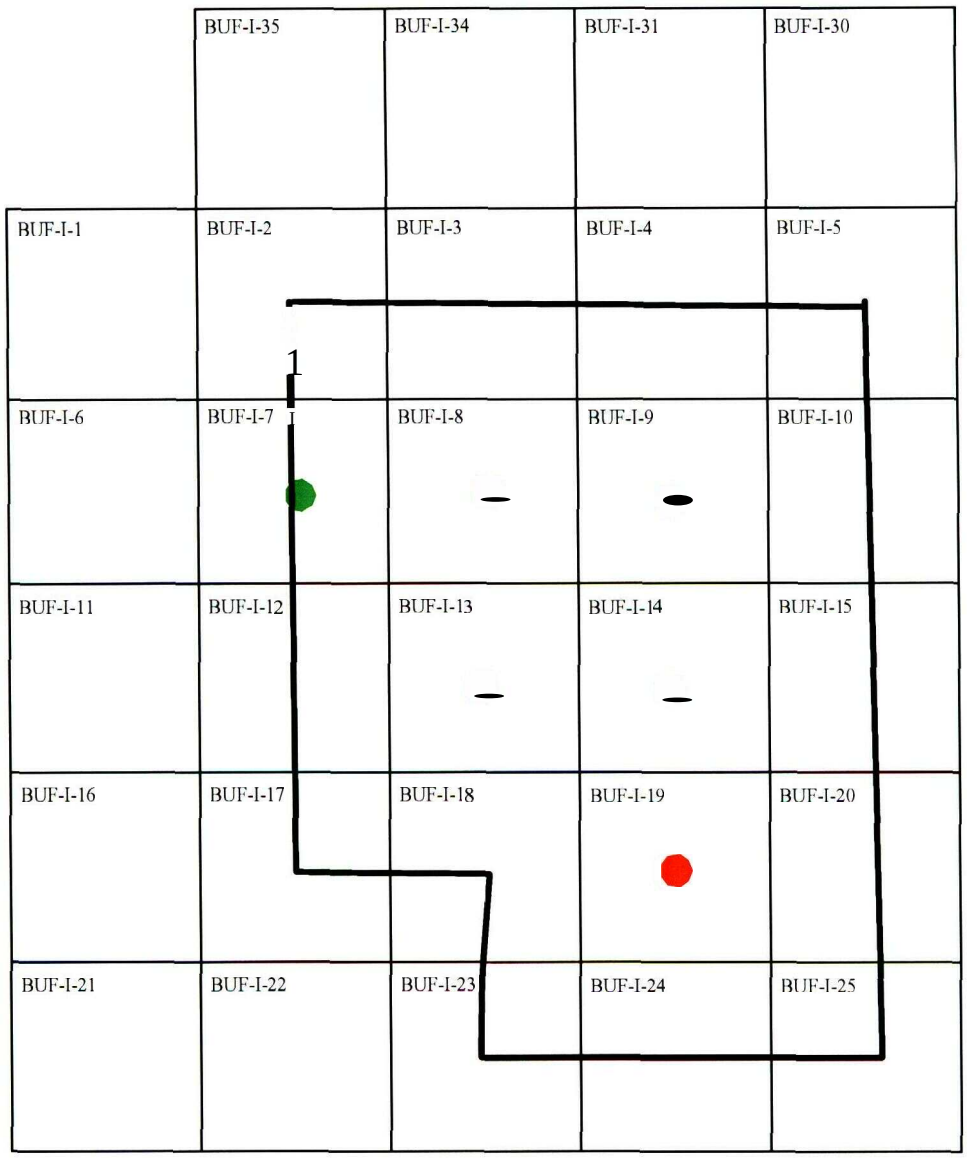
Greater than 1 ppm

Less than 1 ppm

N

IMPOUNDMENT AREA GRID
BUFFALO COMPRESSOR STATION
WILLIAMS GAS PIPELINE CENTRAL, INC.
BUFFALO, OKLAHOMA

Project Mngr:	Figure 14 - Minimum Excavation at D - 60"-66"	Project No.
Designed By:		Scale:
Checked By:		Date:
Approved By:		Drawn By:
File Name:		Figure No.



Greater than 1 ppm

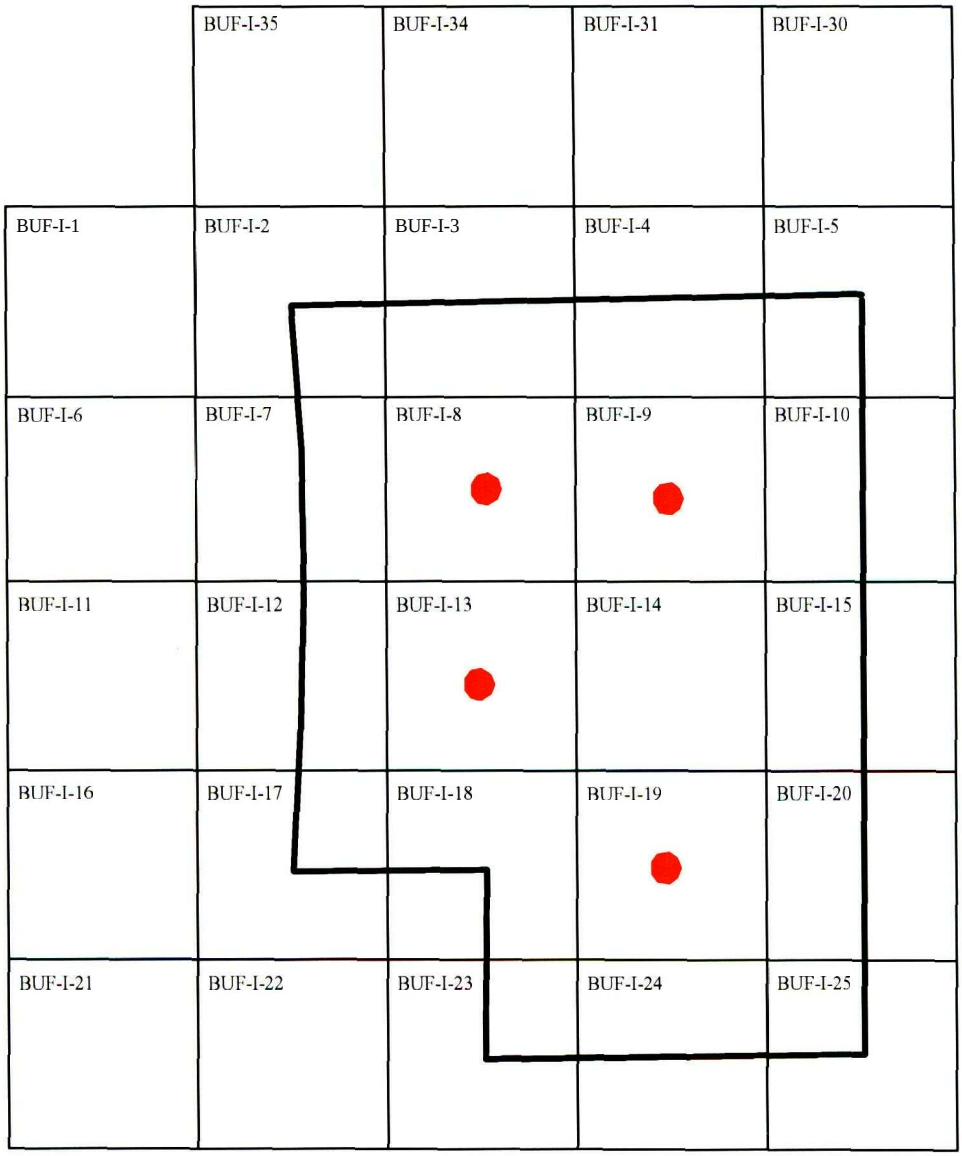
Less than 1 ppm

N

R1 TKW 01-31-01

IMPOUNDMENT AREA GRID
BUFFALO COMPRESSOR STATION
WILLIAMS GAS PIPELINE CENTRAL, INC.
BUFFALO, OKLAHOMA

Project Mngr:	Figure 15 - Minimum Excavation at E - 72"-78"	Project No.
Designed By:		Scale:
Checked By:		Date:
Approved By:		Drawn By:
File Name:		Figure No.



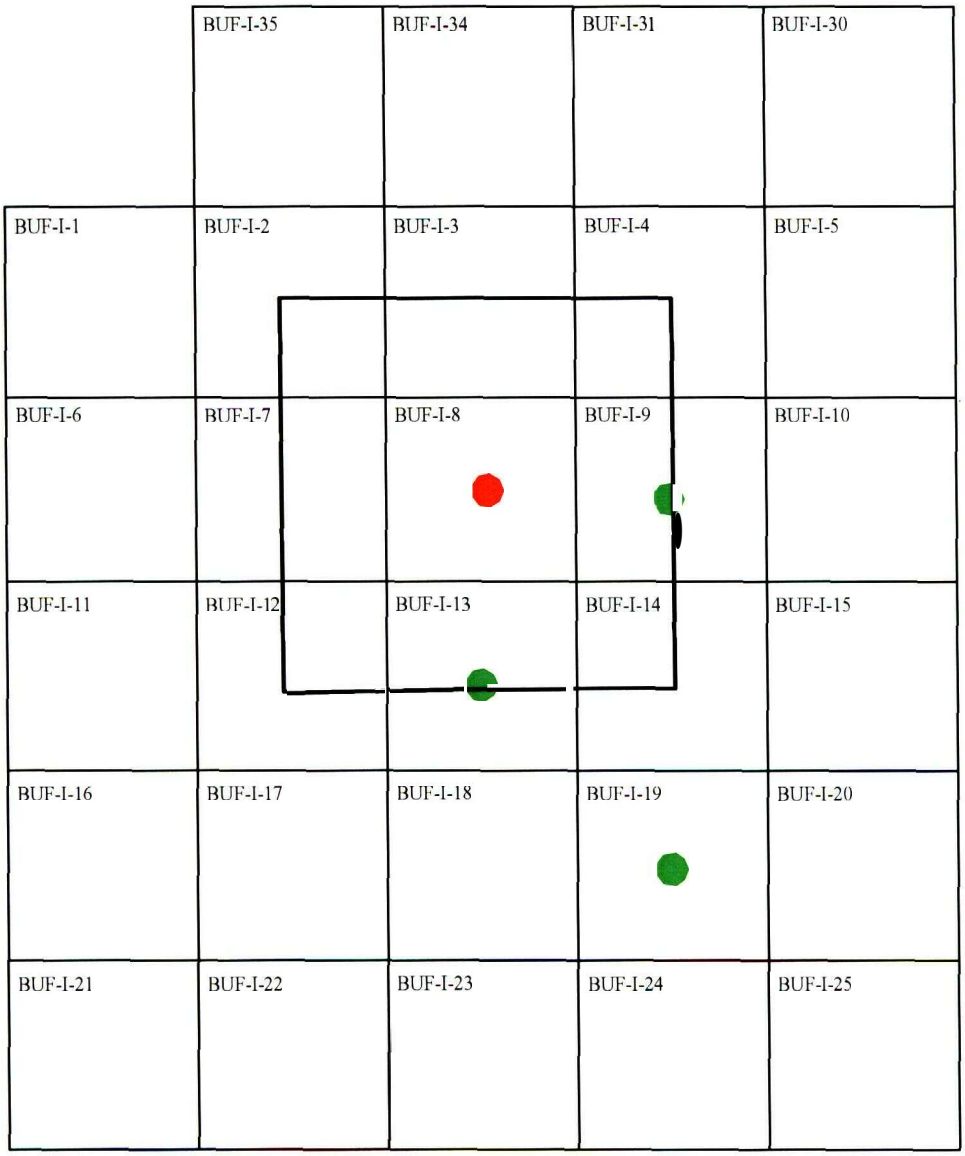
Greater than 1 ppm

Less than 1 ppm

N

IMPOUNDMENT AREA GRID
BUFFALO COMPRESSOR STATION
WILLIAMS GAS PIPELINE CENTRAL, INC.
BUFFALO, OKLAHOMA

Project Mngr:	Figure 16 - Minimum Excavation at F - 84"-90"	Project No.
Designed By:		Scale:
Checked By:		Date:
Approved By:		Drawn By:
File Name:		Figure No.



Greater than 1 ppm

Less than 1 ppm

N

IMPOUNDMENT AREA GRID
BUFFALO COMPRESSOR STATION
WILLIAMS GAS PIPELINE CENTRAL. INC.
BUFFALO, OKLAHOMA

Project Mngr:	Figure 17 - Minimum Excavation at G - 96"-102"	Project No.
Designed By:		Scale:
Checked By:		Date:
Approved By:		Drawn By:
File Name:		Figure No.

APPENDIX C

DIAMOND SURVEY DATA

SAMPLE POINT MEASUREMENTS
PCB REMEDIATION
BUFFALO COMPRESSOR STATION
HARPER COUNTY, OKLAHOMA

SAMPLE POINT	WEST	EAST	BEGINNING ELEVATION	ENDING ELEVATION	EXCAVATION CUT
BUF-I-1	69.5	58	8.41	NM	NA
BUF-I-2	90.5	60	8.59	NM	NA
BUF-I-3	111	60.5	8.34	13.75	5.41
BUF-I-4	129.5	58.5	8.63	14.3	5.67
BUF-I-5	150.1	56.5	8.95	NM	NA
BUF-I-6	66	87.7	8.37	NM	NA
BUF-I-7	90.2	79.5	9.13	16.67	7.54
BUF-I-8	110.4	79.5	9.3	18.35	9.05
BUF-I-9	130.3	79	9.12	16.85	7.73
BUF-I-10	155	74	9.16	NM	NA
BUF-I-11	64	101	8.57	NM	NA
BUF-I-12	92	100	9.52	17.75	8.23
BUF-I-13	111.8	99.5	9.34	17.62	8.28
BUF-I-14	126.4	99.8	9.55	17.3	7.75
BUF-I-15	152	95.5	9.88	NM	NA
BUF-I-16	63.5	119	8.56	NM	NA
BUF-I-17	93.5	112.5	9.24	14.5	5.26
BUF-I-18	113.1	112	9.52	15.9	6.38
BUF-I-19	135.1	111.8	9.73	18.7	8.97
BUF-I-20	155.1	118.9.73	9.73	NM	NA
BUF-I-21	70	138.7	8.86	NM	NA
BUF-I-22	92.2	136.5	9.32	NM	NA
BUF-I-23	109.1	136	9.69	NM	NA
BUF-I-24	132.2	135.5	10.06	NM	NA
BUF-I-25	152.1	133.5	10.09	NM	NA
BUF-I-30	150	34	8.3	NM	NA
BUF-I-31	128.5	35.5	8	13.6	5.6
BUF-I-34	109	38	8.24	NM	NA
BUF-I-35	89	39	8.45	NM	NA

APPENDIX D

AQUATERRA MOBIL GC SCREENING DATA

AQUATERRA
ENVIRONMENTAL SOLUTIONS, INC.

FACSIMILE

To:	Bruce McKenzie	**From:**	Tony Poulter
Fax:	918-496-0132	**Pages:**	3
Phone:	918-496-0059	**Date:**	9/20/2002
Re:	WGPC – Buffalo, OK Field Screening	**CC:**	

☐ **Urgent** X **For Review** ☐ **Please Comment** ☐ **Please Reply** ☐ **Please Recycle**

- **Comments:**

Bruce,
Here are the field screening results for the Buffalo, OK site. Please call with questions (913) 681-0030.

Thanks,

Tony Poulter
Project Manager

Aquaterra Environmental Solutions, Inc. *P.O. Box 26441* *Overland Park, Kansas 66225-6441*

09/20/2002 07:46 AQUATERRA ENV. → 19184960132 NO.433 D001

Client: Aquaterra	Analytical Data Sheet	Analyst: Robbie W.
Site Rep.: Tony Poulter		Date: 08/22/02
Site Name: WGPC	Page 1 of 2	
Site Loc.: Buffalo, OK	All Results in PPM	

#	ID	Sample Type	IN.V.	PCB'S	Comments
1	System Blank	--	--	N/D	
2	PCB Standard	--	2ul	1,122,243=10PPM	
3	BUFF-I-6	SS	2ul	N/D	
4	BUFF-I-9	SS	2ul	N/D	
5	BUFF-I-10	SS	2ul	16.33	
6	BUFF-I-5	SS	2ul	N/D	
7	BUFF-I-4	SS	2ul	N/D	
8	BUFF-I-3	SS	2ul	- 0.36	
9	BUFF-I-2	SS	2ul	N/D	
10	BUFF-I-8	SS	2ul	N/D	
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					

N/D=Non Detect	WS=Groundwater Sample	CC=Calibration Check
DF=Dilution Factor	SS=Soil Sample	SB=System Blank
IN.V.=Injection Volume	VS=Vapor Sample	BCCLL=Below Calibration Curve Lower Limits

Comments:

PSA Environmental
216 N. Main "Unit C"
Lee's Summit, MO. 64063
Phone: 1-816-525-7483
Fax: 1-816-525-7103

Client: Aquaterra	Analytical Data Sheet	Analyst: Robbie W.
Site Rep.: Tony Poulter		Date: 08/23/02
Site Name: WGPC	Page 2 of 2	
Site Loc.: Buffalo, OK	All Results in PPM	

#	ID	Sample Type	IN.V.	PCB'S	Comments
1	System Blank	--	--	N/D	
2	PCB Standard	--	2ul	912,751=10PPM	
3	BUFF-I-7	SS	2ul	N/D	
4	BUFF-I-1	SS	2ul	N/D	
5	AR-1	SS	2ul	N/D	
6	BUFF-I-11	SS	2ul	7.00	
7	BUFF-I-13	SS	2ul	N/D	
8	BUFF-I-12	SS	2ul	1.00	
9	BUFF-PE-01	SS	2ul	N/D	
10	BUFF-I-14	SS	2ul	28.67	
11	BUFF-PE-02	SS	2ul	0.18	
12	BUFF-PE-03	SS	2ul	N/D	
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					

N/D=Non Detect	WS=Groundwater Sample	CC=Calibration Check	
DF=Dilution Factor	SS=Soil Sample	SB=System Blank	
IN.V.=Injection Volume	VS=Vapor Sample	BCCLL=Below Calibration Curve Lower Limits	

Comments:

PSA Environmental
216 N. Main "Unit C"
Lee's Summit, MO. 64063
Phone: 1-816-525-7483
Fax: 1-816-525-7103

APPENDIX E

LABORATORY ANALYTICAL REPORTS AND

CHAIN-OF-CUSTODY DOCUMENTATION

Environmental Science Corporation

Mount Juliet, TN

For: Williams Gas & Pipe
Buffalo

Project #: 2203401

Login: L86833

Client Sample ID	Lab Sample ID.
BUFEQ-01	L86833-01
BUFBS-01 0-0.5 FT	L86833-02

(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

EST. 1970

Environmental Science Corporation
Mount Juliet, TN

For: William Gas Pipeline Central
Project: Buffalo
Project # 2203401
QAD1487

SDG: L86833

September 10, 2002

Sample Receiving and handling

All samples were received at the correct temperature, in the proper containers, and with the appropriate preservatives. All method holding times were met.

METHOD – Polychlorinated Biphenyls by Method 8082

Laboratory Control Standard (LCS)

Sample L86833-01 was analyzed in analytic batch WG81072. The laboratory control standard recovery associated with this sample was within laboratory control limits.

Sample L86833-02 was analyzed in analytic batch WG81049. The laboratory control standard recovery associated with this sample was within laboratory control limits.

Matrix Spike and Matrix Spike Duplicate (MS/MSD)

For analytic batch WG81049, matrix spike and matrix spike duplicate analysis was performed on client sample L86833-02. The spike recoveries and the relative percent difference were within laboratory control limits.

For analytic batch WG81072, matrix spike and matrix spike duplicate analysis was performed on the laboratory control sample. The spike recoveries and the relative percent difference were within laboratory control limits.

Blank Analysis
The method blanks and all continuing calibration blanks were below the method quantitation limit for all Arochlors.

Environmental Science Corporation
Mount Juliet, TN

For: William Gas Pipeline Central
Project: Buffalo
Project # 2203401
QAD1487

SDG: L86833

Calibration

The SVGC#4 was initially calibrated on 8/20/02 for dual column analysis. Final calibration verification on 8/20/02 on both columns was above the upper limit for Arochlor 1260.

Surrogates

The DCB surrogate on Column 2 was above the upper control limit on all samples and quality control samples. The TCX on both columns, and the DCB on Column 1 were within laboratory control limits for all samples and quality control samples.

Susan Murphy

Susan Murphy

Quality Control Specialist
Environmental Science Corp.

ENVIRONMENTAL
SCIENCE CORP.

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. Mark Sullivan
Williams Gas Pipeline Central
13424 West 98th Street
Shawnee Mission, KS 66215

August 21,2002

ESC Sample # : L86833-01

Date Received : August 20, 2002
Description : Williams Buffalo PCB Project

Site ID : BUFFALO

Sample ID : BUFEQ-01

Project # : 2203401

Collected By : Bruce McKenzie
Collection Date : 08/19/02 10:05

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Polychlorinated Biphenyls						
PCB 1016	BDL	0.00050	mg/l	8082	08/20/02	1
PCB 1221	BDL	0.00050	mg/l	8082	08/20/02	1
PCB 1232	BDL	0.00050	mg/l	8082	08/20/02	1
PCB 1242	BDL	0.00050	mg/l	8082	08/20/02	1
PCB 1248	BDL	0.00050	mg/l	8082	08/20/02	1
PCB 1254	BDL	0.00050	mg/l	8082	08/20/02	1
PCB 1260	BDL	0.00050	mg/l	8082	08/20/02	1
PCBs Surrogates						
Decachlorobiphenyl	80.		% Rec.	8082	08/20/02	1
Tetrachloro-m-xylene	84.		% Rec.	8082	08/20/02	1

Tom Mellette, ESC Representative

BDL - Below Detection Limit
Det. Limit - Estimated Quantitation Limit(EQL)

Laboratory Certification Numbers:
A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
KY - 90010, KYUST - 0016, NC - ENV375,DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233

Note:
The reported analytical results relate only to the sample submitted.
This report shall not be reproduced, except in full, without the written approval from ESC.

ENVIRONMENTAL
SCIENCE CORP.

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. Mark Sullivan
Williams Gas Pipeline Central
13424 West 98th Street
Shawnee Mission, KS 66215

August 21,2002

ESC Sample # : L86833-02

Date Received : August 20, 2002
Description : Williams Buffalo PCB Project

Site ID : BUFFALO

Sample ID : BUFBS-01 0-0.5 FT

Project # : 2203401

Collected By : Bruce McKenzie
Collection Date : 08/19/02 10:15

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	95.2		%	2540G	08/20/02	1
Polychlorinated Biphenyls						
PCB 1016	BDL	0.52	mg/kg	8082	08/20/02	10
PCB 1221	BDL	0.52	mg/kg	8082	08/20/02	10
PCB 1232	BDL	0.52	mg/kg	8082	08/20/02	10
PCB 1242	BDL	0.52	mg/kg	8082	08/20/02	10
PCB 1248	BDL	0.52	mg/kg	8082	08/20/02	10
PCB 1254	BDL	0.52	mg/kg	8082	08/20/02	10
PCB 1260	BDL	0.52	mg/kg	8082	08/20/02	10
PCBs Surrogates						
Decachlorobiphenyl	126.		% Rec.	8082	08/20/02	10
Tetrachloro-m-xylene	126.		% Rec.	8082	08/20/02	10

Tom Mellette, ESC Representative

Results listed are dry weight basis.
BDL - Below Detection Limit
Det. Limit - Estimated Quantitation Limit(EQL)

Laboratory Certification Numbers:
A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
KY - 90010, KYUST - 0016, NC - ENV375,DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233

Note:
This report shall not be reproduced, except in full, without the written approval from ESC.
The reported analytical results relate only to the sample submitted

Attachment A
List of Analytes with QC Qualifiers

Sample #	Analyte	Qualifier
L86833-02	PCB 1016	0
	PCB 1221	0
	PCB 1232	0
	PCB 1242	0
	PCB 1248	0
	PCB 1254	0
	PCB 1260	0
	Decachlorobiphenyl	0
	Tetrachloro-m-xylene	0

Attachment B
Explanation of QC Qualifier Codes

Qualifier	Meaning
O	(ESC) Sample diluted due to matrix interferences that impaired the ability to make an accurate analytical determination. The detection limit is elevated in order to reflect the necessary dilution.

Qualifier Report Information

ESC utilizes sample and result qualifiers as set forth by the EPA Contract Laboratory Program and as required by most certifying bodies including NELAC. In addition to the EPA qualifiers adopted by ESC, we have implemented ESC qualifiers to provide more information pertaining to our analytical results. Each qualifier is designated in the qualifier explanation as either EPA or ESC. Data qualifiers are intended to provide the ESC client with more detailed information concerning the potential bias of reported data. Because of the wide range of constituents and variety of matrices incorporated by most EPA methods, it is common for some compounds to fall outside of established ranges. These exceptions are evaluated and all reported data is valid and useable unless qualified as 'R' (Rejected).

Definitions

Accuracy - The relationship of the observed value of a known sample to the true value of a known sample. Represented by percent recovery and relevant to samples such as: control samples, matrix spike recoveries, surrogate recoveries, etc.

Precision - The agreement between a set of samples or between duplicate samples. Relates to how close together the results are and is represented by Relative Percent Differrence.

Surrogate - Organic compounds that are similar in chemical composition, extraction, and chromotography to analytes of interest. The surrogates are used to determine the probable response of the group of analytes that are chemically related to the surrogate compound. Surrogates are added to the sample and carried through all stages of preparation and analyses.

TIC - Tentatively Identified Compound: Compounds detected in samples that are not target compounds, internal standards, system monitoring compounds, or surrogates.

Summary of Remarks For Samples Printed
08/21/02 at 10:53:27

TSR Signing Reports: 690

Sample: L86833-01 Account: WILGASKS Received: 08/20/02 09:30 Due Date: 08/21/02 00:00
QC4 Project
Sample: L86833-02 Account: WILGASKS Received: 08/20/02 09:30 Due Date: 08/21/02 00:00
QC4 Project

Polychlorinated Biphenyls
by
Method 8082

U.S. EPA - CLP

COVER PAGE - PESTICIDES/PCB ANALYSES DATA PACKAGE

Lab Name: Environmental Science Corporation Contract: Willams Gas & Pipeline

Lab Code: TN00003 Case No.: QAD1487 SAS No.: SDG No.: L86833

Matrix: Soil Analytic Batch: WG81049

EPA Sample No.	Lab Sample ID.
BUFEQ-01	L86833-01
BUFBS-01 0-0.5 FT	L86833-02

Comments:

I certify that this data package accurately represents the information in the raw data found herein, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: William Meek William Meek

Date: 9/16/02 Organics Manager

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Blank 1x WG81049

Lab Name: Environmental Science Corpor Contract: Willams Gas & Pipeline

Lab Code: TN00003 Case No.: QAD1487 SAS No.: _____ SDG No.: L86833

Matrix: (soil/water) Soil Lab Sample ID: Blank 1x WG81049

Sample wt/vol: 15 (g/mL) g Lab File ID: 0820_16.D

% Moisture: _____ decanted: (Y/N) _____ Date Received: _____

Extraction: (SepF/Cont/Sonc) Micro Date Extracted: 08/20/02

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 08/20/02

Injection Volume: _____ (uL) Dilution Factor: 1

GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) mg/kg	Q
12674-11-2	Aroclor-1016	0.20	U
11104-28-2	Aroclor-1221	0.20	U
11141-16-5	Aroclor-1232	0.40	U
53469-21-9	Aroclor-1242	0.20	U
12672-29-6	Aroclor-1248	0.20	U
11097-69-1	Aroclor-1254	0.20	U
11096-82-5	Aroclor-1260	0.20	U

1D

EPA SAMPLE NO.

PESTICIDE ORGANICS ANALYSIS DATA SHEET

Blank 1x WG81072

Lab Name: Environmental Science Corpor Contract: Willams Gas & Pipeline

Lab Code: TN00003 Case No.: QAD1487 SAS No.: _____ SDG No.: L86833

Matrix: (soil/water) Water Lab Sample ID: Blank 1x WG81072

Sample wt/vol: 1000 (g/mL) mL Lab File ID: 0820_11.D

% Moisture: _____ decanted: (Y/N) _____ Date Received: _____

Extraction: (SepF/Cont/Sonc) SepF Date Extracted: 08/20/02

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 08/20/02

Injection Volume: _____ (uL) Dilution Factor: 1

GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) mg/l	Q
12674-11-2 - - - - -	Aroclor-1016	0.0005	U
11104-28-2 - - - - -	Aroclor-1221	0.0005	U
11141-16-5 - - - - -	Aroclor-1232	0.0005	U
53469-21-9 - - - - -	Aroclor-1242	0.0005	U
12672-29-6 - - - - -	Aroclor-1248	0.0005	U
11097-69-1 - - - - -	Aroclor-1254	0.0005	U
11096-82-5 - - - - -	Aroclor-1260	0.0005	U

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

LCS 1x WG81049

Lab Name: Environmental Science Corpor Contract: Willams Gas & Pipeline

Lab Code: TN00003 Case No.: QAD1487 SAS No.: _____ SDG No.: L86833

Matrix: (soil/water) Soil Lab Sample ID: LCS 1x WG81049

Sample wt/vol: 15 (g/mL) g Lab File ID: 0820_17.D

% Moisture: _____ decanted: (Y/N) _____ Date Received: _____

Extraction: (SepF/Cont/Sonc) Micro Date Extracted: 08/20/02

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 08/20/02

Injection Volume: _____ (uL) Dilution Factor: 1

GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) mg/kg	Q
12674-11-2	Aroclor-1016	0.20	U
11104-28-2	Aroclor-1221	0.20	U
11141-16-5	Aroclor-1232	0.20	U
53469-21-9	Aroclor-1242	0.20	U
12672-29-6	Aroclor-1248	0.20	U
11097-69-1	Aroclor-1254	0.20	U
11096-82-5	Aroclor-1260	0.51	

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

LCSD 1x WG81049

Lab Name: Environmental Science Corpor Contract: Willams Gas & Pipeline

Lab Code: TN00003 Case No.: QAD1487 SAS No.: _____ SDG No.: L86833

Matrix: (soil/water) Soil Lab Sample ID: LCSD 1x WG81049

Sample wt/vol: 15 (g/mL) g Lab File ID: 0820_18.D

% Moisture: _____ decanted: (Y/N) _____ Date Received: _____

Extraction: (SepF/Cont/Sonc) Micro Date Extracted: 08/20/02

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 08/20/02

Injection Volume: _____ (uL) Dilution Factor: 1

GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) mg/kg	Q
12674-11-2	Aroclor-1016	0.20	U
11104-28-2	Aroclor-1221	0.20	U
11141-16-5	Aroclor-1232	0.20	U
53469-21-9	Aroclor-1242	0.20	U
12672-29-6	Aroclor-1248	0.20	U
11097-69-1	Aroclor-1254	0.20	U
11096-82-5	Aroclor-1260	0.50	

1D

EPA SAMPLE NO.

PESTICIDE ORGANICS ANALYSIS DATA SHEET

MS 10x WG81049

Lab Name: Environmental Science Corpor Contract: Willams Gas & Pipeline

Lab Code: TN00003 Case No.: QAD1487 SAS No.: _____ SDG No.: L86833

Matrix: (soil/water) Soil Lab Sample ID: MS 10x WG81049

Sample wt/vol: 15 (g/mL) g Lab File ID: 0820_19.D

% Moisture: _____ decanted: (Y/N) _____ Date Received: _____

Extraction: (SepF/Cont/Sonc) Micro Date Extracted: 08/20/02

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 08/20/02

Injection Volume: _____ (uL) Dilution Factor: 10

GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) mg/kg	Q
12674-11-2	Aroclor-1016	0.20	U
11104-28-2	Aroclor-1221	0.20	U
11141-16-5	Aroclor-1232	0.20	U
53469-21-9	Aroclor-1242	0.20	U
12672-29-6	Aroclor-1248	0.20	U
11097-69-1	Aroclor-1254	0.20	U
11096-82-5	Aroclor-1260	0.53	

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MSD 10x WG81049

Lab Name: Environmental Science Corpor Contract: Willams Gas & Pipeline

Lab Code: TN00003 Case No.: QAD1487 SAS No.: _____ SDG No.: L86833

Matrix: (soil/water) Soil Lab Sample ID: MSD 10x WG81049

Sample wt/vol: 15 (g/mL) g Lab File ID: 0820_20.D

% Moisture: _____ decanted: (Y/N) _____ Date Received: _____

Extraction: (SepF/Cont/Sonc) Micro Date Extracted: 08/20/02

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 08/20/02

Injection Volume: _____ (uL) Dilution Factor: 10

GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) mg/kg	Q
12674-11-2 - - - - -	Aroclor-1016	0.20	U
11104-28-2 - - - - -	Aroclor-1221	0.20	U
11141-16-5 - - - - -	Aroclor-1232	0.20	U
53469-21-9 - - - - -	Aroclor-1242	0.20	U
12672-29-6 - - - - -	Aroclor-1248	0.20	U
11097-69-1 - - - - -	Aroclor-1254	0.20	U
11096-82-5 - - - - -	Aroclor-1260	0.52	

1D

EPA SAMPLE NO.

PESTICIDE ORGANICS ANALYSIS DATA SHEET

LCS 1x WG81072

Lab Name: Environmental Science Corpor Contract: Willams Gas & Pipeline

Lab Code: TN00003 Case No.: QAD1487 SAS No.: _____ SDG No.: L86833

Matrix: (soil/water) Water Lab Sample ID: LCS 1x WG81072

Sample wt/vol: 1000 (g/mL) mL Lab File ID: 0820_12.D

% Moisture: _____ decanted: (Y/N) _____ Date Received: _____

Extraction: (SepF/Cont/Sonc) SepF Date Extracted: 08/20/02

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 08/20/02

Injection Volume: _____ (uL) Dilution Factor: 1

GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) mg/l	Q
12674-11-2 - - - - -	Aroclor-1016	0.0005	U
11104-28-2 - - - - -	Aroclor-1221	0.0005	U
11141-16-5 - - - - -	Aroclor-1232	0.0005	U
53469-21-9 - - - - -	Aroclor-1242	0.0005	U
12672-29-6 - - - - -	Aroclor-1248	0.0005	U
11097-69-1 - - - - -	Aroclor-1254	0.0005	U
11096-82-5 - - - - -	Aroclor-1260	0.47	

1D

EPA SAMPLE NO.

PESTICIDE ORGANICS ANALYSIS DATA SHEET

LCSD 1x WG81072

Lab Name: Environmental Science Corpor Contract: Willams Gas & Pipeline

Lab Code: TN00003 Case No.: QAD1487 SAS No.: _____ SDG No.: L86833

Matrix: (soil/water) Water Lab Sample ID: LCSD 1x WG81072

Sample wt/vol: 1000 (g/mL) mL Lab File ID: 0820_13.D

% Moisture: _____ decanted: (Y/N) _____ Date Received: _____

Extraction: (SepF/Cont/Sonc) SepF Date Extracted: 08/20/02

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 08/20/02

Injection Volume: _____ (uL) Dilution Factor: 1

GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) mg/l	Q
12674-11-2 - - - - -	Aroclor-1016	0.0005	U
11104-28-2 - - - - -	Aroclor-1221	0.0005	U
11141-16-5 - - - - -	Aroclor-1232	0.0005	U
53469-21-9 - - - - -	Aroclor-1242	0.0005	U
12672-29-6 - - - - -	Aroclor-1248	0.0005	U
11097-69-1 - - - - -	Aroclor-1254	0.0005	U
11096-82-5 - - - - -	Aroclor-1260	0.40	

2F

SOIL PESTICIDE SURROGATE RECOVERY

Lab Name: Environmental Science Corporation Contract: Willams Gas & Pipeline

Lab Code: TN00003 Case No.: QAD1487 SAS No.: _____ SDG No.: L86833

GC Column(1): RTX-CLP Pest 1 GC Column(2): RTX-CLP Pest 2

	Lab SAMPLE NO.	TCX 1 %REC	#	TCX 2 %REC	#	DCB 1 %REC	#	DCB 2 %REC	#	OTHER (2)	TOT OUT
01	Blank 1x WG81049	83%		93%		89%		149%	*		0
02	LCS 1x WG81049	91%		106%		95%		151%	*		0
03	LCSD 1x WG81049	89%		104%		93%		148%	*		0
04	MS 10x WG81049	123%		135%		116%		171%	*		0
05	MSD 10x WG81049	109%		123%		110%		166%	*		0
06	L86833-02 10x	126%		145%		126%		205%	*		0
07											
08											
09											
10											
11											
12											
13											
14											
15											
16											
17											
18											
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20											
21											
22											
23											
24											
25											
26											
27											
28											
29											
30											

	ADVISORY QC LIMITS
TCX = Tetrachloro-m-xylene	(41-145)
DCB = Decachlorobiphenyl	(39-137)

Column to be used to flag recovery values

* Values outside of contract required QC limits

2F

WATER PESTICIDE SURROGATE RECOVERY

Lab Name: Environmental Science Corporation Contract: Willams Gas & Pipeline

Lab Code: TN00003 Case No.: QAD1487 SAS No.: _____ SDG No.: L86833

GC Column(1): RTX-CLP Pest 1 GC Column(2): RTX-CLP Pest 2

	Lab SAMPLE NO.	TCX 1 %REC	#	TCX 2 %REC	#	DCB 1 %REC	#	DCB 2 %REC	#	OTHER (2)	TOT OUT
01	Blank 1x WG81072	77%		80%		86%		86%			0
02	LCS 1x WG81072	80%		91%		86%		113%			0
03	LCSD 1x WG81072	74%		82%		76%		105%			0
04	L86833-01 1x	84%		88%		80%		121%			0
05											
06											
07											
08											
09											
10											
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26											
27											
28											
29											
30											

ADVISORY
QC LIMITS

TCX = Tetrachloro-m-xylene (41-145)
DCB = Decachlorobiphenyl (39-137)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogate diluted out

3F

SOIL PESTICIDE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Environmental Science Corporation Contract: Willams Gas & Pipeline

Lab Code: TN00003 Case No.: QAD1487 SAS No.: SDG No.: L86833

Matrix Spike - Lab Sample No.: L86833-02

COMPOUND		SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC. LIMITS REC.
1260						
	1	0.5	0	0.489		
	2	0.5	0	0.495		
	3	0.5	0	0.472		
	4	0.5	0	0.647	105.2%	49-142

COMPOUND		SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1260							
	1	0.5	0.463				
	2	0.5	0.487				
	3	0.5	0.480				
	4	0.5	0.630	103.0%	2	49-142	12

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

* Values outside of QC limits

RPD: 0 out of 1 outside limits

Spike Recovery: 0 out of 2 outside limits

COMMENTS:

3F

SOIL PESTICIDE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Environmental Science Corporation Contract: Willams Gas & Pipeline

Lab Code: TN00003 Case No.: QAD1487 SAS No.: _____ SDG No.: L86833

Matrix Spike - Lab Sample No.: LCS/LCSD

COMPOUND		SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	#	QC. LIMITS REC.
1260							
	1	0.5	0 U	0.477			
	2	0.5	0 U	0.442			
	3	0.5	0 U	0.566			
	4	0.5	0 U	0.543	101.4%		49-142

COMPOUND		SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	#	% RPD	#	QC LIMITS RPD	QC LIMITS REC.
1260									
	1	0.5	0.442						
	2	0.5	0.439						
	3	0.5	0.571						
	4	0.5	0.555	100.4%		1		49-142	12

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

* Values outside of QC limits

RPD: 0 out of 1 outside limits

Spike Recovery: 0 out of 2 outside limits

COMMENTS: _____

3F

WATER PESTICIDE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Environmental Science Corporation Contract: Willams Gas & Pipeline

Lab Code: TN00003 Case No.: QAD1487 SAS No.: SDG No.: L86833

Matrix Spike - Lab Sample No.: LCS/LCSD

COMPOUND		SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC. LIMITS REC.
1260						
	1	0.5	0 U	0.464		
	2	0.5	0 U	0.417		
	3	0.5	0 U	0.525		
	4	0.5	0 U	0.489	94.8%	49-142

COMPOUND		SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1260							
	1	0.5	0.354				
	2	0.5	0.368				
	3	0.5	0.476				
	4	0.5	0.449	82.4%	14	49-142	12

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

* Values outside of QC limits

RPD: 0 out of 1 outside limits

Spike Recovery: 0 out of 2 outside limits

COMMENTS:

4C

EPA SAMPLE NO.

PESTICIDE METHOD BLANK SUMMARY

Blank 1x WG81049

Lab Name: Environmental Science Corporati Contract: Willams Gas & Pipeline

Lab Code: TN00003 Case No.: QAD148 SAS No.: _____ SDG No.: L86833

Lab Sample ID: Blank 1x WG81049 Lab File ID: 0820_16.D

Matrix: (soil/water) Soil Extraction:(SepF/Cont/Sonc) Micro

Sulfur Cleanup: (Y/N) N Date Extracted: 08/20/02

Date Analyzed (1): 08/20/02 Date Analyzed (2): 08/20/02

Time Analyzed (1): 11:58 Time Analyzed (2): 11:58

Instrument ID (1): SVGC#4 Instrument ID (2): SVGC#4

GC Column(1): RTX-CLP Pest 1 GC Column(2): RTX-CLP Pest 2 ID: .32 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	Blank 1x WG81049	Blank 1x WG81049	08/20/02	08/20/02
02	LCS 1x WG81049	LCS 1x WG81049	08/20/02	08/20/02
03	LCSD 1x WG81049	LCSD 1x WG81049	08/20/02	08/20/02
04	MS 10x WG81049	MS 10x WG81049	08/20/02	08/20/02
05	MSD 10x WG81049	MSD 10x WG81049	08/20/02	08/20/02
06	BUFBS-01 0-0.5 FT	L86833-02 10x	08/20/02	08/20/02
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				

COMMENTS:

4C

EPA SAMPLE NO.

PESTICIDE METHOD BLANK SUMMARY

Blank 1x WG81072

Lab Name: Environmental Science Corporati Contract: Willams Gas & Pipeline

Lab Code: TN00003 Case No.: QAD148 SAS No.: _____ SDG No.: L86833

Lab Sample ID: Blank 1x WG81072 Lab File ID: 0820_11.D

Matrix: (soil/water) Water Extraction:(SepF/Cont/Sonc) SepF

Sulfur Cleanup: (Y/N) N Date Extracted: 08/20/02

Date Analyzed (1): 08/20/02 Date Analyzed (2): 08/20/02

Time Analyzed (1): 11:58 Time Analyzed (2): 11:58

Instrument ID (1): SVGC#4 Instrument ID (2): SVGC#4

GC Column(1): RTX-CLP Pest 1 GC Column(2): RTX-CLP Pest 2 ID: .32 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	Blank 1x WG81072	Blank 1x WG81072	08/20/02	08/20/02
02	LCS 1x WG81072	LCS 1x WG81072	08/20/02	08/20/02
03	LCSD 1x WG81072	LCSD 1x WG81072	08/20/02	08/20/02
04	BUFEQ-01	L86833-01 1x	08/20/02	08/20/02
05				
06				
07				
08				
09				
10				
11				
12				
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26				
27				

COMMENTS:

6F

PESTICIDE INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: Environmental Science Corporation Contract: Willams Gas & Pipeline

Lab Code: TN00003 Case No.: QAD1487 SAS No.: _____ SDG No.: L86833

Insrument ID: SVGC#4 Date(s) Analyzed: _____ _____

First Column: RTX CLP Pest 1 Second Column: RTX CLP Pest 2

First Column: COMPOUND	AMOUNT (ppm)	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR
Aroclor 1016	0.5	*1	4.69	4.64	4.74	1.952 E5
		*2	5.41	5.36	5.46	1.486 E5
		*3	5.77	5.72	5.82	3.175 E5
		4	5.97	5.92	6.02	1.824 E5
		5				
Aroclor 1254	1.0	*1	6.26	6.21	6.31	1.295 E5
		*2	6.86	6.81	6.91	3.516 E5
		*3	7.32	7.27	7.37	6.563 E5
		4	7.70	7.65	7.75	2.808 E5
		5				
Aroclor 1260	0.5	*1	7.64	7.59	7.69	1.174 E5
		*2	7.70	7.65	7.75	6.093 E5
		*3	8.51	8.46	8.56	2.339 E5
		4	8.67	8.62	8.72	0.900 E6
		5				

Second Column COMPOUND	AMOUNT (ppm)	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR
Aroclor 1016	0.5	*1	4.41	4.36	4.46	1.600 E5
		*2	5.55	5.50	5.60	1.691 E5
		*3	6.01	5.96	6.06	1.014 E5
		4	6.57	6.52	6.62	1.596 E5
		5				
Aroclor 1254	1.0	*1	5.93	5.88	5.98	1.039 E5
		*2	6.86	6.81	6.91	2.436 E5
		*3	6.99	6.94	7.04	3.875 E5
		4	7.26	7.21	7.31	3.278 E5
		5				
Aroclor 1260	0.5	*1	7.15	7.10	7.20	3.498 E5
		*2	7.42	7.37	7.47	5.355 E5
		*3	7.71	7.66	7.76	6.137 E5
		4	8.35	8.30	8.40	6.767 E5
		5				

* Denotes required peaks

7E

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: Environmental Science Corporation Contract: Willams Gas & Pipeline

Lab Code: TN00003 Case No.: QAD1487 SAS No.: SDG No.: L86833

Primary Analysis: Init. Calib. Date(s):

Arochlor 1016/1260 Date Analyzed: 08/20/02

Instrument: SVGC#4 Time Analyzed: 14:35

Lab File ID: 0820_10.D

Archlor 1254 Date Analyzed:

Lab File ID: Time Analyzed:

First Column: COMPOUND		RT	RT WINDOW FROM	TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
Arochlor 1016	1	4.69	4.64	4.74	0.502		
	2	5.41	5.36	5.46	0.502		
	3	5.77	5.72	5.82	0.562		
	4	5.97	5.92	6.02	0.500	0.500	3
Arochlor 1260	1	7.64	7.59	7.69	0.537		
	2	7.70	7.65	7.75	0.542		
	3	8.51	8.46	8.56	0.515		
	4	8.67	8.62	8.72	0.534	0.500	6

Second Column: COMPOUND		RT	RT WINDOW FROM	TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
Arochlor 1016	1	4.40	4.36	4.46	0.496		
	2	5.55	5.50	5.60	0.532		
	3	6.01	5.96	6.06	0.550		
	4	6.57	6.52	6.62	0.549	0.500	6
Arochlor 1260	1	7.15	7.10	7.20	0.589		
	2	7.42	7.37	7.47	0.528		
	3	7.70	7.66	7.76	0.501		
	4	8.35	8.30	8.40	0.501	0.500	6

7E

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: Environmental Science Corporation Contract: Willams Gas & Pipeline

Lab Code: TN00003 Case No.: QAD1487 SAS No.: _____ SDG No.: L86833

Primary Analysis: Init. Calib. Date(s): _____

Arochlor 1016/1260 Date Analyzed: 08/20/02

Instrument: SVGC#4 Time Analyzed: 15:47

Lab File ID: 0820_15.D

Archlor 1254 Date Analyzed: _____

Lab File ID: _____ Time Analyzed: _____

First Column: COMPOUND		RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
Arochlor 1016	1	4.68	4.64	4.74	0.445		
	2	5.40	5.36	5.46	0.530		
	3	5.76	5.72	5.82	0.583		
	4	5.96	5.92	6.02	0.510	0.500	3
Arochlor 1260	1	7.63	7.59	7.69	0.593		
	2	7.69	7.65	7.75	0.529		
	3	8.50	8.46	8.56	0.579		
	4	8.66	8.62	8.72	0.603	0.500	15

Second Column: COMPOUND		RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
Arochlor 1016	1	4.40	4.36	4.46	0.667		
	2	5.54	5.50	5.60	0.710		
	3	6.00	5.96	6.06	0.740		
	4	6.56	6.52	6.62	0.745	0.500	43
Arochlor 1260	1	7.15	7.10	7.20	0.774		
	2	7.41	7.37	7.47	0.680		
	3	7.70	7.66	7.76	0.664		
	4	8.35	8.30	8.40	0.701	0.500	41

7E

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: Environmental Science Corporation Contract: Willams Gas & Pipeline

Lab Code: TN00003 Case No.: QAD1487 SAS No.: _____ SDG No.: L86833

Primary Analysis: Init. Calib. Date(s): _____

Arochlor 1016/1260 Date Analyzed: 08/20/02

Instrument: SVGC#4 Time Analyzed: 17:26

Lab File ID: 0820_22.D

Archlor 1254 Date Analyzed: _____

Lab File ID: _____ Time Analyzed: _____

First Column: COMPOUND		RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	RPD
Arochlor 1016	1	4.68	4.64	4.74	0.426		
	2	5.40	5.36	5.46	0.537		
	3	5.76	5.72	5.82	0.577		
	4	5.96	5.92	6.02	0.487	0.500	1
Arochlor 1254	1						
	2						
	3						
	4						
Arochlor 1260	1	7.63	7.59	7.69	0.593		
	2	7.69	7.65	7.75	0.540		
	3	8.50	8.46	8.56	0.554		
	4	8.66	8.62	8.72	0.582	0.500	13

Second Column: COMPOUND		RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	RPD
Arochlor 1016	1	4.40	4.36	4.46	0.688		
	2	5.54	5.50	5.60	0.732		
	3	6.00	5.96	6.06	0.754		
	4	6.56	6.52	6.62	0.794	0.500	48
Arochlor 1254	1						
	2						
	3						
	4						
Arochlor 1260	1	7.15	7.10	7.20	0.796		
	2	7.41	7.37	7.47	0.707		
	3	7.70	7.66	7.76	0.684		
	4	8.34	8.30	8.40	0.701	0.500	44

8D

PESTICIDE ANALYTICAL SEQUENCE

Lab Name: Environmental Science Corporation Contract: Willams Gas & Pipeline

Lab Code: TN00003 Case No.: QAD1487 SAS No.: _____ SDG No.: L86833

GC Column: RTX-CLP Pest 1 Init. Calib. Date(s): _____ _____

Instrument ID: SVGC#4

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION

TCX: 4.10 DCB: 10.58

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	TXC RT #	DCB RT #
01	Blank 1x WG81049	Blank 1x WG8104	08/20/02	16:01	4.10	10.58
02	LCS 1x WG81049	LCS 1x WG81049	08/20/02	16:15	4.09	10.58
03	LCSD 1x WG81049	LCSD 1x WG81049	08/20/02	16:29	4.10	10.58
04	MS 10x WG81049	MS 10x WG81049	08/20/02	16:43	4.10	10.58
05	MSD 10x WG81049	MSD 10x WG81049	08/20/02	16:58	4.10	10.58
06	BUFBS-01 0-0.5 FT	L86833-02 10x	08/20/02	17:12	4.10	10.58
07						
08						
09						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
23						
24						
25						
26						
27						
28						
29						
30						
31						
32						

QC LIMITS

TCX = Tetrachloro-m-xylene (± 0.05 MINUTES)

DCB = Decachlorobiphenyl (± 0.10 MINUTES)

Column used to flag retention time values with an asterisk.

* Values outside of QC limits.

8D

PESTICIDE ANALYTICAL SEQUENCE

Lab Name: Environmental Science Corporation Contract: Willams Gas & Pipeline

Lab Code: TN00003 Case No.: QAD1487 SAS No.: _____ SDG No.: L86833

GC Column: RTX-CLP Pest 1 Init. Calib. Date(s): _____ _____

Instrument ID: SVGC#4

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
TCX: 4.11 DCB: 10.61

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	TXC RT #	DCB RT #
01	Blank 1x WG81072	Blank 1x WG8107	08/20/02	14:50	4.11	10.60
02	LCS 1x WG81072	LCS 1x WG81072	08/20/02	15:04	4.10	10.59
03	LCSD 1x WG81072	LCSD 1x WG81072	08/20/02	15:18	4.10	10.59
04	BUFEQ-01	L86833-01 1x	08/20/02	15:32	4.10	10.58
05						
06						
07						
08						
09						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
23						
24						
25						
26						
27						
28						
29						
30						
31						
32						

QC LIMITS

TCX = Tetrachloro-m-xylene (± 0.05 MINUTES)

DCB = Decachlorobiphenyl (± 0.10 MINUTES)

Column used to flag retention time values with an asterisk.

* Values outside of QC limits.

LABORATORY CONTROL SAMPLE
WG81049

Lab Name: Environmental Science Corporation Contract: Willams Gas & Pipeline

Lab Code: TN00003 Case No.: QAD1487 SAS No.: SDG No.: L86833

Solid LCS Source: Lab File ID: 0820_17.D

Aqueous LCS Source:

Analyte		True	Found	%R	Control Limits		Q
Arochlor 1260	1	0.5	0.477				
	2	0.5	0.442				
	3	0.5	0.566				
	4	0.5	0.543	101.4%	64%	129%	

LABORATORY CONTROL SAMPLE
WG81072

Lab Name: Environmental Science Corporation Contract: Willams Gas & Pipeline

Lab Code: TN00003 Case No.: QAD1487 SAS No.: SDG No.: L86833

Solid LCS Source: Lab File ID: 0820_12.D

Aqueous LCS Source:

Analyte		True	Found	%R	Control Limits		Q
Arochlor 1260	1	0.5	0.464				
	2	0.5	0.417				
	3	0.5	0.525				
	4	0.5	0.489	94.8%	64%	129%	

Raw Data

SOILS/SOLIDS EXTRACTION LOG

Environmental Science Corp.

DATE 8/20/02

NaSO4 Lot # 8132 ANALYST LF318

Surrogate Std # 8081 Solvent Lot # 8207 [MeCl2] Acetone Hexane MTBE Other ____

7719 Solvent Lot # 8199 MeCl2 Acetone [Hexane] MTBE Other ____

M. Spike Std # ~~[illegible]~~ M.Spike Vol. Used 0.5ml LC Spike Std# SAME LC Spike Vol. Used 0.5ml

EXTRACTION METHOD 3546 FOR ANALYSIS METHOD 8082 SOP# —

Sample #	Wet Weight Extracted	Solvent Volume Used	Solvent Volume Rec.	Final Volume	Surr. Volume Added	Remarks/Observations
Method Blank	15.07g	35mL	35mL	5.0ml	0.5mL	50ml hexane exchange
LCS						
LCSD						
MS 86833-02	15.02					
MSD						
1 L86833-02	15.00g					
2 L86686-01						
3 -02						
-03	15.07					
5 -04	15.04					
6 -05	15.03					
7 -06	15.07					
8 L86869-01	.51 g					H_2SO_4 cleanup
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						

Reviewed by: K Rouse 8/20/02

Remarks/Observations: (Con't on back if nec.) WG 81049

WATER EXTRACTION LOG

Environmental Science Corp.

DATE 8/20/02

NaSO4 Lot # 8132 ANALYST MT→326

Surrogate Std # 8081 Solvent Lot # 8207 [MeCl2] Acetone Hexane MTBE Other —

Spike Std # PCB 7740 Solvent Lot # 8199 MeCl2 Acetone [Hexane] MTBE Other —

M. Spike Std # SAME M.Spike Vol. Used 1.0mL LC Spike Std# SAME LC Spike Vol. Used 1.0mL

EXTRACTION METHOD 3510 FOR ANALYSIS METHOD 8082 SOP# 330702

Sample #	Initial pH	Volume Extracted	Solvent Volume Used	Final Volume	Surr. Volume Added	Solvent Exchange Vol.
Method Blank		1000mL	180mL	10.0mL	1.0mL	50mL HEXANE
LCS		↓	↓	↓	↓	↓
LCSD		↓	↓	↓	↓	↓
MS	—	—	—	—	—	—
MSD	—	—	—	—	—	—
1 LB68330		1000mL	180mL	10.0mL	1.0mL	50mL HEXANE
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						

8-20-02

Reviewed by:

Remarks/Observations (cont. on back) WG→ 81072

Injection Log

Directory: C:\HPCHEM\2\DATA\082002

Svgc4 PCB20820 8/21/02 KK 8/21/02

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	1	0820_01.D	1.	Hexane		20 Aug 2002 10:57
2	1	0820_02.D	1.	Hexane		20 Aug 2002 11:11
3	3	0820_03.D	1.	1016/1260 .05ppm	BS030104K30	20 Aug 2002 11:25
4	4	0820_04.D	1.	1016/1260 .10ppm	BS030104K30	20 Aug 2002 11:40
5	5	0820_05.D	1.	1016/1260 .25ppm PCB20820	BS030104K30	20 Aug 2002 11:54
6	6	0820_06.D	1.	1016/1260 .50ppm	BS030104K30	20 Aug 2002 12:08
7	7	0820_07.D	1.	1016/1260 .75ppm	BS030104K30	20 Aug 2002 12:23
8	8	0820_08.D	1.	1016/1260 1.0ppm	BS030104K30	20 Aug 2002 12:37
9	9	0820_09.D	1.	1254 1ppm		20 Aug 2002 14:21
10	2	0820_10.D	1.	1016/1260 .50ppm	BS030104K30	20 Aug 2002 14:35
11	3	0820_11.D	1.	Blank 1x WG81072 1000-10	surr ESC8081	20 Aug 2002 14:50
12	4	0820_12.D	1.	LCS 1x WG81072 1000-10	spk ESC7740	20 Aug 2002 15:04
13	5	0820_13.D	1.	LCSD 1x WG81072 1000-10	spk ESC7740	20 Aug 2002 15:18
14	6	0820_14.D	1.	L86833-01 1x WG81072 1000-10		20 Aug 2002 15:32
15	2	0820_15.D	1.	1016/1260 .50ppm - new vial	BS030104K30	20 Aug 2002 15:47
16	7	0820_16.D	1.	Blank 1x WG81049 15-5	surr ESC8081	20 Aug 2002 16:01
17	8	0820_17.D	1.	LCS 1x WG81049 15-5	spk ESC7719	20 Aug 2002 16:15
18	9	0820_18.D	1.	LCSD 1x WG81049 15-5	LF 8/20 spk ESC7719	20 Aug 2002 16:29
19	10	0820_19.D	10.	MS 10x WG81049 L86833-02 15-5	LF 8/20 spk ESC7719	20 Aug 2002 16:43
20	11	0820_20.D	10.	MSD 10x WG81049 L86833-02 15-5	LF 8/20 spk ESC7719	20 Aug 2002 16:58
21	12	0820_21.D	10.	L86833-02 10x WG81049 15-5		20 Aug 2002 17:12
22	2	0820_22.D	1.	1016/1260 .50ppm - new vial	BS030104K30	20 Aug 2002 17:26
23	14	0820_23.D	1.	L86686-03 1x WG81049 15-5		20 Aug 2002 17:40
[illegible]	15	0820_24.D	1.	L86686-04 1x WG81049 15-5		20 Aug 2002 17:55
25	16	0820_25.D	1.	L86686-05 1x WG81049 15-5		20 Aug 2002 18:09
26	17	0820_26.D	1.	L86686-06 1x WG81049 15-5		20 Aug 2002 18:23
27	18	0820_27.D	1.	L86686-01 1x WG81049 15-5		20 Aug 2002 18:37
28	19	0820_28.D	1.	L86869-01 1x WG81049 .5-5		20 Aug 2002 18:51
29	13	0820_29.D	1.	L86686-02 1x WG81049 15-5		20 Aug 2002 19:05
30	1	0820_30.D	1.	hexane		20 Aug 2002 19:20
31	2	0820_31.D	1.	1016/1260 .50ppm - new vial	BS030104K30	20 Aug 2002 19:34
32	20	0820_32.D	1.	Blank 1x WG80970 1000-10	surr ESC8081	20 Aug 2002 19:48
33	21	0820_33.D	1.	LCS 1x WG80970 1000-10	spk ESC7740	20 Aug 2002 20:02
34	22	0820_34.D	1.	LCSD 1x WG80970 1000-10	GM 8/20 spk ESC7740	20 Aug 2002 20:17
35	23	0820_35.D	1.	L86655-06 1x WG80970 1000-10	GM 8/20 spk ESC7740	20 Aug 2002 20:31
36	1	0820_36.D	1.	hexane		20 Aug 2002 20:45
37	2	0820_37.D	1.	1016/1260 .50ppm - new vial	BS030104K30	20 Aug 2002 20:59

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Quantitation Report (QT Reviewed)

#1 : D:\DATA\SVGC#4\082002\0820_09.D\ECD1A.CH Vial: 9
Signal #2 : D:\DATA\SVGC#4\082002\0820_09.D\ECD2B.CH
Acq On : 20 Aug 2002 2:21 pm Operator: 308
Sample : 1254 1ppm Inst : SVGC4
Misc : Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Aug 20 14:41 2002 Quant Results File: 1254K.RES

Quant Method : C:\HPCHEM\2\METHODS\1254K.M (Chemstation Integrator)
Title :
Last Update : Tue Aug 20 14:41:18 2002
Response via : Initial Calibration
DataAcq Meth : PCB20819.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

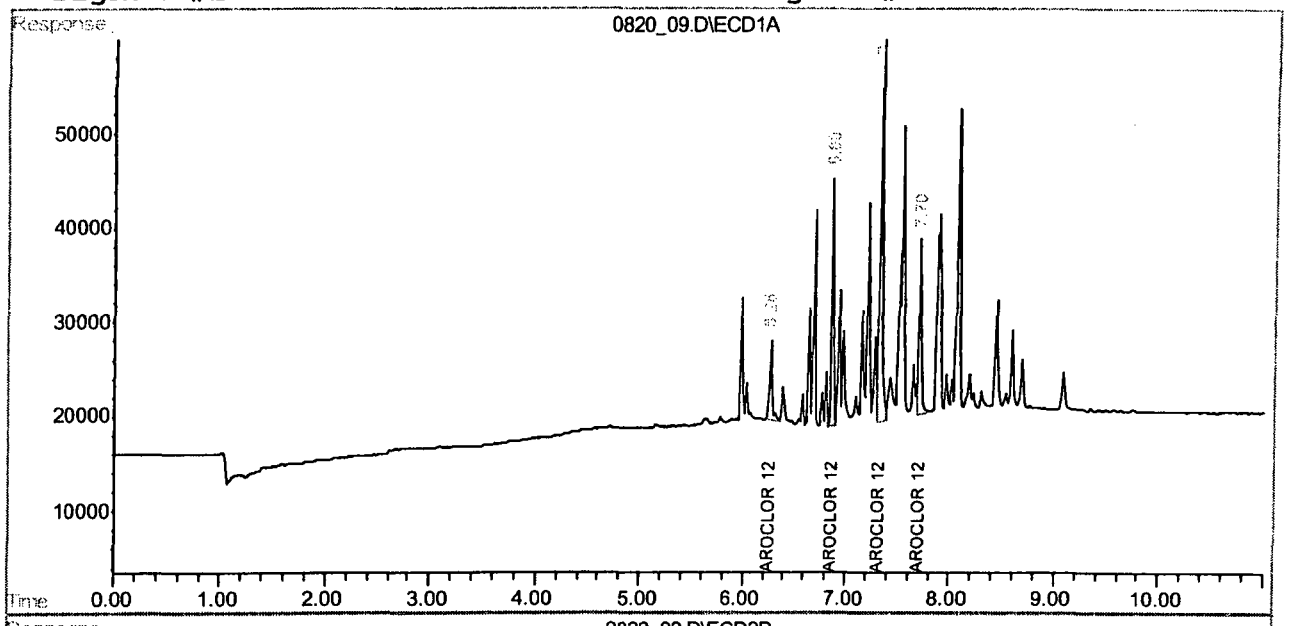
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) s TCMX	0.00	0	N.D. µg/mL
Spiked Amount 0.200	Range 41 - 145	Recovery =	0.00%#
6) s DCB	0.00	0	N.D. µg/mL
Spiked Amount 0.200	Range 39 - 137	Recovery =	0.00%#
8) s TCMX #2	0.00	0	N.D. µg/mL
Spiked Amount 0.200	Range 41 - 145	Recovery =	0.00%#
13) s dcb #2	0.00	0	N.D. µg/mL
Spiked Amount 0.200	Range 39 - 137	Recovery =	0.00%#
Target Compounds			
2) m,t AROCLOR 1254(1)	6.26	129543	1.000 µg/mL
3) m,t AROCLOR 1254(2)	6.86	351635	1.000 µg/mL
4) m,t AROCLOR 1254(3)	7.32	656254	1.000 µg/mL
5) m,t AROCLOR 1254(4)	7.70	280785	1.120 µg/mLm
9) m,t AROCLOR 1254(1) #2	5.93	103874	1.000 µg/mL
10) m,t AROCLOR 1254(2) #2	6.86	243620	1.000 µg/mL
11) m,t AROCLOR 1254(3) #2	6.99	387478	1.000 µg/mL
12) m,t AROCLOR 1254(4) #2	7.26	327788	1.000 µg/mL

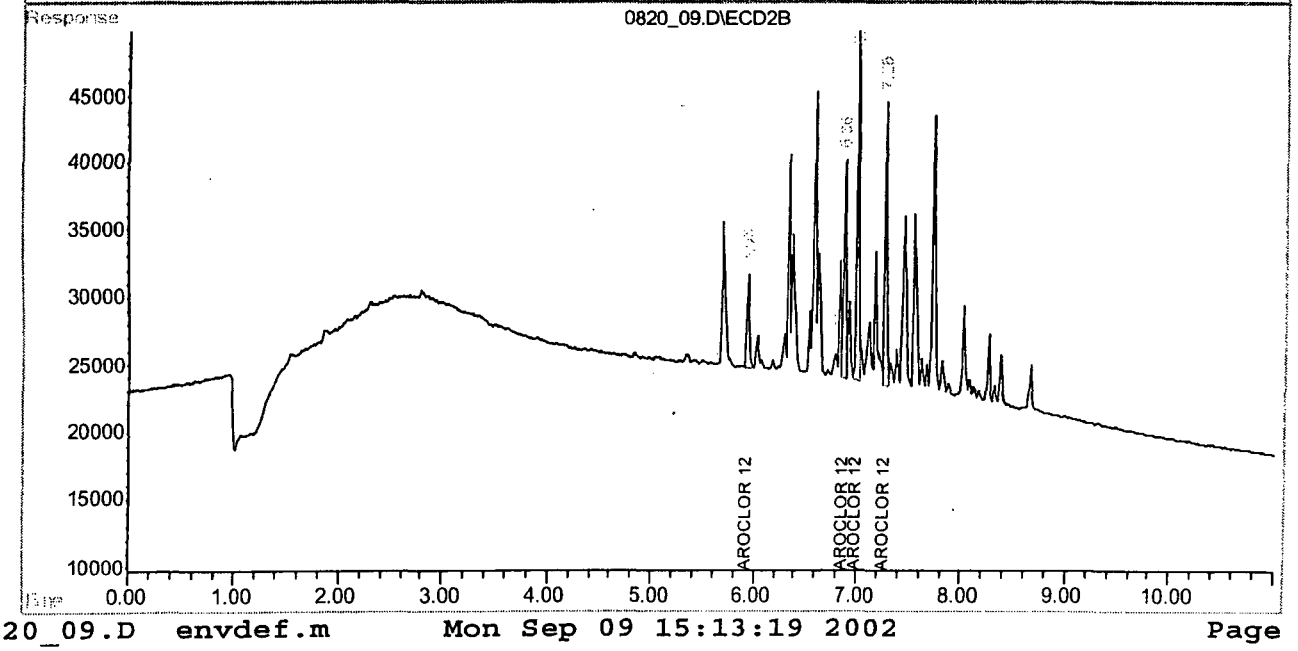
Quantitation Report (QT Reviewed)

Signal #1 : D:\DATA\SVGC#4\082002\0820_09.D\ECD1A.CH Vial: 9
Signal #2 : D:\DATA\SVGC#4\082002\0820_09.D\ECD2B.CH
Acq On : 20 Aug 2002 2:21 pm Operator: 308
Sample : 1254 1ppm Inst : SVGC4
Misc : Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Aug 20 14:41 2002 Quant Results File: 1254K.RES

Quant Method : C:\HPCHEM\2\METHODS\1254K.M (Chemstation Integrator)
Title :
Last Update : Tue Aug 20 14:41:18 2002
Response via : Multiple Level Calibration
DataAcq Meth : PCB20819.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Signal #1 : D:\DATA\SVGC#4\082002\0820_10.D\ECD1A.CH Vial: 2
Signal #2 : D:\DATA\SVGC#4\082002\0820_10.D\ECD2B.CH
Acq On : 20 Aug 2002 2:35 pm Operator: 308
Sample : 1016/1260 .50ppm Inst : SVGC4
Misc : BS030104K30 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Aug 20 15:28 2002 Quant Results File: PCB20820.RES

Quant Method : C:\HPCHEM\2\METHODS\PCB20820.M (Chemstation Integrator)
Title :
Last Update : Tue Aug 20 14:16:51 2002
Response via : Initial Calibration
DataAcq Meth : PCB20819.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) s TCMX	4.11	935958	0.100 µg/mL
Spiked Amount 0.200	Range 41 - 145	Recovery =	50.00%
10) s DCB	10.61	935897	0.100 µg/mL
Spiked Amount 0.200	Range 39 - 137	Recovery =	50.00%
12) s TCMX #2	3.96	898714	0.099 µg/mL
Spiked Amount 0.200	Range 41 - 145	Recovery =	49.50%
21) s dcb #2	9.88	788893	0.090 µg/mL
Spiked Amount 0.200	Range 39 - 137	Recovery =	45.00%
Target Compounds			
2) m,t AROCLOR 1016(1)	4.69	97930	0.502 µg/mLm
3) m,t AROCLOR 1016(2)	5.41	74580	0.502 µg/mL
4) m,t AROCLOR 1016(3)	5.77	178562	0.562 µg/mL
5) m,t AROCLOR 1016(4)	5.97	91163	0.500 µg/mL
6) m,t AROCLOR 1260(1)	7.64	62996	0.537 µg/mLm
7) m,t AROCLOR 1260(2)	7.70	330427	0.542 µg/mL
8) m,t AROCLOR 1260(3)	8.51	120424	0.515 µg/mLm
9) m,t AROCLOR 1260(4)	8.67	480480	0.534 µg/mL
13) m,t AROCLOR 1016(1) #2	4.40	79399	0.496 µg/mL
14) m,t AROCLOR 1016(2) #2	5.55	89933	0.532 µg/mL
15) m,t AROCLOR 1016(3) #2	6.01	55715	0.550 µg/mL
16) m,t AROCLOR 1016(4) #2	6.57	87600	0.549 µg/mL
17) m,t AROCLOR 1260(1) #2	7.15	175399	0.589 µg/mL
18) m,t AROCLOR 1260(2) #2	7.42	282474	0.528 µg/mL
19) m,t AROCLOR 1260(3) #2	7.70	307261	0.501 µg/mL
20) m,t AROCLOR 1260(4) #2	8.35	338812	0.501 µg/mL

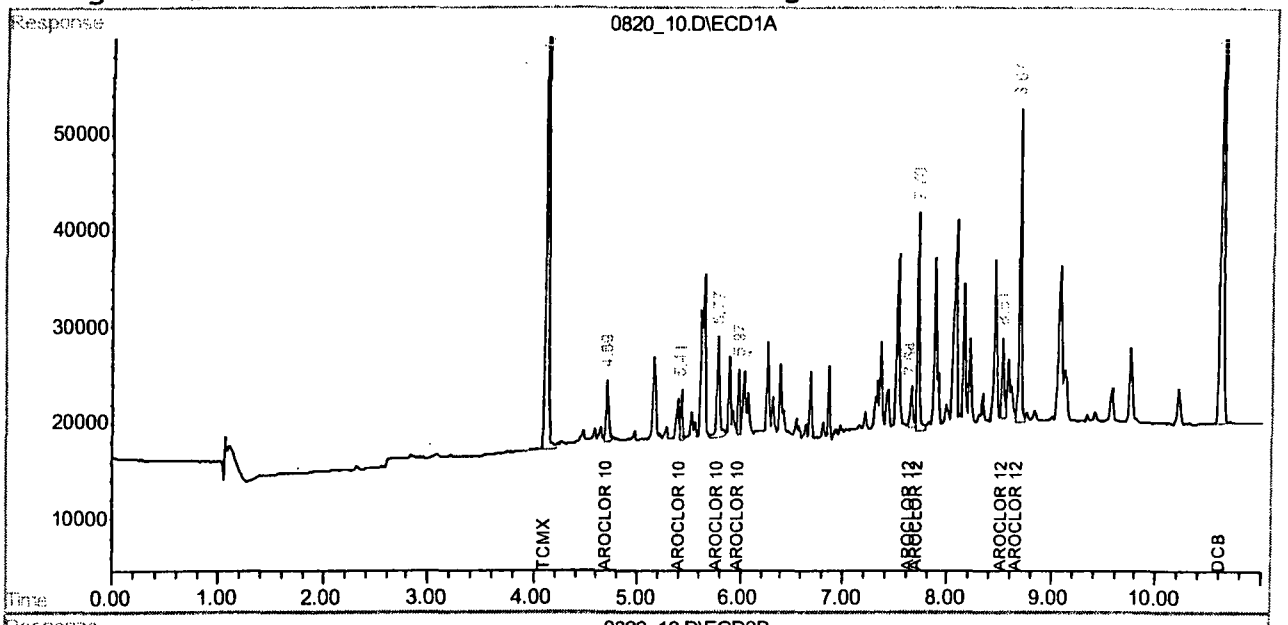
(f)=RT Delta > 1/2 Window (m)=manual int.
0820_10.D envdef.m Mon Sep 09 15:13:41 2002 Page 1

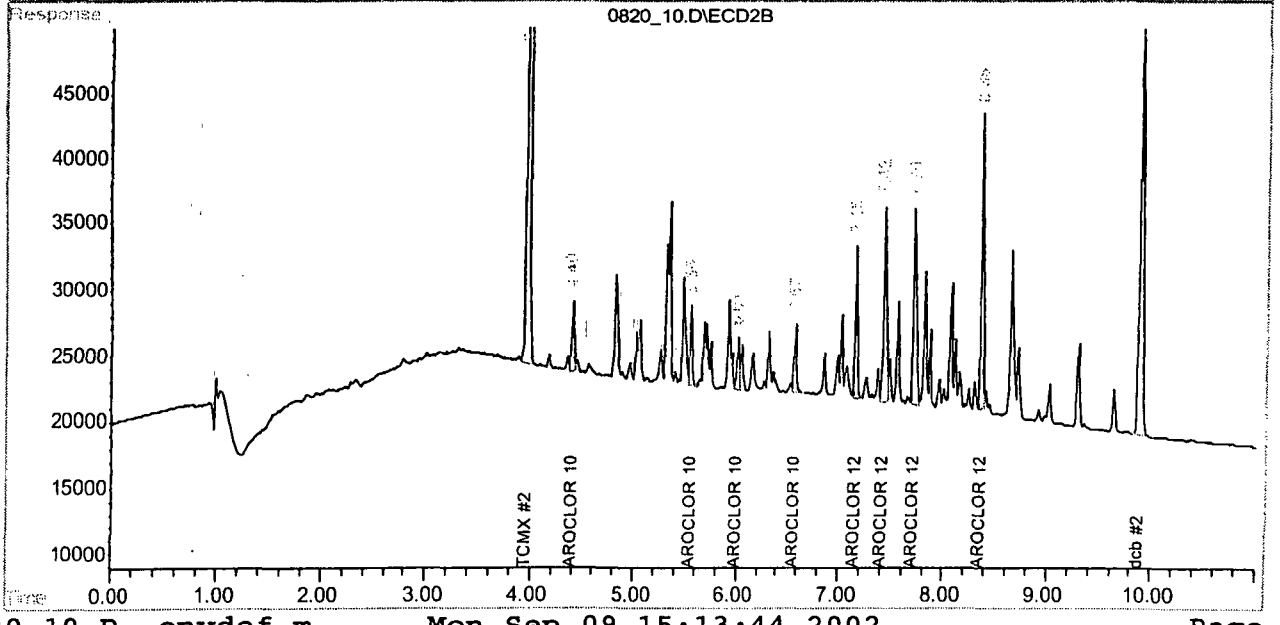
Quantitation Report (QT Reviewed)

Signal #1 : D:\DATA\SVGC#4\082002\0820_10.D\ECD1A.CH Vial: 2
Signal #2 : D:\DATA\SVGC#4\082002\0820_10.D\ECD2B.CH
Acq On : 20 Aug 2002 2:35 pm Operator: 308
Sample : 1016/1260 .50ppm Inst : SVGC4
Misc : BS030104K30 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Aug 20 15:28 2002 Quant Results File: PCB20820.RES

Quant Method : C:\HPCHEM\2\METHODS\PCB20820.M (Chemstation Integrator)
Title :
Last Update : Tue Aug 20 14:16:51 2002
Response via : Multiple Level Calibration
DataAcq Meth : PCB20819.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





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Quantitation Report (QT Reviewed)

Signal #1 : D:\DATA\SVGC#4\082002\0820_11.D\ECD1A.CH Vial: 3
Signal #2 : D:\DATA\SVGC#4\082002\0820_11.D\ECD2B.CH
Acq On : 20 Aug 2002 2:50 pm Operator: 308
Sample : Blank 1x WG81072 1000-10 Inst : SVGC4
Misc : surr ESC8081 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Aug 20 15:29 2002 Quant Results File: PCB20820.RES

Quant Method : C:\HPCHEM\2\METHODS\PCB20820.M (Chemstation Integrator)
Title :
Last Update : Tue Aug 20 14:16:51 2002
Response via : Initial Calibration
DataAcq Meth : PCB20819.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound			R.T.	Response		Conc Units
System Monitoring Compounds						
1) s TCMX			4.11	1445416		0.154 µg/mL
Spiked Amount	0.200	Range	41 - 145	Recovery	=	77.00%
10) s DCB			10.60	1621243		0.172 µg/mL
Spiked Amount	0.200	Range	39 - 137	Recovery	=	86.00%
12) s TCMX #2			3.96	1458367		0.160 µg/mL
Spiked Amount	0.200	Range	41 - 145	Recovery	=	80.00%
21) s dcb #2			9.88	1513615		0.172 µg/mL
Spiked Amount	0.200	Range	39 - 137	Recovery	=	86.00%
Target Compounds						
2) m,t AROCLOR 1016(1)			4.69	39875		0.204 µg/mL
3) m,t AROCLOR 1016(2)			5.47f	28461		0.192 µg/mL
4) m,t AROCLOR 1016(3)			5.76	9257		0.029 µg/mL
5) m,t AROCLOR 1016(4)			5.96	49175		0.270 µg/mL
6) m,t AROCLOR 1260(1)			0.00	0		N.D. µg/mL
7) m,t AROCLOR 1260(2)			7.77f	79796		0.131 µg/mL
8) m,t AROCLOR 1260(3)			8.42f	7436		0.032 µg/mL
9) m,t AROCLOR 1260(4)			8.61f	33016		0.037 µg/mL
13) m,t AROCLOR 1016(1) #2			4.44	27107		0.169 µg/mL
14) m,t AROCLOR 1016(2) #2			0.00	0		N.D. µg/mL
15) m,t AROCLOR 1016(3) #2			0.00	0		N.D. µg/mL
16) m,t AROCLOR 1016(4) #2			0.00	0		N.D. µg/mL
17) m,t AROCLOR 1260(1) #2			0.00	0		N.D. µg/mL
18) m,t AROCLOR 1260(2) #2			0.00	0		N.D. µg/mL
19) m,t AROCLOR 1260(3) #2			0.00	0		N.D. µg/mL
20) m,t AROCLOR 1260(4) #2			0.00	0		N.D. µg/mL

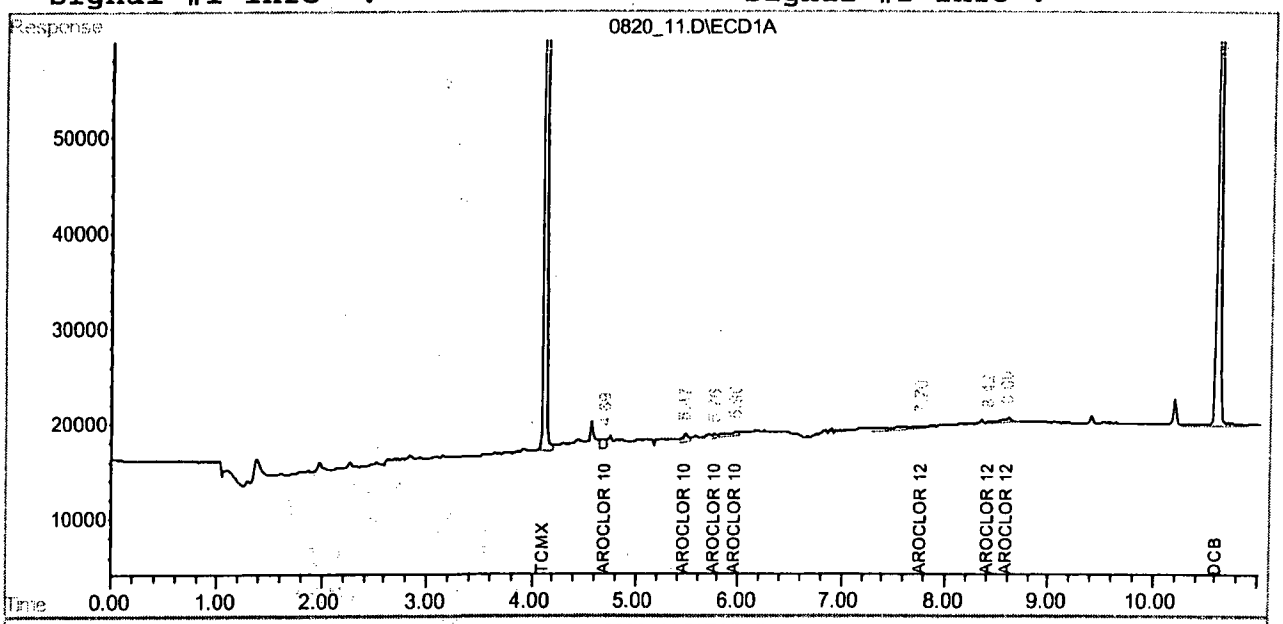
(f)=RT Delta > 1/2 Window (m)=manual int.
0820_11.D envdef.m Mon Sep 09 15:13:55 2002 Page 1

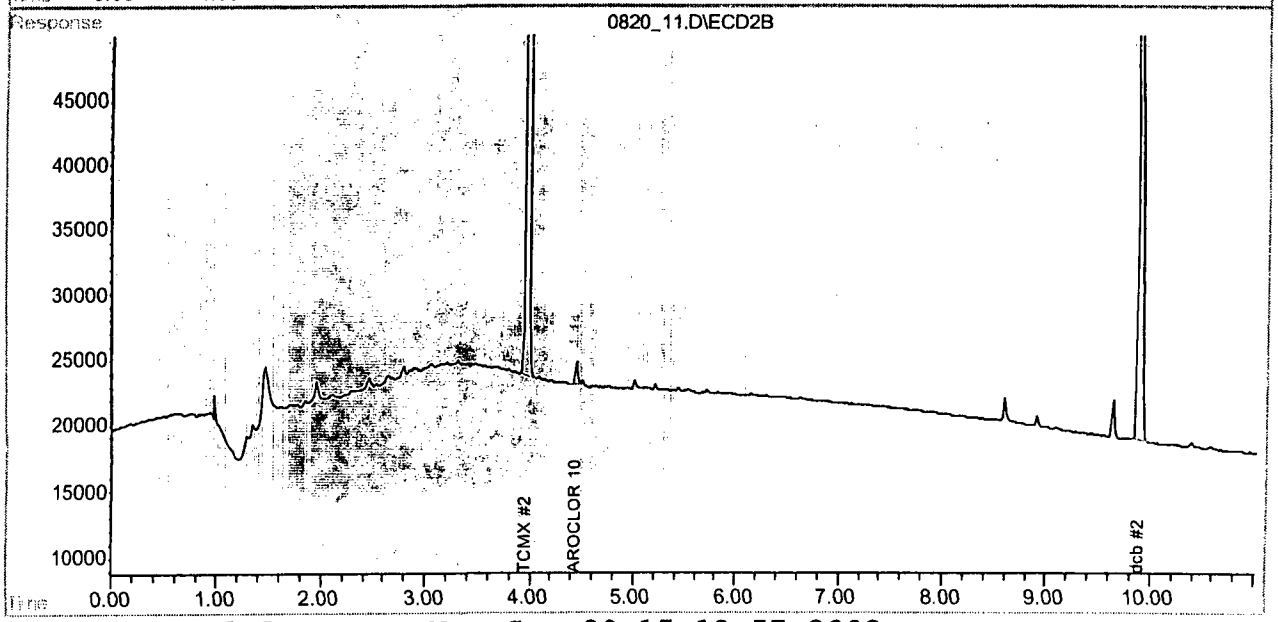
Quantitation Report (QT Reviewed)

Signal #1 : D:\DATA\SVGC#4\082002\0820_11.D\ECD1A.CH Vial: 3
Signal #2 : D:\DATA\SVGC#4\082002\0820_11.D\ECD2B.CH
Acq On : 20 Aug 2002 2:50 pm Operator: 308
Sample : Blank 1x WG81072 1000-10 Inst : SVGC4
Misc : surr ESC8081 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Aug 20 15:29 2002 Quant Results File: PCB20820.RES

Quant Method : C:\HPCHEM\2\METHODS\PCB20820.M (Chemstation Integrator)
Title :
Last Update : Tue Aug 20 14:16:51 2002
Response via : Multiple Level Calibration
DataAcq Meth : PCB20819.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Signal #1 : D:\DATA\SVGC#4\082002\0820_12.D\ECD1A.CH Vial: 4
Signal #2 : D:\DATA\SVGC#4\082002\0820_12.D\ECD2B.CH
Acq On : 20 Aug 2002 3:04 pm Operator: 308
Sample : LCS 1x WG81072 1000-10 Inst : SVGC4
Misc : spk ESC7740 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Aug 20 15:29 2002 Quant Results File: PCB20820.RES

Quant Method : C:\HPCHEM\2\METHODS\PCB20820.M (Chemstation Integrator)
Title :
Last Update : Tue Aug 20 14:16:51 2002
Response via : Initial Calibration
DataAcq Meth : PCB20819.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

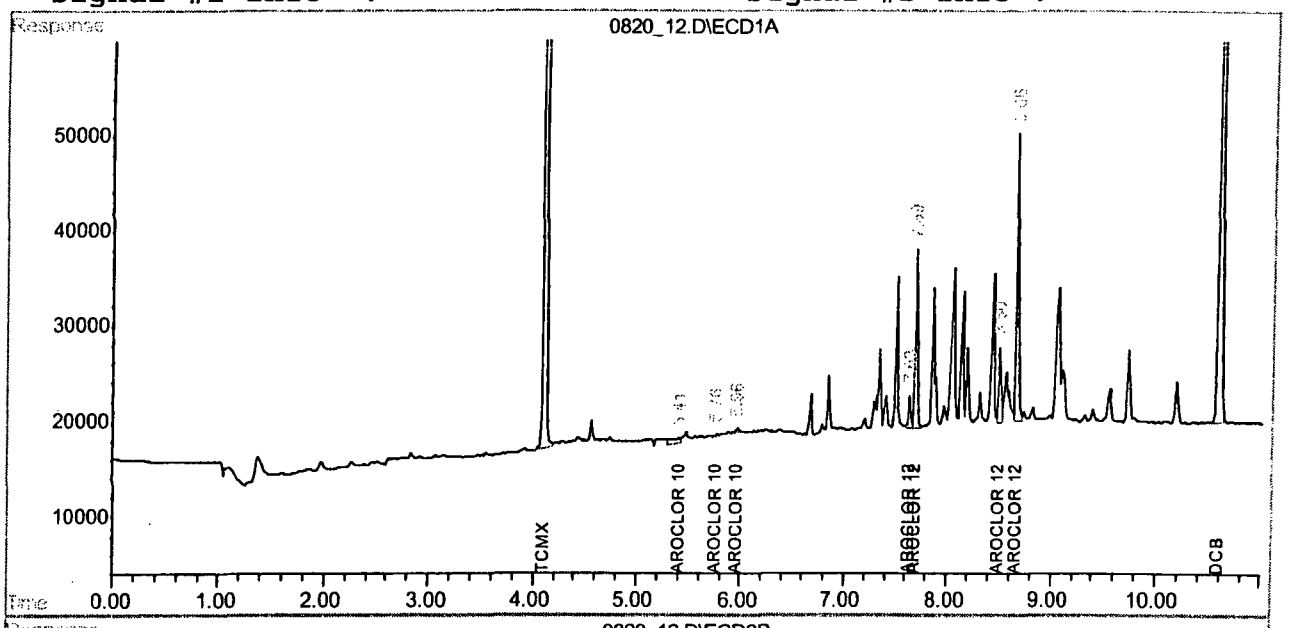
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) s TCMX	4.10	1501081	0.160 µg/mL
Spiked Amount 0.200	Range 41 - 145	Recovery =	80.00%
10) s DCB	10.59	1604431	0.171 µg/mL
Spiked Amount 0.200	Range 39 - 137	Recovery =	85.50%
12) s TCMX #2	3.96	1653186	0.182 µg/mL
Spiked Amount 0.200	Range 41 - 145	Recovery =	91.00%
21) s dcb #2	9.88	1974133	0.225 µg/mL
Spiked Amount 0.200	Range 39 - 137	Recovery =	112.50%
Target Compounds			
2) m,t AROCLOR 1016(1)	0.00	0	N.D. µg/mL
3) m,t AROCLOR 1016(2)	5.41	36480	0.246 µg/mL
4) m,t AROCLOR 1016(3)	5.76	5544	0.017 µg/mL
5) m,t AROCLOR 1016(4)	5.97	7711	0.042 µg/mL
6) m,t AROCLOR 1260(1)	7.63	54427	0.464 µg/mL
7) m,t AROCLOR 1260(2)	7.69	254369	0.417 µg/mL
8) m,t AROCLOR 1260(3)	8.50	122756	0.525 µg/mL
9) m,t AROCLOR 1260(4)	8.66	440487	0.489 µg/mL
13) m,t AROCLOR 1016(1) #2	4.44	28780	0.180 µg/mL
14) m,t AROCLOR 1016(2) #2	0.00	0	N.D. µg/mL
15) m,t AROCLOR 1016(3) #2	0.00	0	N.D. µg/mL
16) m,t AROCLOR 1016(4) #2	6.56	60832	0.381 µg/mL
17) m,t AROCLOR 1260(1) #2	7.15	159355	0.530 µg/mL
18) m,t AROCLOR 1260(2) #2	7.42	250278	0.467 µg/mL
19) m,t AROCLOR 1260(3) #2	7.70	262817	0.428 µg/mL
20) m,t AROCLOR 1260(4) #2	8.35	338851	0.501 µg/mL

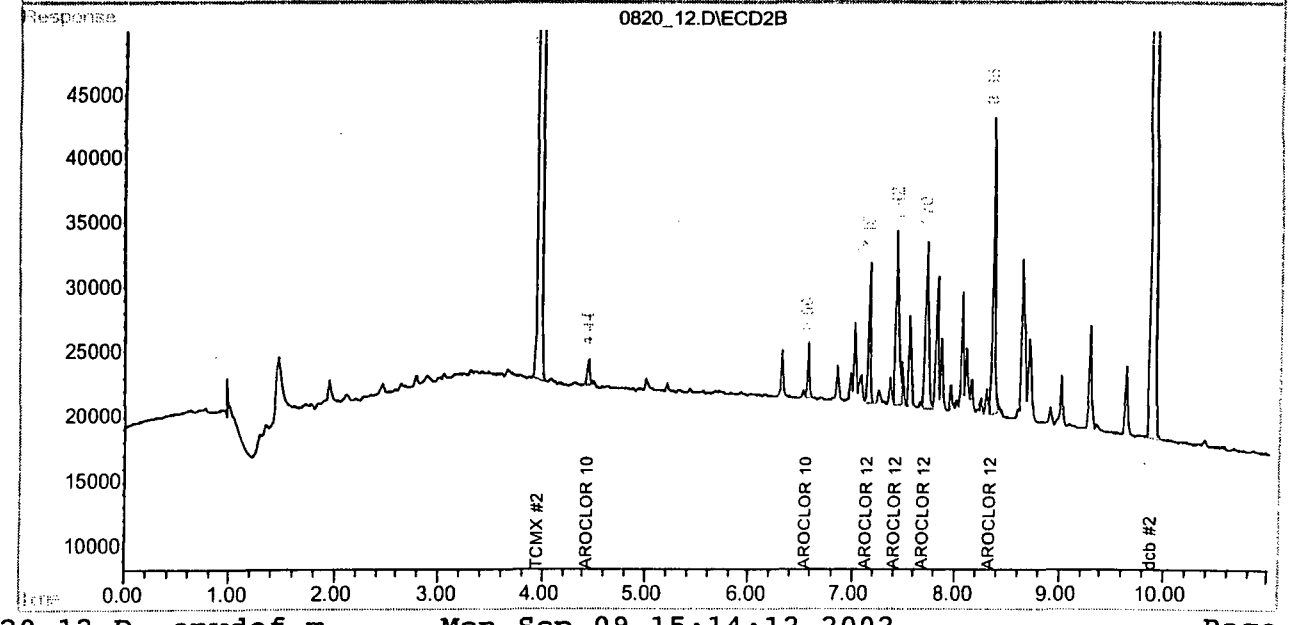
Quantitation Report (QT Reviewed)

Signal #1 : D:\DATA\SVGC#4\082002\0820_12.D\ECD1A.CH Vial: 4
Signal #2 : D:\DATA\SVGC#4\082002\0820_12.D\ECD2B.CH
Acq On : 20 Aug 2002 3:04 pm Operator: 308
Sample : LCS 1x WG81072 1000-10 Inst : SVGC4
Misc : spk ESC7740 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Aug 20 15:29 2002 Quant Results File: PCB20820.RES

Quant Method : C:\HPCHEM\2\METHODS\PCB20820.M (Chemstation Integrator)
Title :
Last Update : Tue Aug 20 14:16:51 2002
Response via : Multiple Level Calibration
DataAcq Meth : PCB20819.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Signal #1 : D:\DATA\SVGC#4\082002\0820_13.D\ECD1A.CH Vial: 5
Signal #2 : D:\DATA\SVGC#4\082002\0820_13.D\ECD2B.CH
Acq On : 20 Aug 2002 3:18 pm Operator: 308
Sample : LCSD 1x WG81072 1000-10 Inst : SVGC4
Misc : spk ESC7740 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Aug 20 15:30 2002 Quant Results File: PCB20820.RES

Quant Method : C:\HPCHEM\2\METHODS\PCB20820.M (Chemstation Integrator)
Title :
Last Update : Tue Aug 20 14:16:51 2002
Response via : Initial Calibration
DataAcq Meth : PCB20819.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

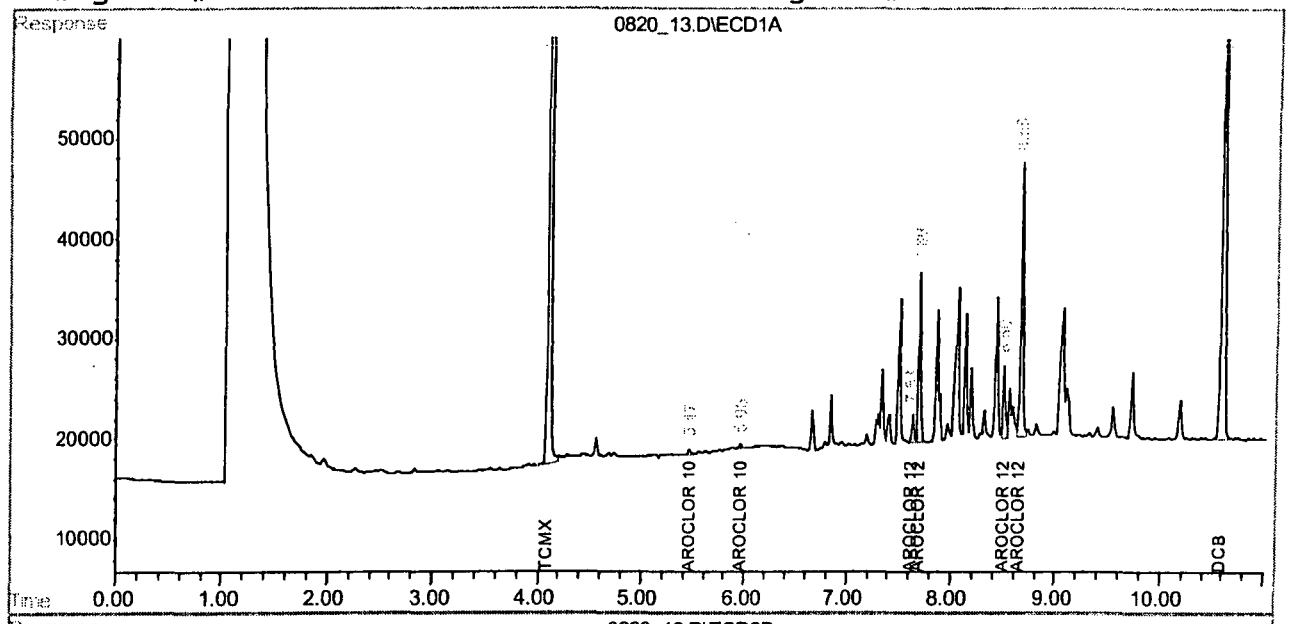
Compound			R.T.	Response		Conc Units
System Monitoring Compounds						
1) s TCMX			4.10	1378185		0.147 µg/mL
Spiked Amount	0.200	Range	41 - 145	Recovery	=	73.50%
10) s DCB			10.59	1420732		0.151 µg/mL
Spiked Amount	0.200	Range	39 - 137	Recovery	=	75.50%
12) s TCMX #2			3.96	1479214		0.163 µg/mL
Spiked Amount	0.200	Range	41 - 145	Recovery	=	81.50%
21) s dcb #2			9.88	1847226		0.210 µg/mL
Spiked Amount	0.200	Range	39 - 137	Recovery	=	105.00%
Target Compounds						
2) m,t AROCLOR 1016(1)			0.00	0		N.D. µg/mL
3) m,t AROCLOR 1016(2)			5.47f	6961		0.047 µg/mL
4) m,t AROCLOR 1016(3)			0.00	0		N.D. µg/mL
5) m,t AROCLOR 1016(4)			5.96	5548		0.030 µg/mL
6) m,t AROCLOR 1260(1)			7.63	41505		0.354 µg/mL
7) m,t AROCLOR 1260(2)			7.69	224299		0.368 µg/mL
8) m,t AROCLOR 1260(3)			8.50	111363		0.476 µg/mL
9) m,t AROCLOR 1260(4)			8.66	404170		0.449 µg/mL
13) m,t AROCLOR 1016(1) #2			4.44	30364		0.190 µg/mL
14) m,t AROCLOR 1016(2) #2			0.00	0		N.D. µg/mL
15) m,t AROCLOR 1016(3) #2			0.00	0		N.D. µg/mL
16) m,t AROCLOR 1016(4) #2			6.56	55430		0.347 µg/mL
17) m,t AROCLOR 1260(1) #2			7.15	149524		0.494 µg/mL
18) m,t AROCLOR 1260(2) #2			7.41	235816		0.440 µg/mL
19) m,t AROCLOR 1260(3) #2			7.70	253585		0.413 µg/mL
20) m,t AROCLOR 1260(4) #2			8.34	303684		0.449 µg/mL

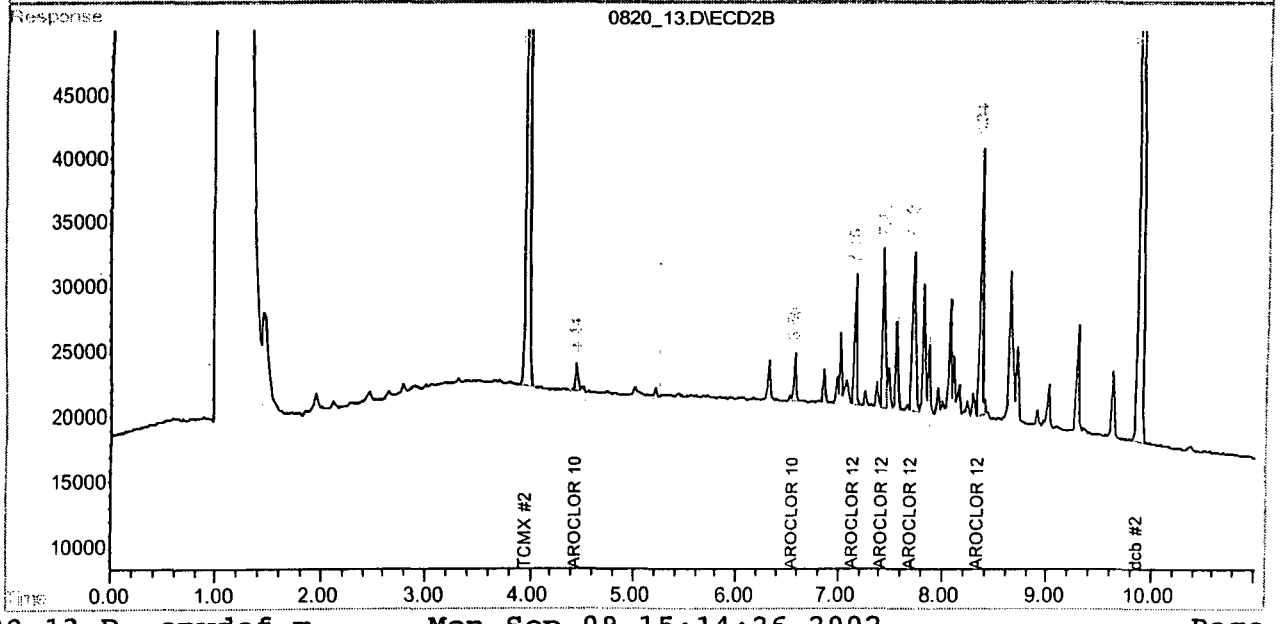
Quantitation Report (QT Reviewed)

Signal #1 : D:\DATA\SVGC#4\082002\0820_13.D\ECD1A.CH Vial: 5
Signal #2 : D:\DATA\SVGC#4\082002\0820_13.D\ECD2B.CH
Acq On : 20 Aug 2002 3:18 pm Operator: 308
Sample : LCSD 1x WG81072 1000-10 Inst : SVGC4
Misc : spk ESC7740 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Aug 20 15:30 2002 Quant Results File: PCB20820.RES

Quant Method : C:\HPCHEM\2\METHODS\PCB20820.M (Chemstation Integrator)
Title :
Last Update : Tue Aug 20 14:16:51 2002
Response via : Multiple Level Calibration
DataAcq Meth : PCB20819.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Signal #1 : D:\DATA\SVGC#4\082002\0820_14.D\ECD1A.CH Vial: 6
Signal #2 : D:\DATA\SVGC#4\082002\0820_14.D\ECD2B.CH
Acq On : 20 Aug 2002 3:32 pm Operator: 308
Sample : L86833-01 1x WG81072 1000-10 Inst : SVGC4
Misc : Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Aug 20 15:52 2002 Quant Results File: PCB20820.RES

Quant Method : C:\HPCHEM\2\METHODS\PCB20820.M (Chemstation Integrator)
Title :
Last Update : Tue Aug 20 14:16:51 2002
Response via : Initial Calibration
DataAcq Meth : PCB20819.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) s TCMX	4.10	1576144	0.168 µg/mL
Spiked Amount 0.200	Range 41 - 145	Recovery =	84.00%
10) s DCB	10.58	1500356	0.160 µg/mL
Spiked Amount 0.200	Range 39 - 137	Recovery =	80.00%
12) s TCMX #2	3.96	1588993	0.175 µg/mL
Spiked Amount 0.200	Range 41 - 145	Recovery =	87.50%
21) s dcb #2	9.88	2124277	0.242 µg/mL
Spiked Amount 0.200	Range 39 - 137	Recovery =	121.00%
Target Compounds			
2) m,t AROCLOR 1016(1)	4.68	11797	0.060 µg/mL
3) m,t AROCLOR 1016(2)	5.47f	52520	0.353 µg/mL
4) m,t AROCLOR 1016(3)	5.75	15126	0.048 µg/mL
5) m,t AROCLOR 1016(4)	6.01	18105	0.099 µg/mL
6) m,t AROCLOR 1260(1)	7.73f	6132	0.052 µg/mL
7) m,t AROCLOR 1260(2)	7.73	6132	0.010 µg/mL
8) m,t AROCLOR 1260(3)	0.00	0	N.D. µg/mL
9) m,t AROCLOR 1260(4)	0.00	0	N.D. µg/mL
13) m,t AROCLOR 1016(1) #2	4.38	44374	0.277 µg/mL
14) m,t AROCLOR 1016(2) #2	0.00	0	N.D. µg/mL
15) m,t AROCLOR 1016(3) #2	0.00	0	N.D. µg/mL
16) m,t AROCLOR 1016(4) #2	6.62	23322	0.146 µg/mL
17) m,t AROCLOR 1260(1) #2	7.11	8461	N.D. µg/mL
18) m,t AROCLOR 1260(2) #2	0.00	0	N.D. µg/mL
19) m,t AROCLOR 1260(3) #2	0.00	0	N.D. µg/mL
20) m,t AROCLOR 1260(4) #2	0.00	0	N.D. µg/mL

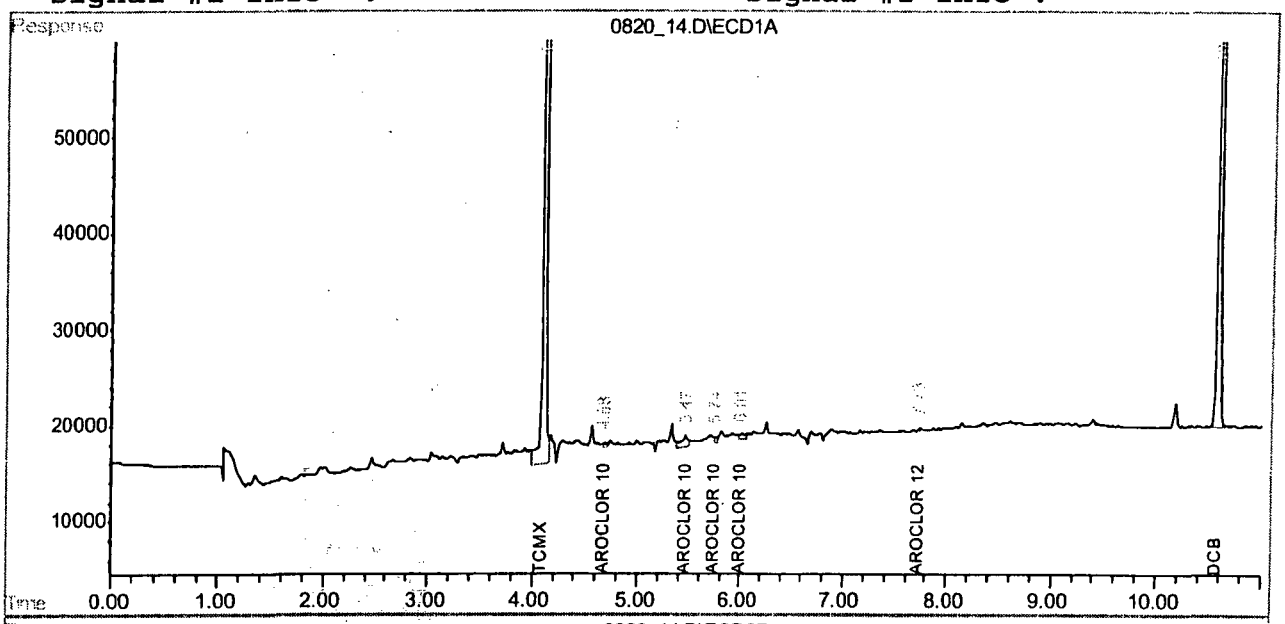
(f)=RT Delta > 1/2 Window (m)=manual int.

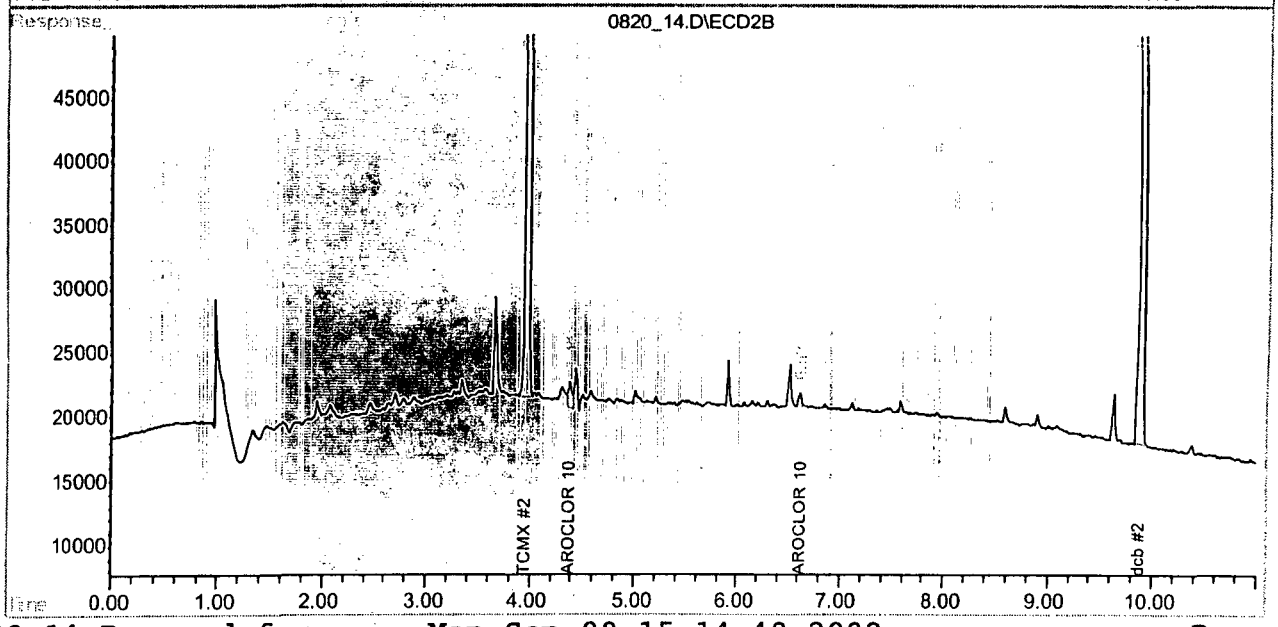
Quantitation Report (QT Reviewed)

Signal #1 : D:\DATA\SVGC#4\082002\0820_14.D\ECD1A.CH Vial: 6
Signal #2 : D:\DATA\SVGC#4\082002\0820_14.D\ECD2B.CH
Acq On : 20 Aug 2002 3:32 pm Operator: 308
Sample : L86833-01 1x WG81072 1000-10 Inst : SVGC4
Misc : Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Aug 20 15:52 2002 Quant Results File: PCB20820.RES

Quant Method : C:\HPCHEM\2\METHODS\PCB20820.M (Chemstation Integrator)
Title :
Last Update : Tue Aug 20 14:16:51 2002
Response via : Multiple Level Calibration
DataAcq Meth : PCB20819.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





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Quantitation Report (QT Reviewed)

Signal #1 : D:\DATA\SVGC#4\082002\0820_15.D\ECD1A.CH Vial: 2
Signal #2 : D:\DATA\SVGC#4\082002\0820_15.D\ECD2B.CH
Acq On : 20 Aug 2002 3:47 pm Operator: 308
Sample : 1016/1260 .50ppm Inst : SVGC4
Misc : BS030104K30 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Aug 20 16:07 2002 Quant Results File: PCB20820.RES

Quant Method : C:\HPCHEM\2\METHODS\PCB20820.M (Chemstation Integrator)
Title :
Last Update : Tue Aug 20 14:16:51 2002
Response via : Initial Calibration
DataAcq Meth : PCB20819.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

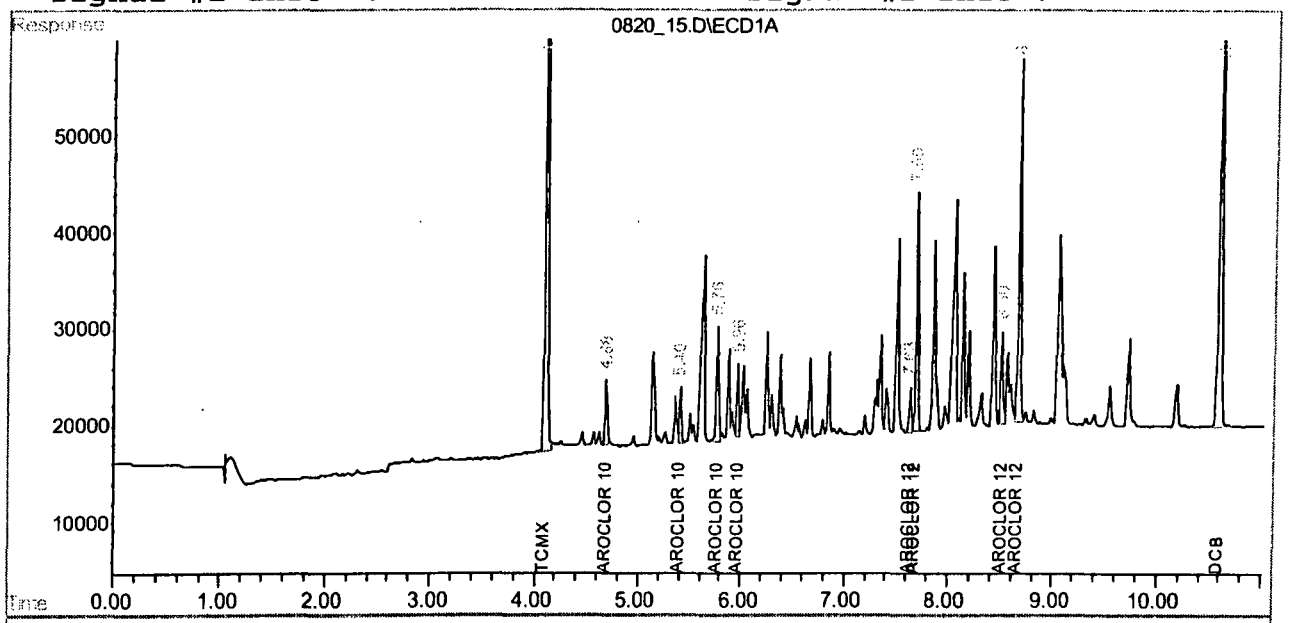
Compound			R.T.	Response		Conc Units
System Monitoring Compounds						
1) s TCMX			4.10	1056475		0.113 µg/mL
Spiked Amount	0.200	Range	41 - 145	Recovery	=	56.50%
10) s DCB			10.58	1052194		0.112 µg/mL
Spiked Amount	0.200	Range	39 - 137	Recovery	=	56.00%
12) s TCMX #2			3.96	1204124		0.132 µg/mL
Spiked Amount	0.200	Range	41 - 145	Recovery	=	66.00%
21) s dcb #2			9.88	1640894		0.187 µg/mL
Spiked Amount	0.200	Range	39 - 137	Recovery	=	93.50%
Target Compounds						
2) m,t AROCLOR 1016(1)			4.68	86814		0.445 µg/mL
3) m,t AROCLOR 1016(2)			5.40	78712		0.530 µg/mL
4) m,t AROCLOR 1016(3)			5.76	184983		0.583 µg/mL
5) m,t AROCLOR 1016(4)			5.96	93092		0.510 µg/mLm
6) m,t AROCLOR 1260(1)			7.63	69611		0.593 µg/mLm
7) m,t AROCLOR 1260(2)			7.69	322300		0.529 µg/mLm
8) m,t AROCLOR 1260(3)			8.50	135466		0.579 µg/mLm
9) m,t AROCLOR 1260(4)			8.66	542497		0.603 µg/mLm
13) m,t AROCLOR 1016(1) #2			4.40	106635		0.667 µg/mL
14) m,t AROCLOR 1016(2) #2			5.54	120119		0.710 µg/mL
15) m,t AROCLOR 1016(3) #2			6.00	75014		0.740 µg/mL
16) m,t AROCLOR 1016(4) #2			6.56	118867		0.745 µg/mL
17) m,t AROCLOR 1260(1) #2			7.15	226412		0.774 µg/mL
18) m,t AROCLOR 1260(2) #2			7.41	364029		0.680 µg/mL
19) m,t AROCLOR 1260(3) #2			7.70	407626		0.664 µg/mL
20) m,t AROCLOR 1260(4) #2			8.35	474606		0.701 µg/mL

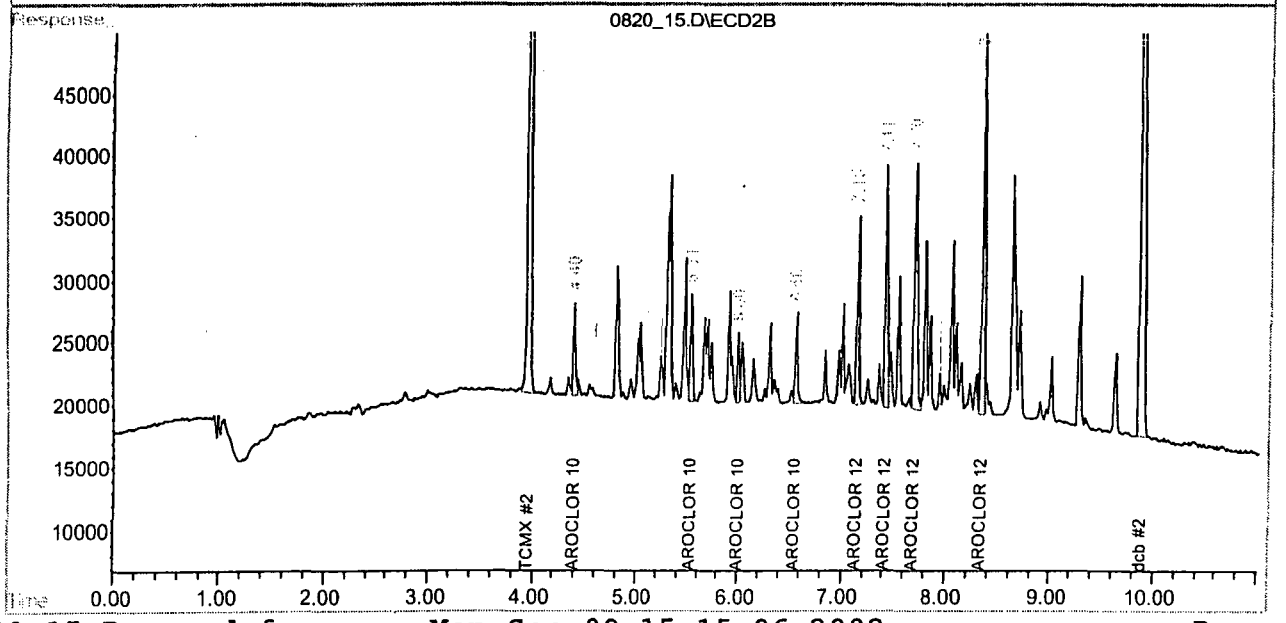
Quantitation Report (QT Reviewed)

Signal #1 : D:\DATA\SVGC#4\082002\0820_15.D\ECD1A.CH Vial: 2
Signal #2 : D:\DATA\SVGC#4\082002\0820_15.D\ECD2B.CH
Acq On : 20 Aug 2002 3:47 pm Operator: 308
Sample : 1016/1260 .50ppm Inst : SVGC4
Misc : BS030104K30 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Aug 20 16:07 2002 Quant Results File: PCB20820.RES

Quant Method : C:\HPCHEM\2\METHODS\PCB20820.M (Chemstation Integrator)
Title :
Last Update : Tue Aug 20 14:16:51 2002
Response via : Multiple Level Calibration
DataAcq Meth : PCB20819.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Signal #1 : D:\DATA\SVGC#4\082002\0820_16.D\ECD1A.CH Vial: 7
Signal #2 : D:\DATA\SVGC#4\082002\0820_16.D\ECD2B.CH
Acq On : 20 Aug 2002 4:01 pm Operator: 308
Sample : Blank 1x WG81049 15-5 Inst : SVGC4
Misc : surr ESC8081 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Aug 20 16:12 2002 Quant Results File: PCB20820.RES

Quant Method : C:\HPCHEM\2\METHODS\PCB20820.M (Chemstation Integrator)
Title :
Last Update : Tue Aug 20 14:16:51 2002
Response via : Initial Calibration
DataAcq Meth : PCB20819.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) s TCMX	4.10	1540758	0.165 µg/mL
Spiked Amount 0.200	Range 41 - 145	Recovery =	82.50%
10) s DCB	10.58	1671682	0.178 µg/mL
Spiked Amount 0.200	Range 39 - 137	Recovery =	89.00%
12) s TCMX #2	3.96	1680570	0.185 µg/mL
Spiked Amount 0.200	Range 41 - 145	Recovery =	92.50%
21) s dcb #2	9.88	2619434	0.298 µg/mL
Spiked Amount 0.200	Range 39 - 137	Recovery =	149.00%#
Target Compounds			
2) m,t AROCLOR 1016(1)	0.00	0	N.D. µg/mL
3) m,t AROCLOR 1016(2)	5.47f	39051	0.263 µg/mL
4) m,t AROCLOR 1016(3)	5.80	7131	0.022 µg/mL
5) m,t AROCLOR 1016(4)	5.95	3942	0.022 µg/mL
6) m,t AROCLOR 1260(1)	0.00	0	N.D. µg/mL
7) m,t AROCLOR 1260(2)	0.00	0	N.D. µg/mL
8) m,t AROCLOR 1260(3)	8.52	19692	0.084 µg/mL
9) m,t AROCLOR 1260(4)	8.60f	32343	0.036 µg/mL
13) m,t AROCLOR 1016(1) #2	4.40	5032	0.031 µg/mL
14) m,t AROCLOR 1016(2) #2	5.51	10959	0.065 µg/mL
15) m,t AROCLOR 1016(3) #2	0.00	0	N.D. µg/mL
16) m,t AROCLOR 1016(4) #2	6.60	25997	0.163 µg/mL
17) m,t AROCLOR 1260(1) #2	0.00	0	N.D. µg/mL
18) m,t AROCLOR 1260(2) #2	0.00	0	N.D. µg/mL
19) m,t AROCLOR 1260(3) #2	0.00	0	N.D. µg/mL
20) m,t AROCLOR 1260(4) #2	0.00	0	N.D. µg/mL

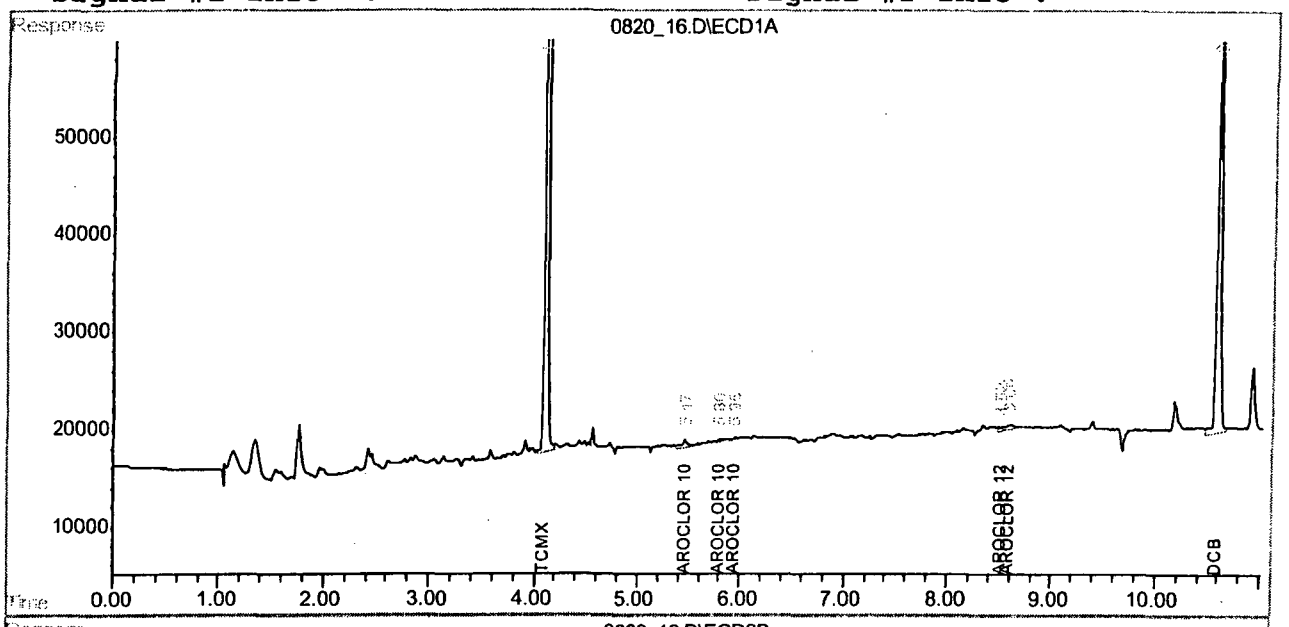
(f)=RT Delta > 1/2 Window (m)=manual int.
0820_16.D envdef.m Mon Sep 09 15:15:23 2002 Page 1

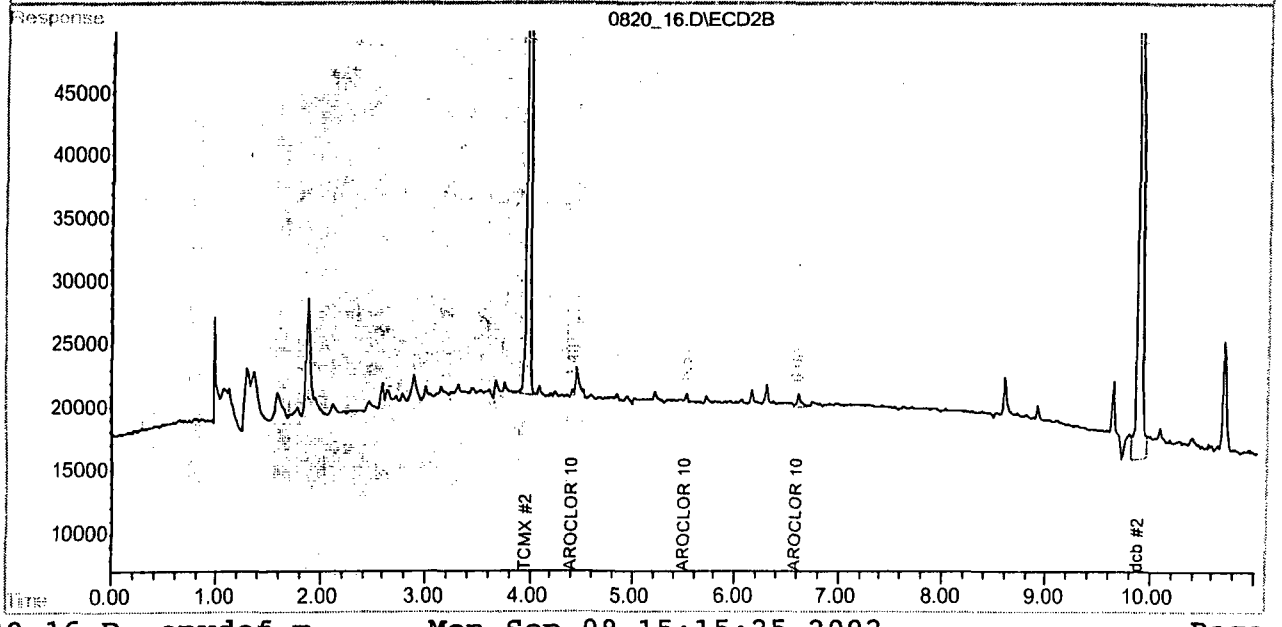
Quantitation Report (QT Reviewed)

Signal #1 : D:\DATA\SVGC#4\082002\0820_16.D\ECD1A.CH Vial: 7
Signal #2 : D:\DATA\SVGC#4\082002\0820_16.D\ECD2B.CH
Acq On : 20 Aug 2002 4:01 pm Operator: 308
Sample : Blank 1x WG81049 15-5 Inst : SVGC4
Misc : surr ESC8081 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Aug 20 16:12 2002 Quant Results File: PCB20820.RES

Quant Method : C:\HPCHEM\2\METHODS\PCB20820.M (Chemstation Integrator)
Title :
Last Update : Tue Aug 20 14:16:51 2002
Response via : Multiple Level Calibration
DataAcq Meth : PCB20819.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Signal #1 : D:\DATA\SVGC#4\082002\0820_17.D\ECD1A.CH Vial: 8
Signal #2 : D:\DATA\SVGC#4\082002\0820_17.D\ECD2B.CH
Acq On : 20 Aug 2002 4:15 pm Operator: 308
Sample : LCS 1x WG81049 15-5 Inst : SVGC4
Misc : spk ESC7719 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Aug 20 16:33 2002 Quant Results File: PCB20820.RES

Quant Method : C:\HPCHEM\2\METHODS\PCB20820.M (Chemstation Integrator)
Title :
Last Update : Tue Aug 20 14:16:51 2002
Response via : Initial Calibration
DataAcq Meth : PCB20819.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) s TCMX	4.09	1702035	0.182 µg/mL
Spiked Amount 0.200 Range 41 - 145		Recovery =	91.00%
10) s DCB	10.58	1776676	0.189 µg/mL
Spiked Amount 0.200 Range 39 - 137		Recovery =	94.50%
12) s TCMX #2	3.96	1918829	0.211 µg/mL
Spiked Amount 0.200 Range 41 - 145		Recovery =	105.50%
21) s dcb #2	9.87	2646061	0.301 µg/mL
Spiked Amount 0.200 Range 39 - 137		Recovery =	150.50%#
Target Compounds			
2) m,t AROCLOR 1016(1)	4.73	11747	0.060 µg/mL
3) m,t AROCLOR 1016(2)	5.46	8742	0.059 µg/mL
4) m,t AROCLOR 1016(3)	5.80	8447	0.027 µg/mL
5) m,t AROCLOR 1016(4)	5.96	14226	0.078 µg/mL
6) m,t AROCLOR 1260(1)	7.63	55951	0.477 µg/mLm
7) m,t AROCLOR 1260(2)	7.69	269352	0.442 µg/mLm
8) m,t AROCLOR 1260(3)	8.50	132475	0.566 µg/mLm
9) m,t AROCLOR 1260(4)	8.66	488560	0.543 µg/mLm
13) m,t AROCLOR 1016(1) #2	4.39	8134	0.051 µg/mL
14) m,t AROCLOR 1016(2) #2	5.51	12550	0.074 µg/mL
15) m,t AROCLOR 1016(3) #2	0.00	0	N.D. µg/mL
16) m,t AROCLOR 1016(4) #2	6.56	68708	0.430 µg/mL
17) m,t AROCLOR 1260(1) #2	7.15	174386	0.585 µg/mL
18) m,t AROCLOR 1260(2) #2	7.41	280773	0.524 µg/mL
19) m,t AROCLOR 1260(3) #2	7.70	314342	0.512 µg/mL
20) m,t AROCLOR 1260(4) #2	8.34	434643	0.642 µg/mL

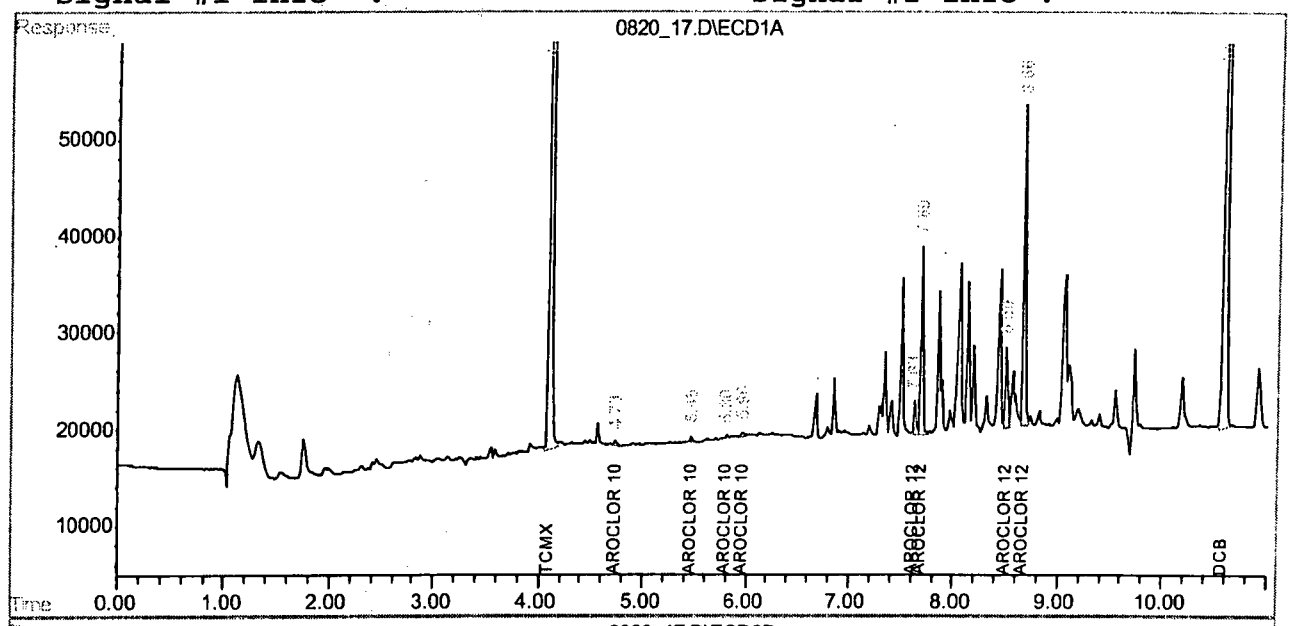
(f)=RT Delta > 1/2 Window (m)=manual int.

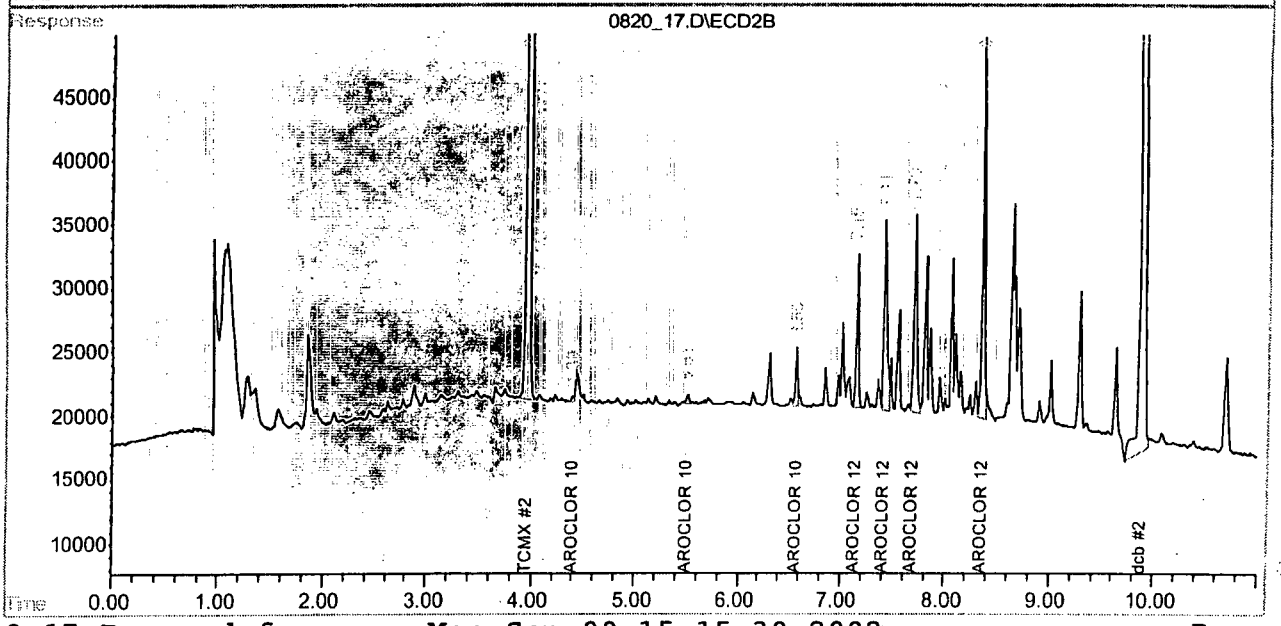
Quantitation Report (QT Reviewed)

Signal #1 : D:\DATA\SVGC#4\082002\0820_17.D\ECD1A.CH Vial: 8
Signal #2 : D:\DATA\SVGC#4\082002\0820_17.D\ECD2B.CH
Acq On : 20 Aug 2002 4:15 pm Operator: 308
Sample : LCS 1x WG81049 15-5 Inst : SVGC4
Misc : spk ESC7719 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Aug 20 16:33 2002 Quant Results File: PCB20820.RES

Quant Method : C:\HPCHEM\2\METHODS\PCB20820.M (Chemstation Integrator)
Title :
Last Update : Tue Aug 20 14:16:51 2002
Response via : Multiple Level Calibration
DataAcq Meth : PCB20819.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Signal #1 : D:\DATA\SVGC#4\082002\0820_18.D\ECD1A.CH Vial: 9
Signal #2 : D:\DATA\SVGC#4\082002\0820_18.D\ECD2B.CH
Acq On : 20 Aug 2002 4:29 pm Operator: 308
Sample : LCSD 1x WG81049 15-5 Inst : SVGC4
Misc : LF 8/20 spk ESC7719 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Aug 20 16:43 2002 Quant Results File: PCB20820.RES

Quant Method : C:\HPCHEM\2\METHODS\PCB20820.M (Chemstation Integrator)
Title :
Last Update : Tue Aug 20 14:16:51 2002
Response via : Initial Calibration
DataAcq Meth : PCB20819.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

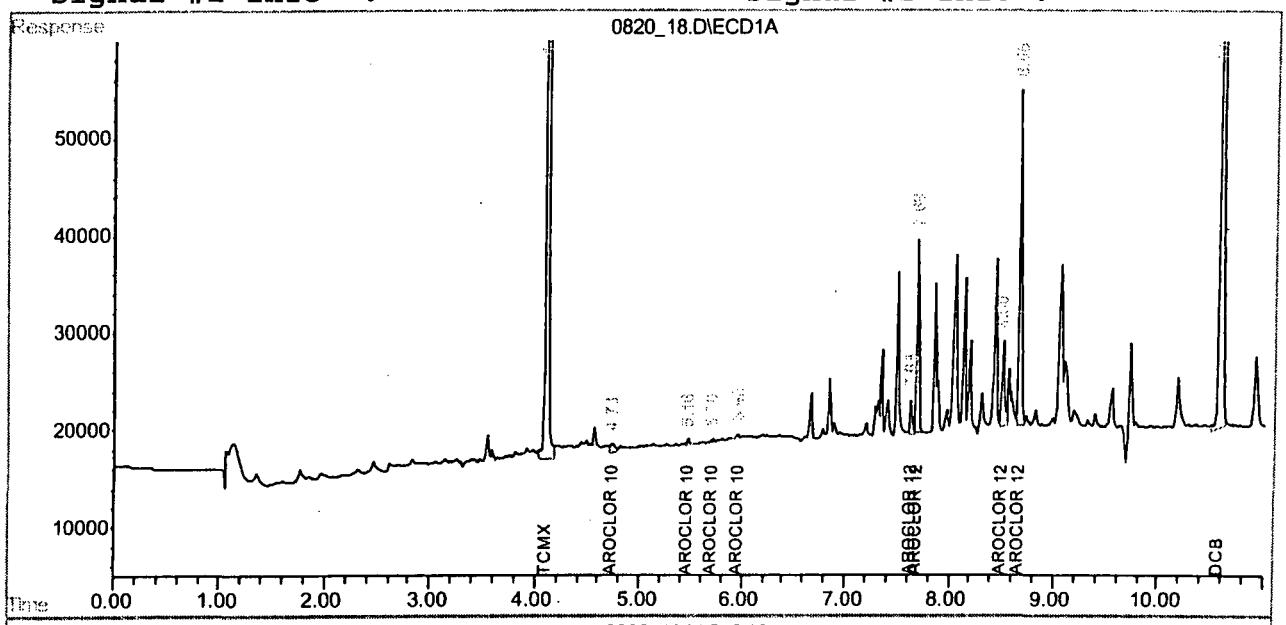
Compound			R.T.	Response		Conc Units
System Monitoring Compounds						
1) s TCMX			4.10	1662015		0.178 µg/mL
Spiked Amount	0.200	Range	41 - 145	Recovery	=	89.00%
10) s DCB			10.58	1753085		0.186 µg/mL
Spiked Amount	0.200	Range	39 - 137	Recovery	=	93.00%
12) s TCMX #2			3.96	1888425		0.208 µg/mL
Spiked Amount	0.200	Range	41 - 145	Recovery	=	104.00%
21) s dcb #2			9.88	2599135		0.296 µg/mL
Spiked Amount	0.200	Range	39 - 137	Recovery	=	148.00%#
Target Compounds						
2) m,t AROCLOR 1016(1)			4.73	28142		0.144 µg/mL
3) m,t AROCLOR 1016(2)			5.47f	11603		0.078 µg/mL
4) m,t AROCLOR 1016(3)			5.70f	6932		0.022 µg/mL
5) m,t AROCLOR 1016(4)			5.96	5139		0.028 µg/mL
6) m,t AROCLOR 1260(1)			7.63	51922		0.442 µg/mLm
7) m,t AROCLOR 1260(2)			7.69	267296		0.439 µg/mLm
8) m,t AROCLOR 1260(3)			8.50	133588		0.571 µg/mLm
9) m,t AROCLOR 1260(4)			8.66	499344		0.555 µg/mLm
13) m,t AROCLOR 1016(1) #2			4.40	12978		0.081 µg/mL
14) m,t AROCLOR 1016(2) #2			0.00	0		N.D. µg/mL
15) m,t AROCLOR 1016(3) #2			0.00	0		N.D. µg/mL
16) m,t AROCLOR 1016(4) #2			6.56	82469		0.517 µg/mL
17) m,t AROCLOR 1260(1) #2			7.15	192844		0.652 µg/mL
18) m,t AROCLOR 1260(2) #2			7.41	304224		0.568 µg/mL
19) m,t AROCLOR 1260(3) #2			7.70	325840		0.531 µg/mL
20) m,t AROCLOR 1260(4) #2			8.35	449065		0.664 µg/mL

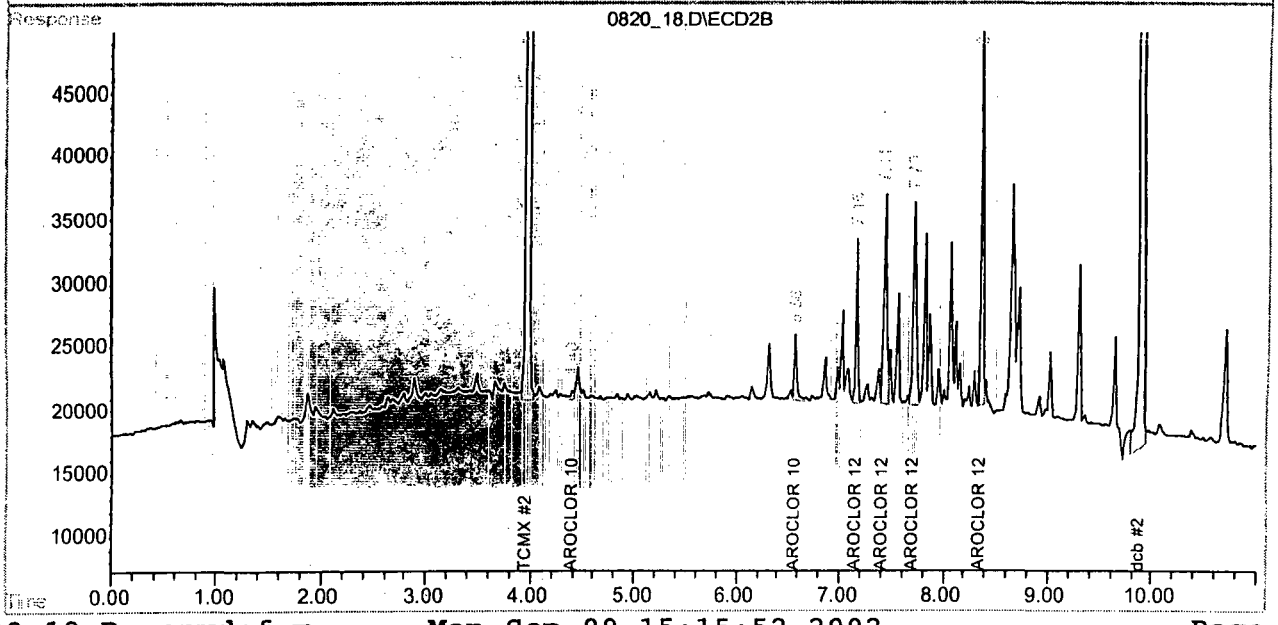
Quantitation Report (QT Reviewed)

Signal #1 : D:\DATA\SVGC#4\082002\0820_18.D\ECD1A.CH Vial: 9
Signal #2 : D:\DATA\SVGC#4\082002\0820_18.D\ECD2B.CH
Acq On : 20 Aug 2002 4:29 pm Operator: 308
Sample : LCSD 1x WG81049 15-5 Inst : SVGC4
Misc : LF 8/20 spk ESC7719 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Aug 20 16:43 2002 Quant Results File: PCB20820.RES

Quant Method : C:\HPCHEM\2\METHODS\PCB20820.M (Chemstation Integrator)
Title :
Last Update : Tue Aug 20 14:16:51 2002
Response via : Multiple Level Calibration
DataAcq Meth : PCB20819.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Signal #1 : D:\DATA\SVGC#4\082002\0820_19.D\ECD1A.CH Vial: 10
Signal #2 : D:\DATA\SVGC#4\082002\0820_19.D\ECD2B.CH
Acq On : 20 Aug 2002 4:43 pm Operator: 308
Sample : MS 10x WG81049 L86833-02 15-5 Inst : SVGC4
Misc : LF 8/20 spk ESC7719 Multiplr: 10.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Aug 20 16:56 2002 Quant Results File: PCB20820.RES

Quant Method : C:\HPCHEM\2\METHODS\PCB20820.M (Chemstation Integrator)
Title :
Last Update : Tue Aug 20 14:16:51 2002
Response via : Initial Calibration
DataAcq Meth : PCB20819.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) s TCMX	4.10	230062	0.246 µg/mL
Spiked Amount 0.200	Range 41 - 145	Recovery =	123.00%
10) s DCB	10.58	218414	0.232 µg/mL
Spiked Amount 0.200	Range 39 - 137	Recovery =	116.00%
12) s TCMX #2	3.96	246001	0.270 µg/mL
Spiked Amount 0.200	Range 41 - 145	Recovery =	135.00%
21) s dcb #2	9.88	299819	0.341 µg/mL
Spiked Amount 0.200	Range 39 - 137	Recovery =	170.50%#
Target Compounds			
2) m,t AROCLOR 1016(1)	0.00	0	N.D. µg/mL
3) m,t AROCLOR 1016(2)	0.00	0	N.D. µg/mL
4) m,t AROCLOR 1016(3)	0.00	0	N.D. µg/mL
5) m,t AROCLOR 1016(4)	0.00	0	N.D. µg/mL
6) m,t AROCLOR 1260(1)	7.63	5745	0.489 µg/mLm
7) m,t AROCLOR 1260(2)	7.69	30176	0.495 µg/mL
8) m,t AROCLOR 1260(3)	8.50	11047	0.472 µg/mLm
9) m,t AROCLOR 1260(4)	8.66	58210	0.647 µg/mL
13) m,t AROCLOR 1016(1) #2	0.00	0	N.D. µg/mL
14) m,t AROCLOR 1016(2) #2	0.00	0	N.D. µg/mL
15) m,t AROCLOR 1016(3) #2	0.00	0	N.D. µg/mL
16) m,t AROCLOR 1016(4) #2	6.56	8232	0.516 µg/mL
17) m,t AROCLOR 1260(1) #2	7.15	22509	0.320 µg/mL
18) m,t AROCLOR 1260(2) #2	7.41	36381	0.679 µg/mL
19) m,t AROCLOR 1260(3) #2	7.70	36871	0.601 µg/mL
20) m,t AROCLOR 1260(4) #2	8.35	50197	0.742 µg/mL

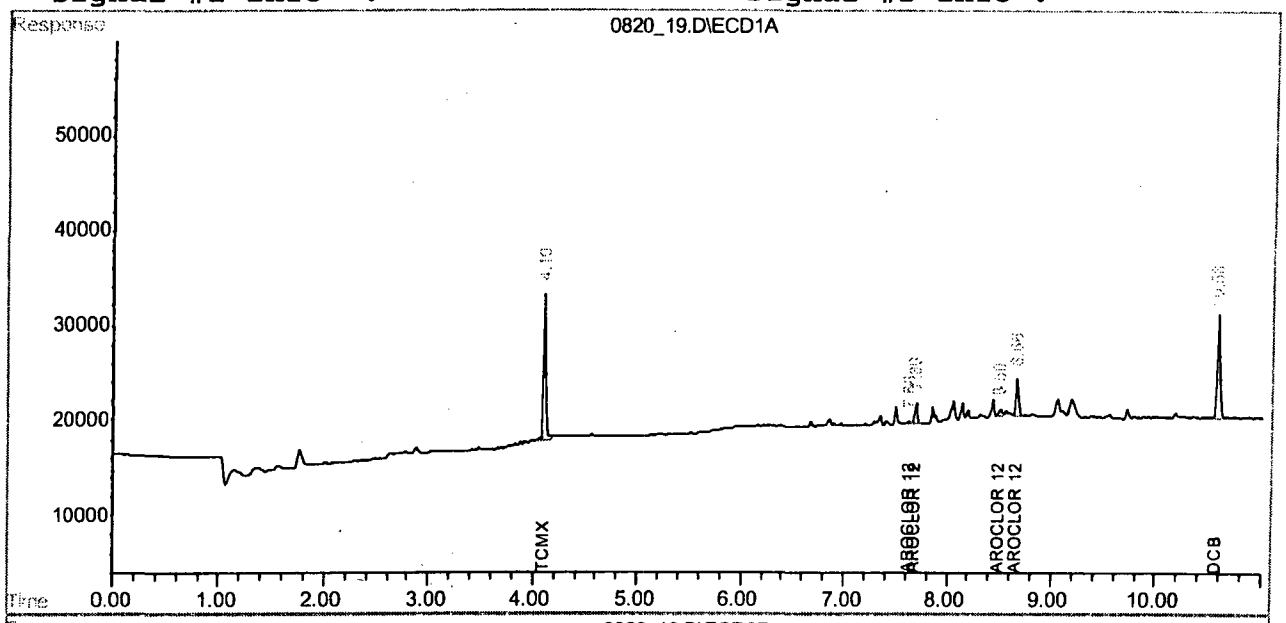
(f)=RT Delta > 1/2 Window (m)=manual int.
0820_19.D envdef.m Mon Sep 09 15:16:07 2002 Page 1

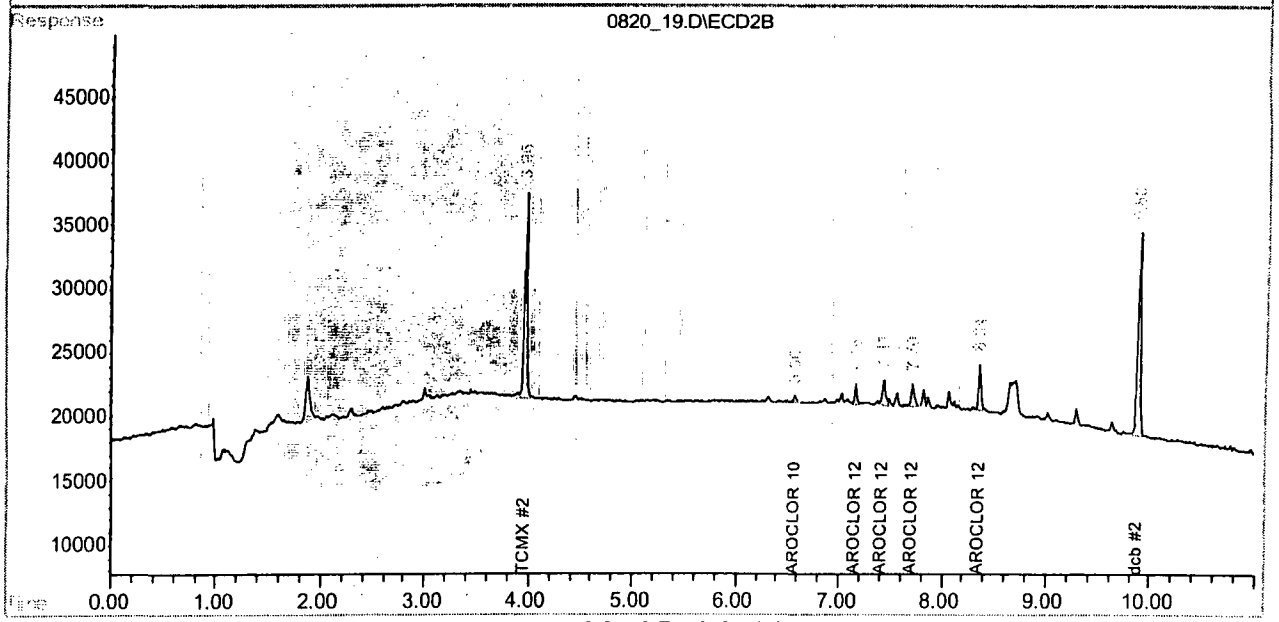
Quantitation Report (QT Reviewed)

Signal #1 : D:\DATA\SVGC#4\082002\0820_19.D\ECD1A.CH Vial: 10
Signal #2 : D:\DATA\SVGC#4\082002\0820_19.D\ECD2B.CH
Acq On : 20 Aug 2002 4:43 pm Operator: 308
Sample : MS 10x WG81049 L86833-02 15-5 Inst : SVGC4
Misc : LF 8/20 spk ESC7719 Multiplr: 10.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Aug 20 16:56 2002 Quant Results File: PCB20820.RES

Quant Method : C:\HPCHEM\2\METHODS\PCB20820.M (Chemstation Integrator)
Title :
Last Update : Tue Aug 20 14:16:51 2002
Response via : Multiple Level Calibration
DataAcq Meth : PCB20819.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Signal #1 : D:\DATA\SVGC#4\082002\0820_20.D\ECD1A.CH Vial: 11
Signal #2 : D:\DATA\SVGC#4\082002\0820_20.D\ECD2B.CH
Acq On : 20 Aug 2002 4:58 pm Operator: 308
Sample : MSD 10x WG81049 L86833-02 15-5 Inst : SVGC4
Misc : LF 8/20 spk ESC7719 Multiplr: 10.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Aug 20 17:19 2002 Quant Results File: PCB20820.RES

Quant Method : C:\HPCHEM\2\METHODS\PCB20820.M (Chemstation Integrator)
Title :
Last Update : Tue Aug 20 14:16:51 2002
Response via : Initial Calibration
DataAcq Meth : PCB20819.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) s TCMX	4.10	203660	0.218 µg/mL
Spiked Amount 0.200	Range 41 - 145	Recovery =	109.00%
10) s DCB	10.58	205891	0.219 µg/mL
Spiked Amount 0.200	Range 39 - 137	Recovery =	109.50%
12) s TCMX #2	3.96	223549	0.246 µg/mL
Spiked Amount 0.200	Range 41 - 145	Recovery =	123.00%
21) s dcb #2	9.88	291851	0.332 µg/mL
Spiked Amount 0.200	Range 39 - 137	Recovery =	166.00%#
Target Compounds			
2) m,t AROCLOR 1016(1)	0.00	0	N.D. µg/mL
3) m,t AROCLOR 1016(2)	0.00	0	N.D. µg/mL
4) m,t AROCLOR 1016(3)	5.83f	13238	0.417 µg/mL
5) m,t AROCLOR 1016(4)	5.96	16882	0.925 µg/mL
6) m,t AROCLOR 1260(1)	7.63	5436	0.463 µg/mL
7) m,t AROCLOR 1260(2)	7.69	29691	0.487 µg/mL
8) m,t AROCLOR 1260(3)	8.50	11223	0.480 µg/mLm
9) m,t AROCLOR 1260(4)	8.66	56683	0.630 µg/mL
13) m,t AROCLOR 1016(1) #2	0.00	0	N.D. µg/mL
14) m,t AROCLOR 1016(2) #2	0.00	0	N.D. µg/mL
15) m,t AROCLOR 1016(3) #2	0.00	0	N.D. µg/mL
16) m,t AROCLOR 1016(4) #2	6.56	6618	0.415 µg/mL
17) m,t AROCLOR 1260(1) #2	7.15	19350	0.205 µg/mL
18) m,t AROCLOR 1260(2) #2	7.42	30672	0.573 µg/mL
19) m,t AROCLOR 1260(3) #2	7.70	32143	0.524 µg/mL
20) m,t AROCLOR 1260(4) #2	8.35	48258	0.713 µg/mL

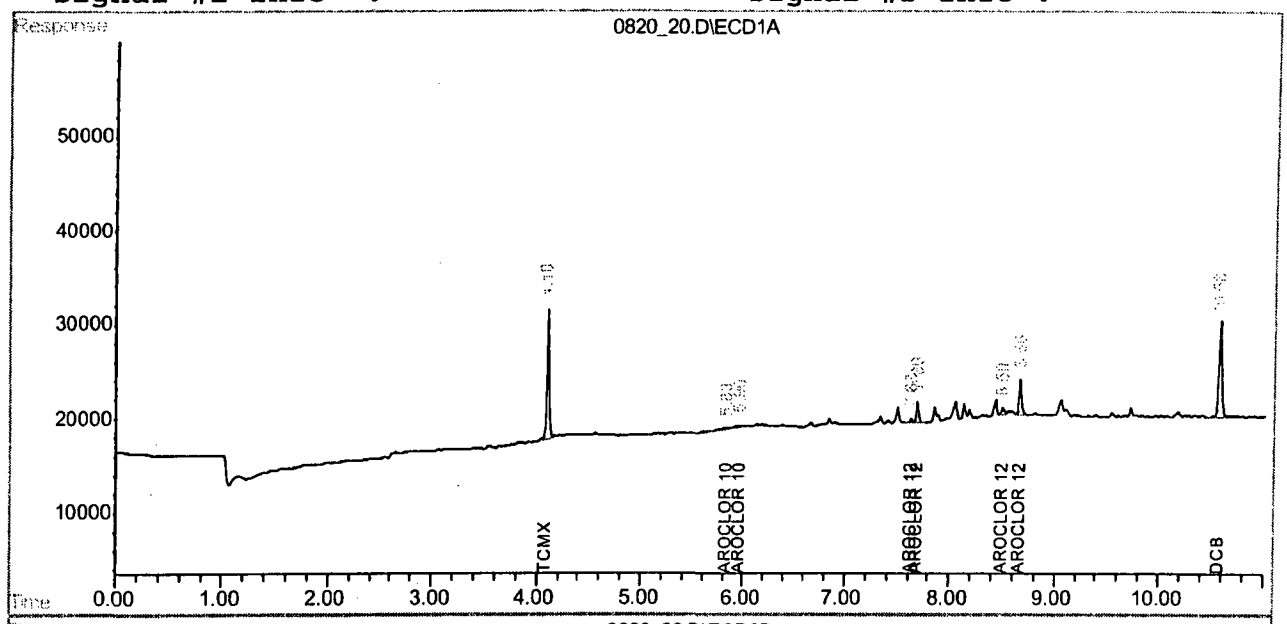
(f)=RT Delta > 1/2 Window (m)=manual int.

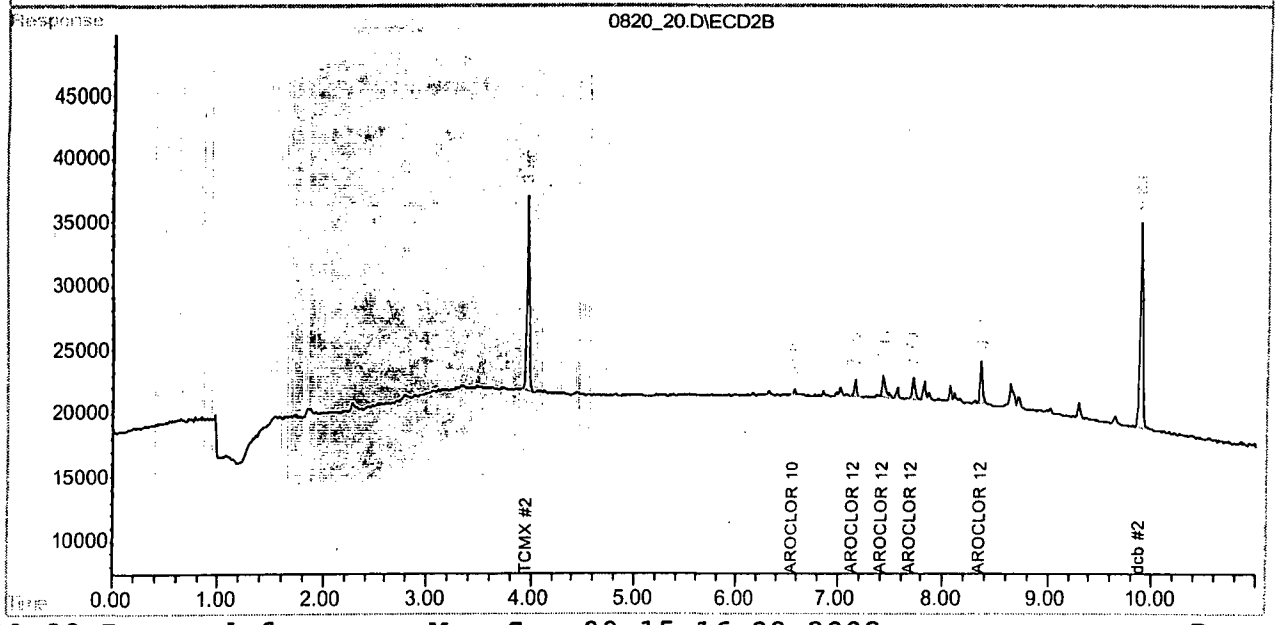
Quantitation Report (QT Reviewed)

Signal #1 : D:\DATA\SVGC#4\082002\0820_20.D\ECD1A.CH Vial: 11
Signal #2 : D:\DATA\SVGC#4\082002\0820_20.D\ECD2B.CH
Acq On : 20 Aug 2002 4:58 pm Operator: 308
Sample : MSD 10x WG81049 L86833-02 15-5 Inst : SVGC4
Misc : LF 8/20 spk ESC7719 Multiplr: 10.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Aug 20 17:19 2002 Quant Results File: PCB20820.RES

Quant Method : C:\HPCHEM\2\METHODS\PCB20820.M (Chemstation Integrator)
Title :
Last Update : Tue Aug 20 14:16:51 2002
Response via : Multiple Level Calibration
DataAcq Meth : PCB20819.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Signal #1 : D:\DATA\SVGC#4\082002\0820_21.D\ECD1A.CH Vial: 12
Signal #2 : D:\DATA\SVGC#4\082002\0820_21.D\ECD2B.CH
Acq On : 20 Aug 2002 5:12 pm Operator: 308
Sample : L86833-02 10x WG81049 15-5 Inst : SVGC4
Misc : Multiplr: 10.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Aug 20 17:30 2002 Quant Results File: PCB20820.RES

Quant Method : C:\HPCHEM\2\METHODS\PCB20820.M (Chemstation Integrator)
Title :
Last Update : Tue Aug 20 14:16:51 2002
Response via : Initial Calibration
DataAcq Meth : PCB20819.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

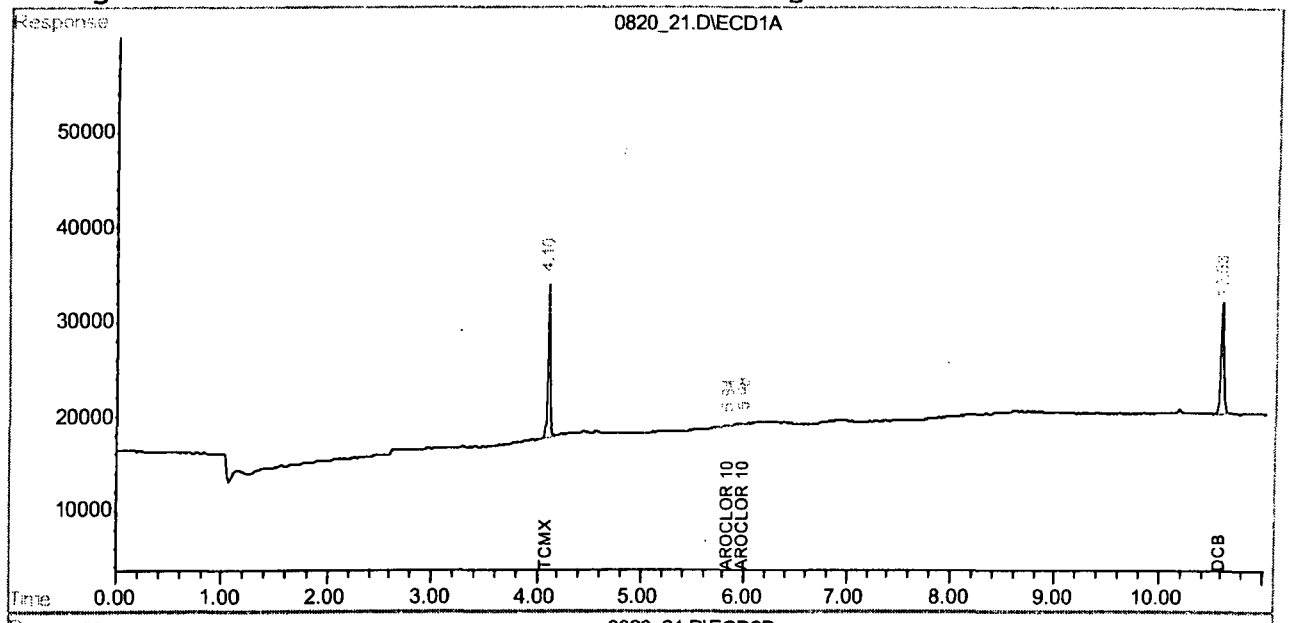
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) s TCMX	4.10	234673	0.251 µg/mL
Spiked Amount 0.200	Range 41 - 145	Recovery =	125.50%
10) s DCB	10.58	236027	0.251 µg/mL
Spiked Amount 0.200	Range 39 - 137	Recovery =	125.50%
12) s TCMX #2	3.96	262773	0.289 µg/mL
Spiked Amount 0.200	Range 41 - 145	Recovery =	144.50%
21) s dcb #2	9.88	360682	0.410 µg/mL
Spiked Amount 0.200	Range 39 - 137	Recovery =	205.00%#
Target Compounds			
2) m,t AROCLOR 1016(1)	0.00	0	N.D. µg/mL
3) m,t AROCLOR 1016(2)	0.00	0	N.D. µg/mL
4) m,t AROCLOR 1016(3)	5.84f	10078	0.317 µg/mL
5) m,t AROCLOR 1016(4)	5.98	9934	0.545 µg/mL
6) m,t AROCLOR 1260(1)	0.00	0	N.D. µg/mL
7) m,t AROCLOR 1260(2)	0.00	0	N.D. µg/mL
8) m,t AROCLOR 1260(3)	0.00	0	N.D. µg/mL
9) m,t AROCLOR 1260(4)	0.00	0	N.D. µg/mL
13) m,t AROCLOR 1016(1) #2	0.00	0	N.D. µg/mL
14) m,t AROCLOR 1016(2) #2	0.00	0	N.D. µg/mL
15) m,t AROCLOR 1016(3) #2	0.00	0	N.D. µg/mL
16) m,t AROCLOR 1016(4) #2	0.00	0	N.D. µg/mL
17) m,t AROCLOR 1260(1) #2	0.00	0	N.D. µg/mL
18) m,t AROCLOR 1260(2) #2	0.00	0	N.D. µg/mL
19) m,t AROCLOR 1260(3) #2	0.00	0	N.D. µg/mL
20) m,t AROCLOR 1260(4) #2	0.00	0	N.D. µg/mL

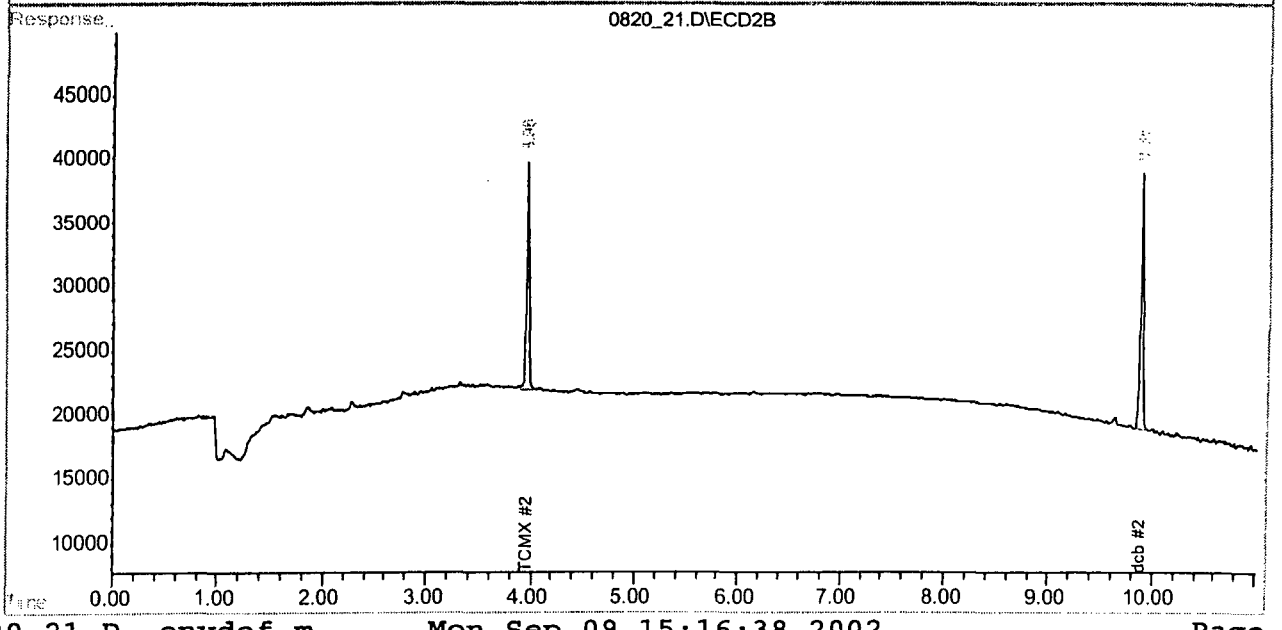
Quantitation Report (QT Reviewed)

Signal #1 : D:\DATA\SVGC#4\082002\0820_21.D\ECD1A.CH Vial: 12
Signal #2 : D:\DATA\SVGC#4\082002\0820_21.D\ECD2B.CH
Acq On : 20 Aug 2002 5:12 pm Operator: 308
Sample : L86833-02 10x WG81049 15-5 Inst : SVGC4
Misc : Multiplr: 10.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Aug 20 17:30 2002 Quant Results File: PCB20820.RES

Quant Method : C:\HPCHEM\2\METHODS\PCB20820.M (Chemstation Integrator)
Title :
Last Update : Tue Aug 20 14:16:51 2002
Response via : Multiple Level Calibration
DataAcq Meth : PCB20819.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Signal #1 : D:\DATA\SVGC#4\082002\0820_22.D\ECD1A.CH Vial: 2
Signal #2 : D:\DATA\SVGC#4\082002\0820_22.D\ECD2B.CH
Acq On : 20 Aug 2002 5:26 pm Operator: 308
Sample : 1016/1260 .50ppm Inst : SVGC4
Misc : BS030104K30 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Aug 20 17:39 2002 Quant Results File: PCB20820.RES

Quant Method : C:\HPCHEM\2\METHODS\PCB20820.M (Chemstation Integrator)
Title :
Last Update : Tue Aug 20 14:16:51 2002
Response via : Initial Calibration
DataAcq Meth : PCB20819.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound			R.T.	Response	Conc Units
System Monitoring Compounds					
1) s TCMX			4.10	1011161	0.108 µg/mL
Spiked Amount	0.200	Range	41 - 145	Recovery =	54.00%
10) s DCB			10.58	1029935	0.110 µg/mL
Spiked Amount	0.200	Range	39 - 137	Recovery =	55.00%
12) s TCMX #2			3.96	1228840	0.135 µg/mL
Spiked Amount	0.200	Range	41 - 145	Recovery =	67.50%
21) s dcb #2			9.88	1391579	0.158 µg/mL
Spiked Amount	0.200	Range	39 - 137	Recovery =	79.00%
Target Compounds					
2) m,t AROCLOR 1016(1)			4.68	83201	0.426 µg/mL
3) m,t AROCLOR 1016(2)			5.40	79838	0.537 µg/mL
4) m,t AROCLOR 1016(3)			5.76	183299	0.577 µg/mL
5) m,t AROCLOR 1016(4)			5.96	88875	0.487 µg/mLm
6) m,t AROCLOR 1260(1)			7.63	69620	0.593 µg/mL
7) m,t AROCLOR 1260(2)			7.69	328915	0.540 µg/mL
8) m,t AROCLOR 1260(3)			8.50	129483	0.554 µg/mLm
9) m,t AROCLOR 1260(4)			8.66	523821	0.582 µg/mLm
13) m,t AROCLOR 1016(1) #2			4.40	109975	0.688 µg/mL
14) m,t AROCLOR 1016(2) #2			5.54	123846	0.732 µg/mL
15) m,t AROCLOR 1016(3) #2			6.00	76444	0.754 µg/mL
16) m,t AROCLOR 1016(4) #2			6.56	126773	0.794 µg/mL
17) m,t AROCLOR 1260(1) #2			7.15	232251	0.796 µg/mL
18) m,t AROCLOR 1260(2) #2			7.41	378382	0.707 µg/mL
19) m,t AROCLOR 1260(3) #2			7.70	419579	0.684 µg/mL
20) m,t AROCLOR 1260(4) #2			8.34	474483	0.701 µg/mL

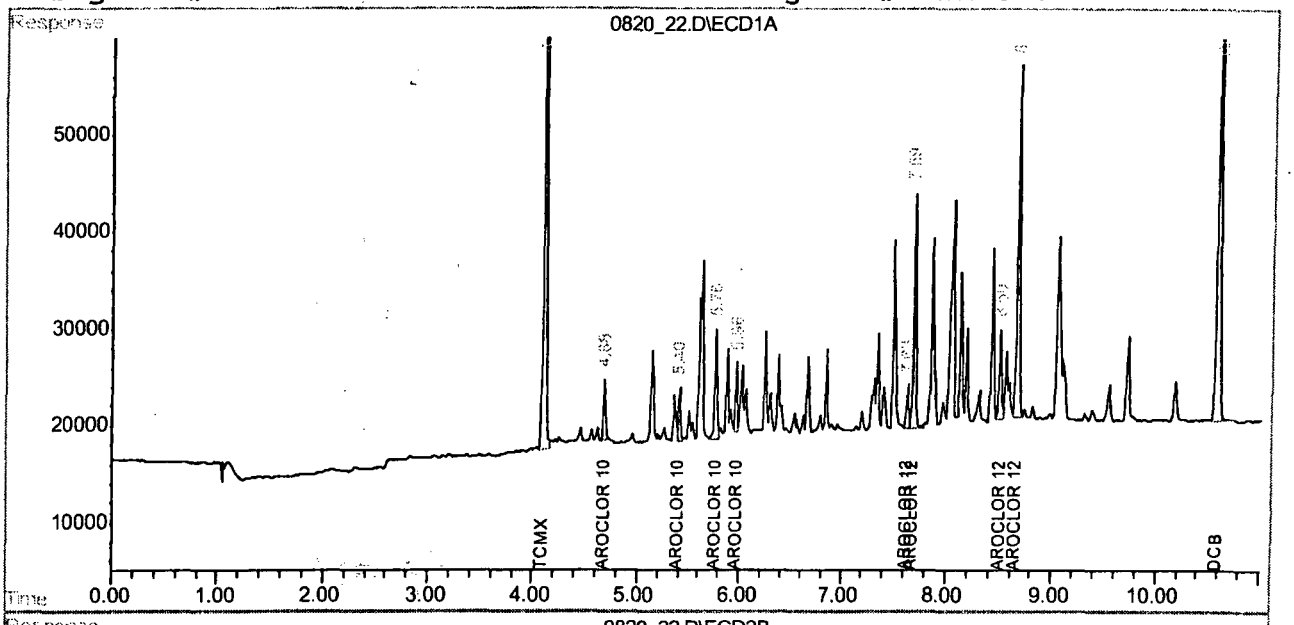
(f)=RT Delta > 1/2 Window (m)=manual int.
0820_22.D envdef.m Mon Sep 09 15:16:54 2002 Page 1

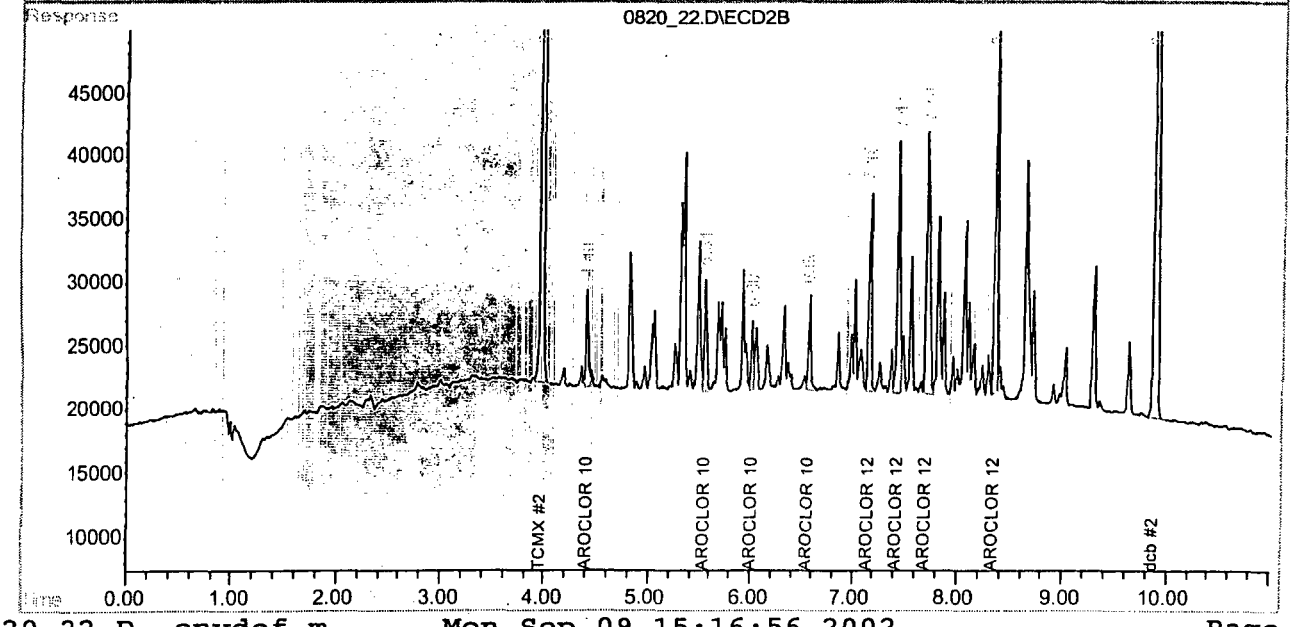
Quantitation Report (QT Reviewed)

Signal #1 : D:\DATA\SVGC#4\082002\0820_22.D\ECD1A.CH Vial: 2
Signal #2 : D:\DATA\SVGC#4\082002\0820_22.D\ECD2B.CH
Acq On : 20 Aug 2002 5:26 pm Operator: 308
Sample : 1016/1260 .50ppm Inst : SVGC4
Misc : BS030104K30 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Aug 20 17:39 2002 Quant Results File: PCB20820.RES

Quant Method : C:\HPCHEM\2\METHODS\PCB20820.M (Chemstation Integrator)
Title :
Last Update : Tue Aug 20 14:16:51 2002
Response via : Multiple Level Calibration
DataAcq Meth : PCB20819.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Calibration Standards

Response Factor Report SVGC4

Method : C:\HPCHEM\2\METHODS\PCB20820.M (Chemstation Integrator)
Title :
Last Update : Tue Aug 20 14:16:51 2002

8/20/02 KK

Calibration Files
1 =0820_03.D 2 =0820_04.D 3 =0820_05.D
4 =0820_06.D 5 =0820_07.D 6 =0820_08.D

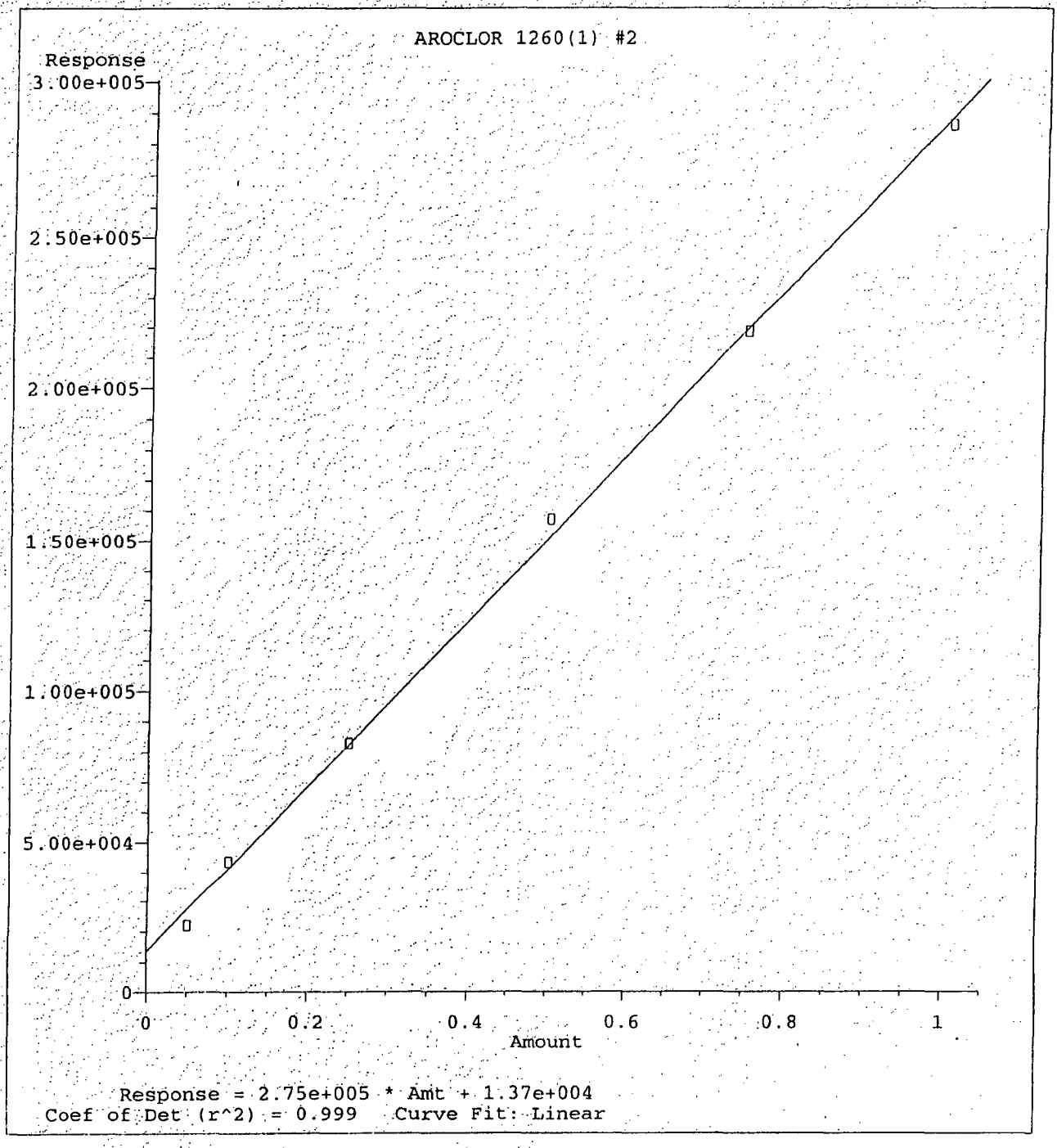
KPS 8/20/02

		Compound	1	2	3	4	5	6	Avg		%RSD
1)	s	TCMX	1.097	1.132	0.955	0.843	0.808	0.781	0.936	E7	16.10
2)	m,t	AROCLOR 1016(1)	2.167	2.137	1.964	1.889	1.918	1.640	1.952	E5	9.79
3)	m,t	AROCLOR 1016(2)	1.592	1.562	1.650	1.380	1.475	1.256	1.486	E5	9.90
4)	m,t	AROCLOR 1016(3)	3.168	3.198	3.338	3.348	3.120	2.878	3.175	E5	5.42
5)	m,t	AROCLOR 1016(4)	1.765	1.995	1.726	1.954	1.846	1.659	1.824	E5	7.24
6)	m,t	AROCLOR 1260(1)	0.923	1.217	1.319	1.270	1.260	1.053	1.174	E5	13.05
7)	m,t	AROCLOR 1260(2)	6.511	7.794	6.164	5.731	5.415	4.943	6.093	E5	16.39
8)	m,t	AROCLOR 1260(3)	2.352	2.592	2.318	1.887	2.593	2.291	2.339	E5	11.08
9)	m,t	AROCLOR 1260(4)	0.713	1.180	0.935	0.867	0.875	0.830	0.900	E6	17.29
10)	s	DCB	1.037	1.143	0.958	0.867	0.834	0.805	0.941	E7	13.92

Signal #2 Calibration Files
1 =0820_03.D 2 =0820_04.D 3 =0820_05.D
4 =0820_06.D 5 =0820_07.D 6 =0820_08.D

		Compound	1	2	3	4	5	6	Avg		%RSD
1)	s	TCMX	0.921	1.161	0.896	0.846	0.821	0.815	0.910	E7	14.27
2)	m,t	AROCLOR 1016(1)	1.888	1.798	1.346	1.558	1.514	1.492	1.600	E5	12.73
3)	m,t	AROCLOR 1016(2)	1.657	1.848	1.688	1.657	1.631	1.664	1.691	E5	4.66
4)	m,t	AROCLOR 1016(3)	0.878	1.163	1.036	1.003	0.976	1.026	1.014	E5	9.13
5)	m,t	AROCLOR 1016(4)	1.517	1.771	1.578	1.614	1.560	1.538	1.596	E5	5.75
6)	m,t	AROCLOR 1260(1)	4.399	4.359	3.313	3.140	2.914	2.862	3.498	E5	20.06
7)	m,t	AROCLOR 1260(2)	5.237	6.972	5.309	4.998	4.833	4.778	5.355	E5	15.32
8)	m,t	AROCLOR 1260(3)	6.985	7.855	5.864	5.480	5.314	5.323	6.137	E5	17.12
9)	m,t	AROCLOR 1260(4)	7.663	8.400	6.438	6.254	5.769	6.081	6.767	E5	15.23
10)	s	dcb	8.554	9.214	8.864	8.630	8.460	9.014	8.789	E6	3.32

(#) = Out of Range



Method Name: C:\HPCHEM\2\METHODS\PCB20820.M
Calibration Table Last Updated: Tue Aug 20 14:16:51 2002

Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\2\DATA\082002\0820_03.D\ECD1A.CH Vial: 3
Signal #2 : C:\HPCHEM\2\DATA\082002\0820_03.D\ECD2B.CH
Acq On : 20 Aug 2002 11:25 am Operator: 308
Sample : 1016/1260 .05ppm Inst : SVGC4
Misc : BS030104K30 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Aug 20 14:12 2002 Quant Results File: PCB20820.RES

Quant Method : C:\HPCHEM\2\METHODS\PCB20820.M (Chemstation Integrator)
Title :
Last Update : Tue Aug 20 14:01:56 2002
Response via : Initial Calibration
DataAcq Meth : PCB20819.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

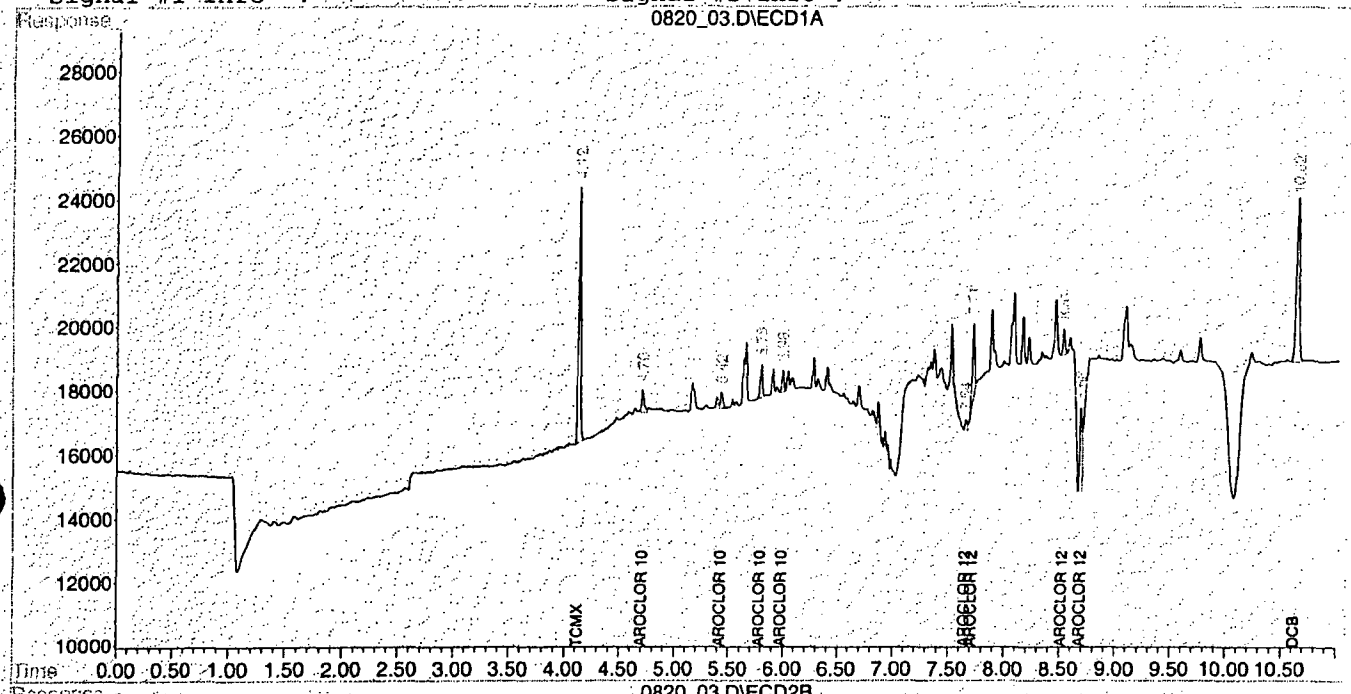
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) s TCMX	4.12	109660	0.016 µg/mL
Spiked Amount 0.200	Range 41 - 145	Recovery =	8.00%#
10) s DCB	10.62	103653	0.015 µg/mLm
Spiked Amount 0.200	Range 39 - 137	Recovery =	7.50%#
12) s TCMX #2	3.97	92052	0.014 µg/mL
Spiked Amount 0.200	Range 41 - 145	Recovery =	7.00%#
21) s dcb #2	9.89	85545	0.012 µg/mL
Spiked Amount 0.200	Range 39 - 137	Recovery =	6.00%#
Target Compounds			
2) m,t AROCLOR 1016(1)	4.70	10835	0.083 µg/mLm
3) m,t AROCLOR 1016(2)	5.42	7960	0.072 µg/mL
4) m,t AROCLOR 1016(3)	5.78	15838	0.063 µg/mL
5) m,t AROCLOR 1016(4)	5.98	8823	0.063 µg/mL
6) m,t AROCLOR 1260(1)	7.64	4615	0.048 µg/mLm
7) m,t AROCLOR 1260(2)	7.71	32555	0.071 µg/mLm
8) m,t AROCLOR 1260(3)	8.51	11761	0.067 µg/mLm
9) m,t AROCLOR 1260(4)	8.68	35673	0.048 µg/mL
13) m,t AROCLOR 1016(1) #2	4.41	9441	0.086 µg/mL
14) m,t AROCLOR 1016(2) #2	5.55	8287	0.062 µg/mL
15) m,t AROCLOR 1016(3) #2	6.01	4389	0.057 µg/mLm
16) m,t AROCLOR 1016(4) #2	6.57f	7584	0.082 µg/mLm
17) m,t AROCLOR 1260(1) #2	7.16	21995	0.081 µg/mL
18) m,t AROCLOR 1260(2) #2	7.43	26186	0.063 µg/mL
19) m,t AROCLOR 1260(3) #2	7.71	34925	0.070 µg/mL
20) m,t AROCLOR 1260(4) #2	8.36	38317	0.068 µg/mL

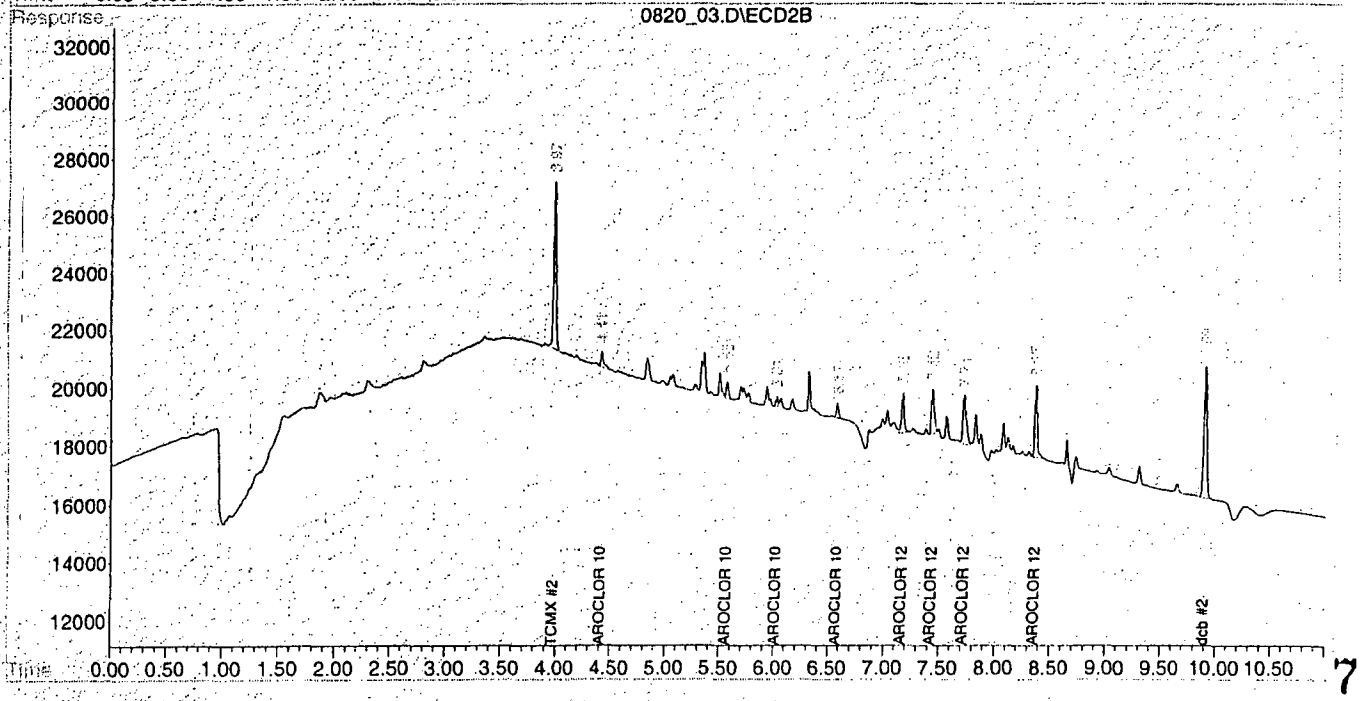
Quantitation Report

Signal #1 : C:\HPCHEM\2\DATA\082002\0820_03.D\ECD1A.CH Vial: 3
Signal #2 : C:\HPCHEM\2\DATA\082002\0820_03.D\ECD2B.CH
Acq On : 20 Aug 2002 11:25 am Operator: 308
Sample : 1016/1260 .05ppm Inst : SVGC4
Misc : BS030104K30 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Aug 20 14:12 2002 Quant Results File: PCB20820.RES

Quant Method : C:\HPCHEM\2\METHODS\PCB20820.M (Chemstation Integrator)
Title :
Last Update : Tue Aug 20 14:01:56 2002
Response via : Multiple Level Calibration
DataAcq Meth : PCB20819.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





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Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\2\DATA\082002\0820_04.D\ECD1A.CH Vial: 4
Signal #2 : C:\HPCHEM\2\DATA\082002\0820_04.D\ECD2B.CH
Acq On : 20 Aug 2002 11:40 am Operator: 308
Sample : 1016/1260 .10ppm Inst : SVGC4
Misc : BS030104K30 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Aug 20 14:13 2002 Quant Results File: PCB20820.RES

Quant Method : C:\HPCHEM\2\METHODS\PCB20820.M (Chemstation Integrator)
Title :
Last Update : Tue Aug 20 14:07:44 2002
Response via : Initial Calibration
DataAcq Meth : PCB20819.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

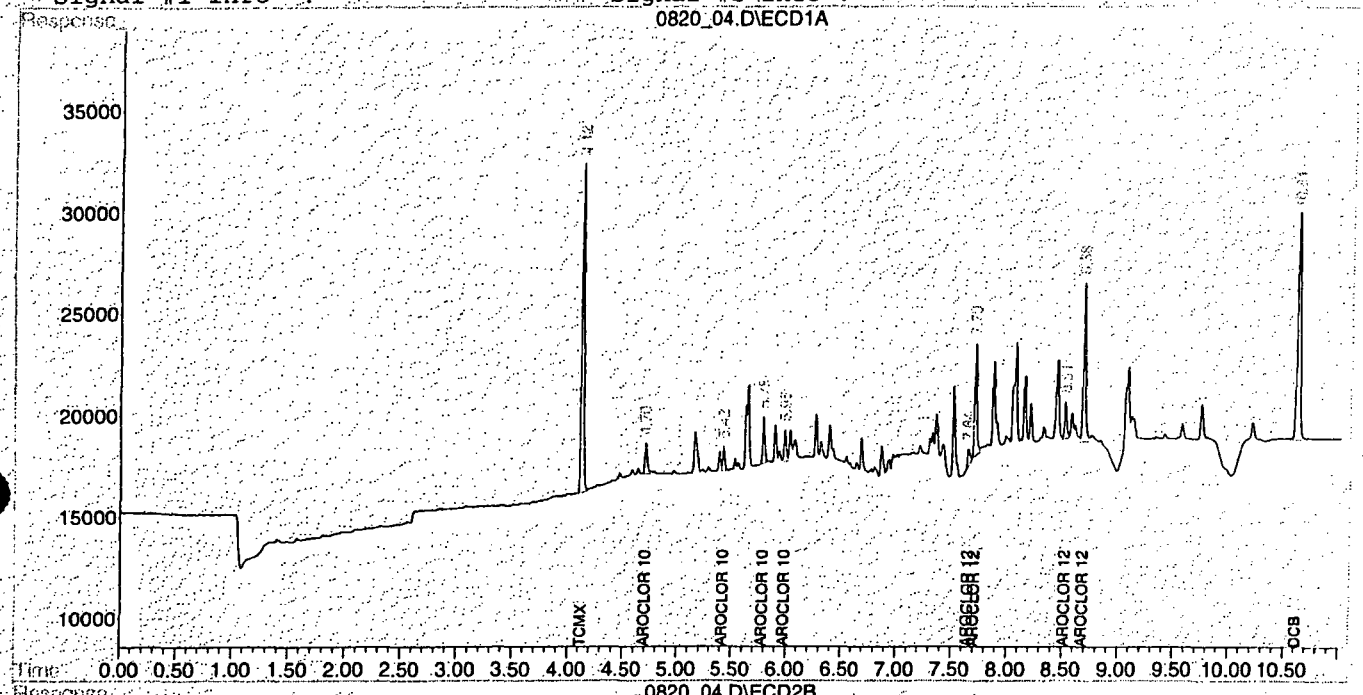
Compound			R.T.	Response	Conc Units
System Monitoring Compounds					
1) s TCMX			4.12	226324	0.029 µg/mL
Spiked Amount	0.200	Range	41 - 145	Recovery =	14.50%#
10) s DCB			10.61	228576	0.030 µg/mLm
Spiked Amount	0.200	Range	39 - 137	Recovery =	15.00%#
12) s TCMX #2			3.97	232211	0.032 µg/mL
Spiked Amount	0.200	Range	41 - 145	Recovery =	16.00%#
21) s dcb #2			9.89	184286	0.025 µg/mL
Spiked Amount	0.200	Range	39 - 137	Recovery =	12.50%#
Target Compounds					
2) m,t AROCLOR 1016(1)			4.70	21365	0.142 µg/mLm
3) m,t AROCLOR 1016(2)			5.42	15624	0.126 µg/mL
4) m,t AROCLOR 1016(3)			5.78	31976	0.117 µg/mL
5) m,t AROCLOR 1016(4)			5.98	19952	0.129 µg/mLm
6) m,t AROCLOR 1260(1)			7.64	12175	0.128 µg/mLm
7) m,t AROCLOR 1260(2)			7.70	77942	0.170 µg/mLm
8) m,t AROCLOR 1260(3)			8.51	25923	0.134 µg/mLm
9) m,t AROCLOR 1260(4)			8.68	118000	0.157 µg/mLm
13) m,t AROCLOR 1016(1) #2			4.41	17984	0.140 µg/mLm
14) m,t AROCLOR 1016(2) #2			5.56	18476	0.130 µg/mL
15) m,t AROCLOR 1016(3) #2			6.01	11626	0.139 µg/mL
16) m,t AROCLOR 1016(4) #2			6.57f	17707	0.130 µg/mLm
17) m,t AROCLOR 1260(1) #2			7.16	43591	0.145 µg/mL
18) m,t AROCLOR 1260(2) #2			7.43	69719	0.157 µg/mL
19) m,t AROCLOR 1260(3) #2			7.71	78554	0.148 µg/mL
20) m,t AROCLOR 1260(4) #2			8.35	83996	0.140 µg/mL

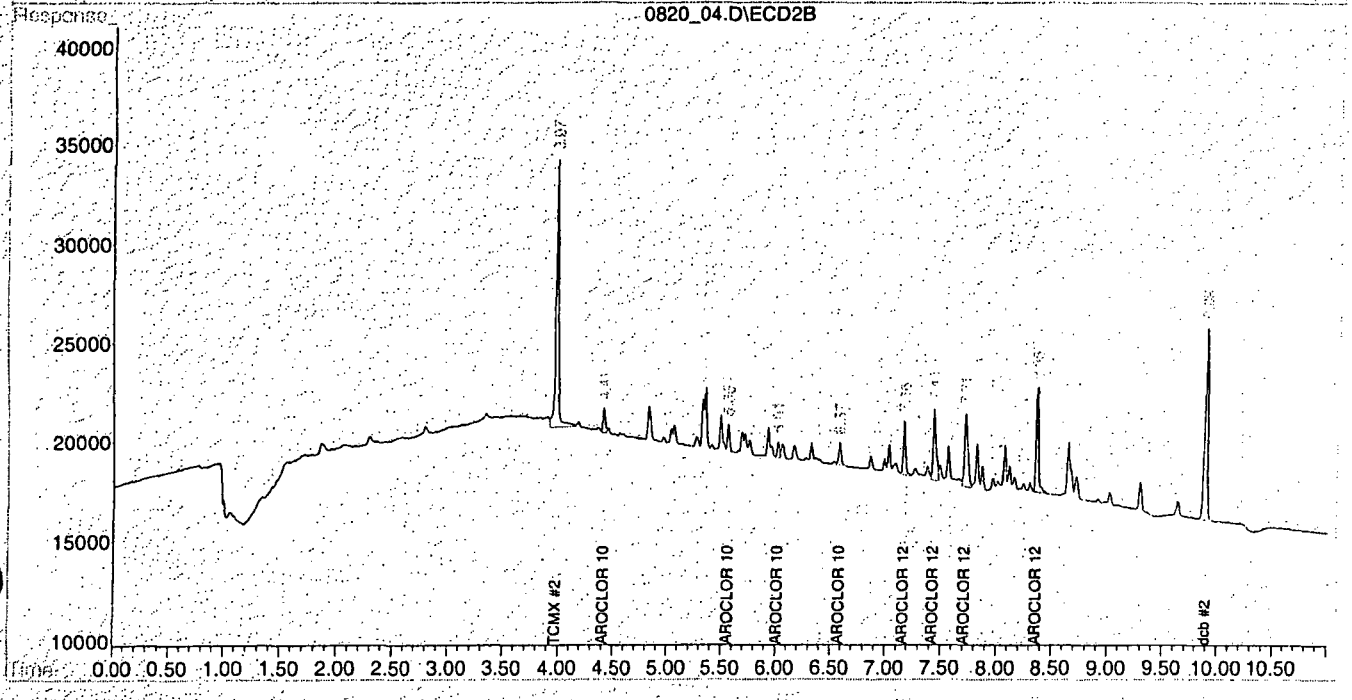
Quantitation Report

Signal #1 : C:\HPCHEM\2\DATA\082002\0820_04.D\ECD1A.CH Vial: 4
Signal #2 : C:\HPCHEM\2\DATA\082002\0820_04.D\ECD2B.CH
Acq On : 20 Aug 2002 11:40 am Operator: 308
Sample : 1016/1260 .10ppm Inst : SVGC4
Misc : BS030104K30 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Aug 20 14:13 2002 Quant Results File: PCB20820.RES

Quant Method : C:\HPCHEM\2\METHODS\PCB20820.M (Chemstation Integrator)
Title :
Last Update : Tue Aug 20 14:07:44 2002
Response via : Multiple Level Calibration
DataAcq Meth : PCB20819.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





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Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\2\DATA\082002\0820_05.D\ECD1A.CH Vial: 5
Signal #2 : C:\HPCHEM\2\DATA\082002\0820_05.D\ECD2B.CH
Acq On : 20 Aug 2002 11:54 am Operator: 308
Sample : 1016/1260 .25ppm Inst : SVGC4
Misc : BS030104K30 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Aug 20 14:16 2002 Quant Results File: PCB20820.RES

Quant Method : C:\HPCHEM\2\METHODS\PCB20820.M (Chemstation Integrator)
Title :
Last Update : Tue Aug 20 14:08:50 2002
Response via : Initial Calibration
DataAcq Meth : PCB20819.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) s TCMX	4.11	477371	0.055 µg/mL
Spiked Amount 0.200	Range 41 - 145	Recovery =	27.50%#
10) s DCB	10.61	478986	0.055 µg/mLm
Spiked Amount 0.200	Range 39 - 137	Recovery =	27.50%#
12) s TCMX #2	3.97	448198	0.053 µg/mL
Spiked Amount 0.200	Range 41 - 145	Recovery =	26.50%#
21) s dcb #2	9.89	443177	0.055 µg/mL
Spiked Amount 0.200	Range 39 - 137	Recovery =	27.50%#
Target Compounds			
2) m,t AROCLOR 1016(1)	4.69	49101	0.290 µg/mLm
3) m,t AROCLOR 1016(2)	5.41	41254	0.305 µg/mL
4) m,t AROCLOR 1016(3)	5.77	83447	0.282 µg/mLm
5) m,t AROCLOR 1016(4)	5.97	43147	0.251 µg/mLm
6) m,t AROCLOR 1260(1)	7.64	32987	0.317 µg/mLm
7) m,t AROCLOR 1260(2)	7.70	154112	0.291 µg/mLm
8) m,t AROCLOR 1260(3)	8.51	57942	0.267 µg/mLm
9) m,t AROCLOR 1260(4)	8.67	233820	0.278 µg/mLm
13) m,t AROCLOR 1016(1) #2	4.41	33662	0.227 µg/mL
14) m,t AROCLOR 1016(2) #2	5.55	42204	0.265 µg/mL
15) m,t AROCLOR 1016(3) #2	6.01	25906	0.274 µg/mL
16) m,t AROCLOR 1016(4) #2	6.57f	39451	0.271 µg/mLm
17) m,t AROCLOR 1260(1) #2	7.15	82837	0.248 µg/mL
18) m,t AROCLOR 1260(2) #2	7.42	132731	0.261 µg/mL
19) m,t AROCLOR 1260(3) #2	7.71	146611	0.250 µg/mL
20) m,t AROCLOR 1260(4) #2	8.35	160938	0.247 µg/mL

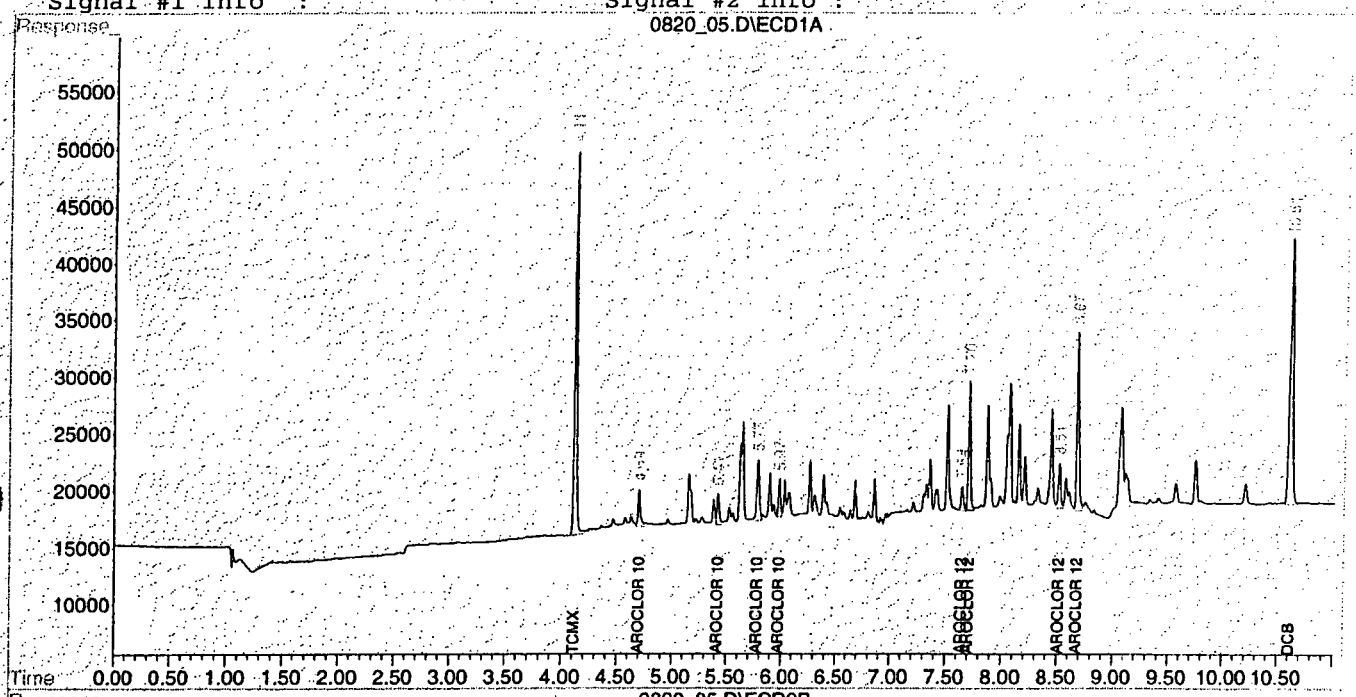
(f)=RT Delta > 1/2 Window (m)=manual int.
0820_05.D PCB20820.M Tue Aug 20 15:35:42 2002

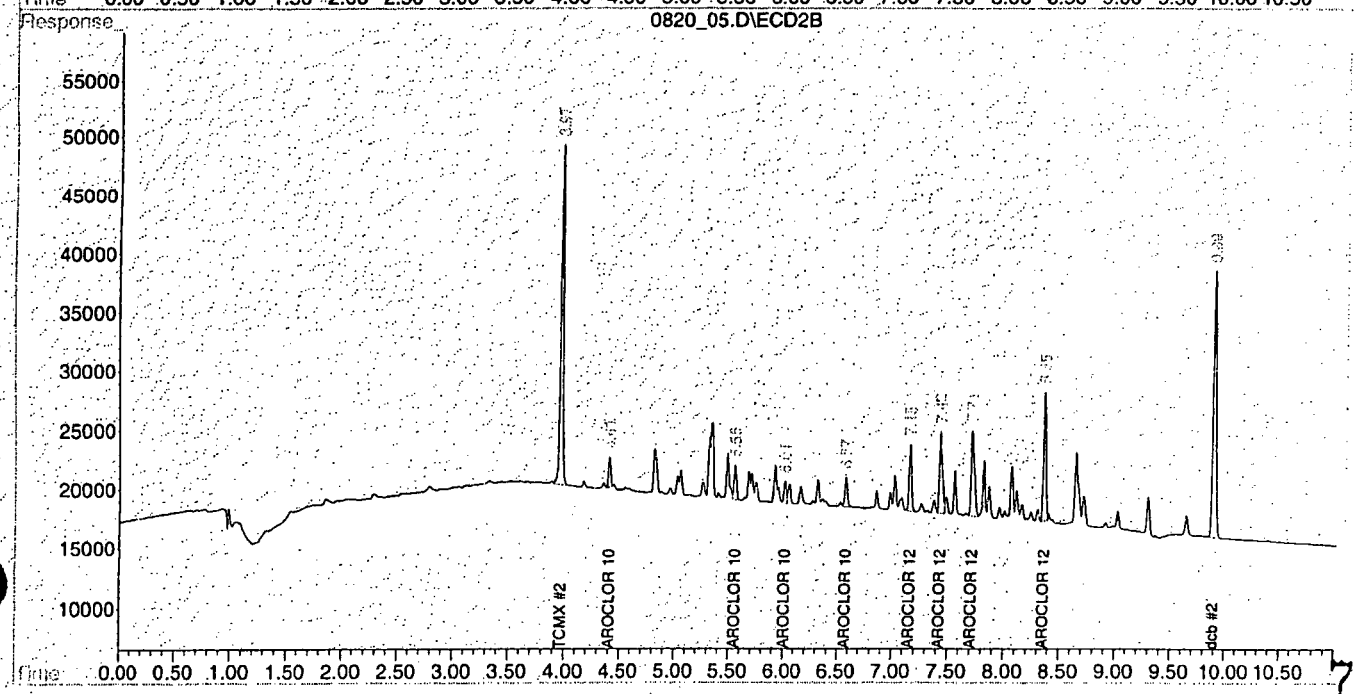
Quantitation Report

Signal #1 : C:\HPCHEM\2\DATA\082002\0820_05.D\ECD1A.CH Vial: 5
Signal #2 : C:\HPCHEM\2\DATA\082002\0820_05.D\ECD2B.CH
Acq On : 20 Aug 2002 11:54 am Operator: 308
Sample : 1016/1260 .25ppm Inst : SVGC4
Misc : BS030104K30 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Aug 20 14:16 2002 Quant Results File: PCB20820.RES

Quant Method : C:\HPCHEM\2\METHODS\PCB20820.M (Chemstation Integrator)
Title :
Last Update : Tue Aug 20 14:08:50 2002
Response via : Multiple Level Calibration
DataAcq Meth : PCB20819.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





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Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\2\DATA\082002\0820_06.D\ECD1A.CH Vial: 6
Signal #2 : C:\HPCHEM\2\DATA\082002\0820_06.D\ECD2B.CH
Acq On : 20 Aug 2002 12:08 pm Operator: 308
Sample : 1016/1260 .50ppm Inst : SVGC4
Misc : BS030104K30 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Aug 20 14:15 2002 Quant Results File: PCB20820.RES

Quant Method : C:\HPCHEM\2\METHODS\PCB20820.M (Chemstation Integrator)
Title :
Last Update : Tue Aug 20 14:13:14 2002
Response via : Initial Calibration
DataAcq Meth : PCB20819.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

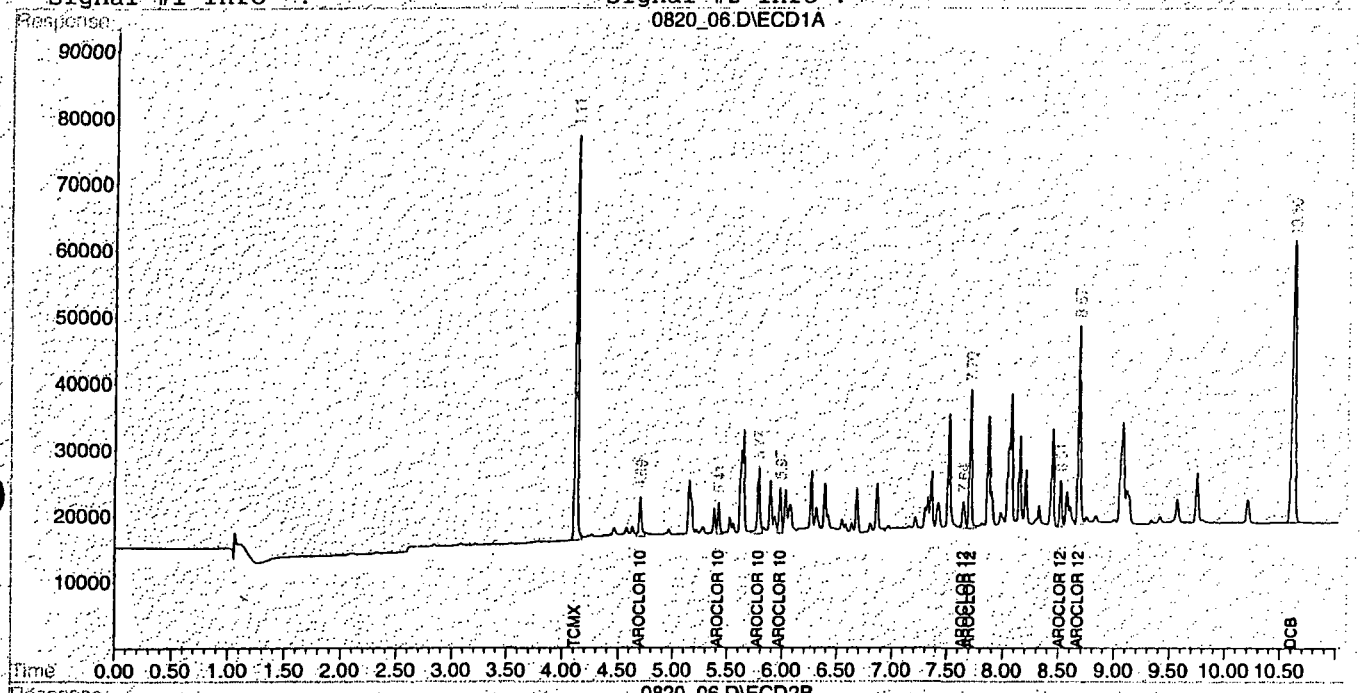
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) s TCMX	4.11	843355	0.090 µg/mL
Spiked Amount 0.200	Range 41 - 145	Recovery =	45.00%
10) s DCB	10.60	866634	0.092 µg/mL
Spiked Amount 0.200	Range 39 - 137	Recovery =	46.00%
12) s TCMX #2	3.97	845679	0.093 µg/mL
Spiked Amount 0.200	Range 41 - 145	Recovery =	46.50%
21) s dcb #2	9.89	863037	0.098 µg/mL
Spiked Amount 0.200	Range 39 - 137	Recovery =	49.00%
Target Compounds			
2) m,t AROCLOR 1016(1)	4.69	94427	0.492 µg/mLm
3) m,t AROCLOR 1016(2)	5.41	68985	0.464 µg/mL
4) m,t AROCLOR 1016(3)	5.77	167410	0.527 µg/mL
5) m,t AROCLOR 1016(4)	5.97	97713	0.536 µg/mL
6) m,t AROCLOR 1260(1)	7.64	63496	0.541 µg/mL
7) m,t AROCLOR 1260(2)	7.70	286562	0.470 µg/mL
8) m,t AROCLOR 1260(3)	8.51	94352	0.403 µg/mL
9) m,t AROCLOR 1260(4)	8.67	433472	0.482 µg/mL
13) m,t AROCLOR 1016(1) #2	4.41	77885	0.487 µg/mL
14) m,t AROCLOR 1016(2) #2	5.55	82875	0.490 µg/mL
15) m,t AROCLOR 1016(3) #2	6.01	50167	0.495 µg/mL
16) m,t AROCLOR 1016(4) #2	6.57	80683	0.608 µg/mL
17) m,t AROCLOR 1260(1) #2	7.15	156982	0.449 µg/mL
18) m,t AROCLOR 1260(2) #2	7.42	249911	0.467 µg/mL
19) m,t AROCLOR 1260(3) #2	7.71	274016	0.447 µg/mL
20) m,t AROCLOR 1260(4) #2	8.35	312700	0.462 µg/mL

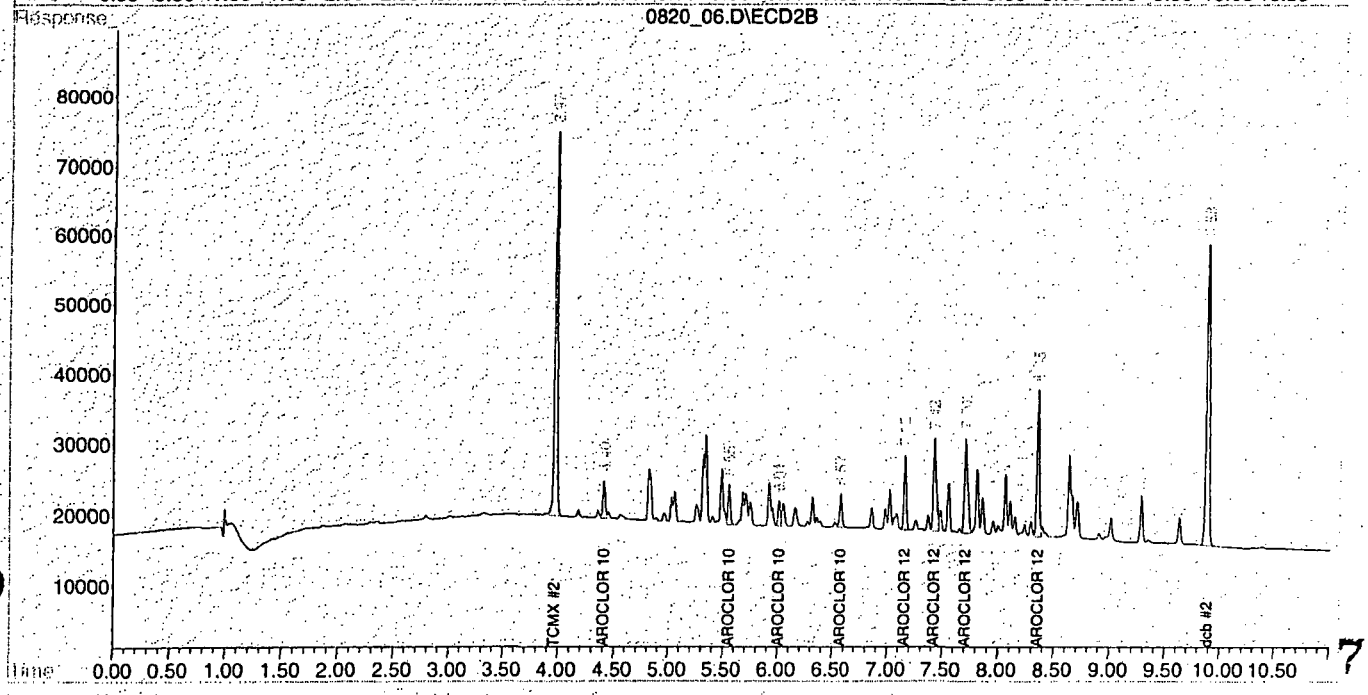
Quantitation Report

Signal #1 : C:\HPCHEM\2\DATA\082002\0820_06.D\ECD1A.CH Vial: 6
Signal #2 : C:\HPCHEM\2\DATA\082002\0820_06.D\ECD2B.CH
Acq On : 20 Aug 2002 12:08 pm Operator: 308
Sample : 1016/1260 50ppm Inst : SVGC4
Misc : BS030104K30 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Aug 20 14:15 2002 Quant Results File: PCB20820.RES

Quant Method : C:\HPCHEM\2\METHODS\PCB20820.M (Chemstation Integrator)
Title :
Last Update : Tue Aug 20 14:13:14 2002
Response via : Multiple Level Calibration
DataAcq Meth : PCB20819.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





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Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\2\DATA\082002\0820_07.D\ECD1A.CH Vial: 7
Signal #2 : C:\HPCHEM\2\DATA\082002\0820_07.D\ECD2B.CH
Acq On : 20 Aug 2002 12:23 pm Operator: 308
Sample : 1016/1260 .75ppm Inst : SVGC4
Misc : BS030104K30 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Aug 20 14:14 2002 Quant Results File: PCB20820.RES

Quant Method : C:\HPCHEM\2\METHODS\PCB20820.M (Chemstation Integrator)
Title :
Last Update : Tue Aug 20 14:14:14 2002
Response via : Initial Calibration
DataAcq Meth : PCB20819.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

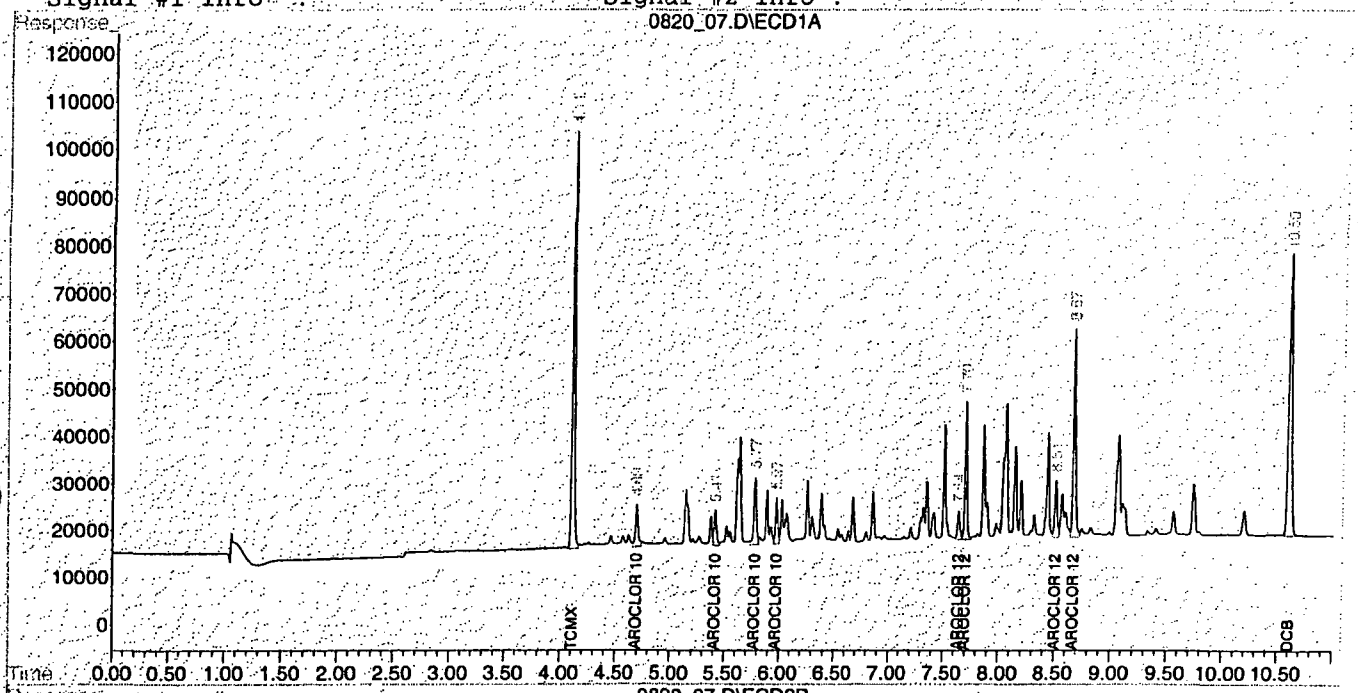
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) s TCMX	4.11	1211465	0.129 µg/mL
Spiked Amount 0.200	Range 41 - 145	Recovery =	64.50%
10) s DCB	10.60	1251725	0.133 µg/mL
Spiked Amount 0.200	Range 39 - 137	Recovery =	66.50%
12) s TCMX #2	3.97	1231464	0.135 µg/mL
Spiked Amount 0.200	Range 41 - 145	Recovery =	67.50%
21) s dcb #2	9.89	1268967	0.144 µg/mL
Spiked Amount 0.200	Range 39 - 137	Recovery =	72.00%
Target Compounds			
2) m,t AROCLOR 1016(1)	4.69	143833	0.749 µg/mL
3) m,t AROCLOR 1016(2)	5.41	110624	0.744 µg/mL
4) m,t AROCLOR 1016(3)	5.77	233985	0.737 µg/mL
5) m,t AROCLOR 1016(4)	5.97	138466	0.759 µg/mL
6) m,t AROCLOR 1260(1)	7.64	94533	0.805 µg/mL
7) m,t AROCLOR 1260(2)	7.70	406139	0.667 µg/mL
8) m,t AROCLOR 1260(3)	8.51	194451	0.831 µg/mL
9) m,t AROCLOR 1260(4)	8.67	655929	0.729 µg/mL
13) m,t AROCLOR 1016(1) #2	4.40	113584	0.710 µg/mL
14) m,t AROCLOR 1016(2) #2	5.55	122351	0.724 µg/mL
15) m,t AROCLOR 1016(3) #2	6.01	73199	0.722 µg/mL
16) m,t AROCLOR 1016(4) #2	6.57	116967	0.794 µg/mL
17) m,t AROCLOR 1260(1) #2	7.15	218521	0.625 µg/mL
18) m,t AROCLOR 1260(2) #2	7.42	362496	0.677 µg/mL
19) m,t AROCLOR 1260(3) #2	7.70	398515	0.649 µg/mL
20) m,t AROCLOR 1260(4) #2	8.35	432647	0.639 µg/mL

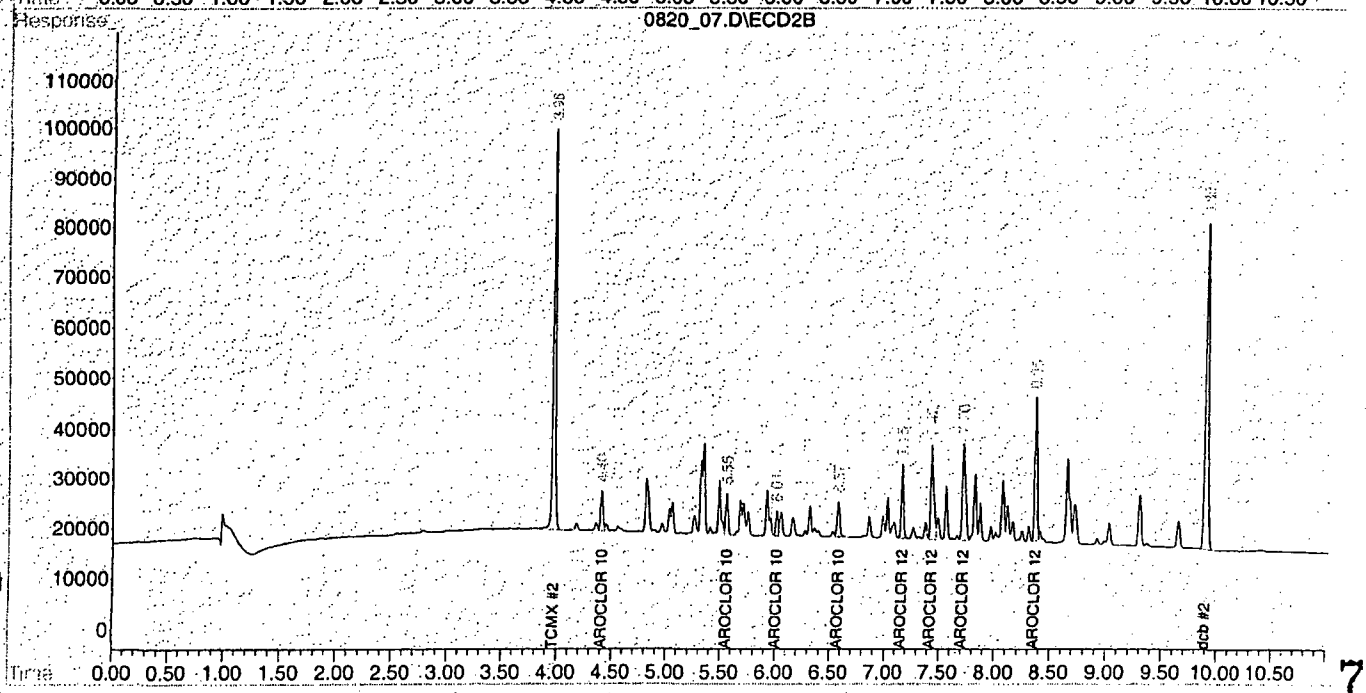
Quantitation Report

Signal #1 : C:\HPCHEM\2\DATA\082002\0820_07.D\ECD1A.CH Vial: 7
Signal #2 : C:\HPCHEM\2\DATA\082002\0820_07.D\ECD2B.CH
Acq On : 20 Aug 2002 12:23 pm Operator: 308
Sample : 1016/1260 .75ppm Inst : SVGC4
Misc : BS030104K30 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Aug 20 14:14 2002 Quant Results File: PCB20820.RES

Quant Method : C:\HPCHEM\2\METHODS\PCB20820.M (Chemstation Integrator)
Title :
Last Update : Tue Aug 20 14:14:14 2002
Response via : Multiple Level Calibration
DataAcq Meth : PCB20819.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





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Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\082002\0820_08.D\ECD1A.CH Vial: 8
Acq On : 20 Aug 2002 12:37 pm Operator: 308
Sample : 1016/1260 1.0ppm Inst : SVGC4
Misc : BS030104K30 Multiplr: 1.00
IntFile : EVENTS.E

Data File : C:\HPCHEM\2\DATA\082002\0820_08.D\ECD2B.CH Vial: 8
Acq On : 20 Aug 2002 12:37 pm Operator: 308
Sample : 1016/1260 1.0ppm Inst : SVGC4
Misc : BS030104K30 Multiplr: 1.00
IntFile : events2.e
Quant Time: Aug 20 14:15 2002 Quant Results File: PCB20820.RES

Quant Method : C:\HPCHEM\2\METHODS\PCB20820.M (Chemstation Integrator)
Title :
Last Update : Tue Aug 20 14:14:24 2002
Response via : Initial Calibration
DataAcq Meth : PCB20819.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) s TCMX	4.11	1561542	0.167 µg/mL
Spiked Amount 0.200	Range 41 - 145	Recovery =	83.50%
10) s DCB	10.60	1609170	0.171 µg/mL
Spiked Amount 0.200	Range 39 - 137	Recovery =	85.50%
12) s TCMX #2	3.96	1630544	0.179 µg/mL
Spiked Amount 0.200	Range 41 - 145	Recovery =	89.50%
21) s dcb #2	9.88	1802801	0.205 µg/mL
Spiked Amount 0.200	Range 39 - 137	Recovery =	102.50%
Target Compounds			
2) m,t AROCLOR 1016(1)	4.69	164043	0.854 µg/mLm
3) m,t AROCLOR 1016(2)	5.41	125620	0.845 µg/mL
4) m,t AROCLOR 1016(3)	5.77	287824	0.907 µg/mL
5) m,t AROCLOR 1016(4)	5.97	165893	0.909 µg/mL
6) m,t AROCLOR 1260(1)	7.63	105328	0.897 µg/mL
7) m,t AROCLOR 1260(2)	7.69	494322	0.811 µg/mL
8) m,t AROCLOR 1260(3)	8.51	229067	0.979 µg/mL
9) m,t AROCLOR 1260(4)	8.67	830217	0.922 µg/mL
13) m,t AROCLOR 1016(1) #2	4.40	149227	0.933 µg/mL
14) m,t AROCLOR 1016(2) #2	5.55	166432	0.984 µg/mL
15) m,t AROCLOR 1016(3) #2	6.00	102601	1.012 µg/mL
16) m,t AROCLOR 1016(4) #2	6.57	153819	1.002 µg/mL
17) m,t AROCLOR 1260(1) #2	7.15	286208	0.818 µg/mL
18) m,t AROCLOR 1260(2) #2	7.42	477804	0.892 µg/mL
19) m,t AROCLOR 1260(3) #2	7.70	532286	0.867 µg/mL
20) m,t AROCLOR 1260(4) #2	8.35	608076	0.899 µg/mL

(f)=RT Delta > 1/2 Window (m)=manual int.
0820_08.D PCB20820.M Tue Aug 20 15:35:47 2002 Page 1

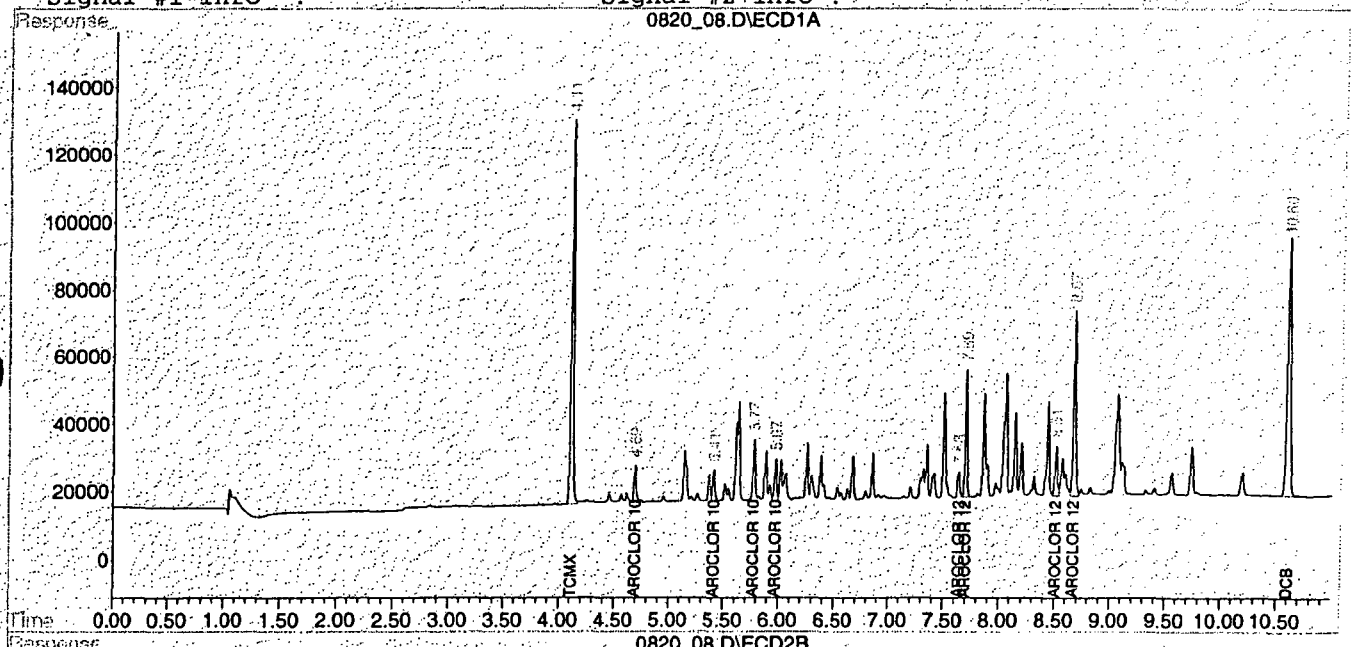
Quantitation Report

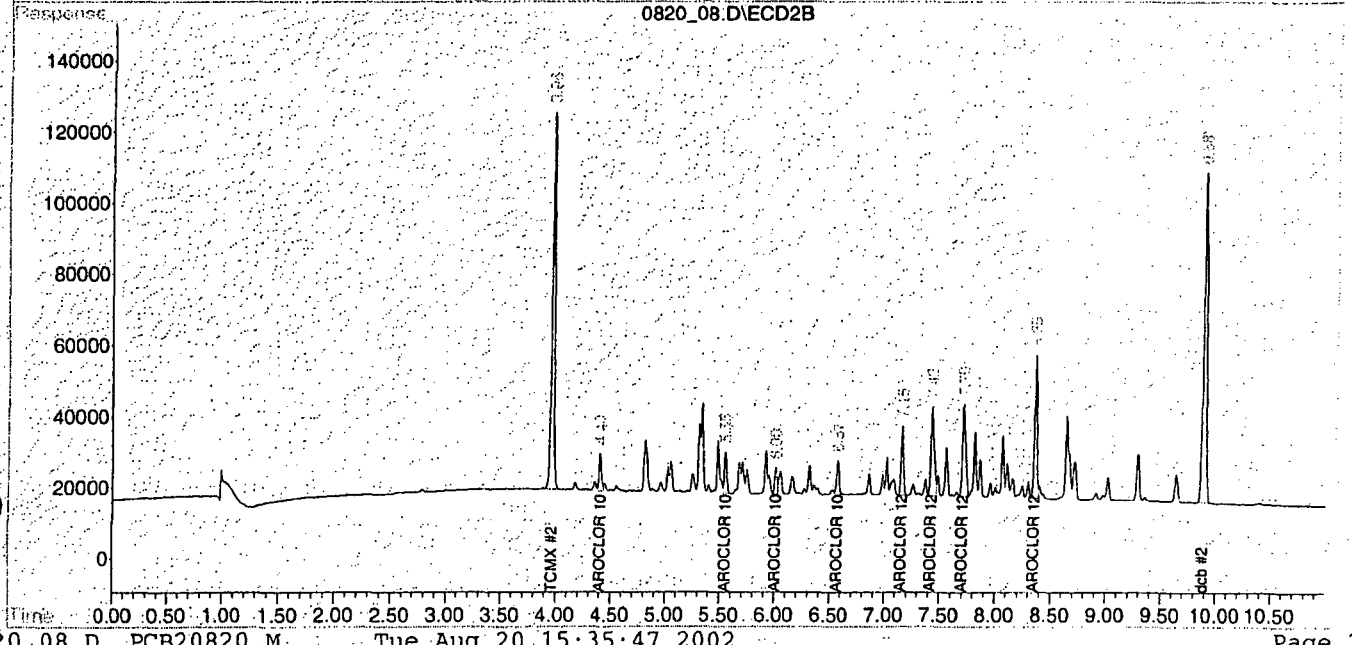
Data File : C:\HPCHEM\2\DATA\082002\0820_08.D\ECD1A.CH Vial: 8
Acq On : 20 Aug 2002 12:37 pm Operator: 308
Sample : 1016/1260 1.0ppm Inst : SVGC4
Misc : BS030104K30 Multiplr: 1.00
IntFile : EVENTS.E

Data File : C:\HPCHEM\2\DATA\082002\0820_08.D\ECD2B.CH Vial: 8
Acq On : 20 Aug 2002 12:37 pm Operator: 308
Sample : 1016/1260 1.0ppm Inst : SVGC4
Misc : BS030104K30 Multiplr: 1.00
IntFile : events2.e
Quant Time: Aug 20 14:15 2002 Quant Results File: PCB20820.RES

Quant Method : C:\HPCHEM\2\METHODS\PCB20820.M (Chemstation Integrator)
Title :
Last Update : Tue Aug 20 14:14:24 2002
Response via : Multiple Level Calibration
DataAcq Meth : PCB20819.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Response Factor Report SVGC4

Method : C:\HPCHEM\2\METHODS\1254L.M (Chemstation Integrator)
Title :
Last Update : Wed Aug 21 19:40:56 2002

8/21/02 KK

Calibration Files

1	=0821_02.D	2	=0821_03.D	3	=0821_04.D
4	=0821_05.D	5	=0821_06.D	6	=0821_08.D

~ 8/21/02

	Compound	1	2	3	4	5	6	Avg		%RSD
1) s	TCMX	5.014	6.146	5.732	5.162	5.489	5.650	5.532	E6	7.40
2) m,t	AROCLOR 1254(1)						1.214	1.214	E5	0.00
3) m,t	AROCLOR 1254(2)						2.233	2.233	E5	0.00
4) m,t	AROCLOR 1254(3)						2.512	2.512	E5	0.00
5) m,t	AROCLOR 1254(4)						4.839	4.839	E5	0.00
6) s	DCB	4.671	5.684	5.446	4.945	5.518	5.525	5.298	E6	7.49

Signal #2 Calibration Files

1	=0821_02.D	2	=0821_03.D	3	=0821_04.D
4	=0821_05.D	5	=0821_06.D	6	=0821_08.D

	Compound	1	2	3	4	5	6	Avg		%RSD
1) s	TCMX	1.181	1.391	1.313	1.167	1.319	1.317	1.281	E7	6.87
2) m,t	AROCLOR 1254(1)						1.721	1.721	E5	0.00
3) m,t	AROCLOR 1254(2)						4.312	4.312	E5	0.00
4) m,t	AROCLOR 1254(3)						7.600	7.600	E5	0.00
5) m,t	AROCLOR 1254(4)						8.430	8.430	E5	0.00
6) s	dcb	1.124	1.247	1.110	1.119	1.143	1.222	1.161	E7	5.05

TCMX + DCB from ~~PE~~ PCB20821 KK

(#) = Out of Range

Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\2\DATA\082102\0821_08.D\ECD1A.CH Vial: 16
Signal #2 : C:\HPCHEM\2\DATA\082102\0821_08.D\ECD2B.CH
Acq On : 21 Aug 2002 4:44 pm Operator: 308
Sample : 1254 1ppm Inst : SVGC4
Misc : BS030104K30 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Aug 21 19:40 2002 Quant Results File: 1254L.RES

Quant Method : C:\HPCHEM\2\METHODS\1254L.M (Chemstation Integrator)
Title :
Last Update : Wed Aug 21 19:40:35 2002
Response via : Initial Calibration
DataAcq Meth : PCB20819.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

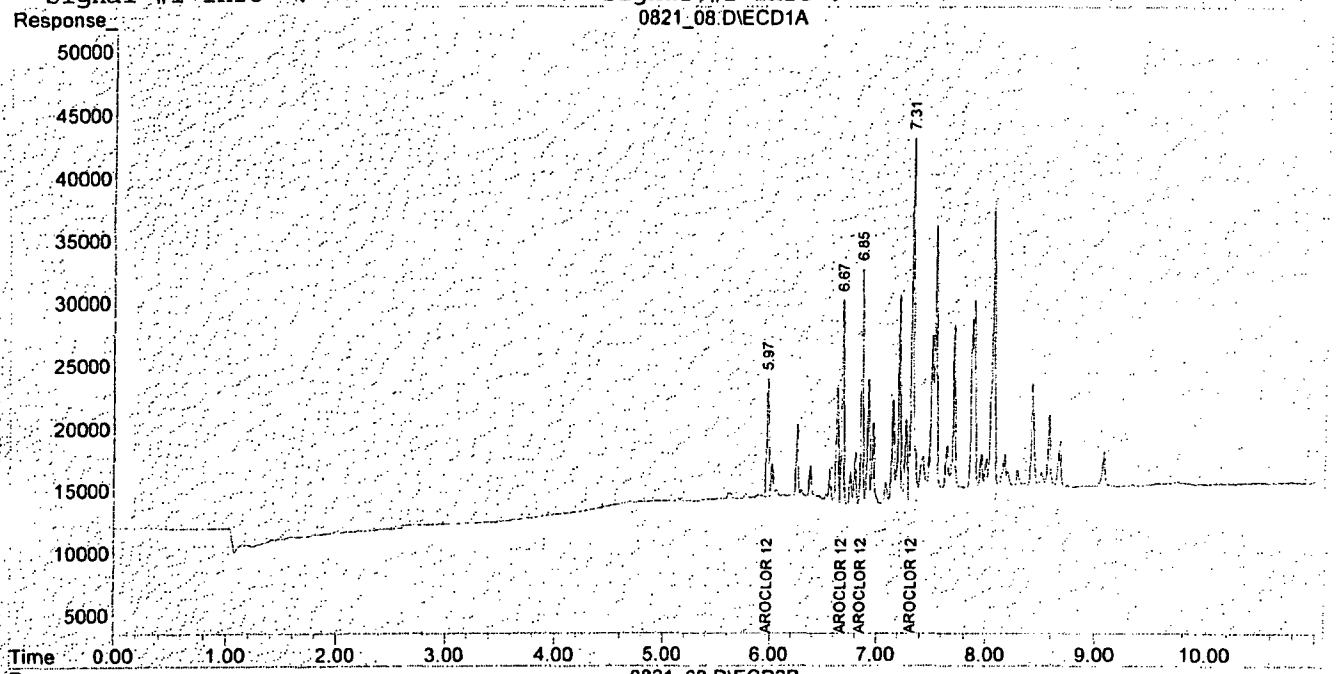
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) s TCMX	0.00	0	N.D. µg/mL
Spiked Amount 0.200	Range 41 - 145	Recovery =	0.00%#
6) s DCB	0.00	0	N.D. µg/mL
Spiked Amount 0.200	Range 39 - 137	Recovery =	0.00%#
8) s TCMX #2	0.00	0	N.D. µg/mL
Spiked Amount 0.200	Range 41 - 145	Recovery =	0.00%#
13) s dcb #2	0.00	0	N.D. µg/mL
Spiked Amount 0.200	Range 39 - 137	Recovery =	0.00%#
Target Compounds			
2) m,t AROCLOR 1254(1)	5.97	121398	1.048 µg/mL
3) m,t AROCLOR 1254(2)	6.67	223342	1.070 µg/mL
4) m,t AROCLOR 1254(3)	6.85	251154	1.034 µg/mL
5) m,t AROCLOR 1254(4)	7.31	483851	1.247 µg/mL
9) m,t AROCLOR 1254(1) #2	5.91	172095	1.056 µg/mL
10) m,t AROCLOR 1254(2) #2	6.30	431231	1.154 µg/mL
11) m,t AROCLOR 1254(3) #2	6.56	759964	1.210 µg/mL
12) m,t AROCLOR 1254(4) #2	6.97	842950	1.086 µg/mL

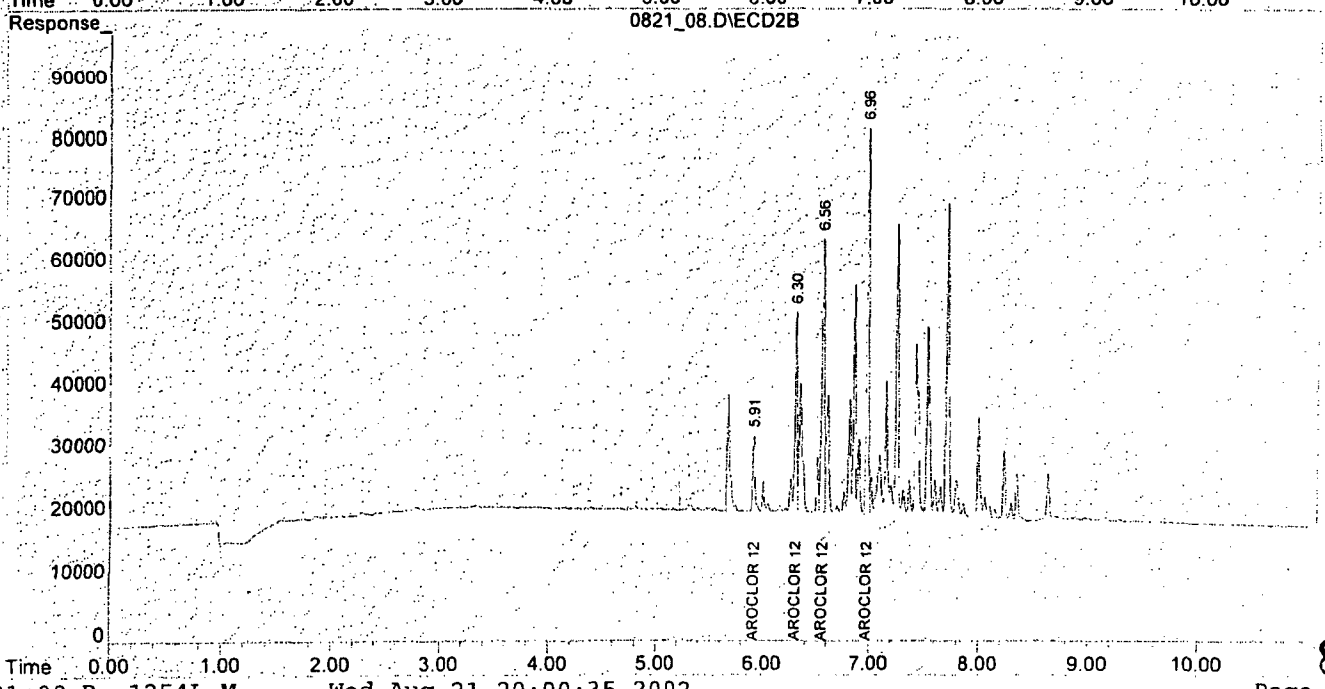
Quantitation Report

Signal #1 : C:\HPCHEM\2\DATA\082102\0821_08.D\ECD1A.CH Vial: 16
Signal #2 : C:\HPCHEM\2\DATA\082102\0821_08.D\ECD2B.CH
Acq On : 21 Aug 2002 4:44 pm Operator: 308
Sample : 1254 1ppm Inst : SVGC4
Misc : BS030104K30 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Aug 21 19:40 2002 Quant Results File: 1254L.RES

Quant Method : C:\HPCHEM\2\METHODS\1254L.M (Chemstation Integrator)
Title :
Last Update : Wed Aug 21 19:40:35 2002
Response via : Multiple Level Calibration
DataAcq Meth : PCB20819.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Total Solids

Date : 8/21/02
Time : 8:02 AM

Environmental Science Corporation
LABORATORY BENCH SHEET

Date Created : 8/20/02 11:45:13 AM Test Abbrev : TS WORKGROUP : **WG81051**
By Analyst : 036 Test Name : Total Solids (2540G)
EPA Method : 2540G Date Analyzed : 8/20/02 11:11:20 AM

ACCTNUM	SAMPLE #		Vessel No.	B Dish Weight	C Weight Wet Sample	A1 Final Weight (g)	A2 Final Weight (g)	(A1-B)*100 / C-B	100 - % TS = % Moist	QC Value (For QC Samples)
CIVILMO	L85927-01	SS	25	1.2313	12.5669	12.021	12.021	95.184198 %	4.8158015 %	0 %
CIVILMO	L85927-02	SS	26	1.2328	12.4881	10.2498	10.2497	80.113368 %	19.886631 %	0 %
CIVILMO	L85927-03	SS	27	1.2368	13.4777	10.8354	10.8354	78.414168 %	21.585831 %	0 %
CIVILMO	L85927-04	SS	28	1.2274	12.9576	10.5731	10.5731	79.672128 %	20.327871 %	0 %
CIVILMO	L85927-05	SS	29	1.2318	14.6106	12.0034	12.0034	80.512452 %	19.487547 %	0 %
ILGASKS	L86833-02	SS	30	1.2358	12.644	12.0959	12.0959	95.195561 %	4.8044389 %	0 %
	Blank		31	1.2323	1.2323	1.2314	1.2314	0%	0 %	0 %
	LCS		32	1.2317	11.2394	6.2342	6.2342	49.986510 %	50.013489 %	99.973 %
	L86833-02D	SS	33	1.2344	12.7796	12.2545	12.2545	95.451789 %	4.5482105 %	0.2688 %

LCS TV : 50
LCS LOT # : BW0627C009 Quality Control : Reviewed By _____ Date 08/21/02

Williams Gas Pipeline Central

13424 West 98th Street
Shawnee Mission,KS 66215

Alternate billing information:

Analysis/Container/Preservative

Chain of Custody
Page 1 of 1

Prepared by:
ENVIRONMENTAL SCIENCE CORP.
12065 Lebanon Road
Mt. Juliet, TN 37122
Phone (800) 767-5859
FAX (615) 758-5859

Report to: Mr. Mark Sullivan

Email: cfortey@atkinsbenham.com,

Project Description: Williams Buffalo PCB Project

City/State Collected: Harper County, Oklahoma

Phone: (913) 310-7625
FAX: (913) 310-7630

Client Project #: 2203401

Lab Project #: WILGASKS-ATKINS

Collected by (print): Bruce McKenzie

Site/Facility ID#: BUFFALO

P.O.#: —

Collected by (signature): BMcKenzie

Packed on Ice N ___ Y ✓

Rush? (Lab MUST Be Notified)
___ Same Day 200%
✓ Next Day 100%
___ Two Day 50%

Date Results Needed: 8-21-02

Email? ___No X Yes
FAX? ___No ___Yes

CoCode: WILGASKS (lab use only)
Template/Prelogin: T15458/ P61944
Cooler #:
Shipped Via: FedEX Standard

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	8082 WIPE 4oz Clr-NoPres	SV8082 PCB's 1L-Amb NoPres	SV8082 PCB's 4oz Clr-NoPres	Total Solids 4oz Clr-NoPres			Remarks/Contaminant	Sample # (lab only)
BUFEQ-01	Grab	GW	—	8/19/02	1005	1		X						L86533-01
BUFBS-01	Comp	SS	(0-0.5)	8/19/02	1015	2			X	X				02
		SS				1	X							

*Matrix: SS - Soil GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other_____

pH _____ Temp _____

Remarks: THIS IS A QC4 DATA PACKAGE PROJECT / SOILS ARE TO REPORT IN DRY WEIGHT.

Flow _____ Other _____

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Samples returned via: ☐ UPS ✓ FedEx ☐ Courier ☐	Condition: (lab use only)
Bruce McKenzie	8/19/02	1105			OK
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: 4°C Bottles Received: 3	
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 8/20/02 Time: 09:30	pH Checked: NCF:

Environmental Science Corporation

Mount Juliet, TN

For: Williams Gas Pipeline
Buffalo

Project #: 2203401

Login: L86934

Client Sample ID	Lab Sample ID.
BUFDL-01	L86934-01
BUFDL-02	L86934-02
BUFEQ-02	L86934-03

(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

EST. 1970

Environmental Science Corporation
Mount Juliet, TN

For: William Gas Pipeline Central
Project: Buffalo
Project # 2203401
QAD1494

SDG: L86934

September 10, 2002

Sample Receiving and handling

All samples were received at the correct temperature, in the proper containers, and with the appropriate preservatives. All method holding times were met.

METHOD – Polychlorinated Biphenyls by Method 8082

Laboratory Control Standard (LCS)

Samples L86934-01 through L86934-03 were analyzed in analytic batch WG81214. The laboratory control standard recovery associated with this sample was within laboratory control limits.

Matrix Spike and Matrix Spike Duplicate (MS/MSD)

For analytic batch WG81214, matrix spike and matrix spike duplicate analysis was performed on client sample L86934-01. The high concentration of Arochlor 1254 in the sample interfered with the ability to accurately recover Arochlor 1260.

For analytic batch WG81214, matrix spike and matrix spike duplicate analysis was also performed on the laboratory control sample. The spike recoveries and the relative percent difference were within laboratory control limits.

Blank Analysis
The method blanks and all continuing calibration blanks were below the method quantitation limit for all Arochlors.

Calibration

The SVGC#4 was initially calibrated on 8/21/02 for dual column analysis. The calibration verification standards were within method limits.

Environmental Science Corporation
Mount Juliet, TN

For: William Gas Pipeline Central
Project: Buffalo
Project # 2203401
QAD1494

SDG: L86934

Surrogates

The DCB surrogate was above the upper control limit on sample L86934-03. The surrogates were diluted out on samples L86934-01 and L86934-02. The high Arochlor concentration in sample L86934-01 interfered with the surrogate recovery in the matrix spike and matrix spike duplicate.

The surrogate recoveries were within laboratory control limits for the method blank, laboratory control sample, and the laboratory control samples duplicate.

Susan Murphy

Susan Murphy

Quality Control Specialist
Environmental Science Corp.

ENVIRONMENTAL
SCIENCE CORP.

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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. Mark Sullivan
Williams Gas Pipeline Central
13424 West 98th Street
Shawnee Mission, KS 66215

August 22, 2002

ESC Sample # : L86934-01

Site ID : BUFFALO

Project # : 2203401

Date Received : August 21, 2002
Description : Williams Buffalo PCB Project

Sample ID : BUFDL-01

Collected By : Bruce McKenzie
Collection Date : 08/20/02 08:45

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	61.5		%	2540G	08/21/02	1
Polychlorinated Biphenyls						
PCB 1016	BDL	410	mg/kg	8082	08/21/02	5000
PCB 1221	BDL	410	mg/kg	8082	08/21/02	5000
PCB 1232	BDL	410	mg/kg	8082	08/21/02	5000
PCB 1242	BDL	410	mg/kg	8082	08/21/02	5000
PCB 1248	BDL	410	mg/kg	8082	08/21/02	5000
PCB 1254	9600	410	mg/kg	8082	08/21/02	5000
PCB 1260	BDL	410	mg/kg	8082	08/21/02	5000
PCBs Surrogates						
Decachlorobiphenyl	0.00		% Rec.	8082	08/21/02	5000
Tetrachloro-m-xylene	0.00		% Rec.	8082	08/21/02	5000

Tom Mellette, ESC Representative

Results listed are dry weight basis.
BDL - Below Detection Limit
Det. Limit - Estimated Quantitation Limit(EQL)

Laboratory Certification Numbers:
A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
KY - 90010, KYUST - 0016, NC - ENV375,DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233

Note:
This report shall not be reproduced, except in full, without the written approval from ESC.
The reported analytical results relate only to the sample submitted

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REPORT OF ANALYSIS

Mr. Mark Sullivan
Williams Gas Pipeline Central
13424 West 98th Street
Shawnee Mission, KS 66215

August 22, 2002

ESC Sample # : L86934-02

Site ID : BUFFALO

Project # : 2203401

Date Received : August 21, 2002
Description : Williams Buffalo PCB Project

Sample ID : BUFDL-02

Collected By : Bruce McKenzie
Collection Date : 08/20/02 09:15

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Polychlorinated Biphenyls						
PCB 1016	BDL	500	ug/wipe	8082	08/21/02	500
PCB 1221	BDL	500	ug/wipe	8082	08/21/02	500
PCB 1232	BDL	500	ug/wipe	8082	08/21/02	500
PCB 1242	BDL	500	ug/wipe	8082	08/21/02	500
PCB 1248	BDL	500	ug/wipe	8082	08/21/02	500
PCB 1254	2300	500	ug/wipe	8082	08/21/02	500
PCB 1260	BDL	500	ug/wipe	8082	08/21/02	500

Tom Mellette, ESC Representative

BDL - Below Detection Limit
Det. Limit - Estimated Quantitation Limit(EQL)

Laboratory Certification Numbers:
A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
KY - 90010, KYUST - 0016, NC - ENV375,DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233

Note:
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REPORT OF ANALYSIS

Mr. Mark Sullivan
Williams Gas Pipeline Central
13424 West 98th Street
Shawnee Mission, KS 66215

August 22, 2002

ESC Sample # : L86934-03

Date Received : August 21, 2002
Description : Williams Buffalo PCB Project

Site ID : BUFFALO

Sample ID : BUFEQ-02

Project # : 2203401

Collected By : Bruce McKenzie
Collection Date : 08/20/02 09:25

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Polychlorinated Biphenyls						
PCB 1016	BDL	20.	ug/wipe	8082	08/21/02	20
PCB 1221	BDL	20.	ug/wipe	8082	08/21/02	20
PCB 1232	BDL	20.	ug/wipe	8082	08/21/02	20
PCB 1242	BDL	20.	ug/wipe	8082	08/21/02	20
PCB 1248	BDL	20.	ug/wipe	8082	08/21/02	20
PCB 1254	43.	20.	ug/wipe	8082	08/21/02	20
PCB 1260	BDL	20.	ug/wipe	8082	08/21/02	20

Tom Mellette, ESC Representative

BDL - Below Detection Limit
Det. Limit - Estimated Quantitation Limit(EQL)

Laboratory Certification Numbers:
A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
KY - 90010, KYUST - 0016, NC - ENV375,DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233

Note:
The reported analytical results relate only to the sample submitted.
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Attachment A
List of Analytes with QC Qualifiers

Sample #	Analyte	Qualifier
L86934-01	PCB 1016	FH
	PCB 1221	FH
	PCB 1232	FH
	PCB 1242	FH
	PCB 1248	FH
	PCB 1254	FH
	PCB 1260	FH
	Decachlorobiphenyl	J7FH
	Tetrachloro-m-xylene	J7FH
L86934-02	PCB 1016	FH
	PCB 1221	FH
	PCB 1232	FH
	PCB 1242	FH
	PCB 1248	FH
	PCB 1254	FH
	PCB 1260	FH
L86934-03	PCB 1016	FH
	PCB 1221	FH
	PCB 1232	FH
	PCB 1242	FH
	PCB 1248	FH
	PCB 1254	FH
	PCB 1260	FH

Attachment B
Explanation of QC Qualifier Codes

Qualifier	Meaning
H	RIN(EPA)-Re-Analyzed: The indicated analytical results were generated from a reinjection of the same sample extract or aliquot.
F	SRN (EPA) - Diluted: The original sample was diluted due to high amounts of one or more target analytes. All associated method analytes will be subject to an elevated detection limit relative to the dilution factor.
J7	Surrogate recovery limits cannot be evaluated; surrogates were diluted out

Qualifier Report Information

ESC utilizes sample and result qualifiers as set forth by the EPA Contract Laboratory Program and as required by most certifying bodies including NELAC. In addition to the EPA qualifiers adopted by ESC, we have implemented ESC qualifiers to provide more information pertaining to our analytical results. Each qualifier is designated in the qualifier explanation as either EPA or ESC. Data qualifiers are intended to provide the ESC client with more detailed information concerning the potential bias of reported data. Because of the wide range of constituents and variety of matrices incorporated by most EPA methods, it is common for some compounds to fall outside of established ranges. These exceptions are evaluated and all reported data is valid and useable unless qualified as 'R' (Rejected).

Definitions

Accuracy - The relationship of the observed value of a known sample to the true value of a known sample. Represented by percent recovery and relevant to samples such as: control samples, matrix spike recoveries, surrogate recoveries, etc.

Precision - The agreement between a set of samples or between duplicate samples. Relates to how close together the results are and is represented by Relative Percent Differrence.

Surrogate - Organic compounds that are similar in chemical composition, extraction, and chromotography to analytes of interest. The surrogates are used to determine the probable response of the group of analytes that are chemically related to the surrogate compound. Surrogates are added to the sample and carried through all stages of preparation and analyses.

TIC - Tentatively Identified Compound: Compounds detected in samples that are not target compounds, internal standards, system monitoring compounds, or surrogates.

Summary of Remarks For Samples Printed
08/22/02 at 16:12:56

TSR Signing Reports: 690

Sample: L86934-01 Account: WILGASKS Received: 08/21/02 09:30 Due Date: 08/22/02 00:00
QC4 Project
Sample: L86934-02 Account: WILGASKS Received: 08/21/02 09:30 Due Date: 08/22/02 00:00
QC4 Project
Sample: L86934-03 Account: WILGASKS Received: 08/21/02 09:30 Due Date: 08/22/02 00:00
QC4 Project

Polychlorinated Biphenyls
by
Method 8082

U.S. EPA - CLP

COVER PAGE - PESTICIDES/PCB ANALYSES DATA PACKAGE

Lab Name: Environmental Science Corporation Contract: Willams Gas & Pipeline

Lab Code: TN00003 Case No.: QAD1494 SAS No.: SDG No.: L86934

Matrix: Soil Analytic Batch: WG81214

EPA Sample No.	Lab Sample ID.
BUFDL-01	L86934-01
BUFDL-02	L86934-02
BUFEQ-02	L86934-03

Comments:

I certify that this data package accurately represents the information in the raw data found herein, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: William Moir

Date: 9/16/02 WILLIAMS MANAGER

1D

EPA SAMPLE NO.

PESTICIDE ORGANICS ANALYSIS DATA SHEET

Blank 1x WG81214

Lab Name: Environmental Science Corpor Contract: Willams Gas & Pipeline

Lab Code: TN00003 Case No.: QAD1494 SAS No.: _____ SDG No.: L86934

Matrix: (soil/water) Soil Lab Sample ID: Blank 1x WG81214

Sample wt/vol: 30 (g/mL) g Lab File ID: 0821_09.D

% Moisture: _____ decanted: (Y/N) _____ Date Received: _____

Extraction: (SepF/Cont/Sonc) Sonc Date Extracted: 08/21/02

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 08/21/02

Injection Volume: _____ (uL) Dilution Factor: 1

GPC Cleanup: (Y/N) N pH: _____ Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) mg/kg	Q
12674-11-2 - - - - -	Aroclor-1016	0.20	U
11104-28-2 - - - - -	Aroclor-1221	0.20	U
11141-16-5 - - - - -	Aroclor-1232	0.40	U
53469-21-9 - - - - -	Aroclor-1242	0.20	U
12672-29-6 - - - - -	Aroclor-1248	0.20	U
11097-69-1 - - - - -	Aroclor-1254	0.20	U
11096-82-5 - - - - -	Aroclor-1260	0.20	U

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

LCS 1x WG81214

Lab Name: Environmental Science Corpor Contract: Willams Gas & Pipeline

Lab Code: TN00003 Case No.: QAD1494 SAS No.: _____ SDG No.: L86934

Matrix: (soil/water) Soil Lab Sample ID: LCS 1x WG81214

Sample wt/vol: 30 (g/mL) g Lab File ID: 0821_10.D

% Moisture: _____ decanted: (Y/N) _____ Date Received: _____

Extraction: (SepF/Cont/Sonc) Sonc Date Extracted: 08/21/02

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 08/21/02

Injection Volume: _____ (uL) Dilution Factor: 1

GPC Cleanup: (Y/N) N pH: _____ Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) mg/kg	Q
12674-11-2	Aroclor-1016	0.20	U
11104-28-2	Aroclor-1221	0.20	U
11141-16-5	Aroclor-1232	0.20	U
53469-21-9	Aroclor-1242	0.20	U
12672-29-6	Aroclor-1248	0.20	U
11097-69-1	Aroclor-1254	0.20	U
11096-82-5	Aroclor-1260	0.61	

1D

EPA SAMPLE NO.

PESTICIDE ORGANICS ANALYSIS DATA SHEET

LCSD 1x WG81214

Lab Name: Environmental Science Corpor Contract: Willams Gas & Pipeline

Lab Code: TN00003 Case No.: QAD1494 SAS No.: _____ SDG No.: L86934

Matrix: (soil/water) Soil Lab Sample ID: LCSD 1x WG81214

Sample wt/vol: 30 (g/mL) g Lab File ID: 0821_11A.D

% Moisture: _____ decanted: (Y/N) _____ Date Received: _____

Extraction: (SepF/Cont/Sonc) Sonc Date Extracted: 08/21/02

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 08/21/02

Injection Volume: _____ (uL) Dilution Factor: 1

GPC Cleanup: (Y/N) N pH: _____ Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) mg/kg	Q
12674-11-2 - - - - -	Aroclor-1016	0.20	U
11104-28-2 - - - - -	Aroclor-1221	0.20	U
11141-16-5 - - - - -	Aroclor-1232	0.20	U
53469-21-9 - - - - -	Aroclor-1242	0.20	U
12672-29-6 - - - - -	Aroclor-1248	0.20	U
11097-69-1 - - - - -	Aroclor-1254	0.20	U
11096-82-5 - - - - -	Aroclor-1260	0.52	

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MS 10x WG81214

Lab Name: Environmental Science Corpor Contract: Willams Gas & Pipeline

Lab Code: TN00003 Case No.: QAD1494 SAS No.: _____ SDG No.: L86934

Matrix: (soil/water) Soil Lab Sample ID: MS 10x WG81214

Sample wt/vol: 30 (g/mL) g Lab File ID: 0821_12.D

% Moisture: _____ decanted: (Y/N) _____ Date Received: _____

Extraction: (SepF/Cont/Sonc) Sonc Date Extracted: 08/21/02

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 08/21/02

Injection Volume: _____ (uL) Dilution Factor: 10

GPC Cleanup: (Y/N) N pH: _____ Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) mg/kg	Q
12674-11-2	Aroclor-1016	0.20	U
11104-28-2	Aroclor-1221	0.20	U
11141-16-5	Aroclor-1232	0.20	U
53469-21-9	Aroclor-1242	0.20	U
12672-29-6	Aroclor-1248	0.20	U
11097-69-1	Aroclor-1254	0.20	U
11096-82-5	Aroclor-1260	58.36	

1D

EPA SAMPLE NO.

PESTICIDE ORGANICS ANALYSIS DATA SHEET

MSD 10x WG81214

Lab Name: Environmental Science Corpor Contract: Willams Gas & Pipeline

Lab Code: TN00003 Case No.: QAD1494 SAS No.: _____ SDG No.: L86934

Matrix: (soil/water) Soil Lab Sample ID: MSD 10x WG81214

Sample wt/vol: 30 (g/mL) g Lab File ID: 0821_13.D

% Moisture: _____ decanted: (Y/N) _____ Date Received: _____

Extraction: (SepF/Cont/Sonc) Sonc Date Extracted: 08/21/02

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 08/21/02

Injection Volume: _____ (uL) Dilution Factor: 10

GPC Cleanup: (Y/N) N pH: _____ Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) mg/kg	Q
12674-11-2	Aroclor-1016	0.20	U
11104-28-2	Aroclor-1221	0.20	U
11141-16-5	Aroclor-1232	0.20	U
53469-21-9	Aroclor-1242	0.20	U
12672-29-6	Aroclor-1248	0.20	U
11097-69-1	Aroclor-1254	0.20	U
11096-82-5	Aroclor-1260	#DIV/0!	

2F

SOIL PESTICIDE SURROGATE RECOVERY

Lab Name: Environmental Science Corporation Contract: Willams Gas & Pipeline

Lab Code: TN00003 Case No.: QAD1494 SAS No.: _____ SDG No.: L86934

GC Column(1): RTX-CLP Pest 1 GC Column(2): RTX-CLP Pest 2

	Lab SAMPLE NO.	TCX 1 %REC	#	TCX 2 %REC	#	DCB 1 %REC	#	DCB 2 %REC	#	OTHER (2)	TOT OUT
01	Blank 1x WG81214	96%		96%		101%		103%			0
02	LCS 1x WG81214	99%		100%		105%		104%			0
03	LCSD 1x WG81214	88%		88%		92%		96%			0
04	MS 10x WG81214	451%	*	251%	*	452%	*	311%	*		3
05	MSD 10x WG81214	253%	*	533%	*	0%	*	0%	*		3
06	L86934-03	128%		245%	*	131%		285%	*		1
07	L86934-02	0%	D	0%	D	0%	D	0%	D		0
08	L86934-01	0%	D	0%	D	0%	D	0%	D		0
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	ADVISORY QC LIMITS
TCX = Tetrachloro-m-xylene	(41-145)
DCB = Decachlorobiphenyl	(39-137)

Column to be used to flag recovery values

* Values outside of contract required QC limits

3F

SOIL PESTICIDE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Environmental Science Corporation Contract: Willams Gas & Pipeline

Lab Code: TN00003 Case No.: QAD1494 SAS No.: _____ SDG No.: L86934

Matrix Spike - Lab Sample No.: LCS/LCSD

COMPOUND		SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC. LIMITS REC.
1260						
	1	0.5	0 U	0.507		
	2	0.5	0 U	0.564		
	3	0.5	0 U	0.723		
	4	0.5	0 U	0.657	122.6%	49-142

COMPOUND		SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1260							
	1	0.5	0.492				
	2	0.5	0.515				
	3	0.5	0.543				
	4	0.5	0.680	111.5%	9	49-142	12

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

* Values outside of QC limits

RPD: 0 out of 1 outside limits

Spike Recovery: 0 out of 2 outside limits

COMMENTS: _____

4C

EPA SAMPLE NO.

PESTICIDE METHOD BLANK SUMMARY

Blank 1x WG81214

Lab Name: Environmental Science Corporati Contract: Willams Gas & Pipeline

Lab Code: TN00003 Case No.: QAD149 SAS No.: _____ SDG No.: L86934

Lab Sample ID: Blank 1x WG81214 Lab File ID: 0821_09.D

Matrix: (soil/water) Soil Extraction:(SepF/Cont/Sonc) Sonc

Acid Cleanup: (Y/N) Y Date Extracted: 08/21/02

Date Analyzed (1): 08/21/02 Date Analyzed (2): 08/21/02

Time Analyzed (1): 11:58 Time Analyzed (2): 11:58

Instrument ID (1): SVGC#4 Instrument ID (2): SVGC#4

GC Column(1): RTX-CLP Pest 1 GC Column(2): RTX-CLP Pest 2 ID: .32 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	Blank 1x WG81214	Blank 1x WG81214	08/21/02	08/21/02
02	LCS 1x WG81214	LCS 1x WG81214	08/21/02	08/21/02
03	LCSD 1x WG81214	LCSD 1x WG81214	08/21/02	08/21/02
04	MS 10x WG81214	MS 10x WG81214	08/21/02	08/21/02
05	MSD 10x WG81214	MSD 10x WG81214	08/21/02	08/21/02
06	BUFEQ-02	L86934-03	08/21/02	08/21/02
07	BUFDL-02	L86934-02	08/21/02	08/21/02
08	BUFDL-01	L86934-01	08/21/02	08/21/02
09				
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27				

COMMENTS:

6F

PESTICIDE INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: Environmental Science Corporation Contract: Willams Gas & Pipeline

Lab Code: TN00003 Case No.: QAD1494 SAS No.: SDG No.: L86934

Insrument ID: SVGC#4 Date(s) Analyzed: 08/21/02 08/21/02

GC Column: RTX CLP Pest 1

First Column: COMPOUND	AMOUNT (ppm)	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR
Aroclor 1016	0.5	*1	4.69	4.64	4.74	1.185 E5
		*2	5.41	5.36	5.46	0.910 E5
		*3	5.77	5.72	5.82	1.988 E5
		4	5.97	5.92	6.02	1.011 E5
		5				
Aroclor 1254	1.0	*1	5.97	5.92	6.02	1.214 E5
		*2	6.67	6.62	6.72	2.233 E5
		*3	6.85	6.80	6.90	2.512 E5
		4	7.31	7.26	7.36	4.839 E5
		5				
Aroclor 1260	0.5	*1	7.64	7.59	7.69	0.889 E5
		*2	7.70	7.65	7.75	3.586 E5
		*3	8.51	8.46	8.56	1.448 E5
		4	8.67	8.62	8.72	5.421 E5
		5				

Second Column COMPOUND	AMOUNT (ppm)	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR
Aroclor 1016	0.5	*1	4.40	4.35	4.45	2.046 E5
		*2	5.54	5.49	5.59	2.830 E5
		*3	6.00	5.95	6.05	1.725 E5
		4	6.56	6.51	6.61	2.698 E5
		5				
Aroclor 1254	1.0	*1	5.91	5.86	5.96	1.721 E5
		*2	6.30	6.25	6.35	4.312 E5
		*3	6.56	6.51	6.61	7.600 E5
		4	6.97	6.92	7.02	8.430 E5
		5				
Aroclor 1260	0.5	*1	7.14	7.09	7.19	6.461 E5
		*2	7.41	7.36	7.46	1.022 E6
		*3	7.70	7.65	7.75	1.203 E6
		4	8.34	8.29	8.39	1.297 E6
		5				

* Denotes required peaks

7E

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: Environmental Science Corporation Contract: Willams Gas & Pipeline

Lab Code: TN00003 Case No.: QAD1494 SAS No.: SDG No.: L86934

Primary Analysis: Init. Calib. Date(s):

Arochlor 1016/1260 Date Analyzed: 08/21/02

Instrument: SVGC#4 Time Analyzed: 20:59

Lab File ID: 0821_20.D

Archlor 1254 Date Analyzed:

Lab File ID: Time Analyzed:

First Column: COMPOUND		RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
Arochlor 1016	1	4.70	4.64	4.74	0.472		
	2	5.42	5.36	5.46	0.491		
	3	5.78	5.72	5.82	0.486		
	4	5.98	5.92	6.02	0.523	0.500	1
Arochlor 1254	1						
	2						
	3						
	4						
Arochlor 1260	1	5.98	7.59	7.69	0.440		
	2	7.64	7.65	7.75	0.514		
	3	7.70	8.46	8.56	0.489		
	4	8.51	8.62	8.72	0.566	0.500	0

Second Column: COMPOUND		RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
Arochlor 1016	1	4.40	4.40	4.35	0.475		
	2	5.55	5.54	5.49	0.456		
	3	6.00	6.00	5.95	0.448		
	4	6.57	6.56	6.51	0.476	0.500	7
Arochlor 1254	1						
	2						
	3						
	4						
Arochlor 1260	1	7.15	7.14	7.09	0.457		
	2	7.42	7.41	7.36	0.470		
	3	7.70	7.70	7.65	0.532		
	4	8.35	8.34	8.29	0.532	0.500	0

8D

PESTICIDE ANALYTICAL SEQUENCE

Lab Name: Environmental Science Corporation Contract: Willams Gas & Pipeline

Lab Code: TN00003 Case No.: QAD1494 SAS No.: _____ SDG No.: L86934

GC Column: RTX-CLP Pest 1 Init. Calib. Date(s): _____ _____

Instrument ID: SVGC#4

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION

TCX: 4.12 DCB: 10.63

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	TXC RT	#	DCB RT	#
01	Blank 1x WG81214	Blank 1x WG8121	08/21/02	16:58	4.11		10.61	
02	LCS 1x WG81214	LCS 1x WG81214	08/21/02	17:12	4.11		10.61	
03	LCSD 1x WG81214	LCSD 1x WG81214	08/21/02	18:59	4.12		10.62	
04	MS 10x WG81214	MS 10x WG81214	08/21/02	18:00	4.12		10.63	
05	MSD 10x WG81214	MSD 10x WG81214	08/21/02	18:14	4.12		0.00	*
06	BUFEQ-02	L86934-03	08/21/02	19:14	4.12		10.63	
07	BUFDL-02	L86934-02	08/21/02	0:00	0	*	0.00	*
08	BUFDL-01	L86934-01	08/21/02	0:00	0	*	0.00	*
09								
10								
11								
12								
13								
14								
15								
16								
17								
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25								
26								
27								
28								
29								
30								
31								
32								

QC LIMITS

TCX = Tetrachloro-m-xylene (± 0.05 MINUTES)

DCB = Decachlorobiphenyl (± 0.10 MINUTES)

Column used to flag retention time values with an asterisk.

* Values outside of QC limits.

10B

PESTICIDE IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

EPA SAMPLE NO.

BUFEQ-02

Lab Name: Environmental Science Corporation Contract: Willams Gas & Pipeline

Lab Code: TN00003 Case No.: _____ SAS No.: _____ SDG No: L86934

Lab Sample ID: L86934-03 Date(s) Analyzed: 08/21/02 08/21/02

Instrument ID(1): SVGC#4 Instrument ID (2): SVGC#4

GC Column(1): RTX-CLP Pest 1 (mm) C Column(2): RTX-CLP Pest 2

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATIO	MEAN CONCENTRATION **	%D
Arochlor 1254	1	5.97	5.92	6.02	3.61		
	2	6.68	6.62	6.72	4.23		
COLUMN 1	3	6.86	6.80	6.90	4.59		
	4	7.32	7.26	7.36	4.54	4.24425	
	1	5.91	5.86	5.96	3.89		
	2	6.31	6.25	6.35	4.16		
COLUMN 2	3	6.57	6.51	6.61	4.47		
	4	6.97	6.92	7.02	4.52	4.258	0.3
	1						
	2						
	3						
COLUMN 1	4						
	5						
	1						
	2						
	3						
COLUMN 2	4						
	5						
	1						
	2						
	3						
COLUMN 1	4						
	5						
	1						
	2						
	3						
COLUMN 2	4						
	5						

** Prep factors and dryness factor have not been applied.
At least 3 peaks are required for identification of multicomponent analytes

10B

PESTICIDE IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

EPA SAMPLE NO.

BUFDL-02

Lab Name: Environmental Science Corporation Contract: Willams Gas & Pipeline

Lab Code: TN00003 Case No.: _____ SAS No.: _____ SDG No: L86934

Lab Sample ID: L86934-02 Date(s) Analyzed: 08/21/02 08/21/02

Instrument ID(1): SVGC#4 Instrument ID (2): SVGC#4

GC Column(1): RTX-CLP Pest 1 (mm) C Column(2): RTX-CLP Pest 2

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATIO	MEAN CONCENTRATION **	%D
Arochlor 1254	1	5.97	5.92	6.02	204.39		
	2	6.68	6.62	6.72	222.42		
COLUMN 1	3	6.86	6.80	6.90	227.93		
	4	7.32	7.26	7.36	238.42	223.28625	
	1	5.91	5.86	5.96	192.89		
	2	6.31	6.25	6.35	231.88		
COLUMN 2	3	6.56	6.51	6.61	241.27		
	4	6.97	6.92	7.02	241.43	226.86675	1.6
	1						
	2						
	3						
COLUMN 1	4						
	5						
	1						
	2						
	3						
COLUMN 2	4						
	5						
	1						
	2						
	3						
COLUMN 1	4						
	5						
	1						
	2						
	3						
COLUMN 2	4						
	5						

** Prep factors and dryness factor have not been applied.
At least 3 peaks are required for identification of multicomponent analytes

10B

PESTICIDE IDENTIFICATION SUMMARY FOR MULTICOMPONENT ANALYTES

EPA SAMPLE NO.

BUFDL-01

Lab Name: Environmental Science Corporation Contract: Willams Gas & Pipeline

Lab Code: TN00003 Case No.: _____ SAS No.: _____ SDG No: L86934

Lab Sample ID: L86934-01 Date(s) Analyzed: 08/21/02 08/21/02

Instrument ID(1): SVGC#4 Instrument ID (2): SVGC#4

GC Column(1): RTX-CLP Pest 1 (mm) C Column(2): RTX-CLP Pest 2

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATIO	MEAN CONCENTRATION **	%D
Arochlor 1254	1	5.98	5.92	6.02	2454.93		
	2	6.68	6.62	6.72	2887.20		
COLUMN 1	3	6.86	6.80	6.90	2924.25		
	4	7.32	7.26	7.36	2627.83	2723.55175	
	1	5.91	5.86	5.96	2762.93		
	2	6.31	6.25	6.35	2932.64		
COLUMN 2	3	6.57	6.51	6.61	2903.04		
	4	6.97	6.92	7.02	3213.48	2953.022	8.4
	1						
	2						
	3						
COLUMN 1	4						
	5						
	1						
	2						
	3						
COLUMN 2	4						
	5						
	1						
	2						
	3						
COLUMN 1	4						
	5						
	1						
	2						
	3						
COLUMN 2	4						
	5						

** Prep factors and dryness factor have not been applied.

At least 3 peaks are required for identification of multicomponent analytes

LABORATORY CONTROL SAMPLE
WG81214

Lab Name: Environmental Science Corporation Contract: Willams Gas & Pipeline

Lab Code: TN00003 Case No.: QAD1494 SAS No.: SDG No.: L86934

Solid LCS Source: Lab File ID: 0821_10.D

Aqueous LCS Source:

Analyte		True	Found	%R	Control Limits		Q
Arochlor 1260	1	0.5	0.507				
	2	0.5	0.564				
	3	0.5	0.723				
	4	0.5	0.657	122.6%	64%	129%	

Raw Data

SOILS/SOLIDS EXTRACTION LOG

Environmental Science Corp.

DATE 08/21/02

NaSO4 Lot # 8132 ANALYST GR419 JNH

rogate Std # 8082 Solvent Lot # 8207 (MeCl2) Acetone Hexane MTBE Other ____

Solvent Lot # 8199 MeCl2 Acetone (Hexane) MTBE Other ____ 1.0mL

M. Spike Std # 7740 M.Spike Vol. Used 1.0mL LC Spike Std# SAME LC Spike Vol. Used ~~0.5ml~~

EXTRACTION METHOD 3550 FOR ANALYSIS METHOD 8082 SOP# 330705

Sample #	Wet Weight Extracted	Solvent Volume Used	Solvent Volume Rec.	Final Volume	Surr. Volume Added	Remarks/Observations
Method Blank	30.00	300ml	≈260ml	10.0ml	1.0ml	50ml HEXANE XA
LCS	30.00					
LCSD	30.00					Acid clean-up
MS L86934-01	5~~30~~.28					
MSD	5~~30~~.28					
1 L86934-01	5~~30~~.11					
2 -02	30. WIPE					
3 -03	30 WIPE					
4						
5						
6						
7						
8						
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13						
14						
15						
16						
17						
18						
19						
20						

G. Henley 8-21-02

Reviewed by: G. Henley

Remarks/Observations: (Con't on back if nec.)

Injection Log

Directory: C:\HPCHEM\2\DATA\082102

Svgc4 8/22/02 KK

PCB20821 1254L

KK 8/22/02

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	1	0821_01.D	1.	Hexane		21 Aug 2002 15:04
2	2	0821_02.D	1.	1016/1260 .05ppm	BS030104K30	21 Aug 2002 15:19
3	3	0821_03.D	1.	1016/1260 .10ppm	BS030104K30	21 Aug 2002 15:33
4	4	0821_04.D	1.	1016/1260 .25ppm	BS030104K30	21 Aug 2002 15:47
5	5	0821_05.D	1.	1016/1260 .50ppm	BS030104K30	21 Aug 2002 16:01
6	6	0821_06.D	1.	1016/1260 .75ppm	BS030104K30	21 Aug 2002 16:15
7	7	0821_07.D	1.	1016/1260 1.0ppm	BS030104K30	21 Aug 2002 16:30
8	16	0821_08.D	1.	1254 1ppm	BS030104K30	21 Aug 2002 16:44
9	8	0821_09.D	1.	Blank 1x WG81214 30-10	surr ESC8081	21 Aug 2002 16:58
10	9	0821_10.D	1.	LCS 1x WG81214 30-10	spk ESC7740	21 Aug 2002 17:12
11	10	0821_11.D	1.	LCSD 1x WG81214 30-10	spk ESC7740	21 Aug 2002 17:46
12	10	0821_11A.D	1.	LCSD 1x WG81214 30-10	spk ESC7740	21 Aug 2002 18:59
13	11	0821_12.D	10.	MS 10x WG81214 L86934-01 5-10	spk ESC7740	21 Aug 2002 18:00
14	12	0821_13.D	10.	MSD 10x WG81214 L86934-01 5-10	spk ESC7740	21 Aug 2002 18:14
15	1	0821_14.D	1.	Hexane		21 Aug 2002 18:45
16	11	0821_15.D	20.	L86934-03 20x WG81214 WIPE-10		21 Aug 2002 19:14
17	12	0821_16.D	500.	L86934-02 500x WG81214 WIPE-10		21 Aug 2002 19:28
18	13	0821_17.D RK	500.	L86934-01 500x WG81214 5-10		21 Aug 2002 19:42
19	13	0821_17A.D	5000.	L86934-01 5000x WG81214 5-10 H		21 Aug 2002 20:11
20	1	0821_18.D	1.	HEXANE		21 Aug 2002 19:57
21	1	0821_19.D	1.	HEXANE		21 Aug 2002 20:25
22	2	0821_20.D	1.	1016/1260 .50ppm	BS030104K30	21 Aug 2002 20:59

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Quantitation Report (QT Reviewed)

#1 : D:\DATA\SVGC#4\082102\0821_08.D\ECD1A.CH Vial: 16
Signal #2 : D:\DATA\SVGC#4\082102\0821_08.D\ECD2B.CH
Acq On : 21 Aug 2002 4:44 pm Operator: 308
Sample : 1254 1ppm Inst : SVGC4
Misc : BS030104K30 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Aug 21 19:40 2002 Quant Results File: 1254L.RES

Quant Method : C:\HPCHEM\2\METHODS\1254L.M (Chemstation Integrator)
Title :
Last Update : Wed Aug 21 19:40:35 2002
Response via : Initial Calibration
DataAcq Meth : PCB20819.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

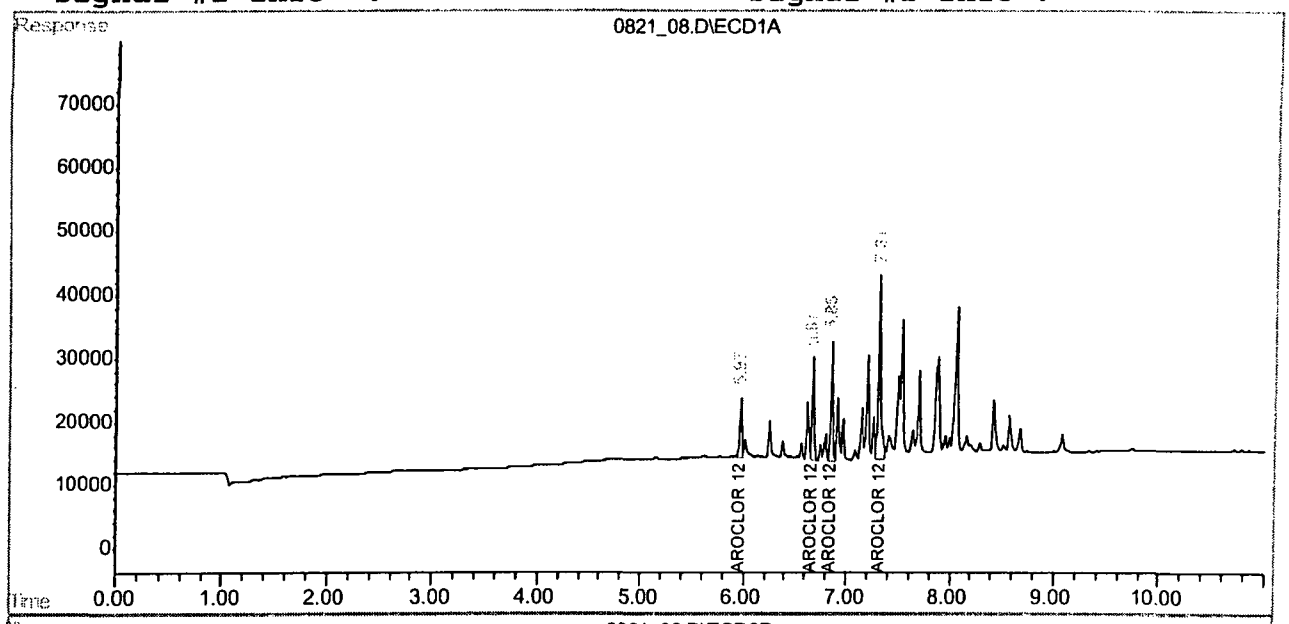
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) s TCMX	0.00	0	N.D. µg/mL
Spiked Amount 0.200	Range 41 - 145	Recovery =	0.00%#
6) s DCB	0.00	0	N.D. µg/mL
Spiked Amount 0.200	Range 39 - 137	Recovery =	0.00%#
8) s TCMX #2	0.00	0	N.D. µg/mL
Spiked Amount 0.200	Range 41 - 145	Recovery =	0.00%#
13) s dcb #2	0.00	0	N.D. µg/mL
Spiked Amount 0.200	Range 39 - 137	Recovery =	0.00%#
Target Compounds			
2) m,t AROCLOR 1254(1)	5.97	121398	1.048 µg/mL
3) m,t AROCLOR 1254(2)	6.67	223342	1.070 µg/mL
4) m,t AROCLOR 1254(3)	6.85	251154	1.034 µg/mL
5) m,t AROCLOR 1254(4)	7.31	483851	1.247 µg/mL
9) m,t AROCLOR 1254(1) #2	5.91	172095	1.056 µg/mL
10) m,t AROCLOR 1254(2) #2	6.30	431231	1.154 µg/mL
11) m,t AROCLOR 1254(3) #2	6.56	759964	1.210 µg/mL
12) m,t AROCLOR 1254(4) #2	6.97	842950	1.086 µg/mL

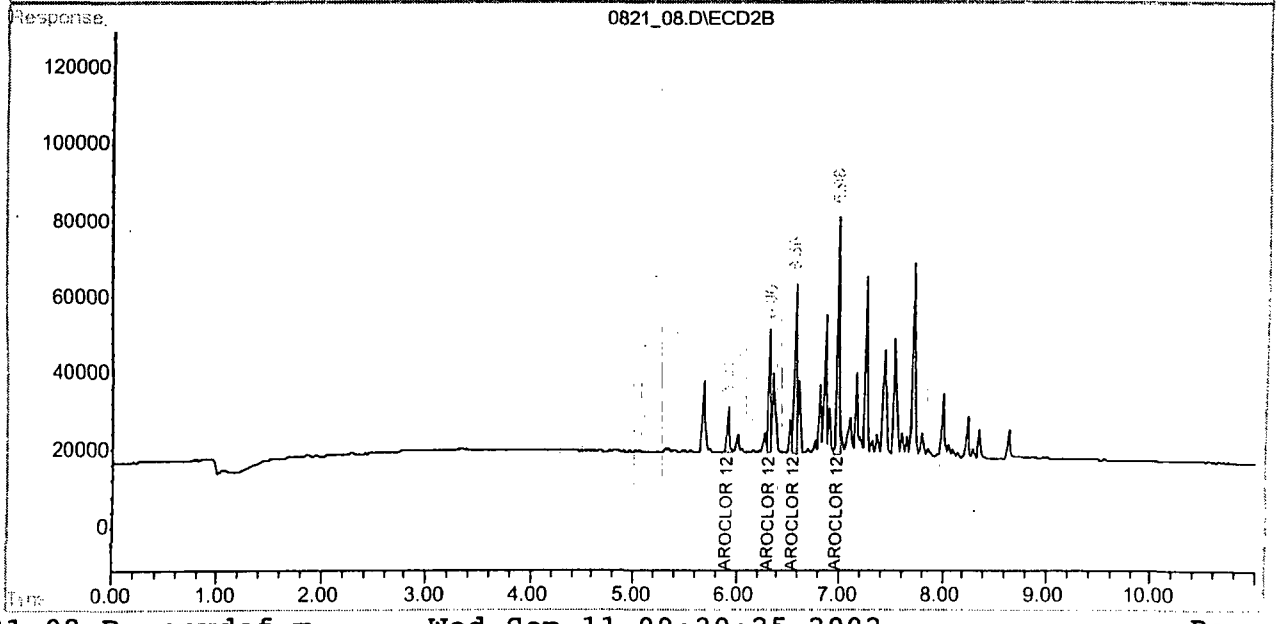
Quantitation Report (QT Reviewed)

Signal #1 : D:\DATA\SVGC#4\082102\0821_08.D\ECD1A.CH Vial: 16
Signal #2 : D:\DATA\SVGC#4\082102\0821_08.D\ECD2B.CH
Acq On : 21 Aug 2002 4:44 pm Operator: 308
Sample : 1254 1ppm Inst : SVGC4
Misc : BS030104K30 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Aug 21 19:40 2002 Quant Results File: 1254L.RES

Quant Method : C:\HPCHEM\2\METHODS\1254L.M (Chemstation Integrator)
Title :
Last Update : Wed Aug 21 19:40:35 2002
Response via : Multiple Level Calibration
DataAcq Meth : PCB20819.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Signal #1 : D:\DATA\SVGC#4\082102\0821_09.D\ECD1A.CH Vial: 8
Signal #2 : D:\DATA\SVGC#4\082102\0821_09.D\ECD2B.CH
Acq On : 21 Aug 2002 4:58 pm Operator: 308
Sample : Blank 1x WG81214 30-10 Inst : SVGC4
Misc : surr ESC8081 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Aug 21 17:19 2002 Quant Results File: PCB20821.RES

Quant Method : C:\HPCHEM\2\METHODS\PCB20821.M (Chemstation Integrator)
Title :
Last Update : Wed Aug 21 16:50:10 2002
Response via : Initial Calibration
DataAcq Meth : PCB20819.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) s TCMX	4.11	1063702	0.192 µg/mL
Spiked Amount 0.200	Range 41 - 145	Recovery =	96.00%
10) s DCB	10.61	1072378	0.202 µg/mL
Spiked Amount 0.200	Range 39 - 137	Recovery =	101.00%
12) s TCMX #2	3.96	2460624	0.192 µg/mL
Spiked Amount 0.200	Range 41 - 145	Recovery =	96.00%
21) s dcb #2	9.87	2390101	0.206 µg/mL
Spiked Amount 0.200	Range 39 - 137	Recovery =	103.00%
Target Compounds			
2) m,t AROCLOR 1016(1)	4.74	23711	0.200 µg/mL
3) m,t AROCLOR 1016(2)	5.47f	10932	0.120 µg/mL
4) m,t AROCLOR 1016(3)	5.81	6892	0.035 µg/mL
5) m,t AROCLOR 1016(4)	0.00	0	N.D. µg/mL
6) m,t AROCLOR 1260(1)	0.00	0	N.D. µg/mL
7) m,t AROCLOR 1260(2)	0.00	0	N.D. µg/mL
8) m,t AROCLOR 1260(3)	8.49	7369	0.051 µg/mL
9) m,t AROCLOR 1260(4)	8.60f	18511	0.034 µg/mL
13) m,t AROCLOR 1016(1) #2	4.44	64046	0.313 µg/mL
14) m,t AROCLOR 1016(2) #2	5.51	15229	0.054 µg/mL
15) m,t AROCLOR 1016(3) #2	0.00	0	N.D. µg/mL
16) m,t AROCLOR 1016(4) #2	6.56	9446	0.035 µg/mL
17) m,t AROCLOR 1260(1) #2	7.24f	9158	0.014 µg/mL
18) m,t AROCLOR 1260(2) #2	0.00	0	N.D. µg/mL
19) m,t AROCLOR 1260(3) #2	7.70	10572	0.009 µg/mL
20) m,t AROCLOR 1260(4) #2	0.00	0	N.D. µg/mL

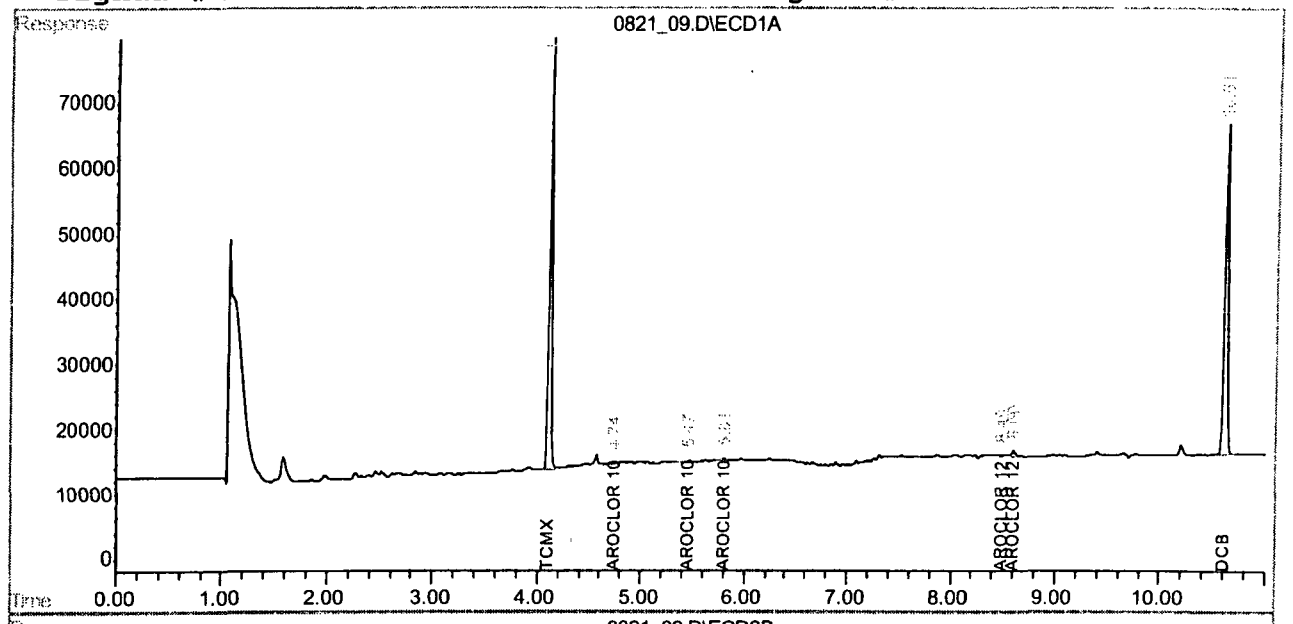
(f)=RT Delta > 1/2 Window (m)=manual int.

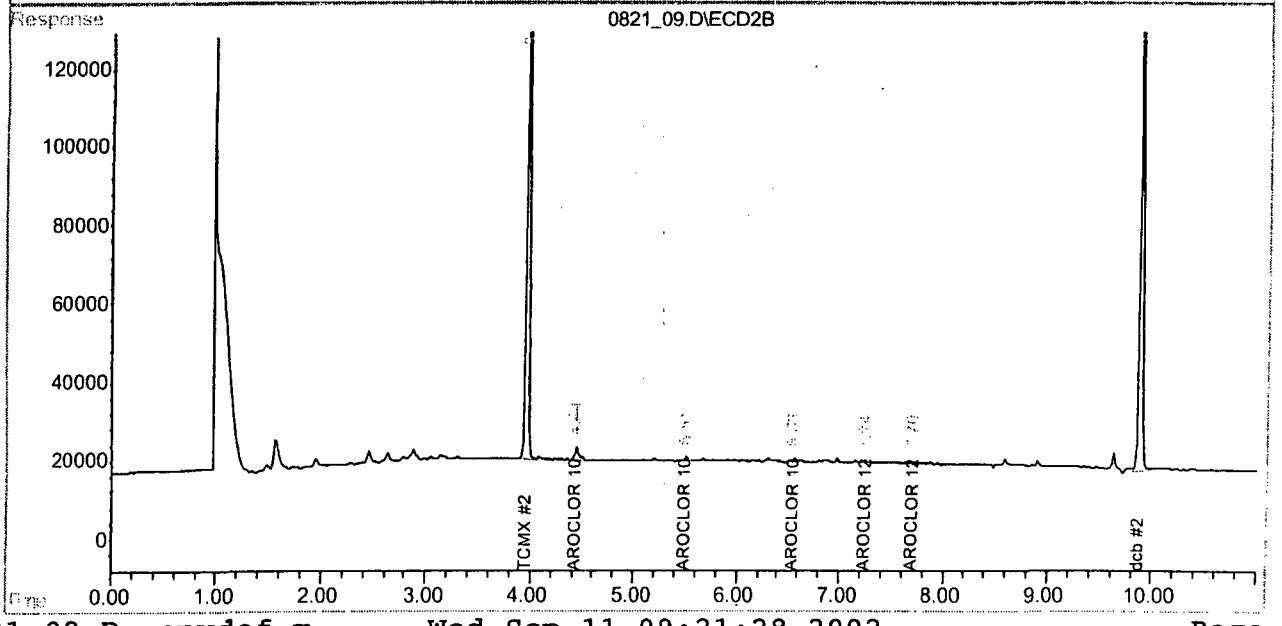
Quantitation Report (QT Reviewed)

Signal #1 : D:\DATA\SVGC#4\082102\0821_09.D\ECD1A.CH Vial: 8
Signal #2 : D:\DATA\SVGC#4\082102\0821_09.D\ECD2B.CH
Acq On : 21 Aug 2002 4:58 pm Operator: 308
Sample : Blank 1x WG81214 30-10 Inst : SVGC4
Misc : surr ESC8081 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Aug 21 17:19 2002 Quant Results File: PCB20821.RES

Quant Method : C:\HPCHEM\2\METHODS\PCB20821.M (Chemstation Integrator)
Title :
Last Update : Wed Aug 21 16:50:10 2002
Response via : Multiple Level Calibration
DataAcq Meth : PCB20819.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Signal #1 : D:\DATA\SVGC#4\082102\0821_10.D\ECD1A.CH Vial: 9
Signal #2 : D:\DATA\SVGC#4\082102\0821_10.D\ECD2B.CH
Acq On : 21 Aug 2002 5:12 pm Operator: 308
Sample : LCS 1x WG81214 30-10 Inst : SVGC4
Misc : spk ESC7740 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Aug 21 17:29 2002 Quant Results File: PCB20821.RES

Quant Method : C:\HPCHEM\2\METHODS\PCB20821.M (Chemstation Integrator)
Title :
Last Update : Wed Aug 21 16:50:10 2002
Response via : Initial Calibration
DataAcq Meth : PCB20819.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound			R.T.	Response		Conc Units
System Monitoring Compounds						
1) s TCMX			4.11	1096294		0.198 µg/mL
Spiked Amount	0.200	Range	41 - 145	Recovery	=	99.00%
10) s DCB			10.61	1112144		0.210 µg/mL
Spiked Amount	0.200	Range	39 - 137	Recovery	=	105.00%
12) s TCMX #2			3.96	2549373		0.199 µg/mL
Spiked Amount	0.200	Range	41 - 145	Recovery	=	99.50%
21) s dcb #2			9.87	2404511		0.207 µg/mL
Spiked Amount	0.200	Range	39 - 137	Recovery	=	103.50%
Target Compounds						
2) m,t AROCLOR 1016(1)			4.69	11876		0.100 µg/mL
3) m,t AROCLOR 1016(2)			5.47f	4620		0.051 µg/mL
4) m,t AROCLOR 1016(3)			0.00	0		N.D. µg/mL
5) m,t AROCLOR 1016(4)			5.97	4902		0.048 µg/mL
6) m,t AROCLOR 1260(1)			7.63	45047		0.507 µg/mL
7) m,t AROCLOR 1260(2)			7.69	202062		0.564 µg/mL
8) m,t AROCLOR 1260(3)			8.51	104726		0.723 µg/mL
9) m,t AROCLOR 1260(4)			8.67	356353		0.657 µg/mL
13) m,t AROCLOR 1016(1) #2			4.44	68295		0.334 µg/mL
14) m,t AROCLOR 1016(2) #2			0.00	0		N.D. µg/mL
15) m,t AROCLOR 1016(3) #2			5.91f	4172		0.024 µg/mL
16) m,t AROCLOR 1016(4) #2			6.56	133037		0.493 µg/mL
17) m,t AROCLOR 1260(1) #2			7.14	355428		0.550 µg/mL
18) m,t AROCLOR 1260(2) #2			7.41	563543		0.551 µg/mL
19) m,t AROCLOR 1260(3) #2			7.69	631025		0.525 µg/mL
20) m,t AROCLOR 1260(4) #2			8.34	796993		0.614 µg/mL

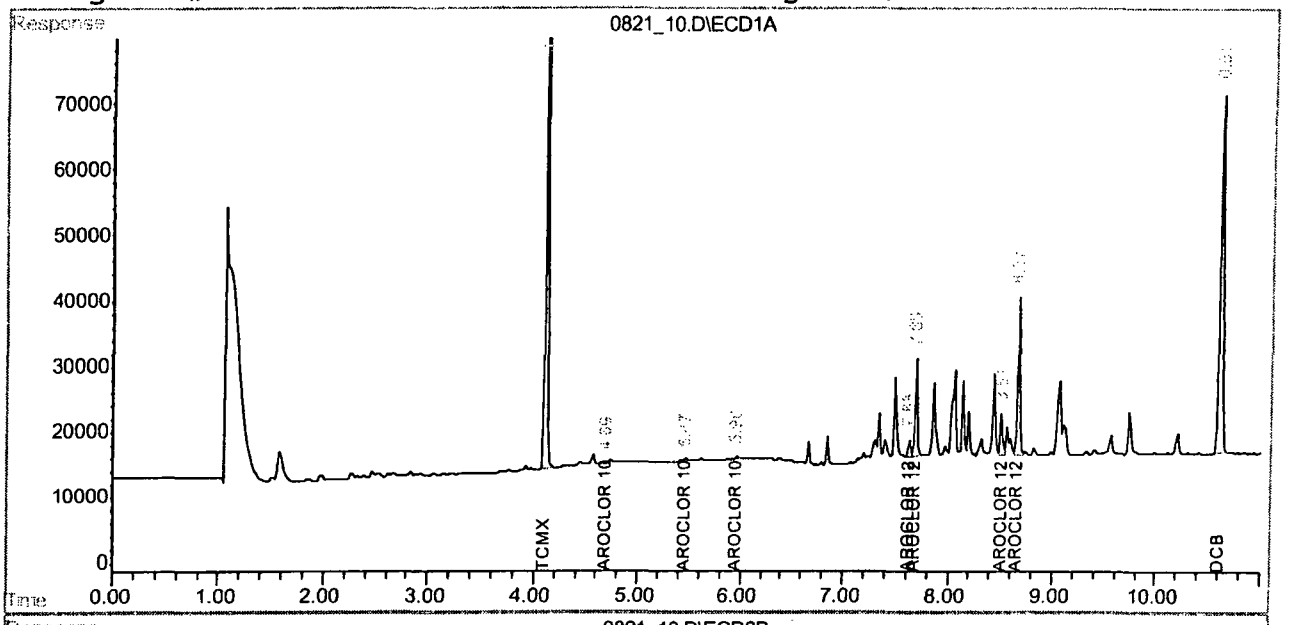
(f)=RT Delta > 1/2 Window (m)=manual int.

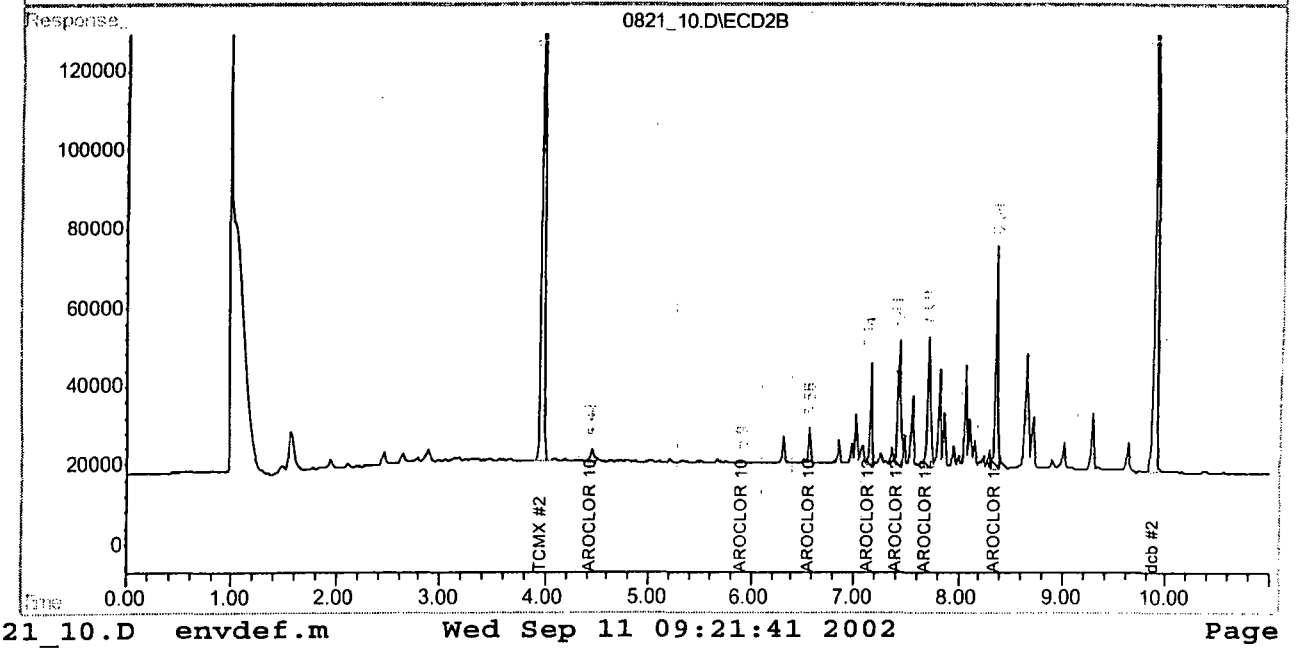
Quantitation Report (QT Reviewed)

Signal #1 : D:\DATA\SVGC#4\082102\0821_10.D\ECD1A.CH Vial: 9
Signal #2 : D:\DATA\SVGC#4\082102\0821_10.D\ECD2B.CH
Acq On : 21 Aug 2002 5:12 pm Operator: 308
Sample : LCS 1x WG81214 30-10 Inst : SVGC4
Misc : spk ESC7740 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Aug 21 17:29 2002 Quant Results File: PCB20821.RES

Quant Method : C:\HPCHEM\2\METHODS\PCB20821.M (Chemstation Integrator)
Title :
Last Update : Wed Aug 21 16:50:10 2002
Response via : Multiple Level Calibration
DataAcq Meth : PCB20819.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Signal #1 : D:\DATA\SVGC#4\082102\0821_11.D\ECD1A.CH Vial: 10
Signal #2 : D:\DATA\SVGC#4\082102\0821_11.D\ECD2B.CH
Acq On : 21 Aug 2002 5:46 pm Operator: 308
Sample : LCSD 1x WG81214 30-10 Inst : SVGC4
Misc : spk ESC7740 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Aug 21 18:32 2002 Quant Results File: PCB20821.RES

Quant Method : C:\HPCHEM\2\METHODS\PCB20821.M (Chemstation Integrator)
Title :
Last Update : Wed Aug 21 16:50:10 2002
Response via : Initial Calibration
DataAcq Meth : PCB20819.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) s TCMX	4.12	1233310	0.223 µg/mL
Spiked Amount 0.200	Range 41 - 145	Recovery =	111.50%
10) s DCB	10.63	1731143	0.327 µg/mL
Spiked Amount 0.200	Range 39 - 137	Recovery =	163.50%#
12) s TCMX #2	3.97	3194673	0.249 µg/mL
Spiked Amount 0.200	Range 41 - 145	Recovery =	124.50%
21) s dcb #2	9.89	2962100	0.255 µg/mL
Spiked Amount 0.200	Range 39 - 137	Recovery =	127.50%
Target Compounds			
2) m,t AROCLOR 1016(1)	4.75f	26281	0.222 µg/mL
3) m,t AROCLOR 1016(2)	5.49f	7076	0.078 µg/mL
4) m,t AROCLOR 1016(3)	0.00	0	N.D. µg/mL
5) m,t AROCLOR 1016(4)	0.00	0	N.D. µg/mL
6) m,t AROCLOR 1260(1)	7.64	42399	0.477 µg/mLm
7) m,t AROCLOR 1260(2)	7.71	236000	0.658 µg/mLm
8) m,t AROCLOR 1260(3)	8.52	112240	0.775 µg/mLm
9) m,t AROCLOR 1260(4)	8.68	425681	0.785 µg/mL
13) m,t AROCLOR 1016(1) #2	4.45f	55654	0.272 µg/mL
14) m,t AROCLOR 1016(2) #2	5.49f	4101	0.014 µg/mL
15) m,t AROCLOR 1016(3) #2	5.98	19885	0.115 µg/mL
16) m,t AROCLOR 1016(4) #2	6.58	222744	0.826 µg/mL
17) m,t AROCLOR 1260(1) #2	7.17	420153	0.650 µg/mLm
18) m,t AROCLOR 1260(2) #2	7.43	693346	0.678 µg/mL
19) m,t AROCLOR 1260(3) #2	7.71	921607	0.766 µg/mL
20) m,t AROCLOR 1260(4) #2	8.36	1001210	0.772 µg/mL

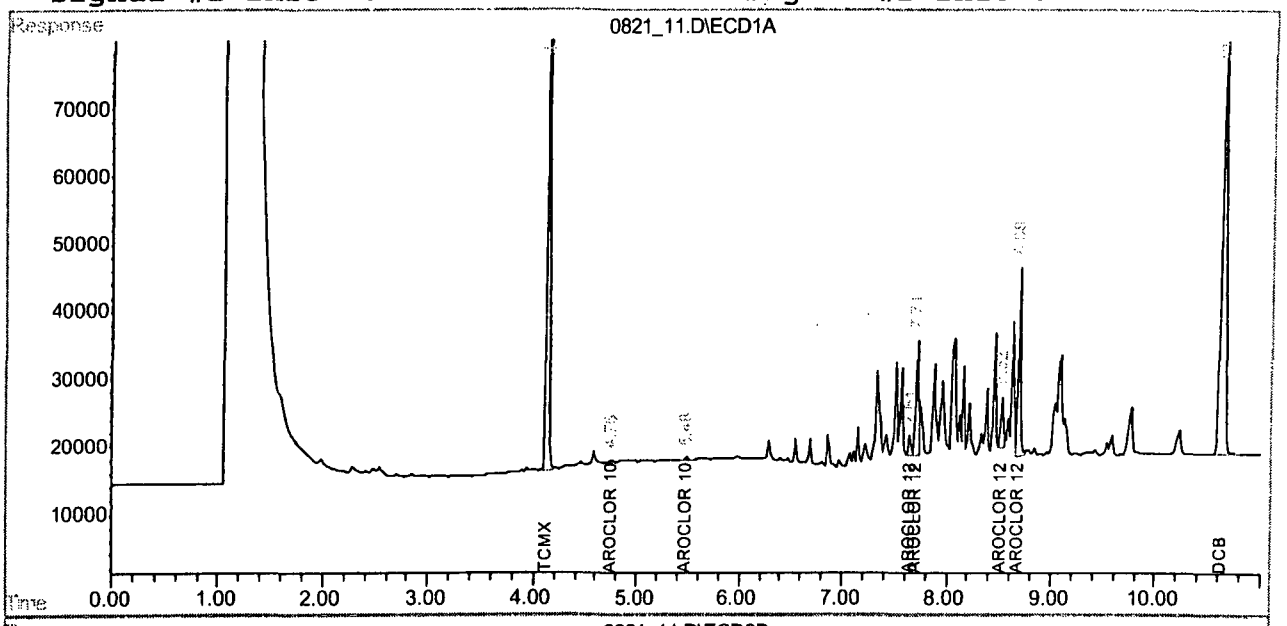
(f)=RT Delta > 1/2 Window (m)=manual int.

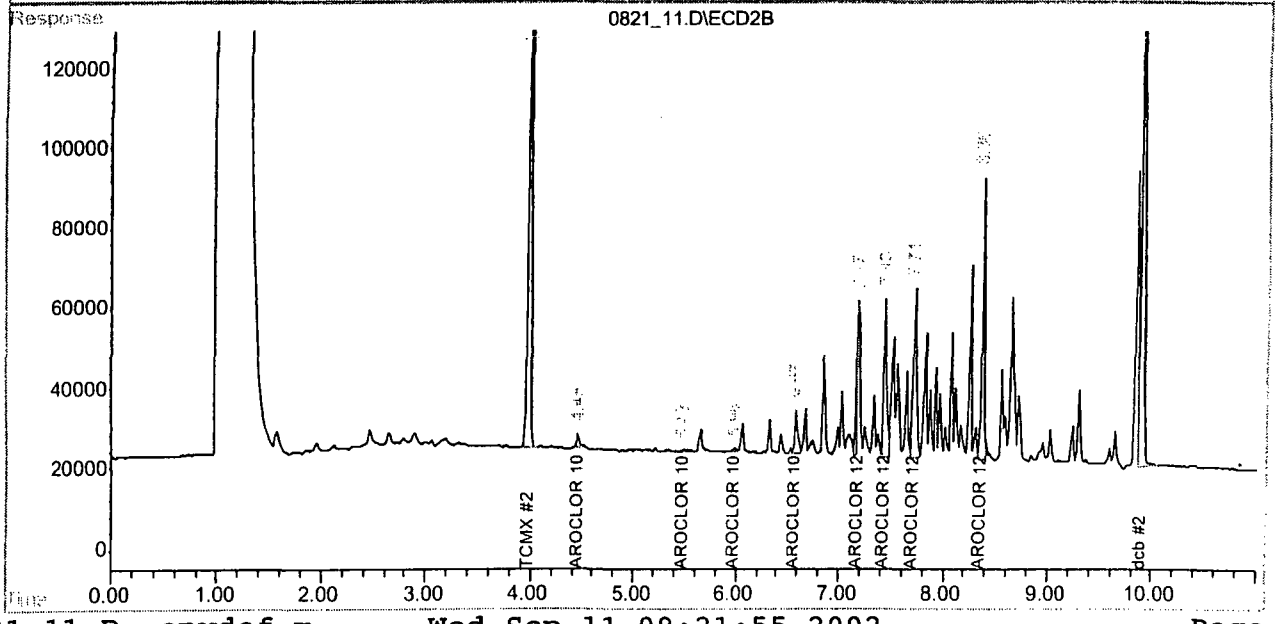
Quantitation Report (QT Reviewed)

Signal #1 : D:\DATA\SVGC#4\082102\0821_11.D\ECD1A.CH Vial: 10
Signal #2 : D:\DATA\SVGC#4\082102\0821_11.D\ECD2B.CH
Acq On : 21 Aug 2002 5:46 pm Operator: 308
Sample : LCSD 1x WG81214 30-10 Inst : SVGC4
Misc : spk ESC7740 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Aug 21 18:32 2002 Quant Results File: PCB20821.RES

Quant Method : C:\HPCHEM\2\METHODS\PCB20821.M (Chemstation Integrator)
Title :
Last Update : Wed Aug 21 16:50:10 2002
Response via : Multiple Level Calibration
DataAcq Meth : PCB20819.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Signal #1 : D:\DATA\SVGC#4\082102\0821_11A.D\ECD1A.CH Vial: 10
Signal #2 : D:\DATA\SVGC#4\082102\0821_11A.D\ECD2B.CH
Acq On : 21 Aug 2002 6:59 pm Operator: 308
Sample : LCSD 1x WG81214 30-10 Inst : SVGC4
Misc : spk ESC7740 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Aug 21 19:12 2002 Quant Results File: PCB20821.RES

Quant Method : C:\HPCHEM\2\METHODS\PCB20821.M (Chemstation Integrator)
Title :
Last Update : Wed Aug 21 16:50:10 2002
Response via : Initial Calibration
DataAcq Meth : PCB20819.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

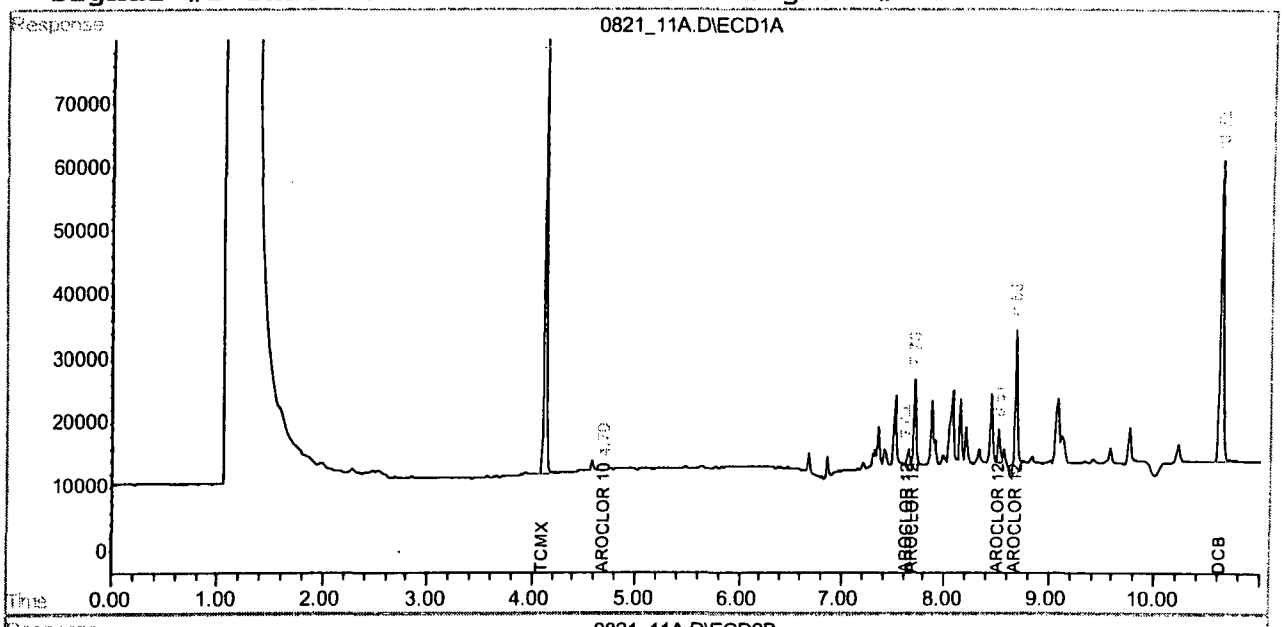
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) s TCMX	4.12	971947	0.176 µg/mL
Spiked Amount 0.200	Range 41 - 145	Recovery =	88.00%
10) s DCB	10.62	969297	0.183 µg/mL
Spiked Amount 0.200	Range 39 - 137	Recovery =	91.50%
12) s TCMX #2	3.96	2246530	0.175 µg/mL
Spiked Amount 0.200	Range 41 - 145	Recovery =	87.50%
21) s dcb #2	9.88	2233517	0.192 µg/mL
Spiked Amount 0.200	Range 39 - 137	Recovery =	96.00%
Target Compounds			
2) m,t AROCLOR 1016(1)	4.70	4528	0.038 µg/mL
3) m,t AROCLOR 1016(2)	0.00	0	N.D. µg/mL
4) m,t AROCLOR 1016(3)	0.00	0	N.D. µg/mL
5) m,t AROCLOR 1016(4)	0.00	0	N.D. µg/mL
6) m,t AROCLOR 1260(1)	7.64	43743	0.492 µg/mL
7) m,t AROCLOR 1260(2)	7.70	184485	0.515 µg/mL
8) m,t AROCLOR 1260(3)	8.51	78689	0.543 µg/mLm
9) m,t AROCLOR 1260(4)	8.68	368798	0.680 µg/mL
13) m,t AROCLOR 1016(1) #2	4.44	53395	0.261 µg/mL
14) m,t AROCLOR 1016(2) #2	0.00	0	N.D. µg/mL
15) m,t AROCLOR 1016(3) #2	0.00	0	N.D. µg/mL
16) m,t AROCLOR 1016(4) #2	6.56	127798	0.474 µg/mL
17) m,t AROCLOR 1260(1) #2	7.15	340313	0.527 µg/mL
18) m,t AROCLOR 1260(2) #2	7.42	539258	0.528 µg/mL
19) m,t AROCLOR 1260(3) #2	7.70	651047	0.541 µg/mL
20) m,t AROCLOR 1260(4) #2	8.35	840369	0.648 µg/mL

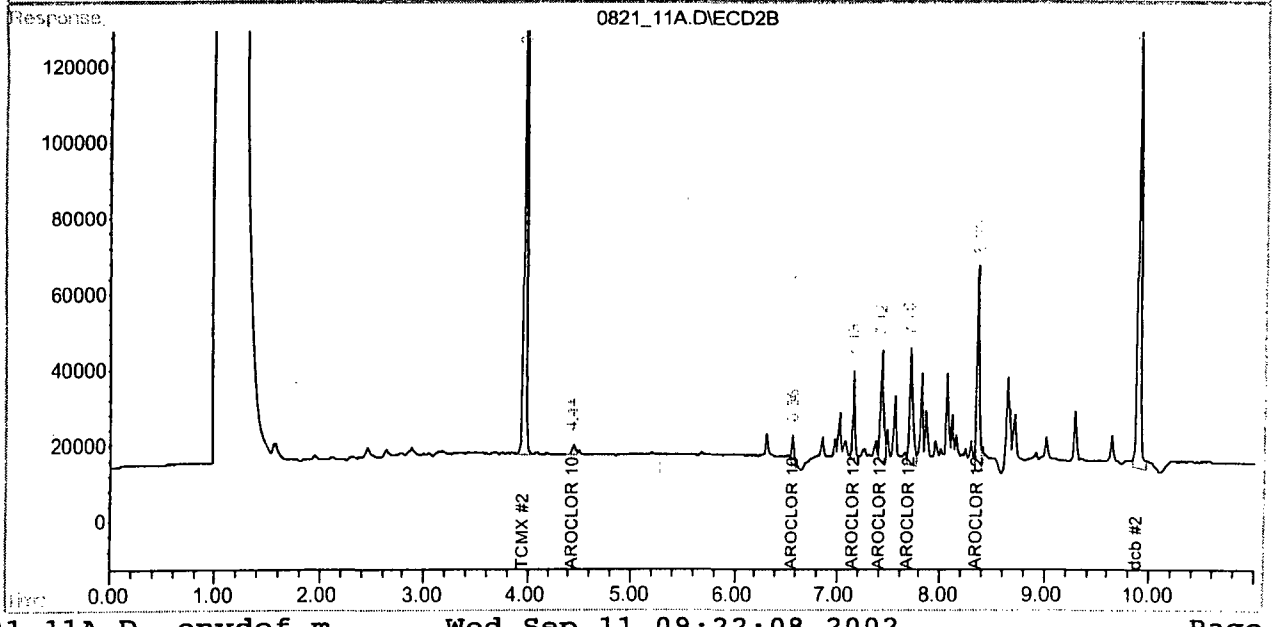
Quantitation Report (QT Reviewed)

Signal #1 : D:\DATA\SVGC#4\082102\0821_11A.D\ECD1A.CH Vial: 10
Signal #2 : D:\DATA\SVGC#4\082102\0821_11A.D\ECD2B.CH
Acq On : 21 Aug 2002 6:59 pm Operator: 308
Sample : LCSD 1x WG81214 30-10 Inst : SVGC4
Misc : spk ESC7740 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Aug 21 19:12 2002 Quant Results File: PCB20821.RES

Quant Method : C:\HPCHEM\2\METHODS\PCB20821.M (Chemstation Integrator)
Title :
Last Update : Wed Aug 21 16:50:10 2002
Response via : Multiple Level Calibration
DataAcq Meth : PCB20819.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Data File : D:\DATA\SVGC#4\082102\0821_12.D\ECD1A.CH Vial: 11
Acq On : 21 Aug 2002 6:00 pm Operator: 308
Sample : MS 10x WG81214 L86934-01 5-10 Inst : SVGC4
Misc : spk ESC7740 Multiplr: 10.00
IntFile : EVENTS.E

Data File : D:\DATA\SVGC#4\082102\0821_12.D\ECD2B.CH Vial: 11
Acq On : 21 Aug 2002 6:00 pm Operator: 308
Sample : MS 10x WG81214 L86934-01 5-10 Inst : SVGC4
Misc : spk ESC7740 Multiplr: 10.00
IntFile : events2.e
Quant Time: Aug 21 18:22 2002 Quant Results File: PCB20821.RES

Quant Method : C:\HPCHEM\2\METHODS\PCB20821.M (Chemstation Integrator)
Title :
Last Update : Wed Aug 21 16:50:10 2002
Response via : Initial Calibration
DataAcq Meth : PCB20819.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound			R.T.	Response	Conc Units
System Monitoring Compounds					
1) s TCMX			4.12	498544	0.901 µg/mL
Spiked Amount	0.200	Range	41 - 145	Recovery =	450.50%#
10) s DCB			10.63	479013	0.904 µg/mL
Spiked Amount	0.200	Range	39 - 137	Recovery =	452.00%#
12) s TCMX #2			3.97	643521	0.502 µg/mL
Spiked Amount	0.200	Range	41 - 145	Recovery =	251.00%#
21) s dcb #2			9.89	720614	0.621 µg/mL
Spiked Amount	0.200	Range	39 - 137	Recovery =	310.50%#
Target Compounds					
2) m,t AROCLOR 1016(1)			4.70	584274	49.289 µg/mL
3) m,t AROCLOR 1016(2)			5.42	574182	63.102 µg/mL
4) m,t AROCLOR 1016(3)			5.77	1246205	62.697 µg/mL
5) m,t AROCLOR 1016(4)			5.97	10664952	1054.942 µg/mL
6) m,t AROCLOR 1260(1)			7.64	7606429	855.725 µg/mL
7) m,t AROCLOR 1260(2)			7.70	25766010	718.616 µg/mL
8) m,t AROCLOR 1260(3)			8.51	2723303	188.063 µg/mL
9) m,t AROCLOR 1260(4)			8.68	11732651	216.430 µg/mL
13) m,t AROCLOR 1016(1) #2			4.40	803690	39.273 µg/mL
14) m,t AROCLOR 1016(2) #2			5.55	1633198	57.712 µg/mL
15) m,t AROCLOR 1016(3) #2			6.00	7543949	437.241 µg/mL
16) m,t AROCLOR 1016(4) #2			6.57	66894864	2479.879 µg/mL
17) m,t AROCLOR 1260(1) #2			7.15	37270065	576.857 µg/mL
18) m,t AROCLOR 1260(2) #2			7.44	78085575	764.105 µg/mL
19) m,t AROCLOR 1260(3) #2			7.72	80653251	670.439 µg/mL
20) m,t AROCLOR 1260(4) #2			8.35	17604195	135.704 µg/mL

(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : D:\DATA\SVGC#4\082102\0821_12.D\ECD1A.CH Vial: 11
Acq On : 21 Aug 2002 6:00 pm Operator: 308
Sample : MS 10x WG81214 L86934-01 5-10 Inst : SVGC4
Misc : spk ESC7740 Multiplr: 10.00
IntFile : EVENTS.E

Data File : D:\DATA\SVGC#4\082102\0821_12.D\ECD2B.CH Vial: 11
Acq On : 21 Aug 2002 6:00 pm Operator: 308
Sample : MS 10x WG81214 L86934-01 5-10 Inst : SVGC4
Misc : spk ESC7740 Multiplr: 10.00
IntFile : events2.e
Quant Time: Aug 21 18:22 2002 Quant Results File: PCB20821.RES

Quant Method : C:\HPCHEM\2\METHODS\PCB20821.M (Chemstation Integrator)
Title :
Last Update : Wed Aug 21 16:50:10 2002
Response via : Initial Calibration
DataAcq Meth : PCB20819.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc Units

(f)=RT Delta > 1/2 Window (m)=manual int.

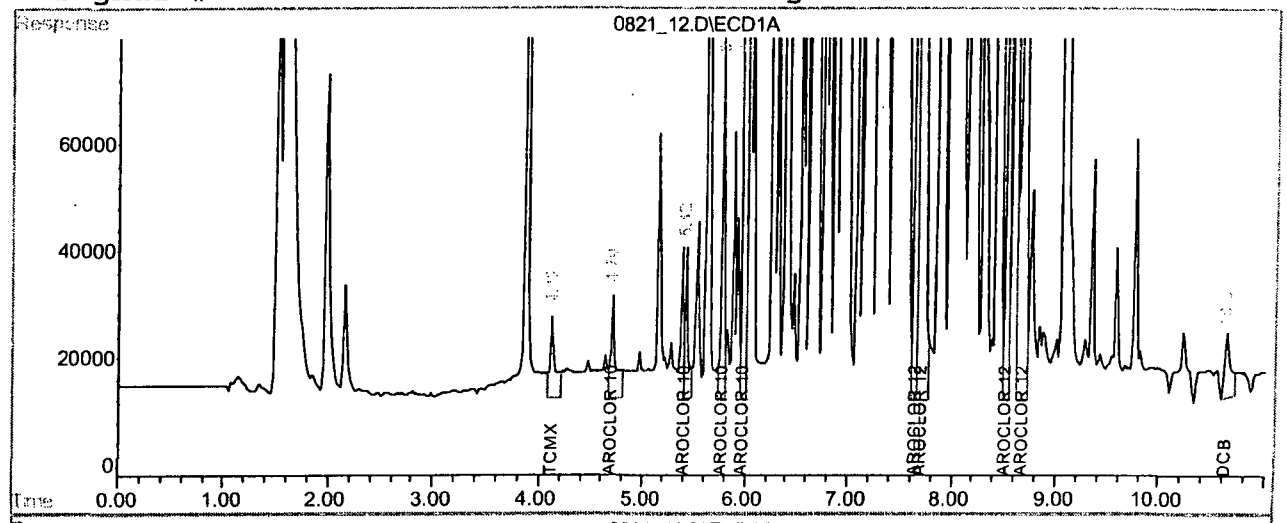
Quantitation Report (QT Reviewed)

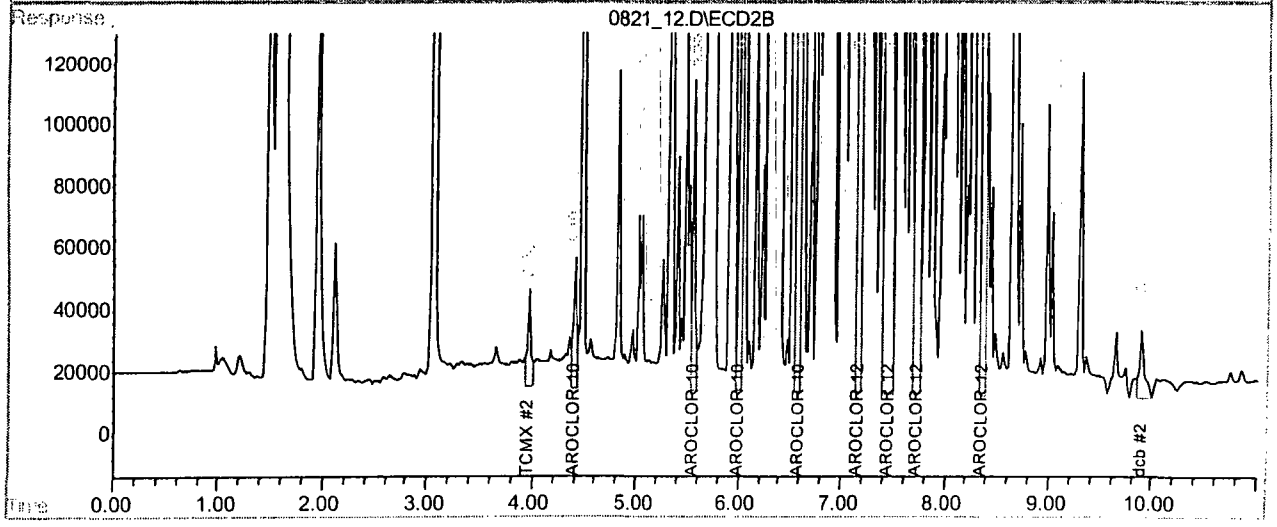
Data File : D:\DATA\SVGC#4\082102\0821_12.D\ECD1A.CH Vial: 11
Acq On : 21 Aug 2002 6:00 pm Operator: 308
Sample : MS 10x WG81214 L86934-01 5-10 Inst : SVGC4
Misc : spk ESC7740 Multiplr: 10.00
IntFile : events.e

Data File : D:\DATA\SVGC#4\082102\0821_12.D\ECD2B.CH Vial: 11
Acq On : 21 Aug 2002 6:00 pm Operator: 308
Sample : MS 10x WG81214 L86934-01 5-10 Inst : SVGC4
Misc : spk ESC7740 Multiplr: 10.00
IntFile : events2.e
Quant Time: Aug 21 18:22 2002 Quant Results File: PCB20821.RES

Quant Method : C:\HPCHEM\2\METHODS\PCB20821.M (Chemstation Integrator)
Title :
Last Update : Wed Aug 21 16:50:10 2002
Response via : Multiple Level Calibration
DataAcq Meth : PCB20819.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (Not Reviewed)

Signal #1 : D:\DATA\SVGC#4\082102\0821_13.D\ECD1A.CH Vial: 12
Signal #2 : D:\DATA\SVGC#4\082102\0821_13.D\ECD2B.CH
Acq On : 21 Aug 2002 6:14 pm Operator: 308
Sample : MSD 10x WG81214 L86934-01 5-10 Inst : SVGC4
Misc : spk ESC7740 Multiplr: 10.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Aug 21 18:23 2002 Quant Results File: PCB20819.RES

Quant Method : C:\HPCHEM\2\METHODS\PCB20819.M (Chemstation Integrator)
Title :
Last Update : Tue Aug 20 08:36:08 2002
Response via : Initial Calibration
DataAcq Meth : PCB20819.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

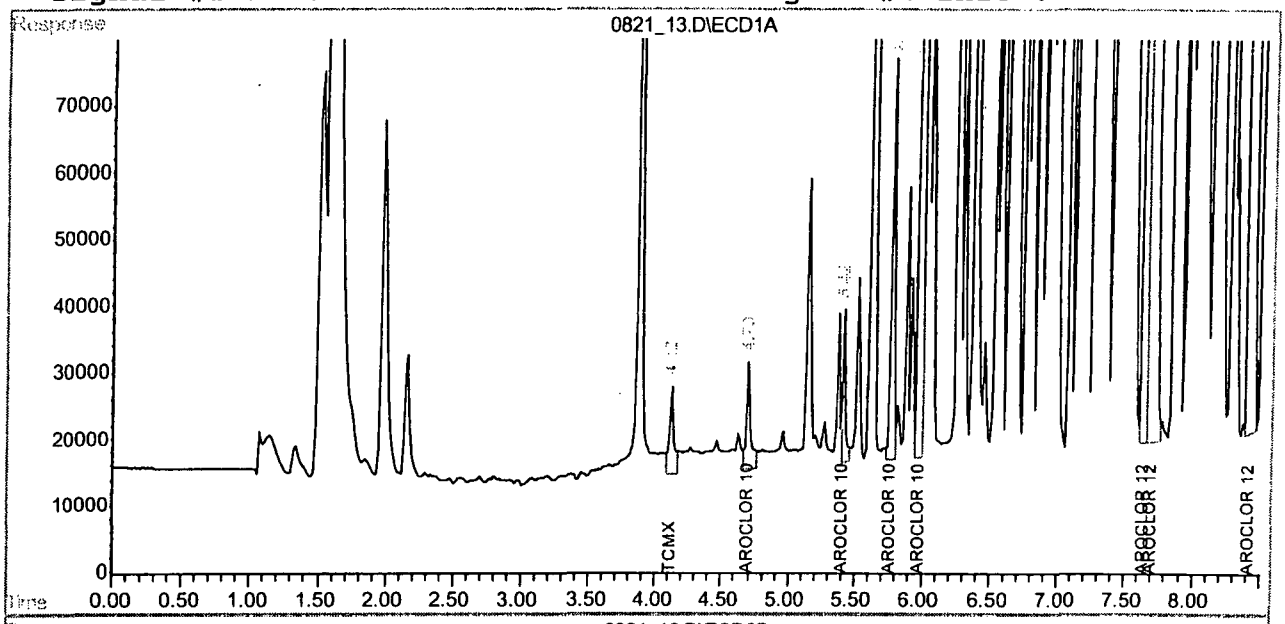
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) s TCMX	4.12	283004	0.505 µg/mL
Spiked Amount 0.200	Range 41 - 145	Recovery =	252.50%#
10) s DCB	0.00	0	N.D. µg/mL
Spiked Amount 0.200	Range 39 - 137	Recovery =	0.00%#
12) s TCMX #2	3.97	513425	1.065 µg/mL
Spiked Amount 0.200	Range 41 - 145	Recovery =	532.50%#
21) s dcb #2	0.00	0	N.D. µg/mL
Spiked Amount 0.200	Range 39 - 137	Recovery =	0.00%#
Target Compounds			
2) m,t AROCLOR 1016(1)	4.70	359603	33.607 µg/mL
3) m,t AROCLOR 1016(2)	5.42	354983	40.434 µg/mL
4) m,t AROCLOR 1016(3)	5.77	983902	51.401 µg/mL
5) m,t AROCLOR 1016(4)	5.97	9491793	923.859 µg/mL
6) m,t AROCLOR 1260(1)	7.64	6484036	859.973 µg/mL
7) m,t AROCLOR 1260(2)	7.70	22020405	610.070 µg/mL
8) m,t AROCLOR 1260(3)	8.42f	15317869	1107.827 µg/mL
9) m,t AROCLOR 1260(4)	0.00	0	N.D. µg/mL
13) m,t AROCLOR 1016(1) #2	4.40	644072	84.117 µg/mL
14) m,t AROCLOR 1016(2) #2	5.55	1304808	126.190 µg/mL
15) m,t AROCLOR 1016(3) #2	6.00	6499335	1084.853 µg/mL
16) m,t AROCLOR 1016(4) #2	6.31	40447690	5673.559 µg/mL
17) m,t AROCLOR 1260(1) #2	7.15	29648657	1232.872 µg/mL
18) m,t AROCLOR 1260(2) #2	7.43	67511813	1873.232 µg/mL
19) m,t AROCLOR 1260(3) #2	7.72	75626234	1699.725 µg/mL
20) m,t AROCLOR 1260(4) #2	8.35	14716380	291.380 µg/mL

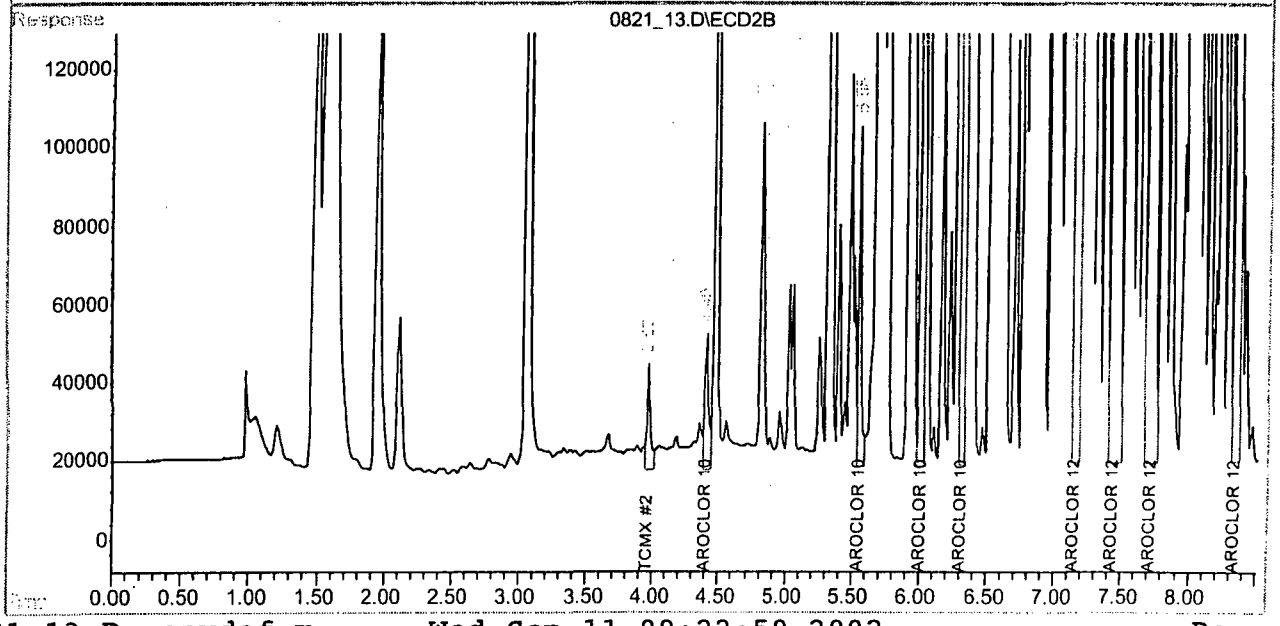
Quantitation Report (Not Reviewed)

Signal #1 : D:\DATA\SVGC#4\082102\0821_13.D\ECD1A.CH Vial: 12
Signal #2 : D:\DATA\SVGC#4\082102\0821_13.D\ECD2B.CH
Acq On : 21 Aug 2002 6:14 pm Operator: 308
Sample : MSD 10x WG81214 L86934-01 5-10 Inst : SVGC4
Misc : spk ESC7740 Multiplr: 10.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Aug 21 18:23 2002 Quant Results File: PCB20819.RES

Quant Method : C:\HPCHEM\2\METHODS\PCB20819.M (Chemstation Integrator)
Title :
Last Update : Tue Aug 20 08:36:08 2002
Response via : Multiple Level Calibration
DataAcq Meth : PCB20819.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (Not Reviewed)

Signal #1 : D:\DATA\SVGC#4\082102\0821_14.D\ECD1A.CH Vial: 1
Signal #2 : D:\DATA\SVGC#4\082102\0821_14.D\ECD2B.CH
Acq On : 21 Aug 2002 6:45 pm Operator: 308
Sample : Hexane Inst : SVGC4
Misc : Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Aug 21 18:56 2002 Quant Results File: PCB20819.RES

Quant Method : C:\HPCHEM\2\METHODS\PCB20819.M (Chemstation Integrator)
Title :
Last Update : Tue Aug 20 08:36:08 2002
Response via : Initial Calibration
DataAcq Meth : PCB20819.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) s TCMX	4.12	9583	0.002 µg/mL
Spiked Amount 0.200	Range 41 - 145	Recovery =	1.00%#
10) s DCB	10.63	650019	0.120 µg/mL
Spiked Amount 0.200	Range 39 - 137	Recovery =	60.00%
12) s TCMX #2	3.96	104708	0.022 µg/mL
Spiked Amount 0.200	Range 41 - 145	Recovery =	11.00%#
21) s dcb #2	9.88	361134	0.072 µg/mL
Spiked Amount 0.200	Range 39 - 137	Recovery =	36.00%#
Target Compounds			
2) m,t AROCLOR 1016(1)	4.71	93212	0.871 µg/mL
3) m,t AROCLOR 1016(2)	0.00	0	N.D. µg/mL
4) m,t AROCLOR 1016(3)	0.00	0	N.D. µg/mL
5) m,t AROCLOR 1016(4)	5.92f	513612	4.999 µg/mL
6) m,t AROCLOR 1260(1)	7.59	221057	2.932 µg/mL
7) m,t AROCLOR 1260(2)	7.70	327246	0.907 µg/mL
8) m,t AROCLOR 1260(3)	8.44f	293944	2.126 µg/mL
9) m,t AROCLOR 1260(4)	8.68	123444	0.210 µg/mL
13) m,t AROCLOR 1016(1) #2	4.41	205357	2.682 µg/mL
14) m,t AROCLOR 1016(2) #2	5.53	24116	0.233 µg/mL
15) m,t AROCLOR 1016(3) #2	6.01	55499	0.926 µg/mL
16) m,t AROCLOR 1016(4) #2	0.00	0	N.D. µg/mL
17) m,t AROCLOR 1260(1) #2	7.15	188393	0.783 µg/mL
18) m,t AROCLOR 1260(2) #2	7.42	197903	0.549 µg/mL
19) m,t AROCLOR 1260(3) #2	7.71	137137	0.308 µg/mL
20) m,t AROCLOR 1260(4) #2	8.35	254323	0.504 µg/mL

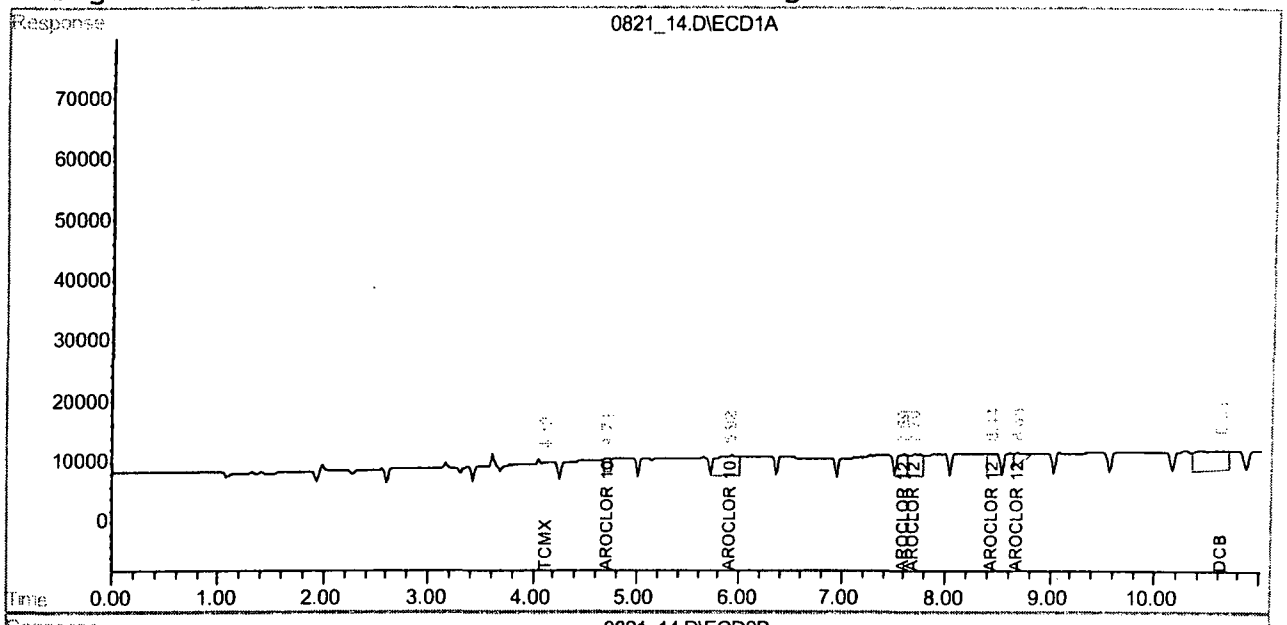
(f)=RT Delta > 1/2 Window (m)=manual int.

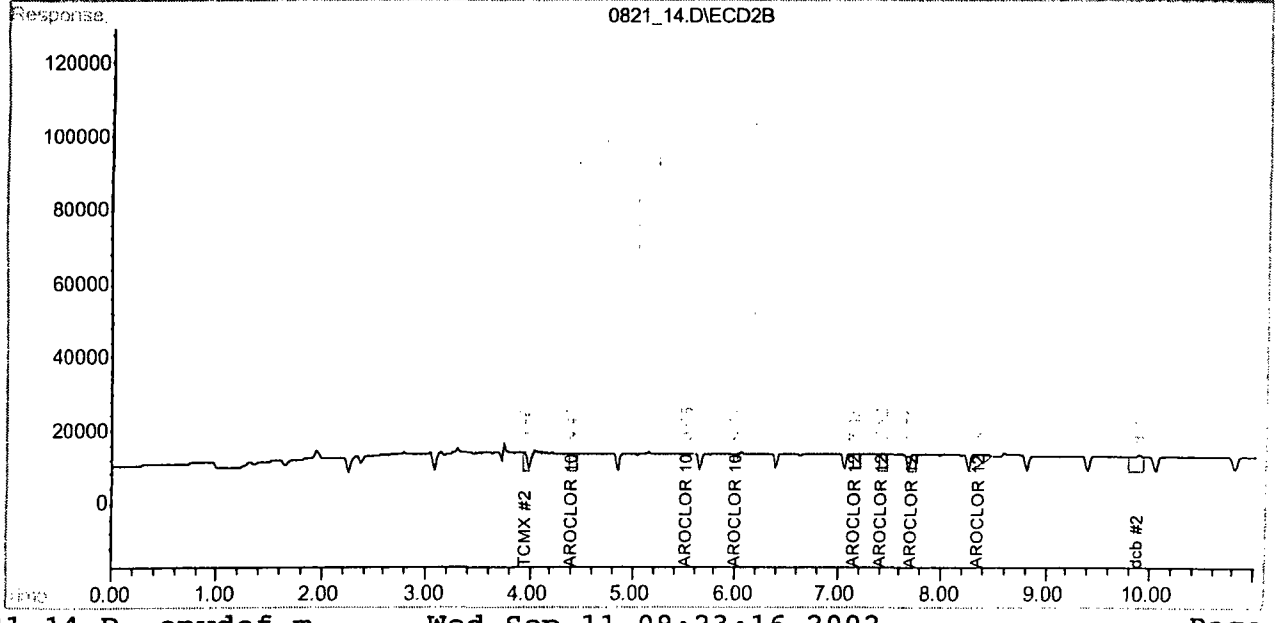
Quantitation Report (Not Reviewed)

Signal #1 : D:\DATA\SVGC#4\082102\0821_14.D\ECD1A.CH Vial: 1
Signal #2 : D:\DATA\SVGC#4\082102\0821_14.D\ECD2B.CH
Acq On : 21 Aug 2002 6:45 pm Operator: 308
Sample : Hexane Inst : SVGC4
Misc : Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Aug 21 18:56 2002 Quant Results File: PCB20819.RES

Quant Method : C:\HPCHEM\2\METHODS\PCB20819.M (Chemstation Integrator)
Title :
Last Update : Tue Aug 20 08:36:08 2002
Response via : Multiple Level Calibration
DataAcq Meth : PCB20819.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (Not Reviewed)

Signal #1 : D:\DATA\SVGC#4\082102\0821_15.D\ECD1A.CH Vial: 11
Signal #2 : D:\DATA\SVGC#4\082102\0821_15.D\ECD2B.CH
Acq On : 21 Aug 2002 7:14 pm Operator: 308
Sample : L86934-03 20x WG81214 WIPE-10 Inst : SVGC4
Misc : Multiplr: 20.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Aug 21 19:25 2002 Quant Results File: PCB20819.RES

Quant Method : C:\HPCHEM\2\METHODS\PCB20819.M (Chemstation Integrator)
Title :
Last Update : Tue Aug 20 08:36:08 2002
Response via : Initial Calibration
DataAcq Meth : PCB20819.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) s TCMX	4.12	71541	0.255 µg/mL
Spiked Amount 0.200	Range 41 - 145	Recovery =	127.50%
10) s DCB	10.63	70376	0.261 µg/mL
Spiked Amount 0.200	Range 39 - 137	Recovery =	130.50%
12) s TCMX #2	3.97	117878	0.489 µg/mL
Spiked Amount 0.200	Range 41 - 145	Recovery =	244.50%#
21) s dcb #2	9.88	143080	0.569 µg/mL
Spiked Amount 0.200	Range 39 - 137	Recovery =	284.50%#
Target Compounds			
2) m,t AROCLOR 1016(1)	0.00	0	N.D. µg/mL
3) m,t AROCLOR 1016(2)	0.00	0	N.D. µg/mL
4) m,t AROCLOR 1016(3)	0.00	0	N.D. µg/mL
5) m,t AROCLOR 1016(4)	5.97	21928	4.269 µg/mL
6) m,t AROCLOR 1260(1)	7.64	28449	7.546 µg/mL
7) m,t AROCLOR 1260(2)	7.70	59693	3.308 µg/mL
8) m,t AROCLOR 1260(3)	8.58f	29836	4.316 µg/mL
9) m,t AROCLOR 1260(4)	8.68	17646	0.600 µg/mL
13) m,t AROCLOR 1016(1) #2	0.00	0	N.D. µg/mL
14) m,t AROCLOR 1016(2) #2	0.00	0	N.D. µg/mL
15) m,t AROCLOR 1016(3) #2	6.01	9413	3.142 µg/mL
16) m,t AROCLOR 1016(4) #2	6.31	89587	25.132 µg/mL
17) m,t AROCLOR 1260(1) #2	7.15	115618	9.615 µg/mL
18) m,t AROCLOR 1260(2) #2	7.42	136438	7.571 µg/mL
19) m,t AROCLOR 1260(3) #2	7.70	203102	9.130 µg/mL
20) m,t AROCLOR 1260(4) #2	8.35	39111	1.549 µg/mL

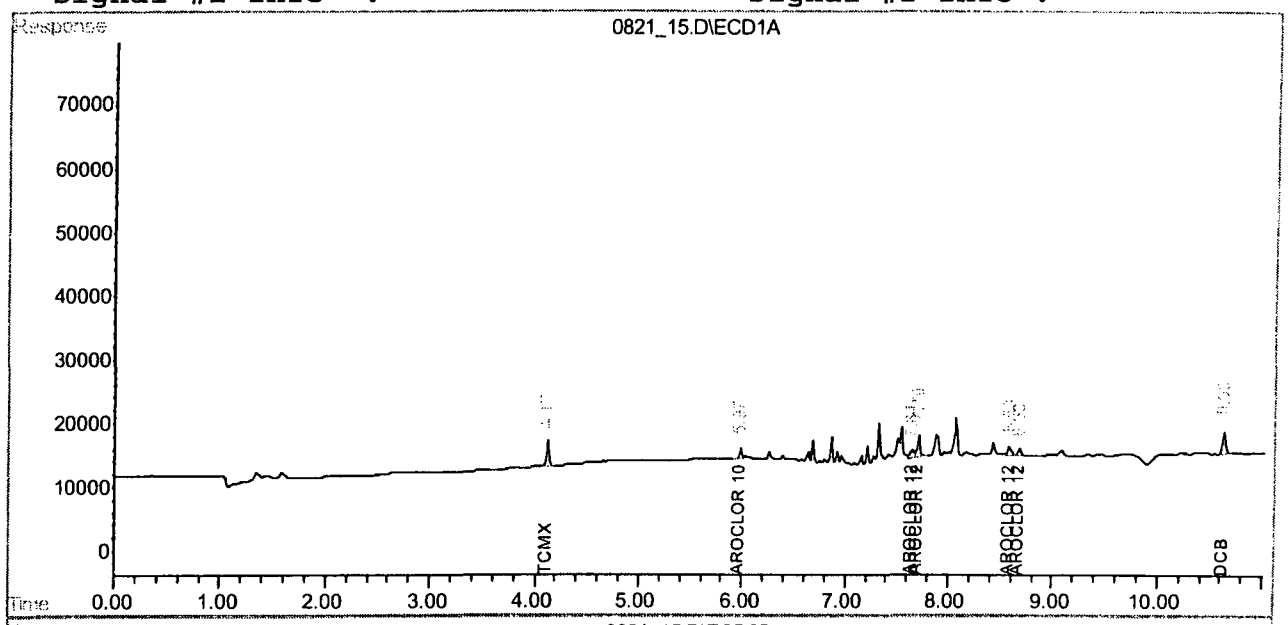
(f)=RT Delta > 1/2 Window (m)=manual int.

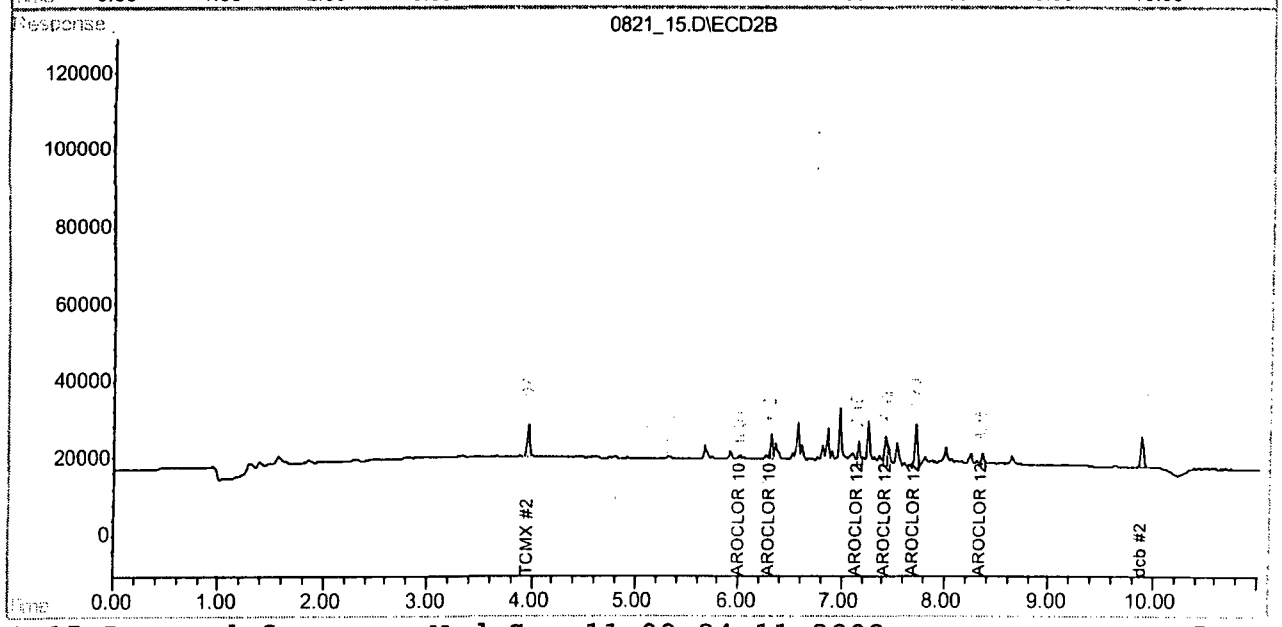
Quantitation Report (Not Reviewed)

Signal #1 : D:\DATA\SVGC#4\082102\0821_15.D\ECD1A.CH Vial: 11
Signal #2 : D:\DATA\SVGC#4\082102\0821_15.D\ECD2B.CH
Acq On : 21 Aug 2002 7:14 pm Operator: 308
Sample : L86934-03 20x WG81214 WIPE-10 Inst : SVGC4
Misc : Multiplr: 20.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Aug 21 19:25 2002 Quant Results File: PCB20819.RES

Quant Method : C:\HPCHEM\2\METHODS\PCB20819.M (Chemstation Integrator)
Title :
Last Update : Tue Aug 20 08:36:08 2002
Response via : Multiple Level Calibration
DataAcq Meth : PCB20819.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Signal #1 : D:\DATA\SVGC#4\082102\0821_15.D\ECD1A.CH Vial: 11
Signal #2 : D:\DATA\SVGC#4\082102\0821_15.D\ECD2B.CH
Acq On : 21 Aug 2002 7:14 pm Operator: 308
Sample : L86934-03 20x WG81214 WIPE-10 Inst : SVGC4
Misc : Multiplr: 20.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Aug 21 19:41 2002 Quant Results File: 1254L.RES

Quant Method : C:\HPCHEM\2\METHODS\1254L.M (Chemstation Integrator)
Title :
Last Update : Wed Aug 21 19:40:56 2002
Response via : Initial Calibration
DataAcq Meth : PCB20819.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound			R.T.	Response		Conc Units
System Monitoring Compounds						
1) s TCMX			4.12	58955		0.213 µg/mLm
Spiked Amount	0.200	Range	41 - 145	Recovery	=	106.50%
6) s DCB			10.63	70376		0.266 µg/mL
Spiked Amount	0.200	Range	39 - 137	Recovery	=	133.00%
8) s TCMX #2			3.97	117878		0.184 µg/mL
Spiked Amount	0.200	Range	41 - 145	Recovery	=	92.00%
13) s dcb #2			9.88	143080		0.247 µg/mL
Spiked Amount	0.200	Range	39 - 137	Recovery	=	123.50%
Target Compounds						
2) m,t AROCLOR 1254(1)			5.97	21928		3.613 µg/mL
3) m,t AROCLOR 1254(2)			6.68	47254		4.232 µg/mL
4) m,t AROCLOR 1254(3)			6.86	57689		4.594 µg/mL
5) m,t AROCLOR 1254(4)			7.32	109786		4.538 µg/mL
9) m,t AROCLOR 1254(1) #2			5.91	33508		3.894 µg/mL
10) m,t AROCLOR 1254(2) #2			6.31	89587		4.155 µg/mL
11) m,t AROCLOR 1254(3) #2			6.57	169775		4.468 µg/mL
12) m,t AROCLOR 1254(4) #2			6.97	190297		4.515 µg/mLm

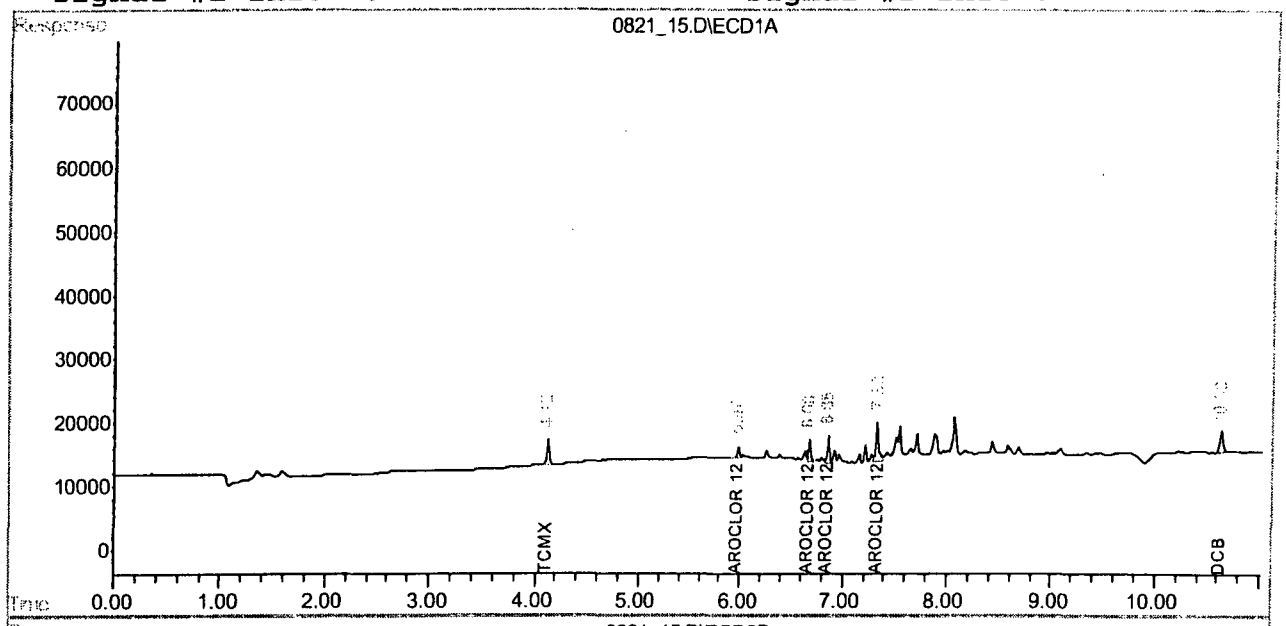
(f)=RT Delta > 1/2 Window (m)=manual int.

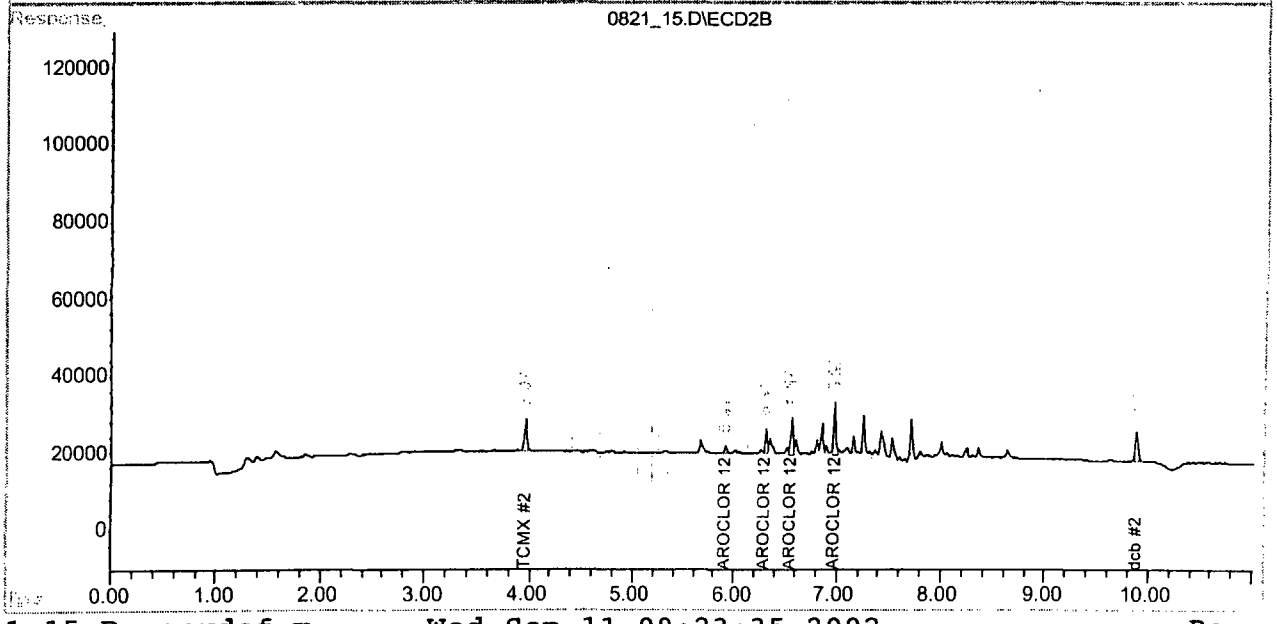
Quantitation Report (QT Reviewed)

Signal #1 : D:\DATA\SVGC#4\082102\0821_15.D\ECD1A.CH Vial: 11
Signal #2 : D:\DATA\SVGC#4\082102\0821_15.D\ECD2B.CH
Acq On : 21 Aug 2002 7:14 pm Operator: 308
Sample : L86934-03 20x WG81214 WIPE-10 Inst : SVGC4
Misc : Multiplr: 20.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Aug 21 19:41 2002 Quant Results File: 1254L.RES

Quant Method : C:\HPCHEM\2\METHODS\1254L.M (Chemstation Integrator)
Title :
Last Update : Wed Aug 21 19:40:56 2002
Response via : Multiple Level Calibration
DataAcq Meth : PCB20819.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (Not Reviewed)

Signal #1 : D:\DATA\SVGC#4\082102\0821_16.D\ECD1A.CH Vial: 12
Signal #2 : D:\DATA\SVGC#4\082102\0821_16.D\ECD2B.CH
Acq On : 21 Aug 2002 7:28 pm Operator: 308
Sample : L86934-02 500x WG81214 WIPE-10 Inst : SVGC4
Misc : Multiplr: 500.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Aug 21 19:39 2002 Quant Results File: PCB20819.RES

Quant Method : C:\HPCHEM\2\METHODS\PCB20819.M (Chemstation Integrator)
Title :
Last Update : Tue Aug 20 08:36:08 2002
Response via : Initial Calibration
DataAcq Meth : PCB20819.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) s TCMX	0.00	0	N.D. µg/mL
Spiked Amount 0.200	Range 41 - 145	Recovery =	0.00%#
10) s DCB	0.00	0	N.D. µg/mL
Spiked Amount 0.200	Range 39 - 137	Recovery =	0.00%#
12) s TCMX #2	3.96	8069	0.837 µg/mL
Spiked Amount 0.200	Range 41 - 145	Recovery =	418.50%#
21) s dcb #2	0.00	0	N.D. µg/mL
Spiked Amount 0.200	Range 39 - 137	Recovery =	0.00%#
Target Compounds			
2) m,t AROCLOR 1016(1)	0.00	0	N.D. µg/mL
3) m,t AROCLOR 1016(2)	0.00	0	N.D. µg/mL
4) m,t AROCLOR 1016(3)	0.00	0	N.D. µg/mL
5) m,t AROCLOR 1016(4)	5.97	49624	241.500 µg/mL
6) m,t AROCLOR 1260(1)	7.64	42318	280.631 µg/mL
7) m,t AROCLOR 1260(2)	7.70	101322	140.355 µg/mL
8) m,t AROCLOR 1260(3)	8.52	50090	181.131 µg/mL
9) m,t AROCLOR 1260(4)	8.68	58492	49.699 µg/mL
13) m,t AROCLOR 1016(1) #2	0.00	0	N.D. µg/mL
14) m,t AROCLOR 1016(2) #2	0.00	0	N.D. µg/mL
15) m,t AROCLOR 1016(3) #2	6.01	28177	235.162 µg/mL
16) m,t AROCLOR 1016(4) #2	6.31	199985	1402.582 µg/mL
17) m,t AROCLOR 1260(1) #2	7.15	273586	568.822 µg/mL
18) m,t AROCLOR 1260(2) #2	7.42	219392	304.371 µg/mL
19) m,t AROCLOR 1260(3) #2	7.70	510315	573.475 µg/mL
20) m,t AROCLOR 1260(4) #2	8.35	74151	73.408 µg/mL

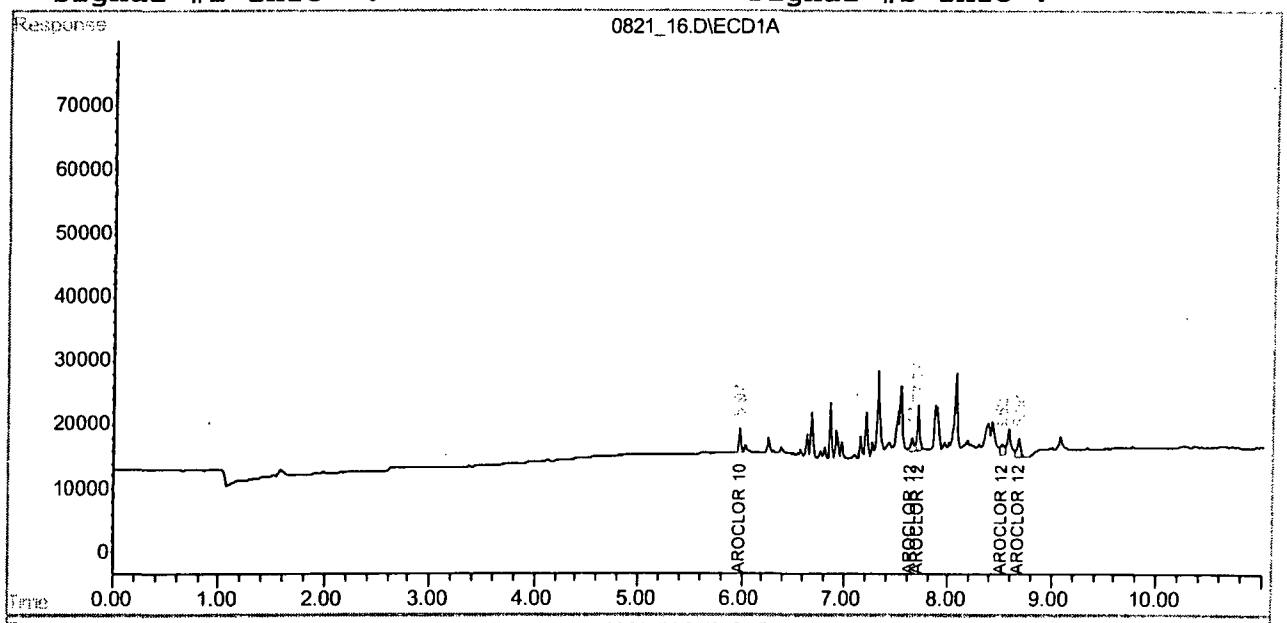
(f)=RT Delta > 1/2 Window (m)=manual int.

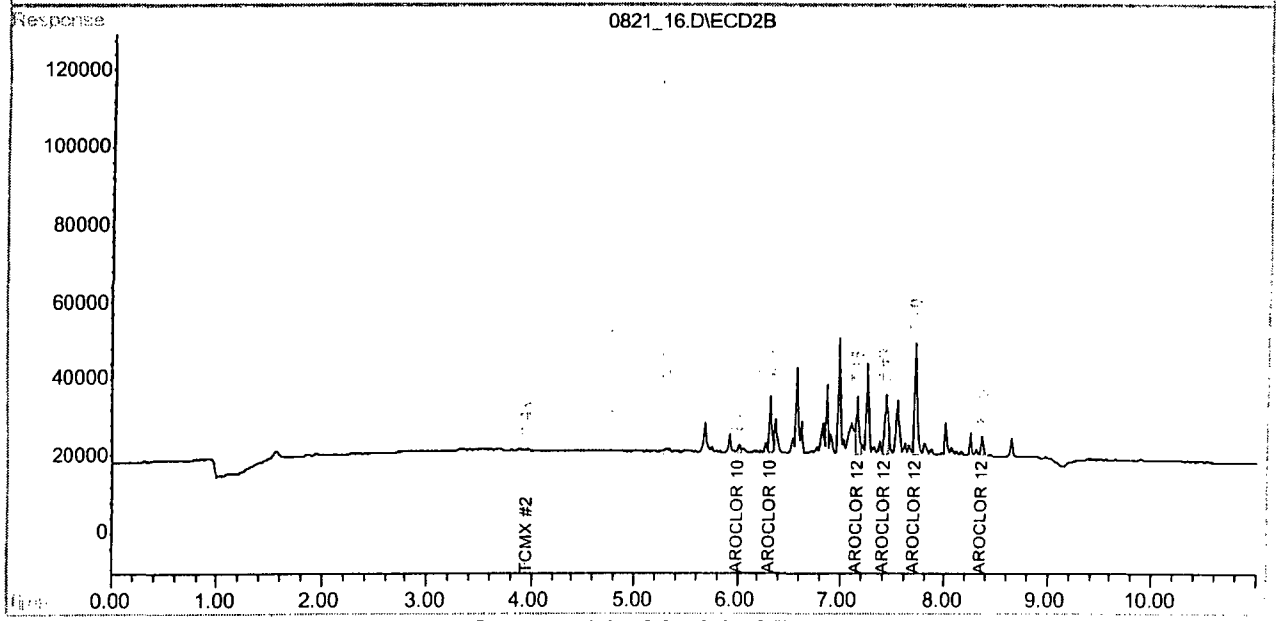
Quantitation Report (Not Reviewed)

Signal #1 : D:\DATA\SVGC#4\082102\0821_16.D\ECD1A.CH Vial: 12
Signal #2 : D:\DATA\SVGC#4\082102\0821_16.D\ECD2B.CH
Acq On : 21 Aug 2002 7:28 pm Operator: 308
Sample : L86934-02 500x WG81214 WIPE-10 Inst : SVGC4
Misc : Multiplr: 500.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Aug 21 19:39 2002 Quant Results File: PCB20819.RES

Quant Method : C:\HPCHEM\2\METHODS\PCB20819.M (Chemstation Integrator)
Title :
Last Update : Tue Aug 20 08:36:08 2002
Response via : Multiple Level Calibration
DataAcq Meth : PCB20819.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Signal #1 : D:\DATA\SVGC#4\082102\0821_16.D\ECD1A.CH Vial: 12
Signal #2 : D:\DATA\SVGC#4\082102\0821_16.D\ECD2B.CH
Acq On : 21 Aug 2002 7:28 pm Operator: 308
Sample : L86934-02 500x WG81214 WIPE-10 Inst : SVGC4
Misc : Multiplr: 500.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Aug 21 19:42 2002 Quant Results File: 1254L.RES

Quant Method : C:\HPCHEM\2\METHODS\1254L.M (Chemstation Integrator)
Title :
Last Update : Wed Aug 21 19:40:56 2002
Response via : Initial Calibration
DataAcq Meth : PCB20819.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) s TCMX	4.12	2872	0.260 µg/mLm
Spiked Amount 0.200	Range 41 - 145	Recovery =	130.00%
6) s DCB	0.00	0	N.D. µg/mL
Spiked Amount 0.200	Range 39 - 137	Recovery =	0.00%#
8) s TCMX #2	3.97	5174	0.202 µg/mLm
Spiked Amount 0.200	Range 41 - 145	Recovery =	101.00%
13) s dcb #2	9.89	5306	0.229 µg/mLm
Spiked Amount 0.200	Range 39 - 137	Recovery =	114.50%
Target Compounds			
2) m,t AROCLOR 1254(1)	5.97	49624	204.385 µg/mL
3) m,t AROCLOR 1254(2)	6.68	99351	222.419 µg/mL
4) m,t AROCLOR 1254(3)	6.86	114489	227.926 µg/mL
5) m,t AROCLOR 1254(4)	7.32	230715	238.415 µg/mL
9) m,t AROCLOR 1254(1) #2	5.91	66391	192.892 µg/mL
10) m,t AROCLOR 1254(2) #2	6.31	199985	231.876 µg/mL
11) m,t AROCLOR 1254(3) #2	6.56	366707	241.266 µg/mL
12) m,t AROCLOR 1254(4) #2	6.97	407032	241.433 µg/mL

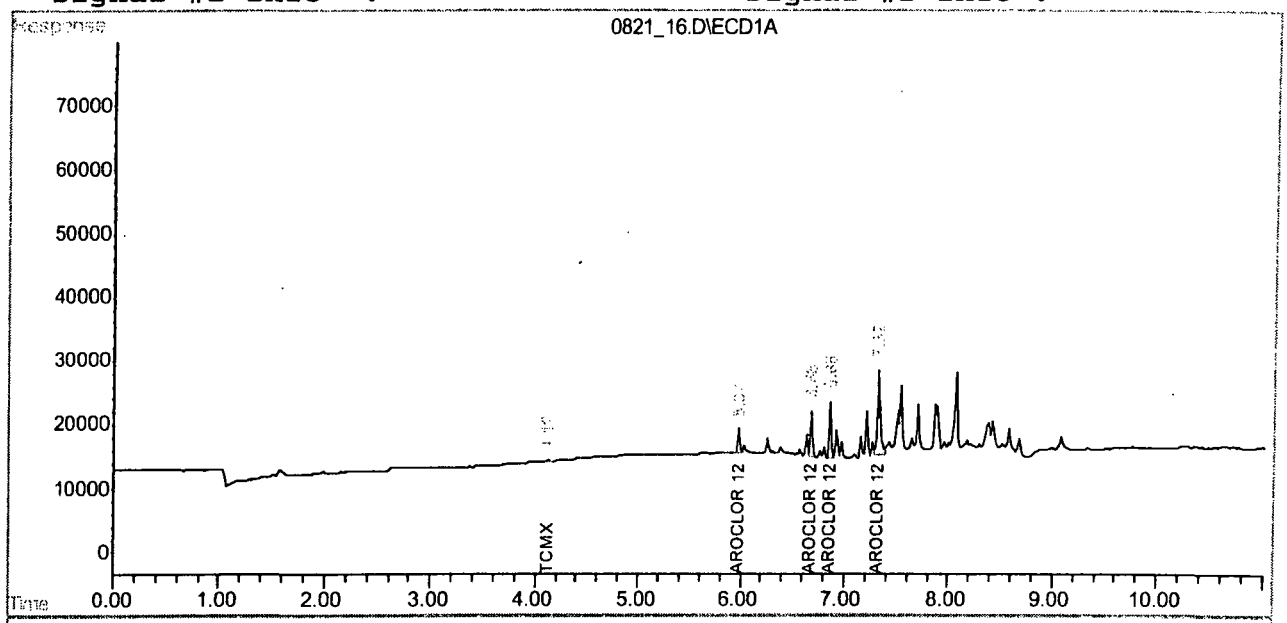
(f)=RT Delta > 1/2 Window (m)=manual int.
0821_16.D envdef.m Wed Sep 11 09:24:42 2002 Page 1

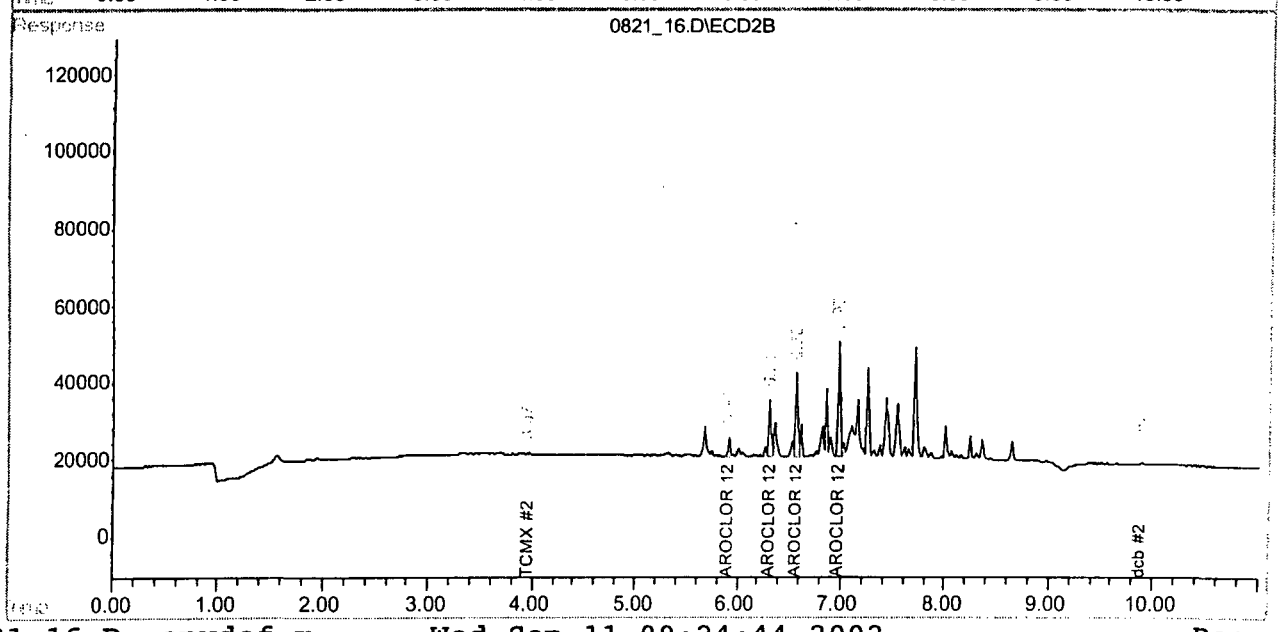
Quantitation Report (QT Reviewed)

Signal #1 : D:\DATA\SVGC#4\082102\0821_16.D\ECD1A.CH Vial: 12
Signal #2 : D:\DATA\SVGC#4\082102\0821_16.D\ECD2B.CH
Acq On : 21 Aug 2002 7:28 pm Operator: 308
Sample : L86934-02 500x WG81214 WIPE-10 Inst : SVGC4
Misc : Multiplr: 500.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Aug 21 19:42 2002 Quant Results File: 1254L.RES

Quant Method : C:\HPCHEM\2\METHODS\1254L.M (Chemstation Integrator)
Title :
Last Update : Wed Aug 21 19:40:56 2002
Response via : Multiple Level Calibration
DataAcq Meth : PCB20819.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





54

Quantitation Report (Not Reviewed)

Signal #1 : D:\DATA\SVGC#4\082102\0821_17.D\ECD1A.CH Vial: 13
Signal #2 : D:\DATA\SVGC#4\082102\0821_17.D\ECD2B.CH
Acq On : 21 Aug 2002 7:42 pm Operator: 308
Sample : L86934-01 500x WG81214 5-10 Inst : SVGC4
Misc : Multiplr: 500.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Aug 21 19:54 2002 Quant Results File: PCB20821.RES

Quant Method : C:\HPCHEM\2\METHODS\PCB20821.M (Chemstation Integrator)
Title :
Last Update : Wed Aug 21 16:50:10 2002
Response via : Initial Calibration
DataAcq Meth : PCB20819.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound			R.T.	Response		Conc Units
System Monitoring Compounds						
1) s TCMX			4.12	14606		1.320 µg/mL
Spiked Amount	0.200	Range	41 - 145	Recovery	=	660.00%#
10) s DCB			10.63	7472		0.705 µg/mL
Spiked Amount	0.200	Range	39 - 137	Recovery	=	352.50%#
12) s TCMX #2			3.97	8054		0.314 µg/mL
Spiked Amount	0.200	Range	41 - 145	Recovery	=	157.00%#
21) s dcb #2			9.89	37760		1.626 µg/mL
Spiked Amount	0.200	Range	39 - 137	Recovery	=	813.00%#
Target Compounds						
2) m,t AROCLOR 1016(1)			4.70	13359		56.346 µg/mL
3) m,t AROCLOR 1016(2)			5.42	8625		47.393 µg/mL
4) m,t AROCLOR 1016(3)			5.78	33519		84.319 µg/mL
5) m,t AROCLOR 1016(4)			5.97	413039		2042.820 µg/mL
6) m,t AROCLOR 1260(1)			7.64	308454		1735.058 µg/mL
7) m,t AROCLOR 1260(2)			7.70	918733		1281.176 µg/mL
8) m,t AROCLOR 1260(3)			8.52	94337		325.732 µg/mL
9) m,t AROCLOR 1260(4)			8.68	372331		343.417 µg/mL
13) m,t AROCLOR 1016(1) #2			4.40	11687		28.555 µg/mL
14) m,t AROCLOR 1016(2) #2			5.55	55502		98.063 µg/mL
15) m,t AROCLOR 1016(3) #2			6.00	306651		888.663 µg/mL
16) m,t AROCLOR 1016(4) #2			6.56	3095172		5737.100 µg/mL
17) m,t AROCLOR 1260(1) #2			7.15	1534251		1187.338 µg/mL
18) m,t AROCLOR 1260(2) #2			7.42	2952932		1444.792 µg/mL
19) m,t AROCLOR 1260(3) #2			7.70	4111705		1708.949 µg/mL
20) m,t AROCLOR 1260(4) #2			8.35	740088		285.252 µg/mL

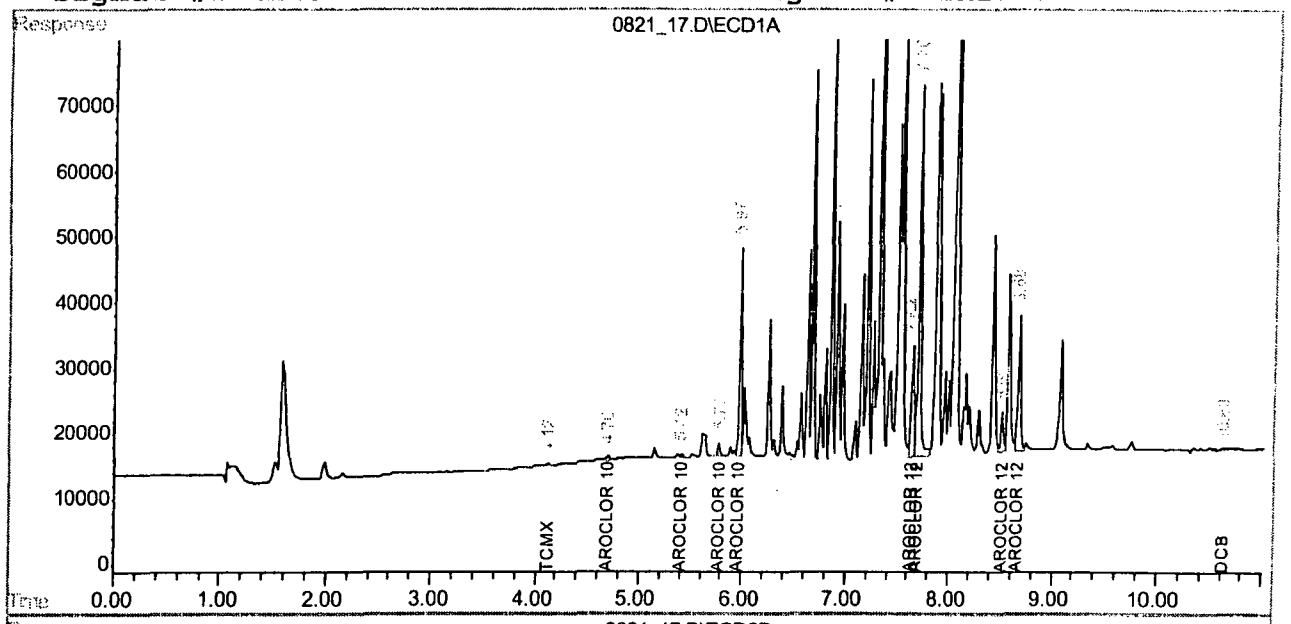
(f)=RT Delta > 1/2 Window (m)=manual int.
0821_17.D envdef.m Wed Sep 11 09:25:09 2002 Page 1

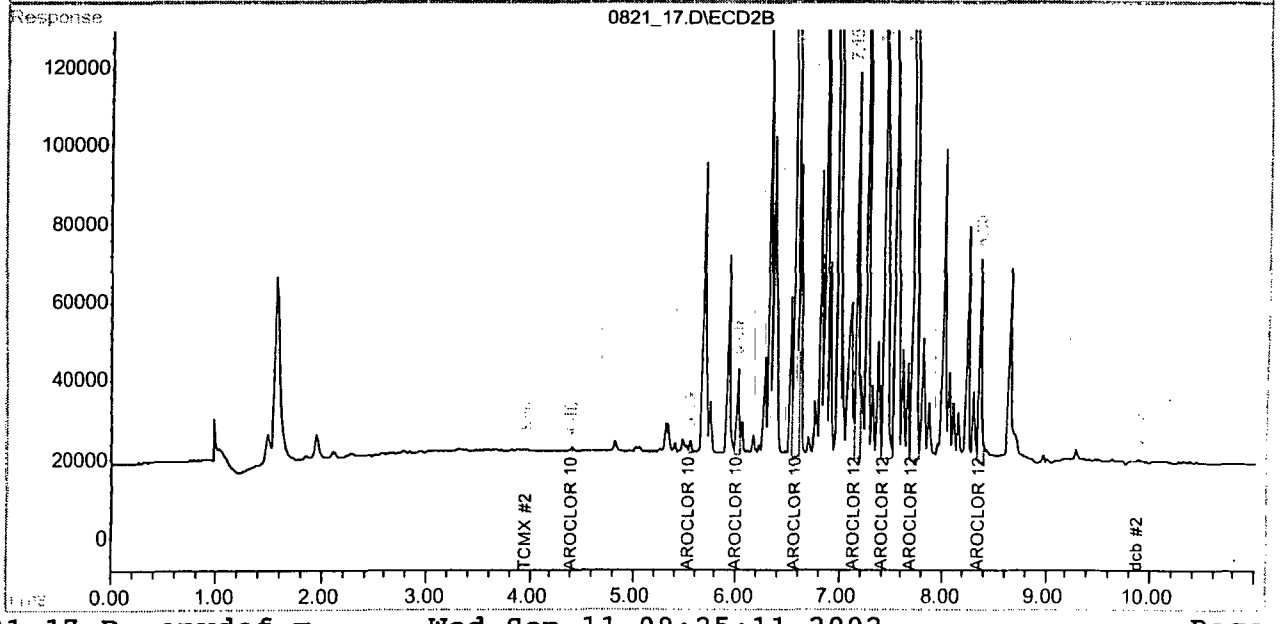
Quantitation Report (Not Reviewed)

Signal #1 : D:\DATA\SVGC#4\082102\0821_17.D\ECD1A.CH Vial: 13
Signal #2 : D:\DATA\SVGC#4\082102\0821_17.D\ECD2B.CH
Acq On : 21 Aug 2002 7:42 pm Operator: 308
Sample : L86934-01 500x WG81214 5-10 Inst : SVGC4
Misc : Multiplr: 500.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Aug 21 19:54 2002 Quant Results File: PCB20821.RES

Quant Method : C:\HPCHEM\2\METHODS\PCB20821.M (Chemstation Integrator)
Title :
Last Update : Wed Aug 21 16:50:10 2002
Response via : Multiple Level Calibration
DataAcq Meth : PCB20819.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (Not Reviewed)

Signal #1 : D:\DATA\SVGC#4\082102\0821_17A.D\ECD1A.CH Vial: 13
Signal #2 : D:\DATA\SVGC#4\082102\0821_17A.D\ECD2B.CH
Acq On : 21 Aug 2002 8:11 pm Operator: 308
Sample : L86934-01 5000x WG81214 5-10 H Inst : SVGC4
Misc : Multiplr: 5000.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Aug 21 20:22 2002 Quant Results File: PCB20819.RES

Quant Method : C:\HPCHEM\2\METHODS\PCB20819.M (Chemstation Integrator)
Title :
Last Update : Tue Aug 20 08:36:08 2002
Response via : Initial Calibration
DataAcq Meth : PCB20819.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) s TCMX	4.16f	11286	10.072 µg/mL
Spiked Amount 0.200 Range 41 - 145		Recovery	= 5036.00%#
10) s DCB	10.49f	95352	88.254 µg/mL
Spiked Amount 0.200 Range 39 - 137		Recovery	= 44127.00%#
12) s TCMX #2	0.00	0	N.D. µg/mL
Spiked Amount 0.200 Range 41 - 145		Recovery	= 0.00%#
21) s dcb #2	0.00	0	N.D. µg/mL
Spiked Amount 0.200 Range 39 - 137		Recovery	= 0.00%#
Target Compounds			
2) m,t AROCLOR 1016(1)	4.70	78865	3685.154 µg/mL
3) m,t AROCLOR 1016(2)	0.00	0	N.D. µg/mL
4) m,t AROCLOR 1016(3)	0.00	0	N.D. µg/mL
5) m,t AROCLOR 1016(4)	5.98	59605	2900.727 µg/mL
6) m,t AROCLOR 1260(1)	7.64	69586	4614.566 µg/mL
7) m,t AROCLOR 1260(2)	7.70	147476	2042.888 µg/mL
8) m,t AROCLOR 1260(3)	8.52	101559	3672.490 µg/mL
9) m,t AROCLOR 1260(4)	8.68	19617	166.676 µg/mL
13) m,t AROCLOR 1016(1) #2	0.00	0	N.D. µg/mL
14) m,t AROCLOR 1016(2) #2	5.48f	8713	421.339 µg/mL
15) m,t AROCLOR 1016(3) #2	6.01	37012	3088.987 µg/mL
16) m,t AROCLOR 1016(4) #2	6.31	252929	17739.041 µg/mL
17) m,t AROCLOR 1260(1) #2	7.15	354456	7369.632 µg/mL
18) m,t AROCLOR 1260(2) #2	7.42	358438	4972.744 µg/mL
19) m,t AROCLOR 1260(3) #2	7.70	742978	8349.336 µg/mL
20) m,t AROCLOR 1260(4) #2	8.35	89718	888.193 µg/mL

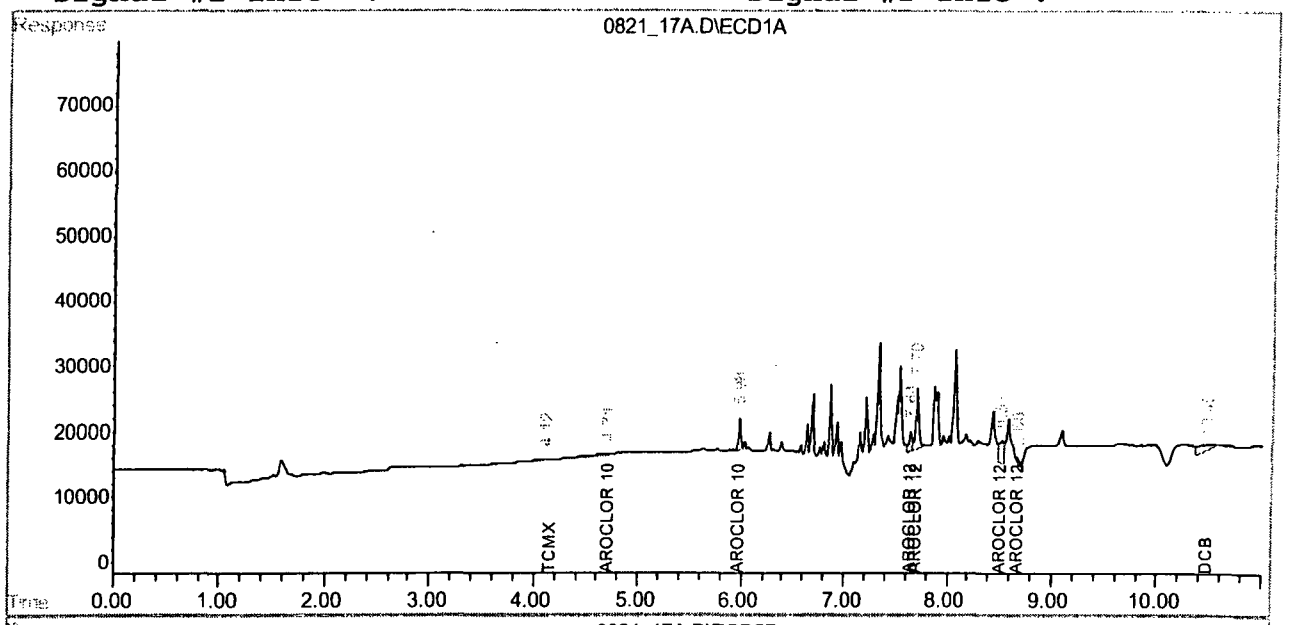
(f)=RT Delta > 1/2 Window (m)=manual int.
0821_17A.D envdef.m Wed Sep 11 09:25:29 2002 Page 1

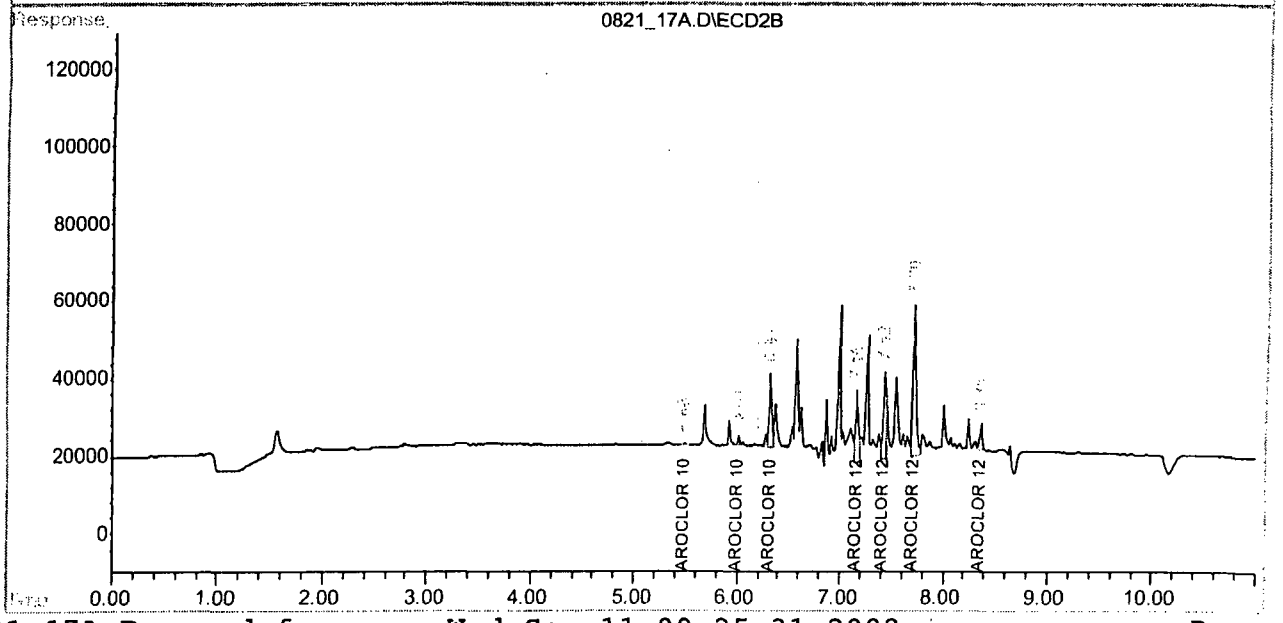
Quantitation Report (Not Reviewed)

Signal #1 : D:\DATA\SVGC#4\082102\0821_17A.D\ECD1A.CH Vial: 13
Signal #2 : D:\DATA\SVGC#4\082102\0821_17A.D\ECD2B.CH
Acq On : 21 Aug 2002 8:11 pm Operator: 308
Sample : L86934-01 5000x WG81214 5-10 H Inst : SVGC4
Misc : Multiplr: 5000.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Aug 21 20:22 2002 Quant Results File: PCB20819.RES

Quant Method : C:\HPCHEM\2\METHODS\PCB20819.M (Chemstation Integrator)
Title :
Last Update : Tue Aug 20 08:36:08 2002
Response via : Multiple Level Calibration
DataAcq Meth : PCB20819.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Signal #1 : D:\DATA\SVGC#4\082102\0821_17A.D\ECD1A.CH Vial: 13
Signal #2 : D:\DATA\SVGC#4\082102\0821_17A.D\ECD2B.CH
Acq On : 21 Aug 2002 8:11 pm Operator: 308
Sample : L86934-01 5000x WG81214 5-10 H Inst : SVGC4
Misc : Multiplr: 5000.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Aug 21 20:26 2002 Quant Results File: 1254L.RES

Quant Method : C:\HPCHEM\2\METHODS\1254L.M (Chemstation Integrator)
Title :
Last Update : Wed Aug 21 19:40:56 2002
Response via : Initial Calibration
DataAcq Meth : PCB20819.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) s TCMX	4.16	11286	10.200 µg/mL
Spiked Amount 0.200	Range 41 - 145	Recovery	= 5100.00%#
6) s DCB	0.00	0	N.D. µg/mL
Spiked Amount 0.200	Range 39 - 137	Recovery	= 0.00%#
8) s TCMX #2	0.00	0	N.D. µg/mL
Spiked Amount 0.200	Range 41 - 145	Recovery	= 0.00%#
13) s dcb #2	0.00	0	N.D. µg/mL
Spiked Amount 0.200	Range 39 - 137	Recovery	= 0.00%#
Target Compounds			
2) m,t AROCLOR 1254(1)	5.98	59605	2454.926 µg/mL
3) m,t AROCLOR 1254(2)	6.68	128967	2887.204 µg/mLm
4) m,t AROCLOR 1254(3)	6.86	146887	2924.247 µg/mLm
5) m,t AROCLOR 1254(4)	7.32	254295	2627.830 µg/mLm
9) m,t AROCLOR 1254(1) #2	5.91	95097	2762.926 µg/mL
10) m,t AROCLOR 1254(2) #2	6.31	252929	2932.638 µg/mL
11) m,t AROCLOR 1254(3) #2	6.57	441241	2903.040 µg/mLm
12) m,t AROCLOR 1254(4) #2	6.97	541761	3213.484 µg/mLm

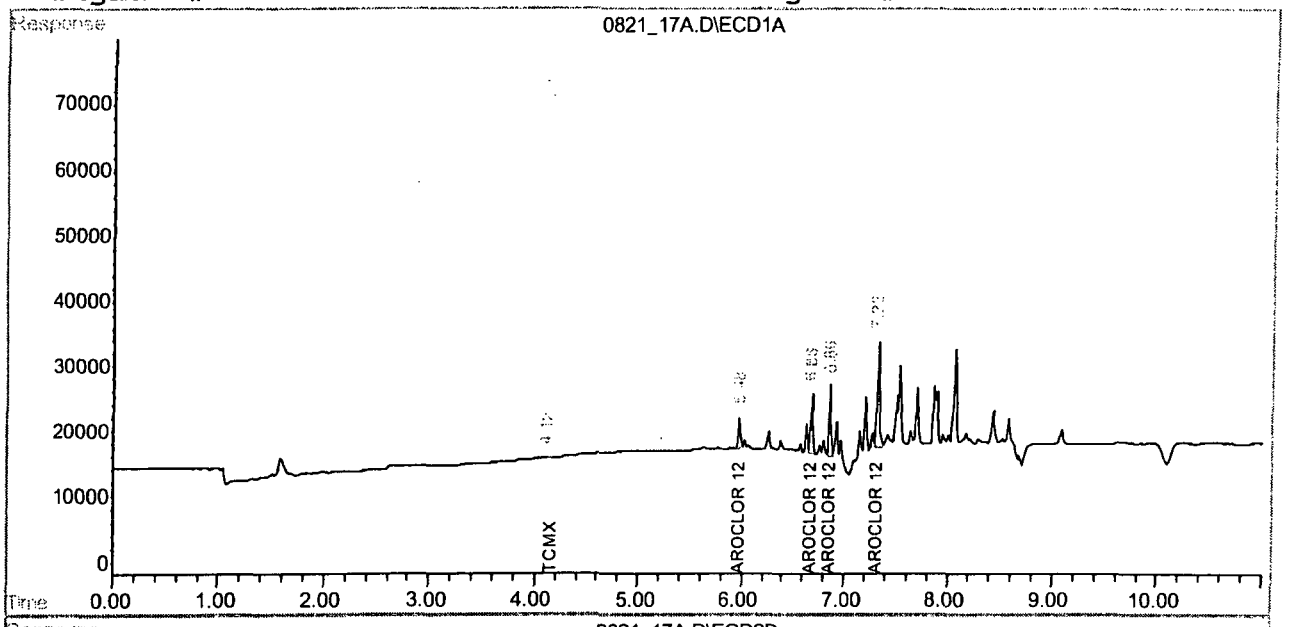
(f)=RT Delta > 1/2 Window (m)=manual int.
0821_17A.D envdef.m Wed Sep 11 09:25:45 2002 Page 1

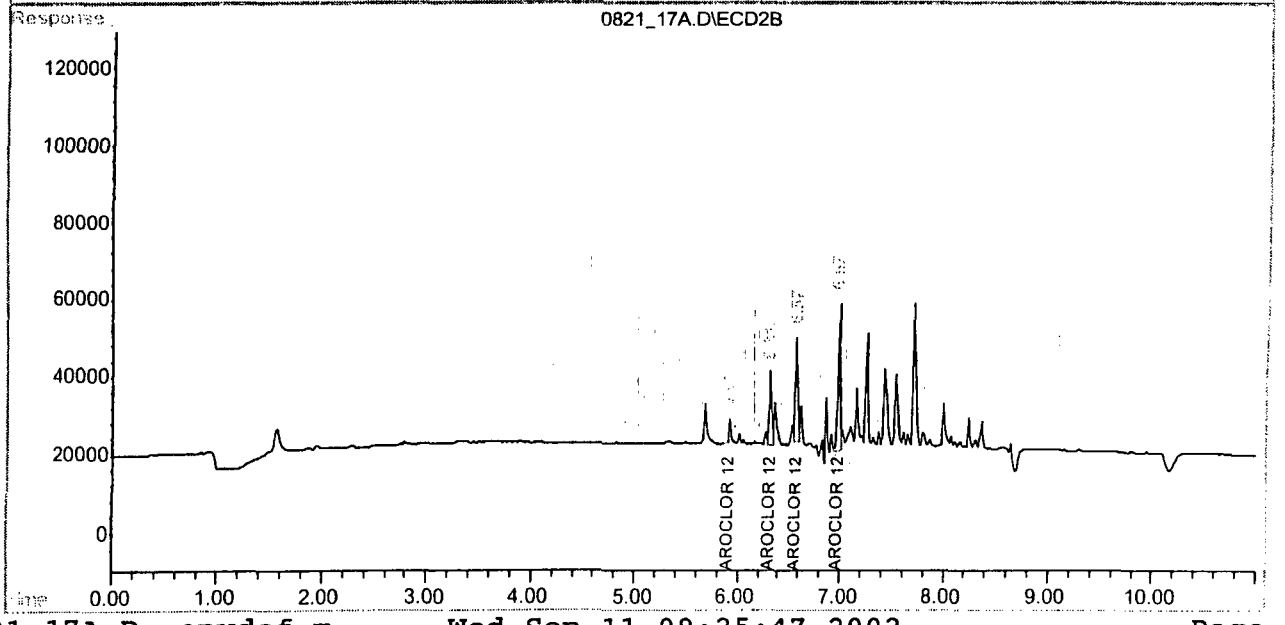
Quantitation Report (QT Reviewed)

Signal #1 : D:\DATA\SVGC#4\082102\0821_17A.D\ECD1A.CH Vial: 13
Signal #2 : D:\DATA\SVGC#4\082102\0821_17A.D\ECD2B.CH
Acq On : 21 Aug 2002 8:11 pm Operator: 308
Sample : L86934-01 5000x WG81214 5-10 H Inst : SVGC4
Misc : Multiplr: 5000.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Aug 21 20:26 2002 Quant Results File: 1254L.RES

Quant Method : C:\HPCHEM\2\METHODS\1254L.M (Chemstation Integrator)
Title :
Last Update : Wed Aug 21 19:40:56 2002
Response via : Multiple Level Calibration
DataAcq Meth : PCB20819.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Signal #1 : D:\DATA\SVGC#4\082102\0821_20.D\ECD1A.CH Vial: 2
Signal #2 : D:\DATA\SVGC#4\082102\0821_20.D\ECD2B.CH
Acq On : 21 Aug 2002 8:59 pm Operator: 308
Sample : 1016/1260 .50ppm Inst : SVGC4
Misc : BS030104K30 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Aug 21 21:14 2002 Quant Results File: PCB20821.RES

Quant Method : C:\HPCHEM\2\METHODS\PCB20821.M (Chemstation Integrator)
Title :
Last Update : Wed Aug 21 16:50:10 2002
Response via : Initial Calibration
DataAcq Meth : PCB20819.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound			R.T.	Response		Conc Units
System Monitoring Compounds						
1) s TCMX			4.12	551780		0.100 µg/mLm
Spiked Amount	0.200	Range	41 - 145	Recovery	=	50.00%
10) s DCB			10.63	607276		0.115 µg/mL
Spiked Amount	0.200	Range	39 - 137	Recovery	=	57.50%
12) s TCMX #2			3.96	1090623		0.085 µg/mL
Spiked Amount	0.200	Range	41 - 145	Recovery	=	42.50%
21) s dcb #2			9.88	1305213		0.112 µg/mL
Spiked Amount	0.200	Range	39 - 137	Recovery	=	56.00%
Target Compounds						
2) m,t AROCLOR 1016(1)			4.70	55995		0.472 µg/mLm
3) m,t AROCLOR 1016(2)			5.42	44703		0.491 µg/mLm
4) m,t AROCLOR 1016(3)			5.78	96587		0.486 µg/mLm
5) m,t AROCLOR 1016(4)			5.98	52855		0.523 µg/mLm
6) m,t AROCLOR 1260(1)			7.64	39129		0.440 µg/mLm
7) m,t AROCLOR 1260(2)			7.70	184464		0.514 µg/mLm
8) m,t AROCLOR 1260(3)			8.51	70817		0.489 µg/mL
9) m,t AROCLOR 1260(4)			8.68	306785		0.566 µg/mL
13) m,t AROCLOR 1016(1) #2			4.40	97103		0.475 µg/mL
14) m,t AROCLOR 1016(2) #2			5.55	128985		0.456 µg/mLm
15) m,t AROCLOR 1016(3) #2			6.00	77344		0.448 µg/mLm
16) m,t AROCLOR 1016(4) #2			6.57	128488		0.476 µg/mLm
17) m,t AROCLOR 1260(1) #2			7.15	295028		0.457 µg/mLm
18) m,t AROCLOR 1260(2) #2			7.42	480387		0.470 µg/mLm
19) m,t AROCLOR 1260(3) #2			7.70	640567		0.532 µg/mL
20) m,t AROCLOR 1260(4) #2			8.35	690013		0.532 µg/mL

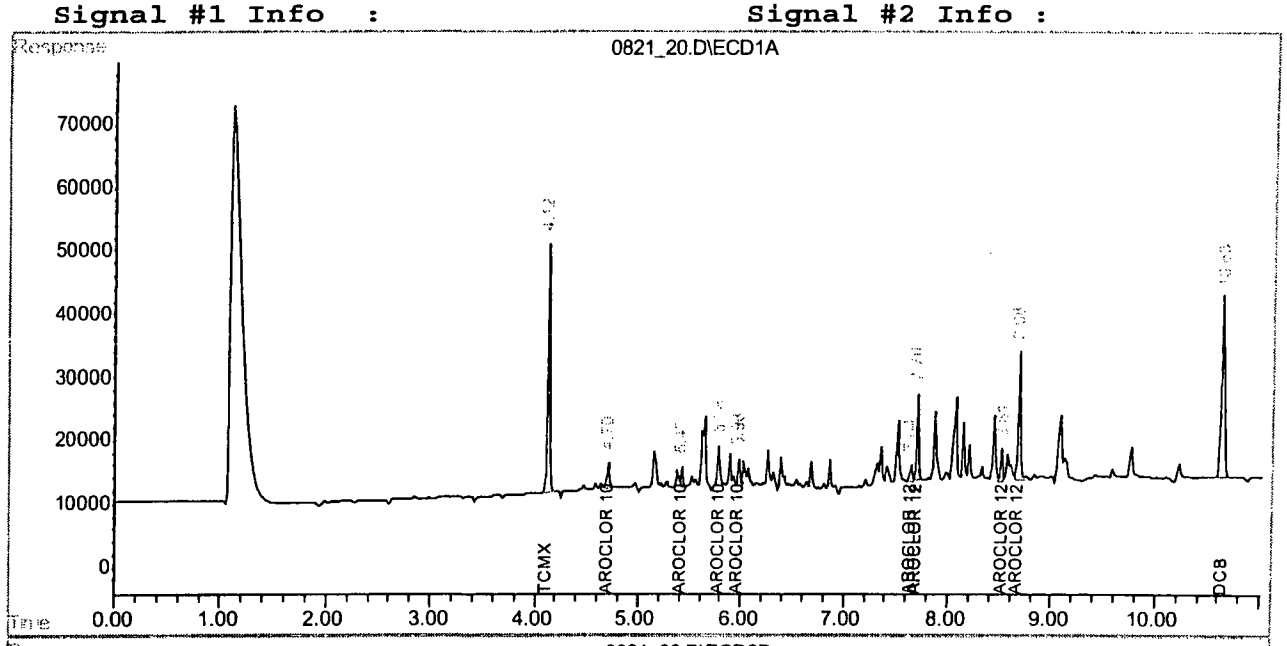
(f)=RT Delta > 1/2 Window (m)=manual int.
0821_20.D envdef.m Wed Sep 11 09:26:09 2002 Page 1

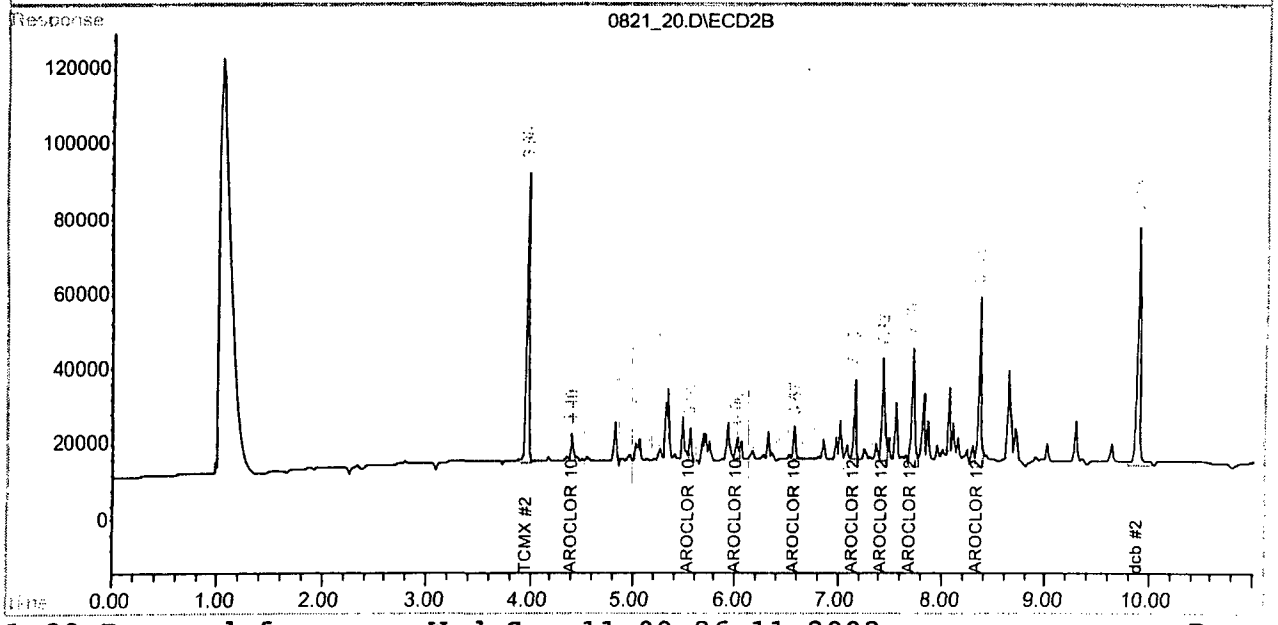
Quantitation Report (QT Reviewed)

Signal #1 : D:\DATA\SVGC#4\082102\0821_20.D\ECD1A.CH Vial: 2
Signal #2 : D:\DATA\SVGC#4\082102\0821_20.D\ECD2B.CH
Acq On : 21 Aug 2002 8:59 pm Operator: 308
Sample : 1016/1260 .50ppm Inst : SVGC4
Misc : BS030104K30 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Aug 21 21:14 2002 Quant Results File: PCB20821.RES

Quant Method : C:\HPCHEM\2\METHODS\PCB20821.M (Chemstation Integrator)
Title :
Last Update : Wed Aug 21 16:50:10 2002
Response via : Multiple Level Calibration
DataAcq Meth : PCB20819.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Response Factor Report SVGC4

Method : C:\HPCHEM\2\METHODS\PCB20821.M (Chemstation Integrator)
Title :
Last Update : Wed Aug 21 16:50:10 2002

8/21/02 KL

Calibration Files
1 =0821_02.D 2 =0821_03.D 3 =0821_04.D
4 =0821_05.D 5 =0821_06.D 6 =0821_07.D

		Compound	1	2	3	4	5	6	Avg		%RSD
1)	s	TCMX	5.014	6.146	5.732	5.162	5.489	5.650	5.532	E6	7.40
2)	m,t	AROCLOR 1016(1)	0.993	1.096	1.123	1.192	1.167	1.540	1.185	E5	15.78
3)	m,t	AROCLOR 1016(2)	0.710	0.838	0.923	0.877	1.003	1.108	0.910	E5	15.09
4)	m,t	AROCLOR 1016(3)	1.606	2.002	2.042	1.989	2.128	2.159	1.988	E5	10.01
5)	m,t	AROCLOR 1016(4)	0.852	0.904	0.970	0.924	1.244	1.172	1.011	E5	15.72
6)	m,t	AROCLOR 1260(1)	0.766	0.898	0.803	0.746	1.106	1.014	0.889	E5	16.35
7)	m,t	AROCLOR 1260(2)	2.851	3.698	3.623	3.299	4.020	4.023	3.586	E5	12.57
8)	m,t	AROCLOR 1260(3)	1.186	1.433	1.462	1.158	1.759	1.690	1.448	E5	17.14
9)	m,t	AROCLOR 1260(4)	3.475	5.988	6.064	5.435	5.761	5.803	5.421	E5	18.05
10)	s	DCB	4.671	5.684	5.446	4.945	5.518	5.525	5.298	E6	7.49

Signal #2 Calibration Files
1 =0821_02.D 2 =0821_03.D 3 =0821_04.D
4 =0821_05.D 5 =0821_06.D 6 =0821_07.D

		Compound	1	2	3	4	5	6	Avg		%RSD
1)	s	TCMX	1.181	1.391	1.313	1.167	1.319	1.317	1.281	E7	6.87
2)	m,t	AROCLOR 1016(1)	1.627	1.941	2.131	2.024	2.265	2.290	2.046	E5	12.00
3)	m,t	AROCLOR 1016(2)	2.853	2.788	2.717	2.750	2.895	2.975	2.830	E5	3.41
4)	m,t	AROCLOR 1016(3)	1.352	1.812	1.744	1.687	1.885	1.873	1.725	E5	11.47
5)	m,t	AROCLOR 1016(4)	2.305	2.735	2.549	2.618	3.029	2.948	2.698	E5	9.90
[illegible]	m,t	AROCLOR 1260(1)	6.060	6.963	6.358	6.247	6.652	6.486	6.461	E5	4.92
[illegible]	m,t	AROCLOR 1260(2)	0.923	1.080	1.022	1.004	1.057	1.045	1.022	E6	5.41
8)	m,t	AROCLOR 1260(3)	1.179	1.281	1.170	1.184	1.213	1.190	1.203	E6	3.42
9)	m,t	AROCLOR 1260(4)	1.281	1.366	1.285	1.244	1.294	1.313	1.297	E6	3.15
10)	s	dcb	1.124	1.247	1.110	1.119	1.143	1.222	1.161	E7	5.05

64

(#) = Out of Range

Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\2\DATA\082102\0821_02.D\ECD1A.CH Vial: 2
Signal #2 : C:\HPCHEM\2\DATA\082102\0821_02.D\ECD2B.CH
Acq On : 21 Aug 2002 3:19 pm Operator: 308
Sample : 1016/1260 .05ppm Inst : SVGC4
Misc : BS030104K30 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Aug 21 16:48 2002 Quant Results File: PCB20821.RES

Quant Method : C:\HPCHEM\2\METHODS\PCB20821.M (Chemstation Integrator)
Title :
Last Update : Wed Aug 21 16:22:33 2002
Response via : Initial Calibration
DataAcq Meth : PCB20819.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound			R.T.	Response	Conc Units
System Monitoring Compounds					
1) s TCMX			4.12	50138	0.006 µg/mLm
Spiked Amount	0.200	Range	41 - 145	Recovery =	3.00%#
10) s DCB			10.63	46715	0.005 µg/mL
Spiked Amount	0.200	Range	39 - 137	Recovery =	2.50%#
12) s TCMX #2			3.97	118079	0.012 µg/mL
Spiked Amount	0.200	Range	41 - 145	Recovery =	6.00%#
21) s dcb #2			9.88	112399	0.012 µg/mLm
Spiked Amount	0.200	Range	39 - 137	Recovery =	6.00%#
Target Compounds					
2) m,t AROCLOR 1016(1)			4.69	4967	0.027 µg/mLm
3) m,t AROCLOR 1016(2)			5.41	3549	0.025 µg/mLm
4) m,t AROCLOR 1016(3)			5.77	8030	0.027 µg/mLm
5) m,t AROCLOR 1016(4)			5.97	4259	0.026 µg/mLm
6) m,t AROCLOR 1260(1)			7.64	3831	0.035 µg/mLm
7) m,t AROCLOR 1260(2)			7.70	14253	0.025 µg/mL
8) m,t AROCLOR 1260(3)			8.51	5929	0.027 µg/mLm
9) m,t AROCLOR 1260(4)			8.68	17373	0.021 µg/mLm
13) m,t AROCLOR 1016(1) #2			4.40	8135	0.049 µg/mL
14) m,t AROCLOR 1016(2) #2			5.55	14265	0.076 µg/mL
15) m,t AROCLOR 1016(3) #2			6.00	6760	0.060 µg/mLm
16) m,t AROCLOR 1016(4) #2			6.57	11526	0.065 µg/mLm
17) m,t AROCLOR 1260(1) #2			7.15	30300	N.D. µg/mLm
18) m,t AROCLOR 1260(2) #2			7.42	46151	0.074 µg/mLm
19) m,t AROCLOR 1260(3) #2			7.70	58960	0.082 µg/mLm
20) m,t AROCLOR 1260(4) #2			8.35	64029	0.082 µg/mLm

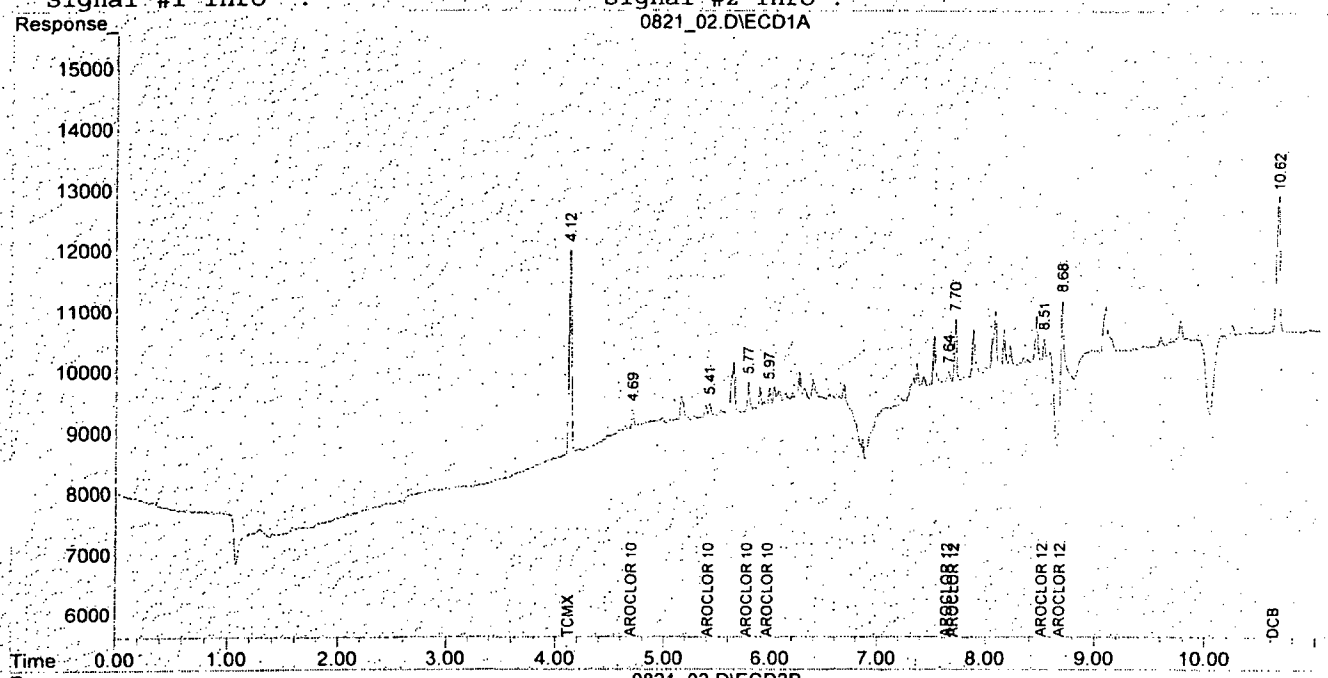
(f)=RT Delta > 1/2 Window (m)=manual int.

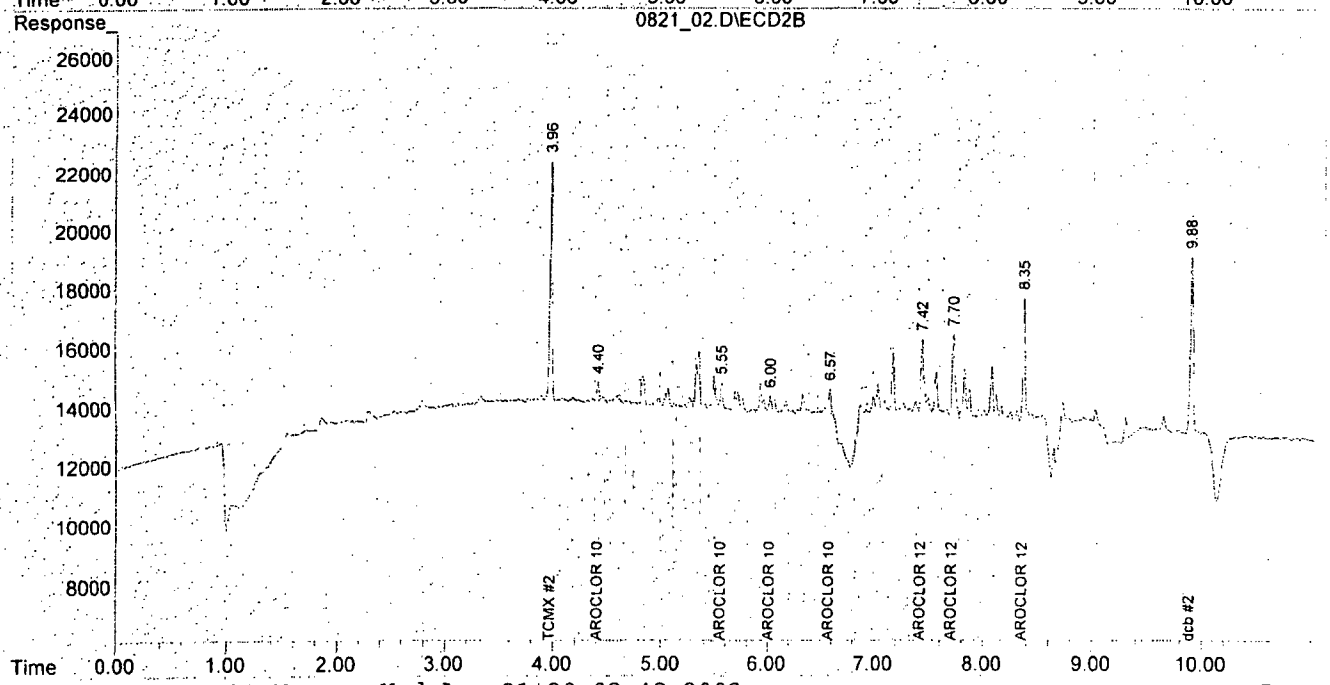
Quantitation Report

Signal #1 : C:\HPCHEM\2\DATA\082102\0821_02.D\ECD1A.CH Vial: 2
Signal #2 : C:\HPCHEM\2\DATA\082102\0821_02.D\ECD2B.CH
Acq On : 21 Aug 2002 3:19 pm Operator: 308
Sample : 1016/1260 .05ppm Inst : SVGC4
Misc : BS030104K30 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Aug 21 16:48 2002 Quant Results File: PCB20821.RES

Quant Method : C:\HPCHEM\2\METHODS\PCB20821.M (Chemstation Integrator)
Title :
Last Update : Wed Aug 21 16:22:33 2002
Response via : Multiple Level Calibration
DataAcq Meth : PCB20819.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\2\DATA\082102\0821_03.D\ECD1A.CH Vial: 3
Signal #2 : C:\HPCHEM\2\DATA\082102\0821_03.D\ECD2B.CH
Acq On : 21 Aug 2002 3:33 pm Operator: 308
Sample : 1016/1260 .10ppm Inst : SVGC4
Misc : BS030104K30 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Aug 21 16:25 2002 Quant Results File: PCB20821.RES

Quant Method : C:\HPCHEM\2\METHODS\PCB20821.M (Chemstation Integrator)
Title :
Last Update : Wed Aug 21 16:24:17 2002
Response via : Initial Calibration
DataAcq Meth : PCB20819.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) s TCMX	4.11	122922	0.016 µg/mLm
Spiked Amount 0.200	Range 41 - 145	Recovery =	8.00%#
10) s DCB	10.62	113677	0.015 µg/mLm
Spiked Amount 0.200	Range 39 - 137	Recovery =	7.50%#
12) s TCMX #2	3.96	278224	0.028 µg/mL
Spiked Amount 0.200	Range 41 - 145	Recovery =	14.00%#
21) s dcb #2	9.88	249428	0.026 µg/mL
Spiked Amount 0.200	Range 39 - 137	Recovery =	13.00%#
Target Compounds			
2) m,t AROCLOR 1016(1)	4.69	10961	0.067 µg/mL
3) m,t AROCLOR 1016(2)	5.41	8384	0.067 µg/mL
4) m,t AROCLOR 1016(3)	5.77	20019	0.074 µg/mL
5) m,t AROCLOR 1016(4)	5.97	9035	0.060 µg/mL
6) m,t AROCLOR 1260(1)	7.64	8978	0.085 µg/mLm
7) m,t AROCLOR 1260(2)	7.70	36984	0.073 µg/mLm
8) m,t AROCLOR 1260(3)	8.51	14329	0.064 µg/mL
9) m,t AROCLOR 1260(4)	8.67	59881	0.058 µg/mLm
13) m,t AROCLOR 1016(1) #2	4.40	19415	0.119 µg/mL
14) m,t AROCLOR 1016(2) #2	5.54	27884	0.135 µg/mL
15) m,t AROCLOR 1016(3) #2	6.00	18115	0.150 µg/mL
16) m,t AROCLOR 1016(4) #2	6.56	27349	0.144 µg/mL
17) m,t AROCLOR 1260(1) #2	7.15	69628	0.114 µg/mLm
18) m,t AROCLOR 1260(2) #2	7.41	108047	0.157 µg/mLm
19) m,t AROCLOR 1260(3) #2	7.70	128144	0.160 µg/mL
20) m,t AROCLOR 1260(4) #2	8.34	136643	0.158 µg/mLm

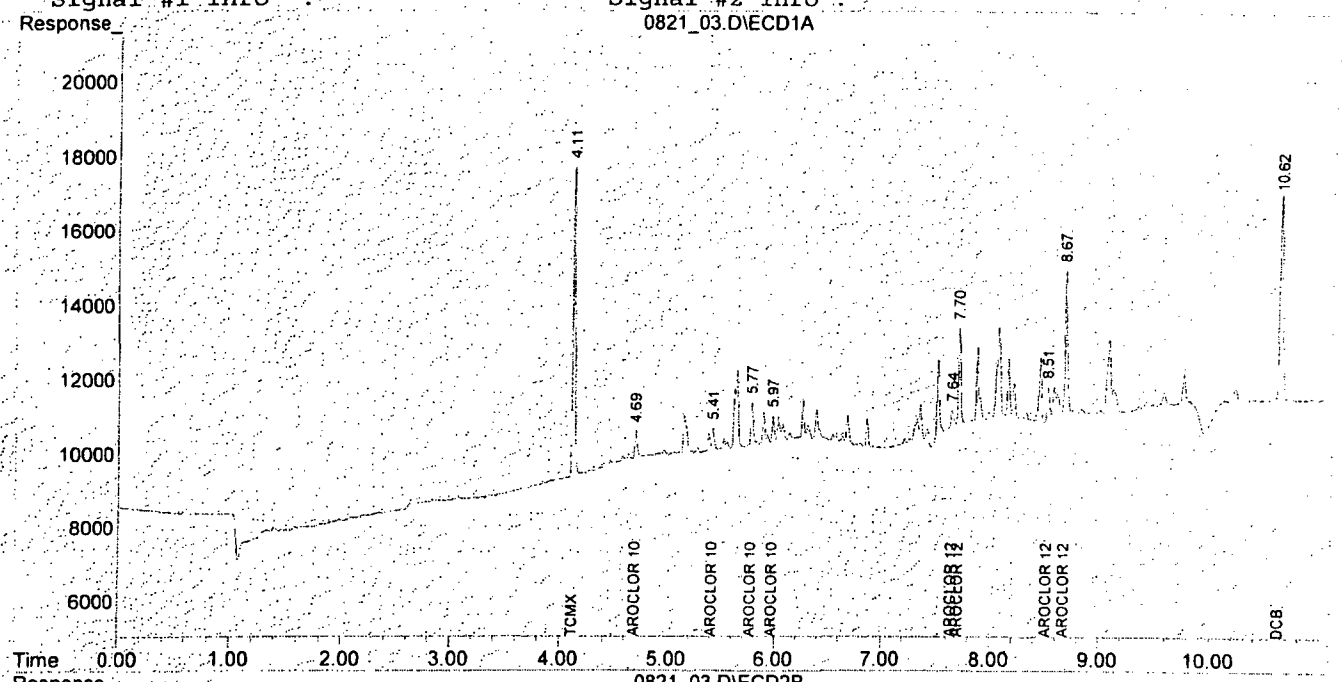
(f)=RT Delta > 1/2 Window (m)=manual int.
0821_03.D PCB20821.M Wed Aug 21 20:02:43 2002

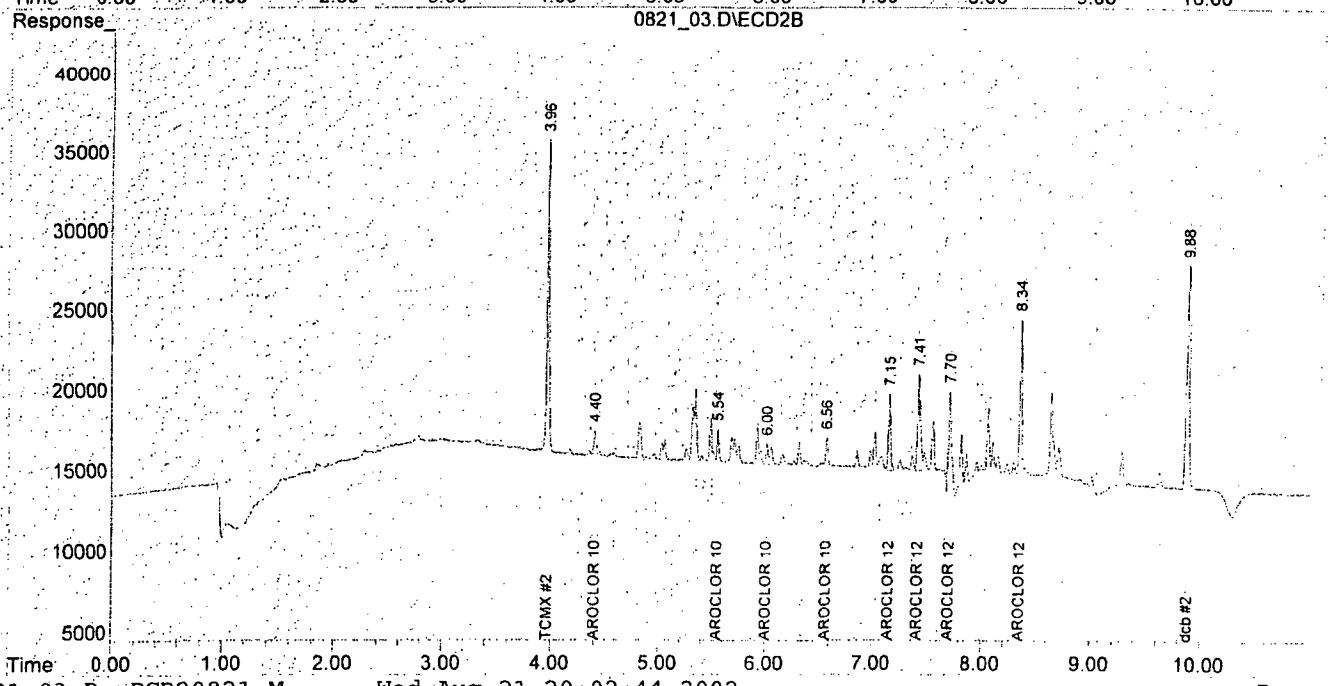
Quantitation Report

Signal #1 : C:\HPCHEM\2\DATA\082102\0821_03.D\ECD1A.CH Vial: 3
Signal #2 : C:\HPCHEM\2\DATA\082102\0821_03.D\ECD2B.CH
Acq On : 21 Aug 2002 3:33 pm Operator: 308
Sample : 1016/1260 .10ppm Inst : SVGC4
Misc : BS030104K30 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Aug 21 16:25 2002 Quant Results File: PCB20821.RES

Quant Method : C:\HPCHEM\2\METHODS\PCB20821.M (Chemstation Integrator)
Title :
Last Update : Wed Aug 21 16:24:17 2002
Response via : Multiple Level Calibration
DataAcq Meth : PCB20819.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\2\DATA\082102\0821_04.D\ECD1A.CH Vial: 4
Signal #2 : C:\HPCHEM\2\DATA\082102\0821_04.D\ECD2B.CH
Acq On : 21 Aug 2002 3:47 pm Operator: 308
Sample : 1016/1260 .25ppm Inst : SVGC4
Misc : BS030104K30 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Aug 21 16:25 2002 Quant Results File: PCB20821.RES

Quant Method : C:\HPCHEM\2\METHODS\PCB20821.M (Chemstation Integrator)
Title :
Last Update : Wed Aug 21 16:25:08 2002
Response via : Initial Calibration
DataAcq Meth : PCB20819.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

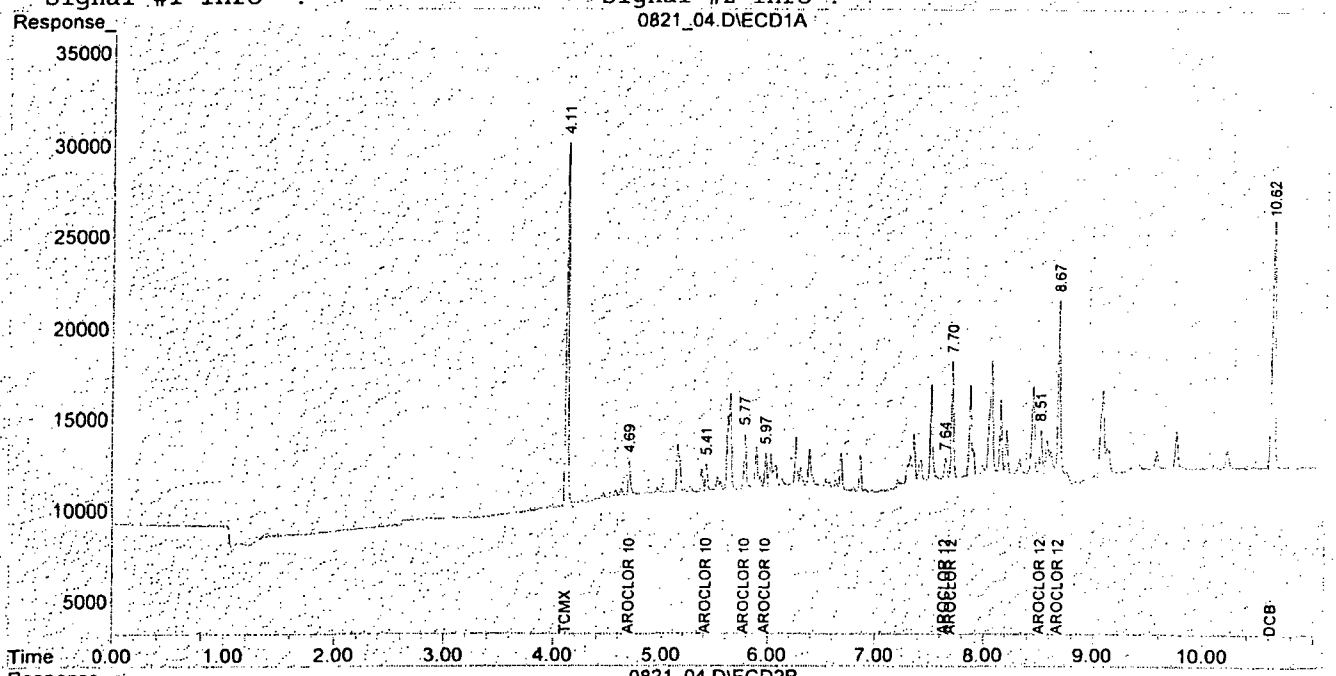
Compound			R.T.	Response	Conc Units
System Monitoring Compounds					
1) s TCMX			4.11	286600	0.041 µg/mLm
Spiked Amount	0.200	Range	41 - 145	Recovery =	20.50%#
10) s DCB			10.62	272322	0.040 µg/mL
Spiked Amount	0.200	Range	39 - 137	Recovery =	20.00%#
12) s TCMX #2			3.96	656542	0.063 µg/mL
Spiked Amount	0.200	Range	41 - 145	Recovery =	31.50%#
21) s dcb #2			9.87	554972	0.054 µg/mL
Spiked Amount	0.200	Range	39 - 137	Recovery =	27.00%#
Target Compounds					
2) m,t AROCLOR 1016(1)			4.69	28071	0.191 µg/mL
3) m,t AROCLOR 1016(2)			5.41	23086	0.203 µg/mL
4) m,t AROCLOR 1016(3)			5.77	51060	0.205 µg/mLm
5) m,t AROCLOR 1016(4)			5.97	24258	0.184 µg/mLm
6) m,t AROCLOR 1260(1)			7.64	20070	0.199 µg/mL
7) m,t AROCLOR 1260(2)			7.70	90570	0.206 µg/mL
8) m,t AROCLOR 1260(3)			8.51	36562	0.178 µg/mLm
9) m,t AROCLOR 1260(4)			8.67	151604	0.163 µg/mLm
13) m,t AROCLOR 1016(1) #2			4.40	53273	0.321 µg/mL
14) m,t AROCLOR 1016(2) #2			5.54	67933	0.305 µg/mL
15) m,t AROCLOR 1016(3) #2			6.00	43602	0.332 µg/mL
16) m,t AROCLOR 1016(4) #2			6.56	63735	0.310 µg/mL
17) m,t AROCLOR 1260(1) #2			7.15	158939	0.413 µg/mL
18) m,t AROCLOR 1260(2) #2			7.41	255439	0.341 µg/mL
19) m,t AROCLOR 1260(3) #2			7.70	292559	0.332 µg/mL
20) m,t AROCLOR 1260(4) #2			8.34	321361	0.337 µg/mL

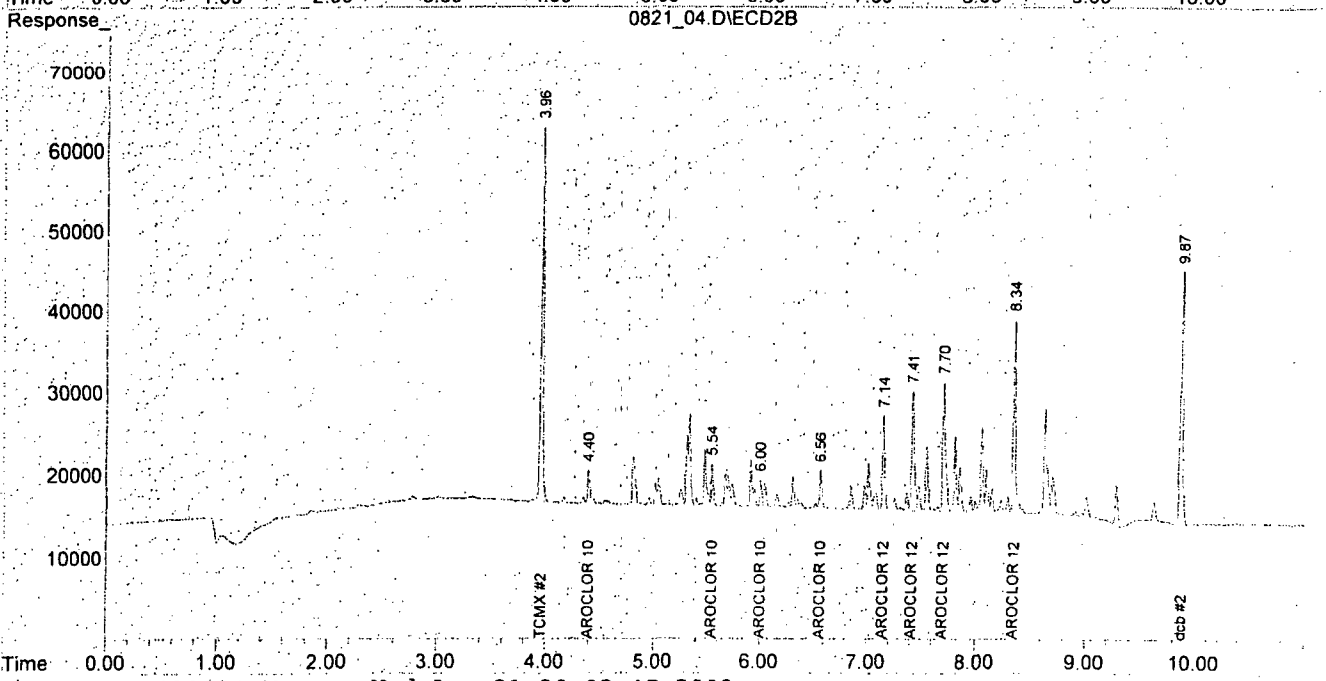
Quantitation Report

Signal #1 : C:\HPCHEM\2\DATA\082102\0821_04.D\ECD1A.CH Vial: 4
Signal #2 : C:\HPCHEM\2\DATA\082102\0821_04.D\ECD2B.CH
Acq On : 21 Aug 2002 3:47 pm Operator: 308
Sample : 1016/1260 .25ppm Inst : SVGC4
Misc : BS030104K30 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Aug 21 16:25 2002 Quant Results File: PCB20821.RES

Quant Method : C:\HPCHEM\2\METHODS\PCB20821.M (Chemstation Integrator)
Title :
Last Update : Wed Aug 21 16:25:08 2002
Response via : Multiple Level Calibration
DataAcq Meth : PCB20819.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\2\DATA\082102\0821_05.D\ECD1A.CH Vial: 5
Signal #2 : C:\HPCHEM\2\DATA\082102\0821_05.D\ECD2B.CH
Acq On : 21 Aug 2002 4:01 pm Operator: 308
Sample : 1016/1260 .50ppm Inst : SVGC4
Misc : BS030104K30 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Aug 21 16:50 2002 Quant Results File: PCB20821.RES

Quant Method : C:\HPCHEM\2\METHODS\PCB20821.M (Chemstation Integrator)
Title :
Last Update : Tue Aug 20 14:16:51 2002
Response via : Initial Calibration
DataAcq Meth : PCB20819.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) s TCMX	4.11	516238	0.055 µg/mLm
Spiked Amount 0.200	Range 41 - 145	Recovery =	27.50%#
10) s DCB	10.61	494540	0.053 µg/mL
Spiked Amount 0.200	Range 39 - 137	Recovery =	26.50%#
12) s TCMX #2	3.96	1167414	0.128 µg/mL
Spiked Amount 0.200	Range 41 - 145	Recovery =	64.00%
21) s dcb #2	9.87	1119274	0.127 µg/mL
Spiked Amount 0.200	Range 39 - 137	Recovery =	63.50%
Target Compounds			
2) m,t AROCLOR 1016(1)	4.69	59622	0.305 µg/mL
3) m,t AROCLOR 1016(2)	5.41	43852	0.295 µg/mLm
4) m,t AROCLOR 1016(3)	5.77	99440	0.313 µg/mLm
5) m,t AROCLOR 1016(4)	5.97	46213	0.253 µg/mLm
6) m,t AROCLOR 1260(1)	7.64	37319	0.318 µg/mL
7) m,t AROCLOR 1260(2)	7.70	164936	0.271 µg/mL
8) m,t AROCLOR 1260(3)	8.51	57924	0.248 µg/mLm
9) m,t AROCLOR 1260(4)	8.67	271731	0.302 µg/mLm
13) m,t AROCLOR 1016(1) #2	4.40	101218	0.633 µg/mL
14) m,t AROCLOR 1016(2) #2	5.54	137524	0.813 µg/mLm
15) m,t AROCLOR 1016(3) #2	6.00	84361	0.832 µg/mL
16) m,t AROCLOR 1016(4) #2	6.56	130890	0.820 µg/mL
17) m,t AROCLOR 1260(1) #2	7.14	312367	1.087 µg/mL
18) m,t AROCLOR 1260(2) #2	7.41	502207	0.938 µg/mL
19) m,t AROCLOR 1260(3) #2	7.70	591825	0.964 µg/mL
20) m,t AROCLOR 1260(4) #2	8.34	621800	0.919 µg/mL

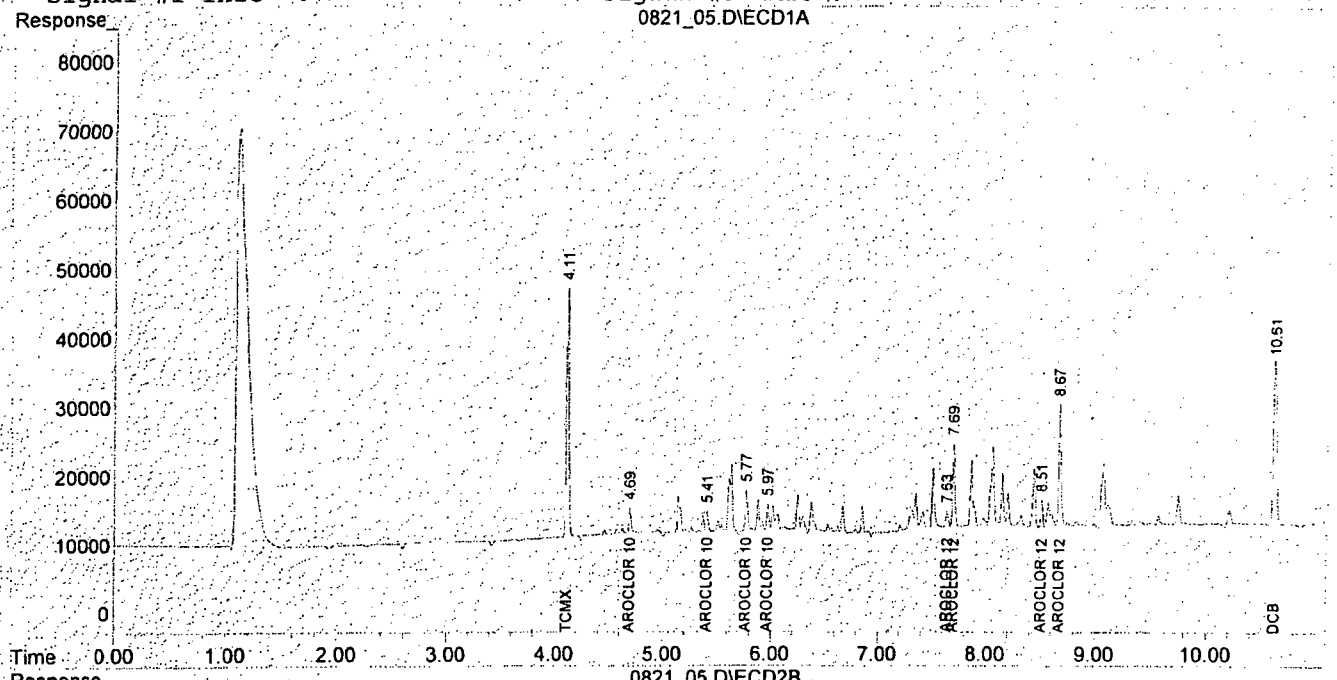
(f)=RT Delta > 1/2 Window (m)=manual int.

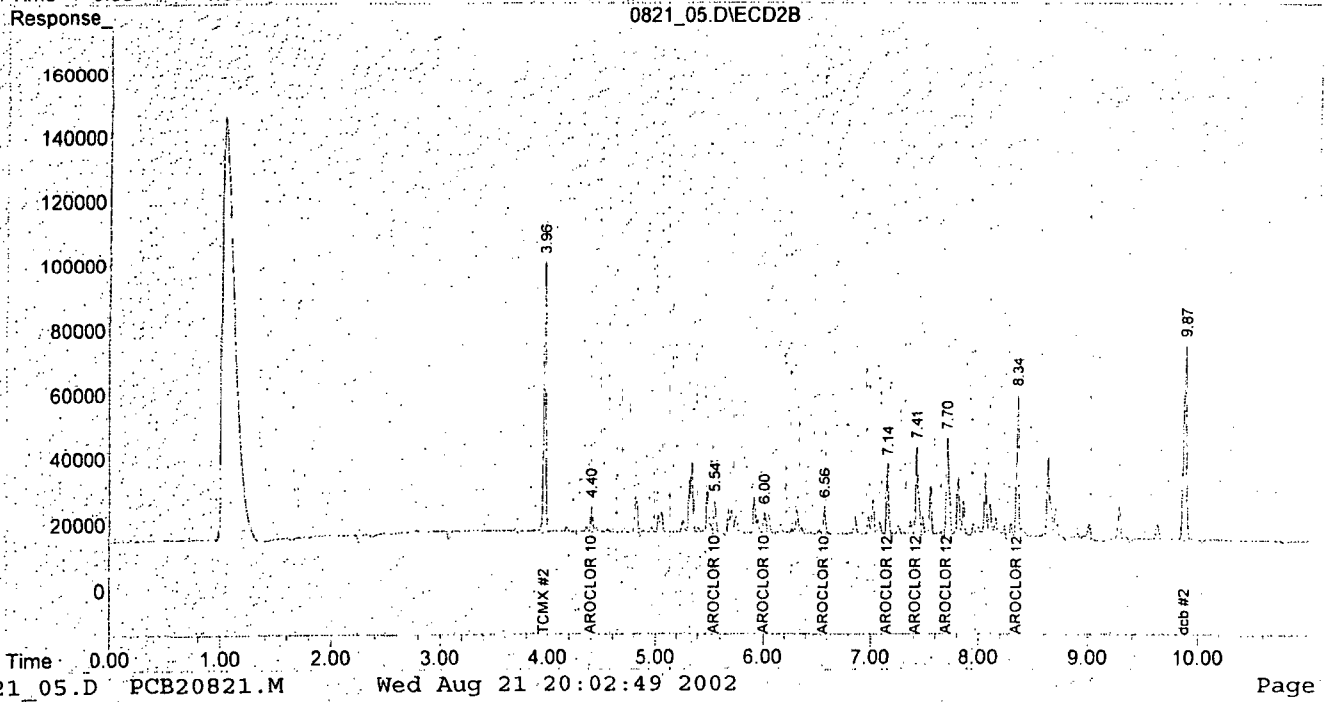
Quantitation Report

Signal #1 : C:\HPCHEM\2\DATA\082102\0821_05.D\ECD1A.CH Vial: 5
Signal #2 : C:\HPCHEM\2\DATA\082102\0821_05.D\ECD2B.CH
Acq On : 21 Aug 2002 4:01 pm Operator: 308
Sample : 1016/1260 .50ppm Inst : SVGC4
Misc : BS030104K30 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Aug 21 16:50 2002 Quant Results File: PCB20821.RES

Quant Method : C:\HPCHEM\2\METHODS\PCB20821.M (Chemstation Integrator)
Title :
Last Update : Tue Aug 20 14:16:51 2002
Response via : Multiple Level Calibration
DataAcq Meth : PCB20819.M

Volume Inj : Signal #2 Phase:
Signal #1 Phase : Signal #2 Info :
Signal #1 Info :





Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\2\DATA\082102\0821_06.D\ECD1A.CH Vial: 6
Signal #2 : C:\HPCHEM\2\DATA\082102\0821_06.D\ECD2B.CH
Acq On : 21 Aug 2002 4:15 pm Operator: 308
Sample : 1016/1260 .75ppm Inst : SVGC4
Misc : BS030104K30 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Aug 21 16:43 2002 Quant Results File: PCB20821.RES

Quant Method : C:\HPCHEM\2\METHODS\PCB20821.M (Chemstation Integrator)
Title :
Last Update : Wed Aug 21 16:25:43 2002
Response via : Initial Calibration
DataAcq Meth : PCB20819.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) s TCMX	4.11	823332	0.130 µg/mLm
Spiked Amount 0.200	Range 41 - 145	Recovery =	65.00%
10) s DCB	10.61	827744	0.134 µg/mL
Spiked Amount 0.200	Range 39 - 137	Recovery =	67.00%
12) s TCMX #2	3.96	1978195	0.177 µg/mL
Spiked Amount 0.200	Range 41 - 145	Recovery =	88.50%
21) s dcb #2	9.87	1714638	0.162 µg/mL
Spiked Amount 0.200	Range 39 - 137	Recovery =	81.00%
Target Compounds			
2) m,t AROCLOR 1016(1)	4.69	87556	0.660 µg/mL
3) m,t AROCLOR 1016(2)	5.41	75199	0.742 µg/mL
4) m,t AROCLOR 1016(3)	5.77	159564	0.702 µg/mLm
5) m,t AROCLOR 1016(4)	5.97	93315	0.783 µg/mL
6) m,t AROCLOR 1260(1)	7.64	82948	0.900 µg/mL
7) m,t AROCLOR 1260(2)	7.69	301498	0.759 µg/mLm
8) m,t AROCLOR 1260(3)	8.51	131895	0.690 µg/mL
9) m,t AROCLOR 1260(4)	8.67	432099	0.494 µg/mL
13) m,t AROCLOR 1016(1) #2	4.40	169859	0.950 µg/mL
14) m,t AROCLOR 1016(2) #2	5.54	217109	0.904 µg/mL
15) m,t AROCLOR 1016(3) #2	6.00	141342	0.986 µg/mL
16) m,t AROCLOR 1016(4) #2	6.56	227209	1.025 µg/mL
17) m,t AROCLOR 1260(1) #2	7.14	498915	1.720 µg/mL
18) m,t AROCLOR 1260(2) #2	7.41	792998	0.953 µg/mL
19) m,t AROCLOR 1260(3) #2	7.70	909974	0.929 µg/mL
20) m,t AROCLOR 1260(4) #2	8.34	970622	0.916 µg/mL

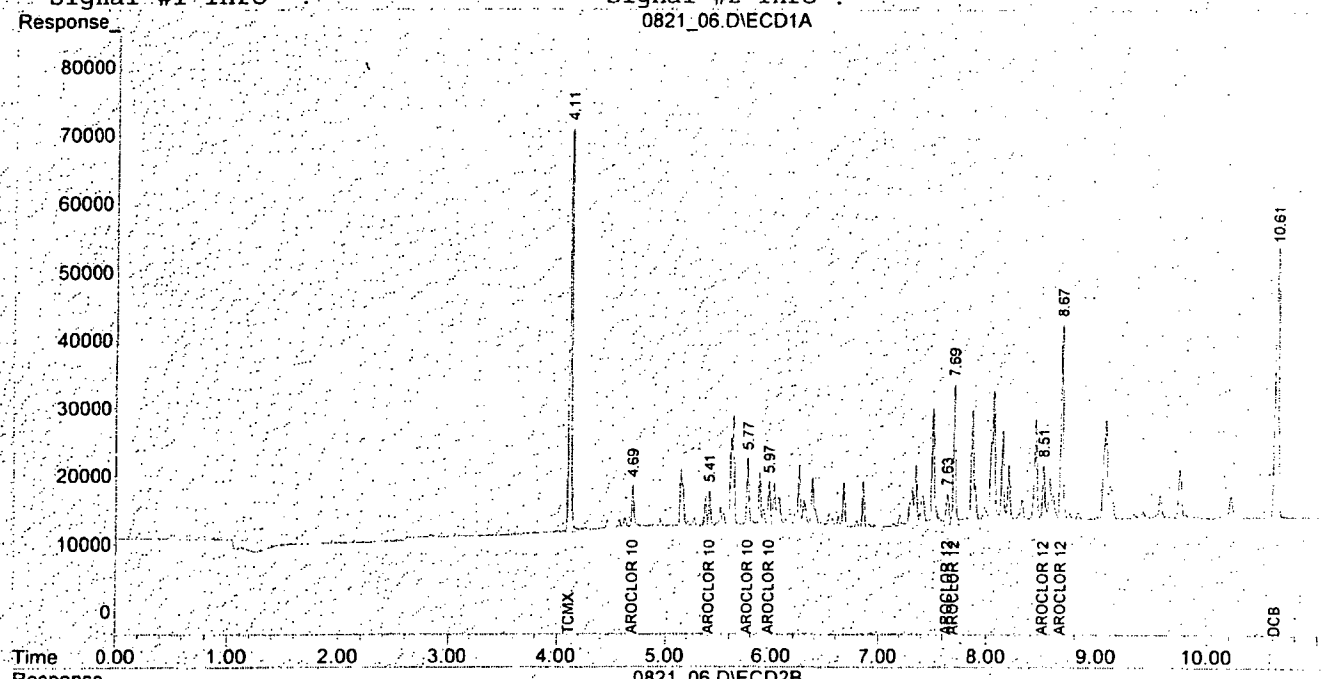
(f)=RT Delta > 1/2 Window (m)=manual int.
0821_06.D PCB20821.M Wed Aug 21 20:02:50 2002 Page 1

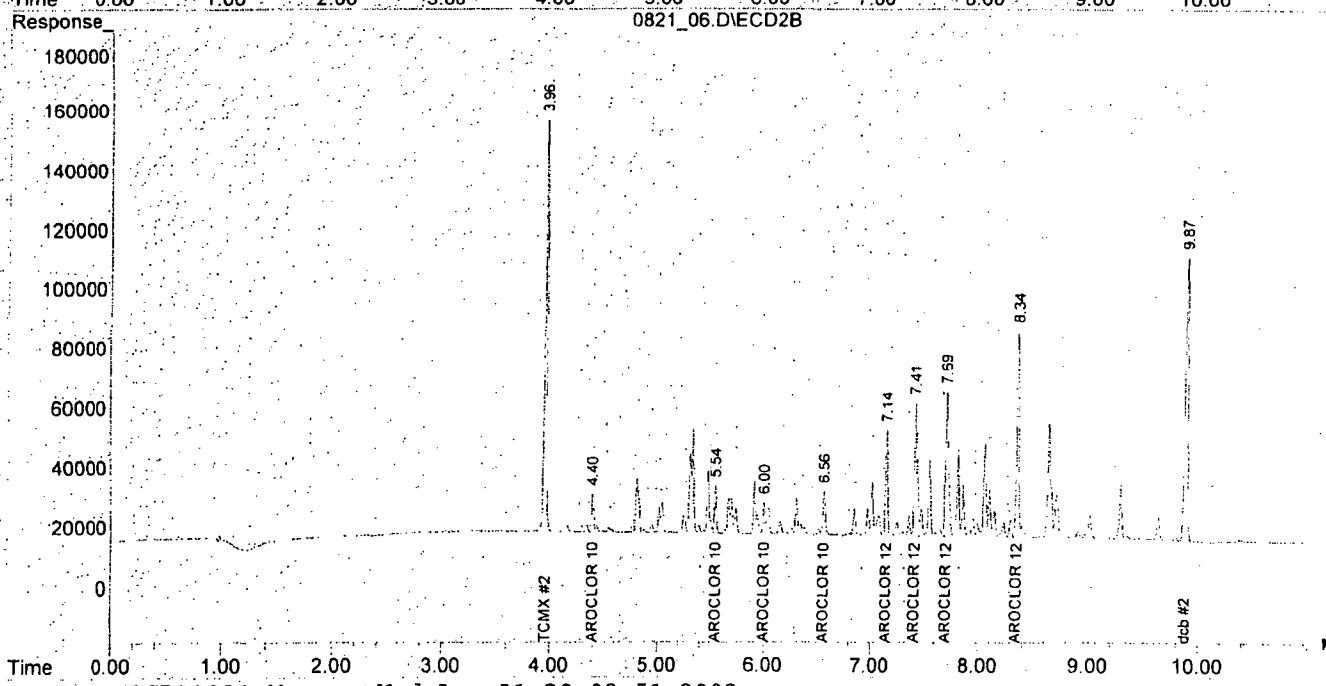
Quantitation Report

Signal #1 : C:\HPCHEM\2\DATA\082102\0821_06.D\ECD1A.CH Vial: 6
Signal #2 : C:\HPCHEM\2\DATA\082102\0821_06.D\ECD2B.CH
Acq On : 21 Aug 2002 4:15 pm Operator: 308
Sample : 1016/1260 .75ppm Inst : SVGC4
Misc : BS030104K30 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Aug 21 16:43 2002 Quant Results File: PCB20821.RES

Quant Method : C:\HPCHEM\2\METHODS\PCB20821.M (Chemstation Integrator)
Title :
Last Update : Wed Aug 21 16:25:43 2002
Response via : Multiple Level Calibration
DataAcq Meth : PCB20819.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\2\DATA\082102\0821_07.D\ECD1A.CH Vial: 7
Signal #2 : C:\HPCHEM\2\DATA\082102\0821_07.D\ECD2B.CH
Acq On : 21 Aug 2002 4:30 pm Operator: 308
Sample : 1016/1260 1.0ppm Inst : SVGC4
Misc : BS030104K30 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Aug 21 16:44 2002 Quant Results File: PCB20821.RES

Quant Method : C:\HPCHEM\2\METHODS\PCB20821.M (Chemstation Integrator)
Title :
Last Update : Wed Aug 21 16:43:58 2002
Response via : Initial Calibration
DataAcq Meth : PCB20819.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

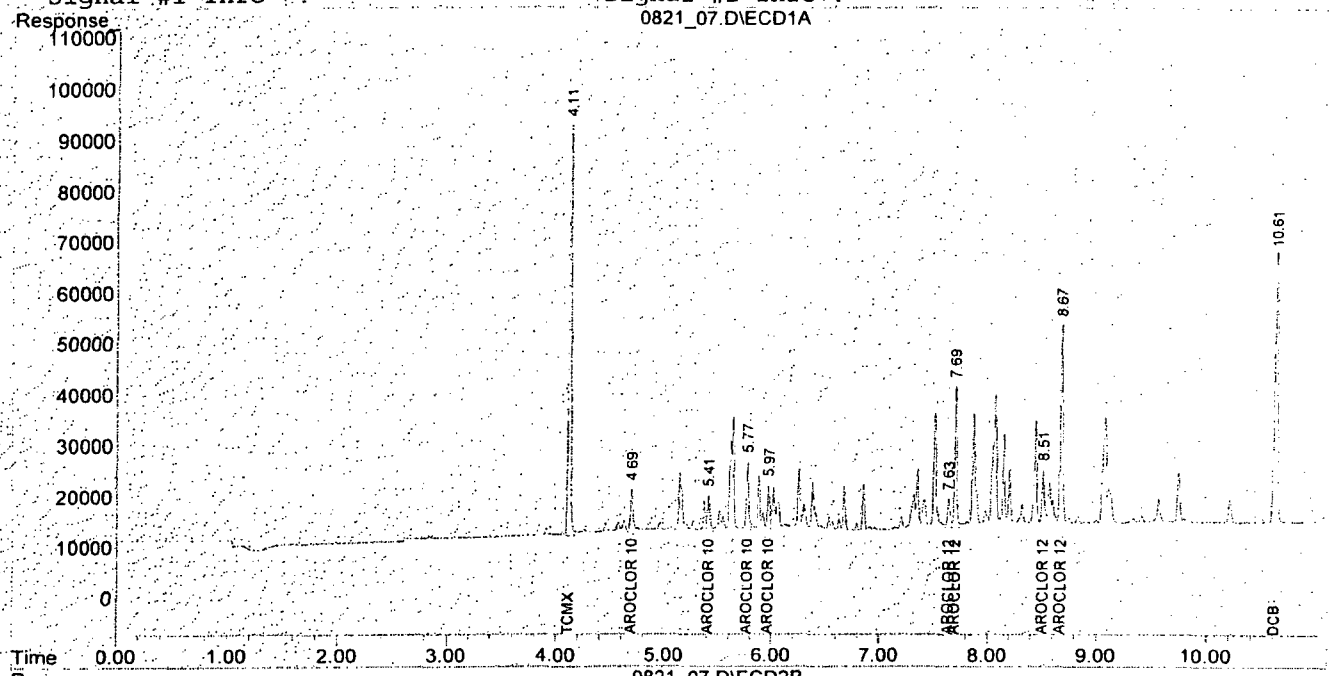
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) s TCMX	4.11	1129936	0.192 µg/mLm
Spiked Amount 0.200	Range 41 - 145	Recovery =	96.00%
10) s DCB	10.61	1104992	0.193 µg/mL
Spiked Amount 0.200	Range 39 - 137	Recovery =	96.50%
12) s TCMX #2	3.96	2633069	0.220 µg/mL
Spiked Amount 0.200	Range 41 - 145	Recovery =	110.00%
21) s dcb #2	9.87	2443739	0.221 µg/mL
Spiked Amount 0.200	Range 39 - 137	Recovery =	110.50%
Target Compounds			
2) m,t AROCLOR 1016(1)	4.69	154017	1.281 µg/mL
3) m,t AROCLOR 1016(2)	5.41	110810	1.186 µg/mLm
4) m,t AROCLOR 1016(3)	5.77	215935	1.025 µg/mLm
5) m,t AROCLOR 1016(4)	5.97	117168	1.073 µg/mLm
6) m,t AROCLOR 1260(1)	7.63	101408	1.133 µg/mL
7) m,t AROCLOR 1260(2)	7.69	402251	1.076 µg/mL
8) m,t AROCLOR 1260(3)	8.51	169013	0.953 µg/mL
9) m,t AROCLOR 1260(4)	8.67	580317	0.704 µg/mL
13) m,t AROCLOR 1016(1) #2	4.40	228990	1.197 µg/mL
14) m,t AROCLOR 1016(2) #2	5.54	297537	1.139 µg/mL
15) m,t AROCLOR 1016(3) #2	6.00	187277	1.182 µg/mL
16) m,t AROCLOR 1016(4) #2	6.56	294835	1.197 µg/mL
17) m,t AROCLOR 1260(1) #2	7.14	648550	1.582 µg/mL
18) m,t AROCLOR 1260(2) #2	7.41	1044548	1.126 µg/mL
19) m,t AROCLOR 1260(3) #2	7.70	1190119	1.089 µg/mL
20) m,t AROCLOR 1260(4) #2	8.34	1313294	1.113 µg/mL

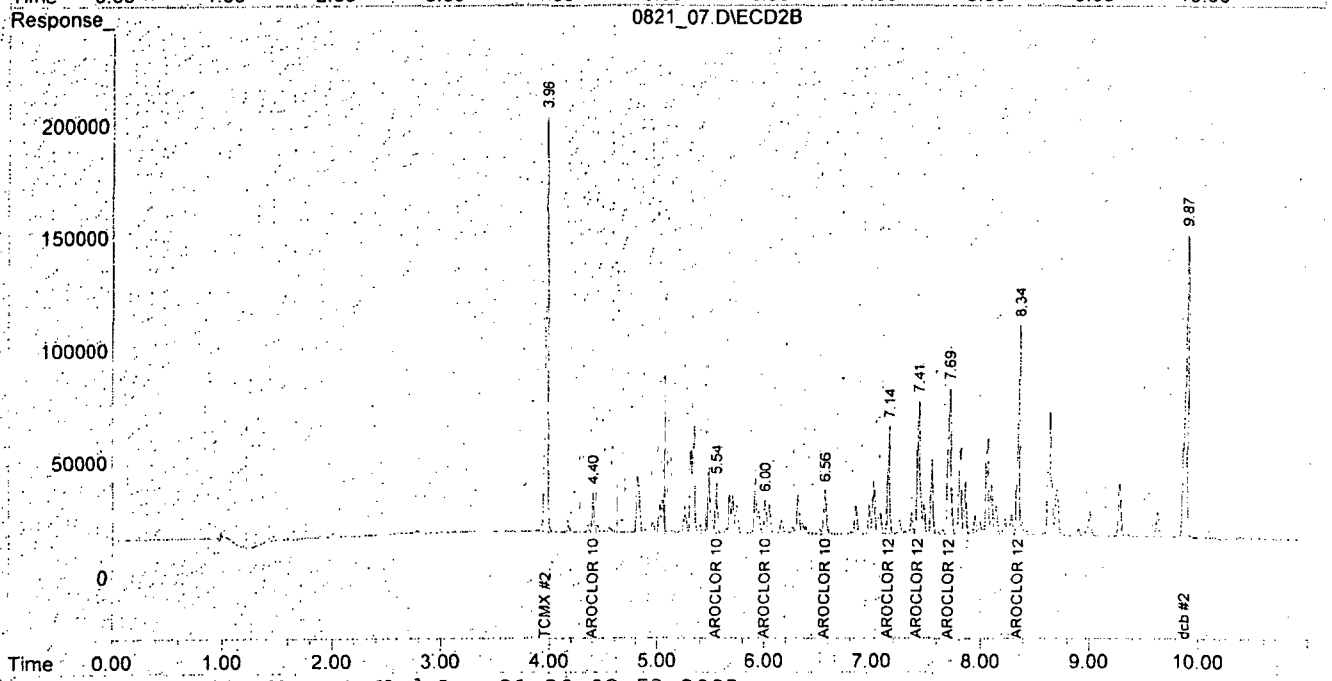
Quantitation Report

Signal #1 : C:\HPCHEM\2\DATA\082102\0821_07.D\ECD1A.CH Vial: 7
Signal #2 : C:\HPCHEM\2\DATA\082102\0821_07.D\ECD2B.CH
Acq On : 21 Aug 2002 4:30 pm Operator: 308
Sample : 1016/1260 1.0ppm Inst : SVGC4
Misc : BS030104K30 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Aug 21 16:44 2002 Quant Results File: PCB20821.RES

Quant Method : C:\HPCHEM\2\METHODS\PCB20821.M (Chemstation Integrator)
Title :
Last Update : Wed Aug 21 16:43:58 2002
Response via : Multiple Level Calibration
DataAcq Meth : PCB20819.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Response Factor Report SVGC4

Method : C:\HPCHEM\2\METHODS\1254L.M (Chemstation Integrator)
Title :
Last Update : Wed Aug 21 19:40:56 2002

8/21/02
KK

~ 8/21/02

Calibration Files

1	=0821_02.D	2	=0821_03.D	3	=0821_04.D
4	=0821_05.D	5	=0821_06.D	6	=0821_08.D

	Compound	1	2	3	4	5	6	Avg		%RSD
1) s	TCMX	5.014	6.146	5.732	5.162	5.489	5.650	5.532	E6	7.40
2) m,t	AROCLOR 1254(1)						1.214	1.214	E5	0.00
3) m,t	AROCLOR 1254(2)						2.233	2.233	E5	0.00
4) m,t	AROCLOR 1254(3)						2.512	2.512	E5	0.00
5) m,t	AROCLOR 1254(4)						4.839	4.839	E5	0.00
6) s	DCB	4.671	5.684	5.446	4.945	5.518	5.525	5.298	E6	7.49

Signal #2 Calibration Files

1	=0821_02.D	2	=0821_03.D	3	=0821_04.D
4	=0821_05.D	5	=0821_06.D	6	=0821_08.D

	Compound	1	2	3	4	5	6	Avg		%RSD
1) s	TCMX	1.181	1.391	1.313	1.167	1.319	1.317	1.281	E7	6.87
2) m,t	AROCLOR 1254(1)						1.721	1.721	E5	0.00
3) m,t	AROCLOR 1254(2)						4.312	4.312	E5	0.00
4) m,t	AROCLOR 1254(3)						7.600	7.600	E5	0.00
5) m,t	AROCLOR 1254(4)						8.430	8.430	E5	0.00
6) s	dcb	1.124	1.247	1.110	1.119	1.143	1.222	1.161	E7	5.05

TCMX + DCB from ~~PE~~ PCB20821 KK

Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\2\DATA\082102\0821_08.D\ECD1A.CH Vial: 16
Signal #2 : C:\HPCHEM\2\DATA\082102\0821_08.D\ECD2B.CH
Acq On : 21 Aug 2002 4:44 pm Operator: 308
Sample : 1254 1ppm Inst : SVGC4
Misc : BS030104K30 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Aug 21 19:40 2002 Quant Results File: 1254L.RES

Quant Method : C:\HPCHEM\2\METHODS\1254L.M (Chemstation Integrator)
Title :
Last Update : Wed Aug 21 19:40:35 2002
Response via : Initial Calibration
DataAcq Meth : PCB20819.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) s TCMX	0.00	0	N.D. µg/mL
Spiked Amount 0.200	Range 41 - 145	Recovery =	0.00%#
6) s DCB	0.00	0	N.D. µg/mL
Spiked Amount 0.200	Range 39 - 137	Recovery =	0.00%#
8) s TCMX #2	0.00	0	N.D. µg/mL
Spiked Amount 0.200	Range 41 - 145	Recovery =	0.00%#
13) s dcb #2	0.00	0	N.D. µg/mL
Spiked Amount 0.200	Range 39 - 137	Recovery =	0.00%#
Target Compounds			
2) m,t AROCLOR 1254(1)	5.97	121398	1.048 µg/mL
3) m,t AROCLOR 1254(2)	6.67	223342	1.070 µg/mL
4) m,t AROCLOR 1254(3)	6.85	251154	1.034 µg/mL
5) m,t AROCLOR 1254(4)	7.31	483851	1.247 µg/mL
9) m,t AROCLOR 1254(1) #2	5.91	172095	1.056 µg/mL
10) m,t AROCLOR 1254(2) #2	6.30	431231	1.154 µg/mL
11) m,t AROCLOR 1254(3) #2	6.56	759964	1.210 µg/mL
12) m,t AROCLOR 1254(4) #2	6.97	842950	1.086 µg/mL

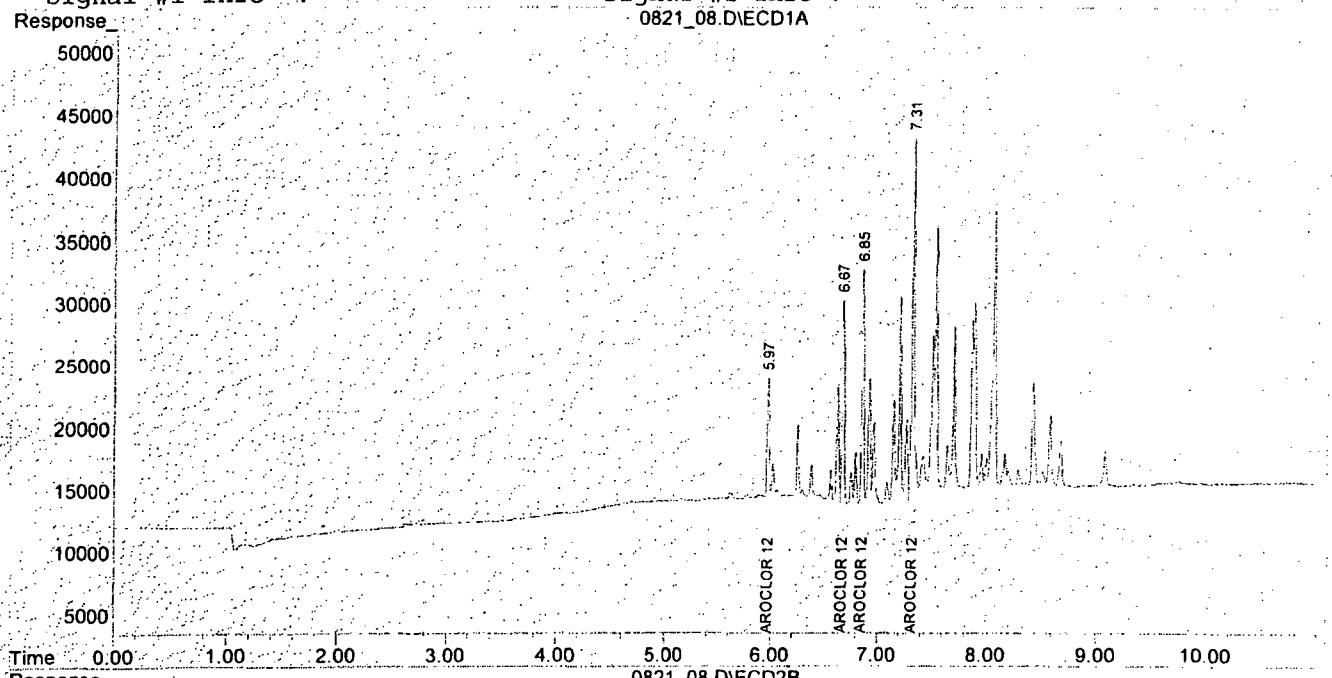
(f)=RT Delta > 1/2 Window (m)=manual int.

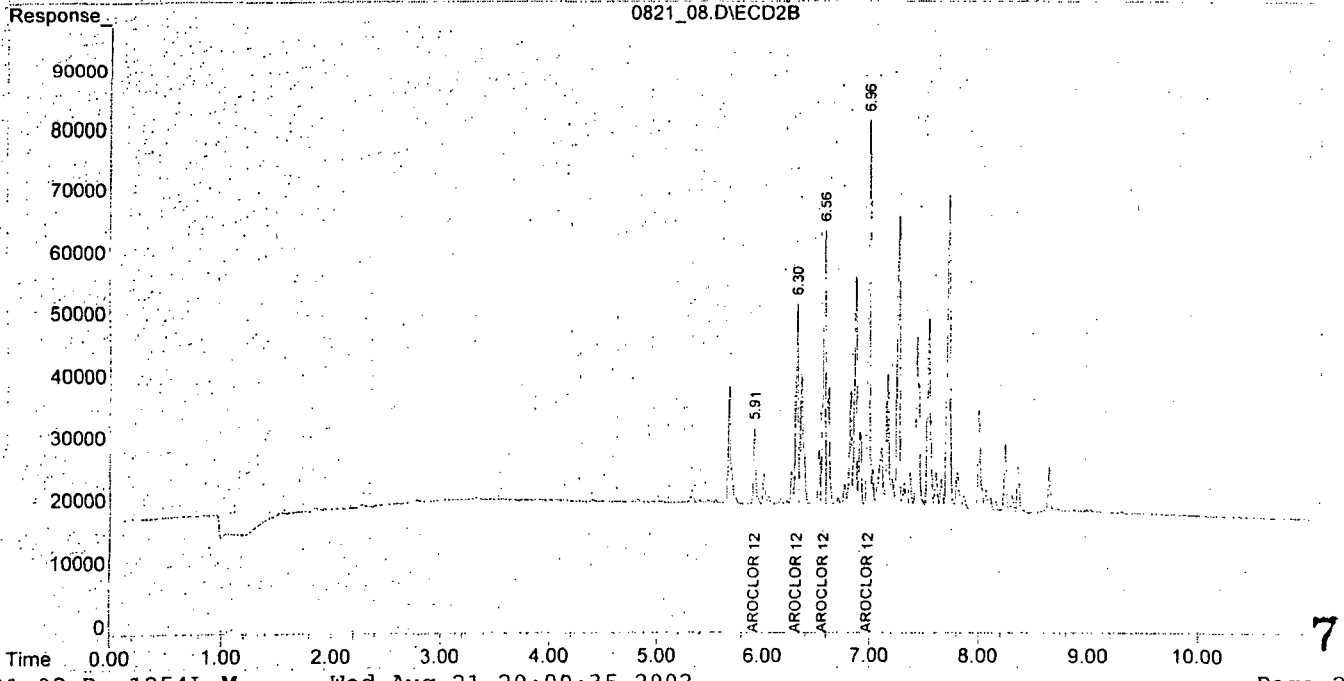
Quantitation Report

Signal #1 : C:\HPCHEM\2\DATA\082102\0821_08.D\ECD1A.CH Vial: 16
Signal #2 : C:\HPCHEM\2\DATA\082102\0821_08.D\ECD2B.CH
Acq On : 21 Aug 2002 4:44 pm Operator: 308
Sample : 1254 1ppm Inst : SVGC4
Misc : BS030104K30 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Aug 21 19:40 2002 Quant Results File: 1254L.RES

Quant Method : C:\HPCHEM\2\METHODS\1254L.M (Chemstation Integrator)
Title :
Last Update : Wed Aug 21 19:40:35 2002
Response via : Multiple Level Calibration
DataAcq Meth : PCB20819.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Calibration Standards

Total Solids

Date : 8/22/02
Time : 7:09 AM

Environmental Science Corporation
LABORATORY BENCH SHEET

Date Created : 8/21/02 3:07:16 PM
By Analyst : 036 M.T.
EPA Method : 2540G

Test Abbrev : **TS**
Test Name : Total Solids (2540G)
Date Analyzed : 8/21/02 2:33:55 PM

WORKGROUP : **WG81243**

ACCTNUM	SAMPLE #		Vessel No.	B Dish Weight	C Weight Wet Sample	A1 Final Weight (g)	A2 Final Weight (g)	(A1-B)*100 / C-B	100 - % TS = % Moist	QC Value (For QC Samples)
HALLKY	L86595-01	SS	49	1.2389	14.9765	12.2942	12.2942	80.474755 %	19.525244 %	0 %
COMMON	L86932-01	SS	50	1.2391	12.1822	10.2524	10.2524	82.365143 %	17.634856 %	0 %
COMMON	L86932-02	SS	51	1.2325	11.987	10.8192	10.8192	89.141289 %	10.858710 %	0 %
COMMON	L86932-03	SS	52	1.2317	12.8016	11.743	11.743	90.850396 %	9.1496037 %	0 %
COMMON	L86932-04	SS	53	1.2421	13.2519	12.1504	12.1504	90.828323 %	9.1716765 %	0 %
COMMON	L86932-05	SS	54	1.2395	12.3467	11.2568	11.2568	90.187446 %	9.812554 %	0 %
COMMON	L86932-06	SS	55	1.2348	11.3158	9.1755	9.1755	78.768971 %	21.231028 %	0 %
COMMON	L86932-07	SS	56	1.2451	13.0028	11.3836	11.3836	86.228599 %	13.771400 %	0 %
COMMON	L86932-08	SS	57	1.2446	12.743	10.7336	10.7336	82.524525 %	17.475474 %	0 %
COMMON	L86932-09	SS	58	1.2459	12.6948	10.6071	10.6071	81.765060 %	18.234939 %	0 %
	L86932-09D	SS	59	1.2445	12.7097	10.6491	10.6491	82.027352 %	17.972647 %	0.3203 %
COMMON	L86932-10	SS	60	1.2438	13.082	11.1397	11.1397	83.592944 %	16.407055 %	0 %
COMMON	L86932-11	SS	61	1.2318	13.2303	10.7095	10.7094	78.990707 %	21.009292 %	0 %
WILGASKS	L86934-01	SS	62	1.249	13.9838	9.0809	9.0809	61.499984 %	38.500015 %	0 %

LCS TV : 50
LCS LOT # : BW062701C009 Quality Control : Reviewed By _____ Date 08/22

Date : 8/22/02
Time : 7:09 AM

Environmental Science Corporation
LABORATORY BENCH SHEET

Date Created : 8/21/02 3:07:16 PM
By Analyst : 036
EPA Method : 2540G

Test Abbrev : **TS**
Test Name : Total Solids (2540G)
Date Analyzed : 8/21/02 2:33:55 PM

WORKGROUP : **WG81243**

ACCTNUM	SAMPLE #		Vessel No.	B Dish Weight	C Weight Wet Sample	A1 Final Weight (g)	A2 Final Weight (g)	(A1-B)*100 / C-B	100 - % TS = % Moist	QC Value (For QC Samples)
ATLCOAST	L86971-01	SS	63	1.2471	14.3844	10.5162	10.5162	70.555593 %	29.444406 %	0 %
	Blank		64	1.2466	1.2466	1.2459	1.2459	0 %	0 %	0 %
	LCS		65	1.2467	11.2571	6.2463	6.2463	49.944058 %	50.055941 %	99.8881 %
	L86934-01D	SS	66	1.2488	13.8164	9.0453	9.0453	62.036506 %	37.963493 %	0.8686 %

LCS TV : 50
LCS LOT # : BW062701C009 Quality Control : Reviewed By _____ Date _____

Williams Gas Pipeline Central

13424 West 98th Street
Shawnee Mission,KS 66215

Alternate billing information:

Chain of Custody
Page ___ of ___

Prepared by: Q701494

ENVIRONMENTAL SCIENCE CORP.
12065 Lebanon Road
Mt. Juliet, TN 37122
Phone (800) 767-5859
FAX (615) 758-5859

Report to: Mr. Mark Sullivan
Email: cfortey@atkinsbenham.com,

Project Description: Williams Buffalo PCB Project
City/State Collected: Harper County, Oklahoma

Phone: (913) 310-7625
FAX: (913) 310-7630
Client Project #: 2203401
Lab Project #: WILGASKS-ATKINS

Collected by (print): Bruce McKenzie
Site/Facility ID#: BUFFALO
P.O.#:

Collected by (signature): Bruce McKenzie
Packed on Ice N Y

Rush? (Lab MUST Be Notified)
___Same Day 200%
✓ Next Day.....100%
___ Two Day 50%

Date Results Needed: 8-22-02
Email? __No X Yes
FAX? No Yes

CoCode: WILGASKS (lab use only)
Template/Prelogin: T15458/P61944
Cooler #:
Shipped Via: FedEX Standard

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	8082 MIRE 4ozClr-NoPres	SV8082 PCB's 1L-Amb NoPres	SV8082 PCB's 4ozClr-NoPres	Total Solids 4ozClr-NoPres	Temperature °C		Remarks/Contaminant	Sample # (lab only)
		GW				1		X						L86434
BUFDL-01	Comp	SS	–	8/20/02	0845	2			X	X				-01
BUFDL-02	Grab	SS	–	8/20/02	0915	1	X							-02
BUFEQ-02	Grab	SS	–	8/20/02	0925	1	X							-03
TEMPERATURE Blank	–	GW	–	–	–	1					X			

*Matrix: SS - Soil GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other_____

pH _____ Temp _____
Flow _____ Other _____

Remarks: THIS IS A QC4 DATA PACKAGE PROJECT / SOILS ARE TO REPORT IN DRY WEIGHT.

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Samples returned via: ☐ UPS ☒ FedEx ☐ Courier ☐	Condition: (lab use only)
Bruce McKenzie	8/20/02	1510			COC seal intact
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: 4° Bottles Received: 4	ok
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 8/21/02 Time: 9:30	pH Checked: NCF:

Environmental Science Corporation

Mount Juliet, TN

For: Williams Gas Pipeline
Buffalo PCB Project

Project #: 2203401

Login: L87096

Client Sample ID	Lab Sample ID.
BUFEQ-03	L87096-01
BUFAR-01	L87096-02
BUFDL-03	L87096-03
BUFAR-02	L87096-04
BUFAR-03	L87096-05

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1-800-767-5859
Fax (615) 758-5859

EST. 1970

Environmental Science Corporation
Mount Juliet, TN

For: William Gas Pipeline Central
Project: Buffalo
Project # 2203401
QAD1497

SDG:L 87096

September 10, 2002

Sample Receiving and handling

All samples were received at the correct temperature, in the proper containers, and with the appropriate preservatives. All method holding times were met.

METHOD – Polychlorinated Biphenyls by Method 8082

Laboratory Control Standard (LCS)

Sample L87096-01 was analyzed in analytic batch WG81327. The laboratory control standard recovery associated with this sample was within laboratory control limits.

Samples L87096-02 through L87096-05 were analyzed in analytic batch WG81367. The laboratory control standard recovery associated with these samples was within laboratory control limits.

Matrix Spike and Matrix Spike Duplicate (MS/MSD)

For analytic batch WG81327, matrix spike and matrix spike duplicate analysis was performed on the laboratory control sample. The spike recoveries and the relative percent difference were within laboratory control limits.

For analytic batch WG81367, matrix spike and matrix spike duplicate analysis was performed on client sample L87096-02. The high concentration of Arochlor 1254 in the sample interfered with the ability to accurately recover Arochlor 1260.

For analytic batch WG81367, matrix spike and matrix spike duplicate analysis was also performed on the laboratory control sample. The spike recoveries and the relative percent difference were within laboratory control limits.

Blank Analysis
The method blanks and all continuing calibration blanks were below the method quantitation limit for all Arochlors.

Environmental Science Corporation
Mount Juliet, TN

For: William Gas Pipeline Central
Project: Buffalo
Project # 2203401
QAD1497

SDG: L87076

Calibration

The SVGC#5 was initially calibrated on 8/22/02 for dual column analysis. The calibration verification standards were within method limits.

Surrogates

The surrogate recoveries were within laboratory control limits for all samples and quality control samples.

Susan Murphy

Susan Murphy

Quality Control Specialist
Environmental Science Corp.

ENVIRONMENTAL SCIENCE CORP.

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Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. Mark Sullivan
Williams Gas Pipeline Central
13424 West 98th Street
Shawnee Mission, KS 66215

August 23,2002

ESC Sample # : L87096-01

Date Received : August 22, 2002
Description : Williams Buffalo PCB Project

Site ID : BUFFALO

Sample ID : BUFEQ-03

Project # : 2203401

Collected By : Bruce McKenzie
Collection Date : 08/21/02 09:25

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Polychlorinated Biphenyls						
PCB 1016	BDL	0.00050	mg/l	8082	08/20/02	1
PCB 1221	BDL	0.00050	mg/l	8082	08/20/02	1
PCB 1232	BDL	0.00050	mg/l	8082	08/20/02	1
PCB 1242	BDL	0.00050	mg/l	8082	08/20/02	1
PCB 1248	BDL	0.00050	mg/l	8082	08/20/02	1
PCB 1254	BDL	0.00050	mg/l	8082	08/20/02	1
PCB 1260	BDL	0.00050	mg/l	8082	08/20/02	1
PCBs Surrogates						
Decachlorobiphenyl	84.		% Rec.	8082	08/20/02	1
Tetrachloro-m-xylene	71.		% Rec.	8082	08/20/02	1

Tom Mellette, ESC Representative

BDL - Below Detection Limit
Det. Limit - Estimated Quantitation Limit(EQL)

Laboratory Certification Numbers:
A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - 1-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
KY - 90010, KYUST - 0016, NC - ENV375,DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233

Note:
The reported analytical results relate only to the sample submitted.
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REPORT OF ANALYSIS

Mr. Mark Sullivan
Williams Gas Pipeline Central
13424 West 98th Street
Shawnee Mission, KS 66215

August 23, 2002

ESC Sample # : L87096-02

Date Received : August 22, 2002
Description : Williams Buffalo PCB Project

Site ID : BUFFALO

Sample ID : BUFAR-01

Project # : 2203401

Collected By : Bruce McKenzie
Collection Date : 08/21/02 09:25

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	94.2		%	2540G	08/23/02	1
Polychlorinated Biphenyls						
PCB 1016	BDL	0.53	mg/kg	8082	08/22/02	10
PCB 1221	BDL	0.53	mg/kg	8082	08/22/02	10
PCB 1232	BDL	0.53	mg/kg	8082	08/22/02	10
PCB 1242	BDL	0.53	mg/kg	8082	08/22/02	10
PCB 1248	BDL	0.53	mg/kg	8082	08/22/02	10
PCB 1254	BDL	0.53	mg/kg	8082	08/22/02	10
PCB 1260	BDL	0.53	mg/kg	8082	08/22/02	10
PCBs Surrogates						
Decachlorobiphenyl	100		% Rec.	8082	08/22/02	10
Tetrachloro-m-xylene	99.0		% Rec.	8082	08/22/02	10

Tom Mellette, ESC Representative

Results listed are dry weight basis.
BDL - Below Detection Limit
Det. Limit - Estimated Quantitation Limit(EQL)

Laboratory Certification Numbers:
A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
KY - 90010, KYUST - 0016, NC - ENV375,DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233

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REPORT OF ANALYSIS

Mr. Mark Sullivan
Williams Gas Pipeline Central
13424 West 98th Street
Shawnee Mission, KS 66215

August 23,2002

ESC Sample # : L87096-03

Site ID : BUFFALO

Project # : 2203401

Date Received : August 22, 2002
Description : Williams Buffalo PCB Project

Sample ID : BUFDL-03

Collected By : Bruce McKenzie
Collection Date : 08/21/02 09:25

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Polychlorinated Biphenyls						
PCB 1016	BDL	10.	ug/wipe	8082	08/22/02	20
PCB 1221	BDL	10.	ug/wipe	8082	08/22/02	20
PCB 1232	BDL	10.	ug/wipe	8082	08/22/02	20
PCB 1242	BDL	10.	ug/wipe	8082	08/22/02	20
PCB 1248	BDL	10.	ug/wipe	8082	08/22/02	20
PCB 1254	BDL	10.	ug/wipe	8082	08/22/02	20
PCB 1260	BDL	10.	ug/wipe	8082	08/22/02	20

Tom Mellette, ESC Representative

BDL - Below Detection Limit
Det. Limit - Estimated Quantitation Limit(EQL)

Laboratory Certification Numbers:
A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
KY - 90010, KYUST - 0016, NC - ENV375,DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233

Note:
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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. Mark Sullivan
Williams Gas Pipeline Central
13424 West 98th Street
Shawnee Mission, KS 66215

August 23,2002

ESC Sample # : L87096-04

Date Received : August 22, 2002
Description : Williams Buffalo PCB Project

Site ID : BUFFALO

Sample ID : BUFAR-02

Project # : 2203401

Collected By : Bruce McKenzie
Collection Date : 08/21/02 09:25

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	95.6		%	2540G	08/23/02	1
Polychlorinated Biphenyls						
PCB 1016	BDL	0.52	mg/kg	8082	08/22/02	10
PCB 1221	BDL	0.52	mg/kg	8082	08/22/02	10
PCB 1232	BDL	0.52	mg/kg	8082	08/22/02	10
PCB 1242	BDL	0.52	mg/kg	8082	08/22/02	10
PCB 1248	BDL	0.52	mg/kg	8082	08/22/02	10
PCB 1254	BDL	0.52	mg/kg	8082	08/22/02	10
PCB 1260	BDL	0.52	mg/kg	8082	08/22/02	10
PCBs Surrogates						
Decachlorobiphenyl	99.0		% Rec.	8082	08/22/02	10
Tetrachloro-m-xylene	99.0		% Rec.	8082	08/22/02	10

Tom Mellette, ESC Representative

Results listed are dry weight basis.
BDL - Below Detection Limit
Det. Limit - Estimated Quantitation Limit(EQL)

Laboratory Certification Numbers:
A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - 1-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
KY - 90010, KYUST - 0016, NC - ENV375,DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233

Note:
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The reported analytical results relate only to the sample submitted

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Est. 1970

REPORT OF ANALYSIS

Mr. Mark Sullivan
Williams Gas Pipeline Central
13424 West 98th Street
Shawnee Mission, KS 66215

August 23,2002

ESC Sample # : L87096-05

Site ID : BUFFALO

Project # : 2203401

Date Received : August 22, 2002
Description : Williams Buffalo PCB Project

Sample ID : BUFAR-03

Collected By : Bruce McKenzie
Collection Date : 08/21/02 09:25

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	94.8		%	2540G	08/23/02	1
Polychlorinated Biphenyls						
PCB 1016	BDL	0.53	mg/kg	8082	08/22/02	10
PCB 1221	BDL	0.53	mg/kg	8082	08/22/02	10
PCB 1232	BDL	0.53	mg/kg	8082	08/22/02	10
PCB 1242	BDL	0.53	mg/kg	8082	08/22/02	10
PCB 1248	BDL	0.53	mg/kg	8082	08/22/02	10
PCB 1254	BDL	0.53	mg/kg	8082	08/22/02	10
PCB 1260	BDL	0.53	mg/kg	8082	08/22/02	10
PCBs Surrogates						
Decachlorobiphenyl	102.		% Rec.	8082	08/22/02	10
Tetrachloro-m-xylene	91.0		% Rec.	8082	08/22/02	10

Tom Mellette, ESC Representative

Results listed are dry weight basis.
BDL - Below Detection Limit
Det. Limit - Estimated Quantitation Limit(EQL)

Laboratory Certification Numbers:
A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
KY - 90010, KYUST - 0016, NC - ENV375,DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233

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Attachment A
List of Analytes with QC Qualifiers

Sample #	Analyte	Qualifier
L87096-02	PCB 1016	J3J50
	PCB 1221	J3J50
	PCB 1232	J3J50
	PCB 1242	J3J50
	PCB 1248	J3J50
	PCB 1254	J3J50
	PCB 1260	J3J50
	Decachlorobiphenyl	0
	Tetrachloro-m-xylene	0
L87096-03	PCB 1016	0
	PCB 1221	0
	PCB 1232	0
	PCB 1242	0
	PCB 1248	0
	PCB 1254	0
	PCB 1260	0
L87096-04	PCB 1016	0
	PCB 1221	0
	PCB 1232	0
	PCB 1242	0
	PCB 1248	0
	PCB 1254	0
	PCB 1260	0
	Decachlorobiphenyl	0
	Tetrachloro-m-xylene	0
L87096-05	PCB 1016	0
	PCB 1221	0
	PCB 1232	0
	PCB 1242	0
	PCB 1248	0
	PCB 1254	0
	PCB 1260	0
	Decachlorobiphenyl	0
	Tetrachloro-m-xylene	0

Attachment B
Explanation of QC Qualifier Codes

Qualifier	Meaning
0	(ESC) Sample diluted due to matrix interferences that impaired the ability to make an accurate analytical determination. The detection limit is elevated in order to reflect the necessary dilution.
J5	The sample matrix interfered with the ability to make any accurate determination; spike value is unacceptably high
J3	The associated batch QC did not successfully meet the established quality control criteria for precision.

Qualifier Report Information

ESC utilizes sample and result qualifiers as set forth by the EPA Contract Laboratory Program and as required by most certifying bodies including NELAC. In addition to the EPA qualifiers adopted by ESC, we have implemented ESC qualifiers to provide more information pertaining to our analytical results. Each qualifier is designated in the qualifier explanation as either EPA or ESC. Data qualifiers are intended to provide the ESC client with more detailed information concerning the potential bias of reported data. Because of the wide range of constituents and variety of matrices incorporated by most EPA methods, it is common for some compounds to fall outside of established ranges. These exceptions are evaluated and all reported data is valid and useable unless qualified as 'R' (Rejected).

Definitions

Accuracy - The relationship of the observed value of a known sample to the true value of a known sample. Represented by percent recovery and relevant to samples such as: control samples, matrix spike recoveries, surrogate recoveries, etc.

Precision - The agreement between a set of samples or between duplicate samples. Relates to how close together the results are and is represented by Relative Percent Differrence.

Surrogate - Organic compounds that are similar in chemical composition, extraction, and chromotography to analytes of interest. The surrogates are used to determine the probable response of the group of analytes that are chemically related to the surrogate compound. Surrogates are added to the sample and carried through all stages of preparation and analyses.

TIC - Tentatively Identified Compound: Compounds detected in samples that are not target compounds, internal standards, system monitoring compounds, or surrogates.

Summary of Remarks For Samples Printed
08/23/02 at 16:32:53

TSR Signing Reports: 690

Sample: L87096-01 Account: WILGASKS Received: 08/22/02 09:45 Due Date: 08/23/02 00:00
QC4 Project
Sample: L87096-02 Account: WILGASKS Received: 08/22/02 09:45 Due Date: 08/23/02 00:00
QC4 Project
Sample: L87096-03 Account: WILGASKS Received: 08/22/02 09:45 Due Date: 08/23/02 00:00
QC4 Project
Sample: L87096-04 Account: WILGASKS Received: 08/22/02 09:45 Due Date: 08/23/02 00:00
QC4 Project
Sample: L87096-05 Account: WILGASKS Received: 08/22/02 09:45 Due Date: 08/23/02 00:00
QC4 Project

Polychlorinated Biphenyls
by
Method 8082

U.S. EPA - CLP

COVER PAGE - PESTICIDES/PCB ANALYSES DATA PACKAGE

Lab Name: Environmental Science Corporation Contract: Willams Gas & Pipeline

Lab Code: TN00003 Case No.: QAD1494 7 SAS No.: SDG No.: L87096

Matrix: Soil Analytic Batch: WG81327

EPA Sample No.	Lab Sample ID.
BUFEQ-03	L87096-01
BUFAR-01	L87096-02
BUFDL-03	L87096-03
BUFAR-02	L87096-04
BUFAR-03	L87096-05

Comments:

I certify that this data package accurately represents the information in the raw data found herein, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: William Meek WILLIAM MEEK

Date: 9/16/02 CHEMISTRY MANAGER

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Blank 1x WG81327

Lab Name: Environmental Science Corpor Contract: Willams Gas & Pipeline

Lab Code: TN00003 Case No.: QAD1497 SAS No.: _____ SDG No.: L87096

Matrix: (soil/water) Water Lab Sample ID: Blank 1x WG81327

Sample wt/vol: 1000 (g/mL) mL Lab File ID: 0822_18.D

% Moisture: _____ decanted: (Y/N) _____ Date Received: _____

Extraction: (SepF/Cont/Sonc) SepF Date Extracted: 08/22/02

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 08/22/02

Injection Volume: _____ (uL) Dilution Factor: 1

GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) mg/l	Q
12674-11-2	Aroclor-1016	0.0005	U
11104-28-2	Aroclor-1221	0.0005	U
11141-16-5	Aroclor-1232	0.0005	U
53469-21-9	Aroclor-1242	0.0005	U
12672-29-6	Aroclor-1248	0.0005	U
11097-69-1	Aroclor-1254	0.0005	U
11096-82-5	Aroclor-1260	0.0005	U

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Blank 1x WG81367

Lab Name: Environmental Science Corpor Contract: Willams Gas & Pipeline

Lab Code: TN00003 Case No.: QAD1494 SAS No.: _____ SDG No.: L87096

Matrix: (soil/water) Soil Lab Sample ID: Blank 1x WG81367

Sample wt/vol: 15 (g/mL) g Lab File ID: 0822_08.D

% Moisture: _____ decanted: (Y/N) _____ Date Received: _____

Extraction: (SepF/Cont/Sonc) Micro Date Extracted: 08/17/02

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 08/22/02

Injection Volume: _____ (uL) Dilution Factor: 1

GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) mg/kg	Q
12674-11-2 - - - - -	Aroclor-1016	0.20	U
11104-28-2 - - - - -	Aroclor-1221	0.20	U
11141-16-5 - - - - -	Aroclor-1232	0.40	U
53469-21-9 - - - - -	Aroclor-1242	0.20	U
12672-29-6 - - - - -	Aroclor-1248	0.20	U
11097-69-1 - - - - -	Aroclor-1254	0.20	U
11096-82-5 - - - - -	Aroclor-1260	0.20	U

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

LCS 1x WG81327

Lab Name: Environmental Science Corpor Contract: Willams Gas & Pipeline

Lab Code: TN00003 Case No.: QAD1497 SAS No.: _____ SDG No.: L87096

Matrix: (soil/water) Soil Lab Sample ID: LCS 1x WG81327

Sample wt/vol: 1000 (g/mL) g Lab File ID: 0822_19.D

% Moisture: _____ decanted: (Y/N) _____ Date Received: _____

Extraction: (SepF/Cont/Sonc) SepF Date Extracted: 08/22/02

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 08/22/02

Injection Volume: _____ (uL) Dilution Factor: 1

GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) mg/kg	Q
12674-11-2 - - - - -	Aroclor-1016	0.20	U
11104-28-2 - - - - -	Aroclor-1221	0.20	U
11141-16-5 - - - - -	Aroclor-1232	0.20	U
53469-21-9 - - - - -	Aroclor-1242	0.20	U
12672-29-6 - - - - -	Aroclor-1248	0.20	U
11097-69-1 - - - - -	Aroclor-1254	0.20	U
11096-82-5 - - - - -	Aroclor-1260	0.43	

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

LCSD 1x WG81327

Lab Name: Environmental Science Corpor Contract: Willams Gas & Pipeline

Lab Code: TN00003 Case No.: QAD1497 SAS No.: _____ SDG No.: L87096

Matrix: (soil/water) Soil Lab Sample ID: LCSD 1x WG81327

Sample wt/vol: 1000 (g/mL) g Lab File ID: 0822_20.D

% Moisture: _____ decanted: (Y/N) _____ Date Received: _____

Extraction: (SepF/Cont/Sonc) SepF Date Extracted: 08/22/02

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 08/22/02

Injection Volume: _____ (uL) Dilution Factor: 1

GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) mg/kg	Q
12674-11-2	Aroclor-1016	0.20	U
11104-28-2	Aroclor-1221	0.20	U
11141-16-5	Aroclor-1232	0.20	U
53469-21-9	Aroclor-1242	0.20	U
12672-29-6	Aroclor-1248	0.20	U
11097-69-1	Aroclor-1254	0.20	U
11096-82-5	Aroclor-1260	0.44	

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

LCS 1x WG81367

Lab Name: Environmental Science Corpor Contract: Willams Gas & Pipeline

Lab Code: TN00003 Case No.: QAD1494 SAS No.: _____ SDG No.: L87096

Matrix: (soil/water) Soil Lab Sample ID: LCS 1x WG81367

Sample wt/vol: 15 (g/mL) g Lab File ID: 0822_09.D

% Moisture: _____ decanted: (Y/N) _____ Date Received: _____

Extraction: (SepF/Cont/Sonc) Micro Date Extracted: 08/17/02

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 08/22/02

Injection Volume: _____ (uL) Dilution Factor: 1

GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) mg/kg	Q
12674-11-2 - - - - -	Aroclor-1016	0.20	U
11104-28-2 - - - - -	Aroclor-1221	0.20	U
11141-16-5 - - - - -	Aroclor-1232	0.20	U
53469-21-9 - - - - -	Aroclor-1242	0.20	U
12672-29-6 - - - - -	Aroclor-1248	0.20	U
11097-69-1 - - - - -	Aroclor-1254	0.20	U
11096-82-5 - - - - -	Aroclor-1260	0.46	

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

LCSD 1x WG81367

Lab Name: Environmental Science Corpor Contract: Willams Gas & Pipeline

Lab Code: TN00003 Case No.: QAD1494 SAS No.: _____ SDG No.: L87096

Matrix: (soil/water) Soil Lab Sample ID: LCSD 1x WG81367

Sample wt/vol: 15 (g/mL) g Lab File ID: 0822_10.D

% Moisture: _____ decanted: (Y/N) _____ Date Received: _____

Extraction: (SepF/Cont/Sonc) Micro Date Extracted: 08/17/02

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 08/22/02

Injection Volume: _____ (uL) Dilution Factor: 1

GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) mg/kg	Q
12674-11-2 - - - - -	Aroclor-1016	0.20	U
11104-28-2 - - - - -	Aroclor-1221	0.20	U
11141-16-5 - - - - -	Aroclor-1232	0.20	U
53469-21-9 - - - - -	Aroclor-1242	0.20	U
12672-29-6 - - - - -	Aroclor-1248	0.20	U
11097-69-1 - - - - -	Aroclor-1254	0.20	U
11096-82-5 - - - - -	Aroclor-1260	0.38	

1D

EPA SAMPLE NO.

PESTICIDE ORGANICS ANALYSIS DATA SHEET

MS 1x WG81367

Lab Name: Environmental Science Corpor Contract: Willams Gas & Pipeline

Lab Code: TN00003 Case No.: QAD1494 SAS No.: _____ SDG No.: L87096

Matrix: (soil/water) Soil Lab Sample ID: MS 1x WG81367

Sample wt/vol: 30 (g/mL) g Lab File ID: 0822_24.D

% Moisture: _____ decanted: (Y/N) _____ Date Received: _____

Extraction: (SepF/Cont/Sonc) Sonc Date Extracted: 08/22/02

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 08/22/02

Injection Volume: _____ (uL) Dilution Factor: 10

GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) mg/kg	Q
12674-11-2 - - - - -	Aroclor-1016	0.20	U
11104-28-2 - - - - -	Aroclor-1221	0.20	U
11141-16-5 - - - - -	Aroclor-1232	0.20	U
53469-21-9 - - - - -	Aroclor-1242	0.20	U
12672-29-6 - - - - -	Aroclor-1248	0.20	U
11097-69-1 - - - - -	Aroclor-1254	0.20	U
11096-82-5 - - - - -	Aroclor-1260	0.11	

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MSD 1x WG81367

Lab Name: Environmental Science Corpor Contract: Willams Gas & Pipeline

Lab Code: TN00003 Case No.: QAD1494 SAS No.: _____ SDG No.: L87096

Matrix: (soil/water) Soil Lab Sample ID: MSD 1x WG81367

Sample wt/vol: 15 (g/mL) g Lab File ID: 0822 25.D

% Moisture: _____ decanted: (Y/N) _____ Date Received: _____

Extraction: (SepF/Cont/Sonc) Micro Date Extracted: 08/17/02

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 08/22/02

Injection Volume: _____ (uL) Dilution Factor: 10

GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) mg/kg	Q
12674-11-2 - - - - -	Aroclor-1016	0.20	U
11104-28-2 - - - - -	Aroclor-1221	0.20	U
11141-16-5 - - - - -	Aroclor-1232	0.20	U
53469-21-9 - - - - -	Aroclor-1242	0.20	U
12672-29-6 - - - - -	Aroclor-1248	0.20	U
11097-69-1 - - - - -	Aroclor-1254	0.20	U
11096-82-5 - - - - -	Aroclor-1260	2.75	

2F

WATER PESTICIDE SURROGATE RECOVERY

Lab Name: Environmental Science Corporation Contract: Willams Gas & Pipeline

Lab Code: TN00003 Case No.: QAD1497 SAS No.: _____ SDG No.: L87096

GC Column(1): RTX-CLP Pest 1 GC Column(2): RTX-CLP Pest 2

	Lab SAMPLE NO.	TCX 1 %REC	#	TCX 2 %REC	#	DCB 1 %REC	#	DCB 2 %REC	#	OTHER (2)	TOT OUT
01	Blank 1x WG81327	78%		67%		57%		46%			0
02	LCS 1x WG81327	81%		68%		63%		49%			0
03	LCSD 1x WG81327	79%		67%		64%		51%			0
04	MS 1x WG81367	72%		63%		83%		73%			0
05	MSD 1x WG81367	79%		69%		91%		75%			0
06	L87096-01 1x	71%		60%		84%		60%			0
07											
08											
09											
10											
11											
12											
13											
14											
15											
16											
17											
18											
19											
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21											
22											
23											
24											
25											
26											
27											
28											
29											
30											

ADVISORY
QC LIMITS

TCX = Tetrachloro-m-xylene (41-145)

DCB = Decachlorobiphenyl (39-137)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D Surrogate diluted out

2F

SOIL PESTICIDE SURROGATE RECOVERY

Lab Name: Environmental Science Corporation Contract: Willams Gas & Pipeline

Lab Code: TN00003 Case No.: QAD1494 SAS No.: _____ SDG No.: L87096

GC Column(1): RTX-CLP Pest 1 GC Column(2): RTX-CLP Pest 2

	Lab SAMPLE NO.	TCX 1 %REC	#	TCX 2 %REC	#	DCB 1 %REC	#	DCB 2 %REC	#	OTHER (2)	TOT OUT
01	Blank 1x WG81367	68%		71%		85%		75%			0
02	LCS 1x WG81367	69%		72%		86%		76%			0
03	LCSD 1x WG81367	70%		72%		87%		79%			0
04	MS 1x WG81367	72%		63%		83%		73%			0
05	MSD 1x WG81367	79%		69%		91%		75%			0
06	L87096-03	79%		105%		102%		112%			0
07	L87096-04 10x	99%		95%		99%		100%			0
08	L87096-02 10x	99%		95%		100%		97%			0
09	L87096-05 10x	91%		88%		102%		99%			0
10											
11											
12											
13											
14											
15											
16											
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21											
22											
23											
24											
25											
26											
27											
28											
29											
30											

ADVISORY QC LIMITS

TCX = Tetrachloro-m-xylene (41-145)

DCB = Decachlorobiphenyl (39-137)

Column to be used to flag recovery values

* Values outside of contract required QC limits

3F

WATER PESTICIDE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Environmental Science Corporation Contract: Willams Gas & Pipeline

Lab Code: TN00003 Case No.: QAD1497 SAS No.: _____ SDG No.: L87096

Matrix Spike - Lab Sample No.: LCS/LCSD

COMPOUND		SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	#	QC. LIMITS REC.
1260							
	1	0.5	0 U	0.419			
	2	0.5	0 U	0.433			
	3	0.5	0 U	0.426			
	4	0.5	0 U	0.455	86.7%		49-142

COMPOUND		SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	#	% RPD	#	QC LIMITS RPD	QC LIMITS REC.
1260									
	1	0.5	0.426						
	2	0.5	0.448						
	3	0.5	0.435						
	4	0.5	0.458	88.4%		2		49-142	12

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

* Values outside of QC limits

RPD: 0 out of 1 outside limits

Spike Recovery: 0 out of 2 outside limits

COMMENTS: _____

3F

SOIL PESTICIDE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Environmental Science Corporation Contract: Willams Gas & Pipeline

Lab Code: TN00003 Case No.: QAD1494 SAS No.: SDG No.: L87096

Matrix Spike - Lab Sample No.: L87096-02

COMPOUND		SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC. LIMITS REC.
1260						
	1	0.5	1.301	0.000		
	2	0.5	1.141	0.190		
	3	0.5	1.518	0.068		
	4	0.5	0.326	0.067	-198.1%	49-142

COMPOUND		SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1260							
	1	0.5	6.404				
	2	0.5	1.846				
	3	0.5	2.046				
	4	0.5	0.691	335.1%	778	49-142	12

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

* Values outside of QC limits

RPD: 1 out of 1 outside limits

Spike Recovery: 2 out of 2 outside limits

COMMENTS: *High concentration of Arochlor 1254 interfered with the ability to make an accurate 1260 spike determination.*

3F

SOIL PESTICIDE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Environmental Science Corporation Contract: Willams Gas & Pipeline

Lab Code: TN00003 Case No.: QAD1494 SAS No.: SDG No.: L87096

Matrix Spike - Lab Sample No.: LCS/LCSD

COMPOUND		SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC. LIMITS REC.
1260						
	1	0.5	0 U	0.454		
	2	0.5	0 U	0.452		
	3	0.5	0 U	0.447		
	4	0.5	0 U	0.469	91.1%	49-142

COMPOUND		SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1260							
	1	0.5	0.523				
	2	0.5	0.473				
	3	0.5	0.475				
	4	0.5	0.490	98.1%	7	49-142	12

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

* Values outside of QC limits

RPD: 0 out of 1 outside limits

Spike Recovery: 0 out of 2 outside limits

COMMENTS:

4C

EPA SAMPLE NO.

PESTICIDE METHOD BLANK SUMMARY

Blank 1x WG81327

Lab Name: Environmental Science Corporati Contract: Willams Gas & Pipeline

Lab Code: TN00003 Case No.: QAD149 SAS No.: SDG No.: L87096

Lab Sample ID: Blank 1x WG81327 Lab File ID: 0822_18.D

Matrix: (soil/water) Water Extraction:(SepF/Cont/Sonc) SepF

Sulfur Cleanup: (Y/N) N Date Extracted: 08/22/02

Date Analyzed (1): 08/22/02 Date Analyzed (2): 08/22/02

Time Analyzed (1): 11:58 Time Analyzed (2): 11:58

Instrument ID (1): SVGC#5 Instrument ID (2): SVGC#5

GC Column(1): RTX-CLP Pest 1 GC Column(2): RTX-CLP Pest 2 ID: .32 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	Blank 1x WG81327	Blank 1x WG81327	08/22/02	08/22/02
02	LCS 1x WG81327	LCS 1x WG81327	08/22/02	08/22/02
03	LCSD 1x WG81327	LCSD 1x WG81327	08/22/02	08/22/02
04	BUFEQ-03	L87096-01 1x	08/22/02	08/22/02
05				
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
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22				
23				
24				
25				
26				
27				

COMMENTS:

4C

EPA SAMPLE NO.

PESTICIDE METHOD BLANK SUMMARY

Blank 1x WG81367

Lab Name: Environmental Science Corporati Contract: Willams Gas & Pipeline

Lab Code: TN00003 Case No.: QAD149 SAS No.: _____ SDG No.: L87096

Lab Sample ID: Blank 1x WG81367 Lab File ID: 0822_08.D

Matrix: (soil/water) Soil Extraction:(SepF/Cont/Sonc) Micro

Sulfur Cleanup: (Y/N) N Date Extracted: 08/17/02

Date Analyzed (1): 08/22/02 Date Analyzed (2): 08/22/02

Time Analyzed (1): 11:58 Time Analyzed (2): 11:58

Instrument ID (1): SVGC#5 Instrument ID (2): SVGC#5

GC Column(1): RTX-CLP Pest 1 GC Column(2): RTX-CLP Pest 2 ID: .32 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	Blank 1x WG81367	Blank 1x WG81367	08/22/02	08/22/02
02	LCS 1x WG81367	LCS 1x WG81367	08/22/02	08/22/02
03	LCSD 1x WG81367	LCSD 1x WG81367	08/22/02	08/22/02
04	MS 1x WG81367	MS 1x WG81367	08/22/02	08/22/02
05	MSD 1x WG81367	MSD 1x WG81367	08/22/02	08/22/02
06	BUFDL-03	L87096-03	08/22/02	08/22/02
07	BUFAR-02	L87096-04 10x	08/22/02	08/22/02
08	BUFAR-01	L87096-02 10x	08/22/02	08/22/02
09	BUFAR-03	L87096-05 10x	08/22/02	08/22/02
10				
11				
12				
13				
14				
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21				
22				
23				
24				
25				
26				
27				

COMMENTS:

6F

PESTICIDE INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: Environmental Science Corporation Contract: Willams Gas & Pipeline

Lab Code: TN00003 Case No.: QAD149 SAS No.: SDG No.: L87096

Instrument ID: SVGC#5 Date(s) Analyzed:

First Column: RTX CLP Pest 1 Second Column: RTX CLP Pest 2

First Column: COMPOUND	AMOUNT (ppm)	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR
Aroclor 1016	0.5	*1	4.02	3.97	4.07	1.002 E6
		*2	4.42	4.37	4.47	1.901 E6
		*3	5.08	5.03	5.13	1.404 E6
		4	5.15	5.10	5.20	8.948 E5
		5				
Aroclor 1254	1.0	*1	5.27	5.22	5.32	1.206 E6
		*2	5.51	5.46	5.56	5.831 E5
		*3	6.55	6.50	6.60	2.275 E6
		4	7.00	6.95	7.05	1.545 E6
		5				
Aroclor 1260	0.5	*1	6.43	6.38	6.48	5.859 E5
		*2	6.73	6.68	6.78	1.967 E6
		*3	7.27	7.22	7.32	2.997 E6
		4	7.92	7.87	7.97	3.715 E6
		5				

Second Column COMPOUND	AMOUNT (ppm)	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR
Aroclor 1016	0.5	*1	4.07	4.02	4.12	1.002 E6
		*2	4.52	4.47	4.57	1.901 E6
		*3	5.00	4.95	5.05	1.404 E6
		4	5.14	5.09	5.19	8.948 E5
		5				
Aroclor 1254	1.0	*1	5.63	5.58	5.68	6.098 E5
		*2	5.75	5.70	5.80	2.637 E5
		*3	6.69	6.64	6.74	2.643 E6
		4	7.07	7.02	7.12	1.189 E6
		5				
Aroclor 1260	0.5	*1	6.58	6.53	6.63	5.859 E5
		*2	6.88	6.83	6.93	1.967 E6
		*3	7.42	7.37	7.47	2.997 E6
		4	8.03	7.98	8.08	3.715 E6
		5				

* Denotes required peaks

7E

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: Environmental Science Corporation Contract: Willams Gas & Pipeline

Lab Code: TN00003 Case No.: QAD1494 SAS No.: SDG No.: L87096

Primary Analysis: Init. Calib. Date(s):

Arochlor 1016/1260 Date Analyzed: 1016/1260

Instrument: SVGC#5 Time Analyzed: 18:00

Lab File ID: 0822_17.D

Archlor 1254 Date Analyzed: 08/22/02

Lab File ID: 0822_25.D Time Analyzed: 19:58

First Column: COMPOUND		RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
Arochlor 1016	1	4.03	3.97	4.07	0.481		
	2	4.43	4.37	4.47	0.433		
	3	5.08	5.03	5.13	0.491		
	4	5.15	5.10	5.20	0.515	0.500	4
Arochlor 1254	1	5.27	5.22	5.32	0.989		
	2	5.51	5.46	5.56	1.057		
	3	6.55	6.50	6.60	1.065		
	4	7.00	6.95	7.05	1.032	1.000	4
Arochlor 1260	1	6.43	6.38	6.48	0.573		
	2	6.73	6.68	6.78	0.477		
	3	7.28	7.22	7.32	0.435		
	4	7.92	7.87	7.97	0.448	0.500	3

Second Column: COMPOUND		RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
Arochlor 1016	1	4.07	4.02	4.12	0.485		
	2	4.52	4.47	4.57	0.432		
	3	5.00	4.95	5.05	0.386		
	4	5.14	5.09	5.19	0.393	0.500	15
Arochlor 1254	1	5.63	5.58	5.68	0.950		
	2	5.75	5.70	5.80	1.052		
	3	6.69	6.64	6.74	1.235		
	4	7.07	7.02	7.12	1.227	1.000	12
Arochlor 1260	1	6.58	6.53	6.63	0.459		
	2	6.88	6.83	6.93	0.413		
	3	7.43	7.37	7.47	0.466		
	4	8.03	7.98	8.08	0.417	0.500	12

7E

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: Environmental Science Corporation Contract: Willams Gas & Pipeline

Lab Code: TN00003 Case No.: QAD1497 SAS No.: SDG No.: L87096

Primary Analysis: Init. Calib. Date(s):

Arochlor 1016/1260 Date Analyzed: 08/22/02

Instrument: SVGC#5 Time Analyzed: 22:02

Lab File ID: 0822_27.D

Archlor 1254 Date Analyzed:

Lab File ID: Time Analyzed:

First Column: COMPOUND		RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
Arochlor 1016	1	4.04	3.97	4.07	0.980		
	2	4.44	4.37	4.47	0.893		
	3	5.10	5.03	5.13	0.984		
	4	5.16	5.10	5.20	1.019	1.000	3
Arochlor 1254	1						
	2						
	3						
	4						
Arochlor 1260	1	6.44	6.38	6.48	1.097		
	2	6.75	6.68	6.78	0.970		
	3	7.29	7.22	7.32	1.100		
	4	7.94	7.87	7.97	0.964	1.000	3

Second Column: COMPOUND		RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
Arochlor 1016	1	4.08	4.02	4.12	0.969		
	2	4.53	4.47	4.57	0.941		
	3	5.02	4.95	5.05	0.816		
	4	5.16	5.09	5.19	0.814	1.000	12
Arochlor 1254	1						
	2						
	3						
	4						
Arochlor 1260	1	6.59	6.53	6.63	0.879		
	2	6.89	6.83	6.93	0.830		
	3	7.44	7.37	7.47	1.000		
	4	8.05	7.98	8.08	0.879	1.000	10

8D

PESTICIDE ANALYTICAL SEQUENCE

Lab Name: Environmental Science Corporation Contract: Willams Gas & Pipeline

Lab Code: TN00003 Case No.: QAD1497 SAS No.: _____ SDG No.: L87096

GC Column: RTX-CLP Pest 1 Init. Calib. Date(s): _____ _____

Instrument ID: SVGC#5

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION

TCX: 3.60 DCB: 9.26

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	TXC RT #	DCB RT #
01	Blank 1x WG81327	Blank 1x WG8132	08/22/02	18:15	3.59	9.24
02	LCS 1x WG81327	LCS 1x WG81327	08/22/02	18:30	3.59	9.24
03	LCSD 1x WG81327	LCSD 1x WG81327	08/22/02	18:44	3.59	9.24
04	BUFEQ-03	L87096-01 1x	08/22/02	18:59	3.59	9.24
05						
06						
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31						
32						

QC LIMITS

TCX = Tetrachloro-m-xylene (± 0.05 MINUTES)

DCB = Decachlorobiphenyl (± 0.10 MINUTES)

Column used to flag retention time values with an asterisk.

* Values outside of QC limits.

8D

PESTICIDE ANALYTICAL SEQUENCE

Lab Name: Environmental Science Corporation Contract: Willams Gas & Pipeline

Lab Code: TN00003 Case No.: QAD1494 SAS No.: _____ SDG No.: L87096

GC Column: RTX-CLP Pest 1 Init. Calib. Date(s): _____ _____

Instrument ID: SVGC#5

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION

TCX: 3.59 DCB: 9.24

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	TXC RT #	DCB RT #
01	Blank 1x WG81367	Blank 1x WG8136	08/22/02	15:42	3.59	9.24
02	LCS 1x WG81367	LCS 1x WG81367	08/22/02	15:56	3.59	9.24
03	LCSD 1x WG81367	LCSD 1x WG81367	08/22/02	16:11	3.59	9.24
04	MS 1x WG81367	MS 1x WG81367	08/22/02	19:43	3.59	9.24
05	MSD 1x WG81367	MSD 1x WG81367	08/22/02	19:58	3.59	9.24
06	BUFDL-03	L87096-03	08/22/02	16:33	3.59	9.24
07	BUFAR-02	L87096-04 10x	08/22/02	17:02	3.59	9.24
08	BUFAR-01	L87096-02 10x	08/22/02	17:16	3.59	9.24
09	BUFAR-03	L87096-05 10x	08/22/02	17:31	3.59	9.24
10						
11						
12						
13						
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25						
26						
27						
28						
29						
30						
31						
32						

QC LIMITS

TCX = Tetrachloro-m-xylene (± 0.05 MINUTES)

DCB = Decachlorobiphenyl (± 0.10 MINUTES)

Column used to flag retention time values with an asterisk.

* Values outside of QC limits.

LABORATORY CONTROL SAMPLE
WG81367

Lab Name: Environmental Science Corporation Contract: Willams Gas & Pipeline

Lab Code: TN00003 Case No.: QAD1497 SAS No.: SDG No.: L87096

Solid LCS Source: Lab File ID: 0822_19.D

Aqueous LCS Source:

Analyte		True	Found	%R	Control Limits		Q
Arochlor 1260	1	0.5	0.419				
	2	0.5	0.433				
	3	0.5	0.426				
	4	0.5	0.455	86.7%	64%	129%	

LABORATORY CONTROL SAMPLE
WG81327

Lab Name: Environmental Science Corporation Contract: Willams Gas & Pipeline

Lab Code: TN00003 Case No.: QAD1494 SAS No.: SDG No.: L87096

Solid LCS Source: Lab File ID: 0822_09.D

Aqueous LCS Source:

Analyte		True	Found	%R	Control Limits		Q
Arochlor 1260	1	0.5	0.454				
	2	0.5	0.452				
	3	0.5	0.447				
	4	0.5	0.469	91.1%	64%	129%	

Raw Data

SOILS/SOLIDS EXTRACTION LOG

Environmental Science Corp.

DATE 8/22/02

NaSO4 Lot # 8132 ANALYST KJR(316)

Surrogate Std # ESC 8082 Solvent Lot # 8207 (MeCl2) Acetone Hexane MTBE Other____

PCB 1260 Spk 7719 Solvent Lot # 8199 MeCl2 Acetone (Hexane) MTBE Other____

M. Spike Std # ESC 8006 M.Spike Vol. Used 1.0 mL LC Spike Std# SAME LC Spike Vol. Used 1.0 mL

EXTRACTION METHOD 3550 FOR ANALYSIS METHOD 8081/8082 SOP# 330705

Sample #	Wet Weight Extracted	Solvent Volume Used	Solvent Volume Rec.	Final Volume	Surr. Volume Added	Remarks/Observations
Method Blank	30.11	300 mL	~240 mL	10.0 mL	1.0 mL	50 mL hexane exchange
LCS	30.07					
LCSD	30.12					
MS 287096-02	30.16					
MSD	30.10					
286911-01	30.03					
-02	30.02					
-03	30.18					
-04	30.23					
-05	30.07					
287096-02	30.04					RUSH
-03	WIPE					
-04	30.02					
-05	30.20					
LCS Pest	30.38					
LCSD Pest	30.17					
MS 286911-02	30.19					
MSD	30.02					

Reviewed by: [illegible] 8/22/02

Remarks/Observations: (Con't on back if nec.)
WG81367

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WATER EXTRACTION LOG

Environmental Science Corp.

DATE 8/22/02

NaSO4 Lot # 8132 ANALYST JH (380)

Surrogate Std # 8081 Solvent Lot # 8207 MeCl2 Acetone Hexane MTBE Other

Spike Std # 8006 Solvent Lot # 8199 MeCl2 Acetone Hexane MTBE Other

PCB Spk 7719 (1260)

M. Spike Std # M.Spike Vol. Used — LC Spike Std# Same LC Spike Vol. Used 1.0ml

EXTRACTION METHOD 3510 FOR ANALYSIS METHOD 608 SOP# 330702

Sample #	Initial pH	Volume Extracted	Solvent Volume Used	Final Volume	Surr. Volume Added	Solvent Exchange Vol.
Method Blank		1000	180ml	10.0ml	1.0ml	50mls
LCS		↓	↓	↓	↓	Hexane
LCSD		↓	↓	↓	↓	
MS LCS	PCB	↓				↓
MSD LCSD		↓				↓
L87003-1		1000	180ml	10.0ml	1.0ml	↓
-2						↓
-3		↓	↓	↓	↓	↓
-4		↓	↓	↓	↓	↓
L86893-3		↓	↓	↓	↓	50ml HEXANE
87096-1		1000	180ml	10.0ml	1.0ml	↓
7 L86768-02		100ml	↓	↓	↓	↓
8 MS	L86768-02	↓	↓	↓	↓	↓
9 MSD	↓	↓	↓	↓	↓	↓
10 TCLP BLK		↓	↓	↓	↓	↓
11						
12						
13						Rec'd
14						8-22-02
15						clc
16						
17						
18						
19						
20						

K Roscoe 8/22/02

Reviewed by: K Roscoe 8/22/02

Remarks/Observations (cont. on back) 81327

Injection Log

Directory: C:\HPCHEM\1\DATA\082202

Svgc 5 8/22/02 KK

PCB6

KFS 8/23/02

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	1	0822_01.D	1.	hexane		22 Aug 2002 13:40
2	2	0822_02.D	1.	1016/1260 .05ppm	bad injection	22 Aug 2002 13:55
3	2	0822_02A.D	1.	1016/1260 .05ppm	bs030104k30	22 Aug 2002 14:57
4	3	0822_03.D	1.	1016/1260 .10ppm		22 Aug 2002 14:10
5	4	0822_04.D	1.	1016/1260 .25ppm		22 Aug 2002 14:24
6	5	0822_05.D	1.	1016/1260 .50ppm		22 Aug 2002 14:39
7	6	0822_06.D	1.	1016/1260 .75ppm		22 Aug 2002 15:12
8	7	0822_07.D	1.	1016/1260 1.0ppm		22 Aug 2002 15:27
9	8	0822_08.D	1.	Blank 1x WG81367 30-10	surr ESC8082	22 Aug 2002 15:42
10	9	0822_09.D	1.	LCS 1x WG81367 30-10	spk ESC7719	22 Aug 2002 15:56
11	10	0822_10.D	1.	LCSD 1x WG81367 30-10	8/22 KJR spk ESC7719	22 Aug 2002 16:11
12	11	0822_11.D	20.	L87096-03 20x WG81367 wipe-10		22 Aug 2002 16:33
13	14	0822_12.D	1.	1254 1ppm		22 Aug 2002 16:47
14	12	0822_13.D	10.	L87096-04 10x WG81367 30-10		22 Aug 2002 17:02
15	14	0822_14.D	10.	L87096-02 10x WG81367 30-10		22 Aug 2002 17:16
16	13	0822_15.D	10.	L87096-05 10x WG81367 30-10		22 Aug 2002 17:31
17	1	0822_16.D	1.	hexane		22 Aug 2002 17:46
18	2	0822_17.D	1.	1016/1260 .50ppm	bs030104k30	22 Aug 2002 18:00
19	15	0822_18.D	1.	Blank 1x WG81327 1000-10	surr ESC8081	22 Aug 2002 18:15
20	16	0822_19.D	1.	LCS 1x WG81327 1000-10	spk ESC7719	22 Aug 2002 18:30
21	17	0822_20.D	1.	LCSD 1x WG81327 1000-10	8/22 GH spk ESC7719	22 Aug 2002 18:44
22	18	0822_21.D	1.	L87096-01 1x WG81327 1000-10		22 Aug 2002 18:59
23	1	0822_22.D	1.	hexane		22 Aug 2002 19:14
24	2	0822_23.D	1.	1016/1260 .50ppm	vial empty	22 Aug 2002 19:28
2[illegible]	19	0822_24.D	1.	MS 1x WG81367 L87096-02 30-10		22 Aug 2002 19:43
2[illegible]	20	0822_25.D	1.	MSD 1x WG81367 L87096-02 30-10		22 Aug 2002 19:58
27	1	0822_26.D	1.	hexane		22 Aug 2002 20:12
28	2	0822_27.D	1.	1016/1260 1.0ppm		22 Aug 2002 22:02

PCB6

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Quantitation Report (QT Reviewed)

#1 : D:\DATA\SVGC#5\082202\0822_08.D\ECD1A.CH Vial: 8
Signal #2 : D:\DATA\SVGC#5\082202\0822_08.D\ECD2B.CH
Acq On : 22 Aug 2002 3:42 pm Operator: 308
Sample : Blank 1x WG81367 30-10 Inst : SVGC5
Misc : surr ESC8082 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Aug 22 16:35 2002 Quant Results File: PCB6.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB6.M (Chemstation Integrator)
Title :
Last Update : Thu Aug 22 15:46:06 2002
Response via : Initial Calibration
DataAcq Meth : PCB5.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) s TCMX	3.59	5616194	0.136 µg/mL
Spiked Amount 0.200 Range 41 - 145		Recovery =	68.00%
10) s DCB	9.24	4824856	0.169 µg/mL
Spiked Amount 0.200 Range 39 - 137		Recovery =	84.50%
12) s TCMX #2	3.49	5988967	0.141 µg/mL
Spiked Amount 0.200 Range 41 - 145		Recovery =	70.50%
21) s dcb #2	9.50	4942271	0.149 µg/mL
Spiked Amount 0.200 Range 39 - 137		Recovery =	74.50%
Target Compounds			
2) m,t AROCHLOR 1016(1)	4.05	178837	0.178 µg/mL
3) m,t AROCHLOR 1016(2)	4.36f	56886	0.030 µg/mL
4) m,t AROCHLOR 1016(3)	5.14f	37176	0.026 µg/mL
5) m,t AROCHLOR 1016(4)	5.14	37176	0.042 µg/mL
6) m,t AROCHLOR 1260(1)	6.44	10259	0.018 µg/mL
7) m,t AROCHLOR 1260(2)	6.74	28055	0.014 µg/mL
8) m,t AROCHLOR 1260(3)	0.00	0	N.D. µg/mL
9) m,t AROCHLOR 1260(4)	0.00	0	N.D. µg/mL
13) m,t AROCHLOR 1016(1) #2	4.10	15175	N.D. µg/mL
14) m,t AROCHLOR 1016(2) #2	4.60f	45664	N.D. µg/mL
15) m,t AROCHLOR 1016(3) #2	5.06f	18954	0.005 µg/mL
16) m,t AROCHLOR 1016(4) #2	5.12	22508	0.014 µg/mL
17) m,t AROCHLOR 1260(1) #2	0.00	0	N.D. µg/mL
18) m,t AROCHLOR 1260(2) #2	6.90	12797	0.005 µg/mL
19) m,t AROCHLOR 1260(3) #2	7.43	23205	N.D. µg/mL
20) m,t AROCHLOR 1260(4) #2	8.05	236252	0.055 µg/mL

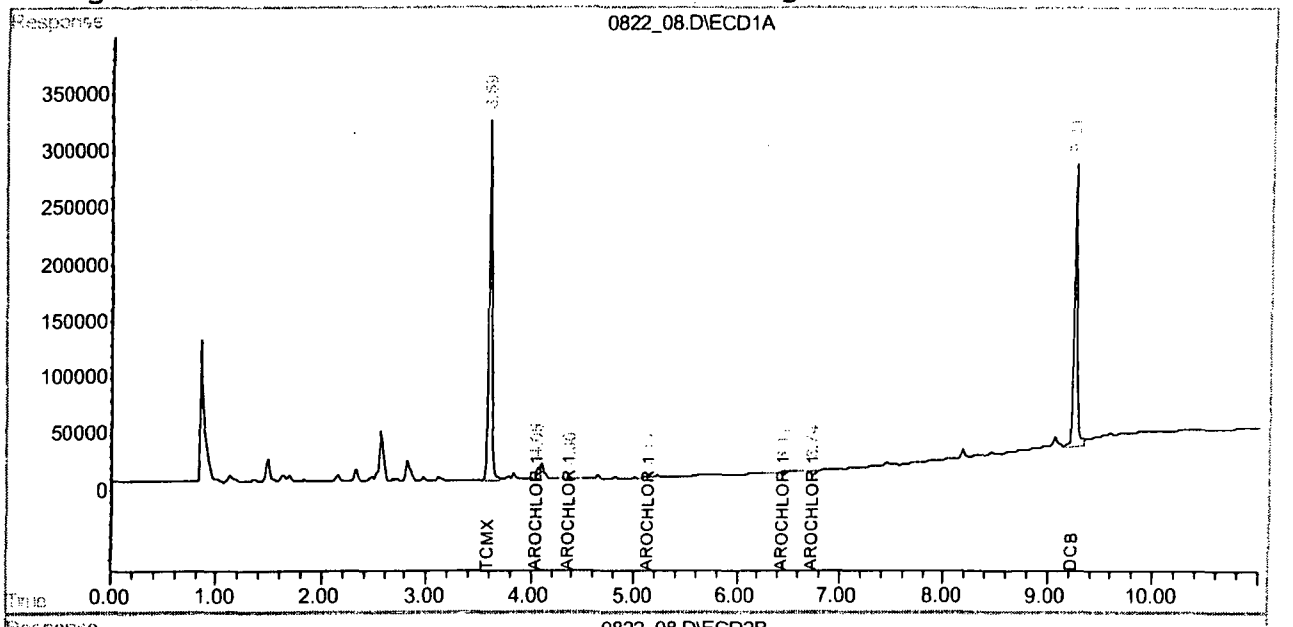
(f)=RT Delta > 1/2 Window (m)=manual int.

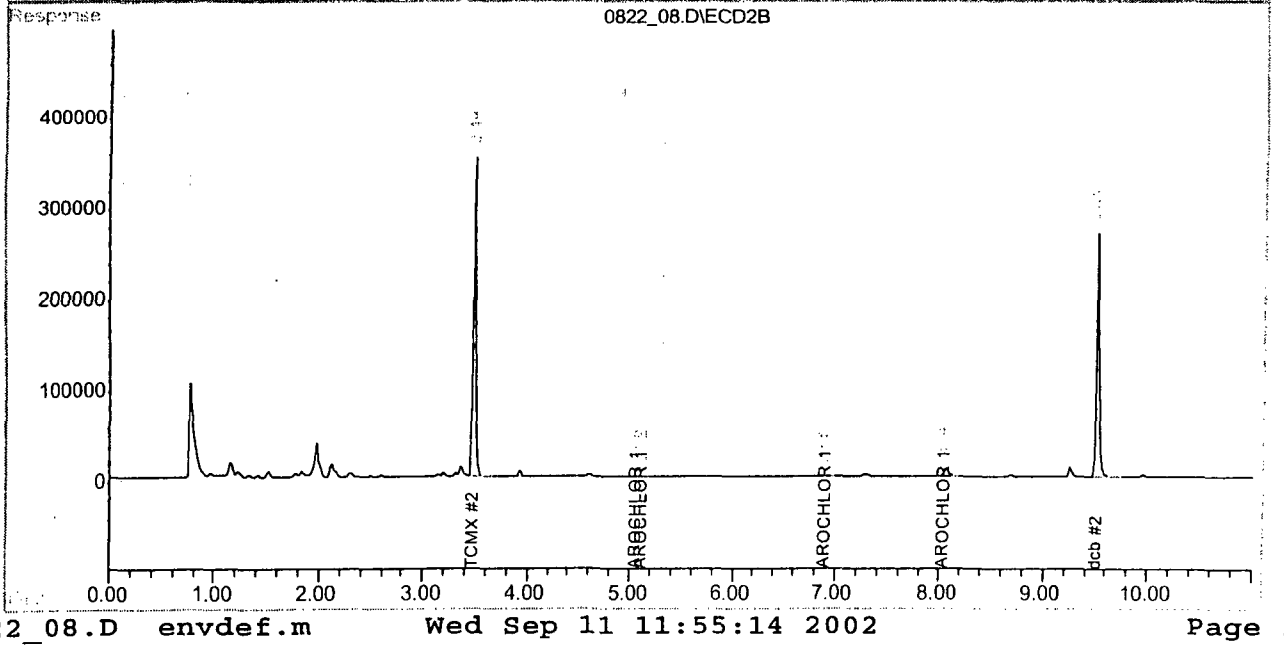
Quantitation Report (QT Reviewed)

Signal #1 : D:\DATA\SVGC#5\082202\0822_08.D\ECD1A.CH Vial: 8
Signal #2 : D:\DATA\SVGC#5\082202\0822_08.D\ECD2B.CH
Acq On : 22 Aug 2002 3:42 pm Operator: 308
Sample : Blank 1x WG81367 30-10 Inst : SVGC5
Misc : surr ESC8082 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Aug 22 16:35 2002 Quant Results File: PCB6.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB6.M (Chemstation Integrator)
Title :
Last Update : Thu Aug 22 15:46:06 2002
Response via : Multiple Level Calibration
DataAcq Meth : PCB5.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Signal #1 : D:\DATA\SVGC#5\082202\0822_09.D\ECD1A.CH Vial: 9
Signal #2 : D:\DATA\SVGC#5\082202\0822_09.D\ECD2B.CH
Acq On : 22 Aug 2002 3:56 pm Operator: 308
Sample : LCS 1x WG81367 30-10 Inst : SVGC5
Misc : spk ESC7719 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Aug 22 16:35 2002 Quant Results File: PCB6.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB6.M (Chemstation Integrator)
Title :
Last Update : Thu Aug 22 15:46:06 2002
Response via : Initial Calibration
DataAcq Meth : PCB5.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

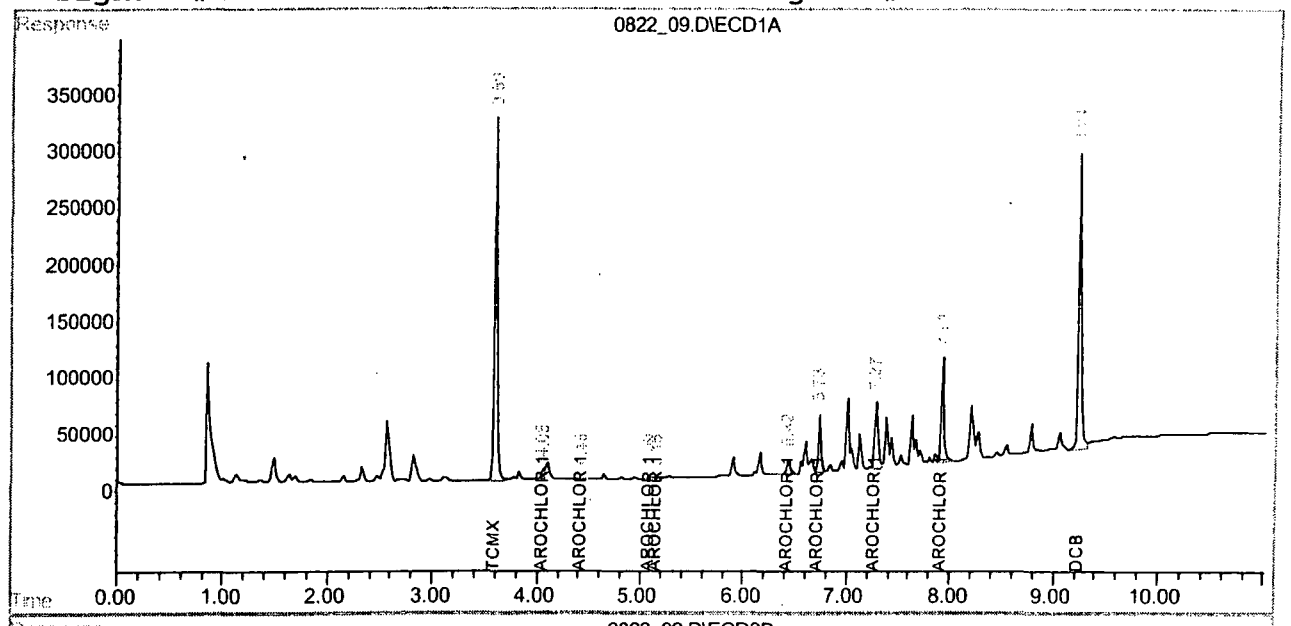
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) s TCMX	3.59	5698643	0.138 µg/mL
Spiked Amount 0.200 Range 41 - 145		Recovery =	69.00%
10) s DCB	9.24	4909312	0.172 µg/mL
Spiked Amount 0.200 Range 39 - 137		Recovery =	86.00%
12) s TCMX #2	3.49	6083021	0.143 µg/mL
Spiked Amount 0.200 Range 41 - 145		Recovery =	71.50%
21) s dcb #2	9.50	5046699	0.152 µg/mL
Spiked Amount 0.200 Range 39 - 137		Recovery =	76.00%
Target Compounds			
2) m,t AROCHLOR 1016(1)	4.05	199440	0.199 µg/mL
3) m,t AROCHLOR 1016(2)	4.43	16763	0.009 µg/mL
4) m,t AROCHLOR 1016(3)	5.09	14797	0.011 µg/mL
5) m,t AROCHLOR 1016(4)	5.15	24995	0.028 µg/mL
6) m,t AROCHLOR 1260(1)	6.43	266232	0.454 µg/mL
7) m,t AROCHLOR 1260(2)	6.73	890103	0.452 µg/mL
8) m,t AROCHLOR 1260(3)	7.27	1340824	0.447 µg/mL
9) m,t AROCHLOR 1260(4)	7.91	1743916	0.469 µg/mL
13) m,t AROCHLOR 1016(1) #2	4.10	21788	N.D. µg/mL
14) m,t AROCHLOR 1016(2) #2	4.52	15262	N.D. µg/mL
15) m,t AROCHLOR 1016(3) #2	5.00	17031	0.004 µg/mL
16) m,t AROCHLOR 1016(4) #2	5.12	1751	0.001 µg/mL
17) m,t AROCHLOR 1260(1) #2	6.57	86798	0.353 µg/mL
18) m,t AROCHLOR 1260(2) #2	6.88	1091321	0.406 µg/mL
19) m,t AROCHLOR 1260(3) #2	7.42	1628126	0.436 µg/mL
20) m,t AROCHLOR 1260(4) #2	8.03	1993678	0.465 µg/mL

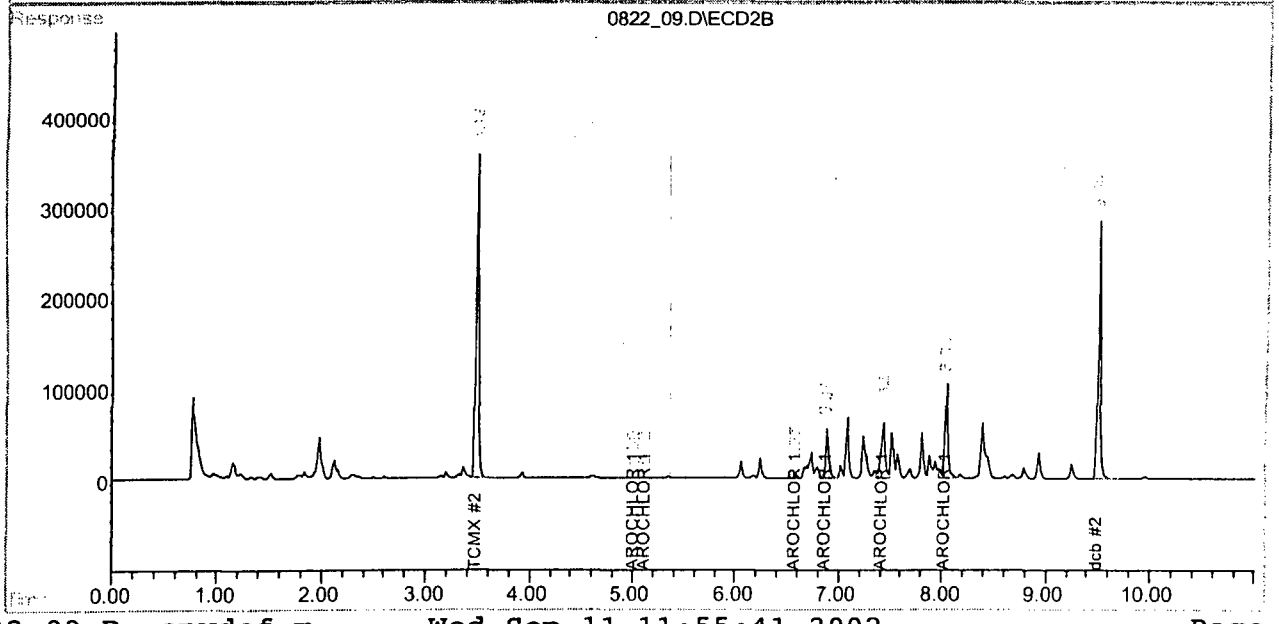
Quantitation Report (QT Reviewed)

Signal #1 : D:\DATA\SVGC#5\082202\0822_09.D\ECD1A.CH Vial: 9
Signal #2 : D:\DATA\SVGC#5\082202\0822_09.D\ECD2B.CH
Acq On : 22 Aug 2002 3:56 pm Operator: 308
Sample : LCS 1x WG81367 30-10 Inst : SVGC5
Misc : spk ESC7719 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Aug 22 16:35 2002 Quant Results File: PCB6.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB6.M (Chemstation Integrator)
Title :
Last Update : Thu Aug 22 15:46:06 2002
Response via : Multiple Level Calibration
DataAcq Meth : PCB5.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Signal #1 : D:\DATA\SVGC#5\082202\0822_10.D\ECD1A.CH Vial: 10
Signal #2 : D:\DATA\SVGC#5\082202\0822_10.D\ECD2B.CH
Acq On : 22 Aug 2002 4:11 pm Operator: 308
Sample : LCSD 1x WG81367 30-10 Inst : SVGC5
Misc : 8/22 KJR spk ESC7719 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Aug 22 16:36 2002 Quant Results File: PCB6.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB6.M (Chemstation Integrator)
Title :
Last Update : Thu Aug 22 15:46:06 2002
Response via : Initial Calibration
DataAcq Meth : PCB5.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) s TCMX	3.59	5742998	0.139 µg/mL
Spiked Amount 0.200 Range 41 - 145		Recovery =	69.50%
10) s DCB	9.24	4986361	0.174 µg/mL
Spiked Amount 0.200 Range 39 - 137		Recovery =	87.00%
12) s TCMX #2	3.49	6087844	0.143 µg/mL
Spiked Amount 0.200 Range 41 - 145		Recovery =	71.50%
21) s dcb #2	9.50	5257335	0.158 µg/mL
Spiked Amount 0.200 Range 39 - 137		Recovery =	79.00%
Target Compounds			
2) m,t AROCHLOR 1016(1)	4.05	186410	0.186 µg/mL
3) m,t AROCHLOR 1016(2)	4.43	22712	0.012 µg/mL
4) m,t AROCHLOR 1016(3)	5.09	15862	0.011 µg/mL
5) m,t AROCHLOR 1016(4)	5.15	30570	0.034 µg/mL
6) m,t AROCHLOR 1260(1)	6.43	306244	0.523 µg/mL
7) m,t AROCHLOR 1260(2)	6.73	930919	0.473 µg/mL
8) m,t AROCHLOR 1260(3)	7.27	1423061	0.475 µg/mL
9) m,t AROCHLOR 1260(4)	7.91	1820017	0.490 µg/mL
13) m,t AROCHLOR 1016(1) #2	4.10	23703	N.D. µg/mL
14) m,t AROCHLOR 1016(2) #2	4.52	14302	N.D. µg/mL
15) m,t AROCHLOR 1016(3) #2	5.00	20915	0.005 µg/mL
16) m,t AROCHLOR 1016(4) #2	5.14	15066	0.009 µg/mL
17) m,t AROCHLOR 1260(1) #2	6.57	111856	0.455 µg/mL
18) m,t AROCHLOR 1260(2) #2	6.87	1198023	0.446 µg/mL
19) m,t AROCHLOR 1260(3) #2	7.42	1770631	0.477 µg/mL
20) m,t AROCHLOR 1260(4) #2	8.03	2100154	0.490 µg/mL

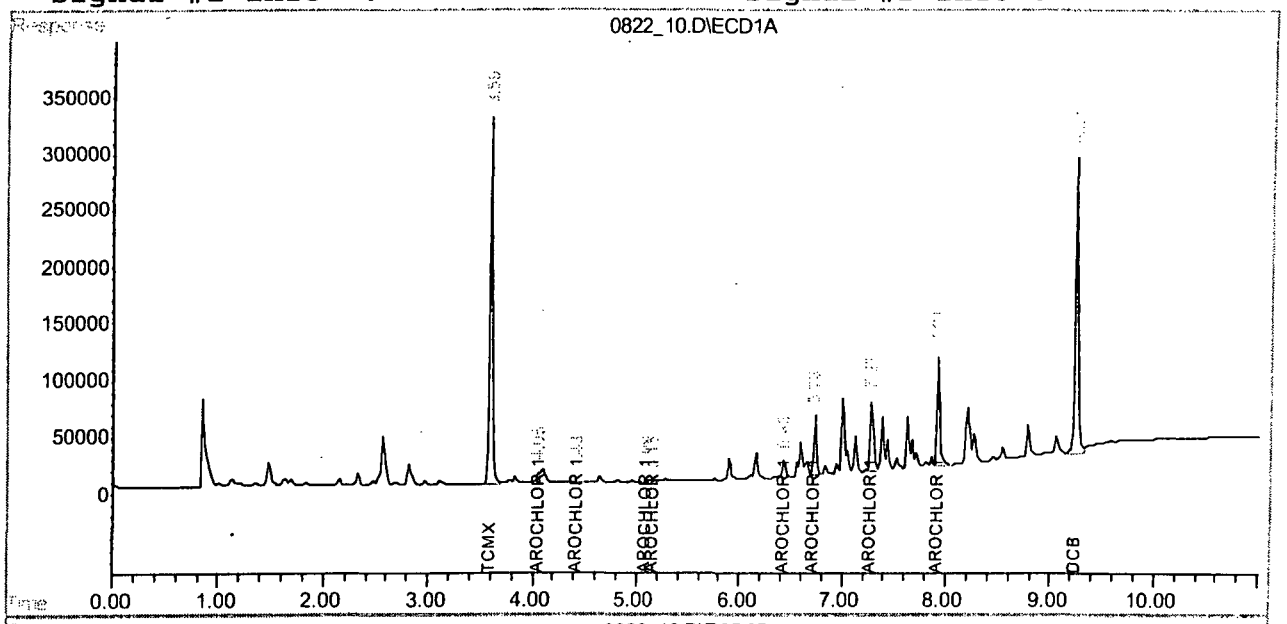
(f)=RT Delta > 1/2 Window (m)=manual int.

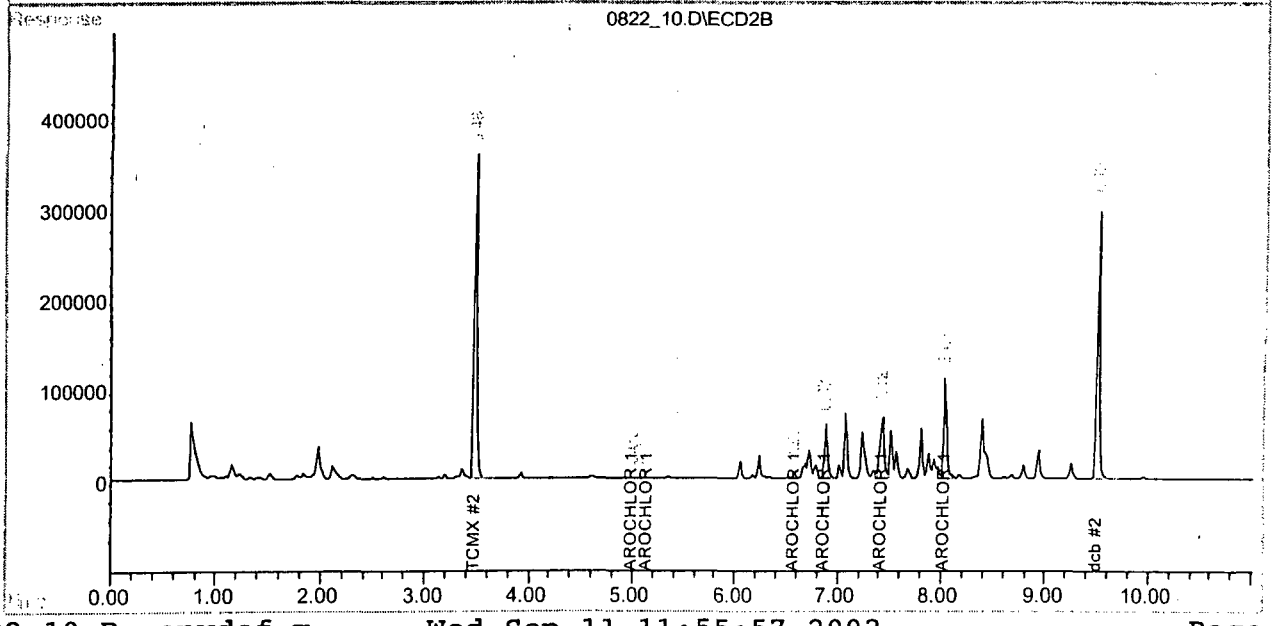
Quantitation Report (QT Reviewed)

Signal #1 : D:\DATA\SVGC#5\082202\0822_10.D\ECD1A.CH Vial: 10
Signal #2 : D:\DATA\SVGC#5\082202\0822_10.D\ECD2B.CH
Acq On : 22 Aug 2002 4:11 pm Operator: 308
Sample : LCSD 1x WG81367 30-10 Inst : SVGC5
Misc : 8/22 KJR spk ESC7719 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Aug 22 16:36 2002 Quant Results File: PCB6.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB6.M (Chemstation Integrator)
Title :
Last Update : Thu Aug 22 15:46:06 2002
Response via : Multiple Level Calibration
DataAcq Meth : PCB5.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Data File : D:\DATA\SVGC#5\082202\0822_11.D\ECD1A.CH Vial: 11
Acq On : 22 Aug 2002 4:33 pm Operator: 308
Sample : L87096-03 20x WG81367 wipe-10 Inst : SVGC5
Misc : Multiplr: 20.00
IntFile : events.e

Data File : D:\DATA\SVGC#5\082202\0822_11.D\ECD2B.CH Vial: 11
Acq On : 22 Aug 2002 4:33 pm Operator: 308
Sample : L87096-03 20x WG81367 wipe-10 Inst : SVGC5
Misc : Multiplr: 20.00
IntFile : events2.e
Quant Time: Aug 22 16:45 2002 Quant Results File: PCB6.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB6.M (Chemstation Integrator)
Title :
Last Update : Thu Aug 22 16:37:37 2002
Response via : Initial Calibration
DataAcq Meth : PCB5.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound			R.T.	Response	Conc Units
System Monitoring Compounds					
1) s TCMX			3.59	478569	0.157 µg/mL
Spiked Amount	0.200	Range	41 - 145	Recovery =	78.50%
10) s DCB			9.24	654075	0.457 µg/mL
Spiked Amount	0.200	Range	39 - 137	Recovery =	228.50%#
12) s TCMX #2			3.49	446524	0.210 µg/mL
Spiked Amount	0.200	Range	41 - 145	Recovery =	105.00%
21) s dcb #2			9.51	371348	0.224 µg/mL
Spiked Amount	0.200	Range	39 - 137	Recovery =	112.00%
Target Compounds					
2) m,t AROCHLOR 1016(1)			4.05	59877	1.195 µg/mL
3) m,t AROCHLOR 1016(2)			4.36f	28666	0.302 µg/mL
4) m,t AROCHLOR 1016(3)			0.00	0	N.D. µg/mL
5) m,t AROCHLOR 1016(4)			0.00	0	N.D. µg/mL
6) m,t AROCHLOR 1260(1)			6.44	29803	1.017 µg/mL
7) m,t AROCHLOR 1260(2)			6.73	26635	0.271 µg/mL
8) m,t AROCHLOR 1260(3)			7.28	54200	0.362 µg/mL
9) m,t AROCHLOR 1260(4)			7.93	33235	0.179 µg/mL
13) m,t AROCHLOR 1016(1) #2			0.00	0	N.D. µg/mL
14) m,t AROCHLOR 1016(2) #2			0.00	0	N.D. µg/mL
15) m,t AROCHLOR 1016(3) #2			0.00	0	N.D. µg/mL
16) m,t AROCHLOR 1016(4) #2			0.00	0	N.D. µg/mL
17) m,t AROCHLOR 1260(1) #2			6.58	33250	2.706 µg/mL
18) m,t AROCHLOR 1260(2) #2			6.91	85166	0.634 µg/mL
19) m,t AROCHLOR 1260(3) #2			7.43	81337	N.D. µg/mL
20) m,t AROCHLOR 1260(4) #2			8.04	25963	0.121 µg/mL

(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : D:\DATA\SVGC#5\082202\0822_11.D\ECD1A.CH Vial: 11
Acq On : 22 Aug 2002 4:33 pm Operator: 308
Sample : L87096-03 20x WG81367 wipe-10 Inst : SVGC5
Misc : Multiplr: 20.00
IntFile : events.e

Data File : D:\DATA\SVGC#5\082202\0822_11.D\ECD2B.CH Vial: 11
Acq On : 22 Aug 2002 4:33 pm Operator: 308
Sample : L87096-03 20x WG81367 wipe-10 Inst : SVGC5
Misc : Multiplr: 20.00
IntFile : events2.e
Quant Time: Aug 22 16:45 2002 Quant Results File: PCB6.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB6.M (Chemstation Integrator)
Title :
Last Update : Thu Aug 22 16:37:37 2002
Response via : Initial Calibration
DataAcq Meth : PCB5.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc Units

(f)=RT Delta > 1/2 Window (m)=manual int.

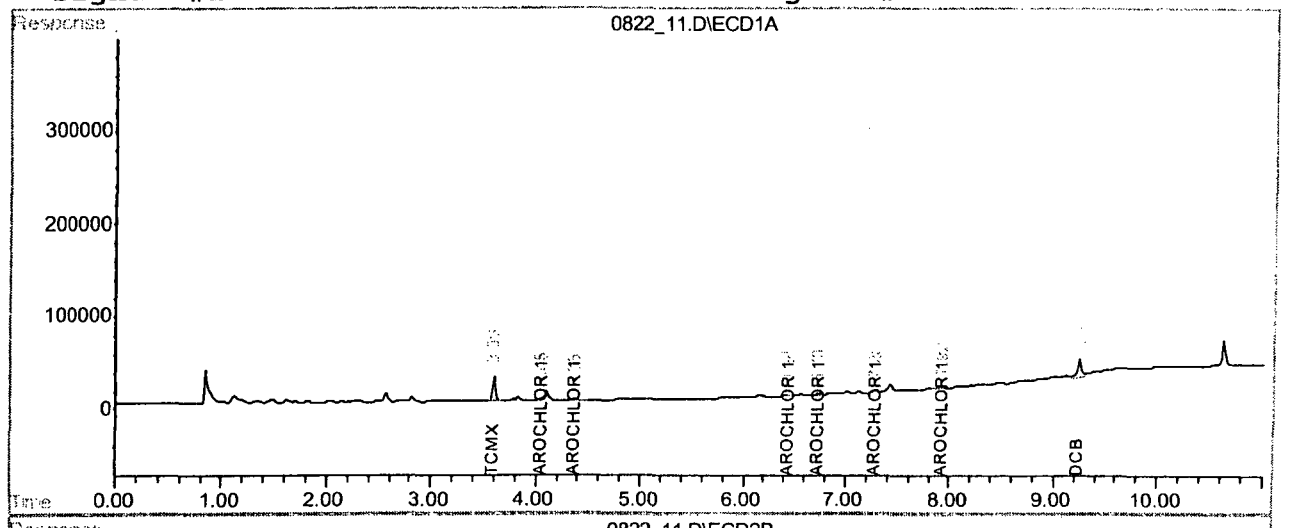
Quantitation Report (QT Reviewed)

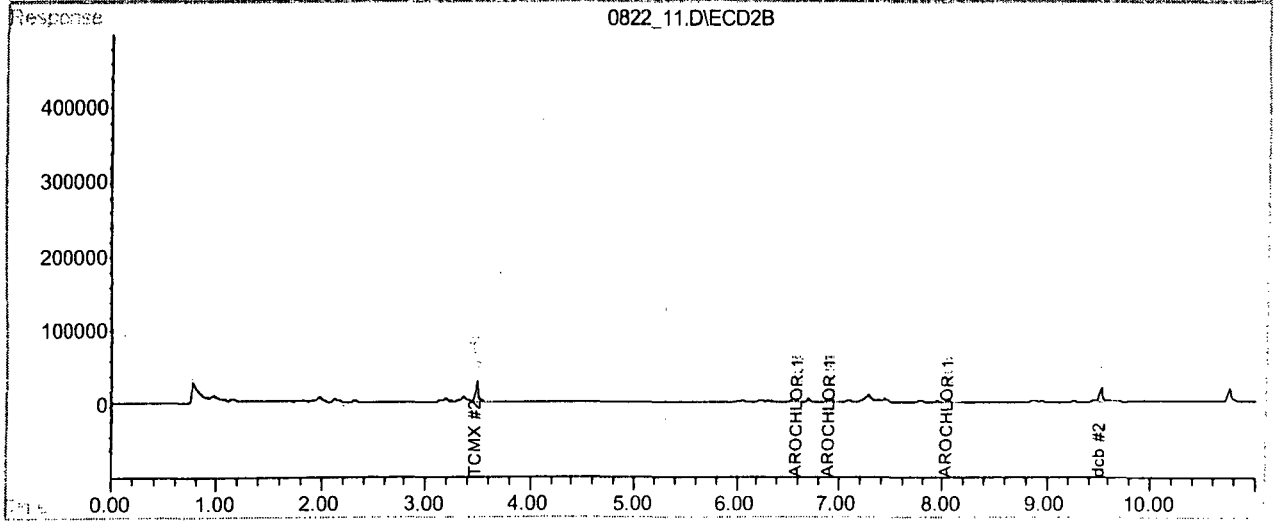
Data File : D:\DATA\SVGC#5\082202\0822_11.D\ECD1A.CH Vial: 11
Acq On : 22 Aug 2002 4:33 pm Operator: 308
Sample : L87096-03 20x WG81367 wipe-10 Inst : SVGC5
Misc : Multiplr: 20.00
IntFile : events.e

Data File : D:\DATA\SVGC#5\082202\0822_11.D\ECD2B.CH Vial: 11
Acq On : 22 Aug 2002 4:33 pm Operator: 308
Sample : L87096-03 20x WG81367 wipe-10 Inst : SVGC5
Misc : Multiplr: 20.00
IntFile : events2.e
Quant Time: Aug 22 16:45 2002 Quant Results File: PCB6.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB6.M (Chemstation Integrator)
Title :
Last Update : Thu Aug 22 16:37:37 2002
Response via : Multiple Level Calibration
DataAcq Meth : PCB5.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Data File : D:\DATA\SVGC#5\082202\0822_11.D\ECD1A.CH Vial: 11
Acq On : 22 Aug 2002 4:33 pm Operator: 308
Sample : L87096-03 20x WG81367 wipe-10 Inst : SVGC5
Misc : Multiplr: 20.00
IntFile : events.e

Data File : D:\DATA\SVGC#5\082202\0822_11.D\ECD2B.CH Vial: 11
Acq On : 22 Aug 2002 4:33 pm Operator: 308
Sample : L87096-03 20x WG81367 wipe-10 Inst : SVGC5
Misc : Multiplr: 20.00
IntFile : events2.e
Quant Time: Aug 22 21:25 2002 Quant Results File: 1254L.RES

Quant Method : C:\HPCHEM\1\METHODS\1254L.M (Chemstation Integrator)
Title :
Last Update : Thu Aug 22 21:24:25 2002
Response via : Initial Calibration
DataAcq Meth : PCB5.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) s TCMX	3.59	478569	0.157 µg/mL
Spiked Amount 0.200 Range 41 - 145		Recovery =	78.50%
6) s DCB	9.24	289882	0.203 µg/mLm
Spiked Amount 0.200 Range 39 - 137		Recovery =	101.50%
8) s TCMX #2	3.49	446524	0.210 µg/mL
Spiked Amount 0.200 Range 41 - 145		Recovery =	105.00%
13) s dcb #2	9.51	371348	0.224 µg/mL
Spiked Amount 0.200 Range 39 - 137		Recovery =	112.00%
Target Compounds			
2) m,t AROCHLOR 1254(1)	5.28	11489	0.191 µg/mLm
3) m,t AROCHLOR 1254(2)	5.51	5827	0.200 µg/mLm
4) m,t AROCHLOR 1254(3)	6.56	57985	0.510 µg/mL
5) m,t AROCHLOR 1254(4)	7.01	42444	0.550 µg/mL
9) m,t AROCHLOR 1254(1) #2	5.63	9293	0.305 µg/mLm
10) m,t AROCHLOR 1254(2) #2	5.75	3363	0.255 µg/mLm
11) m,t AROCHLOR 1254(3) #2	6.69	73237	0.554 µg/mL
12) m,t AROCHLOR 1254(4) #2	7.08	36716	0.618 µg/mL

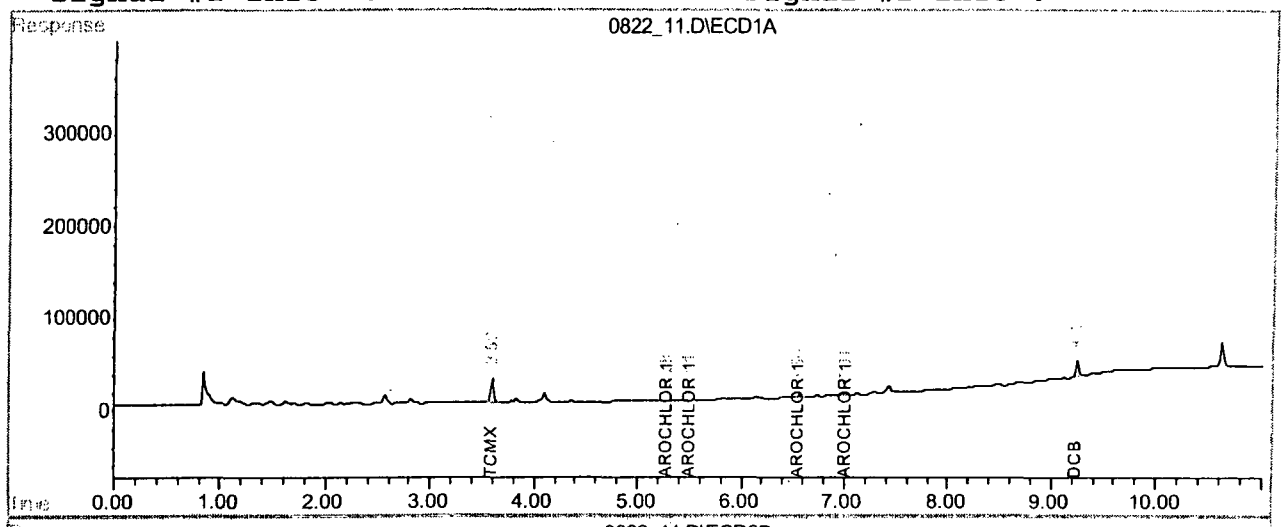
Quantitation Report (QT Reviewed)

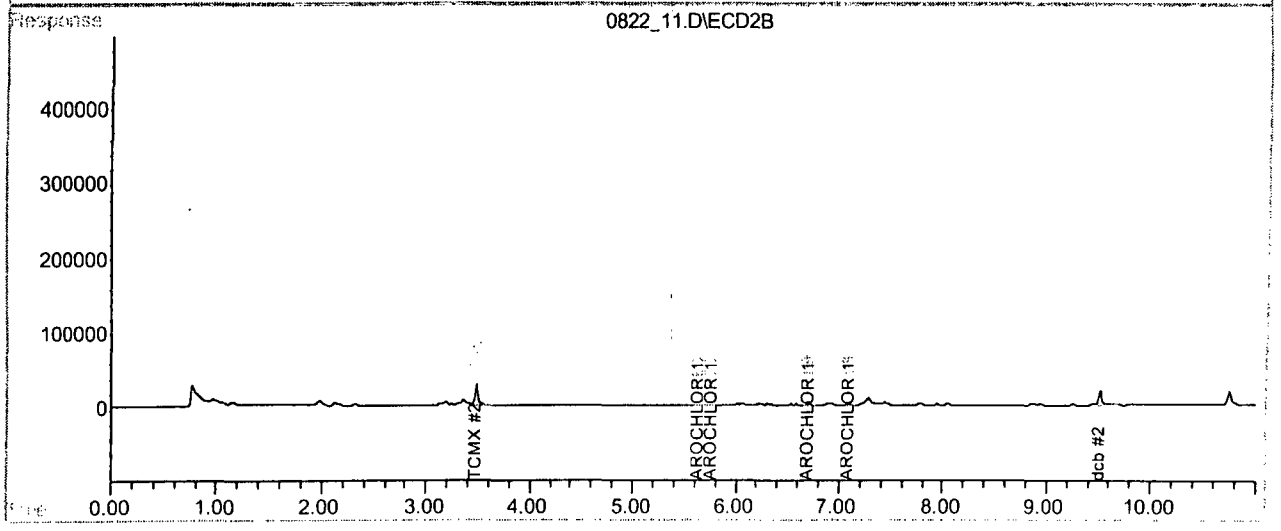
Data File : D:\DATA\SVGC#5\082202\0822_11.D\ECD1A.CH Vial: 11
Acq On : 22 Aug 2002 4:33 pm Operator: 308
Sample : L87096-03 20x WG81367 wipe-10 Inst : SVGC5
Misc : Multiplr: 20.00
IntFile : events.e

Data File : D:\DATA\SVGC#5\082202\0822_11.D\ECD2B.CH Vial: 11
Acq On : 22 Aug 2002 4:33 pm Operator: 308
Sample : L87096-03 20x WG81367 wipe-10 Inst : SVGC5
Misc : Multiplr: 20.00
IntFile : events2.e
Quant Time: Aug 22 21:25 2002 Quant Results File: 1254L.RES

Quant Method : C:\HPCHEM\1\METHODS\1254L.M (Chemstation Integrator)
Title :
Last Update : Thu Aug 22 21:24:25 2002
Response via : Multiple Level Calibration
DataAcq Meth : PCB5.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Signal #1 : D:\DATA\SVGC#5\082202\0822_12.D\ECD1A.CH Vial: 14
Signal #2 : D:\DATA\SVGC#5\082202\0822_12.D\ECD2B.CH
Acq On : 22 Aug 2002 4:47 pm Operator: 308
Sample : 1254 1ppm Inst : SVGC5
Misc : Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Aug 22 21:24 2002 Quant Results File: 1254L.RES

Quant Method : C:\HPCHEM\1\METHODS\1254L.M (Chemstation Integrator)
Title :
Last Update : Thu Aug 22 21:24:05 2002
Response via : Initial Calibration
DataAcq Meth : PCB5.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

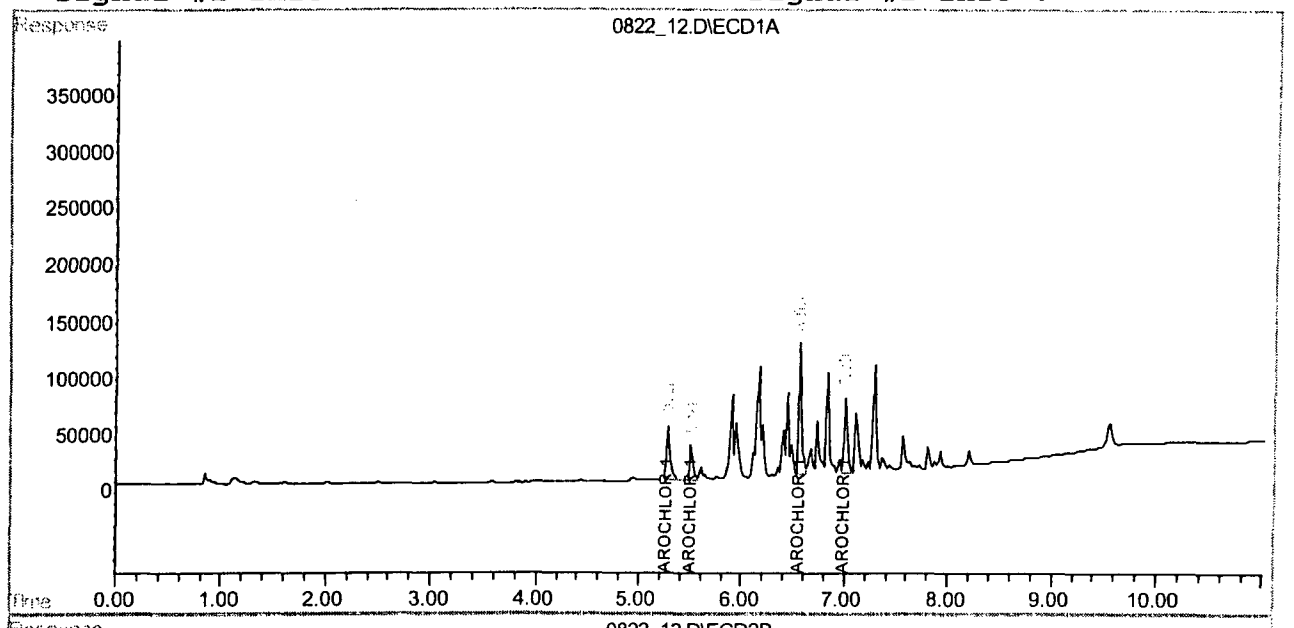
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) s TCMX	0.00	0	N.D. µg/mLd
Spiked Amount 0.200	Range 41 - 145	Recovery =	0.00%#
6) s DCB	0.00	0	N.D. µg/mL
Spiked Amount 0.200	Range 39 - 137	Recovery =	0.00%#
8) s TCMX #2	0.00	0	N.D. µg/mL
Spiked Amount 0.200	Range 41 - 145	Recovery =	0.00%#
13) s dcb #2	0.00	0	N.D. µg/mL
Spiked Amount 0.200	Range 39 - 137	Recovery =	0.00%#
Target Compounds			
2) m,t AROCHLOR 1254(1)	5.27	1206014	0.989 µg/mL
3) m,t AROCHLOR 1254(2)	5.51	583130	1.057 µg/mL
4) m,t AROCHLOR 1254(3)	6.55	2275409	1.065 µg/mL
5) m,t AROCHLOR 1254(4)	7.00	1544535	1.032 µg/mL
9) m,t AROCHLOR 1254(1) #2	5.63	609777	0.950 µg/mL
10) m,t AROCHLOR 1254(2) #2	5.75	263735	1.052 µg/mL
11) m,t AROCHLOR 1254(3) #2	6.69	2643179	1.235 µg/mL
12) m,t AROCHLOR 1254(4) #2	7.07	1188579	1.227 µg/mL

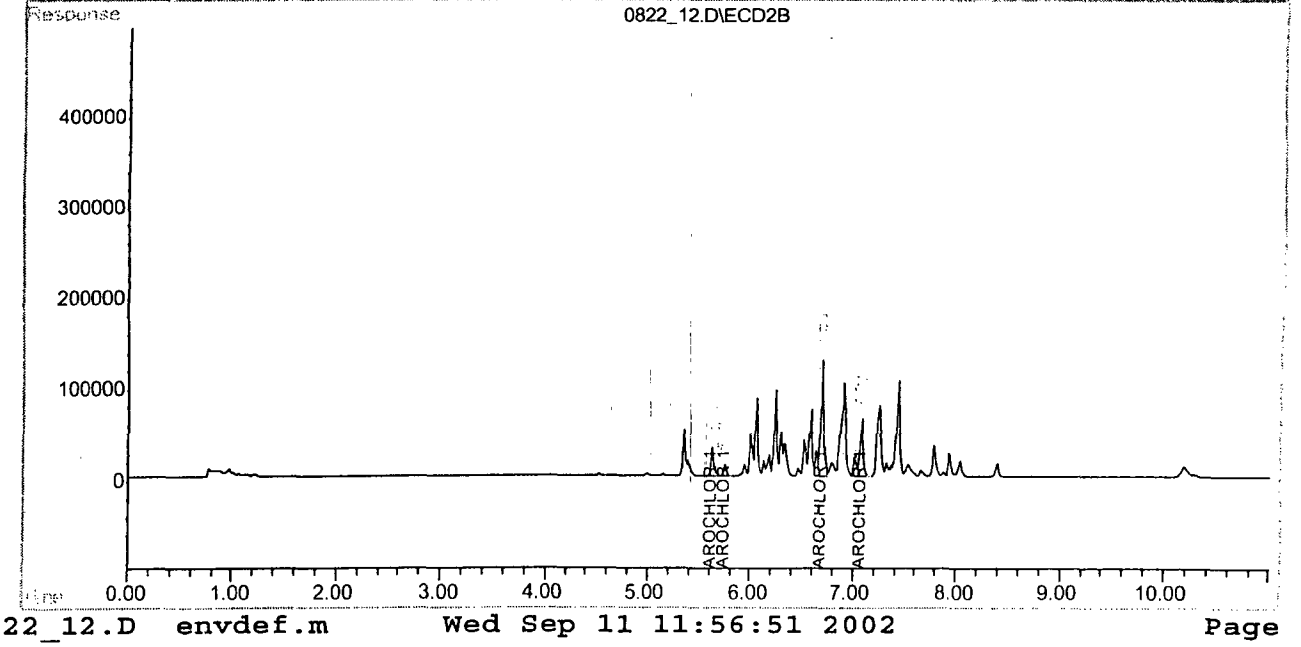
Quantitation Report (QT Reviewed)

Signal #1 : D:\DATA\SVGC#5\082202\0822_12.D\ECD1A.CH Vial: 14
Signal #2 : D:\DATA\SVGC#5\082202\0822_12.D\ECD2B.CH
Acq On : 22 Aug 2002 4:47 pm Operator: 308
Sample : 1254 1ppm Inst : SVGC5
Misc : Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Aug 22 21:24 2002 Quant Results File: 1254L.RES

Quant Method : C:\HPCHEM\1\METHODS\1254L.M (Chemstation Integrator)
Title :
Last Update : Thu Aug 22 21:24:05 2002
Response via : Multiple Level Calibration
DataAcq Meth : PCB5.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Signal #1 : D:\DATA\SVGC#5\082202\0822_13.D\ECD1A.CH Vial: 12
Signal #2 : D:\DATA\SVGC#5\082202\0822_13.D\ECD2B.CH
Acq On : 22 Aug 2002 5:02 pm Operator: 308
Sample : L87096-04 10x WG81367 30-10 Inst : SVGC5
Misc : Multiplr: 10.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Aug 22 21:25 2002 Quant Results File: 1254L.RES

Quant Method : C:\HPCHEM\1\METHODS\1254L.M (Chemstation Integrator)
Title :
Last Update : Thu Aug 22 21:24:25 2002
Response via : Initial Calibration
DataAcq Meth : PCB5.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) s TCMX	3.59	882112	0.197 µg/mL
Spiked Amount 0.200 Range 41 - 145		Recovery =	98.50%
6) s DCB	9.24	564381	0.197 µg/mLm
Spiked Amount 0.200 Range 39 - 137		Recovery =	98.50%
8) s TCMX #2	3.49	808598	0.190 µg/mL
Spiked Amount 0.200 Range 41 - 145		Recovery =	95.00%
13) s dcb #2	9.51	659583	0.199 µg/mL
Spiked Amount 0.200 Range 39 - 137		Recovery =	99.50%
Target Compounds			
2) m,t AROCHLOR 1254(1)	5.28	113679	0.943 µg/mL
3) m,t AROCHLOR 1254(2)	5.51	6879	0.118 µg/mLm
4) m,t AROCHLOR 1254(3)	6.56	92952	0.409 µg/mL
5) m,t AROCHLOR 1254(4)	7.01	58111	0.376 µg/mL
9) m,t AROCHLOR 1254(1) #2	5.63	10039	0.165 µg/mL
10) m,t AROCHLOR 1254(2) #2	5.75	10900	0.413 µg/mL
11) m,t AROCHLOR 1254(3) #2	6.69	120350	0.455 µg/mL
12) m,t AROCHLOR 1254(4) #2	7.08	58379	0.491 µg/mL

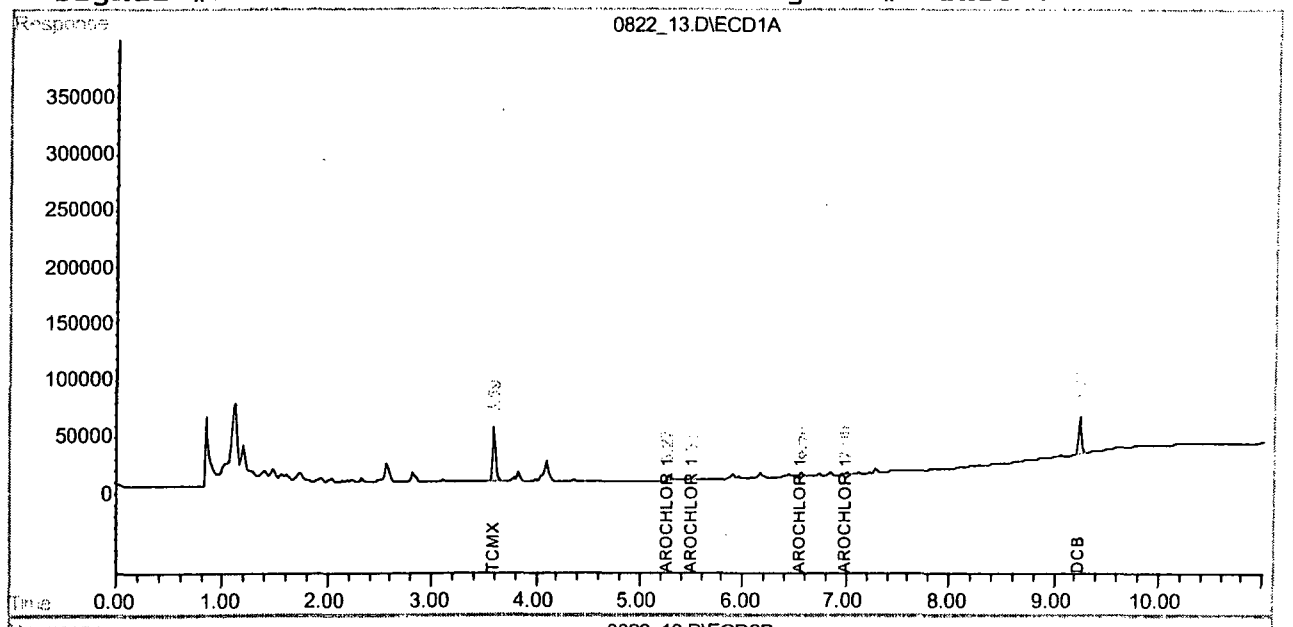
(f)=RT Delta > 1/2 Window (m)=manual int.

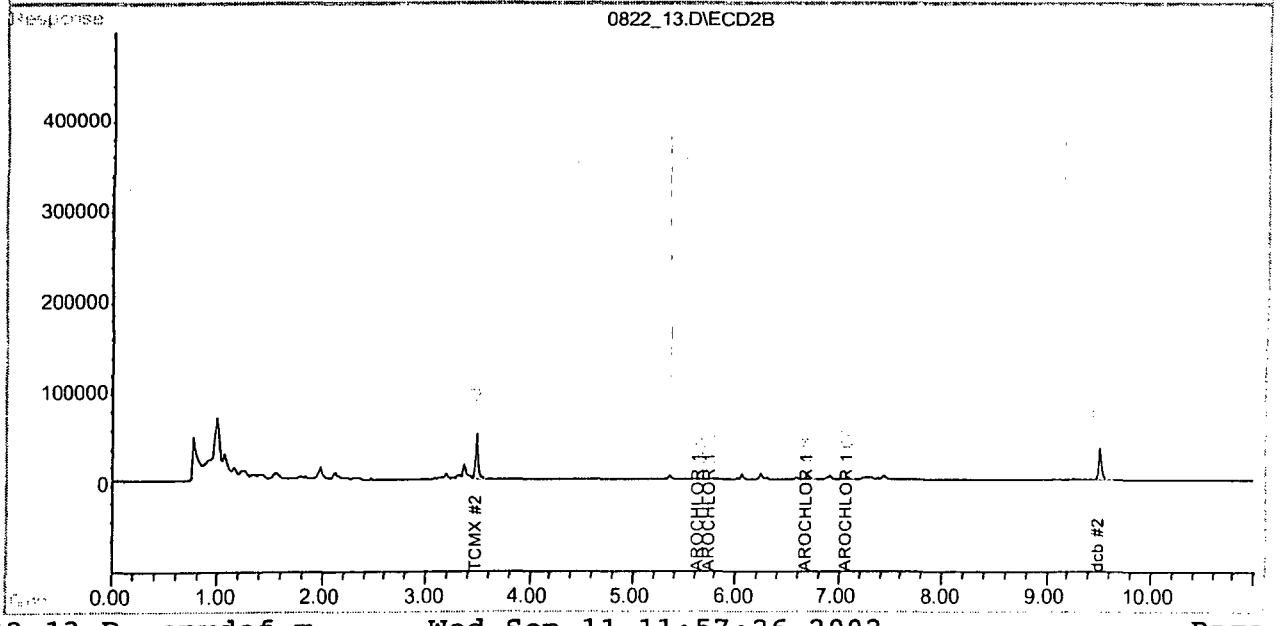
Quantitation Report (QT Reviewed)

Signal #1 : D:\DATA\SVGC#5\082202\0822_13.D\ECD1A.CH Vial: 12
Signal #2 : D:\DATA\SVGC#5\082202\0822_13.D\ECD2B.CH
Acq On : 22 Aug 2002 5:02 pm Operator: 308
Sample : L87096-04 10x WG81367 30-10 Inst : SVGC5
Misc : Multiplr: 10.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Aug 22 21:25 2002 Quant Results File: 1254L.RES

Quant Method : C:\HPCHEM\1\METHODS\1254L.M (Chemstation Integrator)
Title :
Last Update : Thu Aug 22 21:24:25 2002
Response via : Multiple Level Calibration
DataAcq Meth : PCB5.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Signal #1 : D:\DATA\SVGC#5\082202\0822_14.D\ECD1A.CH Vial: 14
Signal #2 : D:\DATA\SVGC#5\082202\0822_14.D\ECD2B.CH
Acq On : 22 Aug 2002 5:16 pm Operator: 308
Sample : L87096-02 10x WG81367 30-10 Inst : SVGC5
Misc : Multiplr: 10.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Aug 22 21:26 2002 Quant Results File: 1254L.RES

Quant Method : C:\HPCHEM\1\METHODS\1254L.M (Chemstation Integrator)
Title :
Last Update : Thu Aug 22 21:24:25 2002
Response via : Initial Calibration
DataAcq Meth : PCB5.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

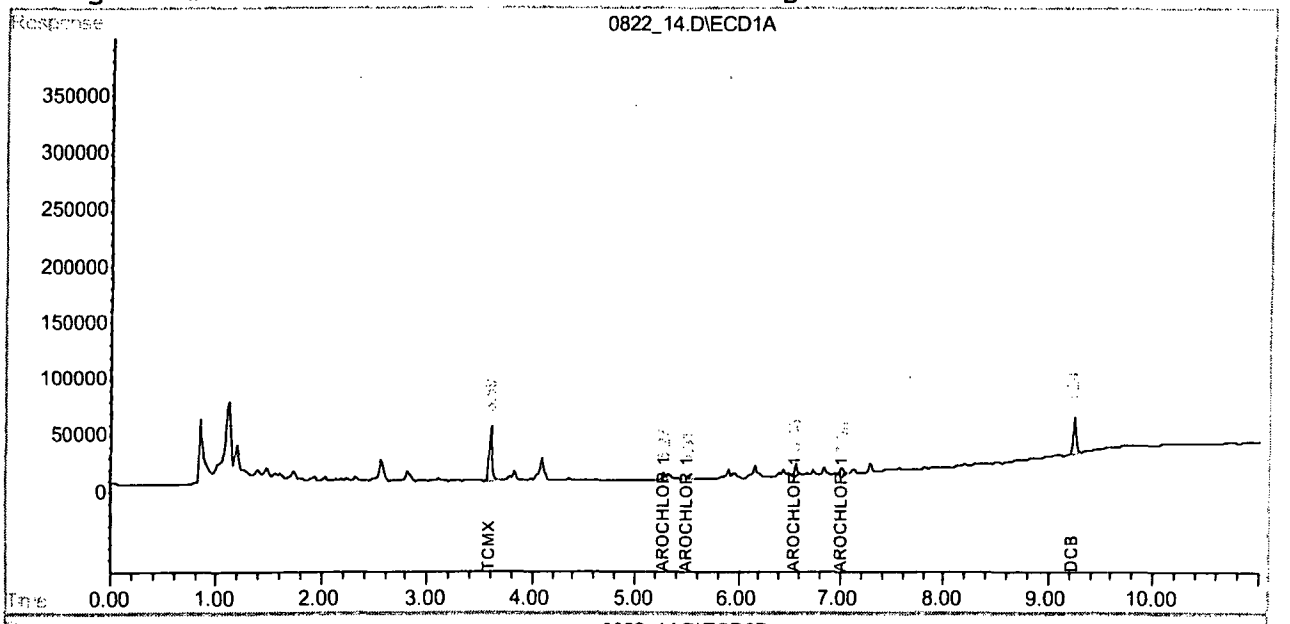
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) s TCMX	3.59	882744	0.197 µg/mL
Spiked Amount 0.200 Range 41 - 145	Recovery =	98.50%	
6) s DCB	9.24	568523	0.199 µg/mLm
Spiked Amount 0.200 Range 39 - 137	Recovery =	99.50%	
8) s TCMX #2	3.49	810342	0.190 µg/mL
Spiked Amount 0.200 Range 41 - 145	Recovery =	95.00%	
13) s dcb #2	9.51	639138	0.193 µg/mL
Spiked Amount 0.200 Range 39 - 137	Recovery =	96.50%	
Target Compounds			
2) m,t AROCHLOR 1254(1)	5.28	98811	0.819 µg/mL
3) m,t AROCHLOR 1254(2)	5.51	49985	0.857 µg/mL
4) m,t AROCHLOR 1254(3)	6.56	204297	0.898 µg/mL
5) m,t AROCHLOR 1254(4)	7.01	144445	0.935 µg/mL
9) m,t AROCHLOR 1254(1) #2	5.63	51688	0.848 µg/mL
10) m,t AROCHLOR 1254(2) #2	5.75	26696	1.012 µg/mL
11) m,t AROCHLOR 1254(3) #2	6.69	253665	0.960 µg/mL
12) m,t AROCHLOR 1254(4) #2	7.07	118704	0.999 µg/mL

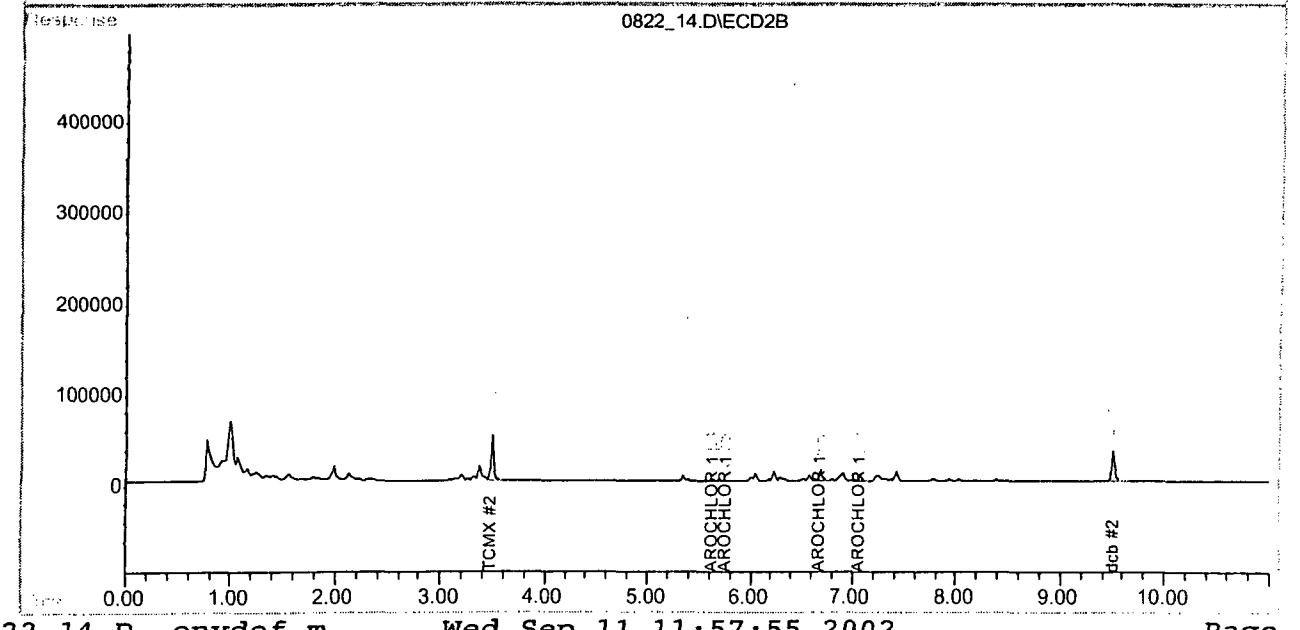
Quantitation Report (QT Reviewed)

Signal #1 : D:\DATA\SVGC#5\082202\0822_14.D\ECD1A.CH Vial: 14
Signal #2 : D:\DATA\SVGC#5\082202\0822_14.D\ECD2B.CH
Acq On : 22 Aug 2002 5:16 pm Operator: 308
Sample : L87096-02 10x WG81367 30-10 Inst : SVGC5
Misc : Multiplr: 10.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Aug 22 21:26 2002 Quant Results File: 1254L.RES

Quant Method : C:\HPCHEM\1\METHODS\1254L.M (Chemstation Integrator)
Title :
Last Update : Thu Aug 22 21:24:25 2002
Response via : Multiple Level Calibration
DataAcq Meth : PCB5.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Signal #1 : D:\DATA\SVGC#5\082202\0822_15.D\ECD1A.CH Vial: 13
Signal #2 : D:\DATA\SVGC#5\082202\0822_15.D\ECD2B.CH
Acq On : 22 Aug 2002 5:31 pm Operator: 308
Sample : L87096-05 10x WG81367 30-10 Inst : SVGC5
Misc : Multiplr: 10.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Aug 22 21:26 2002 Quant Results File: 1254L.RES

Quant Method : C:\HPCHEM\1\METHODS\1254L.M (Chemstation Integrator)
Title :
Last Update : Thu Aug 22 21:24:25 2002
Response via : Initial Calibration
DataAcq Meth : PCB5.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) s TCMX	3.59	826980	0.181 µg/mL
Spiked Amount 0.200	Range 41 - 145	Recovery =	90.50%
6) s DCB	9.24	580536	0.203 µg/mLm
Spiked Amount 0.200	Range 39 - 137	Recovery =	101.50%
8) s TCMX #2	3.49	751520	0.176 µg/mL
Spiked Amount 0.200	Range 41 - 145	Recovery =	88.00%
13) s dcb #2	9.51	654934	0.197 µg/mL
Spiked Amount 0.200	Range 39 - 137	Recovery =	98.50%
Target Compounds			
2) m,t AROCHLOR 1254(1)	5.34f	3631	0.030 µg/mL
3) m,t AROCHLOR 1254(2)	0.00	0	N.D. µg/mL
4) m,t AROCHLOR 1254(3)	6.48f	5163	0.023 µg/mL
5) m,t AROCHLOR 1254(4)	0.00	0	N.D. µg/mL
9) m,t AROCHLOR 1254(1) #2	5.63	831	0.014 µg/mLm
10) m,t AROCHLOR 1254(2) #2	5.70f	35656	1.352 µg/mL
11) m,t AROCHLOR 1254(3) #2	0.00	0	N.D. µg/mL
12) m,t AROCHLOR 1254(4) #2	0.00	0	N.D. µg/mL

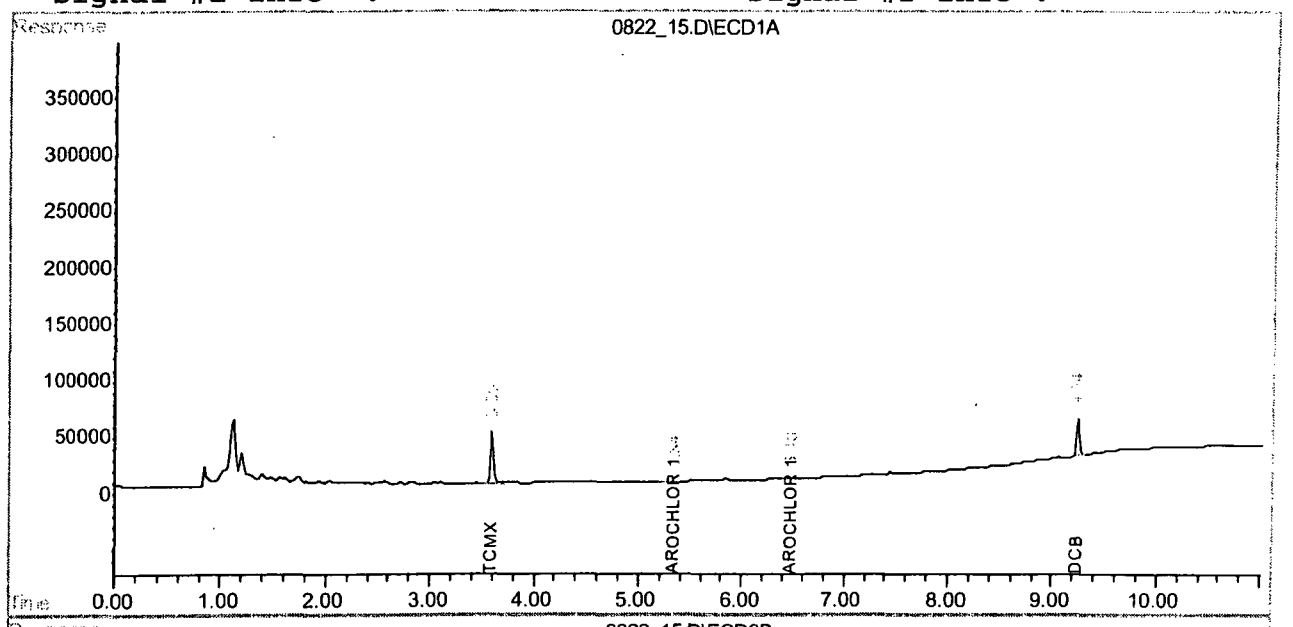
(f)=RT Delta > 1/2 Window (m)=manual int.

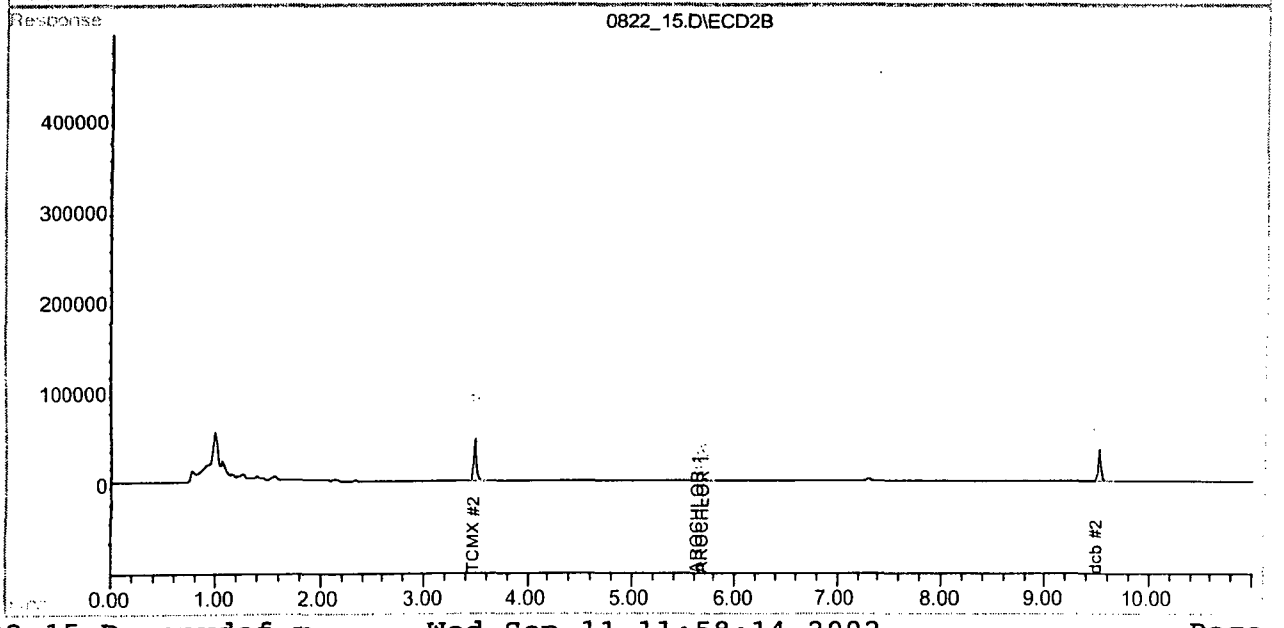
Quantitation Report (QT Reviewed)

Signal #1 : D:\DATA\SVGC#5\082202\0822_15.D\ECD1A.CH Vial: 13
Signal #2 : D:\DATA\SVGC#5\082202\0822_15.D\ECD2B.CH
Acq On : 22 Aug 2002 5:31 pm Operator: 308
Sample : L87096-05 10x WG81367 30-10 Inst : SVGC5
Misc : Multiplr: 10.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Aug 22 21:26 2002 Quant Results File: 1254L.RES

Quant Method : C:\HPCHEM\1\METHODS\1254L.M (Chemstation Integrator)
Title :
Last Update : Thu Aug 22 21:24:25 2002
Response via : Multiple Level Calibration
DataAcq Meth : PCB5.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Data File : D:\DATA\SVGC#5\082202\0822_17.D\ECD1A.CH Vial: 2
Acq On : 22 Aug 2002 6:00 pm Operator: 308
Sample : 1016/1260 .50ppm Inst : SVGC5
Misc : bs030104k30 Multiplr: 1.00
IntFile : events.e

Data File : D:\DATA\SVGC#5\082202\0822_17.D\ECD2B.CH Vial: 2
Acq On : 22 Aug 2002 6:00 pm Operator: 308
Sample : 1016/1260 .50ppm Inst : SVGC5
Misc : Multiplr: 1.00
IntFile : events2.e
Quant Time: Aug 22 22:00 2002 Quant Results File: PCB6.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB6.M (Chemstation Integrator)
Title :
Last Update : Thu Aug 22 16:37:37 2002
Response via : Initial Calibration
DataAcq Meth : PCB5.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound			R.T.	Response	Conc Units
System Monitoring Compounds					
1) s TCMX			3.59	3355411	0.092 µg/mL
Spiked Amount	0.200	Range	41 - 145	Recovery =	46.00%
10) s DCB			9.24	3069470	0.107 µg/mL
Spiked Amount	0.200	Range	39 - 137	Recovery =	53.50%
12) s TCMX #2			3.49	3340194	0.078 µg/mL
Spiked Amount	0.200	Range	41 - 145	Recovery =	39.00%#
21) s dcb #2			9.51	2788298	0.084 µg/mL
Spiked Amount	0.200	Range	39 - 137	Recovery =	42.00%
Target Compounds					
2) m,t AROCHLOR 1016(1)			4.03	482232	0.481 µg/mL
3) m,t AROCHLOR 1016(2)			4.43	822372	0.433 µg/mL
4) m,t AROCHLOR 1016(3)			5.08	689057	0.491 µg/mL
5) m,t AROCHLOR 1016(4)			5.15	460684	0.515 µg/mL
6) m,t AROCHLOR 1260(1)			6.43	335726	0.573 µg/mL
7) m,t AROCHLOR 1260(2)			6.73	939189	0.477 µg/mL
8) m,t AROCHLOR 1260(3)			7.28	1302259	0.435 µg/mL
9) m,t AROCHLOR 1260(4)			7.92	1665927	0.448 µg/mL
13) m,t AROCHLOR 1016(1) #2			4.07	413120	0.485 µg/mLm
14) m,t AROCHLOR 1016(2) #2			4.52	824706	0.432 µg/mL
15) m,t AROCHLOR 1016(3) #2			5.00	1469884	0.386 µg/mL
16) m,t AROCHLOR 1016(4) #2			5.14	650381	0.393 µg/mL
17) m,t AROCHLOR 1260(1) #2			6.58	112747	0.459 µg/mL
18) m,t AROCHLOR 1260(2) #2			6.88	1110727	0.413 µg/mL
19) m,t AROCHLOR 1260(3) #2			7.43	1732073	0.466 µg/mL
20) m,t AROCHLOR 1260(4) #2			8.03	1787965	0.417 µg/mL

(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : D:\DATA\SVGC#5\082202\0822_17.D\ECD1A.CH Vial: 2
Acq On : 22 Aug 2002 6:00 pm Operator: 308
Sample : 1016/1260 .50ppm Inst : SVGC5
Misc : bs030104k30 Multiplr: 1.00
IntFile : events.e

Data File : D:\DATA\SVGC#5\082202\0822_17.D\ECD2B.CH Vial: 2
Acq On : 22 Aug 2002 6:00 pm Operator: 308
Sample : 1016/1260 .50ppm Inst : SVGC5
Misc : Multiplr: 1.00
IntFile : events2.e
Quant Time: Aug 22 22:00 2002 Quant Results File: PCB6.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB6.M (Chemstation Integrator)
Title :
Last Update : Thu Aug 22 16:37:37 2002
Response via : Initial Calibration
DataAcq Meth : PCB5.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc Units

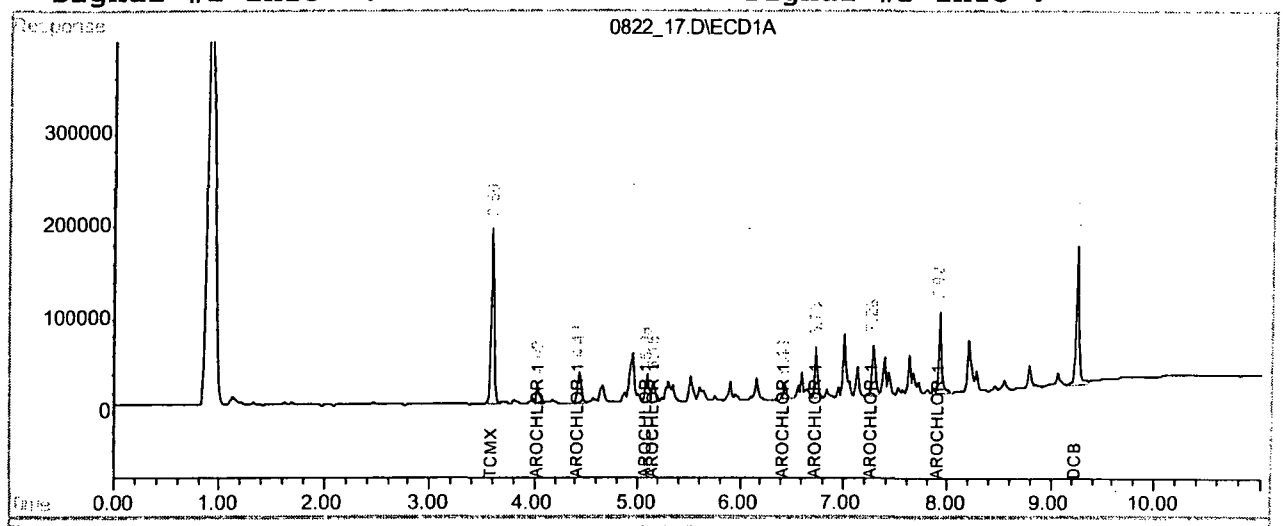
Quantitation Report (QT Reviewed)

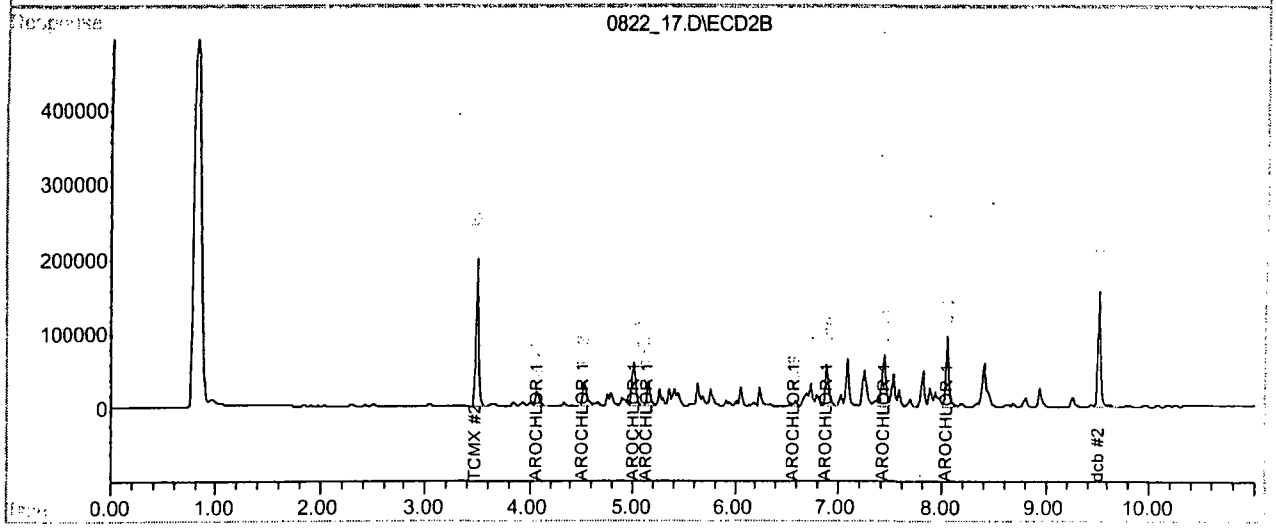
Data File : D:\DATA\SVGC#5\082202\0822_17.D\ECD1A.CH Vial: 2
Acq On : 22 Aug 2002 6:00 pm Operator: 308
Sample : 1016/1260 .50ppm Inst : SVGC5
Misc : bs030104k30 Multiplr: 1.00
IntFile : events.e

Data File : D:\DATA\SVGC#5\082202\0822_17.D\ECD2B.CH Vial: 2
Acq On : 22 Aug 2002 6:00 pm Operator: 308
Sample : 1016/1260 .50ppm Inst : SVGC5
Misc : Multiplr: 1.00
IntFile : events2.e
Quant Time: Aug 22 22:00 2002 Quant Results File: PCB6.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB6.M (Chemstation Integrator)
Title :
Last Update : Thu Aug 22 16:37:37 2002
Response via : Multiple Level Calibration
DataAcq Meth : PCB5.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Signal #1 : D:\DATA\SVGC#5\082202\0822_18.D\ECD1A.CH Vial: 15
Signal #2 : D:\DATA\SVGC#5\082202\0822_18.D\ECD2B.CH
Acq On : 22 Aug 2002 6:15 pm Operator: 308
Sample : Blank 1x WG81327 1000-10 Inst : SVGC5
Misc : surr ESC8081 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Aug 22 21:27 2002 Quant Results File: PCB6.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB6.M (Chemstation Integrator)
Title :
Last Update : Thu Aug 22 16:37:37 2002
Response via : Initial Calibration
DataAcq Meth : PCB5.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) s TCMX	3.59	5524720	0.156 µg/mL
Spiked Amount 0.200 Range 41 - 145		Recovery =	78.00%
10) s DCB	9.24	3257257	0.114 µg/mL
Spiked Amount 0.200 Range 39 - 137		Recovery =	57.00%
12) s TCMX #2	3.49	5664154	0.133 µg/mL
Spiked Amount 0.200 Range 41 - 145		Recovery =	66.50%
21) s dcb #2	9.51	3031776	0.091 µg/mL
Spiked Amount 0.200 Range 39 - 137		Recovery =	45.50%
Target Compounds			
2) m,t AROCHLOR 1016(1)	3.99	54924	0.055 µg/mL
3) m,t AROCHLOR 1016(2)	4.36f	48847	0.026 µg/mL
4) m,t AROCHLOR 1016(3)	5.02f	30831	0.022 µg/mL
5) m,t AROCHLOR 1016(4)	5.15	17103	0.019 µg/mL
6) m,t AROCHLOR 1260(1)	0.00	0	N.D. µg/mL
7) m,t AROCHLOR 1260(2)	6.70	103634	0.053 µg/mL
8) m,t AROCHLOR 1260(3)	0.00	0	N.D. µg/mL
9) m,t AROCHLOR 1260(4)	0.00	0	N.D. µg/mL
13) m,t AROCHLOR 1016(1) #2	4.05	7115	N.D. µg/mL
14) m,t AROCHLOR 1016(2) #2	4.61f	29825	N.D. µg/mL
15) m,t AROCHLOR 1016(3) #2	4.95f	24394	0.006 µg/mL
16) m,t AROCHLOR 1016(4) #2	5.12	20437	0.012 µg/mL
17) m,t AROCHLOR 1260(1) #2	6.59	9498	0.039 µg/mL
18) m,t AROCHLOR 1260(2) #2	0.00	0	N.D. µg/mL
19) m,t AROCHLOR 1260(3) #2	7.42	5014	N.D. µg/mL
20) m,t AROCHLOR 1260(4) #2	8.05	65319	0.015 µg/mL

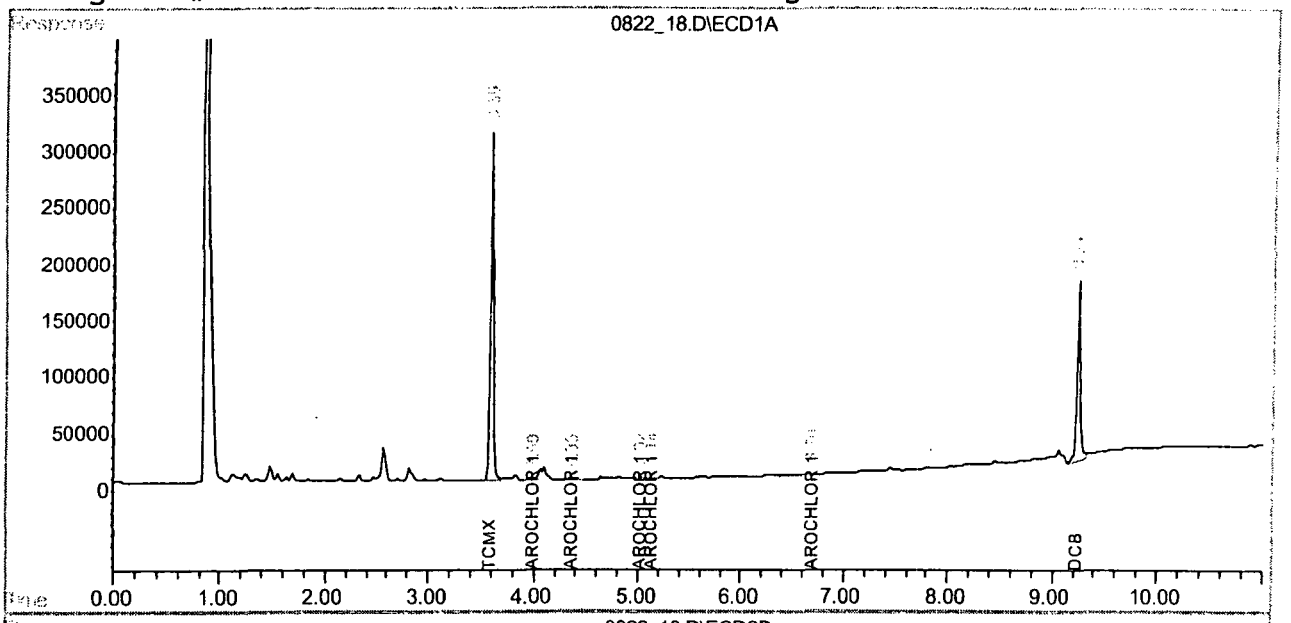
(f)=RT Delta > 1/2 Window (m)=manual int.

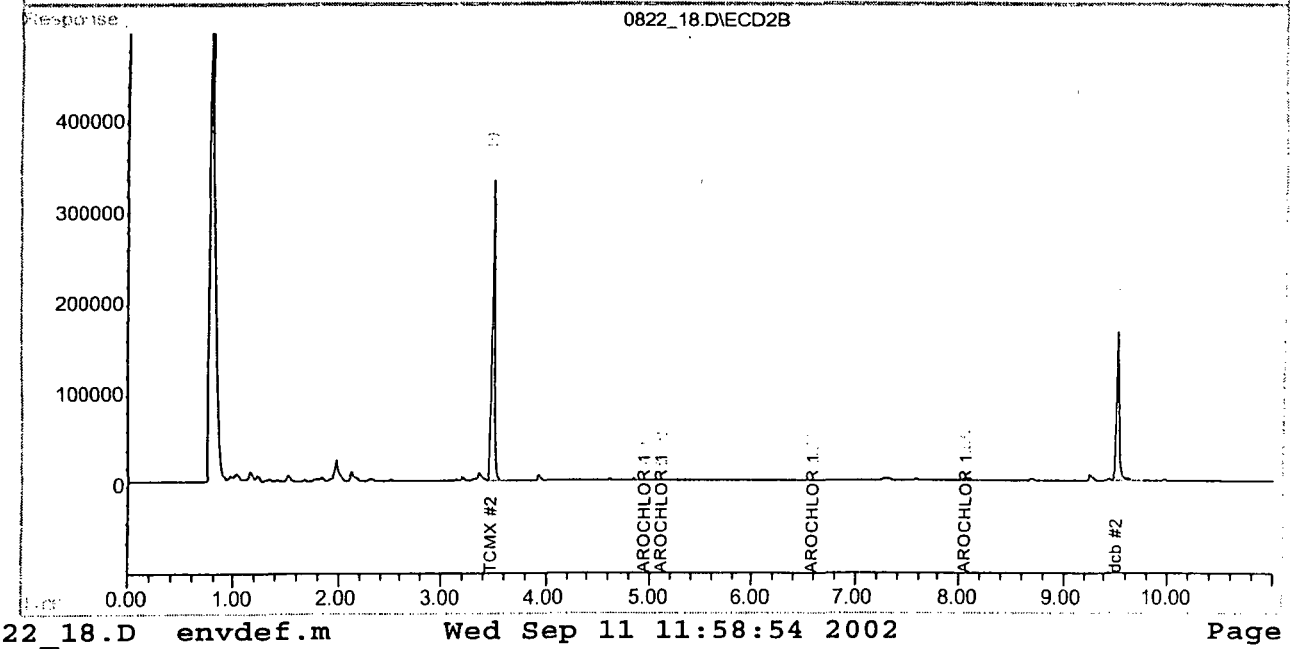
Quantitation Report (QT Reviewed)

Signal #1 : D:\DATA\SVGC#5\082202\0822_18.D\ECD1A.CH Vial: 15
Signal #2 : D:\DATA\SVGC#5\082202\0822_18.D\ECD2B.CH
Acq On : 22 Aug 2002 6:15 pm Operator: 308
Sample : Blank 1x WG81327 1000-10 Inst : SVGC5
Misc : surr ESC8081 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Aug 22 21:27 2002 Quant Results File: PCB6.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB6.M (Chemstation Integrator)
Title :
Last Update : Thu Aug 22 16:37:37 2002
Response via : Multiple Level Calibration
DataAcq Meth : PCB5.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Signal #1 : D:\DATA\SVGC#5\082202\0822_19.D\ECD1A.CH Vial: 16
Signal #2 : D:\DATA\SVGC#5\082202\0822_19.D\ECD2B.CH
Acq On : 22 Aug 2002 6:30 pm Operator: 308
Sample : LCS 1x WG81327 1000-10 Inst : SVGC5
Misc : spk ESC7719 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Aug 22 21:27 2002 Quant Results File: PCB6.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB6.M (Chemstation Integrator)
Title :
Last Update : Thu Aug 22 16:37:37 2002
Response via : Initial Calibration
DataAcq Meth : PCB5.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) s TCMX	3.59	5689588	0.161 µg/mL
Spiked Amount 0.200 Range 41 - 145	Recovery =	80.50%	
10) s DCB	9.24	3570542	0.125 µg/mL
Spiked Amount 0.200 Range 39 - 137	Recovery =	62.50%	
12) s TCMX #2	3.49	5806039	0.136 µg/mL
Spiked Amount 0.200 Range 41 - 145	Recovery =	68.00%	
21) s dcb #2	9.51	3239521	0.098 µg/mL
Spiked Amount 0.200 Range 39 - 137	Recovery =	49.00%	
Target Compounds			
2) m,t AROCHLOR 1016(1)	4.06	250332	0.250 µg/mL
3) m,t AROCHLOR 1016(2)	4.43	20020	0.011 µg/mL
4) m,t AROCHLOR 1016(3)	5.09	5582	0.004 µg/mL
5) m,t AROCHLOR 1016(4)	5.15	13191	0.015 µg/mL
6) m,t AROCHLOR 1260(1)	6.43	245609	0.419 µg/mL
7) m,t AROCHLOR 1260(2)	6.73	852259	0.433 µg/mL
8) m,t AROCHLOR 1260(3)	7.28	1275619	0.426 µg/mL
9) m,t AROCHLOR 1260(4)	7.92	1689277	0.455 µg/mL
13) m,t AROCHLOR 1016(1) #2	4.10	21245	N.D. µg/mL
14) m,t AROCHLOR 1016(2) #2	4.52	14393	N.D. µg/mL
15) m,t AROCHLOR 1016(3) #2	5.01	19539	0.005 µg/mL
16) m,t AROCHLOR 1016(4) #2	5.12	24110	0.015 µg/mL
17) m,t AROCHLOR 1260(1) #2	6.58	68315	0.278 µg/mL
18) m,t AROCHLOR 1260(2) #2	6.88	953422	0.355 µg/mL
19) m,t AROCHLOR 1260(3) #2	7.43	1430023	0.378 µg/mL
20) m,t AROCHLOR 1260(4) #2	8.03	1721408	0.401 µg/mL

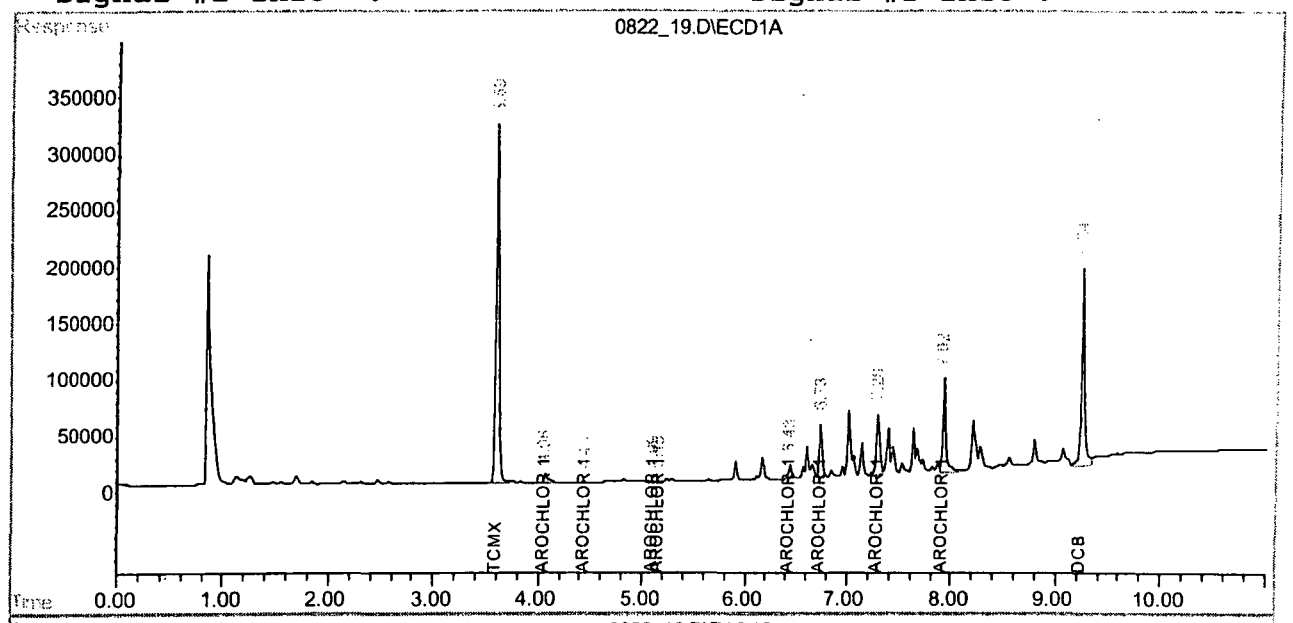
(f)=RT Delta > 1/2 Window (m)=manual int.

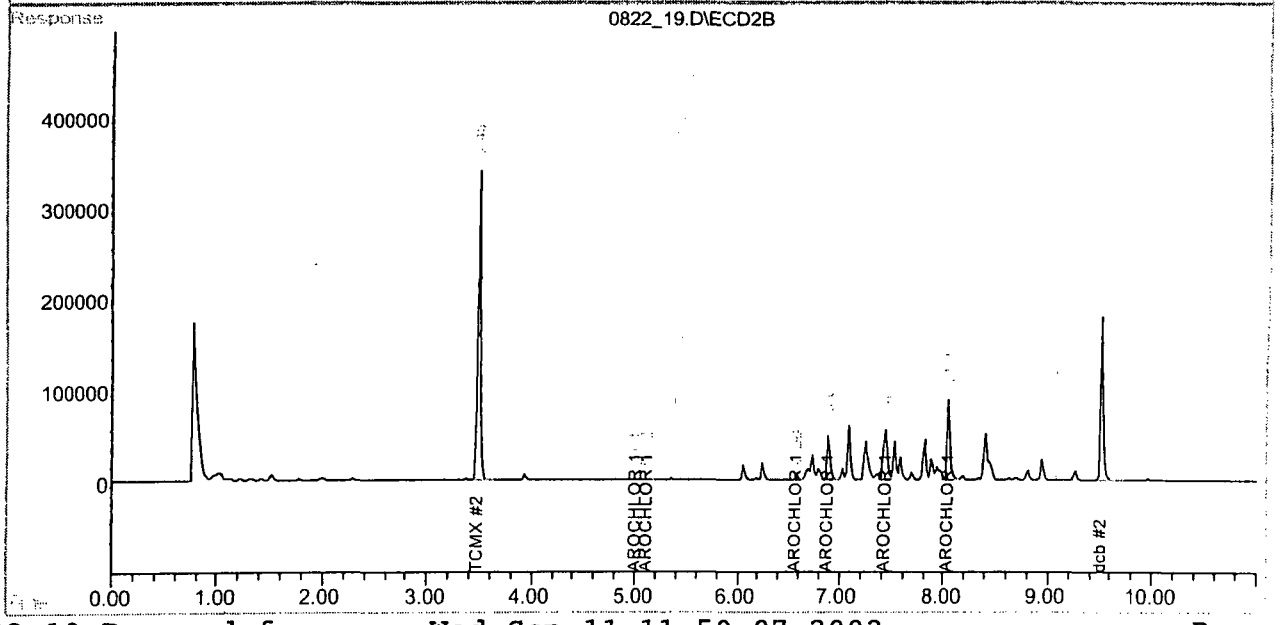
Quantitation Report (QT Reviewed)

Signal #1 : D:\DATA\SVGC#5\082202\0822_19.D\ECD1A.CH Vial: 16
Signal #2 : D:\DATA\SVGC#5\082202\0822_19.D\ECD2B.CH
Acq On : 22 Aug 2002 6:30 pm Operator: 308
Sample : LCS 1x WG81327 1000-10 Inst : SVGC5
Misc : spk ESC7719 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Aug 22 21:27 2002 Quant Results File: PCB6.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB6.M (Chemstation Integrator)
Title :
Last Update : Thu Aug 22 16:37:37 2002
Response via : Multiple Level Calibration
DataAcq Meth : PCB5.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Signal #1 : D:\DATA\SVGC#5\082202\0822_20.D\ECD1A.CH Vial: 17
Signal #2 : D:\DATA\SVGC#5\082202\0822_20.D\ECD2B.CH
Acq On : 22 Aug 2002 6:44 pm Operator: 308
Sample : LCSD 1x WG81327 1000-10 Inst : SVGC5
Misc : 8/22 GH spk ESC7719 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Aug 22 21:27 2002 Quant Results File: PCB6.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB6.M (Chemstation Integrator)
Title :
Last Update : Thu Aug 22 16:37:37 2002
Response via : Initial Calibration
DataAcq Meth : PCB5.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound				R.T.	Response		Conc Units
System Monitoring Compounds							
1) s TCMX				3.59	5555191		0.157 µg/mL
Spiked Amount	0.200	Range	41 - 145		Recovery	=	78.50%
10) s DCB				9.24	3642000		0.127 µg/mL
Spiked Amount	0.200	Range	39 - 137		Recovery	=	63.50%
12) s TCMX #2				3.49	5673303		0.133 µg/mL
Spiked Amount	0.200	Range	41 - 145		Recovery	=	66.50%
21) s dcb #2				9.51	3343201		0.101 µg/mL
Spiked Amount	0.200	Range	39 - 137		Recovery	=	50.50%
Target Compounds							
2) m,t AROCHLOR 1016(1)				4.06	207672		0.207 µg/mL
3) m,t AROCHLOR 1016(2)				4.43	19345		0.010 µg/mL
4) m,t AROCHLOR 1016(3)				5.09	5844		0.004 µg/mL
5) m,t AROCHLOR 1016(4)				5.15	12385		0.014 µg/mL
6) m,t AROCHLOR 1260(1)				6.43	249858		0.426 µg/mL
7) m,t AROCHLOR 1260(2)				6.73	881439		0.448 µg/mL
8) m,t AROCHLOR 1260(3)				7.28	1303381		0.435 µg/mL
9) m,t AROCHLOR 1260(4)				7.92	1702707		0.458 µg/mL
13) m,t AROCHLOR 1016(1) #2				4.10	20116		N.D. µg/mL
14) m,t AROCHLOR 1016(2) #2				4.52	13716		N.D. µg/mL
15) m,t AROCHLOR 1016(3) #2				5.01	14909		0.004 µg/mL
16) m,t AROCHLOR 1016(4) #2				5.12	16797		0.010 µg/mL
17) m,t AROCHLOR 1260(1) #2				6.58	69765		0.284 µg/mL
18) m,t AROCHLOR 1260(2) #2				6.88	983519		0.366 µg/mL
19) m,t AROCHLOR 1260(3) #2				7.43	1472347		0.390 µg/mL
20) m,t AROCHLOR 1260(4) #2				8.03	1757655		0.410 µg/mL

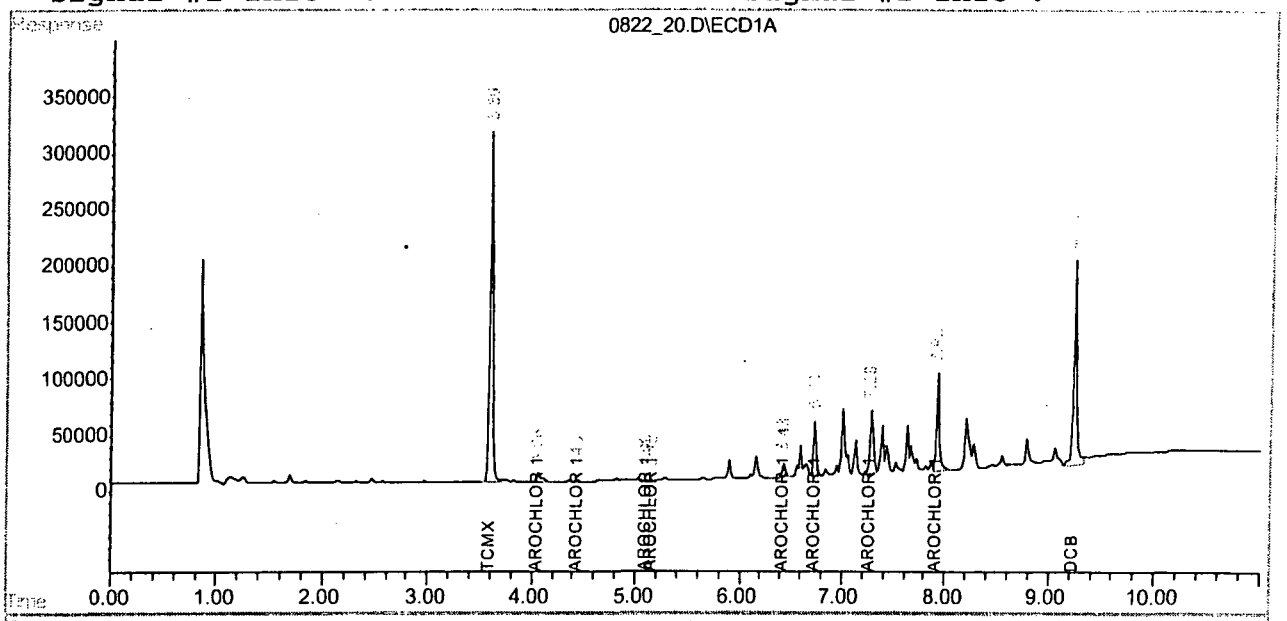
(f)=RT Delta > 1/2 Window (m)=manual int.

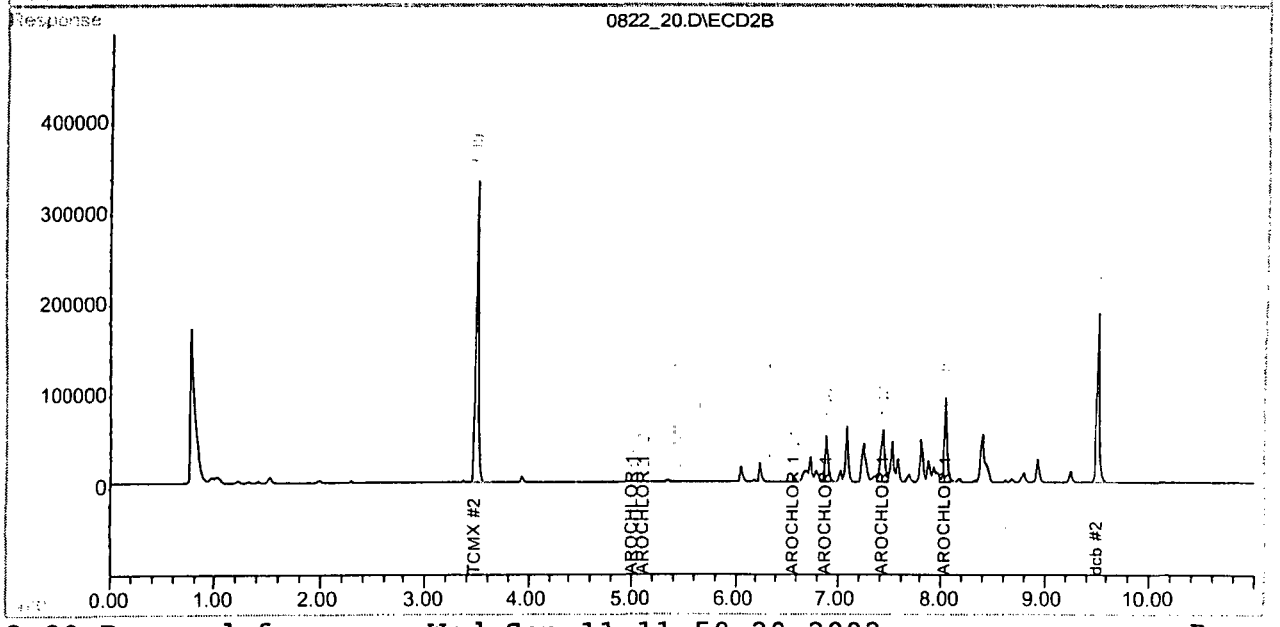
Quantitation Report (QT Reviewed)

Signal #1 : D:\DATA\SVGC#5\082202\0822_20.D\ECD1A.CH Vial: 17
Signal #2 : D:\DATA\SVGC#5\082202\0822_20.D\ECD2B.CH
Acq On : 22 Aug 2002 6:44 pm Operator: 308
Sample : LCSD 1x WG81327 1000-10 Inst : SVGC5
Misc : 8/22 GH spk ESC7719 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Aug 22 21:27 2002 Quant Results File: PCB6.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB6.M (Chemstation Integrator)
Title :
Last Update : Thu Aug 22 16:37:37 2002
Response via : Multiple Level Calibration
DataAcq Meth : PCB5.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Signal #1 : D:\DATA\SVGC#5\082202\0822_21.D\ECD1A.CH Vial: 18
Signal #2 : D:\DATA\SVGC#5\082202\0822_21.D\ECD2B.CH
Acq On : 22 Aug 2002 6:59 pm Operator: 308
Sample : L87096-01 1x WG81327 1000-10 Inst : SVGC5
Misc : Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Aug 22 21:26 2002 Quant Results File: PCB6.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB6.M (Chemstation Integrator)
Title :
Last Update : Thu Aug 22 16:37:37 2002
Response via : Initial Calibration
DataAcq Meth : PCB5.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) s TCMX	3.59	5031159	0.142 µg/mL
Spiked Amount 0.200 Range 41 - 145		Recovery =	71.00%
10) s DCB	9.24	4799927	0.168 µg/mL
Spiked Amount 0.200 Range 39 - 137		Recovery =	84.00%
12) s TCMX #2	3.49	5111986	0.120 µg/mL
Spiked Amount 0.200 Range 41 - 145		Recovery =	60.00%
21) s dcb #2	9.51	4687840	0.141 µg/mL
Spiked Amount 0.200 Range 39 - 137		Recovery =	70.50%
Target Compounds			
2) m,t AROCHLOR 1016(1)	4.00	141169	0.141 µg/mL
3) m,t AROCHLOR 1016(2)	4.44	10849	0.006 µg/mL
4) m,t AROCHLOR 1016(3)	5.09	48602	0.035 µg/mL
5) m,t AROCHLOR 1016(4)	5.15	31168	0.035 µg/mL
6) m,t AROCHLOR 1260(1)	6.44	47974	0.082 µg/mL
7) m,t AROCHLOR 1260(2)	6.74	28249	0.014 µg/mL
8) m,t AROCHLOR 1260(3)	7.28	73994	0.025 µg/mL
9) m,t AROCHLOR 1260(4)	7.93	73441	0.020 µg/mL
13) m,t AROCHLOR 1016(1) #2	4.10	28492	0.000 µg/mL
14) m,t AROCHLOR 1016(2) #2	4.61f	26163	N.D. µg/mL
15) m,t AROCHLOR 1016(3) #2	5.09f	64086	0.017 µg/mL
16) m,t AROCHLOR 1016(4) #2	5.09f	64086	0.039 µg/mL
17) m,t AROCHLOR 1260(1) #2	6.58	15625	0.064 µg/mL
18) m,t AROCHLOR 1260(2) #2	6.91	33244	0.012 µg/mL
19) m,t AROCHLOR 1260(3) #2	7.43	68059	N.D. µg/mL
20) m,t AROCHLOR 1260(4) #2	8.05	63539	0.015 µg/mL

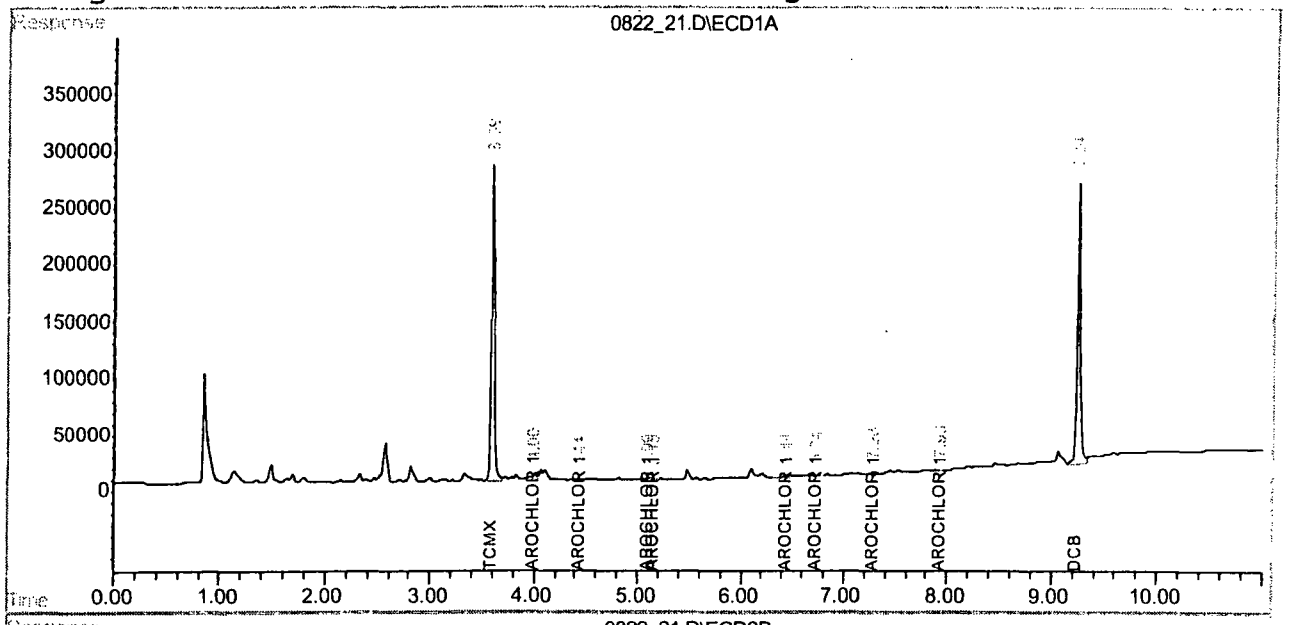
(f)=RT Delta > 1/2 Window (m)=manual int.

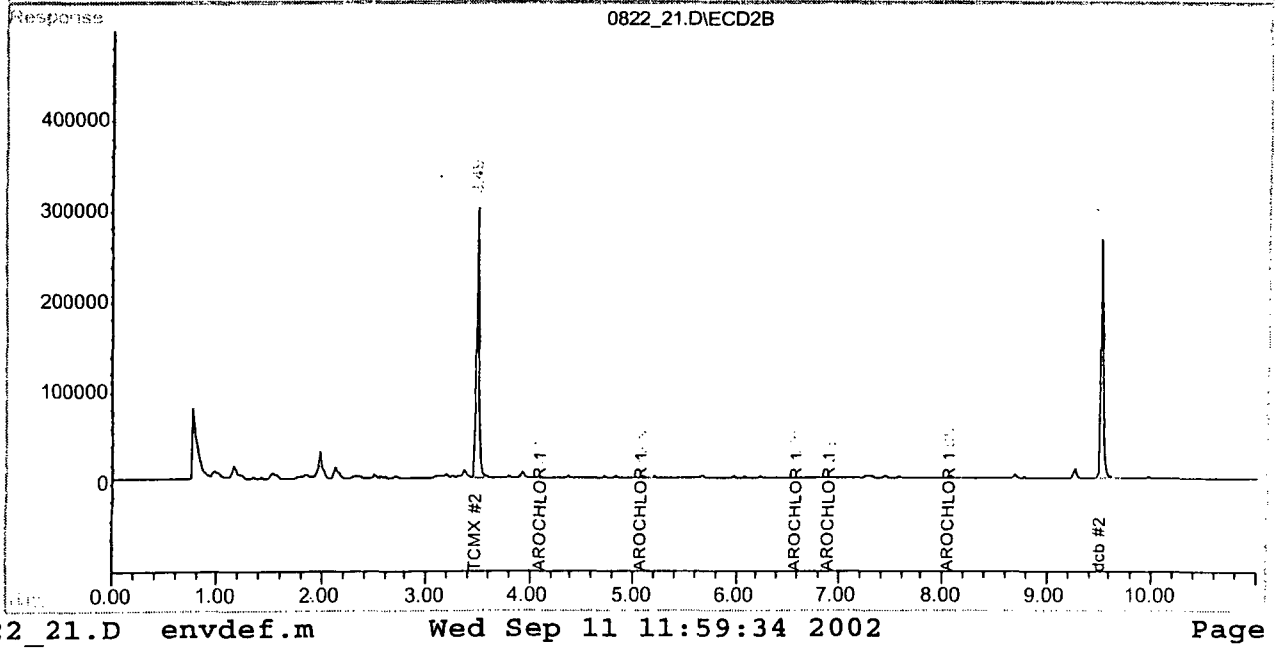
Quantitation Report (QT Reviewed)

Signal #1 : D:\DATA\SVGC#5\082202\0822_21.D\ECD1A.CH Vial: 18
Signal #2 : D:\DATA\SVGC#5\082202\0822_21.D\ECD2B.CH
Acq On : 22 Aug 2002 6:59 pm Operator: 308
Sample : L87096-01 1x WG81327 1000-10 Inst : SVGC5
Misc : Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Aug 22 21:26 2002 Quant Results File: PCB6.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB6.M (Chemstation Integrator)
Title :
Last Update : Thu Aug 22 16:37:37 2002
Response via : Multiple Level Calibration
DataAcq Meth : PCB5.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Data File : D:\DATA\SVGC#5\082202\0822_23.D\ECD1A.CH Vial: 2
Acq On : 22 Aug 2002 7:28 pm Operator: 308
Sample : 1016/1260 .50ppm Inst : SVGC5
Misc : vial empty Multiplr: 1.00
IntFile : events.e

Data File : D:\DATA\SVGC#5\082202\0822_23.D\ECD2B.CH Vial: 2
Acq On : 22 Aug 2002 7:28 pm Operator: 308
Sample : 1016/1260 .50ppm Inst : SVGC5
Misc : vial empty Multiplr: 1.00
IntFile : events2.e
Quant Time: Aug 22 21:17 2002 Quant Results File: PCB6.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB6.M (Chemstation Integrator)
Title :
Last Update : Thu Aug 22 16:37:37 2002
Response via : Initial Calibration
DataAcq Meth : PCB5.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) s TCMX	3.59	3044335	0.083 µg/mL
Spiked Amount 0.200 Range 41 - 145	Recovery =	41.50%	
10) s DCB	9.24	2560151	0.089 µg/mL
Spiked Amount 0.200 Range 39 - 137	Recovery =	44.50%	
12) s TCMX #2	3.49	3000924	0.070 µg/mL
Spiked Amount 0.200 Range 41 - 145	Recovery =	35.00%#	
21) s dcb #2	9.51	2349780	0.071 µg/mL
Spiked Amount 0.200 Range 39 - 137	Recovery =	35.50%#	
Target Compounds			
2) m,t AROCHLOR 1016(1)	4.03	443083	0.442 µg/mL
3) m,t AROCHLOR 1016(2)	4.43	755821	0.398 µg/mL
4) m,t AROCHLOR 1016(3)	5.09	630364	0.449 µg/mL
5) m,t AROCHLOR 1016(4)	5.15	427960	0.478 µg/mL
6) m,t AROCHLOR 1260(1)	6.43	287090	0.490 µg/mL
7) m,t AROCHLOR 1260(2)	6.73	837603	0.426 µg/mL
8) m,t AROCHLOR 1260(3)	7.28	1134388	0.379 µg/mL
9) m,t AROCHLOR 1260(4)	7.92	1459446	0.393 µg/mL
13) m,t AROCHLOR 1016(1) #2	4.07	342980	0.397 µg/mL
14) m,t AROCHLOR 1016(2) #2	4.52	742104	0.384 µg/mL
15) m,t AROCHLOR 1016(3) #2	5.00	1311870	0.345 µg/mL
16) m,t AROCHLOR 1016(4) #2	5.15	580369	0.350 µg/mL
17) m,t AROCHLOR 1260(1) #2	6.58	98325	0.400 µg/mL
18) m,t AROCHLOR 1260(2) #2	6.88	975663	0.363 µg/mL
19) m,t AROCHLOR 1260(3) #2	7.43	1502622	0.399 µg/mL
20) m,t AROCHLOR 1260(4) #2	8.03	1535345	0.358 µg/mL

(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : D:\DATA\SVGC#5\082202\0822_23.D\ECD1A.CH Vial: 2
Acq On : 22 Aug 2002 7:28 pm Operator: 308
Sample : 1016/1260 .50ppm Inst : SVGC5
Misc : vial empty Multiplr: 1.00
IntFile : events.e

Data File : D:\DATA\SVGC#5\082202\0822_23.D\ECD2B.CH Vial: 2
Acq On : 22 Aug 2002 7:28 pm Operator: 308
Sample : 1016/1260 .50ppm Inst : SVGC5
Misc : vial empty Multiplr: 1.00
IntFile : events2.e
Quant Time: Aug 22 21:17 2002 Quant Results File: PCB6.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB6.M (Chemstation Integrator)
Title :
Last Update : Thu Aug 22 16:37:37 2002
Response via : Initial Calibration
DataAcq Meth : PCB5.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc Units

(f)=RT Delta > 1/2 Window (m)=manual int.

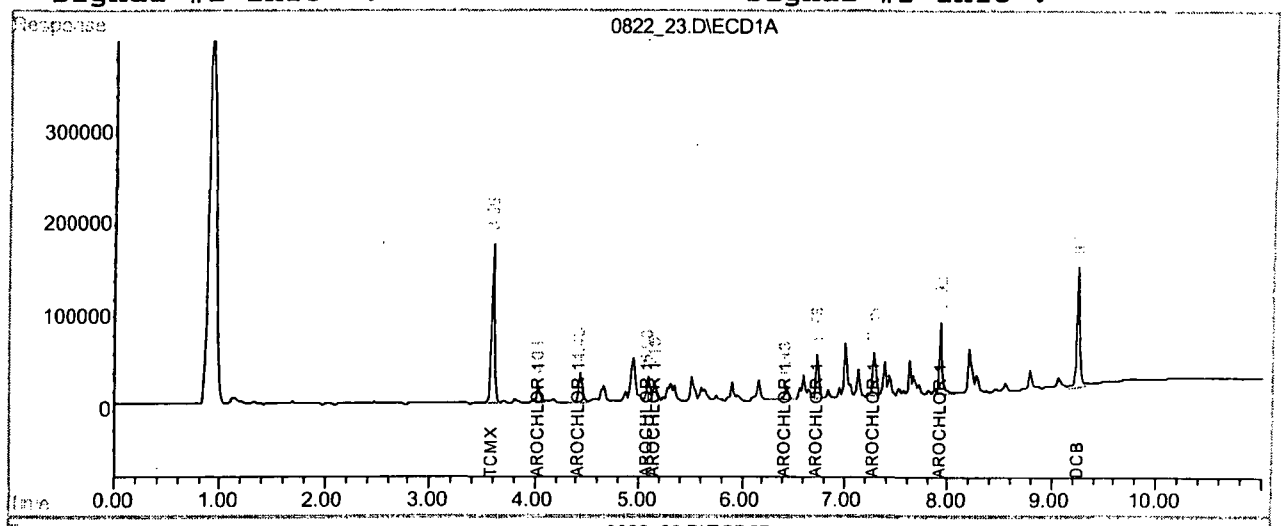
Quantitation Report (QT Reviewed)

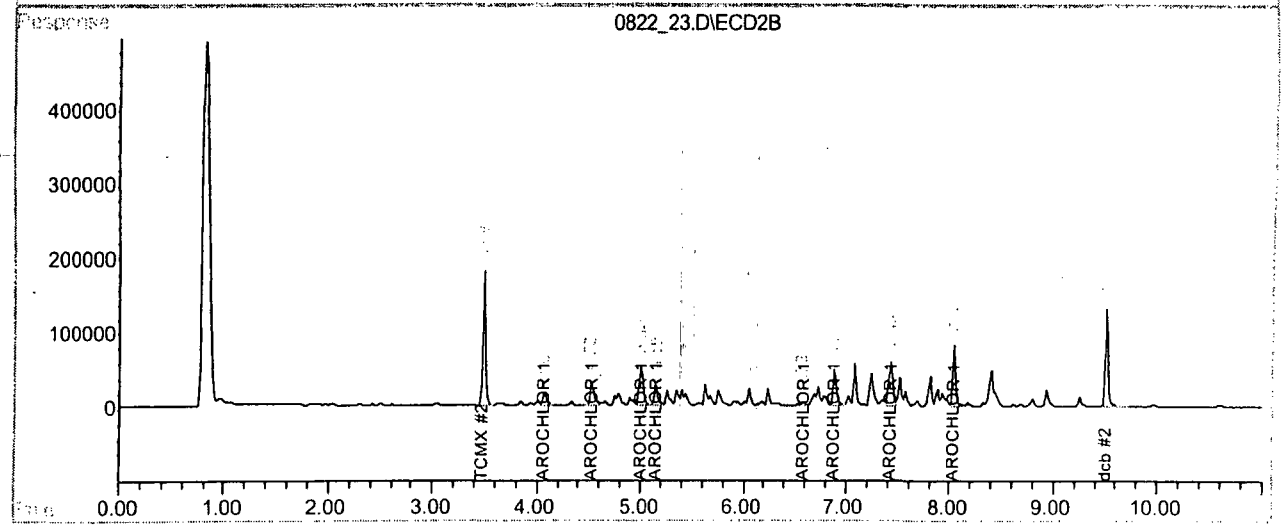
Data File : D:\DATA\SVGC#5\082202\0822_23.D\ECD1A.CH Vial: 2
Acq On : 22 Aug 2002 7:28 pm Operator: 308
Sample : 1016/1260 .50ppm Inst : SVGC5
Misc : vial empty Multiplr: 1.00
IntFile : events.e

Data File : D:\DATA\SVGC#5\082202\0822_23.D\ECD2B.CH Vial: 2
Acq On : 22 Aug 2002 7:28 pm Operator: 308
Sample : 1016/1260 .50ppm Inst : SVGC5
Misc : vial empty Multiplr: 1.00
IntFile : events2.e
Quant Time: Aug 22 21:17 2002 Quant Results File: PCB6.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB6.M (Chemstation Integrator)
Title :
Last Update : Thu Aug 22 16:37:37 2002
Response via : Multiple Level Calibration
DataAcq Meth : PCB5.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Data File : D:\DATA\SVGC#5\082202\0822_24.D\ECD1A.CH Vial: 19
Acq On : 22 Aug 2002 7:43 pm Operator: 308
Sample : MS 1x WG81367 L87096-02 30-10 Inst : SVGC5
Misc : Multiplr: 1.00
IntFile : events.e

Data File : D:\DATA\SVGC#5\082202\0822_24.D\ECD2B.CH Vial: 19
Acq On : 22 Aug 2002 7:43 pm Operator: 308
Sample : MS 10x WG81367 L87096-02 30-10 Inst : SVGC5
Misc : Multiplr: 1.00
IntFile : events2.e
Quant Time: Aug 22 21:29 2002 Quant Results File: PCB6.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB6.M (Chemstation Integrator)
Title :
Last Update : Thu Aug 22 16:37:37 2002
Response via : Initial Calibration
DataAcq Meth : PCB5.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) s TCMX	3.59	5112899	0.144 µg/mL
Spiked Amount 0.200 Range 41 - 145		Recovery =	72.00%
10) s DCB	9.24	4713903	0.165 µg/mL
Spiked Amount 0.200 Range 39 - 137		Recovery =	82.50%
12) s TCMX #2	3.49	5337699	0.125 µg/mL
Spiked Amount 0.200 Range 41 - 145		Recovery =	62.50%
21) s dcb #2	9.51	4855949	0.146 µg/mL
Spiked Amount 0.200 Range 39 - 137		Recovery =	73.00%
Target Compounds			
2) m,t AROCHLOR 1016(1)	4.00	189966	0.190 µg/mL
3) m,t AROCHLOR 1016(2)	4.43	128500	0.068 µg/mL
4) m,t AROCHLOR 1016(3)	5.11	94648	0.067 µg/mL
5) m,t AROCHLOR 1016(4)	5.15	63322	0.071 µg/mL
6) m,t AROCHLOR 1260(1)	6.43	994153	1.697 µg/mL
7) m,t AROCHLOR 1260(2)	6.73	1478608	0.752 µg/mL
8) m,t AROCHLOR 1260(3)	7.28	2463299	0.822 µg/mL
9) m,t AROCHLOR 1260(4)	7.92	1964385	0.529 µg/mL
13) m,t AROCHLOR 1016(1) #2	4.06	81255	0.067 µg/mL
14) m,t AROCHLOR 1016(2) #2	4.52	122956	0.030 µg/mL
15) m,t AROCHLOR 1016(3) #2	5.01	146284	0.038 µg/mL
16) m,t AROCHLOR 1016(4) #2	5.14	177078	0.107 µg/mL
17) m,t AROCHLOR 1260(1) #2	6.58	845735	3.442 µg/mL
18) m,t AROCHLOR 1260(2) #2	6.88	1419689	0.528 µg/mL
19) m,t AROCHLOR 1260(3) #2	7.43	2790360	0.774 µg/mL
20) m,t AROCHLOR 1260(4) #2	8.03	2174774	0.507 µg/mL

(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : D:\DATA\SVGC#5\082202\0822_24.D\ECD1A.CH Vial: 19
Acq On : 22 Aug 2002 7:43 pm Operator: 308
Sample : MS 1x WG81367 L87096-02 30-10 Inst : SVGC5
Misc : Multiplr: 1.00
IntFile : events.e

Data File : D:\DATA\SVGC#5\082202\0822_24.D\ECD2B.CH Vial: 19
Acq On : 22 Aug 2002 7:43 pm Operator: 308
Sample : MS 10x WG81367 L87096-02 30-10 Inst : SVGC5
Misc : Multiplr: 1.00
IntFile : events2.e
Quant Time: Aug 22 21:29 2002 Quant Results File: PCB6.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB6.M (Chemstation Integrator)
Title :
Last Update : Thu Aug 22 16:37:37 2002
Response via : Initial Calibration
DataAcq Meth : PCB5.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc Units

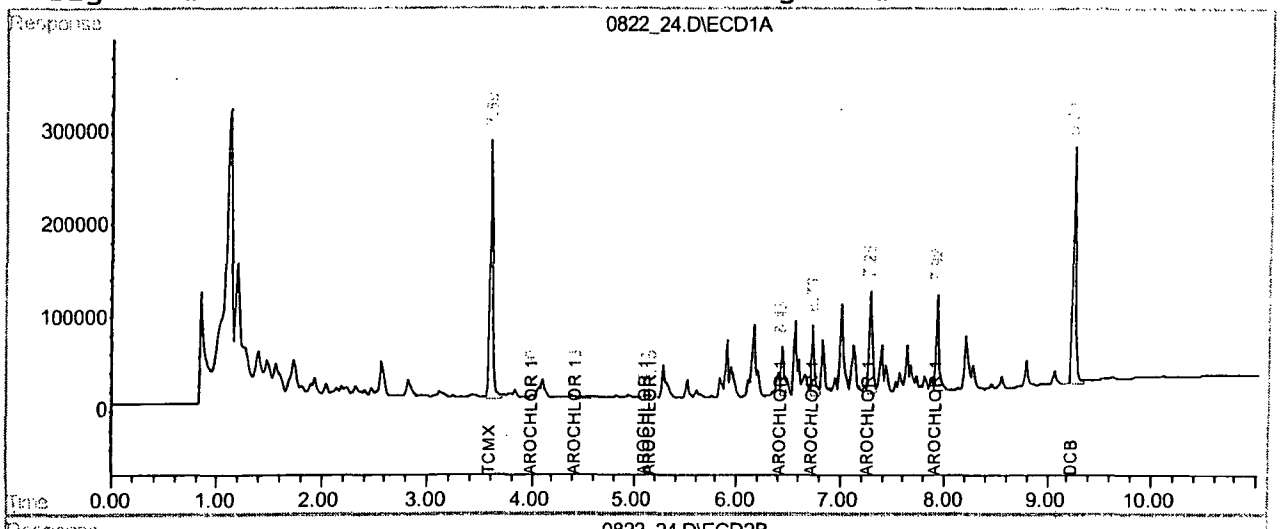
Quantitation Report (QT Reviewed)

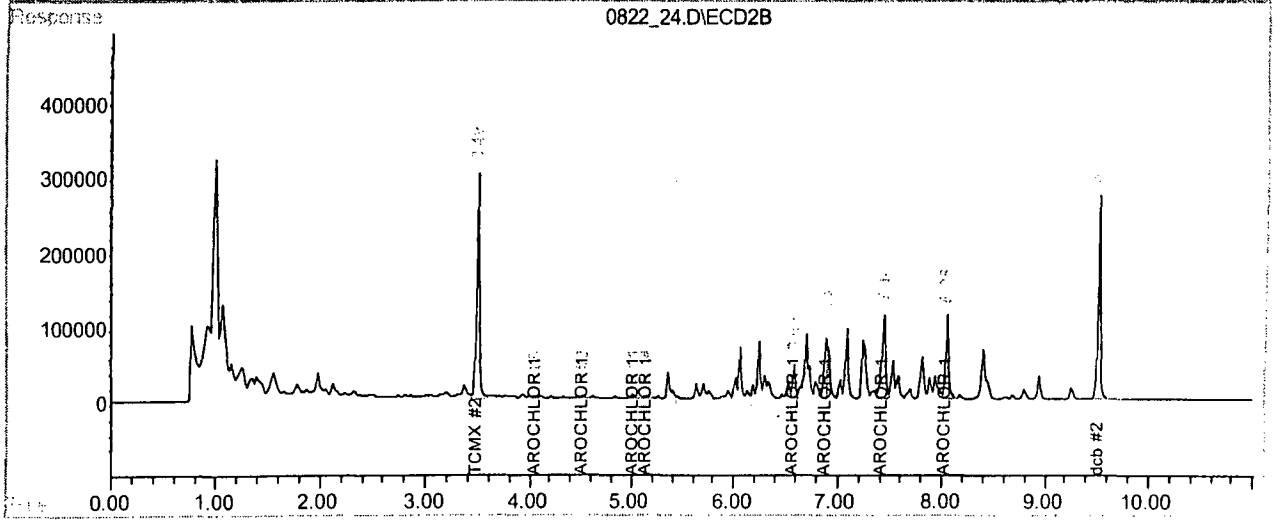
Data File : D:\DATA\SVGC#5\082202\0822_24.D\ECD1A.CH Vial: 19
Acq On : 22 Aug 2002 7:43 pm Operator: 308
Sample : MS 1x WG81367 L87096-02 30-10 Inst : SVGC5
Misc : Multiplr: 1.00
IntFile : events.e

Data File : D:\DATA\SVGC#5\082202\0822_24.D\ECD2B.CH Vial: 19
Acq On : 22 Aug 2002 7:43 pm Operator: 308
Sample : MS 10x WG81367 L87096-02 30-10 Inst : SVGC5
Misc : Multiplr: 1.00
IntFile : events2.e
Quant Time: Aug 22 21:29 2002 Quant Results File: PCB6.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB6.M (Chemstation Integrator)
Title :
Last Update : Thu Aug 22 16:37:37 2002
Response via : Multiple Level Calibration
DataAcq Meth : PCB5.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Signal #1 : D:\DATA\SVGC#5\082202\0822_25.D\ECD1A.CH Vial: 20
Signal #2 : D:\DATA\SVGC#5\082202\0822_25.D\ECD2B.CH
Acq On : 22 Aug 2002 7:58 pm Operator: 308
Sample : MSD 1x WG81367 L87096-02 30-10 Inst : SVGC5
Misc : Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Aug 22 21:31 2002 Quant Results File: PCB6.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB6.M (Chemstation Integrator)
Title :
Last Update : Thu Aug 22 16:37:37 2002
Response via : Initial Calibration
DataAcq Meth : PCB5.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

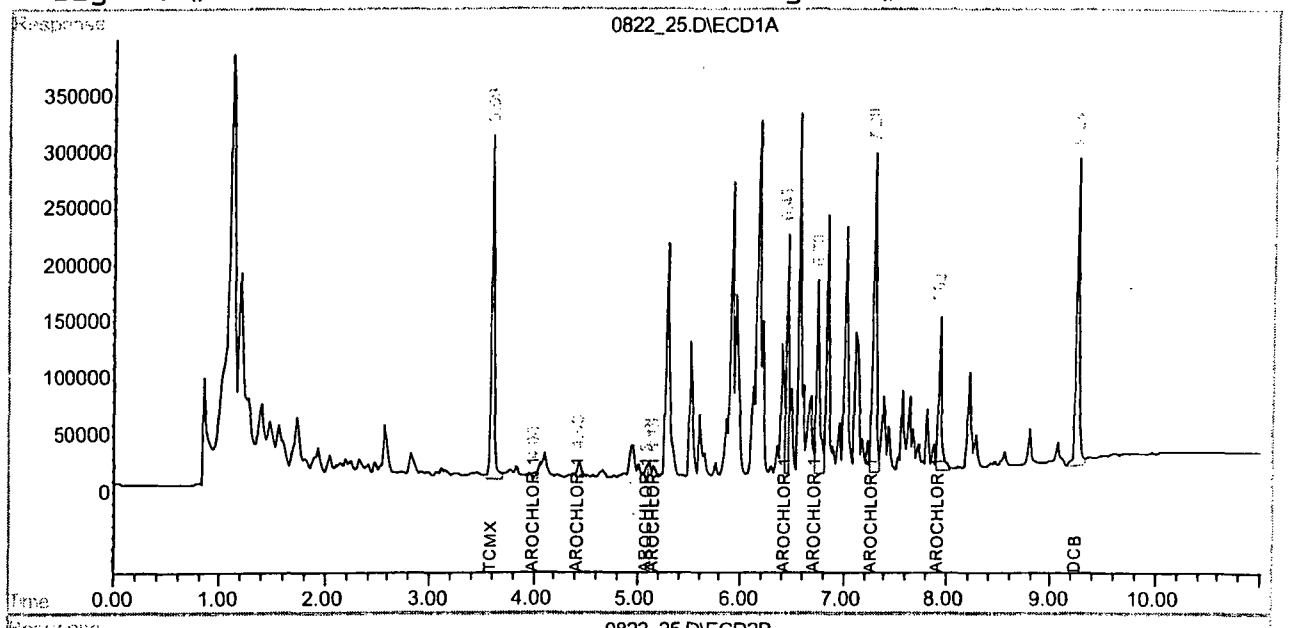
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) s TCMX	3.59	5564444	0.157 µg/mL
Spiked Amount 0.200 Range 41 - 145		Recovery =	78.50%
10) s DCB	9.24	5168927	0.181 µg/mL
Spiked Amount 0.200 Range 39 - 137		Recovery =	90.50%
12) s TCMX #2	3.49	5853039	0.137 µg/mL
Spiked Amount 0.200 Range 41 - 145		Recovery =	68.50%
21) s dcb #2	9.51	4946624	0.149 µg/mL
Spiked Amount 0.200 Range 39 - 137		Recovery =	74.50%
Target Compounds			
2) m,t AROCHLOR 1016(1)	4.00	136017	0.136 µg/mL
3) m,t AROCHLOR 1016(2)	4.43	442897	0.233 µg/mL
4) m,t AROCHLOR 1016(3)	5.09	177785	0.127 µg/mL
5) m,t AROCHLOR 1016(4)	5.15	199158	0.223 µg/mL
6) m,t AROCHLOR 1260(1)	6.43	3751853	6.404 µg/mL
7) m,t AROCHLOR 1260(2)	6.73	3631018	1.846 µg/mL
8) m,t AROCHLOR 1260(3)	7.28	6131468	2.046 µg/mL
9) m,t AROCHLOR 1260(4)	7.92	2567127	0.691 µg/mL
13) m,t AROCHLOR 1016(1) #2	4.07	128944	0.127 µg/mL
14) m,t AROCHLOR 1016(2) #2	4.52	478458	0.233 µg/mL
15) m,t AROCHLOR 1016(3) #2	5.00	927180	0.244 µg/mL
16) m,t AROCHLOR 1016(4) #2	5.14	468117	0.283 µg/mL
17) m,t AROCHLOR 1260(1) #2	6.58	3721120	15.143 µg/mL
18) m,t AROCHLOR 1260(2) #2	6.88	3380379	1.258 µg/mL
19) m,t AROCHLOR 1260(3) #2	7.43	6992094	1.999 µg/mL
20) m,t AROCHLOR 1260(4) #2	8.03	2888280	0.674 µg/mL

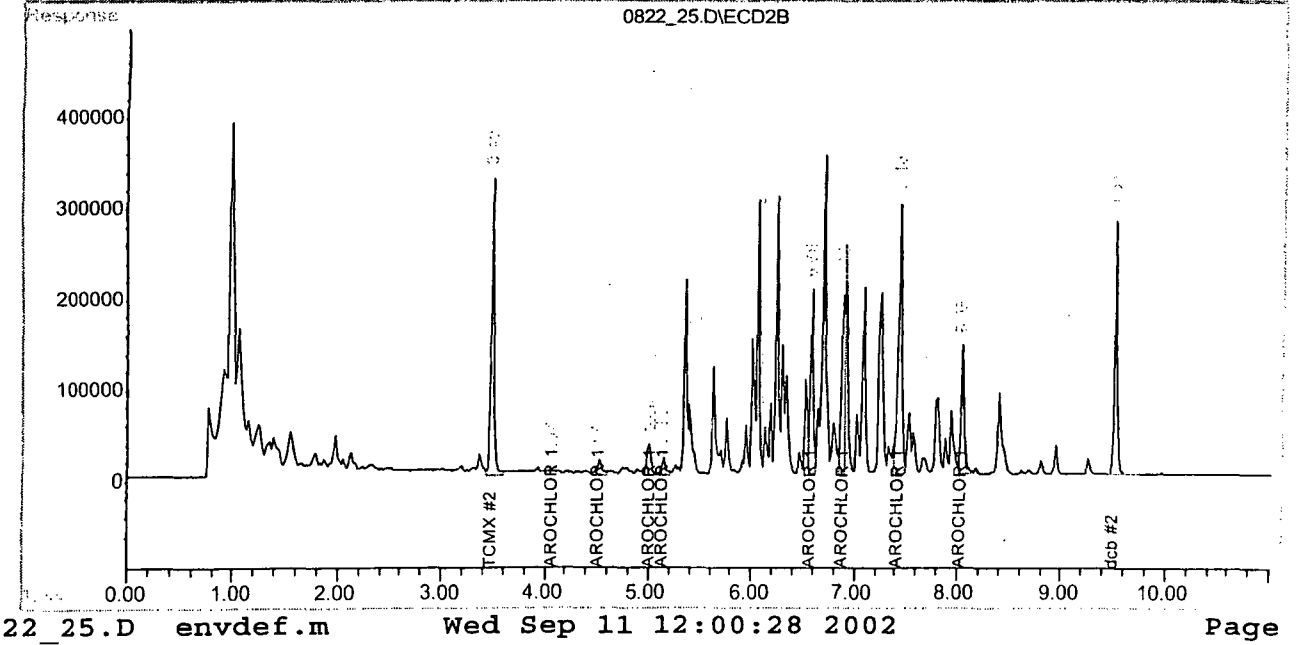
Quantitation Report (QT Reviewed)

Signal #1 : D:\DATA\SVGC#5\082202\0822_25.D\ECD1A.CH Vial: 20
Signal #2 : D:\DATA\SVGC#5\082202\0822_25.D\ECD2B.CH
Acq On : 22 Aug 2002 7:58 pm Operator: 308
Sample : MSD 1x WG81367 L87096-02 30-10 Inst : SVGC5
Misc : Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Aug 22 21:31 2002 Quant Results File: PCB6.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB6.M (Chemstation Integrator)
Title :
Last Update : Thu Aug 22 16:37:37 2002
Response via : Multiple Level Calibration
DataAcq Meth : PCB5.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





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Quantitation Report (QT Reviewed)

Signal #1 : D:\DATA\SVGC#5\082202\0822_27.D\ECD1A.CH Vial: 2
Signal #2 : D:\DATA\SVGC#5\082202\0822_27.D\ECD2B.CH
Acq On : 22 Aug 2002 10:02 pm Operator: 308
Sample : 1016/1260 1.0ppm Inst : SVGC5
Misc : Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Aug 22 22:28 2002 Quant Results File: PCB6.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB6.M (Chemstation Integrator)
Title :
Last Update : Thu Aug 22 16:37:37 2002
Response via : Initial Calibration
DataAcq Meth : PCB5.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

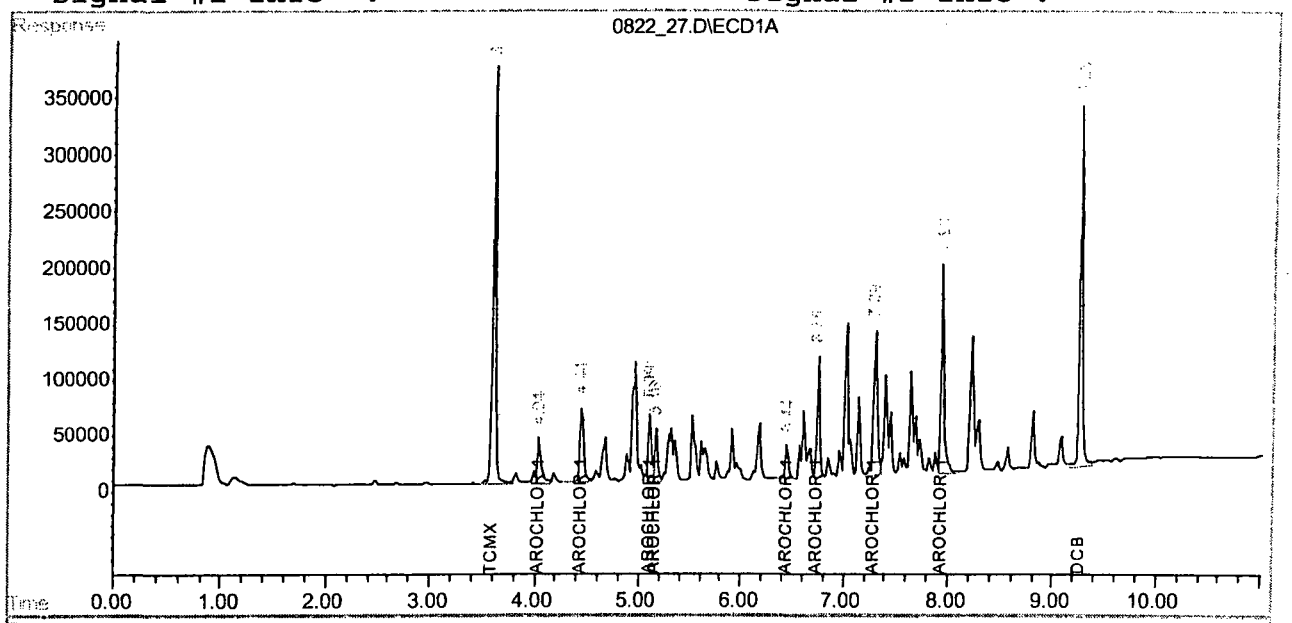
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) s TCMX	3.60	6825537	0.194 µg/mL
Spiked Amount 0.200 Range 41 - 145		Recovery =	97.00%
10) s DCB	9.26	5971685	0.209 µg/mL
Spiked Amount 0.200 Range 39 - 137		Recovery =	104.50%
12) s TCMX #2	3.50	7132381	0.167 µg/mL
Spiked Amount 0.200 Range 41 - 145		Recovery =	83.50%
21) s dcb #2	9.52	5922385	0.178 µg/mL
Spiked Amount 0.200 Range 39 - 137		Recovery =	89.00%
Target Compounds			
2) m,t AROCHLOR 1016(1)	4.04	981951	0.980 µg/mL
3) m,t AROCHLOR 1016(2)	4.44	1698084	0.893 µg/mL
4) m,t AROCHLOR 1016(3)	5.10	1381441	0.984 µg/mL
5) m,t AROCHLOR 1016(4)	5.16	912140	1.019 µg/mL
6) m,t AROCHLOR 1260(1)	6.44	642971	1.097 µg/mL
7) m,t AROCHLOR 1260(2)	6.75	1907506	0.970 µg/mL
8) m,t AROCHLOR 1260(3)	7.29	3296375	1.100 µg/mL
9) m,t AROCHLOR 1260(4)	7.94	3579553	0.964 µg/mL
13) m,t AROCHLOR 1016(1) #2	4.08	797089	0.969 µg/mL
14) m,t AROCHLOR 1016(2) #2	4.53	1714542	0.941 µg/mL
15) m,t AROCHLOR 1016(3) #2	5.02	3103537	0.816 µg/mL
16) m,t AROCHLOR 1016(4) #2	5.16	1349208	0.814 µg/mL
17) m,t AROCHLOR 1260(1) #2	6.59	215880	0.879 µg/mL
18) m,t AROCHLOR 1260(2) #2	6.89	2231479	0.830 µg/mL
19) m,t AROCHLOR 1260(3) #2	7.44	3563709	1.000 µg/mL
20) m,t AROCHLOR 1260(4) #2	8.05	3768308	0.879 µg/mL

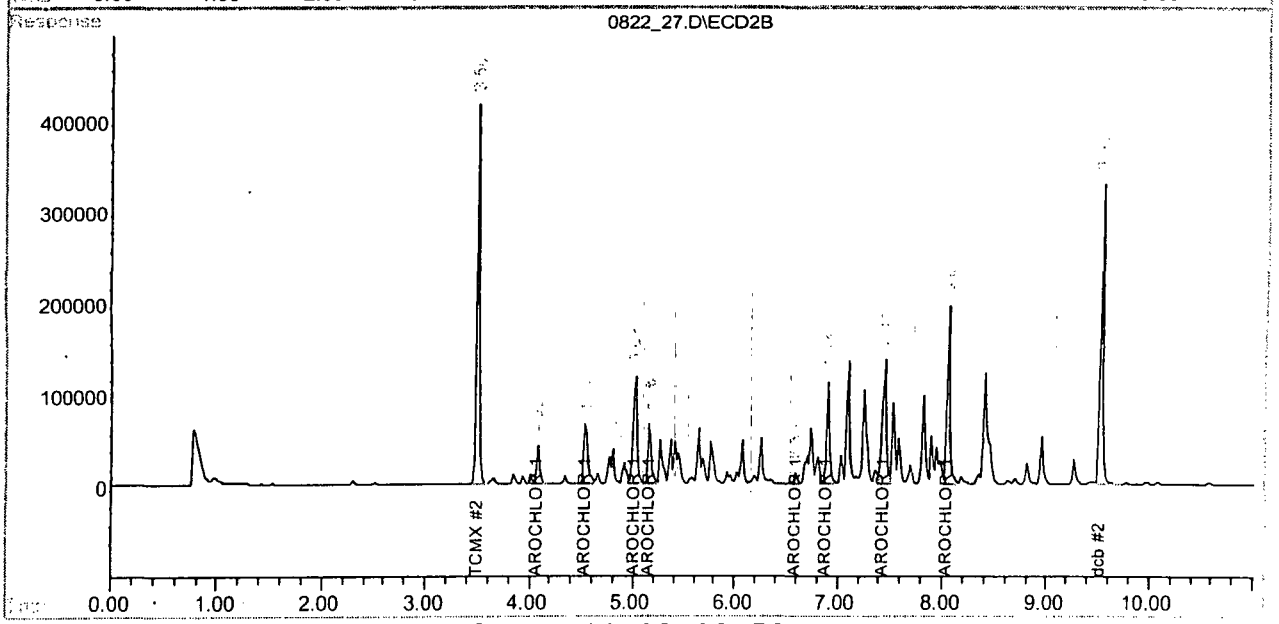
Quantitation Report (QT Reviewed)

Signal #1 : D:\DATA\SVGC#5\082202\0822_27.D\ECD1A.CH Vial: 2
Signal #2 : D:\DATA\SVGC#5\082202\0822_27.D\ECD2B.CH
Acq On : 22 Aug 2002 10:02 pm Operator: 308
Sample : 1016/1260 1.0ppm Inst : SVGC5
Misc : Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Aug 22 22:28 2002 Quant Results File: PCB6.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB6.M (Chemstation Integrator)
Title :
Last Update : Thu Aug 22 16:37:37 2002
Response via : Multiple Level Calibration
DataAcq Meth : PCB5.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Calibration Standards

Response Factor Report SVGC5

Method : C:\HPCHEM\1\METHODS\PCB6.M (Chemstation Integrator)
Title :
Last Update : Thu Aug 22 15:46:06 2002

8/22/02 KK
ICS 8/22/02

Calibration Files
1 =0822_02A.D 2 =0822_03.D 3 =0822_04.D
4 =0822_05.D 5 =0822_06.D 6 =0822_07.D

		Compound	1	2	3	4	5	6	Avg		%RSD
1)	s	TCMX	5.351	4.918	4.027	3.212	3.696	3.505	4.118	E7	20.44
2)	m,t	AROCHLOR 1016(1)	1.068	1.138	0.993	0.907	0.964	0.942	1.002	E6	8.58
3)	m,t	AROCHLOR 1016(2)	2.485	1.995	1.824	1.613	1.757	1.730	1.901	E6	16.45
4)	m,t	AROCHLOR 1016(3)	1.440	1.515	1.452	1.266	1.420	1.328	1.404	E6	6.45
5)	m,t	AROCHLOR 1016(4)	9.141	9.156	8.989	8.392	9.202	8.811	8.948	E5	3.44
6)	m,t	AROCHLOR 1260(1)	6.207	5.433	5.297	6.539	5.968	5.708	5.859	E5	8.06
7)	m,t	AROCHLOR 1260(2)	2.533	2.057	1.919	1.639	1.881	1.775	1.967	E6	15.80
8)	m,t	AROCHLOR 1260(3)	3.206	3.447	3.030	2.423	3.026	2.849	2.997	E6	11.55
9)	m,t	AROCHLOR 1260(4)	4.434	3.705	4.060	3.379	3.504	3.206	3.715	E6	12.35
10)	s	DCB	3.332	3.051	2.946	2.440	2.596	2.806	2.862	E7	11.22

Signal #2 Calibration Files
1 =0822_02A.D 2 =0822_03.D 3 =0822_04.D
4 =0822_05.D 5 =0822_06.D 6 =0822_07.D

		Compound	1	2	3	4	5	6	Avg		%RSD
1)	s	TCMX	5.300	4.900	4.360	3.395	3.938	3.674	4.261	E7	17.23
2)	m,t	AROCHLOR 1016(1)	1.275	1.131	0.983	0.763	0.867	0.818	0.973	E6	20.32
3)	m,t	AROCHLOR 1016(2)	2.934	2.611	2.232	1.659	1.934	1.809	2.197	E6	22.54
4)	m,t	AROCHLOR 1016(3)	4.897	4.429	3.873	2.985	3.430	3.213	3.804	E6	19.49
5)	m,t	AROCHLOR 1016(4)	2.148	1.908	1.683	1.302	1.498	1.400	1.657	E6	19.51
6)	m,t	AROCHLOR 1260(1)	3.135	2.562	2.362	2.199	2.340	2.145	2.457	E5	14.75
7)	m,t	AROCHLOR 1260(2)	3.480	3.123	2.688	2.166	2.436	2.228	2.687	E6	19.44
8)	m,t	AROCHLOR 1260(3)	5.687	4.922	4.245	3.387	3.756	3.541	4.256	E6	21.04
9)	m,t	AROCHLOR 1260(4)	5.525	4.906	4.276	3.415	3.894	3.710	4.288	E6	18.55
10)	s	dcb	4.328	3.832	3.104	2.678	3.080	2.888	3.318	E7	18.96

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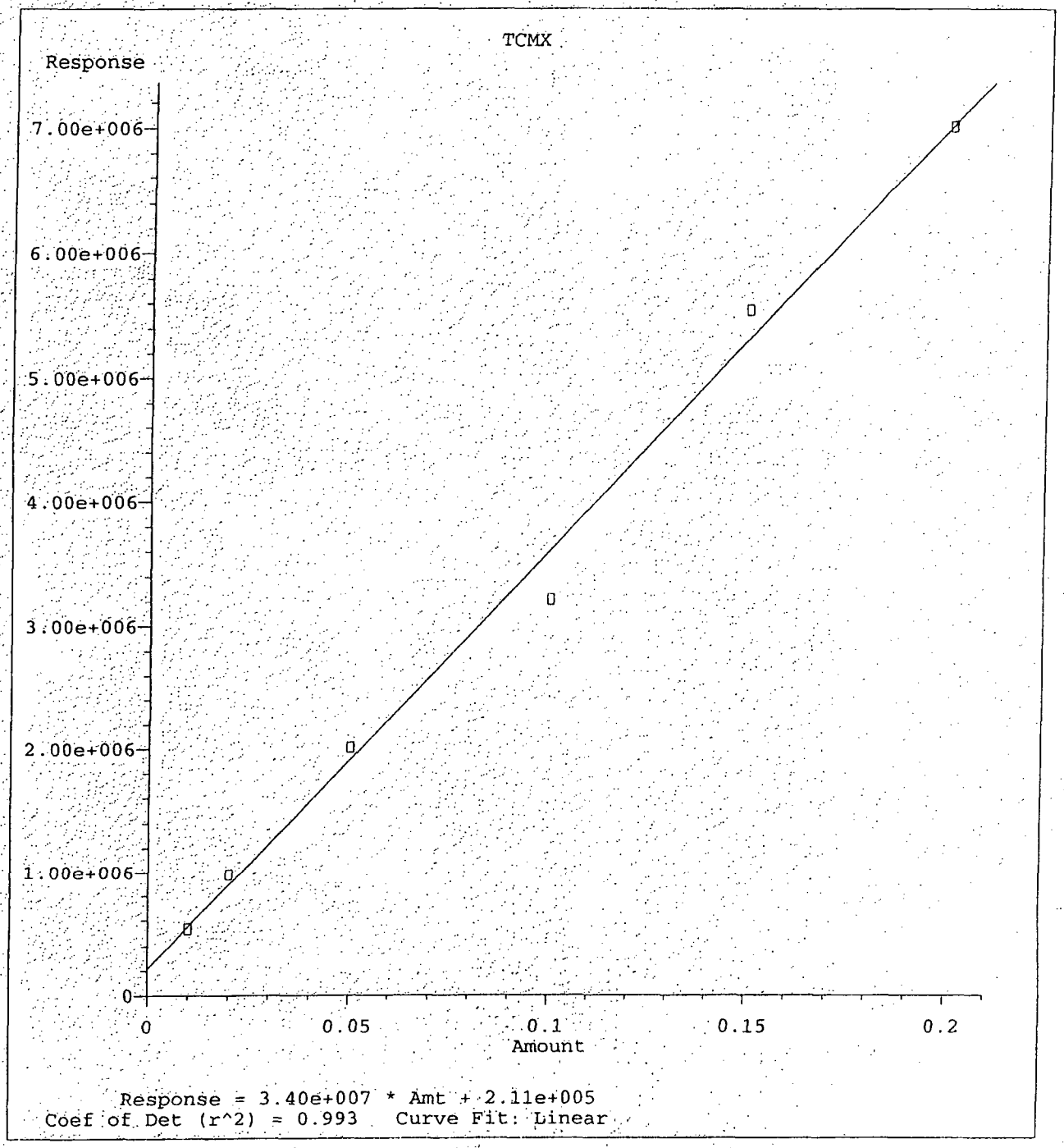
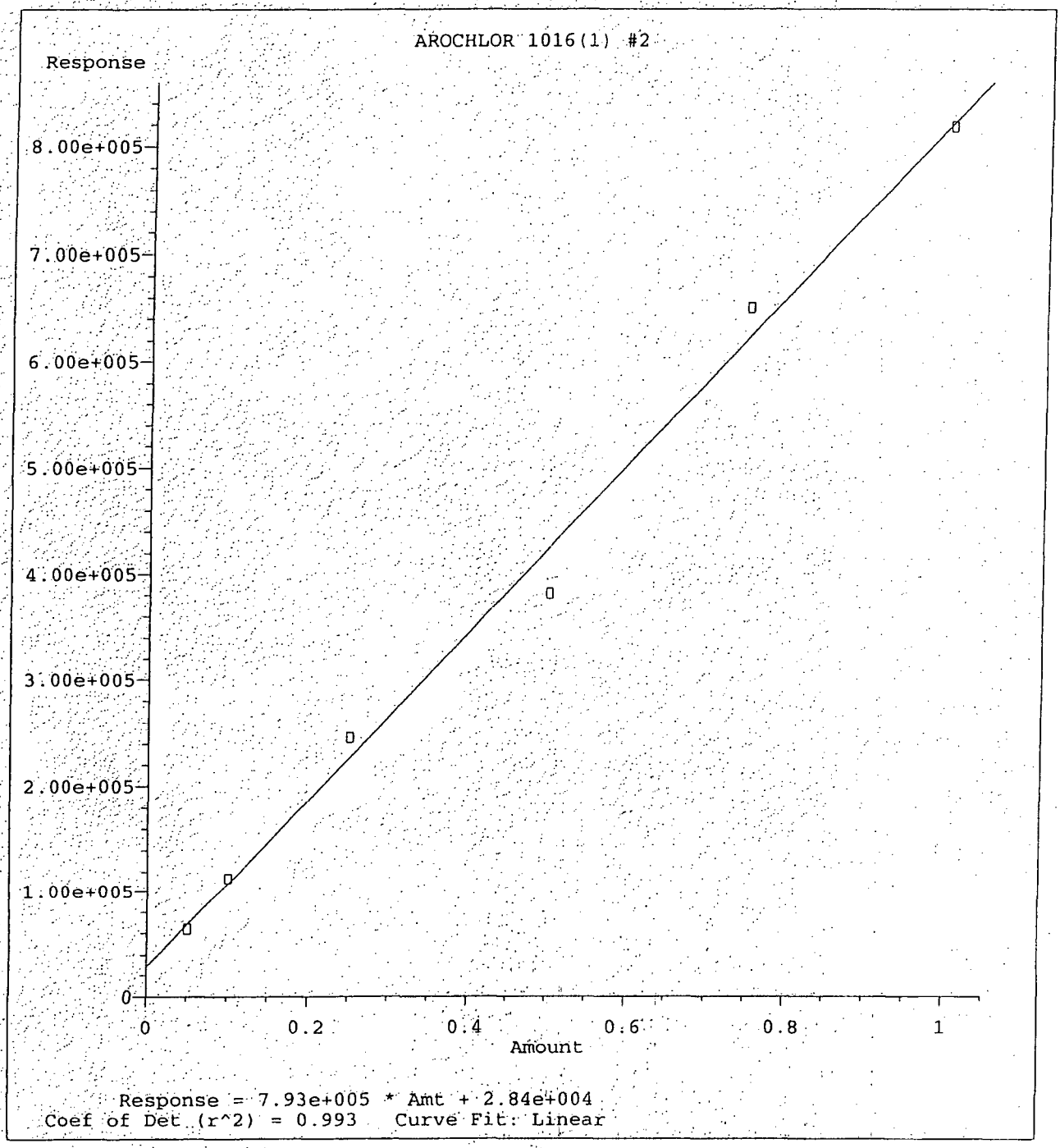
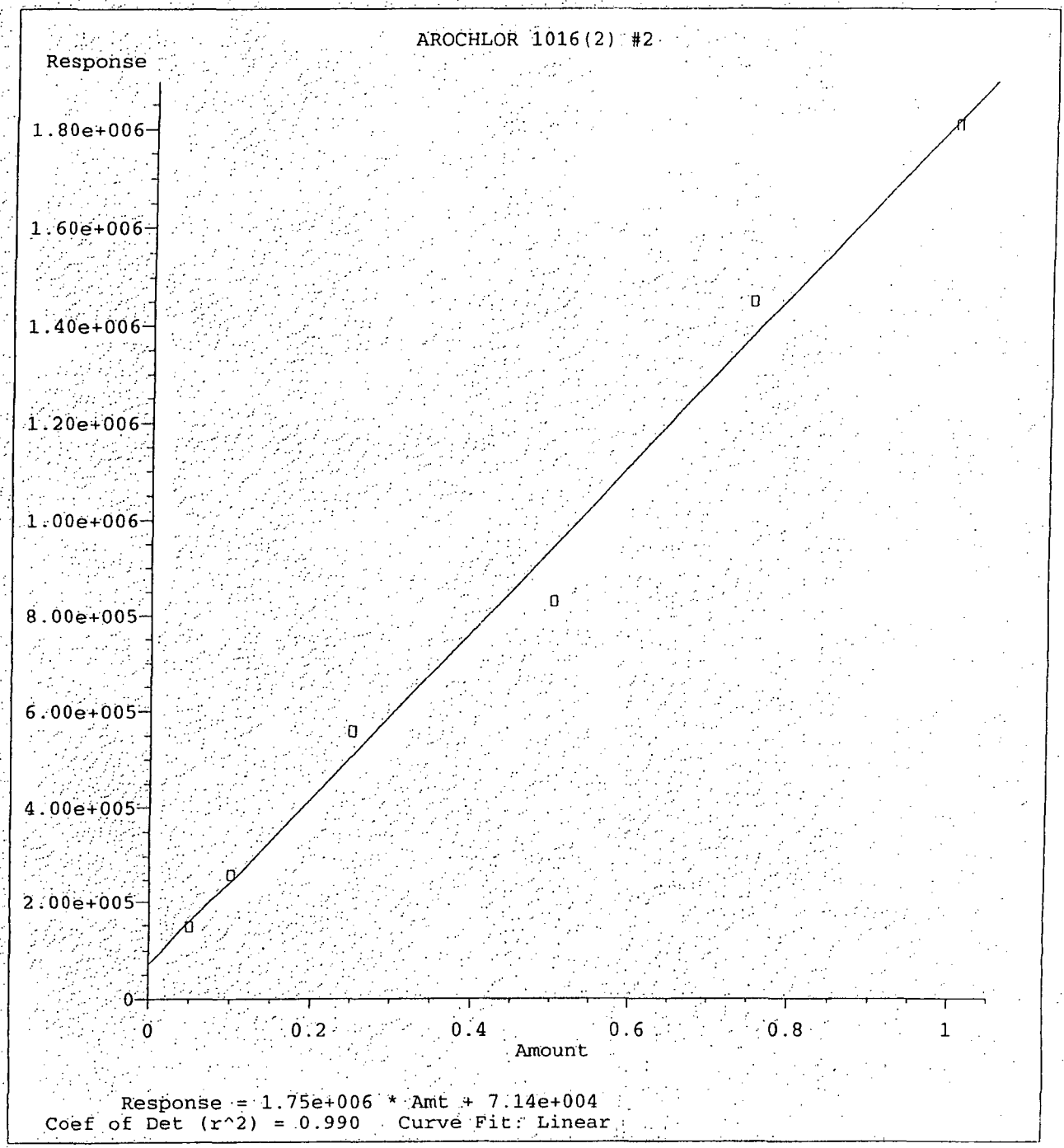
(#) = Out of Range



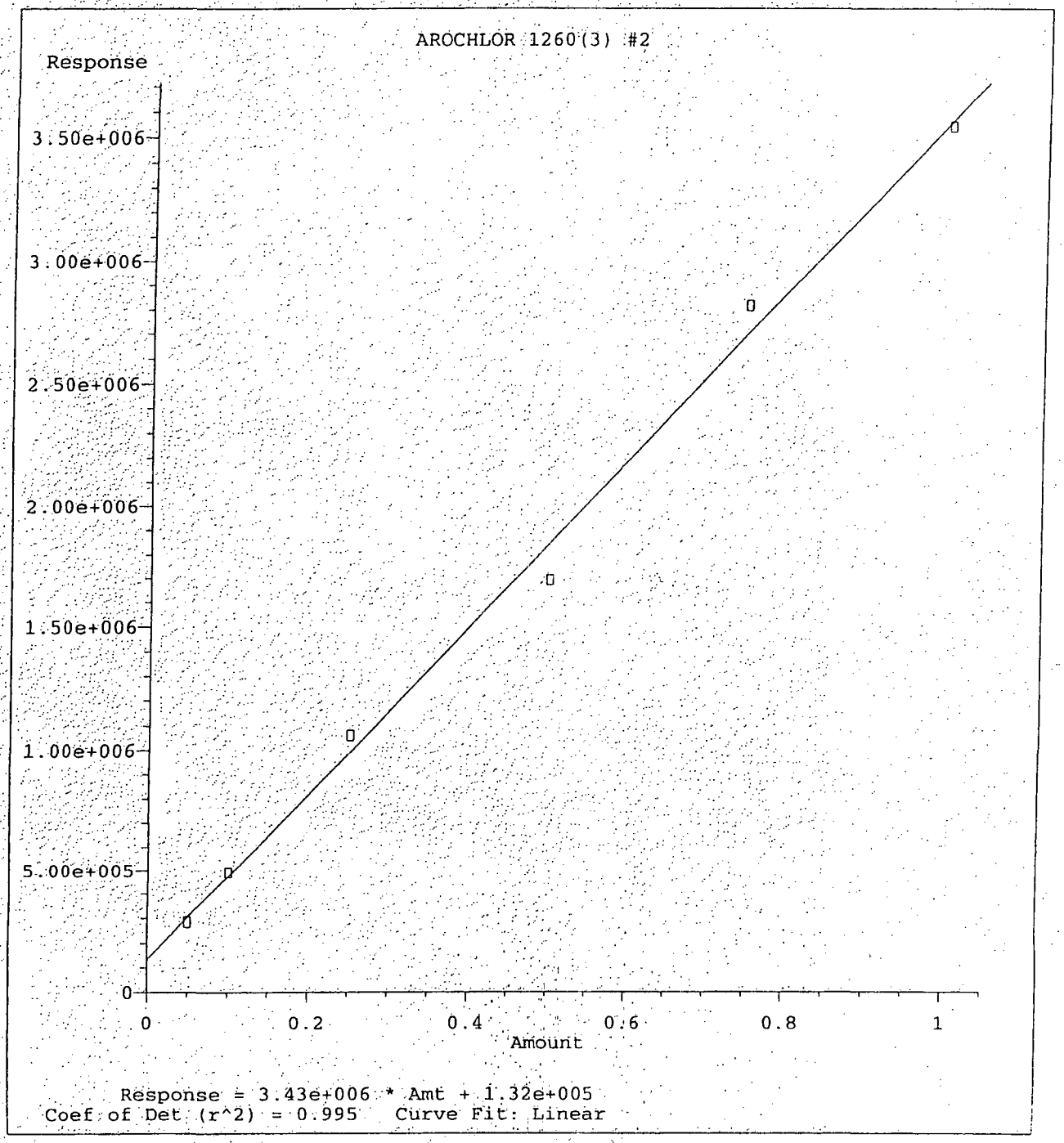
Method Name: C:\HPCHEM\1\METHODS\PCB6.M
Calibration Table Last Updated: Thu Aug 22 15:46:06 2002



Method Name: C:\HPCHEM\1\METHODS\PCB6.M
Calibration Table Last Updated: Thu Aug 22 16:37:37 2002



Method Name: C:\HPCHEM\1\METHODS\PCB6.M
Calibration Table Last Updated: Thu Aug 22 16:37:37 2002



Method Name: C:\HPCHEM\1\METHODS\PCB6.M
Calibration Table Last Updated: Thu Aug 22 16:37:37 2002

Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\082202\0822_02A.D\ECD1A.CH Vial: 2
Signal #2 : C:\HPCHEM\1\DATA\082202\0822_02A.D\ECD2B.CH
Acq On : 22 Aug 2002 2:57 pm Operator: 308
Sample : 1016/1260 .05ppm Inst : SVGC5
Misc : bs030104k30 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Aug 22 15:43 2002 Quant Results File: PCB6.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB6.M (Chemstation Integrator)
Title :
Last Update : Thu Aug 22 15:04:37 2002
Response via : Initial Calibration
DataAcq Meth : PCB5.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) s TCMX	3.59	535096	0.020 µg/mLm
Spiked Amount 0.200	Range 41 - 145	Recovery =	10.00%#
10) s DCB	9.24	333153	0.018 µg/mLm
Spiked Amount 0.200	Range 39 - 137	Recovery =	9.00%#
12) s TCMX #2	3.49	530000	0.020 µg/mL
Spiked Amount 0.200	Range 41 - 145	Recovery =	10.00%#
21) s dcb #2	9.51	432769	0.022 µg/mL
Spiked Amount 0.200	Range 39 - 137	Recovery =	11.00%#
Target Compounds			
2) m,t AROCHLOR 1016(1)	4.03	53403	0.081 µg/mLm
3) m,t AROCHLOR 1016(2)	4.43	124258	0.102 µg/mLm
4) m,t AROCHLOR 1016(3)	5.08	71996	0.052 µg/mLm
5) m,t AROCHLOR 1016(4)	5.15	45705	0.063 µg/mLm
6) m,t AROCHLOR 1260(1)	6.43	31036	0.084 µg/mLm
7) m,t AROCHLOR 1260(2)	6.73	126654	0.094 µg/mL
8) m,t AROCHLOR 1260(3)	7.28	160278	0.078 µg/mL
9) m,t AROCHLOR 1260(4)	7.92	221706	0.089 µg/mL
13) m,t AROCHLOR 1016(1) #2	4.07	63732	0.105 µg/mL
14) m,t AROCHLOR 1016(2) #2	4.52	146712	0.108 µg/mL
15) m,t AROCHLOR 1016(3) #2	5.00	244864	0.104 µg/mL
16) m,t AROCHLOR 1016(4) #2	5.15	107419	0.106 µg/mL
17) m,t AROCHLOR 1260(1) #2	6.58	15674	0.109 µg/mL
18) m,t AROCHLOR 1260(2) #2	6.88	174009	0.106 µg/mL
19) m,t AROCHLOR 1260(3) #2	7.43	284346	0.112 µg/mL
20) m,t AROCHLOR 1260(4) #2	8.03	276258	0.108 µg/mL

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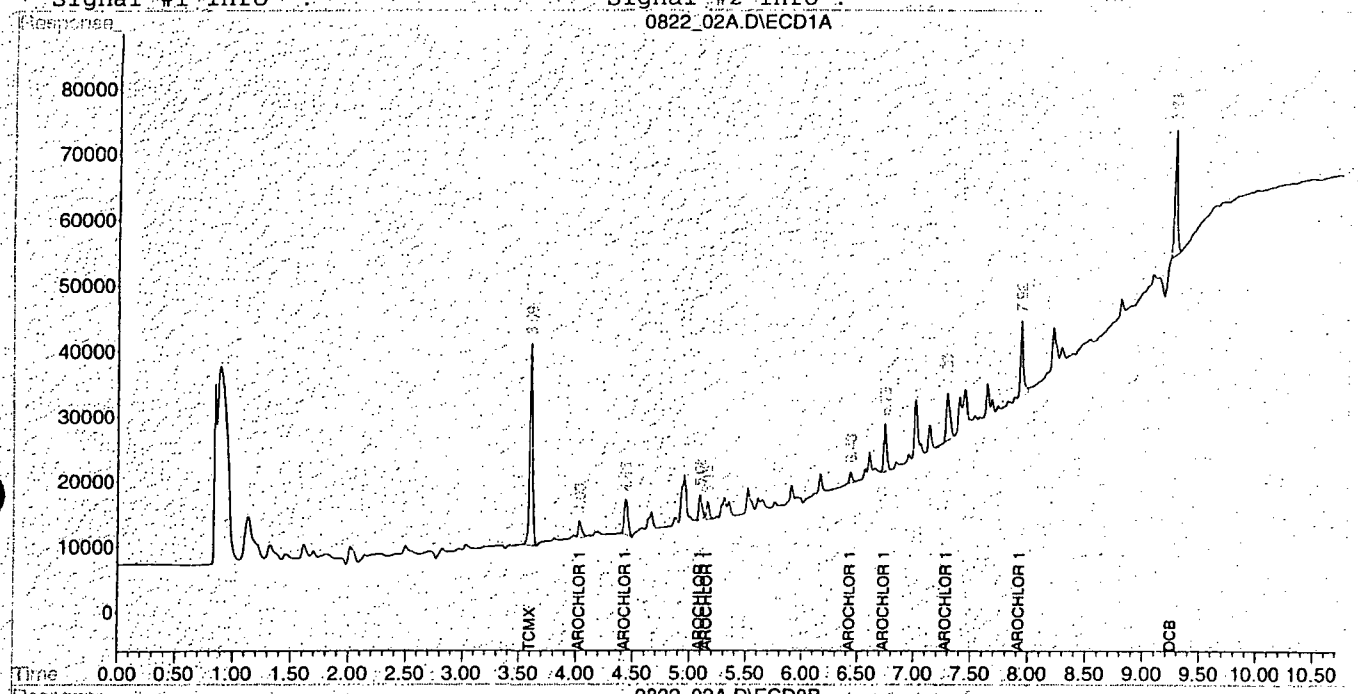
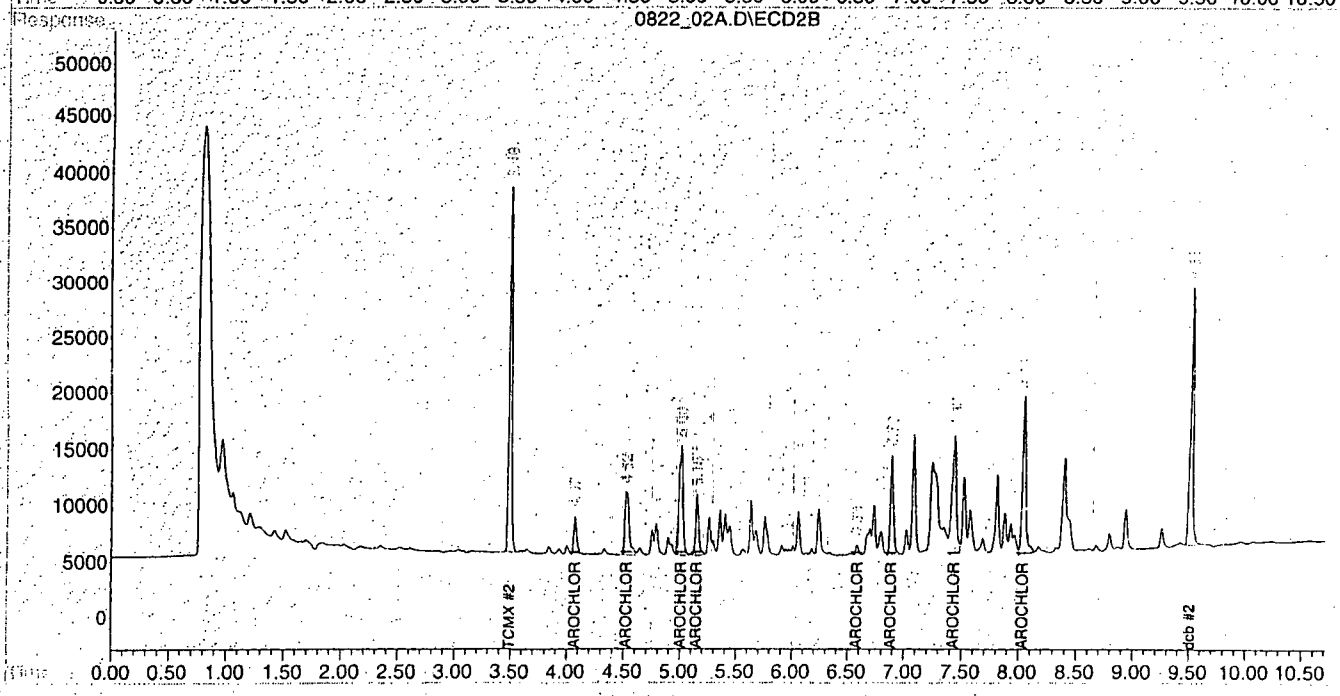
Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA\082202\0822_02A.D\ECD1A.CH Vial: 2
Signal #2 : C:\HPCHEM\1\DATA\082202\0822_02A.D\ECD2B.CH
Acq On : 22 Aug 2002 2:57 pm Operator: 308
Sample : 1016/1260 .05ppm Inst : SVGC5
Misc : bs030104k30 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Aug 22 15:43 2002 Quant Results File: PCB6.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB6.M (Chemstation Integrator)
Title :
Last Update : Thu Aug 22 15:04:37 2002
Response via : Multiple Level Calibration
DataAcq Meth : PCB5.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\082202\0822_03.D\ECD1A.CH Vial: 3
Signal #2 : C:\HPCHEM\1\DATA\082202\0822_03.D\ECD2B.CH
Acq On : 22 Aug 2002 2:10 pm Operator: 308
Sample : 1016/1260 .10ppm Inst : SVGC5
Misc : Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Aug 22 15:04 2002 Quant Results File: PCB6.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB6.M (Chemstation Integrator)
Title :
Last Update : Thu Aug 22 15:04:01 2002
Response via : Initial Calibration
DataAcq Meth : PCB5.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) s TCMX	3.60	983540	0.045 µg/mL
Spiked Amount 0.200	Range 41 - 145	Recovery =	22.50%#
10) s DCB	9.24	610288	0.040 µg/mLm
Spiked Amount 0.200	Range 39 - 137	Recovery =	20.00%#
12) s TCMX #2	3.49	980009	0.049 µg/mL
Spiked Amount 0.200	Range 41 - 145	Recovery =	24.50%#
21) s dcb #2	9.51	766339	0.052 µg/mLm
Spiked Amount 0.200	Range 39 - 137	Recovery =	26.00%#
Target Compounds			
2) m,t AROCHLOR 1016(1)	4.03	113780	0.225 µg/mL
3) m,t AROCHLOR 1016(2)	4.43	199513	0.198 µg/mL
4) m,t AROCHLOR 1016(3)	5.09	151509	0.113 µg/mL
5) m,t AROCHLOR 1016(4)	5.16	91560	0.134 µg/mL
6) m,t AROCHLOR 1260(1)	6.43	54325	0.170 µg/mLm
7) m,t AROCHLOR 1260(2)	6.73	205739	0.177 µg/mL
8) m,t AROCHLOR 1260(3)	7.28	344659	0.204 µg/mL
9) m,t AROCHLOR 1260(4)	7.92	370522	0.176 µg/mLm
13) m,t AROCHLOR 1016(1) #2	4.07	113110	0.244 µg/mL
14) m,t AROCHLOR 1016(2) #2	4.52	261133	0.252 µg/mL
15) m,t AROCHLOR 1016(3) #2	5.01	442880	0.248 µg/mL
16) m,t AROCHLOR 1016(4) #2	5.15	190827	0.246 µg/mL
17) m,t AROCHLOR 1260(1) #2	6.58	25621	0.232 µg/mL
18) m,t AROCHLOR 1260(2) #2	6.88	312337	0.251 µg/mL
19) m,t AROCHLOR 1260(3) #2	7.43	492195	0.259 µg/mL
20) m,t AROCHLOR 1260(4) #2	8.04	490574	0.254 µg/mL

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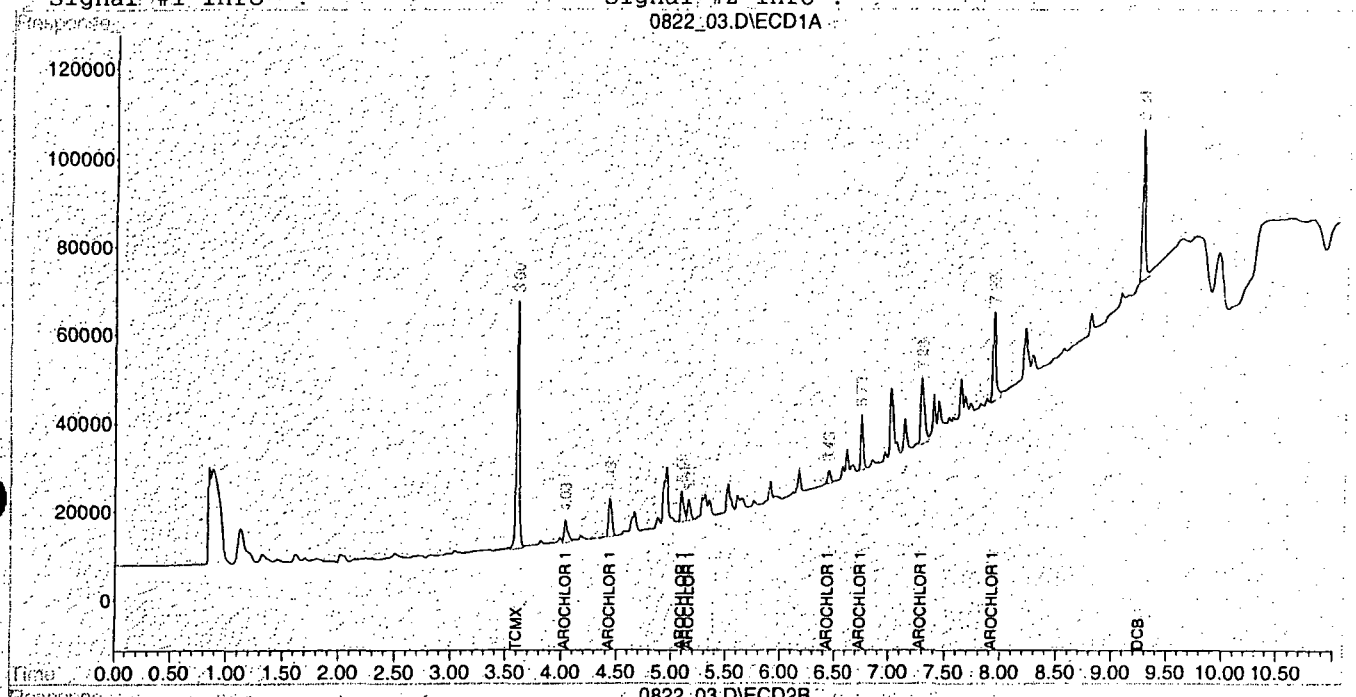
(f)=RT Delta > 1/2 Window (m)=manual int.

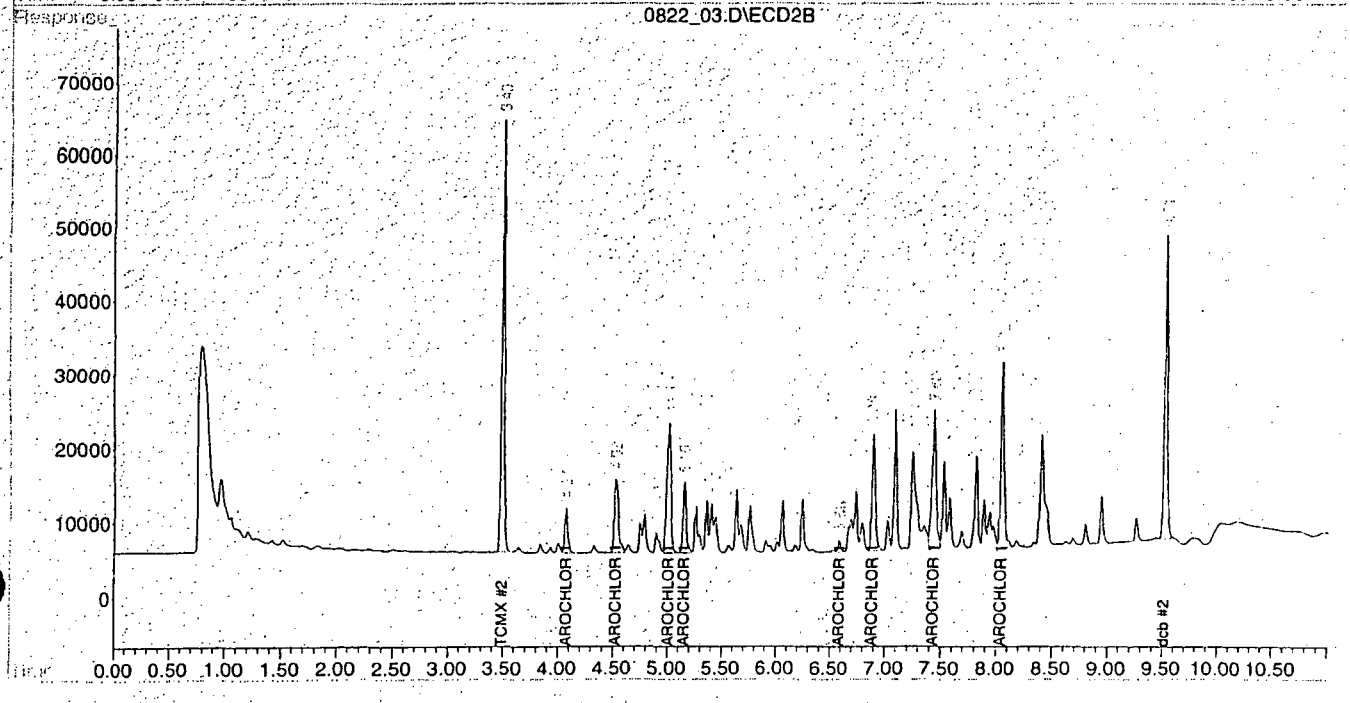
Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA\082202\0822_03.D\ECD1A.CH Vial: 3
Signal #2 : C:\HPCHEM\1\DATA\082202\0822_03.D\ECD2B.CH
Acq On : 22 Aug 2002 2:10 pm Operator: 308
Sample : 1016/1260 .10ppm Inst : SVGC5
Misc : Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Aug 22 15:04 2002 Quant Results File: PCB6.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB6.M (Chemstation Integrator)
Title :
Last Update : Thu Aug 22 15:04:01 2002
Response via : Multiple Level Calibration
DataAcq Meth : PCB5.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\082202\0822_04.D\ECD1A.CH Vial: 4
Signal #2 : C:\HPCHEM\1\DATA\082202\0822_04.D\ECD2B.CH
Acq On : 22 Aug 2002 2:24 pm Operator: 308
Sample : 1016/1260 .25ppm Inst : SVGC5
Misc : Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Aug 22 15:44 2002 Quant Results File: PCB6.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB6.M (Chemstation Integrator)
Title :
Last Update : Thu Aug 22 15:03:31 2002
Response via : Initial Calibration
DataAcq Meth : PCB5.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

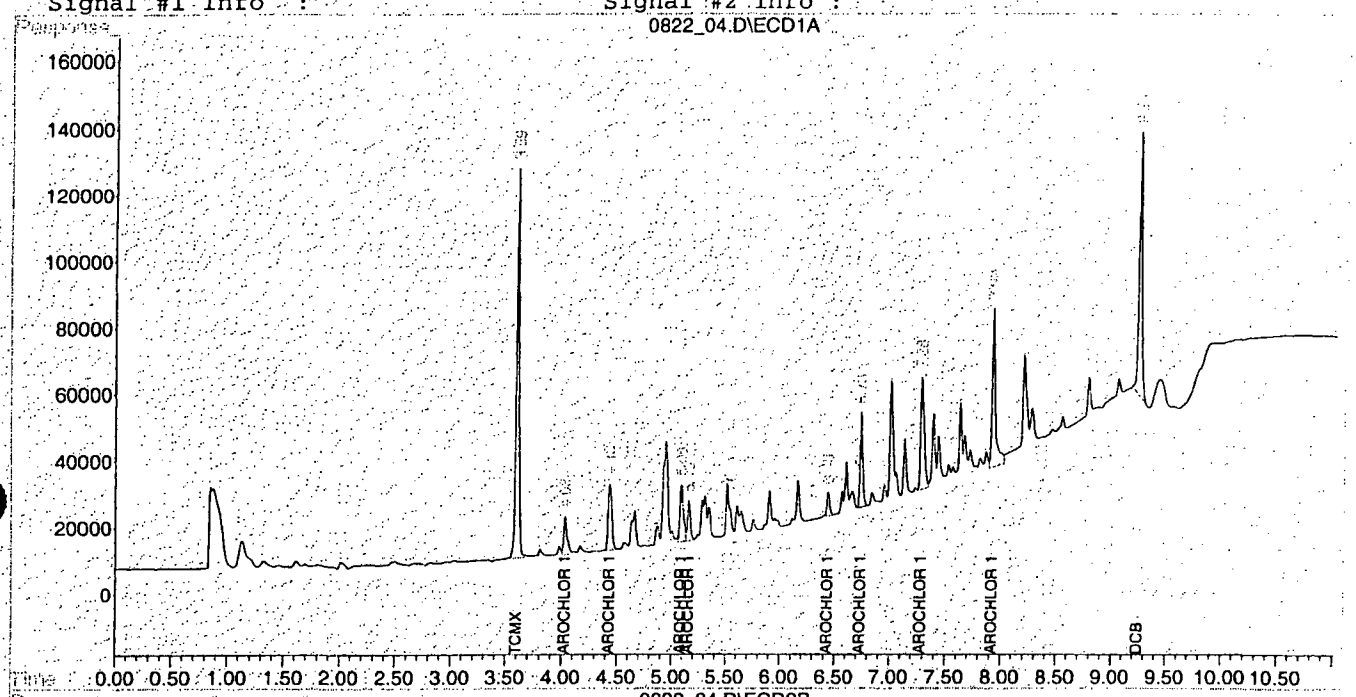
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) s TCMX	3.59	2013493	0.116 µg/mLm
Spiked Amount 0.200	Range 41 - 145	Recovery =	58.00%
10) s DCB	9.24	1472841	0.120 µg/mLm
Spiked Amount 0.200	Range 39 - 137	Recovery =	60.00%
12) s TCMX #2	3.49	2180080	0.148 µg/mL
Spiked Amount 0.200	Range 41 - 145	Recovery =	74.00%
21) s dcb #2	9.51	1552066	0.144 µg/mL
Spiked Amount 0.200	Range 39 - 137	Recovery =	72.00%
Target Compounds			
2) m,t AROCHLOR 1016(1)	4.03	248274	0.644 µg/mL
3) m,t AROCHLOR 1016(2)	4.43	456061	0.554 µg/mL
4) m,t AROCHLOR 1016(3)	5.08	363081	0.272 µg/mL
5) m,t AROCHLOR 1016(4)	5.15	224718	0.355 µg/mL
6) m,t AROCHLOR 1260(1)	6.43	132428	0.487 µg/mLm
7) m,t AROCHLOR 1260(2)	6.73	479755	0.487 µg/mL
8) m,t AROCHLOR 1260(3)	7.28	757466	0.546 µg/mL
9) m,t AROCHLOR 1260(4)	7.92	1014949	0.613 µg/mL
13) m,t AROCHLOR 1016(1) #2	4.07	245835	0.713 µg/mL
14) m,t AROCHLOR 1016(2) #2	4.52	558082	0.728 µg/mL
15) m,t AROCHLOR 1016(3) #2	5.00	968166	0.740 µg/mL
16) m,t AROCHLOR 1016(4) #2	5.15	420709	0.742 µg/mL
17) m,t AROCHLOR 1260(1) #2	6.58	59055	0.746 µg/mL
18) m,t AROCHLOR 1260(2) #2	6.88	671982	0.742 µg/mL
19) m,t AROCHLOR 1260(3) #2	7.43	1061141	0.788 µg/mL
20) m,t AROCHLOR 1260(4) #2	8.03	1068931	0.778 µg/mL

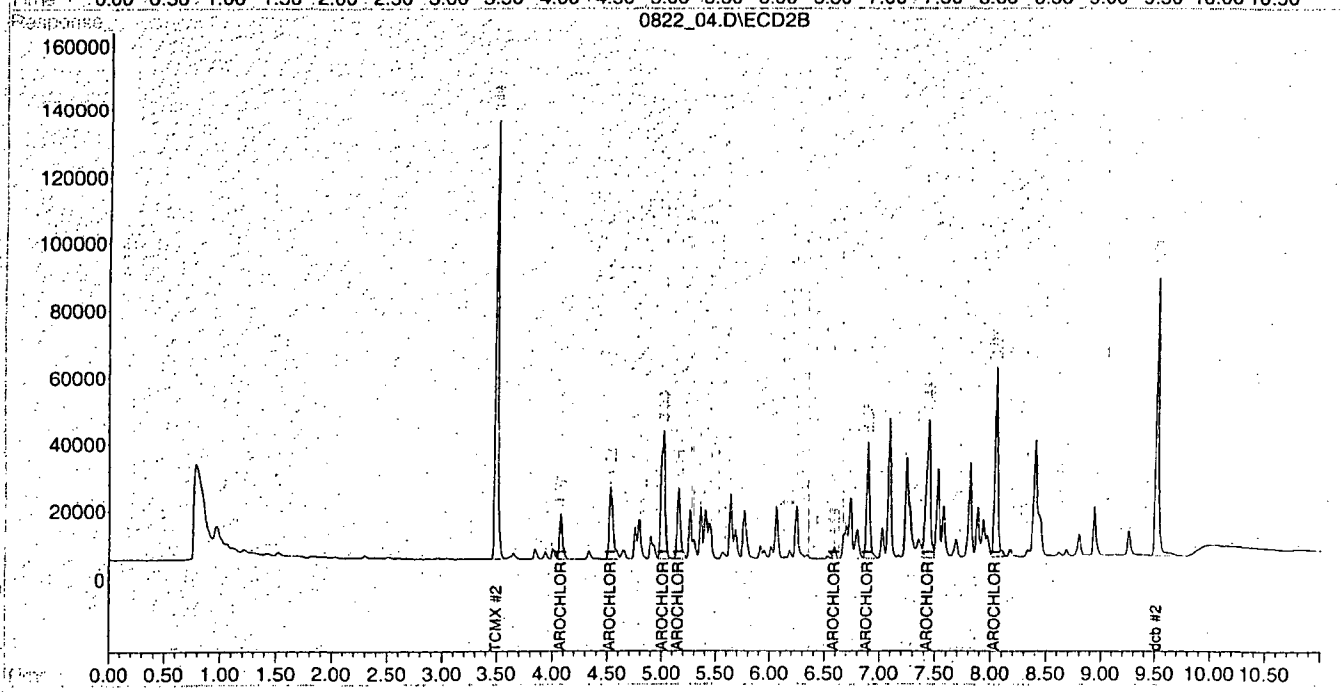
Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA\082202\0822_04.D\ECD1A.CH Vial: 4
Signal #2 : C:\HPCHEM\1\DATA\082202\0822_04.D\ECD2B.CH
Acq On : 22 Aug 2002 2:24 pm Operator: 308
Sample : 1016/1260 .25ppm Inst : SVGC5
Misc : Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Aug 22 15:44 2002 Quant Results File: PCB6.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB6.M (Chemstation Integrator)
Title :
Last Update : Thu Aug 22 15:03:31 2002
Response via : Multiple Level Calibration
DataAcq Meth : PCB5.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\082202\0822_05.D\ECD1A.CH Vial: 5
Signal #2 : C:\HPCHEM\1\DATA\082202\0822_05.D\ECD2B.CH
Acq On : 22 Aug 2002 2:39 pm Operator: 308
Sample : 1016/1260 .50ppm Inst : SVGC5
Misc : Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Aug 22 15:45 2002 Quant Results File: PCB6.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB6.M (Chemstation Integrator)
Title :
Last Update : Thu Aug 22 15:44:20 2002
Response via : Initial Calibration
DataAcq Meth : PCB5.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

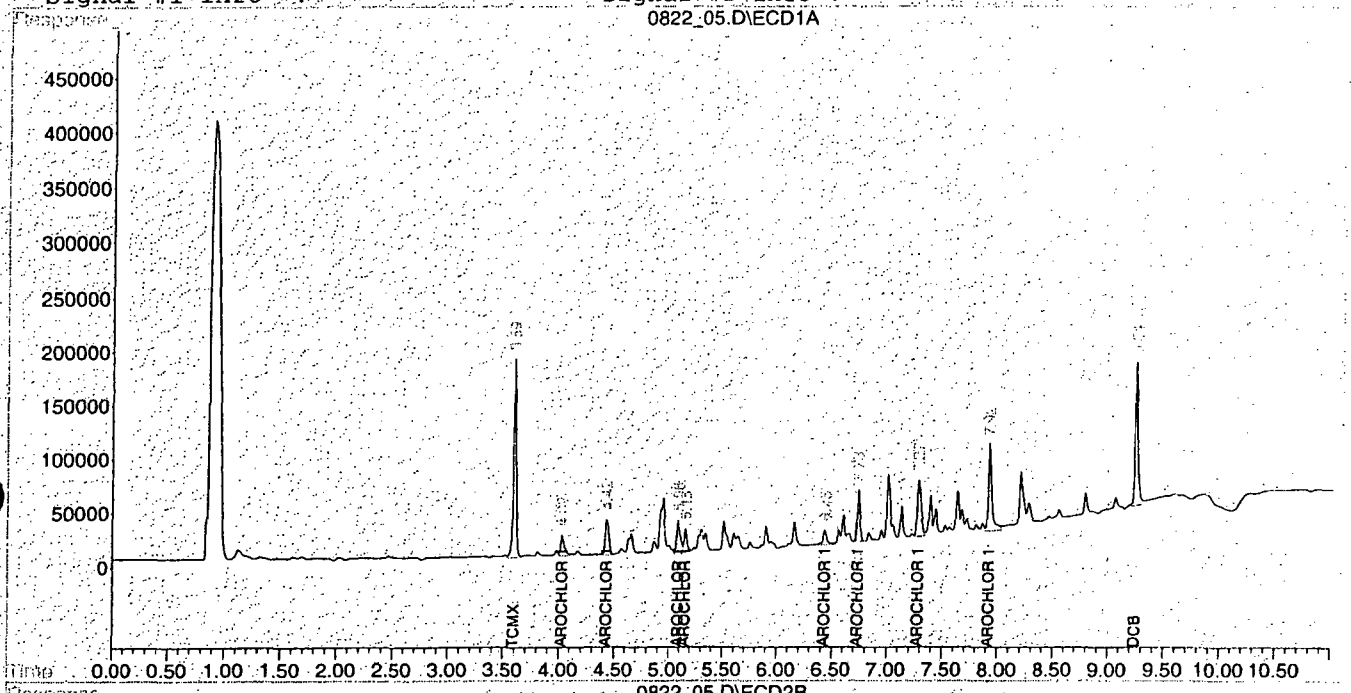
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) s TCMX	3.59	3212378	0.078 µg/mL
Spiked Amount 0.200	Range 41 - 145	Recovery =	39.00%#
10) s DCB	9.24	2440200	0.086 µg/mLm
Spiked Amount 0.200	Range 39 - 137	Recovery =	43.00%
12) s TCMX #2	3.49	3394870	0.080 µg/mL
Spiked Amount 0.200	Range 41 - 145	Recovery =	40.00%#
21) s dcb #2	9.50	2678079	0.081 µg/mL
Spiked Amount 0.200	Range 39 - 137	Recovery =	40.50%
Target Compounds			
2) m,t AROCHLOR 1016(1)	4.02	453571	0.453 µg/mL
3) m,t AROCHLOR 1016(2)	4.42	806510	0.424 µg/mL
4) m,t AROCHLOR 1016(3)	5.08	632972	0.451 µg/mL
5) m,t AROCHLOR 1016(4)	5.15	419594	0.469 µg/mL
6) m,t AROCHLOR 1260(1)	6.43	326951	0.593 µg/mLm
7) m,t AROCHLOR 1260(2)	6.73	819451	0.417 µg/mL
8) m,t AROCHLOR 1260(3)	7.27	1211625	0.404 µg/mL
9) m,t AROCHLOR 1260(4)	7.92	1689742	0.455 µg/mL
13) m,t AROCHLOR 1016(1) #2	4.07	381505	0.392 µg/mL
14) m,t AROCHLOR 1016(2) #2	4.52	829462	0.378 µg/mL
15) m,t AROCHLOR 1016(3) #2	5.00	1492413	0.392 µg/mL
16) m,t AROCHLOR 1016(4) #2	5.14	651129	0.393 µg/mL
17) m,t AROCHLOR 1260(1) #2	6.58	109974	0.448 µg/mL
18) m,t AROCHLOR 1260(2) #2	6.88	1083137	0.403 µg/mL
19) m,t AROCHLOR 1260(3) #2	7.42	1693496	0.398 µg/mL
20) m,t AROCHLOR 1260(4) #2	8.03	1707271	0.398 µg/mL

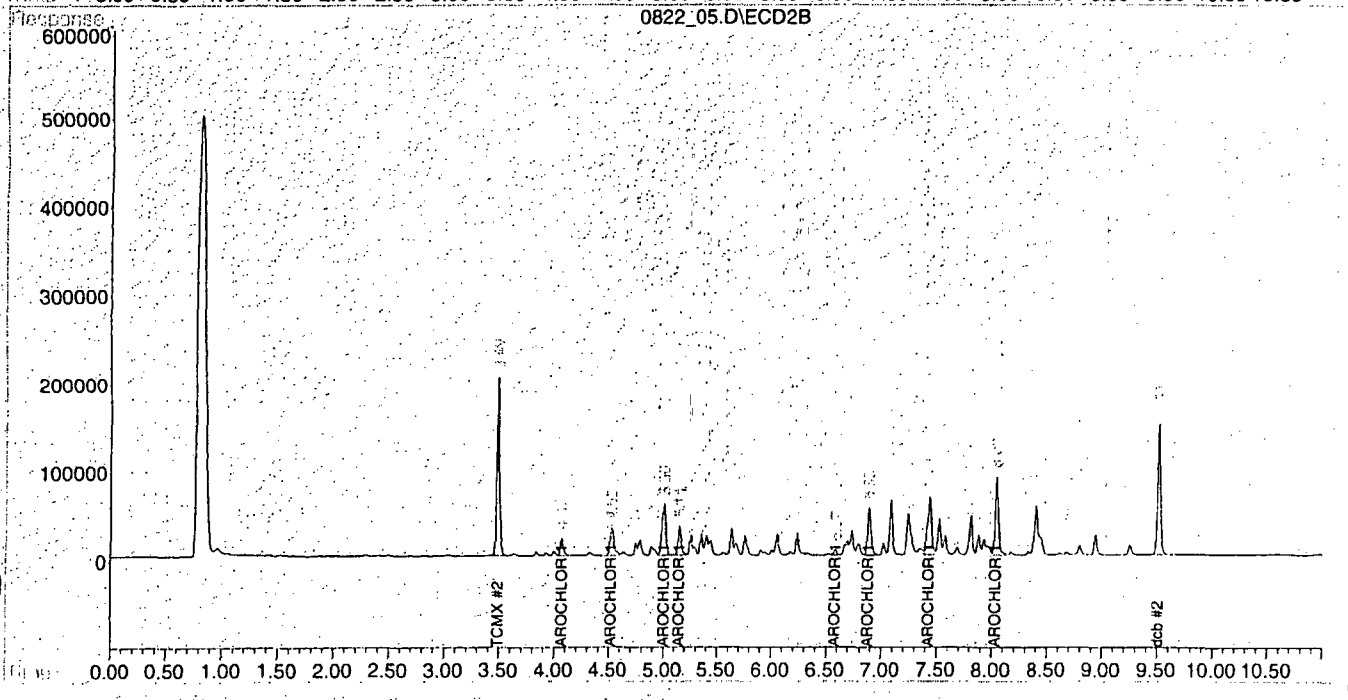
Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA\082202\0822_05.D\ECD1A.CH Vial: 5
Signal #2 : C:\HPCHEM\1\DATA\082202\0822_05.D\ECD2B.CH
Acq On : 22 Aug 2002 2:39 pm Operator: 308
Sample : 1016/1260 .50ppm Inst : SVGC5
Misc : Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Aug 22 15:45 2002 Quant Results File: PCB6.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB6.M (Chemstation Integrator)
Title :
Last Update : Thu Aug 22 15:44:20 2002
Response via : Multiple Level Calibration
DataAcq Meth : PCB5.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\082202\0822_06.D\ECD1A.CH Vial: 6
Signal #2 : C:\HPCHEM\1\DATA\082202\0822_06.D\ECD2B.CH
Acq On : 22 Aug 2002 3:12 pm Operator: 308
Sample : 1016/1260 .75ppm Inst : SVGC5
Misc : Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Aug 22 15:26 2002 Quant Results File: PCB6.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB6.M (Chemstation Integrator)
Title :
Last Update : Thu Aug 22 15:10:03 2002
Response via : Initial Calibration
DataAcq Meth : PCB5.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

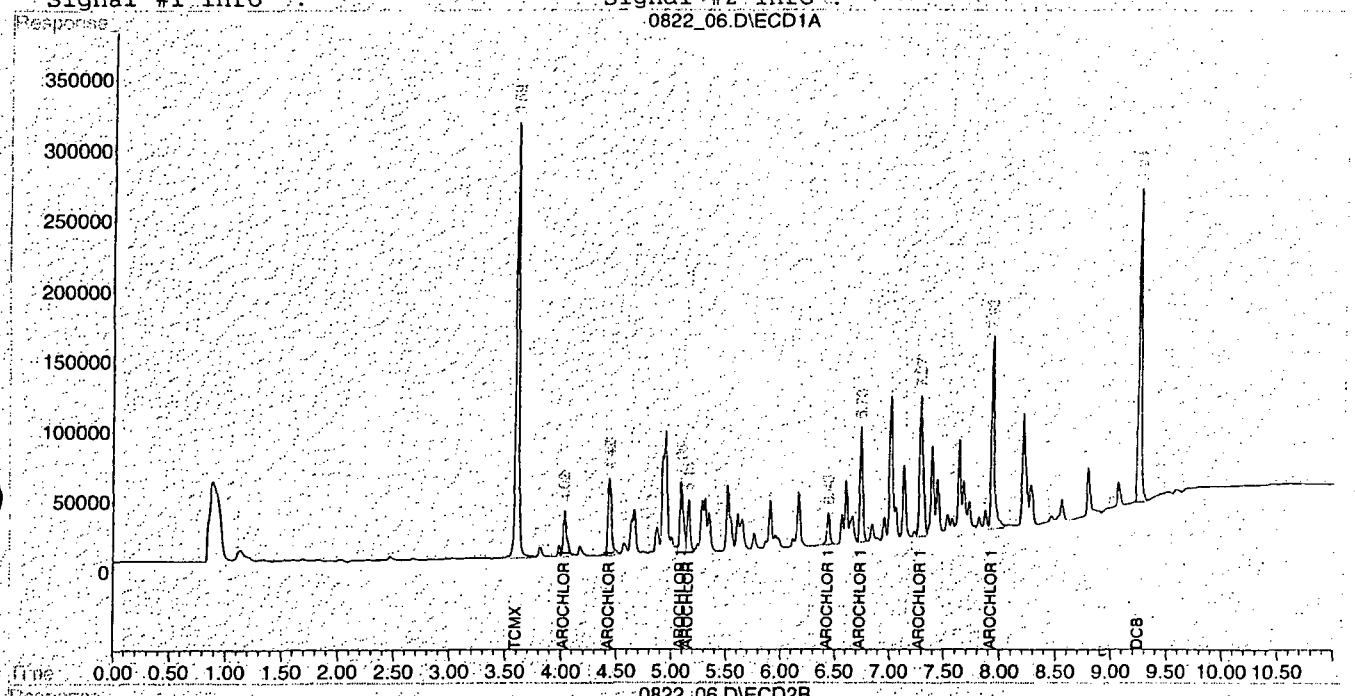
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) s TCMX	3.59	5544064	0.166 µg/mL
Spiked Amount 0.200	Range 41 - 145	Recovery =	83.00%
10) s DCB	9.24	3893358	0.174 µg/mLm
Spiked Amount 0.200	Range 39 - 137	Recovery =	87.00%
12) s TCMX #2	3.49	5907501	0.178 µg/mL
Spiked Amount 0.200	Range 41 - 145	Recovery =	89.00%
21) s dcb #2	9.50	4619703	0.182 µg/mL
Spiked Amount 0.200	Range 39 - 137	Recovery =	91.00%
Target Compounds			
2) m,t AROCHLOR 1016(1)	4.02	723036	0.912 µg/mL
3) m,t AROCHLOR 1016(2)	4.42	1318054	0.856 µg/mL
4) m,t AROCHLOR 1016(3)	5.08	1065091	0.780 µg/mL
5) m,t AROCHLOR 1016(4)	5.15	690167	0.905 µg/mL
6) m,t AROCHLOR 1260(1)	6.43	447609	1.037 µg/mL
7) m,t AROCHLOR 1260(2)	6.73	1410472	0.883 µg/mL
8) m,t AROCHLOR 1260(3)	7.27	2269806	0.959 µg/mL
9) m,t AROCHLOR 1260(4)	7.92	2627929	0.878 µg/mL
13) m,t AROCHLOR 1016(1) #2	4.07	650450	0.847 µg/mL
14) m,t AROCHLOR 1016(2) #2	4.52	1450410	0.832 µg/mL
15) m,t AROCHLOR 1016(3) #2	5.00	2572192	0.862 µg/mL
16) m,t AROCHLOR 1016(4) #2	5.14	1123464	0.865 µg/mL
17) m,t AROCHLOR 1260(1) #2	6.58	175505	0.941 µg/mL
18) m,t AROCHLOR 1260(2) #2	6.88	1826879	0.871 µg/mL
19) m,t AROCHLOR 1260(3) #2	7.42	2817326	0.850 µg/mL
20) m,t AROCHLOR 1260(4) #2	8.03	2920656	0.886 µg/mL

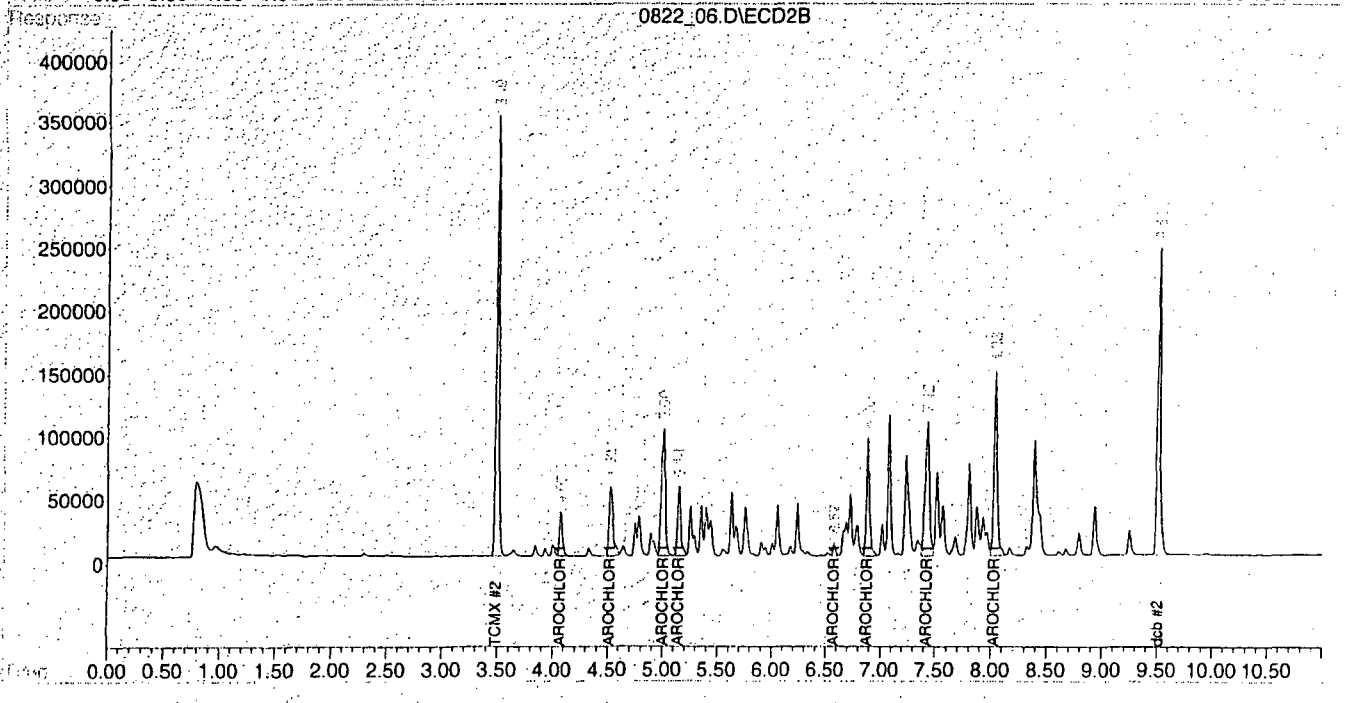
Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA\082202\0822_06.D\ECD1A.CH Vial: 6
Signal #2 : C:\HPCHEM\1\DATA\082202\0822_06.D\ECD2B.CH
Acq On : 22 Aug 2002 3:12 pm Operator: 308
Sample : 1016/1260 .75ppm Inst : SVGC5
Misc : Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Aug 22 15:26 2002 Quant Results File: PCB6.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB6.M (Chemstation Integrator)
Title :
Last Update : Thu Aug 22 15:10:03 2002
Response via : Multiple Level Calibration
DataAcq Meth : PCB5.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\082202\0822_07.D\ECD1A.CH Vial: 7
Signal #2 : C:\HPCHEM\1\DATA\082202\0822_07.D\ECD2B.CH
Acq On : 22 Aug 2002 3:27 pm Operator: 308
Sample : 1016/1260 1.0ppm Inst : SVGC5
Misc : Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Aug 22 15:42 2002 Quant Results File: PCB6.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB6.M (Chemstation Integrator)
Title :
Last Update : Thu Aug 22 15:26:43 2002
Response via : Initial Calibration
DataAcq Meth : PCB5.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

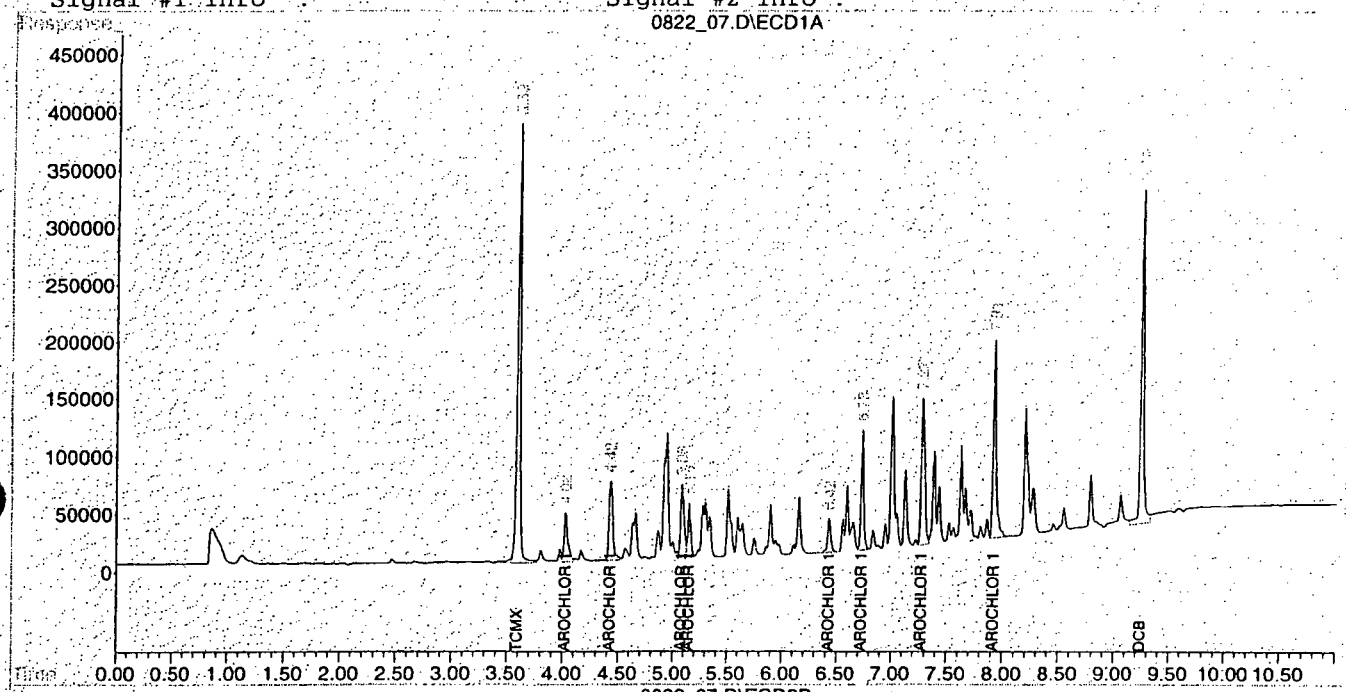
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) s TCMX	3.59	7010511	0.187 µg/mL
Spiked Amount 0.200	Range 41 - 145	Recovery =	93.50%
10) s DCB	9.24	5612937	0.223 µg/mL
Spiked Amount 0.200	Range 39 - 137	Recovery =	111.50%
12) s TCMX #2	3.49	7348228	0.193 µg/mL
Spiked Amount 0.200	Range 41 - 145	Recovery =	96.50%
21) s dcb #2	9.50	5776391	0.196 µg/mL
Spiked Amount 0.200	Range 39 - 137	Recovery =	98.00%
Target Compounds			
2) m,t AROCHLOR 1016(1)	4.02	941898	1.047 µg/mL
3) m,t AROCHLOR 1016(2)	4.42	1729757	1.000 µg/mL
4) m,t AROCHLOR 1016(3)	5.08	1328288	0.956 µg/mL
5) m,t AROCHLOR 1016(4)	5.15	881055	1.061 µg/mL
6) m,t AROCHLOR 1260(1)	6.43	570816	1.157 µg/mL
7) m,t AROCHLOR 1260(2)	6.73	1774653	0.992 µg/mL
8) m,t AROCHLOR 1260(3)	7.27	2848515	1.057 µg/mL
9) m,t AROCHLOR 1260(4)	7.91	3206154	0.950 µg/mL
13) m,t AROCHLOR 1016(1) #2	4.07	818185	0.936 µg/mL
14) m,t AROCHLOR 1016(2) #2	4.52	1808547	0.914 µg/mL
15) m,t AROCHLOR 1016(3) #2	5.00	3213433	0.942 µg/mL
16) m,t AROCHLOR 1016(4) #2	5.14	1400310	0.943 µg/mL
17) m,t AROCHLOR 1260(1) #2	6.57	214520	0.985 µg/mL
18) m,t AROCHLOR 1260(2) #2	6.88	2228200	0.925 µg/mL
19) m,t AROCHLOR 1260(3) #2	7.42	3540531	0.931 µg/mL
20) m,t AROCHLOR 1260(4) #2	8.03	3710371	0.974 µg/mL

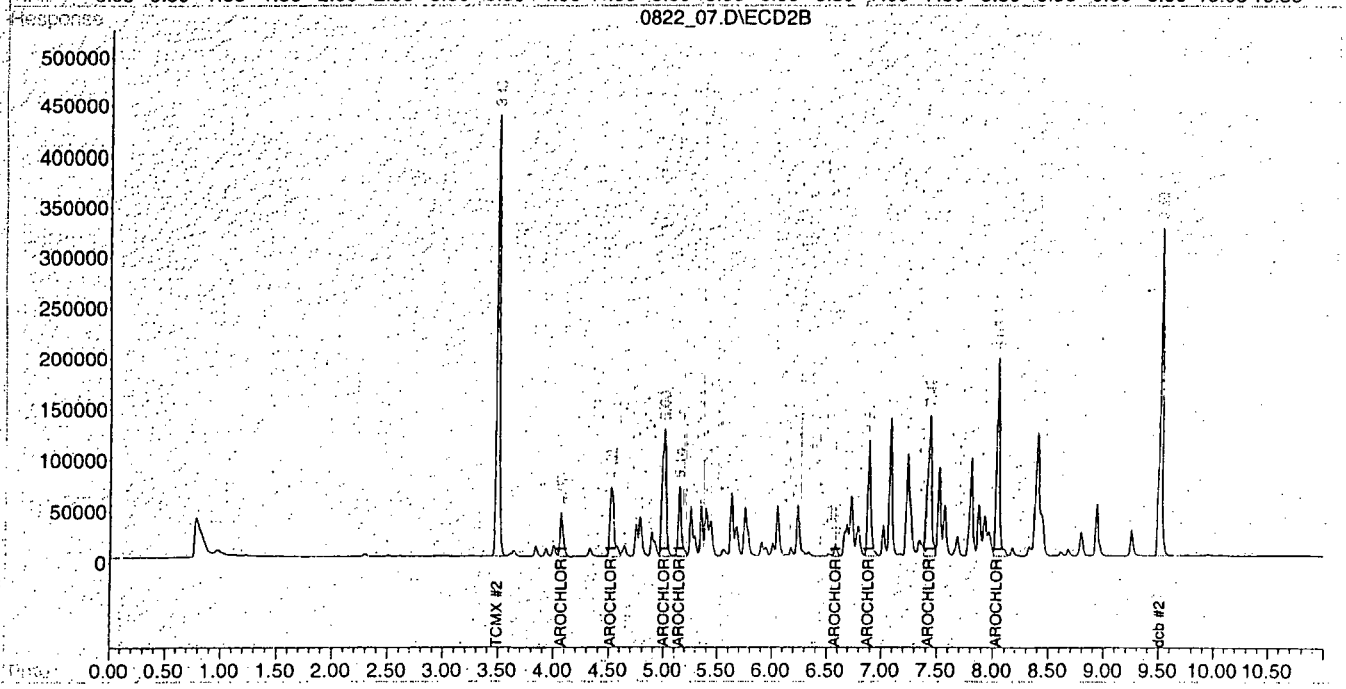
Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA\082202\0822_07.D\ECD1A.CH Vial: 7
Signal #2 : C:\HPCHEM\1\DATA\082202\0822_07.D\ECD2B.CH
Acq On : 22 Aug 2002 3:27 pm Operator: 308
Sample : 1016/1260 1.0ppm Inst : SVGC5
Misc : Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Aug 22 15:42 2002 Quant Results File: PCB6.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB6.M (Chemstation Integrator)
Title :
Last Update : Thu Aug 22 15:26:43 2002
Response via : Multiple Level Calibration
DataAcq Meth : PCB5.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Response Factor Report SVGC5

Method : C:\HPCHEM\1\METHODS\1254L.M (Chemstation Integrator)
Title :
Last Update : Thu Aug 22 21:24:25 2002

8/22/02 KK
KS 8/23/02

Calibration Files
1 =0822_02A.D 2 =0822_03.D 3 =0822_04.D
4 =0822_05.D 5 =0822_06.D 6 =0822_12.D

		Compound	1	2	3	4	5	6	Avg		%RSD
1)	s	TCMX	5.351	4.918	4.027	3.212	3.696	3.505	4.118	E7	20.44
2)	m,t	AROCHLOR 1254(1)						1.206	1.206	E6	0.00
3)	m,t	AROCHLOR 1254(2)						5.831	5.831	E5	0.00
4)	m,t	AROCHLOR 1254(3)						2.275	2.275	E6	0.00
5)	m,t	AROCHLOR 1254(4)						1.545	1.545	E6	0.00
6)	s	DCB	3.332	3.051	2.946	2.440	2.596	2.806	2.862	E7	11.22

Signal #2 Calibration Files
1 =0822_02A.D 2 =0822_03.D 3 =0822_04.D
4 =0822_05.D 5 =0822_06.D 6 =0822_12.D

		Compound	1	2	3	4	5	6	Avg		%RSD
1)	s	TCMX	5.300	4.900	4.360	3.395	3.938	3.674	4.261	E7	17.23
2)	m,t	AROCHLOR 1254(1)						6.098	6.098	E5	0.00
3)	m,t	AROCHLOR 1254(2)						2.637	2.637	E5	0.00
4)	m,t	AROCHLOR 1254(3)						2.643	2.643	E6	0.00
5)	m,t	AROCHLOR 1254(4)						1.189	1.189	E6	0.00
6)	s	dcb	4.328	3.832	3.104	2.678	3.080	2.888	3.318	E7	18.96

(#) = Out of Range

Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\082202\0822_12.D\ECD1A.CH Vial: 14
Signal #2 : C:\HPCHEM\1\DATA\082202\0822_12.D\ECD2B.CH
Acq On : 22 Aug 2002 4:47 pm Operator: 308
Sample : 1254 1ppm Inst : SVGC5
Misc : Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Aug 22 21:24 2002 Quant Results File: 1254L.RES

Quant Method : C:\HPCHEM\1\METHODS\1254L.M (Chemstation Integrator)
Title :
Last Update : Thu Aug 22 21:24:05 2002
Response via : Initial Calibration
DataAcq Meth : PCB5.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

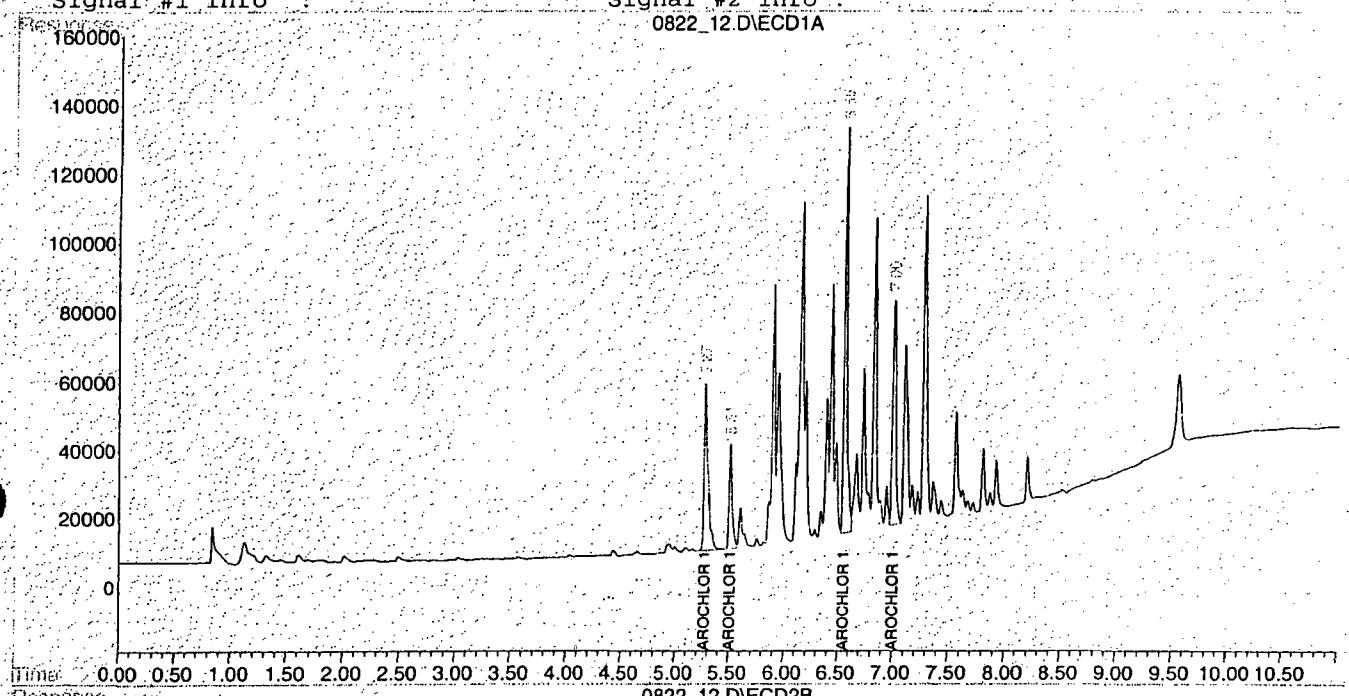
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) s TCMX	0.00	0	N.D. µg/mLd
Spiked Amount 0.200	Range 41 - 145	Recovery	= 0.00%#
6) s DCB	0.00	0	N.D. µg/mL
Spiked Amount 0.200	Range 39 - 137	Recovery	= 0.00%#
8) s TCMX #2	0.00	0	N.D. µg/mL
Spiked Amount 0.200	Range 41 - 145	Recovery	= 0.00%#
13) s dcb #2	0.00	0	N.D. µg/mL
Spiked Amount 0.200	Range 39 - 137	Recovery	= 0.00%#
Target Compounds			
2) m,t AROCHLOR 1254(1)	5.27	1206014	0.989 µg/mL
3) m,t AROCHLOR 1254(2)	5.51	583130	1.057 µg/mL
4) m,t AROCHLOR 1254(3)	6.55	2275409	1.065 µg/mL
5) m,t AROCHLOR 1254(4)	7.00	1544535	1.032 µg/mL
9) m,t AROCHLOR 1254(1) #2	5.63	609777	0.950 µg/mL
10) m,t AROCHLOR 1254(2) #2	5.75	263735	1.052 µg/mL
11) m,t AROCHLOR 1254(3) #2	6.69	2643179	1.235 µg/mL
12) m,t AROCHLOR 1254(4) #2	7.07	1188579	1.227 µg/mL

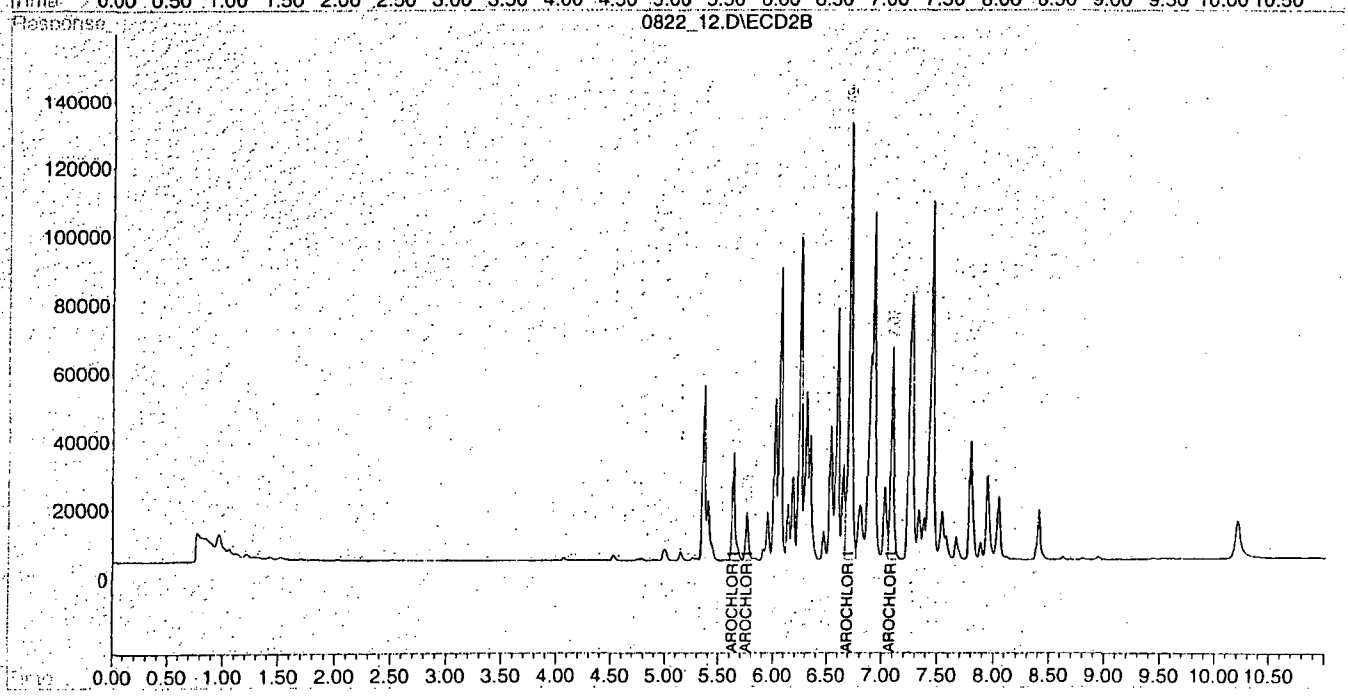
Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA\082202\0822_12.D\ECD1A.CH Vial: 14
Signal #2 : C:\HPCHEM\1\DATA\082202\0822_12.D\ECD2B.CH
Acq On : 22 Aug 2002 4:47 pm Operator: 308
Sample : 1254 1ppm Inst : SVGC5
Misc : Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Aug 22 21:24 2002 Quant Results File: 1254L.RES

Quant Method : C:\HPCHEM\1\METHODS\1254L.M (Chemstation Integrator)
Title :
Last Update : Thu Aug 22 21:24:05 2002
Response via : Multiple Level Calibration
DataAcq Meth : PCB5.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Total Solids

Date : 8/23/02
Time : 4:23 PM

Environmental Science Corporation
LABORATORY BENCH SHEET

Date Created : 8/22/02 3:40:40 PM
By Analyst : 036 037
EPA Method : 2540G

Test Abbrev : TS
Test Name : Total Solids (2540G)
Date Analyzed : 8/23/02 9:24:43 AM

WORKGROUP : **WG81410**

ACCTNUM	SAMPLE #		Vessel No.	B Dish Weight	C Weight Wet Sample	A1 Final Weight (g)	A2 Final Weight (g)	(A1-B)*100 / C-B	100 - % TS = % Moist	QC Value (For QC Samples)
GRIFFITH	L87026-02	SS	1	1.2539	12.0372	10.0245	10.0247	81.335027 %	18.664972 %	0 %
GRIFFITH	L87026-03	SS	2	1.2558	13.0168	10.9408	10.9409	82.348439 %	17.651560 %	0 %
GRIFFITH	L87026-04	SS	3	1.258	13.3135	11.3138	11.3138	83.412550 %	16.587449 %	0 %
CIVILMO	L87094-01	SS	4	1.258	12.3884	4.0021	4.0021	24.654100 %	75.345899 %	0 %
CIVILMO	L87094-02	SS	5	1.2476	13.3337	11.1178	11.1179	81.665715 %	18.334284 %	0 %
CIVILMO	L87094-03	SS	6	1.2497	12.7244	10.7006	10.7009	82.362937 %	17.637062 %	0 %
WILGASKS	L87096-02	SS	7	1.2545	13.5905	12.8758	12.8758	94.206387 %	5.7936122 %	0 %
WILGASKS	L87096-04	SS	8	1.2538	13.6027	13.0655	13.0655	95.649815 %	4.350185 %	0 %
WILGASKS	L87096-05	SS	9	1.2552	13.8297	13.1696	13.1696	94.750487 %	5.2495129 %	0 %
UNSCIR	L87097-01	SS	10	1.2554	13.5601	11.0522	11.0524	79.618357 %	20.381642 %	0 %
	L87096-02D	SS	11	1.2556	13.4157	12.7876	12.7879	94.834746 %	5.1652536 %	0.6648 %
UNSCIR	L87097-02	SS	12	1.257	13.0555	10.735	10.735	80.332245 %	19.667754 %	0 %
UNSCIR	L87097-03	SS	13	1.2438	12.2557	9.9065	9.9067	78.666715 %	21.333284 %	0 %
UNSCIR	L87097-04	SS	14	1.2572	14.3054	11.5972	11.5973	79.244646 %	20.755353 %	0 %

LCS TV : 50
LCS LOT # : BW062701C009 Quality Control : Reviewed By _____ Date 082302

Date : 8/23/02
Time : 4:23 PM

Environmental Science Corporation
LABORATORY BENCH SHEET

Date Created : 8/22/02 3:40:40 PM
By Analyst : 036
EPA Method : 2540G

Test Abbrev : TS
Test Name : Total Solids (2540G)
Date Analyzed : 8/23/02 9:24:43 AM

WORKGROUP : **WG81410**

ACCTNUM	SAMPLE #		Vessel No.	B Dish Weight	C Weight Wet Sample	A1 Final Weight (g)	A2 Final Weight (g)	(A1-B)*100 / C-B	100 - % TS = % Moist	QC Value (For QC Samples)
UNSCIR	L87097-05	SS	15	1.2546	13.1752	10.7558	10.756	79.704041 %	20.295958 %	0 %
UNSCIR	L87097-06	SS	16	1.2522	13.9391	11.6195	11.6195	81.716573 %	18.283426 %	0 %
UNSCIR	L87097-07	SS	17	1.2462	13.1384	10.879	10.879	81.000992 %	18.999007 %	0 %
JUPITER	L87159-01	SS	18	1.254	13.9364	12.2282	12.2284	86.530940 %	13.469059 %	0 %
TBENG	L87162-02	SS	19	1.2561	14.9145	13.4891	13.4892	89.563931 %	10.436068 %	0 %
	Blank		20	1.2576	1.2576	1.2565	1.2565	0%	0%	0 %
	LCS		21	1.2537	11.2594	6.2562	6.2562	49.996502 %	50.003498 %	99.993 %
	L87159-01D	SS	22	1.2555	13.3622	11.6017	11.6018	85.458465 %	14.541534 %	1.2471 %

LCS TV : 50
LCS LOT # : BW062701C009 Quality Control : Reviewed By _____ Date _____

104

Williams Gas Pipeline Central

13424 West 98th Street
Shawnee Mission,KS 66215

Alternate billing information:

Chain of Custody
Page 1 of 1

Q7D1497

Prepared by:
ENVIRONMENTAL SCIENCE CORP.
12065 Lebanon Road
Mt. Juliet, TN 37122
Phone (800) 767-5859
FAX (615) 758-5859

Report to: Mr. Mark Sullivan
Email: cfortey@atkinsbenham.com,

Project Description: Williams Buffalo PCB Project
City/State Collected: Harper County, Oklahoma

Phone: (913) 310-7625
FAX: (913) 310-7630
Client Project #: 2203401
Lab Project #: WILGASKS-ATKINS

Collected by (print): Bruce McKenzie
Site/Facility ID#: BUFFALO
P.O.#: —

Collected by (signature): [signature]
Packed on Ice N Y ✓

Rush? (Lab MUST Be Notified)
__Same Day 200%
✓ Next Day 100%
__ Two Day 50%

Date Results Needed: 8-23-02
Email? __No X Yes
FAX? __No __Yes

CoCode: WILGASKS (lab use only)
Template/Prelogin: T15458/P61944
Cooler #:
Shipped Via: FedEX Standard

Analysis/Container/Preservative

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	8082 WIPE 4ozClr-NoPres	SV8082 PCB's 1L-Amb NoPres	SV8082 PCB's 4ozClr-NoPres	Total Solids 4ozClr-NoPres			Remarks/Contaminant	Sample # (lab only)
BUFEQ-03	Grab	GW	—	8/21/02	0925	1		X						L87046-01
BUFAR-01	Comp	SS	—	8/21/02	0940	2			X	X				02
BUFDL-03	Grab	SS	—	8/21/02	0847	1	X							03
BUFAR-02	Comp	SS	—	8/21/02	1004	2			X	X				04
BUFAR-03	Comp	SS	—	8/21/02	1013	2			X	X				05

*Matrix: SS - Soil GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other_____

Remarks: THIS IS A QC4 DATA PACKAGE PROJECT / SOILS ARE TO REPORT IN DRY WEIGHT.

pH _____ Temp _____
Flow _____ Other _____

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Samples returned via: ☐ UPS ☑ FedEx ☐ Courier ☐	Condition: (lab use only)
[signature]	8/21/02	1510	[redacted]		Custody seal intact OK
Relinquished by: [redacted]	Date:	Time:	Received by: (S[redacted])	Temp: 4°C Bottles Received: 8	
Relinquished by: [redacted]ure)	Date:	Time:	Received for lab by: (Signature) [signature]	Date: 8/22/02 Time: 0945	pH Checked: NCF:

Environmental Science Corporation

Mount Juliet, TN

For: Williams Gas Pipeline
Buffalo PCB Project

Project #: 2203401

Login: L87214

Client Sample ID	Lab Sample ID.
BUFEQ-04	L87214-01
BUFPE-01	L87214-02
BUFDL-05	L87214-03
BLIND A	L87214-04
BUFPE-02	L87214-05
BUFPE-03	L87214-06

(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

EST. 1970

Environmental Science Corporation
Mount Juliet, TN

For: William Gas Pipeline Central
Project: Buffalo
Project # 2203401
QAD1499

SDG: L87214

September 13, 2002

Sample Receiving and handling

All samples were received at the correct temperature, in the proper containers, and with the appropriate preservatives. All method holding times were met.

METHOD – Polychlorinated Biphenyls by Method 8082

Laboratory Control Standard (LCS)

Sample L87214-01 was analyzed in analytic batch WG81517. The laboratory control standard recovery associated with this sample was within laboratory control limits.

Samples L87214-02 through L87214-06 were analyzed in analytic batch WG81519. The laboratory control standard recovery associated with these samples was within laboratory control limits.

Matrix Spike and Matrix Spike Duplicate (MS/MSD)

For analytic batch WG81517, matrix spike and matrix spike duplicate analysis was performed on the laboratory control sample. The spike recoveries and the relative percent difference were within laboratory control limits.

For analytic batch WG81519, matrix spike and matrix spike duplicate analysis was performed on client sample L87214-02. The spike recoveries and the relative percent difference were within laboratory control limits.

Blank Analysis
The method blanks and all continuing calibration blanks were below the method quantitation limit for all Arochlors.

Calibration
The SVGC#5 was initially calibrated on 8/23/02 for dual column analysis. The calibration verification standards were within method limits.

Environmental Science Corporation
Mount Juliet, TN

For: William Gas Pipeline Central
Project: Buffalo
Project # 2203401
QAD1499

SDG: L87214

Surrogates

The surrogate recoveries were within laboratory control limits for all samples and quality control samples except for the method blank for analytic batch WG81517. On the method blank for WG81517, the DCB recovery on column 2 was below the lower control limit.

Susan Murphy

Quality Control Specialist
Environmental Science Corp.

ENVIRONMENTAL
SCIENCE CORP.

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Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Ms. Cristina Fortey
Atkins Benham Inc.
2488 East 81 St. Suite 6000
Tulsa, OK 74137

August 26,2002

ESC Sample # : L87214-01

Date Received : August 23, 2002
Description : Williams Buffalo PCB Project

Site ID : BUFFALO

Sample ID : BUFEQ-04

Project # : 2203401

Collected By : Bruce McKenzie
Collection Date : 08/22/02 11:53

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Polychlorinated Biphenyls						
PCB 1016	BDL	0.00050	mg/l	8082	08/23/02	1
PCB 1221	BDL	0.00050	mg/l	8082	08/23/02	1
PCB 1232	BDL	0.00050	mg/l	8082	08/23/02	1
PCB 1242	BDL	0.00050	mg/l	8082	08/23/02	1
PCB 1248	BDL	0.00050	mg/l	8082	08/23/02	1
PCB 1254	BDL	0.00050	mg/l	8082	08/23/02	1
PCB 1260	BDL	0.00050	mg/l	8082	08/23/02	1
PCBs Surrogates						
Decachlorobiphenyl	45.		% Rec.	8082	08/23/02	1
Tetrachloro-m-xylene	59.		% Rec.	8082	08/23/02	1

Tom Mellette, ESC Representative

BDL - Below Detection Limit
Det. Limit - Estimated Quantitation Limit(EQL)

Laboratory Certification Numbers:
A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
KY - 90010, KYUST - 0016, NC - ENV375,DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233

Note:
The reported analytical results relate only to the sample submitted.
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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Ms. Cristina Fortey
Atkins Benham Inc.
2488 East 81 St. Suite 6000
Tulsa, OK 74137

August 26, 2002

ESC Sample # : L87214-02

Date Received : August 23, 2002
Description : Williams Buffalo PCB Project

Site ID : BUFFALO

Sample ID : BUFPE-01

Project # : 2203401

Collected By : Bruce McKenzie
Collection Date : 08/22/02 12:27

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	79.8		%	2540G	08/23/02	1
Polychlorinated Biphenyls						
PCB 1016	BDL	0.63	mg/kg	8082	08/23/02	1
PCB 1221	BDL	0.63	mg/kg	8082	08/23/02	1
PCB 1232	BDL	0.63	mg/kg	8082	08/23/02	1
PCB 1242	BDL	0.63	mg/kg	8082	08/23/02	1
PCB 1248	BDL	0.63	mg/kg	8082	08/23/02	1
PCB 1254	BDL	0.63	mg/kg	8082	08/23/02	1
PCB 1260	BDL	0.63	mg/kg	8082	08/23/02	1
PCBs Surrogates						
Decachlorobiphenyl	68.0		% Rec.	8082	08/23/02	1
Tetrachloro-m-xylene	57.0		% Rec.	8082	08/23/02	1

Tom Mallette, ESC Representative

Results listed are dry weight basis.
BDL - Below Detection Limit
Det. Limit - Estimated Quantitation Limit(EQL)

Laboratory Certification Numbers:
A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
KY - 90010, KYUST - 0016, NC - ENV375,DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233

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REPORT OF ANALYSIS

Ms. Cristina Fortey
Atkins Benham Inc.
2488 East 81 St. Suite 6000
Tulsa, OK 74137

August 26,2002

ESC Sample # : L87214-03

Date Received : August 23, 2002
Description : Williams Buffalo PCB Project

Site ID : BUFFALO

Sample ID : BUFDL-05

Project # : 2203401

Collected By : Bruce McKenzie
Collection Date : 08/22/02 08:43

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Polychlorinated Biphenyls						
PCB 1016	BDL	10.	ug/wipe	8082	08/23/02	20
PCB 1221	BDL	10.	ug/wipe	8082	08/23/02	20
PCB 1232	BDL	10.	ug/wipe	8082	08/23/02	20
PCB 1242	BDL	10.	ug/wipe	8082	08/23/02	20
PCB 1248	BDL	10.	ug/wipe	8082	08/23/02	20
PCB 1254	BDL	10.	ug/wipe	8082	08/23/02	20
PCB 1260	BDL	10.	ug/wipe	8082	08/23/02	20

Tom Mellette, ESC Representative

BDL - Below Detection Limit
Det. Limit - Estimated Quantitation Limit(EQL)

Laboratory Certification Numbers:
A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - 1-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
KY - 90010, KYUST - 0016, NC - ENV375,DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233

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REPORT OF ANALYSIS

Ms. Cristina Fortey
Atkins Benham Inc.
2488 East 81 St. Suite 6000
Tulsa, OK 74137

August 26,2002

ESC Sample # : L87214-04

Date Received : August 23, 2002
Description : Williams Buffalo PCB Project

Site ID : BUFFALO

Sample ID : BLIND A

Project # : 2203401

Collected By : Bruce McKenzie
Collection Date : 08/22/02 00:00

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	90.9		%	2540G	08/23/02	1
Polychlorinated Biphenyls						
PCB 1016	BDL	0.55	mg/kg	8082	08/23/02	10
PCB 1221	BDL	0.55	mg/kg	8082	08/23/02	10
PCB 1232	BDL	0.55	mg/kg	8082	08/23/02	10
PCB 1242	BDL	0.55	mg/kg	8082	08/23/02	10
PCB 1248	BDL	0.55	mg/kg	8082	08/23/02	10
PCB 1254	BDL	0.55	mg/kg	8082	08/23/02	10
PCB 1260	BDL	0.55	mg/kg	8082	08/23/02	10
PCBs Surrogates						
Decachlorobiphenyl	84.0		% Rec.	8082	08/23/02	10
Tetrachloro-m-xylene	80.0		% Rec.	8082	08/23/02	10

Tom Mellette, ESC Representative

Results listed are dry weight basis.
BDL - Below Detection Limit
Det. Limit - Estimated Quantitation Limit(EQL)

Laboratory Certification Numbers:
A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
KY - 90010, KYUST - 0016, NC - ENV375,DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233

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REPORT OF ANALYSIS

Ms. Cristina Fortey
Atkins Benham Inc.
2488 East 81 St. Suite 6000
Tulsa, OK 74137

August 26,2002

ESC Sample # : L87214-05

Date Received : August 23, 2002
Description : Williams Buffalo PCB Project

Site ID : BUFFALO

Sample ID : BUFPE-02

Project # : 2203401

Collected By : Bruce McKenzie
Collection Date : 08/22/02 14:00

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	91.0		%	2540G	08/23/02	1
Polychlorinated Biphenyls						
PCB 1016	BDL	0.55	mg/kg	8082	08/23/02	10
PCB 1221	BDL	0.55	mg/kg	8082	08/23/02	10
PCB 1232	BDL	0.55	mg/kg	8082	08/23/02	10
PCB 1242	BDL	0.55	mg/kg	8082	08/23/02	10
PCB 1248	BDL	0.55	mg/kg	8082	08/23/02	10
PCB 1254	BDL	0.55	mg/kg	8082	08/23/02	10
PCB 1260	BDL	0.55	mg/kg	8082	08/23/02	10
PCBs Surrogates						
Decachlorobiphenyl	90.0		% Rec.	8082	08/23/02	10
Tetrachloro-m-xylene	87.0		% Rec.	8082	08/23/02	10

Tom Mellette, ESC Representative

Results listed are dry weight basis.
BDL - Below Detection Limit
Det. Limit - Estimated Quantitation Limit(EQL)

Laboratory Certification Numbers:
A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
KY - 90010, KYUST - 0016, NC - ENV375,DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233

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REPORT OF ANALYSIS

Ms. Cristina Fortey
Atkins Benham Inc.
2488 East 81 St. Suite 6000
Tulsa, OK 74137

August 26,2002

ESC Sample # : L87214-06

Date Received : August 23, 2002
Description : Williams Buffalo PCB Project

Site ID : BUFFALO

Sample ID : BUFPE-03

Project # : 2203401

Collected By : Bruce McKenzie
Collection Date : 08/22/02 14:11

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	94.4		%	2540G	08/23/02	1
Polychlorinated Biphenyls						
PCB 1016	BDL	0.53	mg/kg	8082	08/23/02	10
PCB 1221	BDL	0.53	mg/kg	8082	08/23/02	10
PCB 1232	BDL	0.53	mg/kg	8082	08/23/02	10
PCB 1242	BDL	0.53	mg/kg	8082	08/23/02	10
PCB 1248	BDL	0.53	mg/kg	8082	08/23/02	10
PCB 1254	BDL	0.53	mg/kg	8082	08/23/02	10
PCB 1260	BDL	0.53	mg/kg	8082	08/23/02	10
PCBs Surrogates						
Decachlorobiphenyl	79.0		% Rec.	8082	08/23/02	10
Tetrachloro-m-xylene	47.0		% Rec.	8082	08/23/02	10

Tom Mellette, ESC Representative

Results listed are dry weight basis.
BDL - Below Detection Limit
Det. Limit - Estimated Quantitation Limit(EQL)

Laboratory Certification Numbers:
A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - 1-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
KY - 90010, KYUST - 0016, NC - ENV375,DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233

Note:
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The reported analytical results relate only to the sample submitted

Attachment A
List of Analytes with QC Qualifiers

Sample #	Analyte	Qualifier
L87214-03	PCB 1016	0
	PCB 1221	0
	PCB 1232	0
	PCB 1242	0
	PCB 1248	0
	PCB 1254	0
	PCB 1260	0
L87214-04	PCB 1016	0
	PCB 1221	0
	PCB 1232	0
	PCB 1242	0
	PCB 1248	0
	PCB 1254	0
	PCB 1260	0
	Decachlorobiphenyl	0
	Tetrachloro-m-xylene	0
L87214-05	PCB 1016	0
	PCB 1221	0
	PCB 1232	0
	PCB 1242	0
	PCB 1248	0
	PCB 1254	0
	PCB 1260	0
	Decachlorobiphenyl	0
	Tetrachloro-m-xylene	0
L87214-06	PCB 1016	0
	PCB 1221	0
	PCB 1232	0
	PCB 1242	0
	PCB 1248	0
	PCB 1254	0
	PCB 1260	0
	Decachlorobiphenyl	0
	Tetrachloro-m-xylene	0

Attachment B
Explanation of QC Qualifier Codes

Qualifier	Meaning
O	(ESC) Sample diluted due to matrix interferences that impaired the ability to make an accurate analytical determination. The detection limit is elevated in order to reflect the necessary dilution.

Qualifier Report Information

ESC utilizes sample and result qualifiers as set forth by the EPA Contract Laboratory Program and as required by most certifying bodies including NELAC. In addition to the EPA qualifiers adopted by ESC, we have implemented ESC qualifiers to provide more information pertaining to our analytical results. Each qualifier is designated in the qualifier explanation as either EPA or ESC. Data qualifiers are intended to provide the ESC client with more detailed information concerning the potential bias of reported data. Because of the wide range of constituents and variety of matrices incorporated by most EPA methods, it is common for some compounds to fall outside of established ranges. These exceptions are evaluated and all reported data is valid and useable unless qualified as 'R' (Rejected).

Definitions

Accuracy - The relationship of the observed value of a known sample to the true value of a known sample. Represented by percent recovery and relevant to samples such as: control samples, matrix spike recoveries, surrogate recoveries, etc.

Precision - The agreement between a set of samples or between duplicate samples. Relates to how close together the results are and is represented by Relative Percent Differrence.

Surrogate - Organic compounds that are similar in chemical composition, extraction, and chromotography to analytes of interest. The surrogates are used to determine the probable response of the group of analytes that are chemically related to the surrogate compound. Surrogates are added to the sample and carried through all stages of preparation and analyses.

TIC - Tentatively Identified Compound: Compounds detected in samples that are not target compounds, internal standards, system monitoring compounds, or surrogates.

Summary of Remarks For Samples Printed
08/26/02 at 12:16:44

TSR Signing Reports: 690

Sample: L87214-01 Account: WILGASKS Received: 08/23/02 09:45 Due Date: 08/26/02 00:00
QC4 Project Due by noon on 08/26/02
Sample: L87214-02 Account: WILGASKS Received: 08/23/02 09:45 Due Date: 08/26/02 00:00
QC4 Project
Sample: L87214-03 Account: WILGASKS Received: 08/23/02 09:45 Due Date: 08/26/02 00:00
QC4 Project
Sample: L87214-04 Account: WILGASKS Received: 08/23/02 09:45 Due Date: 08/26/02 00:00
QC4 Project
Sample: L87214-05 Account: WILGASKS Received: 08/23/02 09:45 Due Date: 08/26/02 00:00
QC4 Project
Sample: L87214-06 Account: WILGASKS Received: 08/23/02 09:45 Due Date: 08/26/02 00:00
QC4 Project

U.S. EPA - CLP

COVER PAGE - PESTICIDES/PCB ANALYSES DATA PACKAGE

Lab Name: Environmental Science Corporation Contract: Willams Gas & Pipeline

Lab Code: TN00003 Case No.: QAD1499 SAS No.: SDG No.: L87214

Matrix: Soil Analytic Batch: WG81519

EPA Sample No.	Lab Sample ID.
BUFEQ-04	L87214-01
BUFPE-01	L87214-02
BUFDL-05	L87214-03
BLIND A	L87214-04
BUFPE-02	L87214-05
BUFPE-03	L87214-06

Comments:

I certify that this data package accurately represents the information in the raw data found herein, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: William Mock William Mock

Date: 9/16/02 Brownies Manager

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Blank 1x WG81517

Lab Name: Environmental Science Corpor Contract: Willams Gas & Pipeline

Lab Code: TN00003 Case No.: QAD1499 SAS No.: _____ SDG No.: L87214

Matrix: (soil/water) Water Lab Sample ID: Blank 1x WG81517

Sample wt/vol: 15 (g/mL) g Lab File ID: 0823_18.D

% Moisture: _____ decanted: (Y/N) _____ Date Received: _____

Extraction: (SepF/Cont/Sonc) Micro Date Extracted: 08/17/02

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 08/23/02

Injection Volume: _____ (uL) Dilution Factor: 1

GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) mg/l	Q
12674-11-2 - - - - -	Aroclor-1016	0.0005	U
11104-28-2 - - - - -	Aroclor-1221	0.0005	U
11141-16-5 - - - - -	Aroclor-1232	0.0005	U
53469-21-9 - - - - -	Aroclor-1242	0.0005	U
12672-29-6 - - - - -	Aroclor-1248	0.0005	U
11097-69-1 - - - - -	Aroclor-1254	0.0005	U
11096-82-5 - - - - -	Aroclor-1260	0.0005	U

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Blank 1x WG81519

Lab Name: Environmental Science Corpor Contract: Willams Gas & Pipeline

Lab Code: TN00003 Case No.: QAD1499 SAS No.: _____ SDG No.: L87214

Matrix: (soil/water) Soil Lab Sample ID: Blank 1x WG81519

Sample wt/vol: 15 (g/mL) g Lab File ID: 0823_25.D

% Moisture: _____ decanted: (Y/N) _____ Date Received: _____

Extraction: (SepF/Cont/Sonc) Micro Date Extracted: 08/17/02

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 08/23/02

Injection Volume: _____ (uL) Dilution Factor: 1

GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) mg/kg	Q
12674-11-2 - - - - -	Aroclor-1016	0.20	U
11104-28-2 - - - - -	Aroclor-1221	0.20	U
11141-16-5 - - - - -	Aroclor-1232	0.40	U
53469-21-9 - - - - -	Aroclor-1242	0.20	U
12672-29-6 - - - - -	Aroclor-1248	0.20	U
11097-69-1 - - - - -	Aroclor-1254	0.20	U
11096-82-5 - - - - -	Aroclor-1260	0.20	U

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

LCS 1x WG81517

Lab Name: Environmental Science Corpor Contract: Willams Gas & Pipeline

Lab Code: TN00003 Case No.: QAD1499 SAS No.: _____ SDG No.: L87214

Matrix: (soil/water) Water Lab Sample ID: LCS 1x WG81517

Sample wt/vol: 15 (g/mL) g Lab File ID: 0823_19.D

% Moisture: _____ decanted: (Y/N) _____ Date Received: _____

Extraction: (SepF/Cont/Sonc) Micro Date Extracted: 08/17/02

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 08/23/02

Injection Volume: _____ (uL) Dilution Factor: 1

GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) mg/l	Q
12674-11-2	Aroclor-1016	0.20	U
11104-28-2	Aroclor-1221	0.20	U
11141-16-5	Aroclor-1232	0.20	U
53469-21-9	Aroclor-1242	0.20	U
12672-29-6	Aroclor-1248	0.20	U
11097-69-1	Aroclor-1254	0.20	U
11096-82-5	Aroclor-1260	0.41	

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

LCSD 1x WG81517

Lab Name: Environmental Science Corpor Contract: Willams Gas & Pipeline

Lab Code: TN00003 Case No.: QAD1499 SAS No.: _____ SDG No.: L87214

Matrix: (soil/water) Water Lab Sample ID: LCSD 1x WG81517

Sample wt/vol: 15 (g/mL) g Lab File ID: 0823_20.D

% Moisture: _____ decanted: (Y/N) _____ Date Received: _____

Extraction: (SepF/Cont/Sonc) Micro Date Extracted: 08/17/02

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 08/23/02

Injection Volume: _____ (uL) Dilution Factor: 1

GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) mg/l	Q
12674-11-2 - - - - -	Aroclor-1016	0.20	U
11104-28-2 - - - - -	Aroclor-1221	0.20	U
11141-16-5 - - - - -	Aroclor-1232	0.20	U
53469-21-9 - - - - -	Aroclor-1242	0.20	U
12672-29-6 - - - - -	Aroclor-1248	0.20	U
11097-69-1 - - - - -	Aroclor-1254	0.20	U
11096-82-5 - - - - -	Aroclor-1260	0.31	

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

LCS 1x WG81519

Lab Name: Environmental Science Corpor Contract: Willams Gas & Pipeline

Lab Code: TN00003 Case No.: QAD1499 SAS No.: _____ SDG No.: L87214

Matrix: (soil/water) Soil Lab Sample ID: LCS 1x WG81519

Sample wt/vol: 15 (g/mL) g Lab File ID: 0823_26.D

% Moisture: _____ decanted: (Y/N) _____ Date Received: _____

Extraction: (SepF/Cont/Sonc) Micro Date Extracted: 08/17/02

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 08/23/02

Injection Volume: _____ (uL) Dilution Factor: 1

GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) mg/kg	Q
12674-11-2 - - - - -	Aroclor-1016	0.20	U
11104-28-2 - - - - -	Aroclor-1221	0.20	U
11141-16-5 - - - - -	Aroclor-1232	0.20	U
53469-21-9 - - - - -	Aroclor-1242	0.20	U
12672-29-6 - - - - -	Aroclor-1248	0.20	U
11097-69-1 - - - - -	Aroclor-1254	0.20	U
11096-82-5 - - - - -	Aroclor-1260	0.43	

1D

EPA SAMPLE NO.

PESTICIDE ORGANICS ANALYSIS DATA SHEET

LCSD 1x WG81519

Lab Name: Environmental Science Corpor Contract: Willams Gas & Pipeline

Lab Code: TN00003 Case No.: QAD1499 SAS No.: _____ SDG No.: L87214

Matrix: (soil/water) Soil Lab Sample ID: LCSD 1x WG81519

Sample wt/vol: 15 (g/mL) g Lab File ID: 0823_27.D

% Moisture: _____ decanted: (Y/N) _____ Date Received: _____

Extraction: (SepF/Cont/Sonc) Micro Date Extracted: 08/17/02

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 08/23/02

Injection Volume: _____ (uL) Dilution Factor: 1

GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) mg/kg	Q
12674-11-2 - - - - -	Aroclor-1016	0.20	U
11104-28-2 - - - - -	Aroclor-1221	0.20	U
11141-16-5 - - - - -	Aroclor-1232	0.20	U
53469-21-9 - - - - -	Aroclor-1242	0.20	U
12672-29-6 - - - - -	Aroclor-1248	0.20	U
11097-69-1 - - - - -	Aroclor-1254	0.20	U
11096-82-5 - - - - -	Aroclor-1260	0.40	

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MS 1x WG81519

Lab Name: Environmental Science Corpor Contract: Willams Gas & Pipeline

Lab Code: TN00003 Case No.: QAD1499 SAS No.: _____ SDG No.: L87214

Matrix: (soil/water) Soil Lab Sample ID: MS 1x WG81519

Sample wt/vol: 15 (g/mL) g Lab File ID: 0823_35.D

% Moisture: _____ decanted: (Y/N) _____ Date Received: _____

Extraction: (SepF/Cont/Sonc) Micro Date Extracted: 08/17/02

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 08/23/02

Injection Volume: _____ (uL) Dilution Factor: 10

GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) mg/kg	Q
12674-11-2 - - - - -	Aroclor-1016	0.20	U
11104-28-2 - - - - -	Aroclor-1221	0.20	U
11141-16-5 - - - - -	Aroclor-1232	0.20	U
53469-21-9 - - - - -	Aroclor-1242	0.20	U
12672-29-6 - - - - -	Aroclor-1248	0.20	U
11097-69-1 - - - - -	Aroclor-1254	0.20	U
11096-82-5 - - - - -	Aroclor-1260	0.37	

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MSD 1x WG81519

Lab Name: Environmental Science Corpor Contract: Willams Gas & Pipeline

Lab Code: TN00003 Case No.: QAD1499 SAS No.: _____ SDG No.: L87214

Matrix: (soil/water) Soil Lab Sample ID: MSD 1x WG81519

Sample wt/vol: 15 (g/mL) g Lab File ID: 0823_36.D

% Moisture: _____ decanted: (Y/N) _____ Date Received: _____

Extraction: (SepF/Cont/Sonc) Micro Date Extracted: 08/17/02

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 08/23/02

Injection Volume: _____ (uL) Dilution Factor: 10

GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) mg/kg	Q
12674-11-2 - - - - -	Aroclor-1016	0.20	U
11104-28-2 - - - - -	Aroclor-1221	0.20	U
11141-16-5 - - - - -	Aroclor-1232	0.20	U
53469-21-9 - - - - -	Aroclor-1242	0.20	U
12672-29-6 - - - - -	Aroclor-1248	0.20	U
11097-69-1 - - - - -	Aroclor-1254	0.20	U
11096-82-5 - - - - -	Aroclor-1260	0.38	

2F

SOIL PESTICIDE SURROGATE RECOVERY

Lab Name: Environmental Science Corporation Contract: Willams Gas & Pipeline

Lab Code: TN00003 Case No.: QAD1499 SAS No.: SDG No.: L87214

GC Column(1): RTX-CLP Pest 1 GC Column(2): RTX-CLP Pest 2

	Lab SAMPLE NO.	TCX 1 %REC	#	TCX 2 %REC	#	DCB 1 %REC	#	DCB 2 %REC	#	OTHER (2)	TOT OUT
01	Blank 1x WG81517	33%	*	34%	*	58%		40%	*		2
02	LCS 1x WG81517	48%		50%		80%		63%			0
03	LCSD 1x WG81517	52%		54%		62%		58%			0
04	L87214-01 1x	59%		62%		45%		43%			0
05											
06											
07											
08											
09											
10											
11											
12											
13											
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25											
26											
27											
28											
29											
30											

ADVISORY
QC LIMITS

TCX = Tetrachloro-m-xylene (41-145)

DCB = Decachlorobiphenyl (39-137)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D Surrogate diluted out

2F

SOIL PESTICIDE SURROGATE RECOVERY

Lab Name: Environmental Science Corporation Contract: Willams Gas & Pipeline

Lab Code: TN00003 Case No.: QAD1499 SAS No.: SDG No.: L87214

GC Column(1): RTX-CLP Pest 1 GC Column(2): RTX-CLP Pest 2

	Lab SAMPLE NO.	TCX 1 %REC	#	TCX 2 %REC	#	DCB 1 %REC	#	DCB 2 %REC	#	OTHER (2)	TOT OUT
01	Blank 1x WG81519	62%		64%		77%		64%			0
02	LCS 1x WG81519	66%		68%		84%		70%			0
03	LCSD 1x WG81519	65%		66%		81%		68%			0
04	MS 1x WG81519	57%		54%		75%		59%			0
05	MSD 1x WG81519	61%		56%		70%		59%			0
06	L87214-02 1x	57%		57%		68%		57%			0
07	L87214-04 10x	80%		73%		84%		73%			0
08	L87214-06 10x	47%		43%		79%		43%			0
09	L87214-03	57%		53%		91%		98%			0
10	L87214-05 10x	87%		81%		90%		88%			0
11											
12											
13											
14											
15											
16											
17											
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26											
27											
28											
29											
30											

ADVISORY QC LIMITS

TCX = Tetrachloro-m-xylene (41-145)

DCB = Decachlorobiphenyl (39-137)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D Surrogate diluted out

3F

SOIL PESTICIDE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Environmental Science Corporation Contract: Willams Gas & Pipeline

Lab Code: TN00003 Case No.: QAD1499 SAS No.: SDG No.: L87214

Matrix Spike - Lab Sample No.: LCS/LCSD

COMPOUND		SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	#	QC. LIMITS REC.
1260							
	1	0.5	0 U	0.362			
	2	0.5	0 U	0.385			
	3	0.5	0 U	0.388			
	4	0.5	0 U	0.489	81.2%		49-142

COMPOUND		SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	#	% RPD	#	QC LIMITS RPD	QC LIMITS REC.
1260									
	1	0.5	0.379						
	2	0.5	0.403						
	3	0.5	0.392						
	4	0.5	0.459	81.7%		1		49-142	12

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

* Values outside of QC limits

RPD: 0 out of 1 outside limits

Spike Recovery: 0 out of 2 outside limits

COMMENTS:

3F

SOIL PESTICIDE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Environmental Science Corporation Contract: Willams Gas & Pipeline

Lab Code: TN00003 Case No.: QAD1499 SAS No.: SDG No.: L87214

Matrix Spike - Lab Sample No.: L87214-02

COMPOUND		SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	#	QC. LIMITS REC.
1260							
	1	0.5	0	0.328			
	2	0.5	0	0.365			
	3	0.5	0	0.357			
	4	0.5	0	0.437	74.4%		49-142

COMPOUND		SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	#	% RPD	#	QC LIMITS RPD	QC LIMITS REC.
1260									
	1	0.5	0.351						
	2	0.5	0.376						
	3	0.5	0.363						
	4	0.5	0.438	76.4%		3		49-142	12

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

* Values outside of QC limits

RPD: 1 out of 1 outside limits

Spike Recovery: 2 out of 2 outside limits

COMMENTS: High concentration of Arochlor 1254 interfered with the ability to make an accurate 1260 spike determination.

3F

SOIL PESTICIDE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Environmental Science Corporation Contract: Willams Gas & Pipeline

Lab Code: TN00003 Case No.: QAD1499 SAS No.: SDG No.: L87214

Matrix Spike - Lab Sample No.: LCS/LCSD

COMPOUND		SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	#	QC. LIMITS REC.
1260							
	1	0.5	0 U	0.390			
	2	0.5	0 U	0.407			
	3	0.5	0 U	0.405			
	4	0.5	0 U	0.521	86.2%		49-142

COMPOUND		SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	#	% RPD	#	QC LIMITS RPD	QC LIMITS REC.
1260									
	1	0.5	0.390						
	2	0.5	0.418						
	3	0.5	0.407						
	4	0.5	0.514	86.5%		0		49-142	12

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

* Values outside of QC limits

RPD: 0 out of 1 outside limits

Spike Recovery: 0 out of 2 outside limits

COMMENTS:

4C

PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

Blank 1x WG81517

Lab Name: Environmental Science Corporati Contract: Willams Gas & Pipeline

Lab Code: TN00003 Case No.: QAD149 SAS No.: SDG No.: L87214

Lab Sample ID: Blank 1x WG81517 Lab File ID: 0823_18.D

Matrix: (soil/water) Water Extraction:(SepF/Cont/Sonc) Micro

Sulfur Cleanup: (Y/N) N Date Extracted: 08/17/02

Date Analyzed (1): 08/23/02 Date Analyzed (2): 08/23/02

Time Analyzed (1): 11:58 Time Analyzed (2): 11:58

Instrument ID (1): SVGC#5 Instrument ID (2): SVGC#5

GC Column(1): RTX-CLP Pest 1 GC Column(2): RTX-CLP Pest 2 ID: .32 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	Blank 1x WG81517	Blank 1x WG81517	08/23/02	08/23/02
02	LCS 1x WG81517	LCS 1x WG81517	08/23/02	08/23/02
03	LCSD 1x WG81517	LCSD 1x WG81517	08/23/02	08/23/02
04	BUFPE-01	L87214-01 1x	08/23/02	08/23/02
05				
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
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21				
22				
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24				
25				
26				
27				

COMMENTS:

4C

PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

Blank 1x WG81519

Lab Name: Environmental Science Corporati Contract: Willams Gas & Pipeline

Lab Code: TN00003 Case No.: QAD149 SAS No.: SDG No.: L87214

Lab Sample ID: Blank 1x WG81519 Lab File ID: 0823_25.D

Matrix: (soil/water) Soil Extraction:(SepF/Cont/Sonc) Micro

Sulfur Cleanup: (Y/N) N Date Extracted: 08/17/02

Date Analyzed (1): 08/23/02 Date Analyzed (2): 08/23/02

Time Analyzed (1): 11:58 Time Analyzed (2): 11:58

Instrument ID (1): SVGC#5 Instrument ID (2): SVGC#5

GC Column(1): RTX-CLP Pest 1 GC Column(2): RTX-CLP Pest 2 ID: .32 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	Blank 1x WG81519	Blank 1x WG81519	08/23/02	08/23/02
02	LCS 1x WG81519	LCS 1x WG81519	08/23/02	08/23/02
03	LCSD 1x WG81519	LCSD 1x WG81519	08/23/02	08/23/02
04	MS 1x WG81519	MS 1x WG81519	08/23/02	08/23/02
05	MSD 1x WG81519	MSD 1x WG81519	08/23/02	08/23/02
06	BUFPE-01	L87214-02 1x	08/23/02	08/23/02
07	BLIND A	L87214-04 10x	08/23/02	08/23/02
08	BUFPE-03	L87214-06 10x	08/23/02	08/23/02
09	BUFDL-05	L87214-03	08/23/02	08/23/02
10	BUFPE-02	L87214-05 10x	08/23/02	08/23/02
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				

COMMENTS:

6F

PESTICIDE INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: Environmental Science Corporation Contract: Willams Gas & Pipeline

Lab Code: TN00003 Case No.: QAD1499 SAS No.: _____ SDG No.: L87214

Insrument ID: SVGC#5 Date(s) Analyzed: _____ _____

GC Column: RTX CLP Pest 1

First Column: COMPOUND	AMOUNT (ppm)	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR
Aroclor 1016	0.5	*1	4.03	3.98	4.08	1.002 E6
		*2	4.43	4.38	4.48	1.901 E6
		*3	5.09	5.04	5.14	1.404 E6
		4	5.16	5.11	5.21	8.948 E5
		5				
Aroclor 1254	1.0	*1	5.29	5.24	5.34	1.206 E6
		*2	5.53	5.48	5.58	5.831 E5
		*3	6.57	6.52	6.62	2.275 E6
		4	7.02	6.97	7.07	1.545 E6
		5				
Aroclor 1260	0.5	*1	6.43	6.38	6.48	5.859 E5
		*2	6.73	6.68	6.78	1.967 E6
		*3	7.28	7.23	7.33	2.997 E6
		4	7.92	7.87	7.97	3.715 E6
		5				

Second Column COMPOUND	AMOUNT (ppm)	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR
Aroclor 1016	0.5	*1	4.07	4.02	4.12	1.002 E6
		*2	4.52	4.47	4.57	1.901 E6
		*3	5.00	4.95	5.05	1.404 E6
		4	5.14	5.09	5.19	8.948 E5
		5				
Aroclor 1254	1.0	*1	5.64	5.59	5.69	6.098 E5
		*2	5.76	5.71	5.81	2.637 E5
		*3	6.70	6.65	6.75	2.643 E6
		4	7.09	7.04	7.14	1.189 E6
		5				
Aroclor 1260	0.5	*1	6.57	6.52	6.62	5.859 E5
		*2	6.87	6.82	6.92	1.967 E6
		*3	7.42	7.37	7.47	2.997 E6
		4	8.03	7.98	8.08	3.715 E6
		5				

* Denotes required peaks

7E

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: Environmental Science Corporation Contract: Willams Gas & Pipeline

Lab Code: TN00003 Case No.: QAD1499 SAS No.: SDG No.: L87214

Primary Analysis: Init. Calib. Date(s):

Arochlor 1016/1260 Date Analyzed: 08/23/02

Instrument: SVGC#5 Time Analyzed: 19:00

Lab File ID: 0823_24.D

Archlor 1254 Date Analyzed: 08/23/02

Lab File ID: 0823_36.D Time Analyzed: 21:55

First Column: COMPOUND		RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
Arochlor 1016	1	4.04	3.98	4.08	0.571		
	2	4.43	4.38	4.48	0.528		
	3	5.09	5.04	5.14	0.540		
	4	5.16	5.11	5.21	0.557	0.500	10
Arochlor 1254	1	5.29	5.24	5.34	1.000		
	2	5.53	5.48	5.58	1.000		
	3	6.57	6.52	6.62	1.000		
	4	7.02	6.97	7.07	1.000	1.000	0
Arochlor 1260	1	6.43	6.38	6.48	0.574		
	2	6.73	6.68	6.78	0.530		
	3	7.28	7.23	7.33	0.545		
	4	7.92	7.87	7.97	0.546	0.500	10

Second Column: COMPOUND		RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
Arochlor 1016	1	4.07	4.02	4.12	0.514		
	2	4.52	4.47	4.57	0.513		
	3	5.00	4.95	5.05	0.517		
	4	5.14	5.09	5.19	0.524	0.500	3
Arochlor 1254	1	5.64	5.59	5.69	1.000		
	2	5.76	5.71	5.81	1.000		
	3	6.70	6.65	6.75	1.000		
	4	7.09	7.04	7.14	1.000	1.000	0
Arochlor 1260	1	6.57	6.52	6.62	0.540		
	2	6.87	6.82	6.92	0.508		
	3	7.42	7.37	7.47	0.510		
	4	8.03	7.98	8.08	0.516	0.500	4

7E

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: Environmental Science Corporation Contract: Willams Gas & Pipeline

Lab Code: TN00003 Case No.: QAD1499 SAS No.: _____ SDG No.: L87214

Primary Analysis: Init. Calib. Date(s): _____

Arochlor 1016/1260 Date Analyzed: 08/23/02

Instrument: SVGC#5 Time Analyzed: 19:00

Lab File ID: 0823_34.D

Archlor 1254 Date Analyzed: _____

Lab File ID: _____ Time Analyzed: _____

First Column: COMPOUND		RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
Arochlor 1016	1	4.04	3.98	4.08	0.571		
	2	4.44	4.38	4.48	0.528		
	3	5.10	5.04	5.14	0.540		
	4	5.17	5.11	5.21	0.557	0.500	10
Arochlor 1254	1						
	2						
	3						
	4						
Arochlor 1260	1	6.44	6.38	6.48	0.574		
	2	6.74	6.68	6.78	0.530		
	3	7.29	7.23	7.33	0.545		
	4	7.93	7.87	7.97	0.582	0.500	12

Second Column: COMPOUND		RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
Arochlor 1016	1	4.07	4.02	4.12	0.513		
	2	4.52	4.47	4.57	0.508		
	3	5.01	4.95	5.05	0.510		
	4	5.15	5.09	5.19	0.518	0.500	2
Arochlor 1254	1						
	2						
	3						
	4						
Arochlor 1260	1	6.58	6.52	6.62	0.520		
	2	6.88	6.82	6.92	0.496		
	3	7.43	7.37	7.47	0.499		
	4	8.03	7.98	8.08	0.504	0.500	1

8D

PESTICIDE ANALYTICAL SEQUENCE

Lab Name: Environmental Science Corporation Contract: Willams Gas & Pipeline

Lab Code: TN00003 Case No.: QAD1499 SAS No.: _____ SDG No.: L87214

GC Column: RTX-CLP Pest 1 Init. Calib. Date(s): _____ _____

Instrument ID: SVGC#5

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION

TCX: 3.60 DCB: 9.24

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	TXC RT #	DCB RT #
01	Blank 1x WG81517	Blank 1x WG8151	08/23/02	17:32	3.60	9.24
02	LCS 1x WG81517	LCS 1x WG81517	08/23/02	17:47	3.60	9.24
03	LCSD 1x WG81517	LCSD 1x WG81517	08/23/02	18:01	3.60	9.24
04	BUFPE-01	L87214-01 1x	08/23/02	18:16	3.60	9.24
05						
06						
07						
08						
09						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
23						
24						
25						
26						
27						
28						
29						
30						
31						
32						

QC LIMITS

TCX = Tetrachloro-m-xylene (± 0.05 MINUTES)

DCB = Decachlorobiphenyl (± 0.10 MINUTES)

Column used to flag retention time values with an asterisk.

* Values outside of QC limits.

8D

PESTICIDE ANALYTICAL SEQUENCE

Lab Name: Environmental Science Corporation Contract: Willams Gas & Pipeline

Lab Code: TN00003 Case No.: QAD1499 SAS No.: _____ SDG No.: L87214

GC Column: RTX-CLP Pest 1 Init. Calib. Date(s): _____ _____

Instrument ID: SVGC#5

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION

TCX: 3.60 DCB: 9.24

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	TXC RT #	DCB RT #
01	Blank 1x WG81519	Blank 1x WG8151	08/23/02	19:15	3.60	9.24
02	LCS 1x WG81519	LCS 1x WG81519	08/23/02	19:29	3.60	9.24
03	LCSD 1x WG81519	LCSD 1x WG81519	08/23/02	19:44	3.60	9.24
04	MS 1x WG81519	MS 1x WG81519	08/23/02	21:40	3.60	9.25
05	MSD 1x WG81519	MSD 1x WG81519	08/23/02	21:55	3.60	9.25
06	BUFPE-01	L87214-02 1x	08/23/02	19:58	3.60	9.24
07	BLIND A	L87214-04 10x	08/23/02	20:13	3.61	9.25
08	BUFPE-03	L87214-06 10x	08/23/02	20:27	3.61	9.25
09	BUFDL-05	L87214-03	08/23/02	20:42	3.61	9.25
10	BUFPE-02	L87214-05 10x	08/23/02	20:57	3.61	9.25
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
23						
24						
25						
26						
27						
28						
29						
30						
31						
32						

QC LIMITS

TCX = Tetrachloro-m-xylene (± 0.05 MINUTES)

DCB = Decachlorobiphenyl (± 0.10 MINUTES)

Column used to flag retention time values with an asterisk.

* Values outside of QC limits.

LABORATORY CONTROL SAMPLE
WG81519

Lab Name: Environmental Science Corporation Contract: Willams Gas & Pipeline

Lab Code: TN00003 Case No.: QAD1499 SAS No.: SDG No.: L87214

Solid LCS Source: Lab File ID: 0823_26.D

Aqueous LCS Source:

Analyte		True	Found	%R	Control Limits		Q
Arochlor 1260	1	0.5	0.390				
	2	0.5	0.407				
	3	0.5	0.405				
	4	0.5	0.521	86.2%	64%	129%	

LABORATORY CONTROL SAMPLE
WG81517

Lab Name: Environmental Science Corporation Contract: Willams Gas & Pipeline

Lab Code: TN00003 Case No.: QAD1499 SAS No.: SDG No.: L87214

Solid LCS Source: Lab File ID: 0823_19.D

Aqueous LCS Source:

Analyte		True	Found	%R	Control Limits		Q
Arochlor 1260	1	0.5	0.362				
	2	0.5	0.385				
	3	0.5	0.388				
	4	0.5	0.489	81.2%	64%	129%	

Polychlorinated Biphenyls
by
Method 8082

Raw Data

WATER EXTRACTION LOG

Environmental Science Corp.

DATE 8 23 02

NaSO4 Lot # 8132 ANALYST KK

Surrogate Std # 8082 Solvent Lot # 8207 MeCl2 Acetone Hexane MTBE Other

Spike Std # 7719 Solvent Lot # 8199 MeCl2 Acetone Hexane MTBE Other

PCB 1260
M. Spike Std # 7719 M.Spike Vol. Used 1.0 LC Spike Std# 7719 LC Spike Vol. Used 1.0mL

EXTRACTION METHOD 3510 FOR ANALYSIS METHOD 8082 SOP# 330702

Sample #	Initial pH	Volume Extracted	Solvent Volume Used	Final Volume	Surr. Volume Added	Solvent Exchange Vol.
Method Blank		1000mL	180mL	10mL	1.0mL	50 mL
LCS		↓	↓	↓	↓	Hexane
LCSD		↓	↓	↓	↓	Exchange
MS						
MSD						
1 L87214-01	SV8082	1000mL	180mL	10mL	1.0mL	50mL Hex Exchange
2 1DOC-1	↓	↓	↓	↓	↓	↓
3 1DOC-2	↓	↓	↓	↓	↓	↓
4 ~~1DOC-3~~	↓	↓	↓	↓	↓	↓
5 ~~1DOC-4~~	↓	↓	↓	↓	↓	↓
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						

G. Hardy 8-23-02

Reviewed by: K Rosace 8/23/02

Remarks/Observations (cont. on back) WG 81517

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SOILS/SOLIDS EXTRACTION LOG

Environmental Science Corp.

DATE 8/23/02

NaSO4 Lot # 8132 ANALYST MLG-368

Surrogate Std # 8082 Solvent Lot # 8207 (MeCl2) Acetone Hexane MTBE Other____

Solvent Lot # 8199 MeCl2 Acetone (Hexane) MTBE Other____

PCB (1260) M. Spike Std # 7719 M.Spike Vol. Used 1.0ml LC Spike Std# Same LC Spike Vol. Used 1.0ml

EXTRACTION METHOD 3550 FOR ANALYSIS METHOD 8082 SOP# 330705

Sample #	Wet Weight Extracted	Solvent Volume Used	Solvent Volume Rec.	Final Volume	Surr. Volume Added	Remarks/Observations
Method Blank	30.01g	300ml	≈260ml	10.0ml	1.0 ml	50ml Hexane Exchange
LCS	30.07g					
LCSD	30.08g					
MS L87214-02	30.04g					
MSD ↓	30.01g					
1 L86859-01	30.00g					
2 L87098-01	30.00g					
3 L87175-01	30.06g					
4 L87214-02	30.07g					
5 -03	wipe					
6 -04	30.09g					
7 -05	30.03g					
8 -06	30.05g					
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						

Reviewed by: K Roscoe 8/23/02

Remarks/Observations: (Con't on back if nec.)
WG8/5/9

Injection Log ~ 91218

Directory: C:\HPCHEM\1\DATA\082302 Svgc.5 8/25/02 KL

PCB7

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	1	0823_01.D	1.	hexane		23 Aug 2002 10:51
2	2	0823_02.D	1.	1016/1260 .75ppm		23 Aug 2002 11:06
3	3	0823_03.D	1.	Blank 1x 15-5	surr ESC8082	23 Aug 2002 11:21
4	4	0823_04.D	1.	idoc 1 1x 15-5	8/22 GM PCBspk ESC7740	23 Aug 2002 11:35
5	5	0823_05.D	1.	idoc 2 1x 15-5	8/22 GM PCBspk ESC7740	23 Aug 2002 11:50
6	6	0823_06.D	1.	idoc 3 1x 15-5	8/22 GM PCBspk ESC7740	23 Aug 2002 12:05
7	7	0823_07.D	1.	idoc 4 1x 15-5	8/22 GM PCBspk ESC7740	23 Aug 2002 12:19
8	8	0823_08.D	1.	hexane		23 Aug 2002 12:34
9	2	0823_09.D	1.	1016/1260 .25ppm		23 Aug 2002 12:49
10	10	0823_10.D	1.	1016/1260 .50ppm		23 Aug 2002 14:07
11	11	0823_11.D	1.	L86214-01 1x		23 Aug 2002 14:34
12	12	0823_12.D	1.	1016/1260 .05ppm	bs030104k30	23 Aug 2002 16:04
13	13	0823_13.D	1.	1016/1260 .10ppm	bs030104k30	23 Aug 2002 16:19
14	14	0823_14.D	1.	1016/1260 .25ppm	bs030104k30	23 Aug 2002 16:34
15	10	0823_15.D	1.	1016/1260 .50ppm		23 Aug 2002 16:48
16	15	0823_16.D	1.	1016/1260 .75ppm	bs030104k30	23 Aug 2002 17:03
17	16	0823_17.D	1.	1016/1260 1.0ppm	bs030104k30	23 Aug 2002 17:18
18	17	0823_18.D	1.	Blank 1x WG81517 1000-10	surr ESC8082	23 Aug 2002 17:32
19	18	0823_19.D	1.	LCS 1x WG81517 1000-10	spk ESC7740	23 Aug 2002 17:47
20	19	0823_20.D	1.	LCSD 1x WG81517 1000-10	kk 8/23/02 spk ESC7740	23 Aug 2002 18:01
21	20	0823_21.D	1.	L87214-01 1x WG81517 1000-10		23 Aug 2002 18:16
2	21	0823_22.D	1.	IDOC 1 1x 1000-10	kk 8/23/02 .5ppm PCB	23 Aug 2002 18:31
23	22	0823_23.D	1.	IDOC 2 1x 1000-10	kk 8/23/02 .5ppm PCB	23 Aug 2002 18:45
24	10	0823_24.D	1.	1016/1260 .50ppm	bx030104k30	23 Aug 2002 19:00
25	23	0823_25.D	1.	Blank 1x WG81519 30-10	surr ESC8082	23 Aug 2002 19:15
26	24	0823_26.D	1.	LCS 1x WG81519 30-10	spk ESC7719	23 Aug 2002 19:29
27	25	0823_27.D	1.	LCSD 1x WG81519 30-10	MG 8/23/02 spk ESC7719	23 Aug 2002 19:44
28	26	0823_28.D	1.	L87214-02 1x WG81519 30-10		23 Aug 2002 19:58
29	27	0823_29.D	10.	L87214-04 10x WG81519 30-10		23 Aug 2002 20:13
30	28	0823_30.D	10.	L87214-06 10x WG81519 30-10		23 Aug 2002 20:27
31	29	0823_31.D	20.	L87214-03 20x WG81519 wipe-10		23 Aug 2002 20:42
32	30	0823_32.D	10.	L87214-05 10x WG81519 30-10		23 Aug 2002 20:57
33	1	0823_33.D	1.	hexane		23 Aug 2002 21:11
34	10	0823_34.D	1.	1016/1260 .50ppm	bx030104k30	23 Aug 2002 21:26
35	31	0823_35.D	1.	MS 1x WG81519 L87214-02 30-10		23 Aug 2002 21:40
36	32	0823_36.D	1.	MSD 1x WG81519 L87214-02 30-10		23 Aug 2002 21:55
37	1	0823_37.D	1.	hexane		23 Aug 2002 22:09
38	10	0823_38.D	1.	1016/1260 .50ppm	bx030104k30	23 Aug 2002 22:24
39	33	0823_39.D	2.	L87098-01 2x WG81519 30-10		23 Aug 2002 22:38
40	34	0823_40.D	10.	L86859-01 10x WG81519 30-10		23 Aug 2002 22:53
41	35	0823_41.D RR	50.10x	L87175-01 50x WG81519 30-10		23 Aug 2002 23:07
42	1	0823_42.D	1.	hexane		23 Aug 2002 23:22
43	10	0823_43.D	1.	1016/1260 .50ppm	bx030104k30	23 Aug 2002 23:37
44	12	0823_44.D	1.	1254 1ppm	bx030104k30	24 Aug 2002 15:14
4	10	0823_45.D	1.	1016/1260 .50ppm	bx030104k30	24 Aug 2002 16:50
4c	2	0823_46.D	1.	Blank 1x WG81519 30-10	MG 8/23 surr ESC8082	24 Aug 2002 17:04
47	3	0823_47.D	10.	L87214-05 10x WG81519 30-10 H		24 Aug 2002 17:19

PCB7

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Injection Log

Directory: C:\HPCHEM\1\DATA\082302

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
4	4	0823_48.D	1.	LCS 1x WG81519 30-10	spk ESC7719	24 Aug 2002 17:33
45	5	0823_49.D	1.	LCSD 1x WG81519 30-10	spk ESC7719	24 Aug 2002 17:48
50	10	0823_50.D	1.	1016/1260 .50ppm	bx030104k30	24 Aug 2002 18:03

Quantitation Report (QT Reviewed)

#1 : D:\DATA\SVGC#5\082302\0823_18.D\ECD1A.CH Vial: 17
Signal #2 : D:\DATA\SVGC#5\082302\0823_18.D\ECD2B.CH
Acq On : 23 Aug 2002 5:32 pm Operator: 308
Sample : Blank 1x WG81517 1000-10 Inst : SVGC5
Misc : surr ESC8082 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Aug 23 17:44 2002 Quant Results File: PCB7.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB7.M (Chemstation Integrator)
Title :
Last Update : Fri Aug 23 17:36:41 2002
Response via : Initial Calibration
DataAcq Meth : PCB7.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound			R.T.	Response	Conc Units
System Monitoring Compounds					
1) s TCMX			3.60	1104894	0.066 µg/mL
Spiked Amount	0.200	Range	41 - 145	Recovery =	33.00%#
10) s DCB			9.24	1206425	0.115 µg/mL
Spiked Amount	0.200	Range	39 - 137	Recovery =	57.50%
12) s TCMX #2			3.49	995392	0.067 µg/mL
Spiked Amount	0.200	Range	41 - 145	Recovery =	33.50%#
21) s dcb #2			9.50	832214	0.080 µg/mL
Spiked Amount	0.200	Range	39 - 137	Recovery =	40.00%
Target Compounds					
2) m,t AROCHLOR 1016(1)			3.99	20977	0.051 µg/mL
3) m,t AROCHLOR 1016(2)			4.36f	23635	0.030 µg/mL
4) m,t AROCHLOR 1016(3)			0.00	0	N.D. µg/mL
5) m,t AROCHLOR 1016(4)			0.00	0	N.D. µg/mL
6) m,t AROCHLOR 1260(1)			0.00	0	N.D. µg/mL
7) m,t AROCHLOR 1260(2)			6.77	96464	0.112 µg/mL
8) m,t AROCHLOR 1260(3)			0.00	0	N.D. µg/mL
9) m,t AROCHLOR 1260(4)			0.00	0	N.D. µg/mL
13) m,t AROCHLOR 1016(1) #2			0.00	0	N.D. µg/mL
14) m,t AROCHLOR 1016(2) #2			0.00	0	N.D. µg/mL
15) m,t AROCHLOR 1016(3) #2			0.00	0	N.D. µg/mL
16) m,t AROCHLOR 1016(4) #2			0.00	0	N.D. µg/mL
17) m,t AROCHLOR 1260(1) #2			0.00	0	N.D. µg/mL
18) m,t AROCHLOR 1260(2) #2			0.00	0	N.D. µg/mL
19) m,t AROCHLOR 1260(3) #2			0.00	0	N.D. µg/mL
20) m,t AROCHLOR 1260(4) #2			0.00	0	N.D. µg/mL

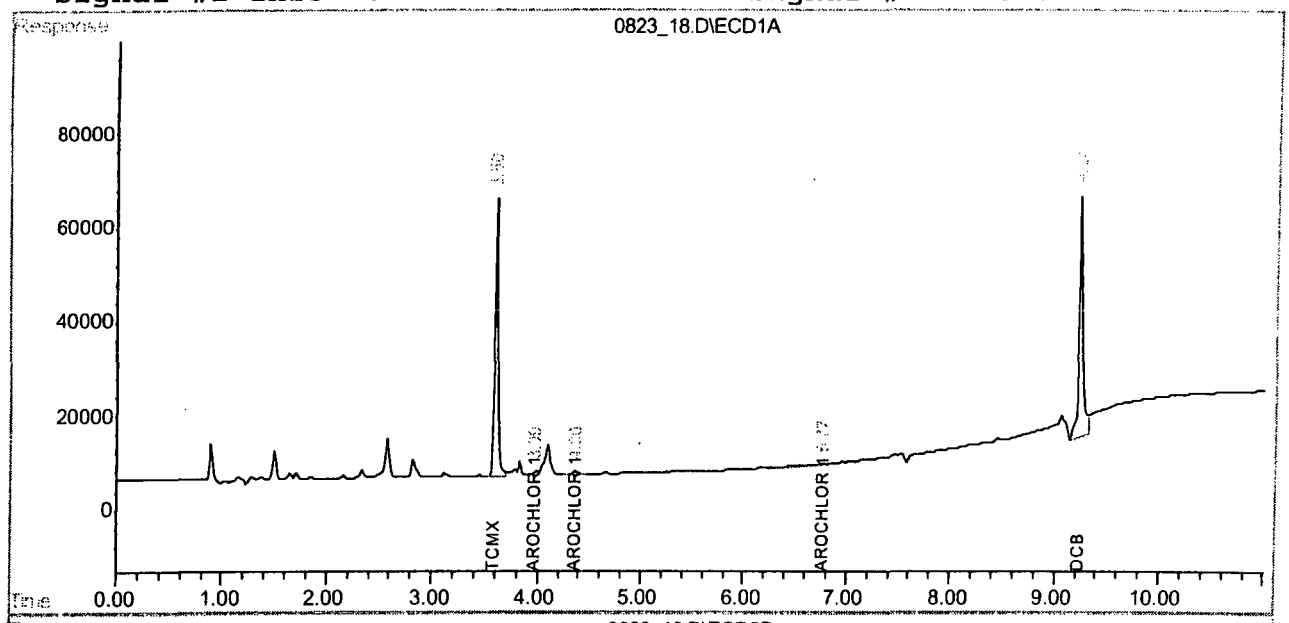
(f)=RT Delta > 1/2 Window (m)=manual int.

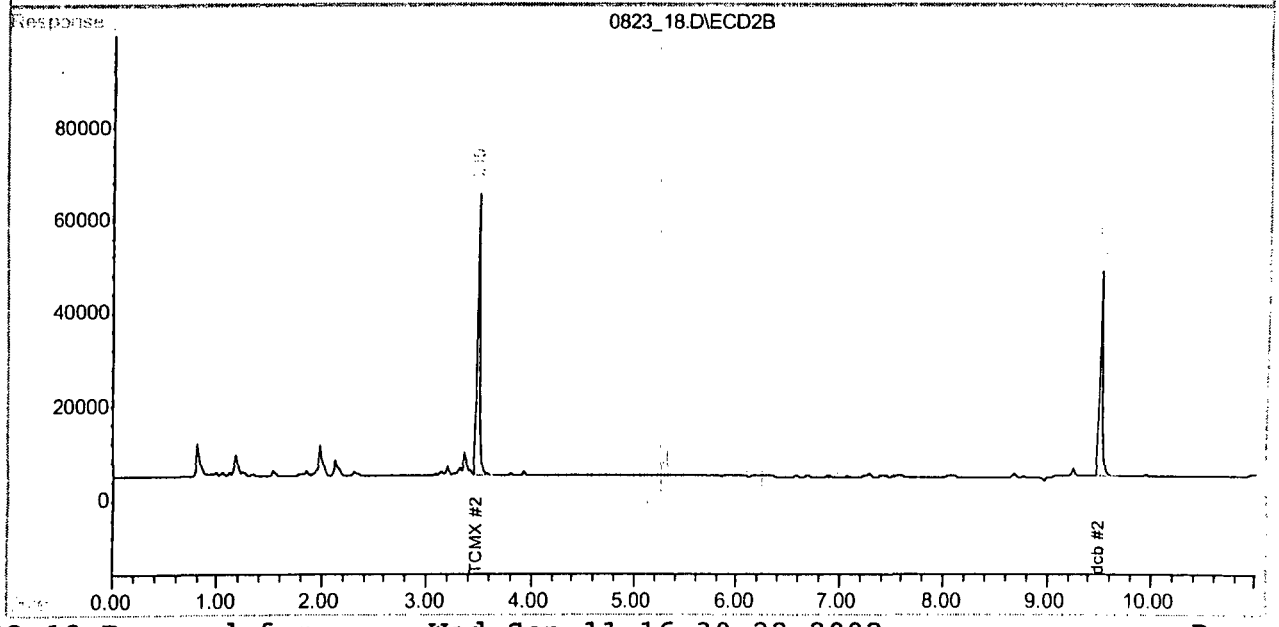
Quantitation Report (QT Reviewed)

Signal #1 : D:\DATA\SVGC#5\082302\0823_18.D\ECD1A.CH Vial: 17
Signal #2 : D:\DATA\SVGC#5\082302\0823_18.D\ECD2B.CH
Acq On : 23 Aug 2002 5:32 pm Operator: 308
Sample : Blank 1x WG81517 1000-10 Inst : SVGC5
Misc : surr ESC8082 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Aug 23 17:44 2002 Quant Results File: PCB7.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB7.M (Chemstation Integrator)
Title :
Last Update : Fri Aug 23 17:36:41 2002
Response via : Multiple Level Calibration
DataAcq Meth : PCB7.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Signal #1 : D:\DATA\SVGC#5\082302\0823_19.D\ECD1A.CH Vial: 18
Signal #2 : D:\DATA\SVGC#5\082302\0823_19.D\ECD2B.CH
Acq On : 23 Aug 2002 5:47 pm Operator: 308
Sample : LCS 1x WG81517 1000-10 Inst : SVGC5
Misc : spk ESC7740 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Aug 24 14:59 2002 Quant Results File: PCB7.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB7.M (Chemstation Integrator)
Title :
Last Update : Fri Aug 23 17:36:41 2002
Response via : Initial Calibration
DataAcq Meth : PCB7.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) s TCMX	3.60	1615958	0.096 µg/mL
Spiked Amount 0.200 Range 41 - 145		Recovery =	48.00%
10) s DCB	9.24	1663584	0.159 µg/mL
Spiked Amount 0.200 Range 39 - 137		Recovery =	79.50%
12) s TCMX #2	3.49	1466866	0.099 µg/mL
Spiked Amount 0.200 Range 41 - 145		Recovery =	49.50%
21) s dcb #2	9.50	1304863	0.125 µg/mL
Spiked Amount 0.200 Range 39 - 137		Recovery =	62.50%
Target Compounds			
2) m,t AROCHLOR 1016(1)	3.99	30860	0.075 µg/mL
3) m,t AROCHLOR 1016(2)	4.36f	34170	0.043 µg/mL
4) m,t AROCHLOR 1016(3)	0.00	0	N.D. µg/mL
5) m,t AROCHLOR 1016(4)	0.00	0	N.D. µg/mL
6) m,t AROCHLOR 1260(1)	6.43	90398	0.362 µg/mL
7) m,t AROCHLOR 1260(2)	6.73	331217	0.385 µg/mL
8) m,t AROCHLOR 1260(3)	7.28	475701	0.388 µg/mL
9) m,t AROCHLOR 1260(4)	7.92	632538	0.489 µg/mL
13) m,t AROCHLOR 1016(1) #2	0.00	0	N.D. µg/mL
14) m,t AROCHLOR 1016(2) #2	0.00	0	N.D. µg/mL
15) m,t AROCHLOR 1016(3) #2	0.00	0	N.D. µg/mL
16) m,t AROCHLOR 1016(4) #2	0.00	0	N.D. µg/mL
17) m,t AROCHLOR 1260(1) #2	6.57	23055	0.299 µg/mL
18) m,t AROCHLOR 1260(2) #2	6.87	327270	0.362 µg/mL
19) m,t AROCHLOR 1260(3) #2	7.42	467508	0.354 µg/mL
20) m,t AROCHLOR 1260(4) #2	8.03	560840	0.429 µg/mL

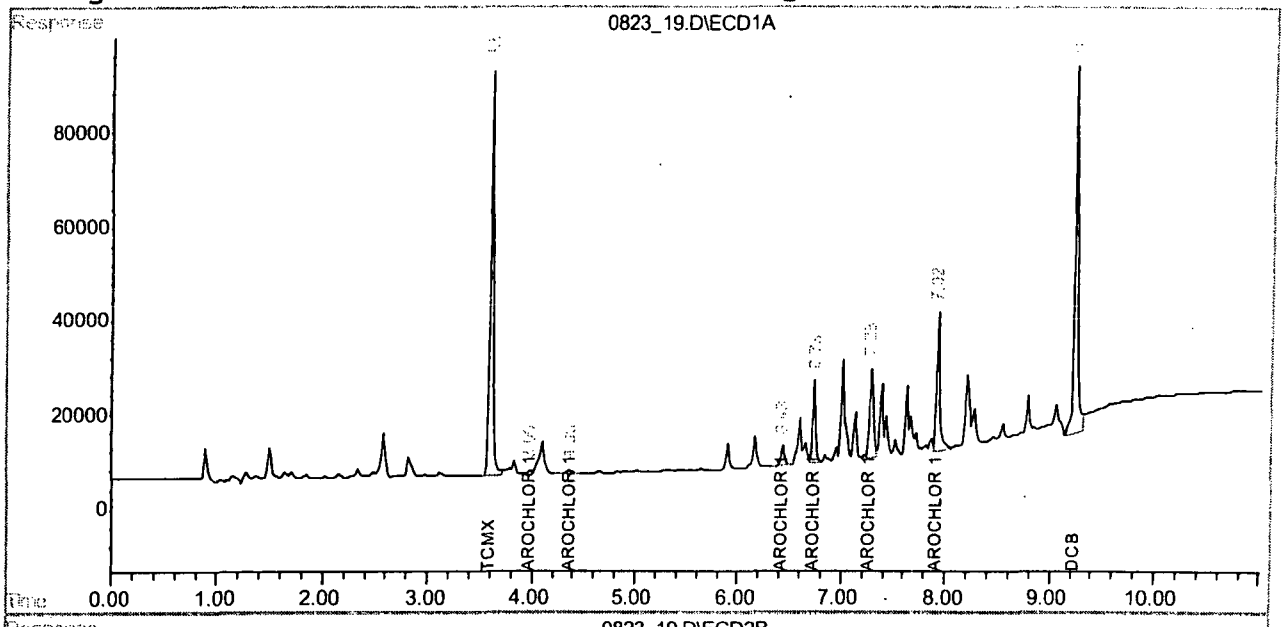
(f)=RT Delta > 1/2 Window (m)=manual int.
0823_19.D envdef.m Wed Sep 11 16:30:40 2002 Page 1

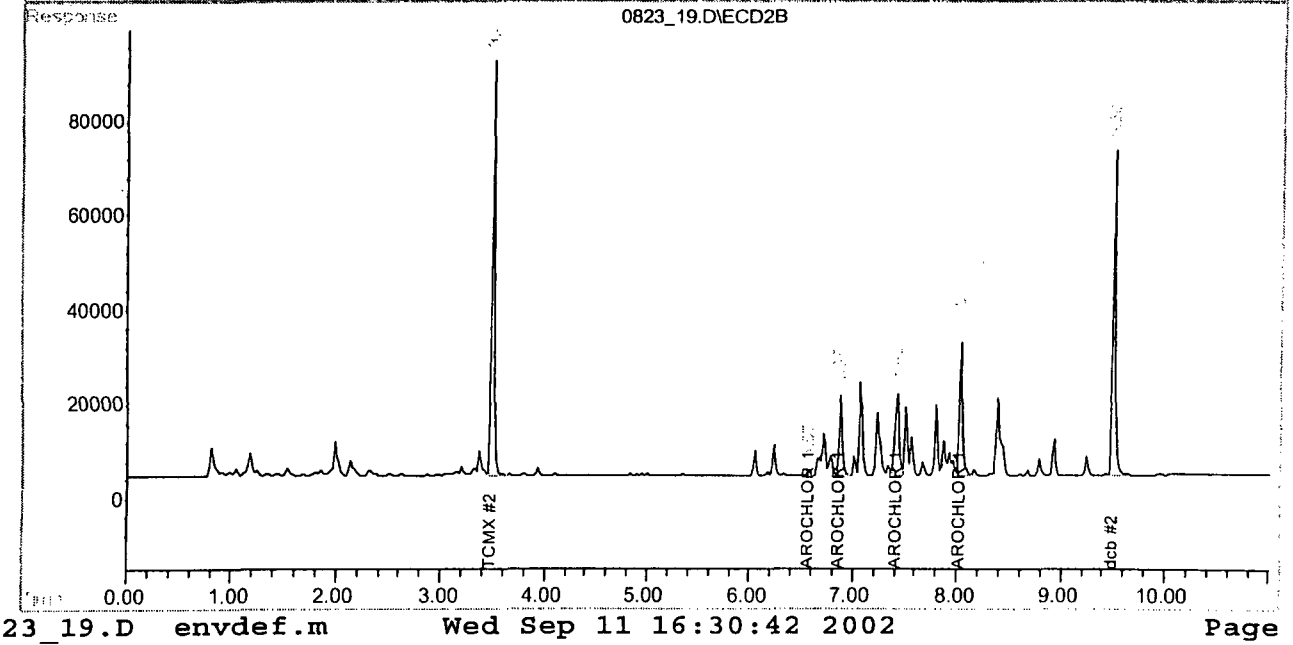
Quantitation Report (QT Reviewed)

Signal #1 : D:\DATA\SVGC#5\082302\0823_19.D\ECD1A.CH Vial: 18
Signal #2 : D:\DATA\SVGC#5\082302\0823_19.D\ECD2B.CH
Acq On : 23 Aug 2002 5:47 pm Operator: 308
Sample : LCS 1x WG81517 1000-10 Inst : SVGC5
Misc : spk ESC7740 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Aug 24 14:59 2002 Quant Results File: PCB7.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB7.M (Chemstation Integrator)
Title :
Last Update : Fri Aug 23 17:36:41 2002
Response via : Multiple Level Calibration
DataAcq Meth : PCB7.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





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Quantitation Report (QT Reviewed)

Signal #1 : D:\DATA\SVGC#5\082302\0823_20.D\ECD1A.CH Vial: 19
Signal #2 : D:\DATA\SVGC#5\082302\0823_20.D\ECD2B.CH
Acq On : 23 Aug 2002 6:01 pm Operator: 308
Sample : LCSD 1x WG81517 1000-10 Inst : SVGC5
Misc : kk 8/23/02 spk ESC7740 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Aug 24 15:00 2002 Quant Results File: PCB7.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB7.M (Chemstation Integrator)
Title :
Last Update : Fri Aug 23 17:36:41 2002
Response via : Initial Calibration
DataAcq Meth : PCB7.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) s TCMX	3.60	1742427	0.104 µg/mL
Spiked Amount 0.200 Range 41 - 145		Recovery =	52.00%
10) s DCB	9.24	1283558	0.123 µg/mL
Spiked Amount 0.200 Range 39 - 137		Recovery =	61.50%
12) s TCMX #2	3.49	1578491	0.107 µg/mL
Spiked Amount 0.200 Range 41 - 145		Recovery =	53.50%
21) s dcb #2	9.50	1197176	0.115 µg/mL
Spiked Amount 0.200 Range 39 - 137		Recovery =	57.50%
Target Compounds			
2) m,t AROCHLOR 1016(1)	4.06	84930	0.206 µg/mL
3) m,t AROCHLOR 1016(2)	4.36f	44661	0.056 µg/mL
4) m,t AROCHLOR 1016(3)	5.02f	6465	0.010 µg/mL
5) m,t AROCHLOR 1016(4)	5.24f	15985	0.039 µg/mL
6) m,t AROCHLOR 1260(1)	6.43	94461	0.379 µg/mL
7) m,t AROCHLOR 1260(2)	6.73	346992	0.403 µg/mL
8) m,t AROCHLOR 1260(3)	7.28	479984	0.392 µg/mL
9) m,t AROCHLOR 1260(4)	7.92	592868	0.459 µg/mL
13) m,t AROCHLOR 1016(1) #2	0.00	0	N.D. µg/mL
14) m,t AROCHLOR 1016(2) #2	4.60f	12641	0.016 µg/mL
15) m,t AROCHLOR 1016(3) #2	0.00	0	N.D. µg/mL
16) m,t AROCHLOR 1016(4) #2	5.12	14690	0.025 µg/mL
17) m,t AROCHLOR 1260(1) #2	6.57	22431	0.291 µg/mL
18) m,t AROCHLOR 1260(2) #2	6.87	341382	0.378 µg/mL
19) m,t AROCHLOR 1260(3) #2	7.42	485916	0.368 µg/mL
20) m,t AROCHLOR 1260(4) #2	8.03	573076	0.438 µg/mL

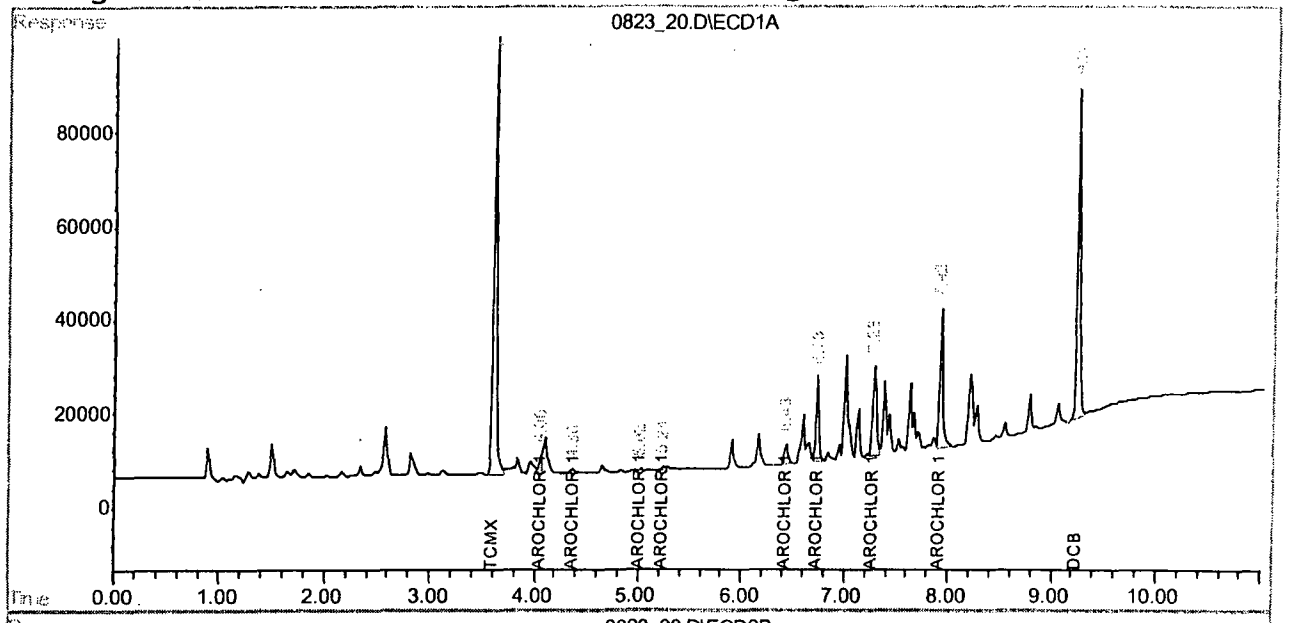
(f)=RT Delta > 1/2 Window (m)=manual int.
0823_20.D envdef.m Wed Sep 11 16:30:54 2002 Page 1

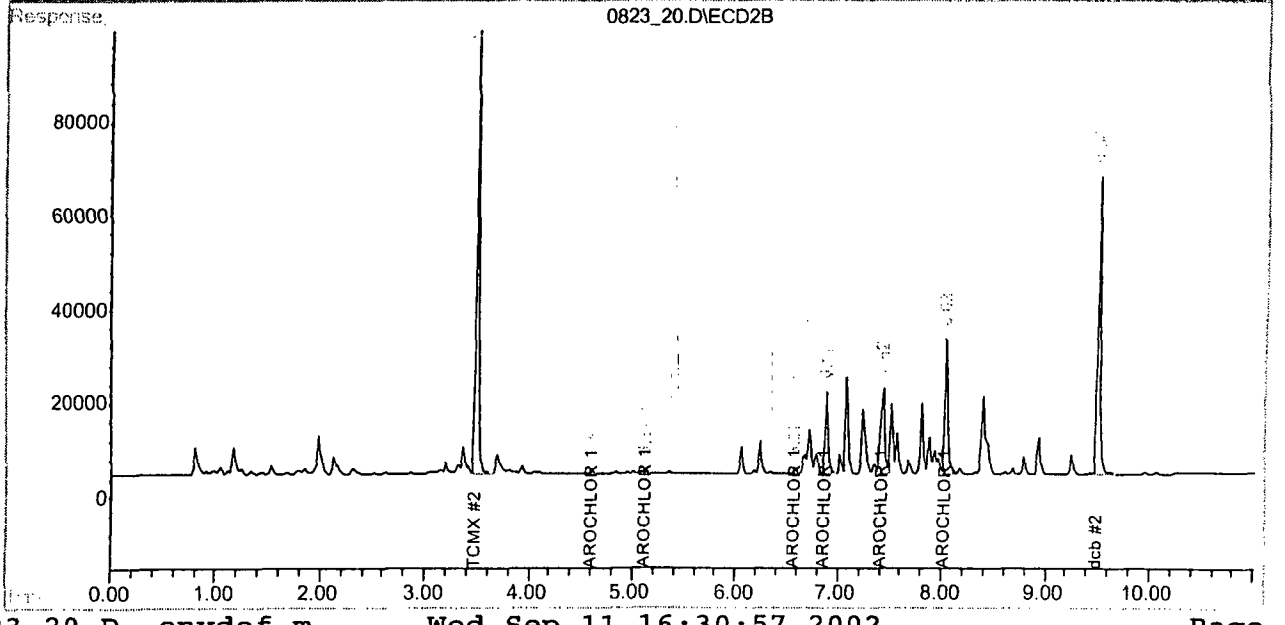
Quantitation Report (QT Reviewed)

Signal #1 : D:\DATA\SVGC#5\082302\0823_20.D\ECD1A.CH Vial: 19
Signal #2 : D:\DATA\SVGC#5\082302\0823_20.D\ECD2B.CH
Acq On : 23 Aug 2002 6:01 pm Operator: 308
Sample : LCSD 1x WG81517 1000-10 Inst : SVGC5
Misc : kk 8/23/02 spk ESC7740 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Aug 24 15:00 2002 Quant Results File: PCB7.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB7.M (Chemstation Integrator)
Title :
Last Update : Fri Aug 23 17:36:41 2002
Response via : Multiple Level Calibration
DataAcq Meth : PCB7.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





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Quantitation Report (QT Reviewed)

Signal #1 : D:\DATA\SVGC#5\082302\0823_21.D\ECD1A.CH Vial: 20
Signal #2 : D:\DATA\SVGC#5\082302\0823_21.D\ECD2B.CH
Acq On : 23 Aug 2002 6:16 pm Operator: 308
Sample : L87214-01 1x WG81517 1000-10 Inst : SVGC5
Misc : Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Aug 24 15:00 2002 Quant Results File: PCB7.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB7.M (Chemstation Integrator)
Title :
Last Update : Fri Aug 23 17:36:41 2002
Response via : Initial Calibration
DataAcq Meth : PCB7.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound			R.T.	Response	Conc Units
System Monitoring Compounds					
1) s TCMX			3.60	1993130	0.118 µg/mL
Spiked Amount	0.200	Range	41 - 145	Recovery =	59.00%
10) s DCB			9.24	939091	0.090 µg/mL
Spiked Amount	0.200	Range	39 - 137	Recovery =	45.00%
12) s TCMX #2			3.49	1827111	0.124 µg/mL
Spiked Amount	0.200	Range	41 - 145	Recovery =	62.00%
21) s dcb #2			9.50	890546	0.086 µg/mL
Spiked Amount	0.200	Range	39 - 137	Recovery =	43.00%
Target Compounds					
2) m,t AROCHLOR 1016(1)			4.00	82862	0.201 µg/mL
3) m,t AROCHLOR 1016(2)			4.36f	20457	0.026 µg/mL
4) m,t AROCHLOR 1016(3)			5.09	17377	0.027 µg/mL
5) m,t AROCHLOR 1016(4)			5.09f	17377	0.043 µg/mL
6) m,t AROCHLOR 1260(1)			0.00	0	N.D. µg/mL
7) m,t AROCHLOR 1260(2)			6.73	1313	0.002 µg/mL
8) m,t AROCHLOR 1260(3)			7.29	2943	0.002 µg/mL
9) m,t AROCHLOR 1260(4)			0.00	0	N.D. µg/mL
13) m,t AROCHLOR 1016(1) #2			0.00	0	N.D. µg/mL
14) m,t AROCHLOR 1016(2) #2			4.60f	16177	0.020 µg/mL
15) m,t AROCHLOR 1016(3) #2			0.00	0	N.D. µg/mL
16) m,t AROCHLOR 1016(4) #2			5.11	26116	0.045 µg/mL
17) m,t AROCHLOR 1260(1) #2			0.00	0	N.D. µg/mL
18) m,t AROCHLOR 1260(2) #2			0.00	0	N.D. µg/mL
19) m,t AROCHLOR 1260(3) #2			0.00	0	N.D. µg/mL
20) m,t AROCHLOR 1260(4) #2			8.04	21811	0.017 µg/mLm

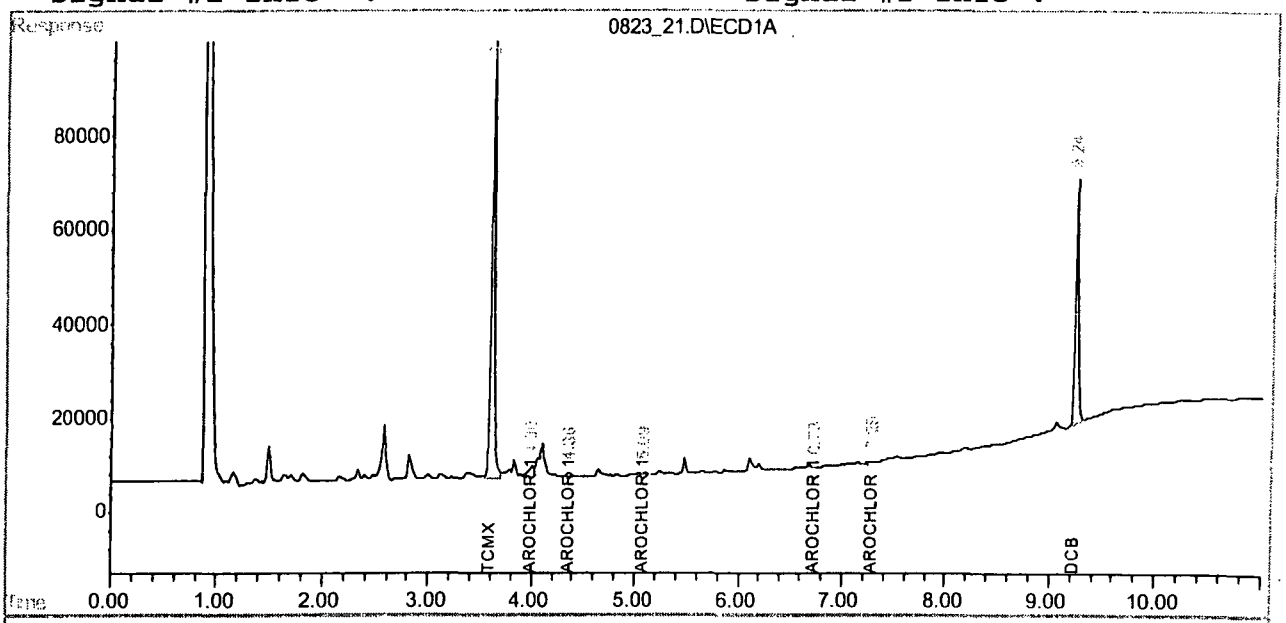
(f)=RT Delta > 1/2 Window (m)=manual int.
0823_21.D envdef.m Wed Sep 11 16:31:06 2002 Page 1

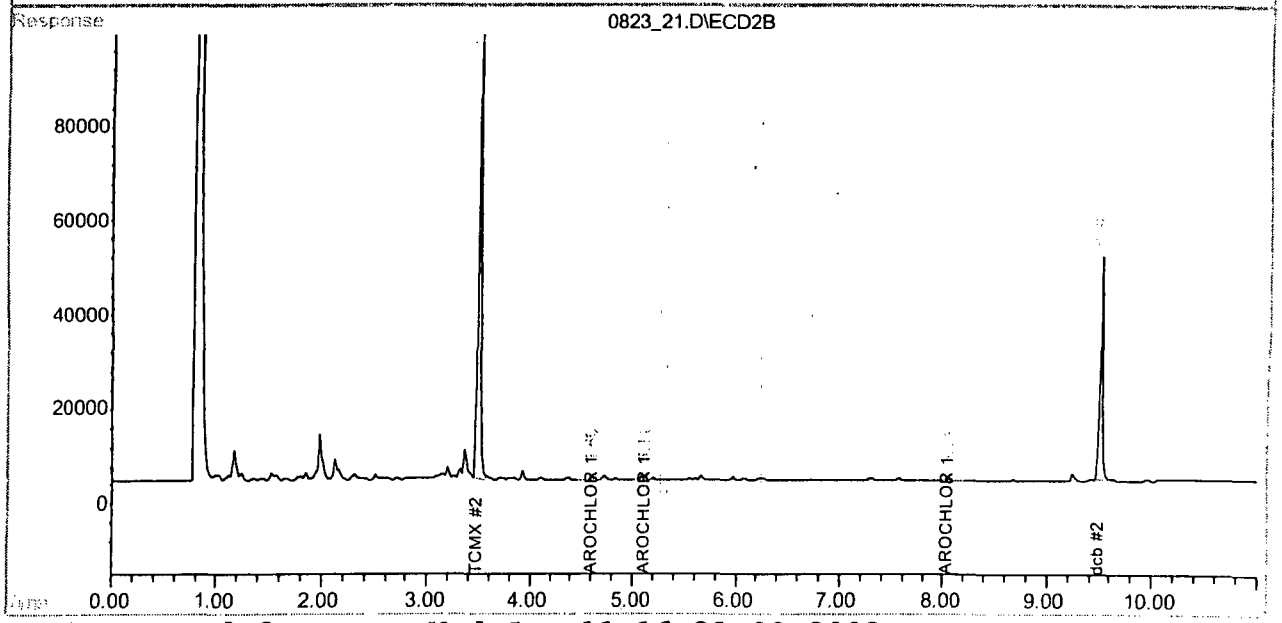
Quantitation Report (QT Reviewed)

Signal #1 : D:\DATA\SVGC#5\082302\0823_21.D\ECD1A.CH Vial: 20
Signal #2 : D:\DATA\SVGC#5\082302\0823_21.D\ECD2B.CH
Acq On : 23 Aug 2002 6:16 pm Operator: 308
Sample : L87214-01 1x WG81517 1000-10 Inst : SVGC5
Misc : Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Aug 24 15:00 2002 Quant Results File: PCB7.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB7.M (Chemstation Integrator)
Title :
Last Update : Fri Aug 23 17:36:41 2002
Response via : Multiple Level Calibration
DataAcq Meth : PCB7.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





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Quantitation Report (QT Reviewed)

Signal #1 : D:\DATA\SVGC#5\082302\0823_24.D\ECD1A.CH Vial: 10
Signal #2 : D:\DATA\SVGC#5\082302\0823_24.D\ECD2B.CH
Acq On : 23 Aug 2002 7:00 pm Operator: 308
Sample : 1016/1260 .50ppm Inst : SVGC5
Misc : bx030104k30 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Aug 24 14:38 2002 Quant Results File: PCB7.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB7.M (Chemstation Integrator)
Title :
Last Update : Fri Aug 23 17:36:41 2002
Response via : Initial Calibration
DataAcq Meth : PCB7.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) s TCMX	3.60	1728915	0.103 µg/mL
Spiked Amount 0.200 Range 41 - 145		Recovery =	51.50%
10) s DCB	9.24	1126025	0.108 µg/mL
Spiked Amount 0.200 Range 39 - 137		Recovery =	54.00%
12) s TCMX #2	3.49	1523496	0.103 µg/mL
Spiked Amount 0.200 Range 41 - 145		Recovery =	51.50%
21) s dcb #2	9.50	1029900	0.099 µg/mL
Spiked Amount 0.200 Range 39 - 137		Recovery =	49.50%
Target Compounds			
2) m,t AROCHLOR 1016(1)	4.04	235824	0.571 µg/mL
3) m,t AROCHLOR 1016(2)	4.43	420373	0.528 µg/mL
4) m,t AROCHLOR 1016(3)	5.09	344576	0.540 µg/mL
5) m,t AROCHLOR 1016(4)	5.16	226690	0.557 µg/mL
6) m,t AROCHLOR 1260(1)	6.43	143128	0.574 µg/mL
7) m,t AROCHLOR 1260(2)	6.73	456196	0.530 µg/mL
8) m,t AROCHLOR 1260(3)	7.28	668091	0.545 µg/mL
9) m,t AROCHLOR 1260(4)	7.92	705996	0.546 µg/mL
13) m,t AROCHLOR 1016(1) #2	4.07	181162	0.514 µg/mL
14) m,t AROCHLOR 1016(2) #2	4.52	405544	0.513 µg/mL
15) m,t AROCHLOR 1016(3) #2	5.00	687582	0.517 µg/mL
16) m,t AROCHLOR 1016(4) #2	5.14	305500	0.524 µg/mL
17) m,t AROCHLOR 1260(1) #2	6.57	41679	0.540 µg/mL
18) m,t AROCHLOR 1260(2) #2	6.87	459144	0.508 µg/mL
19) m,t AROCHLOR 1260(3) #2	7.42	673519	0.510 µg/mL
20) m,t AROCHLOR 1260(4) #2	8.03	674188	0.516 µg/mL

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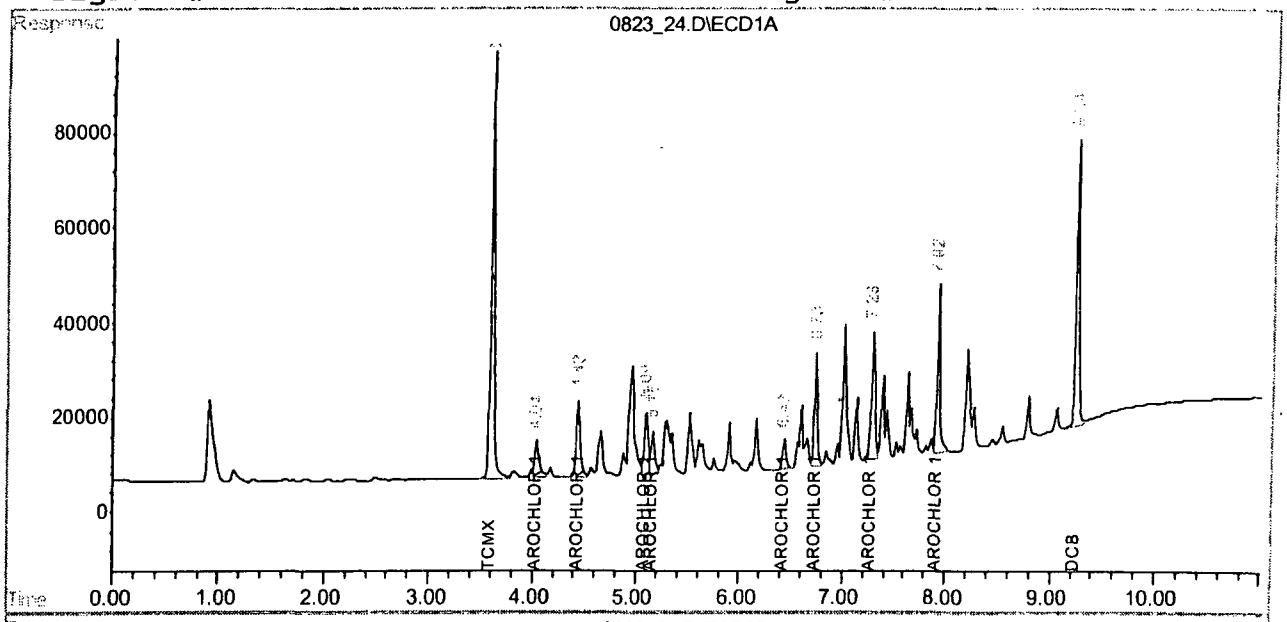
(f)=RT Delta > 1/2 Window (m)=manual int.

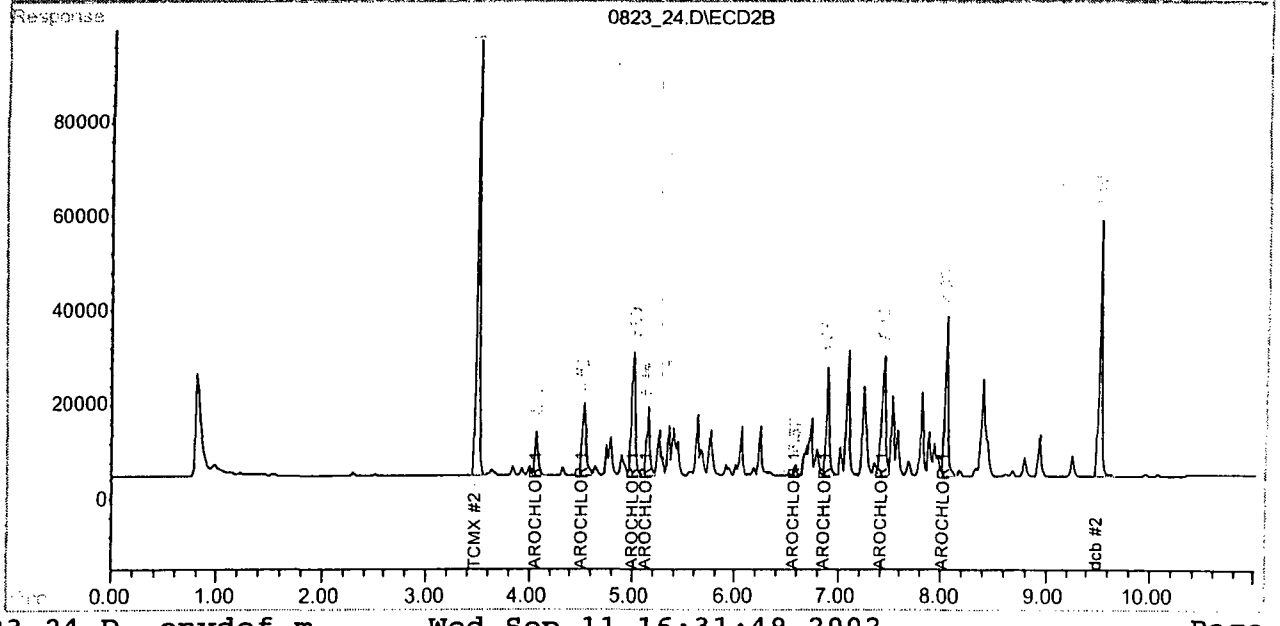
Quantitation Report (QT Reviewed)

Signal #1 : D:\DATA\SVGC#5\082302\0823_24.D\ECD1A.CH Vial: 10
Signal #2 : D:\DATA\SVGC#5\082302\0823_24.D\ECD2B.CH
Acq On : 23 Aug 2002 7:00 pm Operator: 308
Sample : 1016/1260 .50ppm Inst : SVGC5
Misc : bx030104k30 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Aug 24 14:38 2002 Quant Results File: PCB7.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB7.M (Chemstation Integrator)
Title :
Last Update : Fri Aug 23 17:36:41 2002
Response via : Multiple Level Calibration
DataAcq Meth : PCB7.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





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Quantitation Report (QT Reviewed)

Signal #1 : D:\DATA\SVGC#5\082302\0823_25.D\ECD1A.CH Vial: 23
Signal #2 : D:\DATA\SVGC#5\082302\0823_25.D\ECD2B.CH
Acq On : 23 Aug 2002 7:15 pm Operator: 308
Sample : Blank 1x WG81519 30-10 Inst : SVGC5
Misc : surr ESC8082 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Aug 24 15:02 2002 Quant Results File: PCB7.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB7.M (Chemstation Integrator)
Title :
Last Update : Fri Aug 23 17:36:41 2002
Response via : Initial Calibration
DataAcq Meth : PCB7.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) s TCMX	3.60	2076818	0.123 µg/mL
Spiked Amount 0.200 Range 41 - 145		Recovery =	61.50%
10) s DCB	9.24	1608105	0.154 µg/mL
Spiked Amount 0.200 Range 39 - 137		Recovery =	77.00%
12) s TCMX #2	3.49	1882019	0.127 µg/mL
Spiked Amount 0.200 Range 41 - 145		Recovery =	63.50%
21) s dcb #2	9.50	1335472	0.128 µg/mL
Spiked Amount 0.200 Range 39 - 137		Recovery =	64.00%
Target Compounds			
2) m,t AROCHLOR 1016(1)	3.99	83303	0.202 µg/mL
3) m,t AROCHLOR 1016(2)	4.36f	81924	0.103 µg/mL
4) m,t AROCHLOR 1016(3)	0.00	0	N.D. µg/mL
5) m,t AROCHLOR 1016(4)	0.00	0	N.D. µg/mL
6) m,t AROCHLOR 1260(1)	0.00	0	N.D. µg/mL
7) m,t AROCHLOR 1260(2)	0.00	0	N.D. µg/mL
8) m,t AROCHLOR 1260(3)	0.00	0	N.D. µg/mL
9) m,t AROCHLOR 1260(4)	0.00	0	N.D. µg/mL
13) m,t AROCHLOR 1016(1) #2	0.00	0	N.D. µg/mL
14) m,t AROCHLOR 1016(2) #2	0.00	0	N.D. µg/mL
15) m,t AROCHLOR 1016(3) #2	0.00	0	N.D. µg/mL
16) m,t AROCHLOR 1016(4) #2	5.22f	9321	0.016 µg/mL
17) m,t AROCHLOR 1260(1) #2	0.00	0	N.D. µg/mL
18) m,t AROCHLOR 1260(2) #2	0.00	0	N.D. µg/mL
19) m,t AROCHLOR 1260(3) #2	0.00	0	N.D. µg/mL
20) m,t AROCHLOR 1260(4) #2	0.00	0	N.D. µg/mL

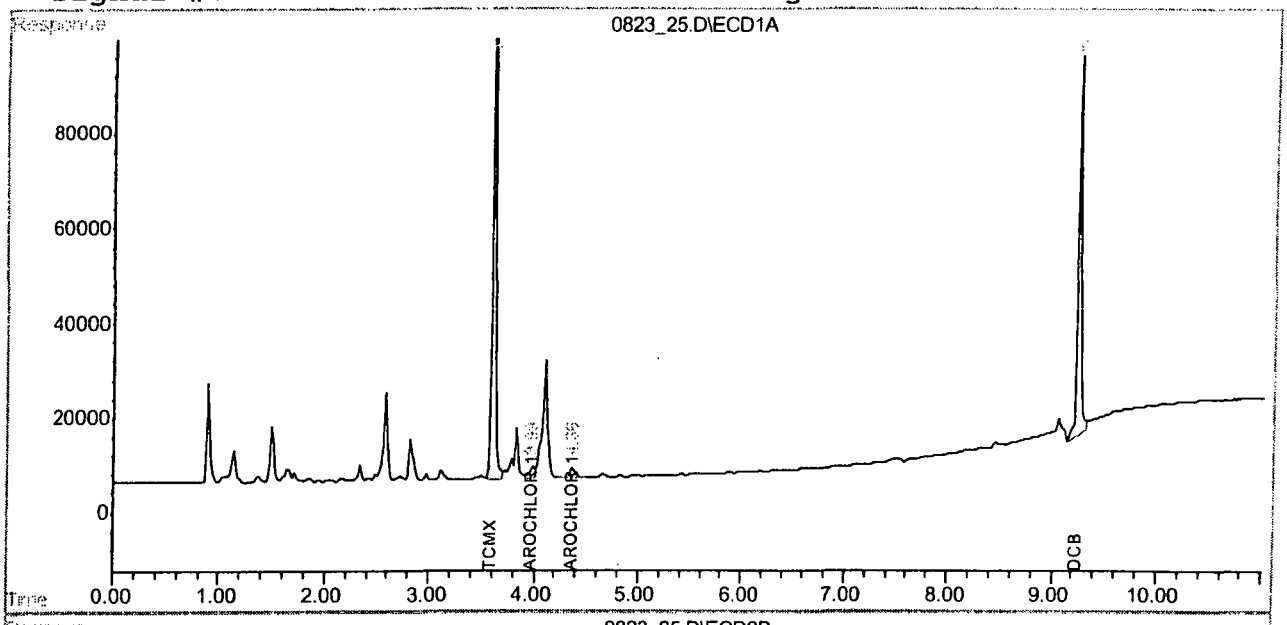
(f)=RT Delta > 1/2 Window (m)=manual int.
0823_25.D envdef.m Wed Sep 11 16:32:43 2002 Page 1

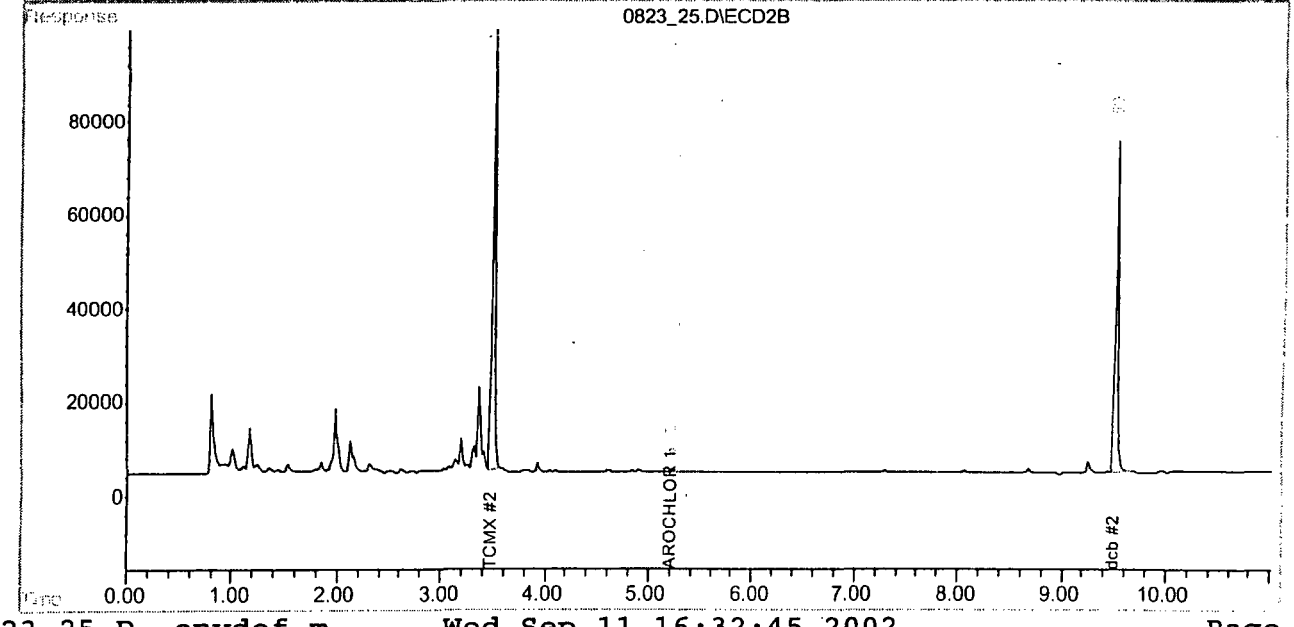
Quantitation Report (QT Reviewed)

Signal #1 : D:\DATA\SVGC#5\082302\0823_25.D\ECD1A.CH Vial: 23
Signal #2 : D:\DATA\SVGC#5\082302\0823_25.D\ECD2B.CH
Acq On : 23 Aug 2002 7:15 pm Operator: 308
Sample : Blank 1x WG81519 30-10 Inst : SVGC5
Misc : surr ESC8082 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Aug 24 15:02 2002 Quant Results File: PCB7.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB7.M (Chemstation Integrator)
Title :
Last Update : Fri Aug 23 17:36:41 2002
Response via : Multiple Level Calibration
DataAcq Meth : PCB7.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Signal #1 : D:\DATA\SVGC#5\082302\0823_26.D\ECD1A.CH Vial: 24
Signal #2 : D:\DATA\SVGC#5\082302\0823_26.D\ECD2B.CH
Acq On : 23 Aug 2002 7:29 pm Operator: 308
Sample : LCS 1x WG81519 30-10 Inst : SVGC5
Misc : spk ESC7719 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Aug 24 15:02 2002 Quant Results File: PCB7.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB7.M (Chemstation Integrator)
Title :
Last Update : Fri Aug 23 17:36:41 2002
Response via : Initial Calibration
DataAcq Meth : PCB7.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) s TCMX	3.60	2203411	0.131 µg/mL
Spiked Amount 0.200 Range 41 - 145		Recovery =	65.50%
10) s DCB	9.24	1753893	0.168 µg/mL
Spiked Amount 0.200 Range 39 - 137		Recovery =	84.00%
12) s TCMX #2	3.49	2002164	0.135 µg/mL
Spiked Amount 0.200 Range 41 - 145		Recovery =	67.50%
21) s dcb #2	9.50	1454142	0.140 µg/mL
Spiked Amount 0.200 Range 39 - 137		Recovery =	70.00%
Target Compounds			
2) m,t AROCHLOR 1016(1)	3.99	25438	0.062 µg/mL
3) m,t AROCHLOR 1016(2)	4.36f	12520	0.016 µg/mL
4) m,t AROCHLOR 1016(3)	0.00	0	N.D. µg/mL
5) m,t AROCHLOR 1016(4)	0.00	0	N.D. µg/mL
6) m,t AROCHLOR 1260(1)	6.43	97221	0.390 µg/mL
7) m,t AROCHLOR 1260(2)	6.73	350494	0.407 µg/mL
8) m,t AROCHLOR 1260(3)	7.28	497095	0.405 µg/mL
9) m,t AROCHLOR 1260(4)	7.92	673750	0.521 µg/mL
13) m,t AROCHLOR 1016(1) #2	0.00	0	N.D. µg/mL
14) m,t AROCHLOR 1016(2) #2	0.00	0	N.D. µg/mL
15) m,t AROCHLOR 1016(3) #2	0.00	0	N.D. µg/mL
16) m,t AROCHLOR 1016(4) #2	0.00	0	N.D. µg/mL
17) m,t AROCHLOR 1260(1) #2	6.57	23155	0.300 µg/mL
18) m,t AROCHLOR 1260(2) #2	6.88	341312	0.378 µg/mL
19) m,t AROCHLOR 1260(3) #2	7.42	480653	0.364 µg/mL
20) m,t AROCHLOR 1260(4) #2	8.03	580034	0.444 µg/mL

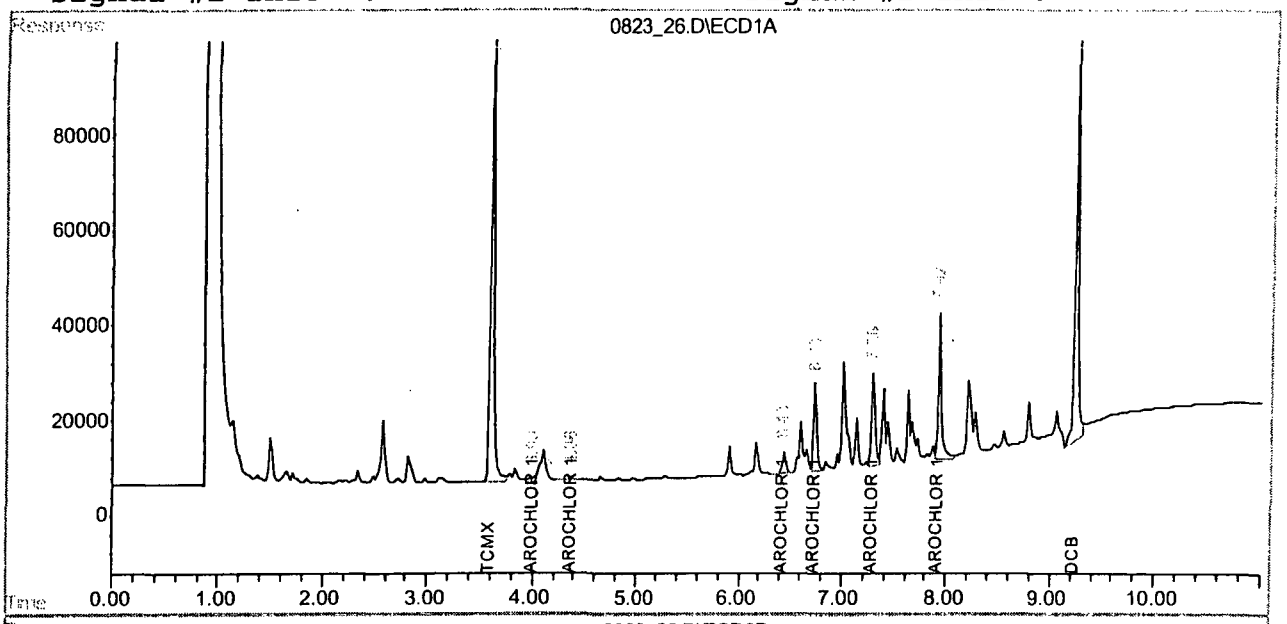
(f)=RT Delta > 1/2 Window (m)=manual int.
0823_26.D envdef.m Wed Sep 11 16:32:55 2002 Page 1

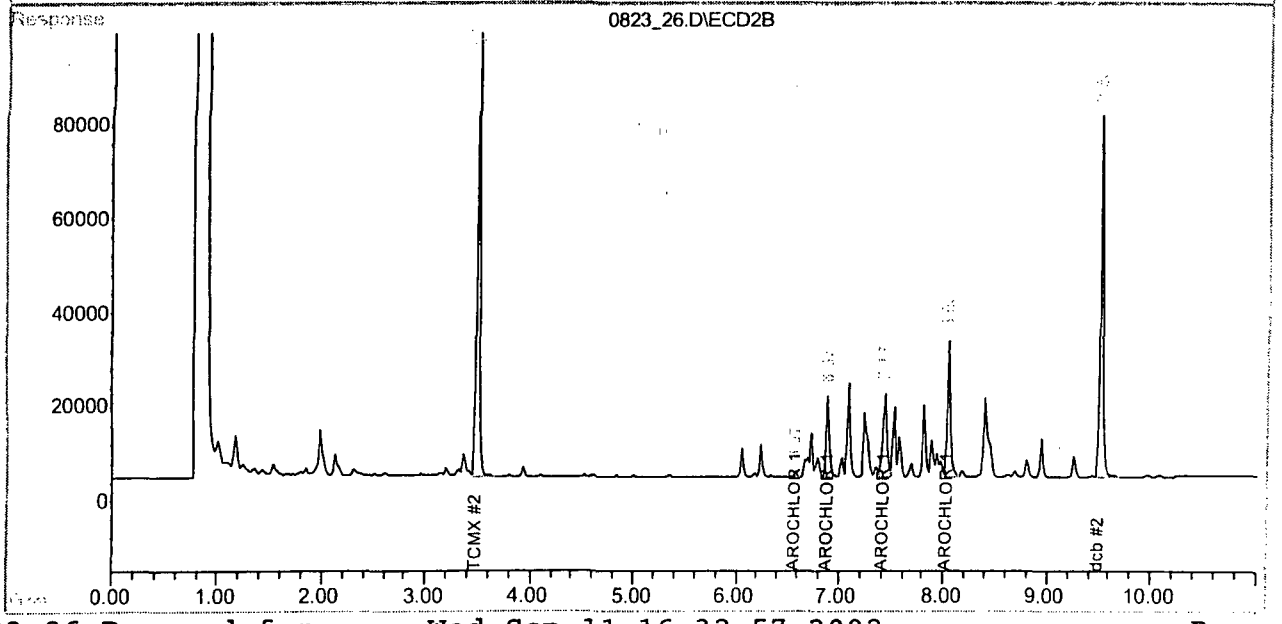
Quantitation Report (QT Reviewed)

Signal #1 : D:\DATA\SVGC#5\082302\0823_26.D\ECD1A.CH Vial: 24
Signal #2 : D:\DATA\SVGC#5\082302\0823_26.D\ECD2B.CH
Acq On : 23 Aug 2002 7:29 pm Operator: 308
Sample : LCS 1x WG81519 30-10 Inst : SVGC5
Misc : spk ESC7719 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Aug 24 15:02 2002 Quant Results File: PCB7.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB7.M (Chemstation Integrator)
Title :
Last Update : Fri Aug 23 17:36:41 2002
Response via : Multiple Level Calibration
DataAcq Meth : PCB7.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





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Quantitation Report (QT Reviewed)

Signal #1 : D:\DATA\SVGC#5\082302\0823_27.D\ECD1A.CH Vial: 25
Signal #2 : D:\DATA\SVGC#5\082302\0823_27.D\ECD2B.CH
Acq On : 23 Aug 2002 7:44 pm Operator: 308
Sample : LCSD 1x WG81519 30-10 Inst : SVGC5
Misc : MG 8/23/02 spk ESC7719 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Aug 24 15:03 2002 Quant Results File: PCB7.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB7.M (Chemstation Integrator)
Title :
Last Update : Fri Aug 23 17:36:41 2002
Response via : Initial Calibration
DataAcq Meth : PCB7.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) s TCMX	3.60	2179432	0.129 µg/mL
Spiked Amount 0.200	Range 41 - 145	Recovery =	64.50%
10) s DCB	9.24	1689728	0.162 µg/mL
Spiked Amount 0.200	Range 39 - 137	Recovery =	81.00%
12) s TCMX #2	3.49	1957425	0.132 µg/mL
Spiked Amount 0.200	Range 41 - 145	Recovery =	66.00%
21) s dcb #2	9.50	1402381	0.135 µg/mL
Spiked Amount 0.200	Range 39 - 137	Recovery =	67.50%
Target Compounds			
2) m,t AROCHLOR 1016(1)	3.99	23573	0.057 µg/mL
3) m,t AROCHLOR 1016(2)	4.36f	10567	0.013 µg/mL
4) m,t AROCHLOR 1016(3)	0.00	0	N.D. µg/mL
5) m,t AROCHLOR 1016(4)	0.00	0	N.D. µg/mL
6) m,t AROCHLOR 1260(1)	6.43	97308	0.390 µg/mL
7) m,t AROCHLOR 1260(2)	6.74	360032	0.418 µg/mL
8) m,t AROCHLOR 1260(3)	7.28	499097	0.407 µg/mL
9) m,t AROCHLOR 1260(4)	7.92	663882	0.514 µg/mL
13) m,t AROCHLOR 1016(1) #2	0.00	0	N.D. µg/mL
14) m,t AROCHLOR 1016(2) #2	0.00	0	N.D. µg/mL
15) m,t AROCHLOR 1016(3) #2	0.00	0	N.D. µg/mL
16) m,t AROCHLOR 1016(4) #2	0.00	0	N.D. µg/mL
17) m,t AROCHLOR 1260(1) #2	6.58	23088	0.299 µg/mL
18) m,t AROCHLOR 1260(2) #2	6.88	345571	0.382 µg/mL
19) m,t AROCHLOR 1260(3) #2	7.42	482696	0.365 µg/mL
20) m,t AROCHLOR 1260(4) #2	8.03	591771	0.453 µg/mL

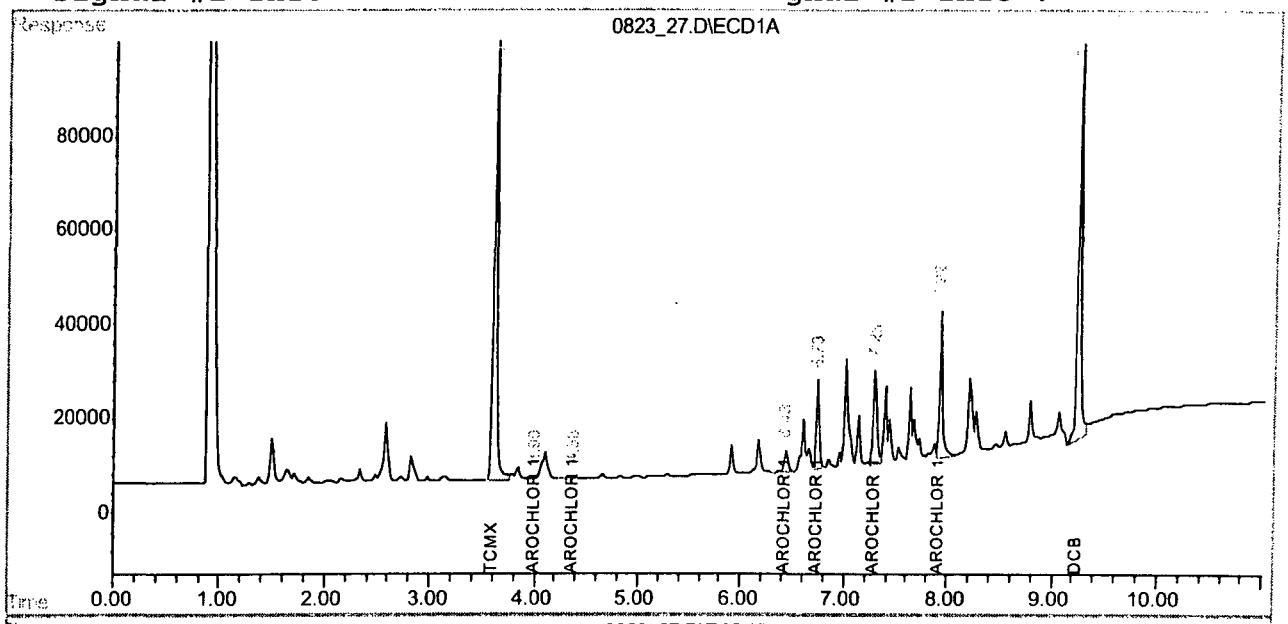
(f)=RT Delta > 1/2 Window (m)=manual int.
0823_27.D envdef.m Wed Sep 11 16:33:09 2002 Page 1

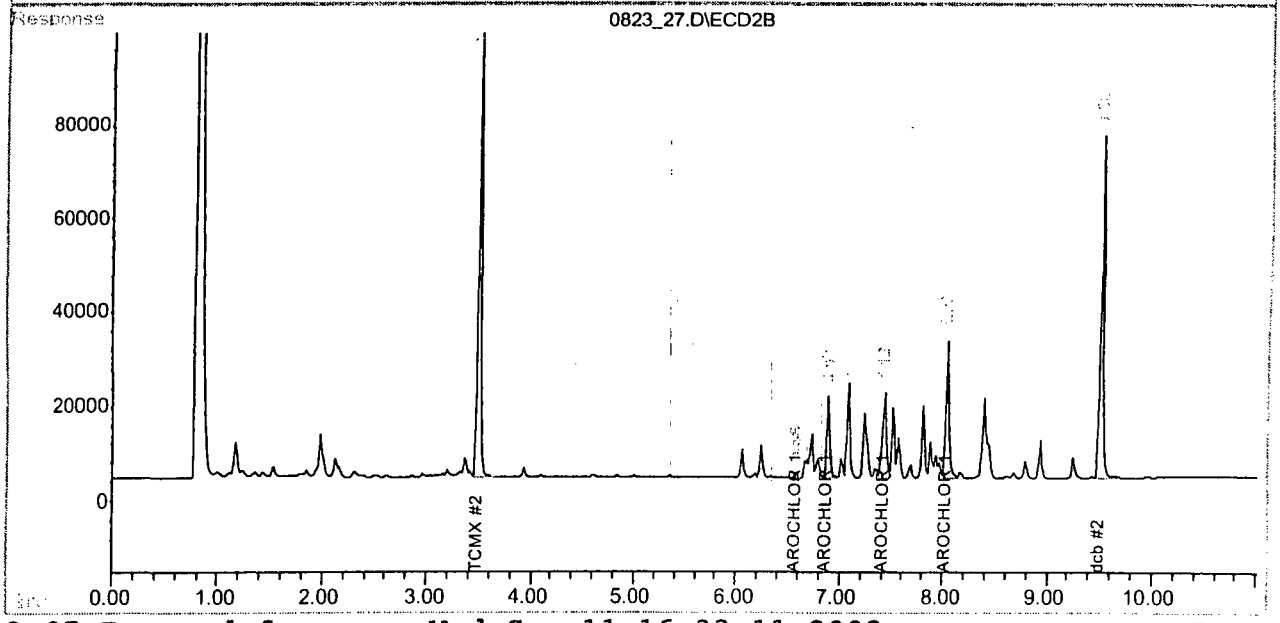
Quantitation Report (QT Reviewed)

Signal #1 : D:\DATA\SVGC#5\082302\0823_27.D\ECD1A.CH Vial: 25
Signal #2 : D:\DATA\SVGC#5\082302\0823_27.D\ECD2B.CH
Acq On : 23 Aug 2002 7:44 pm Operator: 308
Sample : LCSD 1x WG81519 30-10 Inst : SVGC5
Misc : MG 8/23/02 spk ESC7719 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Aug 24 15:03 2002 Quant Results File: PCB7.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB7.M (Chemstation Integrator)
Title :
Last Update : Fri Aug 23 17:36:41 2002
Response via : Multiple Level Calibration
DataAcq Meth : PCB7.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





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Quantitation Report (QT Reviewed)

Signal #1 : D:\DATA\SVGC#5\082302\0823_28.D\ECD1A.CH Vial: 26
Signal #2 : D:\DATA\SVGC#5\082302\0823_28.D\ECD2B.CH
Acq On : 23 Aug 2002 7:58 pm Operator: 308
Sample : L87214-02 1x WG81519 30-10 Inst : SVGC5
Misc : Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Aug 24 15:03 2002 Quant Results File: PCB7.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB7.M (Chemstation Integrator)
Title :
Last Update : Fri Aug 23 17:36:41 2002
Response via : Initial Calibration
DataAcq Meth : PCB7.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) s TCMX	3.60	1916860	0.114 µg/mL
Spiked Amount 0.200 Range 41 - 145		Recovery =	57.00%
10) s DCB	9.24	1411382	0.135 µg/mL
Spiked Amount 0.200 Range 39 - 137		Recovery =	67.50%
12) s TCMX #2	3.49	1679507	0.114 µg/mL
Spiked Amount 0.200 Range 41 - 145		Recovery =	57.00%
21) s dcb #2	9.50	1261087	0.121 µg/mL
Spiked Amount 0.200 Range 39 - 137		Recovery =	60.50%
Target Compounds			
2) m,t AROCHLOR 1016(1)	3.99	86492	0.210 µg/mL
3) m,t AROCHLOR 1016(2)	4.37f	69993	0.088 µg/mL
4) m,t AROCHLOR 1016(3)	0.00	0	N.D. µg/mL
5) m,t AROCHLOR 1016(4)	0.00	0	N.D. µg/mL
6) m,t AROCHLOR 1260(1)	0.00	0	N.D. µg/mL
7) m,t AROCHLOR 1260(2)	0.00	0	N.D. µg/mL
8) m,t AROCHLOR 1260(3)	0.00	0	N.D. µg/mL
9) m,t AROCHLOR 1260(4)	0.00	0	N.D. µg/mL
13) m,t AROCHLOR 1016(1) #2	0.00	0	N.D. µg/mL
14) m,t AROCHLOR 1016(2) #2	0.00	0	N.D. µg/mL
15) m,t AROCHLOR 1016(3) #2	0.00	0	N.D. µg/mL
16) m,t AROCHLOR 1016(4) #2	0.00	0	N.D. µg/mL
17) m,t AROCHLOR 1260(1) #2	0.00	0	N.D. µg/mL
18) m,t AROCHLOR 1260(2) #2	0.00	0	N.D. µg/mL
19) m,t AROCHLOR 1260(3) #2	0.00	0	N.D. µg/mL
20) m,t AROCHLOR 1260(4) #2	0.00	0	N.D. µg/mL

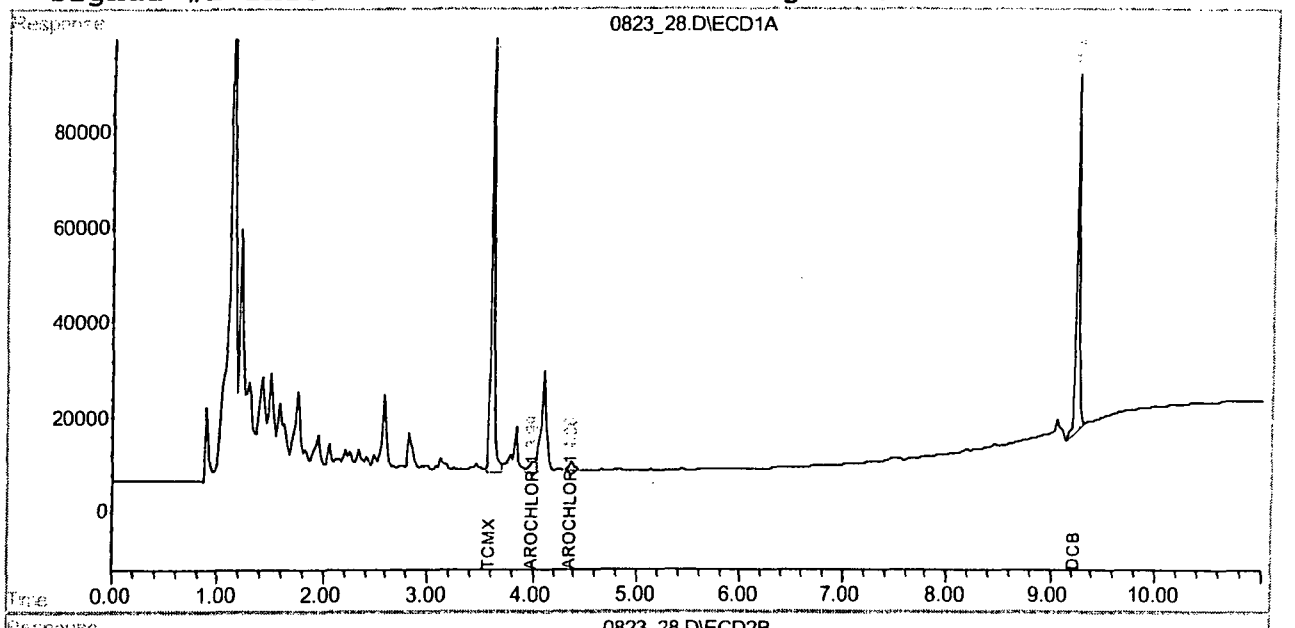
(f)=RT Delta > 1/2 Window (m)=manual int.
0823_28.D envdef.m Wed Sep 11 16:33:22 2002 Page 1

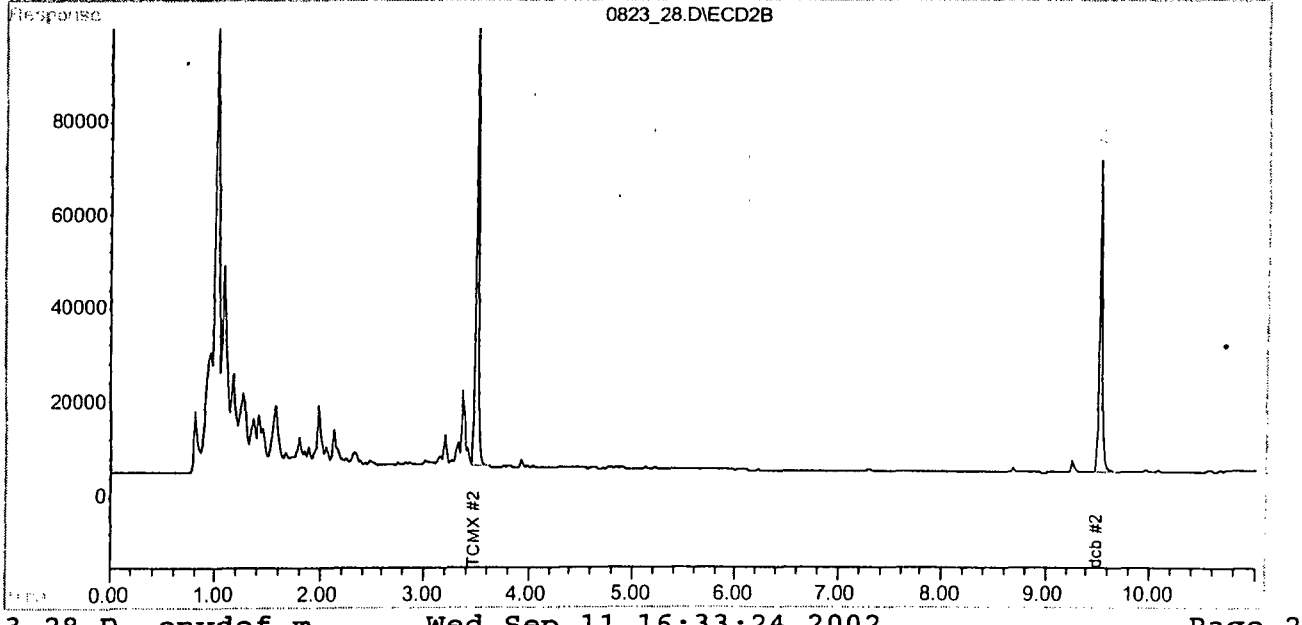
Quantitation Report (QT Reviewed)

Signal #1 : D:\DATA\SVGC#5\082302\0823_28.D\ECD1A.CH Vial: 26
Signal #2 : D:\DATA\SVGC#5\082302\0823_28.D\ECD2B.CH
Acq On : 23 Aug 2002 7:58 pm Operator: 308
Sample : L87214-02 1x WG81519 30-10 Inst : SVGC5
Misc : Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Aug 24 15:03 2002 Quant Results File: PCB7.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB7.M (Chemstation Integrator)
Title :
Last Update : Fri Aug 23 17:36:41 2002
Response via : Multiple Level Calibration
DataAcq Meth : PCB7.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Signal #1 : D:\DATA\SVGC#5\082302\0823_29.D\ECD1A.CH Vial: 27
Signal #2 : D:\DATA\SVGC#5\082302\0823_29.D\ECD2B.CH
Acq On : 23 Aug 2002 8:13 pm Operator: 308
Sample : L87214-04 10x WG815I9 30-10 Inst : SVGC5
Misc : Multiplr: 10.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Aug 24 15:03 2002 Quant Results File: PCB7.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB7.M (Chemstation Integrator)
Title :
Last Update : Fri Aug 23 17:36:41 2002
Response via : Initial Calibration
DataAcq Meth : PCB7.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) s TCMX	3.61	268368	0.159 µg/mL
Spiked Amount 0.200	Range 41 - 145	Recovery =	79.50%
10) s DCB	9.25	175370	0.168 µg/mLm
Spiked Amount 0.200	Range 39 - 137	Recovery =	84.00%
12) s TCMX #2	3.49	215209	0.146 µg/mL
Spiked Amount 0.200	Range 41 - 145	Recovery =	73.00%
21) s dcb #2	9.51	173428	0.167 µg/mL
Spiked Amount 0.200	Range 39 - 137	Recovery =	83.50%
Target Compounds			
2) m,t AROCHLOR 1016(1)	4.10f	90443	2.191 µg/mL
3) m,t AROCHLOR 1016(2)	0.00	0	N.D. µg/mL
4) m,t AROCHLOR 1016(3)	0.00	0	N.D. µg/mL
5) m,t AROCHLOR 1016(4)	0.00	0	N.D. µg/mL
6) m,t AROCHLOR 1260(1)	0.00	0	N.D. µg/mL
7) m,t AROCHLOR 1260(2)	0.00	0	N.D. µg/mL
8) m,t AROCHLOR 1260(3)	0.00	0	N.D. µg/mL
9) m,t AROCHLOR 1260(4)	0.00	0	N.D. µg/mL
13) m,t AROCHLOR 1016(1) #2	0.00	0	N.D. µg/mL
14) m,t AROCHLOR 1016(2) #2	0.00	0	N.D. µg/mL
15) m,t AROCHLOR 1016(3) #2	0.00	0	N.D. µg/mL
16) m,t AROCHLOR 1016(4) #2	0.00	0	N.D. µg/mL
17) m,t AROCHLOR 1260(1) #2	0.00	0	N.D. µg/mL
18) m,t AROCHLOR 1260(2) #2	0.00	0	N.D. µg/mL
19) m,t AROCHLOR 1260(3) #2	0.00	0	N.D. µg/mL
20) m,t AROCHLOR 1260(4) #2	0.00	0	N.D. µg/mL

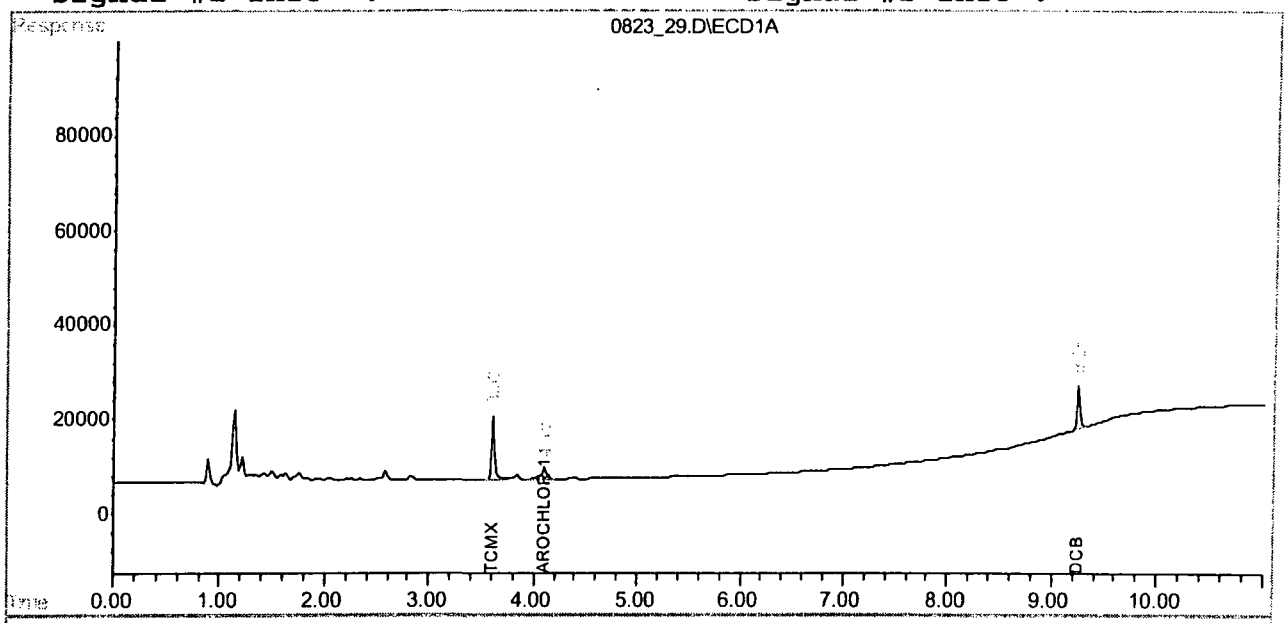
(f)=RT Delta > 1/2 Window (m)=manual int.

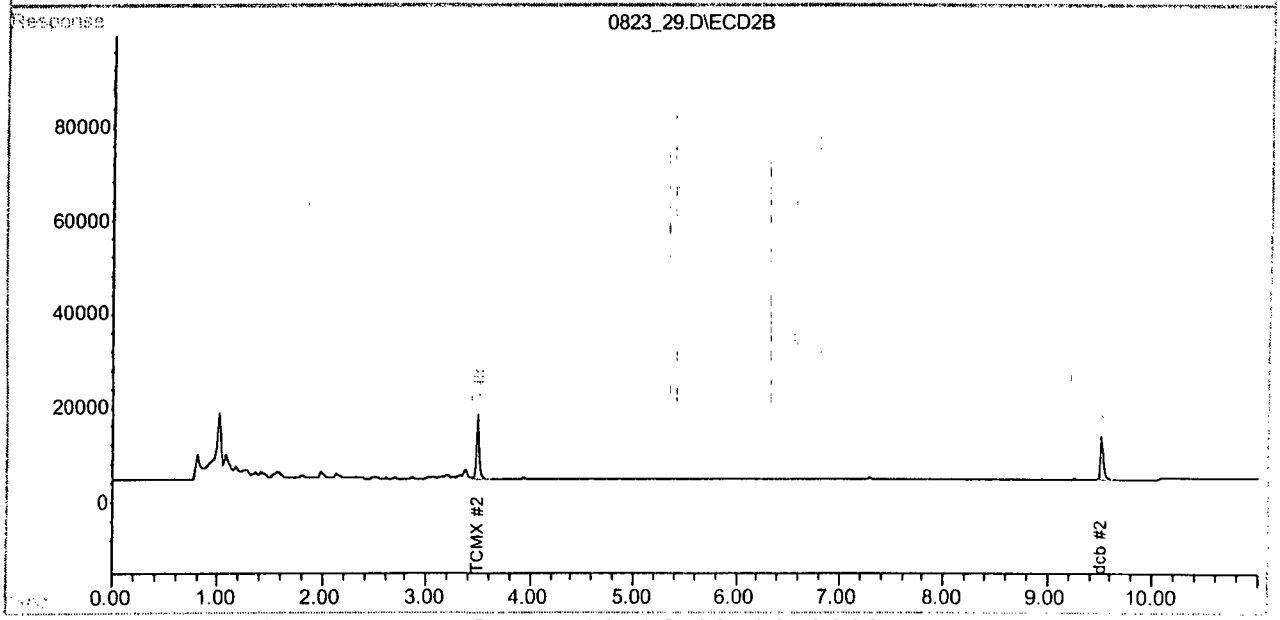
Quantitation Report (QT Reviewed)

Signal #1 : D:\DATA\SVGC#5\082302\0823_29.D\ECD1A.CH Vial: 27
Signal #2 : D:\DATA\SVGC#5\082302\0823_29.D\ECD2B.CH
Acq On : 23 Aug 2002 8:13 pm Operator: 308
Sample : L87214-04 10x WG81519 30-10 Inst : SVGC5
Misc : Multiplr: 10.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Aug 24 15:03 2002 Quant Results File: PCB7.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB7.M (Chemstation Integrator)
Title :
Last Update : Fri Aug 23 17:36:41 2002
Response via : Multiple Level Calibration
DataAcq Meth : PCB7.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Signal #1 : D:\DATA\SVGC#5\082302\0823_30.D\ECD1A.CH Vial: 28
Signal #2 : D:\DATA\SVGC#5\082302\0823_30.D\ECD2B.CH
Acq On : 23 Aug 2002 8:27 pm Operator: 308
Sample : L87214-06 10x WG81519 30-10 Inst : SVGC5
Misc : Multiplr: 10.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Aug 24 15:04 2002 Quant Results File: PCB7.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB7.M (Chemstation Integrator)
Title :
Last Update : Fri Aug 23 17:36:41 2002
Response via : Initial Calibration
DataAcq Meth : PCB7.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) s TCMX	3.61	156158	0.093 µg/mL
Spiked Amount 0.200 Range 41 - 145		Recovery =	46.50%
10) s DCB	9.25	165009	0.158 µg/mLm
Spiked Amount 0.200 Range 39 - 137		Recovery =	79.00%
12) s TCMX #2	3.49	126213	0.085 µg/mL
Spiked Amount 0.200 Range 41 - 145		Recovery =	42.50%
21) s dcb #2	9.51	168930	0.162 µg/mL
Spiked Amount 0.200 Range 39 - 137		Recovery =	81.00%
Target Compounds			
2) m,t AROCHLOR 1016(1)	4.10f	77042	1.867 µg/mL
3) m,t AROCHLOR 1016(2)	0.00	0	N.D. µg/mL
4) m,t AROCHLOR 1016(3)	0.00	0	N.D. µg/mL
5) m,t AROCHLOR 1016(4)	0.00	0	N.D. µg/mL
6) m,t AROCHLOR 1260(1)	0.00	0	N.D. µg/mL
7) m,t AROCHLOR 1260(2)	0.00	0	N.D. µg/mL
8) m,t AROCHLOR 1260(3)	0.00	0	N.D. µg/mL
9) m,t AROCHLOR 1260(4)	0.00	0	N.D. µg/mL
13) m,t AROCHLOR 1016(1) #2	0.00	0	N.D. µg/mL
14) m,t AROCHLOR 1016(2) #2	0.00	0	N.D. µg/mL
15) m,t AROCHLOR 1016(3) #2	0.00	0	N.D. µg/mL
16) m,t AROCHLOR 1016(4) #2	0.00	0	N.D. µg/mL
17) m,t AROCHLOR 1260(1) #2	0.00	0	N.D. µg/mL
18) m,t AROCHLOR 1260(2) #2	0.00	0	N.D. µg/mL
19) m,t AROCHLOR 1260(3) #2	0.00	0	N.D. µg/mL
20) m,t AROCHLOR 1260(4) #2	0.00	0	N.D. µg/mL

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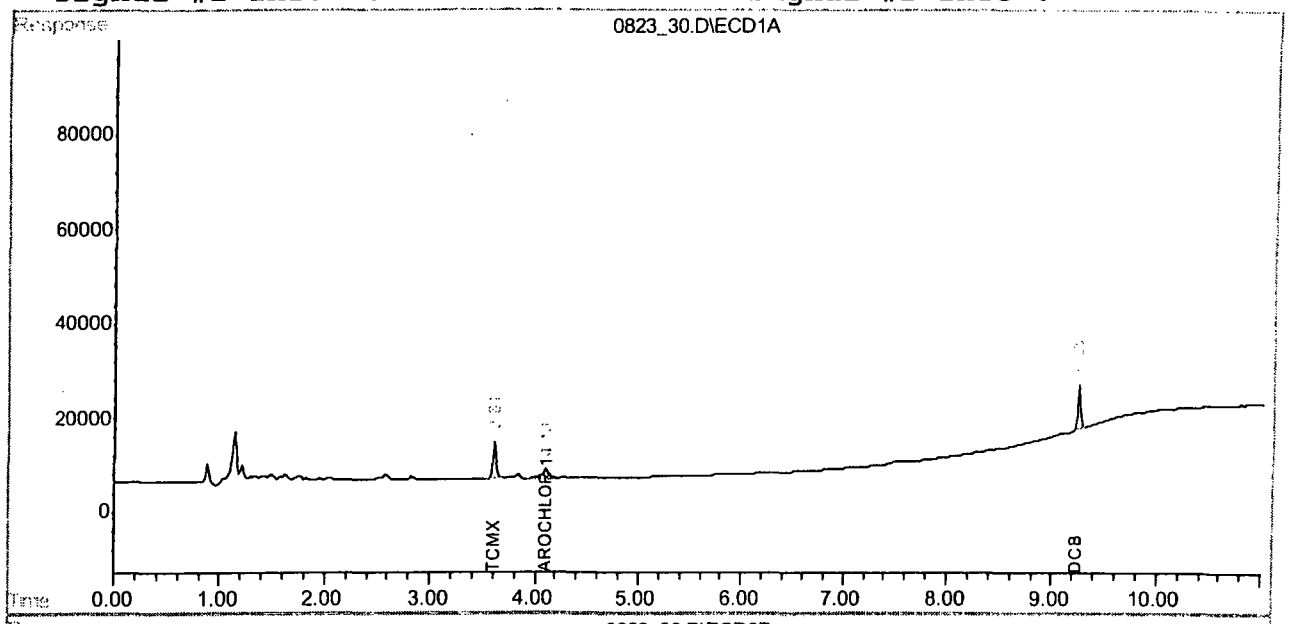
(f)=RT Delta > 1/2 Window (m)=manual int.

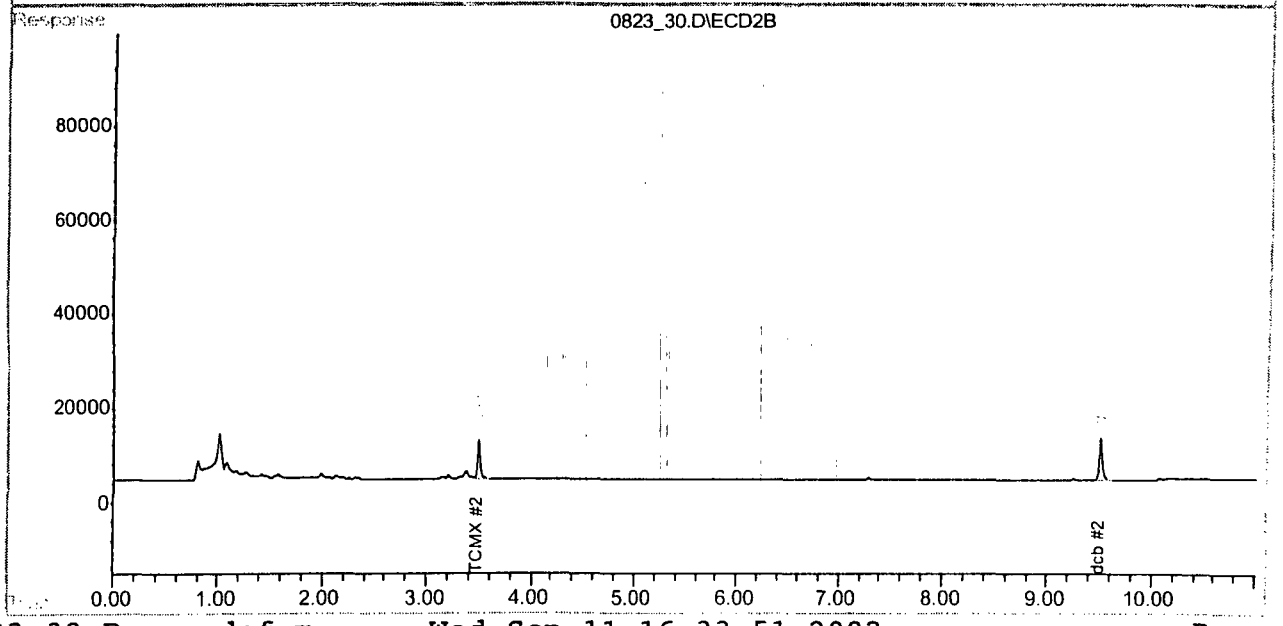
Quantitation Report (QT Reviewed)

Signal #1 : D:\DATA\SVGC#5\082302\0823_30.D\ECD1A.CH Vial: 28
Signal #2 : D:\DATA\SVGC#5\082302\0823_30.D\ECD2B.CH
Acq On : 23 Aug 2002 8:27 pm Operator: 308
Sample : L87214-06 10x WG81519 30-10 Inst : SVGC5
Misc : Multiplr: 10.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Aug 24 15:04 2002 Quant Results File: PCB7.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB7.M (Chemstation Integrator)
Title :
Last Update : Fri Aug 23 17:36:41 2002
Response via : Multiple Level Calibration
DataAcq Meth : PCB7.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





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Quantitation Report (QT Reviewed)

Signal #1 : D:\DATA\SVGC#5\082302\0823_31.D\ECD1A.CH Vial: 29
Signal #2 : D:\DATA\SVGC#5\082302\0823_31.D\ECD2B.CH
Acq On : 23 Aug 2002 8:42 pm Operator: 308
Sample : L87214-03 20x WG81519 wipe-10 Inst : SVGC5
Misc : Multiplr: 20.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Aug 24 15:04 2002 Quant Results File: PCB7.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB7.M (Chemstation Integrator)
Title :
Last Update : Fri Aug 23 17:36:41 2002
Response via : Initial Calibration
DataAcq Meth : PCB7.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) s TCMX	3.61	95274	0.113 µg/mL
Spiked Amount 0.200	Range 41 - 145	Recovery =	56.50%
10) s DCB	9.25	95110	0.182 µg/mLm
Spiked Amount 0.200	Range 39 - 137	Recovery =	91.00%
12) s TCMX #2	3.50	78601	0.106 µg/mL
Spiked Amount 0.200	Range 41 - 145	Recovery =	53.00%
21) s dcb #2	9.51	101853	0.196 µg/mL
Spiked Amount 0.200	Range 39 - 137	Recovery =	98.00%
Target Compounds			
2) m,t AROCHLOR 1016(1)	0.00	0	N.D. µg/mL
3) m,t AROCHLOR 1016(2)	0.00	0	N.D. µg/mL
4) m,t AROCHLOR 1016(3)	0.00	0	N.D. µg/mL
5) m,t AROCHLOR 1016(4)	0.00	0	N.D. µg/mL
6) m,t AROCHLOR 1260(1)	0.00	0	N.D. µg/mL
7) m,t AROCHLOR 1260(2)	0.00	0	N.D. µg/mL
8) m,t AROCHLOR 1260(3)	0.00	0	N.D. µg/mL
9) m,t AROCHLOR 1260(4)	0.00	0	N.D. µg/mL
13) m,t AROCHLOR 1016(1) #2	0.00	0	N.D. µg/mL
14) m,t AROCHLOR 1016(2) #2	0.00	0	N.D. µg/mL
15) m,t AROCHLOR 1016(3) #2	0.00	0	N.D. µg/mL
16) m,t AROCHLOR 1016(4) #2	0.00	0	N.D. µg/mL
17) m,t AROCHLOR 1260(1) #2	0.00	0	N.D. µg/mL
18) m,t AROCHLOR 1260(2) #2	0.00	0	N.D. µg/mL
19) m,t AROCHLOR 1260(3) #2	0.00	0	N.D. µg/mL
20) m,t AROCHLOR 1260(4) #2	0.00	0	N.D. µg/mL

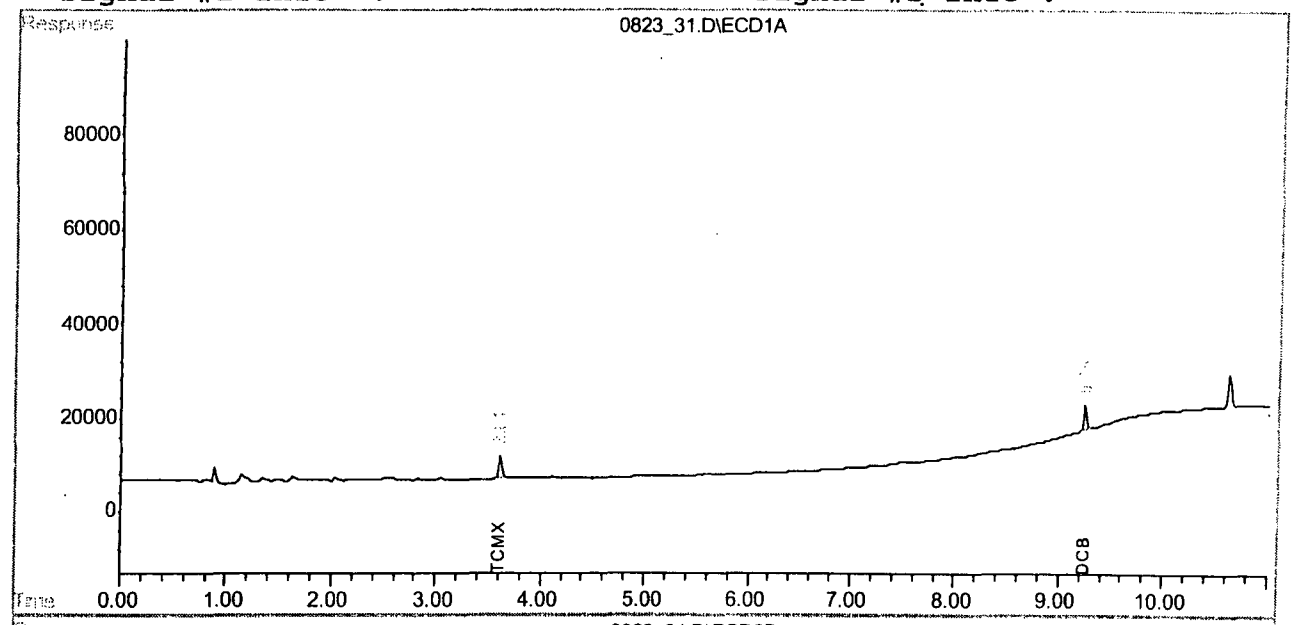
(f)=RT Delta > 1/2 Window (m)=manual int.
0823_31.D envdef.m Wed Sep 11 16:34:15 2002 Page 1

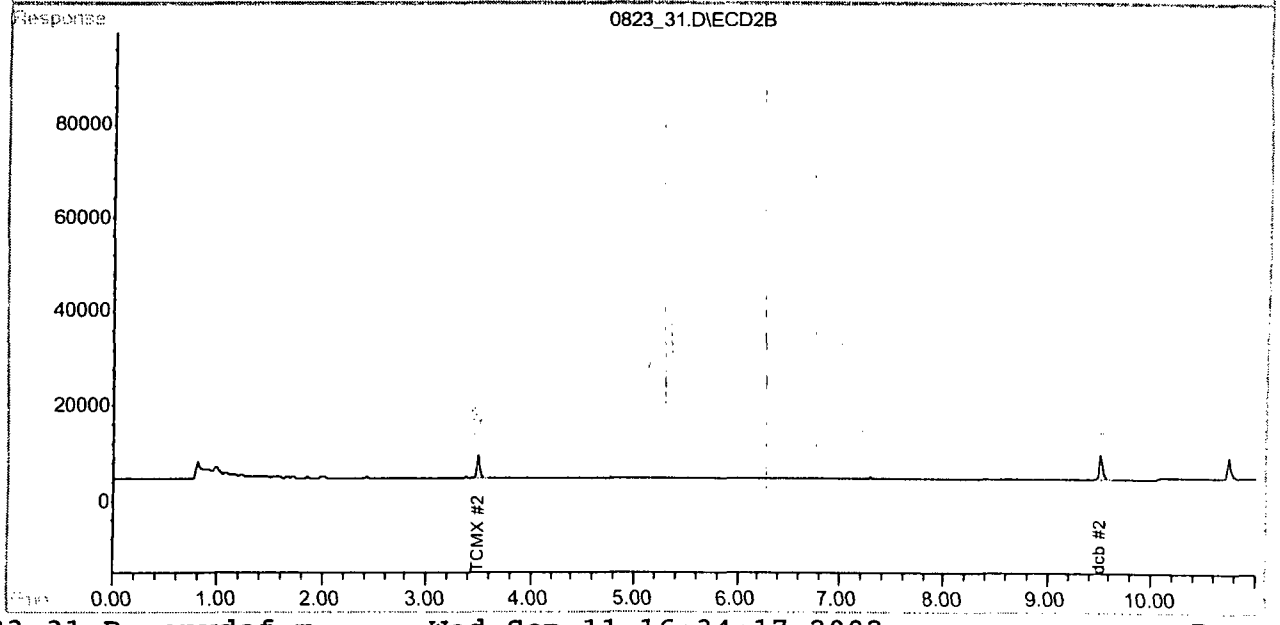
Quantitation Report (QT Reviewed)

Signal #1 : D:\DATA\SVGC#5\082302\0823_31.D\ECD1A.CH Vial: 29
Signal #2 : D:\DATA\SVGC#5\082302\0823_31.D\ECD2B.CH
Acq On : 23 Aug 2002 8:42 pm Operator: 308
Sample : L87214-03 20x WG81519 wipe-10 Inst : SVGC5
Misc : Multiplr: 20.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Aug 24 15:04 2002 Quant Results File: PCB7.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB7.M (Chemstation Integrator)
Title :
Last Update : Fri Aug 23 17:36:41 2002
Response via : Multiple Level Calibration
DataAcq Meth : PCB7.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





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Quantitation Report (QT Reviewed)

Signal #1 : D:\DATA\SVGC#5\082302\0823_32.D\ECD1A.CH Vial: 30
Signal #2 : D:\DATA\SVGC#5\082302\0823_32.D\ECD2B.CH
Acq On : 23 Aug 2002 8:57 pm Operator: 308
Sample : L87214-05 10x WG81519 30-10 Inst : SVGC5
Misc : Multiplr: 10.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Aug 24 15:05 2002 Quant Results File: PCB7.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB7.M (Chemstation Integrator)
Title :
Last Update : Fri Aug 23 17:36:41 2002
Response via : Initial Calibration
DataAcq Meth : PCB7.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) s TCMX	3.61	293342	0.174 µg/mL
Spiked Amount 0.200 Range 41 - 145		Recovery =	87.00%
10) s DCB	9.25	188262	0.180 µg/mLm
Spiked Amount 0.200 Range 39 - 137		Recovery =	90.00%
12) s TCMX #2	3.50	238601	0.161 µg/mL
Spiked Amount 0.200 Range 41 - 145		Recovery =	80.50%
21) s dcb #2	9.51	182389	0.175 µg/mL
Spiked Amount 0.200 Range 39 - 137		Recovery =	87.50%
Target Compounds			
2) m,t AROCHLOR 1016(1)	4.11f	48797	1.182 µg/mL
3) m,t AROCHLOR 1016(2)	0.00	0	N.D. µg/mL
4) m,t AROCHLOR 1016(3)	5.10	6973	0.109 µg/mL
5) m,t AROCHLOR 1016(4)	5.10f	6973	0.171 µg/mL
6) m,t AROCHLOR 1260(1)	6.44	98944	3.966 µg/mL
7) m,t AROCHLOR 1260(2)	6.74	89767	1.043 µg/mL
8) m,t AROCHLOR 1260(3)	7.29	156886	1.280 µg/mL
9) m,t AROCHLOR 1260(4)	7.93	21531	0.167 µg/mL
13) m,t AROCHLOR 1016(1) #2	0.00	0	N.D. µg/mL
14) m,t AROCHLOR 1016(2) #2	0.00	0	N.D. µg/mL
15) m,t AROCHLOR 1016(3) #2	0.00	0	N.D. µg/mL
16) m,t AROCHLOR 1016(4) #2	0.00	0	N.D. µg/mL
17) m,t AROCHLOR 1260(1) #2	6.58	69403	8.993 µg/mL
18) m,t AROCHLOR 1260(2) #2	6.88	73746	0.816 µg/mL
19) m,t AROCHLOR 1260(3) #2	7.43	149577	1.133 µg/mL
20) m,t AROCHLOR 1260(4) #2	8.03	25592	0.196 µg/mL

60

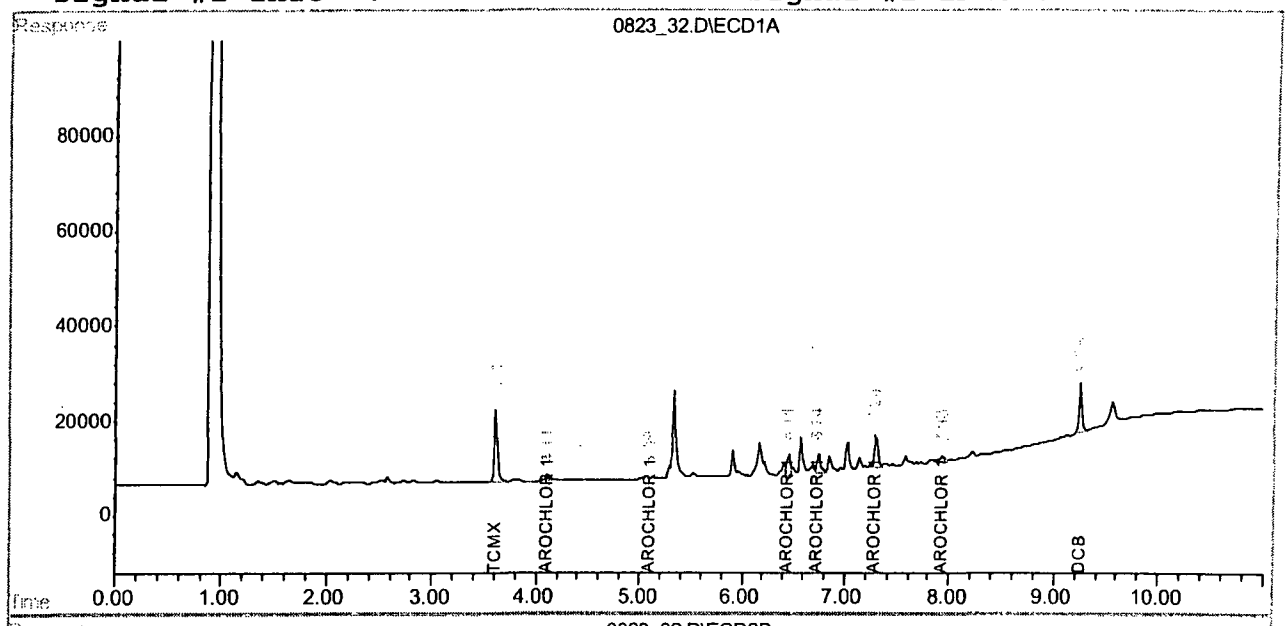
(f)=RT Delta > 1/2 Window (m)=manual int.

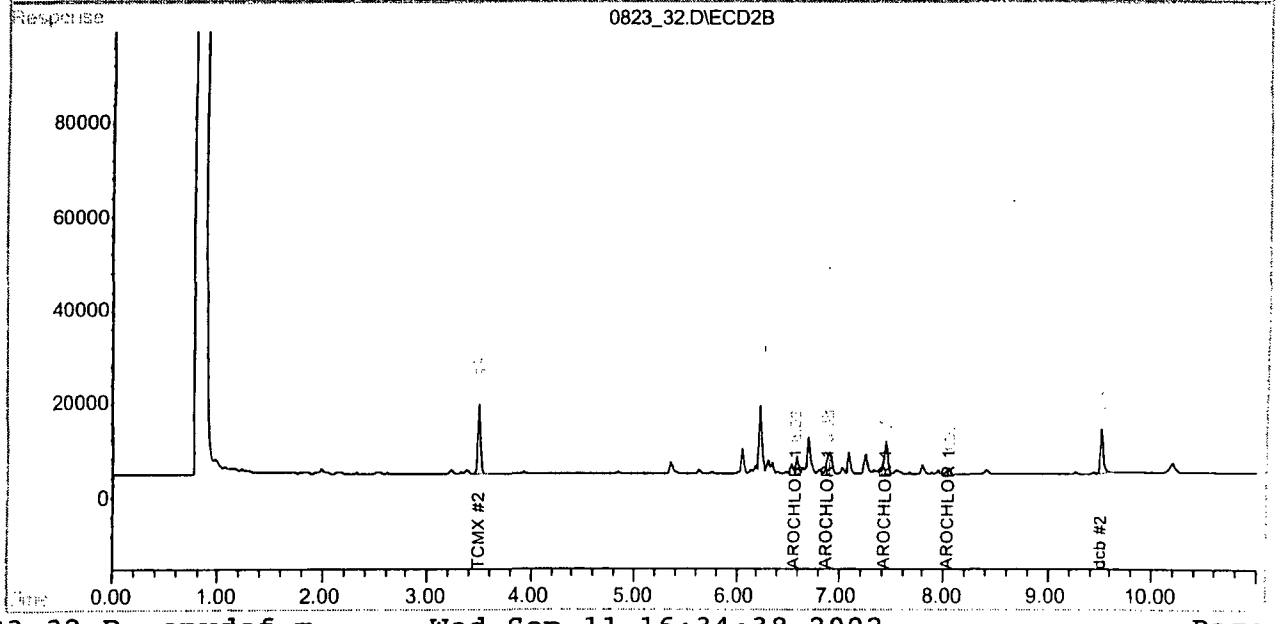
Quantitation Report (QT Reviewed)

Signal #1 : D:\DATA\SVGC#5\082302\0823_32.D\ECD1A.CH Vial: 30
Signal #2 : D:\DATA\SVGC#5\082302\0823_32.D\ECD2B.CH
Acq On : 23 Aug 2002 8:57 pm Operator: 308
Sample : L87214-05 10x WG81519 30-10 Inst : SVGC5
Misc : Multiplr: 10.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Aug 24 15:05 2002 Quant Results File: PCB7.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB7.M (Chemstation Integrator)
Title :
Last Update : Fri Aug 23 17:36:41 2002
Response via : Multiple Level Calibration
DataAcq Meth : PCB7.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





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Quantitation Report (QT Reviewed)

Signal #1 : D:\DATA\SVGC#5\082302\0823_32.D\ECD1A.CH Vial: 30
Signal #2 : D:\DATA\SVGC#5\082302\0823_32.D\ECD2B.CH
Acq On : 23 Aug 2002 8:57 pm Operator: 308
Sample : L87214-05 10x WG81519 30-10 Inst : SVGC5
Misc : Multiplr: 10.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Aug 24 14:56 2002 Quant Results File: 1254L.RES

Quant Method : C:\HPCHEM\1\METHODS\1254L.M (Chemstation Integrator)
Title :
Last Update : Thu Aug 22 21:24:25 2002
Response via : Initial Calibration
DataAcq Meth : PCB7.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound				R.T.	Response		Conc Units
System Monitoring Compounds							
1) s TCMX				3.61	293342		0.024 µg/mL
Spiked Amount	0.200	Range	41 - 145		Recovery	=	12.00%#
6) s DCB				9.25	289837		0.101 µg/mL
Spiked Amount	0.200	Range	39 - 137		Recovery	=	50.50%
8) s TCMX #2				3.50	238601		0.056 µg/mL
Spiked Amount	0.200	Range	41 - 145		Recovery	=	28.00%#
13) s dcb #2				9.51	182389		0.055 µg/mL
Spiked Amount	0.200	Range	39 - 137		Recovery	=	27.50%#
Target Compounds							
2) m,t AROCHLOR 1254(1)				5.28	51001		0.423 µg/mL
3) m,t AROCHLOR 1254(2)				5.52	22205		0.381 µg/mL
4) m,t AROCHLOR 1254(3)				6.56	181274		0.797 µg/mL
5) m,t AROCHLOR 1254(4)				7.01	132473		0.858 µg/mL
9) m,t AROCHLOR 1254(1) #2				5.63	21116		0.346 µg/mL
10) m,t AROCHLOR 1254(2) #2				5.75	7613		0.289 µg/mLm
11) m,t AROCHLOR 1254(3) #2				6.69	165744		0.627 µg/mL
12) m,t AROCHLOR 1254(4) #2				7.08	84119		0.708 µg/mL

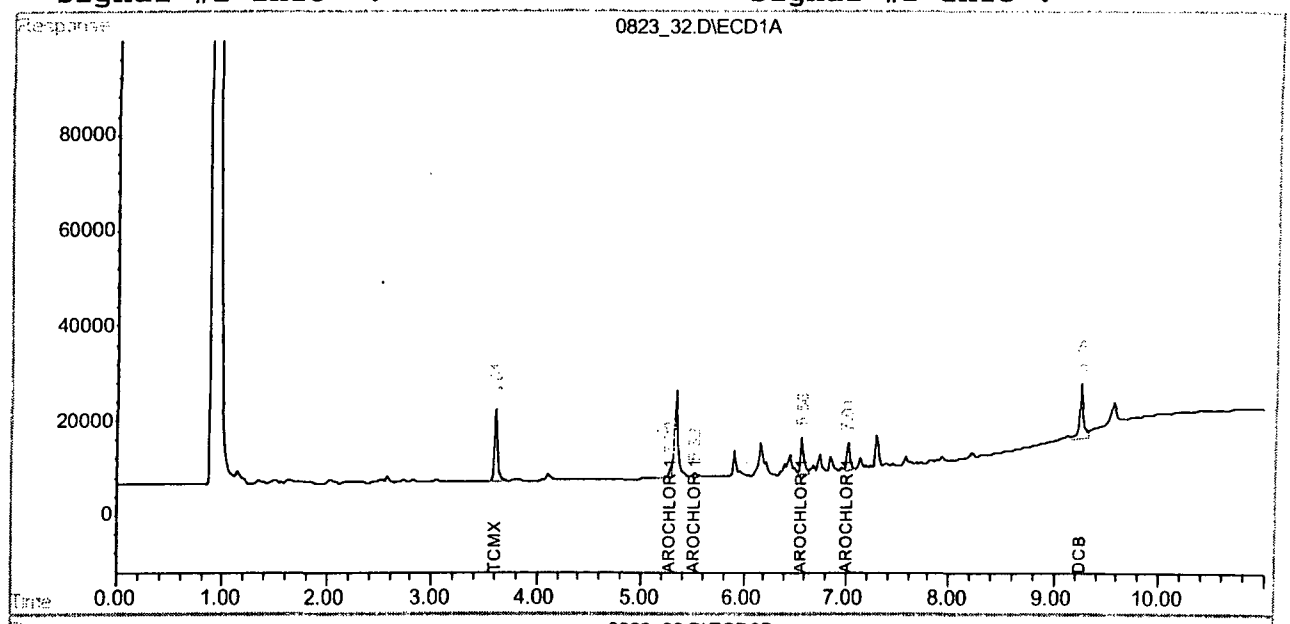
(f)=RT Delta > 1/2 Window (m)=manual int.
0823_32.D envdef.m Wed Sep 11 16:34:53 2002 Page 1

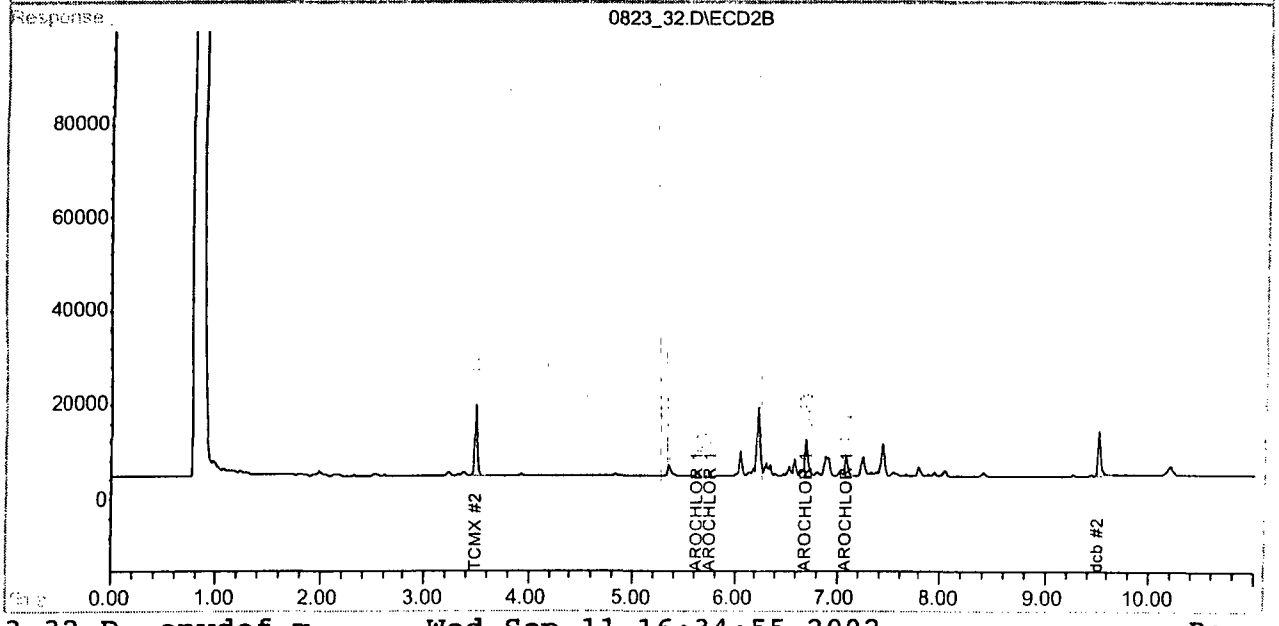
Quantitation Report (QT Reviewed)

Signal #1 : D:\DATA\SVGC#5\082302\0823_32.D\ECD1A.CH Vial: 30
Signal #2 : D:\DATA\SVGC#5\082302\0823_32.D\ECD2B.CH
Acq On : 23 Aug 2002 8:57 pm Operator: 308
Sample : L87214-05 10x WG81519 30-10 Inst : SVGC5
Misc : Multiplr: 10.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Aug 24 14:56 2002 Quant Results File: 1254L.RES

Quant Method : C:\HPCHEM\1\METHODS\1254L.M (Chemstation Integrator)
Title :
Last Update : Thu Aug 22 21:24:25 2002
Response via : Multiple Level Calibration
DataAcq Meth : PCB7.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





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Quantitation Report (Not Reviewed)

Signal #1 : D:\DATA\SVGC#5\082302\0823_33.D\ECD1A.CH Vial: 1
Signal #2 : D:\DATA\SVGC#5\082302\0823_33.D\ECD2B.CH
Acq On : 23 Aug 2002 9:11 pm Operator: 308
Sample : hexane Inst : SVGC5
Misc : Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Aug 23 21:22 2002 Quant Results File: PCB7.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB7.M (Chemstation Integrator)
Title :
Last Update : Fri Aug 23 17:36:41 2002
Response via : Initial Calibration
DataAcq Meth : PCB7.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound			R.T.	Response	Conc Units
System Monitoring Compounds					
1) s TCMX			3.59	118224	0.007 µg/mL
Spiked Amount	0.200	Range	41 - 145	Recovery =	3.50%#
10) s DCB			0.00	0	N.D. µg/mL
Spiked Amount	0.200	Range	39 - 137	Recovery =	0.00%#
12) s TCMX #2			0.00	0	N.D. µg/mL
Spiked Amount	0.200	Range	41 - 145	Recovery =	0.00%#
21) s dcb #2			0.00	0	N.D. µg/mL
Spiked Amount	0.200	Range	39 - 137	Recovery =	0.00%#
Target Compounds					
2) m,t AROCHLOR 1016(1)			0.00	0	N.D. µg/mL
3) m,t AROCHLOR 1016(2)			0.00	0	N.D. µg/mL
4) m,t AROCHLOR 1016(3)			0.00	0	N.D. µg/mL
5) m,t AROCHLOR 1016(4)			0.00	0	N.D. µg/mL
6) m,t AROCHLOR 1260(1)			0.00	0	N.D. µg/mL
7) m,t AROCHLOR 1260(2)			0.00	0	N.D. µg/mL
8) m,t AROCHLOR 1260(3)			7.24	40896	0.033 µg/mL
9) m,t AROCHLOR 1260(4)			0.00	0	N.D. µg/mL
13) m,t AROCHLOR 1016(1) #2			0.00	0	N.D. µg/mL
14) m,t AROCHLOR 1016(2) #2			0.00	0	N.D. µg/mL
15) m,t AROCHLOR 1016(3) #2			0.00	0	N.D. µg/mL
16) m,t AROCHLOR 1016(4) #2			0.00	0	N.D. µg/mL
17) m,t AROCHLOR 1260(1) #2			0.00	0	N.D. µg/mL
18) m,t AROCHLOR 1260(2) #2			0.00	0	N.D. µg/mL
19) m,t AROCHLOR 1260(3) #2			0.00	0	N.D. µg/mL
20) m,t AROCHLOR 1260(4) #2			8.04	13694	0.010 µg/mL

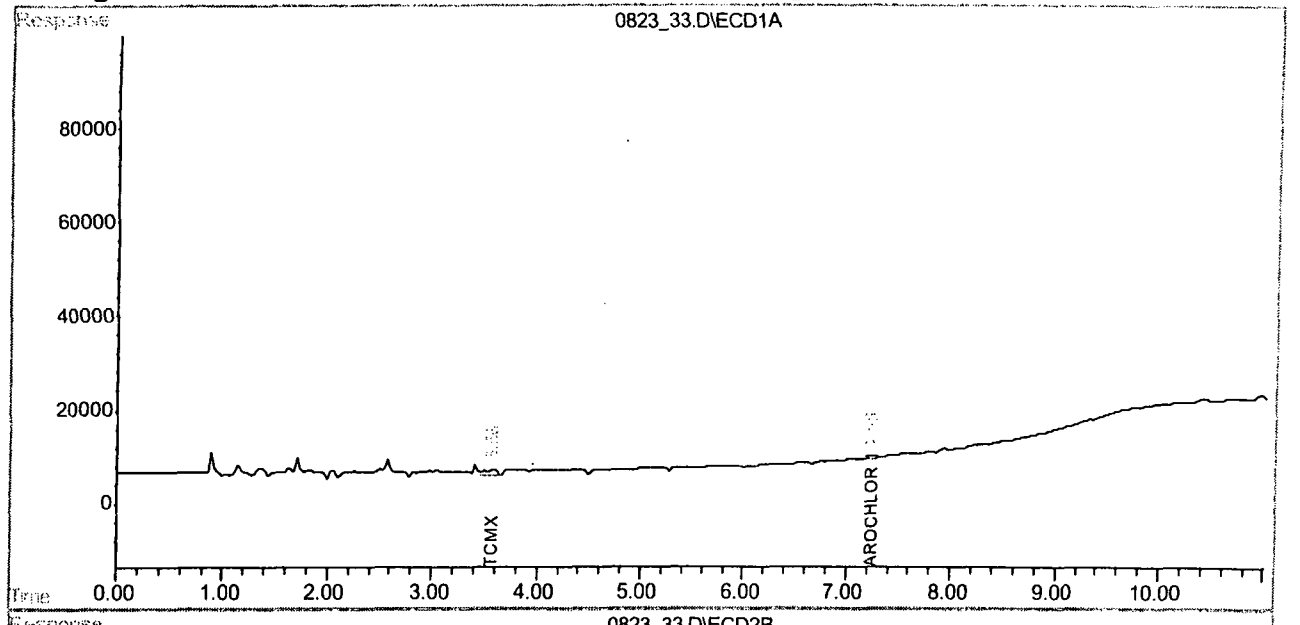
(f)=RT Delta > 1/2 Window (m)=manual int.
0823_33.D envdef.m Wed Sep 11 16:35:08 2002 Page 1

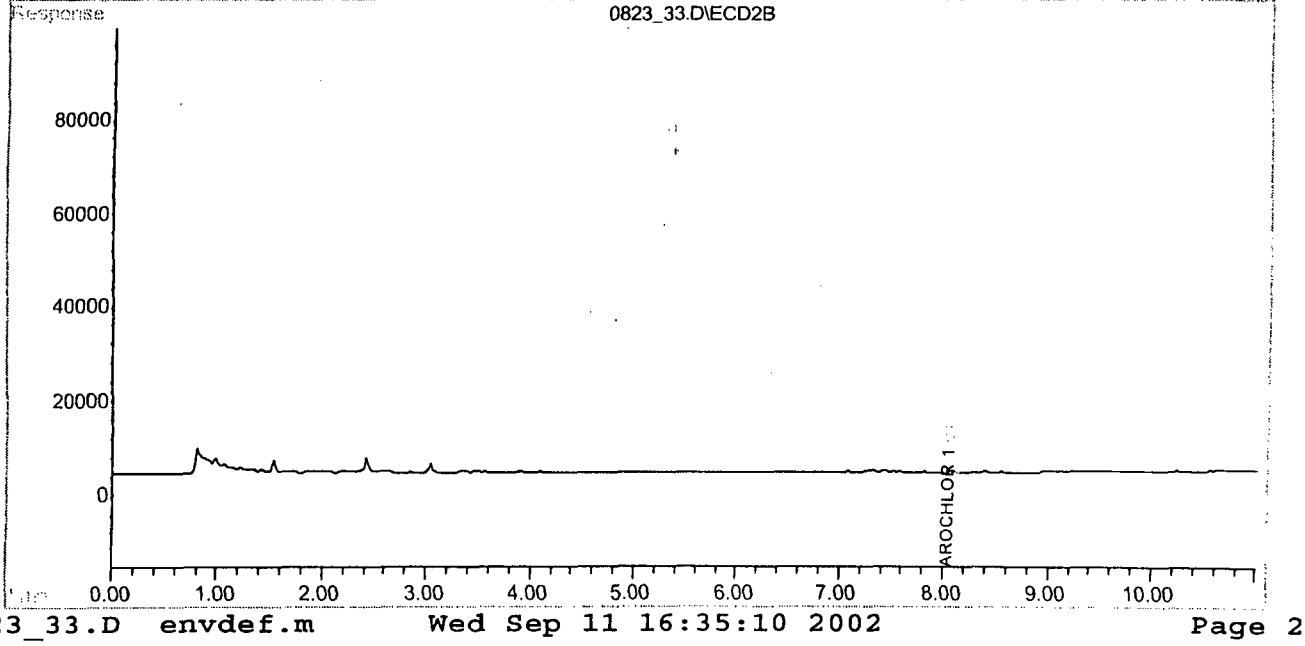
Quantitation Report (Not Reviewed)

Signal #1 : D:\DATA\SVGC#5\082302\0823_33.D\ECD1A.CH Vial: 1
Signal #2 : D:\DATA\SVGC#5\082302\0823_33.D\ECD2B.CH
Acq On : 23 Aug 2002 9:11 pm Operator: 308
Sample : hexane Inst : SVGC5
Misc : Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Aug 23 21:22 2002 Quant Results File: PCB7.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB7.M (Chemstation Integrator)
Title :
Last Update : Fri Aug 23 17:36:41 2002
Response via : Multiple Level Calibration
DataAcq Meth : PCB7.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





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Quantitation Report (QT Reviewed)

Signal #1 : D:\DATA\SVGC#5\082302\0823_34.D\ECD1A.CH Vial: 10
Signal #2 : D:\DATA\SVGC#5\082302\0823_34.D\ECD2B.CH
Acq On : 23 Aug 2002 9:26 pm Operator: 308
Sample : 1016/1260 .50ppm Inst : SVGC5
Misc : bx030104k30 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Aug 24 14:52 2002 Quant Results File: PCB7.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB7.M (Chemstation Integrator)
Title :
Last Update : Fri Aug 23 17:36:41 2002
Response via : Initial Calibration
DataAcq Meth : PCB7.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) s TCMX	3.60	1745686	0.104 µg/mL
Spiked Amount 0.200 Range 41 - 145		Recovery =	52.00%
10) s DCB	9.25	1115112	0.107 µg/mL
Spiked Amount 0.200 Range 39 - 137		Recovery =	53.50%
12) s TCMX #2	3.49	1512057	0.102 µg/mL
Spiked Amount 0.200 Range 41 - 145		Recovery =	51.00%
21) s dcb #2	9.51	1034563	0.099 µg/mL
Spiked Amount 0.200 Range 39 - 137		Recovery =	49.50%
Target Compounds			
2) m,t AROCHLOR 1016(1)	4.04	240165	0.582 µg/mL
3) m,t AROCHLOR 1016(2)	4.44	427756	0.538 µg/mL
4) m,t AROCHLOR 1016(3)	5.10	352601	0.552 µg/mL
5) m,t AROCHLOR 1016(4)	5.17	233728	0.575 µg/mL
6) m,t AROCHLOR 1260(1)	6.44	148514	0.595 µg/mL
7) m,t AROCHLOR 1260(2)	6.74	463457	0.539 µg/mL
8) m,t AROCHLOR 1260(3)	7.29	672559	0.549 µg/mL
9) m,t AROCHLOR 1260(4)	7.93	716090	0.554 µg/mL
13) m,t AROCHLOR 1016(1) #2	4.07	180977	0.513 µg/mL
14) m,t AROCHLOR 1016(2) #2	4.52	401412	0.508 µg/mL
15) m,t AROCHLOR 1016(3) #2	5.01	678083	0.510 µg/mL
16) m,t AROCHLOR 1016(4) #2	5.15	301732	0.518 µg/mL
17) m,t AROCHLOR 1260(1) #2	6.58	40108	0.520 µg/mL
18) m,t AROCHLOR 1260(2) #2	6.88	448234	0.496 µg/mL
19) m,t AROCHLOR 1260(3) #2	7.43	658493	0.499 µg/mL
20) m,t AROCHLOR 1260(4) #2	8.03	659244	0.504 µg/mL

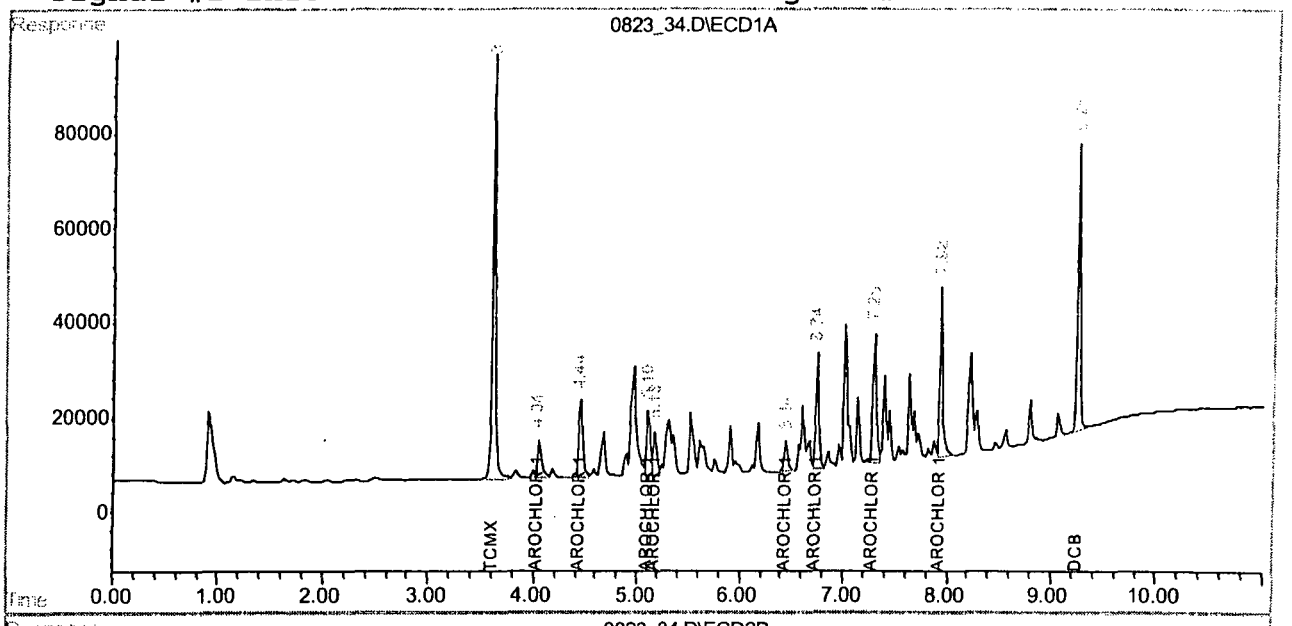
(f)=RT Delta > 1/2 Window (m)=manual int.
0823_34.D envdef.m Wed Sep 11 16:35:20 2002 Page 1

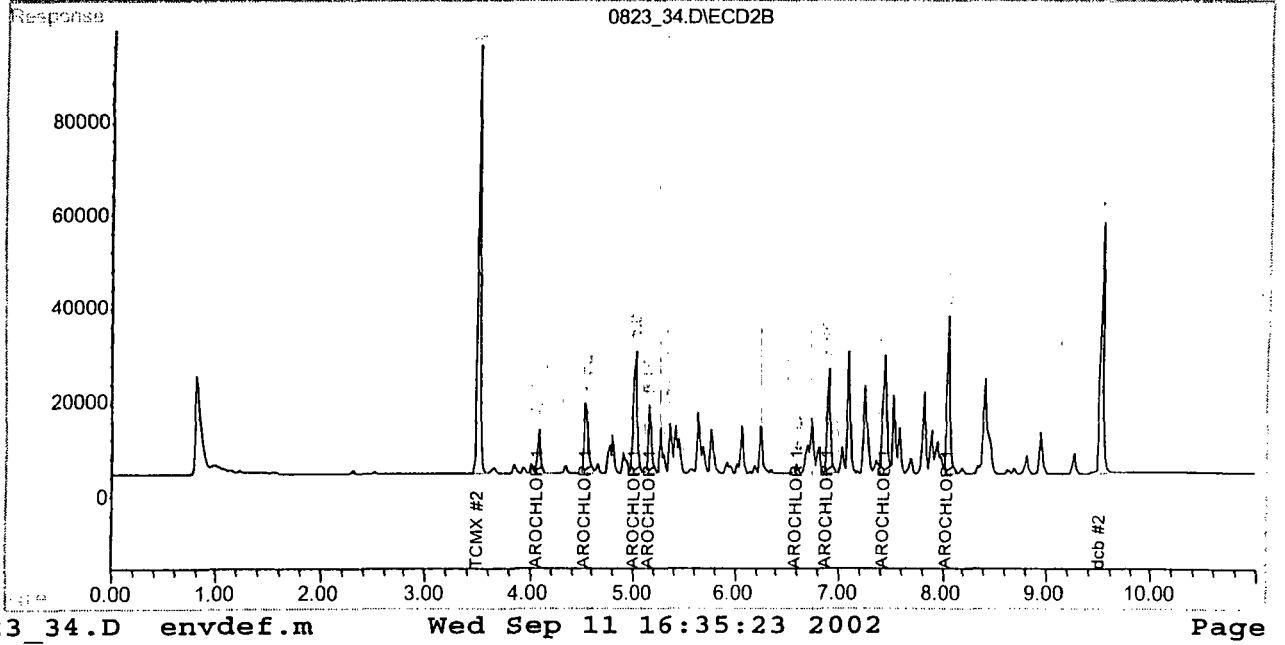
Quantitation Report (QT Reviewed)

Signal #1 : D:\DATA\SVGC#5\082302\0823_34.D\ECD1A.CH Vial: 10
Signal #2 : D:\DATA\SVGC#5\082302\0823_34.D\ECD2B.CH
Acq On : 23 Aug 2002 9:26 pm Operator: 308
Sample : 1016/1260 .50ppm Inst : SVGC5
Misc : bx030104k30 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Aug 24 14:52 2002 Quant Results File: PCB7.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB7.M (Chemstation Integrator)
Title :
Last Update : Fri Aug 23 17:36:41 2002
Response via : Multiple Level Calibration
DataAcq Meth : PCB7.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





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Quantitation Report (QT Reviewed)

Signal #1 : D:\DATA\SVGC#5\082302\0823_35.D\ECD1A.CH Vial: 31
Signal #2 : D:\DATA\SVGC#5\082302\0823_35.D\ECD2B.CH
Acq On : 23 Aug 2002 9:40 pm Operator: 308
Sample : MS 1x WG81519 L87214-02 30-10 Inst : SVGC5
Misc : Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Aug 24 15:08 2002 Quant Results File: PCB7.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB7.M (Chemstation Integrator)
Title :
Last Update : Fri Aug 23 17:36:41 2002
Response via : Initial Calibration
DataAcq Meth : PCB7.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) s TCMX	3.60	1917534	0.114 µg/mL
Spiked Amount 0.200 Range 41 - 145		Recovery =	57.00%
10) s DCB	9.25	1571734	0.150 µg/mL
Spiked Amount 0.200 Range 39 - 137		Recovery =	75.00%
12) s TCMX #2	3.49	1586580	0.107 µg/mL
Spiked Amount 0.200 Range 41 - 145		Recovery =	53.50%
21) s dcb #2	9.51	1221869	0.117 µg/mL
Spiked Amount 0.200 Range 39 - 137		Recovery =	58.50%
Target Compounds			
2) m,t AROCHLOR 1016(1)	4.02	43293	0.105 µg/mL
3) m,t AROCHLOR 1016(2)	4.38	46636	0.059 µg/mL
4) m,t AROCHLOR 1016(3)	0.00	0	N.D. µg/mL
5) m,t AROCHLOR 1016(4)	0.00	0	N.D. µg/mL
6) m,t AROCHLOR 1260(1)	6.44	81732	0.328 µg/mL
7) m,t AROCHLOR 1260(2)	6.74	314297	0.365 µg/mL
8) m,t AROCHLOR 1260(3)	7.29	437784	0.357 µg/mL
9) m,t AROCHLOR 1260(4)	7.93	564448	0.437 µg/mL
13) m,t AROCHLOR 1016(1) #2	0.00	0	N.D. µg/mL
14) m,t AROCHLOR 1016(2) #2	0.00	0	N.D. µg/mL
15) m,t AROCHLOR 1016(3) #2	0.00	0	N.D. µg/mL
16) m,t AROCHLOR 1016(4) #2	0.00	0	N.D. µg/mL
17) m,t AROCHLOR 1260(1) #2	6.58	18830	0.244 µg/mL
18) m,t AROCHLOR 1260(2) #2	6.88	292785	0.324 µg/mL
19) m,t AROCHLOR 1260(3) #2	7.43	418860	0.317 µg/mL
20) m,t AROCHLOR 1260(4) #2	8.03	506564	0.387 µg/mL

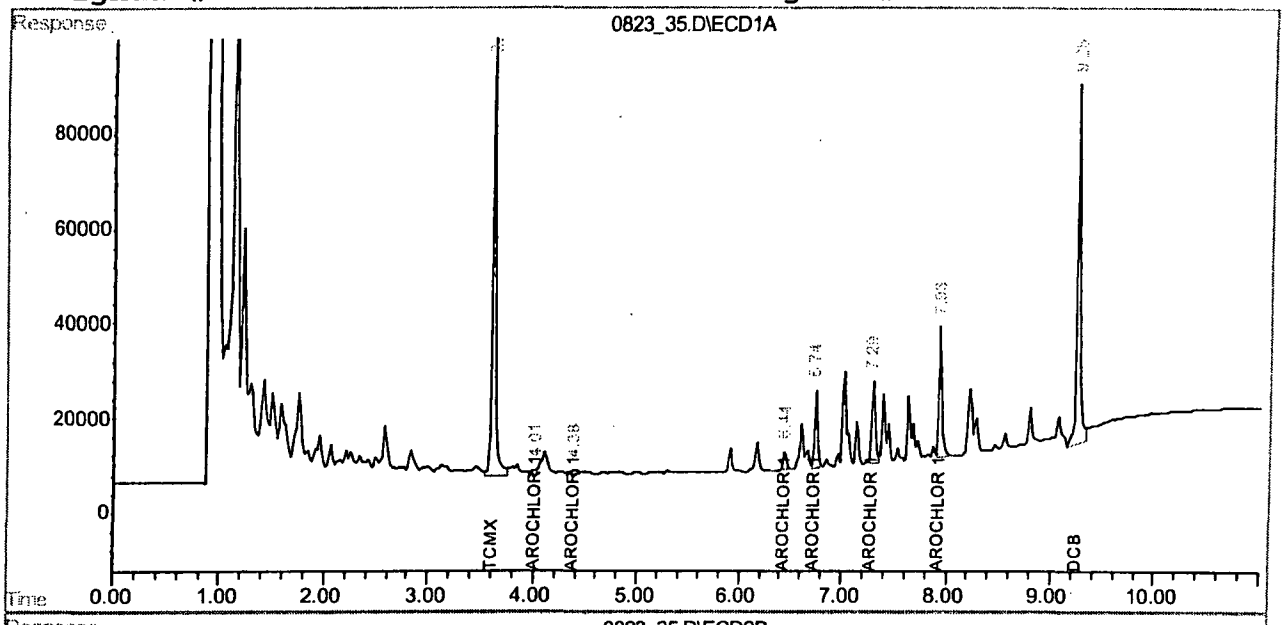
(f)=RT Delta > 1/2 Window (m)=manual int.
0823_35.D envdef.m Wed Sep 11 16:35:35 2002 Page 1

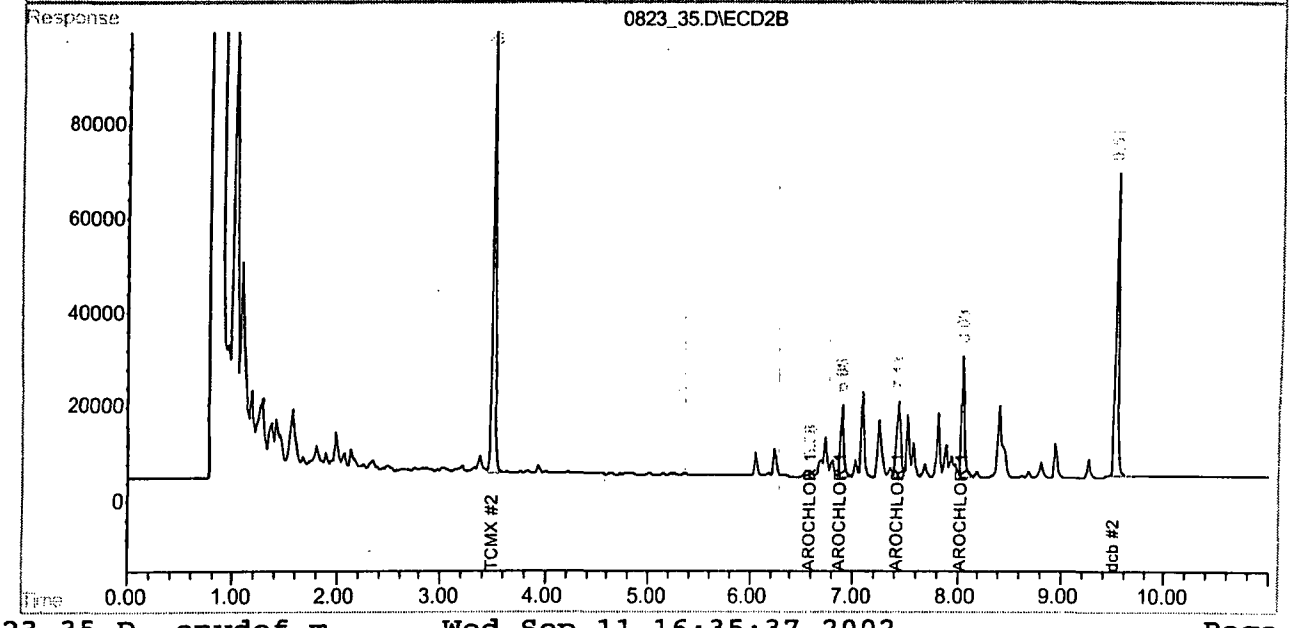
Quantitation Report (QT Reviewed)

Signal #1 : D:\DATA\SVGC#5\082302\0823_35.D\ECD1A.CH Vial: 31
Signal #2 : D:\DATA\SVGC#5\082302\0823_35.D\ECD2B.CH
Acq On : 23 Aug 2002 9:40 pm Operator: 308
Sample : MS 1x WG81519 L87214-02 30-10 Inst : SVGC5
Misc : Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Aug 24 15:08 2002 Quant Results File: PCB7.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB7.M (Chemstation Integrator)
Title :
Last Update : Fri Aug 23 17:36:41 2002
Response via : Multiple Level Calibration
DataAcq Meth : PCB7.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





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Quantitation Report (QT Reviewed)

Signal #1 : D:\DATA\SVGC#5\082302\0823_36.D\ECD1A.CH Vial: 32
Signal #2 : D:\DATA\SVGC#5\082302\0823_36.D\ECD2B.CH
Acq On : 23 Aug 2002 9:55 pm Operator: 308
Sample : MSD 1x WG81519 L87214-02 30-10 Inst : SVGC5
Misc : Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Aug 24 15:08 2002 Quant Results File: PCB7.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB7.M (Chemstation Integrator)
Title :
Last Update : Fri Aug 23 17:36:41 2002
Response via : Initial Calibration
DataAcq Meth : PCB7.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound				R.T.	Response		Conc Units
System Monitoring Compounds							
1) s TCMX				3.60	2034302		0.121 µg/mL
Spiked Amount	0.200	Range	41 - 145		Recovery	=	60.50%
10) s DCB				9.25	1449928		0.139 µg/mL
Spiked Amount	0.200	Range	39 - 137		Recovery	=	69.50%
12) s TCMX #2				3.49	1651907		0.112 µg/mL
Spiked Amount	0.200	Range	41 - 145		Recovery	=	56.00%
21) s dcb #2				9.51	1223170		0.117 µg/mL
Spiked Amount	0.200	Range	39 - 137		Recovery	=	58.50%
Target Compounds							
2) m,t AROCHLOR 1016(1)				4.02	51230		0.124 µg/mL
3) m,t AROCHLOR 1016(2)				4.38	61002		0.077 µg/mL
4) m,t AROCHLOR 1016(3)				0.00	0		N.D. µg/mL
5) m,t AROCHLOR 1016(4)				0.00	0		N.D. µg/mL
6) m,t AROCHLOR 1260(1)				6.44	87638		0.351 µg/mL
7) m,t AROCHLOR 1260(2)				6.74	323230		0.376 µg/mL
8) m,t AROCHLOR 1260(3)				7.29	444438		0.363 µg/mL
9) m,t AROCHLOR 1260(4)				7.93	566253		0.438 µg/mL
13) m,t AROCHLOR 1016(1) #2				0.00	0		N.D. µg/mL
14) m,t AROCHLOR 1016(2) #2				0.00	0		N.D. µg/mL
15) m,t AROCHLOR 1016(3) #2				0.00	0		N.D. µg/mL
16) m,t AROCHLOR 1016(4) #2				0.00	0		N.D. µg/mL
17) m,t AROCHLOR 1260(1) #2				6.58	18738		0.243 µg/mL
18) m,t AROCHLOR 1260(2) #2				6.88	297138		0.329 µg/mL
19) m,t AROCHLOR 1260(3) #2				7.43	419156		0.317 µg/mL
20) m,t AROCHLOR 1260(4) #2				8.03	501887		0.384 µg/mL

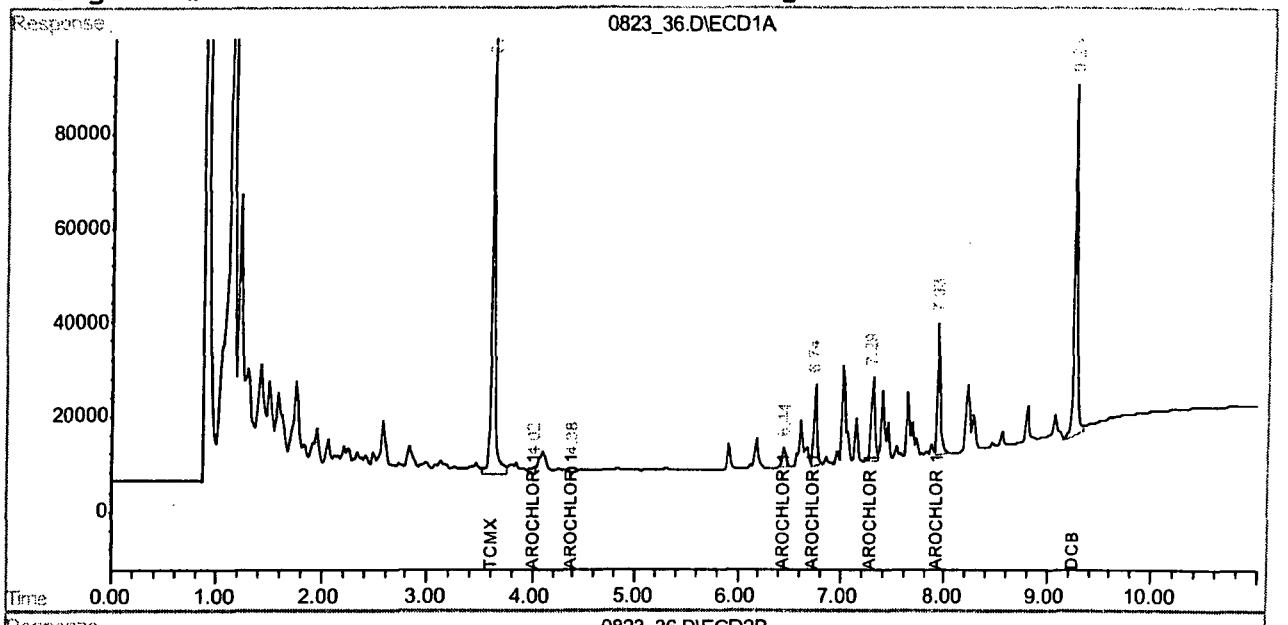
(f)=RT Delta > 1/2 Window (m)=manual int.
0823_36.D envdef.m Wed Sep 11 16:35:48 2002 Page 1

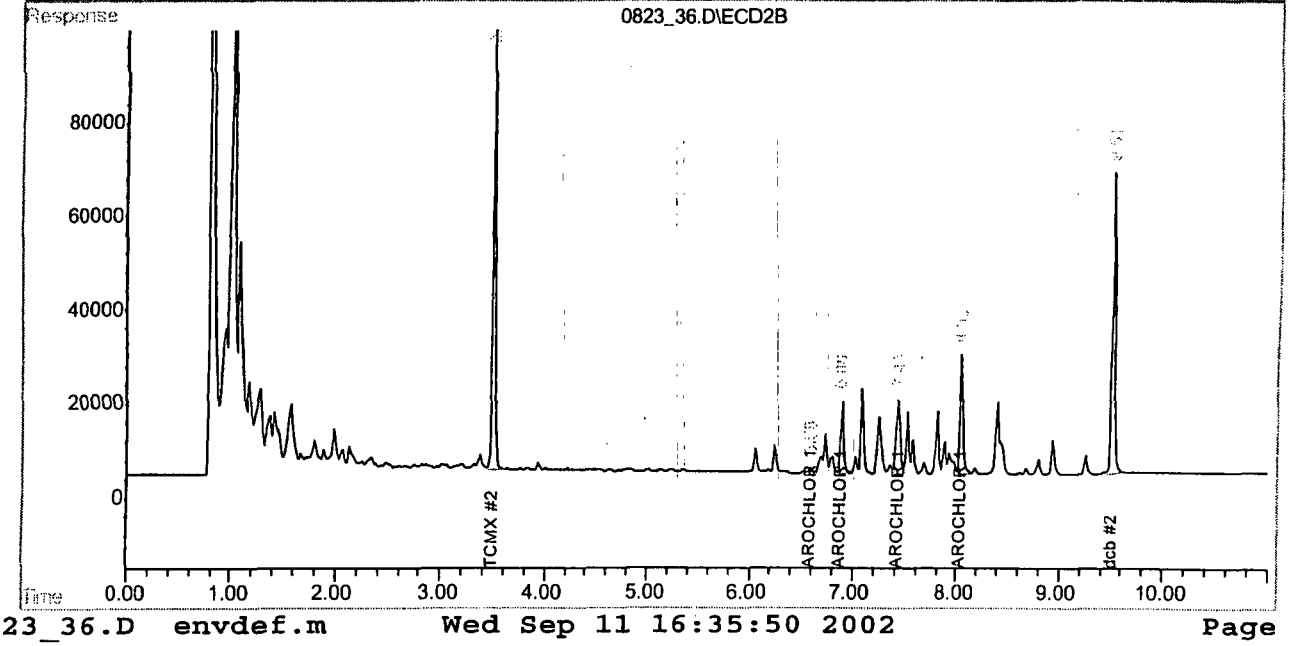
Quantitation Report (QT Reviewed)

Signal #1 : D:\DATA\SVGC#5\082302\0823_36.D\ECD1A.CH Vial: 32
Signal #2 : D:\DATA\SVGC#5\082302\0823_36.D\ECD2B.CH
Acq On : 23 Aug 2002 9:55 pm Operator: 308
Sample : MSD 1x WG81519 L87214-02 30-10 Inst : SVGC5
Misc : Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Aug 24 15:08 2002 Quant Results File: PCB7.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB7.M (Chemstation Integrator)
Title :
Last Update : Fri Aug 23 17:36:41 2002
Response via : Multiple Level Calibration
DataAcq Meth : PCB7.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





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Quantitation Report (QT Reviewed)

Signal #1 : D:\DATA\SVGC#5\082302\0823_38.D\ECD1A.CH Vial: 10
Signal #2 : D:\DATA\SVGC#5\082302\0823_38.D\ECD2B.CH
Acq On : 23 Aug 2002 10:24 pm Operator: 308
Sample : 1016/1260 .50ppm Inst : SVGC5
Misc : bx030104k30 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Aug 24 14:53 2002 Quant Results File: PCB7.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB7.M (Chemstation Integrator)
Title :
Last Update : Fri Aug 23 17:36:41 2002
Response via : Initial Calibration
DataAcq Meth : PCB7.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) s TCMX	3.60	1749697	0.104 µg/mL
Spiked Amount 0.200 Range 41 - 145		Recovery =	52.00%
10) s DCB	9.25	1210155	0.116 µg/mL
Spiked Amount 0.200 Range 39 - 137		Recovery =	58.00%
12) s TCMX #2	3.50	1495862	0.101 µg/mL
Spiked Amount 0.200 Range 41 - 145		Recovery =	50.50%
21) s dcb #2	9.51	1015396	0.098 µg/mL
Spiked Amount 0.200 Range 39 - 137		Recovery =	49.00%
Target Compounds			
2) m,t AROCHLOR 1016(1)	4.04	241850	0.586 µg/mL
3) m,t AROCHLOR 1016(2)	4.44	430715	0.541 µg/mL
4) m,t AROCHLOR 1016(3)	5.10	356499	0.558 µg/mL
5) m,t AROCHLOR 1016(4)	5.17	236064	0.580 µg/mL
6) m,t AROCHLOR 1260(1)	6.44	151144	0.606 µg/mL
7) m,t AROCHLOR 1260(2)	6.74	467802	0.544 µg/mL
8) m,t AROCHLOR 1260(3)	7.29	681934	0.556 µg/mL
9) m,t AROCHLOR 1260(4)	7.93	728861	0.564 µg/mL
13) m,t AROCHLOR 1016(1) #2	4.08	178392	0.506 µg/mL
14) m,t AROCHLOR 1016(2) #2	4.52	399109	0.505 µg/mL
15) m,t AROCHLOR 1016(3) #2	5.01	671536	0.505 µg/mL
16) m,t AROCHLOR 1016(4) #2	5.15	299183	0.513 µg/mL
17) m,t AROCHLOR 1260(1) #2	6.58	40290	0.522 µg/mL
18) m,t AROCHLOR 1260(2) #2	6.88	450033	0.498 µg/mL
19) m,t AROCHLOR 1260(3) #2	7.43	659863	0.500 µg/mL
20) m,t AROCHLOR 1260(4) #2	8.03	663681	0.508 µg/mL

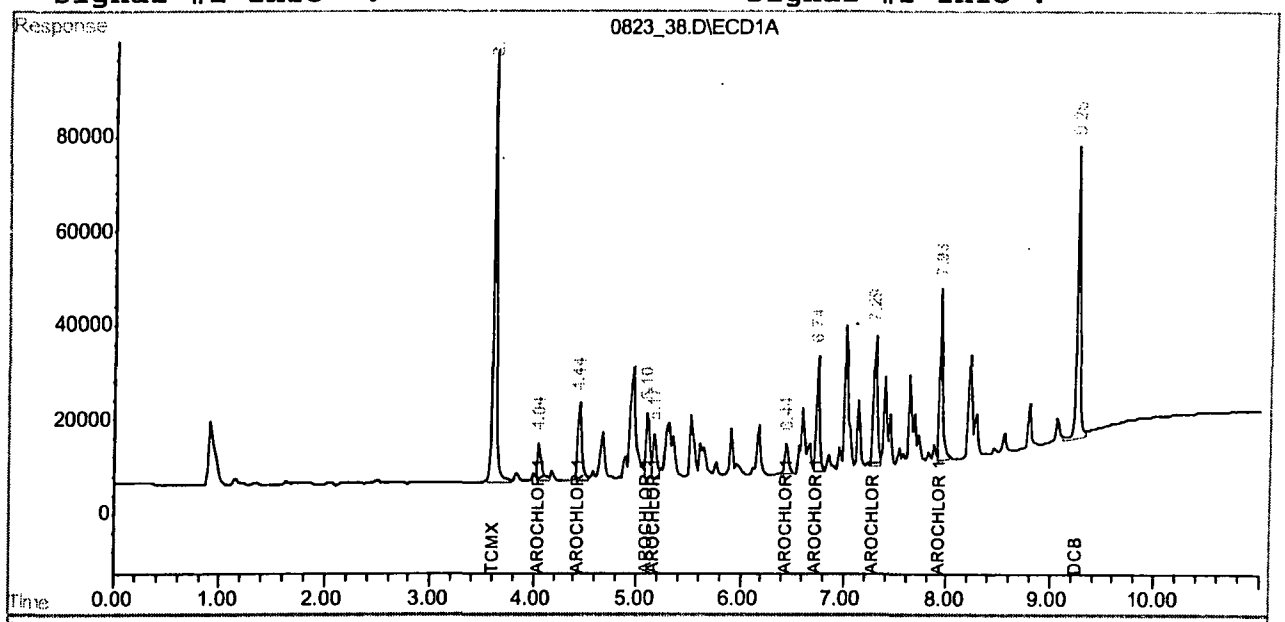
(f)=RT Delta > 1/2 Window (m)=manual int.

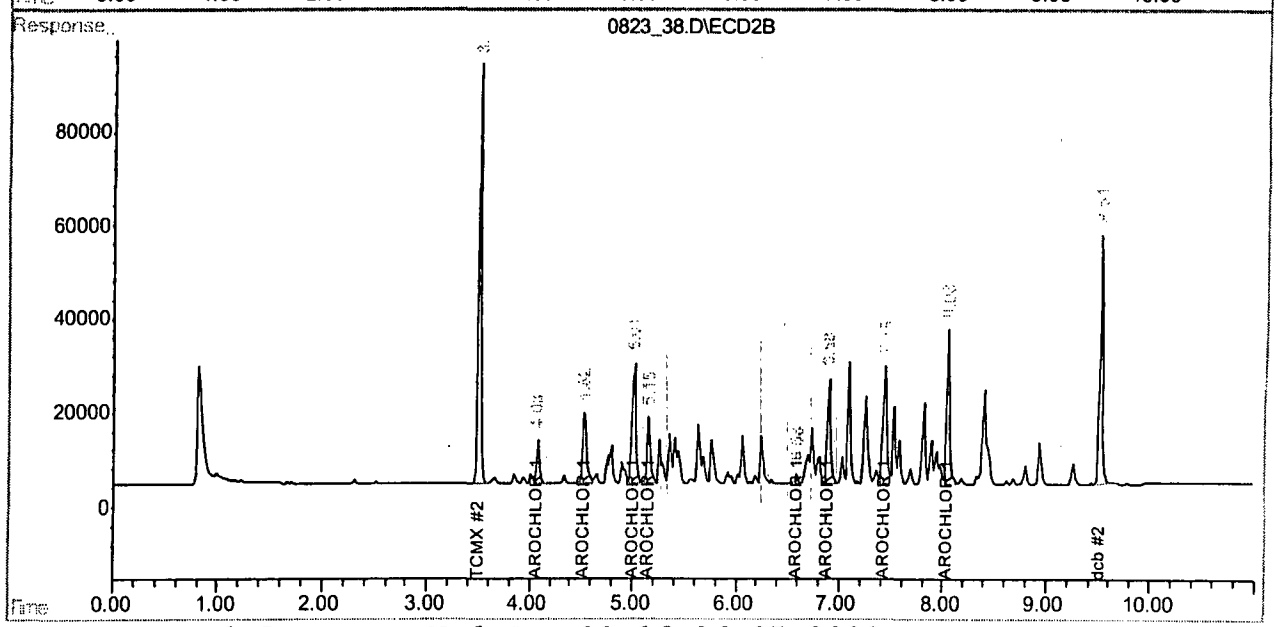
Quantitation Report (QT Reviewed)

Signal #1 : D:\DATA\SVGC#5\082302\0823_38.D\ECD1A.CH Vial: 10
Signal #2 : D:\DATA\SVGC#5\082302\0823_38.D\ECD2B.CH
Acq On : 23 Aug 2002 10:24 pm Operator: 308
Sample : 1016/1260 .50ppm Inst : SVGC5
Misc : bx030104k30 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Aug 24 14:53 2002 Quant Results File: PCB7.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB7.M (Chemstation Integrator)
Title :
Last Update : Fri Aug 23 17:36:41 2002
Response via : Multiple Level Calibration
DataAcq Meth : PCB7.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





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Quantitation Report (QT Reviewed)

Signal #1 : D:\DATA\SVGC#5\082302\0823_44.D\ECD1A.CH Vial: 12
Signal #2 : D:\DATA\SVGC#5\082302\0823_44.D\ECD2B.CH
Acq On : 24 Aug 2002 3:14 pm Operator: 308
Sample : 1254 1ppm Inst : SVGC5
Misc : bx030104k30 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Aug 25 13:22 2002 Quant Results File: 1254M.RES

Quant Method : C:\HPCHEM\1\METHODS\1254M.M (Chemstation Integrator)
Title :
Last Update : Sun Aug 25 13:22:17 2002
Response via : Initial Calibration
DataAcq Meth : PCB7.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

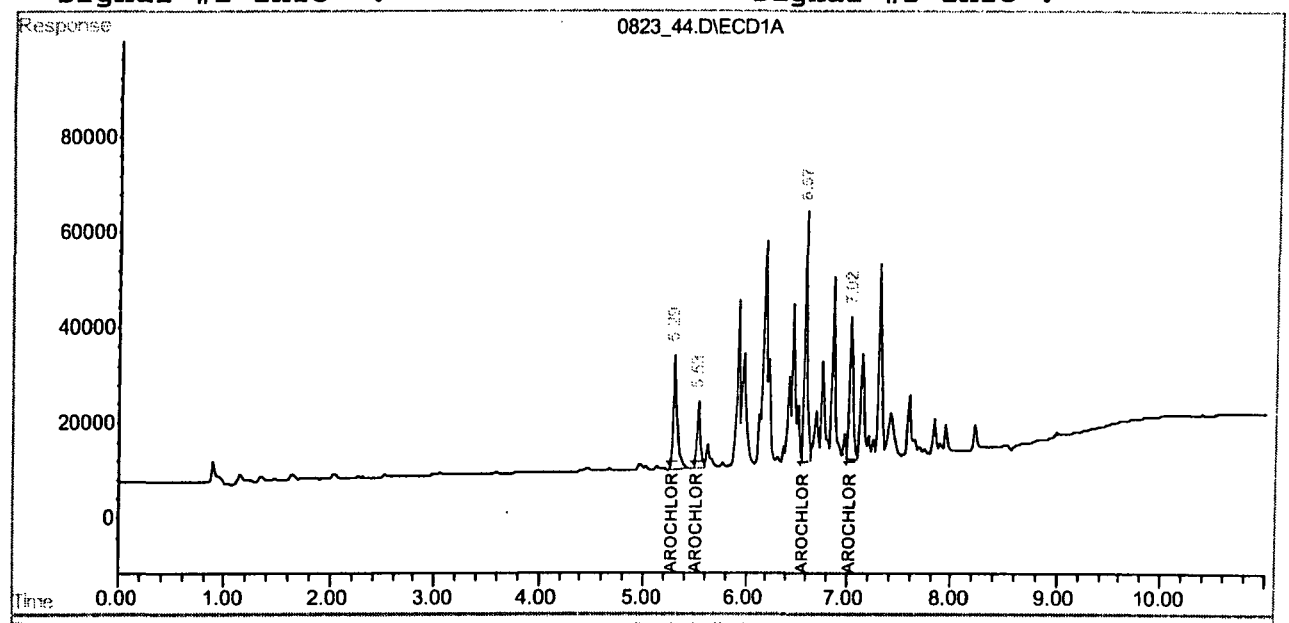
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) s TCMX	0.00	0	N.D. µg/mL
Spiked Amount 0.200 Range 41 - 145 Recovery = 0.00%#			
6) s DCB	0.00	0	N.D. µg/mL
Spiked Amount 0.200 Range 39 - 137 Recovery = 0.00%#			
8) s TCMX #2	0.00	0	N.D. µg/mL
Spiked Amount 0.200 Range 41 - 145 Recovery = 0.00%#			
13) s dcb #2	0.00	0	N.D. µg/mLd
Spiked Amount 0.200 Range 39 - 137 Recovery = 0.00%#			
Target Compounds			
2) m,t AROCHLOR 1254(1)	5.29	617840	1.000 µg/mL
3) m,t AROCHLOR 1254(2)	5.53	288763	1.000 µg/mL
4) m,t AROCHLOR 1254(3)	6.57	1087483	1.000 µg/mL
5) m,t AROCHLOR 1254(4)	7.02	739059	1.000 µg/mL
9) m,t AROCHLOR 1254(1) #2	5.64	256838	1.000 µg/mL
10) m,t AROCHLOR 1254(2) #2	5.76	99180	1.000 µg/mL
11) m,t AROCHLOR 1254(3) #2	6.70	1068828	1.000 µg/mL
12) m,t AROCHLOR 1254(4) #2	7.09	471376	1.000 µg/mL

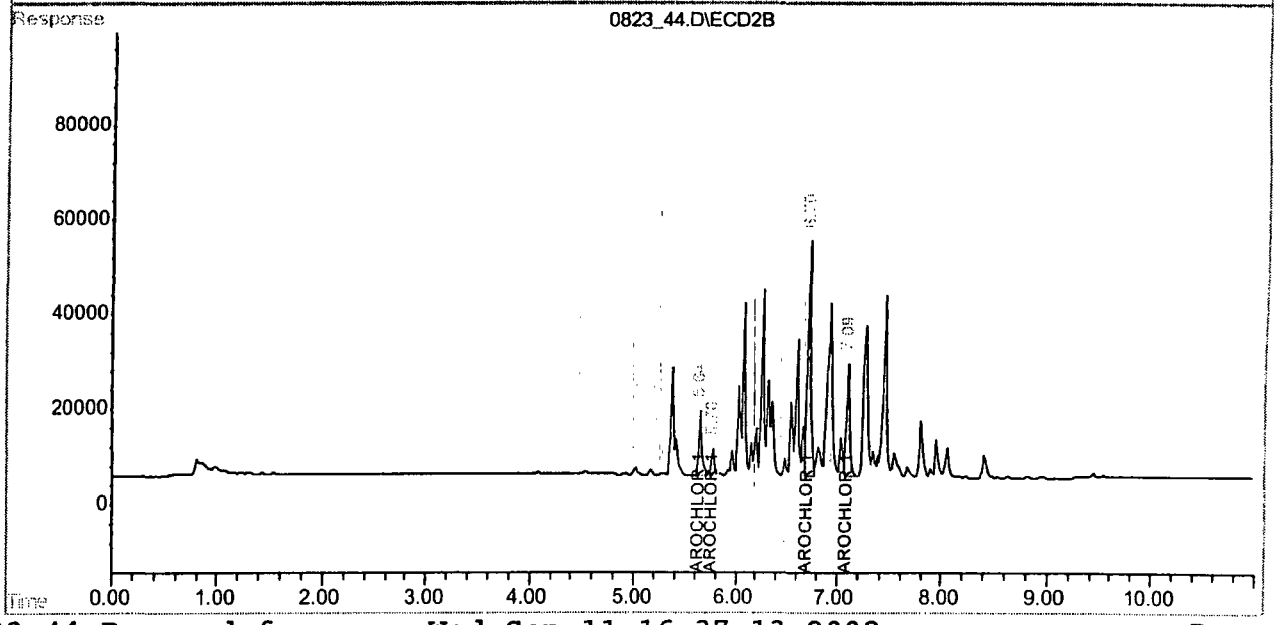
Quantitation Report (QT Reviewed)

Signal #1 : D:\DATA\SVGC#5\082302\0823_44.D\ECD1A.CH Vial: 12
Signal #2 : D:\DATA\SVGC#5\082302\0823_44.D\ECD2B.CH
Acq On : 24 Aug 2002 3:14 pm Operator: 308
Sample : 1254 1ppm Inst : SVGC5
Misc : bx030104k30 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Aug 25 13:22 2002 Quant Results File: 1254M.RES

Quant Method : C:\HPCHEM\1\METHODS\1254M.M (Chemstation Integrator)
Title :
Last Update : Sun Aug 25 13:22:17 2002
Response via : Multiple Level Calibration
DataAcq Meth : PCB7.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Signal #1 : D:\DATA\SVGC#5\082302\0823_45.D\ECD1A.CH Vial: 10
Signal #2 : D:\DATA\SVGC#5\082302\0823_45.D\ECD2B.CH
Acq On : 24 Aug 2002 4:50 pm Operator: 308
Sample : 1016/1260 .50ppm Inst : SVGC5
Misc : bx030104k30 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Aug 25 13:19 2002 Quant Results File: PCB7.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB7.M (Chemstation Integrator)
Title :
Last Update : Fri Aug 23 17:36:41 2002
Response via : Initial Calibration
DataAcq Meth : PCB7.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) s TCMX	3.61	1670272	0.099 µg/mL
Spiked Amount 0.200 Range 41 - 145		Recovery =	49.50%
10) s DCB	9.25	1143570	0.109 µg/mL
Spiked Amount 0.200 Range 39 - 137		Recovery =	54.50%
12) s TCMX #2	3.50	1456662	0.099 µg/mL
Spiked Amount 0.200 Range 41 - 145		Recovery =	49.50%
21) s dcb #2	9.51	933857	0.090 µg/mL
Spiked Amount 0.200 Range 39 - 137		Recovery =	45.00%
Target Compounds			
2) m,t AROCHLOR 1016(1)	4.04	190621	0.462 µg/mLm
3) m,t AROCHLOR 1016(2)	4.44	421960	0.530 µg/mL
4) m,t AROCHLOR 1016(3)	5.10	342622	0.537 µg/mL
5) m,t AROCHLOR 1016(4)	5.17	226648	0.557 µg/mL
6) m,t AROCHLOR 1260(1)	6.44	143117	0.574 µg/mL
7) m,t AROCHLOR 1260(2)	6.74	446429	0.519 µg/mL
8) m,t AROCHLOR 1260(3)	7.29	650711	0.531 µg/mL
9) m,t AROCHLOR 1260(4)	7.93	680884	0.527 µg/mL
13) m,t AROCHLOR 1016(1) #2	4.08	173844	0.493 µg/mL
14) m,t AROCHLOR 1016(2) #2	4.53	388779	0.492 µg/mL
15) m,t AROCHLOR 1016(3) #2	5.01	662158	0.498 µg/mL
16) m,t AROCHLOR 1016(4) #2	5.15	294068	0.505 µg/mL
17) m,t AROCHLOR 1260(1) #2	6.58	38749	0.502 µg/mL
18) m,t AROCHLOR 1260(2) #2	6.88	437668	0.484 µg/mL
19) m,t AROCHLOR 1260(3) #2	7.43	624053	0.473 µg/mL
20) m,t AROCHLOR 1260(4) #2	8.04	614911	0.470 µg/mL

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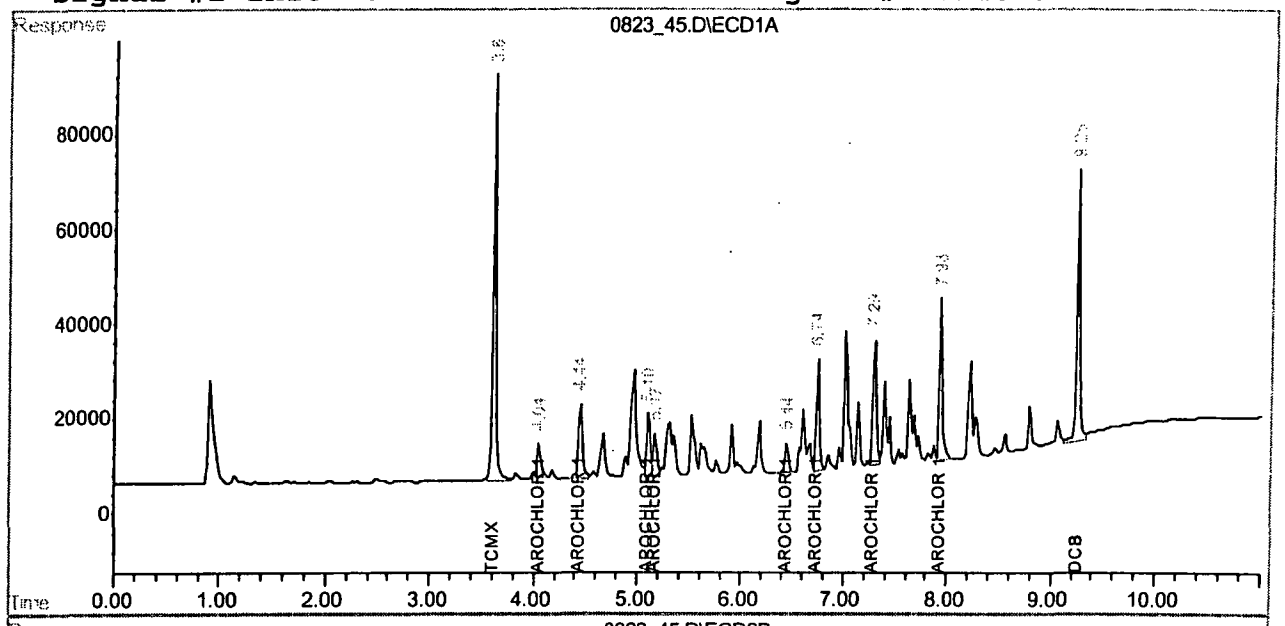
(f)=RT Delta > 1/2 Window (m)=manual int.

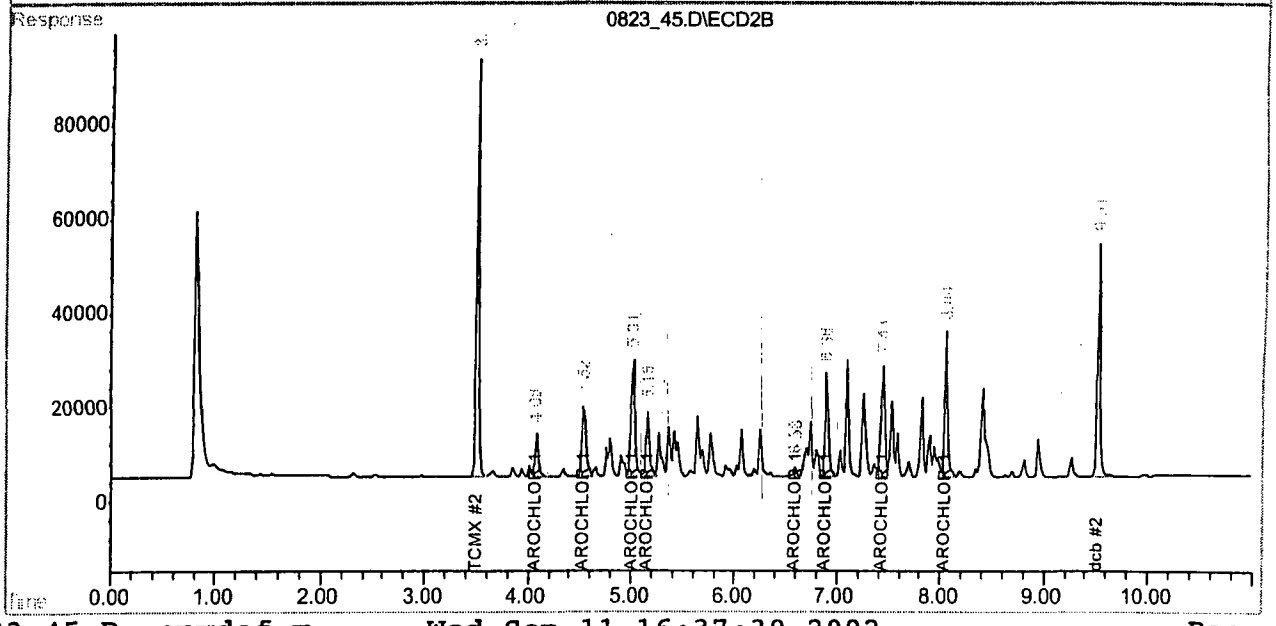
Quantitation Report (QT Reviewed)

Signal #1 : D:\DATA\SVGC#5\082302\0823_45.D\ECD1A.CH Vial: 10
Signal #2 : D:\DATA\SVGC#5\082302\0823_45.D\ECD2B.CH
Acq On : 24 Aug 2002 4:50 pm Operator: 308
Sample : 1016/1260 .50ppm Inst : SVGC5
Misc : bx030104k30 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Aug 25 13:19 2002 Quant Results File: PCB7.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB7.M (Chemstation Integrator)
Title :
Last Update : Fri Aug 23 17:36:41 2002
Response via : Multiple Level Calibration
DataAcq Meth : PCB7.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





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Quantitation Report (QT Reviewed)

Signal #1 : D:\DATA\SVGC#5\082302\0823_46.D\ECD1A.CH Vial: 2
Signal #2 : D:\DATA\SVGC#5\082302\0823_46.D\ECD2B.CH
Acq On : 24 Aug 2002 5:04 pm Operator: 308
Sample : Blank 1x WG81519 30-10 Inst : SVGC5
Misc : MG 8/23 surr ESC8082 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Aug 25 13:20 2002 Quant Results File: PCB7.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB7.M (Chemstation Integrator)
Title :
Last Update : Fri Aug 23 17:36:41 2002
Response via : Initial Calibration
DataAcq Meth : PCB7.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) s TCMX	3.60	2083346	0.124 µg/mL
Spiked Amount 0.200 Range 41 - 145		Recovery =	62.00%
10) s DCB	9.25	1571400	0.150 µg/mL
Spiked Amount 0.200 Range 39 - 137		Recovery =	75.00%
12) s TCMX #2	3.50	1885121	0.127 µg/mL
Spiked Amount 0.200 Range 41 - 145		Recovery =	63.50%
21) s dcb #2	9.51	1284090	0.123 µg/mL
Spiked Amount 0.200 Range 39 - 137		Recovery =	61.50%
Target Compounds			
2) m,t AROCHLOR 1016(1)	4.00	79877	0.194 µg/mL
3) m,t AROCHLOR 1016(2)	4.37f	67913	0.085 µg/mL
4) m,t AROCHLOR 1016(3)	0.00	0	N.D. µg/mL
5) m,t AROCHLOR 1016(4)	0.00	0	N.D. µg/mL
6) m,t AROCHLOR 1260(1)	0.00	0	N.D. µg/mL
7) m,t AROCHLOR 1260(2)	0.00	0	N.D. µg/mL
8) m,t AROCHLOR 1260(3)	0.00	0	N.D. µg/mL
9) m,t AROCHLOR 1260(4)	0.00	0	N.D. µg/mL
13) m,t AROCHLOR 1016(1) #2	0.00	0	N.D. µg/mL
14) m,t AROCHLOR 1016(2) #2	0.00	0	N.D. µg/mL
15) m,t AROCHLOR 1016(3) #2	0.00	0	N.D. µg/mL
16) m,t AROCHLOR 1016(4) #2	5.22f	10001	0.017 µg/mL
17) m,t AROCHLOR 1260(1) #2	0.00	0	N.D. µg/mL
18) m,t AROCHLOR 1260(2) #2	0.00	0	N.D. µg/mL
19) m,t AROCHLOR 1260(3) #2	0.00	0	N.D. µg/mL
20) m,t AROCHLOR 1260(4) #2	8.05	11357	0.009 µg/mL

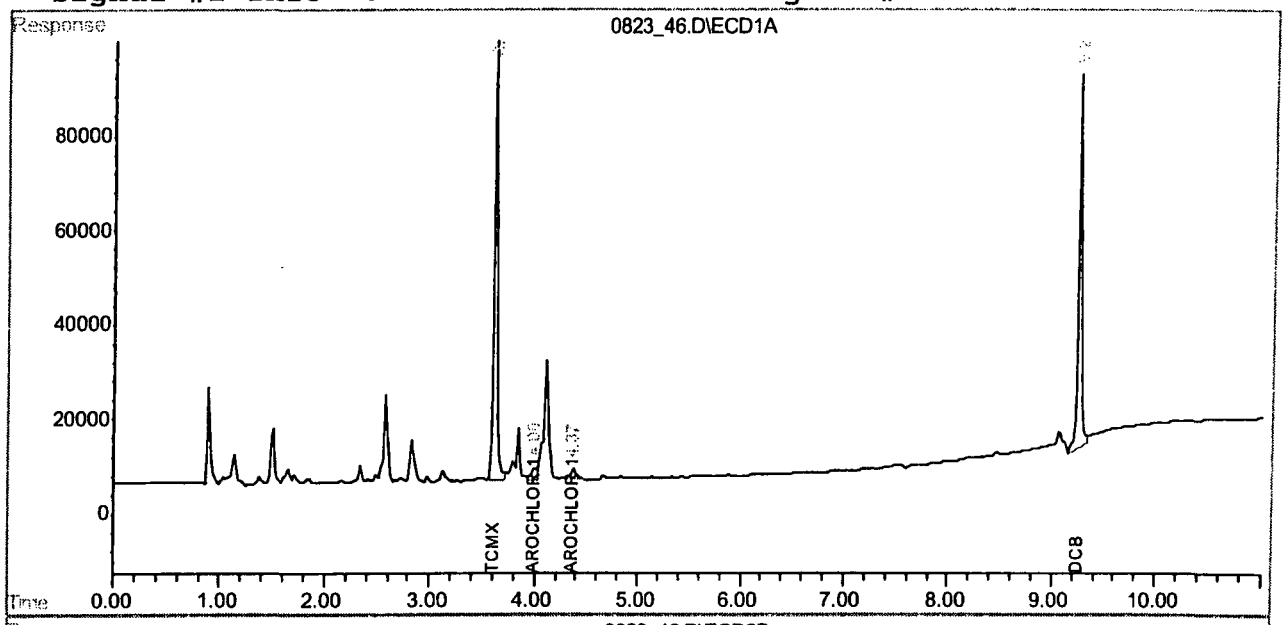
(f)=RT Delta > 1/2 Window (m)=manual int.
0823_46.D envdef.m Wed Sep 11 16:37:43 2002 Page 1

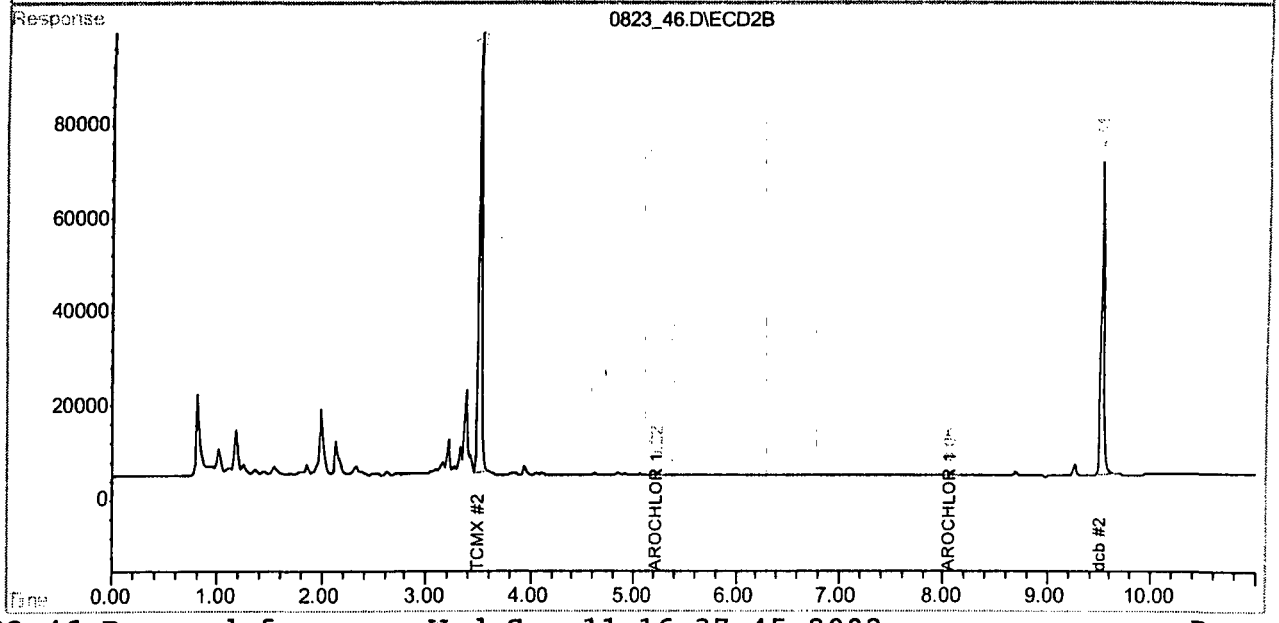
Quantitation Report (QT Reviewed)

Signal #1 : D:\DATA\SVGC#5\082302\0823_46.D\ECD1A.CH Vial: 2
Signal #2 : D:\DATA\SVGC#5\082302\0823_46.D\ECD2B.CH
Acq On : 24 Aug 2002 5:04 pm Operator: 308
Sample : Blank 1x WG81519 30-10 Inst : SVGC5
Misc : MG 8/23 surr ESC8082 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Aug 25 13:20 2002 Quant Results File: PCB7.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB7.M (Chemstation Integrator)
Title :
Last Update : Fri Aug 23 17:36:41 2002
Response via : Multiple Level Calibration
DataAcq Meth : PCB7.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Data File : D:\DATA\SVGC#5\082302\0823_47.D\ECD1A.CH Vial: 3
Acq On : 24 Aug 2002 5:19 pm Operator: 308
Sample : L87214-05 10x WG81519 30-10 H Inst : SVGC5
Misc : Multiplr: 10.00
IntFile : events.e

Data File : D:\DATA\SVGC#5\082302\0823_47.D\ECD2B.CH Vial: 3
Acq On : 24 Aug 2002 5:19 pm Operator: 308
Sample : L87214-05 10x WG81519 30-10 H Inst : SVGC5
Misc : Multiplr: 10.00
IntFile : events2.e
Quant Time: Aug 24 17:30 2002 Quant Results File: PCB7.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB7.M (Chemstation Integrator)
Title :
Last Update : Fri Aug 23 17:36:41 2002
Response via : Initial Calibration
DataAcq Meth : PCB7.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound			R.T.	Response	Conc Units
System Monitoring Compounds					
1) s TCMX			3.61	299221	0.178 µg/mL
Spiked Amount	0.200	Range	41 - 145	Recovery =	89.00%
10) s DCB			9.25	218323	0.209 µg/mL
Spiked Amount	0.200	Range	39 - 137	Recovery =	104.50%
12) s TCMX #2			3.50	251917	0.170 µg/mL
Spiked Amount	0.200	Range	41 - 145	Recovery =	85.00%
21) s dcb #2			9.51	181182	0.174 µg/mL
Spiked Amount	0.200	Range	39 - 137	Recovery =	87.00%
Target Compounds					
2) m,t AROCHLOR 1016(1)			4.11f	63210	1.532 µg/mL
3) m,t AROCHLOR 1016(2)			0.00	0	N.D. µg/mL
4) m,t AROCHLOR 1016(3)			0.00	0	N.D. µg/mL
5) m,t AROCHLOR 1016(4)			0.00	0	N.D. µg/mL
6) m,t AROCHLOR 1260(1)			6.45	101523	4.070 µg/mL
7) m,t AROCHLOR 1260(2)			6.74	93283	1.084 µg/mL
8) m,t AROCHLOR 1260(3)			7.29	158781	1.295 µg/mL
9) m,t AROCHLOR 1260(4)			7.93	22278	0.172 µg/mL
13) m,t AROCHLOR 1016(1) #2			0.00	0	N.D. µg/mL
14) m,t AROCHLOR 1016(2) #2			0.00	0	N.D. µg/mL
15) m,t AROCHLOR 1016(3) #2			0.00	0	N.D. µg/mL
16) m,t AROCHLOR 1016(4) #2			0.00	0	N.D. µg/mL
17) m,t AROCHLOR 1260(1) #2			6.58	69458	9.001 µg/mL
18) m,t AROCHLOR 1260(2) #2			6.88	74393	0.823 µg/mL
19) m,t AROCHLOR 1260(3) #2			7.43	147065	1.114 µg/mL
20) m,t AROCHLOR 1260(4) #2			8.04	25741	0.197 µg/mL

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(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : D:\DATA\SVGC#5\082302\0823_47.D\ECD1A.CH Vial: 3
Acq On : 24 Aug 2002 5:19 pm Operator: 308
Sample : L87214-05 10x WG81519 30-10 H Inst : SVGC5
Misc : Multiplr: 10.00
IntFile : events.e

Data File : D:\DATA\SVGC#5\082302\0823_47.D\ECD2B.CH Vial: 3
Acq On : 24 Aug 2002 5:19 pm Operator: 308
Sample : L87214-05 10x WG81519 30-10 H Inst : SVGC5
Misc : Multiplr: 10.00
IntFile : events2.e
Quant Time: Aug 24 17:30 2002 Quant Results File: PCB7.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB7.M (Chemstation Integrator)
Title :
Last Update : Fri Aug 23 17:36:41 2002
Response via : Initial Calibration
DataAcq Meth : PCB7.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc Units

(f)=RT Delta > 1/2 Window (m)=manual int.
0823_47.D envdef.m Wed Sep 11 16:38:00 2002 Page 2

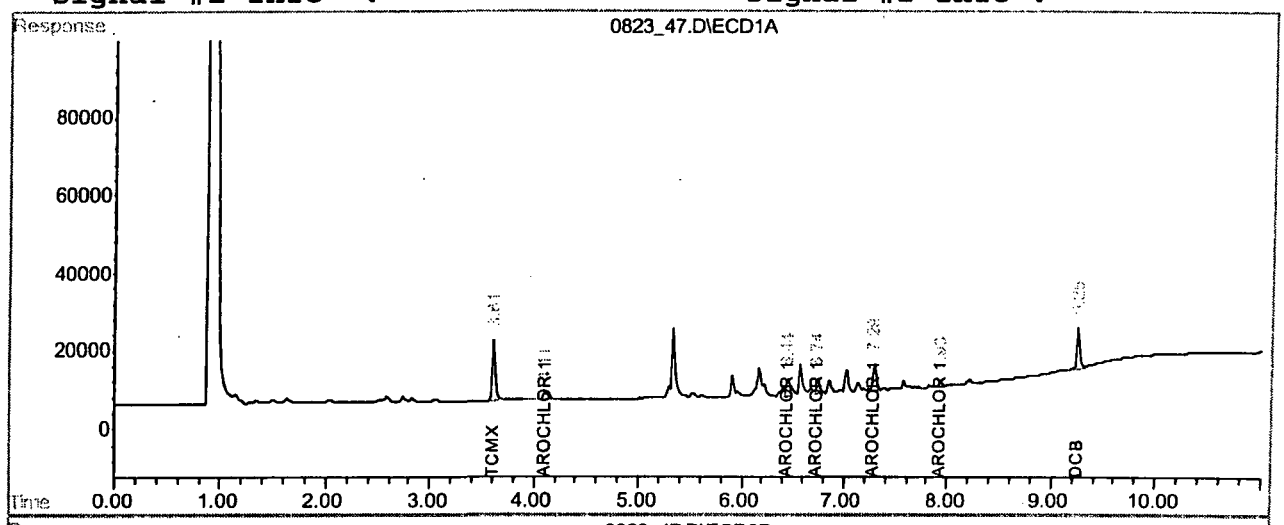
Quantitation Report (QT Reviewed)

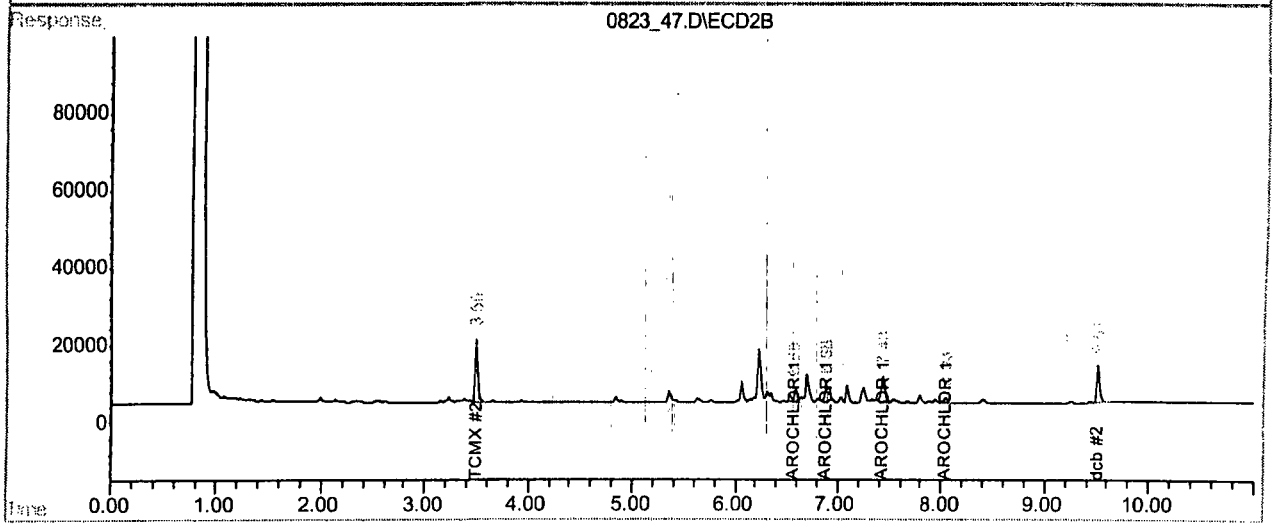
Data File : D:\DATA\SVGC#5\082302\0823_47.D\ECD1A.CH Vial: 3
Acq On : 24 Aug 2002 5:19 pm Operator: 308
Sample : L87214-05 10x WG81519 30-10 H Inst : SVGC5
Misc : Multiplr: 10.00
IntFile : events.e

Data File : D:\DATA\SVGC#5\082302\0823_47.D\ECD2B.CH Vial: 3
Acq On : 24 Aug 2002 5:19 pm Operator: 308
Sample : L87214-05 10x WG81519 30-10 H Inst : SVGC5
Misc : Multiplr: 10.00
IntFile : events2.e
Quant Time: Aug 24 17:30 2002 Quant Results File: PCB7.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB7.M (Chemstation Integrator)
Title :
Last Update : Fri Aug 23 17:36:41 2002
Response via : Multiple Level Calibration
DataAcq Meth : PCB7.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Data File : D:\DATA\SVGC#5\082302\0823_47.D\ECD1A.CH Vial: 3
Acq On : 24 Aug 2002 5:19 pm Operator: 308
Sample : L87214-05 10x WG81519 30-10 H Inst : SVGC5
Misc : Multiplr: 10.00
IntFile : events.e

Data File : D:\DATA\SVGC#5\082302\0823_47.D\ECD2B.CH Vial: 3
Acq On : 24 Aug 2002 5:19 pm Operator: 308
Sample : L87214-05 10x WG81519 30-10 H Inst : SVGC5
Misc : Multiplr: 10.00
IntFile : events2.e
Quant Time: Aug 25 13:23 2002 Quant Results File: 1254M.RES

Quant Method : C:\HPCHEM\1\METHODS\1254M.M (Chemstation Integrator)
Title :
Last Update : Sun Aug 25 13:22:17 2002
Response via : Initial Calibration
DataAcq Meth : PCB7.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) s TCMX	3.61	299221	0.026 µg/mL
Spiked Amount 0.200	Range 41 - 145	Recovery =	13.00%#
6) s DCB	9.25	218323	0.076 µg/mL
Spiked Amount 0.200	Range 39 - 137	Recovery =	38.00%#
8) s TCMX #2	3.50	251917	0.059 µg/mL
Spiked Amount 0.200	Range 41 - 145	Recovery =	29.50%#
13) s dcb #2	9.51	181182	0.055 µg/mL
Spiked Amount 0.200	Range 39 - 137	Recovery =	27.50%#
Target Compounds			
2) m,t AROCHLOR 1254(1)	5.29	45571	0.738 µg/mL
3) m,t AROCHLOR 1254(2)	5.52	22527	0.780 µg/mL
4) m,t AROCHLOR 1254(3)	6.57	185642	1.707 µg/mL
5) m,t AROCHLOR 1254(4)	7.02	136266	1.844 µg/mL
9) m,t AROCHLOR 1254(1) #2	5.63	21239	0.827 µg/mL
10) m,t AROCHLOR 1254(2) #2	5.76	8024	0.809 µg/mLm
11) m,t AROCHLOR 1254(3) #2	6.69	165513	1.549 µg/mL
12) m,t AROCHLOR 1254(4) #2	7.08	83915	1.780 µg/mL

(f)=RT Delta > 1/2 Window (m)=manual int.
0823_47.D envdef.m Wed Sep 11 16:38:16 2002 Page 1

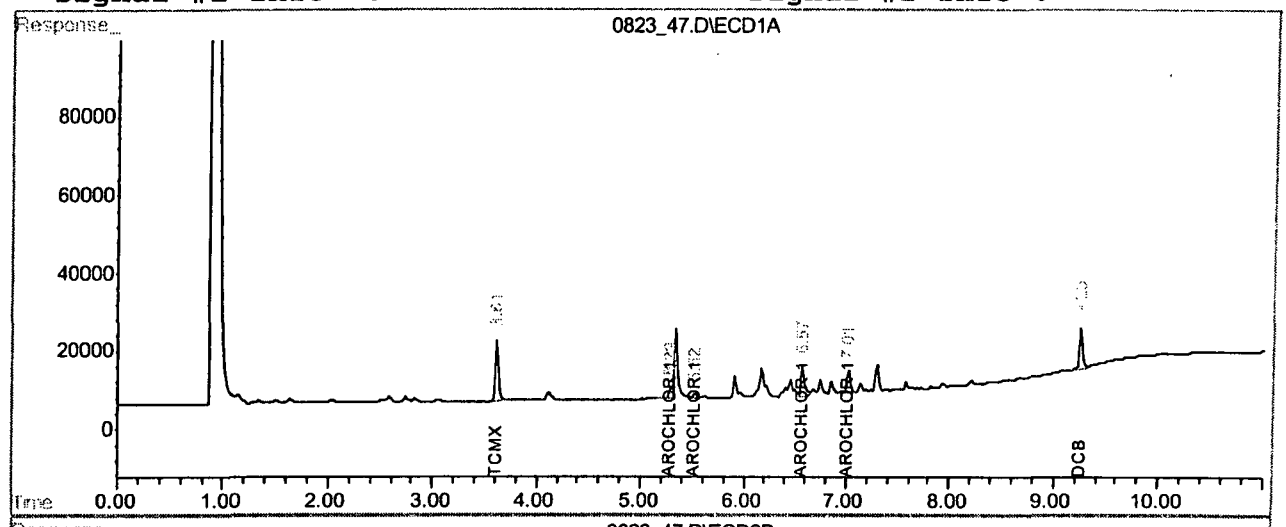
Quantitation Report (QT Reviewed)

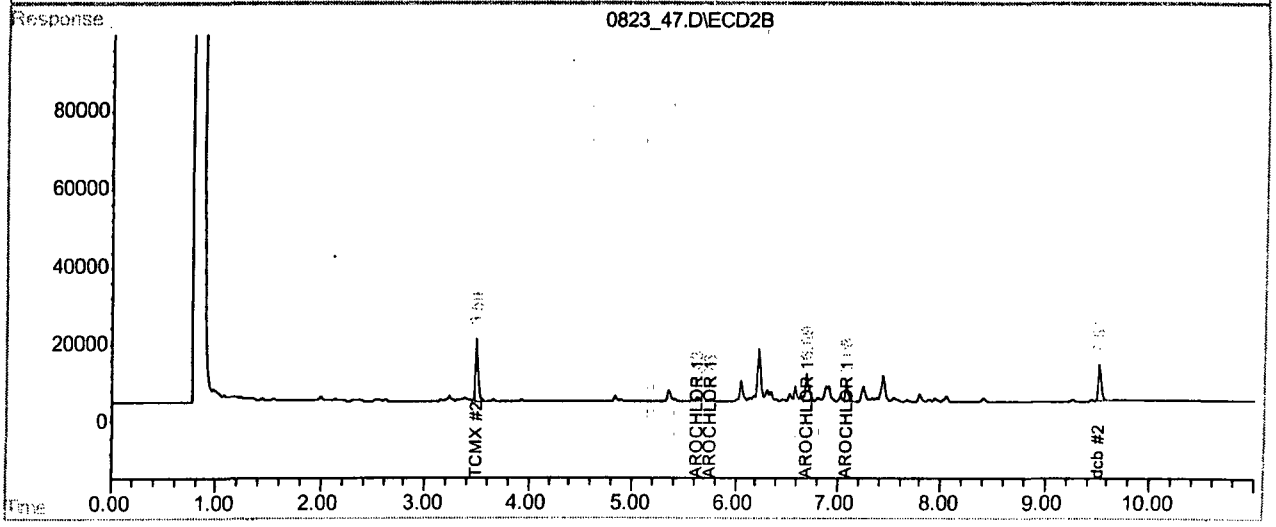
Data File : D:\DATA\SVGC#5\082302\0823_47.D\ECD1A.CH Vial: 3
Acq On : 24 Aug 2002 5:19 pm Operator: 308
Sample : L87214-05 10x WG81519 30-10 H Inst : SVGC5
Misc : Multiplr: 10.00
IntFile : events.e

Data File : D:\DATA\SVGC#5\082302\0823_47.D\ECD2B.CH Vial: 3
Acq On : 24 Aug 2002 5:19 pm Operator: 308
Sample : L87214-05 10x WG81519 30-10 H Inst : SVGC5
Misc : Multiplr: 10.00
IntFile : events2.e
Quant Time: Aug 25 13:23 2002 Quant Results File: 1254M.RES

Quant Method : C:\HPCHEM\1\METHODS\1254M.M (Chemstation Integrator)
Title :
Last Update : Sun Aug 25 13:22:17 2002
Response via : Multiple Level Calibration
DataAcq Meth : PCB7.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





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Quantitation Report (QT Reviewed)

Signal #1 : D:\DATA\SVGC#5\082302\0823_48.D\ECD1A.CH Vial: 4
Signal #2 : D:\DATA\SVGC#5\082302\0823_48.D\ECD2B.CH
Acq On : 24 Aug 2002 5:33 pm Operator: 308
Sample : LCS 1x WG81519 30-10 Inst : SVGC5
Misc : spk ESC7719 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Aug 25 13:23 2002 Quant Results File: PCB7.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB7.M (Chemstation Integrator)
Title :
Last Update : Fri Aug 23 17:36:41 2002
Response via : Initial Calibration
DataAcq Meth : PCB7.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) s TCMX	3.60	2210991	0.131 µg/mL
Spiked Amount 0.200 Range 41 - 145		Recovery =	65.50%
10) s DCB	9.25	1817061	0.174 µg/mL
Spiked Amount 0.200 Range 39 - 137		Recovery =	87.00%
12) s TCMX #2	3.49	1999725	0.135 µg/mL
Spiked Amount 0.200 Range 41 - 145		Recovery =	67.50%
21) s dcb #2	9.51	1408476	0.135 µg/mL
Spiked Amount 0.200 Range 39 - 137		Recovery =	67.50%
Target Compounds			
2) m,t AROCHLOR 1016(1)	3.99	26855	0.065 µg/mL
3) m,t AROCHLOR 1016(2)	4.37f	12924	0.016 µg/mL
4) m,t AROCHLOR 1016(3)	0.00	0	N.D. µg/mL
5) m,t AROCHLOR 1016(4)	0.00	0	N.D. µg/mL
6) m,t AROCHLOR 1260(1)	6.44	100156	0.401 µg/mL
7) m,t AROCHLOR 1260(2)	6.74	350379	0.407 µg/mL
8) m,t AROCHLOR 1260(3)	7.29	492035	0.401 µg/mL
9) m,t AROCHLOR 1260(4)	7.93	651554	0.504 µg/mL
13) m,t AROCHLOR 1016(1) #2	0.00	0	N.D. µg/mL
14) m,t AROCHLOR 1016(2) #2	0.00	0	N.D. µg/mL
15) m,t AROCHLOR 1016(3) #2	0.00	0	N.D. µg/mL
16) m,t AROCHLOR 1016(4) #2	0.00	0	N.D. µg/mL
17) m,t AROCHLOR 1260(1) #2	6.58	22115	0.287 µg/mL
18) m,t AROCHLOR 1260(2) #2	6.88	333285	0.369 µg/mL
19) m,t AROCHLOR 1260(3) #2	7.43	465450	0.352 µg/mL
20) m,t AROCHLOR 1260(4) #2	8.03	565999	0.433 µg/mL

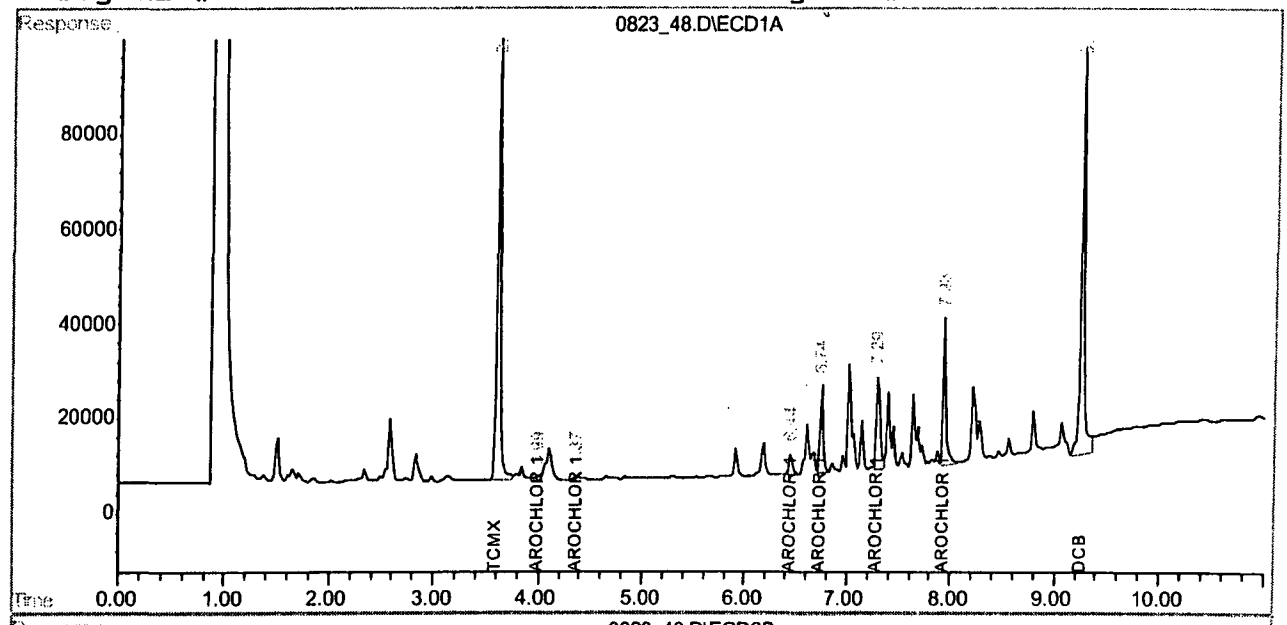
(f)=RT Delta > 1/2 Window (m)=manual int.

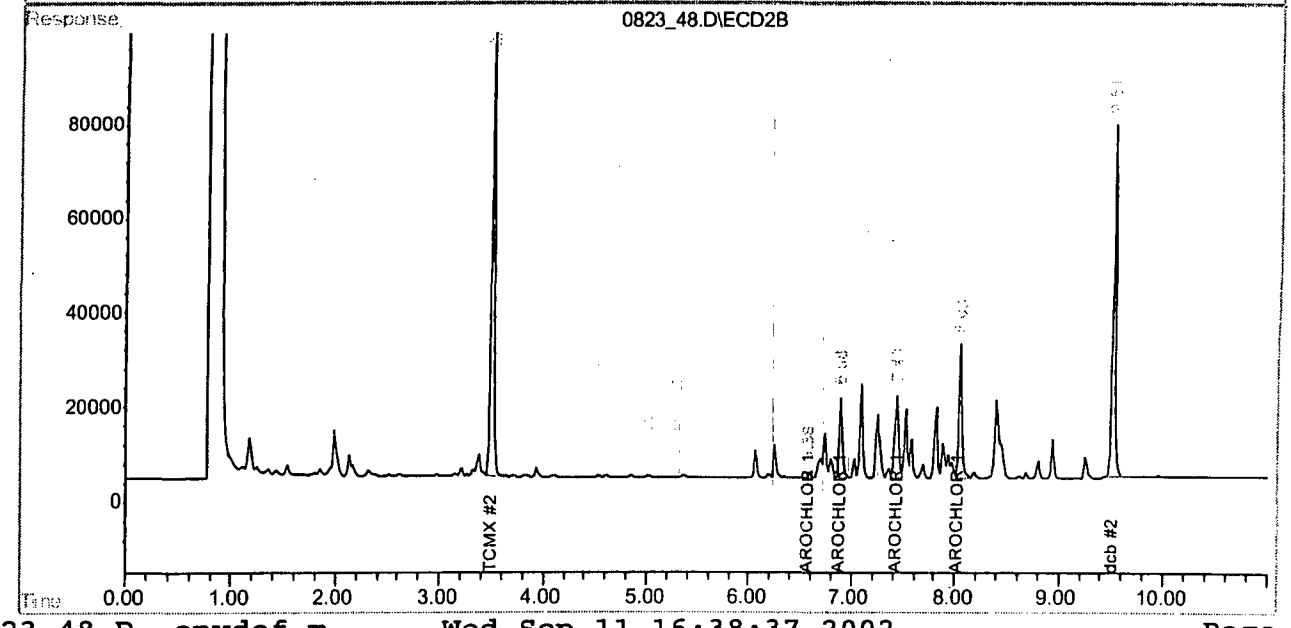
Quantitation Report (QT Reviewed)

Signal #1 : D:\DATA\SVGC#5\082302\0823_48.D\ECD1A.CH Vial: 4
Signal #2 : D:\DATA\SVGC#5\082302\0823_48.D\ECD2B.CH
Acq On : 24 Aug 2002 5:33 pm Operator: 308
Sample : LCS 1x WG81519 30-10 Inst : SVGC5
Misc : spk ESC7719 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Aug 25 13:23 2002 Quant Results File: PCB7.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB7.M (Chemstation Integrator)
Title :
Last Update : Fri Aug 23 17:36:41 2002
Response via : Multiple Level Calibration
DataAcq Meth : PCB7.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Signal #1 : D:\DATA\SVGC#5\082302\0823_49.D\ECD1A.CH Vial: 5
Signal #2 : D:\DATA\SVGC#5\082302\0823_49.D\ECD2B.CH
Acq On : 24 Aug 2002 5:48 pm Operator: 308
Sample : LCSD 1x WG81519 30-10 Inst : SVGC5
Misc : spk ESC7719 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Aug 25 13:23 2002 Quant Results File: PCB7.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB7.M (Chemstation Integrator)
Title :
Last Update : Fri Aug 23 17:36:41 2002
Response via : Initial Calibration
DataAcq Meth : PCB7.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) s TCMX	3.60	2246281	0.133 µg/mL
Spiked Amount 0.200 Range 41 - 145		Recovery =	66.50%
10) s DCB	9.25	1708792	0.164 µg/mL
Spiked Amount 0.200 Range 39 - 137		Recovery =	82.00%
12) s TCMX #2	3.49	2022968	0.137 µg/mL
Spiked Amount 0.200 Range 41 - 145		Recovery =	68.50%
21) s dcb #2	9.51	1438308	0.138 µg/mL
Spiked Amount 0.200 Range 39 - 137		Recovery =	69.00%
Target Compounds			
2) m,t AROCHLOR 1016(1)	3.99	12381	0.030 µg/mL
3) m,t AROCHLOR 1016(2)	4.37f	11231	0.014 µg/mL
4) m,t AROCHLOR 1016(3)	0.00	0	N.D. µg/mL
5) m,t AROCHLOR 1016(4)	0.00	0	N.D. µg/mL
6) m,t AROCHLOR 1260(1)	6.44	108443	0.435 µg/mL
7) m,t AROCHLOR 1260(2)	6.74	381085	0.443 µg/mL
8) m,t AROCHLOR 1260(3)	7.29	536175	0.437 µg/mL
9) m,t AROCHLOR 1260(4)	7.93	673365	0.521 µg/mL
13) m,t AROCHLOR 1016(1) #2	0.00	0	N.D. µg/mL
14) m,t AROCHLOR 1016(2) #2	0.00	0	N.D. µg/mL
15) m,t AROCHLOR 1016(3) #2	0.00	0	N.D. µg/mL
16) m,t AROCHLOR 1016(4) #2	0.00	0	N.D. µg/mL
17) m,t AROCHLOR 1260(1) #2	6.58	23626	0.306 µg/mL
18) m,t AROCHLOR 1260(2) #2	6.88	355894	0.394 µg/mL
19) m,t AROCHLOR 1260(3) #2	7.43	494200	0.374 µg/mL
20) m,t AROCHLOR 1260(4) #2	8.03	601844	0.460 µg/mL

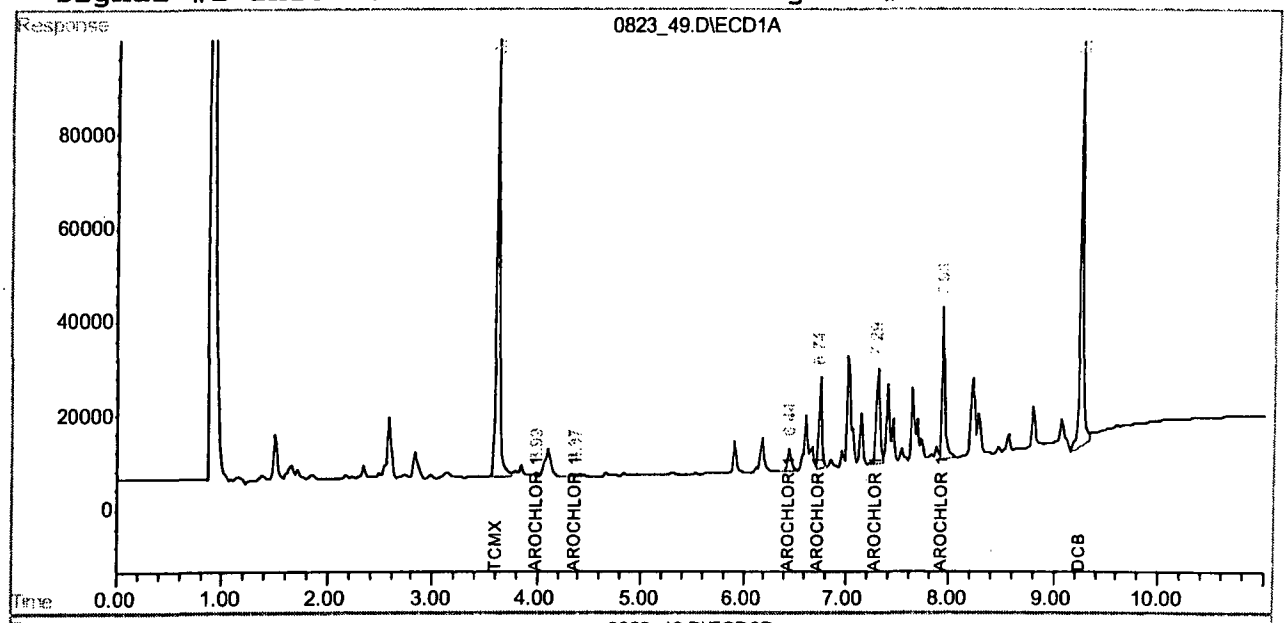
(f)=RT Delta > 1/2 Window (m)=manual int.

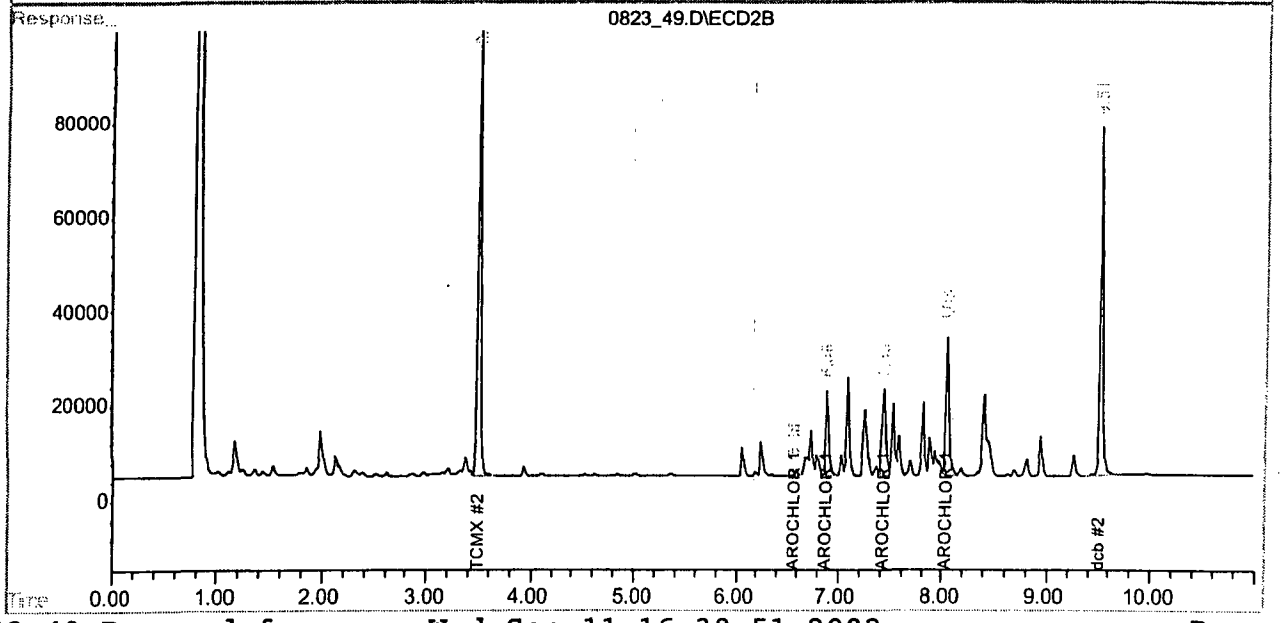
Quantitation Report (QT Reviewed)

Signal #1 : D:\DATA\SVGC#5\082302\0823_49.D\ECD1A.CH Vial: 5
Signal #2 : D:\DATA\SVGC#5\082302\0823_49.D\ECD2B.CH
Acq On : 24 Aug 2002 5:48 pm Operator: 308
Sample : LCSD 1x WG81519 30-10 Inst : SVGC5
Misc : spk ESC7719 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Aug 25 13:23 2002 Quant Results File: PCB7.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB7.M (Chemstation Integrator)
Title :
Last Update : Fri Aug 23 17:36:41 2002
Response via : Multiple Level Calibration
DataAcq Meth : PCB7.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





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Quantitation Report (QT Reviewed)

Signal #1 : D:\DATA\SVGC#5\082302\0823_50.D\ECD1A.CH Vial: 10
Signal #2 : D:\DATA\SVGC#5\082302\0823_50.D\ECD2B.CH
Acq On : 24 Aug 2002 6:03 pm Operator: 308
Sample : 1016/1260 .50ppm Inst : SVGC5
Misc : bx030104k30 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Aug 25 13:24 2002 Quant Results File: PCB7.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB7.M (Chemstation Integrator)
Title :
Last Update : Fri Aug 23 17:36:41 2002
Response via : Initial Calibration
DataAcq Meth : PCB7.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound				R.T.	Response		Conc Units
System Monitoring Compounds							
1) s TCMX				3.60	1672049		0.099 µg/mL
Spiked Amount	0.200	Range	41 - 145		Recovery	=	49.50%
10) s DCB				9.25	1124395		0.108 µg/mL
Spiked Amount	0.200	Range	39 - 137		Recovery	=	54.00%
12) s TCMX #2				3.49	1457272		0.099 µg/mL
Spiked Amount	0.200	Range	41 - 145		Recovery	=	49.50%
21) s dcb #2				9.51	964463		0.093 µg/mL
Spiked Amount	0.200	Range	39 - 137		Recovery	=	46.50%
Target Compounds							
2) m,t AROCHLOR 1016(1)				4.04	229409		0.556 µg/mL
3) m,t AROCHLOR 1016(2)				4.44	419304		0.527 µg/mL
4) m,t AROCHLOR 1016(3)				5.10	341943		0.536 µg/mL
5) m,t AROCHLOR 1016(4)				5.17	227005		0.558 µg/mL
6) m,t AROCHLOR 1260(1)				6.44	144608		0.580 µg/mL
7) m,t AROCHLOR 1260(2)				6.74	452253		0.526 µg/mL
8) m,t AROCHLOR 1260(3)				7.29	659573		0.538 µg/mL
9) m,t AROCHLOR 1260(4)				7.93	700775		0.542 µg/mL
13) m,t AROCHLOR 1016(1) #2				4.07	174427		0.495 µg/mL
14) m,t AROCHLOR 1016(2) #2				4.52	388627		0.492 µg/mL
15) m,t AROCHLOR 1016(3) #2				5.01	653948		0.492 µg/mL
16) m,t AROCHLOR 1016(4) #2				5.15	290806		0.499 µg/mL
17) m,t AROCHLOR 1260(1) #2				6.58	38562		0.500 µg/mL
18) m,t AROCHLOR 1260(2) #2				6.88	436284		0.483 µg/mL
19) m,t AROCHLOR 1260(3) #2				7.43	632880		0.479 µg/mL
20) m,t AROCHLOR 1260(4) #2				8.03	632609		0.484 µg/mL

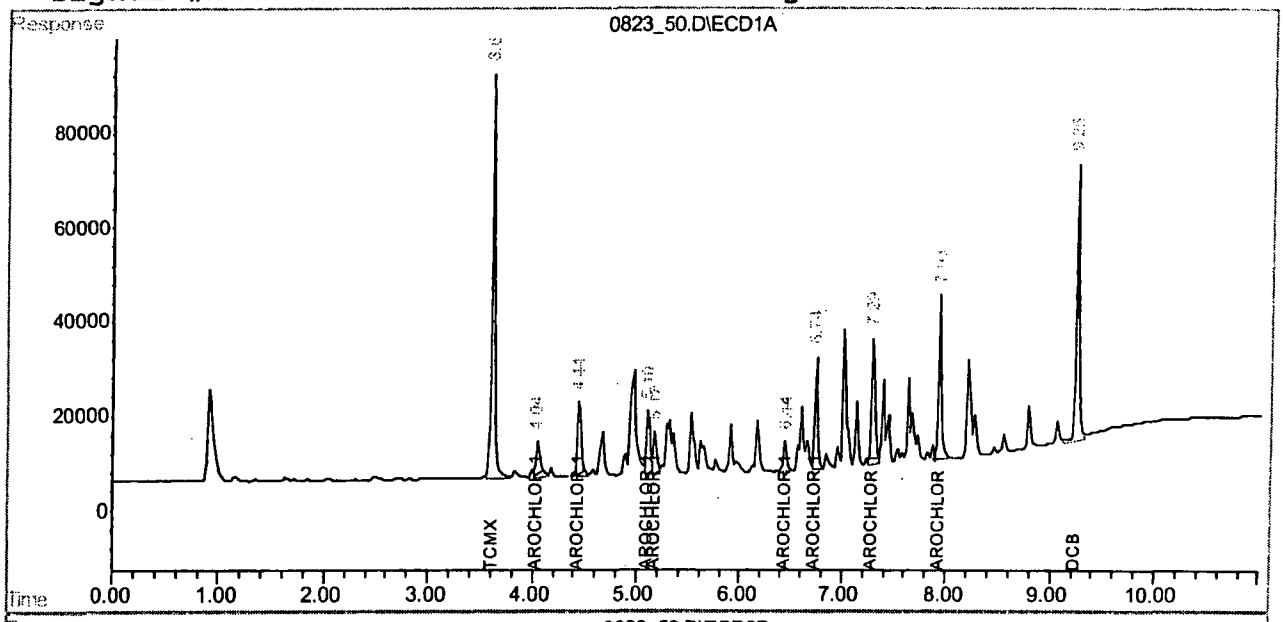
(f)=RT Delta > 1/2 Window (m)=manual int.
0823_50.D envdef.m Wed Sep 11 16:39:03 2002 Page 1

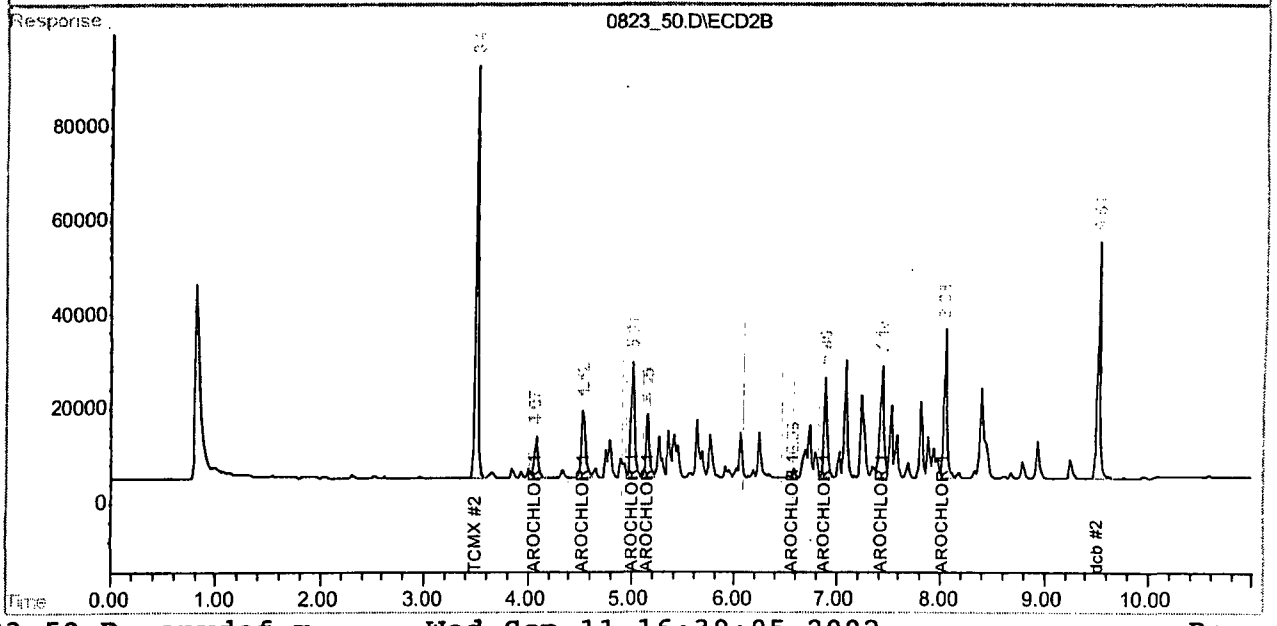
Quantitation Report (QT Reviewed)

Signal #1 : D:\DATA\SVGC#5\082302\0823_50.D\ECD1A.CH Vial: 10
Signal #2 : D:\DATA\SVGC#5\082302\0823_50.D\ECD2B.CH
Acq On : 24 Aug 2002 6:03 pm Operator: 308
Sample : 1016/1260 .50ppm Inst : SVGC5
Misc : bx030104k30 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Aug 25 13:24 2002 Quant Results File: PCB7.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB7.M (Chemstation Integrator)
Title :
Last Update : Fri Aug 23 17:36:41 2002
Response via : Multiple Level Calibration
DataAcq Meth : PCB7.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





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Response Factor Report SVGC5

Method : C:\HPCHEM\1\METHODS\PCB7.M (Chemstation Integrator)
Title :
Last Update : Fri Aug 23 17:36:41 2002

8/22/02 JK

Calibration Files
1 =0823_12.D 2 =0823_13.D 3 =0823_14.D
4 =0823_15.D 5 =0823_16.D 6 =0823_17.D

		Compound	1	2	3	4	5	6	Avg		%RSD
1)	s	TCMX	2.112	1.746	1.730	1.669	1.458	1.386	1.683	E7	15.24
2)	m,t	AROCHLOR 1016(1)	4.161	3.722	4.346	4.535	4.053	3.946	4.127	E5	7.00
3)	m,t	AROCHLOR 1016(2)	8.800	8.162	8.279	8.257	7.221	7.008	7.955	E5	8.69
4)	m,t	AROCHLOR 1016(3)	6.943	6.584	6.623	6.633	5.881	5.642	6.384	E5	7.91
5)	m,t	AROCHLOR 1016(4)	4.147	4.037	4.229	4.341	3.879	3.776	4.068	E5	5.26
6)	m,t	AROCHLOR 1260(1)	2.313	2.526	2.563	2.694	2.458	2.413	2.495	E5	5.27
7)	m,t	AROCHLOR 1260(2)	9.955	9.063	8.852	8.714	7.685	7.349	8.603	E5	11.07
8)	m,t	AROCHLOR 1260(3)	1.328	1.231	1.263	1.279	1.144	1.111	1.226	E6	6.79
9)	m,t	AROCHLOR 1260(4)	1.404	1.281	1.313	1.348	1.218	1.191	1.292	E6	6.17
10)	s	DCB	1.198	1.030	1.032	1.050	0.993	0.965	1.045	E7	7.76

Signal #2 Calibration Files
1 =0823_12.D 2 =0823_13.D 3 =0823_14.D
4 =0823_15.D 5 =0823_16.D 6 =0823_17.D

		Compound	1	2	3	4	5	6	Avg		%RSD
1)	s	TCMX	1.749	1.481	1.495	1.507	1.344	1.297	1.479	E7	10.71
2)	m,t	AROCHLOR 1016(1)	3.971	3.761	3.643	3.583	3.159	3.038	3.526	E5	10.17
3)	m,t	AROCHLOR 1016(2)	9.320	8.183	8.193	8.007	7.024	6.709	7.906	E5	11.84
4)	m,t	AROCHLOR 1016(3)	1.548	1.370	1.353	1.354	1.200	1.157	1.330	E6	10.49
5)	m,t	AROCHLOR 1016(4)	6.610	5.922	5.992	6.012	5.311	5.124	5.828	E5	9.22
6)	m,t	AROCHLOR 1260(1)	8.568	7.012	7.962	8.213	7.345	7.202	7.717	E4	8.05
7)	m,t	AROCHLOR 1260(2)	1.094	0.958	0.910	0.898	0.797	0.765	0.904	E6	13.09
8)	m,t	AROCHLOR 1260(3)	1.583	1.391	1.317	1.319	1.176	1.138	1.321	E6	12.11
9)	m,t	AROCHLOR 1260(4)	1.559	1.342	1.303	1.317	1.178	1.144	1.307	E6	11.24
10)	s	dcb	1.359	1.095	1.022	1.013	0.894	0.864	1.041	E7	17.09

98

(#) = Out of Range

Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\082302\0823_12.D\ECD1A.CH Vial: 12
Signal #2 : C:\HPCHEM\1\DATA\082302\0823_12.D\ECD2B.CH
Acq On : 23 Aug 2002 4:04 pm Operator: 308
Sample : 1016/1260 .05ppm Inst : SVGC5
Misc : bs030104k30 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Aug 23 16:42 2002 Quant Results File: PCB7.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB7.M (Chemstation Integrator)
Title :
Last Update : Fri Aug 23 15:59:59 2002
Response via : Initial Calibration
DataAcq Meth : PCB6.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) s TCMX	3.60	211180	0.004 µg/mL
Spiked Amount 0.200 Range 41 - 145		Recovery =	2.00%#
10) s DCB	9.24	119779	0.003 µg/mLm
Spiked Amount 0.200 Range 39 - 137		Recovery =	1.50%#
12) s TCMX #2	3.49	174902	0.004 µg/mL
Spiked Amount 0.200 Range 41 - 145		Recovery =	2.00%#
21) s dcb #2	9.50	135921	0.004 µg/mL
Spiked Amount 0.200 Range 39 - 137		Recovery =	2.00%#
Target Compounds			
2) m,t AROCHLOR 1016(1)	4.04	20807	0.015 µg/mL
3) m,t AROCHLOR 1016(2)	4.44	43999	0.019 µg/mL
4) m,t AROCHLOR 1016(3)	5.10	34714	0.018 µg/mL
5) m,t AROCHLOR 1016(4)	5.17	20737	0.016 µg/mL
6) m,t AROCHLOR 1260(1)	6.43	11564	0.013 µg/mLm
7) m,t AROCHLOR 1260(2)	6.73	49777	0.018 µg/mL
8) m,t AROCHLOR 1260(3)	7.28	66402	0.016 µg/mL
9) m,t AROCHLOR 1260(4)	7.92	70178	0.015 µg/mL
13) m,t AROCHLOR 1016(1) #2	4.07	19854	0.018 µg/mL
14) m,t AROCHLOR 1016(2) #2	4.52	46598	0.019 µg/mL
15) m,t AROCHLOR 1016(3) #2	5.00	77399	0.018 µg/mL
16) m,t AROCHLOR 1016(4) #2	5.14	33051	0.018 µg/mL
17) m,t AROCHLOR 1260(1) #2	6.57	4284	0.015 µg/mLm
18) m,t AROCHLOR 1260(2) #2	6.88	54711	0.018 µg/mL
19) m,t AROCHLOR 1260(3) #2	7.42	79141	0.017 µg/mL
20) m,t AROCHLOR 1260(4) #2	8.03	77940	0.016 µg/mL

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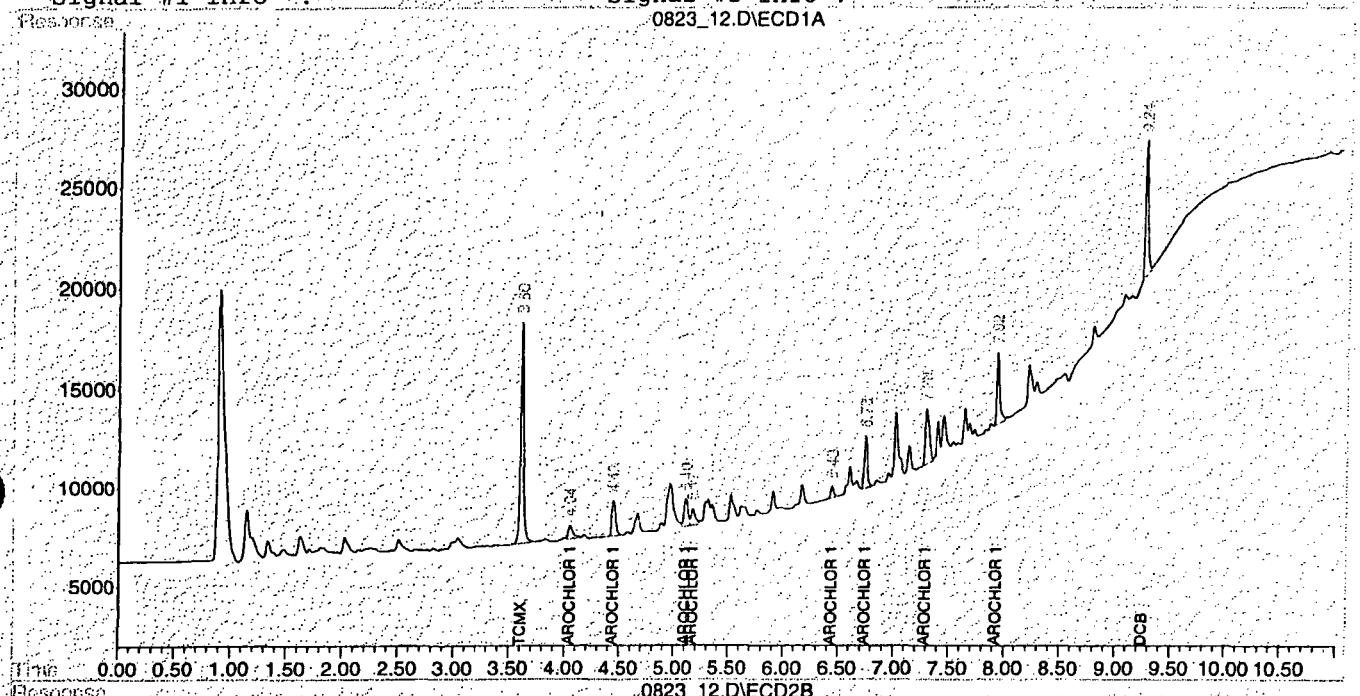
(f)=RT Delta > 1/2 Window (m)=manual int.

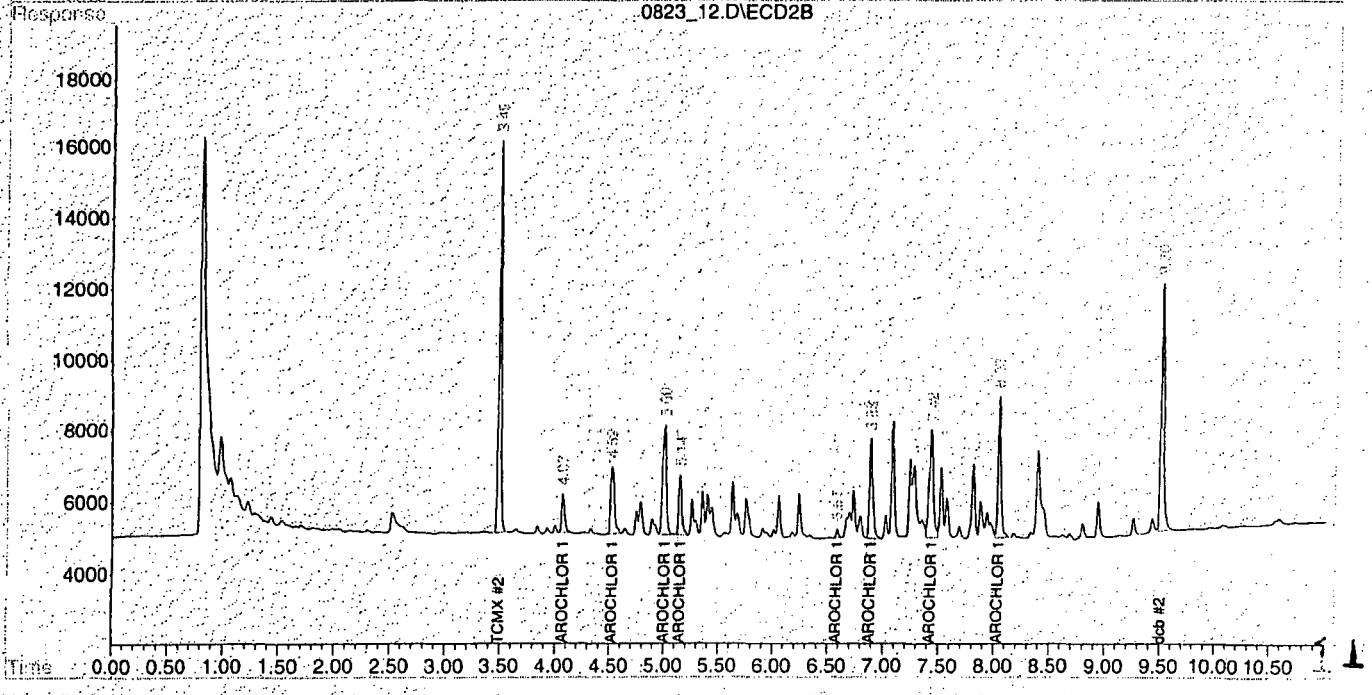
Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA\082302\0823_12.D\ECD1A.CH Vial: 12
Signal #2 : C:\HPCHEM\1\DATA\082302\0823_12.D\ECD2B.CH
Acq On : 23 Aug 2002 4:04 pm Operator: 308
Sample : 1016/1260 .05ppm Inst : SVGC5
Misc : bs030104k30 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Aug 23 16:42 2002 Quant Results File: PCB7.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB7.M (Chemstation Integrator)
Title :
Last Update : Fri Aug 23 15:59:59 2002
Response via : Multiple Level Calibration
DataAcq Meth : PCB6.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





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Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\082302\0823_13.D\ECD1A.CH Vial: 13
Signal #2 : C:\HPCHEM\1\DATA\082302\0823_13.D\ECD2B.CH
Acq On : 23 Aug 2002 4:19 pm Operator: 308
Sample : 1016/1260 .10ppm Inst : SVGC5
Misc : bs030104k30 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Aug 23 16:42 2002 Quant Results File: PCB7.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB7.M (Chemstation Integrator)
Title :
Last Update : Fri Aug 23 16:42:13 2002
Response via : Initial Calibration
DataAcq Meth : PCB6.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) s TCMX	3.60	349119	0.008 µg/mL
Spiked Amount 0.200	Range 41 - 145	Recovery =	4.00%#
10) s DCB	9.24	206051	0.006 µg/mLm
Spiked Amount 0.200	Range 39 - 137	Recovery =	3.00%#
12) s TCMX #2	3.49	296130	0.007 µg/mL
Spiked Amount 0.200	Range 41 - 145	Recovery =	3.50%#
21) s dcb #2	9.50	219046	0.007 µg/mL
Spiked Amount 0.200	Range 39 - 137	Recovery =	3.50%#
Target Compounds			
2) m,t AROCHLOR 1016(1)	4.04	37223	0.034 µg/mL
3) m,t AROCHLOR 1016(2)	4.43	81624	0.040 µg/mLm
4) m,t AROCHLOR 1016(3)	5.10	65842	0.040 µg/mL
5) m,t AROCHLOR 1016(4)	5.16	40365	0.037 µg/mL
6) m,t AROCHLOR 1260(1)	6.43	25262	0.034 µg/mLm
7) m,t AROCHLOR 1260(2)	6.73	90630	0.039 µg/mL
8) m,t AROCHLOR 1260(3)	7.28	123121	0.034 µg/mL
9) m,t AROCHLOR 1260(4)	7.92	128064	0.032 µg/mL
13) m,t AROCHLOR 1016(1) #2	4.07	37613	0.041 µg/mL
14) m,t AROCHLOR 1016(2) #2	4.52	81827	0.040 µg/mL
15) m,t AROCHLOR 1016(3) #2	5.00	137008	0.038 µg/mL
16) m,t AROCHLOR 1016(4) #2	5.14	59219	0.037 µg/mL
17) m,t AROCHLOR 1260(1) #2	6.57	7012	0.029 µg/mL
18) m,t AROCHLOR 1260(2) #2	6.87	95848	0.037 µg/mL
19) m,t AROCHLOR 1260(3) #2	7.42	139142	0.035 µg/mL
20) m,t AROCHLOR 1260(4) #2	8.03	134238	0.033 µg/mL

1102

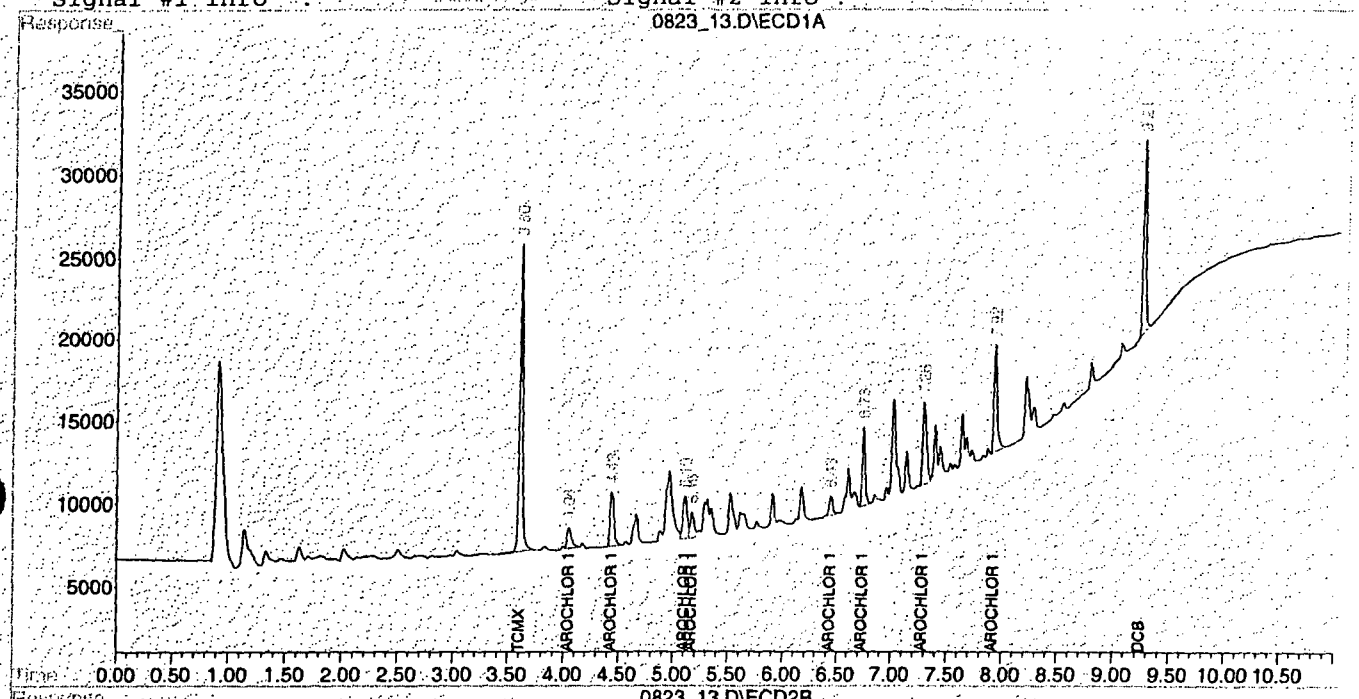
(f)=RT Delta > 1/2 Window (m)=manual int.

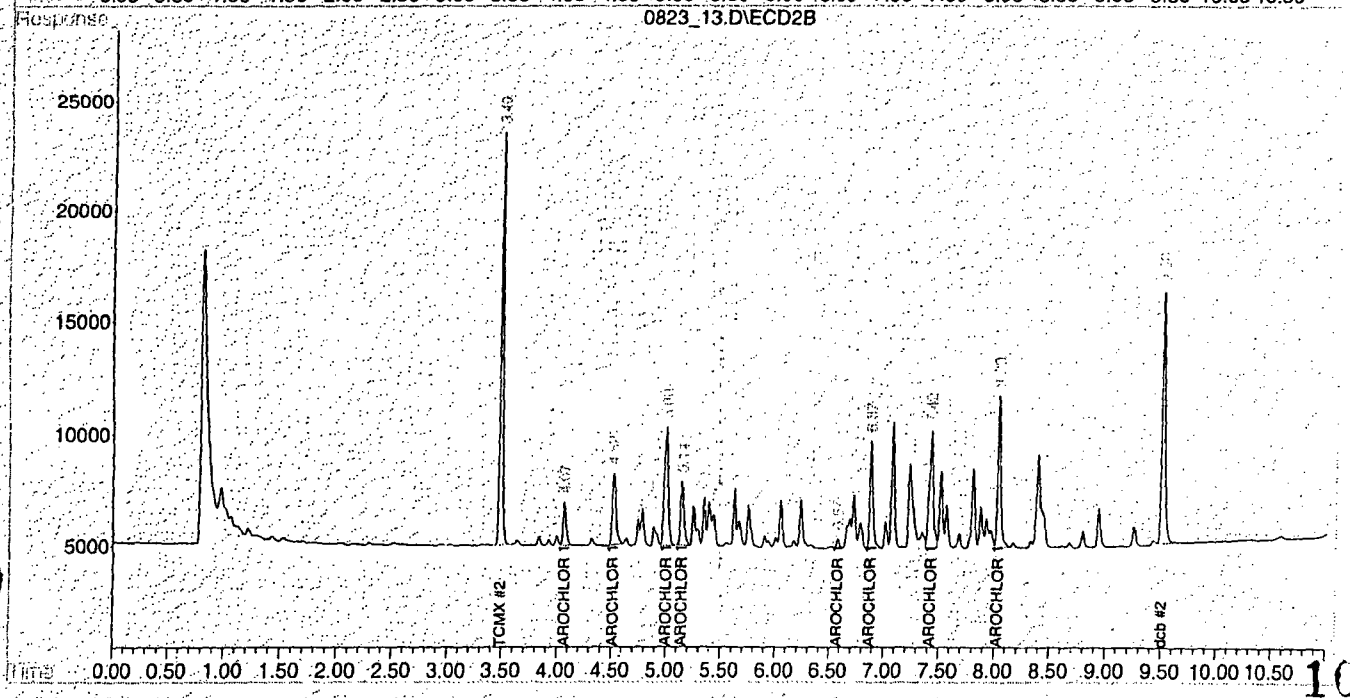
Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA\082302\0823_13.D\ECD1A.CH Vial: 13
Signal #2 : C:\HPCHEM\1\DATA\082302\0823_13.D\ECD2B.CH
Acq On : 23 Aug 2002 4:19 pm Operator: 308
Sample : 1016/1260 .10ppm Inst : SVGC5
Misc : bs030104k30 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Aug 23 16:42 2002 Quant Results File: PCB7.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB7.M (Chemstation Integrator)
Title :
Last Update : Fri Aug 23 16:42:13 2002
Response via : Multiple Level Calibration
DataAcq Meth : PCB6.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





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Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\082302\0823_14.D\ECD1A.CH Vial: 14
Signal #2 : C:\HPCHEM\1\DATA\082302\0823_14.D\ECD2B.CH
Acq On : 23 Aug 2002 4:34 pm Operator: 308
Sample : 1016/1260 .25ppm Inst : SVGC5
Misc : bs030104k30 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Aug 23 16:45 2002 Quant Results File: PCB7.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB7.M (Chemstation Integrator)
Title :
Last Update : Fri Aug 23 16:42:48 2002
Response via : Initial Calibration
DataAcq Meth : PCB6.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) s TCMX	3.60	864909	0.025 µg/mL
Spiked Amount 0.200	Range 41 - 145	Recovery =	12.50%#
10) s DCB	9.24	515906	0.019 µg/mLm
Spiked Amount 0.200	Range 39 - 137	Recovery =	9.50%#
12) s TCMX #2	3.49	747275	0.023 µg/mL
Spiked Amount 0.200	Range 41 - 145	Recovery =	11.50%#
21) s dcb #2	9.50	511192	0.019 µg/mL
Spiked Amount 0.200	Range 39 - 137	Recovery =	9.50%#
Target Compounds			
2) m,t AROCHLOR 1016(1)	4.04	108639	0.122 µg/mL
3) m,t AROCHLOR 1016(2)	4.43	206981	0.124 µg/mL
4) m,t AROCHLOR 1016(3)	5.09	165572	0.121 µg/mL
5) m,t AROCHLOR 1016(4)	5.16	105713	0.117 µg/mL
6) m,t AROCHLOR 1260(1)	6.43	64082	0.105 µg/mL
7) m,t AROCHLOR 1260(2)	6.73	221305	0.116 µg/mL
8) m,t AROCHLOR 1260(3)	7.28	315628	0.107 µg/mL
9) m,t AROCHLOR 1260(4)	7.92	328165	0.101 µg/mL
13) m,t AROCHLOR 1016(1) #2	4.07	91064	0.119 µg/mL
14) m,t AROCHLOR 1016(2) #2	4.52	204825	0.121 µg/mL
15) m,t AROCHLOR 1016(3) #2	5.00	338327	0.113 µg/mL
16) m,t AROCHLOR 1016(4) #2	5.14	149798	0.114 µg/mL
17) m,t AROCHLOR 1260(1) #2	6.57	19905	0.101 µg/mL
18) m,t AROCHLOR 1260(2) #2	6.87	227624	0.107 µg/mL
19) m,t AROCHLOR 1260(3) #2	7.42	329149	0.102 µg/mL
20) m,t AROCHLOR 1260(4) #2	8.03	325658	0.097 µg/mL

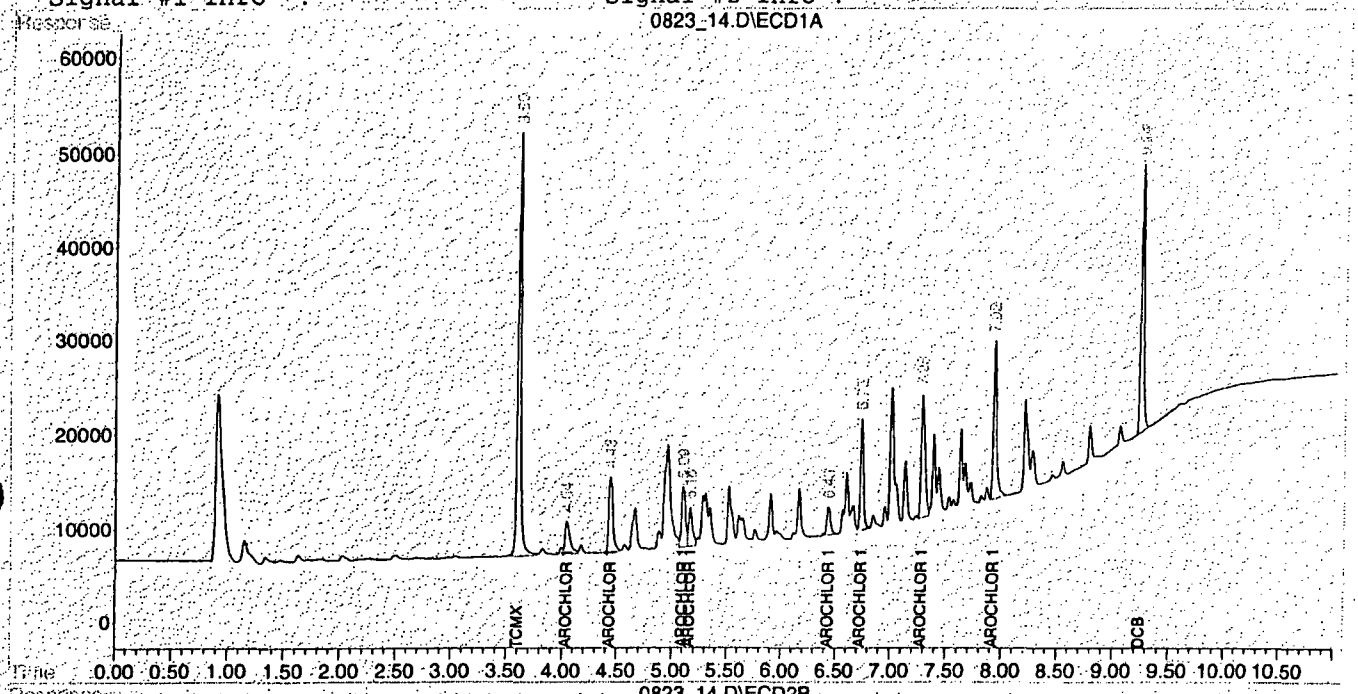
(f)=RT Delta > 1/2 Window (m)=manual int.
0823_14.D PCB7.M Fri Aug 23 17:37:16 2002

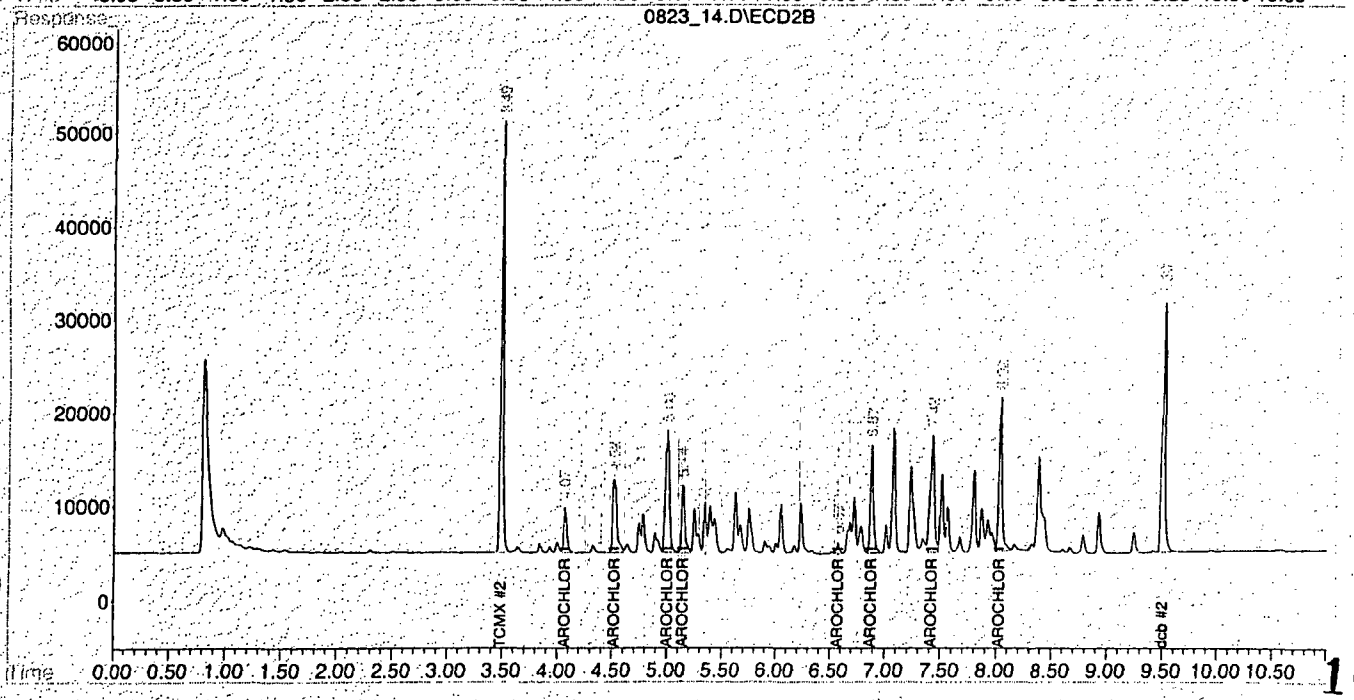
Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA\082302\0823_14.D\ECD1A.CH Vial: 14
Signal #2 : C:\HPCHEM\1\DATA\082302\0823_14.D\ECD2B.CH
Acq On : 23 Aug 2002 4:34 pm Operator: 308
Sample : 1016/1260 25ppm Inst : SVGC5
Misc : bs030104k30 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Aug 23 16:45 2002 Quant Results File: PCB7.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB7.M (Chemstation Integrator)
Title :
Last Update : Fri Aug 23 16:42:48 2002
Response via : Multiple Level Calibration
DataAcq Meth : PCB6.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





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Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\082302\0823_15.D\ECD1A.CH Vial: 10
Signal #2 : C:\HPCHEM\1\DATA\082302\0823_15.D\ECD2B.CH
Acq On : 23 Aug 2002 4:48 pm Operator: 308
Sample : 1016/1260 .50ppm Inst : SVGC5
Misc : Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Aug 23 17:08 2002 Quant Results File: PCB7.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB7.M (Chemstation Integrator)
Title :
Last Update : Fri Aug 23 16:46:01 2002
Response via : Initial Calibration
DataAcq Meth : PCB5.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) s TCMX	3.60	1669066	0.057 µg/mL
Spiked Amount 0.200	Range 41 - 145	Recovery =	28.50%#
10) s DCB	9.24	1050271	0.047 µg/mL
Spiked Amount 0.200	Range 39 - 137	Recovery =	23.50%#
12) s TCMX #2	3.49	1506625	0.054 µg/mL
Spiked Amount 0.200	Range 41 - 145	Recovery =	27.00%#
21) s dcb #2	9.50	1013393	0.046 µg/mL
Spiked Amount 0.200	Range 39 - 137	Recovery =	23.00%#
Target Compounds			
2) m,t AROCHLOR 1016(1)	4.03	226759	0.304 µg/mL
3) m,t AROCHLOR 1016(2)	4.43	412828	0.290 µg/mL
4) m,t AROCHLOR 1016(3)	5.09	331654	0.286 µg/mL
5) m,t AROCHLOR 1016(4)	5.16	217066	0.285 µg/mL
6) m,t AROCHLOR 1260(1)	6.43	134697	0.265 µg/mL
7) m,t AROCHLOR 1260(2)	6.73	435687	0.271 µg/mL
8) m,t AROCHLOR 1260(3)	7.28	639628	0.258 µg/mL
9) m,t AROCHLOR 1260(4)	7.92	674227	0.247 µg/mL
13) m,t AROCHLOR 1016(1) #2	4.07	179126	0.276 µg/mL
14) m,t AROCHLOR 1016(2) #2	4.52	400360	0.278 µg/mL
15) m,t AROCHLOR 1016(3) #2	5.00	677164	0.269 µg/mL
16) m,t AROCHLOR 1016(4) #2	5.14	300590	0.271 µg/mL
17) m,t AROCHLOR 1260(1) #2	6.57	41066	0.251 µg/mL
18) m,t AROCHLOR 1260(2) #2	6.87	449199	0.252 µg/mL
19) m,t AROCHLOR 1260(3) #2	7.42	659397	0.242 µg/mL
20) m,t AROCHLOR 1260(4) #2	8.03	658663	0.235 µg/mL

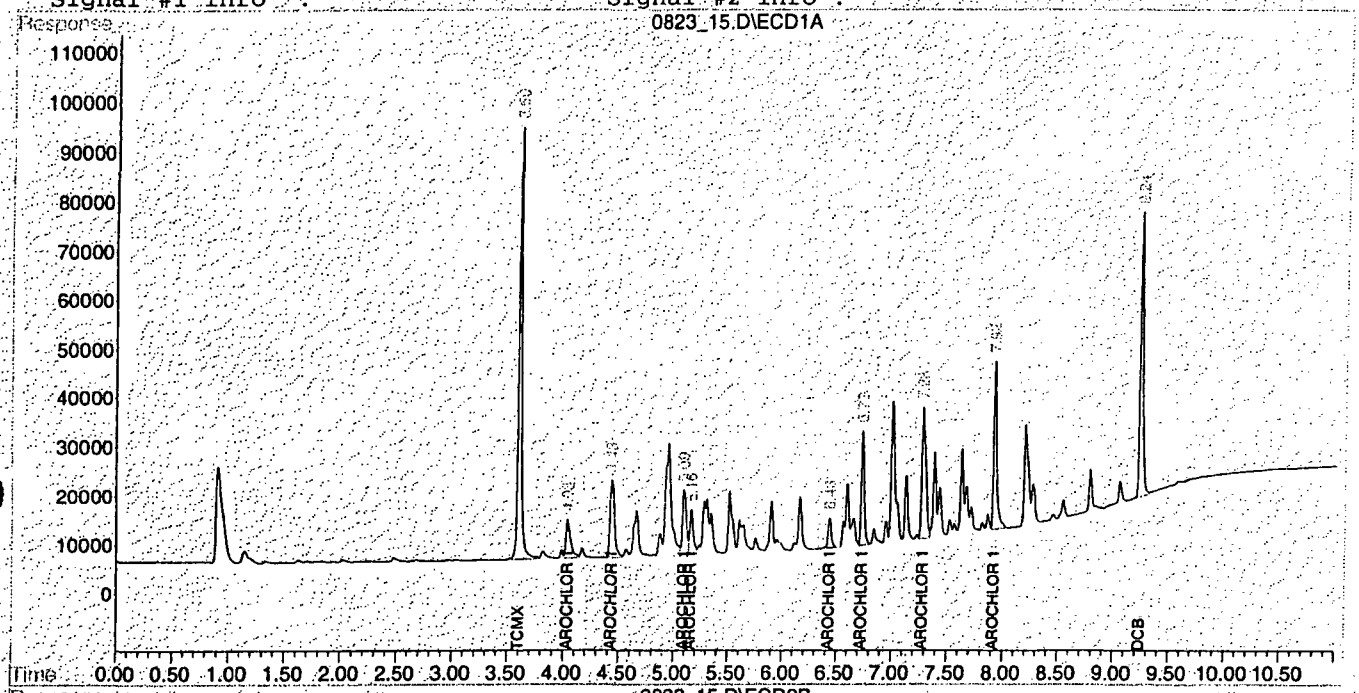
(f)=RT Delta > 1/2 Window (m)=manual int.

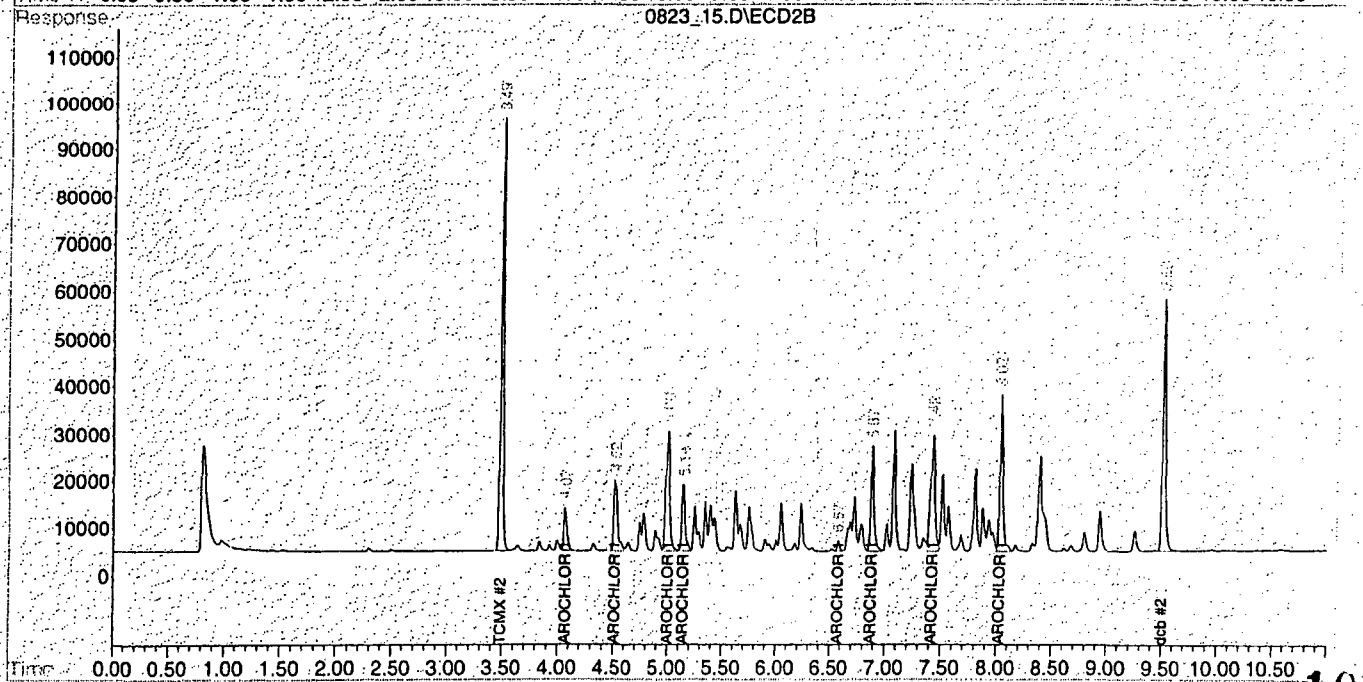
Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA\082302\0823_15.D\ECD1A.CH Vial: 10
Signal #2 : C:\HPCHEM\1\DATA\082302\0823_15.D\ECD2B.CH
Acq On : 23 Aug 2002 4:48 pm Operator: 308
Sample : 1016/1260 .50ppm Inst : SVGC5
Misc : Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Aug 23 17:08 2002 Quant Results File: PCB7.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB7.M (Chemstation Integrator)
Title :
Last Update : Fri Aug 23 16:46:01 2002
Response via : Multiple Level Calibration
DataAcq Meth : PCB5.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\082302\0823_16.D\ECD1A.CH Vial: 15
Signal #2 : C:\HPCHEM\1\DATA\082302\0823_16.D\ECD2B.CH
Acq On : 23 Aug 2002 5:03 pm Operator: 308
Sample : 1016/1260 .75ppm Inst : SVGC5
Misc : bs030104k30 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Aug 23 17:21 2002 Quant Results File: PCB7.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB7.M (Chemstation Integrator)
Title :
Last Update : Fri Aug 23 17:09:05 2002
Response via : Initial Calibration
DataAcq Meth : PCB6.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) s TCMX	3.59	2186438	0.090 µg/mL
Spiked Amount 0.200	Range 41 - 145	Recovery =	45.00%
10) s DCB	9.24	1489097	0.085 µg/mL
Spiked Amount 0.200	Range 39 - 137	Recovery =	42.50%
12) s TCMX #2	3.49	2015512	0.088 µg/mL
Spiked Amount 0.200	Range 41 - 145	Recovery =	44.00%
21) s dcb #2	9.50	1340503	0.075 µg/mL
Spiked Amount 0.200	Range 39 - 137	Recovery =	37.50%#
Target Compounds			
2) m,t AROCHLOR 1016(1)	4.03	303985	0.494 µg/mL
3) m,t AROCHLOR 1016(2)	4.43	541567	0.460 µg/mL
4) m,t AROCHLOR 1016(3)	5.09	441074	0.462 µg/mL
5) m,t AROCHLOR 1016(4)	5.15	290910	0.466 µg/mL
6) m,t AROCHLOR 1260(1)	6.43	184376	0.453 µg/mL
7) m,t AROCHLOR 1260(2)	6.73	576342	0.437 µg/mL
8) m,t AROCHLOR 1260(3)	7.27	857873	0.430 µg/mL
9) m,t AROCHLOR 1260(4)	7.92	913747	0.418 µg/mL
13) m,t AROCHLOR 1016(1) #2	4.07	236935	0.442 µg/mL
14) m,t AROCHLOR 1016(2) #2	4.52	526797	0.441 µg/mL
15) m,t AROCHLOR 1016(3) #2	5.00	899635	0.434 µg/mL
16) m,t AROCHLOR 1016(4) #2	5.14	398300	0.438 µg/mL
17) m,t AROCHLOR 1260(1) #2	6.57	55090	0.419 µg/mL
18) m,t AROCHLOR 1260(2) #2	6.87	597794	0.413 µg/mL
19) m,t AROCHLOR 1260(3) #2	7.42	882014	0.402 µg/mL
20) m,t AROCHLOR 1260(4) #2	8.03	883749	0.394 µg/mL

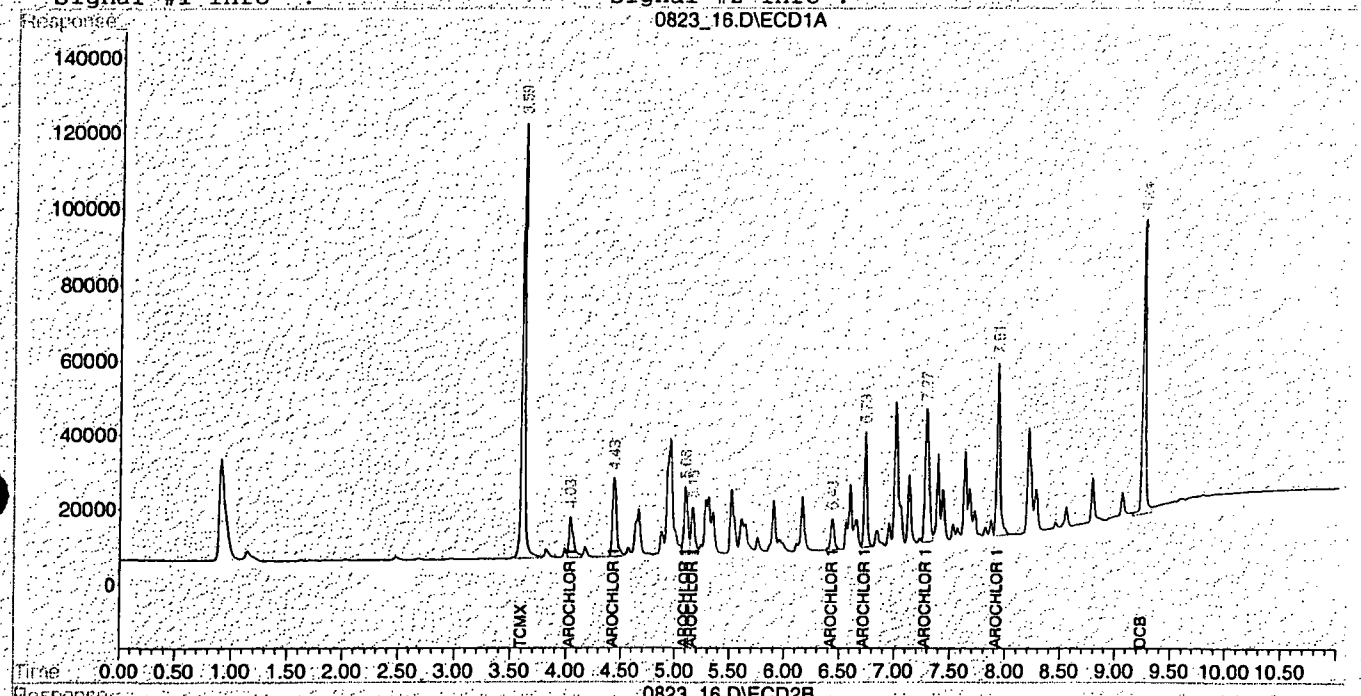
(f)=RT Delta > 1/2 Window (m)=manual int.

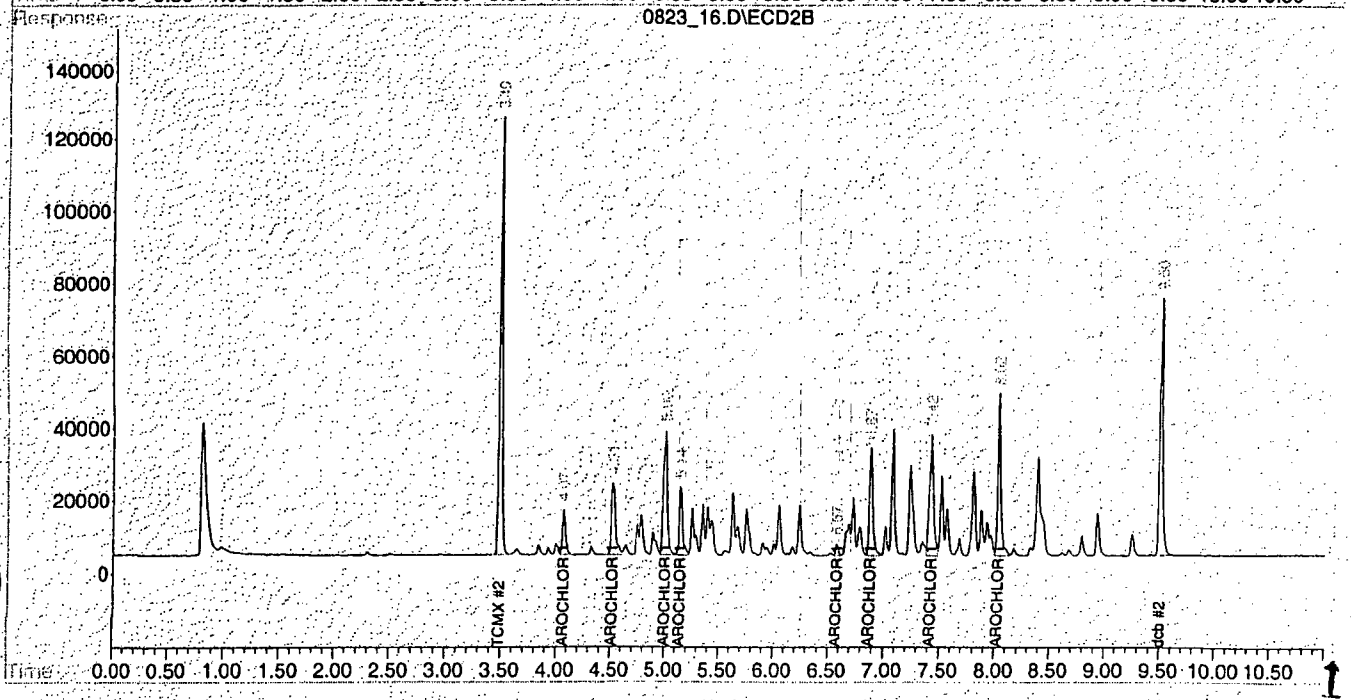
Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA\082302\0823_16.D\ECD1A.CH Vial: 15
Signal #2 : C:\HPCHEM\1\DATA\082302\0823_16.D\ECD2B.CH
Acq On : 23 Aug 2002 5:03 pm Operator: 308
Sample : 1016/1260 .75ppm Inst : SVGC5
Misc : bs030104k30 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Aug 23 17:21 2002 Quant Results File: PCB7.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB7.M (Chemstation Integrator)
Title :
Last Update : Fri Aug 23 17:09:05 2002
Response via : Multiple Level Calibration
DataAcq Meth : PCB6.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





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Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\082302\0823_17.D\ECD1A.CH Vial: 16
Signal #2 : C:\HPCHEM\1\DATA\082302\0823_17.D\ECD2B.CH
Acq On : 23 Aug 2002 5:18 pm Operator: 308
Sample : 1016/1260 1.0ppm Inst : SVGC5
Misc : bs030104k30 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Aug 23 17:36 2002 Quant Results File: PCB7.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB7.M (Chemstation Integrator)
Title :
Last Update : Fri Aug 23 17:21:35 2002
Response via : Initial Calibration
DataAcq Meth : PCB6.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) s TCMX	3.60	2772891	0.136 µg/mL
Spiked Amount 0.200	Range 41 - 145	Recovery =	68.00%
10) s DCB	9.24	1930855	0.138 µg/mL
Spiked Amount 0.200	Range 39 - 137	Recovery =	69.00%
12) s TCMX #2	3.49	2593808	0.138 µg/mL
Spiked Amount 0.200	Range 41 - 145	Recovery =	69.00%
21) s dcb #2	9.50	1728133	0.123 µg/mL
Spiked Amount 0.200	Range 39 - 137	Recovery =	61.50%
Target Compounds			
2) m,t AROCHLOR 1016(1)	4.03	394581	0.772 µg/mL
3) m,t AROCHLOR 1016(2)	4.43	700819	0.713 µg/mL
4) m,t AROCHLOR 1016(3)	5.09	564154	0.712 µg/mL
5) m,t AROCHLOR 1016(4)	5.15	377600	0.737 µg/mL
6) m,t AROCHLOR 1260(1)	6.43	241339	0.740 µg/mL
7) m,t AROCHLOR 1260(2)	6.73	734907	0.678 µg/mL
8) m,t AROCHLOR 1260(3)	7.28	1110612	0.692 µg/mL
9) m,t AROCHLOR 1260(4)	7.92	1190944	0.687 µg/mL
13) m,t AROCHLOR 1016(1) #2	4.07	303781	0.688 µg/mL
14) m,t AROCHLOR 1016(2) #2	4.52	670862	0.680 µg/mL
15) m,t AROCHLOR 1016(3) #2	5.00	1156525	0.683 µg/mL
16) m,t AROCHLOR 1016(4) #2	5.14	512372	0.690 µg/mL
17) m,t AROCHLOR 1260(1) #2	6.57	72025	0.692 µg/mL
18) m,t AROCHLOR 1260(2) #2	6.87	764989	0.653 µg/mL
19) m,t AROCHLOR 1260(3) #2	7.42	1138278	0.650 µg/mL
20) m,t AROCHLOR 1260(4) #2	8.02	1144123	0.646 µg/mL

(f)=RT Delta > 1/2 Window (m)=manual int.

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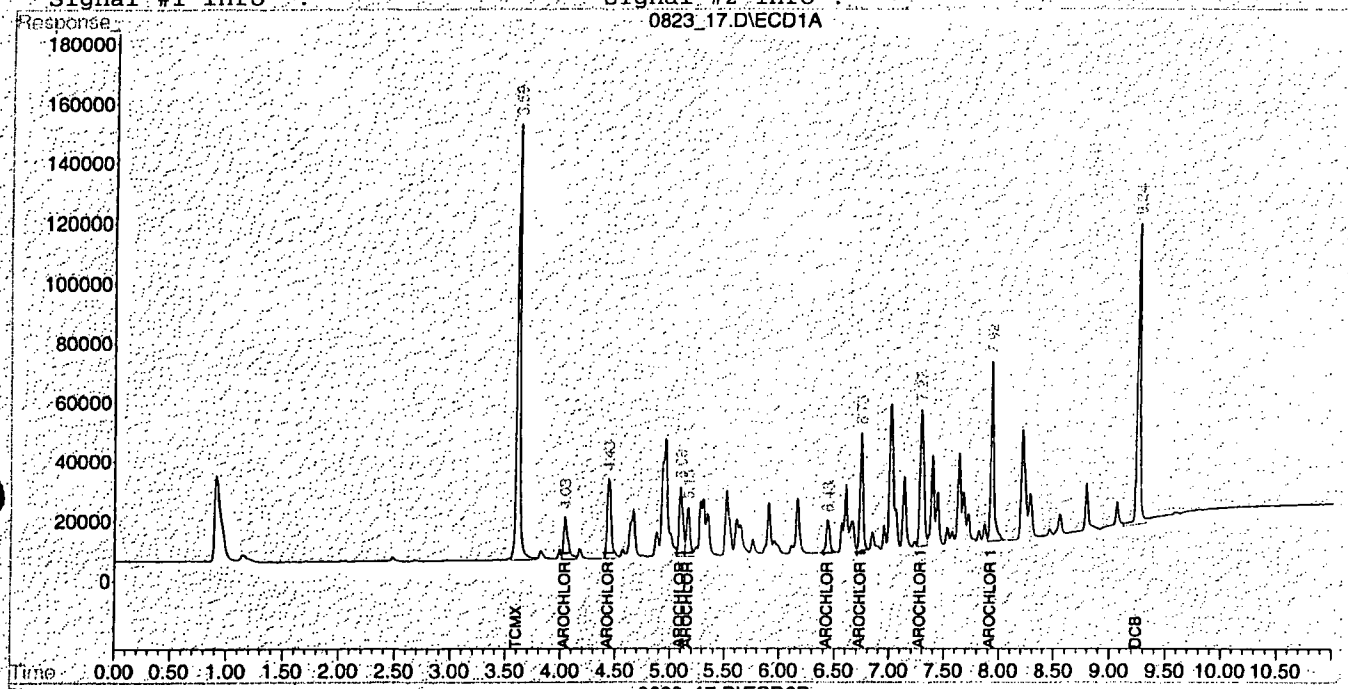
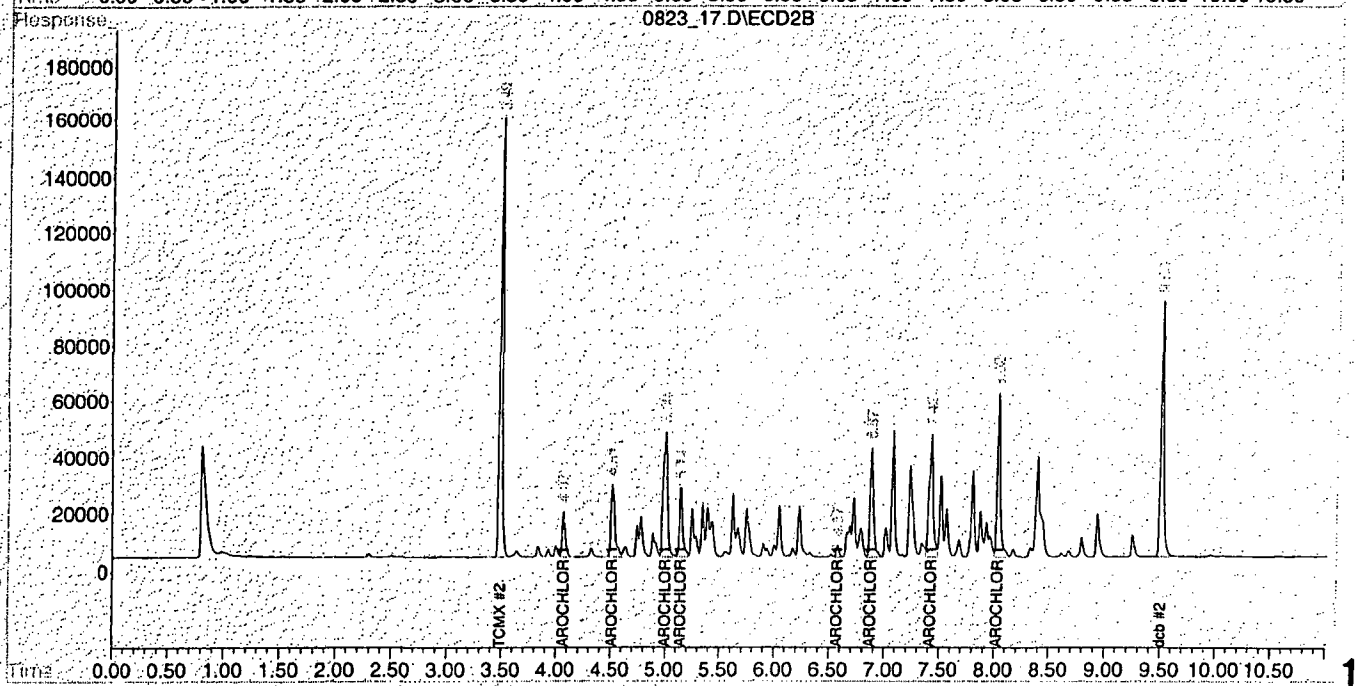
Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA\082302\0823_17.D\ECD1A.CH Vial: 16
Signal #2 : C:\HPCHEM\1\DATA\082302\0823_17.D\ECD2B.CH
Acq On : 23 Aug 2002 5:18 pm Operator: 308
Sample : 1016/1260 1.0ppm Inst : SVGC5
Misc : bs030104k30 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Aug 23 17:36 2002 Quant Results File: PCB7.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB7.M (Chemstation Integrator)
Title :
Last Update : Fri Aug 23 17:21:35 2002
Response via : Multiple Level Calibration
DataAcq Meth : PCB6.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





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Response Factor Report SVGC5

Method : D:\DATA\SVGC#5\1254M.M (Chemstation Integrator)
Title :
Last Update : Sun Aug 25 13:22:17 2002

Calibration Files

1	=0822_02A.D	2	=0822_03.D	3	=0822_04.D
4	=0822_05.D	5	=0822_06.D	6	=0823_44.D

		Compound	1	2	3	4	5	6	Avg		%
1)	s	TCMX	5.351	4.918	4.027	3.212	3.696	3.505	4.118	E7	20
2)	m,t	AROCHLOR 1254(1)						6.178	6.178	E5	0
3)	m,t	AROCHLOR 1254(2)						2.888	2.888	E5	0
4)	m,t	AROCHLOR 1254(3)						1.087	1.087	E6	0
5)	m,t	AROCHLOR 1254(4)						7.391	7.391	E5	0
6)	s	DCB	3.332	3.051	2.946	2.440	2.596	2.806	2.862	E7	11

Signal #2 Calibration Files

1	=0822_02A.D	2	=0822_03.D	3	=0822_04.D
4	=0822_05.D	5	=0822_06.D	6	=0826_33.D

		Compound	1	2	3	4	5	6	Avg		%
1)	s	TCMX	5.300	4.900	4.360	3.395	3.938	3.674	4.261	E7	17
2)	m,t	AROCHLOR 1254(1)						2.568	2.568	E5	0
3)	m,t	AROCHLOR 1254(2)						9.918	9.918	E4	0
4)	m,t	AROCHLOR 1254(3)						1.069	1.069	E6	0
5)	m,t	AROCHLOR 1254(4)						4.714	4.714	E5	0
6)	s	dcb	4.328	3.832	3.104	2.678	3.080	2.888	3.318	E7	18

(#) = Out of Range

Quantitation Report (QT Reviewed)

Signal #1 : D:\DATA\SVGC#5\082302\0823_44.D\ECD1A.CH Vial: 12
Signal #2 : D:\DATA\SVGC#5\082302\0823_44.D\ECD2B.CH
Acq On : 24 Aug 2002 3:14 pm Operator: 308
Sample : 1254 1ppm Inst : SVGC5
Misc : bx030104k30 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Aug 25 13:22 2002 Quant Results File: 1254M.RES

Quant Method : C:\HPCHEM\1\METHODS\1254M.M (Chemstation Integrator)
Title :
Last Update : Sun Aug 25 13:22:17 2002
Response via : Initial Calibration
DataAcq Meth : PCB7.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

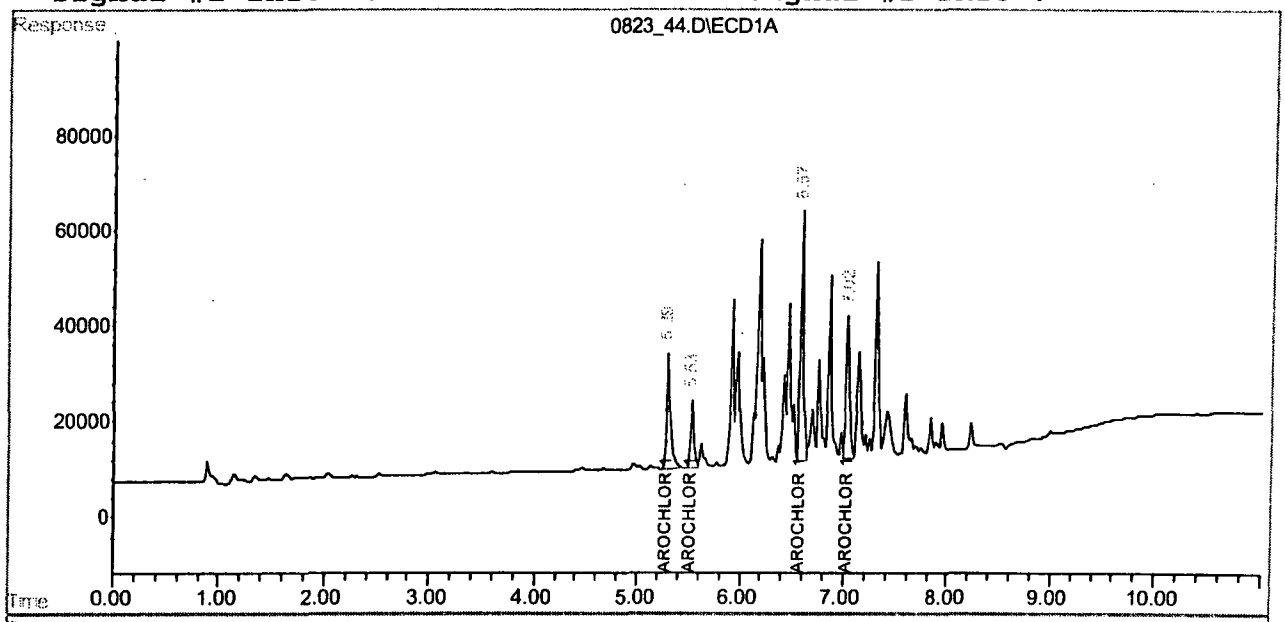
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) s TCMX	0.00	0	N.D. µg/mL
Spiked Amount 0.200	Range 41 - 145	Recovery =	0.00%#
6) s DCB	0.00	0	N.D. µg/mL
Spiked Amount 0.200	Range 39 - 137	Recovery =	0.00%#
8) s TCMX #2	0.00	0	N.D. µg/mL
Spiked Amount 0.200	Range 41 - 145	Recovery =	0.00%#
13) s dcb #2	0.00	0	N.D. µg/mLd
Spiked Amount 0.200	Range 39 - 137	Recovery =	0.00%#
Target Compounds			
2) m,t AROCHLOR 1254(1)	5.29	617840	1.000 µg/mL
3) m,t AROCHLOR 1254(2)	5.53	288763	1.000 µg/mL
4) m,t AROCHLOR 1254(3)	6.57	1087483	1.000 µg/mL
5) m,t AROCHLOR 1254(4)	7.02	739059	1.000 µg/mL
9) m,t AROCHLOR 1254(1) #2	5.64	256838	1.000 µg/mL
10) m,t AROCHLOR 1254(2) #2	5.76	99180	1.000 µg/mL
11) m,t AROCHLOR 1254(3) #2	6.70	1068828	1.000 µg/mL
12) m,t AROCHLOR 1254(4) #2	7.09	471376	1.000 µg/mL

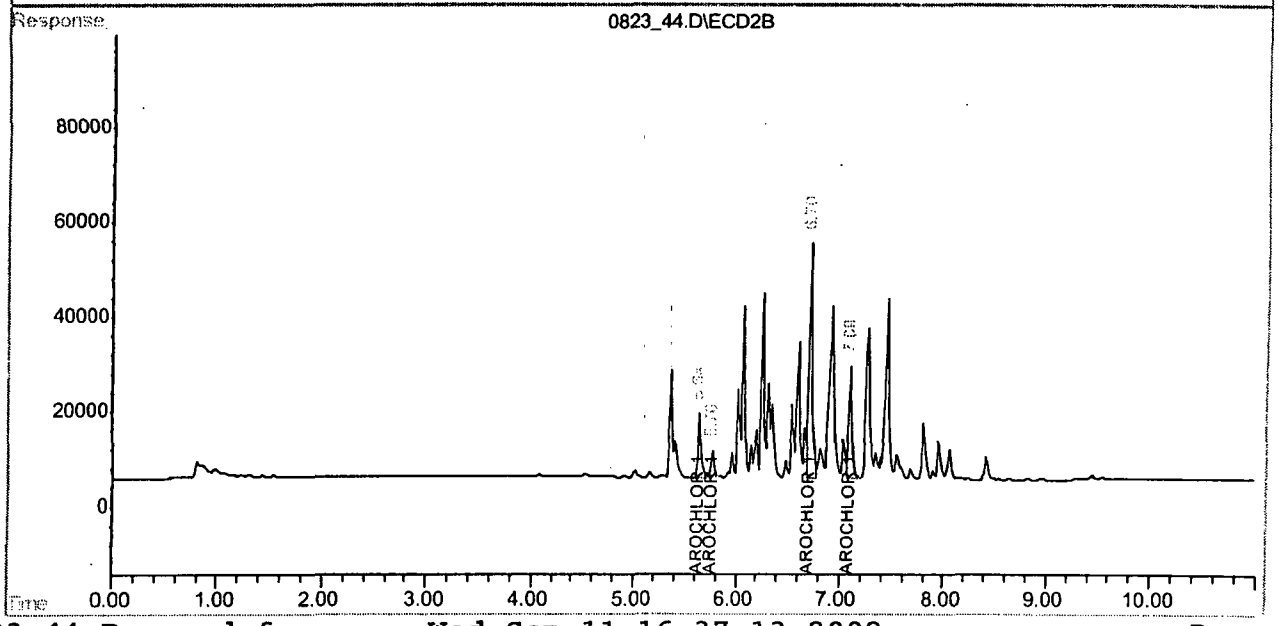
Quantitation Report (QT Reviewed)

Signal #1 : D:\DATA\SVGC#5\082302\0823_44.D\ECD1A.CH Vial: 12
Signal #2 : D:\DATA\SVGC#5\082302\0823_44.D\ECD2B.CH
Acq On : 24 Aug 2002 3:14 pm Operator: 308
Sample : 1254 1ppm Inst : SVGC5
Misc : bx030104k30 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Aug 25 13:22 2002 Quant Results File: 1254M.RES

Quant Method : C:\HPCHEM\1\METHODS\1254M.M (Chemstation Integrator)
Title :
Last Update : Sun Aug 25 13:22:17 2002
Response via : Multiple Level Calibration
DataAcq Meth : PCB7.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





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Calibration Standards

Total Solids

Date : 8/23/02 Environmental Science Corporation Page : 1

Time : 4:13 PM LABORATORY BENCH SHEET

Date Created : 8/23/02 11:30:42 AM Test Abbrev : TS WORKGROUP : **WG81508**

By Analyst : 036 1027 Test Name : Total Solids (2540G)

EPA Method : 2540G Date Analyzed : 8/23/02 10:37:00 AM

ACCTNUM	SAMPLE #		Vessel No.	B Dish Weight	C Weight Wet Sample	A1 Final Weight (g)	A2 Final Weight (g)	(A1-B)*100 / C-B	100 - % TS = % Moist	QC Value (For QC Samples)
WILGASKS	L87214-02	SS	36	1.2533	14.5802	11.884	11.884	79.768738 %	20.231261 %	0 %
WILGASKS	L87214-04	SS	37	1.2437	13.977	12.824	12.8241	90.945002 %	9.0549975 %	0 %
WILGASKS	L87214-05	SS	38	1.2575	13.3309	12.2514	12.2514	91.058856 %	8.9411433 %	0 %
WILGASKS	L87214-06	SS	39	1.2493	14.5842	13.8373	13.8374	94.398908 %	5.6010919 %	0 %
	Blank		40	1.2512	1.2512	1.2502	1.2503	0%	0%	0 %
	LCS		41	1.2556	11.2867	6.2547	6.2548	49.83601 %	50.16399 %	99.672 %
	L87214-06D	SS	42	1.2515	14.9887	14.1984	14.1986	94.247008 %	5.7529919 %	0.161 %

QC 4

LCS TV : 50

LCS LOT # : BW062701C009 Quality Control : Reviewed By _____ Date 082302

WATER EXTRACTION LOG

Environmental Science Corp.

DATE 8/23/02

NaSO4 Lot # 8132 ANALYST KK

Surrogate Std # 8082 Solvent Lot # 8207 (MeCl2) Acetone Hexane MTBE Other_____

Spike Std # 7719 Solvent Lot # 8199 MeCl2 Acetone (Hexane) MTBE Other_____

PCB1260 M. Spike Std # 7719 M.Spike Vol. Used 1.0 LC Spike Std# 7719 LC Spike Vol. Used 1.0mL

EXTRACTION METHOD 3510 FOR ANALYSIS METHOD 8082 SOP# 330702

Sample #	Initial pH	Volume Extracted	Solvent Volume Used	Final Volume	Surr. Volume Added	Solvent Exchange Vol.
Method Blank		1000mL	180mL	10mL	1.0mL	50 ml Hexane Exchange
LCS		↓	↓	↓	↓	↓
LCSD		↓	↓	↓	↓	↓
MS						
MSD						
1 L8724-01	SV8082	1000mL	180mL	10mL	1.0mL	50mL Hex Exchange
2 DOC-1	↓	↓	↓	↓	↓	↓
3 DOC-2	↓	↓	↓	↓	↓	↓
~~4 DOC-3~~	↓	↓	↓	↓	↓	↓
~~5 DOC-4~~	↓	↓	↓	↓	↓	↓
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						

G. Hosly 8-23-02

Reviewed by: K Rosace 8/23/02

Remarks/Observations (cont. on back) WG 81517

SOILS/SOLIDS EXTRACTION LOG

Environmental Science Corp.

DATE 8/23/02

NaSO4 Lot # 8132 ANALYST MLG-368

Surrogate Std # 8082 Solvent Lot # 8207 (MeCl2) Acetone Hexane MTBE Other ____

Solvent Lot # 8199 MeCl2 Acetone (Hexane) MTBE Other ____

PCB (1260) M. Spike Std # 7719 M.Spike Vol. Used 1.0ml LC Spike Std# Same LC Spike Vol. Used 1.0ml

EXTRACTION METHOD 3550 FOR ANALYSIS METHOD 8082 SOP# 330705

Sample #	Wet Weight Extracted	Solvent Volume Used	Solvent Volume Rec.	Final Volume	Surr. Volume Added	Remarks/Observations
Method Blank	30.01g	300ml	≈260ml	10.0ml	1.0ml	50ml Hexane Exchange
LCS	30.07g	↓	↓	↓	↓	↓
LCSD	30.08g	↓	↓	↓	↓	↓
MS L87214-02	30.04g	↓	↓	↓	↓	↓
MSD ↓	30.01g	↓	↓	↓	↓	↓
1 L86859-01	30.00g	↓	↓	↓	↓	↓
2 L87098-01	30.00g	↓	↓	↓	↓	↓
3 L87175-01	30.06g	↓	↓	↓	↓	↓
87214-02	30.07g	↓	↓	↓	↓	↓
L03	wipe	↓	↓	↓	↓	↓
6 -04	30.09g	↓	↓	↓	↓	↓
7 -05	30.03g	↓	↓	↓	↓	↓
8 -06	30.05g	↓	↓	↓	↓	↓
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						

Reviewed by: K Roscoe 8/23/02

Remarks/Observations: (Con't on back if nec.)
WG81519

Directory: C:\HPCHEM\1\DATA\082302

Injection Log

Svg c.5

PCB 7

~ 9/25/02

8/25/02 KK

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	1	0823_01.D	1.	hexane		23 Aug 2002 10:51
2	2	0823_02.D	1.	1016/1260 .75ppm		23 Aug 2002 11:06
3	3	0823_03.D	1.	Blank 1x 15-5	surr ESC8082	23 Aug 2002 11:21
4	4	0823_04.D	1.	idoc 1 1x 15-5	8/22 GM PCBspk ESC7740	23 Aug 2002 11:35
5	5	0823_05.D	1.	idoc 2 1x 15-5	8/22 GM PCBspk ESC7740	23 Aug 2002 11:50
6	6	0823_06.D	1.	idoc 3 1x 15-5	8/22 GM PCBspk ESC7740	23 Aug 2002 12:05
7	7	0823_07.D	1.	idoc 4 1x 15-5	8/22 GM PCBspk ESC7740	23 Aug 2002 12:19
8	8	0823_08.D	1.	hexane		23 Aug 2002 12:34
9	2	0823_09.D	1.	1016/1260 .25ppm		23 Aug 2002 12:49
10	10	0823_10.D	1.	1016/1260 .50ppm		23 Aug 2002 14:07
11	11	0823_11.D	1.	L86214-01 1x		23 Aug 2002 14:34
12	12	0823_12.D	1.	1016/1260 .05ppm	bs030104k30	23 Aug 2002 16:04
13	13	0823_13.D	1.	1016/1260 .10ppm	bs030104k30	23 Aug 2002 16:19
14	14	0823_14.D	1.	1016/1260 .25ppm	bs030104k30	23 Aug 2002 16:34
15	10	0823_15.D	1.	1016/1260 .50ppm		23 Aug 2002 16:48
16	15	0823_16.D	1.	1016/1260 .75ppm	bs030104k30	23 Aug 2002 17:03
17	16	0823_17.D	1.	1016/1260 1.0ppm	bs030104k30	23 Aug 2002 17:18
18	17	0823_18.D	1.	Blank 1x WG81517 1000-10	surr ESC8082	23 Aug 2002 17:32
19	18	0823_19.D	1.	LCS 1x WG81517 1000-10	spk ESC7740	23 Aug 2002 17:47
20	19	0823_20.D	1.	LCSD 1x WG81517 1000-10	kk 8/23/02 spk ESC7740	23 Aug 2002 18:01
21	20	0823_21.D	1.	L87214-01 1x WG81517 1000-10		23 Aug 2002 18:16
22	21	0823_22.D	1.	IDOC 1 1x 1000-10	kk 8/23/02 .5ppm PCB	23 Aug 2002 18:31
23	22	0823_23.D	1.	IDOC 2 1x 1000-10	kk 8/23/02 .5ppm PCB	23 Aug 2002 18:45
24	10	0823_24.D	1.	1016/1260 .50ppm	bx030104k30	23 Aug 2002 19:00
25	23	0823_25.D	1.	Blank 1x WG81519 30-10	surr ESC8082	23 Aug 2002 19:15
26	24	0823_26.D	1.	LCS 1x WG81519 30-10	spk ESC7719	23 Aug 2002 19:29
27	25	0823_27.D	1.	LCSD 1x WG81519 30-10	MG 8/23/02 spk ESC7719	23 Aug 2002 19:44
28	26	0823_28.D	1.	L87214-02 1x WG81519 30-10		23 Aug 2002 19:58
29	27	0823_29.D	10.	L87214-04 10x WG81519 30-10		23 Aug 2002 20:13
30	28	0823_30.D	10.	L87214-06 10x WG81519 30-10		23 Aug 2002 20:27
31	29	0823_31.D	20.	L87214-03 20x WG81519 wipe-10		23 Aug 2002 20:42
32	30	0823_32.D	10.	L87214-05 10x WG81519 30-10		23 Aug 2002 20:57
33	1	0823_33.D	1.	hexane		23 Aug 2002 21:11
34	10	0823_34.D	1.	1016/1260 .50ppm	bx030104k30	23 Aug 2002 21:26
35	31	0823_35.D	1.	MS 1x WG81519 L87214-02 30-10		23 Aug 2002 21:40
36	32	0823_36.D	1.	MSD 1x WG81519 L87214-02 30-10		23 Aug 2002 21:55
37	1	0823_37.D	1.	hexane		23 Aug 2002 22:09
38	10	0823_38.D	1.	1016/1260 .50ppm	bx030104k30	23 Aug 2002 22:24
39	33	0823_39.D	2.	L87098-01 2x WG81519 30-10		23 Aug 2002 22:38
40	34	0823_40.D	10.	L86859-01 10x WG81519 30-10		23 Aug 2002 22:53
41	35	0823_41.D	RR 50. 10x	L87175-01 50x WG81519 30-10		23 Aug 2002 23:07
42	1	0823_42.D	1.	hexane		23 Aug 2002 23:22
43	10	0823_43.D	1.	1016/1260 .50ppm	bx030104k30	23 Aug 2002 23:37
44	12	0823_44.D	1.	1254 1ppm	bx030104k30	24 Aug 2002 15:14
45	10	0823_45.D	1.	1016/1260 .50ppm	bx030104k30	24 Aug 2002 16:50
46	2	0823_46.D	1.	Blank 1x WG81519 30-10	MG 8/23 surr ESC8082	24 Aug 2002 17:04
47	3	0823_47.D	10.	L87214-05 10x WG81519 30-10 H		24 Aug 2002 17:19

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25 Aug 2002 13:37

Injection Log

Directory: C:\HPCHEM\1\DATA\082302

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
	4	0823_48.D	1.	LCS 1x WG81519 30-10	spk ESC7719	24 Aug 2002 17:33
	5	0823_49.D	1.	LCSD 1x WG81519 30-10	spk ESC7719	24 Aug 2002 17:48
50	10	0823_50.D	1.	1016/1260 .50ppm	bx030104k30	24 Aug 2002 18:03

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Date : 8/23/02
Time : 4:13 PM

Environmental Science Corporation
LABORATORY BENCH SHEET

Date Created : 8/23/02 11:30:42 AM
By Analyst : 036 1027
EPA Method : 2540G

Test Abbrev : **TS**
Test Name : Total Solids (2540G)
Date Analyzed : 8/23/02 10:37:00 AM

WORKGROUP : **WG81508**

ACCTNUM	SAMPLE #		Vessel No.	B Dish Weight	C Weight Wet Sample	A1 Final Weight (g)	A2 Final Weight (g)	(A1-B)*100 / C-B	100 - % TS = % Moist	QC Value (For QC Samples)
WILGASKS	L87214-02	SS	36	1.2533	14.5802	11.884	11.884	79.768738 %	20.231261 %	0 %
WILGASKS	L87214-04	SS	37	1.2437	13.977	12.824	12.8241	90.945002 %	9.0549975 %	0 %
WILGASKS	L87214-05	SS	38	1.2575	13.3309	12.2514	12.2514	91.058856 %	8.9411433 %	0 %
WILGASKS	L87214-06	SS	39	1.2493	14.5842	13.8373	13.8374	94.398908 %	5.6010919 %	0 %
	Blank		40	1.2512	1.2512	1.2502	1.2503	0 %	0 %	0 %
	LCS		41	1.2556	11.2867	6.2547	6.2548	49.83601 %	50.16399 %	99.672 %
	L87214-06D	SS	42	1.2515	14.9887	14.1984	14.1986	94.247008 %	5.7529919 %	0.161 %

QC 4

LCS TV : 50
LCS LOT # : BW062701C009 Quality Control : Reviewed By _____ Date 082302

120

Williams Gas Pipeline Central

13424 West 98th Street
Shawnee Mission,KS 66215

Alternate billing information:

Custody
Page ___ of ___

Q701499

Prepared by:

ENVIRONMENTAL SCIENCE CORP.
12065 Lebanon Road
Mt. Juliet, TN 37122
Phone (800) 767-5859
FAX (615) 758-5859

Report to: Mr. Mark Sullivan

Email: cfortey@atkinsbenham.com,

Project Description: Williams Buffalo PCB Project

City/State Collected: Harper County, Oklahoma

Phone: (913) 310-7625
FAX: (913) 310-7630

Client Project #: 2203401

Lab Project #: WILGASKS-ATKINS

Collected by (print): Bruce McKenzie

Site/Facility ID#: BUFFALO

P.O.#: —

Collected by (signature): B McKenzie

Packed on Ice N ___ Y ✓

Rush? (Lab MUST Be Notified)
___ Same Day 200%
✓ Next Day 100%
___ Two Day 50%

Date Results Needed: 8-24-02

Email? ___No X Yes
FAX? ___No ___Yes

CoCode: WILGASKS (lab use only)
Template/Prelogin: T15458/P61944
Cooler #:
Shipped Via: FedEX Standard

Analysis/Container/Preservative

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	8082 WIPE 4ozClr-NoPres	SV8082 PCB's 1L-Amb NoPres	SV8082 PCB's 4ozClr-NoPres	Total Solids 4ozClr-NoPres			Remarks/Contaminant	Sample # (lab only)
BUFEQ-04	Grab	GW	—	8/22/02	1153	1		X						L87214-01
BUFPE-01	Comp	SS	—	8/22/02	1227	2			X	X				02
BUFDL-05	Grab	SS	—	8/22/02	0844	1	X							03
Blind A	Comp	SS	—	8/22/02	—	2			X	X				04
BUFPE-02	Comp	SS	—	8/22/02	1400	2			X	X				05
BUFPE-03	Comp	SS	—	8/22/02	1411	2			X	X				06

*Matrix: SS - Soil GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other_____

pH _____ Temp _____

Flow _____ Other _____

Remarks: THIS IS A QC4 DATA PACKAGE PROJECT / SOILS ARE TO REPORT IN DRY WEIGHT.

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Samples returned via: ☐ UPS ☑ FedEx ☐ Courier ☐	Condition: (lab use only)
Bruce McKenzie	8/22/02	1526			
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: 4°C Bottles Received: 10	
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 8/23/02 Time: 0945	pH Checked: NCF:

Environmental Science Corporation

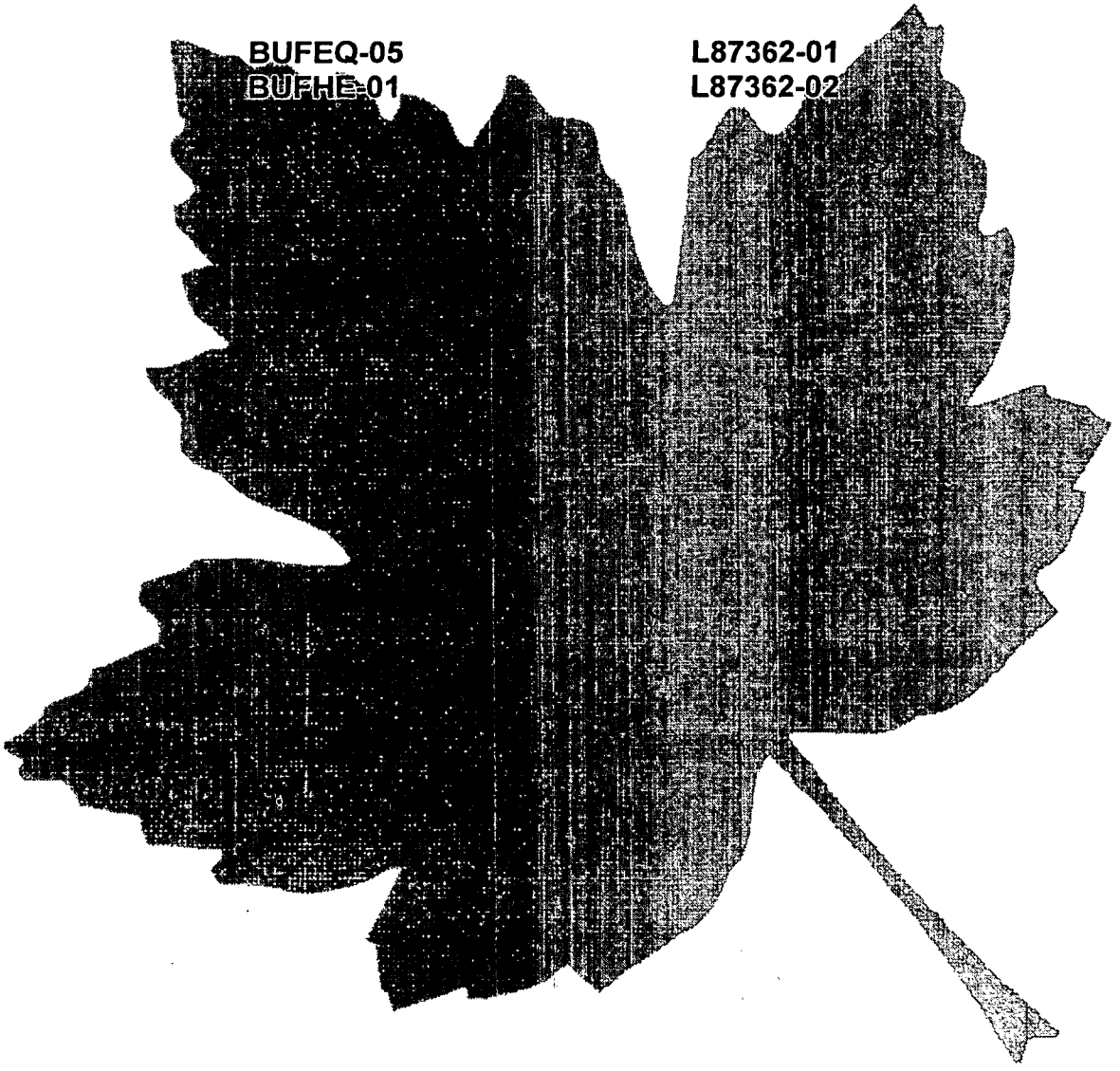
Mount Juliet, TN

For: Williams Gas Pipeline
Buffalo PCB Project

Project #: 2203401

Login: L87362

Client Sample ID	Lab Sample ID.
BUFEQ-05	L87362-01
BUFHE-01	L87362-02



(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

EST. 1970

Environmental Science Corporation
Mount Juliet, TN

For: William Gas Pipeline Central
Project: Buffalo
Project # 2203401
QAD1520

SDG: L87362

September 13, 2002

Sample Receiving and handling

All samples were received at the correct temperature, in the proper containers, and with the appropriate preservatives. All method holding times were met.

METHOD – Polychlorinated Biphenyls by Method 8082

Laboratory Control Standard (LCS)

Samples L87362-01 and L87362-02 were analyzed in analytic batch WG81609. The laboratory control standard recovery associated with these samples was within laboratory control limits.

Matrix Spike and Matrix Spike Duplicate (MS/MSD)

For analytic batch WG81609, matrix spike and matrix spike duplicate analysis was performed on associated batch sample L87378-07. The spike recoveries and the relative percent difference were within laboratory control limits.

Blank Analysis
The method blanks and all continuing calibration blanks were below the method quantitation limit for all Arochlors.

Calibration
The SVGC#5 was initially calibrated on 8/26/02 for dual column analysis. The calibration verification standards were within method limits.

Surrogates

The surrogate recoveries were within laboratory control limits for all samples and quality control samples.

Susan Murphy

Susan Murphy

Quality Control Specialist
Environmental Science Corp.

ENVIRONMENTAL
SCIENCE CORP.

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Ms. Cristina Fortey
Atkins Benham Inc.
2488 East 81 St. Suite 6000
Tulsa, OK 74137

August 27, 2002

ESC Sample # : L87362-01

Site ID : BUFFALO

Project # : 2203401

Date Received : August 24, 2002
Description : Williams Buffalo PCB Project

Sample ID : BUFEQ-05

Collected By : Bruce McKenzie
Collection Date : 08/23/02 08:23

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Polychlorinated Biphenyls						
PCB 1016	BDL	10.	ug/wipe	8082	08/26/02	20
PCB 1221	BDL	10.	ug/wipe	8082	08/26/02	20
PCB 1232	BDL	10.	ug/wipe	8082	08/26/02	20
PCB 1242	BDL	10.	ug/wipe	8082	08/26/02	20
PCB 1248	BDL	10.	ug/wipe	8082	08/26/02	20
PCB 1254	BDL	10.	ug/wipe	8082	08/26/02	20
PCB 1260	BDL	10.	ug/wipe	8082	08/26/02	20

Tom Mellette, ESC Representative

BDL - Below Detection Limit
Det. Limit - Estimated Quantitation Limit(EQL)

Laboratory Certification Numbers:
A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
KY - 90010, KYUST - 0016, NC - ENV375,DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233

Note:
The reported analytical results relate only to the sample submitted.
This report shall not be reproduced, except in full, without the written approval from ESC.

ENVIRONMENTAL SCIENCE CORP.

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Est. 1970

REPORT OF ANALYSIS

Ms. Cristina Fortey
Atkins Benham Inc.
2488 East 81 St. Suite 6000
Tulsa, OK 74137

August 27, 2002

ESC Sample # : L87362-02

Date Received : August 24, 2002
Description : Williams Buffalo PCB Project

Site ID : BUFFALO

Sample ID : BUFHE-01

Project # : 2203401

Collected By : Bruce McKenzie
Collection Date : 08/23/02 10:47

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Polychlorinated Biphenyls						
PCB 1016	BDL	10.	ug/wipe	8082	08/26/02	20
PCB 1221	BDL	10.	ug/wipe	8082	08/26/02	20
PCB 1232	BDL	10.	ug/wipe	8082	08/26/02	20
PCB 1242	BDL	10.	ug/wipe	8082	08/26/02	20
PCB 1248	BDL	10.	ug/wipe	8082	08/26/02	20
PCB 1254	BDL	10.	ug/wipe	8082	08/26/02	20
PCB 1260	BDL	10.	ug/wipe	8082	08/26/02	20

Tom Mellette, ESC Representative

BDL - Below Detection Limit
Det. Limit - Estimated Quantitation Limit(EQL).

Laboratory Certification Numbers:
A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
KY - 90010, KYUST - 0016, NC - ENV375,DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233

Note:
The reported analytical results relate only to the sample submitted.
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Attachment A
List of Analytes with QC Qualifiers

Sample #	Analyte	Qualifier
L87362-01	PCB 1016	0
	PCB 1221	0
	PCB 1232	0
	PCB 1242	0
	PCB 1248	0
	PCB 1254	0
	PCB 1260	0
L87362-02	PCB 1016	0
	PCB 1221	0
	PCB 1232	0
	PCB 1242	0
	PCB 1248	0
	PCB 1254	0
	PCB 1260	0

Attachment B
Explanation of QC Qualifier Codes

Qualifier	Meaning
O	(ESC) Sample diluted due to matrix interferences that impaired the ability to make an accurate analytical determination. The detection limit is elevated in order to reflect the necessary dilution.

Qualifier Report Information

ESC utilizes sample and result qualifiers as set forth by the EPA Contract Laboratory Program and as required by most certifying bodies including NELAC. In addition to the EPA qualifiers adopted by ESC, we have implemented ESC qualifiers to provide more information pertaining to our analytical results. Each qualifier is designated in the qualifier explanation as either EPA or ESC. Data qualifiers are intended to provide the ESC client with more detailed information concerning the potential bias of reported data. Because of the wide range of constituents and variety of matrices incorporated by most EPA methods, it is common for some compounds to fall outside of established ranges. These exceptions are evaluated and all reported data is valid and useable unless qualified as 'R' (Rejected).

Definitions

Accuracy - The relationship of the observed value of a known sample to the true value of a known sample. Represented by percent recovery and relevant to samples such as: control samples, matrix spike recoveries, surrogate recoveries, etc.

Precision - The agreement between a set of samples or between duplicate samples. Relates to how close together the results are and is represented by Relative Percent Differrence.

Surrogate - Organic compounds that are similar in chemical composition, extraction, and chromotography to analytes of interest. The surrogates are used to determine the probable response of the group of analytes that are chemically related to the surrogate compound. Surrogates are added to the sample and carried through all stages of preparation and analyses.

TIC - Tentatively Identified Compound: Compounds detected in samples that are not target compounds, internal standards, system monitoring compounds, or surrogates.

Summary of Remarks For Samples Printed
08/27/02 at 08:44:09

TSR Signing Reports: 690

Sample: L87362-01 Account: WILGASKS Received: 08/24/02 09:45 Due Date: 08/26/02 00:00
QC4 Project. Due 08/26/02 by noon.
Sample: L87362-02 Account: WILGASKS Received: 08/24/02 09:45 Due Date: 08/26/02 00:00
QC4 Project. Due 08/26/02 by noon.

Polychlorinated Biphenyls
by
Method 8082

U.S. EPA - CLP

COVER PAGE - PESTICIDES/PCB ANALYSES DATA PACKAGE

Lab Name: Environmental Science Corporation Contract: Willams Gas & Pipeline

Lab Code: TN00003 Case No.: QAD1520 SAS No.: SDG No.: L87362

Matrix: Wipe Analytic Batch: WG81609

EPA Sample No.	Lab Sample ID.
BUFEQ-05	L87362-01
BUFHE-01	L87362-02

Comments:

I certify that this data package accurately represents the information in the raw data found herein, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: William Mark WILLIAM MARK

Date: 9/16/02 William Mark

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Blank 1x

Lab Name: Environmental Science Corpor Contract: Willams Gas & Pipeline

Lab Code: TN00003 Case No.: QAD1520 SAS No.: _____ SDG No.: L87362

Matrix: (soil/water) Wipe Lab Sample ID: Blank 1x

Sample wt/vol: Wipe (g/mL) _____ Lab File ID: 0826_08.D

% Moisture: _____ decanted: (Y/N) _____ Date Received: _____

Extraction: (SepF/Cont/Sonc) Micro Date Extracted: 08/25/02

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 08/26/02

Injection Volume: _____ (uL) Dilution Factor: 1

GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) mg/kg	Q
12674-11-2	Aroclor-1016	0.02	U
11104-28-2	Aroclor-1221	0.02	U
11141-16-5	Aroclor-1232	0.02	U
53469-21-9	Aroclor-1242	0.02	U
12672-29-6	Aroclor-1248	0.02	U
11097-69-1	Aroclor-1254	0.02	U
11096-82-5	Aroclor-1260	0.02	U

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

LCS 1x

Lab Name: Environmental Science Corpor Contract: Willams Gas & Pipeline

Lab Code: TN00003 Case No.: QAD1520 SAS No.: _____ SDG No.: L87362

Matrix: (soil/water) Wipe Lab Sample ID: LCS 1x

Sample wt/vol: Wipe (g/mL) g Lab File ID: 0826_11.D

% Moisture: _____ decanted: (Y/N) _____ Date Received: _____

Extraction: (SepF/Cont/Sonc) Micro Date Extracted: 08/25/02

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 08/26/02

Injection Volume: _____ (uL) Dilution Factor: 1

GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) mg/kg	Q
12674-11-2 - - - - -	Aroclor-1016	0.20	U
11104-28-2 - - - - -	Aroclor-1221	0.20	U
11141-16-5 - - - - -	Aroclor-1232	0.20	U
53469-21-9 - - - - -	Aroclor-1242	0.20	U
12672-29-6 - - - - -	Aroclor-1248	0.20	U
11097-69-1 - - - - -	Aroclor-1254	0.20	U
11096-82-5 - - - - -	Aroclor-1260	0.47	

1D

EPA SAMPLE NO.

PESTICIDE ORGANICS ANALYSIS DATA SHEET

LCSD 1x

Lab Name: Environmental Science Corpor Contract: Willams Gas & Pipeline

Lab Code: TN00003 Case No.: QAD1520 SAS No.: _____ SDG No.: L87362

Matrix: (soil/water) Wipe Lab Sample ID: LCSD 1x

Sample wt/vol: Wipe (g/mL) g Lab File ID: 0826_14.D

% Moisture: _____ decanted: (Y/N) _____ Date Received: _____

Extraction: (SepF/Cont/Sonc) Micro Date Extracted: 08/25/02

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 08/26/02

Injection Volume: _____ (uL) Dilution Factor: 1

GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) mg/kg	Q
12674-11-2	Aroclor-1016	0.20	U
11104-28-2	Aroclor-1221	0.20	U
11141-16-5	Aroclor-1232	0.20	U
53469-21-9	Aroclor-1242	0.20	U
12672-29-6	Aroclor-1248	0.20	U
11097-69-1	Aroclor-1254	0.20	U
11096-82-5	Aroclor-1260	0.33	

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MS 1x WG81609

Lab Name: Environmental Science Corpor Contract: Willams Gas & Pipeline

Lab Code: TN00003 Case No.: QAD1520 SAS No.: _____ SDG No.: L87362

Matrix: (soil/water) Wipe Lab Sample ID: MS 1x WG81609

Sample wt/vol: Wipe (g/mL) g Lab File ID: 0826_17.D

% Moisture: _____ decanted: (Y/N) _____ Date Received: _____

Extraction: (SepF/Cont/Sonc) Micro Date Extracted: 08/25/02

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 08/26/02

Injection Volume: _____ (uL) Dilution Factor: 10

GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) mg/kg	Q
12674-11-2 - - - - -	Aroclor-1016	0.20	U
11104-28-2 - - - - -	Aroclor-1221	0.20	U
11141-16-5 - - - - -	Aroclor-1232	0.20	U
53469-21-9 - - - - -	Aroclor-1242	0.20	U
12672-29-6 - - - - -	Aroclor-1248	0.20	U
11097-69-1 - - - - -	Aroclor-1254	0.20	U
11096-82-5 - - - - -	Aroclor-1260	0.46	

1D

EPA SAMPLE NO.

PESTICIDE ORGANICS ANALYSIS DATA SHEET

MSD 1x

Lab Name: Environmental Science Corpor Contract: Willams Gas & Pipeline

Lab Code: TN00003 Case No.: QAD1520 SAS No.: _____ SDG No.: L87362

Matrix: (soil/water) Wipe Lab Sample ID: MSD 1x

Sample wt/vol: Wipe (g/mL). 0 Lab File ID: 0826_18.D

% Moisture: _____ decanted: (Y/N) _____ Date Received: _____

Extraction: (SepF/Cont/Sonc) Micro Date Extracted: 08/25/02

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 08/26/02

Injection Volume: _____ (uL) Dilution Factor: 10

GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) mg/kg	Q
12674-11-2 - - - - -	Aroclor-1016	0.20	U
11104-28-2 - - - - -	Aroclor-1221	0.20	U
11141-16-5 - - - - -	Aroclor-1232	0.20	U
53469-21-9 - - - - -	Aroclor-1242	0.20	U
12672-29-6 - - - - -	Aroclor-1248	0.20	U
11097-69-1 - - - - -	Aroclor-1254	0.20	U
11096-82-5 - - - - -	Aroclor-1260	0.38	

2F

PESTICIDE SURROGATE RECOVERY

Lab Name: Environmental Science Corporation Contract: Willams Gas & Pipeline

Lab Code: TN00003 Case No.: QAD1520 SAS No.: _____ SDG No.: L87362

GC Column(1): RTX-CLP Pest 1 GC Column(2): RTX-CLP Pest 2

Matrix: (soil/water) Wipe

	Lab SAMPLE NO.	TCX 1 %REC	#	TCX 2 %REC	#	DCB 1 %REC	#	DCB 2 %REC	#	OTHER (2)	TOT OUT
01	Blank 1x	66%		71%		76%		67%			0
02	LCS 1x	66%		71%		71%		69%			0
03	LCSD 1x	67%		71%		80%		70%			0
04	MS 1x WG81609	61%		65%		80%		69%			0
05	MSD 1x	56%		60%		70%		68%			0
06	L87362-01 20x	103%		94%		99%		94%			0
07	L87362-02 20x	110%		101%		133%		101%			0
08											
09											
10											
11											
12											
13											
14											
15											
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25											
26											
27											
28											
29											
30											

	ADVISORY QC LIMITS
TCX = Tetrachloro-m-xylene	(41-145)
DCB = Decachlorobiphenyl	(39-137)

Column to be used to flag recovery values

* Values outside of contract required QC limits

3F

PESTICIDE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Environmental Science Corporation Contract: Willams Gas & Pipeline

Lab Code: TN00003 Case No.: QAD1520 SAS No.: SDG No.: L87362

Matrix Spike - Lab Sample No.: L87378-07 Matrix: (soil/water) Wipe

COMPOUND		SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC. LIMITS REC.
1260						
	1	0.5	0	0.474		
	2	0.5	0	0.424		
	3	0.5	0	0.451		
	4	0.5	0	0.480	91.5%	49-142

COMPOUND		SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1260							
	1	0.5	0.371				
	2	0.5	0.356				
	3	0.5	0.366				
	4	0.5	0.436	76.5%	18	49-142	12

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

* Values outside of QC limits

RPD: 1 out of 1 outside limits

Spike Recovery: 2 out of 2 outside limits

COMMENTS: High concentration of Arochlor 1254 interfered with the ability to make an accurate 1260 spike determination.

3F

PESTICIDE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Environmental Science Corporation Contract: Willams Gas & Pipeline

Lab Code: TN00003 Case No.: QAD1520 SAS No.: SDG No.: L87362

Matrix Spike - Lab Sample No.: LCS/LCSD Matrix: (soil/water) Wipe

COMPOUND		SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	#	QC. LIMITS REC.
1260							
	1	0.5	0 U	0.430			
	2	0.5	0 U	0.510			
	3	0.5	0 U	0.428			
	4	0.5	0 U	0.492	93.0%		49-142

COMPOUND		SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	#	% RPD	#	QC LIMITS RPD	QC LIMITS REC.
1260									
	1	0.5	0.000						
	2	0.5	1.425						
	3	0.5	0.038						
	4	0.5	0.024	74.4%		22		49-142	12

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

* Values outside of QC limits

RPD: 0 out of 1 outside limits

Spike Recovery: 0 out of 2 outside limits

COMMENTS:

4C

EPA SAMPLE NO.

PESTICIDE METHOD BLANK SUMMARY

Blank 1x

Lab Name: Environmental Science Corporati Contract: Willams Gas & Pipeline

Lab Code: TN00003 Case No.: QAD152 SAS No.: _____ SDG No.: L87362

Lab Sample ID: Blank 1x Lab File ID: 0826_08.D

Matrix: (soil/water) Wipe Extraction:(SepF/Cont/Sonc) Micro

Sulfur Cleanup: (Y/N) N Date Extracted: 08/25/02

Date Analyzed (1): 08/26/02 Date Analyzed (2): 08/26/02

Time Analyzed (1): 11:58 Time Analyzed (2): 11:58

Instrument ID (1): SVGC#5 Instrument ID (2): SVGC#5

GC Column(1): RTX-CLP Pest 1 GC Column(2): RTX-CLP Pest 2 ID: .32 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	Blank 1x	Blank 1x	08/26/02	08/26/02
02	LCS 1x	LCS 1x	08/26/02	08/26/02
03	LCSD 1x	LCSD 1x	08/26/02	08/26/02
04	MS 1x WG81609	MS 1x WG81609	08/26/02	08/26/02
05	MSD 1x	MSD 1x	08/26/02	08/26/02
06	BUFEQ-05	L87362-01 20x	08/26/02	08/26/02
07	BUFHE-01	L87362-02 20x	08/26/02	08/26/02
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				

COMMENTS:

6F

PESTICIDE INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: Environmental Science Corporation Contract: Willams Gas & Pipeline

Lab Code: TN00003 Case No.: QAD149[illegible] SAS No.: _____ SDG No.: L87214

Insrument ID: SVGC#5 Date(s) Analyzed: _____ _____

First Column: RTX CLP Pest 1 Second Column: RTX CLP Pest 2

First Column: COMPOUND	AMOUNT (ppm)	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR
Aroclor 1016	0.5	*1	4.06	4.01	4.11	4.127 E5
		*2	4.45	4.40	4.50	7.933 E5
		*3	5.11	5.06	5.16	6.422 E5
		4	5.18	5.13	5.23	4.132 E5
		5				
		5				
Aroclor 1260	0.5	*1	6.75	6.70	6.80	8.777 E5
		*2	7.15	7.10	7.20	4.993 E5
		*3	7.30	7.25	7.35	1.234 E6
		4	7.94	7.89	7.99	1.284 E6
		5				

Second Column COMPOUND	AMOUNT (ppm)	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR
Aroclor 1016	0.5	*1	4.09	4.04	4.14	3.048 E5
		*2	4.54	4.49	4.59	6.793 E5
		*3	5.02	4.97	5.07	1.112 E6
		4	5.16	5.11	5.21	4.930 E5
		5				
		5				
Aroclor 1260	0.5	*1	6.89	6.84	6.94	7.592 E5
		*2	7.09	7.04	7.14	7.934 E5
		*3	7.44	7.39	7.49	1.040 E6
		4	8.05	8.00	8.10	1.015 E6
		5				

* Denotes required peaks

7E

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: Environmental Science Corporation Contract: Willams Gas & Pipeline

Lab Code: TN00003 Case No.: QAD1520 SAS No.: SDG No.: L87362

Primary Analysis: Init. Calib. Date(s):

Arochlor 1016/1260 Date Analyzed: 08/26/02

Instrument: SVGC#5 Time Analyzed: 11:45

Lab File ID: 0826_16.D

Archlor 1254 Date Analyzed:

Lab File ID: Time Analyzed:

First Column: COMPOUND		RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
Arochlor 1016	1	4.05	4.01	4.11	0.521		
	2	4.45	4.40	4.50	0.516		
	3	5.11	5.06	5.16	0.495		
	4	5.18	5.13	5.23	0.520	0.500	3
Arochlor 1260	1	6.75	6.70	6.80	0.467		
	2	7.14	7.10	7.20	0.487		
	3	7.30	7.25	7.35	0.440		
	4	7.94	7.89	7.99	0.485	0.500	6

Second Column: COMPOUND		RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
Arochlor 1016	1	4.08	4.04	4.14	0.474		
	2	4.53	4.49	4.59	0.457		
	3	5.01	4.97	5.07	0.466		
	4	5.15	5.11	5.21	0.467	0.500	7
Arochlor 1260	1	6.89	6.84	6.94	0.460		
	2	7.08	7.04	7.14	0.459		
	3	7.43	7.39	7.49	0.467		
	4	8.04	8.00	8.10	0.469	0.500	7

7E

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: Environmental Science Corporation Contract: Willams Gas & Pipeline

Lab Code: TN00003 Case No.: QAD1520 SAS No.: _____ SDG No.: L87362

Primary Analysis: Init. Calib. Date(s): _____

Arochlor 1016/1260 Date Analyzed: 08/26/02

Instrument: SVGC#5 Time Analyzed: 11:45

Lab File ID: 0826_35.D

Archlor 1254 Date Analyzed: _____

Lab File ID: _____ Time Analyzed: _____

First Column: COMPOUND		RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
Arochlor 1016	1	4.04	4.01	4.11	0.521		
	2	4.44	4.40	4.50	0.516		
	3	5.10	5.06	5.16	0.495		
	4	5.17	5.13	5.23	0.520	0.500	3
Arochlor 1260	1	6.74	6.70	6.80	0.467		
	2	7.14	7.10	7.20	0.487		
	3	7.29	7.25	7.35	0.440		
	4	7.93	7.89	7.99	0.553	0.500	3

Second Column: COMPOUND		RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
Arochlor 1016	1	4.08	4.04	4.14	0.467		
	2	4.53	4.49	4.59	0.446		
	3	5.01	4.97	5.07	0.456		
	4	5.15	5.11	5.21	0.449	0.500	9
Arochlor 1260	1	6.88	6.84	6.94	0.435		
	2	7.08	7.04	7.14	0.448		
	3	7.43	7.39	7.49	0.462		
	4	8.04	8.00	8.10	0.470	0.500	9

8D

PESTICIDE ANALYTICAL SEQUENCE

Lab Name: Environmental Science Corporation Contract: Willams Gas & Pipeline

Lab Code: TN00003 Case No.: QAD1520 SAS No.: _____ SDG No.: L87362

GC Column: RTX-CLP Pest 1 Init. Calib. Date(s): _____ _____

Instrument ID: SVGC#5

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION

TCX: 3.61 DCB: 9.26

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	TXC RT #	DCB RT #
01	Blank 1x	Blank 1x	08/26/02	9:48	3.61	9.26
02	LCS 1x	LCS 1x	08/26/02	10:46	3.61	9.26
03	LCSD 1x	LCSD 1x	08/26/02	11:30	3.61	9.26
04	MS 1x WG81609	MS 1x WG81609	08/26/02	11:59	3.61	9.26
05	MSD 1x	MSD 1x	08/26/02	0:14	3.61	9.26
06	BUFEQ-05	L87362-01 20x	08/26/02	10:17	3.62	9.26
07	BUFHE-01	L87362-02 20x	08/26/02	10:32	3.62	9.26
08						
09						
10						
11						
12						
13						
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31						
32						

QC LIMITS

TCX = Tetrachloro-m-xylene (± 0.05 MINUTES)

DCB = Decachlorobiphenyl (± 0.10 MINUTES)

Column used to flag retention time values with an asterisk.

* Values outside of QC limits.

LABORATORY CONTROL SAMPLE
WG81609

Lab Name: Environmental Science Corporation Contract: Willams Gas & Pipeline

Lab Code: TN00003 Case No.: QAD1520 SAS No.: SDG No.: L87362

Solid LCS Source: Lab File ID: 0826_11.D

Aqueous LCS Source:

Analyte		True	Found	%R	Control Limits		Q
Arochlor 1260	1	0.5	0.430				
	2	0.5	0.510				
	3	0.5	0.428				
	4	0.5	0.492	93.0%	64%	129%	

Raw Data

SOILS/SOLIDS EXTRACTION LOG

Environmental Science Corp.

DATE 8/25/02

NaSO4 Lot # 8132 ANALYST AT → 3216

[illegible]gate Std # 8082 Solvent Lot # 8207 [MeCl2] Acetone Hexane MTBE Other —

PEST → 8006 Solvent Lot # 8199 MeCl2 Acetone [Hexane] MTBE Other —

M. Spike Std # PCB → 7719 M.Spike Vol. Used 0.5mL LC Spike Std# SAME LC Spike Vol. Used 0.5mL

EXTRACTION METHOD 3546 FOR ANALYSIS METHOD 8081/8082 SOP# —

Sample #	Wet Weight Extracted	Solvent Volume Used	Solvent Volume Rec.	Final Volume	Surr. Volume Added	Remarks/Observations
Method Blank	15.00	35mL	35mL	5.0mL	0.5mL	50mL HEXANE EXCHANGE
LCS/LCSD	15.00					
LCSD/LCS	15.00					
MS/MSD L87359-02	15.00					
MSD/MS L87378-07	15.00					
1 L87357-01	15.00					
2 -02	15.00					
3 -03	15.00					
4 L87359-01	15.00					
5 -02	15.00					
6 -03	15.00					
7 L87362-01	15.00					
8 -02	15.00					
9 L87378-01	15.00					
10 -02	15.00					
11 -03	15.00					
12 -04	15.00					
13 -05	15.00					
14 -06	15.00					
15 -07	15.00					
16 -08	15.00					
17 -09	15.00					
18 -10	15.00					
19 -11	15.00					
20 L87391-01	15.00					

~ PCB

Reviewed by: [signature] 8/26/02

Re[illegible]s/Observations: (Con't on back if nec.)

WG → 81609

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Injection Log

Directory: D:\DATA\SVGC#5\082602

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	1	0826_01.d	1.	hexane		26 Aug 2002 07:39
2	15	0826_02.d	1.	1016/1260 .05ppm		26 Aug 2002 08:21
3	15	0826_02a.d	1.	1016/1260 .05ppm		26 Aug 2002 10:03
4	16	0826_03.d	1.	1016/1260 .10ppm		26 Aug 2002 08:35
5	17	0826_04.d	1.	1016/1260 .25ppm		26 Aug 2002 08:50
6	2	0826_05.d	1.	1016/1260 .50ppm		26 Aug 2002 09:04
7	18	0826_06.d	1.	1016/1260 .75ppm		26 Aug 2002 09:19
8	19	0826_07.d	1.	1016/1260 1.0ppm		26 Aug 2002 09:33
9	3	0826_08.d	1.	Blank 1x WG81609 15-5	surr ESC8082	26 Aug 2002 09:48
10	4	0826_09.d	20.	L87362-01 20x WG81609 wipe-5	mt 8/25/02	26 Aug 2002 10:17
11	5	0826_10.d	20.	L87362-02 20x WG81609 wipe-5	mt 8/25/02	26 Aug 2002 10:32
12	6	0826_11.d	1.	LCS 1x WG81609 15-5	spk ESC7740	26 Aug 2002 10:46
13	7	0826_12.d	1.	LCSD-PEST 1x WG81609 15-5	spiked w/pesticide	26 Aug 2002 11:01
14	1	0826_13.d	1.	hexane		26 Aug 2002 11:16
15	23	0826_14.d	1.	LCSD 1x WG81609 15-5		26 Aug 2002 11:30
16	2	0826_16.d	1.	1016/1260 .50ppm		26 Aug 2002 11:45
17	8	0826_17.d	1.	MS 1x WG81609 L87378-07 15-5		26 Aug 2002 11:59
18	9	0826_18.d	1.	MSD 1x WG81609 L87378-07 15-5		26 Aug 2002 12:14
19	10	0826_19.d	2.	L87378-01 2x WG81609 15-5		26 Aug 2002 12:28
20	11	0826_20.d	1.	L87378-02 1x WG81609 15-5		26 Aug 2002 12:43
21	12	0826_21.d	1.	L87378-03 1x WG81609 15-5		26 Aug 2002 12:58
22	13	0826_22.d	1.	L87378-04 1x WG81609 15-5		26 Aug 2002 13:12
23	14	0826_23.d	1.	L87378-05 1x WG81609 15-5		26 Aug 2002 13:27
24	15	0826_24.d	1.	L87378-06 1x WG81609 15-5		26 Aug 2002 13:41
25	16	0826_25.d	1.	L87378-07 1x WG81609 15-5		26 Aug 2002 13:56
26	17	0826_26.d	10.	L87175-01 10x WG81519 30-10 H		26 Aug 2002 14:11
27	18	0826_27.d	1.	L87391-01 1x WG81609 30-10		26 Aug 2002 14:25
28	19	0826_28.d	1.	L87378-08 1x WG81609 30-10		26 Aug 2002 14:40
29	20	0826_29.d	1.	L87391-09 1x WG81609 30-10		26 Aug 2002 14:54
30	21	0826_30.d	1.	L87391-10 1x WG81609 30-10		26 Aug 2002 15:09
31	22	0826_31.d	1.	L87391-11 1x WG81609 30-10		26 Aug 2002 15:23
32	1	0826_32.d	1.	hexane		26 Aug 2002 15:38
33	3	0826_33.d	1.	1254 1ppm		26 Aug 2002 15:53
34	5	0826_34.d	2.	L87391-11 2x WG81609 30-10 H		26 Aug 2002 16:17
35	2	0826_35.d	1.	1016/1260 .50ppm		26 Aug 2002 16:32

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Quantitation Report (QT Reviewed)

#1 : D:\DATA\SVGC#5\082602\0826_05.D\ECD1A.CH Vial: 2
Signal #2 : D:\DATA\SVGC#5\082602\0826_05.D\ECD2B.CH
Acq On : 26 Aug 2002 9:04 am Operator: 308
Sample : 1016/1260 .50ppm Inst : SVGC5
Misc : Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Aug 26 9:53 2002 Quant Results File: PCB8.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB8.M (Chemstation Integrator)
Title :
Last Update : Mon Aug 26 09:03:54 2002
Response via : Initial Calibration
DataAcq Meth : PCB5.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) s TCMX	3.62	1592973	0.088 µg/mL
Spiked Amount 0.200 Range 41 - 145		Recovery =	44.00%
10) s DCB	9.26	1033835	0.090 µg/mLm
Spiked Amount 0.200 Range 39 - 137		Recovery =	45.00%
12) s TCMX #2	3.51	1271225	0.086 µg/mL
Spiked Amount 0.200 Range 41 - 145		Recovery =	43.00%
21) s dcb #2	9.52	771371	0.080 µg/mL
Spiked Amount 0.200 Range 39 - 137		Recovery =	40.00%
Target Compounds			
2) m,t AROCHLOR 1016(1)	4.06	236520	0.506 µg/mL
3) m,t AROCHLOR 1016(2)	4.45	405071	0.463 µg/mL
4) m,t AROCHLOR 1016(3)	5.11	329688	0.471 µg/mL
5) m,t AROCHLOR 1016(4)	5.18	217995	0.487 µg/mL
6) m,t AROCHLOR 1260(1)	6.75	440904	0.649 µg/mL
7) m,t AROCHLOR 1260(2)	7.15	262166	0.383 µg/mL
8) m,t AROCHLOR 1260(3)	7.30	632576	0.473 µg/mL
9) m,t AROCHLOR 1260(4)	7.94	670102	0.480 µg/mL
13) m,t AROCHLOR 1016(1) #2	4.09	155465	0.438 µg/mL
14) m,t AROCHLOR 1016(2) #2	4.54	341045	0.433 µg/mL
15) m,t AROCHLOR 1016(3) #2	5.02	563825	0.432 µg/mL
16) m,t AROCHLOR 1016(4) #2	5.16	251472	0.438 µg/mL
17) m,t AROCHLOR 1260(1) #2	6.89	379587	0.732 µg/mL
18) m,t AROCHLOR 1260(2) #2	7.09	393521	0.429 µg/mL
19) m,t AROCHLOR 1260(3) #2	7.44	515220	0.411 µg/mL
20) m,t AROCHLOR 1260(4) #2	8.05	500334	0.404 µg/mL

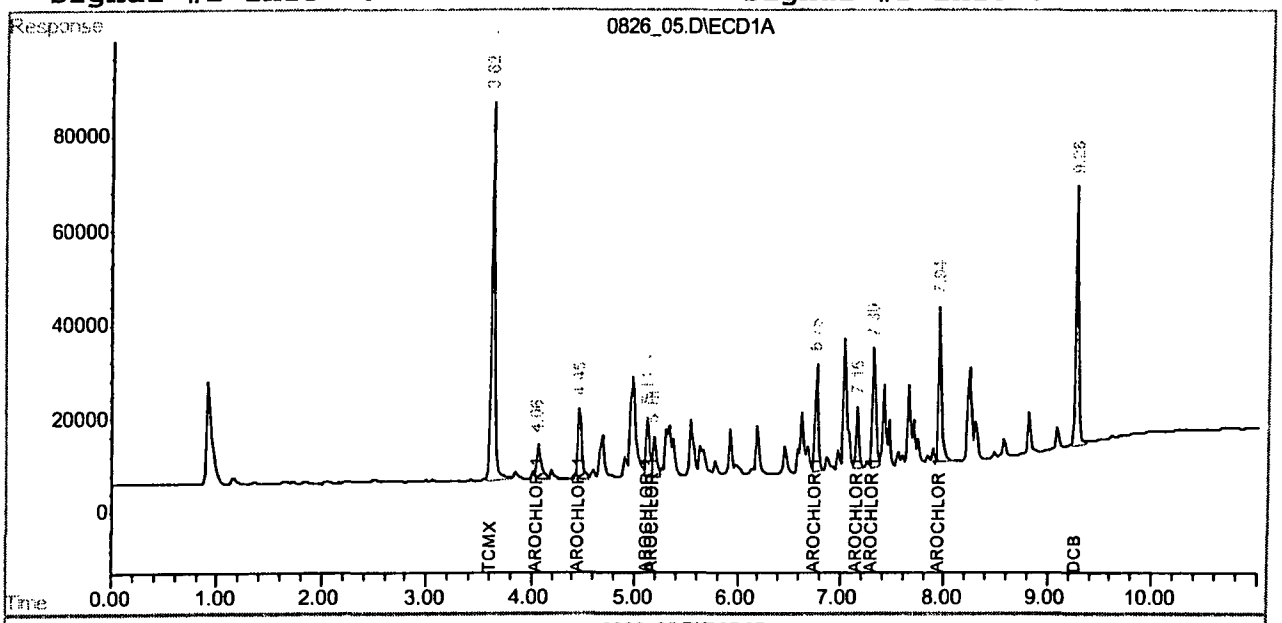
(f)=RT Delta > 1/2 Window (m)=manual int.
0826_05.D envdef.m Fri Sep 13 11:28:34 2002 Page 1

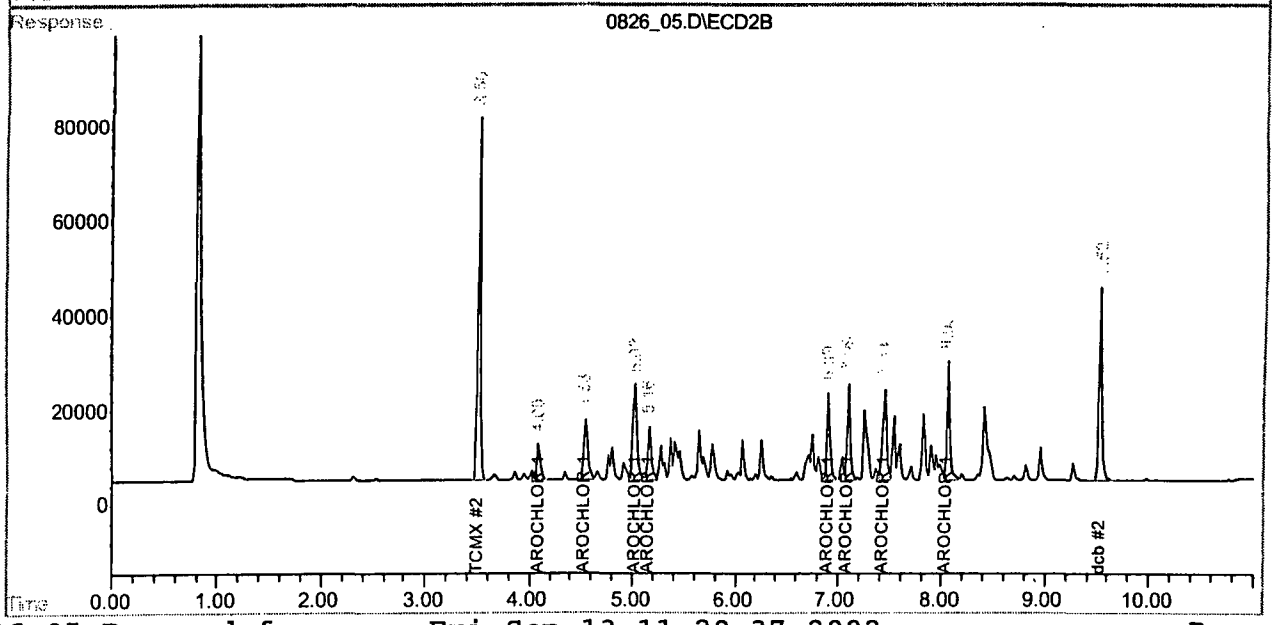
Quantitation Report (QT Reviewed)

Signal #1 : D:\DATA\SVGC#5\082602\0826_05.D\ECD1A.CH Vial: 2
Signal #2 : D:\DATA\SVGC#5\082602\0826_05.D\ECD2B.CH
Acq On : 26 Aug 2002 9:04 am Operator: 308
Sample : 1016/1260 .50ppm Inst : SVGC5
Misc : Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Aug 26 9:53 2002 Quant Results File: PCB8.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB8.M (Chemstation Integrator)
Title :
Last Update : Mon Aug 26 09:03:54 2002
Response via : Multiple Level Calibration
DataAcq Meth : PCB5.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Signal #1 : D:\DATA\SVGC#5\082602\0826_08.D\ECD1A.CH Vial: 3
Signal #2 : D:\DATA\SVGC#5\082602\0826_08.D\ECD2B.CH
Acq On : 26 Aug 2002 9:48 am Operator: 308
Sample : Blank 1x WG81609 15-5 Inst : SVGC5
Misc : surr ESC8082 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Aug 26 10:20 2002 Quant Results File: PCB8.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB8.M (Chemstation Integrator)
Title :
Last Update : Mon Aug 26 10:17:00 2002
Response via : Initial Calibration
DataAcq Meth : PCB7.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) s TCMX	3.61	2115008	0.131 µg/mL
Spiked Amount 0.200 Range 41 - 145		Recovery =	65.50%
10) s DCB	9.26	1540759	0.151 µg/mL
Spiked Amount 0.200 Range 39 - 137		Recovery =	75.50%
12) s TCMX #2	3.50	1787093	0.142 µg/mL
Spiked Amount 0.200 Range 41 - 145		Recovery =	71.00%
21) s dcb #2	9.52	1072346	0.134 µg/mL
Spiked Amount 0.200 Range 39 - 137		Recovery =	67.00%
Target Compounds			
2) m,t AROCHLOR 1016(1)	4.08	71887	0.174 µg/mLm
3) m,t AROCHLOR 1016(2)	4.46	1794	0.002 µg/mLm
4) m,t AROCHLOR 1016(3)	5.15	13253	0.021 µg/mLm
5) m,t AROCHLOR 1016(4)	5.20	1730	0.004 µg/mLm
6) m,t AROCHLOR 1260(1)	6.76	2638	0.003 µg/mLm
7) m,t AROCHLOR 1260(2)	7.14	821	0.002 µg/mLm
8) m,t AROCHLOR 1260(3)	0.00	0	N.D. µg/mL
9) m,t AROCHLOR 1260(4)	7.96	3343	0.003 µg/mLm
13) m,t AROCHLOR 1016(1) #2	4.06	12035	0.039 µg/mL
14) m,t AROCHLOR 1016(2) #2	0.00	0	N.D. µg/mL
15) m,t AROCHLOR 1016(3) #2	0.00	0	N.D. µg/mL
16) m,t AROCHLOR 1016(4) #2	5.17	455	0.001 µg/mLm
17) m,t AROCHLOR 1260(1) #2	0.00	0	N.D. µg/mL
18) m,t AROCHLOR 1260(2) #2	0.00	0	N.D. µg/mL
19) m,t AROCHLOR 1260(3) #2	0.00	0	N.D. µg/mL
20) m,t AROCHLOR 1260(4) #2	8.06	123758	0.122 µg/mL

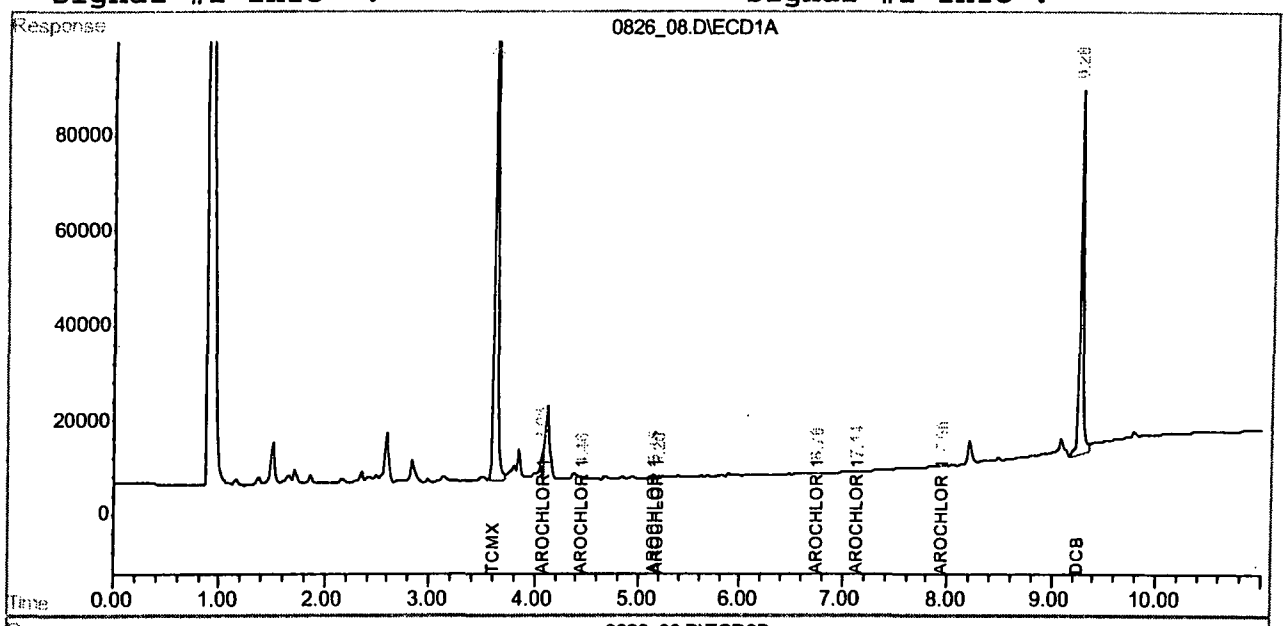
(f)=RT Delta > 1/2 Window (m)=manual int.
0826_08.D envdef.m Fri Sep 13 11:29:06 2002 Page 1

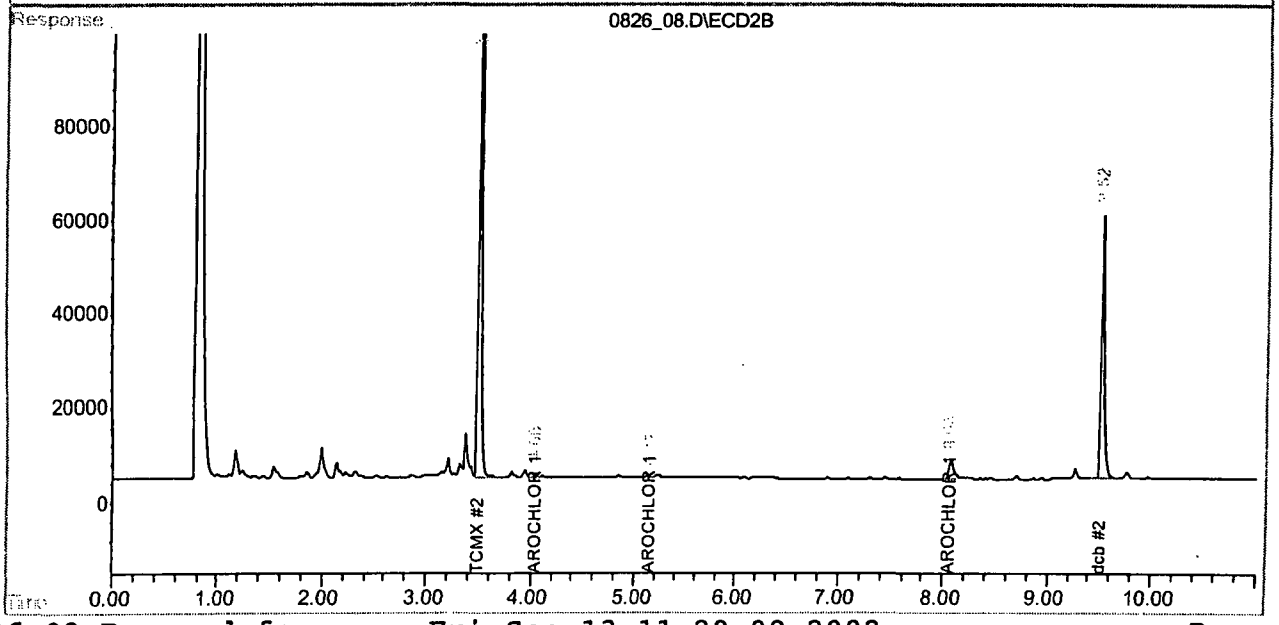
Quantitation Report (QT Reviewed)

Signal #1 : D:\DATA\SVGC#5\082602\0826_08.D\ECD1A.CH Vial: 3
Signal #2 : D:\DATA\SVGC#5\082602\0826_08.D\ECD2B.CH
Acq On : 26 Aug 2002 9:48 am Operator: 308
Sample : Blank 1x WG81609 15-5 Inst : SVGC5
Misc : surr ESC8082 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Aug 26 10:20 2002 Quant Results File: PCB8.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB8.M (Chemstation Integrator)
Title :
Last Update : Mon Aug 26 10:17:00 2002
Response via : Multiple Level Calibration
DataAcq Meth : PCB7.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





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Quantitation Report (QT Reviewed)

Signal #1 : D:\DATA\SVGC#5\082602\0826_09.D\ECD1A.CH Vial: 4
Signal #2 : D:\DATA\SVGC#5\082602\0826_09.D\ECD2B.CH
Acq On : 26 Aug 2002 10:17 am Operator: 308
Sample : L87362-01 20x WG81609 wipe-5 Inst : SVGC5
Misc : mt 8/25/02 Multiplr: 20.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Aug 26 10:31 2002 Quant Results File: PCB8.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB8.M (Chemstation Integrator)
Title :
Last Update : Mon Aug 26 10:17:00 2002
Response via : Initial Calibration
DataAcq Meth : PCB7.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

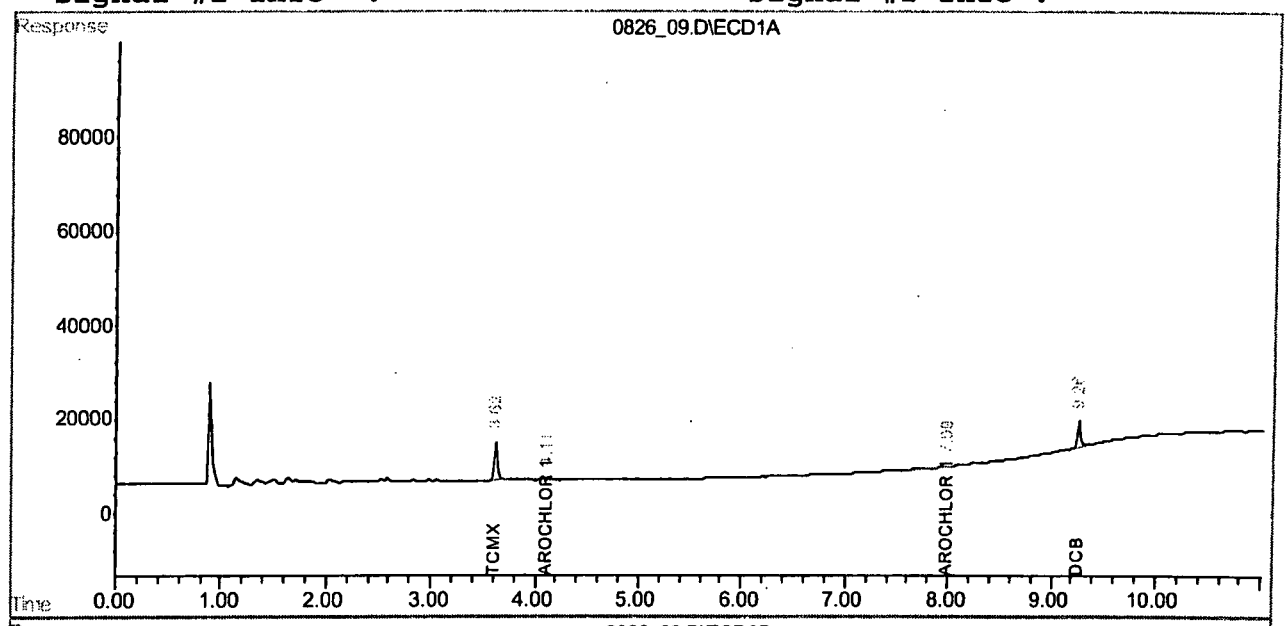
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) s TCMX	3.62	165385	0.205 µg/mL
Spiked Amount 0.200 Range 41 - 145		Recovery =	102.50%
10) s DCB	9.26	101527	0.198 µg/mLm
Spiked Amount 0.200 Range 39 - 137		Recovery =	99.00%
12) s TCMX #2	3.50	117653	0.187 µg/mL
Spiked Amount 0.200 Range 41 - 145		Recovery =	93.50%
21) s dcb #2	9.52	88632	0.221 µg/mL
Spiked Amount 0.200 Range 39 - 137		Recovery =	110.50%
Target Compounds			
2) m,t AROCHLOR 1016(1)	4.11	21080	1.022 µg/mL
3) m,t AROCHLOR 1016(2)	0.00	0	N.D. µg/mL
4) m,t AROCHLOR 1016(3)	0.00	0	N.D. µg/mL
5) m,t AROCHLOR 1016(4)	0.00	0	N.D. µg/mL
6) m,t AROCHLOR 1260(1)	0.00	0	N.D. µg/mL
7) m,t AROCHLOR 1260(2)	0.00	0	N.D. µg/mL
8) m,t AROCHLOR 1260(3)	0.00	0	N.D. µg/mL
9) m,t AROCHLOR 1260(4)	7.99	3987	0.062 µg/mL
13) m,t AROCHLOR 1016(1) #2	0.00	0	N.D. µg/mL
14) m,t AROCHLOR 1016(2) #2	0.00	0	N.D. µg/mL
15) m,t AROCHLOR 1016(3) #2	0.00	0	N.D. µg/mL
16) m,t AROCHLOR 1016(4) #2	0.00	0	N.D. µg/mL
17) m,t AROCHLOR 1260(1) #2	0.00	0	N.D. µg/mL
18) m,t AROCHLOR 1260(2) #2	0.00	0	N.D. µg/mL
19) m,t AROCHLOR 1260(3) #2	0.00	0	N.D. µg/mL
20) m,t AROCHLOR 1260(4) #2	0.00	0	N.D. µg/mL

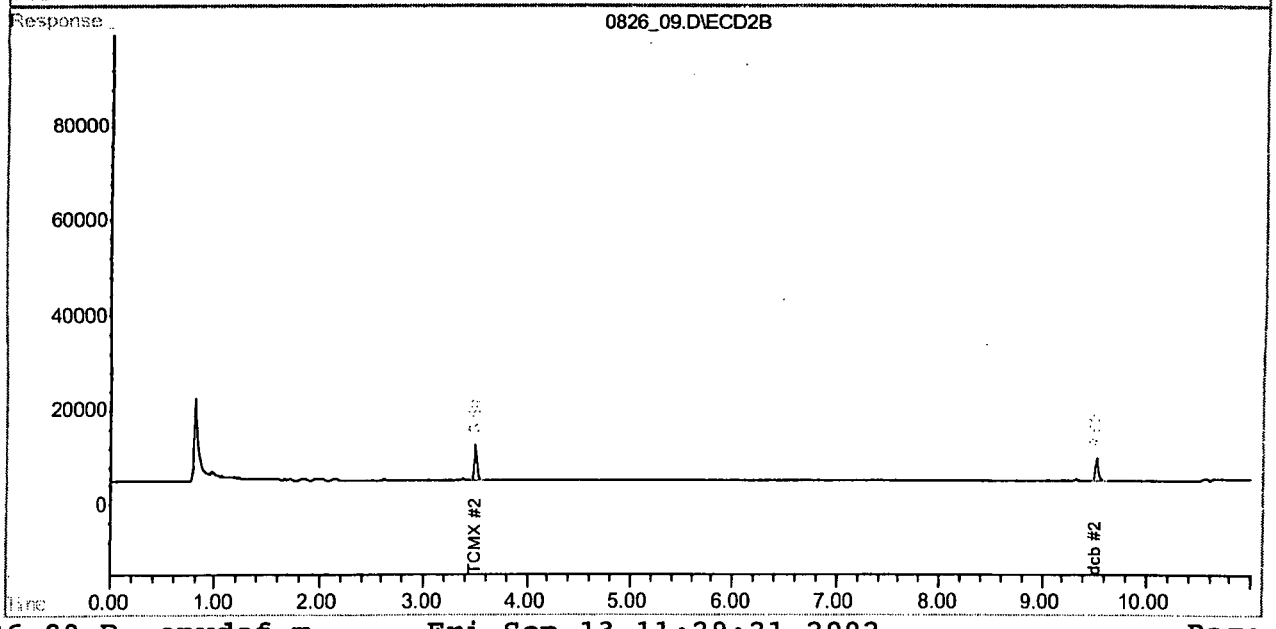
Quantitation Report (QT Reviewed)

Signal #1 : D:\DATA\SVGC#5\082602\0826_09.D\ECD1A.CH Vial: 4
Signal #2 : D:\DATA\SVGC#5\082602\0826_09.D\ECD2B.CH
Acq On : 26 Aug 2002 10:17 am Operator: 308
Sample : L87362-01 20x WG81609 wipe-5 Inst : SVGC5
Misc : mt 8/25/02 Multiplr: 20.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Aug 26 10:31 2002 Quant Results File: PCB8.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB8.M (Chemstation Integrator)
Title :
Last Update : Mon Aug 26 10:17:00 2002
Response via : Multiple Level Calibration
DataAcq Meth : PCB7.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





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Quantitation Report (QT Reviewed)

Signal #1 : D:\DATA\SVGC#5\082602\0826_10.D\ECD1A.CH Vial: 5
Signal #2 : D:\DATA\SVGC#5\082602\0826_10.D\ECD2B.CH
Acq On : 26 Aug 2002 10:32 am Operator: 308
Sample : L87362-02 20x WG81609 wipe-5 Inst : SVGC5
Misc : mt 8/25/02 Multiplr: 20.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Aug 26 10:47 2002 Quant Results File: PCB8.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB8.M (Chemstation Integrator)
Title :
Last Update : Mon Aug 26 10:17:00 2002
Response via : Initial Calibration
DataAcq Meth : PCB7.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) s TCMX	3.62	177015	0.220 µg/mL
Spiked Amount 0.200 Range 41 - 145		Recovery =	110.00%
10) s DCB	9.26	135788	0.265 µg/mLm
Spiked Amount 0.200 Range 39 - 137		Recovery =	132.50%
12) s TCMX #2	3.50	126209	0.201 µg/mL
Spiked Amount 0.200 Range 41 - 145		Recovery =	100.50%
21) s dcb #2	9.52	94855	0.237 µg/mL
Spiked Amount 0.200 Range 39 - 137		Recovery =	118.50%
Target Compounds			
2) m,t AROCHLOR 1016(1)	0.00	0	N.D. µg/mL
3) m,t AROCHLOR 1016(2)	0.00	0	N.D. µg/mL
4) m,t AROCHLOR 1016(3)	0.00	0	N.D. µg/mL
5) m,t AROCHLOR 1016(4)	0.00	0	N.D. µg/mL
6) m,t AROCHLOR 1260(1)	6.76	133910	3.051 µg/mL
7) m,t AROCHLOR 1260(2)	0.00	0	N.D. µg/mL
8) m,t AROCHLOR 1260(3)	7.31	200418	3.247 µg/mL
9) m,t AROCHLOR 1260(4)	0.00	0	N.D. µg/mL
13) m,t AROCHLOR 1016(1) #2	0.00	0	N.D. µg/mL
14) m,t AROCHLOR 1016(2) #2	0.00	0	N.D. µg/mL
15) m,t AROCHLOR 1016(3) #2	0.00	0	N.D. µg/mL
16) m,t AROCHLOR 1016(4) #2	0.00	0	N.D. µg/mL
17) m,t AROCHLOR 1260(1) #2	0.00	0	N.D. µg/mL
18) m,t AROCHLOR 1260(2) #2	0.00	0	N.D. µg/mL
19) m,t AROCHLOR 1260(3) #2	0.00	0	N.D. µg/mL
20) m,t AROCHLOR 1260(4) #2	0.00	0	N.D. µg/mL

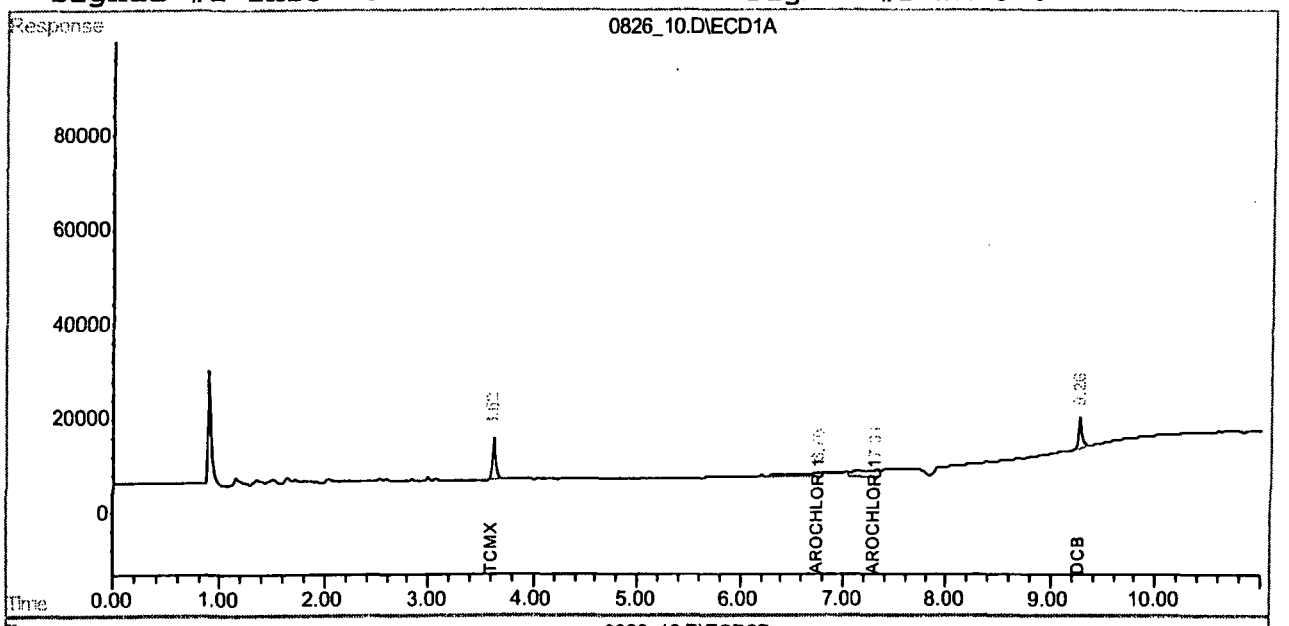
(f)=RT Delta > 1/2 Window (m)=manual int.
0826_10.D envdef.m Fri Sep 13 11:29:39 2002 Page 1

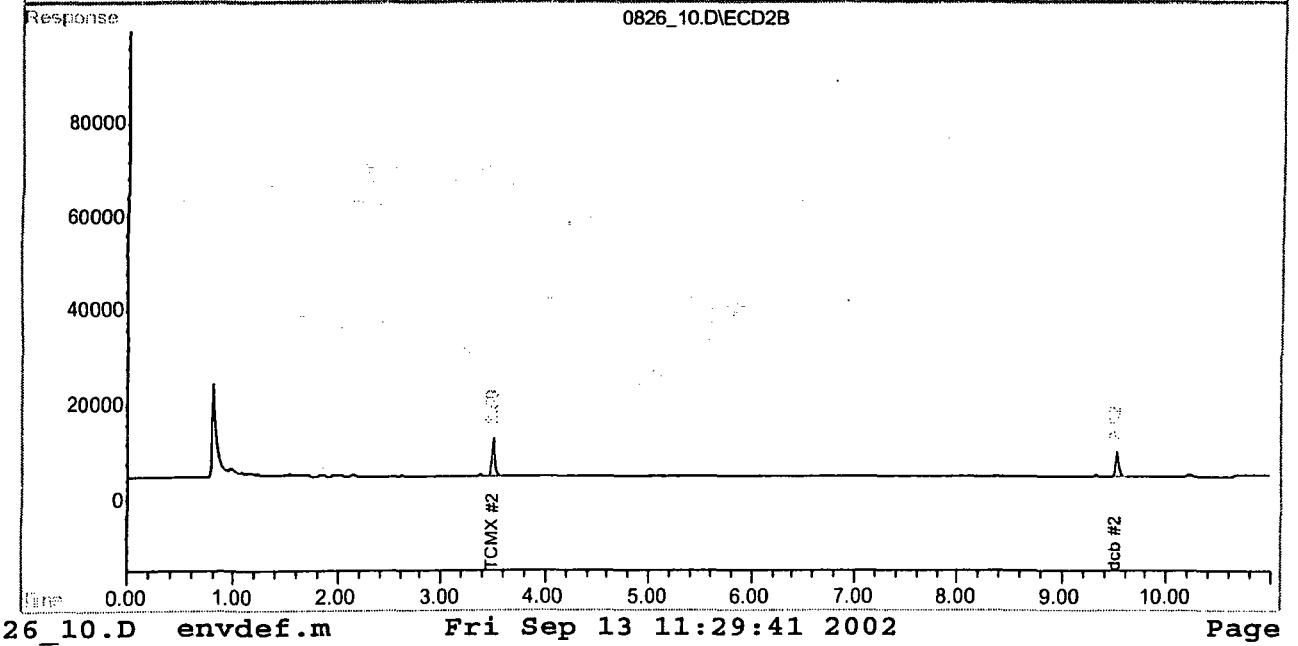
Quantitation Report (QT Reviewed)

Signal #1 : D:\DATA\SVGC#5\082602\0826_10.D\ECD1A.CH Vial: 5
Signal #2 : D:\DATA\SVGC#5\082602\0826_10.D\ECD2B.CH
Acq On : 26 Aug 2002 10:32 am Operator: 308
Sample : L87362-02 20x WG81609 wipe-5 Inst : SVGC5
Misc : mt 8/25/02 Multiplr: 20.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Aug 26 10:47 2002 Quant Results File: PCB8.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB8.M (Chemstation Integrator)
Title :
Last Update : Mon Aug 26 10:17:00 2002
Response via : Multiple Level Calibration
DataAcq Meth : PCB7.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





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Quantitation Report (QT Reviewed)

Signal #1 : D:\DATA\SVGC#5\082602\0826_11.D\ECD1A.CH Vial: 6
Signal #2 : D:\DATA\SVGC#5\082602\0826_11.D\ECD2B.CH
Acq On : 26 Aug 2002 10:46 am Operator: 308
Sample : LCS 1x WG81609 15-5 Inst : SVGC5
Misc : spk ESC7740 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Aug 26 11:14 2002 Quant Results File: PCB8.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB8.M (Chemstation Integrator)
Title :
Last Update : Mon Aug 26 10:17:00 2002
Response via : Initial Calibration
DataAcq Meth : PCB7.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) s TCMX	3.61	2131383	0.132 µg/mL
Spiked Amount 0.200 Range 41 - 145		Recovery =	66.00%
10) s DCB	9.26	1442730	0.141 µg/mL
Spiked Amount 0.200 Range 39 - 137		Recovery =	70.50%
12) s TCMX #2	3.50	1788099	0.142 µg/mL
Spiked Amount 0.200 Range 41 - 145		Recovery =	71.00%
21) s dcb #2	9.51	1103489	0.138 µg/mL
Spiked Amount 0.200 Range 39 - 137		Recovery =	69.00%
Target Compounds			
2) m,t AROCHLOR 1016(1)	4.11	547657	1.327 µg/mL
3) m,t AROCHLOR 1016(2)	4.38f	30841	0.039 µg/mL
4) m,t AROCHLOR 1016(3)	0.00	0	N.D. µg/mL
5) m,t AROCHLOR 1016(4)	0.00	0	N.D. µg/mL
6) m,t AROCHLOR 1260(1)	6.75	377388	0.430 µg/mL
7) m,t AROCHLOR 1260(2)	7.15	254545	0.510 µg/mL
8) m,t AROCHLOR 1260(3)	7.30	528360	0.428 µg/mL
9) m,t AROCHLOR 1260(4)	7.94	632373	0.492 µg/mL
13) m,t AROCHLOR 1016(1) #2	4.06	11925	0.039 µg/mL
14) m,t AROCHLOR 1016(2) #2	0.00	0	N.D. µg/mL
15) m,t AROCHLOR 1016(3) #2	0.00	0	N.D. µg/mL
16) m,t AROCHLOR 1016(4) #2	0.00	0	N.D. µg/mL
17) m,t AROCHLOR 1260(1) #2	6.89	284165	0.374 µg/mL
18) m,t AROCHLOR 1260(2) #2	7.08	308667	0.389 µg/mL
19) m,t AROCHLOR 1260(3) #2	7.43	378807	0.364 µg/mL
20) m,t AROCHLOR 1260(4) #2	8.04	439682	0.433 µg/mL

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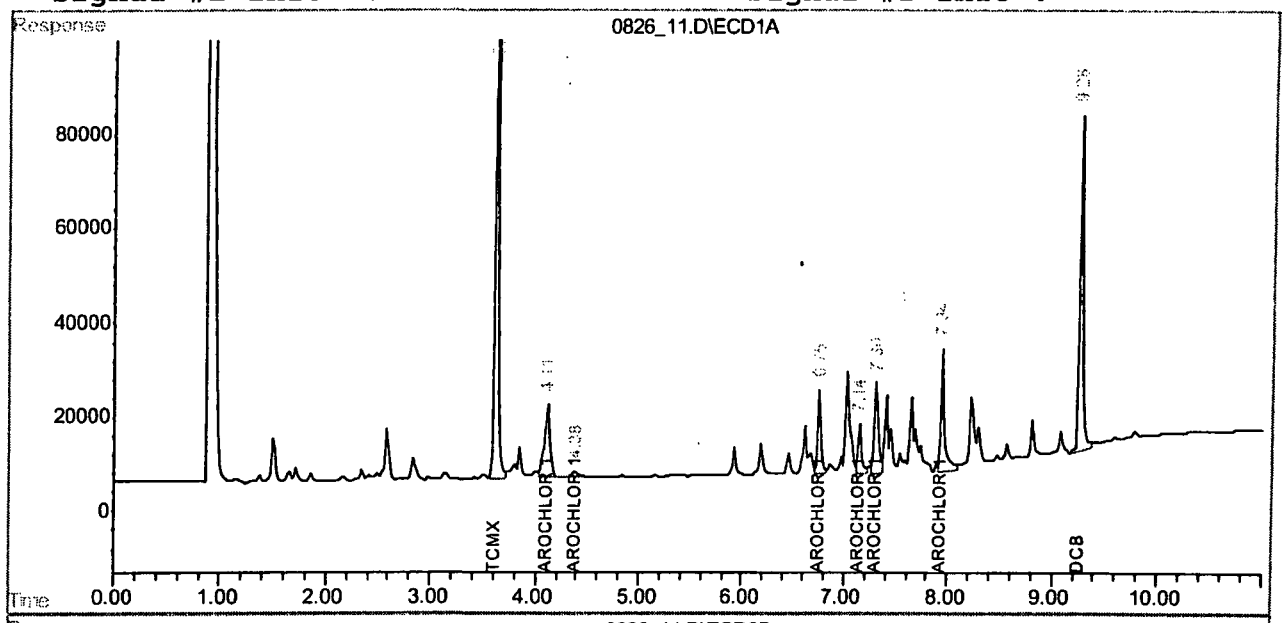
(f)=RT Delta > 1/2 Window (m)=manual int.

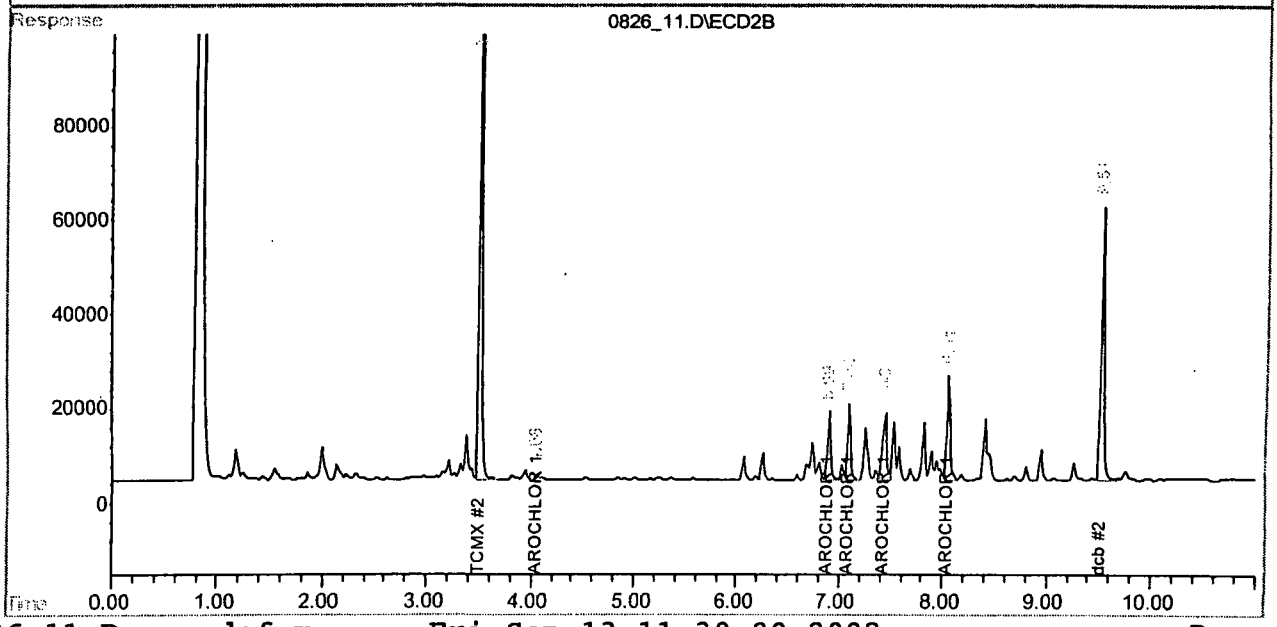
Quantitation Report (QT Reviewed)

Signal #1 : D:\DATA\SVGC#5\082602\0826_11.D\ECD1A.CH Vial: 6
Signal #2 : D:\DATA\SVGC#5\082602\0826_11.D\ECD2B.CH
Acq On : 26 Aug 2002 10:46 am Operator: 308
Sample : LCS 1x WG81609 15-5 Inst : SVGC5
Misc : spk ESC7740 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Aug 26 11:14 2002 Quant Results File: PCB8.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB8.M (Chemstation Integrator)
Title :
Last Update : Mon Aug 26 10:17:00 2002
Response via : Multiple Level Calibration
DataAcq Meth : PCB7.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





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Quantitation Report (QT Reviewed)

Data File : D:\DATA\SVGC#5\082602\0826_14.D\ECD1A.CH Vial: 23
Acq On : 26 Aug 2002 11:30 am Operator: 308
Sample : LCSD 1x WG81609 15-5 Inst : SVGC5
Misc : Multiplr: 1.00
IntFile : events.e

Data File : D:\DATA\SVGC#5\082602\0826_14.D\ECD2B.CH Vial: 23
Acq On : 26 Aug 2002 11:30 am Operator: 308
Sample : LCS pest 1x WG81609 15-5 Inst : SVGC5
Misc : Multiplr: 1.00
IntFile : events2.e
Quant Time: Aug 26 11:43 2002 Quant Results File: PCB8.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB8.M (Chemstation Integrator)
Title :
Last Update : Mon Aug 26 10:17:00 2002
Response via : Initial Calibration
DataAcq Meth : PCB7.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound				R.T.	Response		Conc Units
System Monitoring Compounds							
1) s TCMX				3.61	2147326		0.133 µg/mL
Spiked Amount	0.200	Range	41 - 145		Recovery	=	66.50%
10) s DCB				9.26	1642126		0.160 µg/mL
Spiked Amount	0.200	Range	39 - 137		Recovery	=	80.00%
12) s TCMX #2				3.50	1772873		0.141 µg/mL
Spiked Amount	0.200	Range	41 - 145		Recovery	=	70.50%
21) s dcb #2				9.51	1115695		0.139 µg/mL
Spiked Amount	0.200	Range	39 - 137		Recovery	=	69.50%
Target Compounds							
2) m,t AROCHLOR 1016(1)				4.11	588247		1.425 µg/mL
3) m,t AROCHLOR 1016(2)				4.37f	30260		0.038 µg/mL
4) m,t AROCHLOR 1016(3)				5.14	15598		0.024 µg/mL
5) m,t AROCHLOR 1016(4)				5.14f	15598		0.038 µg/mL
6) m,t AROCHLOR 1260(1)				6.75	373679		0.426 µg/mL
7) m,t AROCHLOR 1260(2)				7.14	213014		0.427 µg/mL
8) m,t AROCHLOR 1260(3)				7.30	496373		0.402 µg/mL
9) m,t AROCHLOR 1260(4)				7.94	627695		0.489 µg/mL
13) m,t AROCHLOR 1016(1) #2				4.06	14610		0.048 µg/mL
14) m,t AROCHLOR 1016(2) #2				4.61f	8559		0.013 µg/mL
15) m,t AROCHLOR 1016(3) #2				0.00	0		N.D. µg/mL
16) m,t AROCHLOR 1016(4) #2				5.23f	10849		0.022 µg/mL
17) m,t AROCHLOR 1260(1) #2				6.89	291954		0.385 µg/mL
18) m,t AROCHLOR 1260(2) #2				7.08	317351		0.400 µg/mL
19) m,t AROCHLOR 1260(3) #2				7.43	392077		0.377 µg/mL
20) m,t AROCHLOR 1260(4) #2				8.04	461920		0.455 µg/mL

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(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : D:\DATA\SVGC#5\082602\0826_14.D\ECD1A.CH Vial: 23
Acq On : 26 Aug 2002 11:30 am Operator: 308
Sample : LCSD 1x WG81609 15-5 Inst : SVGC5
Misc : Multiplr: 1.00
IntFile : events.e

Data File : D:\DATA\SVGC#5\082602\0826_14.D\ECD2B.CH Vial: 23
Acq On : 26 Aug 2002 11:30 am Operator: 308
Sample : LCS pest 1x WG81609 15-5 Inst : SVGC5
Misc : Multiplr: 1.00
IntFile : events2.e
Quant Time: Aug 26 11:43 2002 Quant Results File: PCB8.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB8.M (Chemstation Integrator)
Title :
Last Update : Mon Aug 26 10:17:00 2002
Response via : Initial Calibration
DataAcq Meth : PCB7.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc Units

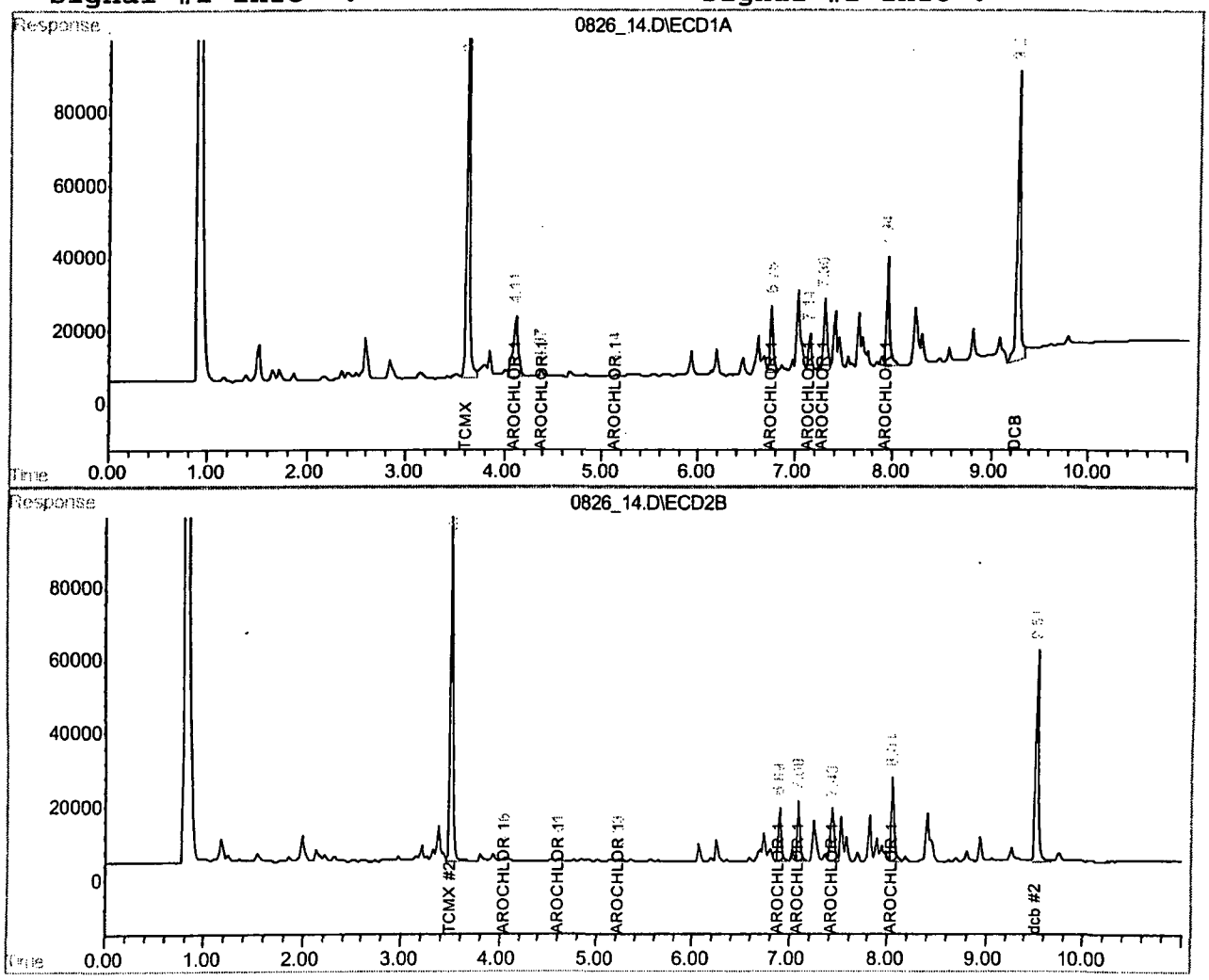
Quantitation Report (QT Reviewed)

Data File : D:\DATA\SVGC#5\082602\0826_14.D\ECD1A.CH Vial: 23
Acq On : 26 Aug 2002 11:30 am Operator: 308
Sample : LCSD 1x WG81609 15-5 Inst : SVGC5
Misc : Multiplr: 1.00
IntFile : events.e

Data File : D:\DATA\SVGC#5\082602\0826_14.D\ECD2B.CH Vial: 23
Acq On : 26 Aug 2002 11:30 am Operator: 308
Sample : LCS pest 1x WG81609 15-5 Inst : SVGC5
Misc : Multiplr: 1.00
IntFile : events2.e
Quant Time: Aug 26 11:43 2002 Quant Results File: PCB8.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB8.M (Chemstation Integrator)
Title :
Last Update : Mon Aug 26 10:17:00 2002
Response via : Multiple Level Calibration
DataAcq Meth : PCB7.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



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Quantitation Report (QT Reviewed)

Signal #1 : D:\DATA\SVGC#5\082602\0826_16.D\ECD1A.CH Vial: 2
Signal #2 : D:\DATA\SVGC#5\082602\0826_16.D\ECD2B.CH
Acq On : 26 Aug 2002 11:45 am Operator: 308
Sample : 1016/1260 .50ppm Inst : SVGC5
Misc : Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Aug 26 13:20 2002 Quant Results File: PCB8.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB8.M (Chemstation Integrator)
Title :
Last Update : Mon Aug 26 10:17:00 2002
Response via : Initial Calibration
DataAcq Meth : PCB5.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) s TCMX	3.61	1524906	0.095 µg/mL
Spiked Amount 0.200 Range 41 - 145		Recovery =	47.50%
10) s DCB	9.26	1053501	0.103 µg/mL
Spiked Amount 0.200 Range 39 - 137		Recovery =	51.50%
12) s TCMX #2	3.50	1158222	0.092 µg/mL
Spiked Amount 0.200 Range 41 - 145		Recovery =	46.00%
21) s dcb #2	9.51	734715	0.092 µg/mL
Spiked Amount 0.200 Range 39 - 137		Recovery =	46.00%
Target Compounds			
2) m,t AROCHLOR 1016(1)	4.05	215088	0.521 µg/mLm
3) m,t AROCHLOR 1016(2)	4.45	409481	0.516 µg/mL
4) m,t AROCHLOR 1016(3)	5.11	317901	0.495 µg/mL
5) m,t AROCHLOR 1016(4)	5.18	214968	0.520 µg/mL
6) m,t AROCHLOR 1260(1)	6.75	409684	0.467 µg/mL
7) m,t AROCHLOR 1260(2)	7.14	243110	0.487 µg/mL
8) m,t AROCHLOR 1260(3)	7.30	542705	0.440 µg/mL
9) m,t AROCHLOR 1260(4)	7.94	623435	0.485 µg/mL
13) m,t AROCHLOR 1016(1) #2	4.08	144500	0.474 µg/mL
14) m,t AROCHLOR 1016(2) #2	4.53	310207	0.457 µg/mL
15) m,t AROCHLOR 1016(3) #2	5.01	518013	0.466 µg/mL
16) m,t AROCHLOR 1016(4) #2	5.15	230022	0.467 µg/mL
17) m,t AROCHLOR 1260(1) #2	6.89	349254	0.460 µg/mL
18) m,t AROCHLOR 1260(2) #2	7.08	364333	0.459 µg/mL
19) m,t AROCHLOR 1260(3) #2	7.43	485445	0.467 µg/mL
20) m,t AROCHLOR 1260(4) #2	8.04	475922	0.469 µg/mL

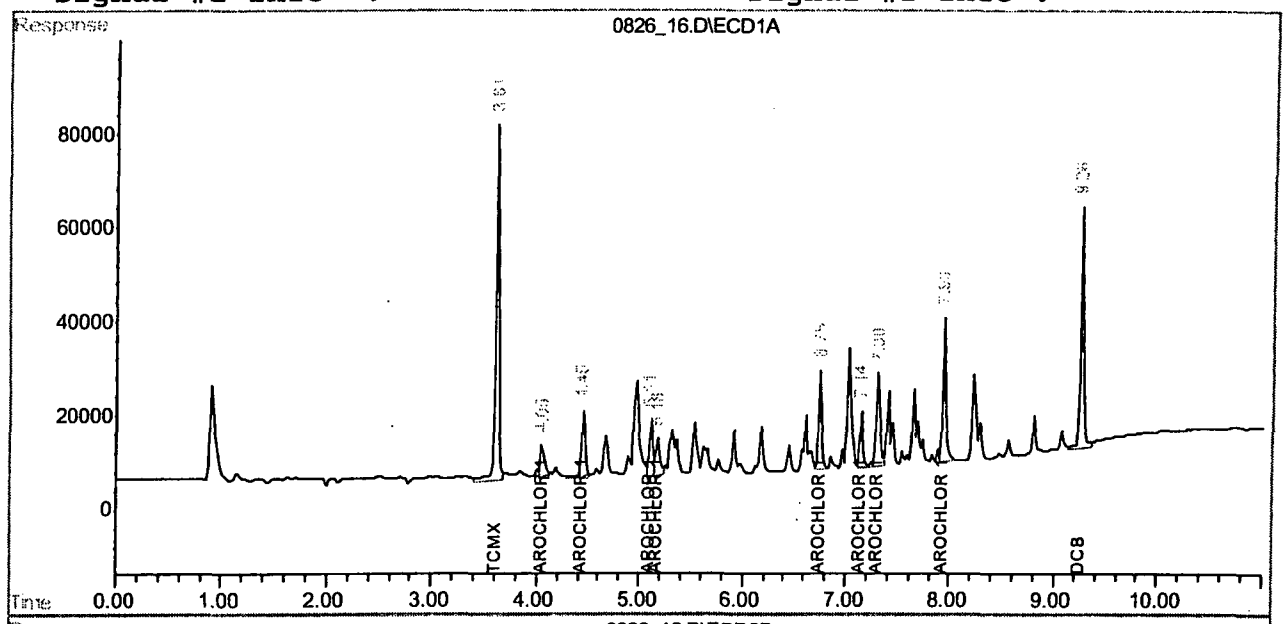
(f)=RT Delta > 1/2 Window (m)=manual int.
0826_16.D envdef.m Fri Sep 13 11:30:34 2002 Page 1

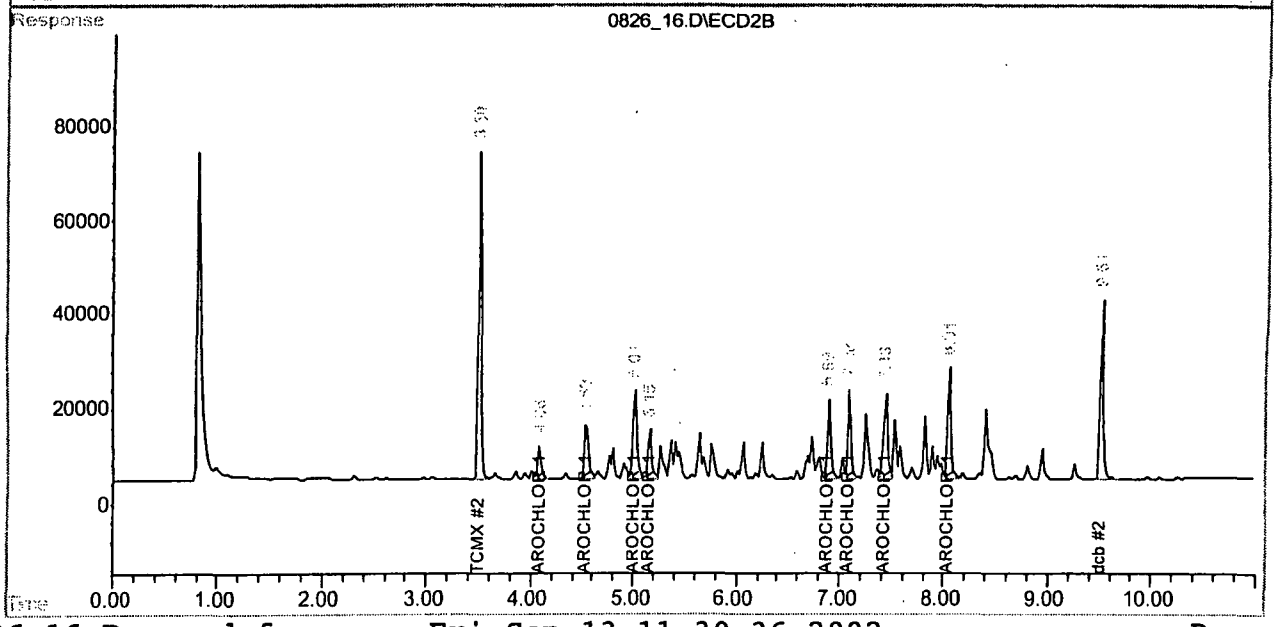
Quantitation Report (QT Reviewed)

Signal #1 : D:\DATA\SVGC#5\082602\0826_16.D\ECD1A.CH Vial: 2
Signal #2 : D:\DATA\SVGC#5\082602\0826_16.D\ECD2B.CH
Acq On : 26 Aug 2002 11:45 am Operator: 308
Sample : 1016/1260 .50ppm Inst : SVGC5
Misc : Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Aug 26 13:20 2002 Quant Results File: PCB8.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB8.M (Chemstation Integrator)
Title :
Last Update : Mon Aug 26 10:17:00 2002
Response via : Multiple Level Calibration
DataAcq Meth : PCB5.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





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Quantitation Report (QT Reviewed)

Signal #1 : D:\DATA\SVGC#5\082602\0826_17.D\ECD1A.CH Vial: 8
Signal #2 : D:\DATA\SVGC#5\082602\0826_17.D\ECD2B.CH
Acq On : 26 Aug 2002 11:59 am Operator: 308
Sample : MS 1x WG81609 L87378-07 15-5 Inst : SVGC5
Misc : Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Aug 26 13:20 2002 Quant Results File: PCB8.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB8.M (Chemstation Integrator)
Title :
Last Update : Mon Aug 26 10:17:00 2002
Response via : Initial Calibration
DataAcq Meth : PCB5.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) s TCMX	3.61	1951290	0.121 µg/mL
Spiked Amount 0.200 Range 41 - 145		Recovery =	60.50%
10) s DCB	9.26	1631078	0.159 µg/mL
Spiked Amount 0.200 Range 39 - 137		Recovery =	79.50%
12) s TCMX #2	3.50	1615521	0.129 µg/mL
Spiked Amount 0.200 Range 41 - 145		Recovery =	64.50%
21) s dcb #2	9.51	1108124	0.138 µg/mL
Spiked Amount 0.200 Range 39 - 137		Recovery =	69.00%
Target Compounds			
2) m,t AROCHLOR 1016(1)	4.11	646764	1.567 µg/mL
3) m,t AROCHLOR 1016(2)	4.37f	61074	0.077 µg/mL
4) m,t AROCHLOR 1016(3)	5.16	148704	0.232 µg/mL
5) m,t AROCHLOR 1016(4)	5.16	148704	0.360 µg/mL
6) m,t AROCHLOR 1260(1)	6.75	416141	0.474 µg/mL
7) m,t AROCHLOR 1260(2)	7.14	211518	0.424 µg/mL
8) m,t AROCHLOR 1260(3)	7.29	556963	0.451 µg/mL
9) m,t AROCHLOR 1260(4)	7.93	616364	0.480 µg/mL
13) m,t AROCHLOR 1016(1) #2	4.06	79071	0.259 µg/mL
14) m,t AROCHLOR 1016(2) #2	4.63f	59358	0.087 µg/mL
15) m,t AROCHLOR 1016(3) #2	5.05	51952	0.047 µg/mL
16) m,t AROCHLOR 1016(4) #2	5.18	17745	0.036 µg/mL
17) m,t AROCHLOR 1260(1) #2	6.89	279492	0.368 µg/mL
18) m,t AROCHLOR 1260(2) #2	7.08	329114	0.415 µg/mL
19) m,t AROCHLOR 1260(3) #2	7.43	393683	0.378 µg/mL
20) m,t AROCHLOR 1260(4) #2	8.04	422950	0.417 µg/mL

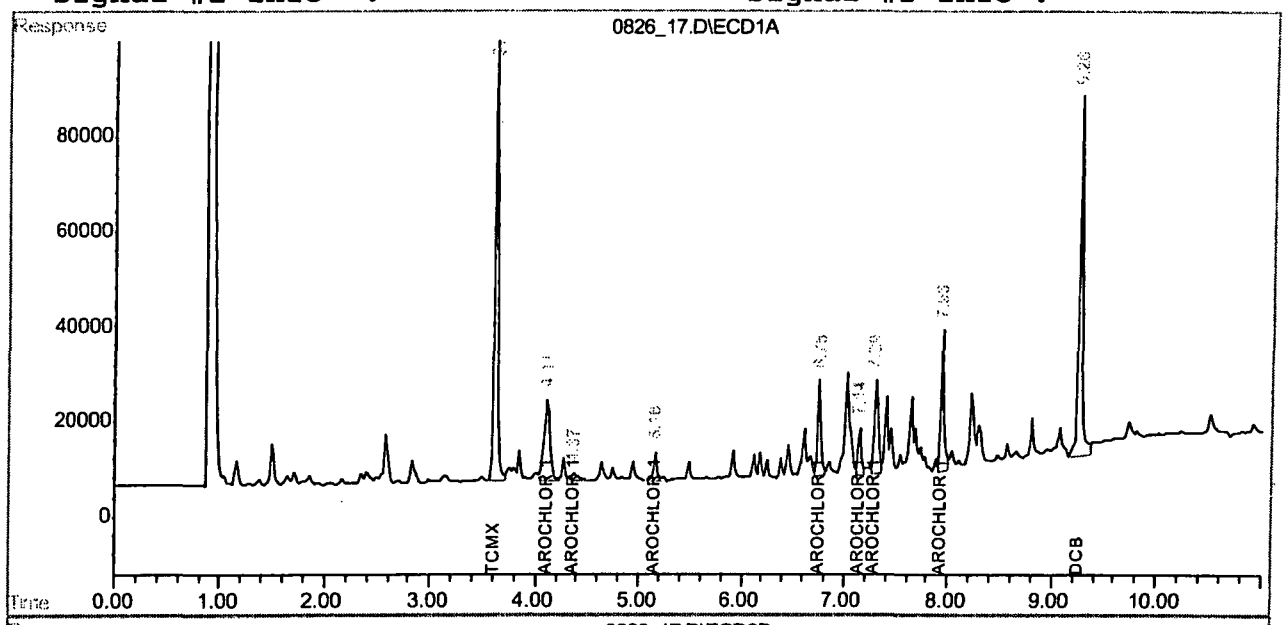
(f)=RT Delta > 1/2 Window (m)=manual int.
0826_17.D envdef.m Fri Sep 13 11:30:51 2002 Page 1

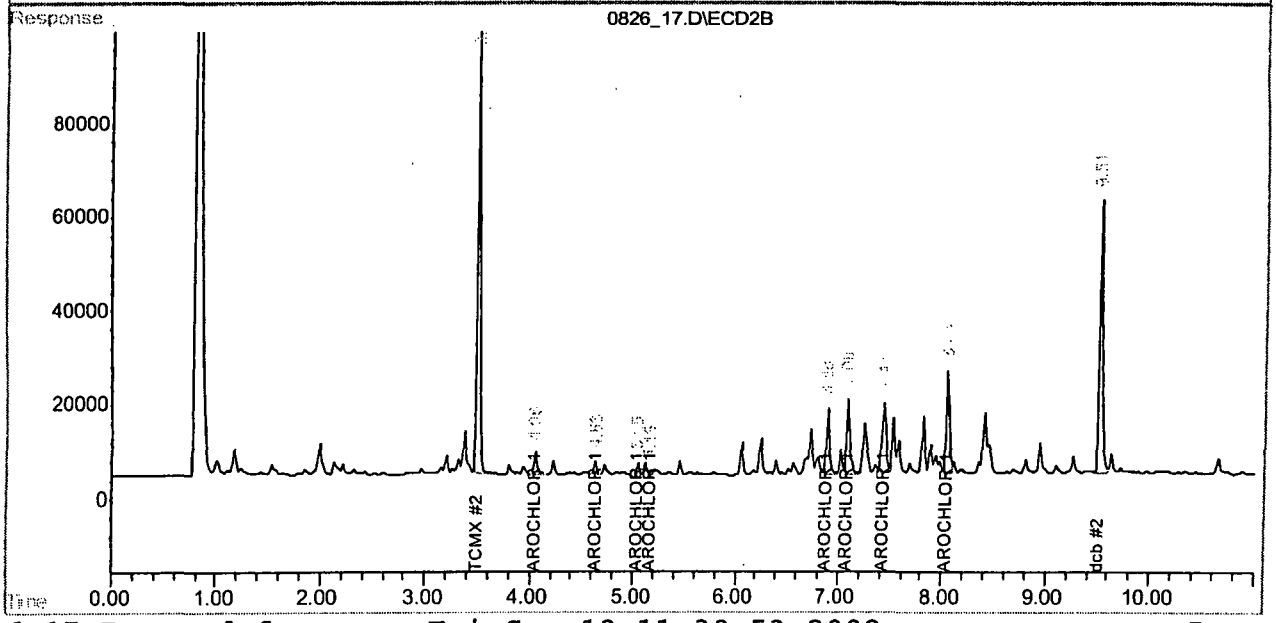
Quantitation Report (QT Reviewed)

Signal #1 : D:\DATA\SVGC#5\082602\0826_17.D\ECD1A.CH Vial: 8
Signal #2 : D:\DATA\SVGC#5\082602\0826_17.D\ECD2B.CH
Acq On : 26 Aug 2002 11:59 am Operator: 308
Sample : MS 1x WG81609 L87378-07 15-5 Inst : SVGC5
Misc : Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Aug 26 13:20 2002 Quant Results File: PCB8.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB8.M (Chemstation Integrator)
Title :
Last Update : Mon Aug 26 10:17:00 2002
Response via : Multiple Level Calibration
DataAcq Meth : PCB5.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





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Quantitation Report (QT Reviewed)

Signal #1 : D:\DATA\SVGC#5\082602\0826_18.D\ECD1A.CH Vial: 9
Signal #2 : D:\DATA\SVGC#5\082602\0826_18.D\ECD2B.CH
Acq On : 26 Aug 2002 12:14 pm Operator: 308
Sample : MSD 1x WG81609 L87378-07 15-5 Inst : SVGC5
Misc : Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Aug 26 13:21 2002 Quant Results File: PCB8.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB8.M (Chemstation Integrator)
Title :
Last Update : Mon Aug 26 10:17:00 2002
Response via : Initial Calibration
DataAcq Meth : PCB5.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound				R.T.	Response		Conc Units
System Monitoring Compounds							
1) s TCMX				3.61	1807023		0.112 µg/mL
Spiked Amount	0.200	Range	41 - 145		Recovery	=	56.00%
10) s DCB				9.26	1430731		0.140 µg/mL
Spiked Amount	0.200	Range	39 - 137		Recovery	=	70.00%
12) s TCMX #2				3.50	1501300		0.119 µg/mL
Spiked Amount	0.200	Range	41 - 145		Recovery	=	59.50%
21) s dcb #2				9.51	1089795		0.136 µg/mL
Spiked Amount	0.200	Range	39 - 137		Recovery	=	68.00%
Target Compounds							
2) m,t AROCHLOR 1016(1)				4.11	545682		1.322 µg/mL
3) m,t AROCHLOR 1016(2)				4.37f	48745		0.061 µg/mL
4) m,t AROCHLOR 1016(3)				5.15	62784		0.098 µg/mL
5) m,t AROCHLOR 1016(4)				5.24	21547		0.052 µg/mL
6) m,t AROCHLOR 1260(1)				6.75	325490		0.371 µg/mL
7) m,t AROCHLOR 1260(2)				7.14	177502		0.356 µg/mL
8) m,t AROCHLOR 1260(3)				7.29	452045		0.366 µg/mL
9) m,t AROCHLOR 1260(4)				7.93	559306		0.436 µg/mL
13) m,t AROCHLOR 1016(1) #2				4.05	15431		0.051 µg/mL
14) m,t AROCHLOR 1016(2) #2				0.00	0		N.D. µg/mL
15) m,t AROCHLOR 1016(3) #2				0.00	0		N.D. µg/mL
16) m,t AROCHLOR 1016(4) #2				5.18	12771		0.026 µg/mL
17) m,t AROCHLOR 1260(1) #2				6.88	268367		0.353 µg/mL
18) m,t AROCHLOR 1260(2) #2				7.08	296120		0.373 µg/mL
19) m,t AROCHLOR 1260(3) #2				7.43	369643		0.355 µg/mL
20) m,t AROCHLOR 1260(4) #2				8.04	410778		0.405 µg/mL

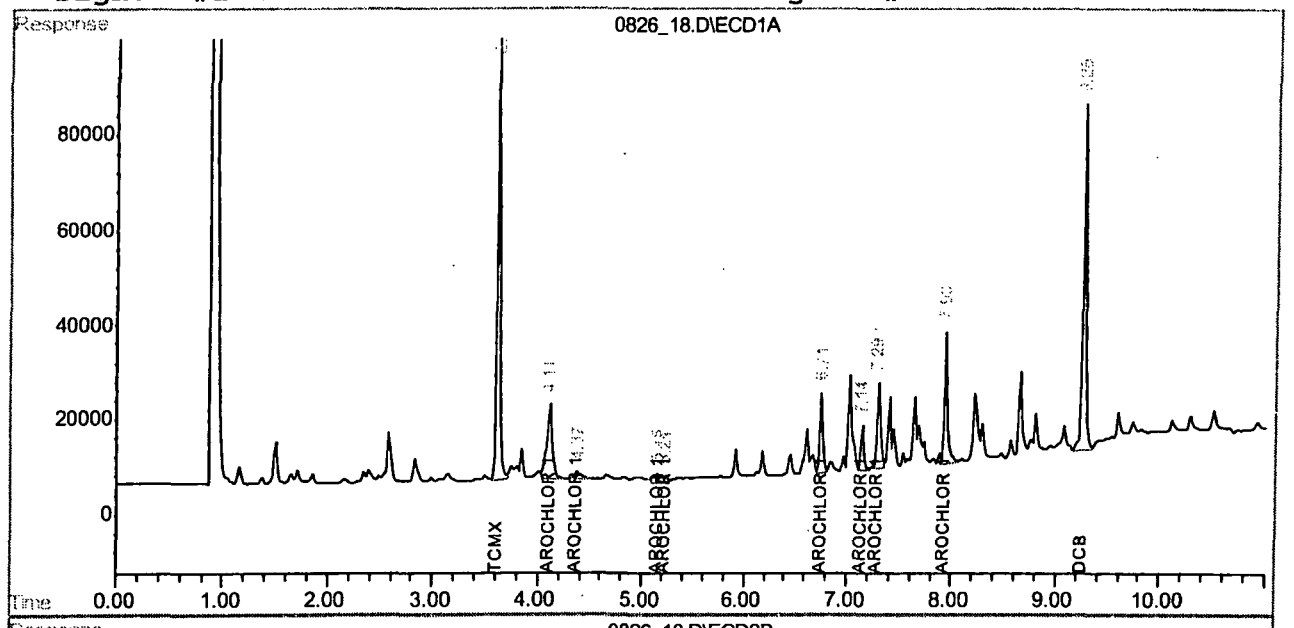
(f)=RT Delta > 1/2 Window (m)=manual int.
0826_18.D envdef.m Fri Sep 13 11:31:08 2002 Page 1

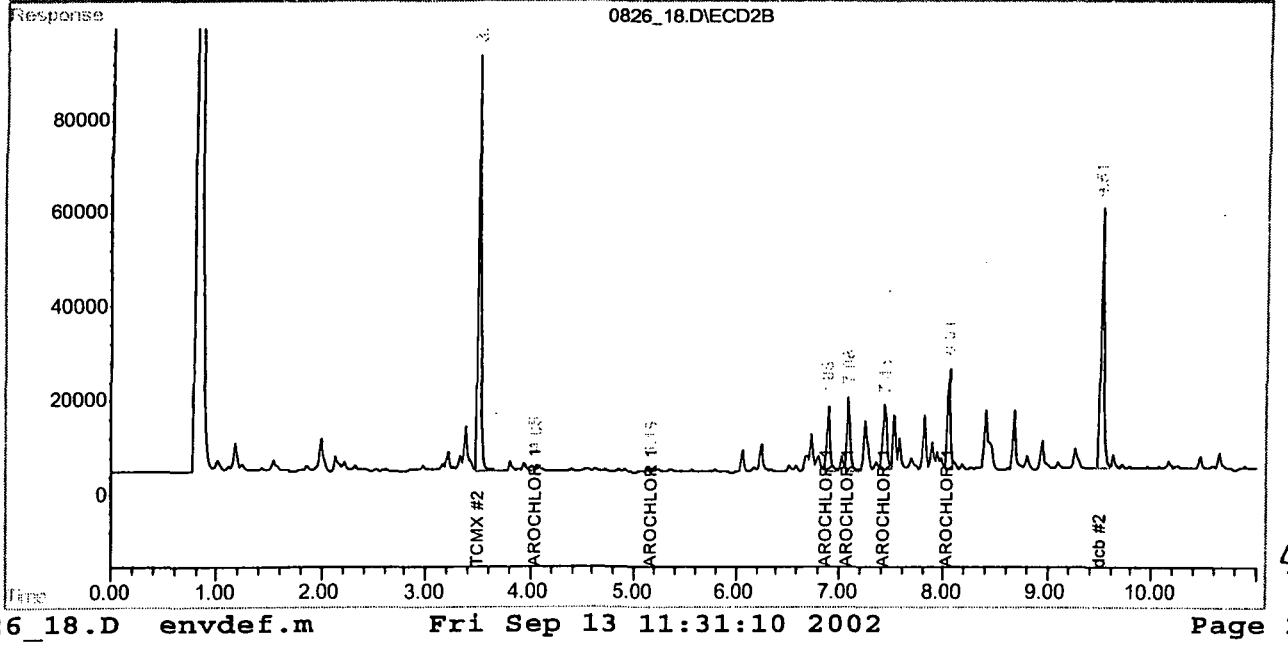
Quantitation Report (QT Reviewed)

Signal #1 : D:\DATA\SVGC#5\082602\0826_18.D\ECD1A.CH Vial: 9
Signal #2 : D:\DATA\SVGC#5\082602\0826_18.D\ECD2B.CH
Acq On : 26 Aug 2002 12:14 pm Operator: 308
Sample : MSD 1x WG81609 L87378-07 15-5 Inst : SVGC5
Misc : Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Aug 26 13:21 2002 Quant Results File: PCB8.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB8.M (Chemstation Integrator)
Title :
Last Update : Mon Aug 26 10:17:00 2002
Response via : Multiple Level Calibration
DataAcq Meth : PCB5.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





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Quantitation Report (QT Reviewed)

Signal #1 : D:\DATA\SVGC#5\082602\0826_35.D\ECD1A.CH Vial: 2
Signal #2 : D:\DATA\SVGC#5\082602\0826_35.D\ECD2B.CH
Acq On : 26 Aug 2002 4:32 pm Operator: 308
Sample : 1016/1260 .50ppm Inst : SVGC5
Misc : Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Aug 26 16:44 2002 Quant Results File: PCB8.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB8.M (Chemstation Integrator)
Title :
Last Update : Mon Aug 26 10:17:00 2002
Response via : Initial Calibration
DataAcq Meth : PCB5.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) s TCMX	3.61	1466553	0.091 µg/mL
Spiked Amount 0.200 Range 41 - 145	Recovery =	45.50%	
10) s DCB	9.26	1117801	0.109 µg/mL
Spiked Amount 0.200 Range 39 - 137	Recovery =	54.50%	
12) s TCMX #2	3.50	1140968	0.091 µg/mL
Spiked Amount 0.200 Range 41 - 145	Recovery =	45.50%	
21) s dcb #2	9.51	745997	0.093 µg/mL
Spiked Amount 0.200 Range 39 - 137	Recovery =	46.50%	
Target Compounds			
2) m,t AROCHLOR 1016(1)	4.04	228226	0.553 µg/mLm
3) m,t AROCHLOR 1016(2)	4.44	385531	0.486 µg/mL
4) m,t AROCHLOR 1016(3)	5.10	294452	0.459 µg/mL
5) m,t AROCHLOR 1016(4)	5.17	196372	0.475 µg/mL
6) m,t AROCHLOR 1260(1)	6.74	381984	0.435 µg/mL
7) m,t AROCHLOR 1260(2)	7.14	245478	0.492 µg/mL
8) m,t AROCHLOR 1260(3)	7.29	503624	0.408 µg/mL
9) m,t AROCHLOR 1260(4)	7.93	628682	0.490 µg/mL
13) m,t AROCHLOR 1016(1) #2	4.08	142352	0.467 µg/mL
14) m,t AROCHLOR 1016(2) #2	4.53	302936	0.446 µg/mL
15) m,t AROCHLOR 1016(3) #2	5.01	507504	0.456 µg/mL
16) m,t AROCHLOR 1016(4) #2	5.15	221518	0.449 µg/mL
17) m,t AROCHLOR 1260(1) #2	6.88	330494	0.435 µg/mL
18) m,t AROCHLOR 1260(2) #2	7.08	355613	0.448 µg/mL
19) m,t AROCHLOR 1260(3) #2	7.43	480233	0.462 µg/mL
20) m,t AROCHLOR 1260(4) #2	8.04	477505	0.470 µg/mL

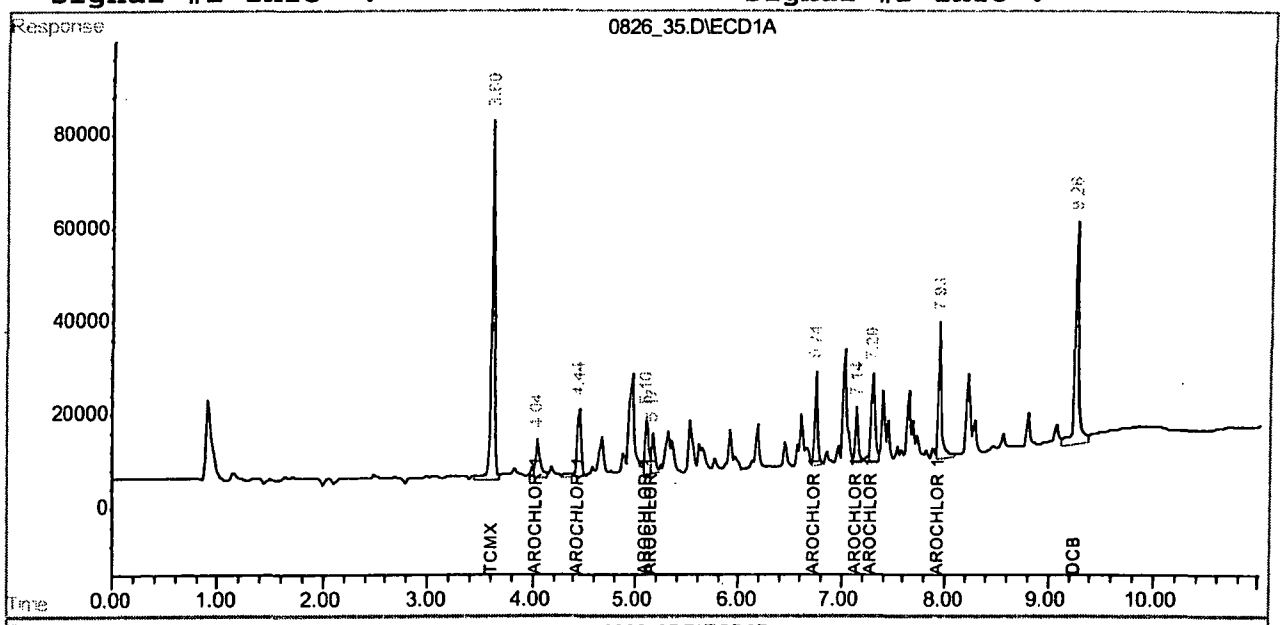
(f)=RT Delta > 1/2 Window (m)=manual int.
0826_35.D envdef.m Fri Sep 13 11:31:33 2002 Page 1

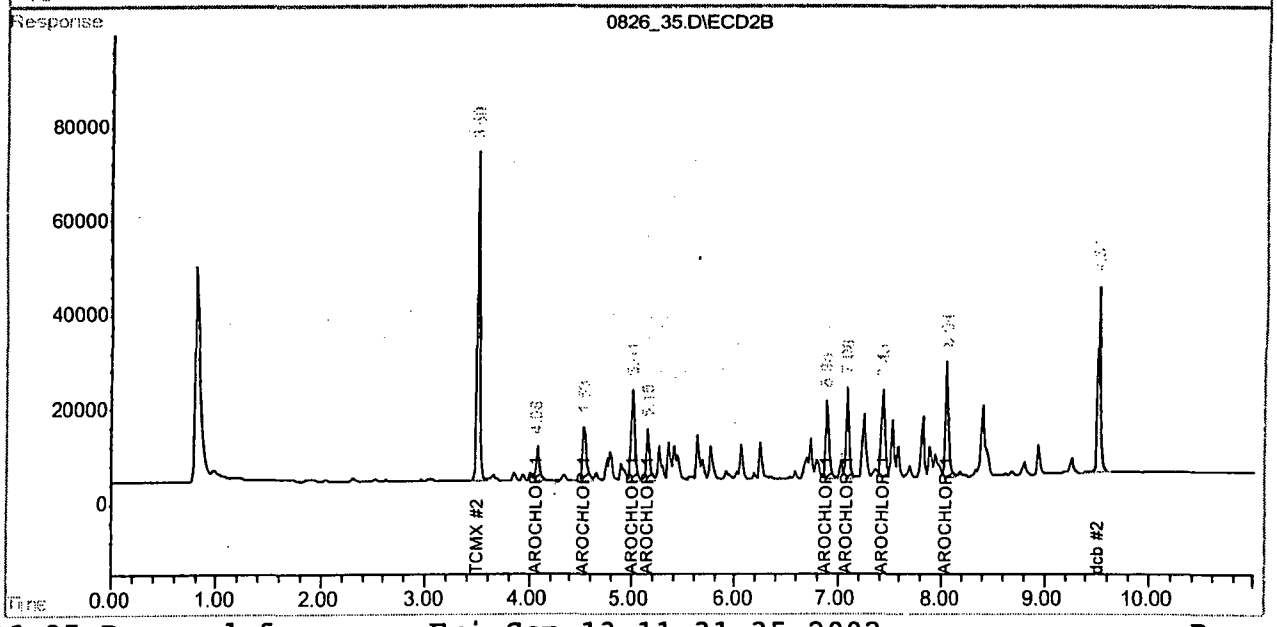
Quantitation Report (QT Reviewed)

Signal #1 : D:\DATA\SVGC#5\082602\0826_35.D\ECD1A.CH Vial: 2
Signal #2 : D:\DATA\SVGC#5\082602\0826_35.D\ECD2B.CH
Acq On : 26 Aug 2002 4:32 pm Operator: 308
Sample : 1016/1260 .50ppm Inst : SVGC5
Misc : Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Aug 26 16:44 2002 Quant Results File: PCB8.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB8.M (Chemstation Integrator)
Title :
Last Update : Mon Aug 26 10:17:00 2002
Response via : Multiple Level Calibration
DataAcq Meth : PCB5.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Calibration Standards

Response Factor Report SVGC5

Method : C:\HPCHEM\1\METHODS\PCB8.M (Chemstation Integrator)
Title :
Last Update : Mon Aug 26 10:17:00 2002

8/26/02 KK

Calibration Files
1 =0826_02A.D 2 =0826_03.D 3 =0826_04.D
4 =0826_05.D 5 =0826_06.D 6 =0826_07.D

KPS 8/26/02

		Compound	1	2	3	4	5	6	Avg		%RSD
1)	s	TCMX	1.793	1.751	1.698	1.593	1.381	1.458	1.612	E7	10.26
2)	m,t	AROCHLOR 1016(1)	3.871	3.655	4.342	4.730	3.901	4.261	4.127	E5	9.49
3)	m,t	AROCHLOR 1016(2)	8.236	8.325	8.440	8.101	7.033	7.460	7.933	E5	7.06
4)	m,t	AROCHLOR 1016(3)	6.651	6.673	6.778	6.594	5.730	6.104	6.422	E5	6.43
5)	m,t	AROCHLOR 1016(4)	3.922	4.117	4.390	4.360	3.851	4.149	4.132	E5	5.32
6)	m,t	AROCHLOR 1260(1)	9.373	9.471	9.167	8.818	7.693	8.138	8.777	E5	8.18
7)	m,t	AROCHLOR 1260(2)	4.576	4.905	5.112	5.243	4.900	5.222	4.993	E5	5.07
8)	m,t	AROCHLOR 1260(3)	1.234	1.260	1.283	1.265	1.143	1.221	1.234	E6	4.05
9)	m,t	AROCHLOR 1260(4)	1.303	1.277	1.331	1.340	1.132	1.321	1.284	E6	6.06
10)	s	DCB	1.113	1.072	1.039	1.034	0.878	1.006	1.024	E7	7.85

Signal #2 Calibration Files
1 =0826_02A.D 2 =0826_03.D 3 =0826_04.D
4 =0826_05.D 5 =0826_06.D 6 =0826_07.D

		Compound	1	2	3	4	5	6	Avg		%RSD
1)	s	TCMX	1.313	1.299	1.294	1.271	1.127	1.234	1.256	E7	5.50
2)	m,t	AROCHLOR 1016(1)	3.123	3.279	3.173	3.109	2.672	2.930	3.048	E5	7.10
3)	m,t	AROCHLOR 1016(2)	7.286	7.254	7.089	6.821	5.926	6.382	6.793	E5	7.97
4)	m,t	AROCHLOR 1016(3)	1.130	1.197	1.145	1.128	0.991	1.081	1.112	E6	6.29
5)	m,t	AROCHLOR 1016(4)	4.866	5.307	5.097	5.029	4.436	4.843	4.930	E5	5.99
6)	m,t	AROCHLOR 1260(1)	8.229	8.208	7.749	7.592	6.589	7.183	7.592	E5	8.30
7)	m,t	AROCHLOR 1260(2)	8.793	8.719	7.884	7.870	6.859	7.481	7.934	E5	9.30
8)	m,t	AROCHLOR 1260(3)	1.129	1.135	1.047	1.030	0.903	0.998	1.040	E6	8.33
9)	m,t	AROCHLOR 1260(4)	1.122	1.097	1.016	1.001	0.881	0.975	1.015	E6	8.56
10)	s	dcb	9.655	8.574	7.924	7.714	6.722	7.430	8.003	E6	12.64

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(#) = Out of Range

Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\082602\0826_02A.D\ECD1A.CH Vial: 15
Signal #2 : C:\HPCHEM\1\DATA\082602\0826_02A.D\ECD2B.CH
Acq On : 26 Aug 2002 10:03 am Operator: 308
Sample : 1016/1260 .05ppm Inst : SVGC5
Misc : Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Aug 26 10:16 2002 Quant Results File: PCB8.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB8.M (Chemstation Integrator)
Title :
Last Update : Mon Aug 26 10:08:06 2002
Response via : Initial Calibration
DataAcq Meth : PCB5.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) s TCMX	3.62	179262	0.010 µg/mL
Spiked Amount 0.200	Range 41 - 145	Recovery =	5.00%#
10) s DCB	9.26	111304	0.010 µg/mLm
Spiked Amount 0.200	Range 39 - 137	Recovery =	5.00%#
12) s TCMX #2	3.50	131330	0.011 µg/mL
Spiked Amount 0.200	Range 41 - 145	Recovery =	5.50%#
21) s dcb #2	9.52	96554	0.013 µg/mL
Spiked Amount 0.200	Range 39 - 137	Recovery =	6.50%#
Target Compounds			
2) m,t AROCHLOR 1016(1)	4.07	19354	0.043 µg/mL
3) m,t AROCHLOR 1016(2)	4.46	41182	0.021 µg/mL
4) m,t AROCHLOR 1016(3)	5.13	33256	0.049 µg/mL
5) m,t AROCHLOR 1016(4)	5.19	19609	0.046 µg/mL
6) m,t AROCHLOR 1260(1)	6.75	46863	0.022 µg/mL
7) m,t AROCHLOR 1260(2)	7.15	22878	0.042 µg/mL
8) m,t AROCHLOR 1260(3)	7.31	61708	0.046 µg/mL
9) m,t AROCHLOR 1260(4)	7.94	65169	0.047 µg/mL
13) m,t AROCHLOR 1016(1) #2	4.08	15614	0.051 µg/mL
14) m,t AROCHLOR 1016(2) #2	4.53	36432	0.054 µg/mL
15) m,t AROCHLOR 1016(3) #2	5.02	56491	0.051 µg/mL
16) m,t AROCHLOR 1016(4) #2	5.16	24332	0.049 µg/mL
17) m,t AROCHLOR 1260(1) #2	6.89	41146	0.055 µg/mL
18) m,t AROCHLOR 1260(2) #2	7.09	43966	0.057 µg/mL
19) m,t AROCHLOR 1260(3) #2	7.44	56451	0.055 µg/mL
20) m,t AROCHLOR 1260(4) #2	8.04	56093	0.056 µg/mL

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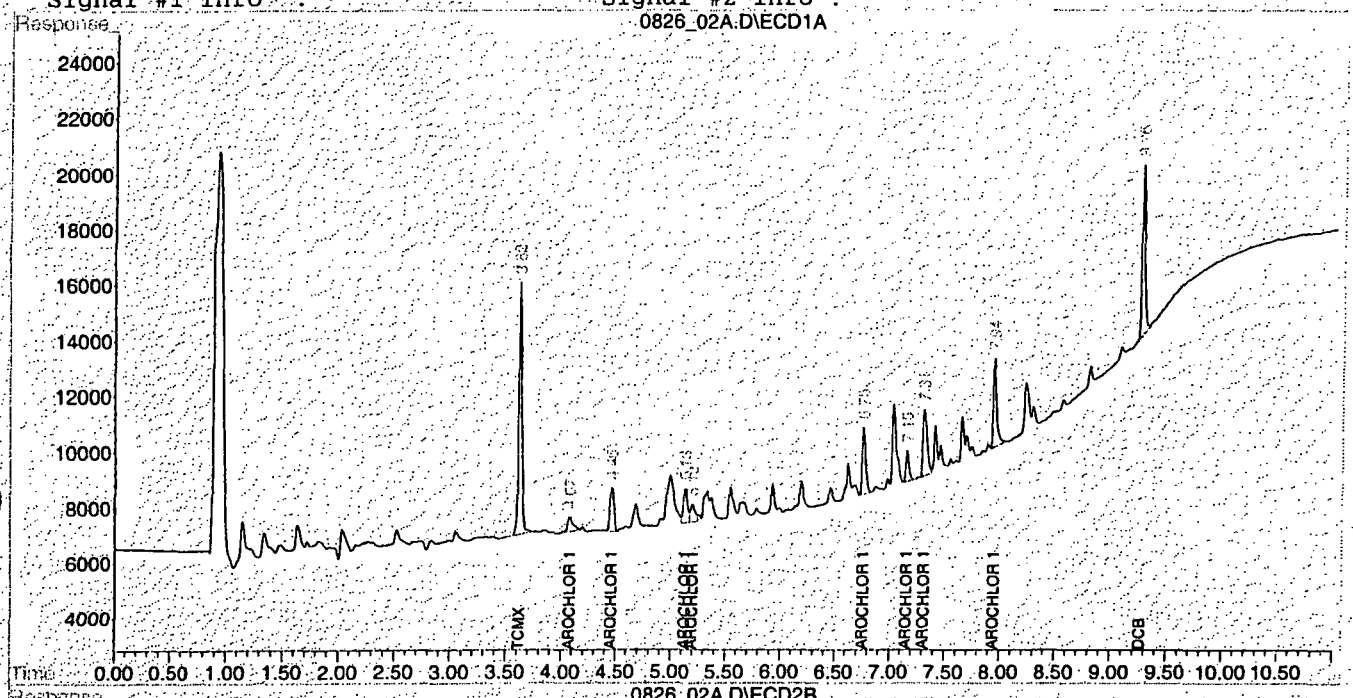
(f)=RT Delta > 1/2 Window (m)=manual int.

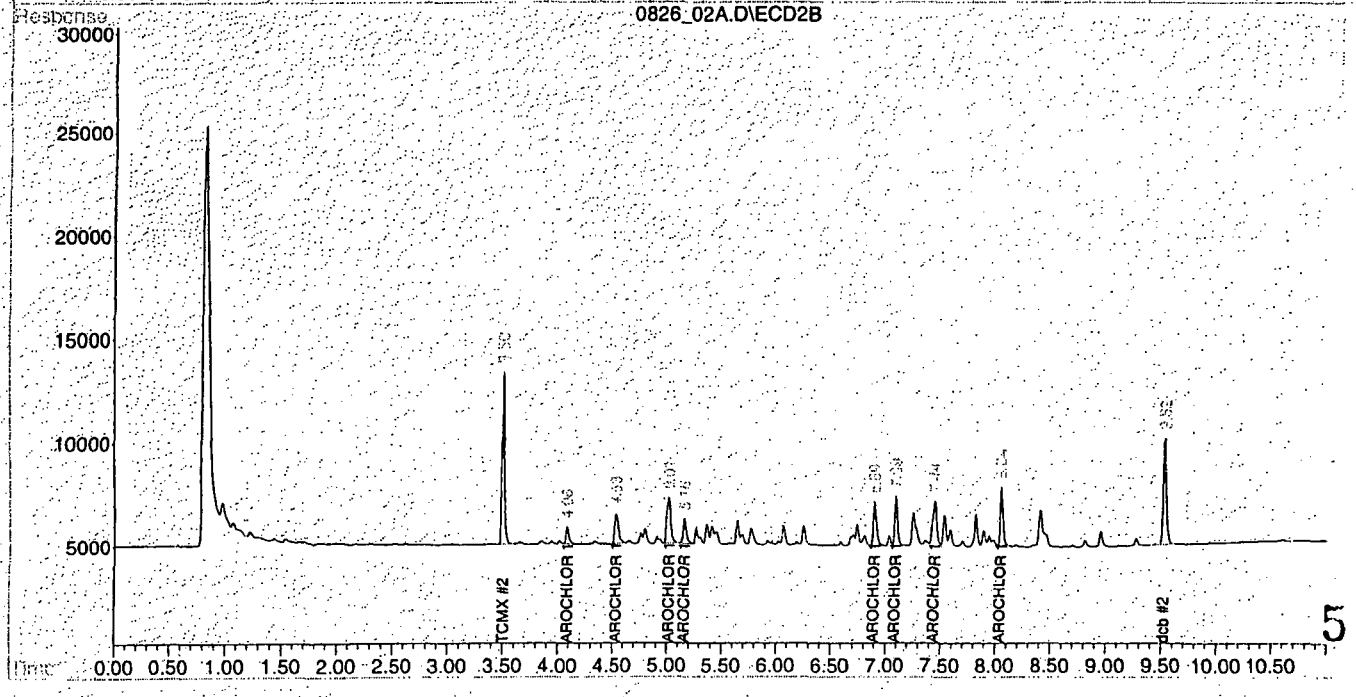
Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA\082602\0826_02A.D\ECD1A.CH Vial: 15
Signal #2 : C:\HPCHEM\1\DATA\082602\0826_02A.D\ECD2B.CH
Acq On : 26 Aug 2002 10:03 am Operator: 308
Sample : 1016/1260 .05ppm Inst : SVGC5
Misc : Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Aug 26 10:16 2002 Quant Results File: PCB8.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB8.M (Chemstation Integrator)
Title :
Last Update : Mon Aug 26 10:08:06 2002
Response via : Multiple Level Calibration
DataAcq Meth : PCB5.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





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Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\082602\0826_03.D\ECD1A.CH Vial: 16
Signal #2 : C:\HPCHEM\1\DATA\082602\0826_03.D\ECD2B.CH
Acq On : 26 Aug 2002 8:35 am Operator: 308
Sample : 1016/1260 .10ppm Inst : SVGC5
Misc : Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Aug 26 9:03 2002 Quant Results File: PCB8.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB8.M (Chemstation Integrator)
Title :
Last Update : Mon Aug 26 09:03:10 2002
Response via : Initial Calibration
DataAcq Meth : PCB5.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) s TCMX	3.62	350205	0.019 µg/mL
Spiked Amount 0.200	Range 41 - 145	Recovery =	9.50%#
10) s DCB	9.27	214466	0.019 µg/mLm
Spiked Amount 0.200	Range 39 - 137	Recovery =	9.50%#
12) s TCMX #2	3.51	259726	0.017 µg/mL
Spiked Amount 0.200	Range 41 - 145	Recovery =	8.50%#
21) s dcb #2	9.53	171477	0.016 µg/mL
Spiked Amount 0.200	Range 39 - 137	Recovery =	8.00%#
Target Compounds			
2) m,t AROCHLOR 1016(1)	4.07	36554	0.078 µg/mL
3) m,t AROCHLOR 1016(2)	4.46	83255	0.096 µg/mL
4) m,t AROCHLOR 1016(3)	5.13	66735	0.096 µg/mL
5) m,t AROCHLOR 1016(4)	5.19	41166	0.093 µg/mL
6) m,t AROCHLOR 1260(1)	6.76	94713	0.209 µg/mL
7) m,t AROCHLOR 1260(2)	7.16	49050	0.060 µg/mL
8) m,t AROCHLOR 1260(3)	7.31	125996	0.095 µg/mL
9) m,t AROCHLOR 1260(4)	7.95	127728	0.092 µg/mL
13) m,t AROCHLOR 1016(1) #2	4.09	32793	0.088 µg/mL
14) m,t AROCHLOR 1016(2) #2	4.54	72542	0.088 µg/mL
15) m,t AROCHLOR 1016(3) #2	5.02	119725	0.087 µg/mL
16) m,t AROCHLOR 1016(4) #2	5.17	53072	0.089 µg/mL
17) m,t AROCHLOR 1260(1) #2	6.90	82080	0.296 µg/mL
18) m,t AROCHLOR 1260(2) #2	7.09	87186	0.092 µg/mL
19) m,t AROCHLOR 1260(3) #2	7.45	113514	0.085 µg/mL
20) m,t AROCHLOR 1260(4) #2	8.05	109675	0.083 µg/mL

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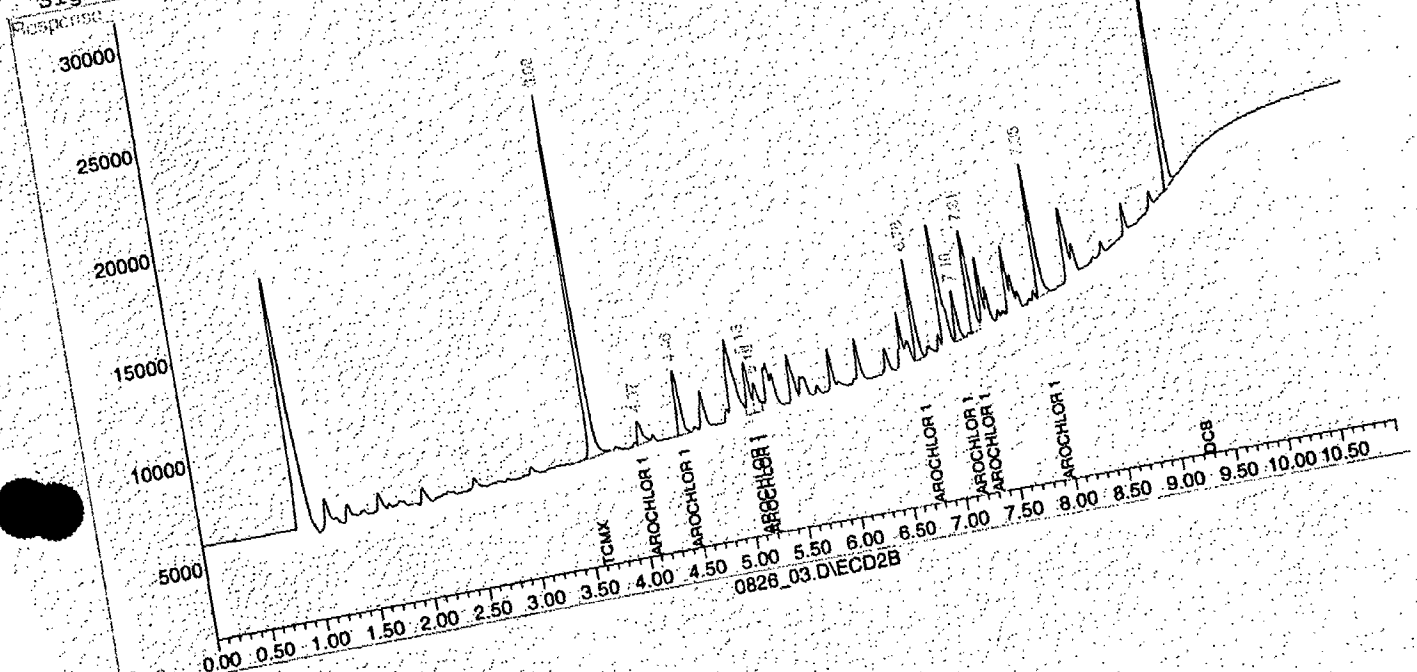
(f)=RT Delta > 1/2 Window (m)=manual int.

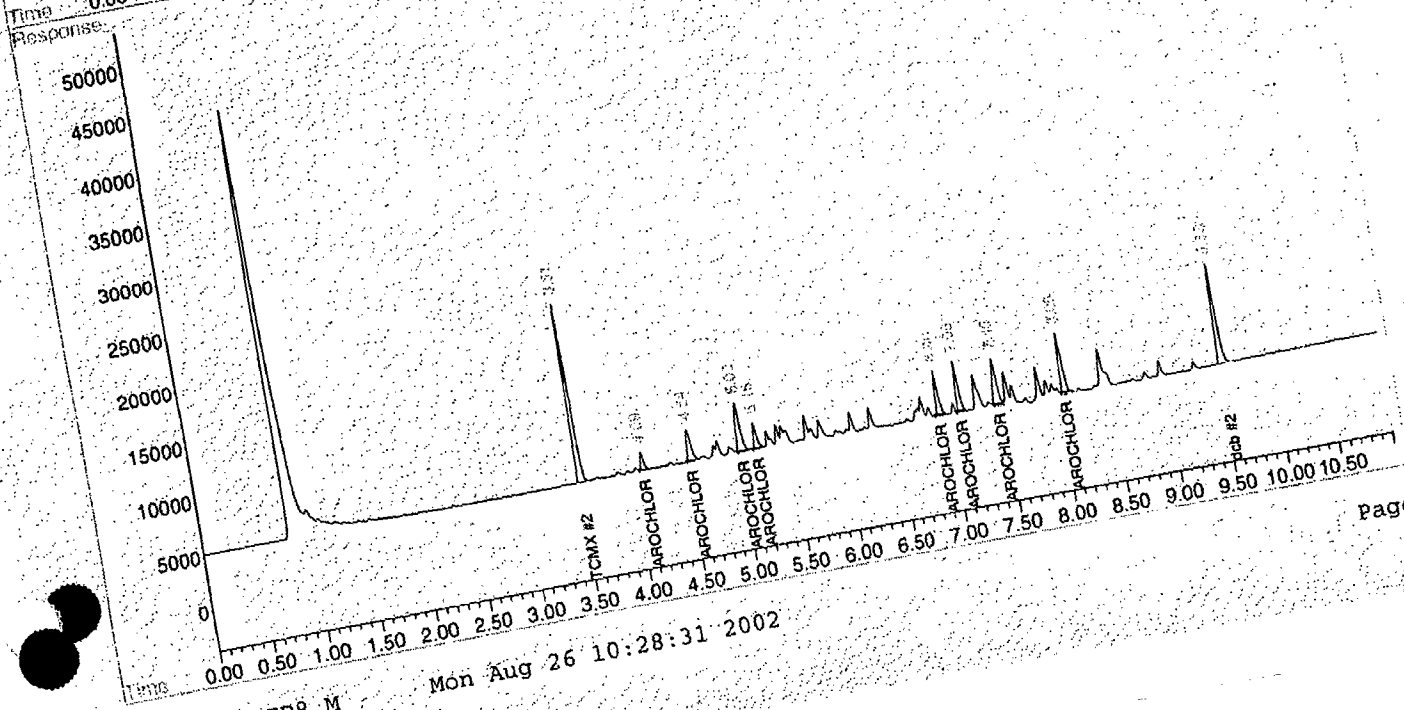
Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA\082602\0826_03.D\ECD1A.CH Vial: 16
Signal #2 : C:\HPCHEM\1\DATA\082602\0826_03.D\ECD2B.CH
Acq On : 26 Aug 2002 8:35 am Operator: 308
Sample : 1016/1260 .10ppm Inst : SVGC5
Misc : Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Aug 26 9:03 2002 Quant Results File: PCB8.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB8.M (Chemstation Integrator)
Title :
Last Update : Mon Aug 26 09:03:10 2002
Response via : Multiple Level Calibration
DataAcq Meth : PCB5.M

Volume Inj. : Signal #2 Phase:
Signal #1 Phase : Signal #2 Info :
Signal #1 Info :





Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\082602\0826_04.D\ECD1A.CH Vial: 17
Signal #2 : C:\HPCHEM\1\DATA\082602\0826_04.D\ECD2B.CH
Acq On : 26 Aug 2002 8:50 am Operator: 308
Sample : 1016/1260 25ppm Inst : SVGC5
Misc : Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Aug 26 9:03 2002 Quant Results File: PCB8.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB8.M (Chemstation Integrator)
Title :
Last Update : Mon Aug 26 09:03:32 2002
Response via : Initial Calibration
DataAcq Meth : PCB5.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

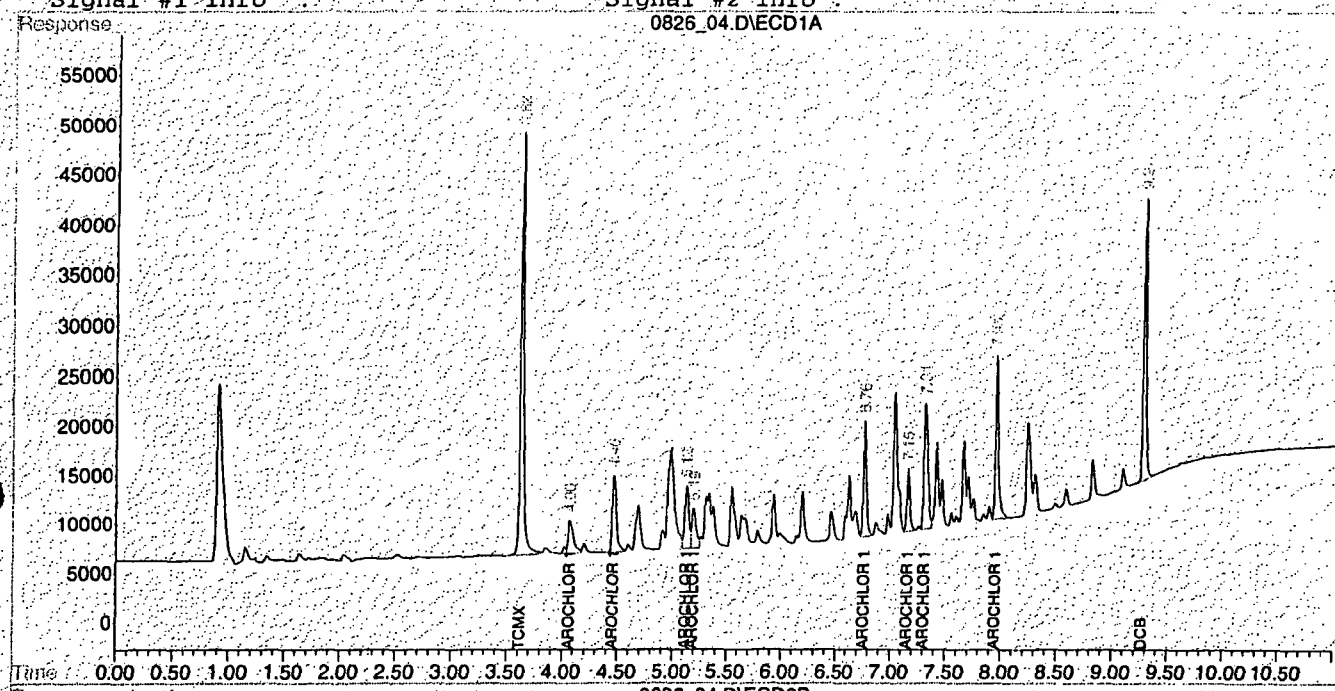
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) s TCMX	3.62	849194	0.047 µg/mL
Spiked Amount 0.200	Range 41 - 145	Recovery =	23.50%#
10) s DCB	9.27	519393	0.045 µg/mLm
Spiked Amount 0.200	Range 39 - 137	Recovery =	22.50%#
12) s TCMX #2	3.51	647109	0.043 µg/mL
Spiked Amount 0.200	Range 41 - 145	Recovery =	21.50%#
21) s dcb #2	9.52	396217	0.039 µg/mL
Spiked Amount 0.200	Range 39 - 137	Recovery =	19.50%#
Target Compounds			
2) m,t AROCHLOR 1016(1)	4.06	108550	0.232 µg/mL
3) m,t AROCHLOR 1016(2)	4.46	211000	0.242 µg/mL
4) m,t AROCHLOR 1016(3)	5.12	169446	0.243 µg/mL
5) m,t AROCHLOR 1016(4)	5.19	109744	0.246 µg/mL
6) m,t AROCHLOR 1260(1)	6.76	229186	0.403 µg/mL
7) m,t AROCHLOR 1260(2)	7.15	127798	0.171 µg/mL
8) m,t AROCHLOR 1260(3)	7.31	320851	0.240 µg/mL
9) m,t AROCHLOR 1260(4)	7.95	332774	0.239 µg/mL
13) m,t AROCHLOR 1016(1) #2	4.09	79322	0.219 µg/mL
14) m,t AROCHLOR 1016(2) #2	4.54	177219	0.220 µg/mL
15) m,t AROCHLOR 1016(3) #2	5.02	286192	0.213 µg/mL
16) m,t AROCHLOR 1016(4) #2	5.16	127433	0.217 µg/mL
17) m,t AROCHLOR 1260(1) #2	6.90	193737	0.481 µg/mL
18) m,t AROCHLOR 1260(2) #2	7.09	197112	0.210 µg/mL
19) m,t AROCHLOR 1260(3) #2	7.44	261672	0.202 µg/mL
20) m,t AROCHLOR 1260(4) #2	8.05	254108	0.197 µg/mL

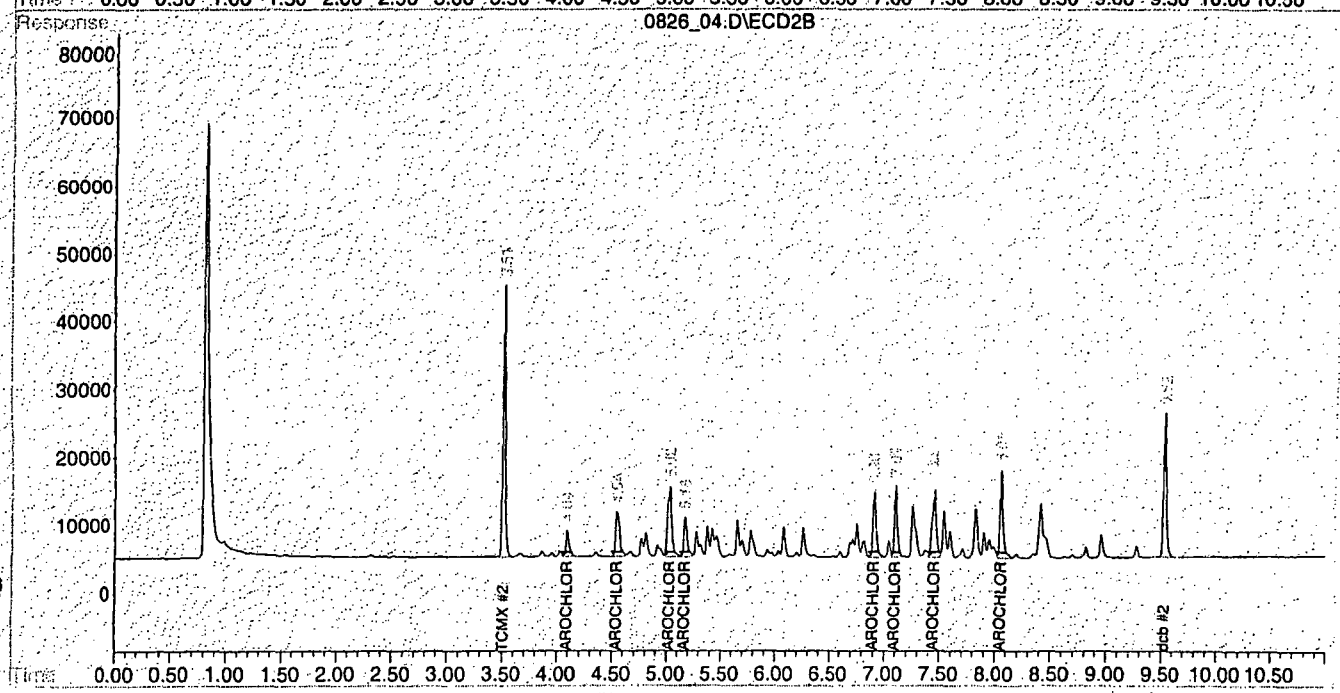
Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA\082602\0826_04.D\ECD1A.CH Vial: 17
Signal #2 : C:\HPCHEM\1\DATA\082602\0826_04.D\ECD2B.CH
Acq On : 26 Aug 2002 8:50 am Operator: 308
Sample : 1016/1260 .25ppm Inst : SVGC5
Misc : Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Aug 26 9:03 2002 Quant Results File: PCB8.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB8.M (Chemstation Integrator)
Title :
Last Update : Mon Aug 26 09:03:32 2002
Response via : Multiple Level Calibration
DataAcq Meth : PCB5.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





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Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\082602\0826_05.D\ECD1A.CH Vial: 2
Signal #2 : C:\HPCHEM\1\DATA\082602\0826_05.D\ECD2B.CH
Acq On : 26 Aug 2002 9:04 am Operator: 308
Sample : 1016/1260 .50ppm Inst : SVGC5
Misc : Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Aug 26 9:53 2002 Quant Results File: PCB8.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB8.M (Chemstation Integrator)
Title :
Last Update : Mon Aug 26 09:03:54 2002
Response via : Initial Calibration
DataAcq Meth : PCB5.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) s TCMX	3.62	1592973	0.088 µg/mL
Spiked Amount 0.200 Range 41 - 145		Recovery = 44.00%	
10) s DCB	9.26	1033835	0.090 µg/mLm
Spiked Amount 0.200 Range 39 - 137		Recovery = 45.00%	
12) s TCMX #2	3.51	1271225	0.086 µg/mL
Spiked Amount 0.200 Range 41 - 145		Recovery = 43.00%	
21) s dcb #2	9.52	771371	0.080 µg/mL
Spiked Amount 0.200 Range 39 - 137		Recovery = 40.00%	
Target Compounds			
2) m,t AROCHLOR 1016(1)	4.06	236520	0.506 µg/mL
3) m,t AROCHLOR 1016(2)	4.45	405071	0.463 µg/mL
4) m,t AROCHLOR 1016(3)	5.11	329688	0.471 µg/mL
5) m,t AROCHLOR 1016(4)	5.18	217995	0.487 µg/mL
6) m,t AROCHLOR 1260(1)	6.75	440904	0.649 µg/mL
7) m,t AROCHLOR 1260(2)	7.15	262166	0.383 µg/mL
8) m,t AROCHLOR 1260(3)	7.30	632576	0.473 µg/mL
9) m,t AROCHLOR 1260(4)	7.94	670102	0.480 µg/mL
13) m,t AROCHLOR 1016(1) #2	4.09	155465	0.438 µg/mL
14) m,t AROCHLOR 1016(2) #2	4.54	341045	0.433 µg/mL
15) m,t AROCHLOR 1016(3) #2	5.02	563825	0.432 µg/mL
16) m,t AROCHLOR 1016(4) #2	5.16	251472	0.438 µg/mL
17) m,t AROCHLOR 1260(1) #2	6.89	379587	0.732 µg/mL
18) m,t AROCHLOR 1260(2) #2	7.09	393521	0.429 µg/mL
19) m,t AROCHLOR 1260(3) #2	7.44	515220	0.411 µg/mL
20) m,t AROCHLOR 1260(4) #2	8.05	500334	0.404 µg/mL

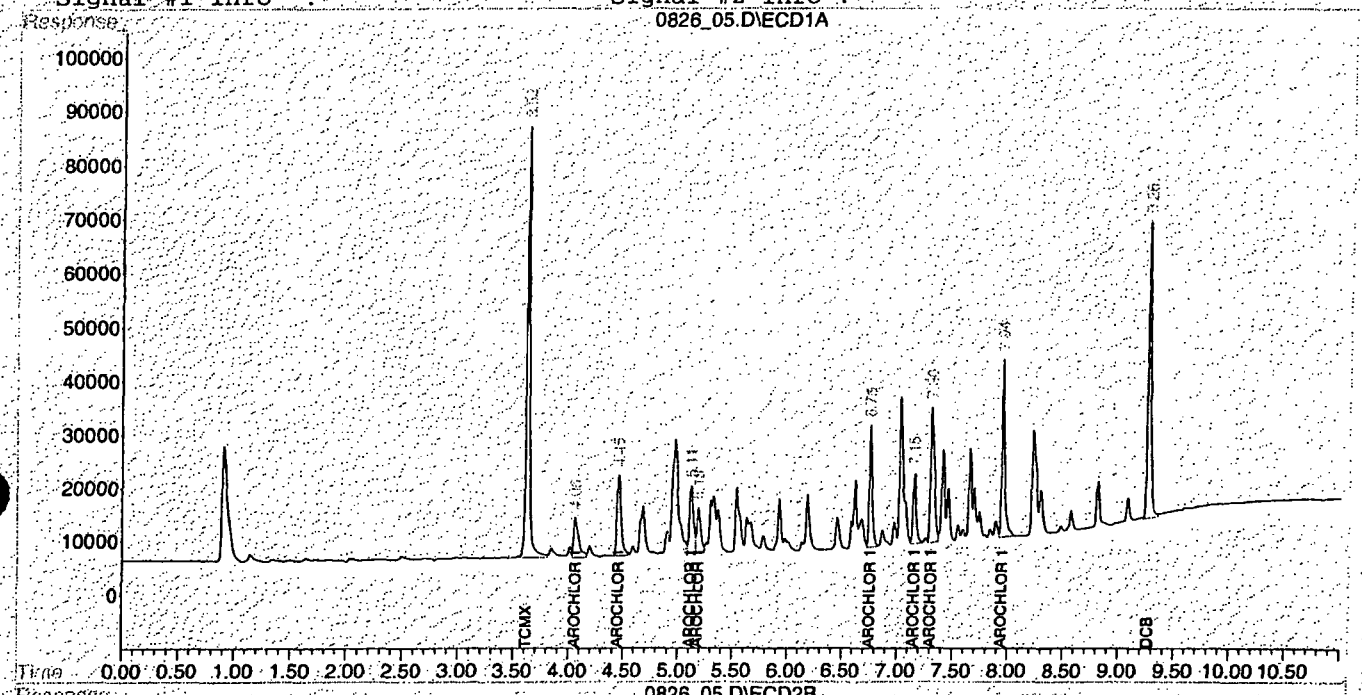
(f)=RT Delta > 1/2 Window (m)=manual int.
0826_05.D PCB8.M Mon Aug 26 10:28:33 2002 Page 1

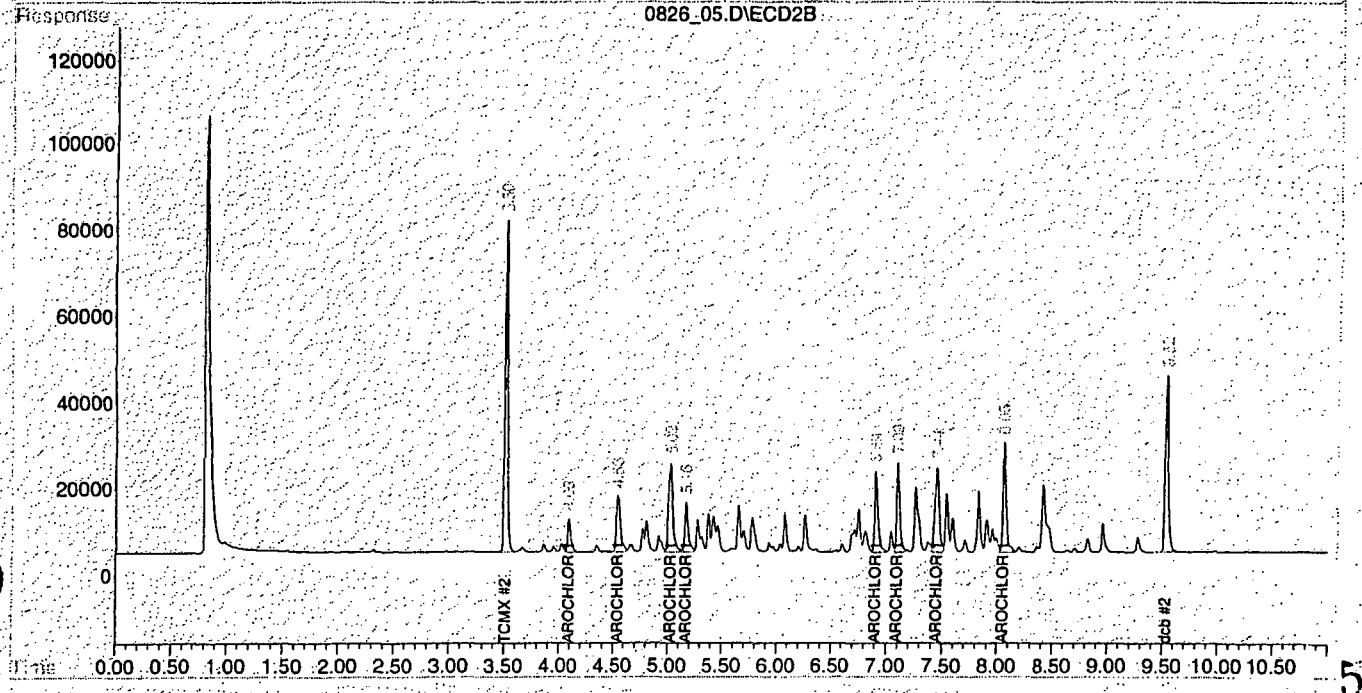
Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA\082602\0826_05.D\ECD1A.CH Vial: 2
Signal #2 : C:\HPCHEM\1\DATA\082602\0826_05.D\ECD2B.CH
Acq On : 26 Aug 2002 9:04 am Operator: 308
Sample : 1016/1260 .50ppm Inst : SVGC5
Misc : Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Aug 26 9:53 2002 Quant Results File: PCB8.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB8.M (Chemstation Integrator)
Title :
Last Update : Mon Aug 26 09:03:54 2002
Response via : Multiple Level Calibration
DataAcq Meth : PCB5.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\082602\0826_06.D\ECD1A.CH Vial: 18
Signal #2 : C:\HPCHEM\1\DATA\082602\0826_06.D\ECD2B.CH
Acq On : 26 Aug 2002 9:19 am Operator: 308
Sample : 1016/1260 .75ppm Inst : SVGC5
Misc : Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Aug 26 9:53 2002 Quant Results File: PCB8.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB8.M (Chemstation Integrator)
Title :
Last Update : Mon Aug 26 09:20:50 2002
Response via : Initial Calibration
DataAcq Meth : PCB5.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) s TCMX	3.61	2071436	0.116 µg/mL
Spiked Amount 0.200	Range 41 - 145	Recovery =	58.00%
10) s DCB	9.26	1316398	0.114 µg/mLm
Spiked Amount 0.200	Range 39 - 137	Recovery =	57.00%
12) s TCMX #2	3.50	1690827	0.118 µg/mL
Spiked Amount 0.200	Range 41 - 145	Recovery =	59.00%
21) s dcb #2	9.52	1008263	0.109 µg/mL
Spiked Amount 0.200	Range 39 - 137	Recovery =	54.50%
Target Compounds			
2) m,t AROCHLOR 1016(1)	4.06	292612	0.621 µg/mL
3) m,t AROCHLOR 1016(2)	4.45	527449	0.604 µg/mL
4) m,t AROCHLOR 1016(3)	5.11	429750	0.614 µg/mL
5) m,t AROCHLOR 1016(4)	5.18	288862	0.644 µg/mL
6) m,t AROCHLOR 1260(1)	6.75	576966	0.738 µg/mL
7) m,t AROCHLOR 1260(2)	7.15	367469	0.586 µg/mL
8) m,t AROCHLOR 1260(3)	7.30	857360	0.642 µg/mL
9) m,t AROCHLOR 1260(4)	7.94	848982	0.609 µg/mL
13) m,t AROCHLOR 1016(1) #2	4.09	200378	0.578 µg/mL
14) m,t AROCHLOR 1016(2) #2	4.53	444428	0.579 µg/mL
15) m,t AROCHLOR 1016(3) #2	5.02	743347	0.586 µg/mL
16) m,t AROCHLOR 1016(4) #2	5.16	332687	0.597 µg/mL
17) m,t AROCHLOR 1260(1) #2	6.89	494146	0.783 µg/mL
18) m,t AROCHLOR 1260(2) #2	7.09	514413	0.573 µg/mL
19) m,t AROCHLOR 1260(3) #2	7.44	677519	0.562 µg/mL
20) m,t AROCHLOR 1260(4) #2	8.05	660969	0.557 µg/mL

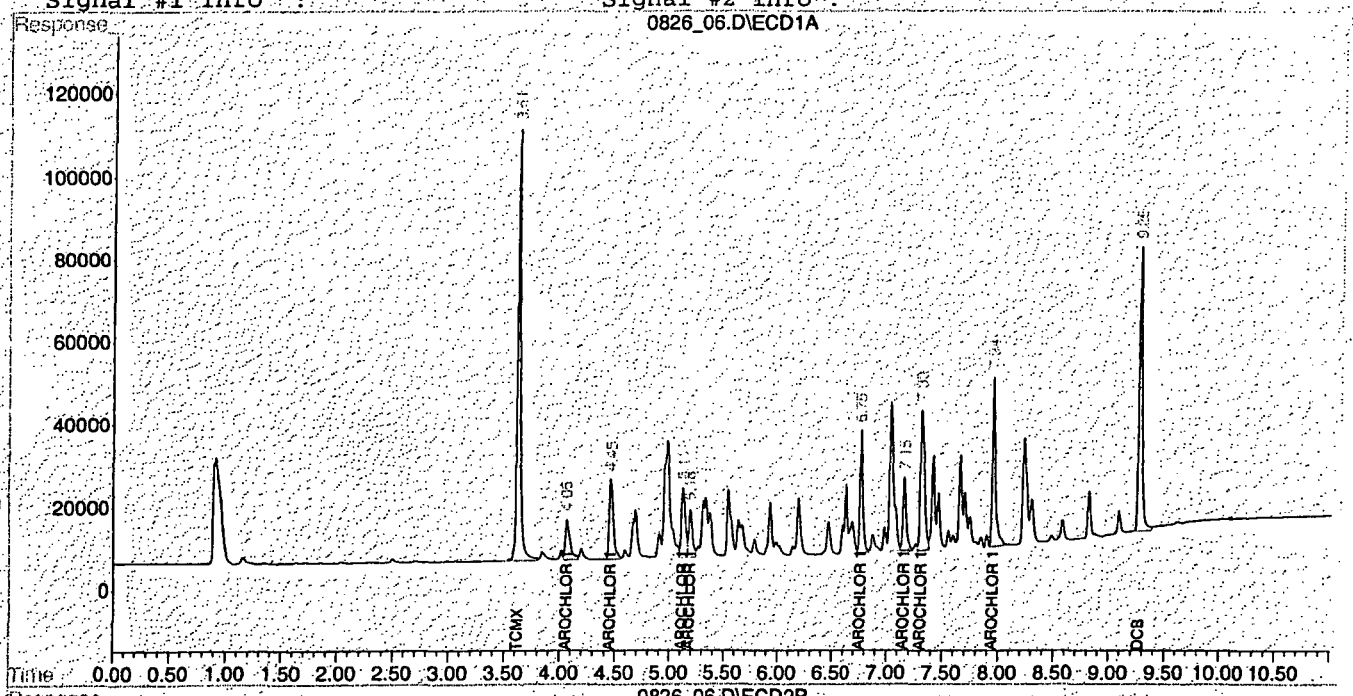
(f)=RT Delta > 1/2 Window (m)=manual int.

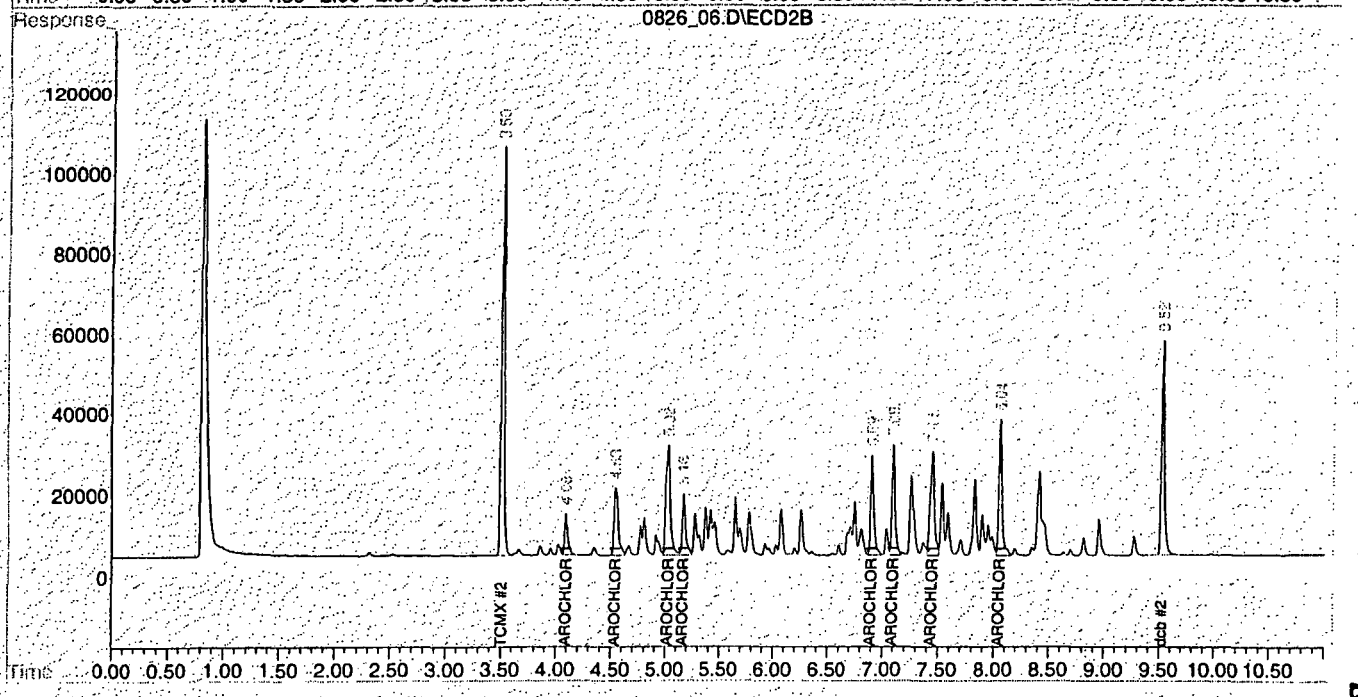
Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA\082602\0826_06.D\ECD1A.CH Vial: 18
Signal #2 : C:\HPCHEM\1\DATA\082602\0826_06.D\ECD2B.CH
Acq On : 26 Aug 2002 9:19 am Operator: 308
Sample : 1016/1260 .75ppm Inst : SVGC5
Misc : Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Aug 26 9:53 2002 Quant Results File: PCB8.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB8.M (Chemstation Integrator)
Title :
Last Update : Mon Aug 26 09:20:50 2002
Response via : Multiple Level Calibration
DataAcq Meth : PCB5.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





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Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\082602\0826_07.D\ECD1A.CH Vial: 19
Signal #2 : C:\HPCHEM\1\DATA\082602\0826_07.D\ECD2B.CH
Acq On : 26 Aug 2002 9:33 am Operator: 308
Sample : 1016/1260 1.0ppm Inst : SVGC5
Misc : Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Aug 26 9:50 2002 Quant Results File: PCB8.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB8.M (Chemstation Integrator)
Title :
Last Update : Mon Aug 26 09:50:09 2002
Response via : Initial Calibration
DataAcq Meth : PCB5.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) s TCMX	3.61	2916096	0.164 µg/mL
Spiked Amount 0.200	Range 41 - 145	Recovery =	82.00%
10) s DCB	9.26	2012971	0.177 µg/mL
Spiked Amount 0.200	Range 39 - 137	Recovery =	88.50%
12) s TCMX #2	3.50	2467981	0.177 µg/mL
Spiked Amount 0.200	Range 41 - 145	Recovery =	88.50%
21) s dcb #2	9.52	1485914	0.167 µg/mL
Spiked Amount 0.200	Range 39 - 137	Recovery =	83.50%
Target Compounds			
2) m,t AROCHLOR 1016(1)	4.05	426065	0.910 µg/mL
3) m,t AROCHLOR 1016(2)	4.45	745952	0.857 µg/mL
4) m,t AROCHLOR 1016(3)	5.11	610395	0.876 µg/mL
5) m,t AROCHLOR 1016(4)	5.18	414948	0.926 µg/mL
6) m,t AROCHLOR 1260(1)	6.75	813825	0.937 µg/mL
7) m,t AROCHLOR 1260(2)	7.15	522244	0.899 µg/mL
8) m,t AROCHLOR 1260(3)	7.30	1220737	0.914 µg/mL
9) m,t AROCHLOR 1260(4)	7.94	1320824	0.958 µg/mL
13) m,t AROCHLOR 1016(1) #2	4.09	293020	0.865 µg/mL
14) m,t AROCHLOR 1016(2) #2	4.53	638206	0.852 µg/mL
15) m,t AROCHLOR 1016(3) #2	5.02	1081446	0.877 µg/mL
16) m,t AROCHLOR 1016(4) #2	5.16	484338	0.892 µg/mL
17) m,t AROCHLOR 1260(1) #2	6.89	718339	0.986 µg/mL
18) m,t AROCHLOR 1260(2) #2	7.09	748145	0.851 µg/mL
19) m,t AROCHLOR 1260(3) #2	7.44	997635	0.861 µg/mL
20) m,t AROCHLOR 1260(4) #2	8.04	975195	0.858 µg/mL

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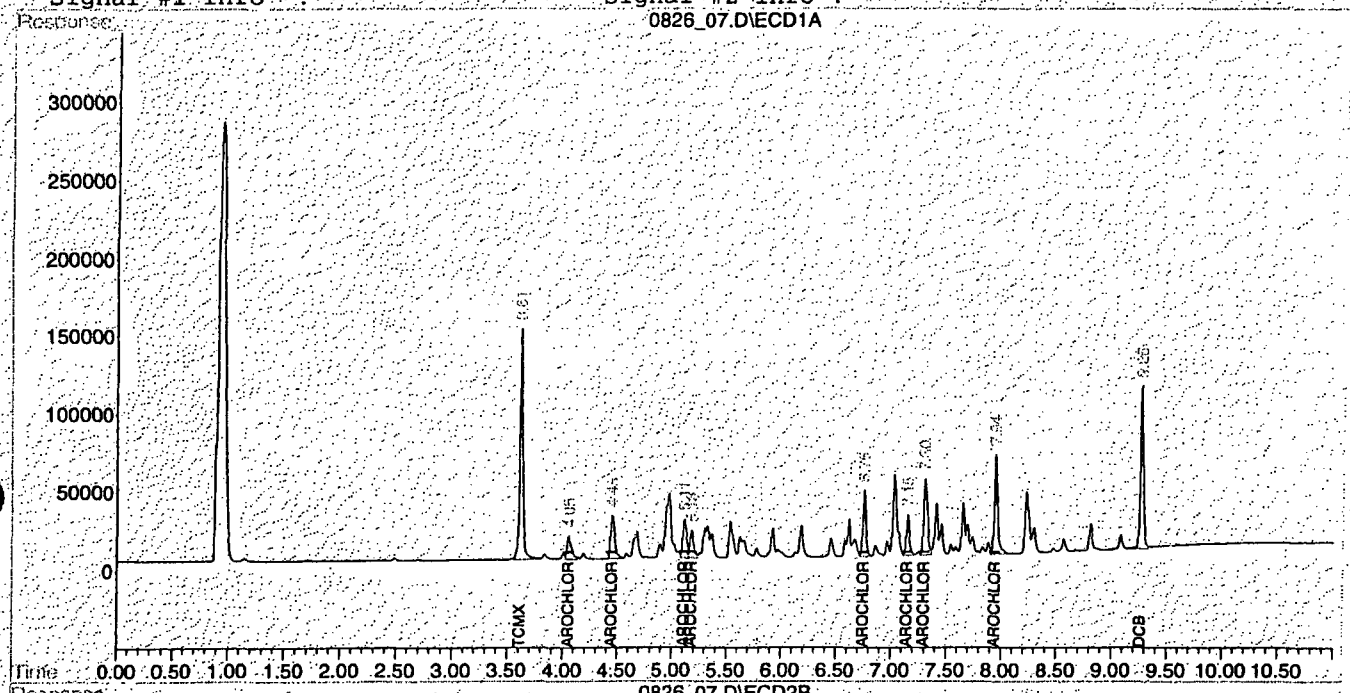
(f)=RT Delta > 1/2 Window (m)=manual int.

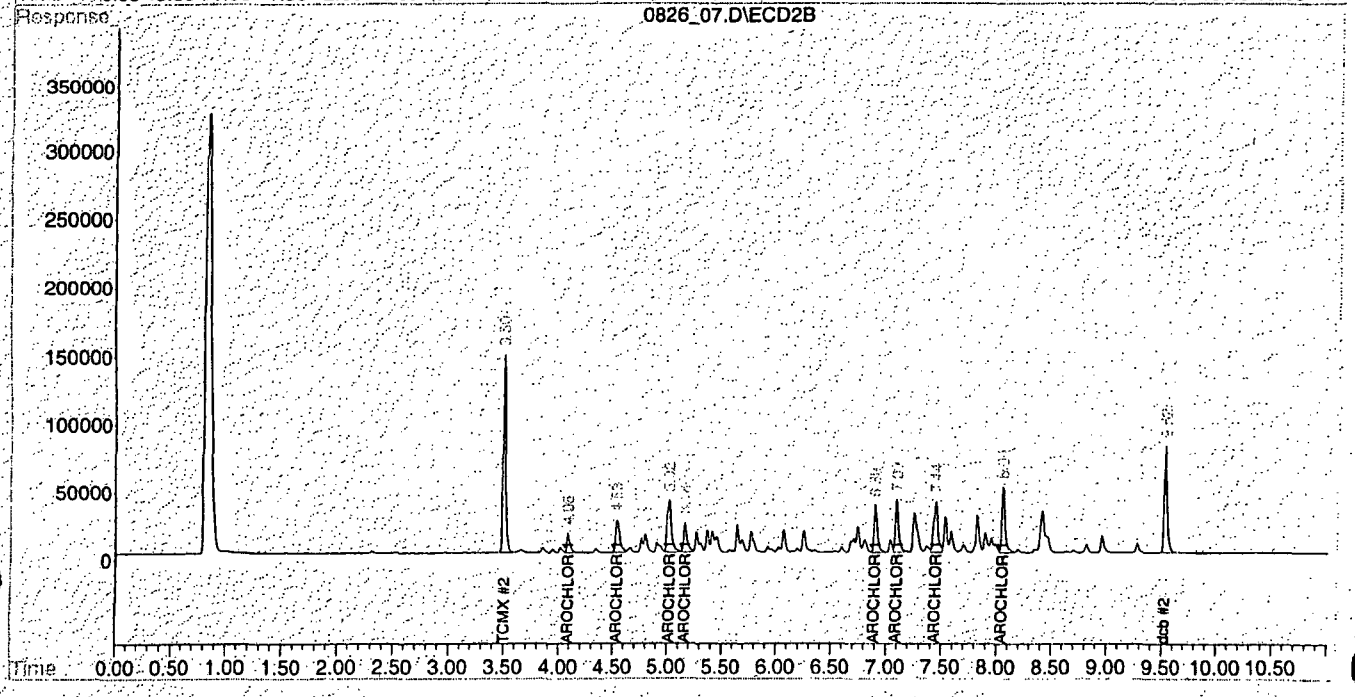
Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA\082602\0826_07.D\ECD1A.CH Vial: 19
Signal #2 : C:\HPCHEM\1\DATA\082602\0826_07.D\ECD2B.CH
Acq On : 26 Aug 2002 9:33 am Operator: 308
Sample : 1016/1260 1.0ppm Inst : SVGC5
Misc : Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Aug 26 9:50 2002 Quant Results File: PCB8.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB8.M (Chemstation Integrator)
Title :
Last Update : Mon Aug 26 09:50:09 2002
Response via : Multiple Level Calibration
DataAcq Meth : PCB5.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





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/22/02

Atkins Benham (Tulsa)/Williams 10811
Cristina Fortey
2488 East 81st St. - Suite 610
Tulsa, OK 74137

This report includes the analytical certificates of analysis for all samples listed below. These samples relate to your project 2203401 WILLIAMS/BUFFALO,OK. The Laboratory Project number is 297901. An executed copy of the chain of custody, the project quality control data, and the sample receipt form are also included as an addendum to this report.

Sample Identification	Lab Number	Collection Date
BUFDL-01	02-A136642	8/20/02

These results relate only to the items tested.
This report shall not be reproduced except in full and with permission of the laboratory.

Report Approved By: _____ Report Date: 8/22/02

Paul E. Lane, Jr., Lab Director
Michael H. Dunn, M.S., Technical Director
Johnny A. Mitchell, Dir. Technical Serv.
Eric S. Smith, Assistant Technical Director
Roxanne L. Connor, Technical Services
Gail A. Lage, Technical Serv.
Glenn L. Norton, Technical Serv.
Kelly S. Comstock, Technical Serv.
Pamela A. Langford, Technical Serv.

Laboratory Certification Number: 9412

2960 Foster Creighton Drive / Nashville,TN 37204 / 615-726-0177 / Fax: 615-726-0954 / 800-765-0980

TestAmerica
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ANALYTICAL REPORT

Atkins Benham (Tulsa)/Williams 10811
Cristina Fortey
2488 East 81st St. - Suite 610
Tulsa, OK 74137

Project: 2203401
Project Name: WILLIAMS/BUFFALO,OK
Sampler: BRUCE MCKENZIE

Lab Number: 02-A136642
Sample ID: BUFDL-01
Sample Type: Soil
Site ID:

Date Collected: 8/20/02
Time Collected: 8:45
Date Received: 8/21/02
Time Received: 9:00
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Date	Time	Analyst	Method	Batch
PESTICIDE/PCB's/HERBICIDES									
Aroclor 1016	ND	mg/kg	348.	5000				8082	4056
Aroclor 1221	ND	mg/kg	695.	5000				8082	4056
Aroclor 1232	ND	mg/kg	348.	5000				8082	4056
Aroclor 1242	ND	mg/kg	348.	5000				8082	4056
Aroclor 1248	ND	mg/kg	348.	5000				8082	4056
Aroclor 1254	7410	mg/kg	348.	5000				8082	4056
Aroclor 1260	ND	mg/kg	348.	5000				8082	4056
GENERAL CHEMISTRY PARAMETERS									
% Dry Weight	56.4	%			8/21/02	15:00	K. Keller	CLP	2667

← why this high?

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
PCB's	15.3 gm	10.0 ml	8/21/02		M. Lax	3550

le report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 02-A136642
Sample ID: BUFDL-01
Project: 2203401

LABORATORY COMMENTS:

ND - Not detected at the report limit.
B - Analyte was detected in the method blank.
J - Estimated Value below Report Limit.
E - Estimated Value above the calibration limit of the instrument.
- Recovery outside Laboratory historical or method prescribed limits.
All reported results for metals or Organic analyses have been corrected for dry weight.

pcb surrogate diluted out due to sample matrix

of Sample Report.

2960 Foster Creighton Drive / Nashville,TN 37204 / 615-726-0177 / Fax: 615-726-0954 / 800-765-0980

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PROJECT QUALITY CONTROL DATA
Project Number: 2203401
Page: 1

Matrix Spike Recovery

Analyte	units	Orig. Val.	MS Val	Spike Conc	Recovery	Target Range	Q.C. Batch	Spike Sample
MISC PARAMETERS								
Aroclor 1254	mg/kg	< 0.0200	0.180	0.167	108	40 - 140	4056	blank

Matrix Spike Duplicate

Analyte	units	Orig. Val.	Duplicate	RPD	Limit	Q.C. Batch
MISC PARAMETERS						
Aroclor 1254	mg/kg	0.180	0.198	9.52	50	4056

Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
PEST/PCB/HERB PARAMETERS						
Aroclor 1254	mg/kg	0.167	0.203	122	60 - 154	4056

Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Date Analyzed	Time Analyzed
PEST/PCB/HERB PARAMETERS					
Aroclor 1016	< 0.0200	mg/kg	4056	8/22/02	10:15
Aroclor 1221	< 0.0400	mg/kg	4056	8/22/02	10:15
Aroclor 1232	< 0.0200	mg/kg	4056	8/22/02	10:15
Aroclor 1242	< 0.0200	mg/kg	4056	8/22/02	10:15
Aroclor 1248	< 0.0200	mg/kg	4056	8/22/02	10:15
Aroclor 1254	< 0.0200	mg/kg	4056	8/22/02	10:15
Aroclor 1260	< 0.0200	mg/kg	4056	8/22/02	10:15

ject QC continued . . .

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PROJECT QUALITY CONTROL DATA
Project Number: 2203401
Page: 2

- Value outside Laboratory historical or method prescribed QC limits.

End of Report for Project 297901

2960 Foster Creighton Drive / Nashville,TN 37204 / 615-726-0177 / Fax: 615-726-0954 / 800-765-0980

297901 10811 4 2

CHAIN-OF-CUSTODY RECORD

Atkins Benham
ENVIRONMENTAL DIVISION
FORMERLY ROBERTS / SCHORNICK & ASSOCIATES

- Norman, OK 405/321-3895
- Tulsa, OK 918/496-0059
- Arlington, TX 817/640-6407
- Houston, TX 281/496-1073

(Complete Addresses on reverse side of form)

CLIENT NAME:	SITE MANAGER:
[illegible] Gas Pipeline Central Inc.	Bruce McKenzie
PROJECT NO.: [illegible]	PROJECT NAME: Williams/Buffalo, OK
PAGE: 1 OF 1	LAB.: PO#

DATE	TIME	MATRIX	SAMPLE IDENTIFICATION	NUMBER OF CONTAINERS	PCB (8082)	PERCENT SOLIDS	Temperature °C					LAB I.D. NUMBER (LAB USE ONLY)	REMARKS (I.E., FILTERED, UNFILTERED, PRESERVED, UNPRESERVED, GRAB COMPOSITE
8/20/02	0845	Sediment	BUFDL-01	2	X	X						136642	**Please call Bruce McKenzie
—	—	water	TEMP BLANK	1			X						with results within 24 hrs. of
													receipt of samples at (918)
													906-6780 and e-mail to
													bmckenzie@atkinsbenham.com

SAMPLED BY: (Signature)	DATE: 8/20/02	RELINQUISHED BY: (Signature)	DATE: 8/20/02	RECEIVED BY: (Signature)	DATE:
Bruce McKenzie	TIME: As Above	B McKenzie	TIME: 1510		TIME:
RELINQUISHED BY: (Signature)	DATE:	RECEIVED BY: (Signature)	DATE:	SAMPLE SHIPPED BY: (Circle)	AIRBILL #
	TIME:		TIME:	FEDEX	PONY XPS VEL XPS
COMMENTS:		TURN AROUND TIME NEEDED: * Rush 24 hrs. *		HAND DELIVERED	UPS OTHER

RECEIVING LABORATORY: Test America
ADDRESS: 2960 Foster Creighton Drive
CITY: Nashville STATE: TN ZIP: 37204
CONTACT: Mark Hollingsworth
PHONE: (800) 765-0980 x 1248

RECEIVED BY LABORATORY: [signature]
(Signature)
DATE: 8/21/02 TIME: 0900

SAMPLE CONDITION UPON RECEIPT (Lab Use Only)
Temperature 2 Wet Ice Present Y N
VOA's Free of Headspace Y N
Comments:

ABI CONTACT PERSON(S): DEBBY McELREATH/ Bruce McKenzie / Cristina Fortey

PHONE #: 405-321-3895 / 405-579-0203
(918) 906-6780 / (918) 496-0059 ext. 150

POINT OF ORIGIN: ☐ ABI - NORMAN ☑ ABI - TULSA ☐ ABI - ARLINGTON ☐ OTHER:

PAGE #1 - RECEIVING LAB PAGE #2 - RETURN TO ABI PAGE #3 - PROJECT MANAGER PAGE #4 - QA/QC COORDINATOR

TESTAMERICA,INC.-NASHVILLE

COOLER RECEIPT FORM

Client: Atkins Bauham BC# 297901

Cooler Received and Opened On: 8.21.02 By: *Chris Wilmoth*

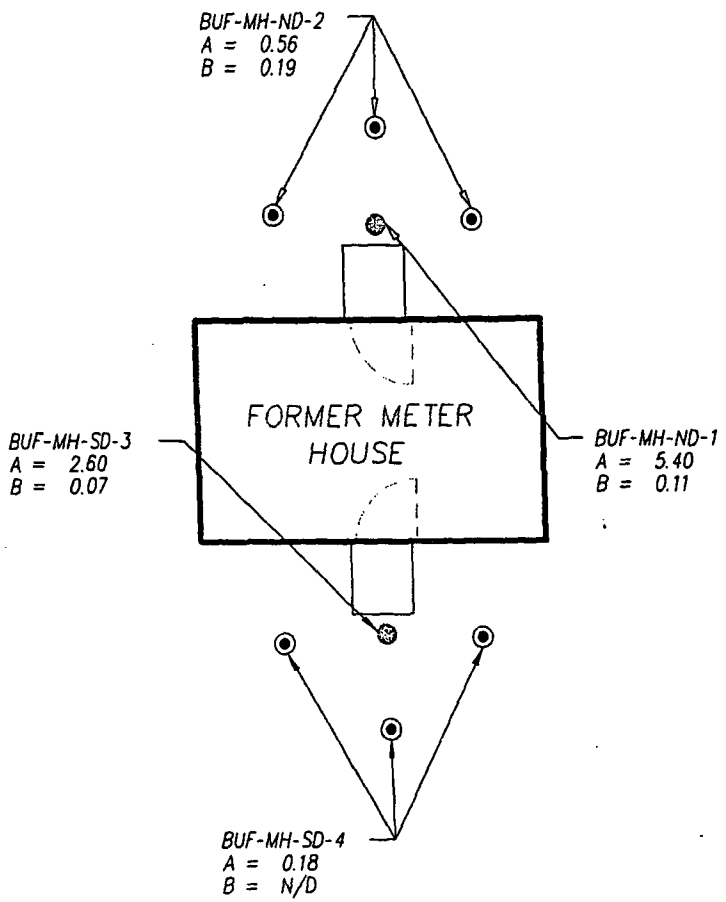
C. Wilt
(Signature)

1. Temperature of Cooler when opened 2 C
2. Were custody seals on outside of cooler?.....YES...NO
   a. If yes, how many, what kind and where: 1 Front
3. Were custody seals on containers and intact?.....NO...YES
4. Were the seals intact, signed, and dated correctly?.....YES...NO
5. Were custody papers inside cooler?.....YES...NO
6. Were custody papers properly filled out (ink,signed,etc)?.....YES...NO
7. Did you sign the custody papers in the appropriate place?.....YES...NO
8. What kind of packing material used? Bubblewrap Peanuts Vermiculite Other None
9. Was sufficient ice used (if appropriate)?.....YES...NO
10. Did all bottles arrive in good condition(unbroken)?.....YES...NO
11. Were all bottle labels complete (#,date,signed,pres,etc)?.....YES...NO
12. Did all bottle labels and tags agree with custody papers?.....YES...NO
13. Were correct bottles used for the analysis requested?.....YES...NO
14. a. Were VOA vials received?.....YES...NO
    b. Was there any observable head space present in any VOA vial?.....NO...YES
15. Was sufficient amount of sample sent in each bottle?.....YES...NO
16. Were correct preservatives used?.....YES...NO
17. Was residual chlorine present?.....NO...YES
18. Corrective action taken, if necessary:

    See attached for resolution

APPENDIX F

TERRACON FORMER METER HOUSE SOIL INVESTIGATION DATA



LEGEND

- BUILDING LINE
- SIDEWALK LINE
- COMPOSITION SAMPLE LOCATION
- GRAB SAMPLE LOCATION

NOTES:
"A" INTERVAL = 0"-6"
"B" INTERVAL = 12"-18"
N/D = NOT DETECTED

FIGURE 1 - FORMER METER HOUSE AREA
WILLIAMS GAS PIPELINE SOUTH CENTRAL
BUFFALO, OKLAHOMA

File Name: FIGURE 1.dwg | Figure No. 1

DRAWING IS FOR GENERAL LOCATION ONLY, AND IS NOT INTENDED FOR CONSTRUCTION PURPOSES

Table 1: Metals Former Meter House Area Williams Gas Pipeline South Central Buffalo, Oklahoma					
SAMPLE ID	**LAB I.D. #**	**DATE**	**Mercury**	**Residential Action Levels**	**Industrial Action Levels**
BUFF-MH-ND-1A	L71351-20	03/22/02	**5.40**	**2.00**	**20.00**
BUFF-MH-ND-1B	L71351-21	03/22/02	**0.11**	**2.00**	**20.00**
BUFF-MH-ND-2A	L71351-18	03/22/02	**0.56**	**2.00**	**20.00**
BUFF-MH-ND-2B	L71351-19	03/22/02	**0.19**	**2.00**	**20.00**
BUFF-MH-SD-3A	L71351-22	03/22/02	**2.60**	**2.00**	**20.00**
BUFF-MH-SD-3B	L71351-23	03/22/02	**0.07**	**2.00**	**20.00**
BUFF-MH-SD-4A	L71351-24	03/22/02	**0.18**	**2.00**	**20.00**
BUFF-MH-SD-4B	L71351-25	03/22/02	ND (0.022)	**2.00**	**20.00**

Notes:

1. Results detected above laboratory reporting limits are in bold.
2. Concentrations above regulatory criteria are bold and shaded.
3. Soil results reported in milligrams/kilogram (mg/kg) or parts per million (PPM).

ENVIRONMENTAL
SCIENCE CORP.

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. John Rockhold
Terracon
13910 West 96th Terrace
Lenexa, KS 66215

March 22,2002

Date Received : March 14, 2002
Description : WGPSC-Buffalo OK
Sample ID : BUFF-MH-ND-2A
Collected By :
Collection Date : 03/12/02 12:50

ESC Sample # : L71351-18
ESC Key : WILGASKS-TERRACON
Site ID :
Project # : 50007055

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	92.3		%	2540G	03/15/02	1
Mercury	0.56	0.11	mg/kg	7471	03/19/02	5

Tom Mellette, ESC Representative

Results listed are dry weight basis.
BDL - Below Detection Limit
Det. Limit - Estimated Quantitation Limit(EQL)

Laboratory Certification Numbers:
A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
KY - 90010, KYUST - 0016, NC - ENV375,DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233

Note:
This report shall not be reproduced, except in full, without the written approval from ESC.
The reported analytical results relate only to the sample submitted

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Mr. John Rockhold
Terracon
13910 West 96th Terrace
Lenexa, KS 66215

March 22,2002

Date Received : March 14, 2002
Description : WGPSC-Buffalo OK
Sample ID : BUFF-MH-ND-2B
Collected By :
Collection Date : 03/12/02 12:50

ESC Sample # : L71351-19
ESC Key : WILGASKS-TERRACON
Site ID :
Project # : 50007055

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	87.5		%	2540G	03/15/02	1
Mercury	0.19	0.023	mg/kg	7471	03/15/02	1

Tom Mellette, ESC Representative

Results listed are dry weight basis.
BDL - Below Detection Limit
Det. Limit - Estimated Quantitation Limit(EQL)

Laboratory Certification Numbers:
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Mr. John Rockhold
Terracon
13910 West 96th Terrace
Lenexa, KS 66215

March 22,2002

Date Received : March 14, 2002
Description : WGPSC-Buffalo OK
Sample ID : BUFF-MH-ND-1A
Collected By :
Collection Date : 03/12/02 13:15

ESC Sample # : L71351-20
ESC Key : WILGASKS-TERRACON
Site ID :
Project # : 50007055

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	85.5		%	2540G	03/15/02	1
Mercury	5.4	0.23	mg/kg	7471	03/19/02	10

Tom Mallette, ESC Representative

Results listed are dry weight basis.
BDL - Below Detection Limit
Det. Limit - Estimated Quantitation Limit(EQL)

Laboratory Certification Numbers:
A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
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REPORT OF ANALYSIS

Mr. John Rockhold
Terracon
13910 West 96th Terrace
Lenexa, KS 66215

March 22,2002

Date Received : March 14, 2002
Description : WGPSC-Buffalo OK
Sample ID : BUFF-MH-ND-1B
Collected By :
Collection Date : 03/12/02 13:15

ESC Sample # : L71351-21
ESC Key : WILGASKS-TERRACON
Site ID :
Project # : 50007055

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	89.6		%	2540G	03/15/02	1
Mercury	0.11	0.022	mg/kg	7471	03/15/02	1

Tom Mellette, ESC Representative

Results listed are dry weight basis.
BDL - Below Detection Limit
Det. Limit - Estimated Quantitation Limit(EQL)

Laboratory Certification Numbers:
A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
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REPORT OF ANALYSIS

Mr. John Rockhold
Terracon
13910 West 96th Terrace
Lenexa, KS 66215

March 22,2002

Date Received : March 14, 2002
Description : WGPSC-Buffalo OK
Sample ID : BUFF-MH-SD-3A
Collected By :
Collection Date : 03/12/02 13:25

ESC Sample # : L71351-22
ESC Key : WILGASKS-TERRACON
Site ID :
Project # : 50007055

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	93.6		%	2540G	03/15/02	1
Mercury	2.6	0.21	mg/kg	7471	03/19/02	10

Tom Mallette, ESC Representative

Results listed are dry weight basis.
BDL - Below Detection Limit
Det. Limit - Estimated Quantitation Limit(EQL)

Laboratory Certification Numbers:
A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
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REPORT OF ANALYSIS

Mr. John Rockhold
Terracon
13910 West 96th Terrace
Lenexa, KS 66215

March 22,2002

Date Received : March 14, 2002
Description : WGPSC-Buffalo OK
Sample ID : BUFF-MH-SD-3B
Collected By :
Collection Date : 03/12/02 13:25

ESC Sample # : L71351-23
ESC Key : WILGASKS-TERRACON
Site ID :
Project # : 50007055

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	82.0		%	2540G	03/15/02	1
Mercury	0.068	0.024	mg/kg	7471	03/15/02	1

Tom Mellette, ESC Representative

Results listed are dry weight basis.
BDL - Below Detection Limit
Det. Limit - Estimated Quantitation Limit(EQL)

Laboratory Certification Numbers:
A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - 1-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
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Est. 1970

REPORT OF ANALYSIS

Mr. John Rockhold
Terracon
13910 West 96th Terrace
Lenexa, KS 66215

March 22,2002

Date Received : March 14, 2002
Description : WGPSC-Buffalo OK
Sample ID : BUFF-MH-SD-4A
Collected By :
Collection Date : 03/12/02 13:30

ESC Sample # : L71351-24
ESC Key : WILGASKS-TERRACON
Site ID :
Project # : 50007055

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	87.6		%	2540G	03/15/02	1
Mercury	0.18	0.023	mg/kg	7471	03/15/02	1

Tom Mellette, ESC Representative

Results listed are dry weight basis.
BDL - Below Detection Limit
Det. Limit - Estimated Quantitation Limit(EQL)

Laboratory Certification Numbers:
A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
KY - 90010, KYUST - 0016, NC - ENV375,DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233

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REPORT OF ANALYSIS

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Terracon
13910 West 96th Terrace
Lenexa, KS 66215

March 22,2002

Date Received : March 14, 2002
Description : WGPSC-Buffalo OK
Sample ID : BUFF-MH-SD-4B
Collected By :
Collection Date : 03/12/02 13:30

ESC Sample # : L71351-25
ESC Key : WILGASKS-TERRACON
Site ID :
Project # : 50007055

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	92.3		%	2540G	03/15/02	1
Mercury	BDL	0.022	mg/kg	7471	03/15/02	1

Tom Mellette, ESC Representative

Results listed are dry weight basis.
BDL - Below Detection Limit
Det. Limit - Estimated Quantitation Limit(EQL)

Laboratory Certification Numbers:
A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
KY - 90010, KYUST - 0016, NC - ENV375,DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233

Note:
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Terracon
13910 West 96th Terrace
Lenexa, Kansas 66215
Phone: (913) 492-7777
Fax: (913) 492-7443

CHAIN OF CUSTODY / LABORATORY ANALYSIS REQUEST

PAGE ___ OF ___

SPECIAL INSTRUCTIONS
Bill To Williams Gas Pipeline South Central
Attn.: Mark Sullivan
RUSH TAT!!

PROJECT NAME: WGPSC-Buffalo, OK
PROJECT NUMBER: 50007055
SAMPLER (SIGNATURE):
RESULTS ATTENTION TO: Tony Poulter (Terracon)

L71351

SAMPLE I.D.	DATE	TIME	MATRIX	PRESERVATIVE: COOL/ICE	HCl	H_2SO_4	HNO_3	AW/AP	NONE	NUMBER OF CONTAINERS	ANALYSIS: METHOD 7471A MERCURY	REMARKS	
BUFF-MH-ND-2A	3/12/02	12:50	Soil	x						1	x	Ok To Run	18
BUFF-MH-ND-2B	3/12/02	12:50	Soil	x						1	x	Ok To Run	19
BUFF-MH-ND-2C	3/12/02	12:50	Soil	x						1	x	Hold	
BUFF-MH-ND-1A	3/12/02	13:15	Soil	x						1	x	Ok To Run	20
BUFF-MH-ND-1B	3/12/02	13:15	Soil	x						1	x	Ok To Run	21
BUFF-MH-ND-1C	3/12/02	13:15	Soil	x						1	x	Hold	
BUFF-MH-SD-3A	3/12/02	13:25	Soil	x						1	x	Ok To Run	22
BUFF-MH-SD-3B	3/12/02	13:25	Soil	x						1	x	Ok To Run	23
BUFF-MH-SD 3C	3/12/02	13:25	Soil	x						1	x	Hold	
BUFF-MH-SD-4A	3/12/02	13:30	Soil	x						1	x	Ok To Run	24
BUFF-MH-SD-4B	3/12/02	13:30	Soil	x						1	x	Ok To Run	25
BUFF-MH-SD4C	3/12/02	13:30	Soil	x						1	x	Hold	

SHIPPING VIA: Fed-Ex
SHIPPING NO.:
PRIORITY: P-1

LABORATORY PRIORITY
___ 24- Hour x 48 hour TAT OTHER
___ PROVIDE VERBAL PRELIMINARY RESULTS FAX

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
SIGNATURE	SIGNATURE	SIGNATURE	SIGNATURE
Tony Poulter			Jason Estes
PRINTED NAME	PRINTED NAME	PRINTED NAME	PRINTED NAME
TERRACON			3-14-02 09:45
FIRM	FIRM	FIRM	FIRM
DATE/TIME	DATE/TIME	DATE/TIME	DATE/TIME

123

NC

APPENDIX G

SAFETY-KLEEN, INC. UNIFORM HAZARDOUS WASTE MANIFESTS AND PCB WASTE DISPOSAL CERTIFICATES

TK551 - TR929 SW0-50173
LM-

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039 Expires 9-30-99

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. OK0000963348
Manifest Document No. BF 601
2. Page 1 of
Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
WILLIAMS GAS PIPELINE ---BUFFALO, OK
13430 WEST 98TH ST BLDG 5, SHAWNEE MISSION, KS 66215
4. Generator's Phone (913) 310-7625

A. State Manifest Document Number
B. State Generator's ID

5. Transporter 1 Company Name
NF ENVIRONMENTAL
6. US EPA ID Number CAT000624247
C. State Transporter's ID
D. Transporter's Phone (888) 637-8009

7. Transporter 2 Company Name
8. US EPA ID Number
E. State Transporter's ID
F. Transporter's Phone

9. Designated Facility Name and Site Address
SAFETY-KLEEN(LONE MOUNTAIN)INC
5E & 1N OF JCT 412 & 281
WAYNOKA, OK 73860-9622
10. US EPA ID Number OKD065438376
G. State Facility's ID
H. Facility's Phone (580) 697-3500

11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)	HM	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. POLYCHLORINATED BIPHENYLS, 9, NA2315, III, RQ(PCB'S)	RQ	001	DT	Est 18000	K	NONE
b.						
c.						
d.						

J. Additional Descriptions for Materials Listed Above
Additional EPA Waste Codes a. b. c. d.

K. Handling Codes for Wastes Listed Above
a. H132 b. c. d. SW 50100

15. Special Handling Instructions and Additional Information
Approval Numbers a. LN99-0131-06 b. c. d.
Emergency Contact: 913-310-7625
DATE OF REMOVAL FROM SERVICE 8/20/02

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.

If I am a 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 small quantity 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: Danny L Larkey
Signature: Danny L Larkey
Date: Month 08 Day 20 Year 02

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: LeRoy Zelenka
Signature: LeRoy Zelenka
Date: Month 8 Day 20 Year 02

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name
Signature
Date: Month Day Year

19. Discrepancy Indication Space
Sec. 13 - per Mark Sullivan - Most weight is estimated.
Resolve to Lone Mountain Weight 22728 K. 8/21/02 VS
02-3857

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.
Printed/Typed Name: BER DEANE PECK
Signature: Ber Deane Peck
Date: Month 08 Day 20 Year 02

GENERATOR / TRANSPORTER / FACILITY

EPA Form 8700-22 (Rev. 9-88) previous editions obsolete

SAFETY-KLEEN CORP.
90290 (Rev 11/98) 6

ORIGINAL - RETURN TO GENERATOR

223. U.S. Environmental Protection Agency, 401 M Street, SW, Washington, DC 20460; and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, DC 20503.

INSTRUCTIONS FOR COMPLETION OF THIS FORM, REFER CODE OF FEDERAL REGULATIONS 40 PART 262.20

PCB WASTE - CERTIFICATE OF DISPOSAL

Safety-Kleen (Lone and Grassy Mountain), Inc.
Lone Mountain Facility
Route 2, Box 170
Waynoka, OK 73860
EPA ID # - OKD065438376

As required by 40 CFR 761.218, we are providing this Certificate of Disposal to WILLIAMS GAS PIPELINE -BUFFALO, EPA ID # OK0000963348 to confirm that

LINE	PROFILE No.	WASTE NAME	WEIGHT Kg	TYPE	CNTNRS	DISPOSED
1/A	LM99-0131-06	3006068 PCB SOIL & DEBRIS	22721.09	BULK	1	08/20/02

shipped on manifest number OK0000963348-BF001 was/were disposed in a RCRA hazardous waste landfill.

Under civil and criminal penalties of law for the making or submission of false or fraudulant statements or representations (18 U.S.C. 1001 and 15 U.S.C. 2615), I certify that the information contained in or accompanying this document is true, accurate, and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy, I certify as the company official having supervisory responsibility for the person who, acting under my direct instructions, made the verification that this information is true, accurate, and complete.

Doug McLain

Doug McLain, Facility Manager

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039 Expires 9-30-99

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. OK0000963348 Manifest Document No. BF 002

2. Page 1 of 1

Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
WILLIAMS GAS PIPELINE ---BUFFALO, OK
13430 WEST 98TH ST BLDG 5, SHAWNEE MISSION, KS 66215

4. Generator's Phone (913) 310-7625

A. State Manifest Document Number

B. State Generator's ID

5. Transporter 1 Company Name: NF ENVIRONMENTAL

6. US EPA ID Number: CAT000624247

C. State Transporter's ID

D. Transporter's Phone (888) 637-8869

7. Transporter 2 Company Name

8. US EPA ID Number

E. State Transporter's ID

F. Transporter's Phone

9. Designated Facility Name and Site Address
SAFETY-KLEEN(LONE MOUNTAIN)INC
5E & 1N OF JCT 412 & 281
WAYNOKA, OK. 73860-9622

10. US EPA ID Number: OKD065438376

G. State Facility's ID

H. Facility's Phone (580) 697-3500

	11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)	HM	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a.	POLYCHLORINATED BIPHENYLS, 9, NA2315, III, RQ(PCB'S)	X	001	DT	EST 18000	K	NONE
b.							
c.							
d.							

J. Additional Descriptions for Materials Listed Above
Additional a.
EPA Waste b.
Codes c.
d.

K. Handling Codes for Wastes Listed Above
a. H132
b.
c.
d.
SW 56780

15. Special Handling Instructions and Additional Information
Approval Numbers a. LN99-0131-06 b. c. d.
Emergency Contact: 913-310-7625
DATE OF REMOVAL FROM SERVICE 08/20/02
Svc # 50178

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.

If I am a 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 small quantity 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: Danny L Carkey — Signature: Danny L Carkey — Date: Month 08 Day 20 Year 02

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: Erix M. Willson — Signature: Erix M. Willson — Date: Month 08 Day 20 Year 02

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name — Signature — Date: Month Day Year

19. Discrepancy Indication Space
Sec. 13 - per Mark Sullivan - Most weight is estimated.
Resolve to Lone Mountain Weight 25758 K. 8/21/02 (TS)
02-3859

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.

Printed/Typed Name: BER DEANE PECK — Signature: Ber Deane Peck — Date: Month 08 Day 20 Year 02

GENERATOR — TRANSPORTER — FACILITY

EPA Form 8700-22 (Rev. 9-88) previous editions obsolete

SAFETY-KLEEN CORP.

90290 (Rev 11/98) 6

ORIGINAL - RETURN TO GENERATOR

INSTRUCTIONS FOR COMPLETION OF THIS FORM, REFER CODE OF FEDERAL REGULATIONS 40 PART 262.20

223, U.S. Environmental Protection Agency, 401 M Street, SW, Washington, DC 20460; and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, DC 20503.

PCB WASTE - CERTIFICATE OF DISPOSAL

Safety-Kleen (Lone and Grassy Mountain), Inc.
Lone Mountain Facility
Route 2, Box 170
Waynoka, OK 73860
EPA ID # - OKD065438376

As required by 40 CFR 761.218, we are providing this Certificate of Disposal to WILLIAMS GAS PIPELINE -BUFFALO, EPA ID # OK0000963348 to confirm that

LINE	PROFILE No.	WASTE NAME	WEIGHT Kg	TYPE	CNTNRS	DISPOSED
1/A	LM99-0131-06	3006068 PCB SOIL & DEBRIS	25750.57	BULK	1	08/20/02

shipped on manifest number OK0000963348-BF002 was/were disposed in a RCRA hazardous waste landfill.

Under civil and criminal penalties of law for the making or submission of false or fraudulant statements or representations (18 U.S.C. 1001 and 15 U.S.C. 2615), I certify that the information contained in or accompanying this document is true, accurate, and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy, I certify as the company official having supervisory responsibility for the person who, acting under my direct instructions, made the verification that this information is true, accurate, and complete.

Doug McLain

Doug McLain, Facility Manager

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039 Expires 9-30-99

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. OK0000963348 | Manifest Document No. BF 003 | 2. Page 1 of

Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
WILLIAMS GAS PIPELINE ---BUFFALO, OK
13430 WEST 98TH ST BLDG 5, SHAWNEE MISSION, KS 66215

4. Generator's Phone (913) 310-7625

A. State Manifest Document Number
B. State Generator's ID

5. Transporter 1 Company Name: NF ENVIRONMENTAL
6. US EPA ID Number: CAT000624247
C. State Transporter's ID
D. Transporter's Phone (888) 637-8089

7. Transporter 2 Company Name
8. US EPA ID Number
E. State Transporter's ID
F. Transporter's Phone

9. Designated Facility Name and Site Address
SAFETY-KLEEN(LONE MOUNTAIN)INC
5E & 1N OF JCT 412 & 281
WAYNOKA, OK 73860-9622
10. US EPA ID Number: OKD065438376
G. State Facility's ID
H. Facility's Phone (580) 697-3500

11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)	HM	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. POLYCHLORINATED BIPHENYLS, 9, NA2315, III, RQ(PCB'S)	X	001	DT	EST 18000	K	NONE
b.						
c.						
d.						

J. Additional Descriptions for Materials Listed Above
Additional RCRA Waste Codes a. b. c. d.

K. Handling Codes for Wastes Listed Above
a. H132 b. c. d.
SW 43720

15. Special Handling Instructions and Additional Information
Approval Numbers a. LN99-0131-06 b. c. d.
Emergency Contact: 913-310-7625
DATE OF REMOVAL FROM SERVICE 08/20/02

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.

If I am a 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 small quantity 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: Danny L Larkey | Signature: Danny L Larkey | Date: Month 08 Day 20 Year 02

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: STONY AVANTS | Signature: Stony Avants | Date: Month 08 Day 20 Year 02

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name | Signature | Date: Month Day Year

19. Discrepancy Indication Space
02-3861

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.
Printed/Typed Name: BERDEANE PECK | Signature: Ber Deane Peck | Date: Month 08 Day 20 Year 02

GENERATOR TRANSPORTER FACILITY

EPA Form 8700-22 (Rev. 9-88) previous editions obsolete

SAFETY-KLEEN CORP.

90290 (Rev 11/98) 6

ORIGINAL - RETURN TO GENERATOR

INSTRUCTIONS FOR COMPLETION OF THIS FORM, REFER CODE OF FEDERAL REGULATIONS 40 PART 262

223, U.S. Environmental Protection Agency, 401 M Street, SW, Washington, DC 20460; and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, DC 20503.

PCB WASTE - CERTIFICATE OF DISPOSAL

Safety-Kleen (Lone and Grassy Mountain), Inc.
Lone Mountain Facility
Route 2, Box 170
Waynoka, OK 73860
EPA ID # - OKD065438376

As required by 40 CFR 761.218, we are providing this Certificate of Disposal to WILLIAMS GAS PIPELINE -BUFFALO, EPA ID # OK0000963348 to confirm that

LINE	PROFILE NO.	WASTE NAME	WEIGHT Kg	TYPE	CNTNRS	DISPOSED
1/A	LM99-0131-06	3006068 PCB SOIL & DEBRIS	19827.66	BULK	1	08/20/02

shipped on manifest number OK0000963348-BF003 was/were disposed in a RCRA hazardous waste landfill.

Under civil and criminal penalties of law for the making or submission of false or fraudulant statements or representations (18 U.S.C. 1001 and 15 U.S.C. 2615), I certify that the information contained in or accompanying this document is true, accurate, and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy, I certify as the company official having supervisory responsibility for the person who, acting under my direct instructions, made the verification that this information is true, accurate, and complete.

Doug McLain

Doug McLain, Facility Manager

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039 Expires 9-30-99

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. OK0000963348
Manifest Document No. BF 004
2. Page 1 of
Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
WILLIAMS GAS PIPELINE ---BUFFALO, OK
13430 WEST 98TH ST BLDG 5, SHAWNEE MISSION, KS 66215
4. Generator's Phone (913) 310-7625

A. State Manifest Document Number
B. State Generator's ID

5. Transporter 1 Company Name
HP ENVIRONMENTAL
6. US EPA ID Number
CAT000624247
C. State Transporter's ID
D. Transporter's Phone (888) 637-8003

7. Transporter 2 Company Name
8. US EPA ID Number
E. State Transporter's ID
F. Transporter's Phone

9. Designated Facility Name and Site Address
SAFETY-KLEEN (LONE MOUNTAIN) INC.
5E & 1N OF JCT 412 & 281
WAYNOKA, OK 73860-9622
10. US EPA ID Number
OKD065438376
G. State Facility's ID
H. Facility's Phone (580) 697-3500

	11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)	HM	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a.	POLYCHLORINATED BIPHENYLS, 9, NA2315, III, RQ(PCB'S)	RQ	001	DT	EST 18000	K	NONE
b.							
c.							
d.							

J. Additional Descriptions for Materials Listed Above
Additional EPA Waste Codes a. b. c. d.

K. Handling Codes for Wastes Listed Above
a. H132 b. c. d. SW60420

15. Special Handling Instructions and Additional Information
Approval Numbers a.LN99-0131-06 b. c. d.
Emergency Contact: 913-310-7625
DATE OF REMOVAL FROM SERVICE 08/20/02

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.

If I am a 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 small quantity 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: Danny L Larkell
Signature: Danny L Larkell
Date: Month 08 Day 20 Year 02

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Rinnie Stealey
Signature: Rinnie Stealey
Date: Month 08 Day 20 Year 02

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name
Signature
Date: Month Day Year

FACILITY

19. Discrepancy Indication Space
Sec. 13 - per Mark Sullivan - Most weight is estimated.
Resolve to Lone Mountain Weight 27408 K. 8/21/02
02-3860

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.
Printed/Typed Name: BERDEANE PECK
Signature: Ber Deane Peck
Date: Month 08 Day 20 Year 02

EPA Form 8700-22 (Rev. 9-88) previous editions obsolete

SAFETY-KLEEN CORP.

90290 (Rev 11/98) 6

ORIGINAL - RETURN TO GENERATOR

INSTRUCTIONS FOR COMPLETION OF THIS FORM, REFER CODE OF FEDERAL REGULATIONS 40 PART 262.22

223, U.S. Environmental Protection Agency, 401 M Street, SW, Washington, DC 20460, and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, DC 20503.

PCB WASTE - CERTIFICATE OF DISPOSAL

Safety-Kleen (Lone and Grassy Mountain), Inc.
Lone Mountain Facility
Route 2, Box 170
Waynoka, OK 73860
EPA ID # - OKD065438376

As required by 40 CFR 761.218, we are providing this Certificate of Disposal to WILLIAMS GAS PIPELINE -BUFFALO, EPA ID # OK0000963348 to confirm that

LINE	PROFILE No.	WASTE NAME	WEIGHT Kg	TYPE	CNTNRS	DISPOSED
1/A	LM99-0131-06	3006068 PCB SOIL & DEBRIS	27401.36	BULK	1	08/20/02

shipped on manifest number OK0000963348-BF004 was/were disposed in a RCRA hazardous waste landfill.

Under civil and criminal penalties of law for the making or submission of false or fraudulant statements or representations (18 U.S.C. 1001 and 15 U.S.C. 2615), I certify that the information contained in or accompanying this document is true, accurate, and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy, I certify as the company official having supervisory responsibility for the person who, acting under my direct instructions, made the verification that this information is true, accurate, and complete.

Doug McLain

Doug McLain, Facility Manager

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039 Expires 9-30-99

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. OK0000963348 | Manifest Document No. BF 005 | 2. Page 1 of

Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
WILLIAMS GAS PIPELINE ---BUFFALO, OK
13430 WEST 98TH ST BLDG 5, SHAWNEE MISSION, KS 66215

4. Generator's Phone (913) 310-7625

A. State Manifest Document Number

B. State Generator's ID

5. Transporter 1 Company Name: HP ENVIRONMENTAL

6. US EPA ID Number: CAT000624247

C. State Transporter's ID

D. Transporter's Phone: (888) 637-8009

7. Transporter 2 Company Name

8. US EPA ID Number

E. State Transporter's ID

F. Transporter's Phone

9. Designated Facility Name and Site Address
SAFETY-KLEEN(LONE MOUNTAIN)INC
5E & 1N OF JCT 412 & 281
WAYNOKA, OK 73860-9622

10. US EPA ID Number: OKD065438376

G. State Facility's ID

H. Facility's Phone: (580) 697-3500

11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)	HM		12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a.	RQ	POLYCHLORINATED BIPHENYLS, 9, NA2315, III, RQ(PCB'S)	001	DT	EST 18000	K	NONE
b.							
c.							
d.							

J. Additional Descriptions for Materials Listed Above
Additional EPA Waste Codes a. b. c. d.

K. Handling Codes for Wastes Listed Above
a. H132
b.
c.
d.

SW 56760

15. Special Handling Instructions and Additional Information
Approval Numbers a. LM99-0131-06 b. c. d.
Emergency Contact: 913-310-7625

DATE OF REMOVAL FROM SERVICE 08/20/02

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.

If I am a 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 small quantity 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: Danny L Larkey | Signature: Danny L Larkey | Date: Month 08 Day 20 Year 02

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Steve Etherton | Signature: [signature] | Date: Month 08 Day 20 Year 02

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name | Signature | Date: Month Day Year

19. Discrepancy Indication Space
Sec. 13 - per Mark Sullivan - Most weight is estimated.
Resolve to Lone Mountain Weight 25748 K. 8/21/02 02-3862

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.
Printed/Typed Name: BER DEANE PECK | Signature: Ber Deane Peck | Date: Month 08 Day 20 Year 02

GENERATOR / TRANSPORTER / FACILITY

EPA Form 8700-22 (Rev. 9-88) previous editions obsolete

SAFETY-KLEEN CORP.

90290 (Rev 11/98) 6

ORIGINAL - RETURN TO GENERATOR

INSTRUCTIONS FOR COMPLETION OF THIS FORM, REFER CODE OF FEDERAL REGULATIONS 40 PART 262.20

223, U.S. Environmental Protection Agency, 401 M Street, SW, Washington, DC 20460; and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, DC 20503.

PCB WASTE - CERTIFICATE OF DISPOSAL

Safety-Kleen (Lone and Grassy Mountain), Inc.
Lone Mountain Facility
Route 2, Box 170
Waynoka, OK 73860
EPA ID # - OKD065438376

As required by 40 CFR 761.218, we are providing this Certificate of Disposal to WILLIAMS GAS PIPELINE -BUFFALO, EPA ID # OK0000963348 to confirm that

LINE	PROFILE No.	WASTE NAME	WEIGHT Kg	TYPE	CNTNRS	DISPOSED
1/A	LM99-0131-06	3006068 PCB SOIL & DEBRIS	25741.50	BULK	1	08/20/02

shipped on manifest number OK0000963348-BF005 was/were disposed in a RCRA hazardous waste landfill.

Under civil and criminal penalties of law for the making or submission of false or fraudulant statements or representations (18 U.S.C. 1001 and 15 U.S.C. 2615), I certify that the information contained in or accompanying this document is true, accurate, and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy, I certify as the company official having supervisory responsibility for the person who, acting under my direct instructions, made the verification that this information is true, accurate, and complete.

Doug McLain

Doug McLain, Facility Manager

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039 Expires 9-30-99

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. OK0000963348 | Manifest Document No. BF 006 | 2. Page 1 of 1 | Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
WILLIAMS GAS PIPELINE ---BUFFALO, OK
13430 WEST 98TH ST BLDG 5, SHAWNEE MISSION, KS 66215

4. Generator's Phone (913) 318-7625

A. State Manifest Document Number
B. State Generator's ID

5. Transporter 1 Company Name: HP ENVIRONMENTAL | 6. US EPA ID Number: CAT000624247
C. State Transporter's ID
D. Transporter's Phone (888) 637-8009

7. Transporter 2 Company Name | 8. US EPA ID Number
E. State Transporter's ID
F. Transporter's Phone

9. Designated Facility Name and Site Address
SAFETY-KLEEN(LONE MOUNTAIN)INC
5E & 1N OF JCT 412 & 281
WAYNOKA, OK 73860-9622

10. US EPA ID Number: OKD065438376
G. State Facility's ID
H. Facility's Phone (580) 697-3500

GENERATOR

11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)	HM	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. POLYCHLORINATED BIPHENYLS, 9, NA2315, III, RQ(PCB'S)	RQ	001	DT	EST 18000	K	NONE
b.						
c.						
d.						

J. Additional Descriptions for Materials Listed Above
Additional RCRA Waste Codes: a. D009 b. c. d.
TCLP 9/9 SW-5010

K. Handling Codes for Wastes Listed Above
a. H132 b. c. d. SW 43100

15. Special Handling Instructions and Additional Information
Approval Numbers: a. LN99-0131-06 b. c. d.
Emergency Contact: 913-318-7625
DATE OF REMOVAL FROM SERVICE 08/20/02

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.

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Printed/Typed Name: Danny L Larkey | Signature: Danny L Larkey | Date: Month 08 Day 20 Year 02

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Allen D Moore | Signature: Allen D Moore | Date: Month 08 Day 20 Year 02

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name | Signature | Date: Month Day Year

FACILITY

19. Discrepancy Indication Space
02-3863

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.
Printed/Typed Name: BERDEANE PECK | Signature: Ber Deane Peck | Date: Month 08 Day 20 Year 02

EPA Form 8700-22 (Rev. 9-88) previous editions obsolete

SAFETY-KLEEN CORP.

90290 (Rev 11/98) 6

ORIGINAL - RETURN TO GENERATOR

INSTRUCTIONS FOR COMPLETION OF THIS FORM, REFER CODE OF FEDERAL REGULATIONS 40 PART 262

223, U.S. Environmental Protection Agency, 401 M Street, SW, Washington, DC 20460; and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, DC 20503.

PCB WASTE - CERTIFICATE OF DISPOSAL

Safety-Kleen (Lone and Grassy Mountain), Inc.
Lone Mountain Facility
Route 2, Box 170
Waynoka, OK 73860
EPA ID # - OKD065438376

As required by 40 CFR 761.218, we are providing this Certificate of Disposal to WILLIAMS GAS PIPELINE -BUFFALO, EPA ID # OK0000963348 to confirm that

LINE	PROFILE No.	WASTE NAME	WEIGHT Kg	TYPE	CNTNRS	DISPOSED
1/A	LM99-0131-06	3006068 PCB SOIL & DEBRIS	19546.49	BULK	1	08/20/02

shipped on manifest number OK0000963348-BF006 was/were disposed in a RCRA hazardous waste landfill.

Under civil and criminal penalties of law for the making or submission of false or fraudulant statements or representations (18 U.S.C. 1001 and 15 U.S.C. 2615), I certify that the information contained in or accompanying this document is true, accurate, and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy, I certify as the company official having supervisory responsibility for the person who, acting under my direct instructions, made the verification that this information is true, accurate, and complete.

Doug McLain

Doug McLain, Facility Manager

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039 Expires 9-30-99

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. OK0000963348
Manifest Document No. BF 007
2. Page 1 of 1

Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
WILLIAMS GAS PIPELINE ---BUFFALO, OK
13430 WEST 98TH ST BLDG 5, SHAWNEE MISSION, KS 66215
4. Generator's Phone (913) 310-7625

A. State Manifest Document Number
B. State Generator's ID

5. Transporter 1 Company Name
NF ENVIRONMENTAL
6. US EPA ID Number CAT000624247

C. State Transporter's ID
D. Transporter's Phone (888) 637-8889

7. Transporter 2 Company Name
8. US EPA ID Number

E. State Transporter's ID
F. Transporter's Phone

9. Designated Facility Name and Site Address
SAFETY-KLEEN(LONE MOUNTAIN)INC
5E & 1N OF JCT 412 & 281
WAYNOKA, OK 73860-9622
10. US EPA ID Number OKD065438376

G. State Facility's ID
H. Facility's Phone (580) 697-3500

	11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)	HM	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a.	POLYCHLORINATED BIPHENYLS, 9, NA2315, III, RQ(PCB'S)	RQ	001	DT	EST 18000	K	NONE
b.							
c.							
d.							

J. Additional Descriptions for Materials Listed Above
Additional RCRA Waste Codes a. b. c. d.

K. Handling Codes for Wastes Listed Above
a. H132
b.
c.
d.
SW 57380

15. Special Handling Instructions and Additional Information
Approval Numbers a. KN99-0131-06 b. c. d.
Emergency Contact: 913-310-7625
DATE OF REMOVAL FROM SERVICE 08/20/02

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.

If I am a 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 small quantity 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: Danny L Larkey
Signature: Danny L Larkey
Date: Month 08 Day 20 Year 02

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Lonnie Blair
Signature: Lonnie Blair
Date: Month 08 Day 20 Year 02

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name
Signature
Date: Month Day Year

19. Discrepancy Indication Space
Sec. 13 - per Mark Sullivan - Most weight is estimated.
Resolve to Lone Mountain Weight 26030K 8/21/02 (JS) 02-3865

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.
Printed/Typed Name: BERDEANE PECK
Signature: Berdeane Peck
Date: Month 08 Day 20 Year 02

GENERATOR / TRANSPORTER / FACILITY

EPA Form 8700-22 (Rev. 9-88) previous editions obsolete

SAFETY-KLEEN CORP.

90290 (Rev 11/98) 6

ORIGINAL - RETURN TO GENERATOR

INSTRUCTIONS FOR COMPLETION OF THIS FORM, REFER CODE OF FEDERAL REGULATIONS 40 PART 262

U.S. Environmental Protection Agency, 401 M Street, SW, Washington, DC 20460; and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, DC 20503.

PCB WASTE - CERTIFICATE OF DISPOSAL

Safety-Kleen (Lone and Grassy Mountain), Inc.
Lone Mountain Facility
Route 2, Box 170
Waynoka, OK 73860
EPA ID # - OKD065438376

As required by 40 CFR 761.218, we are providing this Certificate of Disposal to WILLIAMS GAS PIPELINE -BUFFALO, EPA ID # OK0000963348 to confirm that

LINE	PROFILE No.	WASTE NAME	WEIGHT Kg	TYPE	CNTNRS	DISPOSED
1/A	LM99-0131-06	3006068 PCB SOIL & DEBRIS	26022.68	BULK	1	08/20/02

shipped on manifest number OK0000963348-BF007 was/were disposed in a RCRA hazardous waste landfill.

Under civil and criminal penalties of law for the making or submission of false or fraudulant statements or representations (18 U.S.C. 1001 and 15 U.S.C. 2615), I certify that the information contained in or accompanying this document is true, accurate, and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy, I certify as the company official having supervisory responsibility for the person who, acting under my direct instructions, made the verification that this information is true, accurate, and complete.

Doug McLain

Doug McLain, Facility Manager

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039 Expires 9-30-99

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. OK0000963348 | Manifest Document No. BF 008 | 2. Page 1 of

Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
WILLIAMS GAS PIPELINE ---BUFFALO, OK
13430 WEST 98TH ST BLDG 5, SHAWNEE MISSION, KS 66215

4. Generator's Phone (913) 310-7625

A. State Manifest Document Number

B. State Generator's ID

5. Transporter 1 Company Name: NF ENVIRONMENTAL

6. US EPA ID Number: CAT000624247

C. State Transporter's ID

D. Transporter's Phone: (888) 637-8009

7. Transporter 2 Company Name

8. US EPA ID Number

E. State Transporter's ID

F. Transporter's Phone

9. Designated Facility Name and Site Address
SAFETY-KLEEN(LONE MOUNTAIN)INC
5E & 1N OF JCT 412 & 281
WAYNOKA, OK 73860-9622

10. US EPA ID Number: OKD065438376

G. State Facility's ID

H. Facility's Phone: (580) 697-3500

	11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)	HM	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a.	POLYCHLORINATED BIPHENYLS, 9, NA2315, III, RQ(PCB'S)	RQ	001	DT	EST 10000	K	NONE
b.							
c.							
d.							

J. Additional Descriptions for Materials Listed Above
Additional RCRA Waste Codes a. b. c. d.

K. Handling Codes for Wastes Listed Above
a. H132 b. c. d. SW 506000

15. Special Handling Instructions and Additional Information
Approval Numbers a.LK99-0131-06 b. c. d.
Emergency Contact: 913-310-7625
DATE OF REMOVAL FROM SERVICE 08/20/02

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.

If I am a 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 small quantity 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: Danny L Larkey | Signature: Danny L Larkey | Date: Month 08 Day 20 Year 02

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: Leon McDaniels | Signature: Leon McDaniels | Date: Month 08 Day 20 Year 02

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name | Signature | Date: Month Day Year

Sec. 13 - per Mark Sullivan - Most weight is estimated.

19. Discrepancy Indication Space
Resolve to Lone Mountain Weight 22955K. 8/21/02 VS

02-3869

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.

Printed/Typed Name: Wesley Hope | Signature: Wesley Hope | Date: Month 08 Day 20 Year 02

GENERATOR / TRANSPORTER / FACILITY

EPA Form 8700-22 (Rev. 9-88) previous editions obsolete

SAFETY-KLEEN CORP.

90290 (Rev 11/98) 6

ORIGINAL - RETURN TO GENERATOR

223, U.S. Environmental Protection Agency, 401 M Street, SW, Washington, DC 20460; and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, DC 20503.

INSTRUCTIONS FOR COMPLETION OF THIS FORM, REFER CODE OF FEDERAL REGULATIONS, 40 PART 262.20

PCB WASTE - CERTIFICATE OF DISPOSAL

Safety-Kleen (Lone and Grassy Mountain), Inc.
Lone Mountain Facility
Route 2, Box 170
Waynoka, OK 73860
EPA ID # - OKD065438376

As required by 40 CFR 761.218, we are providing this Certificate of Disposal to WILLIAMS GAS PIPELINE -BUFFALO, EPA ID # OK0000963348 to confirm that

LINE	PROFILE No.	WASTE NAME	WEIGHT Kg	TYPE	CNTNRS	DISPOSED
1/A	LM99-0131-06	3006068 PCB SOIL & DEBRIS	22947.85	BULK	1	08/20/02

shipped on manifest number OK0000963348-BF008 was/were disposed in a RCRA hazardous waste landfill.

Under civil and criminal penalties of law for the making or submission of false or fraudulant statements or representations (18 U.S.C. 1001 and 15 U.S.C. 2615), I certify that the information contained in or accompanying this document is true, accurate, and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy, I certify as the company official having supervisory responsibility for the person who, acting under my direct instructions, made the verification that this information is true, accurate, and complete.

Doug McLain

Doug McLain, Facility Manager

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039 Expires 9-30-99

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. OK0000963348 — Manifest Document No. BF 009

2. Page 1 of

Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
WILLIAMS GAS PIPELINE ---BUFFALO, OK
13430 WEST 98TH ST BLDG 5, SHAWNEE MISSION, KS 66215

4. Generator's Phone (913) 310-7625

A. State Manifest Document Number

B. State Generator's ID

5. Transporter 1 Company Name: HP ENVIRONMENTAL

6. US EPA ID Number: CAT000624247

C. State Transporter's ID

D. Transporter's Phone: (800) 637-8049

7. Transporter 2 Company Name

8. US EPA ID Number

E. State Transporter's ID

F. Transporter's Phone

9. Designated Facility Name and Site Address
SAFETY-KLEEN(LONE MOUNTAIN)INC
5K & 1N OF JCT 412 & 201
WAYNOKA, OK 73860-9622

10. US EPA ID Number: OKD065438376

G. State Facility's ID

H. Facility's Phone: (580) 697-3500

11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)	HM		12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a.	R Q	POLYCHLORINATED BIPHENYLS, 9, NA2315, III, RQ(PCB'S)	001	DT	EST 18000	K	NONE
b.							
c.							
d.							

J. Additional Descriptions for Materials Listed Above
Additional EPA Waste Codes a. b. c. d.

K. Handling Codes for Wastes Listed Above
a. H132 b. c. d.

SW 49280

15. Special Handling Instructions and Additional Information
Approval Numbers a. LM99-0131-06 b. c. d.
Emergency Contact: 913-310-7625

DATE OF REMOVAL FROM SERVICE 08/20/02

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.

If I am a 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 small quantity 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: Danny L Larkey — Signature: Danny L Larkey — Date: Month 08 Day 20 Year 02

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Tom Lemke — Signature: Tom Lemke — Date: Month 08 Day 20 Year 02

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name — Signature — Date: Month Day Year

19. Discrepancy Indication Space
Sec. 13 - per Mark Sullivan - Most weight is estimated.
Resolve to Lone Mountain Weight 22356 K. 8/21/02 VS

02-3866

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.
Printed/Typed Name: Wesley Hope — Signature: Wesley Hope — Date: Month 08 Day 20 Year 02

GENERATOR — TRANSPORTER — FACILITY

EPA Form 8700-22 (Rev. 9-88) previous editions obsolete

SAFETY-KLEEN CORP.

90290 (Rev 11/98) 6

ORIGINAL - RETURN TO GENERATOR

INSTRUCTIONS FOR COMPLETION OF THIS FORM, REFER CODE OF FEDERAL REGULATIONS, 40, PART 262.20

223, U.S. Environmental Protection Agency, 401 M Street, SW, Washington, DC 20460; and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, DC 20503.

PCB WASTE - CERTIFICATE OF DISPOSAL

Safety-Kleen (Lone and Grassy Mountain), Inc.
Lone Mountain Facility
Route 2, Box 170
Waynoka, OK 73860
EPA ID # - OKD065438376

As required by 40 CFR 761.218, we are providing this Certificate of Disposal to WILLIAMS GAS PIPELINE -BUFFALO, EPA ID # OK0000963348 to confirm that

LINE	PROFILE No.	WASTE NAME	WEIGHT Kg	TYPE	CNTNRS	DISPOSED
1/A	LM99-0131-06	3006068 PCB SOIL & DEBRIS	22349.21	BULK	1	08/20/02

shipped on manifest number OK0000963348-BF009 was/were disposed in a RCRA hazardous waste landfill.

Under civil and criminal penalties of law for the making or submission of false or fraudulant statements or representations (18 U.S.C. 1001 and 15 U.S.C. 2615), I certify that the information contained in or accompanying this document is true, accurate, and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy, I certify as the company official having supervisory responsibility for the person who, acting under my direct instructions, made the verification that this information is true, accurate, and complete.

Doug McLain

Doug McLain, Facility Manager

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039 Expires 9-30-99

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: OK0000963348
Manifest Document No.: BF010
2. Page 1 of 1
Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
WILLIAMS GAS PIPELINE ---BUFFALO, OK
13430 WEST 98TH ST BLDG 5, SHAWNEE MISSION, KS 66215
4. Generator's Phone (913) 310-7625

A. State Manifest Document Number
B. State Generator's ID

5. Transporter 1 Company Name: NP ENVIRONMENTAL
6. US EPA ID Number: CAT000624247
C. State Transporter's ID
D. Transporter's Phone: (888) 637-8009

7. Transporter 2 Company Name
8. US EPA ID Number
E. State Transporter's ID
F. Transporter's Phone

9. Designated Facility Name and Site Address
SAFETY-KLEEN(LONE MOUNTAIN)INC
5E & 1N OF JCT 412 & 281
WAYNOKA, OK 73860-9622
10. US EPA ID Number: OKD065438376
G. State Facility's ID
H. Facility's Phone: (580) 697-3500

	11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a.	HM RQ POLYCHLORINATED BIPHENYLS, 9, NA2315, III, RQ(PCB'S)	001	DT	EST 18000	K	NONE
b.						
c.						
d.						

J. Additional Descriptions for Materials Listed Above
Additional EPA Waste Codes a. b. c. d.

K. Handling Codes for Wastes Listed Above
a. H132 b. c. d.
SW 50420

15. Special Handling Instructions and Additional Information
Approval Numbers a. LM99-0131-06 b. c. d.
Emergency Contact: 913-310-7625
DATE OF REMOVAL FROM SERVICE 08/20/02
SUB# 56172 TRLR# 816

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.

If I am a 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 small quantity 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: Danny L Larkey
Signature: Danny L Larkey
Date: Month 08 Day 20 Year 02

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Jeffery L. Couch
Signature: [signature]
Date: Month 08 Day 20 Year 02

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name
Signature
Date: Month Day Year

19. Discrepancy Indication Space
Sec. 13 - per Mark Sullivan - Most weight is estimated.
Resolve to Lone Mountain Weight 22873 K. 8/21/02 VS
02-3867

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.
Printed/Typed Name: Wesley Hope
Signature: Wesley Hope
Month 08 Day 20 Year 02

GENERATOR / TRANSPORTER / FACILITY

EPA Form 8700-22 (Rev. 9-88) previous editions obsolete

SAFETY-KLEEN CORP

90290 (Rev 11/98) 6

ORIGINAL - RETURN TO GENERATOR

INSTRUCTIONS FOR COMPLETION OF THIS FORM, REFER CODE OF FEDERAL REGULATIONS 40 PART 262

223, U.S. Environmental Protection Agency, 401 M Street, SW, Washington, DC 20460; and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, DC 20503.

PCB WASTE - CERTIFICATE OF DISPOSAL

Safety-Kleen (Lone and Grassy Mountain), Inc.
Lone Mountain Facility
Route 2, Box 170
Waynoka, OK 73860
EPA ID # - OKD065438376

As required by 40 CFR 761.218, we are providing this Certificate of Disposal to WILLIAMS GAS PIPELINE -BUFFALO, EPA ID # OK0000963348 to confirm that

LINE	PROFILE No.	WASTE NAME	WEIGHT Kg	TYPE	CNTNRS	DISPOSED
1/A	LM99-0131-06	3006068 PCB SOIL & DEBRIS	22866.21	BULK	1	08/20/02

shipped on manifest number OK0000963348-BF010 was/were disposed in a RCRA hazardous waste landfill.

Under civil and criminal penalties of law for the making or submission of false or fraudulant statements or representations (18 U.S.C. 1001 and 15 U.S.C. 2615), I certify that the information contained in or accompanying this document is true, accurate, and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy, I certify as the company official having supervisory responsibility for the person who, acting under my direct instructions, made the verification that this information is true, accurate, and complete.

Doug McLain

Doug McLain, Facility Manager

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039 Expires 9-30-99

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. OK0000963348 | Manifest Document No. BF 011 | 2. Page 1 of 1 | Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
WILLIAMS GAS PIPELINE ---BUFFALO, OK
13430 WEST 98TH ST BLDG 5, SHAWNEE MISSION, KS 66215

4. Generator's Phone (913) 310-7625

A. State Manifest Document Number

B. State Generator's ID

5. Transporter 1 Company Name: RP ENVIRONMENTAL
6. US EPA ID Number: CAT000624247

C. State Transporter's ID
D. Transporter's Phone (888) 637-8009

7. Transporter 2 Company Name
8. US EPA ID Number

E. State Transporter's ID
F. Transporter's Phone

9. Designated Facility Name and Site Address
SAFETY-KLEEN(LONE MOUNTAIN)INC
5E & 1N OF JCT 412 & 281
WAYNOKA, OK 73860-9622

10. US EPA ID Number: OKD065438376

G. State Facility's ID

H. Facility's Phone (580) 697-3500

11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)	HM		12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a.	RQ	POLYCHLORINATED BIPHENYLS, 9, NA2315, III, RQ(PCB'S)	001	DT	EST 18000	K	NONE
b.							
c.							
d.							

J. Additional Descriptions for Materials Listed Above
Additional EPA Waste Codes a. b. c. d.

K. Handling Codes for Wastes Listed Above
a. H132
b.
c.
d.
SW 56420

15. Special Handling Instructions and Additional Information
Approval Numbers a. LM99-0131-06 b. c. d.
Emergency Contact: 913-310-7625

DATE OF REMOVAL FROM SERVICE 08/20/02

SWO# 49783

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.

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Printed/Typed Name: Danny L Larkey | Signature: Danny L Larkey | Date: Month 08 Day 20 Year 02

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Tim Collier | Signature: [signature] | Date: Month 08 Day 20 Year 02

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name | Signature | Date: Month Day Year

19. Discrepancy Indication Space
Sec. 13 - per Mark Sullivan - Most weight is estimated.
Resolve to Lone Mountain Weight 25595 K. 8/21/02 VS

02-3871

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.
Printed/Typed Name: BER DEANE PECK | Signature: Ber Deane Peck | Date: Month 08 Day 20 Year 02

GENERATOR / TRANSPORTER / FACILITY

EPA Form 8700-22 (Rev. 9-88) previous editions obsolete

SAFETY-KLEEN CORP.

90290 (Rev 11/98) 6

ORIGINAL - RETURN TO GENERATOR

INSTRUCTIONS FOR COMPLETION OF THIS FORM, REFER CODE OF FEDERAL REGULATIONS 40 PART 262

... Environmental Protection Agency, 401 M Street, SW, Washington, DC 20460; and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, DC 20503.

PCB WASTE - CERTIFICATE OF DISPOSAL

Safety-Kleen (Lone and Grassy Mountain), Inc.
Lone Mountain Facility
Route 2, Box 170
Waynoka, OK 73860
EPA ID # - OKD065438376

As required by 40 CFR 761.218, we are providing this Certificate of Disposal to WILLIAMS GAS PIPELINE -BUFFALO, EPA ID # OK0000963348 to confirm that

LINE	PROFILE No.	WASTE NAME	WEIGHT Kg	TYPE	CNTNRS	DISPOSED
1/A	LM99-0131-06	3006068 PCB SOIL & DEBRIS	25587.30	BULK	1	08/20/02

shipped on manifest number OK0000963348-BF011 was/were disposed in a RCRA hazardous waste landfill.

Under civil and criminal penalties of law for the making or submission of false or fraudulant statements or representations (18 U.S.C. 1001 and 15 U.S.C. 2615), I certify that the information contained in or accompanying this document is true, accurate, and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy, I certify as the company official having supervisory responsibility for the person who, acting under my direct instructions, made the verification that this information is true, accurate, and complete.

Doug McLain

Doug McLain, Facility Manager

Swo 50175 Trlr 920

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039 Expires 9-30-99

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: OK0000963348
Manifest Document No.: BF012
2. Page 1 of 1
Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
WILLIAMS GAS PIPELINE ---BUFFALO, OK
13430 WEST 98TH ST BLDG 5, SHAWNEE MISSION, KS 66215
4. Generator's Phone (913) 310-7625

A. State Manifest Document Number
B. State Generator's ID

5. Transporter 1 Company Name: NP ENVIRONMENTAL
6. US EPA ID Number: CAT000624247
C. State Transporter's ID
D. Transporter's Phone: (888) 637-8089

7. Transporter 2 Company Name
8. US EPA ID Number
E. State Transporter's ID
F. Transporter's Phone

9. Designated Facility Name and Site Address
SAFETY-KLEEN(LONE MOUNTAIN)INC
5E & 1N OF JCT 412 & 281
WAYNOKA, OK 73860-9622
10. US EPA ID Number: OKD065438376
G. State Facility's ID
H. Facility's Phone: (580) 697-3500

	11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a.	HM RQ POLYCHLORINATED BIPHENYLS, 9, NA2315, III, RQ(PCB'S)	001	DT	EST. 18,000	K	NONE
b.						
c.						
d.						

J. Additional Descriptions for Materials Listed Above
Additional EPA Waste Codes a. b. c. d.

K. Handling Codes for Wastes Listed Above
a. H132 SW
b.
c.
d. 52540

15. Special Handling Instructions and Additional Information
Approval Numbers a. LM99-0131-06 b. c. d.
Emergency Contact: 913-310-7625
DATE OF REMOVAL FROM SERVICE 8-20-02

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.

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Printed/Typed Name: Rusty Howard
Signature: Rusty Howard
Date: Month 8 Day 20 Year 02

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Kevin Pollock
Signature: Kevin Pollock
Date: Month 08 Day 20 Year 02

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name
Signature
Date: Month Day Year

19. Discrepancy Indication Space
Sec. 13 - per Mark Sullivan - Most weight is estimated.
Resolve to Lone Mountain Weight 23834 K. 8/21/02 VS 02-3872

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.
Printed/Typed Name: BERDEANE PECK
Signature: Ber Deane Peck
Month 08 Day 20 Year 02

GENERATOR / TRANSPORTER / FACILITY

EPA Form 8700-22 (Rev. 9-88) previous editions obsolete

SAFETY-KLEEN CORP.

90290 (Rev 11/98) 6

ORIGINAL - RETURN TO GENERATOR

INSTRUCTIONS FOR COMPLETION OF THIS FORM, REFER CODE OF FEDERAL REGULATIONS 40 PART 262.20

223, U.S. Environmental Protection Agency, 401 M Street, SW, Washington, DC 20460; and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, DC 20503.

PCB WASTE - CERTIFICATE OF DISPOSAL

Safety-Kleen (Lone and Grassy Mountain), Inc.
Lone Mountain Facility
Route 2, Box 170
Waynoka, OK 73860
EPA ID # - OKD065438376

As required by 40 CFR 761.218, we are providing this Certificate of Disposal to WILLIAMS GAS PIPELINE -BUFFALO, EPA ID # OK0000963348 to confirm that

LINE	PROFILE No.	WASTE NAME	WEIGHT Kg	TYPE	CNTNRS	DISPOSED
1/A	LM99-0131-06	3006068 PCB SOIL & DEBRIS	23827.66	BULK	1	08/20/02

shipped on manifest number OK0000963348-BF012 was/were disposed in a RCRA hazardous waste landfill.

Under civil and criminal penalties of law for the making or submission of false or fraudulant statements or representations (18 U.S.C. 1001 and 15 U.S.C. 2615), I certify that the information contained in or accompanying this document is true, accurate, and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy, I certify as the company official having supervisory responsibility for the person who, acting under my direct instructions, made the verification that this information is true, accurate, and complete.

Doug McLain

Doug McLain, Facility Manager

551-929 SWO-50185

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039 Expires 9-30-99

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: OK0000963348
Manifest Document No.: BF013
2. Page 1 of 1
Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
WILLIAMS GAS PIPELINE ---BUFFALO, OK
13430 WEST 98TH ST BLDG 5, SHAWNEE MISSION, KS 66215
4. Generator's Phone (913) 310-7625

A. State Manifest Document Number
B. State Generator's ID

5. Transporter 1 Company Name: NP ENVIRONMENTAL
6. US EPA ID Number: CAT000624247
C. State Transporter's ID
D. Transporter's Phone: (888) 637-8089

7. Transporter 2 Company Name
8. US EPA ID Number
E. State Transporter's ID
F. Transporter's Phone

9. Designated Facility Name and Site Address
SAFETY-KLEEN(LONE MOUNTAIN)INC
5E & 1N OF JCT 412 & 281
WAYNOKA, OK 73860-9622
10. US EPA ID Number: OKD065438376
G. State Facility's ID
H. Facility's Phone: (580) 697-3500

11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)	HM		12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a.	RQ	POLYCHLORINATED BIPHENYLS, 9, NA2315, III, RQ(PCB'S)	001	DT	EST. 18,000	K	NONE
b.							
c.							
d.							

J. Additional Descriptions for Materials Listed Above
Additional a.
RPA Waste b.
Codes c.
d.

K. Handling Codes for Wastes Listed Above
a. H132
b.
c.
d.
SW 42960

15. Special Handling Instructions and Additional Information
Approval Numbers a. LN99-0131-06 b. c. d.
Emergency Contact: 913-310-7625
DATE OF REMOVAL FROM SERVICE 8-20-02

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.

If I am a 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 small quantity 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: Rusty Howard
Signature: Rusty Howard
Date: Month 8 Day 20 Year 02

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Lenoy Zelenka
Signature: Lenoy Zelenka
Date: Month 8 Day 20 Year 02

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name
Signature
Date: Month Day Year

19. Discrepancy Indication Space
02-3876

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name: Wesley Hope
Signature: Wesley Hope
Month 08 Day 20 Year 02

GENERATOR / TRANSPORTER / FACILITY

EPA Form 8700-22 (Rev. 9-88) previous editions obsolete

SAFETY-KLEEN CORP.

90290 (Rev 11/98) 6

ORIGINAL - RETURN TO GENERATOR

INSTRUCTIONS FOR COMPLETION OF THIS FORM, REFER CODE OF FEDERAL REGULATIONS 40 PART 263

U.S. Environmental Protection Agency, 401 M Street, SW, Washington, DC 20460; and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, DC 20503.

PCB WASTE - CERTIFICATE OF DISPOSAL

Safety-Kleen (Lone and Grassy Mountain), Inc.
Lone Mountain Facility
Route 2, Box 170
Waynoka, OK 73860
EPA ID # - OKD065438376

As required by 40 CFR 761.218, we are providing this Certificate of Disposal to WILLIAMS GAS PIPELINE -BUFFALO, EPA ID # OK0000963348 to confirm that

LINE	PROFILE No.	WASTE NAME	WEIGHT Kg	TYPE	CNTNRS	DISPOSED
1/A	LM99-0131-06	3006068 PCB SOIL & DEBRIS	19482.99	BULK	1	08/20/02

shipped on manifest number OK0000963348-BF013 was/were disposed in a RCRA hazardous waste landfill.

Under civil and criminal penalties of law for the making or submission of false or fraudulant statements or representations (18 U.S.C. 1001 and 15 U.S.C. 2615), I certify that the information contained in or accompanying this document is true, accurate, and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy, I certify as the company official having supervisory responsibility for the person who, acting under my direct instructions, made the verification that this information is true, accurate, and complete.

Doug McLain

Doug McLain, Facility Manager

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039 Expires 9-30-99

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: OK0000963348
Manifest Document No.: BF014
2. Page 1 of 1
Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
WILLIAMS GAS PIPELINE ---BUFFALO, OK
13430 WEST 98TH ST BLDG 5, SHAWNEE MISSION, KS 66215

4. Generator's Phone (913) 310-7625

A. State Manifest Document Number
B. State Generator's ID

5. Transporter 1 Company Name: NP ENVIRONMENTAL
6. US EPA ID Number: CAT000624247
C. State Transporter's ID
D. Transporter's Phone: (888) 637-8009

7. Transporter 2 Company Name
8. US EPA ID Number
E. State Transporter's ID
F. Transporter's Phone

9. Designated Facility Name and Site Address
SAFETY-KLEEN(LONE MOUNTAIN)INC
5E & 1N OF JCT 412 & 281
WAYNOKA, OK 73860-9622
10. US EPA ID Number: OKD065438376
G. State Facility's ID
H. Facility's Phone: (580) 697-3500

	11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a.	HM RQ POLYCHLORINATED BIPHENYLS, 9, NA2315, III, RQ(PCB'S)	001	DT	EST. 18,000	K	NONE
b.						
c.						
d.						

J. Additional Descriptions for Materials Listed Above
Additional EPA Waste Codes a. b. c. d.

K. Handling Codes for Wastes Listed Above
a. H132 b. c. d.
SW 42420

15. Special Handling Instructions and Additional Information
Approval Numbers a. LM99-0131-06 b. c. d.
Emergency Contact: 913-310-7625
DATE OF REMOVAL FROM SERVICE 8-20-02

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.

If I am a 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 small quantity 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: Rusty Howard
Signature: Rusty Howard
Date: Month 8 Day 20 Year 02

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Eric M. Willson
Signature: Eric M. Willson
Date: Month 08 Day 20 Year 02

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name
Signature
Date: Month Day Year

19. Discrepancy Indication Space
02-3877

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.
Printed/Typed Name: Wesley Hope
Signature: Wesley Hope
Month 08 Day 20 Year 02

GENERATOR / TRANSPORTER / FACILITY

EPA Form 8700-22 (Rev. 9-88) previous editions obsolete

SAFETY-KLEEN CORP.

90290 (Rev 11/98) 6

ORIGINAL - RETURN TO GENERATOR

INSTRUCTIONS FOR COMPLETION OF THIS FORM. REFER CODE OF FEDERAL REGULATIONS 40 PART 262.20

223, U.S. Environmental Protection Agency, 401 M Street, SW, Washington, DC 20460; and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, DC 20503.

PCB WASTE - CERTIFICATE OF DISPOSAL

Safety-Kleen (Lone and Grassy Mountain), Inc.
Lone Mountain Facility
Route 2, Box 170
Waynoka, OK 73860
EPA ID # - OKD065438376

As required by 40 CFR 761.218, we are providing this Certificate of Disposal to WILLIAMS GAS PIPELINE -BUFFALO, EPA ID # OK0000963348 to confirm that

LINE	PROFILE No.	WASTE NAME	WEIGHT Kg	TYPE	CNTNRS	DISPOSED
1/A	LM99-0131-06	3006068 PCB SOIL & DEBRIS	19238.10	BULK	1	08/20/02

shipped on manifest number OK0000963348-BF014 was/were disposed in a RCRA hazardous waste landfill.

Under civil and criminal penalties of law for the making or submission of false or fraudulant statements or representations (18 U.S.C. 1001 and 15 U.S.C. 2615), I certify that the information contained in or accompanying this document is true, accurate, and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy, I certify as the company official having supervisory responsibility for the person who, acting under my direct instructions, made the verification that this information is true, accurate, and complete.

Doug McLain

Doug McLain, Facility Manager

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039 Expires 9-30-99

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: OK0000963348
Manifest Document No.: BF015

2. Page 1 of 1

Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
WILLIAMS GAS PIPELINE ---BUFFALO, OK
13430 WEST 98TH ST BLDG 5, SHAWNEE MISSION, KS 66215

4. Generator's Phone (913) 310-7625

5. Transporter 1 Company Name: NP ENVIRONMENTAL
6. US EPA ID Number: CAT000624247

7. Transporter 2 Company Name
8. US EPA ID Number

9. Designated Facility Name and Site Address
SAFETY-KLEEN(LONE MOUNTAIN)INC.
5E & 1N OF JCT 412 & 281
WATONKA, OK 73860-9622
10. US EPA ID Number: OKD065438376

A. State Manifest Document Number
B. State Generator's ID
C. State Transporter's ID
D. Transporter's Phone: (888) 637-8889
E. State Transporter's ID
F. Transporter's Phone
G. State Facility's ID
H. Facility's Phone: (580) 697-3500

GENERATOR

	11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)	HM	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a.	POLYCHLORINATED BIPHENYLS, 9, NA2315, III, RQ(PCB'S)	X	001	DT	EST 18,000	K	NONE
b.							
c.							
d.							

J. Additional Descriptions for Materials Listed Above
Additional RCRA Waste Codes a. b. c. d.

K. Handling Codes for Wastes Listed Above
a. H132 b. c. d. SW 48840

15. Special Handling Instructions and Additional Information
Approval Numbers a. LN99-0131-06 b. c. d.
Emergency Contact: 913-310-7625
DATE OF REMOVAL FROM SERVICE 8-20-02

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.

If I am a 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 small quantity 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: Rusty Howard
Signature: Rusty Howard
Date: Month 8 Day 20 Year 02

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Rinnie Stanley
Signature: Rinnie Stanley
Date: Month 8 Day 20 Year 02

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name
Signature
Date: Month Day Year

FACILITY

19. Discrepancy Indication Space
Sec. 13 - per Mark Sullivan - Most weight is estimated.
Resolve to Lone Mountain Weight 22150 K. 8/21/02 VS
02-3878

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.
Printed/Typed Name: Wesley Hope
Signature: Wesley Hope
Date: Month 08 Day 20 Year 02

EPA Form 8700-22 (Rev. 9-88) previous editions obsolete

SAFETY-KLEEN CORP.

90290 (Rev 11/98) 6

ORIGINAL - RETURN TO GENERATOR

INSTRUCTIONS FOR COMPLETION OF THIS FORM, REFER CODE OF FEDERAL REGULATIONS, 40 PART 262

U.S. Environmental Protection Agency, 401 M Street, SW, Washington, DC 20460; and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, DC 20503.

PCB WASTE - CERTIFICATE OF DISPOSAL

Safety-Kleen (Lone and Grassy Mountain), Inc.
Lone Mountain Facility
Route 2, Box 170
Waynoka, OK 73860
EPA ID # - OKD065438376

As required by 40 CFR 761.218, we are providing this Certificate of Disposal to WILLIAMS GAS PIPELINE -BUFFALO, EPA ID # OK0000963348 to confirm that

LINE	PROFILE No.	WASTE NAME	WEIGHT Kg	TYPE	CNTNRS	DISPOSED
1/A	LM99-0131-06	3006068 PCB SOIL & DEBRIS	22149.66	BULK	1	08/20/02

shipped on manifest number OK0000963348-BF015 was/were disposed in a RCRA hazardous waste landfill.

Under civil and criminal penalties of law for the making or submission of false or fraudulant statements or representations (18 U.S.C. 1001 and 15 U.S.C. 2615), I certify that the information contained in or accompanying this document is true, accurate, and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy, I certify as the company official having supervisory responsibility for the person who, acting under my direct instructions, made the verification that this information is true, accurate, and complete.

Doug McLain

Doug McLain, Facility Manager

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039 Expires 9-30-99

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: OK0000963348
Manifest Document No.: BF016
2. Page 1 of 1
Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
WILLIAMS GAS PIPELINE ---BUFFALO, OK
13430 WEST 98TH ST BLDG 5, SHAWNEE MISSION, KS 66215

4. Generator's Phone (913) 310-7625

A. State Manifest Document Number
B. State Generator's ID

5. Transporter 1 Company Name: MP ENVIRONMENTAL
6. US EPA ID Number: CAT000624247
C. State Transporter's ID
D. Transporter's Phone: (888) 637-8009

7. Transporter 2 Company Name
8. US EPA ID Number
E. State Transporter's ID
F. Transporter's Phone

9. Designated Facility Name and Site Address
SAFETY-KLEEN(LONE MOUNTAIN)INC
5E & 1N OF JCT 412 & 281
WAYNOKA, OK 73860-9622
10. US EPA ID Number: OKD065438376
G. State Facility's ID
H. Facility's Phone: (580) 697-3500

11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)	HM		12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a.	RQ	POLYCHLORINATED BIPHENYLS, 9, NA2315, III, RQ(PCB'S)	001	DT	EST. 18,000	K	NONE
b.							
c.							
d.							

J. Additional Descriptions for Materials Listed Above
Additional EPA Waste Codes a. b. c. d.

K. Handling Codes for Wastes Listed Above
a. H132 b. c. d. SW 50840

15. Special Handling Instructions and Additional Information
Approval Numbers a. LN99-0131-06 b. c. d.
Emergency Contact: 913-310-7625
DATE OF REMOVAL FROM SERVICE 8-20-02

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.

If I am a 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 small quantity 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: Rusty Howard
Signature: Rusty Howard
Date: Month 8 Day 20 Year 02

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Steve Etherton
Signature: [signature]
Date: Month 08 Day 20 Year 02

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name
Signature
Date: Month Day Year

19. Discrepancy Indication Space
Sec. 13 - per Mark Sullivan - Most weight is estimated.
Resolve to Lone Mountain Weight 23057 ~~X~~. 8/21/02 VS
02-3879

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.
Printed/Typed Name: Wesley Hope
Signature: Wesley Hope
Month 08 Day 20 Year 02

GENERATOR / TRANSPORTER / FACILITY

EPA Form 8700-22 (Rev. 9-88) previous editions obsolete

SAFETY-KLEEN CORP.

90290 (Rev 11/98) 6

ORIGINAL - RETURN TO GENERATOR

INSTRUCTIONS FOR COMPLETION OF THIS FORM. REFER CODE OF FEDERAL REGULATIONS 40 PART 262.20

223, U.S. Environmental Protection Agency, 401 M Street, SW, Washington, DC 20460; and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, DC 20503.

PCB WASTE - CERTIFICATE OF DISPOSAL

Safety-Kleen (Lone and Grassy Mountain), Inc.
Lone Mountain Facility
Route 2, Box 170
Waynoka, OK 73860
EPA ID # - OKD065438376

As required by 40 CFR 761.218, we are providing this Certificate of Disposal to WILLIAMS GAS PIPELINE -BUFFALO, EPA ID # OK0000963348 to confirm that

LINE	PROFILE No.	WASTE NAME	WEIGHT Kg	TYPE	CNTNRS	DISPOSED
1/A	LM99-0131-06	3006068 PCB SOIL & DEBRIS	23056.69	BULK	1	08/20/02

shipped on manifest number OK0000963348-BF016 was/were disposed in a RCRA hazardous waste landfill.

Under civil and criminal penalties of law for the making or submission of false or fraudulant statements or representations (18 U.S.C. 1001 and 15 U.S.C. 2615), I certify that the information contained in or accompanying this document is true, accurate, and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy, I certify as the company official having supervisory responsibility for the person who, acting under my direct instructions, made the verification that this information is true, accurate, and complete.

Doug McLain

Doug McLain, Facility Manager

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039 Expires 9-30-99

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: OK0000963348
Manifest Document No.: BF017
2. Page 1 of 1

Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
WILLIAMS GAS PIPELINE ---BUFFALO, OK
13430 WEST 98TH ST BLDG 5, SHAWNEE MISSION, KS 66215
4. Generator's Phone (913) 310-7625

A. State Manifest Document Number
B. State Generator's ID

5. Transporter 1 Company Name: MP ENVIRONMENTAL
6. US EPA ID Number: CAT000624247
C. State Transporter's ID
D. Transporter's Phone: (888) 637-8009

7. Transporter 2 Company Name
8. US EPA ID Number
E. State Transporter's ID
F. Transporter's Phone

9. Designated Facility Name and Site Address
SAFETY-KLEEN(LONE MOUNTAIN)INC
5E & 1N OF JCT 412 & 281
WAYNOKA, OK 73860-9622
10. US EPA ID Number: OKD065438376
G. State Facility's ID
H. Facility's Phone: (580) 697-3500

11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)	HM		12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a.	R Q	POLYCHLORINATED BIPHENYLS, 9, NA2315, III, RQ(PCB'S)	001	DT	EST. 18,000	K	NONE
b.							
c.							
d.							

J. Additional Descriptions for Materials Listed Above
Additional EPA Waste Codes a. b. c. d.
TN 919
SW 50192

K. Handling Codes for Wastes Listed Above
a. H132
b.
c.
d. SW 49400

15. Special Handling Instructions and Additional Information
Approval Numbers a. LM99-0131-06 b. c. d.
Emergency Contact: 913-310-7625
DATE OF REMOVAL FROM SERVICE 8-20-02

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.

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Printed/Typed Name: Rusty Howard
Signature: Rusty Howard
Date: Month 8 Day 20 Year 02

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Allen D Moulder
Signature: Allen D Moulder
Date: Month 8 Day 20 Year 02

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name
Signature
Date: Month Day Year

19. Discrepancy Indication Space
Sec. 13 - per Mark Sullivan - Most weight is estimated.
Resolve to Lone Mountain Weight 22403 K. 8/21/02 VS
02-3880

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.
Printed/Typed Name: Wesley Hope
Signature: Wesley Hope
Month 08 Day 20 Year 02

GENERATOR / TRANSPORTER / FACILITY

EPA Form 8700-22 (Rev. 9-88) previous editions obsolete

SAFETY-KLEEN CORP.

90290 (Rev 11/98) 6

ORIGINAL - RETURN TO GENERATOR

INSTRUCTIONS FOR COMPLETION OF THIS FORM, REFER CODE OF FEDERAL REGULATIONS 40 PART 262

223, U.S. Environmental Protection Agency, 401 M Street, SW, Washington, DC 20460; and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, DC 20503.

PCB WASTE - CERTIFICATE OF DISPOSAL

Safety-Kleen (Lone and Grassy Mountain), Inc.
Lone Mountain Facility
Route 2, Box 170
Waynoka, OK 73860
EPA ID # - OKD065438376

As required by 40 CFR 761.218, we are providing this Certificate of Disposal to WILLIAMS GAS PIPELINE -BUFFALO, EPA ID # OK0000963348 to confirm that

LINE	PROFILE No.	WASTE NAME	WEIGHT Kg	TYPE	CNTNRS	DISPOSED
1/A	LM99-0131-06	3006068 PCB SOIL & DEBRIS	22403.63	BULK	1	08/20/02

shipped on manifest number OK0000963348-BF017 was/were disposed in a RCRA hazardous waste landfill.

Under civil and criminal penalties of law for the making or submission of false or fraudulant statements or representations (18 U.S.C. 1001 and 15 U.S.C. 2615), I certify that the information contained in or accompanying this document is true, accurate, and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy, I certify as the company official having supervisory responsibility for the person who, acting under my direct instructions, made the verification that this information is true, accurate, and complete.

Doug McLain

Doug McLain, Facility Manager

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039 Expires 9-30-99

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: OK0000963348 Manifest Document No.: BF018

2. Page 1 of 1

Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
WILLIAMS GAS PIPELINE ---BUFFALO, OK
13430 WEST 98TH ST BLDG 5, SHAWNEE MISSION, KS 66215

4. Generator's Phone (913) 310-7625

5. Transporter 1 Company Name: NP ENVIRONMENTAL
6. US EPA ID Number: CAT000624247

7. Transporter 2 Company Name
8. US EPA ID Number

9. Designated Facility Name and Site Address
SAFETY-KLEEN(LONE MOUNTAIN)INC
5E & 1N OF JCT 412 & 281
WAYNOKA, OK 73860-9622
10. US EPA ID Number: OKD065438376

A. State Manifest Document Number
B. State Generator's ID
C. State Transporter's ID
D. Transporter's Phone: (888) 637-8889
E. State Transporter's ID
F. Transporter's Phone
G. State Facility's ID
H. Facility's Phone: (580) 697-3500

GENERATOR

11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)	HM	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. POLYCHLORINATED BIPHENYLS, 9, NA2315, III, RQ(PCB'S)	X	001	DT	EST. 18,000	K	NONE
b.						
c.						
d.						

J. Additional Descriptions for Materials Listed Above
Additional RCRA Waste Codes: a. b. c. d.

K. Handling Codes for Wastes Listed Above
a. H132 b. c. d. SW 410320

15. Special Handling Instructions and Additional Information
Approval Numbers: a. LN99-0131-06 b. c. d.
Emergency Contact: 913-310-7625
DATE OF REMOVAL FROM SERVICE 8-20-02

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.

If I am a 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 small quantity 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: Rusty Howard Signature: Rusty Howard Date: Month 8 Day 20 Year 02

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: STONY AVANTS Signature: Stony Avants Date: Month 8 Day 20 Year 02

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name: Signature: Date: Month Day Year

FACILITY

19. Discrepancy Indication Space
Sec. 13 - per Mark Sullivan - Most weight is estimated.
Resolve to Lone Mountain Weight 21006 K. 8/21/02 VB
02-3881

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.
Printed/Typed Name: Wesley Hope Signature: Wesley Hope Date: Month 08 Day 20 Year 02

EPA Form 8700-22 (Rev. 9-88) previous editions obsolete

SAFETY-KLEEN CORP.

90290 (Rev 11/98) 6

ORIGINAL - RETURN TO GENERATOR

Reviewing instructions, gathering data, and completing and reviewing the form. Send comments regarding the burden estimate, including suggestions for reducing this burden, to: Chief, Information Policy Branch, PM-223, U.S. Environmental Protection Agency, 401 M Street, SW, Washington, DC 20460; and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, DC 20503.

INSTRUCTIONS FOR COMPLETION OF THIS FORM, REFER CODE OF FEDERAL REGULATIONS, 40 PART 262.20

PCB WASTE - CERTIFICATE OF DISPOSAL

Safety-Kleen (Lone and Grassy Mountain), Inc.
Lone Mountain Facility
Route 2, Box 170
Waynoka, OK 73860
EPA ID # - OKD065438376

As required by 40 CFR 761.218, we are providing this Certificate of Disposal to WILLIAMS GAS PIPELINE -BUFFALO, EPA ID # OK0000963348 to confirm that

LINE	PROFILE No.	WASTE NAME	WEIGHT Kg	TYPE	CNTNRS	DISPOSED
1/A	LM99-0131-06	3006068 PCB SOIL & DEBRIS	21006.80	BULK	1	08/20/02

shipped on manifest number OK0000963348-BF018 was/were disposed in a RCRA hazardous waste landfill.

Under civil and criminal penalties of law for the making or submission of false or fraudulant statements or representations (18 U.S.C. 1001 and 15 U.S.C. 2615), I certify that the information contained in or accompanying this document is true, accurate, and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy, I certify as the company official having supervisory responsibility for the person who, acting under my direct instructions, made the verification that this information is true, accurate, and complete.

Doug McLain

Doug McLain, Facility Manager

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039 Expires 9-30-99

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: OK0000963348
Manifest Document No.: BF019
2. Page 1 of 1
Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
WILLIAMS GAS PIPELINE ---BUFFALO, OK
13430 WEST 98TH ST BLDG 5, SHAWNEE MISSION, KS 66215

4. Generator's Phone (913) 310-7625

A. State Manifest Document Number
B. State Generator's ID

5. Transporter 1 Company Name: MP ENVIRONMENTAL
6. US EPA ID Number: CAT000624247
C. State Transporter's ID
D. Transporter's Phone: (888) 637-8009

7. Transporter 2 Company Name
8. US EPA ID Number
E. State Transporter's ID
F. Transporter's Phone

9. Designated Facility Name and Site Address
SAFETY-KLEEN(LONE MOUNTAIN)INC
5E & 1N OF JCT 412 & 281
WAYNOKA, OK 73860-9622
10. US EPA ID Number: OKD065438376
G. State Facility's ID
H. Facility's Phone: (580) 697-3500

GENERATOR

11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)	HM		12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a.	RQ	POLYCHLORINATED BIPHENYLS, 9, NA2315, III, RQ(PCB'S)	001	DT	EST. 18,000	K	NONE
b.							
c.							
d.							

J. Additional Descriptions for Materials Listed Above
Additional EPA Waste Codes a. b. c. d.

K. Handling Codes for Wastes Listed Above
a. H132 b. c. d.
SW 45800

15. Special Handling Instructions and Additional Information
Approval Numbers a. LM99-0131-06 b. c. d.
Emergency Contact: 913-310-7625
DATE OF REMOVAL FROM SERVICE 8-20-02
SWO# 50193

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.

If I am a 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 small quantity 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: Rusty Howard
Signature: Rusty Howard
Date: Month 8 Day 20 Year 02

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Lonnie Blair
Signature: Lonnie Blair
Date: Month 08 Day 20 Year 02

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name
Signature
Date: Month Day Year

FACILITY

19. Discrepancy Indication Space
02-3882

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.
Printed/Typed Name: Wesley Hope
Signature: Wesley Hope
Month 08 Day 20 Year 02

EPA Form 8700-22 (Rev. 9-88) previous editions obsolete

SAFETY-KLEEN CORP.

90290 (Rev 11/98) 6

ORIGINAL - RETURN TO GENERATOR

Public reporting burden for this collection of information is estimated to average: 37 minutes for generators, 15 minutes for transporters, and 10 minutes for treatment, storage and disposal facilities. This includes time for reviewing instructions, gathering data, and completing and reviewing the form. Send comments regarding the burden estimate, including suggestions for reducing this burden, to: Chief, Information Policy Branch, PM-223, U.S. Environmental Protection Agency, 401 M Street, SW, Washington, DC 20460; and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, DC 20503.

PCB WASTE - CERTIFICATE OF DISPOSAL

Safety-Kleen (Lone and Grassy Mountain), Inc.
Lone Mountain Facility
Route 2, Box 170
Waynoka, OK 73860
EPA ID # - OKD065438376

As required by 40 CFR 761.218, we are providing this Certificate of Disposal to WILLIAMS GAS PIPELINE -BUFFALO, EPA ID # OK0000963348 to confirm that

LINE	PROFILE No.	WASTE NAME	WEIGHT Kg	TYPE	CNTNRS	DISPOSED
1/A	LM99-0131-06	3006068 PCB SOIL & DEBRIS	20770.98	BULK	1	08/20/02

shipped on manifest number OK0000963348-BF019 was/were disposed in a RCRA hazardous waste landfill.

Under civil and criminal penalties of law for the making or submission of false or fraudulant statements or representations (18 U.S.C. 1001 and 15 U.S.C. 2615), I certify that the information contained in or accompanying this document is true, accurate, and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy, I certify as the company official having supervisory responsibility for the person who, acting under my direct instructions, made the verification that this information is true, accurate, and complete.

Doug McLain

Doug McLain, Facility Manager

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039 Expires 9-30-99

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. OK0000963348 Manifest Document No. BF020

2. Page 1 of 1

Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
WILLIAMS GAS PIPELINE ---BUFFALO, OK
13430 WEST 98TH ST BLDG 5, SHAWNEE MISSION, KS 66215

4. Generator's Phone (913) 310-7625

A. State Manifest Document Number

B. State Generator's ID

5. Transporter 1 Company Name: NP ENVIRONMENTAL

6. US EPA ID Number: CAT000624247

C. State Transporter's ID

D. Transporter's Phone (888) 637-8889

7. Transporter 2 Company Name

8. US EPA ID Number

E. State Transporter's ID

F. Transporter's Phone

9. Designated Facility Name and Site Address
SAFETY-KLEEN(LONE MOUNTAIN)INC
5E & 1N OF JCT 412 & 281
WAYNOKA, OK 73860-9622

10. US EPA ID Number: OKD065438376

G. State Facility's ID

H. Facility's Phone (580) 697-3500

	11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)	HM	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a.	POLYCHLORINATED BIPHENYLS, 9, NA2315, III, RQ(PCB'S)	RQ	001	DT	EST. 18,000	K	NONE
b.							
c.							
d.							

J. Additional Descriptions for Materials Listed Above
Additional EPA Waste Codes: a. b. c. d.

K. Handling Codes for Wastes Listed Above
a. H132 b. c. d. SW 40100

15. Special Handling Instructions and Additional Information
Approval Numbers a. LN99-0131-06 b. c. d.
Emergency Contact: 913-310-7625
DATE OF REMOVAL FROM SERVICE 8-20-02
SWD #50184 TRLR#916

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.

If I am a 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 small quantity 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: Rusty Howard — Signature: Rusty Howard — Date: Month 8 Day 20 Year 02

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials — Printed/Typed Name: Jeffery L. Cook — Signature — Date: Month 08 Day 20 Year 02

18. Transporter 2 Acknowledgement of Receipt of Materials — Printed/Typed Name — Signature — Date: Month Day Year

FACILITY

19. Discrepancy Indication Space
02-3883

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name: Wesley Hope — Signature: Wesley Hope — Date: Month 08 Day 20 Year 02

EPA Form 8700-22 (Rev. 9-88) previous editions obsolete

SAFETY-KLEEN CORP.

90290 (Rev 11/98) 6

ORIGINAL - RETURN TO GENERATOR

reviewing instructions, gathering data, and completing and reviewing the form. Send comments regarding the burden estimate, including suggestions for reducing this burden, to: Chief, Information Policy Branch, PM-223, U.S. Environmental Protection Agency, 401 M Street, SW, Washington, DC 20460; and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, DC 20503.

PCB WASTE - CERTIFICATE OF DISPOSAL

Safety-Kleen (Lone and Grassy Mountain), Inc.
Lone Mountain Facility
Route 2, Box 170
Waynoka, OK 73860
EPA ID # - OKD065438376

As required by 40 CFR 761.218, we are providing this Certificate of Disposal to WILLIAMS GAS PIPELINE -BUFFALO, EPA ID # OK0000963348 to confirm that

LINE	PROFILE No.	WASTE NAME	WEIGHT Kg	TYPE	CNTNRS	DISPOSED
1/A	LM99-0131-06	3006068 PCB SOIL & DEBRIS	18185.94	BULK	1	08/20/02

shipped on manifest number OK0000963348-BF020 was/were disposed in a RCRA hazardous waste landfill.

Under civil and criminal penalties of law for the making or submission of false or fraudulant statements or representations (18 U.S.C. 1001 and 15 U.S.C. 2615), I certify that the information contained in or accompanying this document is true, accurate, and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy, I certify as the company official having supervisory responsibility for the person who, acting under my direct instructions, made the verification that this information is true, accurate, and complete.

Doug McLain

Doug McLain, Facility Manager

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039 Expires 9-30-99

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. OK0000963348 Manifest Document No. BF021

2. Page 1 of

Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
WILLIAMS GAS PIPELINE ---BUFFALO, OK
13430 WEST 98TH ST BLDG 5, SHAWNEE MISSION, KS 66215

4. Generator's Phone (913) 310-7625

A. State Manifest Document Number

B. State Generator's ID

5. Transporter 1 Company Name: NF ENVIRONMENTAL

6. US EPA ID Number: CAT000624247

C. State Transporter's ID

D. Transporter's Phone: (888) 637-8889

7. Transporter 2 Company Name

8. US EPA ID Number

E. State Transporter's ID

F. Transporter's Phone

9. Designated Facility Name and Site Address
SAFETY-KLEEN(LONE MOUNTAIN)INC
5E & 1N OF JCT 412 & 281
WAYNOKA, OK 73860-9622

10. US EPA ID Number: OKD065438376

G. State Facility's ID

H. Facility's Phone: (580) 697-3500

	11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)	HM	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a.	POLYCHLORINATED BIPHENYLS, 9, NA2315, III, RQ(PCB'S)	X	001	DT	EST. 18,000	K	NONE
b.							
c.							
d.							

J. Additional Descriptions for Materials Listed Above
Additional EPA Waste Codes a. b. c. d.

K. Handling Codes for Wastes Listed Above
a. H132 b. c. d. SW 45880

15. Special Handling Instructions and Additional Information
Approval Numbers a. LN99-0131-06 b. c. d.
Emergency Contact: 913-310-7625
DATE OF REMOVAL FROM SERVICE 8-20-02

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.

If I am a 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 small quantity 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: Rusty Howard Signature: Rusty Howard Date: Month 8 Day 20 Year 02

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Tom LEMKE Signature: Tom Lemke Date: Month 08 Day 20 Year 02

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name Signature Date: Month Day Year

19. Discrepancy Indication Space
Sec. 13 - per Mark Sullivan - Most weight is estimated.
Resolve to Lone Mountain Weight 20807 K. 8/21/02 (VS) D2-3884

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.
Printed/Typed Name: Wesley Hope Signature: Wesley Hope Date: Month 08 Day 20 Year 02

GENERATOR / TRANSPORTER / FACILITY

EPA Form 8700-22 (Rev. 9-88) previous editions obsolete

SAFETY-KLEEN CORP.

90290 (Rev 11/98) 6

ORIGINAL - RETURN TO GENERATOR

reviewing instructions, gathering data, and completing and reviewing the form. Send comments regarding the burden estimate, including suggestions for reducing this burden, to: Chief, Information Policy Branch, PM-223, U.S. Environmental Protection Agency, 401 M Street, SW, Washington, DC 20460; and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, DC 20503.

INSTRUCTIONS FOR COMPLETING THIS FORM

PCB WASTE - CERTIFICATE OF DISPOSAL

Safety-Kleen (Lone and Grassy Mountain), Inc.
Lone Mountain Facility
Route 2, Box 170
Waynoka, OK 73860
EPA ID # - OKD065438376

As required by 40 CFR 761.218, we are providing this Certificate of Disposal to WILLIAMS GAS PIPELINE -BUFFALO, EPA ID # OK0000963348 to confirm that

LINE	PROFILE No.	WASTE NAME	WEIGHT Kg	TYPE	CNTNRS	DISPOSED
1/A	LM99-0131-06	3006068 PCB SOIL & DEBRIS	20807.26	BULK	1	08/20/02

shipped on manifest number OK0000963348-BF021 was/were disposed in a RCRA hazardous waste landfill.

Under civil and criminal penalties of law for the making or submission of false or fraudulant statements or representations (18 U.S.C. 1001 and 15 U.S.C. 2615), I certify that the information contained in or accompanying this document is true, accurate, and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy, I certify as the company official having supervisory responsibility for the person who, acting under my direct instructions, made the verification that this information is true, accurate, and complete.

Doug McLain

Doug McLain, Facility Manager

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039 Expires 9-30-99

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. OK0000963348 Manifest Document No. #022

2. Page 1 of 1

Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
WILLIAMS GAS PIPELINE ---BUFFALO, OK
13430 WEST 98TH ST BLDG 5, SHAWNEE MISSION, KS 66215

4. Generator's Phone (913) 310-7625

A. State Manifest Document Number

B. State Generator's ID

5. Transporter 1 Company Name: NP ENVIRONMENTAL

6. US EPA ID Number: CAT000624247

C. State Transporter's ID

D. Transporter's Phone (888) 631-8889

7. Transporter 2 Company Name

8. US EPA ID Number

E. State Transporter's ID

F. Transporter's Phone

9. Designated Facility Name and Site Address
SAFETY-KLEEN(LONE MOUNTAIN)INC
5E & 1N OF JCT 412 & 281
WATONGA, OK 73860-9622

10. US EPA ID Number: OKD065438376

G. State Facility's ID

H. Facility's Phone (580) 697-3500

	11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)	HM	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a.	POLYCHLORINATED BIPHENYLS, 9, NA2315, III, RQ(PCB'S)	X	001	DT	EST. 18,000	K	NONE
b.							
c.							
d.							

J. Additional Descriptions for Materials Listed Above
Additional RCRA Waste Codes a. b. c. d.

K. Handling Codes for Wastes Listed Above
a. H132 b. c. d. SW 48780

15. Special Handling Instructions and Additional Information
Approval Numbers a.LN99-0131-06 b. c. d.
Emergency Contact: 913-310-7625
DATE OF REMOVAL FROM SERVICE 8-20-02

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.

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GENERATOR — Printed/Typed Name: Rusty Howard — Signature: Rusty Howard — Date (Month Day Year): 8 20 02

TRANSPORTER — 17. Transporter 1 Acknowledgement of Receipt of Materials — Printed/Typed Name: Leon McDaniels — Signature: Leon McDaniel — Date (Month Day Year): 08 20 02

18. Transporter 2 Acknowledgement of Receipt of Materials — Printed/Typed Name: — Signature: — Date (Month Day Year):

FACILITY — 19. Discrepancy Indication Space
Sec. 13 - per Mark Sullivan - Most weight is estimated.
Resolve to Lone Mountain Weight 22122 K. 8/21/02 WS
02-3885

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.
Printed/Typed Name: Wesley Hope — Signature: Wesley Hope — Date (Month Day Year): 08 20 02

EPA Form 8700-22 (Rev. 9-88) previous editions obsolete

SAFETY-KLEEN CORP.

90290 (Rev 11/98) 6

ORIGINAL - RETURN TO GENERATOR

INSTRUCTIONS FOR COMPLETION OF THIS FORM, REFER CODE OF FEDERAL REGULATIONS 40 PART 262.20

223, U.S. Environmental Protection Agency, 401 M Street, SW, Washington, DC 20460; and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, DC 20503.

PCB WASTE - CERTIFICATE OF DISPOSAL

Safety-Kleen (Lone and Grassy Mountain), Inc.
Lone Mountain Facility
Route 2, Box 170
Waynoka, OK 73860
EPA ID # - OKD065438376

As required by 40 CFR 761.218, we are providing this Certificate of Disposal to WILLIAMS GAS PIPELINE -BUFFALO, EPA ID # OK0000963348 to confirm that

LINE	PROFILE No.	WASTE NAME	WEIGHT Kg	TYPE	CNTNRS	DISPOSED
1/A	LM99-0131-06	3006068 PCB SOIL & DEBRIS	22122.45	BULK	1	08/20/02

shipped on manifest number OK0000963348-BF022 was/were disposed in a RCRA hazardous waste landfill.

Under civil and criminal penalties of law for the making or submission of false or fraudulant statements or representations (18 U.S.C. 1001 and 15 U.S.C. 2615), I certify that the information contained in or accompanying this document is true, accurate, and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy, I certify as the company official having supervisory responsibility for the person who, acting under my direct instructions, made the verification that this information is true, accurate, and complete.

Doug McLain

Doug McLain, Facility Manager

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039 Expires 9-30-99

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. OK0000963348 Manifest Document No. BF023

2. Page 1 of 1

Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
WILLIAMS GAS PIPELINE ---BUFFALO, OK
13430 WEST 98TH ST BLDG 5, SHAWNEE MISSION, KS 66215

4. Generator's Phone (913) 310-7625

A. State Manifest Document Number

B. State Generator's ID

5. Transporter 1 Company Name
HF ENVIRONMENTAL

6. US EPA ID Number
CAT000624247

C. State Transporter's ID

D. Transporter's Phone (888) 637-8889

7. Transporter 2 Company Name

8. US EPA ID Number

E. State Transporter's ID

F. Transporter's Phone

9. Designated Facility Name and Site Address
SAFETY-KLEEN(LONE MOUNTAIN)INC
5M & 1M OF JCT 412 & 281
WAYNOKA, OK 73860-9622

10. US EPA ID Number
OKD065438376

G. State Facility's ID

H. Facility's Phone (580) 697-3500

	11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)	HM	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a.	POLYCHLORINATED BIPHENYLS, 9, NA2315, III, RQ(PCB'S)	X	001	DT	EST. 18,000	K	NONE
b.							
c.							
d.							

J. Additional Descriptions for Materials Listed Above
Additional RCRA Waste Codes a. b. c. d.

K. Handling Codes for Wastes Listed Above
a. H132 b. c. d. SW 48000

15. Special Handling Instructions and Additional Information
Approval Numbers a.LK99-0131-06 b. c. d.
Emergency Contact: 913-310-7625
DATE OF REMOVAL FROM SERVICE 8-20-02
SWO# 50182

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.

If I am a 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 small quantity 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: Rusty Howard Signature: Rusty Howard Date: Month 8 Day 20 Year 02

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Tim Allen Signature: Tim Allen Date: Month 08 Day 20 Year 02

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name: Signature: Date: Month Day Year

19. Discrepancy Indication Space
Sec. 13 - per Mark Sullivan - Most weight is estimated.
Resolve to Lone Mountain Weight 21768 K. 8/21/02 VS
02-3886

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.
Printed/Typed Name: Wesley Hope Signature: Wesley Hope Date: Month 08 Day 20 Year 02

GENERATOR

TRANSPORTER

FACILITY

EPA Form 8700-22 (Rev. 9-88) previous editions obsolete

SAFETY-KLEEN CORP.

90290 (Rev 11/98) 6

ORIGINAL - RETURN TO GENERATOR

INSTRUCTIONS FOR COMPLETION OF THIS FORM, REFER CODE OF FEDERAL REGULATIONS 40 PART 262.20

223, U.S. Environmental Protection Agency, 401 M Street, SW, Washington, DC 20460; and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, DC 20503.

PCB WASTE - CERTIFICATE OF DISPOSAL

Safety-Kleen (Lone and Grassy Mountain), Inc.
Lone Mountain Facility
Route 2, Box 170
Waynoka, OK 73860
EPA ID # - OKD065438376

As required by 40 CFR 761.218, we are providing this Certificate of Disposal to WILLIAMS GAS PIPELINE -BUFFALO, EPA ID # OK0000963348 to confirm that

LINE	PROFILE No.	WASTE NAME	WEIGHT Kg	TYPE	CNTNRS	DISPOSED
1/A	LM99-0131-06	3006068 PCB SOIL & DEBRIS	21768.71	BULK	1	08/20/02

shipped on manifest number OK0000963348-BF023 was/were disposed in a RCRA hazardous waste landfill.

Under civil and criminal penalties of law for the making or submission of false or fraudulant statements or representations (18 U.S.C. 1001 and 15 U.S.C. 2615), I certify that the information contained in or accompanying this document is true, accurate, and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy, I certify as the company official having supervisory responsibility for the person who, acting under my direct instructions, made the verification that this information is true, accurate, and complete.

Doug McLain

Doug McLain, Facility Manager

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039 Expires 9-30-99

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. OK0000963348 | Manifest Document No. BF024 | 2. Page 1 of

Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
WILLIAMS GAS PIPELINE ---BUFFALO, OK
13430 WEST 98TH ST BLDG 5, SHAWNEE MISSION, KS 66215

4. Generator's Phone (913) 310-7625

A. State Manifest Document Number

B. State Generator's ID

5. Transporter 1 Company Name: NF ENVIRONMENTAL | 6. US EPA ID Number: CAT000624247

C. State Transporter's ID | D. Transporter's Phone: (888) 637-8883

7. Transporter 2 Company Name | 8. US EPA ID Number

E. State Transporter's ID | F. Transporter's Phone

9. Designated Facility Name and Site Address
SAFETY-KLEEN(LONE MOUNTAIN)INC
5E & 1N OF JCT 412 & 281
WATONGA, OK 73860-9622

10. US EPA ID Number: OKD065438376

G. State Facility's ID | H. Facility's Phone: (580) 697-3500

	11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)	HM	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a.	POLYCHLORINATED BIPHENYLS, 9, NA2315, III, RQ(PCB's)	X	001	DT	EST. 18,000	K	NONE
b.							
c.							
d.							

J. Additional Descriptions for Materials Listed Above
Additional RCRA Waste Codes a. b. c. d.

K. Handling Codes for Wastes Listed Above
a. H132 b. c. d. SW51980

15. Special Handling Instructions and Additional Information
Approval Numbers a.LN99-0131-06 b. c. d.
Emergency Contact: 913-310-7625

DATE OF REMOVAL FROM SERVICE 8-20-02

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.

If I am a 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 small quantity 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: Rusty Howard | Signature: Rusty Howard | Date: Month 8 Day 20 Year 02

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Kevin Pollock | Signature: Kevin Pollock | Date: Month 08 Day 20 Year 02

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name | Signature | Date: Month Day Year

19. Discrepancy Indication Space
Sec. 13 - per Mark Sullivan - Most weight is estimated.
Resolve to Lone Mountain Weight 23574 K. 8/21/02 VS

02-3887

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.
Printed/Typed Name: Wesley Hope | Signature: Wesley Hope | Date: Month 08 Day 20 Year 02

EPA Form 8700-22 (Rev. 9/88) previous editions obsolete

SAFETY-KLEEN CORP.

90290 (Rev 11/98) 6

ORIGINAL - RETURN TO GENERATOR

GENERATOR | TRANSPORTER | FACILITY

INSTRUCTIONS FOR COMPLETION OF THIS FORM, REFER CODE OF FEDERAL REGULATIONS, 40 PART 262-20

223, U.S. Environmental Protection Agency, 401 M Street, SW, Washington, DC 20460; and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, DC 20503.

PCB WASTE - CERTIFICATE OF DISPOSAL

Safety-Kleen (Lone and Grassy Mountain), Inc.
Lone Mountain Facility
Route 2, Box 170
Waynoka, OK 73860
EPA ID # - OKD065438376

As required by 40 CFR 761.218, we are providing this Certificate of Disposal to WILLIAMS GAS PIPELINE -BUFFALO, EPA ID # OK0000963348 to confirm that

LINE	PROFILE No.	WASTE NAME	WEIGHT Kg	TYPE	CNTNRS	DISPOSED
1/A	LM99-0131-06	3006068 PCB SOIL & DEBRIS	23573.70	BULK	1	08/20/02

shipped on manifest number OK0000963348-BF024 was/were disposed in a RCRA hazardous waste landfill.

Under civil and criminal penalties of law for the making or submission of false or fraudulant statements or representations (18 U.S.C. 1001 and 15 U.S.C. 2615), I certify that the information contained in or accompanying this document is true, accurate, and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy, I certify as the company official having supervisory responsibility for the person who, acting under my direct instructions, made the verification that this information is true, accurate, and complete.

Doug McLain

Doug McLain, Facility Manager

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039 Expires 9-30-99

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. OK0000963348 | Manifest Document No. BF 025 | 2. Page 1 of 1 | Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
WILLIAMS GAS PIPELINE ---BUFFALO, OK
13430 WEST 98TH ST BLDG 5, SHAWNEE MISSION, KS 66215
4. Generator's Phone (913) 310-7625

A. State Manifest Document Number
B. State Generator's ID

5. Transporter 1 Company Name: NF ENVIRONMENTAL
6. US EPA ID Number: CAT000624247

C. State Transporter's ID
D. Transporter's Phone: (888) 637-8889

7. Transporter 2 Company Name
8. US EPA ID Number

E. State Transporter's ID
F. Transporter's Phone

9. Designated Facility Name and Site Address
SAFETY-KLEEN(LONE MOUNTAIN)INC
5E & 1N OF JCT 412 & 281
WATONGA, OK 73860-9622
10. US EPA ID Number: OKD065438376

G. State Facility's ID
H. Facility's Phone: (580) 697-3500

11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)

	HM	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a.	RQ POLYCHLORINATED BIPHENYLS, 9, NA2315, III, RQ(PCB'S)	001	DT	EST. 18 000	K	NONE
b.						
c.						
d.						

J. Additional Descriptions for Materials Listed Above
Additional EPA Waste Codes a. b. c. d.

K. Handling Codes for Wastes Listed Above
a. H132 b. c. d. SW 21180

15. Special Handling Instructions and Additional Information
Approval Numbers a. LN99-0131-06 b. c. d.
Emergency Contact: 913-310-7625
DATE OF REMOVAL FROM SERVICE 8/21/02
SWOH 50198 TRLR#316

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.

If I am a 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 small quantity 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: Danny L Larkey | Signature: Danny L Larkey | Date: Month 08 Day 21 Year 02

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Jeffery L. Couch | Signature: Jeffery L Couch | Date: Month 08 Day 21 Year 02

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name | Signature | Date: Month Day Year

FACILITY

19. Discrepancy Indication Space
Sec. 13 - per Mark Sullivan - Most weight is estimated.
Resolve to Lone Mountain Weight 9605. 8/21/02 NS
02-3892

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.
Printed/Typed Name: BERDEANE PECK | Signature: Ber Deane Peck | Date: Month 08 Day 21 Year 02

EPA Form 8700-22 (Rev. 9-88) previous editions obsolete

SAFETY-KLEEN CORP.

90290 (Rev 11/98) 6

ORIGINAL - RETURN TO GENERATOR

INSTRUCTIONS FOR COMPLETION OF THIS FORM, REFER CODE OF FEDERAL REGULATIONS, 40 PART 262.20

223, U.S. Environmental Protection Agency, 401 M Street, SW, Washington, DC 20460; and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, DC 20503.

PCB WASTE - CERTIFICATE OF DISPOSAL

Safety-Kleen (Lone and Grassy Mountain), Inc.
Lone Mountain Facility
Route 2, Box 170
Waynoka, OK 73860
EPA ID # - OKD065438376

As required by 40 CFR 761.218, we are providing this Certificate of Disposal to WILLIAMS GAS PIPELINE -BUFFALO, EPA ID # OK0000963348 to confirm that

LINE	PROFILE No.	WASTE NAME	WEIGHT Kg	TYPE	CNTNRS	DISPOSED
1/A	LM99-0131-06	3006068 PCB SOIL & DEBRIS	9605.44	BULK	1	08/21/02

shipped on manifest number OK0000963348-BF025 was/were disposed in a RCRA hazardous waste landfill.

Under civil and criminal penalties of law for the making or submission of false or fraudulant statements or representations (18 U.S.C. 1001 and 15 U.S.C. 2615), I certify that the information contained in or accompanying this document is true, accurate, and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy, I certify as the company official having supervisory responsibility for the person who, acting under my direct instructions, made the verification that this information is true, accurate, and complete.

Doug McLain

Doug McLain, Facility Manager

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039 Expires 9-30-99

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: OK0000963348
Manifest Document No.: BF 026

2. Page 1 of 1

Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
WILLIAMS GAS PIPELINE ---BUFFALO, OK
13430 WEST 98TH ST BLDG 5, SHAWNEE MISSION, KS 66215

4. Generator's Phone (913) 310-7625

A. State Manifest Document Number

B. State Generator's ID

5. Transporter 1 Company Name: MP ENVIRONMENTAL

6. US EPA ID Number: CAT000624247

C. State Transporter's ID

D. Transporter's Phone: (888) 637-8009

7. Transporter 2 Company Name

8. US EPA ID Number

E. State Transporter's ID

F. Transporter's Phone

9. Designated Facility Name and Site Address
SAFETY-KLEEN(LONE MOUNTAIN)INC
5E & 1N OF JCT 412 & 281
WAYNOKA, OK 73860-9622

10. US EPA ID Number: OKD065438376

G. State Facility's ID

H. Facility's Phone: (580) 697-3500

	11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a.	HM RQ POLYCHLORINATED BIPHENYLS, 9, NA2315, III, RQ(PCB'S)	001	DT	EST. 18000	K	NONE
b.						
c.						
d.						

J. Additional Descriptions for Materials Listed Above
Additional EPA Waste Codes a. b. c. d.

K. Handling Codes for Wastes Listed Above
a. H132 b. c. d.
SW 44020

15. Special Handling Instructions and Additional Information
Approval Numbers a. LM99-0131-06 b. c. d.
Emergency Contact: 913-310-7625

DATE OF REMOVAL FROM SERVICE 08/21/02

SWD 50195

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.

If I am a 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 small quantity 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: Danny L Larkey
Signature: Danny L Larkey
Date: Month 08 Day 21 Year 02

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Tim Collier
Signature: [signature]
Date: Month 08 Day 21 Year 02

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name
Signature
Date: Month Day Year

19. Discrepancy Indication Space
02-3893

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.
Printed/Typed Name: BERDEANE PECK
Signature: Ber Deane Peck
Month 08 Day 21 Year 02

GENERATOR / TRANSPORTER / FACILITY

EPA Form 8700-22 (Rev. 9-88) previous editions obsolete

SAFETY-KLEEN CORP.

90290 (Rev 11/98) 6

ORIGINAL - RETURN TO GENERATOR

223, U.S. Environmental Protection Agency, 401 M Street, SW, Washington, DC 20460; and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, DC 20503.

INSTRUCTIONS FOR COMPLETION OF THIS FORM, REFER CODE OF FEDERAL REGULATIONS, 40, PART 262.20.

PCB WASTE - CERTIFICATE OF DISPOSAL

Safety-Kleen (Lone and Grassy Mountain), Inc.
Lone Mountain Facility
Route 2, Box 170
Waynoka, OK 73860
EPA ID # - OKD065438376

As required by 40 CFR 761.218, we are providing this Certificate of Disposal to WILLIAMS GAS PIPELINE -BUFFALO, EPA ID # OK0000963348 to confirm that

LINE	PROFILE No.	WASTE NAME	WEIGHT Kg	TYPE	CNTNRS	DISPOSED
1/A	LM99-0131-06	3006068 PCB SOIL & DEBRIS	19963.72	BULK	1	08/21/02

shipped on manifest number OK0000963348-BF026 was/were disposed in a RCRA hazardous waste landfill.

Under civil and criminal penalties of law for the making or submission of false or fraudulant statements or representations (18 U.S.C. 1001 and 15 U.S.C. 2615), I certify that the information contained in or accompanying this document is true, accurate, and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy, I certify as the company official having supervisory responsibility for the person who, acting under my direct instructions, made the verification that this information is true, accurate, and complete.

Doug McLain

Doug McLain, Facility Manager

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039 Expires 9-30-99

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. OK0000963348 Manifest Document No. BF 027

2. Page 1 of 1

Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
WILLIAMS GAS PIPELINE ---BUFFALO, OK
13430 WEST 98TH ST BLDG 5, SHAWNEE MISSION, KS 66215

4. Generator's Phone (913) 310-7625

A. State Manifest Document Number

B. State Generator's ID

5. Transporter 1 Company Name: NP ENVIRONMENTAL

6. US EPA ID Number: CAT000624247

C. State Transporter's ID

D. Transporter's Phone: (888) 637-8089

7. Transporter 2 Company Name

8. US EPA ID Number

E. State Transporter's ID

F. Transporter's Phone

9. Designated Facility Name and Site Address
SAFETY-KLEEN(LONE MOUNTAIN)INC
5E & 1N OF JCT 412 & 281
WAYNOKA, OK 73860-9622

10. US EPA ID Number: OKD065438376

G. State Facility's ID

H. Facility's Phone: (580) 697-3500

11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)	HM	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. POLYCHLORINATED BIPHENYLS, 9, NA2315, III, RQ(PCB'S)	RQ	001	DT	EST. 18000	K	NONE
b.						
c.						
d.						

J. Additional Descriptions for Materials Listed Above
Additional RCRA Waste Codes a. b. c. d.

K. Handling Codes for Wastes Listed Above
a. H132 b. c. d. SW 47420

15. Special Handling Instructions and Additional Information
Approval Numbers a. LH99-0131-06 b. c. d.
Emergency Contact: 913-310-7625
DATE OF REMOVAL FROM SERVICE 08/21/02

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.

If I am a 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 small quantity 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: Danny L Larkey Signature: Danny L Larkey Date: Month 08 Day 21 Year 02

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Lonnie Blair Signature: Lonnie Blair Date: Month 08 Day 21 Year 02

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name: Signature: Date: Month Day Year

FACILITY

19. Discrepancy Indication Space
Sec. 13 - per Mark Sullivan - Most weight is estimated.
Resolve to Lone Mountain Weight 21505 . 8/21/02 VS 02-3894

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.
Printed/Typed Name: BER DEANE PECK Signature: Ber Deane Peck Date: Month 08 Day 21 Year 02

EPA Form 8700-22 (Rev. 9-88) previous editions obsolete

SAFETY-KLEEN CORP.

90290 (Rev 11/98) 6

ORIGINAL - RETURN TO GENERATOR

Estimated burden hours for completing this form vary from 1 hour to 3 hours per response including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding the burden estimate, including suggestions for reducing this burden, to: Chief, Information Policy Branch, PM-223, U.S. Environmental Protection Agency, 401 M Street, SW, Washington, DC 20460; and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, DC 20503.

INSTRUCTIONS FOR COMPLETION OF THIS FORM, REFER CODE OF FEDERAL REGULATIONS 40 PART 262.20

PCB WASTE - CERTIFICATE OF DISPOSAL

Safety-Kleen (Lone and Grassy Mountain), Inc.
Lone Mountain Facility
Route 2, Box 170
Waynoka, OK 73860
EPA ID # - OKD065438376

As required by 40 CFR 761.218, we are providing this Certificate of Disposal to WILLIAMS GAS PIPELINE -BUFFALO, EPA ID # OK0000963348 to confirm that

LINE	PROFILE No.	WASTE NAME	WEIGHT Kg	TYPE	CNTNRS	DISPOSED
1/A	LM99-0131-06	3006068 PCB SOIL & DEBRIS	21505.67	BULK	1	08/21/02

shipped on manifest number OK0000963348-BF027 was/were disposed in a RCRA hazardous waste landfill.

Under civil and criminal penalties of law for the making or submission of false or fraudulant statements or representations (18 U.S.C. 1001 and 15 U.S.C. 2615), I certify that the information contained in or accompanying this document is true, accurate, and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy, I certify as the company official having supervisory responsibility for the person who, acting under my direct instructions, made the verification that this information is true, accurate, and complete.

Doug McLain

Doug McLain, Facility Manager

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) 820 # 50205 Trk # 820

Form Approved. OMB No. 2050-0039 Expires 9-30-99

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. OK0000963348 Manifest Document No. BF 028

2. Page 1 of 1

Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
WILLIAMS GAS PIPELINE ---BUFFALO, OK
13430 WEST 98TH ST BLDG 5, SHAWNEE MISSION, KS 66215

4. Generator's Phone (913) 310-7625

A. State Manifest Document Number

B. State Generator's ID

5. Transporter 1 Company Name
NP ENVIRONMENTAL

6. US EPA ID Number
CAT000624247

C. State Transporter's ID

D. Transporter's Phone (888) 637-8809

7. Transporter 2 Company Name

8. US EPA ID Number

E. State Transporter's ID

F. Transporter's Phone

9. Designated Facility Name and Site Address
SAFETY-KLEEN(LONE MOUNTAIN)INC
5E & 1N OF JCT 412 & 281
WATONGA, OK 73860-9622

10. US EPA ID Number
OKD065438376

G. State Facility's ID

H. Facility's Phone (580) 697-3500

11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)	HM	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. POLYCHLORINATED BIPHENYLS, 9, NA2315, III, RQ(PCB'S)	NO	001	DT	EST. 18000	K	NONE
b.						
c.						
d.						

J. Additional Descriptions for Materials Listed Above
Additional RCRA Waste Codes a. b. c. d.

K. Handling Codes for Wastes Listed Above
a. H132 b. c. d. SW 51060

15. Special Handling Instructions and Additional Information
Approval Numbers a. LK99-0131-06 b. c. d.
Emergency Contact: 913-310-7625
DATE OF REMOVAL FROM SERVICE 08/21/02

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.

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Printed/Typed Name: Danny L Larkey — Signature: Danny L Larkey — Date: Month 08 Day 21 Year 02

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Kevin Pollock — Signature: Kevin Pollock — Date: Month 08 Day 21 Year 02

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name — Signature — Date: Month Day Year

19. Discrepancy Indication Space
Sec. 13 - per Mark Sullivan - Most weight is estimated.
Resolve to Lone Mountain Weight 231560. 8/21/02 VS
02-3895

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name: BERDEANE PECK — Signature: Ber Deane Peck — Date: Month 08 Day 21 Year 02

EPA Form 8700-22 (Rev. 9-88) previous editions obsolete

SAFETY-KLEEN CORP.

90290 (Rev 11/98) 6

ORIGINAL - RETURN TO GENERATOR

GENERATOR

TRANSPORTER

FACILITY

INSTRUCTIONS FOR COMPLETION OF THIS FORM, REFER CODE OF FEDERAL REGULATIONS 40 PART 262-20

223, U.S. Environmental Protection Agency, 401 M Street, SW, Washington, DC 20460; and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, DC 20503.

PCB WASTE - CERTIFICATE OF DISPOSAL

Safety-Kleen (Lone and Grassy Mountain), Inc.
Lone Mountain Facility
Route 2, Box 170
Waynoka, OK 73860
EPA ID # - OKD065438376

As required by 40 CFR 761.218, we are providing this Certificate of Disposal to WILLIAMS GAS PIPELINE -BUFFALO,
EPA ID # OK0000963348 to confirm that

LINE	PROFILE No.	WASTE NAME	WEIGHT Kg	TYPE	CNTNRS	DISPOSED
1/A	LM99-0131-06	3006068 PCB SOIL & DEBRIS	23156.46	BULK	1	08/21/02

shipped on manifest number OK0000963348-BF028 was/were disposed in a RCRA hazardous waste landfill.

Under civil and criminal penalties of law for the making or submission of false or fraudulant statements or representations (18 U.S.C. 1001 and 15 U.S.C. 2615), I certify that the information contained in or accompanying this document is true, accurate, and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy, I certify as the company official having supervisory responsibility for the person who, acting under my direct instructions, made the verification that this information is true, accurate, and complete.

Doug McLain

Doug McLain, Facility Manager

SWO 50201 551-929

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039 Expires 9-30-99

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. OK0000963348 | Manifest Document No. BF 029 | 2. Page 1 of

Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
WILLIAMS GAS PIPELINE ---BUFFALO, OK
13430 WEST 98TH ST BLDG 5, SHAWNEE MISSION, KS 66215

4. Generator's Phone (913) 310-7625

A. State Manifest Document Number
B. State Generator's ID

5. Transporter 1 Company Name: NP ENVIRONMENTAL
6. US EPA ID Number: CAT000624247

C. State Transporter's ID
D. Transporter's Phone: (888) 637-8889

7. Transporter 2 Company Name
8. US EPA ID Number

E. State Transporter's ID
F. Transporter's Phone

9. Designated Facility Name and Site Address
SAFETY-KLEEN(LONE MOUNTAIN)INC
5E & 1N OF JCT 412 & 281
WATONGA, OK 73860-9622
10. US EPA ID Number: OKD065438376

G. State Facility's ID
H. Facility's Phone: (580) 697-3500

	11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)	HM	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
GENERATOR a.	POLYCHLORINATED BIPHENYLS, 9, NA2315, III, RQ(PCB'S)	RQ	001	DT	EST. 18000	K	NONE
b.							
c.							
d.							

J. Additional Descriptions for Materials Listed Above
Additional a.
EPA Waste b.
Codes c.
d.

K. Handling Codes for Wastes Listed Above
a. H132
b.
c.
d. SW 45940

15. Special Handling Instructions and Additional Information
Approval Numbers a. LK99-0131-06 b. c. d.
Emergency Contact: 913-310-7625
DATE OF REMOVAL FROM SERVICE 08/21/02

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.

If I am a 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 small quantity 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: Danny L Carkey | Signature: Danny L Carkey | Date: Month 08 Day 21 Year 02

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Leroy Zulewska | Signature: LeRoy Zulewska | Date: Month 08 Day 21 Year 02

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name | Signature | Date: Month Day Year

FACILITY

19. Discrepancy Indication Space
Sec. 13 - per Mark Sullivan - Most weight is estimated.
Resolve to Lone Mountain Weight 20834 . 8/21/02 (S)
02-3899

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.
Printed/Typed Name: BerDeane Peck | Signature: BerDeane Peck | Date: Month 08 Day 21 Year 02

EPA Form 8700-22 (Rev. 9-88) previous editions obsolete

SAFETY-KLEEN CORP.

90290 (Rev 11/98) 6

ORIGINAL - RETURN TO GENERATOR

INSTRUCTIONS FOR COMPLETION OF THIS FORM, REFER CODE OF FEDERAL REGULATIONS 40 PART 262.20

223, U.S. Environmental Protection Agency, 401 M Street, SW, Washington, DC 20460; and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, DC 20503.

PCB WASTE - CERTIFICATE OF DISPOSAL

Safety-Kleen (Lone and Grassy Mountain), Inc.
Lone Mountain Facility
Route 2, Box 170
Waynoka, OK 73860
EPA ID # - OKD065438376

As required by 40 CFR 761.218, we are providing this Certificate of Disposal to WILLIAMS GAS PIPELINE -BUFFALO, EPA ID # OK0000963348 to confirm that

LINE	PROFILE No.	WASTE NAME	WEIGHT Kg	TYPE	CNTNRS	DISPOSED
1/A	LM99-0131-06	3006068 PCB SOIL & DEBRIS	20834.47	BULK	1	08/21/02

shipped on manifest number OK0000963348-BF029 was/were disposed in a RCRA hazardous waste landfill.

Under civil and criminal penalties of law for the making or submission of false or fraudulant statements or representations (18 U.S.C. 1001 and 15 U.S.C. 2615), I certify that the information contained in or accompanying this document is true, accurate, and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy, I certify as the company official having supervisory responsibility for the person who, acting under my direct instructions, made the verification that this information is true, accurate, and complete.

Doug McLain

Doug McLain, Facility Manager

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039 Expires 9-30-99

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. OK0000963348 Manifest Document No. BF 030

2. Page 1 of

Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
WILLIAMS GAS PIPELINE ---BUFFALO, OK
13430 WEST 98TH ST BLDG 5, SHAWNEE MISSION, KS 66215

4. Generator's Phone (913) 310-7625

A. State Manifest Document Number

B. State Generator's ID

5. Transporter 1 Company Name: NP ENVIRONMENTAL

6. US EPA ID Number: CAT000624247

C. State Transporter's ID

D. Transporter's Phone (918) 637-8009

7. Transporter 2 Company Name

8. US EPA ID Number

E. State Transporter's ID

F. Transporter's Phone

9. Designated Facility Name and Site Address
SAFETY-KLEEN(LONE MOUNTAIN)INC
SE & IN OF JCT 412 & 281
WAYNOKA, OK 73860-9622

10. US EPA ID Number: OKD065438376

G. State Facility's ID

H. Facility's Phone (580) 697-3500

	11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)	HM	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a.	POLYCHLORINATED BIPHENYLS, 9, NA2315, III, RQ(PCB'S)	RQ	001	DT	EST. 18000	K	NONE
b.							
c.							
d.							

J. Additional Descriptions for Materials Listed Above
Additional RCRA Waste Codes a. b. c. d.

K. Handling Codes for Wastes Listed Above
a. H132 b. c. d. SW 43820

15. Special Handling Instructions and Additional Information
Approval Numbers a.LN99-0131-06 b. c. d.
Emergency Contact: 913-310-7625

DATE OF REMOVAL FROM SERVICE 08/21/02

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.

If I am a 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 small quantity 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: Danny L Larkey Signature: Danny L Larkey Date: Month 08 Day 21 Year 02

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Steve Etherton Signature: Steve Etherton Date: Month 08 Day 21 Year 02

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name: Signature: Date: Month Day Year

19. Discrepancy Indication Space
02-3896

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.
Printed/Typed Name: BERDEANE PECK Signature: Berdeane Peck Date: Month 08 Day 21 Year 02

GENERATOR / TRANSPORTER / FACILITY

EPA Form 8700-22 (Rev. 9-88) previous editions obsolete

SAFETY-KLEEN CORP.

90290 (Rev 11/98) 6

ORIGINAL - RETURN TO GENERATOR

INSTRUCTIONS FOR COMPLETION OF THIS FORM, REFER CODE OF FEDERAL REGULATIONS 40 PART 262.20

223, U.S. Environmental Protection Agency, 401 M Street, SW, Washington, DC 20460; and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, DC 20503.

PCB WASTE - CERTIFICATE OF DISPOSAL

Safety-Kleen (Lone and Grassy Mountain), Inc.
Lone Mountain Facility
Route 2, Box 170
Waynoka, OK 73860
EPA ID # - OKD065438376

As required by 40 CFR 761.218, we are providing this Certificate of Disposal to WILLIAMS GAS PIPELINE -BUFFALO, EPA ID # OK0000963348 to confirm that

LINE	PROFILE No.	WASTE NAME	WEIGHT Kg	TYPE	CNTNRS	DISPOSED
1/A	LM99-0131-06	3006068 PCB SOIL & DEBRIS	19873.02	BULK	1	08/21/02

shipped on manifest number OK0000963348-BF030 was/were disposed in a RCRA hazardous waste landfill.

Under civil and criminal penalties of law for the making or submission of false or fraudulant statements or representations (18 U.S.C. 1001 and 15 U.S.C. 2615), I certify that the information contained in or accompanying this document is true, accurate, and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy, I certify as the company official having supervisory responsibility for the person who, acting under my direct instructions, made the verification that this information is true, accurate, and complete.

Doug McLain

Doug McLain, Facility Manager

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039 Expires 9-30-99

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. OK0000963348 Manifest Document No. BF 031

2. Page 1 of

Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
WILLIAMS GAS PIPELINE ---BUFFALO, OK
13430 WEST 98TH ST BLDG 5, SHAWNEE MISSION, KS 66215

4. Generator's Phone (913) 310-7625

A. State Manifest Document Number

B. State Generator's ID

5. Transporter 1 Company Name: NF ENVIRONMENTAL

6. US EPA ID Number: CAT000624247

C. State Transporter's ID

D. Transporter's Phone (888) 637-8889

7. Transporter 2 Company Name

8. US EPA ID Number

E. State Transporter's ID

F. Transporter's Phone

9. Designated Facility Name and Site Address
SAFETY-KLEEN(LONE MOUNTAIN)INC
5E & 1N OF JCT 412 & 281
WAYNOKA, OK 73860-9622

10. US EPA ID Number: OKD065438376

G. State Facility's ID

H. Facility's Phone (580) 697-3500

	11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)	HM	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a.	POLYCHLORINATED BIPHENYLS, 9, NA2315, III, RQ(PCB'S)	RQ	001	DT	EST. 18000	K	NONE
b.							
c.							
d.							

J. Additional Descriptions for Materials Listed Above
Additional RCRA Waste Codes a. b. c. d.

K. Handling Codes for Wastes Listed Above
a. H132 b. c. d. SW42420

15. Special Handling Instructions and Additional Information
Approval Numbers a. LK99-0131-06 b. c. d.
Emergency Contact: 913-310-7625
DATE OF REMOVAL FROM SERVICE 08/21/02

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.

If I am a 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 small quantity 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: Danny C Larkey Signature: Danny C Larkey Date: Month 08 Day 21 Year 02

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: STONY AVANTS Signature: Stony Avants Date: Month 08 Day 21 Year 02

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name: Signature: Date: Month Day Year

19. Discrepancy Indication Space
02-3897

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.
Printed/Typed Name: BER DEANE PECK Signature: Ber Deane Peck Date: Month 08 Day 21 Year 02

GENERATOR TRANSPORTER FACILITY

EPA Form 8700-22 (Rev. 9-88) previous editions obsolete

SAFETY-KLEEN CORP.

90290 (Rev 11/98) 6

ORIGINAL - RETURN TO GENERATOR

INSTRUCTIONS FOR COMPLETION OF THIS FORM, REFER CODE OF FEDERAL REGULATIONS 40 PART 262.20

223, U.S. Environmental Protection Agency, 401 M Street, SW, Washington, DC 20460; and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, DC 20503.

PCB WASTE - CERTIFICATE OF DISPOSAL

Safety-Kleen (Lone and Grassy Mountain), Inc.
Lone Mountain Facility
Route 2, Box 170
Waynoka, OK 73860
EPA ID # - OKD065438376

As required by 40 CFR 761.218, we are providing this Certificate of Disposal to WILLIAMS GAS PIPELINE -BUFFALO, EPA ID # OK0000963348 to confirm that

LINE	PROFILE No.	WASTE NAME	WEIGHT Kg	TYPE	CNTNRS	DISPOSED
1/A	LM99-0131-06	3006068 PCB SOIL & DEBRIS	19238.10	BULK	1	08/21/02

shipped on manifest number OK0000963348-BF031 was/were disposed in a RCRA hazardous waste landfill.

Under civil and criminal penalties of law for the making or submission of false or fraudulant statements or representations (18 U.S.C. 1001 and 15 U.S.C. 2615), I certify that the information contained in or accompanying this document is true, accurate, and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy, I certify as the company official having supervisory responsibility for the person who, acting under my direct instructions, made the verification that this information is true, accurate, and complete.

Doug McLain

Doug McLain, Facility Manager

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039 Expires 9-30-99

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. OK0000963348 Manifest Document No. BF 032

2. Page 1 of 1

Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
WILLIAMS GAS PIPELINE ---BUFFALO, OK
13430 WEST 98TH ST BLDG 5, SHAWNEE MISSION, KS 66215

4. Generator's Phone (913) 310-7625

5. Transporter 1 Company Name: BF ENVIRONMENTAL

6. US EPA ID Number: CAT000624247

7. Transporter 2 Company Name

8. US EPA ID Number

9. Designated Facility Name and Site Address
SAFETY-KLEEN(LONE MOUNTAIN)INC
SE & 1N OF JCT 412 & 281
HAYNOKA, OK 73860-9622

10. US EPA ID Number: OKD065438376

A. State Manifest Document Number
B. State Generator's ID
C. State Transporter's ID
D. Transporter's Phone (888) 637-8889
E. State Transporter's ID
F. Transporter's Phone
G. State Facility's ID
H. Facility's Phone (580) 697-3500

11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)	HM	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. POLYCHLORINATED BIPHENYLS, 9, NA2315, III, RQ(PCB'S)	X	001	DT	EST. 18000	K	NONE
b.						
c.						
d.						

J. Additional Descriptions for Materials Listed Above
Additional RCRA Waste Codes a. b. c. d. SW 50215

K. Handling Codes for Wastes Listed Above
a. H132 b. c. d. SW 41320

15. Special Handling Instructions and Additional Information
Approval Numbers a. LN99-0131-06 b. c. d.
Emergency Contact: 913-310-7625
DATE OF REMOVAL FROM SERVICE 08/21/02

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.

If I am a 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 small quantity 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: Danny L Larkey Signature: Danny L Larkey Date: Month 08 Day 21 Year 02

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Allen D Moulder Signature: Allen D Moulder Date: Month 08 Day 21 Year 02

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name: Signature: Date: Month Day Year

19. Discrepancy Indication Space
02-3898

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.
Printed/Typed Name: BERDEANE PECK Signature: Ber Deane Peck Date: Month 08 Day 21 Year 02

GENERATOR / TRANSPORTER / FACILITY

EPA Form 8700-22 (Rev. 9-88) previous editions obsolete

SAFETY-KLEEN CORP.

90290 (Rev 11/98) 6

ORIGINAL - RETURN TO GENERATOR

INSTRUCTIONS FOR COMPLETION OF THIS FORM, REFER CODE OF FEDERAL REGULATIONS, 40 PART 262.20

223, U.S. Environmental Protection Agency, 401 M Street, SW, Washington, DC 20460; and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, DC 20503.

PCB WASTE - CERTIFICATE OF DISPOSAL

Safety-Kleen (Lone and Grassy Mountain), Inc.
Lone Mountain Facility
Route 2, Box 170
Waynoka, OK 73860
EPA ID # - OKD065438376

As required by 40 CFR 761.218, we are providing this Certificate of Disposal to WILLIAMS GAS PIPELINE -BUFFALO, EPA ID # OK0000963348 to confirm that

LINE	PROFILE No.	WASTE NAME	WEIGHT Kg	TYPE	CNTNRS	DISPOSED
1/A	LM99-0131-06	3006068 PCB SOIL & DEBRIS	18739.23	BULK	1	08/21/02

shipped on manifest number OK0000963348-BF032 was/were disposed in a RCRA hazardous waste landfill.

Under civil and criminal penalties of law for the making or submission of false or fraudulant statements or representations (18 U.S.C. 1001 and 15 U.S.C. 2615), I certify that the information contained in or accompanying this document is true, accurate, and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy, I certify as the company official having supervisory responsibility for the person who, acting under my direct instructions, made the verification that this information is true, accurate, and complete.

Doug McLain

Doug McLain, Facility Manager

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039 Expires 9-30-99

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. OK0000963348 | Manifest Document No. BF 033

2. Page 1 of

Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
WILLIAMS GAS PIPELINE ---BUFFALO, OK
13430 WEST 98TH ST BLDG 5, SHAWNEE MISSION, KS 66215

4. Generator's Phone (913) 310-7625

A. State Manifest Document Number

B. State Generator's ID

5. Transporter 1 Company Name: HP ENVIRONMENTAL

6. US EPA ID Number: CAT000624247

C. State Transporter's ID

D. Transporter's Phone: (888) 637-8009

7. Transporter 2 Company Name

8. US EPA ID Number

E. State Transporter's ID

F. Transporter's Phone

9. Designated Facility Name and Site Address
SAFETY-KLEEN(LONE MOUNTAIN)INC
5E & 1N OF JCT 412 & 281
HAYNOKA, OK 73860-9622

10. US EPA ID Number: OKD065438376

G. State Facility's ID

H. Facility's Phone: (580) 697-3500

11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)	HM	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. POLYCHLORINATED BIPHENYLS, 9, NA2315, III, RQ(PCB'S)	RQ	001	DT	EST. 18000	K	NONE
b.						
c.						
d.						

J. Additional Descriptions for Materials Listed Above
Additional a.
EPA Waste b.
Codes c.
d.

K. Handling Codes for Wastes Listed Above
a. H132
b.
c.
d. SW 35060

15. Special Handling Instructions and Additional Information
Approval Numbers a. LN99-0131-06 b. c. d.
Emergency Contact: 913-310-7625
DATE OF REMOVAL FROM SERVICE 08/21/02
SWO # 50211

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.

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GENERATOR — Printed/Typed Name: Danny L Larkey | Signature: Danny L Larkey | Date: Month 08 Day 21 Year 02

TRANSPORTER — 17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Erix M. Willson | Signature: Erix M. Willson | Date: Month 08 Day 21 Year 02

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name | Signature | Date: Month Day Year

FACILITY — 19. Discrepancy Indication Space
Sec. 13 - per Mark Sullivan - Most weight is estimated.
Resolve to Lone Mountain Weight 15900 . 8/21/02 VS
02-3900

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.
Printed/Typed Name: BER DEANE PECK | Signature: Ber Deane Peck | Date: Month 08 Day 21 Year 02

EPA Form 8700-22 (Rev. 9-88) previous editions obsolete

SAFETY-KLEEN CORP.

90290 (Rev 11/98) 6

ORIGINAL - RETURN TO GENERATOR

INSTRUCTIONS FOR COMPLETION OF THIS FORM, REFER CODE OF FEDERAL REGULATIONS 40 PART 262.20

223, U.S. Environmental Protection Agency, 401 M Street, SW, Washington, DC 20460; and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, DC 20503.

PCB WASTE - CERTIFICATE OF DISPOSAL

Safety-Kleen (Lone and Grassy Mountain), Inc.
Lone Mountain Facility
Route 2, Box 170
Waynoka, OK 73860
EPA ID # - OKD065438376

As required by 40 CFR 761.218, we are providing this Certificate of Disposal to WILLIAMS GAS PIPELINE -BUFFALO, EPA ID # OK0000963348 to confirm that

LINE	PROFILE No.	WASTE NAME	WEIGHT Kg	TYPE	CNTNRS	DISPOSED
1/A	LM99-0131-06	3006068 PCB SOIL & DEBRIS	15900.23	BULK	1	08/21/02

shipped on manifest number OK0000963348-BF033 was/were disposed in a RCRA hazardous waste landfill.

Under civil and criminal penalties of law for the making or submission of false or fraudulant statements or representations (18 U.S.C. 1001 and 15 U.S.C. 2615), I certify that the information contained in or accompanying this document is true, accurate, and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy, I certify as the company official having supervisory responsibility for the person who, acting under my direct instructions, made the verification that this information is true, accurate, and complete.

Doug McLain

Doug McLain, Facility Manager

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039 Expires 9-30-99

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: OK0000963348
Manifest Document No.: BF 034
2. Page 1 of 1
Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
WILLIAMS GAS PIPELINE ---BUFFALO, OK
13430 WEST 98TH ST BLDG 5, SHAWNEE MISSION, KS 66215
4. Generator's Phone (913) 310-7625

A. State Manifest Document Number
B. State Generator's ID

5. Transporter 1 Company Name: NF ENVIRONMENTAL
6. US EPA ID Number: CAT000624247
C. State Transporter's ID
D. Transporter's Phone (888) 637-8889

7. Transporter 2 Company Name
8. US EPA ID Number
E. State Transporter's ID
F. Transporter's Phone

9. Designated Facility Name and Site Address
SAFETY-KLEEN(LONE MOUNTAIN)INC
5E & 1N OF JCT 412 & 281
WAYNOKA, OK 73860-9622
10. US EPA ID Number: OKD065438376
G. State Facility's ID
H. Facility's Phone (580) 697-3500

11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)	HM		12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a.	RQ	POLYCHLORINATED BIPHENYLS, 9, NA2315, III, RQ(PCB'S)	001	DT	EST. 18000	K	NONE
b.							
c.							
d.							

J. Additional Descriptions for Materials Listed Above
Additional EPA Waste Codes a. b. c. d.

K. Handling Codes for Wastes Listed Above
a. H132
b.
c.
d.
SW35800

15. Special Handling Instructions and Additional Information
Approval Numbers a. LH99-0131-06 b. c. d.
Emergency Contact: 913-310-7625
DATE OF REMOVAL FROM SERVICE 08/21/02

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.

If I am a 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 small quantity 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: Danny L Larkey
Signature: Danny L Larkey
Date: Month 08 Day 21 Year 02

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Rinnie Stanley
Signature: Rinnie Stanley
Date: Month 08 Day 21 Year 02

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name
Signature
Date: Month Day Year

19. Discrepancy Indication Space
Sec. 13 - per Mark Sullivan - Most weight is estimated.
Resolve to Lone Mountain Weight 16235. 8/21/02 VS
02-3901

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.
Printed/Typed Name: BERDEANE PECK
Signature: Ber Deane Peck
Month 08 Day 21 Year 02

GENERATOR / TRANSPORTER / FACILITY

EPA Form 8700-22 (Rev. 9-88) previous editions obsolete

SAFETY-KLEEN CORP.

90290 (Rev 11/98) 6

ORIGINAL - RETURN TO GENERATOR

INSTRUCTIONS FOR COMPLETION OF THIS FORM, REFER CODE OF FEDERAL REGULATIONS 40 PART 262.20

223. U.S. Environmental Protection Agency, 401 M Street, SW, Washington, DC 20460; and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, DC 20503.

PCB WASTE - CERTIFICATE OF DISPOSAL

Safety-Kleen (Lone and Grassy Mountain), Inc.
Lone Mountain Facility
Route 2, Box 170
Waynoka, OK 73860
EPA ID # - OKD065438376

As required by 40 CFR 761.218, we are providing this Certificate of Disposal to WILLIAMS GAS PIPELINE -BUFFALO, EPA ID # OK0000963348 to confirm that

LINE	PROFILE No.	WASTE NAME	WEIGHT Kg	TYPE	CNTNRS	DISPOSED
1/A	LM99-0131-06	3006068 PCB SOIL & DEBRIS	16235.83	BULK	1	08/21/02

shipped on manifest number OK0000963348-BF034 was/were disposed in a RCRA hazardous waste landfill.

Under civil and criminal penalties of law for the making or submission of false or fraudulant statements or representations (18 U.S.C. 1001 and 15 U.S.C. 2615), I certify that the information contained in or accompanying this document is true, accurate, and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy, I certify as the company official having supervisory responsibility for the person who, acting under my direct instructions, made the verification that this information is true, accurate, and complete.

Doug McLain

Doug McLain, Facility Manager

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039 Expires 9-30-99

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: OK0000963348
Manifest Document No.: BF 035

2. Page 1 of 1

Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
WILLIAMS GAS PIPELINE ---BUFFALO, OK
13430 WEST 98TH ST BLDG 5, SHAWNEE MISSION, KS 66215

4. Generator's Phone (913) 310-7625

A. State Manifest Document Number

B. State Generator's ID

5. Transporter 1 Company Name: HP ENVIRONMENTAL
6. US EPA ID Number: CAT000624247

C. State Transporter's ID

D. Transporter's Phone: (888) 637-8889

7. Transporter 2 Company Name
8. US EPA ID Number

E. State Transporter's ID

F. Transporter's Phone

9. Designated Facility Name and Site Address
SAFETY-KLEEN(LONE MOUNTAIN)INC
5E & 1N OF JCT 412 & 281
WAYNOKA, OK 73860-9622
10. US EPA ID Number: OKD065438376

G. State Facility's ID

H. Facility's Phone: (580) 697-3500

11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)	HM	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. POLYCHLORINATED BIPHENYLS, 9, NA2315, III, RQ(PCB'S)	RQ	001	DT	EST. 10000	K	NONE
b.						
c.						
d.						

J. Additional Descriptions for Materials Listed Above
Additional EPA Waste Codes: a. b. c. d.

K. Handling Codes for Wastes Listed Above
a. H132 b. c. d. SW39780

15. Special Handling Instructions and Additional Information
Approval Numbers: a. LN99-0131-06 b. c. d.
Emergency Contact: 913-310-7625
DATE OF REMOVAL FROM SERVICE 08/21/02

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.

If I am a 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 small quantity 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: Danny C Larkey
Signature: Danny C Larkey
Date: Month 08 Day 21 Year 02

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Tom LeMKE
Signature: Tom Lemke
Date: Month 08 Day 21 Year 02

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name
Signature
Date: Month Day Year

19. Discrepancy Indication Space
02-3903

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.
Printed/Typed Name: BERDEANE PECK
Signature: BerDeane Peck
Date: Month 08 Day 21 Year 02

EPA Form 8700-22 (Rev. 9-88) previous editions obsolete

SAFETY-KLEEN CORP.

90290 (Rev 11/98) 6

ORIGINAL - RETURN TO GENERATOR

GENERATOR

TRANSPORTER

FACILITY

INSTRUCTIONS FOR COMPLETION OF THIS FORM, REFER CODE OF FEDERAL REGULATIONS 40 PART 262.20

223, U.S. Environmental Protection Agency, 401 M Street, SW, Washington, DC 20460; and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, DC 20503.

PCB WASTE - CERTIFICATE OF DISPOSAL

Safety-Kleen (Lone and Grassy Mountain), Inc.
Lone Mountain Facility
Route 2, Box 170
Waynoka, OK 73860
EPA ID # - OKD065438376

As required by 40 CFR 761.218, we are providing this Certificate of Disposal to WILLIAMS GAS PIPELINE -BUFFALO, EPA ID # OK0000963348 to confirm that

LINE	PROFILE No.	WASTE NAME	WEIGHT Kg	TYPE	CNTNRS	DISPOSED
1/A	LM99-0131-06	3006068 PCB SOIL & DEBRIS	18040.82	BULK	1	08/21/02

shipped on manifest number OK0000963348-BF035 was/were disposed in a RCRA hazardous waste landfill.

Under civil and criminal penalties of law for the making or submission of false or fraudulant statements or representations (18 U.S.C. 1001 and 15 U.S.C. 2615), I certify that the information contained in or accompanying this document is true, accurate, and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy, I certify as the company official having supervisory responsibility for the person who, acting under my direct instructions, made the verification that this information is true, accurate, and complete.

Doug McLain

Doug McLain, Facility Manager

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039 Expires 9-30-99

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. OK0000963348 Manifest Document No. BF 036 2. Page 1 of

Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
WILLIAMS GAS PIPELINE---BUFFALO, OK
13430 WEST 98TH ST BLDG 5, SHAWNEE MISSION, KS 66215
4. Generator's Phone (913) 310-7625

A. State Manifest Document Number
B. State Generator's ID

5. Transporter 1 Company Name: KP ENVIRONMENTAL
6. US EPA ID Number: CAT000624247
C. State Transporter's ID
D. Transporter's Phone (888) 637-0889

7. Transporter 2 Company Name
8. US EPA ID Number
E. State Transporter's ID
F. Transporter's Phone

9. Designated Facility Name and Site Address
SAFETY-KLEEN(LONE MOUNTAIN)INC
5E & 1N OF JCT 412 & 281
WAYNOKA, OK 73860-9622
10. US EPA ID Number: OKD065438376
G. State Facility's ID
H. Facility's Phone (580) 697-3500

11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)	HM	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. POLYCHLORINATED BIPHENYLS, 9, NA2315, III, RQ(PCB'S)	X Q	001	DT	EST. 18000	K	NONE
b.						
c.						
d.						

J. Additional Descriptions for Materials Listed Above
Additional EPA Waste Codes a. b. c. d.

K. Handling Codes for Wastes Listed Above
a. H132 b. c. d. SW 44260

15. Special Handling Instructions and Additional Information
Approval Numbers a. LN99-0131-06 b. c. d.
Emergency Contact: 913-310-7625
DATE OF REMOVAL FROM SERVICE 08/21/02

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.

If I am a 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 small quantity 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: Danny L Lackey Signature: Danny L Lackey Date: Month 08 Day 21 Year 02

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Leon McDaniels Signature: Leon McDaniels Date: Month 08 Day 21 Year 02

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name Signature Date: Month Day Year

FACILITY

19. Discrepancy Indication Space
02-3902

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.
Printed/Typed Name: Ber Deane Peck Signature: Ber Deane Peck Date: Month 08 Day 21 Year 02

EPA Form 8700-22 (Rev. 9-88) previous editions obsolete

SAFETY-KLEEN CORP.

90290 (Rev 11/98) 6

ORIGINAL - RETURN TO GENERATOR

223, U.S. Environmental Protection Agency, 401 M Street, SW, Washington, DC 20460; and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, DC 20503.

INSTRUCTIONS FOR COMPLETION OF THIS FORM, REFER CODE OF FEDERAL REGULATIONS 40 PART 262.20

PCB WASTE - CERTIFICATE OF DISPOSAL

Safety-Kleen (Lone and Grassy Mountain), Inc.
Lone Mountain Facility
Route 2, Box 170
Waynoka, OK 73860
EPA ID # - OKD065438376

As required by 40 CFR 761.218, we are providing this Certificate of Disposal to WILLIAMS GAS PIPELINE -BUFFALO, EPA ID # OK0000963348 to confirm that

LINE	PROFILE No.	WASTE NAME	WEIGHT Kg	TYPE	CNTNRS	DISPOSED
1/A	LM99-0131-06	3006068 PCB SOIL & DEBRIS	20072.56	BULK	1	08/21/02

shipped on manifest number OK0000963348-BF036 was/were disposed in a RCRA hazardous waste landfill.

Under civil and criminal penalties of law for the making or submission of false or fraudulant statements or representations (18 U.S.C. 1001 and 15 U.S.C. 2615), I certify that the information contained in or accompanying this document is true, accurate, and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy, I certify as the company official having supervisory responsibility for the person who, acting under my direct instructions, made the verification that this information is true, accurate, and complete.

Doug McLain

Doug McLain, Facility Manager

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039 Expires 9-30-99

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. OK0000963348 Manifest Document No. BF 037

2. Page 1 of 1

Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
WILLIAMS GAS PIPELINE ---BUFFALO, OK
13430 WEST 98TH ST BLDG 5, SHAWNEE MISSION, KS 66215

4. Generator's Phone (913) 310-7625

A. State Manifest Document Number

B. State Generator's ID

5. Transporter 1 Company Name: NF ENVIRONMENTAL

6. US EPA ID Number: CAT000624247

C. State Transporter's ID

D. Transporter's Phone: (888) 637-8889

7. Transporter 2 Company Name

8. US EPA ID Number

E. State Transporter's ID

F. Transporter's Phone

9. Designated Facility Name and Site Address
SAFETY-KLEEN(LONE MOUNTAIN)INC
5E & 1N OF JCT 412 & 281
WAYNOKA, OK 73860-9622

10. US EPA ID Number: OKD065438376

G. State Facility's ID

H. Facility's Phone: (580) 697-3500

	11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)	HM	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a.	POLYCHLORINATED BIPHENYLS, 9, NA2315, III, RQ(PCB'S)	X Q	001	DT	EST. 18000	K	NONE
b.							
c.							
d.							

J. Additional Descriptions for Materials Listed Above
Additional EPA Waste Codes a. b. c. d.

K. Handling Codes for Wastes Listed Above
a. H132 b. c. d. SW 39040

15. Special Handling Instructions and Additional Information
Approval Numbers a. LK99-0131-06 b. c. d.
Emergency Contact: 913-310-7625
DATE OF REMOVAL FROM SERVICE 08/21/02
SWO# 50200 TRLR# 916

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.

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Printed/Typed Name	Signature	Date Month Day Year
Danny L Larkey	Danny L Larkey	08 21 02

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date Month Day Year
Jeffery L. Couch	[signature]	08 21 02

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date Month Day Year

19. Discrepancy Indication Space
02-3907

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.

Printed/Typed Name	Signature	Date Month Day Year
BER DEANE PECK	Ber Deane Peck	08 21 02

EPA Form 8700-22 (Rev. 9-88) previous editions obsolete

SAFETY-KLEEN CORP.

90290 (Rev 11/98) 6

ORIGINAL - RETURN TO GENERATOR

GENERATOR

TRANSPORTER

FACILITY

INSTRUCTIONS FOR COMPLETION OF THIS FORM, REFER CODE OF FEDERAL REGULATIONS 40 PART 262.20

223, U.S. Environmental Protection Agency, 401 M Street, SW, Washington, DC 20460; and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, DC 20503.

PCB WASTE - CERTIFICATE OF DISPOSAL

Safety-Kleen (Lone and Grassy Mountain), Inc.
Lone Mountain Facility
Route 2, Box 170
Waynoka, OK 73860
EPA ID # - OKD065438376

As required by 40 CFR 761.218, we are providing this Certificate of Disposal to WILLIAMS GAS PIPELINE -BUFFALO, EPA ID # OK0000963348 to confirm that

LINE	PROFILE No.	WASTE NAME	WEIGHT Kg	TYPE	CNTNRS	DISPOSED
1/A	LM99-0131-06	3006068 PCB SOIL & DEBRIS	17705.22	BULK	1	08/21/02

shipped on manifest number OK0000963348-BF037 was/were disposed in a RCRA hazardous waste landfill.

Under civil and criminal penalties of law for the making or submission of false or fraudulant statements or representations (18 U.S.C. 1001 and 15 U.S.C. 2615), I certify that the information contained in or accompanying this document is true, accurate, and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy, I certify as the company official having supervisory responsibility for the person who, acting under my direct instructions, made the verification that this information is true, accurate, and complete.

Doug McLain

Doug McLain, Facility Manager

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039 Expires 9-30-99

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: OK0000963348
Manifest Document No.: BF 038
2. Page 1 of 1
Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
WILLIAMS GAS PIPELINE ---BUFFALO, OK
13430 WEST 98TH ST BLDG 5, SHAWNEE MISSION, KS 66215

4. Generator's Phone (913) 310-7625

A. State Manifest Document Number
B. State Generator's ID

5. Transporter 1 Company Name: NP ENVIRONMENTAL
6. US EPA ID Number: CAT000624247
C. State Transporter's ID
D. Transporter's Phone: (888) 637-8009

7. Transporter 2 Company Name
8. US EPA ID Number
E. State Transporter's ID
F. Transporter's Phone

9. Designated Facility Name and Site Address
SAFETY-KLEEN(LONE MOUNTAIN)INC
5E & 1N OF JCT 412 & 281
WAYNOKA, OK 73860-9622
10. US EPA ID Number: OKD065438376
G. State Facility's ID
H. Facility's Phone: (580) 697-3500

11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)	HM		12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a.	RQ	POLYCHLORINATED BIPHENYLS, 9, NA2315, III, RQ(PCB'S)	001	DT	EST. 18000	K	NONE
b.							
c.							
d.							

J. Additional Descriptions for Materials Listed Above
Additional EPA Waste Codes a. b. c. d.

K. Handling Codes for Wastes Listed Above
a. H132
b.
c.
d.
SW 39220

15. Special Handling Instructions and Additional Information
Approval Numbers a. LM99-0131-06 b. c. d.
Emergency Contact: 913-310-7625
DATE OF REMOVAL FROM SERVICE 08/21/02

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.

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Printed/Typed Name: Danny C Larkey
Signature: Danny L Larkey
Date: Month 08 Day 21 Year 02

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Lonnie Blar
Signature: Lonnie Blar
Date: Month 08 Day 21 Year 02

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name
Signature
Date: Month Day Year

19. Discrepancy Indication Space
02-3908

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.
Printed/Typed Name: BER DEANE PECK
Signature: Ber Deane Peck
Month 08 Day 21 Year 02

GENERATOR / TRANSPORTER / FACILITY

EPA Form 8700-22 (Rev. 9-88) previous editions obsolete

SAFETY-KLEEN CORP.

90290 (Rev 11/98) 6

INSTRUCTIONS FOR COMPLETION OF THIS FORM, REFER CODE OF FEDERAL REGULATIONS 40 PART 262.20

223, U.S. Environmental Protection Agency, 401 M Street, SW, Washington, DC 20460; and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, DC 20503.

ORIGINAL - RETURN TO GENERATOR

PCB WASTE - CERTIFICATE OF DISPOSAL

Safety-Kleen (Lone and Grassy Mountain), Inc.
Lone Mountain Facility
Route 2, Box 170
Waynoka, OK 73860
EPA ID # - OKD065438376

As required by 40 CFR 761.218, we are providing this Certificate of Disposal to WILLIAMS GAS PIPELINE -BUFFALO, EPA ID # OK0000963348 to confirm that

LINE	PROFILE No.	WASTE NAME	WEIGHT Kg	TYPE	CNTNRS	DISPOSED
1/A	LM99-0131-06	3006068 PCB SOIL & DEBRIS	17786.85	BULK	1	08/21/02

shipped on manifest number OK0000963348-BF038 was/were disposed in a RCRA hazardous waste landfill.

Under civil and criminal penalties of law for the making or submission of false or fraudulant statements or representations (18 U.S.C. 1001 and 15 U.S.C. 2615), I certify that the information contained in or accompanying this document is true, accurate, and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy, I certify as the company official having supervisory responsibility for the person who, acting under my direct instructions, made the verification that this information is true, accurate, and complete.

Doug McLain

Doug McLain, Facility Manager

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039 Expires 9-30-99

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. OK0000963348

Manifest Document No. BF 059

2. Page 1 of

Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
WILLIAMS GAS PIPELINE ---BUFFALO, OK
13430 WEST 98TH ST BLDG 5, SHAWNEE MISSION, KS 66215

4. Generator's Phone (913) 310-7625

A. State Manifest Document Number

B. State Generator's ID

5. Transporter 1 Company Name: NY ENVIRONMENTAL

6. US EPA ID Number: CAT000624247

C. State Transporter's ID

D. Transporter's Phone: (888) 637-8885

7. Transporter 2 Company Name

8. US EPA ID Number

E. State Transporter's ID

F. Transporter's Phone

9. Designated Facility Name and Site Address
SAFETY-KLEEN(LONE MOUNTAIN)INC
5E & 1N OF JCT 412 & 281
WAYNOKA, OK 73860-9622

10. US EPA ID Number: OKD065438376

G. State Facility's ID

H. Facility's Phone: (580) 697-3500

	11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)	HM	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a.	POLYCHLORINATED BIPHENYLS, 9, NA2315, III, RQ(PCB'S)	X	001	DT	EST. 18000	K	NONE
b.							
c.							
d.							

J. Additional Descriptions for Materials Listed Above
Additional EPA Waste Codes a. b. c. d.

K. Handling Codes for Wastes Listed Above
a. H132
b.
c.
d. SW 385 20

15. Special Handling Instructions and Additional Information
Approval Numbers a. LK99-0131-06 b. c. d.
Emergency Contact: 913-310-7625
DATE OF REMOVAL FROM SERVICE 08/21/02
SWO# 50196

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.

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Printed/Typed Name: Danny L Larkey — Signature: Danny L Larkey — Date: Month 08 Day 21 Year 02

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Tim Collier — Signature: Tim Collier — Date: Month 08 Day 21 Year 02

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name — Signature — Date: Month Day Year

FACILITY

19. Discrepancy Indication Space
02-3909

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name: BERDEANE PECK — Signature: Ber Deane Peck — Month 08 Day 21 Year 02

EPA Form 8700-22 (Rev. 9-88) previous editions obsolete

SAFETY-KLEEN CORP.

90290 (Rev 11/98) 6

ORIGINAL - RETURN TO GENERATOR

GENERATOR

INSTRUCTIONS FOR COMPLETION OF THIS FORM, REFER CODE OF FEDERAL REGULATIONS, 40 PART 262.20

223, U.S. Environmental Protection Agency, 401 M Street, SW, Washington, DC 20460; and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, DC 20503.

PCB WASTE - CERTIFICATE OF DISPOSAL

Safety-Kleen (Lone and Grassy Mountain), Inc.
Lone Mountain Facility
Route 2, Box 170
Waynoka, OK 73860
EPA ID # - OKD065438376

As required by 40 CFR 761.218, we are providing this Certificate of Disposal to WILLIAMS GAS PIPELINE -BUFFALO, EPA ID # OK0000963348 to confirm that

LINE	PROFILE No.	WASTE NAME	WEIGHT Kg	TYPE	CNTNRS	DISPOSED
1/A	LM99-0131-06	3006068 PCB SOIL & DEBRIS	17469.39	BULK	1	08/21/02

shipped on manifest number OK0000963348-BF039 was/were disposed in a RCRA hazardous waste landfill.

Under civil and criminal penalties of law for the making or submission of false or fraudulant statements or representations (18 U.S.C. 1001 and 15 U.S.C. 2615), I certify that the information contained in or accompanying this document is true, accurate, and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy, I certify as the company official having supervisory responsibility for the person who, acting under my direct instructions, made the verification that this information is true, accurate, and complete.

Doug McLain

Doug McLain, Facility Manager

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) SWD 50206 Trlr 920 Form Approved. OMB No. 2050-0039 Expires 9-30-99

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: OK0000963348
Manifest Document No.: BF 040
2. Page 1 of 1
Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
WILLIAMS GAS PIPELINE ---BUFFALO, OK
13430 WEST 98TH ST BLDG 5, SHAWNEE MISSION, KS 66215
4. Generator's Phone (913) 310-7625

A. State Manifest Document Number
B. State Generator's ID

5. Transporter 1 Company Name: MP ENVIRONMENTAL
6. US EPA ID Number: CAT000624247
C. State Transporter's ID
D. Transporter's Phone: (888) 637-8009

7. Transporter 2 Company Name
8. US EPA ID Number
E. State Transporter's ID
F. Transporter's Phone

9. Designated Facility Name and Site Address
SAFETY-KLEEN(LONE MOUNTAIN)INC
5E & 1N OF JCT 412 & 281
WAYNOKA, OK 73860-9622
10. US EPA ID Number: OKD065438376
G. State Facility's ID
H. Facility's Phone: (580) 697-3500

GENERATOR

11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)	HM		12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a.	RQ	POLYCHLORINATED BIPHENYLS, 9, NA2315, III, RQ(PCB'S)	001	DT	EST. 18000	K	NONE
b.							
c.							
d.							

J. Additional Descriptions for Materials Listed Above
Additional EPA Waste Codes a. b. c. d.

K. Handling Codes for Wastes Listed Above
a. H132 b. c. d.
SW 38920

15. Special Handling Instructions and Additional Information
Approval Numbers a. LM99-0131-06 b. c. d.
Emergency Contact: 913-310-7625
DATE OF REMOVAL FROM SERVICE 08/21/02

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.

If I am a 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 small quantity 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: Danny L Larkey
Signature: Danny L Larkey
Date: Month 08 Day 21 Year 02

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Kevin Pollock
Signature: Kevin Pollock
Date: Month 08 Day 21 Year 02

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name
Signature
Date: Month Day Year

FACILITY

19. Discrepancy Indication Space
02-3910

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.
Printed/Typed Name: BER DEANE PECK
Signature: Ber Deane Peck
Month 08 Day 21 Year 02

EPA Form 8700-22 (Rev. 9-88) previous editions obsolete

SAFETY-KLEEN CORP.

90290 (Rev 11/98) 6

INSTRUCTIONS FOR COMPLETION OF THIS FORM REFER CODE OF FEDERAL REGULATIONS 40 PART 263

Reviewing instructions, gathering data, and completing and reviewing the form. Send comments regarding the burden estimate, including suggestions for reducing this burden, to: Chief, Information Policy Branch, PM-223, U.S. Environmental Protection Agency, 401 M Street, SW, Washington, DC 20460; and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, DC 20503.

ORIGINAL - RETURN TO GENERATOR

PCB WASTE - CERTIFICATE OF DISPOSAL

Safety-Kleen (Lone and Grassy Mountain), Inc.
Lone Mountain Facility
Route 2, Box 170
Waynoka, OK 73860
EPA ID # - OKD065438376

As required by 40 CFR 761.218, we are providing this Certificate of Disposal to WILLIAMS GAS PIPELINE -BUFFALO, EPA ID # OK0000963348 to confirm that

LINE	PROFILE No.	WASTE NAME	WEIGHT Kg	TYPE	CNTNRS	DISPOSED
1/A	LM99-0131-06	3006068 PCB SOIL & DEBRIS	17650.79	BULK	1	08/21/02

shipped on manifest number OK0000963348-BF040 was/were disposed in a RCRA hazardous waste landfill.

Under civil and criminal penalties of law for the making or submission of false or fraudulant statements or representations (18 U.S.C. 1001 and 15 U.S.C. 2615), I certify that the information contained in or accompanying this document is true, accurate, and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy, I certify as the company official having supervisory responsibility for the person who, acting under my direct instructions, made the verification that this information is true, accurate, and complete.

Doug McLain

Doug McLain, Facility Manager

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039 Expires 9-30-99

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. OK0000963348 Manifest Document No. BF 041

2. Page 1 of

Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
WILLIAMS GAS PIPELINE ---BUFFALO, OK
13430 WEST 98TH ST BLDG 5, SHAWNEE MISSION, KS 66215

4. Generator's Phone (913) 310-7625

A. State Manifest Document Number

B. State Generator's ID

5. Transporter 1 Company Name: NF ENVIRONMENTAL

6. US EPA ID Number: CAT000624247

C. State Transporter's ID

D. Transporter's Phone: (888) 637-8009

7. Transporter 2 Company Name

8. US EPA ID Number

E. State Transporter's ID

F. Transporter's Phone

9. Designated Facility Name and Site Address
SAFETY-KLEEN(LONE MOUNTAIN)INC
5E & 1N OF JCT 412 & 281
WAYNOKA, OK 73860-9622

10. US EPA ID Number: OKD065438376

G. State Facility's ID

H. Facility's Phone: (580) 697-3500

	11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)	HM	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a.	POLYCHLORINATED BIPHENYLS, 9, NA2315, III, RQ(PCB'S)	X	001	DT	EST. 18000	K	NONE
b.							
c.							
d.							

J. Additional Descriptions for Materials Listed Above
Additional EPA Waste Codes a. b. c. d.

K. Handling Codes for Wastes Listed Above
a. R132 b. c. d. SW 38040

15. Special Handling Instructions and Additional Information
Approval Numbers a. LN99-0131-06 b. c. d.
Emergency Contact: 913-310-7625
DATE OF REMOVAL FROM SERVICE 08/21/02

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.

If I am a 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 small quantity 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: Danny L Larkey — Signature: Danny L Larkey — Date: Month 08 Day 21 Year 02

TRANSPORTER — 17. Transporter 1 Acknowledgement of Receipt of Materials — Printed/Typed Name: Steve Etherton — Signature: [signature] — Date: Month 08 Day 21 Year 02

18. Transporter 2 Acknowledgement of Receipt of Materials — Printed/Typed Name — Signature — Date: Month Day Year

FACILITY — 19. Discrepancy Indication Space: 02-3911

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.

Printed/Typed Name: BERDEANE PECK — Signature: Berdeane Peck — Date: Month 08 Day 21 Year 02

EPA Form 8700-22 (Rev. 9-88) previous editions obsolete

SAFETY-KLEEN CORP.

90290 (Rev 11/98) 6

ORIGINAL - RETURN TO GENERATOR

reviewing instructions, gathering data, and completing and reviewing the form. Send comments regarding the burden estimate, including suggestions for reducing this burden, to: Chief, Information Policy Branch, PM-223, U.S. Environmental Protection Agency, 401 M Street, SW, Washington, DC 20460; and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, DC 20503.

PCB WASTE - CERTIFICATE OF DISPOSAL

Safety-Kleen (Lone and Grassy Mountain), Inc.
Lone Mountain Facility
Route 2, Box 170
Waynoka, OK 73860
EPA ID # - OKD065438376

As required by 40 CFR 761.218, we are providing this Certificate of Disposal to WILLIAMS GAS PIPELINE -BUFFALO, EPA ID # OK0000963348 to confirm that

LINE	PROFILE No.	WASTE NAME	WEIGHT Kg	TYPE	CNTNRS	DISPOSED
1/A	LM99-0131-06	3006068 PCB SOIL & DEBRIS	17251.70	BULK	1	08/21/02

shipped on manifest number OK0000963348-BF041 was/were disposed in a RCRA hazardous waste landfill.

Under civil and criminal penalties of law for the making or submission of false or fraudulant statements or representations (18 U.S.C. 1001 and 15 U.S.C. 2615), I certify that the information contained in or accompanying this document is true, accurate, and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy, I certify as the company official having supervisory responsibility for the person who, acting under my direct instructions, made the verification that this information is true, accurate, and complete.

Doug McLain

Doug McLain, Facility Manager

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039 Expires 9-30-99

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: OK0000963348
Manifest Document No.: BF 042

2. Page 1 of 1

Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
WILLIAMS GAS PIPELINE ---BUFFALO, OK
13630 WEST 98TH ST BLDG 5, SHAWNEE MISSION, KS 66215

4. Generator's Phone (913) 310-7625

A. State Manifest Document Number

B. State Generator's ID

5. Transporter 1 Company Name: NP ENVIRONMENTAL

6. US EPA ID Number: CAT000624247

C. State Transporter's ID

D. Transporter's Phone: (888) 637-8009

7. Transporter 2 Company Name

8. US EPA ID Number

E. State Transporter's ID

F. Transporter's Phone

9. Designated Facility Name and Site Address
SAFETY-KLEEN(LONE MOUNTAIN)INC
5E & 1N OF JCT 412 & 281
WAYNOKA, OK 73860-9622

10. US EPA ID Number: OKD065438376

G. State Facility's ID

H. Facility's Phone: (580) 697-3500

	11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a.	HM RQ POLYCHLORINATED BIPHENYLS, 9, NA2315, III, RQ(PCB'S)	001	DT	EST. 18000	K	NONE
b.						
c.						
d.						

J. Additional Descriptions for Materials Listed Above
Additional EPA Waste Codes a. b. c. d.
SW 50216

K. Handling Codes for Wastes Listed Above
a. H132 b. c. d.
SW 40820

15. Special Handling Instructions and Additional Information
Approval Numbers a. LM99-0131-06 b. c. d.
Emergency Contact: 913-310-7625

DATE OF REMOVAL FROM SERVICE 08/21/02

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.

If I am a 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 small quantity 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: Danny L Larkey
Signature: Danny L Larkey
Date: Month 08 Day 21 Year 02

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Allen D Meralde
Signature: Allen D Meralde
Date: Month 08 Day 21 Year 02

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name
Signature
Date: Month Day Year

19. Discrepancy Indication Space
02-3912

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.
Printed/Typed Name: BER DEANE PECK
Signature: Ber Deane Peck
Month 08 Day 21 Year 02

EPA Form 8700-22 (Rev. 9-88) previous editions obsolete

SAFETY-KLEEN CORP.

90290 (Rev 11/98) 6

ORIGINAL - RETURN TO GENERATOR

reviewing instructions, gathering data, and completing and reviewing the form. Send comments regarding the burden estimate, including suggestions for reducing this burden, to: Chief, Information Policy Branch, PM-223, U.S. Environmental Protection Agency, 401 M Street, SW, Washington, DC 20460; and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, DC 20503.

INSTRUCTIONS FOR COMPLETION OF THIS FORM. REFER CODE OF FEDERAL REGULATIONS 40, PART 262.20

PCB WASTE - CERTIFICATE OF DISPOSAL

Safety-Kleen (Lone and Grassy Mountain), Inc.
Lone Mountain Facility
Route 2, Box 170
Waynoka, OK 73860
EPA ID # - OKD065438376

As required by 40 CFR 761.218, we are providing this Certificate of Disposal to WILLIAMS GAS PIPELINE -BUFFALO, EPA ID # OK0000963348 to confirm that

LINE	PROFILE No.	WASTE NAME	WEIGHT Kg	TYPE	CNTNRS	DISPOSED
1/A	LM99-0131-06	3006068 PCB SOIL & DEBRIS	18512.47	BULK	1	08/21/02

shipped on manifest number OK0000963348-BF042 was/were disposed in a RCRA hazardous waste landfill.

Under civil and criminal penalties of law for the making or submission of false or fraudulant statements or representations (18 U.S.C. 1001 and 15 U.S.C. 2615), I certify that the information contained in or accompanying this document is true, accurate, and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy, I certify as the company official having supervisory responsibility for the person who, acting under my direct instructions, made the verification that this information is true, accurate, and complete.

Doug McLain

Doug McLain, Facility Manager

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039 Expires 9-30-99

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: OK0000963348
Manifest Document No.: BF 043
2. Page 1 of 1
Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
WILLIAMS GAS PIPELINE ---BUFFALO, OK
13430 WEST 98TH ST BLDG 5, SHAWNEE MISSION, KS 66215
4. Generator's Phone (913) 310-7625

A. State Manifest Document Number
B. State Generator's ID

5. Transporter 1 Company Name: NP ENVIRONMENTAL
6. US EPA ID Number: CAT000624247
C. State Transporter's ID
D. Transporter's Phone: (888) 637-8009

7. Transporter 2 Company Name
8. US EPA ID Number
E. State Transporter's ID
F. Transporter's Phone

9. Designated Facility Name and Site Address
SAFETY-KLEEN(LONE MOUNTAIN)INC
5E & 1N OF JCT 412 & 281
WAYNOKA, OK 73860-9622
10. US EPA ID Number: OKD065438376
G. State Facility's ID
H. Facility's Phone: (580) 697-3500

11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)	HM		12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a.	RQ	POLYCHLORINATED BIPHENYLS, 9, NA2315, III, RQ(PCB'S)	001	DT	EST. 10000	K	NONE
b.							
c.							
d.							

J. Additional Descriptions for Materials Listed Above
Additional EPA Waste Codes a. b. c. d.

K. Handling Codes for Wastes Listed Above
a. H132
b.
c.
d.
SW 34940

15. Special Handling Instructions and Additional Information
Approval Numbers a. LM99-0131-06 b. c. d.
Emergency Contact: 913-310-7625
DATE OF REMOVAL FROM SERVICE 08/21/02

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.

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Printed/Typed Name: Danny L Larkey
Signature: Danny L Larkey
Date: Month 08 Day 21 Year 02

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: STONY AVANTS
Signature: Stony Avants
Date: Month 08 Day 21 Year 02

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name
Signature
Date: Month Day Year

19. Discrepancy Indication Space
Sec. 13 - mfst weight estimated - resolve to Lone Mtn weight 15,845K. 8/21/02 VS
02-3913

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.
Printed/Typed Name: BERDEANE PECK
Signature: Ber Deane Peck
Month 08 Day 21 Year 02

GENERATOR / TRANSPORTER / FACILITY

EPA Form 8700-22 (Rev. 9-88) previous editions obsolete

SAFETY-KLEEN CORP.

90290 (Rev 11/98) 6

ORIGINAL - RETURN TO GENERATOR

INSTRUCTIONS FOR COMPLETION OF THIS FORM REFER CODE OF FEDERAL REGULATIONS 40 PART 262.20

reviewing instructions, gathering data, and completing and reviewing the form. Send comments regarding the burden estimate, including suggestions for reducing this burden, to: Chief, Information Policy Branch, PM-223, U.S. Environmental Protection Agency, 401 M Street, SW, Washington, DC 20460; and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, DC 20503.

PCB WASTE - CERTIFICATE OF DISPOSAL

Safety-Kleen (Lone and Grassy Mountain), Inc.
Lone Mountain Facility
Route 2, Box 170
Waynoka, OK 73860
EPA ID # - OKD065438376

As required by 40 CFR 761.218, we are providing this Certificate of Disposal to WILLIAMS GAS PIPELINE -BUFFALO, EPA ID # OK0000963348 to confirm that

LINE	PROFILE No.	WASTE NAME	WEIGHT Kg	TYPE	CNTNRS	DISPOSED
1/A	LM99-0131-06	3006068 PCB SOIL & DEBRIS	15845.80	BULK	1	08/21/02

shipped on manifest number OK0000963348-BF043 was/were disposed in a RCRA hazardous waste landfill.

Under civil and criminal penalties of law for the making or submission of false or fraudulant statements or representations (18 U.S.C. 1001 and 15 U.S.C. 2615), I certify that the information contained in or accompanying this document is true, accurate, and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy, I certify as the company official having supervisory responsibility for the person who, acting under my direct instructions, made the verification that this information is true, accurate, and complete.

Doug McLain

Doug McLain, Facility Manager

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039 Expires 9-30-99

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. O K 0 0 0 0 9 6 3 3 4 8 — Manifest Document No. BF 044

2. Page 1 of

Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
WILLIAMS GAS PIPELINE ---BUFFALO, OK
13430 WEST 98TH ST BLDG 5, SHAWNEE MISSION, KS 66215

4. Generator's Phone (913) 310-7625

A. State Manifest Document Number

B. State Generator's ID

5. Transporter 1 Company Name
NP ENVIRONMENTAL

6. US EPA ID Number
C A T 0 0 0 6 2 4 2 4 7

C. State Transporter's ID

D. Transporter's Phone (881) 637-[illegible]

7. Transporter 2 Company Name

8. US EPA ID Number

E. State Transporter's ID

F. Transporter's Phone

9. Designated Facility Name and Site Address
SAFETY-KLEEN(LONE MOUNTAIN)INC
5M & 1M OF JCT 412 & 281
WATNOKA, OK 73860-9622

10. US EPA ID Number
O K D 0 6 5 4 3 8 3 7 6

G. State Facility's ID

H. Facility's Phone (580) 697-3500

	11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)	HM	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a.	POLYCHLORINATED BIPHENYLS, 9, NA2315, III, RQ(PCB'S)	RQ	001	DT	EST. 18000	K	NONE
b.							
c.							
d.							

GENERATOR

J. Additional Descriptions for Materials Listed Above
Additional EPA Waste Codes a. b. c. d.

K. Handling Codes for Wastes Listed Above
a. H132
b.
c.
d. SW 43940

15. Special Handling Instructions and Additional Information
Approval Numbers a. LN99-0131-06 b. c. d.
Emergency Contact: 913-310-7625
DATE OF REMOVAL FROM SERVICE 08/21/02

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Printed/Typed Name: Danny L Larkey — Signature: Danny L Larkey — Date: Month 08 Day 21 Year 02

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Erix M Willson — Signature: Erix M Willson — Date: Month 08 Day 21 Year 02

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name — Signature — Date: Month Day Year

FACILITY

19. Discrepancy Indication Space
02-3914

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.
Printed/Typed Name: BEE DEANE PECK — Signature: Bee Deane Peck — Date: Month 08 Day 21 Year 02

EPA Form 8700-22 (Rev. 9-88) previous editions obsolete

SAFETY-KLEEN CORP.

90290 (Rev 11/98) 6

ORIGINAL - RETURN TO GENERATOR

INSTRUCTIONS FOR COMPLETION OF THIS FORM, REFER CODE OF FEDERAL REGULATIONS, 40 PART 262.20

223, U.S. Environmental Protection Agency, 401 M Street, SW, Washington, DC 20460; and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, DC 20503.

PCB WASTE - CERTIFICATE OF DISPOSAL

Safety-Kleen (Lone and Grassy Mountain), Inc.
Lone Mountain Facility
Route 2, Box 170
Waynoka, OK 73860
EPA ID # - OKD065438376

As required by 40 CFR 761.218, we are providing this Certificate of Disposal to WILLIAMS GAS PIPELINE -BUFFALO, EPA ID # OK0000963348 to confirm that

LINE	PROFILE No.	WASTE NAME	WEIGHT Kg	TYPE	CNTNRS	DISPOSED
1/A	LM99-0131-06	3006068 PCB SOIL & DEBRIS	19927.44	BULK	1	08/21/02

shipped on manifest number OK0000963348-BF044 was/were disposed in a RCRA hazardous waste landfill.

Under civil and criminal penalties of law for the making or submission of false or fraudulant statements or representations (18 U.S.C. 1001 and 15 U.S.C. 2615), I certify that the information contained in or accompanying this document is true, accurate, and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy, I certify as the company official having supervisory responsibility for the person who, acting under my direct instructions, made the verification that this information is true, accurate, and complete.

Doug McLain

Doug McLain, Facility Manager

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039 Expires 9-30-99

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. OK0000963348

Manifest Document No. BF 045

2. Page 1 of

Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
WILLIAMS GAS PIPELINE ---BUFFALO, OK
13430 WEST 98TH ST BLDG 5, SHAWNEE MISSION, KS 66215

4. Generator's Phone (913) 310-7625

A. State Manifest Document Number

B. State Generator's ID

5. Transporter 1 Company Name: NF ENVIRONMENTAL

6. US EPA ID Number: CAT000624247

C. State Transporter's ID

D. Transporter's Phone: (888) 637-8881

7. Transporter 2 Company Name

8. US EPA ID Number

E. State Transporter's ID

F. Transporter's Phone

9. Designated Facility Name and Site Address
SAFETY-KLEEN(LONE MOUNTAIN)INC
5E & 1N OF JCT 412 & 281
WAYNOKA, OK 73860-9622

10. US EPA ID Number: OKD065438376

G. State Facility's ID

H. Facility's Phone: (580) 697-3500

	11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)	HM	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a.	POLYCHLORINATED BIPHENYLS, 9, NA2315, III, RQ(PCB'S)	X	001	DT	EST. 18000	K	NONE
b.							
c.							
d.							

J. Additional Descriptions for Materials Listed Above
Additional RCRA Waste Codes a. b. c. d.

K. Handling Codes for Wastes Listed Above
a. H132
b.
c.
d. SW51660

15. Special Handling Instructions and Additional Information
Approval Numbers a. LN99-0131-06 b. c. d.
Emergency Contact: 913-310-7625
DATE OF REMOVAL FROM SERVICE 08/21/02

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.

If I am a 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 small quantity 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: Danny L Larkey — Signature: Danny L Larkey — Date: Month 08 Day 21 Year 02

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: LeRoy Zelenka — Signature: LeRoy Zelenka — Date: Month 08 Day 21 Year 02

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name — Signature — Date: Month Day Year

FACILITY

19. Discrepancy Indication Space
sec. 13-mfst weight estimated - resolve to Lone Mtn weight 23,428K. 9/21/02
02-3915

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.
Printed/Typed Name: BERDEANE PECK — Signature: Berdeane Peck — Date: Month 08 Day 21 Year 02

EPA Form 8700-22 (Rev. 9-88) previous editions obsolete

SAFETY-KLEEN CORP.

90290 (Rev 11/98) 6

ORIGINAL - RETURN TO GENERATOR

GENERATOR

INSTRUCTIONS FOR COMPLETION OF THIS FORM, REFER CODE OF FEDERAL REGULATIONS 40 PART 262.20

223, U.S. Environmental Protection Agency, 401 M Street, SW, Washington, DC 20460; and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, DC 20503.

PCB WASTE - CERTIFICATE OF DISPOSAL

Safety-Kleen (Lone and Grassy Mountain), Inc.
Lone Mountain Facility
Route 2, Box 170
Waynoka, OK 73860
EPA ID # - OKD065438376

As required by 40 CFR 761.218, we are providing this Certificate of Disposal to WILLIAMS GAS PIPELINE -BUFFALO, EPA ID # OK0000963348 to confirm that

LINE	PROFILE No.	WASTE NAME	WEIGHT Kg	TYPE	CNTNRS	DISPOSED
1/A	LM99-0131-06	3006068 PCB SOIL & DEBRIS	23428.57	BULK	1	08/21/02

shipped on manifest number OK0000963348-BF045 was/were disposed in a RCRA hazardous waste landfill.

Under civil and criminal penalties of law for the making or submission of false or fraudulant statements or representations (18 U.S.C. 1001 and 15 U.S.C. 2615), I certify that the information contained in or accompanying this document is true, accurate, and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy, I certify as the company official having supervisory responsibility for the person who, acting under my direct instructions, made the verification that this information is true, accurate, and complete.

Doug McLain

Doug McLain, Facility Manager

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039 Expires 9-30-99

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: O K 0 0 0 0 9 6 3 3 4 8
Manifest Document No.: BF 046
2. Page 1 of
Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
WILLIAMS GAS PIPELINE ---BUFFALO, OK
13430 WEST 98TH ST BLDG 5, SHAWNEE MISSION, KS 66215
4. Generator's Phone (913) 310-7625

A. State Manifest Document Number
B. State Generator's ID

5. Transporter 1 Company Name: HP ENVIRONMENTAL
6. US EPA ID Number: C A T 0 0 0 6 2 4 2 4 7
C. State Transporter's ID
D. Transporter's Phone: (888) 537-8009

7. Transporter 2 Company Name
8. US EPA ID Number
E. State Transporter's ID
F. Transporter's Phone

9. Designated Facility Name and Site Address
SAFETY-KLEEN(LONE MOUNTAIN)INC
5E & 1N OF JCT 412 & 281
WAYNOKA, OK 73860-9622
10. US EPA ID Number: O K D 0 6 5 4 3 8 3 7 6
G. State Facility's ID
H. Facility's Phone: (580) 697-3500

	11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a.	HM RQ POLYCHLORINATED BIPHENYLS, 9, NA2315, III, RQ(PCB'S)	001	DT	EST. 18000	K	NONE
b.						
c.						
d.						

J. Additional Descriptions for Materials Listed Above
Additional RCRA Waste Codes: a. b. c. d.

K. Handling Codes for Wastes Listed Above
a. H132 b. c. d. SW 461360

15. Special Handling Instructions and Additional Information
Approval Numbers: a. LN99-0131-06 b. c. d.
Emergency Contact: 913-310-7625
DATE OF REMOVAL FROM SERVICE 08/21/02

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.

If I am a 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 small quantity 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: Danny L Larkey
Signature: Danny L Larkey
Date: Month 08 Day 21 Year 02

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Rinnie Stanley
Signature: Rinnie Stanley
Date: Month 08 Day 21 Year 02

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name
Signature
Date: Month Day Year

FACILITY

19. Discrepancy Indication Space
Sec. 13 - mfst weight estimated - resolve to Lone Mtn weight 21,024 K. 8/21/02 VS
02-3916

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.
Printed/Typed Name: BERDEANE PECK
Signature: BerDeane Peck
Date: Month 08 Day 21 Year 02

EPA Form 8700-22 (Rev. 9-88) previous editions obsolete

SAFETY-KLEEN CORP.

90290 (Rev 11/98) 6

ORIGINAL - RETURN TO GENERATOR

GENERATOR

INSTRUCTIONS FOR COMPLETION OF THIS FORM, REFER CODE OF FEDERAL REGULATIONS 40 PART 262.20

223, U.S. Environmental Protection Agency, 401 M Street, SW, Washington, DC 20460; and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, DC 20503.

PCB WASTE - CERTIFICATE OF DISPOSAL

Safety-Kleen (Lone and Grassy Mountain), Inc.
Lone Mountain Facility
Route 2, Box 170
Waynoka, OK 73860
EPA ID # - OKD065438376

As required by 40 CFR 761.218, we are providing this Certificate of Disposal to WILLIAMS GAS PIPELINE -BUFFALO, EPA ID # OK0000963348 to confirm that

LINE	PROFILE No.	WASTE NAME	WEIGHT Kg	TYPE	CNTNRS	DISPOSED
1/A	LM99-0131-06	3006068 PCB SOIL & DEBRIS	21024.94	BULK	1	08/21/02

shipped on manifest number OK0000963348-BF046 was/were disposed in a RCRA hazardous waste landfill.

Under civil and criminal penalties of law for the making or submission of false or fraudulant statements or representations (18 U.S.C. 1001 and 15 U.S.C. 2615), I certify that the information contained in or accompanying this document is true, accurate, and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy, I certify as the company official having supervisory responsibility for the person who, acting under my direct instructions, made the verification that this information is true, accurate, and complete.

Doug McLain

Doug McLain, Facility Manager

50214

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039 Expires 9-30-99

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. OK0000963348 Manifest Document No. BF 047
2. Page 1 of 1
Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
WILLIAMS GAS PIPELINE ---BUFFALO, OK
13430 WEST 98TH ST BLDG 5, SHAWNEE MISSION, KS 66215
4. Generator's Phone (913) 310-7625

A. State Manifest Document Number
B. State Generator's ID

5. Transporter 1 Company Name: NP ENVIRONMENTAL
6. US EPA ID Number: CAT000624247
C. State Transporter's ID
D. Transporter's Phone (888) 837-8009

7. Transporter 2 Company Name
8. US EPA ID Number
E. State Transporter's ID
F. Transporter's Phone

9. Designated Facility Name and Site Address
SAFETY-KLEEN(LONE MOUNTAIN)INC
5E & 1N OF JCT 412 & 281
WAYNOKA, OK 73860-9622
10. US EPA ID Number: OKD065438376
G. State Facility's ID
H. Facility's Phone (580) 697-3500

	11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a.	RQ POLYCHLORINATED BIPHENYLS, 9, NA2315, III, RQ(PCB'S)	001	DT	EST. 18000	K	NONE
b.						
c.						
d.						

J. Additional Descriptions for Materials Listed Above
Additional RCRA Waste Codes a. b. c. d.

K. Handling Codes for Wastes Listed Above
a. H132
b.
c.
d.
SW38840

15. Special Handling Instructions and Additional Information
Approval Numbers a. LN99-0131-06 b. c. d.
Emergency Contact: 913-310-7625
DATE OF REMOVAL FROM SERVICE 08/21/02

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.

If I am a 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 small quantity 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: Danny L Larkey — Signature: Danny L Larkey — Date: Month 08 Day 21 Year 02

17. Transporter 1 Acknowledgement of Receipt of Materials
TRANSPORTER — Printed/Typed Name: Tom Lemke — Signature: Tom Lemke — Date: Month 08 Day 21 Year 02

18. Transporter 2 Acknowledgement of Receipt of Materials
TRANSPORTER — Printed/Typed Name — Signature — Date: Month Day Year

19. Discrepancy Indication Space
02-3918

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.
FACILITY — Printed/Typed Name: BERDEANE PECK — Signature: BerDeane Peck — Date: Month 08 Day 21 Year 02

EPA Form 8700-22 (Rev. 9-88) previous editions obsolete

SAFETY-KLEEN CORP.

90290 (Rev 11/98) 6

ORIGINAL - RETURN TO GENERATOR

INSTRUCTIONS FOR COMPLETION OF THIS FORM, REFER CODE OF FEDERAL REGULATIONS 40 PART 262.20

223, U.S. Environmental Protection Agency, 401 M Street, SW, Washington, DC 20460; and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, DC 20503.

PCB WASTE - CERTIFICATE OF DISPOSAL

Safety-Kleen (Lone and Grassy Mountain), Inc.
Lone Mountain Facility
Route 2, Box 170
Waynoka, OK 73860
EPA ID # - OKD065438376

As required by 40 CFR 761.218, we are providing this Certificate of Disposal to WILLIAMS GAS PIPELINE -BUFFALO, EPA ID # OK0000963348 to confirm that

LINE	PROFILE No.	WASTE NAME	WEIGHT Kg	TYPE	CNTNRS	DISPOSED
1/A	LM99-0131-06	3006068 PCB SOIL & DEBRIS	17614.51	BULK	1	08/21/02

shipped on manifest number OK0000963348-BF047 was/were disposed in a RCRA hazardous waste landfill.

Under civil and criminal penalties of law for the making or submission of false or fraudulant statements or representations (18 U.S.C. 1001 and 15 U.S.C. 2615), I certify that the information contained in or accompanying this document is true, accurate, and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy, I certify as the company official having supervisory responsibility for the person who, acting under my direct instructions, made the verification that this information is true, accurate, and complete.

Doug McLain

Doug McLain, Facility Manager

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039 Expires 9-30-99

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. OK0000963348

Manifest Document No. BF 048

2. Page 1 of 1

Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
WILLIAMS GAS PIPELINE ---BUFFALO, OK
13430 WEST 98TH ST BLDG 5, SHAWNEE MISSION, KS 66215

4. Generator's Phone (913) 310-7625

A. State Manifest Document Number

B. State Generator's ID

5. Transporter 1 Company Name: KP ENVIRONMENTAL

6. US EPA ID Number: CAT000624247

C. State Transporter's ID

D. Transporter's Phone (888) 637-8889

7. Transporter 2 Company Name

8. US EPA ID Number

E. State Transporter's ID

F. Transporter's Phone

9. Designated Facility Name and Site Address
SAFETY-KLEEN(LONE MOUNTAIN)INC
5E & 1N OF JCT 412 & 281
WAYNOKA, OK 73860-9622

10. US EPA ID Number: OKD065438376

G. State Facility's ID

H. Facility's Phone (580) 697-3500

11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)	HM	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. POLYCHLORINATED BIPHENYLS, 9, NA2315, III, RQ(PCB'S)	RQ	001	DT	EST. 18000	K	NONE
b.						
c.						
d.						

J. Additional Descriptions for Materials Listed Above
Additional EPA Waste Codes a. b. c. d.

K. Handling Codes for Wastes Listed Above
a. H132 b. c. d. SW 37440

15. Special Handling Instructions and Additional Information
Approval Numbers a. LN99-0131-06 b. c. d.
Emergency Contact: 913-310-7625
DATE OF REMOVAL FROM SERVICE 08/21/02

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.

If I am a 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 small quantity 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: Danny L Lerkey — Signature: Danny L Lerkey — Date: Month 08 Day 21 Year 02

TRANSPORTER — 17. Transporter 1 Acknowledgement of Receipt of Materials — Printed/Typed Name: Leon McDaniels — Signature: Leon McDaniel — Date: Month 08 Day 21 Year 02

18. Transporter 2 Acknowledgement of Receipt of Materials — Printed/Typed Name — Signature — Date: Month Day Year

FACILITY — 19. Discrepancy Indication Space: 02-3919

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.
Printed/Typed Name: BERDEANE PECK — Signature: Berdeane Peck — Date: Month 08 Day 21 Year 02

EPA Form 8700-22 (Rev. 9-88) previous editions obsolete

SAFETY-KLEEN CORP.

90290 (Rev 11/98) 6

ORIGINAL - RETURN TO GENERATOR

INSTRUCTIONS FOR COMPLETION OF THIS FORM, REFER CODE OF FEDERAL REGULATIONS 40 PART 262.20

223, U.S. Environmental Protection Agency, 401 M Street, SW, Washington, DC 20460; and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, DC 20503.

PCB WASTE - CERTIFICATE OF DISPOSAL

Safety-Kleen (Lone and Grassy Mountain), Inc.
Lone Mountain Facility
Route 2, Box 170
Waynoka, OK 73860
EPA ID # - OKD065438376

As required by 40 CFR 761.218, we are providing this Certificate of Disposal to WILLIAMS GAS PIPELINE -BUFFALO, EPA ID # OK0000963348 to confirm that

LINE	PROFILE No.	WASTE NAME	WEIGHT Kg	TYPE	CNTNRS	DISPOSED
1/A	LM99-0131-06	3006068 PCB SOIL & DEBRIS	16979.59	BULK	1	08/21/02

shipped on manifest number OK0000963348-BF048 was/were disposed in a RCRA hazardous waste landfill.

Under civil and criminal penalties of law for the making or submission of false or fraudulant statements or representations (18 U.S.C. 1001 and 15 U.S.C. 2615), I certify that the information contained in or accompanying this document is true, accurate, and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy, I certify as the company official having supervisory responsibility for the person who, acting under my direct instructions, made the verification that this information is true, accurate, and complete.

Doug McLain

Doug McLain, Facility Manager

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039 Expires 9-30-99

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. OK0000963348 Manifest Document No. BF 049

2. Page 1 of

Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
WILLIAMS GAS PIPELINE ---BUFFALO, OK
13430 WEST 98TH ST BLDG 5, SHANNEE MISSION, KS 66215

4. Generator's Phone (913) 310-7625

A. State Manifest Document Number

B. State Generator's ID

5. Transporter 1 Company Name
NF ENVIRONMENTAL

6. US EPA ID Number
CAT000624247

C. State Transporter's ID

D. Transporter's Phone (888) 637-8889

7. Transporter 2 Company Name

8. US EPA ID Number

E. State Transporter's ID

F. Transporter's Phone

9. Designated Facility Name and Site Address
SAFETY-KLEEN(LONE MOUNTAIN)INC
SE & IN OF JCT 412 & 281
WATONGA, OK 73860-9622

10. US EPA ID Number
OKD065438376

G. State Facility's ID

H. Facility's Phone (580) 697-3500

	11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a.	HM RQ POLYCHLORINATED BIPHENYLS, 9, NA2315, III, RQ(PCB'S)	001	DT	EST. 18000	K	NONE
b.						
c.						
d.						

J. Additional Descriptions for Materials Listed Above
Additional RCRA Waste Codes a. b. c. d.

K. Handling Codes for Wastes Listed Above
a. H132
b.
c.
d. SW34540

15. Special Handling Instructions and Additional Information
Approval Numbers a. LK99-0131-06 b. c. d.
Emergency Contact: 913-310-7625
DATE OF REMOVAL FROM SERVICE 08/21/02
SW0450286 TALR# 916

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.

If I am a 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 small quantity 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: Danny L Larkey Signature: Danny L Larkey Date: Month 08 Day 21 Year 02

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Jeffery L. Couch Signature: Jeffery L Date: Month 08 Day 21 Year 02

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name: Signature: Date: Month Day Year

19. Discrepancy Indication Space
Sec. 13 - per Mark Sullivan - Mfst. weight is estimated.
Resolve to Lone Mountain Weight 15664 . 8/21/02 VS
02-3930

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.
Printed/Typed Name: BERDEANE PECK Signature: Ber Deane Peck Date: Month 08 Day 22 Year 02

EPA Form 8700-22 (Rev. 9-88) previous editions obsolete

SAFETY-KLEEN CORP.

90290 (Rev 11/98) 6

ORIGINAL - RETURN TO GENERATOR

INSTRUCTIONS FOR COMPLETION OF THIS FORM, REFER CODE OF FEDERAL REGULATIONS 40 PART 262.20

223, U.S. Environmental Protection Agency, 401 M Street, SW, Washington, DC 20460; and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, DC 20503.

PCB WASTE - CERTIFICATE OF DISPOSAL

Safety-Kleen (Lone and Grassy Mountain), Inc.
Lone Mountain Facility
Route 2, Box 170
Waynoka, OK 73860
EPA ID # - OKD065438376

As required by 40 CFR 761.218, we are providing this Certificate of Disposal to WILLIAMS GAS PIPELINE -BUFFALO, EPA ID # OK0000963348 to confirm that

LINE	PROFILE No.	WASTE NAME	WEIGHT Kg	TYPE	CNTNRS	DISPOSED
1/A	LM99-0131-06	3006068 PCB SOIL & DEBRIS	15664.40	BULK	1	08/22/02

shipped on manifest number OK0000963348-BF049 was/were disposed in a RCRA hazardous waste landfill.

Under civil and criminal penalties of law for the making or submission of false or fraudulant statements or representations (18 U.S.C. 1001 and 15 U.S.C. 2615), I certify that the information contained in or accompanying this document is true, accurate, and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy, I certify as the company official having supervisory responsibility for the person who, acting under my direct instructions, made the verification that this information is true, accurate, and complete.

Doug McLain

Doug McLain, Facility Manager

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039 Expires 9-30-99

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. OK0000963348 Manifest Document No. BF 050

2. Page 1 of 1

Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
WILLIAMS GAS PIPELINE ---BUFFALO, OK
13430 WEST 98TH ST BLDG 5, SHAWNEE MISSION, KS 66215

4. Generator's Phone (913) 318-7625

A. State Manifest Document Number

B. State Generator's ID

5. Transporter 1 Company Name: NP ENVIRONMENTAL

6. US EPA ID Number: CAT000624247

C. State Transporter's ID

D. Transporter's Phone: (888) 637-8889

7. Transporter 2 Company Name

8. US EPA ID Number

E. State Transporter's ID

F. Transporter's Phone

9. Designated Facility Name and Site Address
SAFETY-KLEEN(LONE MOUNTAIN)INC
5E & 1N OF JCT 412 & 281
WAYNOKA, OK 73860-9622

10. US EPA ID Number: OKD065438376

G. State Facility's ID

H. Facility's Phone: (580) 697-3500

	11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)	HM	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a.	POLYCHLORINATED BIPHENYLS, 9, NA2315, III, RQ(PCB'S)	RQ	001	DT	EST. 18000	K	NONE
b.							
c.							
d.							

J. Additional Descriptions for Materials Listed Above
Additional RCRA Waste Codes: a. b. c. d.

K. Handling Codes for Wastes Listed Above
a. H132
b.
c.
d. SW 38980

15. Special Handling Instructions and Additional Information
Approval Numbers: a. LN99-0131-06 b. c. d.
Emergency Contact: 913-318-7625
DATE OF REMOVAL FROM SERVICE 08/21/02
SWO # 50284

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.

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Printed/Typed Name: Danny L Larkey | Signature: Danny L Larkey | Date: Month 08 Day 21 Year 02

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Lonnie Blad | Signature: Lonnie Blad | Date: Month 08 Day 21 Year 02

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name | Signature | Date: Month Day Year

19. Discrepancy Indication Space
02-3929

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.
Printed/Typed Name: BERDEANE PECK | Signature: Berdeane Peck | Date: Month 08 Day 22 Year 02

GENERATOR / TRANSPORTER / FACILITY

EPA Form 8700-22 (Rev. 9-88) previous editions obsolete

SAFETY-KLEEN CORP.

90290 (Rev 11/98) 6

ORIGINAL - RETURN TO GENERATOR

INSTRUCTIONS FOR COMPLETION OF THIS FORM, REFER CODE OF FEDERAL REGULATIONS, 40, PART 262 20

223, U.S. Environmental Protection Agency, 401 M Street, SW, Washington, DC 20460; and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, DC 20503.

PCB WASTE - CERTIFICATE OF DISPOSAL

Safety-Kleen (Lone and Grassy Mountain), Inc.
Lone Mountain Facility
Route 2, Box 170
Waynoka, OK 73860
EPA ID # - OKD065438376

As required by 40 CFR 761.218, we are providing this Certificate of Disposal to WILLIAMS GAS PIPELINE -BUFFALO, EPA ID # OK0000963348 to confirm that

LINE	PROFILE No.	WASTE NAME	WEIGHT Kg	TYPE	CNTNRS	DISPOSED
1/A	LM99-0131-06	3006068 PCB SOIL & DEBRIS	17678.00	BULK	1	08/22/02

shipped on manifest number OK0000963348-BF050 was/were disposed in a RCRA hazardous waste landfill.

Under civil and criminal penalties of law for the making or submission of false or fraudulant statements or representations (18 U.S.C. 1001 and 15 U.S.C. 2615), I certify that the information contained in or accompanying this document is true, accurate, and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy, I certify as the company official having supervisory responsibility for the person who, acting under my direct instructions, made the verification that this information is true, accurate, and complete.

Doug McLain

Doug McLain, Facility Manager

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039 Expires 9-30-99

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. 0 K 0 0 0 0 9 6 3 3 4 8

Manifest Document No. BF 051

2. Page 1 of 1

Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
WILLIAMS GAS PIPELINE ---BUFFALO, OK
13430 WEST 98TH ST BLDG 5, SHAWNEE MISSION, KS 66215

4. Generator's Phone (913) 310-7625

A. State Manifest Document Number

B. State Generator's ID

5. Transporter 1 Company Name
NF ENVIRONMENTAL

6. US EPA ID Number
C A T 0 0 0 6 2 4 2 4 7

C. State Transporter's ID

D. Transporter's Phone (800) 637-8009

7. Transporter 2 Company Name

8. US EPA ID Number

E. State Transporter's ID

F. Transporter's Phone

9. Designated Facility Name and Site Address
SAFETY-KLEEN(LONE MOUNTAIN)INC
5E & 1N OF JCT 412 & 281
WAYNOKA, OK 73860-9622

10. US EPA ID Number
O K D 0 6 5 4 3 8 3 7 6

G. State Facility's ID

H. Facility's Phone (580) 697-3500

	11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)	HM	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a.	POLYCHLORINATED BIPHENYLS, 9, NA2315, III, RQ(PCB'S)	RQ	001	DT	EST. 18000	K	NONE
b.							
c.							
d.							

GENERATOR

J. Additional Descriptions for Materials Listed Above
Additional RCRA Waste Codes a. b. c. d.

K. Handling Codes for Wastes Listed Above
a. H132
b.
c.
d.
SW 33440

15. Special Handling Instructions and Additional Information
Approval Numbers a. LN99-0131-06 b. c. d.
Emergency Contact: 913-310-7625
DATE OF REMOVAL FROM SERVICE 08/21/02
SW#50288 ED937

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.

If I am a 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 small quantity 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: Danny C Larkey — Signature: Danny C Larkey — Date: Month 08 Day 21 Year 02

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Tim Collier — Signature: [signature] — Date: Month 08 Day 21 Year 02

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name — Signature — Date: Month Day Year

FACILITY

19. Discrepancy Indication Space
Sec. 13 - per Mark Sullivan - Mfst. weight is estimated.
Resolve to Lone Mountain Weight 15165. 8/21/02 VS
02-3931

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.
Printed/Typed Name: Wesley Hope — Signature: Wesley Hope — Date: Month 08 Day 22 Year 02

EPA Form 8700-22 (Rev. 9-88) previous editions obsolete

SAFETY-KLEEN CORP.

90290 (Rev 11/98) 6

ORIGINAL - RETURN TO GENERATOR

INSTRUCTIONS FOR COMPLETION OF THIS FORM, REFER CODE OF FEDERAL REGULATIONS 40 PART 262.20

223, U.S. Environmental Protection Agency, 401 M Street, SW, Washington, DC 20460; and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, DC 20503.

PCB WASTE - CERTIFICATE OF DISPOSAL

Safety-Kleen (Lone and Grassy Mountain), Inc.
Lone Mountain Facility
Route 2, Box 170
Waynoka, OK 73860
EPA ID # - OKD065438376

As required by 40 CFR 761.218, we are providing this Certificate of Disposal to WILLIAMS GAS PIPELINE -BUFFALO, EPA ID # OK0000963348 to confirm that

LINE	PROFILE No.	WASTE NAME	WEIGHT Kg	TYPE	CNTNRS	DISPOSED
1/A	LM99-0131-06	3006068 PCB SOIL & DEBRIS	15165.53	BULK	1	08/22/02

shipped on manifest number OK0000963348-BF051 was/were disposed in a RCRA hazardous waste landfill.

Under civil and criminal penalties of law for the making or submission of false or fraudulant statements or representations (18 U.S.C. 1001 and 15 U.S.C. 2615), I certify that the information contained in or accompanying this document is true, accurate, and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy, I certify as the company official having supervisory responsibility for the person who, acting under my direct instructions, made the verification that this information is true, accurate, and complete.

Doug McLain

Doug McLain, Facility Manager

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039 Expires 9-30-99

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. O K 0 0 0 0 9 6 3 3 4 8
Manifest Document No. BF 052
2. Page 1 of
Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
WILLIAMS GAS PIPELINE ---BUFFALO, OK
13430 WEST 98TH ST BLDG 5, SHAWNEE MISSION, KS 66215
4. Generator's Phone (913) 310-7625

A. State Manifest Document Number
B. State Generator's ID

5. Transporter 1 Company Name: NP ENVIRONMENTAL
6. US EPA ID Number: C A T 0 0 0 6 2 4 2 4 7
C. State Transporter's ID: (888) 617-8849
D. Transporter's Phone

7. Transporter 2 Company Name
8. US EPA ID Number
E. State Transporter's ID
F. Transporter's Phone

9. Designated Facility Name and Site Address: SAFETY-KLEEN(LONE MOUNTAIN) INC
5E & 1N OF JCT 412 & 281
WAYNOKA, OK 73860-9622
10. US EPA ID Number: O K D 0 6 5 4 3 8 3 7 6
G. State Facility's ID
H. Facility's Phone: (580) 697-3500

11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)	HM	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. RQ POLYCHLORINATED BIPHENYLS, 9, NA2315, III, RQ(PCB'S)		0 0 1	D T	EST. 18000	K	NONE
b.						
c.						
d.						

J. Additional Descriptions for Materials Listed Above
Additional a.
EPA Waste b.
Codes c.
d.

K. Handling Codes for Wastes Listed Above
a. H132
b.
c.
d. SW 39960

15. Special Handling Instructions and Additional Information
Approval Numbers a. LN99-0131-06 b. c. d.
Emergency Contact: 913-310-7625
DATE OF REMOVAL FROM SERVICE 08/21/02

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.

If I am a 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 small quantity 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: Danny Clarkey — Signature: Danny L Clarkey — Date: Month 08 Day 21 Year 02

TRANSPORTER — 17. Transporter 1 Acknowledgement of Receipt of Materials — Printed/Typed Name: Steve Etherton — Signature: [signature] — Date: Month 08 Day 21 Year 02

18. Transporter 2 Acknowledgement of Receipt of Materials — Printed/Typed Name — Signature — Date: Month Day Year

FACILITY — 19. Discrepancy Indication Space: 02-3924

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.
Printed/Typed Name: BERDEANE PECK — Signature: Berdeane Peck — Date: Month 08 Day 22 Year 02

EPA Form 8700-22 (Rev. 9-88) previous editions obsolete

SAFETY-KLEEN CORP.
90290 (Rev 11/98) 6

ORIGINAL - RETURN TO GENERATOR

INSTRUCTIONS FOR COMPLETION OF THIS FORM, REFER CODE OF FEDERAL REGULATIONS 40 PART 262.20

223, U.S. Environmental Protection Agency, 401 M Street, SW, Washington, DC 20460; and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, DC 20503.

PCB WASTE - CERTIFICATE OF DISPOSAL

Safety-Kleen (Lone and Grassy Mountain), Inc.
Lone Mountain Facility
Route 2, Box 170
Waynoka, OK 73860
EPA ID # - OKD065438376

As required by 40 CFR 761.218, we are providing this Certificate of Disposal to WILLIAMS GAS PIPELINE -BUFFALO, EPA ID # OK0000963348 to confirm that

LINE	PROFILE No.	WASTE NAME	WEIGHT Kg	TYPE	CNTNRS	DISPOSED
1/A	LM99-0131-06	3006068 PCB SOIL & DEBRIS	18122.45	BULK	1	08/22/02

shipped on manifest number OK0000963348-BF052 was/were disposed in a RCRA hazardous waste landfill.

Under civil and criminal penalties of law for the making or submission of false or fraudulant statements or representations (18 U.S.C. 1001 and 15 U.S.C. 2615), I certify that the information contained in or accompanying this document is true, accurate, and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy, I certify as the company official having supervisory responsibility for the person who, acting under my direct instructions, made the verification that this information is true, accurate, and complete.

Doug McLain

Doug McLain, Facility Manager

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039 Expires 9-30-99

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. OK0000963348

Manifest Document No. BF 053

2. Page 1 of

Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
WILLIAMS GAS PIPELINE ---BUFFALO, OK
13430 WEST 98TH ST BLDG 5, SHAWNEE MISSION, KS 66215

4. Generator's Phone (913) 310-7625

A. State Manifest Document Number

B. State Generator's ID

5. Transporter 1 Company Name
NP ENVIRONMENTAL

6. US EPA ID Number
CAT000624247

C. State Transporter's ID

D. Transporter's Phone (580) 537-8889

7. Transporter 2 Company Name

8. US EPA ID Number

E. State Transporter's ID

F. Transporter's Phone

9. Designated Facility Name and Site Address
SAFETY-KLEEN (LONE MOUNTAIN) INC
5E & 1N OF JCT 412 & 281
WAYNOKA, OK 73860-9622

10. US EPA ID Number
OKD065438376

G. State Facility's ID

H. Facility's Phone (580) 697-3500

	11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a.	HM RQ POLYCHLORINATED BIPHENYLS, 9, NA2315, III, RQ(PCB'S)	001	DT	EST 18000	K	NONE
b.						
c.						
d.						

J. Additional Descriptions for Materials Listed Above
Additional Waste Codes a. b. c. d.
SLD 50290

K. Handling Codes for Wastes Listed Above
a. H132 b. c. d.
SW 40880

15. Special Handling Instructions and Additional Information
Approval Numbers a. LN99-0131-06 b. c. d.
Emergency Contact: 913-310-7625
DATE OF REMOVAL FROM SERVICE 08/21/02

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.

If I am a 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 small quantity 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: Danny L Larkey
Signature: Danny L Larkey
Date: Month 08 Day 21 Year 02

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Allen D Mowlde
Signature: Allen D Mowlde
Date: Month 08 Day 21 Year 02

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name
Signature
Date: Month Day Year

FACILITY

19. Discrepancy Indication Space
02-3923

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.
Printed/Typed Name: Wesley Hope
Signature: Wesley Hope
Date: Month 08 Day 22 Year 02

EPA Form 8700-22 (Rev. 9-88) previous editions obsolete

SAFETY-KLEEN CORP.

90290 (Rev 11/98) 6

ORIGINAL - RETURN TO GENERATOR

INSTRUCTIONS FOR COMPLETION OF THIS FORM, REFER CODE OF FEDERAL REGULATIONS 40 PART 262.20

423, U.S. Environmental Protection Agency, 401 M Street, SW, Washington, DC 20460; and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, DC 20503.

PCB WASTE - CERTIFICATE OF DISPOSAL

Safety-Kleen (Lone and Grassy Mountain), Inc.
Lone Mountain Facility
Route 2, Box 170
Waynoka, OK 73860
EPA ID # - OKD065438376

As required by 40 CFR 761.218, we are providing this Certificate of Disposal to WILLIAMS GAS PIPELINE -BUFFALO, EPA ID # OK0000963348 to confirm that

LINE	PROFILE No.	WASTE NAME	WEIGHT Kg	TYPE	CNTNRS	DISPOSED
1/A	LM99-0131-06	3006068 PCB SOIL & DEBRIS	18539.68	BULK	1	08/22/02

shipped on manifest number OK0000963348-BF053 was/were disposed in a RCRA hazardous waste landfill.

Under civil and criminal penalties of law for the making or submission of false or fraudulant statements or representations (18 U.S.C. 1001 and 15 U.S.C. 2615), I certify that the information contained in or accompanying this document is true, accurate, and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy, I certify as the company official having supervisory responsibility for the person who, acting under my direct instructions, made the verification that this information is true, accurate, and complete.

Doug McLain

Doug McLain, Facility Manager

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039 Expires 9-30-99

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. OK0000963348 Manifest Document No. BF 065

2. Page 1 of 1

Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
WILLIAMS GAS PIPELINE ---BUFFALO, OK
13430 WEST 98TH ST BLDG 5, SHAWNEE MISSION, KS 66215

4. Generator's Phone (913) 318-7625

A. State Manifest Document Number

B. State Generator's ID

5. Transporter 1 Company Name: NF ENVIRONMENTAL

6. US EPA ID Number: CAT000624247

C. State Transporter's ID

D. Transporter's Phone (888) 637-8889

7. Transporter 2 Company Name

8. US EPA ID Number

E. State Transporter's ID

F. Transporter's Phone

9. Designated Facility Name and Site Address
SAFETY-KLEEN(LONE MOUNTAIN)INC
5E & 1N OF JCT 412 & 281
HAYNOKA, OK 73860-9622

10. US EPA ID Number: OKD065438376

G. State Facility's ID

H. Facility's Phone (580) 697-3500

GENERATOR	11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)	HM	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a.	POLYCHLORINATED BIPHENYLS, 9, NA2315, III, RQ(PCB'S)	N.O.	001	DT	EST. 18000	K	NONE
b.							
c.							
d.							

J. Additional Descriptions for Materials Listed Above
Additional RCRA Waste Codes a. b. c. d.

K. Handling Codes for Wastes Listed Above
a. H132 b. c. d. SW44520

15. Special Handling Instructions and Additional Information
Approval Numbers a. LN99-0131-06 b. c. d.
Emergency Contact: 913-318-7625
DATE OF REMOVAL FROM SERVICE 08/21/02

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.

If I am a 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 small quantity 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: Danny L Larkey Signature: Danny L Larkey Date: Month 08 Day 21 Year 02

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: STONY AVANTS Signature: Stony Avants Date: Month 08 Day 21 Year 02

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name: Signature: Date: Month Day Year

FACILITY

19. Discrepancy Indication Space
Sec. 13 - per Mark Sullivan - Mfst. weight is estimated.
Resolve to Lone Mountain Weight 20190 . 8/21/02 VS 02-3925

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.
Printed/Typed Name: BER DEANE PECK Signature: Ber Deane Peck Date: Month 08 Day 22 Year 02

EPA Form 8700-22 (Rev. 9-88) previous editions obsolete

SAFETY-KLEEN CORP.

90290 (Rev 11/98) 6

ORIGINAL - RETURN TO GENERATOR

Estimated burden hours for completion of this form are 1.5 hours per response. Send comments regarding the burden estimate, including suggestions for reducing this burden, to: Chief, Information Policy Branch, PM-223, U.S. Environmental Protection Agency, 401 M Street, SW, Washington, DC 20460; and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, DC 20503.

INSTRUCTIONS FOR COMPLETION OF THIS FORM, REFER CODE OF FEDERAL REGULATIONS 40 PART 262.20

PCB WASTE - CERTIFICATE OF DISPOSAL

Safety-Kleen (Lone and Grassy Mountain), Inc.
Lone Mountain Facility
Route 2, Box 170
Waynoka, OK 73860
EPA ID # - OKD065438376

As required by 40 CFR 761.218, we are providing this Certificate of Disposal to WILLIAMS GAS PIPELINE -BUFFALO, EPA ID # OK0000963348 to confirm that

LINE	PROFILE No.	WASTE NAME	WEIGHT Kg	TYPE	CNTNRS	DISPOSED
1/A	LM99-0131-06	3006068 PCB SOIL & DEBRIS	20190.48	BULK	1	08/22/02

shipped on manifest number OK0000963348-BF054 was/were disposed in a RCRA hazardous waste landfill.

Under civil and criminal penalties of law for the making or submission of false or fraudulant statements or representations (18 U.S.C. 1001 and 15 U.S.C. 2615), I certify that the information contained in or accompanying this document is true, accurate, and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy, I certify as the company official having supervisory responsibility for the person who, acting under my direct instructions, made the verification that this information is true, accurate, and complete.

Doug McLain

Doug McLain, Facility Manager

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) SWO #50202 Trl# 920

Form Approved. OMB No. 2050-0039 Expires 9-30-99

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. OK0000963348 Manifest Document No. BF 055

2. Page 1 of

Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
WILLIAMS GAS PIPELINE ---BUFFALO, OK
13430 WEST 98TH ST BLDG 5, SHAWNEE MISSION, KS 66215

4. Generator's Phone (913) 310-7625

A. State Manifest Document Number

B. State Generator's ID

5. Transporter 1 Company Name
NP ENVIRONMENTAL

6. US EPA ID Number CAT000624247

C. State Transporter's ID

D. Transporter's Phone (888) 637-1009

7. Transporter 2 Company Name

8. US EPA ID Number

E. State Transporter's ID

F. Transporter's Phone

9. Designated Facility Name and Site Address
SAFETY-KLEEN(LONE MOUNTAIN)INC
5E & 1N OF JCT 612 & 281
WAUKOMIS, OK 73860-9622

10. US EPA ID Number OKD065438376

G. State Facility's ID

H. Facility's Phone (580) 697-3500

11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)

	HM	11. US DOT Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a.	X	POLYCHLORINATED BIPHENYLS, 9, NA2315, III, RQ(PCB'S)	001	DT	EST. 18000	K	N.O.R.
b.							
c.							
d.							

J. Additional Descriptions for Materials Listed Above
Additional a.
EPA Waste Codes b.
c.
d.

K. Handling Codes for Wastes Listed Above
a. H132
b.
c.
d.
SW 58800

15. Special Handling Instructions and Additional Information
Approval Numbers a.LN99-0131-06 b. c. d.
Emergency Contact: 913-310-7625
DATE OF REMOVAL FROM SERVICE 08/21/02

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.

If I am a 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 small quantity 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: Danny L Larkey Signature: Danny L Larkey Date: Month 08 Day 21 Year 02

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Kevin Pollock Signature: Kevin Pollock Date: Month 08 Day 21 Year 02

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name: Signature: Date: Month Day Year

19. Discrepancy Indication Space
Sec. 13 - per Mark Sullivan - Mfst. weight is estimated.
Resolve to Lone Mountain Weight 26667. 8/21/02 VS
02-3928

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.
Printed/Typed Name: Wesley Hope Signature: Wesley Hope Date: Month 08 Day 22 Year 02

GENERATOR

TRANSPORTER

FACILITY

EPA Form 8700-22 (Rev. 9-88) previous editions obsolete

SAFETY-KLEEN CORP.

90290 (Rev 11/98) 6

ORIGINAL - RETURN TO GENERATOR

INSTRUCTIONS FOR COMPLETION OF THIS FORM, REFER CODE OF FEDERAL REGULATIONS, 40, PART 262 20

U.S. Environmental Protection Agency, 401 M Street, SW, Washington, DC 20460; and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, DC 20503. Send comments regarding the burden estimate, including suggestions for reducing this burden, to: Chief, Information Policy Branch, PM-223,

PCB WASTE - CERTIFICATE OF DISPOSAL

Safety-Kleen (Lone and Grassy Mountain), Inc.
Lone Mountain Facility
Route 2, Box 170
Waynoka, OK 73860
EPA ID # - OKD065438376

As required by 40 CFR 761.218, we are providing this Certificate of Disposal to WILLIAMS GAS PIPELINE -BUFFALO, EPA ID # OK0000963348 to confirm that

LINE	PROFILE No.	WASTE NAME	WEIGHT Kg	TYPE	CNTNRS	DISPOSED
1/A	LM99-0131-06	3006068 PCB SOIL & DEBRIS	26666.67	BULK	1	08/22/02

shipped on manifest number OK0000963348-BF055 was/were disposed in a RCRA hazardous waste landfill.

Under civil and criminal penalties of law for the making or submission of false or fraudulant statements or representations (18 U.S.C. 1001 and 15 U.S.C. 2615), I certify that the information contained in or accompanying this document is true, accurate, and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy, I certify as the company official having supervisory responsibility for the person who, acting under my direct instructions, made the verification that this information is true, accurate, and complete.

Doug McLain

Doug McLain, Facility Manager

SWO-50294

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039 Expires 9-30-99

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: OK0000963348
Manifest Document No.: BF056
2. Page 1 of 1
Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
WILLIAMS GAS PIPELINE ---BUFFALO, OK
13430 WEST 98TH ST BLDG 5, SHAWNEE MISSION, KS 66215
4. Generator's Phone (913) 310-7625

A. State Manifest Document Number
B. State Generator's ID

5. Transporter 1 Company Name: NP ENVIRONMENTAL
6. US EPA ID Number: CAT000624247
C. State Transporter's ID
D. Transporter's Phone: (888) 637-8009

7. Transporter 2 Company Name
8. US EPA ID Number
E. State Transporter's ID
F. Transporter's Phone

9. Designated Facility Name and Site Address
SAFETY-KLEEN(LONE MOUNTAIN)INC
5E & 1N OF JCT 412 & 281
WAYNOKA, OK 73860-9622
10. US EPA ID Number: OKD065438376
G. State Facility's ID
H. Facility's Phone: (580) 697-3500

11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)	HM		12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a.	RQ	POLYCHLORINATED BIPHENYLS, 9, NA2315, III, RQ(PCB'S)	001	DT	EST. 18000	K	NONE
b.							
c.							
d.							

J. Additional Descriptions for Materials Listed Above
Additional EPA Waste Codes a. b. c. d.

K. Handling Codes for Wastes Listed Above
a. H132 b. c. d.
SW41140

15. Special Handling Instructions and Additional Information
Approval Numbers a. LM99-0131-06 b. c. d.
Emergency Contact: 913-310-7625
DATE OF REMOVAL FROM SERVICE 08/21/02

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.

If I am a 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 small quantity 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: Danny L Larkey
Signature: Danny L Larkey
Date: Month 08 Day 21 Year 02

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Leroy Zelenka
Signature: LeRoy Zelenka
Date: Month 08 Day 21 Year 02

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name
Signature
Date: Month Day Year

19. Discrepancy Indication Space
02-3926

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.
Printed/Typed Name: BerDeane Peck
Signature: BerDeane Peck
Month 08 Day 22 Year 02

GENERATOR / TRANSPORTER / FACILITY

EPA Form 8700-22 (Rev. 9-88) previous editions obsolete

SAFETY-KLEEN CORP.

90290 (Rev 11/98) 6

ORIGINAL - RETURN TO GENERATOR

INSTRUCTIONS FOR COMPLETION OF THIS FORM, REFER CODE OF FEDERAL REGULATIONS, 40, PART 262.20

223, U.S. Environmental Protection Agency, 401 M Street, SW, Washington, DC 20460; and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, DC 20503.

PCB WASTE - CERTIFICATE OF DISPOSAL

Safety-Kleen (Lone and Grassy Mountain), Inc.
Lone Mountain Facility
Route 2, Box 170
Waynoka, OK 73860
EPA ID # - OKD065438376

As required by 40 CFR 761.218, we are providing this Certificate of Disposal to WILLIAMS GAS PIPELINE -BUFFALO, EPA ID # OK0000963348 to confirm that

LINE	PROFILE No.	WASTE NAME	WEIGHT Kg	TYPE	CNTNRS	DISPOSED
1/A	LM99-0131-06	3006068 PCB SOIL & DEBRIS	18657.60	BULK	1	08/22/02

shipped on manifest number OK0000963348-BF056 was/were disposed in a RCRA hazardous waste landfill.

Under civil and criminal penalties of law for the making or submission of false or fraudulant statements or representations (18 U.S.C. 1001 and 15 U.S.C. 2615), I certify that the information contained in or accompanying this document is true, accurate, and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy, I certify as the company official having supervisory responsibility for the person who, acting under my direct instructions, made the verification that this information is true, accurate, and complete.

Doug McLain

Doug McLain, Facility Manager

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039 Expires 9-30-99

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: OK0000963348
Manifest Document No.: BF057
2. Page 1 of 1

Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
WILLIAMS GAS PIPELINE ---BUFFALO, OK
13430 WEST 98TH ST BLDG 5, SHAWNEE MISSION, KS 66215
4. Generator's Phone (913) 310-7625

A. State Manifest Document Number
B. State Generator's ID

5. Transporter 1 Company Name: WP ENVIRONMENTAL
6. US EPA ID Number: CAT000624247
C. State Transporter's ID
D. Transporter's Phone: (888) 637-8889

7. Transporter 2 Company Name
8. US EPA ID Number
E. State Transporter's ID
F. Transporter's Phone

9. Designated Facility Name and Site Address
SAFETY-KLEEN(LONE MOUNTAIN)INC
5E & 1N OF JCT 412 & 281
WAYNOKA, OK 73860-9622
10. US EPA ID Number: OKD065438376
G. State Facility's ID
H. Facility's Phone: (580) 697-2500

11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)

	HM	11. US DOT Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a.	RQ	POLYCHLORINATED BIPHENYLS, 9, NA2315, III, RQ(PCB'S)	001	DT	EST. 18000	K	NONE
b.							
c.							
d.							

J. Additional Descriptions for Materials Listed Above
Additional EPA Waste Codes: a. b. c. d.

K. Handling Codes for Wastes Listed Above
a. H132 b. c. d. SW37960

15. Special Handling Instructions and Additional Information
Approval Numbers a. LN99-0131-06 b. c. d.
Emergency Contact: 913-310-7625
DATE OF REMOVAL FROM SERVICE 08/21/02

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.

If I am a 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 small quantity 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: Danny L Larkey — Signature: Danny L Larkey — Date: Month 08 Day 21 Year 02

TRANSPORTER — 17. Transporter 1 Acknowledgement of Receipt of Materials — Printed/Typed Name: Rinnie Stanley — Signature: Rinnie Stanley — Date: Month 08 Day 21 Year 02

18. Transporter 2 Acknowledgement of Receipt of Materials — Printed/Typed Name: — Signature: — Date: Month Day Year

FACILITY — 19. Discrepancy Indication Space: 02-3932

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.
Printed/Typed Name: Wesley Hope — Signature: Wesley Hope — Date: Month 08 Day 22 Year 02

EPA Form 8700-22 (Rev. 9-88) previous editions obsolete

SAFETY-KLEEN CORP.

90290 (Rev 11/98) 6

ORIGINAL - RETURN TO GENERATOR

INSTRUCTIONS FOR COMPLETION OF THIS FORM, REFER CODE OF FEDERAL REGULATIONS 40 PART 262.20

223, U.S. Environmental Protection Agency, 401 M Street, SW, Washington, DC 20460; and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, DC 20503.

PCB WASTE - CERTIFICATE OF DISPOSAL

Safety-Kleen (Lone and Grassy Mountain), Inc.
Lone Mountain Facility
Route 2, Box 170
Waynoka, OK 73860
EPA ID # - OKD065438376

As required by 40 CFR 761.218, we are providing this Certificate of Disposal to WILLIAMS GAS PIPELINE -BUFFALO, EPA ID # OK0000963348 to confirm that

LINE	PROFILE No.	WASTE NAME	WEIGHT Kg	TYPE	CNTNRS	DISPOSED
1/A	LM99-0131-06	3006068 PCB SOIL & DEBRIS	17215.42	BULK	1	08/22/02

shipped on manifest number OK0000963348-BF057 was/were disposed in a RCRA hazardous waste landfill.

Under civil and criminal penalties of law for the making or submission of false or fraudulant statements or representations (18 U.S.C. 1001 and 15 U.S.C. 2615), I certify that the information contained in or accompanying this document is true, accurate, and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy, I certify as the company official having supervisory responsibility for the person who, acting under my direct instructions, made the verification that this information is true, accurate, and complete.

Doug McLain

Doug McLain, Facility Manager

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039 Expires 9-30-99

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. O K 0 0 0 0 9 6 3 3 4 8

Manifest Document No. BF 058

2. Page 1 of

Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
WILLIAMS GAS PIPELINE ---BUFFALO, OK
13430 WEST 98TH ST BLDG 5, SHAWNEE MISSION, KS 66215

4. Generator's Phone (913) 310-7625

A. State Manifest Document Number

B. State Generator's ID

5. Transporter 1 Company Name
NP ENVIRONMENTAL

6. US EPA ID Number
C A T 0 0 0 6 2 4 2 4 7

C. State Transporter's ID

D. Transporter's Phone (888) 637-8009

7. Transporter 2 Company Name

8. US EPA ID Number

E. State Transporter's ID

F. Transporter's Phone

9. Designated Facility Name and Site Address
SAFETY-KLEEN(LONE MOUNTAIN)INC
5E & 1N OF JCT 412 & 281
WAYNOKA, OK 73860-9622

10. US EPA ID Number
O K D 0 6 5 4 3 8 3 7 6

G. State Facility's ID

H. Facility's Phone (580) 697-3500

	11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)	HM	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a.	POLYCHLORINATED BIPHENYLS, 9, NA2315, III, RQ(PCB'S)	X Q	0 0 1	D T	EST 18000	K	NONE
b.							
c.							
d.							

J. Additional Descriptions for Materials Listed Above
Additional EPA Waste Codes a. b. c. d.

K. Handling Codes for Wastes Listed Above
a. H132 b. c. d. SW39800

15. Special Handling Instructions and Additional Information
Approval Numbers a. LN99-0131-06 b. c. d.
Emergency Contact: 913-310-7625
DATE OF REMOVAL FROM SERVICE 08/21/02

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.

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Printed/Typed Name: Danny L Larkey — Signature: Danny L Larkey — Date (Month Day Year): 08 21 02

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Tom LEMKE — Signature: Tom Lemke — Date (Month Day Year): 08 21 02

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name — Signature — Date (Month Day Year)

FACILITY

19. Discrepancy Indication Space
02-3934

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.
Printed/Typed Name: BERDEANE PECK — Signature: Ber Deane Peck — Date (Month Day Year): 08 22 02

EPA Form 8700-22 (Rev. 9-88) previous editions obsolete

SAFETY-KLEEN CORP.

90290 (Rev 11/98) 6

ORIGINAL - RETURN TO GENERATOR

GENERATOR

INSTRUCTIONS FOR COMPLETION OF THIS FORM, REFER CODE OF FEDERAL REGULATIONS 40 PART 262.20

223, U.S. Environmental Protection Agency, 401 M Street, SW, Washington, DC 20460; and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, DC 20503.

PCB WASTE - CERTIFICATE OF DISPOSAL

Safety-Kleen (Lone and Grassy Mountain), Inc.
Lone Mountain Facility
Route 2, Box 170
Waynoka, OK 73860
EPA ID # - OKD065438376

As required by 40 CFR 761.218, we are providing this Certificate of Disposal to WILLIAMS GAS PIPELINE -BUFFALO, EPA ID # OK0000963348 to confirm that

LINE	PROFILE No.	WASTE NAME	WEIGHT Kg	TYPE	CNTNRS	DISPOSED
1/A	LM99-0131-06	3006068 PCB SOIL & DEBRIS	18049.89	BULK	1	08/22/02

shipped on manifest number OK0000963348-BF058 was/were disposed in a RCRA hazardous waste landfill.

Under civil and criminal penalties of law for the making or submission of false or fraudulant statements or representations (18 U.S.C. 1001 and 15 U.S.C. 2615), I certify that the information contained in or accompanying this document is true, accurate, and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy, I certify as the company official having supervisory responsibility for the person who, acting under my direct instructions, made the verification that this information is true, accurate, and complete.

Doug McLain

Doug McLain, Facility Manager

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039 Expires 9-30-99

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. OK0000963348 Manifest Document No. BF 059

2. Page 1 of

Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
WILLIAMS GAS PIPELINE ---BUFFALO, OK
13430 WEST 98TH ST BLDG 5, SHAWNEE MISSION, KS 66215

4. Generator's Phone (913) 310-7625

A. State Manifest Document Number

B. State Generator's ID

5. Transporter 1 Company Name
HP ENVIRONMENTAL

6. US EPA ID Number
CAT000624247

C. State Transporter's ID

D. Transporter's Phone (888) 637-8889

7. Transporter 2 Company Name

8. US EPA ID Number

E. State Transporter's ID

F. Transporter's Phone

9. Designated Facility Name and Site Address
SAFETY-KLEEN(LONE MOUNTAIN)INC
5E & 1N OF JCT 412 & 281
WAYNOKA, OK 73860-9622

10. US EPA ID Number
OKD065438376

G. State Facility's ID

H. Facility's Phone (580) 697-3500

	11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a.	HM RQ POLYCHLORINATED BIPHENYLS, 9, NA2315, III, RQ(PCB'S)	001	DT	EST. 18000	K	NONE
b.						
c.						
d.						

J. Additional Descriptions for Materials Listed Above
Additional EPA Waste Codes a. b. c. d.

K. Handling Codes for Wastes Listed Above
a. H132 b. c. d. SW40980

15. Special Handling Instructions and Additional Information
Approval Numbers a. LK99-0131-06 b. c. d.
Emergency Contact: 913-310-7625
DATE OF REMOVAL FROM SERVICE 08/21/02

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.

If I am a 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 small quantity 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: Danny Clarkey Signature: Danny Clarkey Date: Month 08 Day 21 Year 02

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: Louis M Daniels Signature: Louis M Daniels Date: Month 08 Day 21 Year 02

TRANSPORTER

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name Signature Date: Month Day Year

FACILITY

19. Discrepancy Indication Space
02-3933

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.

Printed/Typed Name: BerDeane Peck Signature: BerDeane Peck Date: Month 08 Day 22 Year 02

EPA Form 8700-22 (Rev. 9-88) previous editions obsolete

SAFETY-KLEEN CORP.

90290 (Rev 11/98) 6

ORIGINAL - RETURN TO GENERATOR

223, U.S. Environmental Protection Agency, 401 M Street, SW, Washington, DC 20460; and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, DC 20503.

INSTRUCTIONS FOR COMPLETION OF THIS FORM, REFER CODE OF FEDERAL REGULATIONS 40 PART 262.20

PCB WASTE - CERTIFICATE OF DISPOSAL

Safety-Kleen (Lone and Grassy Mountain), Inc.
Lone Mountain Facility
Route 2, Box 170
Waynoka, OK 73860
EPA ID # - OKD065438376

As required by 40 CFR 761.218, we are providing this Certificate of Disposal to WILLIAMS GAS PIPELINE -BUFFALO, EPA ID # OK0000963348 to confirm that

LINE	PROFILE No.	WASTE NAME	WEIGHT Kg	TYPE	CNTNRS	DISPOSED
1/A	LM99-0131-06	3006068 PCB SOIL & DEBRIS	18585.03	BULK	1	08/22/02

shipped on manifest number OK0000963348-BF059 was/were disposed in a RCRA hazardous waste landfill.

Under civil and criminal penalties of law for the making or submission of false or fraudulant statements or representations (18 U.S.C. 1001 and 15 U.S.C. 2615), I certify that the information contained in or accompanying this document is true, accurate, and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy, I certify as the company official having supervisory responsibility for the person who, acting under my direct instructions, made the verification that this information is true, accurate, and complete.

Doug McLain

Doug McLain, Facility Manager

Swd 50219

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039 Expires 9-30-99

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. OK0000963348

Manifest Document No. BF 060

2. Page 1 of

Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address

WILLIAMS GAS PIPELINE ---BUFFALO, OK
13430 WEST 98TH ST BLDG 5, SHAWNEE MISSION, KS 66215

4. Generator's Phone (913) 310-7625

A. State Manifest Document Number

B. State Generator's ID

5. Transporter 1 Company Name: NP ENVIRONMENTAL

6. US EPA ID Number: CAT000624247

C. State Transporter's ID

D. Transporter's Phone [illegible]

7. Transporter 2 Company Name

8. US EPA ID Number

E. State Transporter's ID

F. Transporter's Phone

9. Designated Facility Name and Site Address
SAFETY-KLEEN(LONE MOUNTAIN)INC
5E & 1N OF JCT 412 & 281
WAYNOKA, OK 73860-9622

10. US EPA ID Number: OKD065438376

G. State Facility's ID

H. Facility's Phone (580) 697-3500

GENERATOR	11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)	HM	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a.	POLYCHLORINATED BIPHENYLS, 9, NA2315, III, RQ(PCB'S)	RQ	001	DT	EST 18000	K	NONE
b.							
c.							
d.							

J. Additional Descriptions for Materials Listed Above
Additional EPA Waste Codes a. b. c. d.

K. Handling Codes for Wastes Listed Above
a. H132 b. c. d. SW 31700

15. Special Handling Instructions and Additional Information
Approval Numbers a. LN99-0131-06 b. c. d.
Emergency Contact: 913-310-7625

DATE OF REMOVAL FROM SERVICE 08/22/01

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Printed/Typed Name: Danny L Larkey — Signature: Danny L Larkey — Date: Month 08 Day 22 Year 02

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: DARIN CLAPPER — Signature: [illegible] — Date: Month 8 Day 22 Year 02

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name — Signature — Date: Month Day Year

FACILITY

19. Discrepancy Indication Space
Sec. 13 - per Mark Sullivan - Mfst. weight is estimated.
Resolve to Lone Mountain Weight 14376. 8/22/02 VS 02-3936

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.

Printed/Typed Name: BER DEANE PECK — Signature: Ber Deane Peck — Date: Month 08 Day 22 Year 02

EPA Form 8700-22 (Rev. 9-88) previous editions obsolete

SAFETY-KLEEN CORP.

90290 (Rev 11/98) 6

ORIGINAL - RETURN TO GENERATOR

Public reporting burden for this collection of information is estimated to average 30 minutes for generators, 15 minutes for transporters, and 15 minutes for facilities per response including time for reviewing instructions, gathering data, and completing and reviewing the form. Send comments regarding the burden estimate, including suggestions for reducing this burden, to: Chief, Information Policy Branch, PM-223, U.S. Environmental Protection Agency, 401 M Street, SW, Washington, DC 20460; and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, DC 20503.

PCB WASTE - CERTIFICATE OF DISPOSAL

Safety-Kleen (Lone and Grassy Mountain), Inc.
Lone Mountain Facility
Route 2, Box 170
Waynoka, OK 73860
EPA ID # - OKD065438376

As required by 40 CFR 761.218, we are providing this Certificate of Disposal to WILLIAMS GAS PIPELINE -BUFFALO, EPA ID # OK0000963348 to confirm that

LINE	PROFILE No.	WASTE NAME	WEIGHT Kg	TYPE	CNTNRS	DISPOSED
1/A	LM99-0131-06	3006068 PCB SOIL & DEBRIS	14376.42	BULK	1	08/22/02

shipped on manifest number OK0000963348-BF060 was/were disposed in a RCRA hazardous waste landfill.

Under civil and criminal penalties of law for the making or submission of false or fraudulant statements or representations (18 U.S.C. 1001 and 15 U.S.C. 2615), I certify that the information contained in or accompanying this document is true, accurate, and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy, I certify as the company official having supervisory responsibility for the person who, acting under my direct instructions, made the verification that this information is true, accurate, and complete.

Doug McLain

Doug McLain, Facility Manager

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039 Expires 9-30-99

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. OK0000963348 — Manifest Document No. 13F 061

2. Page 1 of 1

Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
WILLIAMS GAS PIPELINE ---BUFFALO, OK
13430 WEST 98TH ST BLDG 5, SHAWNEE MISSION, KS 66215

4. Generator's Phone (913) 310-7625

A. State Manifest Document Number

B. State Generator's ID

5. Transporter 1 Company Name: MP ENVIRONMENTAL

6. US EPA ID Number: CAT000624247

C. State Transporter's ID

D. Transporter's Phone: (888) 637-8009

7. Transporter 2 Company Name

8. US EPA ID Number

E. State Transporter's ID

F. Transporter's Phone

9. Designated Facility Name and Site Address
SAFETY-KLEEN(LONE MOUNTAIN)INC
5E & 1N OF JCT 412 & 281
WAYNOKA, OK 73860-9622

10. US EPA ID Number: OKD065438376

G. State Facility's ID

H. Facility's Phone: (580) 697-3500

11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)	HM		12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a.	RQ	POLYCHLORINATED BIPHENYLS, 9, NA2315, III, RQ(PCB'S)	001	DT	EST. 18000	K	NONE
b.							
c.							
d.							

J. Additional Descriptions for Materials Listed Above
Additional EPA Waste Codes a. b. c. d.
TH 99
Sw 50291

K. Handling Codes for Wastes Listed Above
a. H132
b.
c.
d.
SW38820

15. Special Handling Instructions and Additional Information
Approval Numbers a. LM99-0131-06 b. c. d.
Emergency Contact: 913-310-7625

DATE OF REMOVAL FROM SERVICE 08/22/02

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Printed/Typed Name: Danny C Larkey — Signature: Danny C Larkey — Date: Month 08 Day 22 Year 02

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Allen D Moalder — Signature: Allen D Moalder — Date: Month 08 Day 22 Year 02

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name — Signature — Date: Month Day Year

19. Discrepancy Indication Space
02-3938

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.
Printed/Typed Name: BER DEANE PECK — Signature: Ber Deane Peck — Month 08 Day 22 Year 02

GENERATOR — TRANSPORTER — FACILITY

EPA Form 8700-22 (Rev. 9-88) previous editions obsolete

SAFETY-KLEEN CORP

90290 (Rev 11/98) 6

ORIGINAL - RETURN TO GENERATOR

Public reporting burden for this collection of information is estimated to average: 37 minutes for generators, 15 minutes for transporters, and 15 minutes for ... reviewing instructions, gathering data, and completing and reviewing the form. Send comments regarding the burden estimate, including suggestions for reducing this burden, to: Chief, Information Policy Branch, PM 223, U.S. Environmental Protection Agency, 401 M Street, SW, Washington, DC 20460; and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, DC 20503.

PCB WASTE - CERTIFICATE OF DISPOSAL

Safety-Kleen (Lone and Grassy Mountain), Inc.
Lone Mountain Facility
Route 2, Box 170
Waynoka, OK 73860
EPA ID # - OKD065438376

As required by 40 CFR 761.218, we are providing this Certificate of Disposal to WILLIAMS GAS PIPELINE -BUFFALO, EPA ID # OK0000963348 to confirm that

LINE	PROPILE No.	WASTE NAME	WEIGHT Kg	TYPE	CNTNRS	DISPOSED
1/A	LM99-0131-06	3006068 PCB SOIL & DEBRIS	17605.44	BULK	1	08/22/02

shipped on manifest number OK0000963348-BF061 was/were disposed in a RCRA hazardous waste landfill.

Under civil and criminal penalties of law for the making or submission of false or fraudulant statements or representations (18 U.S.C. 1001 and 15 U.S.C. 2615), I certify that the information contained in or accompanying this document is true, accurate, and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy, I certify as the company official having supervisory responsibility for the person who, acting under my direct instructions, made the verification that this information is true, accurate, and complete.

Doug McLain

Doug McLain, Facility Manager

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039 Expires 9-30-99

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. OK0000963348 | Manifest Document No. BF 062 | 2. Page 1 of

Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
WILLIAMS GAS PIPELINE ---BUFFALO, OK
13430 WEST 98TH ST BLDG 5, SHAWNEE MISSION, KS 66215

4. Generator's Phone (913) 310-7625

A. State Manifest Document Number
B. State Generator's ID

5. Transporter 1 Company Name: HP ENVIRONMENTAL
6. US EPA ID Number: CAT000624247

C. State Transporter's ID
D. Transporter's Phone: (888) 637-8069

7. Transporter 2 Company Name
8. US EPA ID Number

E. State Transporter's ID
F. Transporter's Phone

9. Designated Facility Name and Site Address
SAFETY-KLEEN(LONE MOUNTAIN)INC
5E & 1N OF JCT 412 & 281
WAYNOKA, OK 73860-9622
10. US EPA ID Number: OKD065438376

G. State Facility's ID
H. Facility's Phone: (580) 697-3500

11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)	HM	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. POLYCHLORINATED BIPHENYLS, 9, NA2315, III, RQ(PCB'S)	RQ	001	DT	EST. 18000	K	NONE
b.						
c.						
d.						

J. Additional Descriptions for Materials Listed Above
Additional EPA Waste Codes: a. b. c. d.

K. Handling Codes for Wastes Listed Above
a. H132
b.
c.
d. SW309000

15. Special Handling Instructions and Additional Information
Approval Numbers: a. LN99-0131-06 b. c. d.
Emergency Contact: 913-310-7625
DATE OF REMOVAL FROM SERVICE 08/22/02

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.

If I am a 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 small quantity 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: Danny L Larkey | Signature: Danny L Larkey | Date: Month 08 Day 22 Year 02

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Steve Etherton | Signature: [signature] | Date: Month 08 Day 22 Year 02

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name | Signature | Date: Month Day Year

FACILITY

19. Discrepancy Indication Space
Sec. 13 - per Mark Sullivan - Mfst. weight is estimated.
Resolve to Lone Mountain Weight 14040 . 8/22/02 VS
02-3939

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.
Printed/Typed Name: BERDEANE PECK | Signature: Ber Deane Peck | Date: Month 08 Day 22 Year 02

EPA Form 8700-22 (Rev. 9-88) previous editions obsolete

SAFETY-KLEEN CORP.

90290 (Rev 11/98) 6

ORIGINAL - RETURN TO GENERATOR

GENERATOR

INSTRUCTIONS FOR COMPLETION OF THIS FORM, REFER CODE OF FEDERAL REGULATIONS, 40, PART 262.20

223, U.S. Environmental Protection Agency, 401 M Street, SW, Washington, DC 20460; and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, DC 20503.

PCB WASTE - CERTIFICATE OF DISPOSAL

Safety-Kleen (Lone and Grassy Mountain), Inc.
Lone Mountain Facility
Route 2, Box 170
Waynoka, OK 73860
EPA ID # - OKD065438376

As required by 40 CFR 761.218, we are providing this Certificate of Disposal to WILLIAMS GAS PIPELINE -BUFFALO, EPA ID # OK0000963348 to confirm that

LINE	PROFILE No.	WASTE NAME	WEIGHT Kg	TYPE	CNTNRS	DISPOSED
1/A	LM99-0131-06	3006068 PCB SOIL & DEBRIS	14040.82	BULK	1	08/22/02

shipped on manifest number OK0000963348-BF062 was/were disposed in a RCRA hazardous waste landfill.

Under civil and criminal penalties of law for the making or submission of false or fraudulant statements or representations (18 U.S.C. 1001 and 15 U.S.C. 2615), I certify that the information contained in or accompanying this document is true, accurate, and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy, I certify as the company official having supervisory responsibility for the person who, acting under my direct instructions, made the verification that this information is true, accurate, and complete.

Doug McLain

Doug McLain, Facility Manager

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039 Expires 9-30-99

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. OK0000963348

Manifest Document No. BF 063

2. Page 1 of

Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
WILLIAMS GAS PIPELINE ---BUFFALO, OK
13430 WEST 98TH ST BLDG 5, SHAWNEE MISSION, KS 66215

4. Generator's Phone (913) 310-7625

A. State Manifest Document Number

B. State Generator's ID

5. Transporter 1 Company Name
NF ENVIRONMENTAL

6. US EPA ID Number
CAT000624247

C. State Transporter's ID

D. Transporter's Phone (888) 637-8889

7. Transporter 2 Company Name

8. US EPA ID Number

E. State Transporter's ID

F. Transporter's Phone

9. Designated Facility Name and Site Address
SAFETY-KLEEN(LONE MOUNTAIN)INC
5E & 1N OF JCT 412 & 281
WAYNOKA, OK 73860-9622

10. US EPA ID Number
OKD065438376

G. State Facility's ID

H. Facility's Phone (580) 697-3500

11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)	HM	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. RQ POLYCHLORINATED BIPHENYLS, 9, NA2315, III, RQ(PCB'S)		001	DT	EST. 18000	K	NONE
b.						
c.						
d.						

J. Additional Descriptions for Materials Listed Above
Additional RCRA Waste Codes a. b. c. d.

K. Handling Codes for Wastes Listed Above
a. H132 b. c. d. SW39880

15. Special Handling Instructions and Additional Information
Approval Numbers a. LN99-0131-06 b. c. d.
Emergency Contact: 913-310-7625

DATE OF REMOVAL FROM SERVICE 08/22/02

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.

If I am a 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 small quantity 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: Danny C Larkey — Signature: Danny C Larkey — Date: Month 08 Day 22 Year 02

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: STONY AVANTS — Signature: Stony Avants — Date: Month 08 Day 22 Year 02

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name: — Signature: — Date: Month Day Year

FACILITY

19. Discrepancy Indication Space
02-3940

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.
Printed/Typed Name: BERDEANE PECK — Signature: BerDeane Peck — Date: Month 08 Day 22 Year 02

GENERATOR

INSTRUCTIONS FOR COMPLETION OF THIS FORM, REFER CODE OF FEDERAL REGULATIONS 40 PART 262.20

EPA Form 8700-22 (Rev. 9-88) previous editions obsolete

SAFETY-KLEEN CORP.

90290 (Rev 11/98) 6

ORIGINAL - RETURN TO GENERATOR

reviewing instructions, gathering data, and completing and reviewing the form. Send comments regarding the burden estimate, including suggestions for reducing this burden, to: Chief, Information Policy Branch, PM-223, U.S. Environmental Protection Agency, 401 M Street, SW, Washington, DC 20460; and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, DC 20503.

PCB WASTE - CERTIFICATE OF DISPOSAL

Safety-Kleen (Lone and Grassy Mountain), Inc.
Lone Mountain Facility
Route 2, Box 170
Waynoka, OK 73860
EPA ID # - OKD065438376

As required by 40 CFR 761.218, we are providing this Certificate of Disposal to WILLIAMS GAS PIPELINE -BUFFALO, EPA ID # OK0000963348 to confirm that

LINE	PROFILE No.	WASTE NAME	WEIGHT Kg	TYPE	CNTNRS	DISPOSED
1/A	LM99-0131-06	3006068 PCB SOIL & DEBRIS	18086.17	BULK	1	08/22/02

shipped on manifest number OK0000963348-BF063 was/were disposed in a RCRA hazardous waste landfill.

Under civil and criminal penalties of law for the making or submission of false or fraudulant statements or representations (18 U.S.C. 1001 and 15 U.S.C. 2615), I certify that the information contained in or accompanying this document is true, accurate, and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy, I certify as the company official having supervisory responsibility for the person who, acting under my direct instructions, made the verification that this information is true, accurate, and complete.

Doug McLain

Doug McLain, Facility Manager

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039 Expires 9-30-99

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. OK0000963348 Manifest Document No. BF 064

2. Page 1 of 1

Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
WILLIAMS GAS PIPELINE ---BUFFALO, OK
13430 WEST 98TH ST BLDG 5, SHAWNEE MISSION, KS 66215

4. Generator's Phone (913) 310-7625

A. State Manifest Document Number

B. State Generator's ID

5. Transporter 1 Company Name: NP ENVIRONMENTAL

6. US EPA ID Number: CAT000624247

C. State Transporter's ID

D. Transporter's Phone: (888) 637-8889

7. Transporter 2 Company Name

8. US EPA ID Number

E. State Transporter's ID

F. Transporter's Phone

9. Designated Facility Name and Site Address
SAFETY-KLEEN(LONE MOUNTAIN)INC
5E & 1N OF JCT 412 & 281
WAYNOKA, OK 73860-9622

10. US EPA ID Number: OKD065438376

G. State Facility's ID

H. Facility's Phone: (580) 697-3500

	11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)	HM	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a.	POLYCHLORINATED BIPHENYLS, 9, NA2315, III, RQ(PCB'S)	RQ	001	DT	EST. 18000	K	NONE
b.							
c.							
d.							

J. Additional Descriptions for Materials Listed Above
Additional EPA Waste Codes: a. b. c. d.

K. Handling Codes for Wastes Listed Above
a. H132
b.
c.
d. SW39320

15. Special Handling Instructions and Additional Information
Approval Numbers: a. LK99-0131-06 b. c. d.
Emergency Contact: 913-310-7625
DATE OF REMOVAL FROM SERVICE 08/22/02
SWD # 50285

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.

If I am a 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 small quantity 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: Danny L Larkey Signature: Danny L Larkey Date: Month 08 Day 22 Year 02

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Lonnie Blair Signature: Lonnie Blair Date: Month 08 Day 22 Year 02

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name: Signature: Date: Month Day Year

19. Discrepancy Indication Space
02-3945

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.
Printed/Typed Name: BER DEANE PECK Signature: Ber Deane Peck Date: Month 08 Day 22 Year 02

GENERATOR / TRANSPORTER / FACILITY

EPA Form 8700-22 (Rev. 9-88) previous editions obsolete

SAFETY-KLEEN CORP.

90290 (Rev 11/98) 6

ORIGINAL - RETURN TO GENERATOR

reviewing instructions, gathering data, and completing and reviewing the form. Send comments regarding the burden estimate, including suggestions for reducing this burden, to: Chief, Information Policy Branch, PM-223, U.S. Environmental Protection Agency, 401 M Street, SW, Washington, DC 20460; and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, DC 20503.

INSTRUCTIONS FOR COMPLETION OF THIS FORM, REFER CODE OF FEDERAL REGULATIONS 40 PART 262.20

PCB WASTE - CERTIFICATE OF DISPOSAL

Safety-Kleen (Lone and Grassy Mountain), Inc.
Lone Mountain Facility
Route 2, Box 170
Waynoka, OK 73860
EPA ID # - OKD065438376

As required by 40 CFR 761.218, we are providing this Certificate of Disposal to WILLIAMS GAS PIPELINE -BUFFALO, EPA ID # OK0000963348 to confirm that

LINE	PROFILE No.	WASTE NAME	WEIGHT Kg	TYPE	CNTNRS	DISPOSED
1/A	LM99-0131-06	3006068 PCB SOIL & DEBRIS	17832.20	BULK	1	08/22/02

shipped on manifest number OK0000963348-BF064 was/were disposed in a RCRA hazardous waste landfill.

Under civil and criminal penalties of law for the making or submission of false or fraudulant statements or representations (18 U.S.C. 1001 and 15 U.S.C. 2615), I certify that the information contained in or accompanying this document is true, accurate, and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy, I certify as the company official having supervisory responsibility for the person who, acting under my direct instructions, made the verification that this information is true, accurate, and complete.

Doug McLain

Doug McLain, Facility Manager

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039 Expires 9-30-99

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. OK0000963348 Manifest Document No. BF 065

2. Page 1 of

Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
WILLIAMS GAS PIPELINE ---BUFFALO, OK
13430 WEST 98TH ST BLDG 5, SHAWNEE MISSION, KS 66215

4. Generator's Phone (913) 310-7625

A. State Manifest Document Number

B. State Generator's ID

5. Transporter 1 Company Name: KP ENVIRONMENTAL

6. US EPA ID Number: CAT000624247

C. State Transporter's ID

D. Transporter's Phone: (888) 637-8889

7. Transporter 2 Company Name

8. US EPA ID Number

E. State Transporter's ID

F. Transporter's Phone

9. Designated Facility Name and Site Address
SAFETY-KLEEN(LONE MOUNTAIN)INC
5E & 1N OF JCT 412 & 281
WAYNOKA, OK 73860-9622

10. US EPA ID Number: OKD065438376

G. State Facility's ID

H. Facility's Phone: (580) 697-3500

	11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)	HM	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a.	POLYCHLORINATED BIPHENYLS, 9, NA2315, III, RQ(PCB'S)	RQ	001	DT	EST. 18000	K	NONE
b.							
c.							
d.							

J. Additional Descriptions for Materials Listed Above
Additional EPA Waste Codes: a. b. c. d.

K. Handling Codes for Wastes Listed Above
a. H132
b.
c.
d. SW34780

15. Special Handling Instructions and Additional Information
Approval Numbers a. LK99-0131-06 b. c. d.
Emergency Contact: 913-310-7625
DATE OF REMOVAL FROM SERVICE 08/22/02
SWO# 50289

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.

If I am a 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 small quantity 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: Danny L Larkey Signature: Danny L Larkey Date: Month 08 Day 22 Year 02

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Jim Collier Signature: Jim Collier Date: Month 08 Day 22 Year 02

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name: Signature: Date: Month Day Year

19. Discrepancy Indication Space
02-3946

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.
Printed/Typed Name: BERDEANE PECK Signature: Berdeane Peck Date: Month 08 Day 22 Year 02

GENERATOR / TRANSPORTER / FACILITY

EPA Form 8700-22 (Rev. 9-88) previous editions obsolete

SAFETY-KLEEN CORP.

90290 (Rev 11/98) 6

ORIGINAL - RETURN TO GENERATOR

INSTRUCTIONS FOR COMPLETION OF THIS FORM, REFER CODE OF FEDERAL REGULATIONS 40 PART 262.20

reviewing instructions, gathering data, and completing and reviewing the form. Send comments regarding the burden estimate, including suggestions for reducing this burden, to: Chief, Information Policy Branch, PM-223, U.S. Environmental Protection Agency, 401 M Street, SW, Washington, DC 20460; and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, DC 20503.

PCB WASTE - CERTIFICATE OF DISPOSAL

Safety-Kleen (Lone and Grassy Mountain), Inc.
Lone Mountain Facility
Route 2, Box 170
Waynoka, OK 73860
EPA ID # - OKD065438376

As required by 40 CFR 761.218, we are providing this Certificate of Disposal to WILLIAMS GAS PIPELINE -BUFFALO, EPA ID # OK0000963348 to confirm that

LINE	PROFILE No.	WASTE NAME	WEIGHT Kg	TYPE	CNTNRS	DISPOSED
1/A	LM99-0131-06	3006068 PCB SOIL & DEBRIS	17133.79	BULK	1	08/22/02

shipped on manifest number OK0000963348-BF065 was/were disposed in a RCRA hazardous waste landfill.

Under civil and criminal penalties of law for the making or submission of false or fraudulant statements or representations (18 U.S.C. 1001 and 15 U.S.C. 2615), I certify that the information contained in or accompanying this document is true, accurate, and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy, I certify as the company official having supervisory responsibility for the person who, acting under my direct instructions, made the verification that this information is true, accurate, and complete.

Doug McLain

Doug McLain, Facility Manager

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) SWD #30303 Trk #930

Form Approved. OMB No. 2050-0039 Expires 9-30-99

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. OK0000963348 Manifest Document No. BF0666

2. Page 1 of

Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
WILLIAMS GAS PIPELINE ---BUFFALO, OK
13430 WEST 98TH ST BLDG 5, SHAWNEE MISSION, KS 66215

4. Generator's Phone (913) 310-7625

A. State Manifest Document Number

B. State Generator's ID

5. Transporter 1 Company Name: NP ENVIRONMENTAL

6. US EPA ID Number: CAT000624247

C. State Transporter's ID

D. Transporter's Phone: (888) 637-8889

7. Transporter 2 Company Name

8. US EPA ID Number

E. State Transporter's ID

F. Transporter's Phone

9. Designated Facility Name and Site Address
SAFETY-KLEEN(LONE MOUNTAIN)INC
5E & 1N OF JCT 412 & 281
WAYNOKA, OK 73860-9622

10. US EPA ID Number: OKD065438376

G. State Facility's ID

H. Facility's Phone: (580) 697-3500

11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)	HM	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. POLYCHLORINATED BIPHENYLS, 9, NA2315, III, RQ(PCB'S)	RQ	001	DT	EST. 18000	K	NONE
b.						
c.						
d.						

J. Additional Descriptions for Materials Listed Above
Additional EPA Waste Codes: a. b. c. d.

K. Handling Codes for Wastes Listed Above
a. H132 b. c. d. SW3dd00

15. Special Handling Instructions and Additional Information
Approval Numbers a. LN99-0131-06 b. c. d.
Emergency Contact: 913-310-7625
DATE OF REMOVAL FROM SERVICE 08/22/02

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.

If I am a 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 small quantity 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: Danny C Larkey Signature: Danny C Larkey Date: Month 08 Day 22 Year 02

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Kevin Pollak Signature: Kevin Pollak Date: Month 08 Day 22 Year 02

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name: Signature: Date: Month Day Year

19. Discrepancy Indication Space
Sec. 13 - per Mark Sullivan - Mfst. weight is estimated.
Resolve to Lone Mountain Weight 16598. 8/22/02 VS
02-3942

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.
Printed/Typed Name: BER DEANE PECK Signature: Ber Deane Peck Date: Month 08 Day 22 Year 02

GENERATOR TRANSPORTER FACILITY

EPA Form 8700-22 (Rev. 9-88) previous editions obsolete

SAFETY-KLEEN CORP.

90290 (Rev 11/98) 6

ORIGINAL - RETURN TO GENERATOR

reviewing instructions, gathering data, and completing and reviewing the form. Send comments regarding the burden estimate, including suggestions for reducing this burden, to: Chief, Information Policy Branch, PM-223, U.S. Environmental Protection Agency, 401 M Street, SW, Washington, DC 20460; and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, DC 20503.

INSTRUCTIONS FOR COMPLETION OF THIS FORM, REFER CODE OF FEDERAL REGULATIONS 40 PART 262.20

PCB WASTE - CERTIFICATE OF DISPOSAL

Safety-Kleen (Lone and Grassy Mountain), Inc.
Lone Mountain Facility
Route 2, Box 170
Waynoka, OK 73860
EPA ID # - OKD065438376

As required by 40 CFR 761.218, we are providing this Certificate of Disposal to WILLIAMS GAS PIPELINE -BUFFALO, EPA ID # OK0000963348 to confirm that

LINE	PROFILE No.	WASTE NAME	WEIGHT Kg	TYPE	CNTNRS	DISPOSED
1/A	LM99-0131-06	3006068 PCB SOIL & DEBRIS	16598.64	BULK	1	08/22/02

shipped on manifest number OK0000963348-BF066 was/were disposed in a RCRA hazardous waste landfill.

Under civil and criminal penalties of law for the making or submission of false or fraudulant statements or representations (18 U.S.C. 1001 and 15 U.S.C. 2615), I certify that the information contained in or accompanying this document is true, accurate, and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy, I certify as the company official having supervisory responsibility for the person who, acting under my direct instructions, made the verification that this information is true, accurate, and complete.

Doug McLain

Doug McLain, Facility Manager

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039 Expires 9-30-99

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. OK0000963348 | Manifest Document No. BF 067 | 2. Page 1 of 1 | Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
WILLIAMS GAS PIPELINE ---BUFFALO, OK
13430 WEST 98TH ST BLDG 5, SHAWNEE MISSION, KS 66215

4. Generator's Phone (913) 310-7625

A. State Manifest Document Number

B. State Generator's ID

5. Transporter 1 Company Name: MP ENVIRONMENTAL

6. US EPA ID Number: CAT000624247

C. State Transporter's ID

D. Transporter's Phone: (888) 637-8089

7. Transporter 2 Company Name

8. US EPA ID Number

E. State Transporter's ID

F. Transporter's Phone

9. Designated Facility Name and Site Address
SAFETY-KLEEN(LONE MOUNTAIN)INC
5E & 1N OF JCT 412 & 281
WAYNOKA, OK 73860-9622

10. US EPA ID Number: OKD065438376

G. State Facility's ID

H. Facility's Phone: (580) 697-3500

11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)	HM		12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a.	RQ	POLYCHLORINATED BIPHENYLS, 9, NA2315, III, RQ(PCB'S)	001	DT	EST. 18000	K	NONE
b.							
c.							
d.							

J. Additional Descriptions for Materials Listed Above
Additional EPA Waste Codes a. b. c. d.

K. Handling Codes for Wastes Listed Above
a. H132
b.
c.
d.

SW37720

15. Special Handling Instructions and Additional Information
Approval Numbers a. LM99-0131-06 b. c. d.

Emergency Contact: 913-310-7625

DATE OF REMOVAL FROM SERVICE 08/22/02

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.

If I am a 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 small quantity 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: Danny L Larkey | Signature: Danny L Larkey | Date: Month 08 Day 22 Year 02

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: Rinnie Stanley | Signature: [signature] | Date: Month 08 Day 22 Year 02

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name | Signature | Date: Month Day Year

19. Discrepancy Indication Space

02-3941

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.

Printed/Typed Name: BER DEANE PECK | Signature: Ber Deane Peck | Date: Month 08 Day 22 Year 02

GENERATOR / TRANSPORTER / FACILITY

EPA Form 8700-22 (Rev. 9-88) previous editions obsolete

SAFETY-KLEEN CORP.

90290 (Rev 11/98) 6

ORIGINAL - RETURN TO GENERATOR

INSTRUCTIONS FOR COMPLETION OF THIS FORM. REFER CODE OF FEDERAL REGULATIONS 40 PART 262.20

reviewing instructions, gathering data, and completing and reviewing the form. Send comments regarding the burden estimate, including suggestions for reducing this burden, to: Chief, Information Policy Branch, PM-223, U.S. Environmental Protection Agency, 401 M Street, SW, Washington, DC 20460; and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, DC 20503.

PCB WASTE - CERTIFICATE OF DISPOSAL

Safety-Kleen (Lone and Grassy Mountain), Inc.
Lone Mountain Facility
Route 2, Box 170
Waynoka, OK 73860
EPA ID # - OKD065438376

As required by 40 CFR 761.218, we are providing this Certificate of Disposal to WILLIAMS GAS PIPELINE -BUFFALO, EPA ID # OK0000963348 to confirm that

LINE	PROFILE No.	WASTE NAME	WEIGHT Kg	TYPE	CNTNRS	DISPOSED
1/A	LM99-0131-06	3006068 PCB SOIL & DEBRIS	17106.58	BULK	1	08/22/02

shipped on manifest number OK0000963348-BF067 was/were disposed in a RCRA hazardous waste landfill.

Under civil and criminal penalties of law for the making or submission of false or fraudulant statements or representations (18 U.S.C. 1001 and 15 U.S.C. 2615), I certify that the information contained in or accompanying this document is true, accurate, and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy, I certify as the company official having supervisory responsibility for the person who, acting under my direct instructions, made the verification that this information is true, accurate, and complete.

Doug McLain

Doug McLain, Facility Manager

50301

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039 Expires 9-30-99

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. 0 K 0 0 0 0 9 6 3 3 4 8

Manifest Document No. BF 068

2. Page 1 of 1

Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
WILLIAMS GAS PIPELINE ---BUFFALO, OK
13430 WEST 98TH ST BLDG 5, SHAWNEE MISSION, KS 66215

4. Generator's Phone (913) 310-7625

A. State Manifest Document Number

B. State Generator's ID

5. Transporter 1 Company Name
NP ENVIRONMENTAL

6. US EPA ID Number
C A T 0 0 0 6 2 4 2 4 7

C. State Transporter's ID

D. Transporter's Phone (888) 637-8889

7. Transporter 2 Company Name

8. US EPA ID Number

E. State Transporter's ID

F. Transporter's Phone

9. Designated Facility Name and Site Address
SAFETY-KLEEN(LONE MOUNTAIN)INC
5E & 1N OF JCT 412 & 281
WAYNOKA, OK 73860-9622

10. US EPA ID Number
O K D 0 6 5 4 3 8 3 7 6

G. State Facility's ID

H. Facility's Phone (580) 697-3500

11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)	HM		12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a.	R Q	POLYCHLORINATED BIPHENYLS, 9, NA2315, III, RQ(PCB'S)	0 0 1	D T	EST. 18000	K	N O N E
b.							
c.							
d.							

J. Additional Descriptions for Materials Listed Above
Additional RCRA Waste Codes a. b. c. d.

K. Handling Codes for Wastes Listed Above
a. H132
b.
c.
d. SW41320

15. Special Handling Instructions and Additional Information
Approval Numbers a. LN99-0131-06 b. c. d.
Emergency Contact: 913-310-7625
DATE OF REMOVAL FROM SERVICE 08/22/02

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.

If I am a 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 small quantity 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: Danny L Clarkey — Signature: Danny L Clarkey — Date (Month Day Year): 08 22 02

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: TOM LEMKE — Signature: Tom Lemke — Date (Month Day Year): 08 22 02

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name — Signature — Date (Month Day Year)

19. Discrepancy Indication Space
02-3943

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.

Printed/Typed Name: BERDEANE PECK — Signature: Berdeane Peck — Date (Month Day Year): 08 22 02

GENERATOR / TRANSPORTER / FACILITY

EPA Form 8700-22 (Rev. 9-88) previous editions obsolete

SAFETY-KLEEN CORP.

90290 (Rev 11/98) 6

ORIGINAL - RETURN TO GENERATOR

INSTRUCTIONS FOR COMPLETION OF THIS FORM, REFER CODE OF FEDERAL REGULATIONS 40 PART 262.20

reviewing instructions, gathering data, and completing and reviewing the form. Send comments regarding the burden estimate, including suggestions for reducing this burden, to: Chief, Information Policy Branch, PM-223, U.S. Environmental Protection Agency, 401 M Street, SW, Washington, DC 20460; and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, DC 20503.

PCB WASTE - CERTIFICATE OF DISPOSAL

Safety-Kleen (Lone and Grassy Mountain), Inc.
Lone Mountain Facility
Route 2, Box 170
Waynoka, OK 73860
EPA ID # - OKD065438376

As required by 40 CFR 761.218, we are providing this Certificate of Disposal to WILLIAMS GAS PIPELINE -BUFFALO, EPA ID # OK0000963348 to confirm that

LINE	PROFILE No.	WASTE NAME	WEIGHT Kg	TYPE	CNTNRS	DISPOSED
1/A	LM99-0131-06	3006068 PCB SOIL & DEBRIS	18739.23	BULK	1	08/22/02

shipped on manifest number OK0000963348-BF068 was/were disposed in a RCRA hazardous waste landfill.

Under civil and criminal penalties of law for the making or submission of false or fraudulant statements or representations (18 U.S.C. 1001 and 15 U.S.C. 2615), I certify that the information contained in or accompanying this document is true, accurate, and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy, I certify as the company official having supervisory responsibility for the person who, acting under my direct instructions, made the verification that this information is true, accurate, and complete.

Doug McLain

Doug McLain, Facility Manager

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039 Expires 9-30-99

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: OK0000963348
Manifest Document No.: BF069
2. Page 1 of 1
Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
WILLIAMS GAS PIPELINE ---BUFFALO, OK
13430 WEST 98TH ST BLDG 5, SHAWNEE MISSION, KS 66215
4. Generator's Phone (913) 310-7625

A. State Manifest Document Number
B. State Generator's ID

5. Transporter 1 Company Name: HP ENVIRONMENTAL
6. US EPA ID Number: CAT000624247
C. State Transporter's ID
D. Transporter's Phone: (888) 637-8009

7. Transporter 2 Company Name
8. US EPA ID Number
E. State Transporter's ID
F. Transporter's Phone

9. Designated Facility Name and Site Address
SAFETY-KLEEN(LONE MOUNTAIN)INC
5E & 1N OF JCT 412 & 281
WAYNOKA, OK 73860-9622
10. US EPA ID Number: OKD065438376
G. State Facility's ID
H. Facility's Phone: (580) 697-3500

	11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a.	HM RQ POLYCHLORINATED BIPHENYLS, 9, NA2315, III, RQ(PCB'S)	001	DT	EST. 18000	K	NONE
b.						
c.						
d.						

J. Additional Descriptions for Materials Listed Above
Additional EPA Waste Codes a. b. c. d.

K. Handling Codes for Wastes Listed Above
a. H132
b.
c.
d.
SW 40860

15. Special Handling Instructions and Additional Information
Approval Numbers a. LM99-0131-06 b. c. d.
Emergency Contact: 913-310-7625
DATE OF REMOVAL FROM SERVICE 08/22/02

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.

If I am a 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 small quantity 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: Danny L Larkey
Signature: Danny L Larkey
Date: Month 08 Day 22 Year 02

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Lean McDaniels
Signature: Lean McDaniels
Date: Month 08 Day 22 Year 02

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name
Signature
Date: Month Day Year

19. Discrepancy Indication Space
02-3944

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.
Printed/Typed Name: BER DEANE PECK
Signature: Ber Deane Peck
Month 08 Day 22 Year 02

GENERATOR / TRANSPORTER / FACILITY

EPA Form 8700-22 (Rev. 9-88) previous editions obsolete

SAFETY-KLEEN CORP.

90290 (Rev 11/98) 6

ORIGINAL - RETURN TO GENERATOR

reviewing instructions, gathering data, and completing and reviewing the form. Send comments regarding the burden estimate, including suggestions for reducing this burden, to: Chief, Information Policy Branch, PM-223, U.S. Environmental Protection Agency, 401 M Street, SW, Washington, DC 20460; and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, DC 20503.

INSTRUCTIONS FOR COMPLETION OF THIS FORM, REFER CODE OF FEDERAL REGULATIONS 40 PART 262.20

PCB WASTE - CERTIFICATE OF DISPOSAL

Safety-Kleen (Lone and Grassy Mountain), Inc.
Lone Mountain Facility
Route 2, Box 170
Waynoka, OK 73860
EPA ID # - OKD065438376

As required by 40 CFR 761.218, we are providing this Certificate of Disposal to WILLIAMS GAS PIPELINE -BUFFALO, EPA ID # OK0000963348 to confirm that

LINE	PROFILE No.	WASTE NAME	WEIGHT Kg	TYPE	CNTNRS	DISPOSED
1/A	LM99-0131-06	3006068 PCB SOIL & DEBRIS	18530.61	BULK	1	08/22/02

shipped on manifest number OK0000963348-BF069 was/were disposed in a RCRA hazardous waste landfill.

Under civil and criminal penalties of law for the making or submission of false or fraudulant statements or representations (18 U.S.C. 1001 and 15 U.S.C. 2615), I certify that the information contained in or accompanying this document is true, accurate, and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy, I certify as the company official having supervisory responsibility for the person who, acting under my direct instructions, made the verification that this information is true, accurate, and complete.

Doug McLain

Doug McLain, Facility Manager

SWD 50220

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039 Expires 9-30-99

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. OKD000963348
Manifest Document No. BF 070
2. Page 1 of 1

Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
WILLIAMS GAS PIPELINE ---BUFFALO, OK
13430 WEST 98TH ST BLDG 5, SHAWNEE MISSION, KS 66215

4. Generator's Phone (913) 310-7625

A. State Manifest Document Number
B. State Generator's ID

5. Transporter 1 Company Name
NP ENVIRONMENTAL
6. US EPA ID Number CAT000624247

C. State Transporter's ID
D. Transporter's Phone (888) 637-8889

7. Transporter 2 Company Name
8. US EPA ID Number

E. State Transporter's ID
F. Transporter's Phone

9. Designated Facility Name and Site Address
SAFETY-KLEEN(LONE MOUNTAIN)INC
5E & 1N OF JCT 412 & 281
WAYNOKA, OK 73860-9622
10. US EPA ID Number OKD065438376

G. State Facility's ID
H. Facility's Phone (580) 697-3500

	11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a.	RQ POLYCHLORINATED BIPHENYLS, 9, NA2315, III, RQ(PCB'S)	001	DT	EST. 18000	K	NONE
b.						
c.						
d.						

J. Additional Descriptions for Materials Listed Above
Additional EPA Waste Codes a. b. c. d.

K. Handling Codes for Wastes Listed Above
a. H132 b. c. d. SW 53080

15. Special Handling Instructions and Additional Information
Approval Numbers a. 1N99-0131-06 b. c. d.
Emergency Contact: 913-310-7625
DATE OF REMOVAL FROM SERVICE 08/22/02

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.

If I am a 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 small quantity 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: Danny C Carkey
Signature: Danny C Carkey
Date: Month 08 Day 22 Year 02

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: DARIN CLAPPER
Signature: Clapper
Date: Month 8 Day 22 Year 02

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name:
Signature:
Date: Month Day Year

19. Discrepancy Indication Space
Sec. 13 - per Mark Sullivan - Mfst. weight is estimated.
Resolve to Lone Mountain Weight 24072. 8/22/02 VS 02-3949

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.
Printed/Typed Name: BERDEANE PECK
Signature: Berdeane Peck
Date: Month 08 Day 22 Year 02

GENERATOR / TRANSPORTER / FACILITY

EPA Form 8700-22 (Rev. 9-88) previous editions obsolete

SAFETY-KLEEN CORP.

90290 (Rev 11/98) 6

ORIGINAL - RETURN TO GENERATOR

reviewing instructions, gathering data, and completing and reviewing the form. Send comments regarding the burden estimate, including suggestions for reducing this burden, to: Chief, Information Policy Branch, PM-223, U.S. Environmental Protection Agency, 401 M Street, SW, Washington, DC 20460; and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, DC 20503.

INSTRUCTIONS FOR COMPLETING THIS FORM: DEFINED CODES AND DESCRIPTIONS IS PART 262.20

PCB WASTE - CERTIFICATE OF DISPOSAL

Safety-Kleen (Lone and Grassy Mountain), Inc.
Lone Mountain Facility
Route 2, Box 170
Waynoka, OK 73860
EPA ID # - OKD065438376

As required by 40 CFR 761.218, we are providing this Certificate of Disposal to WILLIAMS GAS PIPELINE -BUFFALO, EPA ID # OK0000963348 to confirm that

LINE	PROFILE No.	WASTE NAME	WEIGHT Kg	TYPE	CNTNRS	DISPOSED
1/A	LM99-0131-06	3006068 PCB SOIL & DEBRIS	24072.56	BULK	1	08/22/02

shipped on manifest number OK0000963348-BF070 was/were disposed in a RCRA hazardous waste landfill.

Under civil and criminal penalties of law for the making or submission of false or fraudulant statements or representations (18 U.S.C. 1001 and 15 U.S.C. 2615), I certify that the information contained in or accompanying this document is true, accurate, and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy, I certify as the company official having supervisory responsibility for the person who, acting under my direct instructions, made the verification that this information is true, accurate, and complete.

Doug McLain

Doug McLain, Facility Manager

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039 Expires 9-30-99

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. OK0000963348

Manifest Document No. BF 071

2. Page 1 of

Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
WILLIAMS GAS PIPELINE ---BUFFALO, OK
13430 WEST 98TH ST BLDG 5, SHAWNEE MISSION, KS 66215

4. Generator's Phone (913) 310-7625

A. State Manifest Document Number

B. State Generator's ID

5. Transporter 1 Company Name: MP ENVIRONMENTAL

6. US EPA ID Number: CAT000624247

C. State Transporter's ID

D. Transporter's Phone: (888) 637-8889

7. Transporter 2 Company Name

8. US EPA ID Number

E. State Transporter's ID

F. Transporter's Phone

9. Designated Facility Name and Site Address
SAFETY-KLEEN(LONE MOUNTAIN)INC
5E & 1N OF JCT 412 & 281
WAYNOKA, OK 73860-9622

10. US EPA ID Number: OKD065438376

G. State Facility's ID

H. Facility's Phone: (580) 697-3500

11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)	HM		12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a.	RQ	POLYCHLORINATED BIPHENYLS, 9, NA2315, III, RQ(PCB'S)	001	DT	EST. 18000	K	NONE
b.							
c.							
d.							

J. Additional Descriptions for Materials Listed Above
Additional EPA Waste Codes a. b. c. d.
TN 919
SW0-50315

K. Handling Codes for Wastes Listed Above
a. H132
b.
c.
d.
SW46840

15. Special Handling Instructions and Additional Information
Approval Numbers a. LM99-0131-06 b. c. d.
Emergency Contact: 913-310-7625

DATE OF REMOVAL FROM SERVICE 08/22/02

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.

If I am a 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 small quantity 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: Danny L Larkey
Signature: Danny L Larkey
Date: Month 08 Day 22 Year 02

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Allyn D Moulan
Signature: Allyn D Moulan
Date: Month 08 Day 22 Year 02

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name
Signature
Date: Month Day Year

19. Discrepancy Indication Space
Sec. 13 - per Mark Sullivan - Mfst. weight is estimated.
Resolve to Lone Mountain Weight 21242 . 8/22/02 VS
02-3950

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.
Printed/Typed Name: BERDEANE PECK
Signature: BerDeane Peck
Month 08 Day 22 Year 02

GENERATOR

TRANSPORTER

FACILITY

EPA Form 8700-22 (Rev. 9-88) previous editions obsolete

SAFETY-KLEEN CORP.

90290 (Rev 11/98) 6

ORIGINAL - RETURN TO GENERATOR

reviewing instructions, gathering data, and completing and reviewing the form. Send comments regarding the burden estimate, including suggestions for reducing this burden, to: Chief, Information Policy Branch, PM-223, U.S. Environmental Protection Agency, 401 M Street, SW, Washington, DC 20460; and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, DC 20503.

INSTRUCTIONS FOR COMPLETION OF THIS FORM. REFER CODE OF FEDERAL REGULATIONS 40 PART 262.20

PCB WASTE - CERTIFICATE OF DISPOSAL

Safety-Kleen (Lone and Grassy Mountain), Inc.
Lone Mountain Facility
Route 2, Box 170
Waynoka, OK 73860
EPA ID # - OKD065438376

As required by 40 CFR 761.218, we are providing this Certificate of Disposal to WILLIAMS GAS PIPELINE -BUFFALO, EPA ID # OK0000963348 to confirm that

LINE	PROFILE No.	WASTE NAME	WEIGHT Kg	TYPE	CNTNRS	DISPOSED
1/A	LM99-0131-06	3006068 PCB SOIL & DEBRIS	21242.63	BULK	1	08/22/02

shipped on manifest number OK0000963348-BF071 was/were disposed in a RCRA hazardous waste landfill.

Under civil and criminal penalties of law for the making or submission of false or fraudulant statements or representations (18 U.S.C. 1001 and 15 U.S.C. 2615), I certify that the information contained in or accompanying this document is true, accurate, and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy, I certify as the company official having supervisory responsibility for the person who, acting under my direct instructions, made the verification that this information is true, accurate, and complete.

Doug McLain

Doug McLain, Facility Manager

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039 Expires 9-30-99

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. OK0000963348 | Manifest Document No. BF 072

2. Page 1 of

Information in the shaded areas is not required by Federal law.

3. Generator Name and Mailing Address
WILLIAMS GAS PIPELINE ---BUFFALO, OK
13430 WEST 98TH ST BLDG 5, SHAWNEE MISSION, KS 66215

4. Generator's Phone (913) 310-7625

A. State Manifest Document Number

B. State Generator's ID

5. Transporter 1 Company Name: NP ENVIRONMENTAL

6. US EPA ID Number: CAT000624247

C. State Transporter's ID

D. Transporter's Phone (888) 637-8889

7. Transporter 2 Company Name

8. US EPA ID Number

E. State Transporter's ID

F. Transporter's Phone

9. Designated Facility Name and Site Address
SAFETY-KLEEN(LONE MOUNTAIN)INC
5E & 1N OF JCT 412 & 281
WAYNOKA, OK 73860-9622

10. US EPA ID Number: OKD065438376

G. State Facility's ID

H. Facility's Phone (580) 697-3500

11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)	HM	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. POLYCHLORINATED BIPHENYLS, 9, NA2315, III, RQ(PCB'S)	RQ	001	DT	EST. 18000	K	NONE
b.						
c.						
d.						

J. Additional Descriptions for Materials Listed Above
Additional RCRA Waste Codes a. b. c. d.

K. Handling Codes for Wastes Listed Above
a. H132 b. c. d. SW 43980

15. Special Handling Instructions and Additional Information
Approval Numbers a. LN99-0131-06 b. c. d.
Emergency Contact: 913-310-7625
DATE OF REMOVAL FROM SERVICE 08/22/02

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.

If I am a 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 small quantity 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: Danny L Larkey | Signature: Danny L Larkey | Date: Month 08 Day 22 Year 02

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: Steve Etherton | Signature | Date: Month 08 Day 22 Year 02

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name | Signature | Date: Month Day Year

19. Discrepancy Indication Space
02-3951

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.

Printed/Typed Name: BERDEANE PECK | Signature: Ber Deane Peck | Date: Month 08 Day 22 Year 02

GENERATOR — TRANSPORTER — FACILITY

EPA Form 8700-22 (Rev. 9-88) previous editions obsolete

SAFETY-KLEEN CORP.

90290 (Rev 11/98) 6

ORIGINAL - RETURN TO GENERATOR

reviewing instructions, gathering data, and completing and reviewing the form. Send comments regarding the burden estimate, including suggestions for reducing this burden, to: Chief, Information Policy Branch, PM-223, U.S. Environmental Protection Agency, 401 M Street, SW, Washington, DC 20460; and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, DC 20503.

PCB WASTE - CERTIFICATE OF DISPOSAL

Safety-Kleen (Lone and Grassy Mountain), Inc.
Lone Mountain Facility
Route 2, Box 170
Waynoka, OK 73860
EPA ID # - OKD065438376

As required by 40 CFR 761.218, we are providing this Certificate of Disposal to WILLIAMS GAS PIPELINE -BUFFALO, EPA ID # OK0000963348 to confirm that

LINE	PROFILE No.	WASTE NAME	WEIGHT Kg	TYPE	CNTNRS	DISPOSED
1/A	LM99-0131-06	3006068 PCB SOIL & DEBRIS	19945.58	BULK	1	08/22/02

shipped on manifest number OK0000963348-BF072 was/were disposed in a RCRA hazardous waste landfill.

Under civil and criminal penalties of law for the making or submission of false or fraudulant statements or representations (18 U.S.C. 1001 and 15 U.S.C. 2615), I certify that the information contained in or accompanying this document is true, accurate, and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy, I certify as the company official having supervisory responsibility for the person who, acting under my direct instructions, made the verification that this information is true, accurate, and complete.

Doug McLain

Doug McLain, Facility Manager

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039 Expires 9-30-99

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: OK0000963348
Manifest Document No.: BF 073
2. Page 1 of 1
Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
WILLIAMS GAS PIPELINE ---BUFFALO, OK
13430 WEST 98TH ST BLDG 5, SHAWNEE MISSION, KS 66215
4. Generator's Phone (913) 310-7625

A. State Manifest Document Number
B. State Generator's ID

5. Transporter 1 Company Name: NP ENVIRONMENTAL
6. US EPA ID Number: CAT000624247
C. State Transporter's ID
D. Transporter's Phone: (888) 637-8009

7. Transporter 2 Company Name
8. US EPA ID Number
E. State Transporter's ID
F. Transporter's Phone

9. Designated Facility Name and Site Address
SAFETY-KLEEN(LONE MOUNTAIN)INC
5E & 1N OF JCT 412 & 281
WAYNOKA, OK 73860-9622
10. US EPA ID Number: OKD065438376
G. State Facility's ID
H. Facility's Phone: (580) 697-3500

11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)	HM		12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a.	RQ	POLYCHLORINATED BIPHENYLS, 9, NA2315, III, RQ(PCB'S)	001	DT	EST. 18000	K	NONE
b.							
c.							
d.							

J. Additional Descriptions for Materials Listed Above
Additional EPA Waste Codes a. b. c. d.

K. Handling Codes for Wastes Listed Above
a. H132
b.
c.
d.
SW 48460

15. Special Handling Instructions and Additional Information
Approval Numbers a. LM99-0131-06 b. c. d.
Emergency Contact: 913-310-7625
DATE OF REMOVAL FROM SERVICE 08/22/02

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.

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Printed/Typed Name: Danny L Larkey
Signature: Danny L Larkey
Date: Month 08 Day 22 Year 02

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: STONY AVANTS
Signature: Stony Avants
Date: Month 08 Day 22 Year 02

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name
Signature
Date: Month Day Year

19. Discrepancy Indication Space
Sec. 13 - per Mark Sullivan - Mfst. weight is estimated.
Resolve to Lone Mountain Weight 21977 . 8/22/02 VS
02-3953

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.
Printed/Typed Name: BERDEANE PECK
Signature: BerDeane Peck
Date: Month 08 Day 22 Year 02

GENERATOR / TRANSPORTER / FACILITY

EPA Form 8700-22 (Rev. 9-88) previous editions obsolete

SAFETY-KLEEN CORP.

90290 (Rev 11/98) 6

ORIGINAL - RETURN TO GENERATOR

INSTRUCTIONS FOR COMPLETION OF THIS FORM. REFER CODE OF FEDERAL REGULATIONS 40 PART 262.20

reviewing instructions, gathering data, and completing and reviewing the form. Send comments regarding the burden estimate, including suggestions for reducing this burden, to: Chief, Information Policy Branch, PM-223, U.S. Environmental Protection Agency, 401 M Street, SW, Washington, DC 20460; and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, DC 20503.

PCB WASTE - CERTIFICATE OF DISPOSAL

Safety-Kleen (Lone and Grassy Mountain), Inc.
Lone Mountain Facility
Route 2, Box 170
Waynoka, OK 73860
EPA ID # - OKD065438376

As required by 40 CFR 761.218, we are providing this Certificate of Disposal to WILLIAMS GAS PIPELINE -BUFFALO, EPA ID # OK0000963348 to confirm that

LINE	PROFILE No.	WASTE NAME	WEIGHT Kg	TYPE	CNTNRS	DISPOSED
1/A	LM99-0131-06	3006068 PCB SOIL & DEBRIS	21977.32	BULK	1	08/22/02

shipped on manifest number OK0000963348-BF073 was/were disposed in a RCRA hazardous waste landfill.

Under civil and criminal penalties of law for the making or submission of false or fraudulant statements or representations (18 U.S.C. 1001 and 15 U.S.C. 2615), I certify that the information contained in or accompanying this document is true, accurate, and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy, I certify as the company official having supervisory responsibility for the person who, acting under my direct instructions, made the verification that this information is true, accurate, and complete.

Doug McLain

Doug McLain, Facility Manager

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039 Expires 9-30-99

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. OK0000963348 Manifest Document No. BF 074

2. Page 1 of

Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
WILLIAMS GAS PIPELINE ---BUFFALO, OK
13430 WEST 98TH ST BLDG 5, SHAWNEE MISSION, KS 66215

4. Generator's Phone (913) 310-7625

A. State Manifest Document Number

B. State Generator's ID

5. Transporter 1 Company Name: NF ENVIRONMENTAL

6. US EPA ID Number: CAT000624247

C. State Transporter's ID

D. Transporter's Phone: (888) 637-8889

7. Transporter 2 Company Name

8. US EPA ID Number

E. State Transporter's ID

F. Transporter's Phone

9. Designated Facility Name and Site Address
SAFETY-KLEEN(LONE MOUNTAIN)INC
5E & 1N OF JCT 412 & 281
WAYNOKA, OK 73860-9622

10. US EPA ID Number: OKD065438376

G. State Facility's ID

H. Facility's Phone: (580) 697-3500

	11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)	HM	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a.	POLYCHLORINATED BIPHENYLS, 9, NA2315, III, RQ(PCB'S)	X	001	DT	EST. 18000	K	NONE
b.							
c.							
d.							

J. Additional Descriptions for Materials Listed Above
Additional EPA Waste Codes a. b. c. d.

K. Handling Codes for Wastes Listed Above
a. H132 b. c. d. SW49180

15. Special Handling Instructions and Additional Information
Approval Numbers a. LN99-0131-06 b. c. d.
Emergency Contact: 913-310-7625
DATE OF REMOVAL FROM SERVICE 08/22/02

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Printed/Typed Name: Danny Clarkey Signature: Danny Clarkey Date: Month 08 Day 22 Year 02

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Rinnie Stanley Signature: Rinnie Stanley Date: Month 08 Day 22 Year 02

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name: Signature: Date: Month Day Year

19. Discrepancy Indication Space
Sec. 13 - per Mark Sullivan - Mfst. weight is estimated.
Resolve to Lone Mountain Weight 22303 . 8/22/02 VS 02-3954

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.
Printed/Typed Name: BERDEANE PECK Signature: Ber Deane Peck Date: Month 08 Day 22 Year 02

EPA Form 8700-22 (Rev. 9-88) previous editions obsolete

SAFETY-KLEEN CORP.

90290 (Rev 11/98) 6

ORIGINAL - RETURN TO GENERATOR

GENERATOR

TRANSPORTER

FACILITY

reviewing instructions, gathering data, and completing and reviewing the form. Send comments regarding the burden estimate, including suggestions for reducing this burden, to: Chief, Information Policy Branch, PM-223, U.S. Environmental Protection Agency, 401 M Street, SW, Washington, DC 20460; and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, DC 20503.

INSTRUCTIONS FOR COMPLETION OF THIS FORM, REFER CODE OF FEDERAL REGULATIONS 40 PART 262.20

PCB WASTE - CERTIFICATE OF DISPOSAL

Safety-Kleen (Lone and Grassy Mountain), Inc.
Lone Mountain Facility
Route 2, Box 170
Waynoka, OK 73860
EPA ID # - OKD065438376

As required by 40 CFR 761.218, we are providing this Certificate of Disposal to WILLIAMS GAS PIPELINE -BUFFALO, EPA ID # OK0000963348 to confirm that

LINE	PROFILE No.	WASTE NAME	WEIGHT Kg	TYPE	CNTNRS	DISPOSED
1/A	LM99-0131-06	3006068 PCB SOIL & DEBRIS	22303.85	BULK	1	08/22/02

shipped on manifest number OK0000963348-BF074 was/were disposed in a RCRA hazardous waste landfill.

Under civil and criminal penalties of law for the making or submission of false or fraudulant statements or representations (18 U.S.C. 1001 and 15 U.S.C. 2615), I certify that the information contained in or accompanying this document is true, accurate, and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy, I certify as the company official having supervisory responsibility for the person who, acting under my direct instructions, made the verification that this information is true, accurate, and complete.

Doug McLain

Doug McLain, Facility Manager

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039 Expires 9-30-99

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. O K 0 0 0 0 9 6 3 3 4 8 — Manifest Document No. BF 075 — 2. Page 1 of 1 — Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
WILLIAMS GAS PIPELINE ---BUFFALO, OK
13430 WEST 98TH ST BLDG 5, SHAWNEE MISSION, KS 66215

4. Generator's Phone (913) 310-7625

A. State Manifest Document Number
B. State Generator's ID

5. Transporter 1 Company Name: KF ENVIRONMENTAL — 6. US EPA ID Number: C A T 0 0 0 6 2 4 2 4 7
C. State Transporter's ID
D. Transporter's Phone (888) 637-8889

7. Transporter 2 Company Name — 8. US EPA ID Number
E. State Transporter's ID
F. Transporter's Phone

9. Designated Facility Name and Site Address
SAFETY-KLEEN(LONE MOUNTAIN)INC
5E & 1N OF JCT 412 & 281
WATONGA, OK 73860-9622
10. US EPA ID Number: O K D 0 6 5 4 3 8 3 7 6
G. State Facility's ID
H. Facility's Phone (580) 697-3500

11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)	HM	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. POLYCHLORINATED BIPHENYLS, 9, NA2315, III, RQ(PCB'S)	RQ	001	DT	EST. 18000	K	NONE
b.						
c.						
d.						

J. Additional Descriptions for Materials Listed Above
Additional EPA Waste Codes: a. b. c. d.

K. Handling Codes for Wastes Listed Above
a. H132 b. c. d. SW42880

15. Special Handling Instructions and Additional Information
Approval Numbers: a. LN99-0131-06 b. c. d.
Emergency Contact: 913-310-7625
DATE OF REMOVAL FROM SERVICE 08/22/02

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.

If I am a 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 small quantity 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: Danny C Larkey — Signature: Danny C Larkey — Date: Month 08 Day 22 Year 02

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Leon McDaniels — Signature: Leon McDaniel — Date: Month 08 Day 22 Year 02

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name — Signature — Date: Month Day Year

19. Discrepancy Indication Space
02-3955

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.
Printed/Typed Name: BERDEANE PECK — Signature: Berdeane Peck — Date: Month 08 Day 22 Year 02

GENERATOR — TRANSPORTER — FACILITY

EPA Form 8700-22 (Rev. 9-88) previous editions obsolete

SAFETY-KLEEN CORP.

90290 (Rev 11/98) 6

ORIGINAL - RETURN TO GENERATOR

reviewing instructions, gathering data, and completing and reviewing the form. Send comments regarding the burden estimate, including suggestions for reducing this burden, to: Chief, Information Policy Branch, PM-223, U.S. Environmental Protection Agency, 401 M Street, SW, Washington, DC 20460; and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, DC 20503.

INSTRUCTIONS FOR COMPLETING THIS FORM, REFER TO CODE OF FEDERAL REGULATIONS 40 PART 262

PCB WASTE - CERTIFICATE OF DISPOSAL

Safety-Kleen (Lone and Grassy Mountain), Inc.
Lone Mountain Facility
Route 2, Box 170
Waynoka, OK 73860
EPA ID # - OKD065438376

As required by 40 CFR 761.218, we are providing this Certificate of Disposal to WILLIAMS GAS PIPELINE -BUFFALO, EPA ID # OK0000963348 to confirm that

LINE	PROFILE No.	WASTE NAME	WEIGHT Kg	TYPE	CNTNRS	DISPOSED
1/A	LM99-0131-06	3006068 PCB SOIL & DEBRIS	19446.71	BULK	1	08/22/02

shipped on manifest number OK0000963348-BF075 was/were disposed in a RCRA hazardous waste landfill.

Under civil and criminal penalties of law for the making or submission of false or fraudulant statements or representations (18 U.S.C. 1001 and 15 U.S.C. 2615), I certify that the information contained in or accompanying this document is true, accurate, and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy, I certify as the company official having supervisory responsibility for the person who, acting under my direct instructions, made the verification that this information is true, accurate, and complete.

Doug McLain

Doug McLain, Facility Manager

50320

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039 Expires 9-30-99

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. OK0000963348
Manifest Document No. BF076
2. Page 1 of 1

Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
WILLIAMS GAS PIPELINE ---BUFFALO, OK
13430 WEST 98TH ST BLDG 5, SHAWNEE MISSION, KS 66215
4. Generator's Phone (913) 310-7625

A. State Manifest Document Number
B. State Generator's ID

5. Transporter 1 Company Name
NF ENVIRONMENTAL
6. US EPA ID Number
CAT000624247

C. State Transporter's ID
D. Transporter's Phone (888) 637-8889

7. Transporter 2 Company Name
8. US EPA ID Number

E. State Transporter's ID
F. Transporter's Phone

9. Designated Facility Name and Site Address
SAFETY-KLEEN(LONE MOUNTAIN)INC
5E & 1N OF JCT 412 & 281
WAYNOKA, OK 73860-9622
10. US EPA ID Number
OKD065438376

G. State Facility's ID
H. Facility's Phone (580) 697-3500

11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)	HM	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. POLYCHLORINATED BIPHENYLS, 9, NA2315, III, RQ(PCB'S)	X	001	DT	EST. 18000	K	NONE
b.						
c.						
d.						

J. Additional Descriptions for Materials Listed Above
Additional EPA Waste Codes a. b. c. d.

K. Handling Codes for Wastes Listed Above
a. H132
b.
c.
d.
SW44940

15. Special Handling Instructions and Additional Information
Approval Numbers a.LK99-0131-06 b. c. d.
Emergency Contact: 913-310-7625
DATE OF REMOVAL FROM SERVICE 08/22/02

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Printed/Typed Name: Danny L Larkey
Signature: Danny L Larkey
Date: Month 08 Day 22 Year 02

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Tom LENKE
Signature: Tom Lenke
Date: Month 08 Day 22 Year 02

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name:
Signature:
Date: Month Day Year

19. Discrepancy Indication Space
Sec. 13 - per Mark Sullivan - Mfst. weight is estimated.
Resolve to Lone Mountain Weight 20380 . 8/22/02 VS
02-3956

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.
Printed/Typed Name: BERDEANE PECK
Signature: BerDeane Peck
Date: Month 08 Day 22 Year 02

GENERATOR

TRANSPORTER

FACILITY

EPA Form 8700-22 (Rev. 9-88) previous editions obsolete

SAFETY-KLEEN CORP.

90290 (Rev 11/98) 6

ORIGINAL - RETURN TO GENERATOR

INSTRUCTIONS FOR COMPLETION OF THIS FORM, REFER CODE OF FEDERAL REGULATIONS 40 PART 262.20

reviewing instructions, gathering data, and completing and reviewing the form. Send comments regarding the burden estimate, including suggestions for reducing this burden, to: Chief, Information Policy Branch, PM-223, U.S. Environmental Protection Agency, 401 M Street, SW, Washington, DC 20460; and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, DC 20503.

PCB WASTE - CERTIFICATE OF DISPOSAL

Safety-Kleen (Lone and Grassy Mountain), Inc.
Lone Mountain Facility
Route 2, Box 170
Waynoka, OK 73860
EPA ID # - OKD065438376

As required by 40 CFR 761.218, we are providing this Certificate of Disposal to WILLIAMS GAS PIPELINE -BUFFALO, EPA ID # OK0000963348 to confirm that

LINE	PROFILE No.	WASTE NAME	WEIGHT Kg	TYPE	CNTNRS	DISPOSED
1/A	LM99-0131-06	3006068 PCB SOIL & DEBRIS	20380.95	BULK	1	08/22/02

shipped on manifest number OK0000963348-BF076 was/were disposed in a RCRA hazardous waste landfill.

Under civil and criminal penalties of law for the making or submission of false or fraudulant statements or representations (18 U.S.C. 1001 and 15 U.S.C. 2615), I certify that the information contained in or accompanying this document is true, accurate, and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy, I certify as the company official having supervisory responsibility for the person who, acting under my direct instructions, made the verification that this information is true, accurate, and complete.

Doug McLain

Doug McLain, Facility Manager

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) 5100 S 0321 Tr/w #920

Form Approved. OMB No. 2050-0039 Expires 9-30-99

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: OK0000963348
Manifest Document No.: BF 077
2. Page 1 of 1
Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
WILLIAMS GAS PIPELINE ---BUFFALO, OK
13430 WEST 98TH ST BLDG 5, SHAWNEE MISSION, KS 66215

4. Generator's Phone (913) 310-7625

A. State Manifest Document Number
B. State Generator's ID

5. Transporter 1 Company Name: NP ENVIRONMENTAL
6. US EPA ID Number: CAT000624247
C. State Transporter's ID
D. Transporter's Phone: (888) 637-8009

7. Transporter 2 Company Name
8. US EPA ID Number
E. State Transporter's ID
F. Transporter's Phone

9. Designated Facility Name and Site Address
SAFETY-KLEEN(LONE MOUNTAIN)INC
5E & 1N OF JCT 412 & 281
WAYNOKA, OK 73860-9622
10. US EPA ID Number: OKD065438376
G. State Facility's ID
H. Facility's Phone: (580) 697-3500

	11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)	HM	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a.	POLYCHLORINATED BIPHENYLS, 9, NA2315, III, RQ(PCB'S)	RQ	001	DT	EST. 18000	K	NONE
b.							
c.							
d.							

J. Additional Descriptions for Materials Listed Above
Additional EPA Waste Codes a. b. c. d.

K. Handling Codes for Wastes Listed Above
a. H132
b.
c.
d.
SW43540

15. Special Handling Instructions and Additional Information
Approval Numbers a. LM99-0131-06 b. c. d.
Emergency Contact: 913-310-7625
DATE OF REMOVAL FROM SERVICE 08/22/02

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.

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Printed/Typed Name: Danny L Larkey
Signature: Danny L Larkey
Date: Month 08 Day 22 Year 02

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Kevin Pollock
Signature: Kevin Pollock
Date: Month 08 Day 22 Year 02

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name
Signature
Date: Month Day Year

19. Discrepancy Indication Space
02-3957

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.
Printed/Typed Name: BERDEANE PECK
Signature: Ber Deane Peck
Month 08 Day 22 Year 02

GENERATOR / TRANSPORTER / FACILITY

EPA Form 8700-22 (Rev. 9-88) previous editions obsolete

SAFETY-KLEEN CORP.

90290 (Rev 11/98) 6

ORIGINAL - RETURN TO GENERATOR

INSTRUCTIONS FOR COMPLETION OF THIS FORM. REFER CODE OF FEDERAL REGULATIONS 40 PART 262.20

reviewing instructions, gathering data, and completing and reviewing the form. Send comments regarding the burden estimate, including suggestions for reducing this burden, to: Chief, Information Policy Branch, PM-223, U.S. Environmental Protection Agency, 401 M Street, SW, Washington, DC 20460; and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, DC 20503.

PCB WASTE - CERTIFICATE OF DISPOSAL

Safety-Kleen (Lone and Grassy Mountain), Inc.
Lone Mountain Facility
Route 2, Box 170
Waynoka, OK 73860
EPA ID # - OKD065438376

As required by 40 CFR 761.218, we are providing this Certificate of Disposal to WILLIAMS GAS PIPELINE -BUFFALO, EPA ID # OK0000963348 to confirm that

LINE	PROFILE No.	WASTE NAME	WEIGHT Kg	TYPE	CNTNRS	DISPOSED
1/A	LM99-0131-06	3006068 PCB SOIL & DEBRIS	19746.03	BULK	1	08/22/02

shipped on manifest number OK0000963348-BF077 was/were disposed in a RCRA hazardous waste landfill.

Under civil and criminal penalties of law for the making or submission of false or fraudulant statements or representations (18 U.S.C. 1001 and 15 U.S.C. 2615), I certify that the information contained in or accompanying this document is true, accurate, and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy, I certify as the company official having supervisory responsibility for the person who, acting under my direct instructions, made the verification that this information is true, accurate, and complete.

Doug McLain

Doug McLain, Facility Manager

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039 Expires 9-30-99

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. OK0000963348

Manifest Document No. BF 078

2. Page 1 of 1

Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
WILLIAMS GAS PIPELINE ---BUFFALO, OK
13430 WEST 98TH ST BLDG 5, SHAWNEE MISSION, KS 66215

4. Generator's Phone (913) 310-7625

A. State Manifest Document Number

B. State Generator's ID

5. Transporter 1 Company Name: NF ENVIRONMENTAL

6. US EPA ID Number: CAT000624247

C. State Transporter's ID

D. Transporter's Phone (888) 637-8889

7. Transporter 2 Company Name

8. US EPA ID Number

E. State Transporter's ID

F. Transporter's Phone

9. Designated Facility Name and Site Address
SAFETY-KLEEN(LONE MOUNTAIN)INC
5E & 1N OF JCT 412 & 281
WAYNOKA, OK 73860-9622

10. US EPA ID Number: OKD065438376

G. State Facility's ID

H. Facility's Phone (580) 697-3500

11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)	HM		12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a.	RQ	POLYCHLORINATED BIPHENYLS, 9, NA2315, III, RQ(PCB'S)	001	DT	EST. 18000	K	NONE
b.							
c.							
d.							

J. Additional Descriptions for Materials Listed Above
Additional EPA Waste Codes a. b. c. d.

K. Handling Codes for Wastes Listed Above
a. H132
b.
c.
d.
SW41640

15. Special Handling Instructions and Additional Information
Approval Numbers a. LM99-0131-06 b. c. d.
Emergency Contact: 913-310-7625
DATE OF REMOVAL FROM SERVICE 08/22/02
SWO# 50306

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.

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Printed/Typed Name: Danny L Larkey | Signature: Danny L Larkey | Date: Month 08 Day 22 Year 02

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Lommik Klar | Signature: Lommik Klar | Date: Month 08 Day 22 Year 02

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name | Signature | Date: Month Day Year

19. Discrepancy Indication Space
02-3958

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.
Printed/Typed Name: Wesley Hope | Signature: Wesley Hope | Month 08 Day 22 Year 02

GENERATOR

TRANSPORTER

FACILITY

EPA Form 8700-22 (Rev. 9-88) previous editions obsolete

SAFETY-KLEEN CORP.

90290 (Rev 11/98) 6

ORIGINAL - RETURN TO GENERATOR

reviewing instructions, gathering data, and completing and reviewing the form. Send comments regarding the burden estimate, including suggestions for reducing this burden, to: Chief, Information Policy Branch, PM-223, U.S. Environmental Protection Agency, 401 M Street, SW, Washington, DC 20460; and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, DC 20503.

INSTRUCTIONS FOR COMPLETION OF THIS FORM. REFER CODE OF FEDERAL REGULATIONS 40 PART 262.20

PCB WASTE - CERTIFICATE OF DISPOSAL

Safety-Kleen (Lone and Grassy Mountain), Inc.
Lone Mountain Facility
Route 2, Box 170
Waynoka, OK 73860
EPA ID # - OKD065438376

As required by 40 CFR 761.218, we are providing this Certificate of Disposal to WILLIAMS GAS PIPELINE -BUFFALO, EPA ID # OK0000963348 to confirm that

LINE	PROFILE No.	WASTE NAME	WEIGHT Kg	TYPE	CNTNRS	DISPOSED
1/A	LM99-0131-06	3006068 PCB SOIL & DEBRIS	18884.35	BULK	1	08/22/02

shipped on manifest number OK0000963348-BF078 was/were disposed in a RCRA hazardous waste landfill.

Under civil and criminal penalties of law for the making or submission of false or fraudulant statements or representations (18 U.S.C. 1001 and 15 U.S.C. 2615), I certify that the information contained in or accompanying this document is true, accurate, and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy, I certify as the company official having supervisory responsibility for the person who, acting under my direct instructions, made the verification that this information is true, accurate, and complete.

Doug McLain

Doug McLain, Facility Manager

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039 Expires 9-30-99

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: OK0000963348
Manifest Document No.: BF079
2. Page 1 of 1
Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
WILLIAMS GAS PIPELINE ---BUFFALO, OK
13430 WEST 98TH ST BLDG 5, SHAWNEE MISSION, KS 66215
4. Generator's Phone (913) 310-7625

A. State Manifest Document Number
B. State Generator's ID

5. Transporter 1 Company Name: NP ENVIRONMENTAL
6. US EPA ID Number: CAT000624247
C. State Transporter's ID
D. Transporter's Phone: (888) 637-8009

7. Transporter 2 Company Name
8. US EPA ID Number
E. State Transporter's ID
F. Transporter's Phone

9. Designated Facility Name and Site Address
SAFETY-KLEEN(LONE MOUNTAIN)INC
5E & 1N OF JCT 412 & 281
WAYNOKA, OK 73860-9622
10. US EPA ID Number: OKD065438376
G. State Facility's ID
H. Facility's Phone: (580) 697-3500

11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)	HM		12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a.	HQ	POLYCHLORINATED BIPHENYLS, 9, NA2315, III, HQ(PCB'S)	001	DT	EST. 18000	K	NONE
b.							
c.							
d.							

J. Additional Descriptions for Materials Listed Above
Additional EPA Waste Codes a. b. c. d.

K. Handling Codes for Wastes Listed Above
a. H132
b.
c.
d.
SW 48220

15. Special Handling Instructions and Additional Information
Approval Numbers a. LM99-0131-06 b. c. d.
Emergency Contact: 913-310-7625
DATE OF REMOVAL FROM SERVICE 08/22/02
SW 50508

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.

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Printed/Typed Name: Danny C Larkey
Signature: Danny L Larkey
Date: Month 08 Day 22 Year 02

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Tim Collier
Signature: Tim Collier
Date: Month 08 Day 22 Year 02

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name
Signature
Date: Month Day Year

19. Discrepancy Indication Space
Sec. 13 - per Mark Sullivan - Mfst. weight is estimated.
Resolve to Lone Mountain Weight 21868 . 8/22/02 VS 02-3959

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.
Printed/Typed Name: Wesley Hope
Signature: Wesley Hope
Month 08 Day 22 Year 02

GENERATOR / TRANSPORTER / FACILITY

EPA Form 8700-22 (Rev. 9-88) previous editions obsolete

SAFETY-KLEEN CORP.

90290 (Rev 11/98) 6

ORIGINAL - RETURN TO GENERATOR

reviewing instructions, gathering data, and completing and reviewing the form. Send comments regarding the burden estimate, including suggestions for reducing this burden, to: Chief, Information Policy Branch, PM-223, U.S. Environmental Protection Agency, 401 M Street, SW, Washington, DC 20460; and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, DC 20503.

INSTRUCTIONS FOR COMPLETION OF THIS FORM. REFER CODE OF FEDERAL REGULATIONS 40 PART 262.20

PCB WASTE - CERTIFICATE OF DISPOSAL

Safety-Kleen (Lone and Grassy Mountain), Inc.
Lone Mountain Facility
Route 2, Box 170
Waynoka, OK 73860
EPA ID # - OKD065438376

As required by 40 CFR 761.218, we are providing this Certificate of Disposal to WILLIAMS GAS PIPELINE -BUFFALO, EPA ID # OK0000963348 to confirm that

LINE	PROFILE No.	WASTE NAME	WEIGHT Kg	TYPE	CNTNRS	DISPOSED
1/A	LM99-0131-06	3006068 PCB SOIL & DEBRIS	21868.48	BULK	1	08/22/02

shipped on manifest number OK0000963348-BF079 was/were disposed in a RCRA hazardous waste landfill.

Under civil and criminal penalties of law for the making or submission of false or fraudulant statements or representations (18 U.S.C. 1001 and 15 U.S.C. 2615), I certify that the information contained in or accompanying this document is true, accurate, and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy, I certify as the company official having supervisory responsibility for the person who, acting under my direct instructions, made the verification that this information is true, accurate, and complete.

Doug McLain

Doug McLain, Facility Manager

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039 Expires 9-30-99

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: OK0000963348
Manifest Document No.: RF080
2. Page 1 of
Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
WILLIAMS GAS PIPELINE ---BUFFALO, OK
13430 WEST 98TH ST BLDG 5, SHAWNEE MISSION, KS 66215
4. Generator's Phone (913) 310-7625

A. State Manifest Document Number
B. State Generator's ID

5. Transporter 1 Company Name: MP ENVIRONMENTAL
6. US EPA ID Number: CAT000624247
C. State Transporter's ID
D. Transporter's Phone (888) 637-8009

7. Transporter 2 Company Name
8. US EPA ID Number
E. State Transporter's ID
F. Transporter's Phone

9. Designated Facility Name and Site Address
SAFETY-KLEEN(LONE MOUNTAIN)INC
5E & 1N OF JCT 412 & 281
WAYNOKA, OK 73860-9622
10. US EPA ID Number: OKD065438376
G. State Facility's ID
H. Facility's Phone (580) 697-3500

11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)	HM		12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a.	RQ	POLYCHLORINATED BIPHENYLS, 9, NA2315, III, RQ(PCB'S)	001	DT	EST. 18,000	K	NONE
b.							
c.							
d.							

J. Additional Descriptions for Materials Listed Above
Additional EPA Waste Codes a. b. c. d.

K. Handling Codes for Wastes Listed Above
a. H132 b. c. d.
SW36740

15. Special Handling Instructions and Additional Information
Approval Numbers a. LM99-0131-06 b. c. d.
Emergency Contact: 913-310-7625
DATE OF REMOVAL FROM SERVICE 8-23-02

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Printed/Typed Name: Rusty Howard
Signature: Rusty Howard
Date: Month 8 Day 23 Year 02

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: STONY AVANTS
Signature: Stony Avants
Date: Month 8 Day 23 Year 02

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name
Signature
Date: Month Day Year

19. Discrepancy Indication Space
Sec. 13 - mfst weight estimated - resolve to Lone Mtn weight 16,662 K. 8/26/02 NS
02-3967

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.
Printed/Typed Name: Ber Deane Peck
Signature: Ber Deane Peck
Month 08 Day 23 Year 02

GENERATOR / TRANSPORTER / FACILITY

EPA Form 8700-22 (Rev. 9-88) previous editions obsolete

SAFETY-KLEEN CORP.

90290 (Rev 11/98) 6

ORIGINAL - RETURN TO GENERATOR

INSTRUCTIONS FOR COMPLETION OF THIS FORM. REFER CODE OF FEDERAL REGULATIONS 40 PART 262.20

reviewing instructions, gathering data, and completing and reviewing the form. Send comments regarding the burden estimate, including suggestions for reducing this burden, to: Chief, Information Policy Branch, PM-223, U.S. Environmental Protection Agency, 401 M Street, SW, Washington, DC 20460; and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, DC 20503.

PCB WASTE - CERTIFICATE OF DISPOSAL

Safety-Kleen (Lone and Grassy Mountain), Inc.
Lone Mountain Facility
Route 2, Box 170
Waynoka, OK 73860
EPA ID # - OKD065438376

As required by 40 CFR 761.218, we are providing this Certificate of Disposal to WILLIAMS GAS PIPELINE -BUFFALO, EPA ID # OK0000963348 to confirm that

LINE	PROFILE No.	WASTE NAME	WEIGHT Kg	TYPE	CNTNRS	DISPOSED
1/A	LM99-0131-06	3006068 PCB SOIL & DEBRIS	16662.13	BULK	1	08/23/02

shipped on manifest number OK0000963348-BF080 was/were disposed in a RCRA hazardous waste landfill.

Under civil and criminal penalties of law for the making or submission of false or fraudulant statements or representations (18 U.S.C. 1001 and 15 U.S.C. 2615), I certify that the information contained in or accompanying this document is true, accurate, and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy, I certify as the company official having supervisory responsibility for the person who, acting under my direct instructions, made the verification that this information is true, accurate, and complete.

Doug McLain

Doug McLain, Facility Manager

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039 Expires 9-30-99

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. OK0000963348 Manifest Document No. BF081

2. Page 1 of

Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
WILLIAMS GAS PIPELINE ---BUFFALO, OK
13430 WEST 98TH ST BLDG 5, SHAWNEE MISSION, KS 66215

4. Generator's Phone (913) 310-7625

A. State Manifest Document Number

B. State Generator's ID

5. Transporter 1 Company Name: HP ENVIRONMENTAL

6. US EPA ID Number: CAT000624247

C. State Transporter's ID

D. Transporter's Phone (888) 637-8883

7. Transporter 2 Company Name

8. US EPA ID Number

E. State Transporter's ID

F. Transporter's Phone

9. Designated Facility Name and Site Address
SAFETY-KLEEN(LONE MOUNTAIN)INC
5E & 1N OF JCT 412 & 281
WAYNOKA, OK 73860-9622

10. US EPA ID Number: OKD065438376

G. State Facility's ID

H. Facility's Phone (580) 697-3500

	11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)	HM	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a.	POLYCHLORINATED BIPHENYLS, 9, NA2315, III, RQ(PCB'S)	X Q	001	DT	EST. 18000	K	NONE
b.							
c.							
d.							

J. Additional Descriptions for Materials Listed Above
Additional EPA Waste Codes a. b. c. d.

K. Handling Codes for Wastes Listed Above
a. H132 b. c. d. SW33400

15. Special Handling Instructions and Additional Information
Approval Numbers a. LN99-0131-06 b. c. d.
Emergency Contact: 913-310-7625
DATE OF REMOVAL FROM SERVICE 8-23-02
SWO# 50323 EP# 937

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.

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Printed/Typed Name: Rusty Howard Signature: Rusty Howard Date: Month 8 Day 23 Year 03

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Tim Collins Signature: Tim Collins Date: Month 08 Day 23 Year 02

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name Signature Date: Month Day Year

19. Discrepancy Indication Space
Sec. 13 - Mfst weight estimated - resolve to Lone Mtn weight 15,147K. 8/26/02 02-3971

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.
Printed/Typed Name: BERDEANE PECK Signature: Ber Deane Peck Date: Month 08 Day 23 Year 02

EPA Form 8700-22 (Rev. 9-88) previous editions obsolete

SAFETY-KLEEN CORP.

90290 (Rev 11/98) 6

ORIGINAL - RETURN TO GENERATOR

GENERATOR

TRANSPORTER

FACILITY

reviewing instructions, gathering data, and completing and reviewing the form. Send comments regarding the burden estimate, including suggestions for reducing this burden, to: Chief, Information Policy Branch, PM-223, U.S. Environmental Protection Agency, 401 M Street, SW, Washington, DC 20460; and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, DC 20503.

INSTRUCTIONS FOR COMPLETION OF THIS FORM, BEGIN CODE OF FEDERAL REGULATIONS 40, PART 262.20

PCB WASTE - CERTIFICATE OF DISPOSAL

Safety-Kleen (Lone and Grassy Mountain), Inc.
Lone Mountain Facility
Route 2, Box 170
Waynoka, OK 73860
EPA ID # - OKD065438376

As required by 40 CFR 761.218, we are providing this Certificate of Disposal to WILLIAMS GAS PIPELINE -BUFFALO, EPA ID # OK0000963348 to confirm that

LINE	PROFILE No.	WASTE NAME	WEIGHT Kg	TYPE	CNTNRS	DISPOSED
1/A	LM99-0131-06	3006068 PCB SOIL & DEBRIS	15147.39	BULK	1	08/23/02

shipped on manifest number OK0000963348-BF081 was/were disposed in a RCRA hazardous waste landfill.

Under civil and criminal penalties of law for the making or submission of false or fraudulant statements or representations (18 U.S.C. 1001 and 15 U.S.C. 2615), I certify that the information contained in or accompanying this document is true, accurate, and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy, I certify as the company official having supervisory responsibility for the person who, acting under my direct instructions, made the verification that this information is true, accurate, and complete.

Doug McLain

Doug McLain, Facility Manager

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Form Approved. OMB No. 2050-0039 Expires 9-30-99

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: OK0000963348
Manifest Document No.: BF082
2. Page 1 of 1
Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
WILLIAMS GAS PIPELINE ---BUFFALO, OK
13430 WEST 98TH ST BLDG 5, SHAWNEE MISSION, KS 66215

4. Generator's Phone (913) 310-7625

A. State Manifest Document Number
B. State Generator's ID

5. Transporter 1 Company Name: MP ENVIRONMENTAL
6. US EPA ID Number: CAT000624247
C. State Transporter's ID
D. Transporter's Phone: (888) 637-8009

7. Transporter 2 Company Name
8. US EPA ID Number
E. State Transporter's ID
F. Transporter's Phone

9. Designated Facility Name and Site Address
SAFETY-KLEEN(LONE MOUNTAIN)INC
5E & 1N OF JCT 412 & 281
WAYNOKA, OK 73860-9622
10. US EPA ID Number: OKD065438376
G. State Facility's ID
H. Facility's Phone: (580) 697-3500

11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)	HM		12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a.	RQ	POLYCHLORINATED BIPHENYLS, 9, NA2315, III, RQ(PCB'S)	001	DT	EST 18,000	K	NONE
b.							
c.							
d.							

J. Additional Descriptions for Materials Listed Above
Additional EPA Waste Codes a. b. c. d.
SWO # 50318

K. Handling Codes for Wastes Listed Above
a. M132 b. c. d.
SW37860

15. Special Handling Instructions and Additional Information
Approval Numbers a. LM99-0131-06 b. c. d.
Emergency Contact: 913-310-7625

DATE OF REMOVAL FROM SERVICE 8-23-02

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Printed/Typed Name: Rusty Howard
Signature: Rusty Howard
Date: Month 8 Day 23 Year 02

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: EDWARD E. DIVELBISS
Signature: Edward E. Divelbiss
Date: Month 08 Day 23 Year 02

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name
Signature
Date: Month Day Year

19. Discrepancy Indication Space
02-3968

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.
Printed/Typed Name: BER DEANE PECK
Signature: Ber Deane Peck
Month 08 Day 23 Year 02

GENERATOR / TRANSPORTER / FACILITY

EPA Form 8700-22 (Rev. 9-88) previous editions obsolete

SAFETY-KLEEN CORP.

90290 (Rev 11/98) 6

ORIGINAL - RETURN TO GENERATOR

reviewing instructions, gathering data, and completing and reviewing the form. Send comments regarding the burden estimate, including suggestions for reducing this burden, to: Chief, Information Policy Branch, PM-223, U.S. Environmental Protection Agency, 401 M Street, SW, Washington, DC 20460; and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, DC 20503.

PCB WASTE - CERTIFICATE OF DISPOSAL

Safety-Kleen (Lone and Grassy Mountain), Inc.
Lone Mountain Facility
Route 2, Box 170
Waynoka, OK 73860
EPA ID # - OKD065438376

As required by 40 CFR 761.218, we are providing this Certificate of Disposal to WILLIAMS GAS PIPELINE -BUFFALO, EPA ID # OK0000963348 to confirm that

LINE	PROFILE No.	WASTE NAME	WEIGHT Kg	TYPE	CNTNRS	DISPOSED
1/Q	LM99-0131-06	3006068 PCB SOIL & DEBRIS	17170.07	BULK	1	08/23/02

shipped on manifest number OK0000963348-BF082 was/were disposed in a RCRA hazardous waste landfill.

Under civil and criminal penalties of law for the making or submission of false or fraudulant statements or representations (18 U.S.C. 1001 and 15 U.S.C. 2615), I certify that the information contained in or accompanying this document is true, accurate, and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy, I certify as the company official having supervisory responsibility for the person who, acting under my direct instructions, made the verification that this information is true, accurate, and complete.

Doug McLain

Doug McLain, Facility Manager