THIRD FIVE-YEAR REVIEW REPORT

Missouri Electric Works Site
Cape Girardeau
Cape Girardeau County, Missouri

July, 2014

Prepared By:

United States Environmental Protection Agency
Region 7
Lenexa, Kansas

Approved by: Date:

7-24-14

Cecilia Tapia, Director
Superfund Division
U.S. EPA, Region 7

The following Attachments are available only on CD
Attachment 3

30285245
Superfund

Table of Contents

List of Abbreviations and Acronyms iii
Executive Summary v
Five-Year Review Summary Form vii
I. Introduction 2
II. Site Chronology 3
III. Background 6
Physical Characteristics 6
Land and Resource Use 6
History of Contamination 6
Initial Response 7
Basis for Taking Action 8
IV. Remedial Actions 9
Remedy Selection 9
Remedy Implementation 10
V. Progress Since the Last Five-Year Review 10
VI. Five-Year Review Process 12
Administrative Components 12
Community Involvement 12
Document Review 12
Data Review 12
Site Inspection 13
VII. Technical Assessment 13
VIII. Issues 17
IX. Recommendations and Follow-up Actions 18
X. Protectiveness Statement 18
XI. Next Review 18

Table of Tables

Table 1 – Chronology of Site Events
Table 2 – Status of Recommendations From the Last Five-Year Review
Table 3 – Issues
Table 4 – Recommendations and Follow-up Actions

Table of Figures

Figure 1 – Site Location Map
Figure 2 – Extent of Soil Contamination (OU-1)
Figure 3 – Approximate Groundwater Impact Area
Figure 4 – Wetland Area

Table of Attachments

Attachment 1 – Published Notice of Third FYR Start
Attachment 2 – List of Documents Reviewed
Attachment 3 – Five-Year Review Sampling Trip Report with Analytical Results
Attachment 4 – FYR Site Inspection Checklist
Attachment 5 – Environmental Services Division Technical Assessment Memorandum

List of Abbreviations and Acronyms

ARAR	Applicable or Relevant and Appropriate Requirement
BHHRA	Baseline Human Health Risk Assessment
CD	Consent Decree
CERCLA	Comprehensive Environmental Response, Compensation and Liability Act
C.F.R.	Code of Federal Regulations
COC	contaminants of concern
DOJ	Department of Justice
EISB	Enhanced In Situ Bioremediation
EPA	United States Environmental Protection Agency
ESD	Explanation of Significant Differences
FS	Feasibility Study
FYR	five-year review
IC	Institutional Control
MCL	Maximum Contaminant Level
MDNR	Missouri Department of Natural Resources
MEW	Missouri Electric Works
MEWSC	Missouri Electric Works Steering Committee
MEWSTD	Missouri Electric Works Site Trust Donors
mg/kg	milligram per kilogram
MNA	monitored natural attenuation
NCP	National Oil and Hazardous Substances Pollution Contingency Plan
NPL	National Priorities List
O&M	Operation and Maintenance
OU	Operable Unit
PCB	Polynuclear Biphenyl "Polychlorinated" per previous FYR
ppb	parts per billion
ppm	parts per million
PRP	Potentially Responsible Party
RA	Remedial Action
RD	Remedial Design
RD/RA	Remedial Design/Remedial Action
RI	Remedial Investigation
RI/FS	Remedial Investigation/Feasibility Study
ROD	Record of Decision
TCE	trichloroethylene
TI	Technical Impracticability
TSCA	Toxic Substances Control Act
USGS	United States Geological Survey
VI	vapor intrusion
VOC	volatile organic compound

Executive Summary

The U.S. Environmental Protection Agency has performed the third five-year review (FYR) for the Missouri Electric Works Superfund Site (Site) located in Cape Girardeau, Missouri. This review was initiated in December of 2013 and completed in June of 2014. The former Missouri Electric Works (MEW) facility operated from 1954 until 1982 performing repairs and scrapping of transformers, capacitors and other electric equipment containing polychlorinated biphenyls (PCBs) in oils.

The soil remedy for the Site was selected in the 1990 Record of Decision (ROD) for the soils operable unit (OU-1) included the excavation, processing, and treatment of PCB contaminated soils using thermal desorption technology. After treatment and analysis to confirm that treatment standards had been met, the treated soil was used to backfill the excavated areas. The entire area was capped with a contaminant-free soil. The upper one foot of the cap had organics added to support vegetation. The soil remedy was complete with the acceptance by the EPA of the Soil Remedial Action Report during September 2000. The trigger for the first FYR was the start of remedial action (RA) on-site construction, which occurred June 7, 1999.

The groundwater portion of the remedy at the Site, designated OU-2, has not yet been fully implemented. A focused remedial investigation and feasibility study (RI/FS) for groundwater has been conducted for the site. The EPA issued a second Record of Decision in 2005 for OU-2 which addressed the two groundwater aquifers that had been impacted by contamination from the Site. A technical impracticability waiver for meeting the groundwater cleanup levels (maximum contaminant levels or MCLs), groundwater monitoring and institutional controls (ICs) were selected as components of the remedy for the contaminated groundwater in the fractured bedrock aquifer. Monitoring, ICs, and Enhanced In Situ Bioremediation were selected as components of the remedy for the contaminated groundwater in the alluvium south of the MEW property. A contingent remedy including monitored natural attenuation (MNA) instead of EISB was also specified as an alternative if future data showed that MNA was occurring. These remedies have not yet been implemented. MNA data was collected in 2012-2013 which demonstrated MNA was ongoing, and an explanation of significant differences (ESD) was signed in 2013 which formally selected the contingent MNA remedy for the OU-2 alluvial aquifer.

The site assessment sampling conducted by the EPA in 2014 for this FYR included sampling monitoring wells WSW-1, MW-3, MW-5, MW-11, MW-12 and cluster MW-16A/B/C. These samples were analyzed for PCBs (total and dissolved) and for volatile organic compounds (VOCs). No PCBs were found in the alluvial aquifer wells MW-16A/B/C, but low levels of trichloroethylene (TCE) and daughter compounds were found in this well cluster. PCBs were found in MW-11 (a fractured bedrock aquifer well) on the former MEW site property at a concentration of 2.34 parts per billion (ppb) in the unfiltered sample. VOCs including TCE, benzene, and chlorobenzenes were found in the fractured bedrock aquifer wells.

Construction of new buildings, renovation of the existing building and associated earthmoving and regrading by the site owner on the former MEW property occurred in 2010-2011. The EPA evaluated these activities in 2013 and determined that the remedy was still protective of human health and the environment. Further, the EPA determined that the deed restriction placed on the site prior to implementing the soil remedy was no longer needed. An Environmental Covenant signed by the current property owner (Fronabarger Concreters), the State of Missouri, and the EPA was recorded in March, 2014.

The site assessment sampling conducted by the EPA in 2014 as part of this FYR found PCBs at several locations in soil on the former MEW site and in the ravine leading downhill from the site to the wetlands area, at depths ranging from the surface down to six inches (the maximum depth sampled in these areas), and a maximum concentration of 42 milligrams per kilogram (mg/kg) at six inches in sample UA-05-6".

While there are no current human exposures to contaminated groundwater in the area, the remedies to address contaminated groundwater specified in the 2005 ROD have not yet been implemented due to the extended negotiations with the remaining potentially responsible parties (PRPs) on a Consent Decree to address the fractured bedrock aquifer remedy.

Wetlands adjacent to and downgradient of the site have been designated as OU-3. The site assessment sampling conducted by the EPA in 2014 for this FYR found PCBs (Aroclor-1260) in several locations within the wetlands soils, at depths ranging from the surface down to five feet (the maximum depth sampled in this area), and a maximum concentration of 6.1 mg/kg at 4 feet in sample LA-14-4'. Fish tissue sampling in the pond in the wetlands found PCBs at a concentration of 27 mg/kg. Additional investigation is required this area and an RI/FS is planned for OU-3. A separate Administrative Order with the PRPs to perform an RI/FS is planned.

Five-Year Review Summary Form

SITE IDENTIFICATION		
Site Name: Missouri Electric Works		
EPA ID: MOD980965982		
Region: 7	State: MO	City/County: Cape Girardeau, Cape Girardeau County

SITE STATUS	
NPL Status: Final	
Multiple OUs? Yes	Has the Site achieved construction completion? No

REVIEW STATUS
Lead agency: EPA If "Other Federal Agency" was selected above, enter Agency name:
Author name (Federal or State Project Manager): Dan Gravatt (EPA)
Author affiliation: Remedial Project Manager
Review period: December, 2013 – July, 2014
Date of Site inspection: March 25-27, 2014
Type of review: Statutory
Review number: 3
Triggering action date: 8/14/2009
Due date *(five years after triggering action date)*: 8/14/2014

Five-Year Review Summary Form (continued)

Issues/Recommendations				
OU(s) without Issues/Recommendations Identified in the Five-Year Review:				
OU-3.				
Issues and Recommendations Identified in the Five-Year Review:				
OU(s): OU-2	Issue Category: Monitoring			
	Issue: Insufficient monitoring frequencies for groundwater, fractured bedrock and alluvial aquifers			
	Recommendation: Resolve CD negotiations with PRPs for fractured bedrock RD/RA and O&M; implement fund-lead RD/RA for alluvial aquifer			
Affect Current Protectiveness	Affect Future Protectiveness	Implementing Party	Oversight Party	Milestone Date
No	Yes	EPA / State / PRPs	EPA/State	TBD
OU(s): OU-2	Issue Category: Institutional Controls			
	Issue: City and/or State Institutional Controls may need to be placed to prevent groundwater use in the area.			
	Recommendation: The EPA should request that the City and the State implement appropriate ICs			
Affect Current Protectiveness	Affect Future Protectiveness	Implementing Party	Oversight Party	Milestone Date
No	Yes	City of Cape Girardeau / MDNR	EPA	TBD
OU(s): OU-1	Issue Category: Remedy Performance			
	Issue: Recent surface soil sampling detected PCBs above the 10 ppm cleanup standard specified in the OU-1 ROD near the former MEW building.			
	Recommendation: Additional sampling is required to confirm this detection and delineate the impacted area.			
Affect Current Protectiveness	Affect Future Protectiveness	Implementing Party	Oversight Party	Milestone Date
Yes	Yes	EPA	MDNR	July 31, 2016

Five-Year Review Summary Form (continued)

Protectiveness Statement(s)		
Operable Unit: 01	*Protectiveness Determination:* Protectiveness deferred	*Addendum Due Date (if applicable):* July 31, 2016
Protectiveness Statement: The protectiveness determination for the soil remedy (OU-1) is deferred at this time, due to the recent discovery of PCB concentrations above the 10 ppm cleanup standard in surface soil at one location on the former MEW property. Additional investigation to confirm this result is needed.		
Operable Unit: 02	*Protectiveness Determination:* Protectiveness deferred	*Addendum Due Date (if applicable):* TBD
Protectiveness Statement: The groundwater remedy (OU-2) selected in the 2005 ROD and the 2013 ESD has not yet been implemented. However, there is currently no known use of groundwater from either the fractured bedrock or alluvial aquifers. Institutional controls have been placed on the MEW site. Routine groundwater monitoring is needed. Monitoring is being negotiated with the MEWSTD as part of the work effort pursuant to a consent decree. The protectiveness determination for the groundwater remedy is deferred until the remedy can be fully implemented and post-implementation groundwater data is collected.		

Missouri Electric Works Superfund Site
Cape Girardeau, Missouri
Third Five-Year Review Report

I. Introduction

The purpose of the Five-Year Review (FYR) is to determine whether the remedy at a site is protective of human health and the environment. The methods, findings and conclusions of reviews are documented in FYR reports. In addition, FYR reports identify issues, if any, found during the review, and identify recommendations to address such issues.

The EPA is preparing this Five-Year Review Report pursuant to Section 121(c) of the Comprehensive Environmental Response, Compensation and Liability Act, and the National Oil and Hazardous Substances Pollution Contingency Plan Section 121(c) provides:

If the President selects a remedial action that results in any hazardous substances, pollutants, or contaminants remaining at the site, the President shall review such remedial action no less often than each 5 years after the initiation of such remedial action to assure that human health and the environment are being protected by the remedial action being implemented. In addition, if upon such review it is the judgment of the President that action is appropriate at such site in accordance with section 104 or 106 [of CERCLA], the President shall take or require such action. The President shall report to the Congress a list of facilities for which such review is required, the results of all such reviews, and any actions taken as a result of such reviews.

The EPA has interpreted this requirement further in the NCP; 40 C.F.R. § 300.430(f)(4)(ii) provides:

If a remedial action is selected that results in hazardous substances, pollutants, or contaminants remaining at the site above levels that allow for unlimited use and unrestricted exposure, the lead agency shall review such action no less often than every five years after initiation of the selected remedial action.

The EPA, Region 7, has conducted this FYR of the remedy implemented at the Missouri Electric Works (MEW) Superfund Site, in Cape Girardeau, Missouri. This review was conducted by Remedial Project Managers Dan Gravatt and Greg Bach for the entire site from December 2013 through July 2014. This report documents the results of the review.

This is the third FYR for the Site. The triggering action for this statutory review is completion of the second FYR, which occurred on August 14, 2009. The FYR is required due to the fact that hazardous substances, pollutants or contaminants remain at the site above levels that allow for unlimited use and unrestricted exposure.

The Site is divided into three operable units (OUs). OU1 addresses Site soils. This remedy has been constructed. OU2 addresses Site groundwater. The Record of Decision (ROD) has been signed and some Remedial Design/Remedial Action (RD/RA) activities are underway. OU3 addresses wetlands adjacent to and downgradient of the property. OU3 is in the Remedial Investigation/Feasibility Study (RI/FS) stage. This FYR will evaluate protectiveness at OU1 and OU2.

II. Site Chronology

Table 1 – Chronology of Site Events

Event	Date
Missouri Electric Works (MEW) Site Discovery	10/25/1984
EPA-Lead Expanded Site Investigation Conducted	05/01/1987
Potentially Responsible Parties (PRP) Search Initiated	01/15/1988
PRP Lead Remedial Investigation/Feasibility Study (RI/FS) Initiated	12/31/1988
Site Listed on the National Priorities List (NPL)	02/21/1990
Remedial Investigation (RI) Report Submitted to EPA	06/04/1990
Record of Decision (ROD) Signed	09/28/1990
Special Notice Letters Sent	12/21/1990
Good Faith Offer Received	03/04/1991
PRPs Perform Post-ROD Groundwater Investigation with EPA Oversight	07/06/1991
Remedial Design/Remedial Action (RD/RA) Consent Decree (CD) Negotiations Conclude	09/19/1991
Signed CD Sent to Department of Justice (DOJ) for Lodging in Federal Court	12/30/1991
PRPs Submit Groundwater Investigation Report	01/09/1992
EPA "Approves" Groundwater Report after Review	03/19/1992
Late Parties Signed CD	06/15/1992
DOJ Files Complaint, Lodges CD	06/29/1992
District Court Enters CD	08/29/1994
De minimis Parties Make Payments to MEW Trust and Superfund	09/1994
Appeal Filed by Interveners	10/28/1994
Settling Defendants Submit Information on Thermal Desorbers and Request EPA to Review and Change ROD	10/1994

Event	Date
McLaren-Hart Petitions EPA HQ for National Toxic Substances Control Act (TSCA) Permit Demonstration at MEW Site	10/1994
Explanation of Significant Differences (ESD) to ROD Issued by EPA	02/01/1995
Pilot Study Using Innovative Low Temperature/High Vacuum Thermal Desorber Unit	05/15/1995
8th Circuit Court of Appeals Remands CD to District Court	08/1995
McLaren-Hart Submits Report on Demonstration Test at the MEW Site	06/1996
DOJ Lodges CD (Second Time)	06/29/1996
District Court Re-enters CD	08/14/1996
Interveners Appeal Re-entry of CD	10/07/1996
8th Circuit Court of Appeals Re-affirms District Court's Entry of CD	12/1997
Preliminary Remedial Design (RD) Submitted	10/01/1998
Pre-final RD and Draft Remedial Action Work Plan (RAWP) Submitted	12/22/1998
100% RD and Revised RAWP Submitted	05/19/1999
Remedial Action (RA) On-site Construction Start	06/07/1999
Groundwater RI/FS Start (OU-2)	06/12/2000
Final Inspection	09/19/2000
RA Report (OU-1) Final Approval	09/29/2000
Draft Baseline Human Health Risk Assessment (BHHRA)(OU-2) Submitted	07/28/2004
Draft Groundwater RI Submitted (OU-2)	08/02/2004
Draft Groundwater FS Submitted (OU-2)	07/30/2004
First Five-Year Review (FYR)	09/2004
Final Groundwater RI Submitted	02/11/2005

Event	Date
Ecological Risk Screening Evaluation	06/2005
Final Groundwater FS Submitted (OU-2)	07/05/2005
BHHRA (OU-2) Approval	07/05/2005
ROD (OU-2) Signed	09/28/2005
Expanded Ecological Risk Screening Evaluation	06/2006
Erection of Protective Fence with Signage Around Wetland Pond	02/20/2007
Special Notice Letters for OU-2 and OU-3 Issued	03/2009
Good Faith Offer from Missouri Electric Works Site Donors Trust (MEWSTD)	05/2009
Consent Negotiations Start for CD (OU-2 RD/RA; OU-3 RI/FS & RD/RA)	06/2009
Second FYR	08/2009
Monitored Natural Attenuation (MNA) Sampling in Alluvial Aquifer	2012-2013
Former MEW Property Purchased by Fronabarger Concreters	2010
New Owner Renovates Existing Building and Builds U-Store-It Building	2010-2011
ESD for Alluvial Groundwater Remedy	11/2013
Site Inspection and Sampling for Third FYR	03/2014
Environmental Covenant with Current Site Owner Recorded	03/2014

III. Background

Physical Characteristics

Missouri Electric Works, Inc. (MEW) operated on a 6.4 acre tract adjacent to U.S. Highway 61 (South Kings Highway) in Cape Girardeau. Figure 1 indicates the location of the site within the city limits of Cape Girardeau, Missouri. The site includes all areas which became contaminated with polychlorinated biphenyls (PCBs) originating from MEW's operations. Figure 2 indicates the extent of soil contamination that comprised OU 1. Figure 3 indicates the approximate groundwater impact area. The site is located in a predominantly commercial/industrial area of Cape Girardeau. The area surrounding the site has experienced significant development since the early 1990s when the site was listed on the National Priorities List (NPL).

The site is situated approximately 1.6 miles west of the Mississippi River. It is located in the hills adjacent to the west valley wall of the Mississippi River flood plain. Intermittent run-off channels emanate from the north, south and east boundaries of the site and eventually drain into the Cape LaCroix Creek which is located 0.7 miles east of the site. The Cape LaCroix Creek flows 1.1 miles to the southeast and enters the Mississippi River. The property is bounded on the north by retail and warehouse properties, on the south by a residence, commercial storage and a construction company, and on the east by a warehouse. A wetland is located approximately 700 feet south of the MEW property. Figure 4 indicates the approximate location of the wetland in relation to the MEW property and the city of Cape Girardeau.

Land and Resource Use

MEW purchased the property in 1952. Prior to that, it is believed that the land was used for agricultural purposes. MEW operated an electrical repair, service, and resell business from the location from 1954 to 1992. The facility discontinued operations in 1992 when the principal of MEW died.

In 2008, Mr. C.J. Morrill, president of Contrend Inc., acquired the property through a foreclosure sale. In 2010, the property was purchased by Fronabarger Concreters, which constructed a U-Store-It building on site, renovated the former MEW building on site, and regraded much of the surface of the property in 2011.

The current land use for the surrounding area is predominantly commercial. Soccer fields are located to the east of the site. New business construction continues near the site. It is expected that the land use in the area will not change significantly. The wetlands to the south of the Site are currently for sale.

History of Contamination

MEW serviced, repaired, reconditioned, and salvaged electrical equipment from 1954 to 1992. Electrical equipment handled during this time consisted of oil-filled electrical transformers, electric motors, electrical equipment controls and oil-filled switches. PCBs, first manufactured in the 1920s, have excellent fire-retardant properties. PCBs were often added to the dielectric fluid in electrical equipment to minimize the potential for fires. The Toxic Substance Control Act (TSCA) of 1978 banned the future manufacture of PCBs and required that electrical equipment containing more than 500 parts per million (ppm) PCB be removed from service. This regulation resulted from studies which indicated that PCBs are a probable human carcinogen, they are extremely stable in the environment (they do not degrade) and they bio-accumulate in the food chain. The products of incomplete combustion of PCBs are dioxins and furans.

During its operational history, MEW reportedly recycled materials from old units, selling copper wire, and reusing the dielectric fluids from the transformers. The salvaged transformer oil was filtered through Fuller's earth for reuse. An estimated 90 percent of the transformer oil was recycled. According to business records obtained from MEW, more than 16,000 transformers were repaired or scrapped at the site during its time of operation. The total amount of transformer oil that was not recycled was estimated to be 28,000 gallons. Information gathered during interviews of former employees indicates that the majority of the non-recycled oil was disposed of on the site. In 1984, approximately 5,000 gallons of waste oil was removed by a contractor after the TSCA inspection by the Missouri Department of Natural Resources (MDNR).

Industrial solvents were used to clean the electrical equipment being repaired or serviced. Solvents were reused until they were no longer effective. Spills and disposal of spent solvents on the MEW property were described by past employees during EPA-conducted interviews. The MEW and adjacent properties have been found to be contaminated with PCBs.

Initial Response

The site was discovered in 1984 during a TSCA inspection. PCB contaminated soils and inappropriate storage of over 100 55-gallon drums of PCB-contaminated oils were identified. The EPA performed additional investigations to characterize the amount of contamination between 1985 and 1988. The EPA issued an administrative order requiring that the owner/operator of the site no longer handle any oil-filled electrical equipment with PCB concentrations greater than 2 ppm, that erosion barriers be placed in all drainage features to minimize the amount of PCB contamination migrating off-site via storm water runoff, and that vegetables grown on site not be sold or given away to anyone outside of the site owner's immediate family.

The site was proposed for inclusion on the National Priorities List (NPL) on June 24, 1988, and finalized on the NPL on February 21, 1990. Former MEW customers were informed of their potential liability beginning in June of 1988. A steering committee of former customers known as the Missouri Electric Works Steering Committee (MEWSC) was formed. The MEWSC performed a Remedial Investigation/Feasibility Study (RI/FS) during 1989 and 1990. The 1990 OU-1 ROD selected thermal desorption of PCB-contaminated soils as the preferred remedy. This remedy was implemented in 1999-2000.

A RI/FS for the groundwater was required pursuant to the Consent Decree (CD) for OU-1 (soils). The Missouri Electric Work Site Trust Donors (MEWSTD) began the groundwater RI/FS in 2000 and completed it in 2004. The 2005 OU-2 ROD selected a technical impracticability (TI)-based remedy for the fractured bedrock aquifer, and an enhanced in situ bioremediation remedy (with a contingent remedy of monitored natural attenuation (MNA)) for the alluvial aquifer.

Basis for Taking Action

Hazardous substances that have been released to the site in each media include:

Soil	Groundwater	
PCBs	1,1-dichloroethane	1,1,1-trichloroethane
methylene chloride	1,2-dichloroethene (total)	1,1-dichloroethene
trichloroethene	chlorobenzene	1,2,4-trichlorbenzene
trichloroethane	trichloroethene	1,2-dichlorobenzene
chlorobenzene	tetrachloroethene	1,3-dichlorobenzene
	benzene	1,4-dichlorobenzene
	PCBs	

Sediment	Air
PCBs	PCBs

A Baseline Human Health Risk Assessment (BHHRA) of the site was performed by the MEWSC throughout 1990. The BHHRA indicated that contamination in soil at the Site presented an unacceptable risk to human health and the environment. The principal threat from the Site was due to human exposure to the PCB-contaminated soils. The analyses were based on "most probable case" and "worst case" exposure scenarios. Potential risks associated with exposure to groundwater are attributed to the presence of chlorinated compounds that exist at concentrations that exceed state maximum contaminant levels (MCLs).

A BHHRA was performed by the Settling Defendants throughout 2004 which specifically evaluated the groundwater contaminants associated with MEW activities. A total of fifty-two (52) contaminants of potential concern were retained and evaluated in the BHRRA. The analyses performed indicated that groundwater impacted by Site contamination presents an unacceptable risk to human health. These human health risks are the result of chemicals released to the environment during the operations of MEW.

Ecological risks were not fully evaluated during the previous investigations at the site. Ecological risk will be further evaluated as part of the RI/FS for OU-3.

IV. Remedial Actions

Remedy Selection

OU-1 – Soils

The ROD for OU-1 was issued by the EPA on September 28, 1990. The major components of the source control remedy selected in the 1990 ROD included the following:

1. Excavation and on-site thermal treatment of all soils with PCB concentrations in excess of 10 ppm to a depth of four (4) feet and 100 ppm at depths greater than four (4) feet. (Note: the potentially responsible parties (PRPs) subsequently agreed to treat to 10 ppm at all depths, and this was accomplished.)
2. Backfill excavated areas using treated soils, after analytical tests confirm that treatment standards are met.
3. Restoration and revegetation of the Site, including a surface layer of organic-rich soil to support vegetation.
4. Impose institutional controls (ICs), such as deed restrictions and/or zoning restrictions to limit use of the site to industrial or commercial purposes.

A 1994 Explanation of Significant Differences (ESD) was issued to include thermal desorption as a potential thermal treatment for soils; the 1990 ROD specified incineration only. The soils remedy was completed in 2000. The 1990 ROD also included a remedy for groundwater at the site; however, this remedy was not implemented and was superseded by the 2005 OU-2 ROD.

OU-2 – Groundwater

The 2005 ROD was issued on September 28, 2005. Two distinct groundwater regimes were identified during the RI; groundwater in fractured bedrock and groundwater in alluvium underlying the wetland area.

As discussed above, the EPA has determined that, due to the hydrogeological conditions at the site, it is technically impracticable from an engineering perspective to comply with the relevant and appropriate requirement of achieving MCLs in remediating the groundwater in the fractured bedrock, and accordingly, a TI waiver of this requirement for the fractured bedrock was invoked by the EPA in the 2005 ROD. The major components of the migration management remedy selected for the fractured bedrock groundwater in the 2005 ROD include:

- ICs;
- wellhead treatment (where appropriate); and
- long-term groundwater monitoring.

The TI waiver for the fractured bedrock was needed due to the highly variable and fractured nature of the bedrock in the Upland Area of the site.

The major components of the remedy selected for the alluvial groundwater in the 2005 ROD include:

- ICs;
- wellhead treatment;
- long-term groundwater monitoring; and
- injection of EBD agents into the alluvial groundwater (with a contingent MNA remedy).

An ESD was signed in November 2013, based on MNA sampling conducted in 2012-2013, that formally selected the contingent MNA remedy for the alluvial aquifer. The MNA sampling demonstrated evidence for the occurrence of MNA and a slow decreasing trend in contaminant concentrations in the alluvial aquifer. The OU-2 remedies have not yet been fully implemented due to ongoing negotiations with the PRPs on a CD that would compel them to perform the remedial action (RA) for the fractured bedrock aquifer component of OU-2.

Remedy Implementation

OU-1 Soil

After several years delay due to legal proceedings, the contract for thermal treatment of the soils was awarded on August 25, 1998. The remedial design (RD) was conditionally approved on March 25, 1999. On-site mobilization, clearing and grubbing efforts began on June 7, 1999. Thermal treatment of the PCB-contaminated soils was completed on July 25, 2000. The work for the soils (OU-1) was finished with the approval of the Remedial Action Report on September 29, 2000. The EPA and the state of Missouri have determined that all work identified in the Consent Decree (CD) has been substantially performed. No long-term operation and maintenance activities were required in the CD. There are no operation and maintenance activities being performed, though ICs are in place via an environmental covenant that was placed in early 2014. This covenant placed certain restrictions on how the former MEW property could be used, including a prohibition on residential use.

V. Progress Since the Last Five-Year Review

Since the second Five-Year Review for the Site, the following progress has been made:

- Negotiations with the PRP group continued on a Consent Decree for RD/RA for the fractured bedrock portion of OU-2
- Four quarters of MNA sampling were performed in 2012-2013
- An ESD to select the OU-2 alluvial aquifer contingent remedy of MNA was signed in November, 2013
- An Environmental Covenant with the current Site owner was recorded in March, 2014
- A site inspection and sampling of groundwater, soil and fish tissue for this FYR was conducted in March, 2014

Table 2: Status of Recommendations from the last FYR:

Recommendation / Follow-up Action	Party Responsible	Projected Milestone Date	Current Status
1. Institutional controls not placed with regards to groundwater	Property owners, City of Cape Girardeau, State of Missouri	9/30/2010	Environmental covenant placed on former MEW property in 2014; additional city/state ordinances may be placed
2. Insufficient monitoring frequencies for groundwater; fractured bedrock and alluvium	PRPs	09/30/2010	Not completed by PRPs due to lengthy and ongoing CD negotiations; EPA MNA sampling partially addressed the issue for the alluvial aquifer
3. Ecological risk assessment not conducted for wetland area south of the MEW facility	PRPs	09/30/2012	A screening-level ERA was performed in June 2006 for the Wetlands area. A baseline ERA will be required as part of the future OU-3 RI/FS investigation by the PRPs.
4. Additional sediment/soil assessment needed to determine whether PCBs are present in the wetland area	PRPs	09/30/2011	Not completed by PRPs due to lengthy and ongoing CD negotiations; EPA sampling in 2014 for this FYR addresses this issue.
5. Maintenance to secure the property, replace monitoring well locks and remove compromising vegetation, and maintain security fencing	PRPs	09/30/2009	Completed March, 2010

VI. Five-Year Review Process

Administrative Components

Members of the MEWSTD and the community were notified of the third FYR start during December 2013. The MEW FYR was performed by Dan Gravatt and Greg Bach, EPA Remedial Project Managers. Don Van Dyke and Jeremy Wall of MDNR assisted in the review as the representatives for the support agency.

The review included the following components:

Community involvement
Document review
Data review
Site inspection
FYR report development and review

These efforts were performed from December 2013 through July 2014.

Community Involvement

A notice was published in the Southeast Missourian newspaper in Cape Girardeau in December, 2013 that the third FYR was to be conducted (Attachment 1).

Document Review

This FYR consisted of a review of relevant documents including the Remedial Action report, groundwater monitoring data, ecological screening assessment, MNA sampling results and OU-2 alluvial aquifer ESD. The documents reviewed are listed in Attachment 2.

Data Review

Data collected since the last FYR includes the four quarterly groundwater MNA sampling rounds of the monitoring wells in the wetlands area from 2012-2013 and the soil, groundwater and fish tissue sampling conducted in March 2014 in support of this FYR. The FYR sampling results are included as Attachment 3.

The results of the MNA quarterly groundwater sampling indicated that concentrations of volatile organic compounds (VOCs) in the alluvial aquifer show a slow declining trend, and that geochemical parameters in the aquifer can support MNA processes. Of the VOCs detected in the alluvial wells, only trichloroethylene (TCE) slightly exceeded its MCL in wells MW-16B and MW-16C, with a maximum concentration of 11 ppb detected in the 2006 sampling event (sampling conducted by the PRPs).

The FYR sampling in 2014 included fractured bedrock monitoring wells WSW-1, MW-3, MW-5, MW-11, MW-12, and alluvial aquifer well cluster MW-16A/B/C. These samples were analyzed for PCBs (total and dissolved) and for VOCs. No PCBs were found in the alluvial aquifer wells MW-16A/B/C, but low levels of TCE and daughter compounds were found in this well cluster. PCBs were found in MW-11 (a fractured bedrock aquifer well) on the Site property at a concentration of 2.34 ppb Aroclor-1260 in the unfiltered sample. VOCs including TCE, benzene, and chlorobenzenes were found in the fractured bedrock aquifer wells.

The FYR sampling conducted found PCBs at several locations in soil on the Site and in the ravine leading downhill from the Site to the wetlands area, at depths ranging from the surface down to six inches (the maximum depth sampled in these areas), and a maximum concentration of 42 milligrams per kilogram (mg/kg) at six inches in sample UA-05-6".

The FYR sampling conducted in the wetlands area south of the Site found PCBs (Aroclor-1260) in several locations within the wetlands soils, at depths ranging from the surface down to five feet (the maximum depth sampled in this area), and a maximum concentration of 6.1 mg/kg at four feet in sample LA-14-4'. Fish tissue sampling in the pond in the wetlands found PCBs (Aroclor-1260) at a concentration of 27 mg/kg.

Site Inspection

Inspection of the site was performed March 25-27, 2014 by Greg Bach of the EPA, accompanied by Jeremy Wall of MDNR. Results of the inspection are documented in the Site Inspection Checklist (Attachment 4). The new owner of the former MEW property has regraded much of the Site, renovated the original MEW building, and constructed a U-Store-It building on the southwest part of the site.

These actions disturbed much of the surface and subsurface soil at the site. Wells on the former MEW property were somewhat overgrown and difficult to access, and the well locks were difficult to open. The fence around the wetlands pond is overgrown with vegetation but apparently undamaged. There is no evidence of trespassing or vandalism.

VII. Technical Assessment

Question A- Is the remedy functioning as intended by the decision document?

The PCB-contaminated soil on site has been both removed and treated on-site. However, the recent sampling on-site identified current surface soil contamination above the 1990 ROD standard of 10 ppm. According to the 2005 ROD, PCB contamination was detected to the top of the bedrock. The source areas for groundwater impacts are thought to be contamination remaining in the soil in the area of wells MW-3/5/11 on the southeast portion of the site and the former transformer storage area.

The selected remedy for OU-2 has not been fully implemented at the site. Groundwater impacts in the bedrock may flow into the alluvium. ICs will apparently be implemented or imposed to prevent exposure to the contaminated groundwater thereby limiting potential exposure and human health risk concerns.

A remedy has not been selected for the wetland area. A RI/FS is warranted to evaluate selection and implementation of an appropriate remedy in the wetlands area.

•*Is the selected remedy adequate for this site?* The OU-1 remedy included excavation and thermal desorption to treat approximately 38,000 tons of PCB impacted soil at the site. This remedy was appropriate for the site; however, the recent detection of PCBs in subsurface soil may indicate that some contamination above the 10 ppm cleanup standard remains. As indicated, a TI waiver for fractured bedrock was issued due to the highly variable and fractured nature of the bedrock aquifer. An ESD for groundwater was issued in 2013 for the OU-2 alluvial aquifer that changed the remedy from enhanced biodegradation to MNA (EPA, 2013). This remedy has not been fully implemented at the site. The OU-2 remedy also provided for wellhead treatment in the event private wells become impacted; a plan to assess and mitigate such impacts will be part of the RA.

•*Is the plume stable?* Monitoring frequencies during this FYR period for all site associated wells has been insufficient to adequately evaluate plume stability or contaminant trends. For this FYR, the alluvial wells have been sampled four times over two years (2012 – 2013). Some of the bedrock wells were sampled during the 2014 FYR sampling event. We recommend periodic sampling frequencies be increased.

•*Do contaminant trends indicate the remedy is adequate?* The remedy for OU-2 has not been implemented at this site. As indicated, monitoring frequencies are inadequate and contaminant trends in the alluvial aquifer for the portion of the FYR period prior to the 2012-2013 MNA sampling events cannot be evaluated at this site. Contaminant trends in the bedrock aquifer cannot be assessed as those wells have not been sampled regularly during the FYR period.

Vapor Intrusion (VI) Pathway

•*Are the contaminants of concern (COCs) of sufficient volatility and toxicity to warrant a VI investigation?* There are VOCs of sufficient volatility and toxicity that have been detected in groundwater at this site. However, not all site associated wells have been sampled during this FYR period. The alluvial wells were last sampled in March 2014. COC concentrations detected in those wells are not sufficient to warrant a VI investigation. No current receptors are present in the area of the alluvial wells. On-site wells were last sampled in March 2014.

•*Has a VI Investigation been conducted at this site?* No, a VI investigation was not conducted at this site. Concentrations of several COCs detected in groundwater during the last on-site event could potentially present a VI concern. Although, unless there are occupied structures, only a future use scenario would apply. If there are occupied structures, a mitigating factor would be the near surface site geology which consists of 15 ft. to 25 ft. of silt underlain by gravelly clay. These finer materials would inhibit vapor transport.

•*Is the VI pathway complete? If complete, has the VI concern been adequately mitigated to insure protectiveness*? A VI investigation was not conducted at this site. Unless there are currently occupied structures, the VI pathway will not be complete. The only occupied structure is the former MEW building which has been renovated and hosts a business. The monitoring well adjacent to this building, WSW-1, was sampled as part of the FYR sampling in 2014. It contained TCE at a concentration of 6.5 parts per billion, with a water level of approximately 36 feet below ground surface. Based on this information, it is unlikely that the VI pathway is complete.

Question B – Are the exposure assumptions, toxicity data, cleanup levels, and remedial action objectives used at the time of the remedy selection still valid?

Changes in Standards and TBCs

□*Have there been changes to risk-based cleanup levels or standards identified as Applicable or Relevant and Appropriate Requirements (ARARs) in the ROD that call into question the protectiveness of the remedy?*

Soil OU: We are not aware of any changes to risk-based cleanup levels or to standards identified as ARARs, which call into question the protectiveness of the remedy currently in place. The ROD of September 1990 (EPA, 1990), called for the excavation of all soils and sediments with PCB

concentrations greater than 10 ppm to a depth of 4 feet, and soils below that depth with PCB concentrations greater than 100 ppm. Excavated soils were then to be incinerated on-site, and the ash and clean soil returned to the excavated areas as backfill. This remedy was later modified to add thermal desorption to the thermal treatment component of the remedy (EPA, 1995). The cleanup went beyond the requirements of the ROD in that all sediments and soils contaminated with greater than 10 ppm were excavated, regardless of depth (France-Isetts, 2000).

Groundwater OU: We are not aware of any changes to risk-based cleanup levels or to standards identified as ARARs, which call into question the protectiveness of the remedy currently in place. The September 1990, ROD (EPA, 1990) identified a pump and treat system as the selected groundwater remedy. However, subsequent investigation of site geology determined that this remedy could not be implemented effectively due to the nature of the fractured bedrock aquifer (Komex, 2005a, 2005b). Consequently, a TI evaluation was completed (Komex, 2005c) for the bedrock aquifer, with the result that a new groundwater alternative was selected. This alternative consists of ICs to prevent use of the contaminated groundwater, the installation of any well-head treatments system found to be necessary in order to treat a potable water supply, and long-term groundwater monitoring (EPA, 2005).

Wetlands Operable Unit: Chronic National Ambient Water Quality Criteria, as well as the State of Missouri's water quality criteria, should be considered ARARs for surface water when a remedy is selected for OU-3. Currently, the chronic NAWQC for total PCBs in surface water is 0.014 μg/L. To date, there are no sediment or fish tissue ARARs that would impact a future ROD for OU-3.

☐*Are there newly promulgated standards that call into question the protectiveness of the remedy?* We are not aware of any newly promulgated standards that call into question the protectiveness of the remedy.

☐*Have TBCs used in selecting cleanup levels at the site changed in way that could affect the protectiveness of the remedy?* The 2005 ROD identifies the need for consideration of TBCs in the alluvium, including contaminant toxicity factors found in the Integrated Risk Information System and the EPA risk assessment guidance. Once the groundwater monitoring plan is implemented, we would recommend that these TBCs also be considered during any wellhead treatment efforts undertaken relative to the groundwater in fractured bedrock. Consideration of current contaminant toxicity factors and the EPA risk assessment guidance could potentially increase the protectiveness of the remedy.

Changes in Exposure Pathways

☐*Has land use or expected land use on or near the site changed (e.g., industrial to residential, commercial to residential)?* Additional buildings were constructed on the former MEW site in 2011. However, the land use is still commercial.

☐*Have any human health or ecological routes of exposure or receptors changed or been newly identified (e.g., dermal contact where none previously existed, new populations or species identified on site or near the site) that could affect the protectiveness of the remedy?* The recent discovery of PCBs above the 10 ppm cleanup standard in surface soils on the Site represents a potential new exposure route which requires further evaluation. The identified ecological exposures in the wetland area will be characterized as part of the OU-3 RI/FS.

☐*Are there newly identified contaminants or contaminant sources?* We are not aware of any newly identified contaminants or contaminant sources.

☐*Are there unanticipated toxic byproducts of the remedy not previously addressed by the decision documents (e.g., byproducts not evaluated at the time of remedy selection)?* We are not aware of any unanticipated toxic byproducts.

☐*Have physical site conditions (e.g., changes in anticipated direction or rate of groundwater flow) or the understanding of these conditions (e.g., changes in anticipated direction or rate of groundwater flow) changed in a way that could affect the protectiveness of the remedy?* PCB concentrations greater than 10 ppm were found in the surface soil during the 2014 FYR sampling. Groundwater sampling data does indicate the continued presence of contamination at concentrations greater than the EPA's regulatory levels (Komex, 2005d). This is not unexpected since the FS recognized that, due to the nature of site geology, "Residual human health risks from COCs in groundwater would remain for an unknown period and ICs would be required for an indefinite period to ensure protectiveness" (Komex, 2005b). Site conditions in the wetland area will be characterized as part of the OU-3 RI/FS.

Changes in Toxicity and Other Contaminant Characteristics

☐*Have toxicity factors for COCs at the site changed in a way that could affect the protectiveness of the remedy?* Many of the non-carcinogenic and carcinogenic toxicity factors identified in the RODs have been updated. In particular, the EPA has developed new screening levels for contaminants which may be carcinogenic by a mutagenic mode of action. However, these new levels focus on a potential direct contact route of exposure to the contaminants by children. The concentrations of the newly discovered surface soil PCBs should be compared with the new levels for mutagenic compounds.

☐*Have other contaminant characteristics changed in a way that could affect protectiveness of the remedy?* We are not aware of any other changes to contaminant characteristics that could impact the protectiveness of the remedy.

Changes in Risk Assessment Methods

☐*Have standardized risk assessment methodologies changed in a way that could affect the protectiveness of the remedy?* The EPA has revised several of its methodologies since the completion of the ROD, including its dermal risk assessment guidance, its process for estimating the health risks from inhalation of VOCs during household use of contaminated groundwater (i.e., bathing, showering, cooking, etc.), the use of the Integrated Exposure Uptake Biokinetic Model and the Adult Lead Methodology to evaluate potential health risks from lead, the means by which the EPA evaluates the VI pathway, and the means by which it evaluates compounds which are carcinogenic by a mutagenic mode of action. The EPA has also changed the toxicity values for a number of compounds since the signing of the original ROD. However, these changes in methodology and toxicity values do not adversely affect the protectiveness of the remedy currently in place at the Site. Standardized methods for ecological risk assessment can be found in Ecological Risk Assessment Guidance for Superfund: Process for Designing and Conducting Ecological Risk Assessments - Interim Final (EPA, 1997).

Question C – Has any other information come to light that could call into question the protectiveness of the remedy?

Have newly found ecological risks been found? Ecological receptors at the site have been identified and will be addressed as part of the OU-3 RI/FS. An inadequate screening level ecological risk assessment was performed for the wetland area and associated drainage by the responsible parties (ENVIRON, 2006). The sampling conducted in 2014 identified PCBs in wetlands soil and in fish tissue from the pond in the wetlands area. Based on the information provided in the draft SLERA and the 2014 sampling, as well as the nature of the contaminants on site (PCBs), we recommend that a baseline ecological risk assessment be completed as part of the OU-3 RI/FS.

□*Are there impacts from natural disasters (e.g., a 100-year flood)?* We are not aware of any natural disasters that have occurred on this Site.

□*Has any other information come to light which could affect the protectiveness of the remedy?* The recent detection of PCBs in surface soil on the former MEW property warrants additional investigation. The 2005 ROD stated that long-term groundwater monitoring would be one component of the selected remedy. This monitoring has not yet begun due to lengthy negotiations with the PRPs on a CD to perform this work.

The 2005 ROD also stated that ICs were components of the ROD. An Environmental Covenant was signed by MDNR, the EPA and the current MEW site owner and recorded in 2014. Additional ICs may be placed by the City or the State of Missouri.

The 2005 ROD also included a provision for establishing wellhead protection in the event a drinking water supply well should become contaminated with site COCs. This provision has not yet been implemented due to lengthy negotiations with the PRPs on a CD to perform this work.

The Third Five-Year Review Technical Assessment memorandum generated by expert hydrogeologists, human health risk assessors and ecological risk assessors in EPA Region 7's Environmental Services Division is included as Attachment 5. Note that the recent 2014 FYR sampling data was not available at the time their memorandum was prepared; their conclusions and recommendations as presented in this section have been updated to reflect this data.

VIII. Issues

Table 3 – Issues

Issue	Affects Current Protectiveness (Y/N)	Affects Future Protectiveness (Y/N)
Insufficient monitoring frequencies for groundwater, fractured bedrock and alluvial aquifers	N	Y
City and/or State Institutional Controls may be placed to prevent groundwater use in the area	N	Y
Recent surface soil sampling detected PCBs above the 10 ppm cleanup standard specified in the OU-1 ROD near the former MEW building	N	Y

IX. Recommendations and Follow-up Actions

Table 4 – Recommendations and Follow-Up Actions

Issue	Recommendations/Follow-up Actions	Party Responsible	Oversight Agency	Milestone Date	Affects Protectiveness (Y/N)	
					Current	Future
Insufficient monitoring frequencies for groundwater, fractured bedrock and alluvial aquifers	Resolve CD negotiations with PRPs for fractured bedrock RD/RA and O&M; implement fund-lead RD/RA for alluvial aquifer	PRPs, EPA, MDNR	State/ EPA	TBD	N	Y
City and/or State ICs may be placed to prevent groundwater use in the area	The EPA should request that the City and the State implement appropriate ICs	City of Cape Girardeau, MDNR	EPA	TBD	N	Y
Recent surface soil sampling detected PCBs above the 10 ppm cleanup standard specified in the OU-1 ROD near the former MEW building	Additional sampling is required to confirm this detection and delineate the impacted area	EPA	MDNR	July 31, 2016	N	Y

X. Protectiveness Statement

The protectiveness determination for the soil remedy (OU-1) is deferred at this time, due to the recent discovery of PCB concentrations above the 10 ppm cleanup standard in surface soil at one location on the former MEW property. Additional investigation to confirm this result is needed.

The groundwater remedy (OU-2) selected in the 2005 ROD and the 2013 ESD has not yet been implemented. However, there is currently no known use of groundwater from either the fractured bedrock or alluvial aquifers. ICs have been placed on the MEW site. Routine groundwater monitoring is needed. Monitoring is being negotiated with the MEWSTD as part of the work effort pursuant to a CD. The protectiveness determination for the groundwater remedy is deferred until the remedy can be fully implemented and post-implementation groundwater data is collected.

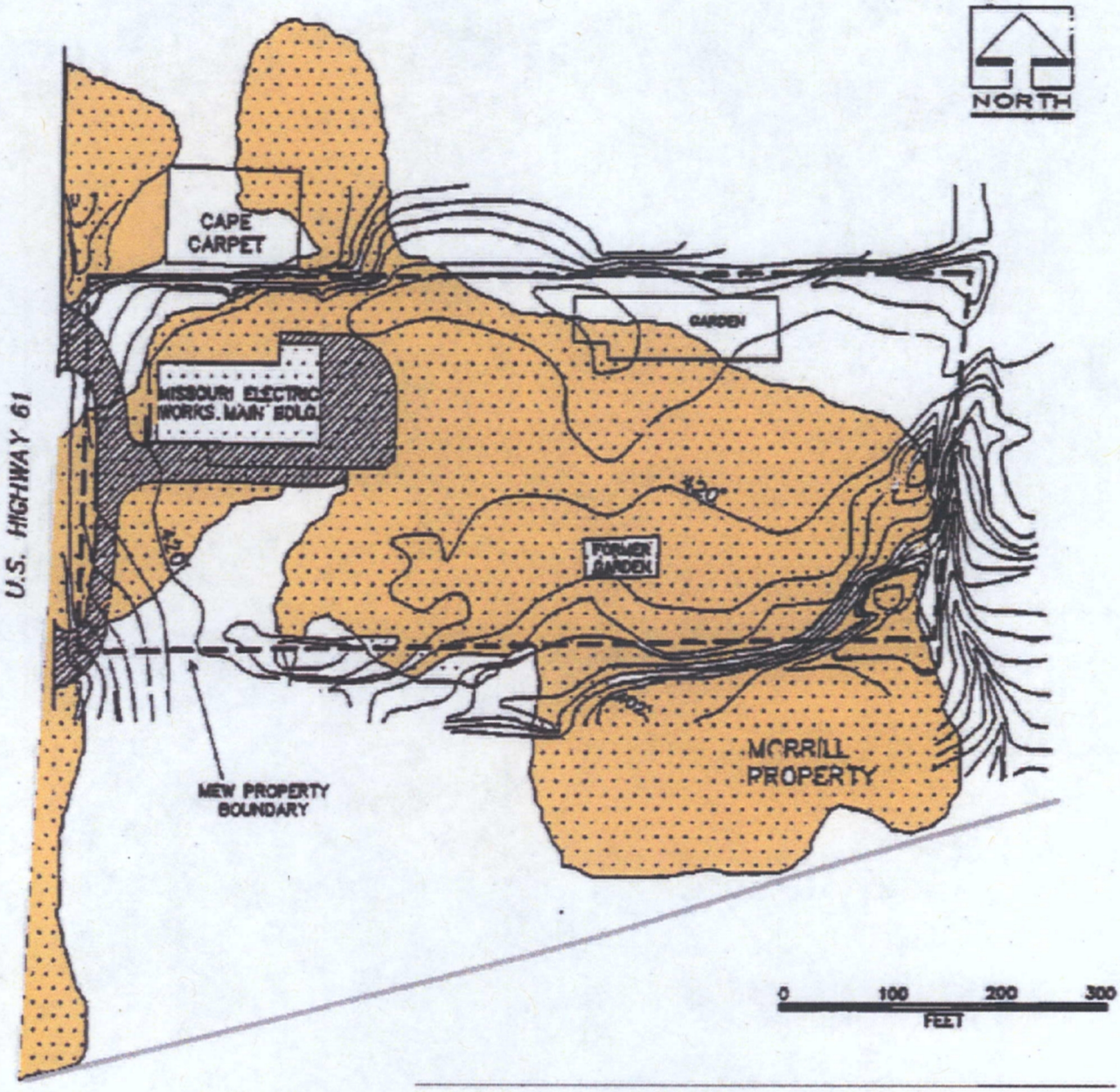
XI. Next Review

The fourth FYR for the Site is required by August 2019, five years from the date of this review.

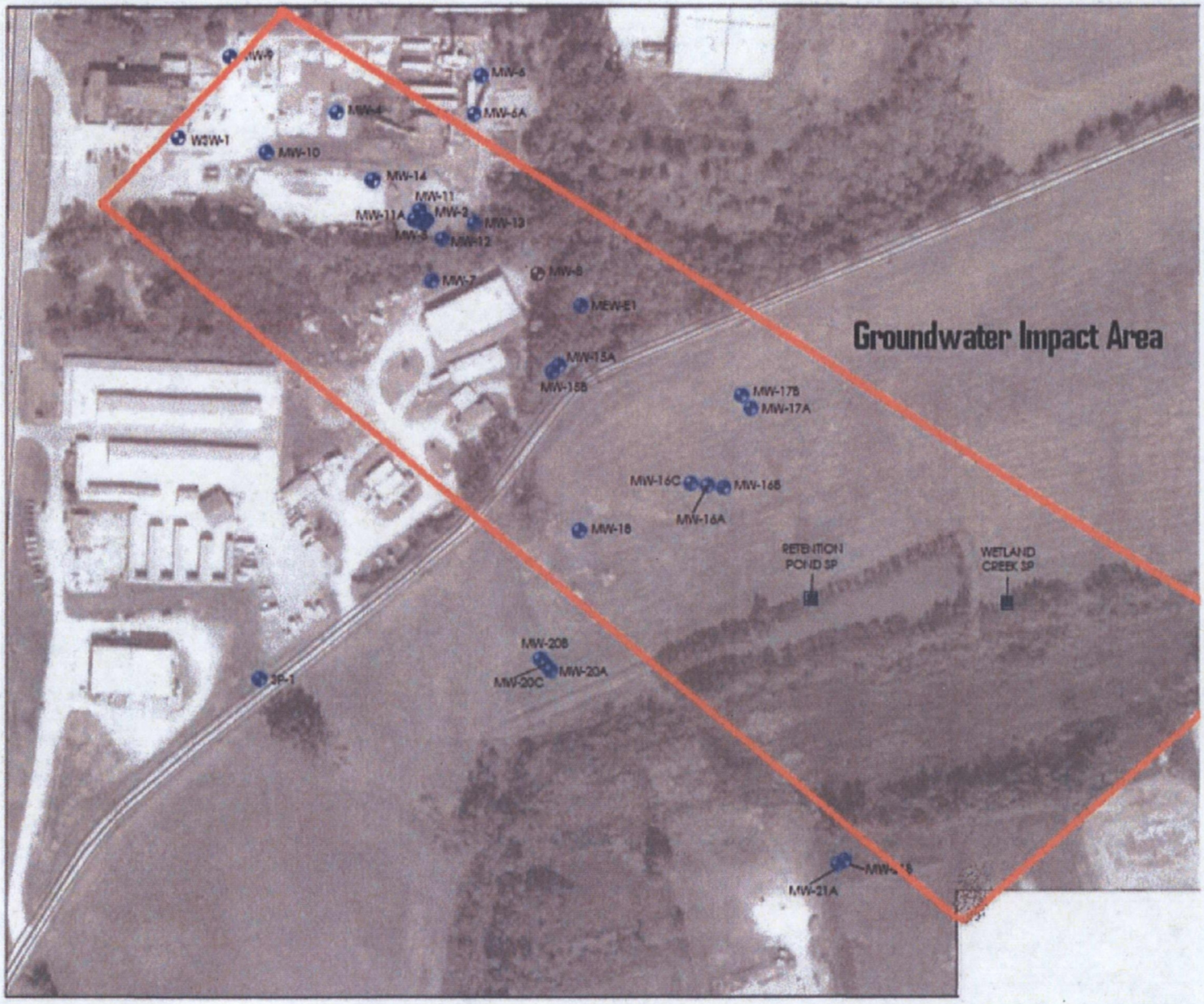
NOTES:
1) BASE MAP FROM USGS 7.5 MINUTE CAPE GIRARDEAU QUADRANGLE (1965, REVISED 1993).
2) ALL LOCATIONS ARE APPROXIMATE.

APPROXIMATE SCALE IN MILES
0 0.5 1

	Missouri Electric Works Site **Site Location Map**	Figure 1



from 1990 Feasibility Study The Earth Technology Corporation	**Missouri Electric Works Site** **Extent of Soil Contamination (OU 1)** **(PCB Contaminated Soil greater than 10 ppm)**	Figure 2



from KOMEX Remedial Investigation Report, 2005	**Missouri Electric Works Site** **Estimated Area Impacted by Groundwater Contamination**	Figure 3

from KOMEX Remedial Investigation Report, 2005	**Missouri Electric Works Site Wetland Area**	Figure 4

Attachment 1 – Published Notice of Third FYR Start

Missouri Electric Works Superfund Site
Cape Girardeau, Missouri

EPA has initiated the third Five-Year Review at the Missouri Electric Works Superfund Site. The review is required by the Superfund law to make sure completed cleanups continue to protect human health and the environment. This third five-year review should be completed by July 2014.

The contaminant of concern at the site is polychlorinated biphenyl (PCB). PCBs were widely used as coolant fluids in transformers and electric motors. MEW sold, serviced and reconditioned electric motors, transformers and capacitors from 1954 until 1992. Site soils and groundwater were contaminated by PCBs and volatile organic compounds (VOCs). The site has been divided into three operable units: OU1 for soil contamination, OU2 for groundwater contamination and OU3 for sediment contamination in the adjacent wetlands. Remedies have been selected for OU1 and OU2, and the remedy for OU1 has been implemented. A remedial investigation/feasibility study is planned for OU3. EPA will study site information during this third Five-Year Review and inspect the site to determine if the selected remedy for OU1 continues to protect human health and the environment.

EPA encourages community members to ask questions and report any concerns about the site. A final report will be prepared at the end of the review and will be available at the site information repositories. Detailed information about the site is available at the following locations:

Cape Girardeau Public Library 711 N. Clark St. Cape Girardeau, MO 63701 573-334-5279	EPA Records Center 11201 Renner Blvd. Lenexa, KS 66219 1-800-223-0425

Questions or requests for site information and/or the five-year review process can be submitted to Dianna Whitaker, Community Involvement Coordinator, 1-800-223-0425 or whitaker.dianna@epa.gov .

Attachment 2 – List of Documents Reviewed

1990 OU-1 Record of Decision
1994 OU-1 Explanation of Significant Differences for Thermal Treatment Technologies
2005 OU-2 Record of Decision
2005 Komex Groundwater Monitoring Reports
2009 Second Five-Year Review
2012-2013 Monitored Natural Attenuation Sampling Reports and Analytical Data
2013 ESD for OU-2 Alluvial Aquifer Contingent Remedy Selection
2014 Environmental Covenant
2014 Five-Year Review Sampling Trip Report and Analytical Data

Attachment 3 – Five-Year Review Sampling Trip Report with Analytical Results

Seagull Environmental Technologies, Inc.

121 NE 72nd Street
Gladstone, Missouri 64118
www.seagullenvirotech.com

May 8, 2014

Mr. Dan Gravatt
EPA Remedial Project Manager
U.S. Environmental Protection Agency, Region 7
11201 Renner Boulevard
Lenexa, Kansas 66219

Subject: **5-Year Review Sampling Trip Report**
Missouri Electric Works Site, Cape Girardeau, Missouri
EPA Region 7, Mini-START, Contract No. EP-S7-12-04, Task Order No. 0016
Task Monitor: Dan Gravatt, EPA Remedial Project Manager

Dear Mr. Gravatt:

Seagull Environmental Technologies, Inc. (Seagull) is submitting the attached 5-Year Review Sampling Report regarding the Missouri Electric Works site in Cape Girardeau, Missouri. If you have any questions or comments, please contact the project manager at (913) 220-5887.

Sincerely,

Jeff Pritchard, CHMM
Mini-START Project Manager

Hieu Q. Vu, PE
Mini-START Program Manager

Enclosures

cc: Brian Mitchell, Mini-START Project Officer (cover letter only)

EPS71204.0016

5-YEAR REVIEW SAMPLING REPORT

MISSOURI ELECTRIC WORKS SITE, CAPE GIRARDEAU, MISSOURI
CERCLIS ID: MOD980965982

Mini-Superfund Technical Assessment and Response Team (Mini-START)

Contract No. EP-S7-12-04, Task Order No. 0016

Prepared For:

U.S. Environmental Protection Agency
Region 7
11201 Renner Boulevard
Lenexa, Kansas 66219

May 8, 2014

Prepared By:

Seagull Environmental Technologies, Inc.
121 NE 72nd Street
Gladstone, Missouri 64118

CONTENTS

Section **Page**

1.0 INTRODUCTION 1

2.0 SITE LOCATION/DESCRIPTION 1

3.0 SITE HISTORY/INVESTIGATIONS 1

4.0 SITE ACTIVITIES 2

4.1 MONITORING WELL SAMPLING 2
4.2 SOIL SAMPLING 4
4.3 FISH TISSUE SAMPLING 5
4.4 QUALITY CONTROL SAMPLES 6
4.5 DEVIATIONS FROM THE QAPP 6

5.0 SUMMARY 6

6.0 REFERENCES 7

APPENDICES

Appendix

A FIGURES

B LOW-FLOW PURGE FIELD SHEETS

C SOIL AND GROUNDWATER ANALYTICAL RESULTS

D FISH TISSUE ANALTYICAL RESULTS

TABLES

Table **Page**

1 GROUNDWATER SAMPLE SUMMARY 3
2 SOIL SAMPLE SUMMARY 5

1.0 INTRODUCTION

Seagull Environmental Technologies, Inc. (Seagull) was tasked by the U.S. Environmental Protection Agency (EPA), under the Mini-Superfund Technical Assessment and Response Team (Mini-START) contract, to conduct sampling activities as part of the 5-year review for the Missouri Electric Works (MEW) site in Cape Girardeau, Missouri. The purpose of the sampling activity was to collect data for ongoing site evaluation as part of the remedial process.

2.0 SITE LOCATION/DESCRIPTION

MEW, Inc., operated at 824 South Kingshighway in Cape Girardeau, Cape Giradeau County, Missouri, from 1954 to 1992 (see Appendix A, Figure 1). The facility operated on 6.5 acres. To address contamination associated with the site, MEW has been divided into three Operable Units (OU): (1) OU1 for soil contamination, (2) OU2 for groundwater contamination, and (3) OU3 for sediment contamination in adjacent wetlands. This sampling activity addressed all three of the OUs.

3.0 SITE HISTORY/INVESTIGATIONS

MEW, Inc., acquired the property in 1952, and serviced, repaired, reconditioned, and salvaged electrical equipment from 1954 to 1992. Electrical equipment processed during this period consisted of oil-filled electrical transformers, electric motors, electric equipment controls, and oil-filled switches. According to business records obtained from MEW, Inc., more than 16,000 transformers were repaired or scrapped. Approximately 90 percent of the transformer oil that was salvaged from the equipment was filtered and reused (EPA 2011). The total amount of transformer oil that was not recycled was estimated to be approximately 28,000 gallons. Information gathered during interviews of former employees of the facility indicated that the majority of the non-recycled oil had been disposed of on property owned by MEW, Inc. In addition, industrial solvents were used to clean the electrical equipment being repaired or serviced by MEW, Inc. These solvents were reused until they were no longer effective. Spills and the disposal of spent solvents onto soils were identified by former employees during EPA-conducted interviews (EPA 2011).

Contamination was first detected at the site in 1984 during a Missouri Department of Natural Resources (MDNR) Toxic Substances Control Act inspection. During this inspection, MDNR discovered polychlorinated biphenyl (PCB)-contaminated soils and inappropriate storage of over 100 55-gallon drums of PCB-containing oil. From 1985 through 1988, EPA conducted additional investigations to characterize

the extent of contamination originating from MEW, Inc., operations. EPA investigations determined (1) PCB contamination in surface soil was extensive (PCB concentrations of up to 58,000 parts per million [ppm] were detected), (2) shallow subsurface soils contained low levels of contamination, (3) off-site migration of PCB-contaminated soils had occurred along drainage paths, (4) measureable levels of PCBs were present on walls of MEW, Inc., and nearby buildings, and (5) measurable concentrations of airborne PCBs were present (EPA 2012). The facility was issued an order in 1988, prohibiting the company from accepting electrical equipment containing oil with PCB levels in excess of 1 ppm (EPA 2011).

The MEW Steering Committee (MEWSC)—a group of former MEW, Inc., customers identified by EPA as potentially responsible parties (PRP)—conducted a Remedial Investigation (RI) pursuant to an Administrative Order on Consent (AOC). This RI, conducted during 1989 and 1990, focused on soil and sediment contamination. A voluntary groundwater investigation conducted by MEWSC after issuance of the 1990 EPA Record of Decision identified PCB contamination above risk-based levels at depths to 400 feet below ground surface (bgs). MEWSC completed a Groundwater Design Investigation in 2005, when contaminants originating from MEW, Inc., operations were detected at concentrations that exceeded Maximum Contaminant Levels (MCL) in two distinct aquifers. The deeper fractured bedrock aquifer was found to be contaminated with PCBs and volatile organic compounds (VOC), while the alluvial aquifer was found to be contaminated with VOCs only.

4.0 SITE ACTIVITIES

Seagull conducted sampling activities at the site from March 25 through 27, 2014, in accordance with an approved Quality Assurance Project Plan (QAPP). The Seagull team members who conducted the sampling were Gregory Dillon, Cosmo Canacari, and Quan Do. EPA Region 7 Remedial Project Manager Greg Bach and MDNR Environmental Specialist Jeremy Wall were also on site and assisted with sampling activities.

4.1 MONITORING WELL SAMPLING

For this activity, groundwater samples were collected from eight monitoring wells associated with the site. Figure 2 in Appendix A shows the locations of the monitoring wells sampled. Additionally, for quality control (QC) purposes, one trip blank sample, one equipment rinsate sample, and one field blank sample were prepared. The monitoring wells were purged and sampled by a low-flow technique, which involved pumping each well at a flow rate of 0.1 to 0.5 liter per minute (L/min). For the low-flow sampling, a QED Environmental Systems (QED) bladder pump fitted with a polyethylene bladder and tubing was used. The

polyethylene bladder and tubing were changed between monitoring wells. The stainless steel pump housing was decontaminated between monitoring wells with an Alconox® and tap water solution. Purge water was containerized in a 55-gallon drum and transported off site by Seagull to Inter-Rail Systems Inc., located at 3100 Industrial Fuels Drive in Scott City, Missouri, for proper disposal.

Prior to sampling, depth to groundwater was recorded at each well using a portable electronic water level meter. While purging, field parameters (pH, conductivity, dissolved oxygen, oxidation-reduction potential, temperature) were recorded; once field parameters had stabilized (indicating the purge discharge was representative of aquifer conditions), samples were collected. Low-flow purge sheets containing specific well information for each sample location are included as Appendix B.

All the monitoring well samples were submitted for laboratory analysis of total and dissolved PCBs and also for VOCs. Water samples submitted for analysis of PCBs were collected in 1-liter glass bottles (two each for total and dissolved PCB analyses). Samples for analysis of dissolved PCBs were filtered in the field through 0.45-micron filters. Samples submitted for analysis of VOCs were collected in four 40-milliliter (mL) vials preserved with hydrochloric acid (HCl) to a pH<2. Each of the 40-mL vials was filled so that no head space remained.

Immediately after the samples had been collected, they were placed into coolers containing ice, where they were stored and maintained at a temperature at or below 4 degrees Celsius (°C), pending submittal to ALS Laboratories in Houston, Texas, for laboratory analysis. Table 1 summarizes the samples collected, including sample locations/numbers, monitoring well screened intervals, static water levels, and laboratory analyses requested.

TABLE 1

GROUNDWATER SAMPLE SUMMARY
MISSOURI ELECTRIC WORKS SITE, CAPE GIRARDEAU, MISSOURI

Sample Location/ID	Screened Interval (ft bgs)	Static Water Level (ft btoc)	Laboratory Analysis
WSW-1	Not Known	36.54	PCBs (total and dissolved) and VOCs
MW-3	49-59	35.84	PCBs (total and dissolved) and VOCs
MW-5	35-40	35.04	PCBs (total and dissolved) and VOCs
MW-11	115-120	37.58	PCBs (total and dissolved) and VOCs
MW-12	Open Below 60	37.47	PCBs (total and dissolved) and VOCs
MW-16A	14-19	3.31	PCBs (total and dissolved) and VOCs
MW-16B	69-79	3.57	PCBs (total and dissolved) and VOCs

Sample Location/ID	Screened Interval (ft bgs)	Static Water Level (ft btoc)	Laboratory Analysis
MW-16C	130-140	3.70	PCBs (total and dissolved) and VOCs
Equipment Rinsate	N/A	N/A	PCBs (total and dissolved) and VOCs
Field Blank	N/A	N/A	PCBs (total) and VOCs
Trip Blank	N/A	N/A	VOCs

Notes:

ft bgs	Feet below ground surface
ft btoc	Feet below top of casing
ID	Identification
N/A	Not applicable
PCB	Polychlorinated biphenyl
VOC	Volatile organic compounds

4.2 SOIL SAMPLING

For the sampling activity, 86 soil samples were collected from 29 locations at five previously designated areas, including nine samples from the Upland Area, four from the Ravine Area, two from the Wilson Road South Drainage Ditch, and 14 from the Lowland Area. Figure 2 in Appendix A shows the sample locations. From each of the nine Upland Area, four Ravine Area, and two Wilson Road South Drainage Ditch locations, samples were collected from the top 2 inches of soil and at 6 inches bgs. From the 14 Lowland Area locations, samples were collected from the top 2 inches of soil, and at 6 inches bgs, 1 foot bgs, and 4 or 5 feet bgs.

Soil samples were collected with stainless steel spoons, a handheld spade, or a Geoprobe® Macro-Core soil sampler. The sample collection method was dependent on ground cover (soil, gravel, etc.) and the desired sample depth. The samples collected from the top 2 inches of soil were collected with stainless steel spoons. Samples collected at 6 inches bgs were collected with a spade. All samples below 6 inches bgs were collected with a Geoprobe® Macro-Core soil sampler.

For most of the samples collected with the Geoprobe®, a truck-mounted Geoprobe® was used to drive a Geoprobe® Macro-Core soil sampler fitted with a disposable polyvinyl chloride (PVC) sleeve to the desired sampling depth, up to 5 feet bgs. However, at locations not accessible by truck, the Geoprobe® Macro-Core soil sampler was driven using a Geoprobe® slam bar device. The soil cores were retrieved and logged to determine soil characteristics.

All of the soil samples were submitted for laboratory analysis of PCBs. Soil samples collected with stainless steel spoons or the spade were placed in disposable aluminum pie pans and homogenized prior to transfer to 4-ounce glass jars. Soil samples collected in Geoprobe® Macro-Core soil samplers were removed from the PVC sleeves, placed in disposable aluminum pie pans, and homogenized prior to transfer to 4-ounce glass jars. Following sample collection, excess soil was returned to the respective boreholes. Remaining void space in the boreholes was filled with bentonite. Decontamination of the spade and Geoprobe® samplers and rods was conducted using a tap water and Alconox wash and tap water rinse.

All soil samples were stored in coolers maintained at or below 4 °C pending submittal to ALS Laboratories in Houston, Texas. Table 2 below summarizes the soil samples collected during the sampling activities.

TABLE 2

SOIL SAMPLE SUMMARY
MISSOURI ELECTRIC WORKS SITE, CAPE GIRARDEAU, MISSOURI

Site Area	Sample Locations	Number of Samples Collected	Laboratory Analysis
Upland Area	UA-1 through UA-9	18	PCBs
Ravine Area	RA-1 through RA-4	8	PCBs
Wilson Road Drainage Area	WRSD-1 through WRSD-2	4	PCBs
Lowland Area	LA-1 through LA-14	56	PCBs
Total Number of Soil Samples Collected		**86**	

Notes:

PCB Polychlorinated biphenyls

4.3 FISH TISSUE SAMPLING

One fish tissue sample was collected during site activities to evaluate potential bioaccumulation of site-related contaminants in on-site aquatic fauna. The fish was caught on a fishing line from a pond in the Lowland Area (see Appendix A, Figure 2). The fish was a largemouth bass (sport fish) that was approximately 12 inches in length and approximately 14 ounces (oz) in weight. Attempts to collect additional fish were unsuccessful. Due to the steepness of the pond banks, seining the pond was not attempted.

Upon collection, the fish was wrapped in aluminum foil and stored in a cooler maintained at or below 4 °C until it was submitted to ALS Laboratories in Kelso, Washington. The whole fish was submitted for laboratory analysis of PCBs and lipids.

4.4 QUALITY CONTROL SAMPLES

Three QC samples were collected during the sampling activities. Those QC samples included one trip blank prepared and provided by ALS Laboratories, one equipment rinsate sample of the bladder pump, and one field blank sample. For the equipment rinsate sample, the QED bladder pump was set up in the same configuration used during the monitoring well sampling, and deionized water was pumped from a 3-inch-diameter PVC pipe into the appropriate sample containers. The trip blank was submitted for VOC analysis only. The equipment rinsate and field blank samples were submitted for analysis of PCBs and VOCs.

4.5 DEVIATIONS FROM THE QAPP

Deviations from the QAPP are detailed below.

- Two additional soil samples were collected from the Upland Area than proposed in the QAPP. Those samples were collected to provide more complete geographic coverage of that area. Additionally, the soil sample proposed to be collected from the area adjacent to the building in the Upland Area was not collected because the area was covered by concrete. That sample was moved to a location absent of surface improvements to limit property disturbance.

- Soil samples collected from the Lowland Area were collected from a depth of either 4 or 5 feet bgs. The QAPP stated all samples would be collected from 5 feet bgs. However, due to poor recovery of wet soil from 5 feet bgs using the Geoprobe® Macro-Core soil sampler, the decision to collect some samples from 4 feet bgs was made by EPA and the Seagull Field Project Manager.

5.0 SUMMARY

Seagull conducted sampling at the MEW site from March 25 through 27, 2014. The sampling activities were conducted as part of the 5-year review for the MEW site. The purpose of the sampling was to collect data for ongoing site evaluation as part of the remedial process. Sampling activities involved collection of eight groundwater samples, 86 soil samples, and one fish tissue sample. The groundwater samples were collected from eight monitoring wells associated with the site, using a low-flow technique. The soil samples were collected from 29 locations, including nine from the Upland Area, four from the Ravine Area, two from Wilson Road South Drainage Ditch, and 14 from the Lowland Area. The fish tissue sample consisted of a largemouth bass caught from a pond in the Lowland Area. Additionally, three QC samples, which included one water trip blank sample, and one water equipment rinsate sample, and one

water field blank sample, were prepared. The soil and groundwater samples were submitted to ALS Laboratories in Houston, Texas; the groundwater samples were analyzed for PCBs and VOCs, and the soil samples were analyzed for PCBs only. The fish tissue sample was submitted to ALS Laboratories in Kelso, Washington, for analysis of PCBs and lipids. The soil and groundwater analytical results are included as Appendix C. The fish tissue analytical results are included as Appendix D.

6.0 REFERENCES

United States Environmental Protection Agency (EPA). 2011. Quality Assurance Project Plan for Continued Monitored Natural Attenuation Sampling for Missouri Electric Works; Cape Girardeau, Missouri.

EPA. 2012. Region 7 Cleanup NPL Files. http://www.epa.gov/region7/cleanup/npl_files/mod980965982.pdf

APPENDIX A

FIGURES

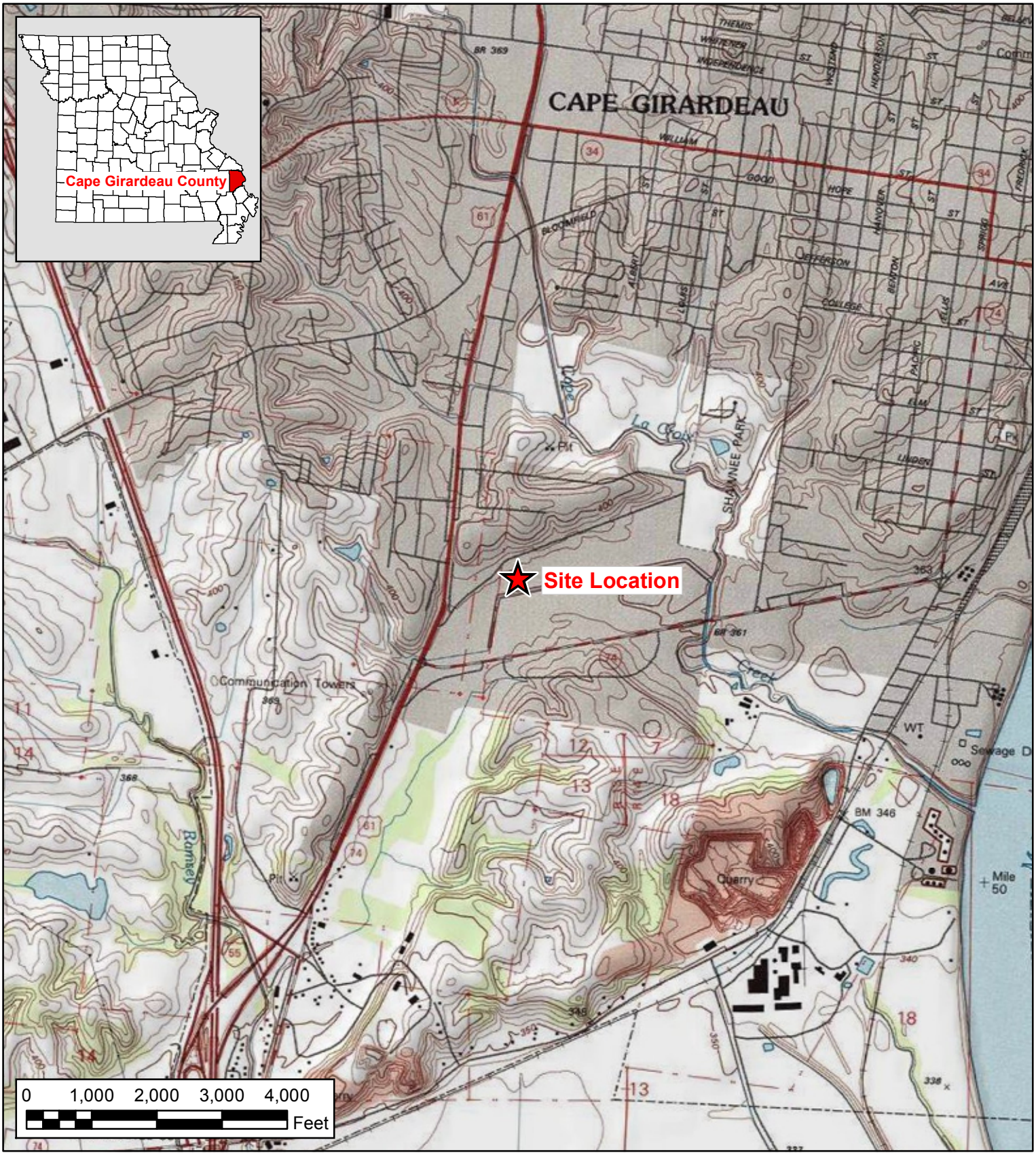


Figure 1
Site Location Map
Missouri Electric Works OU2 Site
Cape Girardeau, Missouri

N
W E
S

Seagull Environmental Technologies, Inc.

Source: USGS Cape Girardeau, MO-IL 7.5 Minute Topo Quad, 1976

Date: January 2014

Project No: EPS71204.0016

C:\GIS_Workspace\Seagull\EPS71204\0016\Projects\mxd\Figure1_012814.mxd

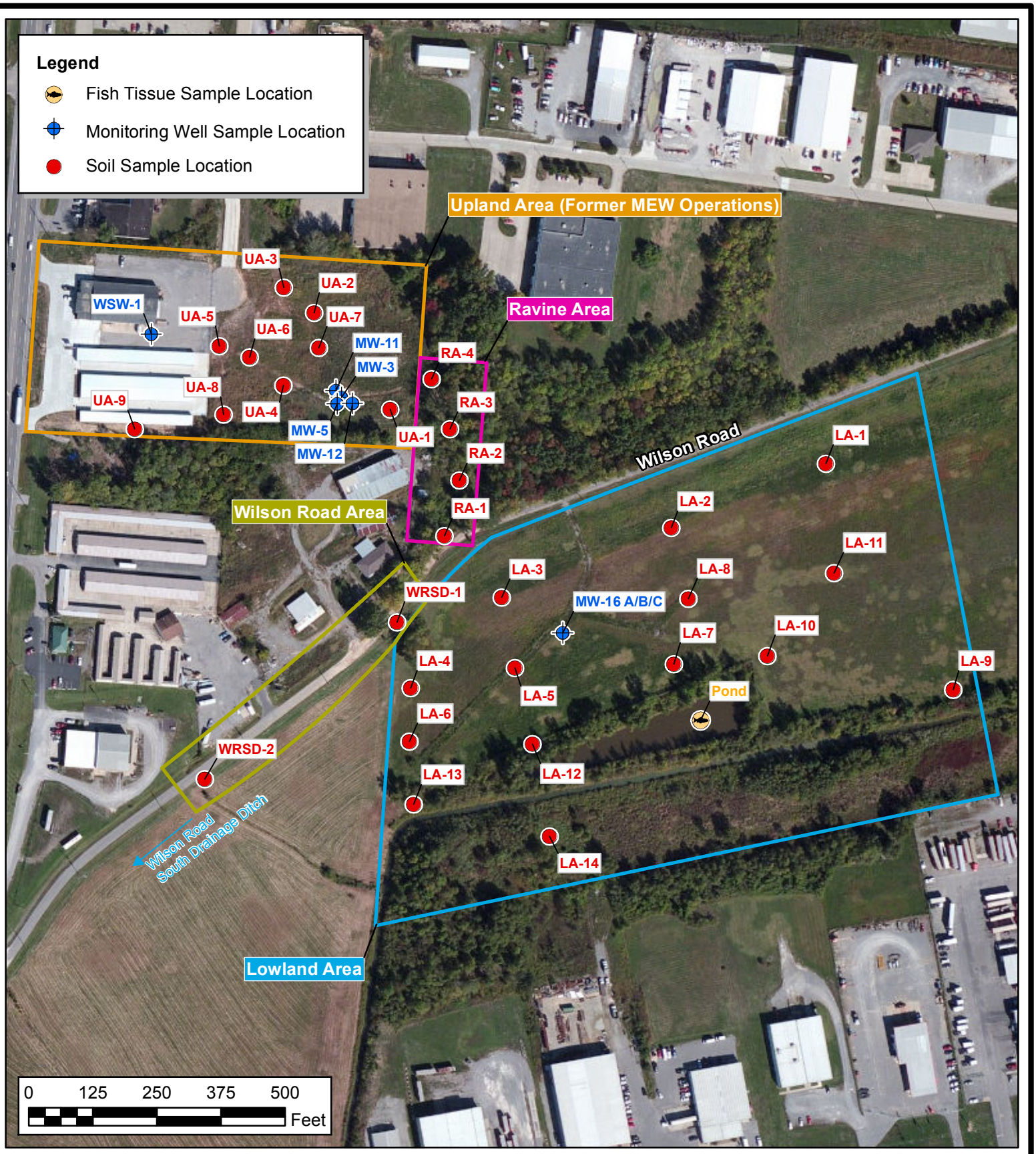


Figure 2
Sample Location Map
Missouri Electric Works OU2 Site
Cape Girardeau, Missouri

Seagull Environmental Technologies, Inc.

Source: ArcGIS Online World Imagery, 2011

Date: May 2014

Project No: EPS71204.0016

C:\GIS_Workspace\Consulting\Seagull\EPS71204\0016\Projects\mxd\Figure2_051114.mxd

APPENDIX B

LOW-FLOW PURGE FIELD SHEETS

Seagull Environmental Technologies, Inc.

Micropurging Groundwater Sampling Data Sheet

Well Name	MW-1	Sample Personnel	Dillon / Cameron GD / CC	Screen Interval	Unknown
Project	MEW	Sample ID		Static Water Level	36.54
Project No.	EPS 71204.001K	Duplicate ID		Well Depth (TOC)	150
Sample Date	03/27/14			Feet of Water	

Condition of Well		Flush Mount or Stickup	Flush Mount
Construction		Well Size	
Remarks		Casing - PvC or other	

Purging

Time	Discharge Rate	Dissolved Oxygen (mg/L)	pH	Eh/ORP (mv)	Temp (°C)	Specific Conduct (µmhos/cm at °C)	Turbidity	Cumulative Volume of Water Removed (Purged) (gallons)	Comments
1315	- Begin purge								
13:20	0.3 L/m	0.88	7.09	-5.3	15.93	0.989	49.2 NTU		
13:25	0.3 L/m	0.60	7.03	-7.7	15.97	0.990	38.2 NTU		
13:30	0.3 L/m	0.47	6.86	-16.1	16.01	0.989	44.5 NTU		
13:35	0.3 L/m	0.29	6.85	-17.5	15.98	0.988	49.4 NTU		
13:40	0.3 L/m	0.20	6.79	-24.5	15.94	0.975	57.7 NTU		
13:45	0.3 L/m	0.17	6.78	-28.1	15.71	0.966	49.6 NTU		
13:50	0.3 L/m	0.15	6.78	-29.9	15.70	0.954	50.8 NTU		
13:55	0.3 L/m	0.14	6.78	-31.0	15.72	0.950	50.0 NTU		

Seagull Environmental Technologies, Inc.

Micropurging Groundwater Sampling Data Sheet

Well Name	MW-3	Sample Personnel	Brian Canecari	Screen Interval	49-59
Project	MEW	Sample ID	MW-3-GW	Static Water Level	~~38~~ 35.84'
Project No.	EPS71204.0014	Duplicate ID		Well Depth (TOC)	60'
Sample Date	03/26/14			Feet of Water	34.16'

Condition of Well	Fair	Flush Mount or Stickup	Stickup
Construction	Cover with Cap	Well Size	2"
Remarks		Casing - PvC or other	PVC

Purging

Time	Discharge Rate	Dissolved Oxygen (mg/L)	pH	Eh/ORP (mv)	Temp (°C)	Specific Conduct (umhos/cm at °C)	Turbidity	Cumulative Volume of Water Removed (Purged) (gallons)	Comments
1615	Begin purge								
16:20	0.3L/m	0.65	6.69	-67.7	15.57	0.946	8.92 NTU		
16:25	0.3L/m	0.51	6.68	-76.2	15.42	0.932	9.72 NTU		
16:30	0.3L/m	0.34	6.70	-83.7	15.33	0.931	5.64 NTU		
16:35	0.3L/m	0.26	6.71	-89.3	15.34	0.936	2.45 NTU		
16:40	0.3L/m	0.22	6.71	-92.3	15.33	0.942	2.30 NTU		
16:45	0.3L/m	0.18	6.70	-93.1	15.08	0.951	2.30 NTU		
16:50	0.3L/m	0.19	6.70	-93.4	15.21	0.950	1.79 NTU		
16:55	0.3L/m	0.14	6.71	-95.2	15.07	0.954	3.88 NTU		
~~17:00~~									

Seagull Environmental Technologies, Inc.

Micropurging Groundwater Sampling Data Sheet

Well Name	MW-5	Sample Personnel	Dillon / Camacaro	Screen Interval	35-40
Project	MEW	Sample ID	MW-5-GW	Static Water Level	35.04
Project No.	EP57/204.004	Duplicate ID		Well Depth (TOC)	41
Sample Date	03/26/14			Feet of Water	5.96

Condition of Well	Fair	Flush Mount or Stickup	Stickup
Construction	Cover with Cap	Well Size	2"
Remarks		Casing - PvC or other	PVC

Purging

Time	Discharge Rate	Dissolved Oxygen (mg/L)	pH	Eh/ORP (mv)	Temp (°C)	Specific Conduct (µmhos/cm at °C)	Turbidity	Cumulative Volume of Water Removed (Purged) (gallons)	Comments
17:45	Start Purge								
17:50	0.3 L/m	1.25	6.91	4.0	13.94	0.665	21.1 NTU		
17:55	0.3 L/m	1.13	6.78	4.5	13.89	0.665	16.1 NTU		
18:00	0.3 L/m	1.15	6.74	3.7	13.84	0.667	10.61 NTU		
18:05	0.3 L/m	1.20	6.66	-2.5	13.78	0.677	8.05 NTU		
18:10	0.3 L/m	1.15	6.63	-5.6	13.66	0.682	5.47 NTU		
18:15	0.3 L/m	1.11	6.62	-5.2	13.64	0.685	4.17 NTU		
18:20	0.3 L/m	1.14	6.61	-4.8	13.60	0.691	2.61 NTU		
18:25	0.3 L/m	1.10	6.61	-3.9	13.57	0.692	4.46 NTU		

Seagull Environmental Technologies, Inc.

Micropurging Groundwater Sampling Data Sheet

Well Name	MW-11	Sample Personnel	Canzcan' Dillon	Screen Interval	
Project	MEW	Sample ID	MW-11-GW	Static Water Level	37.58
Project No.	EPS71204.0014	Duplicate ID		Well Depth (TOC)	120
Sample Date	03/27/14			Feet of Water	

Condition of Well	PVC casing damaged	Flush Mount or Stickup	Stickup
Construction	Covar	Well Size	2"
Remarks		Casing - PvC or other	PVC

Purging

Time	Discharge Rate	Dissolved Oxygen (mg/L)	pH	Eh/ORP (mv)	Temp (°C)	Specific Conduct (µmhos/cm at °C)	Turbidity	Cumulative Volume of Water Removed (Purged) (gallons)	Comments
~~0920 – Begin purge~~			~~7.04~~	~~75~~		~~0.565~~	~~96.0 NTU~~		
09:25	0.3 L/m	1.71	7.04	75.06	14.10	0.565	96.0 NTU		
09:30	0.3 L/m	1.15	6.93	22.2	14.06	0.568	163 NTU		
09:35	0.3 L/m	0.80	6.90	0.5	14.07	0.569	174 NTU		
09:40	0.3 L/m	0.57	6.92	-17.4	14.05	0.570	185 NTU		
09:45	0.3 L/m	0.50	6.91	-27.8	14.08	0.570	198 NTU		
09:50	0.3 L/m	0.44	6.91	-34.4	14.15	0.571	173 NTU		
09:55	0.3 L/m	0.36	6.91	-42.6	14.11	0.572	181 NTU		
10:00	0.3 L/m	0.34	6.92	-47.1	14.15	0.566	209 NTU		

Seagull Environmental Technologies, Inc.

Micropurging Groundwater Sampling Data Sheet

Well Name	MW-12	Sample Personnel	Dillon/Conaari	Screen Interval	Open below 60
Project	MEW	Sample ID	MW-12-GW	Static Water Level	37.47
Project No.	EPS71204.0014	Duplicate ID		Well Depth (TOC)	68
Sample Date				Feet of Water	30.53

Condition of Well	Good	Flush Mount or Stickup	Stickup
Construction	Cover with Cap	Well Size	6"
Remarks		Casing - PvC or other	Steel

Purging

Time	Discharge Rate	Dissolved Oxygen (mg/L)	pH	Eh/ORP (mv)	Temp (°C)	Specific Conduct (µmhos/cm at °C)	Turbidity	Cumulative Volume of Water Removed (Purged) (gallons)	Comments
1140 -	Begin purge								
11:45	0.3L/m	0.89	6.91	-116.0	14.05	1.128	19.7 NTU		
11:50	0.3L/m	0.45	6.91	-128.9	14.28	1.116	10.28 NTU		
11:55	0.3L/m	0.29	6.96	-137.9	14.39	1.044	10.53 NTU		
12:00	0.3L/m	0.26	6.98	-143.6	14.43	0.956	12.6 NTU		
12:05	0.3L/m	0.27	6.96	-141.9	14.38	0.950	14.5 NTU		
12:10	0.3L/m	0.25	6.90	-137.0	14.37	0.982	13.7 NTU		
12:15	0.3L/m	0.25	6.84	-131.8	14.30	1.037	17.2 NTU		
12:20	0.3L/m	0.20	6.82	-128.8	14.28	1.075	18.2 NTU		

Seagull Environmental Technologies, Inc.

Micropurging Groundwater Sampling Data Sheet

Well Name	MW-16A	Sample Personnel	Dillon	Screen Interval	14'-19'
Project	MEW	Sample ID	MW-16A-GW	Static Water Level	~~3.76~~ 3.31
Project No.	EPS71204.0014	Duplicate ID		Well Depth (TOC)	19
Sample Date	03/2			Feet of Water	15.69

Condition of Well	Good	Flush Mount or Stickup	Stickup
Construction		Well Size	2"
Remarks		Casing - PvC or other	PVC

Purging

Time	Discharge Rate	Dissolved Oxygen (mg/L)	pH	Eh/ORP (mv)	Temp (°C)	Specific Conduct (µmhos/cm at °C)	Turbidity	Cumulative Volume of Water Removed (Purged) (gallons)	Comments
Purge Time 10:56	0.3L/m	0.91	7.12	-26.8	11.47°C	0.515	193 NTU		
11:01	0.3L/m	0.47	7.12	-45.6	11.52°C	0.516	165 NTU		
11:06 ~~11:00~~	0.3L/m	0.29	7.12	-65.7	11.76	0.515	141 NTU		
11:11	0.3L/m	0.27	7.11	-70.8	11.84	0.514	116 NTU		
11:16	0.3L/m	0.23	7.11	-72.6	11.93	0.513	100.8 NTU		
11:21	0.3L/m	0.25	7.11	-80.6	12.02	0.514	94.5 NTU		
11:26	0.3L/m	0.35	7.10	-91.2	12.16	0.513	69.5 NTU		
11:31	0.3L/m	0.49	7.10	-96.1	12.20	0.514	49.7 NTU		
11:36	0.3L/m	0.45	7.10	-102.0	12.27	0.512	48.5 NTU		
11:41	0.3L/m	0.24	7.09	-104.3	12.32	0.513	35.9 NTU		

Seagull Environmental Technologies, Inc.

Micropurging Groundwater Sampling Data Sheet

Well Name	MW-16B	Sample Personnel	Dillon	Screen Interval	69'-74'
Project	MEW	Sample ID	MW-16B-GW	Static Water Level	3.57
Project No.	EPS71204.0041	Duplicate ID		Well Depth (TOC)	79'
Sample Date	03/26/2014			Feet of Water	75.43

Condition of Well	Good	Flush Mount or Stickup	Stick up
Construction	Cover & Cap	Well Size	2"
Remarks		Casing - PvC or other	PVC

Purging

Time	Discharge Rate	Dissolved Oxygen (mg/L)	pH	Eh/ORP (mv)	Temp (°C)	Specific Conduct (µmhos/cm at °C)	Turbidity	Cumulative Volume of Water Removed (Purged) (gallons)	Comments
Purge time 13:15	0.3 L/m								
13:20	0.3 L/m	2.31	6.94	28.1	13.67	0.553	198 NTU		
13:25	0.3 L/m	1.95	6.92	29.5	13.70	0.554	207 NTU		
13:30	0.3 L/m	1.73	6.91	31.0	13.76	0.554	165 NTU		
13:35	0.3 L/m	1.58	6.90	31.9	13.94	0.554	155 NTU		
13:40	0.3 L/m	1.51	6.90	33.1	13.95	0.554	134 NTU		
13:45	0.3 L/m	1.52	6.89	34.2	14.05	0.554	118 NTU		
13:50	0.3 L/m	1.54	6.89	35.6	14.06	0.555	89.4		
13:55	0.3 L/m	1.59	6.88	36.1	13.96	0.555	80.3		
14:00	0.3 L/m	1.59	6.89	39.3	14.01	0.555	86.5		

Seagull Environmental Technologies, Inc.

Micropurging Groundwater Sampling Data Sheet

Well Name	MW-16C	Sample Personnel	D. Ilon	Screen Interval	130-140'
Project	MEW	Sample ID	MW-16C-GW	Static Water Level	3.70'
Project No.	EPS71204.014	Duplicate ID		Well Depth (TOC)	141'
Sample Date	03/26/13			Feet of Water	

Condition of Well	Good	Flush Mount or Stickup	Stickup
Construction	Cover with Cap	Well Size	2"
Remarks		Casing - PvC or other	PVC

Purging

Time	Discharge Rate	Dissolved Oxygen (mg/L)	pH	Eh/ORP (mv)	Temp (°C)	Specific Conduct (µmhos/cm at °C)	(NTU) Turbidity	Cumulative Volume of Water Removed (Purged) (gallons)	Comments
0920	0.3 L/m	Begin purge							
09:37	0.3 L/m	0.39 mg/L	6.97	66.5	12.68	0.449	126 NTU		
09:42	0.3 L/m	0.36 mg/L	7.11	-82.9	12.79	0.458	81.7 NTU		
09:47	0.3 L/m	0.30 mg/L	7.13	-88.6	12.99	0.459	68.3 NTU		
09:52	0.3 L/m	0.31 mg/L	7.14	-93.8	13.04	0.463	56.4 NTU		
09:57	0.3 L/m	0.31 mg/L	7.15	-95.0	13.20	0.467	47.4 NTU		
10:02	0.3 L/m	0.39 mg/L	7.12	-93.4	12.98	0.469	41.2 NTU		
10:07	0.3 L/m	0.33 mg/L	7.13	-98.0	13.03	0.475	38.3 NTU		
10:12	0.3 L/m	0.34 mg/L	7.14	-92.7	12.94	0.475	36.0 NTU		
10:17	0.3 L/m	0.42	7.13	-90.8	13.04	0.475	40.1 NTU		

APPENDIX C

SOIL AND GROUNDWATER ANALYTICAL RESULTS

10450 Stancliff Rd. Suite 210
Houston, TX 77099
T: +1 281 530 5656
F: +1 281 530 5887
www.alsglobal.com

April 21, 2014

Jeff Pritchard
Seagull Environmental Technologies, Inc.
415 Oak Street
Kansas City, MO 64106

Work Order: **HS14031226**

Laboratory Results for: **Missouri Electric Works**

Dear Jeff,

ALS Environmental received 56 sample(s) on Mar 29, 2014 for the analysis presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

Generated By: Bernadette.Fini

Bernadette A. Fini
Project Manager

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Seagull Environmental Technologies, Inc.
Project: Missouri Electric Works
Work Order: HS14031226

SAMPLE SUMMARY

Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS14031226-01	LA-01-SS	Soil		25-Mar-2014 10:25	29-Mar-2014 10:15	☐
HS14031226-02	LA-01-6"	Soil		25-Mar-2014 10:27	29-Mar-2014 10:15	☐
HS14031226-03	LA-01-1'	Soil		25-Mar-2014 10:40	29-Mar-2014 10:15	☐
HS14031226-04	LA-01-5'	Soil		25-Mar-2014 10:42	29-Mar-2014 10:15	☐
HS14031226-05	LA-02-SS'	Soil		25-Mar-2014 12:10	29-Mar-2014 10:15	☐
HS14031226-06	LA-02-6"	Soil		25-Mar-2014 12:12	29-Mar-2014 10:15	☐
HS14031226-07	LA-02-1'	Soil		25-Mar-2014 12:16	29-Mar-2014 10:15	☐
HS14031226-08	LA-02-5'	Soil		25-Mar-2014 12:14	29-Mar-2014 10:15	☐
HS14031226-09	LA-03-SS	Soil		25-Mar-2014 12:26	29-Mar-2014 10:15	☐
HS14031226-10	LA-03-6"	Soil		25-Mar-2014 12:28	29-Mar-2014 10:15	☐
HS14031226-11	LA-03-1'	Soil		25-Mar-2014 12:30	29-Mar-2014 10:15	☐
HS14031226-12	LA-03-5'	Soil		25-Mar-2014 12:32	29-Mar-2014 10:15	☐
HS14031226-13	LA-04-SS	Soil		25-Mar-2014 12:40	29-Mar-2014 10:15	☐
HS14031226-14	LA-04-6"	Soil		25-Mar-2014 12:42	29-Mar-2014 10:15	☐
HS14031226-15	LA-04-1'	Soil		25-Mar-2014 12:45	29-Mar-2014 10:15	☐
HS14031226-16	LA-04-4'	Soil		25-Mar-2014 12:47	29-Mar-2014 10:15	☐
HS14031226-17	LA-05-SS	Soil		25-Mar-2014 14:00	29-Mar-2014 10:15	☐
HS14031226-18	LA-05-6"	Soil		25-Mar-2014 14:02	29-Mar-2014 10:15	☐
HS14031226-19	LA-05-1'	Soil		25-Mar-2014 14:04	29-Mar-2014 10:15	☐
HS14031226-20	LA-05-5'	Soil		25-Mar-2014 14:08	29-Mar-2014 10:15	☐
HS14031226-21	LA-06-SS	Soil		25-Mar-2014 14:14	29-Mar-2014 10:15	☐
HS14031226-22	LA-06-6"	Soil		25-Mar-2014 14:16	29-Mar-2014 10:15	☐
HS14031226-23	LA-06-1'	Soil		25-Mar-2014 14:18	29-Mar-2014 10:15	☐
HS14031226-24	LA-06-5'	Soil		25-Mar-2014 14:20	29-Mar-2014 10:15	☐
HS14031226-25	LA-07-SS	Soil		25-Mar-2014 14:45	29-Mar-2014 10:15	☐
HS14031226-26	LA-07-6"	Soil		25-Mar-2014 14:47	29-Mar-2014 10:15	☐
HS14031226-27	LA-07-1'	Soil		25-Mar-2014 14:49	29-Mar-2014 10:15	☐

RIGHT SOLUTIONS | RIGHT PARTNER

HS14031226-28	LA-07-5'	Soil	25-Mar-2014 14:51	29-Mar-2014 10:15	☐
HS14031226-29	LA-08-SS	Soil	25-Mar-2014 15:02	29-Mar-2014 10:15	☐
HS14031226-30	LA-08-6"	Soil	25-Mar-2014 15:04	29-Mar-2014 10:15	☐
HS14031226-31	LA-08-1'	Soil	25-Mar-2014 15:06	29-Mar-2014 10:15	☐
HS14031226-32	LA-08-5'	Soil	25-Mar-2014 15:08	29-Mar-2014 10:15	☐
HS14031226-33	LA-09-SS	Soil	25-Mar-2014 15:40	29-Mar-2014 10:15	☐
HS14031226-34	LA-09-6"	Soil	25-Mar-2014 15:42	29-Mar-2014 10:15	☐
HS14031226-35	LA-09-1'	Soil	25-Mar-2014 15:44	29-Mar-2014 10:15	☐
HS14031226-36	LA-09-4'	Soil	25-Mar-2014 15:46	29-Mar-2014 10:15	☐
HS14031226-37	LA-10-SS	Soil	25-Mar-2014 16:00	29-Mar-2014 10:15	☐
HS14031226-38	LA-10-6"	Soil	25-Mar-2014 16:02	29-Mar-2014 10:15	☐
HS14031226-39	LA-10-1'	Soil	25-Mar-2014 16:04	29-Mar-2014 10:15	☐
HS14031226-40	LA-10-4'	Soil	25-Mar-2014 16:06	29-Mar-2014 10:15	☐
HS14031226-41	LA-11-SS	Soil	25-Mar-2014 16:26	29-Mar-2014 10:15	☐
HS14031226-42	LA-11-6"	Soil	25-Mar-2014 16:28	29-Mar-2014 10:15	☐
HS14031226-43	LA-11-1'	Soil	25-Mar-2014 16:30	29-Mar-2014 10:15	☐
HS14031226-44	LA-11-4'	Soil	25-Mar-2014 16:32	29-Mar-2014 10:15	☐
HS14031226-45	LA-12-SS	Soil	25-Mar-2014 16:52	29-Mar-2014 10:15	☐
HS14031226-46	LA-12-6'	Soil	25-Mar-2014 16:54	29-Mar-2014 10:15	☐
HS14031226-47	LA-12-1'	Soil	25-Mar-2014 16:56	29-Mar-2014 10:15	☐
HS14031226-48	LA-12-4'	Soil	25-Mar-2014 16:58	29-Mar-2014 10:15	☐
HS14031226-49	LA-13-SS	Soil	25-Mar-2014 17:16	29-Mar-2014 10:15	☐
HS14031226-50	LA-13-6"	Soil	25-Mar-2014 17:18	29-Mar-2014 10:15	☐
HS14031226-51	LA-13-1'	Soil	25-Mar-2014 17:20	29-Mar-2014 10:15	☐
HS14031226-52	LA-13-4'	Soil	25-Mar-2014 17:22	29-Mar-2014 10:15	☐
HS14031226-53	LA-14-SS	Soil	25-Mar-2014 17:48	29-Mar-2014 10:15	☐
HS14031226-54	LA-14-6"	Soil	25-Mar-2014 17:50	29-Mar-2014 10:15	☐
HS14031226-55	LA-14-1'	Soil	25-Mar-2014 17:52	29-Mar-2014 10:15	☐
HS14031226-56	LA-14-4'	Soil	25-Mar-2014 17:54	29-Mar-2014 10:15	☐

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Seagull Environmental Technologies, Inc.
Project: Missouri Electric Works
Work Order: HS14031226

CASE NARRATIVE

Batch 80520, PCB Method 8082, SampID HS14031226-38: 2xs normal surrogate amount added.

Batch 80522, PCB Method 8082, SampID HS14031226-42: 2xs normal surrogate amount added.

Batch 80522, PCB Method 8082, SampID HS14031226-44: 2xs normal surrogate amount added.

Batch 80522, PCB Method 8082, SampID HS14031226-51: 2xs normal surrogate amount added.

Batch 80522, PCB Method 8082, SampID HS14031226-53: Surrogate recoveries out of control due to dilution.

Batch 80522, PCB Method 8082, SampID HS14031226-54: Surrogate recoveries out of control due to dilution.

Batch 80522, PCB Method 8082, SampID HS14031226-56: Surrogate recoveries out of control due to dilution.

Batch 80522, PCB Method 8082, SampID HS14031226-24,-53, -54, -55 and -56: These samples were analyzed at a dilution due to the level of Aroclor detected. Reporting limits were adjusted accordingly.

RIGHT SOLUTIONS | RIGHT PARTNER

ANALYTICAL REPORT

Client: Seagull Environmental Technologies, Inc.
Project: Missouri Electric Works
Sample ID: LA-01-SS
Collection Date: 25-Mar-2014 10:25

WorkOrder:HS14031226
Lab ID:HS14031226-01
Matrix:Soil

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
PCBS BY SW8082A		**Method:SW8082**		Prep:SW3541/3665A / 08-Apr-2014		Analyst: JLJ
Aroclor 1016	ND		17	ug/Kg	1	10-Apr-2014 22:54
Aroclor 1221	ND		17	ug/Kg	1	10-Apr-2014 22:54
Aroclor 1232	ND		17	ug/Kg	1	10-Apr-2014 22:54
Aroclor 1242	ND		17	ug/Kg	1	10-Apr-2014 22:54
Aroclor 1248	ND		17	ug/Kg	1	10-Apr-2014 22:54
Aroclor 1254	ND		17	ug/Kg	1	10-Apr-2014 22:54
Aroclor 1260	ND		17	ug/Kg	1	10-Apr-2014 22:54
Surr: Decachlorobiphenyl	*93.9*		*54-143*	*%REC*	*1*	*10-Apr-2014 22:54*
Surr: Tetrachloro-m-xylene	*84.6*		*55-137*	*%REC*	*1*	*10-Apr-2014 22:54*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

ANALYTICAL REPORT

Client: Seagull Environmental Technologies, Inc.
Project: Missouri Electric Works
Sample ID: LA-01-6"
Collection Date: 25-Mar-2014 10:27

WorkOrder:HS14031226
Lab ID:HS14031226-02
Matrix:Soil

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
PCBS BY SW8082A		**Method:SW8082**		Prep:SW3541/3665A / 08-Apr-2014		Analyst: JLJ
Aroclor 1016	ND		17	ug/Kg	1	10-Apr-2014 23:39
Aroclor 1221	ND		17	ug/Kg	1	10-Apr-2014 23:39
Aroclor 1232	ND		17	ug/Kg	1	10-Apr-2014 23:39
Aroclor 1242	ND		17	ug/Kg	1	10-Apr-2014 23:39
Aroclor 1248	ND		17	ug/Kg	1	10-Apr-2014 23:39
Aroclor 1254	ND		17	ug/Kg	1	10-Apr-2014 23:39
Aroclor 1260	ND		17	ug/Kg	1	10-Apr-2014 23:39
Surr: Decachlorobiphenyl	*112*		*54-143*	*%REC*	*1*	*10-Apr-2014 23:39*
Surr: Tetrachloro-m-xylene	*97.5*		*55-137*	*%REC*	*1*	*10-Apr-2014 23:39*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

ANALYTICAL REPORT

Client: Seagull Environmental Technologies, Inc.
Project: Missouri Electric Works
Sample ID: LA-01-1'
Collection Date: 25-Mar-2014 10:40

WorkOrder:HS14031226
Lab ID:HS14031226-03
Matrix:Soil

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
PCBS BY SW8082A		**Method:SW8082**		Prep:SW3541/3665A / 08-Apr-2014		Analyst: JLJ
Aroclor 1016	ND		17	ug/Kg	1	10-Apr-2014 23:54
Aroclor 1221	ND		17	ug/Kg	1	10-Apr-2014 23:54
Aroclor 1232	ND		17	ug/Kg	1	10-Apr-2014 23:54
Aroclor 1242	ND		17	ug/Kg	1	10-Apr-2014 23:54
Aroclor 1248	ND		17	ug/Kg	1	10-Apr-2014 23:54
Aroclor 1254	ND		17	ug/Kg	1	10-Apr-2014 23:54
Aroclor 1260	ND		17	ug/Kg	1	10-Apr-2014 23:54
Surr: Decachlorobiphenyl	*103*		*54-143*	*%REC*	*1*	*10-Apr-2014 23:54*
Surr: Tetrachloro-m-xylene	*87.4*		*55-137*	*%REC*	*1*	*10-Apr-2014 23:54*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

ANALYTICAL REPORT

Client: Seagull Environmental Technologies, Inc.
Project: Missouri Electric Works
Sample ID: LA-01-5'
Collection Date: 25-Mar-2014 10:42

WorkOrder:HS14031226
Lab ID:HS14031226-04
Matrix:Soil

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
PCBS BY SW8082A		**Method:SW8082**		Prep:SW3541/3665A / 08-Apr-2014		Analyst: JLJ
Aroclor 1016	ND		17	ug/Kg	1	11-Apr-2014 00:09
Aroclor 1221	ND		17	ug/Kg	1	11-Apr-2014 00:09
Aroclor 1232	ND		17	ug/Kg	1	11-Apr-2014 00:09
Aroclor 1242	ND		17	ug/Kg	1	11-Apr-2014 00:09
Aroclor 1248	ND		17	ug/Kg	1	11-Apr-2014 00:09
Aroclor 1254	ND		17	ug/Kg	1	11-Apr-2014 00:09
Aroclor 1260	ND		17	ug/Kg	1	11-Apr-2014 00:09
Surr: Decachlorobiphenyl	*115*		*54-143*	*%REC*	*1*	*11-Apr-2014 00:09*
Surr: Tetrachloro-m-xylene	*97.1*		*55-137*	*%REC*	*1*	*11-Apr-2014 00:09*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

ANALYTICAL REPORT

Client: Seagull Environmental Technologies, Inc.
Project: Missouri Electric Works
Sample ID: LA-02-SS'
Collection Date: 25-Mar-2014 12:10

WorkOrder:HS14031226
Lab ID:HS14031226-05
Matrix:Soil

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
PCBS BY SW8082A		**Method:SW8082**		Prep:SW3541/3665A / 08-Apr-2014		Analyst: JLJ
Aroclor 1016	ND		17	ug/Kg	1	11-Apr-2014 00:25
Aroclor 1221	ND		17	ug/Kg	1	11-Apr-2014 00:25
Aroclor 1232	ND		17	ug/Kg	1	11-Apr-2014 00:25
Aroclor 1242	ND		17	ug/Kg	1	11-Apr-2014 00:25
Aroclor 1248	ND		17	ug/Kg	1	11-Apr-2014 00:25
Aroclor 1254	ND		17	ug/Kg	1	11-Apr-2014 00:25
Aroclor 1260	ND		17	ug/Kg	1	11-Apr-2014 00:25
Surr: Decachlorobiphenyl	*100*		*54-143*	*%REC*	*1*	*11-Apr-2014 00:25*
Surr: Tetrachloro-m-xylene	*86.9*		*55-137*	*%REC*	*1*	*11-Apr-2014 00:25*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

ANALYTICAL REPORT

Client: Seagull Environmental Technologies, Inc.
Project: Missouri Electric Works
Sample ID: LA-02-6"
Collection Date: 25-Mar-2014 12:12

WorkOrder:HS14031226
Lab ID:HS14031226-06
Matrix:Soil

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
PCBS BY SW8082A		**Method:SW8082**		Prep:SW3541/3665A / 08-Apr-2014		Analyst: JLJ
Aroclor 1016	ND		17	ug/Kg	1	11-Apr-2014 00:40
Aroclor 1221	ND		17	ug/Kg	1	11-Apr-2014 00:40
Aroclor 1232	ND		17	ug/Kg	1	11-Apr-2014 00:40
Aroclor 1242	ND		17	ug/Kg	1	11-Apr-2014 00:40
Aroclor 1248	ND		17	ug/Kg	1	11-Apr-2014 00:40
Aroclor 1254	ND		17	ug/Kg	1	11-Apr-2014 00:40
Aroclor 1260	ND		17	ug/Kg	1	11-Apr-2014 00:40
Surr: Decachlorobiphenyl	*105*		*54-143*	*%REC*	*1*	*11-Apr-2014 00:40*
Surr: Tetrachloro-m-xylene	*96.2*		*55-137*	*%REC*	*1*	*11-Apr-2014 00:40*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

ANALYTICAL REPORT

Client: Seagull Environmental Technologies, Inc.
Project: Missouri Electric Works
Sample ID: LA-02-1'
Collection Date: 25-Mar-2014 12:16

WorkOrder:HS14031226
Lab ID:HS14031226-07
Matrix:Soil

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
PCBS BY SW8082A		**Method:SW8082**		Prep:SW3541/3665A / 08-Apr-2014		Analyst: JLJ
Aroclor 1016	ND		17	ug/Kg	1	10-Apr-2014 00:51
Aroclor 1221	ND		17	ug/Kg	1	10-Apr-2014 00:51
Aroclor 1232	ND		17	ug/Kg	1	10-Apr-2014 00:51
Aroclor 1242	ND		17	ug/Kg	1	10-Apr-2014 00:51
Aroclor 1248	ND		17	ug/Kg	1	10-Apr-2014 00:51
Aroclor 1254	ND		17	ug/Kg	1	10-Apr-2014 00:51
Aroclor 1260	ND		17	ug/Kg	1	10-Apr-2014 00:51
Surr: Decachlorobiphenyl	*118*		*54-143*	*%REC*	*1*	*10-Apr-2014 00:51*
Surr: Tetrachloro-m-xylene	*106*		*55-137*	*%REC*	*1*	*10-Apr-2014 00:51*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

ANALYTICAL REPORT

Client: Seagull Environmental Technologies, Inc.
Project: Missouri Electric Works
Sample ID: LA-02-5'
Collection Date: 25-Mar-2014 12:14

WorkOrder:HS14031226
Lab ID:HS14031226-08
Matrix:Soil

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
PCBS BY SW8082A		**Method:SW8082**		Prep:SW3541/3665A / 08-Apr-2014		Analyst: JLJ
Aroclor 1016	ND		17	ug/Kg	1	10-Apr-2014 02:06
Aroclor 1221	ND		17	ug/Kg	1	10-Apr-2014 02:06
Aroclor 1232	ND		17	ug/Kg	1	10-Apr-2014 02:06
Aroclor 1242	ND		17	ug/Kg	1	10-Apr-2014 02:06
Aroclor 1248	ND		17	ug/Kg	1	10-Apr-2014 02:06
Aroclor 1254	ND		17	ug/Kg	1	10-Apr-2014 02:06
Aroclor 1260	ND		17	ug/Kg	1	10-Apr-2014 02:06
Surr: Decachlorobiphenyl	*117*		*54-143*	*%REC*	*1*	*10-Apr-2014 02:06*
Surr: Tetrachloro-m-xylene	*106*		*55-137*	*%REC*	*1*	*10-Apr-2014 02:06*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

ANALYTICAL REPORT

Client: Seagull Environmental Technologies, Inc.
Project: Missouri Electric Works
Sample ID: LA-03-SS
Collection Date: 25-Mar-2014 12:26

WorkOrder:HS14031226
Lab ID:HS14031226-09
Matrix:Soil

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
PCBS BY SW8082A		**Method:SW8082**		Prep:SW3541/3665A / 08-Apr-2014		Analyst: JLJ
Aroclor 1016	ND		17	ug/Kg	1	10-Apr-2014 02:22
Aroclor 1221	ND		17	ug/Kg	1	10-Apr-2014 02:22
Aroclor 1232	ND		17	ug/Kg	1	10-Apr-2014 02:22
Aroclor 1242	ND		17	ug/Kg	1	10-Apr-2014 02:22
Aroclor 1248	ND		17	ug/Kg	1	10-Apr-2014 02:22
Aroclor 1254	ND		17	ug/Kg	1	10-Apr-2014 02:22
Aroclor 1260	ND		17	ug/Kg	1	10-Apr-2014 02:22
Surr: Decachlorobiphenyl	*121*		*54-143*	*%REC*	*1*	*10-Apr-2014 02:22*
Surr: Tetrachloro-m-xylene	*103*		*55-137*	*%REC*	*1*	*10-Apr-2014 02:22*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

ANALYTICAL REPORT

Client: Seagull Environmental Technologies, Inc.
Project: Missouri Electric Works
Sample ID: LA-03-6"
Collection Date: 25-Mar-2014 12:28

WorkOrder:HS14031226
Lab ID:HS14031226-10
Matrix:Soil

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
PCBS BY SW8082A		**Method:SW8082**		Prep:SW3541/3665A / 08-Apr-2014		Analyst: JLJ
Aroclor 1016	ND		17	ug/Kg	1	10-Apr-2014 02:37
Aroclor 1221	ND		17	ug/Kg	1	10-Apr-2014 02:37
Aroclor 1232	ND		17	ug/Kg	1	10-Apr-2014 02:37
Aroclor 1242	ND		17	ug/Kg	1	10-Apr-2014 02:37
Aroclor 1248	ND		17	ug/Kg	1	10-Apr-2014 02:37
Aroclor 1254	ND		17	ug/Kg	1	10-Apr-2014 02:37
Aroclor 1260	ND		17	ug/Kg	1	10-Apr-2014 02:37
Surr: Decachlorobiphenyl	*117*		*54-143*	*%REC*	*1*	*10-Apr-2014 02:37*
Surr: Tetrachloro-m-xylene	*99.3*		*55-137*	*%REC*	*1*	*10-Apr-2014 02:37*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

ANALYTICAL REPORT

Client: Seagull Environmental Technologies, Inc.
Project: Missouri Electric Works
Sample ID: LA-03-1'
Collection Date: 25-Mar-2014 12:30

WorkOrder:HS14031226
Lab ID:HS14031226-11
Matrix:Soil

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
PCBS BY SW8082A		**Method:SW8082**		Prep:SW3541/3665A / 08-Apr-2014		Analyst: JLJ
Aroclor 1016	ND		17	ug/Kg	1	10-Apr-2014 02:52
Aroclor 1221	ND		17	ug/Kg	1	10-Apr-2014 02:52
Aroclor 1232	ND		17	ug/Kg	1	10-Apr-2014 02:52
Aroclor 1242	ND		17	ug/Kg	1	10-Apr-2014 02:52
Aroclor 1248	ND		17	ug/Kg	1	10-Apr-2014 02:52
Aroclor 1254	ND		17	ug/Kg	1	10-Apr-2014 02:52
Aroclor 1260	ND		17	ug/Kg	1	10-Apr-2014 02:52
Surr: Decachlorobiphenyl	*100*		*54-143*	*%REC*	*1*	*10-Apr-2014 02:52*
Surr: Tetrachloro-m-xylene	*81.3*		*55-137*	*%REC*	*1*	*10-Apr-2014 02:52*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

ANALYTICAL REPORT

Client: Seagull Environmental Technologies, Inc.
Project: Missouri Electric Works
Sample ID: LA-03-5'
Collection Date: 25-Mar-2014 12:32

WorkOrder:HS14031226
Lab ID:HS14031226-12
Matrix:Soil

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
PCBS BY SW8082A		**Method:SW8082**		Prep:SW3541/3665A / 08-Apr-2014		Analyst: JLJ
Aroclor 1016	ND		17	ug/Kg	1	10-Apr-2014 03:07
Aroclor 1221	ND		17	ug/Kg	1	10-Apr-2014 03:07
Aroclor 1232	ND		17	ug/Kg	1	10-Apr-2014 03:07
Aroclor 1242	ND		17	ug/Kg	1	10-Apr-2014 03:07
Aroclor 1248	ND		17	ug/Kg	1	10-Apr-2014 03:07
Aroclor 1254	ND		17	ug/Kg	1	10-Apr-2014 03:07
Aroclor 1260	ND		17	ug/Kg	1	10-Apr-2014 03:07
Surr: Decachlorobiphenyl	*120*		*54-143*	*%REC*	*1*	*10-Apr-2014 03:07*
Surr: Tetrachloro-m-xylene	*104*		*55-137*	*%REC*	*1*	*10-Apr-2014 03:07*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

ANALYTICAL REPORT

Client: Seagull Environmental Technologies, Inc.
Project: Missouri Electric Works
Sample ID: LA-04-SS
Collection Date: 25-Mar-2014 12:40

WorkOrder:HS14031226
Lab ID:HS14031226-13
Matrix:Soil

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
PCBS BY SW8082A		**Method:SW8082**		Prep:SW3541/3665A / 08-Apr-2014		Analyst: JLJ
Aroclor 1016	ND		17	ug/Kg	1	10-Apr-2014 03:22
Aroclor 1221	ND		17	ug/Kg	1	10-Apr-2014 03:22
Aroclor 1232	ND		17	ug/Kg	1	10-Apr-2014 03:22
Aroclor 1242	ND		17	ug/Kg	1	10-Apr-2014 03:22
Aroclor 1248	ND		17	ug/Kg	1	10-Apr-2014 03:22
Aroclor 1254	ND		17	ug/Kg	1	10-Apr-2014 03:22
Aroclor 1260	**71**		**17**	**ug/Kg**	1	10-Apr-2014 03:22
Surr: Decachlorobiphenyl	*105*		*54-143*	*%REC*	*1*	*10-Apr-2014 03:22*
Surr: Tetrachloro-m-xylene	*91.1*		*55-137*	*%REC*	*1*	*10-Apr-2014 03:22*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

ANALYTICAL REPORT

Client: Seagull Environmental Technologies, Inc.
Project: Missouri Electric Works
Sample ID: LA-04-6"
Collection Date: 25-Mar-2014 12:42

WorkOrder:HS14031226
Lab ID:HS14031226-14
Matrix:Soil

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
PCBS BY SW8082A		**Method:SW8082**		Prep:SW3541/3665A / 08-Apr-2014		Analyst: JLJ
Aroclor 1016	ND		17	ug/Kg	1	10-Apr-2014 03:37
Aroclor 1221	ND		17	ug/Kg	1	10-Apr-2014 03:37
Aroclor 1232	ND		17	ug/Kg	1	10-Apr-2014 03:37
Aroclor 1242	ND		17	ug/Kg	1	10-Apr-2014 03:37
Aroclor 1248	ND		17	ug/Kg	1	10-Apr-2014 03:37
Aroclor 1254	ND		17	ug/Kg	1	10-Apr-2014 03:37
Aroclor 1260	**120**		**17**	**ug/Kg**	1	10-Apr-2014 03:37
Surr: Decachlorobiphenyl	*122*		*54-143*	*%REC*	*1*	*10-Apr-2014 03:37*
Surr: Tetrachloro-m-xylene	*99.3*		*55-137*	*%REC*	*1*	*10-Apr-2014 03:37*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

ANALYTICAL REPORT

Client: Seagull Environmental Technologies, Inc.
Project: Missouri Electric Works
Sample ID: LA-04-1'
Collection Date: 25-Mar-2014 12:45

WorkOrder:HS14031226
Lab ID:HS14031226-15
Matrix:Soil

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
PCBS BY SW8082A		**Method:SW8082**		Prep:SW3541/3665A / 08-Apr-2014		Analyst: JLJ
Aroclor 1016	ND		17	ug/Kg	1	10-Apr-2014 03:52
Aroclor 1221	ND		17	ug/Kg	1	10-Apr-2014 03:52
Aroclor 1232	ND		17	ug/Kg	1	10-Apr-2014 03:52
Aroclor 1242	ND		17	ug/Kg	1	10-Apr-2014 03:52
Aroclor 1248	ND		17	ug/Kg	1	10-Apr-2014 03:52
Aroclor 1254	ND		17	ug/Kg	1	10-Apr-2014 03:52
Aroclor 1260	ND		17	ug/Kg	1	10-Apr-2014 03:52
Surr: Decachlorobiphenyl	*104*		*54-143*	*%REC*	*1*	*10-Apr-2014 03:52*
Surr: Tetrachloro-m-xylene	*93.4*		*55-137*	*%REC*	*1*	*10-Apr-2014 03:52*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

ANALYTICAL REPORT

Client: Seagull Environmental Technologies, Inc.
Project: Missouri Electric Works
Sample ID: LA-04-4'
Collection Date: 25-Mar-2014 12:47

WorkOrder:HS14031226
Lab ID:HS14031226-16
Matrix:Soil

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
PCBS BY SW8082A		**Method:SW8082**		Prep:SW3541/3665A / 08-Apr-2014		Analyst: JLJ
Aroclor 1016	ND		17	ug/Kg	1	10-Apr-2014 04:07
Aroclor 1221	ND		17	ug/Kg	1	10-Apr-2014 04:07
Aroclor 1232	ND		17	ug/Kg	1	10-Apr-2014 04:07
Aroclor 1242	ND		17	ug/Kg	1	10-Apr-2014 04:07
Aroclor 1248	ND		17	ug/Kg	1	10-Apr-2014 04:07
Aroclor 1254	ND		17	ug/Kg	1	10-Apr-2014 04:07
Aroclor 1260	ND		17	ug/Kg	1	10-Apr-2014 04:07
Surr: Decachlorobiphenyl	*103*		*54-143*	*%REC*	*1*	*10-Apr-2014 04:07*
Surr: Tetrachloro-m-xylene	*88.6*		*55-137*	*%REC*	*1*	*10-Apr-2014 04:07*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

ANALYTICAL REPORT

Client: Seagull Environmental Technologies, Inc.
Project: Missouri Electric Works
Sample ID: LA-05-SS
Collection Date: 25-Mar-2014 14:00

WorkOrder:HS14031226
Lab ID:HS14031226-17
Matrix:Soil

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
PCBS BY SW8082A		**Method:SW8082**		Prep:SW3541/3665A / 08-Apr-2014		Analyst: JLJ
Aroclor 1016	ND		17	ug/Kg	1	10-Apr-2014 04:23
Aroclor 1221	ND		17	ug/Kg	1	10-Apr-2014 04:23
Aroclor 1232	ND		17	ug/Kg	1	10-Apr-2014 04:23
Aroclor 1242	ND		17	ug/Kg	1	10-Apr-2014 04:23
Aroclor 1248	ND		17	ug/Kg	1	10-Apr-2014 04:23
Aroclor 1254	ND		17	ug/Kg	1	10-Apr-2014 04:23
Aroclor 1260	ND		17	ug/Kg	1	10-Apr-2014 04:23
Surr: Decachlorobiphenyl	*106*		*54-143*	*%REC*	*1*	*10-Apr-2014 04:23*
Surr: Tetrachloro-m-xylene	*91.4*		*55-137*	*%REC*	*1*	*10-Apr-2014 04:23*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

ANALYTICAL REPORT

Client: Seagull Environmental Technologies, Inc.
Project: Missouri Electric Works
Sample ID: LA-05-6"
Collection Date: 25-Mar-2014 14:02

WorkOrder:HS14031226
Lab ID:HS14031226-18
Matrix:Soil

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
PCBS BY SW8082A		**Method:SW8082**		Prep:SW3541/3665A / 08-Apr-2014		Analyst: JLJ
Aroclor 1016	ND		17	ug/Kg	1	11-Apr-2014 06:13
Aroclor 1221	ND		17	ug/Kg	1	11-Apr-2014 06:13
Aroclor 1232	ND		17	ug/Kg	1	11-Apr-2014 06:13
Aroclor 1242	ND		17	ug/Kg	1	11-Apr-2014 06:13
Aroclor 1248	ND		17	ug/Kg	1	11-Apr-2014 06:13
Aroclor 1254	ND		17	ug/Kg	1	11-Apr-2014 06:13
Aroclor 1260	ND		17	ug/Kg	1	11-Apr-2014 06:13
Surr: Decachlorobiphenyl	*91.4*		*54-143*	*%REC*	*1*	*11-Apr-2014 06:13*
Surr: Tetrachloro-m-xylene	*85.3*		*55-137*	*%REC*	*1*	*11-Apr-2014 06:13*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

ANALYTICAL REPORT

Client: Seagull Environmental Technologies, Inc.
Project: Missouri Electric Works
Sample ID: LA-05-1'
Collection Date: 25-Mar-2014 14:04

WorkOrder:HS14031226
Lab ID:HS14031226-19
Matrix:Soil

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
PCBS BY SW8082A		**Method:SW8082**		Prep:SW3541/3665A / 08-Apr-2014		Analyst: JLJ
Aroclor 1016	ND		17	ug/Kg	1	11-Apr-2014 06:28
Aroclor 1221	ND		17	ug/Kg	1	11-Apr-2014 06:28
Aroclor 1232	ND		17	ug/Kg	1	11-Apr-2014 06:28
Aroclor 1242	ND		17	ug/Kg	1	11-Apr-2014 06:28
Aroclor 1248	ND		17	ug/Kg	1	11-Apr-2014 06:28
Aroclor 1254	ND		17	ug/Kg	1	11-Apr-2014 06:28
Aroclor 1260	ND		17	ug/Kg	1	11-Apr-2014 06:28
Surr: Decachlorobiphenyl	*102*		*54-143*	*%REC*	*1*	*11-Apr-2014 06:28*
Surr: Tetrachloro-m-xylene	*86.8*		*55-137*	*%REC*	*1*	*11-Apr-2014 06:28*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

ANALYTICAL REPORT

Client: Seagull Environmental Technologies, Inc.
Project: Missouri Electric Works
Sample ID: LA-05-5'
Collection Date: 25-Mar-2014 14:08

WorkOrder:HS14031226
Lab ID:HS14031226-20
Matrix:Soil

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
PCBS BY SW8082A		**Method:SW8082**		Prep:SW3541/3665A / 08-Apr-2014		Analyst: JLJ
Aroclor 1016	ND		17	ug/Kg	1	11-Apr-2014 06:43
Aroclor 1221	ND		17	ug/Kg	1	11-Apr-2014 06:43
Aroclor 1232	ND		17	ug/Kg	1	11-Apr-2014 06:43
Aroclor 1242	ND		17	ug/Kg	1	11-Apr-2014 06:43
Aroclor 1248	ND		17	ug/Kg	1	11-Apr-2014 06:43
Aroclor 1254	ND		17	ug/Kg	1	11-Apr-2014 06:43
Aroclor 1260	ND		17	ug/Kg	1	11-Apr-2014 06:43
Surr: Decachlorobiphenyl	*83.9*		*54-143*	*%REC*	*1*	*11-Apr-2014 06:43*
Surr: Tetrachloro-m-xylene	*73.6*		*55-137*	*%REC*	*1*	*11-Apr-2014 06:43*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

ANALYTICAL REPORT

Client: Seagull Environmental Technologies, Inc.
Project: Missouri Electric Works
Sample ID: LA-06-SS
Collection Date: 25-Mar-2014 14:14

WorkOrder:HS14031226
Lab ID:HS14031226-21
Matrix:Soil

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
PCBS BY SW8082A		**Method:SW8082**		Prep:SW3546/3665A / 08-Apr-2014		Analyst: JLJ
Aroclor 1016	ND		17	ug/Kg	1	11-Apr-2014 07:29
Aroclor 1221	ND		17	ug/Kg	1	11-Apr-2014 07:29
Aroclor 1232	ND		17	ug/Kg	1	11-Apr-2014 07:29
Aroclor 1242	ND		17	ug/Kg	1	11-Apr-2014 07:29
Aroclor 1248	ND		17	ug/Kg	1	11-Apr-2014 07:29
Aroclor 1254	ND		17	ug/Kg	1	11-Apr-2014 07:29
Aroclor 1260	**57**		**17**	**ug/Kg**	1	11-Apr-2014 07:29
Surr: Decachlorobiphenyl	*110*		*54-143*	*%REC*	*1*	*11-Apr-2014 07:29*
Surr: Tetrachloro-m-xylene	*106*		*55-137*	*%REC*	*1*	*11-Apr-2014 07:29*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

ANALYTICAL REPORT

Client: Seagull Environmental Technologies, Inc.
Project: Missouri Electric Works
Sample ID: LA-06-6"
Collection Date: 25-Mar-2014 14:16

WorkOrder:HS14031226
Lab ID:HS14031226-22
Matrix:Soil

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
PCBS BY SW8082A		**Method:SW8082**		Prep:SW3546/3665A / 08-Apr-2014		Analyst: JLJ
Aroclor 1016	ND		16	ug/Kg	1	11-Apr-2014 07:44
Aroclor 1221	ND		16	ug/Kg	1	11-Apr-2014 07:44
Aroclor 1232	ND		16	ug/Kg	1	11-Apr-2014 07:44
Aroclor 1242	ND		16	ug/Kg	1	11-Apr-2014 07:44
Aroclor 1248	ND		16	ug/Kg	1	11-Apr-2014 07:44
Aroclor 1254	ND		16	ug/Kg	1	11-Apr-2014 07:44
Aroclor 1260	ND		16	ug/Kg	1	11-Apr-2014 07:44
Surr: Decachlorobiphenyl	*73.2*		*54-143*	*%REC*	*1*	*11-Apr-2014 07:44*
Surr: Tetrachloro-m-xylene	*62.1*		*55-137*	*%REC*	*1*	*11-Apr-2014 07:44*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

ANALYTICAL REPORT

Client: Seagull Environmental Technologies, Inc.
Project: Missouri Electric Works
Sample ID: LA-06-1'
Collection Date: 25-Mar-2014 14:18

WorkOrder:HS14031226
Lab ID:HS14031226-23
Matrix:Soil

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
PCBS BY SW8082A		**Method:SW8082**		Prep:SW3546/3665A / 08-Apr-2014		Analyst: JLJ
Aroclor 1016	ND		16	ug/Kg	1	11-Apr-2014 09:30
Aroclor 1221	ND		16	ug/Kg	1	11-Apr-2014 09:30
Aroclor 1232	ND		16	ug/Kg	1	11-Apr-2014 09:30
Aroclor 1242	ND		16	ug/Kg	1	11-Apr-2014 09:30
Aroclor 1248	ND		16	ug/Kg	1	11-Apr-2014 09:30
Aroclor 1254	ND		16	ug/Kg	1	11-Apr-2014 09:30
Aroclor 1260	ND		16	ug/Kg	1	11-Apr-2014 09:30
Surr: Decachlorobiphenyl	*97.4*		*54-143*	*%REC*	*1*	*11-Apr-2014 09:30*
Surr: Tetrachloro-m-xylene	*84.2*		*55-137*	*%REC*	*1*	*11-Apr-2014 09:30*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

ANALYTICAL REPORT

Client: Seagull Environmental Technologies, Inc.
Project: Missouri Electric Works
Sample ID: LA-06-5'
Collection Date: 25-Mar-2014 14:20

WorkOrder:HS14031226
Lab ID:HS14031226-24
Matrix:Soil

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
PCBS BY SW8082A		**Method:SW8082**		Prep:SW3546/3665A / 08-Apr-2014		Analyst: JLJ
Aroclor 1016	ND		82	ug/Kg	5	19-Apr-2014 01:08
Aroclor 1221	ND		82	ug/Kg	5	19-Apr-2014 01:08
Aroclor 1232	ND		82	ug/Kg	5	19-Apr-2014 01:08
Aroclor 1242	ND		82	ug/Kg	5	19-Apr-2014 01:08
Aroclor 1248	ND		82	ug/Kg	5	19-Apr-2014 01:08
Aroclor 1254	ND		82	ug/Kg	5	19-Apr-2014 01:08
Aroclor 1260	**500**		**82**	**ug/Kg**	5	19-Apr-2014 01:08
Surr: Decachlorobiphenyl	*99.6*	*J*	*54-143*	*%REC*	*5*	*19-Apr-2014 01:08*
Surr: Tetrachloro-m-xylene	*104*	*J*	*55-137*	*%REC*	*5*	*19-Apr-2014 01:08*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

ANALYTICAL REPORT

Client: Seagull Environmental Technologies, Inc.
Project: Missouri Electric Works
Sample ID: LA-07-SS
Collection Date: 25-Mar-2014 14:45

WorkOrder:HS14031226
Lab ID:HS14031226-25
Matrix:Soil

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
PCBS BY SW8082A		**Method:SW8082**		Prep:SW3546/3665A / 08-Apr-2014		Analyst: JLJ
Aroclor 1016	ND		17	ug/Kg	1	11-Apr-2014 10:00
Aroclor 1221	ND		17	ug/Kg	1	11-Apr-2014 10:00
Aroclor 1232	ND		17	ug/Kg	1	11-Apr-2014 10:00
Aroclor 1242	ND		17	ug/Kg	1	11-Apr-2014 10:00
Aroclor 1248	ND		17	ug/Kg	1	11-Apr-2014 10:00
Aroclor 1254	ND		17	ug/Kg	1	11-Apr-2014 10:00
Aroclor 1260	ND		17	ug/Kg	1	11-Apr-2014 10:00
Surr: Decachlorobiphenyl	*73.8*		*54-143*	*%REC*	*1*	*11-Apr-2014 10:00*
Surr: Tetrachloro-m-xylene	*63.6*		*55-137*	*%REC*	*1*	*11-Apr-2014 10:00*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

ANALYTICAL REPORT

Client: Seagull Environmental Technologies, Inc.
Project: Missouri Electric Works
Sample ID: LA-07-6"
Collection Date: 25-Mar-2014 14:47

WorkOrder:HS14031226
Lab ID:HS14031226-26
Matrix:Soil

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
PCBS BY SW8082A		**Method:SW8082**		Prep:SW3546/3665A / 08-Apr-2014		Analyst: JLJ
Aroclor 1016	ND		17	ug/Kg	1	11-Apr-2014 10:15
Aroclor 1221	ND		17	ug/Kg	1	11-Apr-2014 10:15
Aroclor 1232	ND		17	ug/Kg	1	11-Apr-2014 10:15
Aroclor 1242	ND		17	ug/Kg	1	11-Apr-2014 10:15
Aroclor 1248	ND		17	ug/Kg	1	11-Apr-2014 10:15
Aroclor 1254	ND		17	ug/Kg	1	11-Apr-2014 10:15
Aroclor 1260	ND		17	ug/Kg	1	11-Apr-2014 10:15
Surr: Decachlorobiphenyl	*81.8*		*54-143*	*%REC*	*1*	*11-Apr-2014 10:15*
Surr: Tetrachloro-m-xylene	*71.2*		*55-137*	*%REC*	*1*	*11-Apr-2014 10:15*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

ANALYTICAL REPORT

Client: Seagull Environmental Technologies, Inc.
Project: Missouri Electric Works
Sample ID: LA-07-1'
Collection Date: 25-Mar-2014 14:49

WorkOrder:HS14031226
Lab ID:HS14031226-27
Matrix:Soil

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
PCBS BY SW8082A		**Method:SW8082**		Prep:SW3546/3665A / 08-Apr-2014		Analyst: JLJ
Aroclor 1016	ND		17	ug/Kg	1	11-Apr-2014 10:30
Aroclor 1221	ND		17	ug/Kg	1	11-Apr-2014 10:30
Aroclor 1232	ND		17	ug/Kg	1	11-Apr-2014 10:30
Aroclor 1242	ND		17	ug/Kg	1	11-Apr-2014 10:30
Aroclor 1248	ND		17	ug/Kg	1	11-Apr-2014 10:30
Aroclor 1254	ND		17	ug/Kg	1	11-Apr-2014 10:30
Aroclor 1260	ND		17	ug/Kg	1	11-Apr-2014 10:30
Surr: Decachlorobiphenyl	*78.5*		*54-143*	*%REC*	*1*	*11-Apr-2014 10:30*
Surr: Tetrachloro-m-xylene	*66.7*		*55-137*	*%REC*	*1*	*11-Apr-2014 10:30*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

ANALYTICAL REPORT

Client: Seagull Environmental Technologies, Inc.
Project: Missouri Electric Works
Sample ID: LA-07-5'
Collection Date: 25-Mar-2014 14:51

WorkOrder:HS14031226
Lab ID:HS14031226-28
Matrix:Soil

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
PCBS BY SW8082A		**Method:SW8082**		Prep:SW3546/3665A / 08-Apr-2014		Analyst: JLJ
Aroclor 1016	ND		17	ug/Kg	1	11-Apr-2014 10:45
Aroclor 1221	ND		17	ug/Kg	1	11-Apr-2014 10:45
Aroclor 1232	ND		17	ug/Kg	1	11-Apr-2014 10:45
Aroclor 1242	ND		17	ug/Kg	1	11-Apr-2014 10:45
Aroclor 1248	ND		17	ug/Kg	1	11-Apr-2014 10:45
Aroclor 1254	ND		17	ug/Kg	1	11-Apr-2014 10:45
Aroclor 1260	ND		17	ug/Kg	1	11-Apr-2014 10:45
Surr: Decachlorobiphenyl	*79.8*		*54-143*	*%REC*	*1*	*11-Apr-2014 10:45*
Surr: Tetrachloro-m-xylene	*101*		*55-137*	*%REC*	*1*	*11-Apr-2014 10:45*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

ANALYTICAL REPORT

Client: Seagull Environmental Technologies, Inc.
Project: Missouri Electric Works
Sample ID: LA-08-SS
Collection Date: 25-Mar-2014 15:02

WorkOrder:HS14031226
Lab ID:HS14031226-29
Matrix:Soil

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
PCBS BY SW8082A		**Method:SW8082**		Prep:SW3546/3665A / 08-Apr-2014		Analyst: JLJ
Aroclor 1016	ND		16	ug/Kg	1	11-Apr-2014 11:01
Aroclor 1221	ND		16	ug/Kg	1	11-Apr-2014 11:01
Aroclor 1232	ND		16	ug/Kg	1	11-Apr-2014 11:01
Aroclor 1242	ND		16	ug/Kg	1	11-Apr-2014 11:01
Aroclor 1248	ND		16	ug/Kg	1	11-Apr-2014 11:01
Aroclor 1254	ND		16	ug/Kg	1	11-Apr-2014 11:01
Aroclor 1260	ND		16	ug/Kg	1	11-Apr-2014 11:01
Surr: Decachlorobiphenyl	*72.6*		*54-143*	*%REC*	*1*	*11-Apr-2014 11:01*
Surr: Tetrachloro-m-xylene	*58.0*		*55-137*	*%REC*	*1*	*11-Apr-2014 11:01*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

ANALYTICAL REPORT

Client: Seagull Environmental Technologies, Inc.
Project: Missouri Electric Works
Sample ID: LA-08-6"
Collection Date: 25-Mar-2014 15:04

WorkOrder:HS14031226
Lab ID:HS14031226-30
Matrix:Soil

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
PCBS BY SW8082A		**Method:SW8082**		Prep:SW3546/3665A / 08-Apr-2014		Analyst: JLJ
Aroclor 1016	ND		17	ug/Kg	1	11-Apr-2014 11:16
Aroclor 1221	ND		17	ug/Kg	1	11-Apr-2014 11:16
Aroclor 1232	ND		17	ug/Kg	1	11-Apr-2014 11:16
Aroclor 1242	ND		17	ug/Kg	1	11-Apr-2014 11:16
Aroclor 1248	ND		17	ug/Kg	1	11-Apr-2014 11:16
Aroclor 1254	ND		17	ug/Kg	1	11-Apr-2014 11:16
Aroclor 1260	ND		17	ug/Kg	1	11-Apr-2014 11:16
Surr: Decachlorobiphenyl	*74.3*		*54-143*	*%REC*	*1*	*11-Apr-2014 11:16*
Surr: Tetrachloro-m-xylene	*66.2*		*55-137*	*%REC*	*1*	*11-Apr-2014 11:16*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

ANALYTICAL REPORT

Client: Seagull Environmental Technologies, Inc.
Project: Missouri Electric Works
Sample ID: LA-08-1'
Collection Date: 25-Mar-2014 15:06

WorkOrder:HS14031226
Lab ID:HS14031226-31
Matrix:Soil

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
PCBS BY SW8082A		**Method:SW8082**		Prep:SW3546/3665A / 08-Apr-2014		Analyst: JLJ
Aroclor 1016	ND		16	ug/Kg	1	11-Apr-2014 12:31
Aroclor 1221	ND		16	ug/Kg	1	11-Apr-2014 12:31
Aroclor 1232	ND		16	ug/Kg	1	11-Apr-2014 12:31
Aroclor 1242	ND		16	ug/Kg	1	11-Apr-2014 12:31
Aroclor 1248	ND		16	ug/Kg	1	11-Apr-2014 12:31
Aroclor 1254	ND		16	ug/Kg	1	11-Apr-2014 12:31
Aroclor 1260	ND		16	ug/Kg	1	11-Apr-2014 12:31
Surr: Decachlorobiphenyl	*97.1*		*54-143*	*%REC*	*1*	*11-Apr-2014 12:31*
Surr: Tetrachloro-m-xylene	*82.7*		*55-137*	*%REC*	*1*	*11-Apr-2014 12:31*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

ANALYTICAL REPORT

Client: Seagull Environmental Technologies, Inc.
Project: Missouri Electric Works
Sample ID: LA-08-5'
Collection Date: 25-Mar-2014 15:08

WorkOrder:HS14031226
Lab ID:HS14031226-32
Matrix:Soil

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
PCBS BY SW8082A		**Method:SW8082**		Prep:SW3546/3665A / 08-Apr-2014		Analyst: JLJ
Aroclor 1016	ND		17	ug/Kg	1	11-Apr-2014 12:46
Aroclor 1221	ND		17	ug/Kg	1	11-Apr-2014 12:46
Aroclor 1232	ND		17	ug/Kg	1	11-Apr-2014 12:46
Aroclor 1242	ND		17	ug/Kg	1	11-Apr-2014 12:46
Aroclor 1248	ND		17	ug/Kg	1	11-Apr-2014 12:46
Aroclor 1254	ND		17	ug/Kg	1	11-Apr-2014 12:46
Aroclor 1260	ND		17	ug/Kg	1	11-Apr-2014 12:46
Surr: Decachlorobiphenyl	*71.6*		*54-143*	*%REC*	*1*	*11-Apr-2014 12:46*
Surr: Tetrachloro-m-xylene	*62.5*		*55-137*	*%REC*	*1*	*11-Apr-2014 12:46*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

ANALYTICAL REPORT

Client: Seagull Environmental Technologies, Inc.
Project: Missouri Electric Works
Sample ID: LA-09-SS
Collection Date: 25-Mar-2014 15:40

WorkOrder:HS14031226
Lab ID:HS14031226-33
Matrix:Soil

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
PCBS BY SW8082A		**Method:SW8082**		Prep:SW3546/3665A / 08-Apr-2014		Analyst: JLJ
Aroclor 1016	ND		17	ug/Kg	1	11-Apr-2014 13:01
Aroclor 1221	ND		17	ug/Kg	1	11-Apr-2014 13:01
Aroclor 1232	ND		17	ug/Kg	1	11-Apr-2014 13:01
Aroclor 1242	ND		17	ug/Kg	1	11-Apr-2014 13:01
Aroclor 1248	ND		17	ug/Kg	1	11-Apr-2014 13:01
Aroclor 1254	ND		17	ug/Kg	1	11-Apr-2014 13:01
Aroclor 1260	ND		17	ug/Kg	1	11-Apr-2014 13:01
Surr: Decachlorobiphenyl	*82.6*		*54-143*	*%REC*	*1*	*11-Apr-2014 13:01*
Surr: Tetrachloro-m-xylene	*69.3*		*55-137*	*%REC*	*1*	*11-Apr-2014 13:01*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

ANALYTICAL REPORT

Client: Seagull Environmental Technologies, Inc.
Project: Missouri Electric Works
Sample ID: LA-09-6"
Collection Date: 25-Mar-2014 15:42

WorkOrder:HS14031226
Lab ID:HS14031226-34
Matrix:Soil

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
PCBS BY SW8082A		**Method:SW8082**		Prep:SW3546/3665A / 08-Apr-2014		Analyst: JLJ
Aroclor 1016	ND		17	ug/Kg	1	11-Apr-2014 13:16
Aroclor 1221	ND		17	ug/Kg	1	11-Apr-2014 13:16
Aroclor 1232	ND		17	ug/Kg	1	11-Apr-2014 13:16
Aroclor 1242	ND		17	ug/Kg	1	11-Apr-2014 13:16
Aroclor 1248	ND		17	ug/Kg	1	11-Apr-2014 13:16
Aroclor 1254	ND		17	ug/Kg	1	11-Apr-2014 13:16
Aroclor 1260	ND		17	ug/Kg	1	11-Apr-2014 13:16
Surr: Decachlorobiphenyl	*81.3*		*54-143*	*%REC*	*1*	*11-Apr-2014 13:16*
Surr: Tetrachloro-m-xylene	*62.6*		*55-137*	*%REC*	*1*	*11-Apr-2014 13:16*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

ANALYTICAL REPORT

Client: Seagull Environmental Technologies, Inc.
Project: Missouri Electric Works
Sample ID: LA-09-1'
Collection Date: 25-Mar-2014 15:44

WorkOrder:HS14031226
Lab ID:HS14031226-35
Matrix:Soil

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
PCBS BY SW8082A		**Method:SW8082**		Prep:SW3546/3665A / 08-Apr-2014		Analyst: JLJ
Aroclor 1016	ND		16	ug/Kg	1	11-Apr-2014 13:31
Aroclor 1221	ND		16	ug/Kg	1	11-Apr-2014 13:31
Aroclor 1232	ND		16	ug/Kg	1	11-Apr-2014 13:31
Aroclor 1242	ND		16	ug/Kg	1	11-Apr-2014 13:31
Aroclor 1248	ND		16	ug/Kg	1	11-Apr-2014 13:31
Aroclor 1254	ND		16	ug/Kg	1	11-Apr-2014 13:31
Aroclor 1260	ND		16	ug/Kg	1	11-Apr-2014 13:31
Surr: Decachlorobiphenyl	*63.9*		*54-143*	*%REC*	*1*	*11-Apr-2014 13:31*
Surr: Tetrachloro-m-xylene	*55.9*		*55-137*	*%REC*	*1*	*11-Apr-2014 13:31*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

ANALYTICAL REPORT

Client: Seagull Environmental Technologies, Inc.
Project: Missouri Electric Works
Sample ID: LA-09-4'
Collection Date: 25-Mar-2014 15:46

WorkOrder:HS14031226
Lab ID:HS14031226-36
Matrix:Soil

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
PCBS BY SW8082A		**Method:SW8082**		Prep:SW3546/3665A / 08-Apr-2014		Analyst: JLJ
Aroclor 1016	ND		17	ug/Kg	1	11-Apr-2014 13:47
Aroclor 1221	ND		17	ug/Kg	1	11-Apr-2014 13:47
Aroclor 1232	ND		17	ug/Kg	1	11-Apr-2014 13:47
Aroclor 1242	ND		17	ug/Kg	1	11-Apr-2014 13:47
Aroclor 1248	ND		17	ug/Kg	1	11-Apr-2014 13:47
Aroclor 1254	ND		17	ug/Kg	1	11-Apr-2014 13:47
Aroclor 1260	ND		17	ug/Kg	1	11-Apr-2014 13:47
Surr: Decachlorobiphenyl	*74.1*		*54-143*	*%REC*	*1*	*11-Apr-2014 13:47*
Surr: Tetrachloro-m-xylene	*64.2*		*55-137*	*%REC*	*1*	*11-Apr-2014 13:47*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

ANALYTICAL REPORT

Client: Seagull Environmental Technologies, Inc.
Project: Missouri Electric Works
Sample ID: LA-10-SS
Collection Date: 25-Mar-2014 16:00

WorkOrder:HS14031226
Lab ID:HS14031226-37
Matrix:Soil

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
PCBS BY SW8082A		**Method:SW8082**		Prep:SW3546/3665A / 08-Apr-2014		Analyst: JLJ
Aroclor 1016	ND		16	ug/Kg	1	11-Apr-2014 14:02
Aroclor 1221	ND		16	ug/Kg	1	11-Apr-2014 14:02
Aroclor 1232	ND		16	ug/Kg	1	11-Apr-2014 14:02
Aroclor 1242	ND		16	ug/Kg	1	11-Apr-2014 14:02
Aroclor 1248	ND		16	ug/Kg	1	11-Apr-2014 14:02
Aroclor 1254	ND		16	ug/Kg	1	11-Apr-2014 14:02
Aroclor 1260	ND		16	ug/Kg	1	11-Apr-2014 14:02
Surr: Decachlorobiphenyl	*75.3*		*54-143*	*%REC*	*1*	*11-Apr-2014 14:02*
Surr: Tetrachloro-m-xylene	*58.3*		*55-137*	*%REC*	*1*	*11-Apr-2014 14:02*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

ANALYTICAL REPORT

Client: Seagull Environmental Technologies, Inc.
Project: Missouri Electric Works
Sample ID: LA-10-6"
Collection Date: 25-Mar-2014 16:02

WorkOrder:HS14031226
Lab ID:HS14031226-38
Matrix:Soil

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
PCBS BY SW8082A		**Method:SW8082**		Prep:SW3546/3665A / 08-Apr-2014		Analyst: JLJ
Aroclor 1016	ND		17	ug/Kg	1	11-Apr-2014 14:17
Aroclor 1221	ND		17	ug/Kg	1	11-Apr-2014 14:17
Aroclor 1232	ND		17	ug/Kg	1	11-Apr-2014 14:17
Aroclor 1242	ND		17	ug/Kg	1	11-Apr-2014 14:17
Aroclor 1248	ND		17	ug/Kg	1	11-Apr-2014 14:17
Aroclor 1254	ND		17	ug/Kg	1	11-Apr-2014 14:17
Aroclor 1260	ND		17	ug/Kg	1	11-Apr-2014 14:17
Surr: Decachlorobiphenyl	*136*		*54-143*	*%REC*	*1*	*11-Apr-2014 14:17*
Surr: Tetrachloro-m-xylene	*106*		*55-137*	*%REC*	*1*	*11-Apr-2014 14:17*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

ANALYTICAL REPORT

Client: Seagull Environmental Technologies, Inc.
Project: Missouri Electric Works
Sample ID: LA-10-1'
Collection Date: 25-Mar-2014 16:04

WorkOrder:HS14031226
Lab ID:HS14031226-39
Matrix:Soil

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
PCBS BY SW8082A		**Method:SW8082**		Prep:SW3546/3665A / 08-Apr-2014		Analyst: JLJ
Aroclor 1016	ND		17	ug/Kg	1	11-Apr-2014 14:57
Aroclor 1221	ND		17	ug/Kg	1	11-Apr-2014 14:57
Aroclor 1232	ND		17	ug/Kg	1	11-Apr-2014 14:57
Aroclor 1242	ND		17	ug/Kg	1	11-Apr-2014 14:57
Aroclor 1248	ND		17	ug/Kg	1	11-Apr-2014 14:57
Aroclor 1254	ND		17	ug/Kg	1	11-Apr-2014 14:57
Aroclor 1260	ND		17	ug/Kg	1	11-Apr-2014 14:57
Surr: Decachlorobiphenyl	*68.4*		*54-143*	*%REC*	*1*	*11-Apr-2014 14:57*
Surr: Tetrachloro-m-xylene	*59.7*		*55-137*	*%REC*	*1*	*11-Apr-2014 14:57*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

ANALYTICAL REPORT

Client: Seagull Environmental Technologies, Inc.
Project: Missouri Electric Works
Sample ID: LA-10-4'
Collection Date: 25-Mar-2014 16:06

WorkOrder:HS14031226
Lab ID:HS14031226-40
Matrix:Soil

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
PCBS BY SW8082A		**Method:SW8082**		Prep:SW3546/3665A / 08-Apr-2014		Analyst: JLJ
Aroclor 1016	ND		16	ug/Kg	1	11-Apr-2014 15:12
Aroclor 1221	ND		16	ug/Kg	1	11-Apr-2014 15:12
Aroclor 1232	ND		16	ug/Kg	1	11-Apr-2014 15:12
Aroclor 1242	ND		16	ug/Kg	1	11-Apr-2014 15:12
Aroclor 1248	ND		16	ug/Kg	1	11-Apr-2014 15:12
Aroclor 1254	ND		16	ug/Kg	1	11-Apr-2014 15:12
Aroclor 1260	ND		16	ug/Kg	1	11-Apr-2014 15:12
Surr: Decachlorobiphenyl	*91.2*		*54-143*	*%REC*	*1*	*11-Apr-2014 15:12*
Surr: Tetrachloro-m-xylene	*90.6*		*55-137*	*%REC*	*1*	*11-Apr-2014 15:12*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

ANALYTICAL REPORT

Client: Seagull Environmental Technologies, Inc.
Project: Missouri Electric Works
Sample ID: LA-11-SS
Collection Date: 25-Mar-2014 16:26

WorkOrder:HS14031226
Lab ID:HS14031226-41
Matrix:Soil

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
PCBS BY SW8082A		**Method:SW8082**		Prep:SW3546/3665A / 08-Apr-2014		Analyst: JLJ
Aroclor 1016	ND		17	ug/Kg	1	11-Apr-2014 17:59
Aroclor 1221	ND		17	ug/Kg	1	11-Apr-2014 17:59
Aroclor 1232	ND		17	ug/Kg	1	11-Apr-2014 17:59
Aroclor 1242	ND		17	ug/Kg	1	11-Apr-2014 17:59
Aroclor 1248	ND		17	ug/Kg	1	11-Apr-2014 17:59
Aroclor 1254	ND		17	ug/Kg	1	11-Apr-2014 17:59
Aroclor 1260	ND		17	ug/Kg	1	11-Apr-2014 17:59
Surr: Decachlorobiphenyl	*86.5*		*54-143*	*%REC*	*1*	*11-Apr-2014 17:59*
Surr: Tetrachloro-m-xylene	*74.4*		*55-137*	*%REC*	*1*	*11-Apr-2014 17:59*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

ANALYTICAL REPORT

Client: Seagull Environmental Technologies, Inc.
Project: Missouri Electric Works
Sample ID: LA-11-6"
Collection Date: 25-Mar-2014 16:28

WorkOrder:HS14031226
Lab ID:HS14031226-42
Matrix:Soil

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
PCBS BY SW8082A		**Method:SW8082**		Prep:SW3546/3665A / 08-Apr-2014		Analyst: JLJ
Aroclor 1016	ND		17	ug/Kg	1	11-Apr-2014 18:14
Aroclor 1221	ND		17	ug/Kg	1	11-Apr-2014 18:14
Aroclor 1232	ND		17	ug/Kg	1	11-Apr-2014 18:14
Aroclor 1242	ND		17	ug/Kg	1	11-Apr-2014 18:14
Aroclor 1248	ND		17	ug/Kg	1	11-Apr-2014 18:14
Aroclor 1254	ND		17	ug/Kg	1	11-Apr-2014 18:14
Aroclor 1260	ND		17	ug/Kg	1	11-Apr-2014 18:14
Surr: Decachlorobiphenyl	*101*		*54-143*	*%REC*	*1*	*11-Apr-2014 18:14*
Surr: Tetrachloro-m-xylene	*80.1*		*55-137*	*%REC*	*1*	*11-Apr-2014 18:14*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

ANALYTICAL REPORT

Client: Seagull Environmental Technologies, Inc.
Project: Missouri Electric Works
Sample ID: LA-11-1'
Collection Date: 25-Mar-2014 16:30

WorkOrder:HS14031226
Lab ID:HS14031226-43
Matrix:Soil

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
PCBS BY SW8082A		**Method:SW8082**		Prep:SW3546/3665A / 08-Apr-2014		Analyst: JLJ
Aroclor 1016	ND		17	ug/Kg	1	11-Apr-2014 18:29
Aroclor 1221	ND		17	ug/Kg	1	11-Apr-2014 18:29
Aroclor 1232	ND		17	ug/Kg	1	11-Apr-2014 18:29
Aroclor 1242	ND		17	ug/Kg	1	11-Apr-2014 18:29
Aroclor 1248	ND		17	ug/Kg	1	11-Apr-2014 18:29
Aroclor 1254	ND		17	ug/Kg	1	11-Apr-2014 18:29
Aroclor 1260	ND		17	ug/Kg	1	11-Apr-2014 18:29
Surr: Decachlorobiphenyl	*95.0*		*54-143*	*%REC*	*1*	*11-Apr-2014 18:29*
Surr: Tetrachloro-m-xylene	*80.0*		*55-137*	*%REC*	*1*	*11-Apr-2014 18:29*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

ANALYTICAL REPORT

Client: Seagull Environmental Technologies, Inc.
Project: Missouri Electric Works
Sample ID: LA-11-4'
Collection Date: 25-Mar-2014 16:32

WorkOrder:HS14031226
Lab ID:HS14031226-44
Matrix:Soil

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
PCBS BY SW8082A		**Method:SW8082**		Prep:SW3546/3665A / 08-Apr-2014		Analyst: JLJ
Aroclor 1016	ND		17	ug/Kg	1	14-Apr-2014 03:39
Aroclor 1221	ND		17	ug/Kg	1	14-Apr-2014 03:39
Aroclor 1232	ND		17	ug/Kg	1	14-Apr-2014 03:39
Aroclor 1242	ND		17	ug/Kg	1	14-Apr-2014 03:39
Aroclor 1248	ND		17	ug/Kg	1	14-Apr-2014 03:39
Aroclor 1254	ND		17	ug/Kg	1	14-Apr-2014 03:39
Aroclor 1260	ND		17	ug/Kg	1	14-Apr-2014 03:39
Surr: Decachlorobiphenyl	*103*		*54-143*	*%REC*	*1*	*14-Apr-2014 03:39*
Surr: Tetrachloro-m-xylene	*89.4*		*55-137*	*%REC*	*1*	*14-Apr-2014 03:39*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

ANALYTICAL REPORT

Client: Seagull Environmental Technologies, Inc.
Project: Missouri Electric Works
Sample ID: LA-12-SS
Collection Date: 25-Mar-2014 16:52

WorkOrder:HS14031226
Lab ID:HS14031226-45
Matrix:Soil

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
PCBS BY SW8082A		**Method:SW8082**		Prep:SW3546/3665A / 08-Apr-2014		Analyst: JLJ
Aroclor 1016	ND		17	ug/Kg	1	14-Apr-2014 03:54
Aroclor 1221	ND		17	ug/Kg	1	14-Apr-2014 03:54
Aroclor 1232	ND		17	ug/Kg	1	14-Apr-2014 03:54
Aroclor 1242	ND		17	ug/Kg	1	14-Apr-2014 03:54
Aroclor 1248	ND		17	ug/Kg	1	14-Apr-2014 03:54
Aroclor 1254	ND		17	ug/Kg	1	14-Apr-2014 03:54
Aroclor 1260	**33**		**17**	**ug/Kg**	1	14-Apr-2014 03:54
Surr: Decachlorobiphenyl	*141*		*54-143*	*%REC*	*1*	*14-Apr-2014 03:54*
Surr: Tetrachloro-m-xylene	*135*		*55-137*	*%REC*	*1*	*14-Apr-2014 03:54*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

ANALYTICAL REPORT

Client: Seagull Environmental Technologies, Inc.
Project: Missouri Electric Works
Sample ID: LA-12-6'
Collection Date: 25-Mar-2014 16:54

WorkOrder:HS14031226
Lab ID:HS14031226-46
Matrix:Soil

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
PCBS BY SW8082A		**Method:SW8082**		Prep:SW3546/3665A / 08-Apr-2014		Analyst: JLJ
Aroclor 1016	ND		16	ug/Kg	1	14-Apr-2014 04:09
Aroclor 1221	ND		16	ug/Kg	1	14-Apr-2014 04:09
Aroclor 1232	ND		16	ug/Kg	1	14-Apr-2014 04:09
Aroclor 1242	ND		16	ug/Kg	1	14-Apr-2014 04:09
Aroclor 1248	ND		16	ug/Kg	1	14-Apr-2014 04:09
Aroclor 1254	ND		16	ug/Kg	1	14-Apr-2014 04:09
Aroclor 1260	ND		16	ug/Kg	1	14-Apr-2014 04:09
Surr: Decachlorobiphenyl	*88.7*		*54-143*	*%REC*	*1*	*14-Apr-2014 04:09*
Surr: Tetrachloro-m-xylene	*79.6*		*55-137*	*%REC*	*1*	*14-Apr-2014 04:09*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

ANALYTICAL REPORT

Client: Seagull Environmental Technologies, Inc.
Project: Missouri Electric Works
Sample ID: LA-12-1'
Collection Date: 25-Mar-2014 16:56

WorkOrder:HS14031226
Lab ID:HS14031226-47
Matrix:Soil

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
PCBS BY SW8082A		**Method:SW8082**		Prep:SW3546/3665A / 08-Apr-2014		Analyst: JLJ
Aroclor 1016	ND		17	ug/Kg	1	14-Apr-2014 04:24
Aroclor 1221	ND		17	ug/Kg	1	14-Apr-2014 04:24
Aroclor 1232	ND		17	ug/Kg	1	14-Apr-2014 04:24
Aroclor 1242	ND		17	ug/Kg	1	14-Apr-2014 04:24
Aroclor 1248	ND		17	ug/Kg	1	14-Apr-2014 04:24
Aroclor 1254	ND		17	ug/Kg	1	14-Apr-2014 04:24
Aroclor 1260	ND		17	ug/Kg	1	14-Apr-2014 04:24
Surr: Decachlorobiphenyl	*113*		*54-143*	*%REC*	*1*	*14-Apr-2014 04:24*
Surr: Tetrachloro-m-xylene	*107*		*55-137*	*%REC*	*1*	*14-Apr-2014 04:24*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

ANALYTICAL REPORT

Client: Seagull Environmental Technologies, Inc.
Project: Missouri Electric Works
Sample ID: LA-12-4'
Collection Date: 25-Mar-2014 16:58

WorkOrder:HS14031226
Lab ID:HS14031226-48
Matrix:Soil

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
PCBS BY SW8082A		**Method:SW8082**		Prep:SW3546/3665A / 08-Apr-2014		Analyst: JLJ
Aroclor 1016	ND		17	ug/Kg	1	14-Apr-2014 04:39
Aroclor 1221	ND		17	ug/Kg	1	14-Apr-2014 04:39
Aroclor 1232	ND		17	ug/Kg	1	14-Apr-2014 04:39
Aroclor 1242	ND		17	ug/Kg	1	14-Apr-2014 04:39
Aroclor 1248	ND		17	ug/Kg	1	14-Apr-2014 04:39
Aroclor 1254	ND		17	ug/Kg	1	14-Apr-2014 04:39
Aroclor 1260	ND		17	ug/Kg	1	14-Apr-2014 04:39
Surr: Decachlorobiphenyl	*90.5*		*54-143*	*%REC*	*1*	*14-Apr-2014 04:39*
Surr: Tetrachloro-m-xylene	*75.5*		*55-137*	*%REC*	*1*	*14-Apr-2014 04:39*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

ANALYTICAL REPORT

Client: Seagull Environmental Technologies, Inc.
Project: Missouri Electric Works
Sample ID: LA-13-SS
Collection Date: 25-Mar-2014 17:16

WorkOrder:HS14031226
Lab ID:HS14031226-49
Matrix:Soil

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
PCBS BY SW8082A		**Method:SW8082**		Prep:SW3546/3665A / 08-Apr-2014		Analyst: JLJ
Aroclor 1016	ND		17	ug/Kg	1	14-Apr-2014 06:25
Aroclor 1221	ND		17	ug/Kg	1	14-Apr-2014 06:25
Aroclor 1232	ND		17	ug/Kg	1	14-Apr-2014 06:25
Aroclor 1242	ND		17	ug/Kg	1	14-Apr-2014 06:25
Aroclor 1248	ND		17	ug/Kg	1	14-Apr-2014 06:25
Aroclor 1254	ND		17	ug/Kg	1	14-Apr-2014 06:25
Aroclor 1260	**18**		**17**	**ug/Kg**	1	14-Apr-2014 06:25
Surr: Decachlorobiphenyl	*135*		*54-143*	*%REC*	*1*	*14-Apr-2014 06:25*
Surr: Tetrachloro-m-xylene	*113*		*55-137*	*%REC*	*1*	*14-Apr-2014 06:25*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

ANALYTICAL REPORT

Client: Seagull Environmental Technologies, Inc.
Project: Missouri Electric Works
Sample ID: LA-13-6"
Collection Date: 25-Mar-2014 17:18

WorkOrder:HS14031226
Lab ID:HS14031226-50
Matrix:Soil

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
PCBS BY SW8082A		**Method:SW8082**		Prep:SW3546/3665A / 08-Apr-2014		Analyst: JLJ
Aroclor 1016	ND		16	ug/Kg	1	14-Apr-2014 06:10
Aroclor 1221	ND		16	ug/Kg	1	14-Apr-2014 06:10
Aroclor 1232	ND		16	ug/Kg	1	14-Apr-2014 06:10
Aroclor 1242	ND		16	ug/Kg	1	14-Apr-2014 06:10
Aroclor 1248	ND		16	ug/Kg	1	14-Apr-2014 06:10
Aroclor 1254	ND		16	ug/Kg	1	14-Apr-2014 06:10
Aroclor 1260	ND		16	ug/Kg	1	14-Apr-2014 06:10
Surr: Decachlorobiphenyl	*115*		*54-143*	*%REC*	*1*	*14-Apr-2014 06:10*
Surr: Tetrachloro-m-xylene	*87.4*		*55-137*	*%REC*	*1*	*14-Apr-2014 06:10*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

ANALYTICAL REPORT

Client: Seagull Environmental Technologies, Inc.
Project: Missouri Electric Works
Sample ID: LA-13-1'
Collection Date: 25-Mar-2014 17:20

WorkOrder:HS14031226
Lab ID:HS14031226-51
Matrix:Soil

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
PCBS BY SW8082A		**Method:SW8082**		Prep:SW3546/3665A / 08-Apr-2014		Analyst: JLJ
Aroclor 1016	ND		17	ug/Kg	1	14-Apr-2014 06:41
Aroclor 1221	ND		17	ug/Kg	1	14-Apr-2014 06:41
Aroclor 1232	ND		17	ug/Kg	1	14-Apr-2014 06:41
Aroclor 1242	ND		17	ug/Kg	1	14-Apr-2014 06:41
Aroclor 1248	ND		17	ug/Kg	1	14-Apr-2014 06:41
Aroclor 1254	ND		17	ug/Kg	1	14-Apr-2014 06:41
Aroclor 1260	ND		17	ug/Kg	1	14-Apr-2014 06:41
Surr: Decachlorobiphenyl	*124*		*54-143*	*%REC*	*1*	*14-Apr-2014 06:41*
Surr: Tetrachloro-m-xylene	*120*		*55-137*	*%REC*	*1*	*14-Apr-2014 06:41*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

ANALYTICAL REPORT

Client: Seagull Environmental Technologies, Inc.
Project: Missouri Electric Works
Sample ID: LA-13-4'
Collection Date: 25-Mar-2014 17:22

WorkOrder:HS14031226
Lab ID:HS14031226-52
Matrix:Soil

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
PCBS BY SW8082A		**Method:SW8082**		Prep:SW3546/3665A / 08-Apr-2014		Analyst: JLJ
Aroclor 1016	ND		16	ug/Kg	1	14-Apr-2014 06:56
Aroclor 1221	ND		16	ug/Kg	1	14-Apr-2014 06:56
Aroclor 1232	ND		16	ug/Kg	1	14-Apr-2014 06:56
Aroclor 1242	ND		16	ug/Kg	1	14-Apr-2014 06:56
Aroclor 1248	ND		16	ug/Kg	1	14-Apr-2014 06:56
Aroclor 1254	ND		16	ug/Kg	1	14-Apr-2014 06:56
Aroclor 1260	ND		16	ug/Kg	1	14-Apr-2014 06:56
Surr: Decachlorobiphenyl	*120*		*54-143*	*%REC*	*1*	*14-Apr-2014 06:56*
Surr: Tetrachloro-m-xylene	*106*		*55-137*	*%REC*	*1*	*14-Apr-2014 06:56*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

ANALYTICAL REPORT

Client: Seagull Environmental Technologies, Inc.
Project: Missouri Electric Works
Sample ID: LA-14-SS
Collection Date: 25-Mar-2014 17:48

WorkOrder:HS14031226
Lab ID:HS14031226-53
Matrix:Soil

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
PCBS BY SW8082A		**Method:SW8082**		Prep:SW3546/3665A / 08-Apr-2014		Analyst: JLJ
Aroclor 1016	ND		83	ug/Kg	5	18-Apr-2014 23:07
Aroclor 1221	ND		83	ug/Kg	5	18-Apr-2014 23:07
Aroclor 1232	ND		83	ug/Kg	5	18-Apr-2014 23:07
Aroclor 1242	ND		83	ug/Kg	5	18-Apr-2014 23:07
Aroclor 1248	ND		83	ug/Kg	5	18-Apr-2014 23:07
Aroclor 1254	ND		83	ug/Kg	5	18-Apr-2014 23:07
Aroclor 1260	**420**		**83**	**ug/Kg**	5	18-Apr-2014 23:07
Surr: Decachlorobiphenyl	*186*	*S*	*54-143*	*%REC*	*5*	*18-Apr-2014 23:07*
Surr: Tetrachloro-m-xylene	*179*	*S*	*55-137*	*%REC*	*5*	*18-Apr-2014 23:07*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

ANALYTICAL REPORT

Client: Seagull Environmental Technologies, Inc.
Project: Missouri Electric Works
Sample ID: LA-14-6"
Collection Date: 25-Mar-2014 17:50

WorkOrder:HS14031226
Lab ID:HS14031226-54
Matrix:Soil

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
PCBS BY SW8082A		**Method:SW8082**		Prep:SW3546/3665A / 08-Apr-2014		Analyst: JLJ
Aroclor 1016	ND		83	ug/Kg	5	19-Apr-2014 00:23
Aroclor 1221	ND		83	ug/Kg	5	19-Apr-2014 00:23
Aroclor 1232	ND		83	ug/Kg	5	19-Apr-2014 00:23
Aroclor 1242	ND		83	ug/Kg	5	19-Apr-2014 00:23
Aroclor 1248	ND		83	ug/Kg	5	19-Apr-2014 00:23
Aroclor 1254	ND		83	ug/Kg	5	19-Apr-2014 00:23
Aroclor 1260	**910**		**83**	**ug/Kg**	5	19-Apr-2014 00:23
Surr: Decachlorobiphenyl	*141*		*54-143*	*%REC*	*5*	*19-Apr-2014 00:23*
Surr: Tetrachloro-m-xylene	*138*	*S*	*55-137*	*%REC*	*5*	*19-Apr-2014 00:23*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

ANALYTICAL REPORT

Client: Seagull Environmental Technologies, Inc.
Project: Missouri Electric Works
Sample ID: LA-14-1'
Collection Date: 25-Mar-2014 17:52

WorkOrder:HS14031226
Lab ID:HS14031226-55
Matrix:Soil

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
PCBS BY SW8082A		**Method:SW8082**		Prep:SW3546/3665A / 08-Apr-2014		Analyst: JLJ
Aroclor 1016	ND		83	ug/Kg	5	19-Apr-2014 00:38
Aroclor 1221	ND		83	ug/Kg	5	19-Apr-2014 00:38
Aroclor 1232	ND		83	ug/Kg	5	19-Apr-2014 00:38
Aroclor 1242	ND		83	ug/Kg	5	19-Apr-2014 00:38
Aroclor 1248	ND		83	ug/Kg	5	19-Apr-2014 00:38
Aroclor 1254	ND		83	ug/Kg	5	19-Apr-2014 00:38
Aroclor 1260	**610**		**83**	**ug/Kg**	5	19-Apr-2014 00:38
Surr: Decachlorobiphenyl	*122*		*54-143*	*%REC*	*5*	*19-Apr-2014 00:38*
Surr: Tetrachloro-m-xylene	*113*	*J*	*55-137*	*%REC*	*5*	*19-Apr-2014 00:38*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

ANALYTICAL REPORT

Client: Seagull Environmental Technologies, Inc.
Project: Missouri Electric Works
Sample ID: LA-14-4'
Collection Date: 25-Mar-2014 17:54

WorkOrder:HS14031226
Lab ID:HS14031226-56
Matrix:Soil

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
PCBS BY SW8082A		**Method:SW8082**		Prep:SW3546/3665A / 08-Apr-2014		Analyst: JLJ
Aroclor 1016	ND		830	ug/Kg	50	19-Apr-2014 00:53
Aroclor 1221	ND		830	ug/Kg	50	19-Apr-2014 00:53
Aroclor 1232	ND		830	ug/Kg	50	19-Apr-2014 00:53
Aroclor 1242	ND		830	ug/Kg	50	19-Apr-2014 00:53
Aroclor 1248	ND		830	ug/Kg	50	19-Apr-2014 00:53
Aroclor 1254	ND		830	ug/Kg	50	19-Apr-2014 00:53
Aroclor 1260	**6,100**		**830**	**ug/Kg**	50	19-Apr-2014 00:53
Surr: Decachlorobiphenyl	*187*	*JS*	*54-143*	*%REC*	*50*	*19-Apr-2014 00:53*
Surr: Tetrachloro-m-xylene	*176*	*JS*	*55-137*	*%REC*	*50*	*19-Apr-2014 00:53*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Seagull Environmental Technologies, Inc.
Project: Missouri Electric Works
WorkOrder: HS14031226

DATES REPORT

Sample ID	Client Samp ID	Collection Date	TCLP Date	Prep Date	Analysis Date	DF
Batch ID 80459	**Test Name :** PCBS BY SW8082A			**Matrix:** Soil		
HS14031226-01A	LA-01-SS	25 Mar 2014 10:25		08 Apr 2014 09:26	10 Apr 2014 22:54	1
HS14031226-02A	LA-01-6"	25 Mar 2014 10:27		08 Apr 2014 09:26	10 Apr 2014 23:39	1
HS14031226-03A	LA-01-1'	25 Mar 2014 10:40		08 Apr 2014 09:26	10 Apr 2014 23:54	1
HS14031226-04A	LA-01-5'	25 Mar 2014 10:42		08 Apr 2014 09:26	11 Apr 2014 00:09	1
HS14031226-05A	LA-02-SS'	25 Mar 2014 12:10		08 Apr 2014 09:26	11 Apr 2014 00:25	1
HS14031226-06A	LA-02-6"	25 Mar 2014 12:12		08 Apr 2014 09:26	11 Apr 2014 00:40	1
HS14031226-07A	LA-02-1'	25 Mar 2014 12:16		08 Apr 2014 09:26	10 Apr 2014 00:51	1
HS14031226-08A	LA-02-5'	25 Mar 2014 12:14		08 Apr 2014 09:26	10 Apr 2014 02:06	1
HS14031226-09A	LA-03-SS	25 Mar 2014 12:26		08 Apr 2014 09:26	10 Apr 2014 02:22	1
HS14031226-10A	LA-03-6"	25 Mar 2014 12:28		08 Apr 2014 09:26	10 Apr 2014 02:37	1
HS14031226-11A	LA-03-1'	25 Mar 2014 12:30		08 Apr 2014 09:26	10 Apr 2014 02:52	1
HS14031226-12A	LA-03-5'	25 Mar 2014 12:32		08 Apr 2014 09:26	10 Apr 2014 03:07	1
HS14031226-13A	LA-04-SS	25 Mar 2014 12:40		08 Apr 2014 09:26	10 Apr 2014 03:22	1
HS14031226-14A	LA-04-6"	25 Mar 2014 12:42		08 Apr 2014 09:26	10 Apr 2014 03:37	1
HS14031226-15A	LA-04-1'	25 Mar 2014 12:45		08 Apr 2014 09:26	10 Apr 2014 03:52	1
HS14031226-16A	LA-04-4'	25 Mar 2014 12:47		08 Apr 2014 09:26	10 Apr 2014 04:07	1
HS14031226-17A	LA-05-SS	25 Mar 2014 14:00		08 Apr 2014 09:26	10 Apr 2014 04:23	1
HS14031226-18A	LA-05-6"	25 Mar 2014 14:02		08 Apr 2014 09:26	11 Apr 2014 06:13	1
HS14031226-19A	LA-05-1'	25 Mar 2014 14:04		08 Apr 2014 09:26	11 Apr 2014 06:28	1
HS14031226-20A	LA-05-5'	25 Mar 2014 14:08		08 Apr 2014 09:26	11 Apr 2014 06:43	1

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Seagull Environmental Technologies, Inc.
Project: Missouri Electric Works
WorkOrder: HS14031226

DATES REPORT

Sample ID	Client Samp ID	Collection Date	TCLP Date	Prep Date	Analysis Date	DF
Batch ID 80520	**Test Name :** PCBS BY SW8082A			**Matrix:** Soil		
HS14031226-21A	LA-06-SS	25 Mar 2014 14:14		08 Apr 2014 21:50	11 Apr 2014 07:29	1
HS14031226-22A	LA-06-6"	25 Mar 2014 14:16		08 Apr 2014 21:50	11 Apr 2014 07:44	1
HS14031226-23A	LA-06-1'	25 Mar 2014 14:18		08 Apr 2014 21:50	11 Apr 2014 09:30	1
HS14031226-24A	LA-06-5'	25 Mar 2014 14:20		08 Apr 2014 21:50	19 Apr 2014 01:08	5
HS14031226-25A	LA-07-SS	25 Mar 2014 14:45		08 Apr 2014 21:50	11 Apr 2014 10:00	1
HS14031226-26A	LA-07-6"	25 Mar 2014 14:47		08 Apr 2014 21:50	11 Apr 2014 10:15	1
HS14031226-27A	LA-07-1'	25 Mar 2014 14:49		08 Apr 2014 21:50	11 Apr 2014 10:30	1
HS14031226-28A	LA-07-5'	25 Mar 2014 14:51		08 Apr 2014 21:50	11 Apr 2014 10:45	1
HS14031226-29A	LA-08-SS	25 Mar 2014 15:02		08 Apr 2014 21:50	11 Apr 2014 11:01	1
HS14031226-30A	LA-08-6"	25 Mar 2014 15:04		08 Apr 2014 21:50	11 Apr 2014 11:16	1
HS14031226-31A	LA-08-1'	25 Mar 2014 15:06		08 Apr 2014 21:50	11 Apr 2014 12:31	1
HS14031226-32A	LA-08-5'	25 Mar 2014 15:08		08 Apr 2014 21:50	11 Apr 2014 12:46	1
HS14031226-33A	LA-09-SS	25 Mar 2014 15:40		08 Apr 2014 21:50	11 Apr 2014 13:01	1
HS14031226-34A	LA-09-6"	25 Mar 2014 15:42		08 Apr 2014 21:50	11 Apr 2014 13:16	1
HS14031226-35A	LA-09-1'	25 Mar 2014 15:44		08 Apr 2014 21:50	11 Apr 2014 13:31	1
HS14031226-36A	LA-09-4'	25 Mar 2014 15:46		08 Apr 2014 21:50	11 Apr 2014 13:47	1
HS14031226-37A	LA-10-SS	25 Mar 2014 16:00		08 Apr 2014 21:50	11 Apr 2014 14:02	1
HS14031226-38A	LA-10-6"	25 Mar 2014 16:02		08 Apr 2014 21:50	11 Apr 2014 14:17	1
HS14031226-39A	LA-10-1'	25 Mar 2014 16:04		08 Apr 2014 21:50	11 Apr 2014 14:57	1
HS14031226-40A	LA-10-4'	25 Mar 2014 16:06		08 Apr 2014 21:50	11 Apr 2014 15:12	1
Batch ID 80522	**Test Name :** PCBS BY SW8082A			**Matrix:** Soil		
HS14031226-41A	LA-11-SS	25 Mar 2014 16:26		08 Apr 2014 21:50	11 Apr 2014 17:59	1
HS14031226-42A	LA-11-6"	25 Mar 2014 16:28		08 Apr 2014 21:50	11 Apr 2014 18:14	1
HS14031226-43A	LA-11-1'	25 Mar 2014 16:30		08 Apr 2014 21:50	11 Apr 2014 18:29	1
HS14031226-44A	LA-11-4'	25 Mar 2014 16:32		08 Apr 2014 21:50	14 Apr 2014 03:39	1
HS14031226-45A	LA-12-SS	25 Mar 2014 16:52		08 Apr 2014 21:50	14 Apr 2014 03:54	1
HS14031226-46A	LA-12-6'	25 Mar 2014 16:54		08 Apr 2014 21:50	14 Apr 2014 04:09	1
HS14031226-47A	LA-12-1'	25 Mar 2014 16:56		08 Apr 2014 21:50	14 Apr 2014 04:24	1
HS14031226-48A	LA-12-4'	25 Mar 2014 16:58		08 Apr 2014 21:50	14 Apr 2014 04:39	1
HS14031226-49A	LA-13-SS	25 Mar 2014 17:16		08 Apr 2014 21:50	14 Apr 2014 06:25	1
HS14031226-50A	LA-13-6"	25 Mar 2014 17:18		08 Apr 2014 21:50	14 Apr 2014 06:10	1
HS14031226-51A	LA-13-1'	25 Mar 2014 17:20		08 Apr 2014 21:50	14 Apr 2014 06:41	1
HS14031226-52A	LA-13-4'	25 Mar 2014 17:22		08 Apr 2014 21:50	14 Apr 2014 06:56	1
HS14031226-53A	LA-14-SS	25 Mar 2014 17:48		08 Apr 2014 21:50	18 Apr 2014 23:07	5
HS14031226-54A	LA-14-6"	25 Mar 2014 17:50		08 Apr 2014 21:50	19 Apr 2014 00:23	5
HS14031226-55A	LA-14-1'	25 Mar 2014 17:52		08 Apr 2014 21:50	19 Apr 2014 00:38	5
HS14031226-56A	LA-14-4'	25 Mar 2014 17:54		08 Apr 2014 21:50	19 Apr 2014 00:53	50

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Seagull Environmental Technologies, Inc.
WorkOrder: HS14031226
Project: Missouri Electric Works

QC BATCH REPORT

Batch ID: 80459 **Instrument: ECD_7** **Method: SW8082**

MBLK Sample ID: **PBLKS1-140408** Units: **ug/Kg** Analysis Date: **10-Apr-2014 22:24**
Client ID: Run ID: **ECD_7_232180** SeqNo: **2799841** PrepDate: **08-Apr-2014** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	ND	17								
Aroclor 1221	ND	17								
Aroclor 1232	ND	17								
Aroclor 1242	ND	17								
Aroclor 1248	ND	17								
Aroclor 1254	ND	17								
Aroclor 1260	ND	17								
Surr: Decachlorobiphenyl	*8.98*	*1.6*	*6.667*	*0*	*135*	*54 - 143*				
Surr: Tetrachloro-m-xylene	*7.614*	*1.6*	*6.667*	*0*	*114*	*55 - 137*				

LCS Sample ID: **PLCSS1-140408** Units: **ug/Kg** Analysis Date: **10-Apr-2014 22:39**
Client ID: Run ID: **ECD_7_232180** SeqNo: **2799842** PrepDate: **08-Apr-2014** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	193.3	17	166.7	0	116	53 - 135				
Aroclor 1260	196.6	17	166.7	0	118	54 - 137				
Surr: Decachlorobiphenyl	*8.252*	*1.6*	*6.667*	*0*	*124*	*54 - 143*				
Surr: Tetrachloro-m-xylene	*7.467*	*1.6*	*6.667*	*0*	*112*	*55 - 137*				

MS Sample ID: **HS14031226-01AMS** Units: **ug/Kg** Analysis Date: **10-Apr-2014 23:09**
Client ID: **LA-01-SS** Run ID: **ECD_7_232180** SeqNo: **2799844** PrepDate: **08-Apr-2014** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	172.2	17	166.5	0	103	53 - 135				
Aroclor 1260	173.3	17	166.5	0	104	54 - 137				
Surr: Decachlorobiphenyl	*7.336*	*1.6*	*6.66*	*0*	*110*	*54 - 143*				
Surr: Tetrachloro-m-xylene	*6.098*	*1.6*	*6.66*	*0*	*91.6*	*55 - 137*				

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Seagull Environmental Technologies, Inc.
WorkOrder: HS14031226
Project: Missouri Electric Works

QC BATCH REPORT

Batch ID: 80459 **Instrument: ECD_7** **Method: SW8082**

MSD Sample ID: **HS14031226-01AMSD** Units: **ug/Kg** Analysis Date: **10-Apr-2014 23:24**
Client ID: **LA-01-SS** Run ID: **ECD_7_232180** SeqNo: **2799845** PrepDate: **08-Apr-2014** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	178.1	17	166.5	0	107	53 - 135	172.2	3.36	30	
Aroclor 1260	183.1	17	166.5	0	110	54 - 137	173.3	5.52	30	
Surr: Decachlorobiphenyl	*7.789*	*1.6*	*6.66*	*0*	*117*	*54 - 143*	*7.336*	*5.99*	*30*	
Surr: Tetrachloro-m-xylene	*6.379*	*1.6*	*6.66*	*0*	*95.8*	*55 - 137*	*6.098*	*4.51*	*30*	

The following samples were anayzed in this batch:

HS14031226-01A	HS14031226-02A	HS14031226-03A	HS14031226-04A
HS14031226-05A	HS14031226-06A	HS14031226-07A	HS14031226-08A
HS14031226-09A	HS14031226-10A	HS14031226-11A	HS14031226-12A
HS14031226-13A	HS14031226-14A	HS14031226-15A	HS14031226-16A
HS14031226-17A	HS14031226-18A	HS14031226-19A	HS14031226-20A

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Seagull Environmental Technologies, Inc.
WorkOrder: HS14031226
Project: Missouri Electric Works

QC BATCH REPORT

Batch ID: 80520 **Instrument: ECD_7** **Method: SW8082**

MBLK Sample ID: **PBLKS3-140408** Units: **ug/Kg** Analysis Date: **11-Apr-2014 06:58**
Client ID: Run ID: **ECD_7_232181** SeqNo: **2799865** PrepDate: **08-Apr-2014** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	ND	17								
Aroclor 1221	ND	17								
Aroclor 1232	ND	17								
Aroclor 1242	ND	17								
Aroclor 1248	ND	17								
Aroclor 1254	ND	17								
Aroclor 1260	ND	17								
Surr: Decachlorobiphenyl	*6.847*	*1.6*	*6.667*	*0*	*103*	*54 - 143*				
Surr: Tetrachloro-m-xylene	*6.336*	*1.6*	*6.667*	*0*	*95.0*	*55 - 137*				

LCS Sample ID: **PLCSS3-140408** Units: **ug/Kg** Analysis Date: **11-Apr-2014 07:13**
Client ID: Run ID: **ECD_7_232181** SeqNo: **2799866** PrepDate: **08-Apr-2014** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	149.3	17	166.7	0	89.6	53 - 135				
Aroclor 1260	164.7	17	166.7	0	98.8	54 - 137				
Surr: Decachlorobiphenyl	*6.432*	*1.6*	*6.667*	*0*	*96.5*	*54 - 143*				
Surr: Tetrachloro-m-xylene	*5.543*	*1.6*	*6.667*	*0*	*83.1*	*55 - 137*				

MS Sample ID: **HS14031226-22AMS** Units: **ug/Kg** Analysis Date: **11-Apr-2014 08:59**
Client ID: **LA-06-6"** Run ID: **ECD_7_232181** SeqNo: **2799869** PrepDate: **08-Apr-2014** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	168.7	17	166.7	0	101	53 - 135				
Aroclor 1260	130.7	17	166.7	0	78.4	54 - 137				
Surr: Decachlorobiphenyl	*5.248*	*1.6*	*6.667*	*0*	*78.7*	*54 - 143*				
Surr: Tetrachloro-m-xylene	*4.82*	*1.6*	*6.667*	*0*	*72.3*	*55 - 137*				

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Seagull Environmental Technologies, Inc.
WorkOrder: HS14031226
Project: Missouri Electric Works

QC BATCH REPORT

Batch ID: 80520 **Instrument: ECD_7** **Method: SW8082**

MSD Sample ID: **HS14031226-22AMSD** Units: **ug/Kg** Analysis Date: **11-Apr-2014 09:15**
Client ID: **LA-06-6"** Run ID: **ECD_7_232181** SeqNo: **2799870** PrepDate: **08-Apr-2014** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	180.2	17	166.7	0	108	53 - 135	168.7	6.6	30	
Aroclor 1260	143.6	17	166.7	0	86.1	54 - 137	130.7	9.39	30	
Surr: Decachlorobiphenyl	*5.695*	*1.6*	*6.667*	*0*	*85.4*	*54 - 143*	*5.248*	*8.16*	*30*	
Surr: Tetrachloro-m-xylene	*5.088*	*1.6*	*6.667*	*0*	*76.3*	*55 - 137*	*4.82*	*5.4*	*30*	

The following samples were anayzed in this batch:

HS14031226-21A	HS14031226-22A	HS14031226-23A	HS14031226-24A
HS14031226-25A	HS14031226-26A	HS14031226-27A	HS14031226-28A
HS14031226-29A	HS14031226-30A	HS14031226-31A	HS14031226-32A
HS14031226-33A	HS14031226-34A	HS14031226-35A	HS14031226-36A
HS14031226-37A	HS14031226-38A	HS14031226-39A	HS14031226-40A

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Seagull Environmental Technologies, Inc.
WorkOrder: HS14031226
Project: Missouri Electric Works

QC BATCH REPORT

Batch ID: 80522 **Instrument: ECD_7** **Method: SW8082**

MBLK Sample ID: **PBLKS4-140408** Units: **ug/Kg** Analysis Date: **11-Apr-2014 16:28**
Client ID: Run ID: **ECD_7_232182** SeqNo: **2799889** PrepDate: **08-Apr-2014** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	ND	17								
Aroclor 1221	ND	17								
Aroclor 1232	ND	17								
Aroclor 1242	ND	17								
Aroclor 1248	ND	17								
Aroclor 1254	ND	17								
Aroclor 1260	ND	17								
Surr: Decachlorobiphenyl	*6.68*	*1.6*	*6.667*	*0*	*100*	*54 - 143*				
Surr: Tetrachloro-m-xylene	*5.997*	*1.6*	*6.667*	*0*	*89.9*	*55 - 137*				

LCS Sample ID: **PLCSS4-140408** Units: **ug/Kg** Analysis Date: **11-Apr-2014 18:44**
Client ID: Run ID: **ECD_7_232182** SeqNo: **2799893** PrepDate: **08-Apr-2014** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	151.6	17	166.7	0	91.0	53 - 135				
Aroclor 1260	164.9	17	166.7	0	98.9	54 - 137				
Surr: Decachlorobiphenyl	*6.585*	*1.6*	*6.667*	*0*	*98.8*	*54 - 143*				
Surr: Tetrachloro-m-xylene	*5.668*	*1.6*	*6.667*	*0*	*85.0*	*55 - 137*				

MS Sample ID: **HS14031226-43AMS** Units: **ug/Kg** Analysis Date: **14-Apr-2014 03:08**
Client ID: **LA-11-1'** Run ID: **ECD_7_232182** SeqNo: **2799894** PrepDate: **08-Apr-2014** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	128.8	17	166	0	77.6	53 - 135				
Aroclor 1260	156.8	17	166	0	94.5	54 - 137				
Surr: Decachlorobiphenyl	*6.372*	*1.6*	*6.64*	*0*	*96.0*	*54 - 143*				
Surr: Tetrachloro-m-xylene	*5.467*	*1.6*	*6.64*	*0*	*82.3*	*55 - 137*				

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Seagull Environmental Technologies, Inc.
WorkOrder: HS14031226
Project: Missouri Electric Works

QC BATCH REPORT

Batch ID: 80522 **Instrument: ECD_7** **Method: SW8082**

MSD Sample ID: **HS14031226-43AMSD** Units: **ug/Kg** Analysis Date: **14-Apr-2014 03:23**
Client ID: **LA-11-1'** Run ID: **ECD_7_232182** SeqNo: **2799895** PrepDate: **08-Apr-2014** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	159	17	166	0	95.8	53 - 135	128.8	20.9	30	
Aroclor 1260	172.6	17	166	0	104	54 - 137	156.8	9.59	30	
Surr: Decachlorobiphenyl	*6.864*	*1.6*	*6.64*	*0*	*103*	*54 - 143*	*6.372*	*7.44*	*30*	
Surr: Tetrachloro-m-xylene	*6.211*	*1.6*	*6.64*	*0*	*93.5*	*55 - 137*	*5.467*	*12.7*	*30*	

The following samples were anayzed in this batch:

HS14031226-41A	HS14031226-42A	HS14031226-43A	HS14031226-44A
HS14031226-45A	HS14031226-46A	HS14031226-47A	HS14031226-48A
HS14031226-49A	HS14031226-50A	HS14031226-51A	HS14031226-52A
HS14031226-53A	HS14031226-54A	HS14031226-55A	HS14031226-56A

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Seagull Environmental Technologies, Inc.
Project: Missouri Electric Works
WorkOrder: **HS14031226**

QUALIFIERS, ACRONYMS, UNITS

Qualifier	Description
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
M	Manually integrated, see raw data for justification
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL

Acronym	Description
DCS	Detectability Check Study
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitaion Limit
SD	Serial Dilution

Unit Reported	Description
µg/Kg	Micrograms per Kilogram
Date	

RIGHT SOLUTIONS | RIGHT PARTNER

CERTIFICATIONS,ACCREDITATIONS & LICENSES

Agency	Number	Expire Date
Arkansas	AR - 2014	27-Mar-2015
California	06248CA 2013-2014	31-Jul-2014
Dept of Defense	L2231 Rev 3-20-2014	22-Dec-2015
Illinois	003180	09-May-2014
Kansas	E-10352 8/15/2013-2014	31-Jul-2014
Kentucky	95 Year- 2013	30-Apr-2014
Louisiana	03087 2013/2014	30-Jun-2014
North Carolina	624 - 2014	31-Dec-2014
Oklahoma	2013-024	31-Aug-2014
Texas	T104704231-13-12	30-Apr-2014

RIGHT SOLUTIONS | RIGHT PARTNER

Sample Receipt Checklist

Client Name:	SEAGULL ENVIRONMENTAL TECHNOLOGIES, INC.	Date/Time Received:	**29-Mar-2014 10:15**
Work Order:	HS14031226	Received by:	**BA11**

Checklist completed by: *Paresh M. Giga* (eSignature) 31-Mar-2014 (Date)

Reviewed by: *Bernadette A. Fini* (eSignature) 31-Mar-2014 (Date)

Matrices: **Soil**

Carrier name: **FedEx**

	Yes	No	Not Present
Shipping container/cooler in good condition?	☑	☐	☐
Custody seals intact on shipping container/cooler?	☑	☐	☐
Custody seals intact on sample bottles?	☐	☐	☑
Chain of custody present?	☑	☐	
Chain of custody signed when relinquished and received?	☑	☐	
Chain of custody agrees with sample labels?	☑	☐	
Samples in proper container/bottle?	☑	☐	
Sample containers intact?	☑	☐	
Sufficient sample volume for indicated test?	☑	☐	
All samples received within holding time?	☑	☐	
Container/Temp Blank temperature in compliance?	☑	☐	

Temperature(s)/Thermometer(s): 3.9c/3.9c,2.5c/2.5c,3.5c/2.5c,4.5c/4.5c,5.6c/5.6c,2.8c/2.8c C/U IR3

Cooler(s)/Kit(s): 4375,4143,3156,5649,5922,RED-TA

Date/Time sample(s) sent to storage:

	Yes	No	No VOA vials submitted / N/A
Water - VOA vials have zero headspace?	☐	☐	No VOA vials submitted ☑
Water - pH acceptable upon receipt?	☐	☐	N/A ☑
pH adjusted?	☐	☐	N/A ☑

pH adjusted by:

Login Notes:

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

Corrective Action:

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Environmental

Cincinnati, OH +1 513 733 5336
Everett, WA +1 425 356 2600
Fort Collins, CO +1 970 490 1511
Holland, MI +1 616 399 6070

Chain of Custody For

Page 1 of 6

COC ID: 102628

ALS Project Manager:

14031226

SEAGULL ENVIRONMENTAL TECHNOLOGIES, INC.: Seagull Environmental Technologies, Inc.

Project: Missouri Electric Works

Customer Information		Project Information			
Purchase Order		Project Name	Missouri Electric Works	A	PCB 8082
Work Order		Project Number		B	VOC TCL (8260)
Company Name	Seagull Environmental Technologies, Inc.	Bill To Company	Seagull Environmental Technologies, I	C	
Send Report To	Jeff Pritchard	Invoice Attn	Jeff Pritchard	D	
Address	415 Oak Street	Address	415 Oak Street	E	
				F	
City/State/Zip	Kansas City, MO 64106	City/State/Zip	Kansas City, MO 64106	G	
Phone	(816) 412-1937	Phone	(816) 412-1937	H	
Fax		Fax		I	
e-Mail Address	jpritchard@seagullenvirotech.com	e-Mail Address		J	

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	LA-01-SS	03-25-14	1025	Soil	None	1	X										
2	LA-01-6"		1027			1	X										
3	LA-01-1'		1040			1	X										
4	LA-01-5'		1042			1	X										
5	LA-02-SS		1210			1	X										
6	LA-02-6"		1212			1	X										
7	LA-02-1'		1216			1	X										
8	LA-02-5'		1214			1	X										
9	LA-03-SS		1226			1	X										
10	LA-03-6"		1228			1	X										

Sampler(s) Please Print & Sign: Greg Dillon / Cosmo Cannaccini

Shipment Method:

Required Turnaround Time: (Check Box) ☑ Std 10 WK Days ☐ 5 WK Days ☐ Other ☐ 2 WK Days ☐ 24 Hour

Results Due Date:

Relinquished by:	Date:	Time:	Received by:
[signature]	03/28/14	1500	
Relinquished by:	Date: 3/29/14	Time: 10:15	Received by (Laboratory): [signature]
Logged by (Laboratory):	Date:	Time:	Checked by (Laboratory):

Notes:

Cooler ID	Cooler Temp.

QC Package: (Check One Box Below)
☑ Level II Std QC
☐ Level III Std QC/Raw Data
☐ Level IV SW846/CLP
☐ Other / EDD
☐ TRRP CheckList
☐ TRRP Level IV

Preservative Key: 1-HCl 2-HNO_3 3-H_2SO_4 4-NaOH 5-$Na_2S_2O_3$ 6-$NaHSO_4$ 7-Other 8-4°C 9-5035

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.
2. Unless otherwise agreed in a formal contract, services provided by ALS Environmental are expressly limited to the terms and conditions stated on the reverse.
3. The Chain of Custody is a legal document. All information must be completed accurately.

Copyright 2011 by ALS Environmental

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Environmental

Cincinnati, OH +1 513 733 5336 | Fort Collins, CO +1 970 490 1511 | Houston, TX +1 281 530 5656 | Spring City, PA +1 610 948 4903 | South Charleston, WV +1 304 356 3168
Everett, WA +1 425 356 2600 | Holland, MI +1 616 399 6070 | Middletown, PA +1 717 944 5541 | Salt Lake City, UT +1 801 266 7700 | York, PA +1 717 505 5280

Chain of Custody Form

Page 2 of 6

COC ID: 102629

ALS Project Manager: | ALS Work Order #: 14031226

Customer Information		Project Information		Parameter/Method Request for Analysis	
Purchase Order		Project Name	Missouri Electric Works	A	PCB 8082
Work Order		Project Number		B	VOC TCL (8260)
Company Name	Seagull Environmental Technologies, Inc.	Bill To Company	Seagull Environmental Technologies, I	C	
Send Report To	Jeff Pritchard	Invoice Attn	Jeff Pritchard	D	
Address	415 Oak Street	Address	415 Oak Street	E	
				F	
City/State/Zip	Kansas City, MO 64106	City/State/Zip	Kansas City, MO 64106	G	
Phone	(816) 412-1937	Phone	(816) 412-1937	H	
Fax		Fax		I	
e-Mail Address	jpritchard@seagullenvirotech.com	e-Mail Address		J	

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	LA-03-1'	03/25/14	1230	Soil	None	1	X										
2	LA-03-5'		1232			1	X										
3	LA-04-SS		1240			1	X										
4	LA-04-6"		1242			1	X										
5	LA-04-1'		1245			1	X										
6	LA-04-4'		1247			1	X										
7	LA-05-SS		1400			1	X										
8	LA-05-6"		1402			1	X										
9	LA-05-1'		1404			1	X										
10	LA-05-5'		1408			1	X										

Sampler(s) Please Print & Sign: Greg R. Dillon / Cosmo Cancari

Shipment Method:

Required Turnaround Time: (Check Box) ☑ Std 10 WK Days ☐ 5 WK Days ☐ Other ☐ 2 WK Days ☐ 24 Hour

Results Due Date:

Relinquished by:	Date:	Time:	Received by:
[signature]	03/28/14	1500	
Relinquished by:	Date: 3/29/14	Time: 10:15	Received by (Laboratory): [signature]
Logged by (Laboratory):	Date:	Time:	Checked by (Laboratory):

Notes:

Cooler ID	Cooler Temp.

QC Package: (Check One Box Below)
☑ Level II Std QC
☐ Level III Std QC/Raw Data
☐ Level IV SW846/CLP
☐ Other / EDD
☐ TRRP CheckList
☐ TRRP Level IV

Preservative Key: 1-HCl 2-HNO_3 3-H_2SO_4 4-NaOH 5-$Na_2S_2O_3$ 6-$NaHSO_4$ 7-Other 8-4°C 9-5035

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.
2. Unless otherwise agreed in a formal contract, services provided by ALS Environmental are expressly limited to the terms and conditions stated on the reverse.
3. The Chain of Custody is a legal document. All information must be completed accurately.

Copyright 2011 by ALS Environmental.

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Environmental

Cincinnati, OH +1 513 733 5336 | Fort Collins, CO +1 970 490 1511 | Houston, TX +1 281 530 5656 | Spring City, PA +1 610 948 4903 | South Charleston, WV +1 304 356 3168
Everett, WA +1 425 356 2600 | Holland, MI +1 616 399 6070 | Middletown, PA +1 717 944 5541 | Salt Lake City, UT +1 801 266 7700 | York, PA +1 717 505 5280

Chain of Custody Form

Page 3 of 6

COC ID: 102627

ALS Project Manager: | ALS Work Order #: 14031226

Customer Information		Project Information		Parameter/Method Request for Analysis	
Purchase Order		Project Name	Missouri Electric Works	A	PCB 8082
Work Order		Project Number		B	VOC TCL (8260)
Company Name	Seagull Environmental Technologies, Inc.	Bill To Company	Seagull Environmental Technologies, I	C	
Send Report To	Jeff Pritchard	Invoice Attn	Jeff Pritchard	D	
Address	415 Oak Street	Address	415 Oak Street	E	
				F	
City/State/Zip	Kansas City, MO 64106	City/State/Zip	Kansas City, MO 64106	G	
Phone	(816) 412-1937	Phone	(816) 412-1937	H	
Fax		Fax		I	
e-Mail Address	jpritchard@seagullenvirotech.com	e-Mail Address		J	

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	LA-06-SS	03/25/14	1414	Soil	None	1	X										
2	LA-06-6"		1416			1	X										
3	LA-06-1'		1418			1	X										
4	LA-06-5'		1420			1	X										
5	LA-07-SS		1445			1	X										
6	LA-07-6"		1447			1	X										
7	LA-07-1'		1449			1	X										
8	LA-07-5'		1451			1	X										
9	LA-08-SS		1502			1	X										
10	LA-08-6"		4504			1	X										

Sampler(s) Please Print & Sign: Greg R Dillon / Cosmo Cenacori

Shipment Method:

Required Turnaround Time: (Check Box) ☑ Std 10 WK Days ☐ 5 WK Days ☐ Other ____ ☐ 2 WK Days ☐ 24 Hour

Results Due Date:

Relinquished by:	Date:	Time:	Received by:
[signature]	03/28/14	1500	
Relinquished by:	Date: 3/29/14	Time: 10:15	Received by (Laboratory): [signature]
Logged by (Laboratory):	Date:	Time:	Checked by (Laboratory):

Notes:

Cooler ID	Cooler Temp.

QC Package: (Check One Box Below)
☑ Level II Std QC
☐ Level III Std QC/Raw Data
☐ Level IV SW846/CLP
☐ Other / EDD
☐ TRRP CheckList
☐ TRRP Level IV

Preservative Key: 1-HCl 2-HNO_3 3-H_2SO_4 4-NaOH 5-$Na_2S_2O_3$ 6-$NaHSO_4$ 7-Other 8-4°C 9-5035

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.
2. Unless otherwise agreed in a formal contract, services provided by ALS Environmental are expressly limited to the terms and conditions stated on the reverse.
3. The Chain of Custody is a legal document. All information must be completed accurately.

Copyright 2011 by ALS Environmental.

RIGHT SOLUTIONS | RIGHT PARTNER

☐ **ALS Laboratory Group**
10450 Stancliff Rd., Suite 210
Houston, Texas 77099
Tel. +1 281 530 5656
Fax. +1 281 530 5887

Chain of Custody Form

Page 4 of 6

☐ **ALS Laboratory Group**
3352 128th Ave.
Holland, MI 49424-9263
Tel: +1 616 399 6070
Fax: +1 616 399 6185

ALS Project Manager: | ALS Work Order #: 14031226.

Customer Information		Project Information		Parameter/Method Request for Analysis	
Purchase Order		Project Name		A	PCBs 8082
Work Order		Project Number		B	
Company Name		Bill To Company		C	
Send Report To		Invoice Attn		D	
Address	SAME	Address	SAME	E	
				F	
City/State/Zip		City/State/Zip		G	
Phone		Phone		H	
Fax		Fax		I	
e-Mail Address		e-Mail Address		J	

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	LA-08-1'	03/25/14	1506	Soil	None	1	X										
2	LA-08-5'		1508			1	X										
3	LA-09-SS		1540			1	X										
4	LA-09-6"		1542			1	X										
5	LA-09-1'		1544			1	X										
6	LA-09-4'		1546			1	X										
7	~~LA-09~~ LA-10-SS		1600			1	X										
8	LA-10-6"		1602			1	X										
9	LA-10-1'		1604			1	X										
10	LA-10-4'		1606			1	X										

Sampler(s) Please Print & Sign: Greg Dillon / Cosmo Cinauri

Shipment Method: FedEx

Required Turnaround Time: (Check Box) ☐ Other _____ ☒ STD 10 Wk Days ☐ 5 Wk Days ☐ 2 Wk Days ☐ 24 Hour

Results Due Date:

Relinquished by:	Date: 03/28/14	Time: 1500	Received by:
Relinquished by:	Date: 3/29/14	Time: 10:15	Received by (Laboratory):
Logged by (Laboratory):	Date:	Time:	Checked by (Laboratory):

Notes:

Cooler ID	Cooler Temp

QC Package: (Check One Box Below)
☐ Level II Std QC ☐ TRRP Checklist
☐ Level III Std QC/Raw Date ☐ TRRP Level IV
☐ Level IV SW846/CLP
☐ Other _____

Preservative Key: 1-HCl 2-HNO_3 3-H_2SO_4 4-NaOH 5-$Na_2S_2O_3$ 6-$NaHSO_4$ 7-Other 8-4°C 9-5035

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Laboratory Group.
2. Unless otherwise agreed in a formal contract, services provided by ALS Laboratory Group are ...

RIGHT SOLUTIONS | RIGHT PARTNER

☐ ALS Laboratory Group
10450 Stancliff Rd., Suite 210
Houston, Texas 77099
Tel. +1 281 530 5656
Fax. +1 281 530 5887

Chain of Custody Form

Page 5 of 6

☐ ALS Laboratory Group
3352 128th Ave.
Holland, MI 49424-9263
Tel: +1 616 399 6070
Fax: +1 616 399 6185

ALS Project Manager: | ALS Work Order #: 1403122 6.

Customer Information		Project Information		Parameter/Method Request for Analysis	
Purchase Order		Project Name		A	PCBs 8082
Work Order		Project Number		B	
Company Name		Bill To Company		C	
Send Report To		Invoice Attn		D	
Address	SAME	Address	SAME	E	
				F	
City/State/Zip		City/State/Zip		G	
Phone		Phone		H	
Fax		Fax		I	
e-Mail Address		e-Mail Address		J	

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	LA-11-SS	03/25/14	1626	Soil	None	1	X										
2	LA-11-6"		1628			1	X										
3	LA-11-1'		1630			1	X										
4	LA-11-4'		1632			1	X										
5	LA-12-SS		1652			1	X										
6	LA-12-6"		1654			1	X										
7	LA-12-1'		1656			1	X										
8	LA-12-4'		1658			1	X										
9	LA-13-SS		1716			1	X										
10	LA-13-6"		1718			1	X										

Sampler(s) Please Print & Sign: Greg R. Dillon / Cosmo Concrete

Shipment Method:

Required Turnaround Time: (Check Box) ☐ Other _____ ☐ STD 10 Wk Days ☐ 5 Wk Days ☐ 2 Wk Days ☐ 24 Hour

Results Due Date:

Relinquished by:	Date:	Time:	Received by:
[signature]	03/28/14	1500	
Relinquished by:	Date: 3/29/14	Time: 10:15	Received by (Laboratory): [signature]
Logged by (Laboratory):	Date:	Time:	Checked by (Laboratory):

Notes:

Cooler ID	Cooler Temp

QC Package: (Check One Box Below)
☐ Level II Std QC ☐ TRRP Checklist
☐ Level III Std QC/Raw Date ☐ TRRP Level IV
☐ Level IV SW846/CLP
☐ Other _____

Preservative Key: 1-HCl 2-HNO_3 3-H_2SO_4 4-NaOH 5-$Na_2S_2O_3$ 6-$NaHSO_4$ 7-Other 8-4°C 9-5035

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Laboratory Group.

Copyright 2006 ALS Laboratory Group

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Environmental

Cincinnati, OH +1 513 733 5336 | Fort Collins, CO +1 970 490 1511 | Houston, TX +1 281 530 5656 | Spring City, PA +1 610 948 4903 | +1 304 356 3168
Everett, WA +1 425 356 2600 | Holland, MI +1 616 399 6070 | Middletown, PA +1 717 944 5541 | Salt Lake City, UT +1 801 266 7700 | York, PA +1 717 505 5280

Chain of Custody Form

Page 6 of 6

COC ID: 102626

ALS Project Manager: | ALS Work Order #: 14031226.

Customer Information		Project Information		Parameter/Method Request for Analysis	
Purchase Order		Project Name	Missouri Electric Works	A	PCB 8082
Work Order		Project Number		B	VOC TCL (8260)
Company Name	Seagull Environmental Technologies, Inc.	Bill To Company	Seagull Environmental Technologies, I	C	
Send Report To	Jeff Pritchard	Invoice Attn	Jeff Pritchard	D	
Address	415 Oak Street	Address	415 Oak Street	E	
				F	
City/State/Zip	Kansas City, MO 64106	City/State/Zip	Kansas City, MO 64106	G	
Phone	(816) 412-1937	Phone	(816) 412-1937	H	
Fax		Fax		I	
e-Mail Address	jpritchard@seagullenvirotech.com	e-Mail Address		J	

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	LA-13-1'	03/25/14	1720	Soil	None	1	X										
2	LA-13-4'		1722			1	X										
3	LA-14-SS		1748			1	X										
4	LA-14-6"		1750			1	X										
5	LA-14-1'		1752			1	X										
6	LA-14-4'		1754			1	X										
7																	
8																	
9																	
10																	

03/28/14

Sampler(s) Please Print & Sign: Greg R Dillon / Cosmo Cancerni

Shipment Method:

Required Turnaround Time: (Check Box) ☑ Std 10 WK Days ☐ 5 WK Days ☐ Other ☐ 2 WK Days ☐ 24 Hour

Results Due Date:

Relinquished by:	Date:	Time:	Received by:
[signature]	03/28/14	1500	
Relinquished by:	Date: 3/29/14	Time: 10:15	Received by (Laboratory): [signature]
Logged by (Laboratory):	Date:	Time:	Checked by (Laboratory):

Notes:

Cooler ID	Cooler Temp.

QC Package: (Check One Box Below)
☑ Level II Std QC
☐ Level III Std QC/Raw Data
☐ Level IV SW846/CLP
☐ Other / EDD
☐ TRRP CheckList
☐ TRRP Level IV

Preservative Key: 1-HCl 2-HNO_3 3-H_2SO_4 4-NaOH 5-$Na_2S_2O_3$ 6-$NaHSO_4$ 7-Other 8-4°C 9-5035

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.
2. Unless otherwise agreed in a formal contract, services provided by ALS Environmental are expressly limited to the terms and conditions stated on the reverse.
3. The Chain of Custody is a legal document. All information must be completed accurately.

Copyright 2011 by ALS Environmenta

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Environmental
10450 Stancliff Rd.,
Houston, Texas 770
Tel. +1 281
Fax. +1 281 530 50

CUSTODY SEAL
Date: 03/28/14 Time: 1500
Name: Greg Dillon
Company: Seagull

Seal Broken By:
Date:

Do Not Lift Using This Tag

FedEx 2 of 6
MPS# 0681 7949 3504 0234
Mstr# 8042 5199 0886
0215

SATURDAY 9:30A
FIRST OVERNIGHT

XO SGRA

77099
TX-US IAH

CUSTODY SEAL
28/14 Time: 1500
Dillon
Seagull

Seal Broken By:
Date:

ALS Environmental
10450 Stancliff Rd., Suite 210
Houston, Texas 77099
Tel. +1 281 530 5656
Fax. +1 281 530 5887

Date: 03/
Name:
Company:

Do Not Lift Using This Tag

FedEx 5 of 6
MPS# 0681 7949 3504 0267
Mstr# 8042 5199 0886
0215

SATURDAY 9:30A
FIRST OVERNIGHT

XO SGRA

77099
TX-US IAH

Do Not Lift Using This Tag

FedEx 6 of 6
MPS# 0681 7949 3504 0278
Mstr# 8042 5199 0886
0215

SATURDAY 9:30A
FIRST OVERNIGHT

XO SGRA

77099
TX-US IAH

#545836 03/28 S22G1/CC4F/F220

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Environmental
10450 Stancliff Rd., Suite 210
Houston, Texas 77099
Tel. +1 281 530 5656
Fax. +1 281 530 5887

Date: 6
Name:
Company:

CUSTODY SEAL
3/28/14 Time: 1510
Greg Dillon
Seagull

Seal Broken By:
Date: 3-31-14

ALS Environmental
10450 Stancliff Rd., Suite 210
Houston, Texas 77099
Tel. +1 281 530 5656
Fax. +1 281 530 5887

Date:
Name:
Company

CUSTODY SEAL
03/28/14 Time: 1500
Greg Dillon
Seagull

Seal Broken By:
Date: 3-31-14

FedEx Saturday Delivery

FedEx 1 of 6
TRK# 0215 8042 5199 0886
MASTER
XO SGRA

SATURDAY 9:30A
FIRST OVERNIGHT
77099
TX-US IAH

Do Not Lift Using This Tag

FedEx 4 of 6
MPS# 0681 7949 3504 0256
Mstr# 8042 5199 0886 0215
XO SGRA

SATURDAY 9:30A
FIRST OVERNIGHT
77099
TX-US IAH

RIGHT SOLUTIONS | RIGHT PARTNER

10450 Stancliff Rd. Suite 210
Houston, TX 77099
T: +1 281 530 5656
F: +1 281 530 5887
www.alsglobal.com

April 21, 2014

Jeff Pritchard
Seagull Environmental Technologies, Inc.
415 Oak Street
Kansas City, MO 64106

Work Order: **HS14031227**

Laboratory Results for: **Missouri Electric Works**

Dear Jeff,

ALS Environmental received 16 sample(s) on Mar 29, 2014 for the analysis presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

Generated By: Bernadette.Fini

Bernadette A. Fini
Project Manager

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Seagull Environmental Technologies, Inc.
Project: Missouri Electric Works
Work Order: HS14031227

SAMPLE SUMMARY

Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS14031227-01	RA-01-SS	Soil		25-Mar-2014 08:38	29-Mar-2014 10:15	☐
HS14031227-02	RA-01-6"	Soil		25-Mar-2014 08:40	29-Mar-2014 10:15	☐
HS14031227-03	RA-02-SS	Soil		25-Mar-2014 08:45	29-Mar-2014 10:15	☐
HS14031227-04	RA-02-6"	Soil		25-Mar-2014 08:47	29-Mar-2014 10:15	☐
HS14031227-05	RA-03-SS	Soil		25-Mar-2014 08:52	29-Mar-2014 10:15	☐
HS14031227-06	RA-03-6"	Soil		25-Mar-2014 08:54	29-Mar-2014 10:15	☐
HS14031227-07	RA-04-SS	Soil		25-Mar-2014 09:00	29-Mar-2014 10:15	☐
HS14031227-08	RA-04-6"	Soil		25-Mar-2014 09:02	29-Mar-2014 10:15	☐
HS14031227-09	WRSD-1-SS	Soil		26-Mar-2014 13:26	29-Mar-2014 10:15	☐
HS14031227-10	WRSD-1-6"	Soil		26-Mar-2014 13:39	29-Mar-2014 10:15	☐
HS14031227-11	WRSD-2-SS	Soil		26-Mar-2014 13:49	29-Mar-2014 10:15	☐
HS14031227-12	WRSD-2-6"	Soil		26-Mar-2014 13:54	29-Mar-2014 10:15	☐
HS14031227-13	UA-08-SS	Soil		27-Mar-2014 12:06	29-Mar-2014 10:15	☐
HS14031227-14	UA-08-6"	Soil		27-Mar-2014 12:08	29-Mar-2014 10:15	☐
HS14031227-15	UA-09-SS	Soil		27-Mar-2014 12:10	29-Mar-2014 10:15	☐
HS14031227-16	UA-09-6"	Soil		27-Mar-2014 12:12	29-Mar-2014 10:15	☐

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Seagull Environmental Technologies, Inc.
Project: Missouri Electric Works
Work Order: HS14031227

CASE NARRATIVE

Batch 80562, PCB Method 8082, Samples analyzed at a dilution due to the level of Aroclor detected. Reporting limits were adjusted accordingly.

RIGHT SOLUTIONS | RIGHT PARTNER

ANALYTICAL REPORT

Client: Seagull Environmental Technologies, Inc.
Project: Missouri Electric Works
Sample ID: RA-01-SS
Collection Date: 25-Mar-2014 08:38

WorkOrder:HS14031227
Lab ID:HS14031227-01
Matrix:Soil

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
PCBS BY SW8082A		**Method:SW8082**		Prep:SW3546/3665A / 10-Apr-2014		Analyst: JLJ
Aroclor 1016	ND		84	ug/Kg	5	18-Apr-2014 06:07
Aroclor 1221	ND		84	ug/Kg	5	18-Apr-2014 06:07
Aroclor 1232	ND		84	ug/Kg	5	18-Apr-2014 06:07
Aroclor 1242	ND		84	ug/Kg	5	18-Apr-2014 06:07
Aroclor 1248	ND		84	ug/Kg	5	18-Apr-2014 06:07
Aroclor 1254	ND		84	ug/Kg	5	18-Apr-2014 06:07
Aroclor 1260	**940**		**84**	**ug/Kg**	5	18-Apr-2014 06:07
Surr: Decachlorobiphenyl	*115*	*J*	*54-143*	*%REC*	*5*	*18-Apr-2014 06:07*
Surr: Tetrachloro-m-xylene	*106*	*J*	*55-137*	*%REC*	*5*	*18-Apr-2014 06:07*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

ANALYTICAL REPORT

Client: Seagull Environmental Technologies, Inc.
Project: Missouri Electric Works
Sample ID: RA-01-6"
Collection Date: 25-Mar-2014 08:40

WorkOrder:HS14031227
Lab ID:HS14031227-02
Matrix:Soil

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
PCBS BY SW8082A		**Method:SW8082**		Prep:SW3546/3665A / 10-Apr-2014		Analyst: JLJ
Aroclor 1016	ND		83	ug/Kg	5	18-Apr-2014 06:22
Aroclor 1221	ND		83	ug/Kg	5	18-Apr-2014 06:22
Aroclor 1232	ND		83	ug/Kg	5	18-Apr-2014 06:22
Aroclor 1242	ND		83	ug/Kg	5	18-Apr-2014 06:22
Aroclor 1248	ND		83	ug/Kg	5	18-Apr-2014 06:22
Aroclor 1254	ND		83	ug/Kg	5	18-Apr-2014 06:22
Aroclor 1260	**1,100**		**83**	**ug/Kg**	5	18-Apr-2014 06:22
Surr: Decachlorobiphenyl	*124*		*54-143*	*%REC*	*5*	*18-Apr-2014 06:22*
Surr: Tetrachloro-m-xylene	*115*	*J*	*55-137*	*%REC*	*5*	*18-Apr-2014 06:22*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

ANALYTICAL REPORT

Client: Seagull Environmental Technologies, Inc.
Project: Missouri Electric Works
Sample ID: RA-02-SS
Collection Date: 25-Mar-2014 08:45

WorkOrder:HS14031227
Lab ID:HS14031227-03
Matrix:Soil

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
PCBS BY SW8082A		**Method:SW8082**		Prep:SW3546/3665A / 10-Apr-2014		Analyst: JLJ
Aroclor 1016	ND		82	ug/Kg	5	18-Apr-2014 06:37
Aroclor 1221	ND		82	ug/Kg	5	18-Apr-2014 06:37
Aroclor 1232	ND		82	ug/Kg	5	18-Apr-2014 06:37
Aroclor 1242	ND		82	ug/Kg	5	18-Apr-2014 06:37
Aroclor 1248	ND		82	ug/Kg	5	18-Apr-2014 06:37
Aroclor 1254	ND		82	ug/Kg	5	18-Apr-2014 06:37
Aroclor 1260	**540**		**82**	**ug/Kg**	5	18-Apr-2014 06:37
Surr: Decachlorobiphenyl	*127*		*54-143*	*%REC*	*5*	*18-Apr-2014 06:37*
Surr: Tetrachloro-m-xylene	*127*		*55-137*	*%REC*	*5*	*18-Apr-2014 06:37*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

ANALYTICAL REPORT

Client: Seagull Environmental Technologies, Inc.
Project: Missouri Electric Works
Sample ID: RA-02-6"
Collection Date: 25-Mar-2014 08:47

WorkOrder:HS14031227
Lab ID:HS14031227-04
Matrix:Soil

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
PCBS BY SW8082A		**Method:SW8082**		Prep:SW3546/3665A / 10-Apr-2014		Analyst: JLJ
Aroclor 1016	ND		33	ug/Kg	2	18-Apr-2014 06:52
Aroclor 1221	ND		33	ug/Kg	2	18-Apr-2014 06:52
Aroclor 1232	ND		33	ug/Kg	2	18-Apr-2014 06:52
Aroclor 1242	ND		33	ug/Kg	2	18-Apr-2014 06:52
Aroclor 1248	ND		33	ug/Kg	2	18-Apr-2014 06:52
Aroclor 1254	ND		33	ug/Kg	2	18-Apr-2014 06:52
Aroclor 1260	**360**		**33**	**ug/Kg**	2	18-Apr-2014 06:52
Surr: Decachlorobiphenyl	*105*		*54-143*	*%REC*	*2*	*18-Apr-2014 06:52*
Surr: Tetrachloro-m-xylene	*89.8*		*55-137*	*%REC*	*2*	*18-Apr-2014 06:52*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

ANALYTICAL REPORT

Client: Seagull Environmental Technologies, Inc.
Project: Missouri Electric Works
Sample ID: RA-03-SS
Collection Date: 25-Mar-2014 08:52

WorkOrder:HS14031227
Lab ID:HS14031227-05
Matrix:Soil

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
PCBS BY SW8082A		**Method:SW8082**		Prep:SW3546/3665A / 10-Apr-2014		Analyst: JLJ
Aroclor 1016	ND		16	ug/Kg	1	14-Apr-2014 11:14
Aroclor 1221	ND		16	ug/Kg	1	14-Apr-2014 11:14
Aroclor 1232	ND		16	ug/Kg	1	14-Apr-2014 11:14
Aroclor 1242	ND		16	ug/Kg	1	14-Apr-2014 11:14
Aroclor 1248	ND		16	ug/Kg	1	14-Apr-2014 11:14
Aroclor 1254	ND		16	ug/Kg	1	14-Apr-2014 11:14
Aroclor 1260	**160**		**16**	**ug/Kg**	1	14-Apr-2014 11:14
Surr: Decachlorobiphenyl	*118*		*54-143*	*%REC*	*1*	*14-Apr-2014 11:14*
Surr: Tetrachloro-m-xylene	*87.7*		*55-137*	*%REC*	*1*	*14-Apr-2014 11:14*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

ANALYTICAL REPORT

Client: Seagull Environmental Technologies, Inc.
Project: Missouri Electric Works
Sample ID: RA-03-6"
Collection Date: 25-Mar-2014 08:54

WorkOrder:HS14031227
Lab ID:HS14031227-06
Matrix:Soil

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
PCBS BY SW8082A		**Method:SW8082**		Prep:SW3546/3665A / 10-Apr-2014		Analyst: JLJ
Aroclor 1016	ND		17	ug/Kg	1	14-Apr-2014 11:29
Aroclor 1221	ND		17	ug/Kg	1	14-Apr-2014 11:29
Aroclor 1232	ND		17	ug/Kg	1	14-Apr-2014 11:29
Aroclor 1242	ND		17	ug/Kg	1	14-Apr-2014 11:29
Aroclor 1248	ND		17	ug/Kg	1	14-Apr-2014 11:29
Aroclor 1254	ND		17	ug/Kg	1	14-Apr-2014 11:29
Aroclor 1260	ND		17	ug/Kg	1	14-Apr-2014 11:29
Surr: Decachlorobiphenyl	*110*		*54-143*	*%REC*	*1*	*14-Apr-2014 11:29*
Surr: Tetrachloro-m-xylene	*92.5*		*55-137*	*%REC*	*1*	*14-Apr-2014 11:29*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

ANALYTICAL REPORT

Client: Seagull Environmental Technologies, Inc.
Project: Missouri Electric Works
Sample ID: RA-04-SS
Collection Date: 25-Mar-2014 09:00

WorkOrder:HS14031227
Lab ID:HS14031227-07
Matrix:Soil

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
PCBS BY SW8082A		**Method:SW8082**		Prep:SW3546/3665A / 10-Apr-2014		Analyst: JLJ
Aroclor 1016	ND		17	ug/Kg	1	14-Apr-2014 13:15
Aroclor 1221	ND		17	ug/Kg	1	14-Apr-2014 13:15
Aroclor 1232	ND		17	ug/Kg	1	14-Apr-2014 13:15
Aroclor 1242	ND		17	ug/Kg	1	14-Apr-2014 13:15
Aroclor 1248	ND		17	ug/Kg	1	14-Apr-2014 13:15
Aroclor 1254	**37**		**17**	**ug/Kg**	1	14-Apr-2014 13:15
Aroclor 1260	**49**		**17**	**ug/Kg**	1	14-Apr-2014 13:15
Surr: Decachlorobiphenyl	*126*		*54-143*	*%REC*	*1*	*14-Apr-2014 13:15*
Surr: Tetrachloro-m-xylene	*96.8*		*55-137*	*%REC*	*1*	*14-Apr-2014 13:15*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

ANALYTICAL REPORT

Client: Seagull Environmental Technologies, Inc.
Project: Missouri Electric Works
Sample ID: RA-04-6"
Collection Date: 25-Mar-2014 09:02

WorkOrder:HS14031227
Lab ID:HS14031227-08
Matrix:Soil

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
PCBS BY SW8082A		**Method:SW8082**		Prep:SW3546/3665A / 10-Apr-2014		Analyst: JLJ
Aroclor 1016	ND		16	ug/Kg	1	14-Apr-2014 13:30
Aroclor 1221	ND		16	ug/Kg	1	14-Apr-2014 13:30
Aroclor 1232	ND		16	ug/Kg	1	14-Apr-2014 13:30
Aroclor 1242	ND		16	ug/Kg	1	14-Apr-2014 13:30
Aroclor 1248	ND		16	ug/Kg	1	14-Apr-2014 13:30
Aroclor 1254	**200**		**16**	**ug/Kg**	1	14-Apr-2014 13:30
Aroclor 1260	**200**		**16**	**ug/Kg**	1	14-Apr-2014 13:30
Surr: Decachlorobiphenyl	*117*		*54-143*	*%REC*	*1*	*14-Apr-2014 13:30*
Surr: Tetrachloro-m-xylene	*86.7*		*55-137*	*%REC*	*1*	*14-Apr-2014 13:30*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

ANALYTICAL REPORT

Client: Seagull Environmental Technologies, Inc.
Project: Missouri Electric Works
Sample ID: WRSD-1-SS
Collection Date: 26-Mar-2014 13:26

WorkOrder:HS14031227
Lab ID:HS14031227-09
Matrix:Soil

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
PCBS BY SW8082A		**Method:SW8082**		Prep:SW3546/3665A / 10-Apr-2014		Analyst: JLJ
Aroclor 1016	ND		84	ug/Kg	5	18-Apr-2014 07:07
Aroclor 1221	ND		84	ug/Kg	5	18-Apr-2014 07:07
Aroclor 1232	ND		84	ug/Kg	5	18-Apr-2014 07:07
Aroclor 1242	ND		84	ug/Kg	5	18-Apr-2014 07:07
Aroclor 1248	ND		84	ug/Kg	5	18-Apr-2014 07:07
Aroclor 1254	ND		84	ug/Kg	5	18-Apr-2014 07:07
Aroclor 1260	**590**		**84**	**ug/Kg**	5	18-Apr-2014 07:07
Surr: Decachlorobiphenyl	*107*	*J*	*54-143*	*%REC*	*5*	*18-Apr-2014 07:07*
Surr: Tetrachloro-m-xylene	*112*	*J*	*55-137*	*%REC*	*5*	*18-Apr-2014 07:07*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

ANALYTICAL REPORT

Client: Seagull Environmental Technologies, Inc.
Project: Missouri Electric Works
Sample ID: WRSD-1-6"
Collection Date: 26-Mar-2014 13:39

WorkOrder:HS14031227
Lab ID:HS14031227-10
Matrix:Soil

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
PCBS BY SW8082A		**Method:SW8082**		Prep:SW3546/3665A / 10-Apr-2014		Analyst: JLJ
Aroclor 1016	ND		83	ug/Kg	5	18-Apr-2014 07:22
Aroclor 1221	ND		83	ug/Kg	5	18-Apr-2014 07:22
Aroclor 1232	ND		83	ug/Kg	5	18-Apr-2014 07:22
Aroclor 1242	ND		83	ug/Kg	5	18-Apr-2014 07:22
Aroclor 1248	ND		83	ug/Kg	5	18-Apr-2014 07:22
Aroclor 1254	ND		83	ug/Kg	5	18-Apr-2014 07:22
Aroclor 1260	**770**		**83**	**ug/Kg**	5	18-Apr-2014 07:22
Surr: Decachlorobiphenyl	*121*		*54-143*	*%REC*	*5*	*18-Apr-2014 07:22*
Surr: Tetrachloro-m-xylene	*116*	*J*	*55-137*	*%REC*	*5*	*18-Apr-2014 07:22*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

ANALYTICAL REPORT

Client: Seagull Environmental Technologies, Inc.
Project: Missouri Electric Works
Sample ID: WRSD-2-SS
Collection Date: 26-Mar-2014 13:49

WorkOrder:HS14031227
Lab ID:HS14031227-11
Matrix:Soil

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
PCBS BY SW8082A		**Method:SW8082**		Prep:SW3546/3665A / 10-Apr-2014		Analyst: JLJ
Aroclor 1016	ND		83	ug/Kg	5	18-Apr-2014 07:37
Aroclor 1221	ND		83	ug/Kg	5	18-Apr-2014 07:37
Aroclor 1232	ND		83	ug/Kg	5	18-Apr-2014 07:37
Aroclor 1242	ND		83	ug/Kg	5	18-Apr-2014 07:37
Aroclor 1248	ND		83	ug/Kg	5	18-Apr-2014 07:37
Aroclor 1254	ND		83	ug/Kg	5	18-Apr-2014 07:37
Aroclor 1260	**610**		**83**	**ug/Kg**	5	18-Apr-2014 07:37
Surr: Decachlorobiphenyl	*111*	*J*	*54-143*	*%REC*	*5*	*18-Apr-2014 07:37*
Surr: Tetrachloro-m-xylene	*122*		*55-137*	*%REC*	*5*	*18-Apr-2014 07:37*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

ANALYTICAL REPORT

Client: Seagull Environmental Technologies, Inc.
Project: Missouri Electric Works
Sample ID: WRSD-2-6"
Collection Date: 26-Mar-2014 13:54

WorkOrder:HS14031227
Lab ID:HS14031227-12
Matrix:Soil

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
PCBS BY SW8082A		**Method:SW8082**		Prep:SW3546/3665A / 10-Apr-2014		Analyst: JLJ
Aroclor 1016	ND		160	ug/Kg	10	18-Apr-2014 07:52
Aroclor 1221	ND		160	ug/Kg	10	18-Apr-2014 07:52
Aroclor 1232	ND		160	ug/Kg	10	18-Apr-2014 07:52
Aroclor 1242	ND		160	ug/Kg	10	18-Apr-2014 07:52
Aroclor 1248	ND		160	ug/Kg	10	18-Apr-2014 07:52
Aroclor 1254	ND		160	ug/Kg	10	18-Apr-2014 07:52
Aroclor 1260	**620**		**160**	**ug/Kg**	10	18-Apr-2014 07:52
Surr: Decachlorobiphenyl	*126*	*J*	*54-143*	*%REC*	*10*	*18-Apr-2014 07:52*
Surr: Tetrachloro-m-xylene	*112*	*J*	*55-137*	*%REC*	*10*	*18-Apr-2014 07:52*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

ANALYTICAL REPORT

Client: Seagull Environmental Technologies, Inc.
Project: Missouri Electric Works
Sample ID: UA-08-SS
Collection Date: 27-Mar-2014 12:06

WorkOrder:HS14031227
Lab ID:HS14031227-13
Matrix:Soil

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
PCBS BY SW8082A		**Method:SW8082**		Prep:SW3546/3665A / 10-Apr-2014		Analyst: JLJ
Aroclor 1016	ND		17	ug/Kg	1	14-Apr-2014 14:46
Aroclor 1221	ND		17	ug/Kg	1	14-Apr-2014 14:46
Aroclor 1232	ND		17	ug/Kg	1	14-Apr-2014 14:46
Aroclor 1242	ND		17	ug/Kg	1	14-Apr-2014 14:46
Aroclor 1248	ND		17	ug/Kg	1	14-Apr-2014 14:46
Aroclor 1254	ND		17	ug/Kg	1	14-Apr-2014 14:46
Aroclor 1260	**330**		**17**	**ug/Kg**	1	14-Apr-2014 14:46
Surr: Decachlorobiphenyl	*108*		*54-143*	*%REC*	*1*	*14-Apr-2014 14:46*
Surr: Tetrachloro-m-xylene	*89.8*		*55-137*	*%REC*	*1*	*14-Apr-2014 14:46*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

ANALYTICAL REPORT

Client: Seagull Environmental Technologies, Inc.
Project: Missouri Electric Works
Sample ID: UA-08-6"
Collection Date: 27-Mar-2014 12:08

WorkOrder:HS14031227
Lab ID:HS14031227-14
Matrix:Soil

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
PCBS BY SW8082A		**Method:SW8082**		Prep:SW3546/3665A / 10-Apr-2014		Analyst: JLJ
Aroclor 1016	ND		17	ug/Kg	1	14-Apr-2014 15:01
Aroclor 1221	ND		17	ug/Kg	1	14-Apr-2014 15:01
Aroclor 1232	ND		17	ug/Kg	1	14-Apr-2014 15:01
Aroclor 1242	ND		17	ug/Kg	1	14-Apr-2014 15:01
Aroclor 1248	ND		17	ug/Kg	1	14-Apr-2014 15:01
Aroclor 1254	ND		17	ug/Kg	1	14-Apr-2014 15:01
Aroclor 1260	**200**		**17**	**ug/Kg**	1	14-Apr-2014 15:01
Surr: Decachlorobiphenyl	*104*		*54-143*	*%REC*	*1*	*14-Apr-2014 15:01*
Surr: Tetrachloro-m-xylene	*84.7*		*55-137*	*%REC*	*1*	*14-Apr-2014 15:01*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

ANALYTICAL REPORT

Client: Seagull Environmental Technologies, Inc.
Project: Missouri Electric Works
Sample ID: UA-09-SS
Collection Date: 27-Mar-2014 12:10

WorkOrder:HS14031227
Lab ID:HS14031227-15
Matrix:Soil

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
PCBS BY SW8082A		**Method:SW8082**		Prep:SW3546/3665A / 10-Apr-2014		Analyst: JLJ
Aroclor 1016	ND		17	ug/Kg	1	14-Apr-2014 15:16
Aroclor 1221	ND		17	ug/Kg	1	14-Apr-2014 15:16
Aroclor 1232	ND		17	ug/Kg	1	14-Apr-2014 15:16
Aroclor 1242	ND		17	ug/Kg	1	14-Apr-2014 15:16
Aroclor 1248	ND		17	ug/Kg	1	14-Apr-2014 15:16
Aroclor 1254	ND		17	ug/Kg	1	14-Apr-2014 15:16
Aroclor 1260	**86**		**17**	**ug/Kg**	1	14-Apr-2014 15:16
Surr: Decachlorobiphenyl	*98.8*		*54-143*	*%REC*	*1*	*14-Apr-2014 15:16*
Surr: Tetrachloro-m-xylene	*75.2*		*55-137*	*%REC*	*1*	*14-Apr-2014 15:16*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

ANALYTICAL REPORT

Client: Seagull Environmental Technologies, Inc.
Project: Missouri Electric Works
Sample ID: UA-09-6"
Collection Date: 27-Mar-2014 12:12

WorkOrder:HS14031227
Lab ID:HS14031227-16
Matrix:Soil

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
PCBS BY SW8082A		**Method:SW8082**		Prep:SW3546/3665A / 10-Apr-2014		Analyst: JLJ
Aroclor 1016	ND		17	ug/Kg	1	14-Apr-2014 15:31
Aroclor 1221	ND		17	ug/Kg	1	14-Apr-2014 15:31
Aroclor 1232	ND		17	ug/Kg	1	14-Apr-2014 15:31
Aroclor 1242	ND		17	ug/Kg	1	14-Apr-2014 15:31
Aroclor 1248	ND		17	ug/Kg	1	14-Apr-2014 15:31
Aroclor 1254	ND		17	ug/Kg	1	14-Apr-2014 15:31
Aroclor 1260	ND		17	ug/Kg	1	14-Apr-2014 15:31
Surr: Decachlorobiphenyl	*115*		*54-143*	*%REC*	*1*	*14-Apr-2014 15:31*
Surr: Tetrachloro-m-xylene	*90.4*		*55-137*	*%REC*	*1*	*14-Apr-2014 15:31*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Seagull Environmental Technologies, Inc.
Project: Missouri Electric Works
WorkOrder: HS14031227

DATES REPORT

Sample ID	Client Samp ID	Collection Date	TCLP Date	Prep Date	Analysis Date	DF
Batch ID 80562	**Test Name :** PCBS BY SW8082A			**Matrix:** Soil		
HS14031227-01A	RA-01-SS	25 Mar 2014 08:38		10 Apr 2014 07:06	18 Apr 2014 06:07	5
HS14031227-02A	RA-01-6"	25 Mar 2014 08:40		10 Apr 2014 07:06	18 Apr 2014 06:22	5
HS14031227-03A	RA-02-SS	25 Mar 2014 08:45		10 Apr 2014 07:06	18 Apr 2014 06:37	5
HS14031227-04A	RA-02-6"	25 Mar 2014 08:47		10 Apr 2014 07:06	18 Apr 2014 06:52	2
HS14031227-05A	RA-03-SS	25 Mar 2014 08:52		10 Apr 2014 07:06	14 Apr 2014 11:14	1
HS14031227-06A	RA-03-6"	25 Mar 2014 08:54		10 Apr 2014 07:06	14 Apr 2014 11:29	1
HS14031227-07A	RA-04-SS	25 Mar 2014 09:00		10 Apr 2014 07:06	14 Apr 2014 13:15	1
HS14031227-08A	RA-04-6"	25 Mar 2014 09:02		10 Apr 2014 07:06	14 Apr 2014 13:30	1
HS14031227-09A	WRSD-1-SS	26 Mar 2014 13:26		10 Apr 2014 07:06	18 Apr 2014 07:07	5
HS14031227-10A	WRSD-1-6"	26 Mar 2014 13:39		10 Apr 2014 07:06	18 Apr 2014 07:22	5
HS14031227-11A	WRSD-2-SS	26 Mar 2014 13:49		10 Apr 2014 07:06	18 Apr 2014 07:37	5
HS14031227-12A	WRSD-2-6"	26 Mar 2014 13:54		10 Apr 2014 07:06	18 Apr 2014 07:52	10
HS14031227-13A	UA-08-SS	27 Mar 2014 12:06		10 Apr 2014 07:06	14 Apr 2014 14:46	1
HS14031227-14A	UA-08-6"	27 Mar 2014 12:08		10 Apr 2014 07:06	14 Apr 2014 15:01	1
HS14031227-15A	UA-09-SS	27 Mar 2014 12:10		10 Apr 2014 07:06	14 Apr 2014 15:16	1
HS14031227-16A	UA-09-6"	27 Mar 2014 12:12		10 Apr 2014 07:06	14 Apr 2014 15:31	1

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Seagull Environmental Technologies, Inc.
WorkOrder: HS14031227
Project: Missouri Electric Works

QC BATCH REPORT

Batch ID: 80562 **Instrument: ECD_7** **Method: SW8082**

MBLK Sample ID: **PBLKS1-140410** Units: **ug/Kg** Analysis Date: **14-Apr-2014 11:44**
Client ID: Run ID: **ECD_7_232185** SeqNo: **2799943** PrepDate: **10-Apr-2014** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	ND	17								
Aroclor 1221	ND	17								
Aroclor 1232	ND	17								
Aroclor 1242	ND	17								
Aroclor 1248	ND	17								
Aroclor 1254	ND	17								
Aroclor 1260	ND	17								
Surr: Decachlorobiphenyl	*8.404*	*1.6*	*6.667*	*0*	*126*	*54 - 143*				
Surr: Tetrachloro-m-xylene	*6.925*	*1.6*	*6.667*	*0*	*104*	*55 - 137*				

LCS Sample ID: **PLCSS1-140410** Units: **ug/Kg** Analysis Date: **14-Apr-2014 11:59**
Client ID: Run ID: **ECD_7_232185** SeqNo: **2799944** PrepDate: **10-Apr-2014** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	192.6	17	166.7	0	116	53 - 135				
Aroclor 1260	204.7	17	166.7	0	123	54 - 137				
Surr: Decachlorobiphenyl	*8.404*	*1.6*	*6.667*	*0*	*126*	*54 - 143*				
Surr: Tetrachloro-m-xylene	*6.983*	*1.6*	*6.667*	*0*	*105*	*55 - 137*				

MS Sample ID: **HS14031227-01AMS** Units: **ug/Kg** Analysis Date: **14-Apr-2014 09:58**
Client ID: **RA-01-SS** Run ID: **ECD_7_232185** SeqNo: **2799939** PrepDate: **10-Apr-2014** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	167.1	17	166	0	101	53 - 135				
Aroclor 1260	1049	17	166	934.3	68.9	54 - 137				EO
Surr: Decachlorobiphenyl	*7.567*	*1.6*	*6.64*	*0*	*114*	*54 - 143*				
Surr: Tetrachloro-m-xylene	*5.274*	*1.6*	*6.64*	*0*	*79.4*	*55 - 137*				

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Seagull Environmental Technologies, Inc.
WorkOrder: HS14031227
Project: Missouri Electric Works

QC BATCH REPORT

Batch ID: 80562 **Instrument: ECD_7** **Method: SW8082**

MSD Sample ID: **HS14031227-01AMSD** Units: **ug/Kg** Analysis Date: **14-Apr-2014 10:13**
Client ID: **RA-01-SS** Run ID: **ECD_7_232185** SeqNo: **2799940** PrepDate: **10-Apr-2014** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	171.5	17	166	0	103	53 - 135	167.1	2.62	30	
Aroclor 1260	1086	17	166	934.3	91.1	54 - 137	1049	3.45	30	EO
Surr: Decachlorobiphenyl	*7.58*	*1.6*	*6.64*	*0*	*114*	*54 - 143*	*7.567*	*0.171*	*30*	
Surr: Tetrachloro-m-xylene	*5.505*	*1.6*	*6.64*	*0*	*82.9*	*55 - 137*	*5.274*	*4.28*	*30*	

The following samples were anayzed in this batch:

HS14031227-01A	HS14031227-02A	HS14031227-03A	HS14031227-04A
HS14031227-05A	HS14031227-06A	HS14031227-07A	HS14031227-08A
HS14031227-09A	HS14031227-10A	HS14031227-11A	HS14031227-12A
HS14031227-13A	HS14031227-14A	HS14031227-15A	HS14031227-16A

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Qualifier	Description
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
M	Manually integrated, see raw data for justification
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL

Acronym	Description
DCS	Detectability Check Study
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitaion Limit
SD	Serial Dilution

RIGHT SOLUTIONS | RIGHT PARTNER

CERTIFICATIONS,ACCREDITATIONS & LICENSES

Agency	Number	Expire Date
Arkansas	AR - 2014	27-Mar-2015
California	06248CA 2013-2014	31-Jul-2014
Dept of Defense	L2231 Rev 3-20-2014	22-Dec-2015
Illinois	003180	09-May-2014
Kansas	E-10352 8/15/2013-2014	31-Jul-2014
Kentucky	95 Year- 2013	30-Apr-2014
Louisiana	03087 2013/2014	30-Jun-2014
North Carolina	624 - 2014	31-Dec-2014
Oklahoma	2013-024	31-Aug-2014
Texas	T104704231-13-12	30-Apr-2014

Sample Receipt Checklist

Client Name:	SEAGULL ENVIRONMENTAL TECHNOLOGIES, INC.	Date/Time Received:	**29-Mar-2014 10:15**
Work Order:	HS14031227	Received by:	**BA11**

Checklist completed by: *Paresh M. Giga* (eSignature) 31-Mar-2014 (Date)

Reviewed by: *Bernadette A. Fini* (eSignature) 31-Mar-2014 (Date)

Matrices: **Soil**

Carrier name: **FedEx**

	Yes	No	Not Present
Shipping container/cooler in good condition?	☑	☐	☐
Custody seals intact on shipping container/cooler?	☑	☐	☐
Custody seals intact on sample bottles?	☐	☐	☑
Chain of custody present?	☑	☐	
Chain of custody signed when relinquished and received?	☑	☐	
Chain of custody agrees with sample labels?	☑	☐	
Samples in proper container/bottle?	☑	☐	
Sample containers intact?	☑	☐	
Sufficient sample volume for indicated test?	☑	☐	
All samples received within holding time?	☑	☐	
Container/Temp Blank temperature in compliance?	☑	☐	

Temperature(s)/Thermometer(s): 3.9c/3.9c,2.5c/2.5c,3.5c/3.5c,4.5c/4.5c,5.6c/5.6c,2.8c/2.8c C/U IR3

Cooler(s)/Kit(s): 4375,4143,3156,5649,5922,RED-TA

Date/Time sample(s) sent to storage:

	Yes	No	No VOA vials submitted / N/A
Water - VOA vials have zero headspace?	☐	☐	No VOA vials submitted ☑
Water - pH acceptable upon receipt?	☐	☐	N/A ☑
pH adjusted?	☐	☐	N/A ☑

pH adjusted by:

Login Notes:

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

Corrective Action:

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Environmental

Cincinnati, OH +1 513 733 5336 | Fort Collins, CO +1 970 490 1511
Everett, WA +1 425 356 2600 | Holland, MI +1 616 399 6070

Chain of Custody Fo

Page 1 of 2

COC ID: 10261

14031227

SEAGULL ENVIRONMENTAL TECHNOLOGIES, INC.: Seagull Environmental Technologies, Inc.

eston, WV 3168

5280

Project: Missouri Electric Works

ALS Project Manager:

Customer Information		Project Information			
Purchase Order		Project Name	Missouri Electric Works	A	PCB 8082
Work Order		Project Number		B	VOC TCL (8260)
Company Name	Seagull Environmental Technologies, Inc.	Bill To Company	Seagull Environmental Technologies, I	C	
Send Report To	Jeff Pritchard	Invoice Attn	Jeff Pritchard	D	
Address	415 Oak Street	Address	415 Oak Street	E	
				F	
City/State/Zip	Kansas City, MO 64106	City/State/Zip	Kansas City, MO 64106	G	
Phone	(816) 412-1937	Phone	(816) 412-1937	H	
Fax		Fax		I	
e-Mail Address	jpritchard@seagullenvirotech.com	e-Mail Address		J	

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	RA-01-SS	03/25/14	0838	Soil	None	1	X										
2	RA-01-6"	03/25/14	0840			1	X										
3	RA-02-SS	03/25/14	0845			1	X										
4	RA-02-6"	03/25/14	0847			1	X										
5	RA-03-SS	03/25/14	0852			1	X										
6	RA-03-6"	03/25/14	0854			1	X										
7	RA-04-SS	03/25/14	0900			1	X										
8	RA-04-6"	03/25/14	0902			1	X										
9	WRSD-1-SS	03/26/14	1326			1	X										
10	WRSD-1-6"	03/26/14	~~1354~~ 1339			1	X										

Sampler(s) Please Print & Sign: Greg R. Dillon / Cosmo Cenacemi

Shipment Method:

Required Turnaround Time: (Check Box) ☑ Std 10 WK Days ☐ 5 WK Days ☐ Other ☐ 2 WK Days ☐ 24 Hour

Results Due Date:

Relinquished by:	Date:	Time:	Received by:
[signature]	03/28/14	1500	
Relinquished by:	Date: 3/29/14	Time: 10:15	Received by (Laboratory): [signature]
Logged by (Laboratory):	Date:	Time:	Checked by (Laboratory):

Notes:

Cooler ID	Cooler Temp.

QC Package: (Check One Box Below)
- ☑ Level II Std QC
- ☐ Level III Std QC/Raw Data
- ☐ Level IV SW846/CLP
- ☐ Other / EDD
- ☐ TRRP CheckList
- ☐ TRRP Level IV

Preservative Key: 1-HCl 2-HNO_3 3-H_2SO_4 4-NaOH 5-$Na_2S_2O_3$ 6-$NaHSO_4$ 7-Other 8-4°C 9-5035

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.
2. Unless otherwise agreed in a formal contract, services provided by ALS Environmental are expressly limited to the terms and conditions stated on the reverse.
3. The Chain of Custody is a legal document. All information must be completed accurately.

Copyright 2011 by ALS Environmental.

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Environmental

Cincinnati, OH +1 513 733 5336 | Fort Collins, CO +1 970 490 1511 | Houston, TX +1 281 530 5656 | Spring City, PA +1 610 948 4903 | South Charleston, WV +1 304 356 3168
Everett, WA +1 425 356 2600 | Holland, MI +1 616 399 6070 | Middletown, PA +1 717 944 5541 | Salt Lake City, UT +1 801 266 7700 | York, PA +1 717 505 5280

Chain of Custody Form

Page 2 of 2

COC ID: 102620

ALS Project Manager: | ALS Work Order #: 14031227.

Customer Information		Project Information		Parameter/Method Request for Analysis	
Purchase Order		Project Name	Missouri Electric Works	A	PCB 8082
Work Order		Project Number		B	VOC TCL (8260)
Company Name	Seagull Environmental Technologies, Inc.	Bill To Company	Seagull Environmental Technologies, I	C	
Send Report To	Jeff Pritchard	Invoice Attn	Jeff Pritchard	D	
Address	415 Oak Street	Address	415 Oak Street	E	
				F	
City/State/Zip	Kansas City, MO 64106	City/State/Zip	Kansas City, MO 64106	G	
Phone	(816) 412-1937	Phone	(816) 412-1937	H	
Fax		Fax		I	
e-Mail Address	jpritchard@seagullenvirotech.com	e-Mail Address		J	

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	WRSD-2-SS	03/26/14	1349	Soil	None	1	X										
2	WRSD-2-6"	03/26/14	1354	Soil	None	1	X										
3	UA-08-SS	03/27/14	1206	Soil	None	1	X										
4	UA-08-6"	03/27/14	1208	Soil	None	1	X										
5	UA-09-SS	03/27/14	1210	Soil	None	1	X										
6	UA-09-6"	03/27/14	1212	Soil	None	1	X										
7																	
8																	
9																	
10																	

03/28/14

Sampler(s) Please Print & Sign: Greg R Dilan / Cosmo Cancar

Shipment Method:

Required Turnaround Time: (Check Box) ☑ Std 10 WK Days ☐ 5 WK Days ☐ Other ☐ 2 WK Days ☐ 24 Hour

Results Due Date:

Relinquished by:	Date:	Time:	Received by:
[signature]	03/28/14	1500	
Relinquished by:	Date: 3/29/14	Time: 10:15	Received by (Laboratory): [signature]
Logged by (Laboratory):	Date:	Time:	Checked by (Laboratory):

Notes:

Cooler ID	Cooler Temp.

QC Package: (Check One Box Below)
☑ Level II Std QC
☐ Level III Std QC/Raw Data
☐ Level IV SW846/CLP
☐ Other / EDD
☐ TRRP CheckList
☐ TRRP Level IV

Preservative Key: 1-HCl 2-HNO_3 3-H_2SO_4 4-NaOH 5-$Na_2S_2O_3$ 6-$NaHSO_4$ 7-Other 8-4°C 9-5035

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.
2. Unless otherwise agreed in a formal contract, services provided by ALS Environmental are expressly limited to the terms and conditions stated on the reverse.
3. The Chain of Custody is a legal document. All information must be completed accurately.

Copyright 2011 by ALS Environmental.

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Environmental
10450 Stancliff Rd.,
Houston, Texas 770
Tel. +1 281
Fax. +1 281 530 586

CUSTODY SEAL
Date: 03/28/14 Time: 1500
Name: Greg Dillon
Company: Seagull
Seal Broken By:
Date:

Do Not Lift Using This Tag
FedEx 2 of 6
MPS# 0681 7949 3504 0234
Mstr# 8042 5199 0886
0215
SATURDAY 9:30A
FIRST OVERNIGHT
XO SGRA
77099
TX-US IAH

CUSTODY SEAL
28/14 Time: 1500
g Dillon
Seagull
Seal Broken By:
Date: 3-31-14

ALS Environmental
10450 Stancliff Rd., Suite 210
Houston, Texas 77099
Tel. +1 281 530 5656
Fax. +1 281 530 5887
Date: 03/
Name: Gr
Company:

Do Not Lift Using This Tag
Ex 5 of 6
7949 3504 0267
8042 5199 0886
0215
SATURDAY 9:30A
FIRST OVERNIGHT
) SGRA
77099
TX-US IAH

Do Not Lift Using This Tag
FedEx 6 of 6
MPS# 0681 7949 3504 0278
Mstr# 8042 5199 0886
0215
SATURDAY 9:30A
FIRST OVERNIGHT
XO SGRA
77099
TX-US IAH

#545836 03/28 522G1/CC4F/F220

RIGHT SOLUTIONS | RIGHT PARTNER

CUSTODY SEAL
3/28/14 Time: 1500
Greg Dillon
Seagull
Seal Broken By:
Date: 3-31-14

ALS Environmental
10450 Stancliff Rd., Suite 210
Houston, Texas 77099
Tel. +1 281 530 5656
Fax. +1 281 530 5887
Date: 6
Name:
Company:

CUSTODY SEAL
3/28/14 Time: 1500
Greg Dillon
Seagull
Seal Broken By:
Date: 3-31-14

ALS Environmental
10450 Stancliff Rd., Suite 210
Houston, Texas 77099
Tel. +1 281 530 5656
Fax. +1 281 530 5887
Date:
Name:
Company

FedEx 1 of 6
TRK# 8042 5199 0886
MASTER ##
SATURDAY 9:30A
FIRST OVERNIGHT
XO SGRA
77099
TX-US IAH

Do Not Lift Using This Tag
FedEx 4 of 6
MPS# 7949 3504 0256
Mstr# 8042 5199 0886
SATURDAY 9:30A
FIRST OVERNIGHT
XO SGRA
77099
TX-US IAH

RIGHT SOLUTIONS | RIGHT PARTNER

21-Apr-2014

Jeff Pritchard
Seagull Environmental Technologies, Inc.
415 Oak Street
Kansas City, MO 64106

Tel: (816) 412-1937
Fax:

Re: Missouri Electric Works Work Order: **HS14031228**

Dear Jeff,

ALS Houston received 34 samples on 29-Mar-2014 10:15 AM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

Electronically approved by: Dayna.Fisher

Bernadette A. Fini
Project Manager

Certificate No: T104704231-13-12

ALS Group USA, Corp.

Date: 21-Apr-14

Client: Seagull Environmental Technologies, Inc.
Project: Missouri Electric Works
Work Order: **HS14031228**

Work Order Sample Summary

Lab Samp ID	Client Sample ID	Matrix	Tag Number	Collection Date	Date Received	Hold
HS14031228-01	UA-01-SS	Soil		3/26/2014 18:06	3/29/2014 10:15	☐
HS14031228-02	UA-01-6"	Soil		3/26/2014 18:08	3/29/2014 10:15	☐
HS14031228-03	UA-02-SS	Soil		3/26/2014 18:16	3/29/2014 10:15	☐
HS14031228-04	UA-02-6"	Soil		3/26/2014 18:18	3/29/2014 10:15	☐
HS14031228-05	UA-03-SS	Soil		3/26/2014 18:20	3/29/2014 10:15	☐
HS14031228-06	UA-03-6"	Soil		3/26/2014 18:22	3/29/2014 10:15	☐
HS14031228-07	UA-04-SS	Soil		3/27/2014 09:46	3/29/2014 10:15	☐
HS14031228-08	UA-04-6"	Soil		3/27/2014 09:48	3/29/2014 10:15	☐
HS14031228-09	UA-05-SS	Soil		3/27/2014 09:52	3/29/2014 10:15	☐
HS14031228-10	UA-05-6"	Soil		3/27/2014 09:54	3/29/2014 10:15	☐
HS14031228-11	UA-06-SS	Soil		3/27/2014 10:02	3/29/2014 10:15	☐
HS14031228-12	UA-06-6"	Soil		3/27/2014 10:04	3/29/2014 10:15	☐
HS14031228-13	UA-07-SS	Soil		3/27/2014 10:10	3/29/2014 10:15	☐
HS14031228-14	UA-07-6"	Soil		3/27/2014 10:12	3/29/2014 10:15	☐
HS14031228-15	Equipment Rinsate	Water		3/27/2014 11:15	3/29/2014 10:15	☐
HS14031228-16	Equipment Rinsate - Filtered	Water		3/27/2014 11:15	3/29/2014 10:15	☐
HS14031228-17	Field Blank	Water		3/27/2014 13:50	3/29/2014 10:15	☐
HS14031228-18	Trip Blank	Water		3/27/2014 14:00	3/29/2014 10:15	☐
HS14031228-19	MW-1	Water		3/27/2014 13:55	3/29/2014 10:15	☐
HS14031228-20	MW-1 Filtered	Water		3/27/2014 13:55	3/29/2014 10:15	☐
HS14031228-21	MW-12	Water		3/27/2014 12:20	3/29/2014 10:15	☐
HS14031228-22	MW-12 Filtered	Water		3/27/2014 12:20	3/29/2014 10:15	☐
HS14031228-23	MW-11	Water		3/27/2014 10:00	3/29/2014 10:15	☐
HS14031228-24	MW-11 Filtered	Water		3/27/2014 10:00	3/29/2014 10:15	☐
HS14031228-25	MW-5	Water		3/26/2014 18:25	3/29/2014 10:15	☐
HS14031228-26	MW-5 Filtered	Water		3/26/2014 18:25	3/29/2014 10:15	☐
HS14031228-27	MW-3	Water		3/26/2014 16:55	3/29/2014 10:15	☐
HS14031228-28	MW-3 Filtered	Water		3/26/2014 16:55	3/29/2014 10:15	☐
HS14031228-29	MW-16A	Water		3/26/2014 11:41	3/29/2014 10:15	☐
HS14031228-30	MW-16A Filtered	Water		3/26/2014 11:41	3/29/2014 10:15	☐
HS14031228-31	MW-16B	Water		3/26/2014 14:15	3/29/2014 10:15	☐
HS14031228-32	MW-16B Filtered	Water		3/26/2014 14:15	3/29/2014 10:15	☐
HS14031228-33	MW-16C	Water		3/26/2014 10:17	3/29/2014 10:15	☐
HS14031228-34	MW-16C Filtered	Water		3/26/2014 10:17	3/29/2014 10:15	☐

Client: Seagull Environmental Technologies, Inc.
Project: Missouri Electric Works
Work Order: HS14031228

Case Narrative

PCB Method 8082, Various samples analyzed at a dilution due to the level of Aroclor detected. Reporting limits were adjusted accordingly.

Batch 80563, PCB Method 8082, Sample HS14031228-10: Surrogate recoveries above quality control due to dilution.

Batch R163848, Volatile Organics Method 8260, Sample 14030969-02: MS/MSD is for unrelated sample.

ALS Group USA, Corp.

Date: *21-Apr-14*

Client: Seagull Environmental Technologies, Inc.
Project: Missouri Electric Works
Work Order: HS14031228
Sample ID: UA-01-SS
Lab ID: HS14031228-01
Collection Date: 3/26/2014 06:06 PM
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS BY SW8082A			**SW8082**		Prep Date: **4/10/2014**	Analyst: **JLJ**
Aroclor 1016	ND		33	µg/Kg	2	4/18/2014 10:33 AM
Aroclor 1221	ND		33	µg/Kg	2	4/18/2014 10:33 AM
Aroclor 1232	ND		33	µg/Kg	2	4/18/2014 10:33 AM
Aroclor 1242	ND		33	µg/Kg	2	4/18/2014 10:33 AM
Aroclor 1248	ND		33	µg/Kg	2	4/18/2014 10:33 AM
Aroclor 1254	ND		33	µg/Kg	2	4/18/2014 10:33 AM
Aroclor 1260	**380**		**33**	**µg/Kg**	2	4/18/2014 10:33 AM
Surr: Decachlorobiphenyl	*112*		*54-143*	*%REC*	2	4/18/2014 10:33 AM
Surr: Tetrachloro-m-xylene	*104*		*55-137*	*%REC*	2	4/18/2014 10:33 AM

Note:

ALS Group USA, Corp.

Date: *21-Apr-14*

Client: Seagull Environmental Technologies, Inc.
Project: Missouri Electric Works
Work Order: HS14031228
Sample ID: UA-01-6"
Lab ID: HS14031228-02
Collection Date: 3/26/2014 06:08 PM
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS BY SW8082A			**SW8082**		Prep Date: **4/10/2014**	Analyst: **JLJ**
Aroclor 1016	ND		83	µg/Kg	5	4/18/2014 10:48 AM
Aroclor 1221	ND		83	µg/Kg	5	4/18/2014 10:48 AM
Aroclor 1232	ND		83	µg/Kg	5	4/18/2014 10:48 AM
Aroclor 1242	ND		83	µg/Kg	5	4/18/2014 10:48 AM
Aroclor 1248	ND		83	µg/Kg	5	4/18/2014 10:48 AM
Aroclor 1254	ND		83	µg/Kg	5	4/18/2014 10:48 AM
Aroclor 1260	**560**		**83**	**µg/Kg**	5	4/18/2014 10:48 AM
Surr: Decachlorobiphenyl	*120*		*54-143*	*%REC*	5	4/18/2014 10:48 AM
Surr: Tetrachloro-m-xylene	*112*		*55-137*	*%REC*	5	4/18/2014 10:48 AM

Note:

ALS Group USA, Corp.

Date: *21-Apr-14*

Client: Seagull Environmental Technologies, Inc.
Project: Missouri Electric Works
Work Order: HS14031228
Sample ID: UA-02-SS
Lab ID: HS14031228-03
Collection Date: 3/26/2014 06:16 PM
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS BY SW8082A			**SW8082**		Prep Date: **4/10/2014**	Analyst: **JLJ**
Aroclor 1016	ND		160	µg/Kg	10	4/18/2014 11:03 AM
Aroclor 1221	ND		160	µg/Kg	10	4/18/2014 11:03 AM
Aroclor 1232	ND		160	µg/Kg	10	4/18/2014 11:03 AM
Aroclor 1242	ND		160	µg/Kg	10	4/18/2014 11:03 AM
Aroclor 1248	ND		160	µg/Kg	10	4/18/2014 11:03 AM
Aroclor 1254	ND		160	µg/Kg	10	4/18/2014 11:03 AM
Aroclor 1260	**2,200**		**160**	**µg/Kg**	10	4/18/2014 11:03 AM
Surr: Decachlorobiphenyl	*126*		*54-143*	*%REC*	10	4/18/2014 11:03 AM
Surr: Tetrachloro-m-xylene	*104*		*55-137*	*%REC*	10	4/18/2014 11:03 AM

Note:

ALS Group USA, Corp.

Date: *21-Apr-14*

Client: Seagull Environmental Technologies, Inc.
Project: Missouri Electric Works
Work Order: HS14031228
Sample ID: UA-02-6"
Lab ID: HS14031228-04
Collection Date: 3/26/2014 06:18 PM
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS BY SW8082A			**SW8082**		Prep Date: **4/10/2014**	Analyst: **JLJ**
Aroclor 1016	ND		330	µg/Kg	20	4/18/2014 11:18 AM
Aroclor 1221	ND		330	µg/Kg	20	4/18/2014 11:18 AM
Aroclor 1232	ND		330	µg/Kg	20	4/18/2014 11:18 AM
Aroclor 1242	ND		330	µg/Kg	20	4/18/2014 11:18 AM
Aroclor 1248	ND		330	µg/Kg	20	4/18/2014 11:18 AM
Aroclor 1254	ND		330	µg/Kg	20	4/18/2014 11:18 AM
Aroclor 1260	**3,900**		**330**	**µg/Kg**	20	4/18/2014 11:18 AM
Surr: Decachlorobiphenyl	*137*		*54-143*	*%REC*	20	4/18/2014 11:18 AM
Surr: Tetrachloro-m-xylene	*124*		*55-137*	*%REC*	20	4/18/2014 11:18 AM

Note:

ALS Group USA, Corp.

Date: *21-Apr-14*

Client: Seagull Environmental Technologies, Inc.
Project: Missouri Electric Works
Work Order: HS14031228
Sample ID: UA-03-SS
Lab ID: HS14031228-05
Collection Date: 3/26/2014 06:20 PM
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS BY SW8082A			**SW8082**		Prep Date: **4/10/2014**	Analyst: **JLJ**
Aroclor 1016	ND		16	µg/Kg	1	4/14/2014 11:49 PM
Aroclor 1221	ND		16	µg/Kg	1	4/14/2014 11:49 PM
Aroclor 1232	ND		16	µg/Kg	1	4/14/2014 11:49 PM
Aroclor 1242	ND		16	µg/Kg	1	4/14/2014 11:49 PM
Aroclor 1248	ND		16	µg/Kg	1	4/14/2014 11:49 PM
Aroclor 1254	ND		16	µg/Kg	1	4/14/2014 11:49 PM
Aroclor 1260	**240**		**16**	**µg/Kg**	1	4/14/2014 11:49 PM
Surr: Decachlorobiphenyl	*107*		*54-143*	*%REC*	1	4/14/2014 11:49 PM
Surr: Tetrachloro-m-xylene	*82.6*		*55-137*	*%REC*	1	4/14/2014 11:49 PM

Note:

ALS Group USA, Corp.

Date: *21-Apr-14*

Client: Seagull Environmental Technologies, Inc.
Project: Missouri Electric Works
Work Order: HS14031228
Sample ID: UA-03-6"
Lab ID: HS14031228-06
Collection Date: 3/26/2014 06:22 PM
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS BY SW8082A			**SW8082**		Prep Date: **4/10/2014**	Analyst: **JLJ**
Aroclor 1016	ND		17	µg/Kg	1	4/15/2014 03:49 AM
Aroclor 1221	ND		17	µg/Kg	1	4/15/2014 03:49 AM
Aroclor 1232	ND		17	µg/Kg	1	4/15/2014 03:49 AM
Aroclor 1242	ND		17	µg/Kg	1	4/15/2014 03:49 AM
Aroclor 1248	ND		17	µg/Kg	1	4/15/2014 03:49 AM
Aroclor 1254	ND		17	µg/Kg	1	4/15/2014 03:49 AM
Aroclor 1260	**53**		**17**	**µg/Kg**	1	4/15/2014 03:49 AM
Surr: Decachlorobiphenyl	*109*		*54-143*	*%REC*	1	4/15/2014 03:49 AM
Surr: Tetrachloro-m-xylene	*78.1*		*55-137*	*%REC*	1	4/15/2014 03:49 AM

Note:

ALS Group USA, Corp.

Date: *21-Apr-14*

Client: Seagull Environmental Technologies, Inc.
Project: Missouri Electric Works
Work Order: HS14031228
Sample ID: UA-04-SS
Lab ID: HS14031228-07
Collection Date: 3/27/2014 09:46 AM
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS BY SW8082A			**SW8082**		Prep Date: **4/10/2014**	Analyst: **JLJ**
Aroclor 1016	ND		83	µg/Kg	5	4/18/2014 09:07 PM
Aroclor 1221	ND		83	µg/Kg	5	4/18/2014 09:07 PM
Aroclor 1232	ND		83	µg/Kg	5	4/18/2014 09:07 PM
Aroclor 1242	ND		83	µg/Kg	5	4/18/2014 09:07 PM
Aroclor 1248	ND		83	µg/Kg	5	4/18/2014 09:07 PM
Aroclor 1254	ND		83	µg/Kg	5	4/18/2014 09:07 PM
Aroclor 1260	**660**		**83**	**µg/Kg**	5	4/18/2014 09:07 PM
Surr: Decachlorobiphenyl	*83.0*		*54-143*	*%REC*	5	4/18/2014 09:07 PM
Surr: Tetrachloro-m-xylene	*86.5*		*55-137*	*%REC*	5	4/18/2014 09:07 PM

Note:

ALS Group USA, Corp.

Date: *21-Apr-14*

Client: Seagull Environmental Technologies, Inc.
Project: Missouri Electric Works
Work Order: HS14031228
Sample ID: UA-04-6"
Lab ID: HS14031228-08
Collection Date: 3/27/2014 09:48 AM
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS BY SW8082A			**SW8082**		Prep Date: **4/10/2014**	Analyst: **JLJ**
Aroclor 1016	ND		33	µg/Kg	2	4/18/2014 09:22 PM
Aroclor 1221	ND		33	µg/Kg	2	4/18/2014 09:22 PM
Aroclor 1232	ND		33	µg/Kg	2	4/18/2014 09:22 PM
Aroclor 1242	ND		33	µg/Kg	2	4/18/2014 09:22 PM
Aroclor 1248	ND		33	µg/Kg	2	4/18/2014 09:22 PM
Aroclor 1254	ND		33	µg/Kg	2	4/18/2014 09:22 PM
Aroclor 1260	**410**		**33**	**µg/Kg**	2	4/18/2014 09:22 PM
Surr: Decachlorobiphenyl	*104*		*54-143*	*%REC*	2	4/18/2014 09:22 PM
Surr: Tetrachloro-m-xylene	*103*		*55-137*	*%REC*	2	4/18/2014 09:22 PM

Note:

ALS Group USA, Corp.

Date: *21-Apr-14*

Client: Seagull Environmental Technologies, Inc.
Project: Missouri Electric Works
Work Order: HS14031228
Sample ID: UA-05-SS
Lab ID: HS14031228-09
Collection Date: 3/27/2014 09:52 AM
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS BY SW8082A			**SW8082**		Prep Date: **4/10/2014**	Analyst: **JLJ**
Aroclor 1016	ND		830	µg/Kg	50	4/18/2014 09:37 PM
Aroclor 1221	ND		830	µg/Kg	50	4/18/2014 09:37 PM
Aroclor 1232	ND		830	µg/Kg	50	4/18/2014 09:37 PM
Aroclor 1242	ND		830	µg/Kg	50	4/18/2014 09:37 PM
Aroclor 1248	ND		830	µg/Kg	50	4/18/2014 09:37 PM
Aroclor 1254	ND		830	µg/Kg	50	4/18/2014 09:37 PM
Aroclor 1260	**10,000**		**830**	**µg/Kg**	50	4/18/2014 09:37 PM
Surr: Decachlorobiphenyl	*123*		*54-143*	*%REC*	50	4/18/2014 09:37 PM
Surr: Tetrachloro-m-xylene	*137*		*55-137*	*%REC*	50	4/18/2014 09:37 PM

Note:

ALS Group USA, Corp.

Date: *21-Apr-14*

Client: Seagull Environmental Technologies, Inc.
Project: Missouri Electric Works
Work Order: HS14031228
Sample ID: UA-05-6"
Lab ID: HS14031228-10
Collection Date: 3/27/2014 09:54 AM
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS BY SW8082A			**SW8082**		Prep Date: **4/10/2014**	Analyst: **JLJ**
Aroclor 1016	ND		3,300	µg/Kg	200	4/18/2014 09:52 PM
Aroclor 1221	ND		3,300	µg/Kg	200	4/18/2014 09:52 PM
Aroclor 1232	ND		3,300	µg/Kg	200	4/18/2014 09:52 PM
Aroclor 1242	ND		3,300	µg/Kg	200	4/18/2014 09:52 PM
Aroclor 1248	ND		3,300	µg/Kg	200	4/18/2014 09:52 PM
Aroclor 1254	ND		3,300	µg/Kg	200	4/18/2014 09:52 PM
Aroclor 1260	**42,000**		**3,300**	**µg/Kg**	200	4/18/2014 09:52 PM
Surr: Decachlorobiphenyl	*306*	S	*54-143*	*%REC*	200	4/18/2014 09:52 PM
Surr: Tetrachloro-m-xylene	*254*	S	*55-137*	*%REC*	200	4/18/2014 09:52 PM

Note:

ALS Group USA, Corp.

Date: *21-Apr-14*

Client: Seagull Environmental Technologies, Inc.
Project: Missouri Electric Works
Work Order: HS14031228
Sample ID: UA-06-SS
Lab ID: HS14031228-11
Collection Date: 3/27/2014 10:02 AM
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS BY SW8082A			**SW8082**		Prep Date: **4/10/2014**	Analyst: **JLJ**
Aroclor 1016	ND		33	µg/Kg	2	4/18/2014 10:07 PM
Aroclor 1221	ND		33	µg/Kg	2	4/18/2014 10:07 PM
Aroclor 1232	ND		33	µg/Kg	2	4/18/2014 10:07 PM
Aroclor 1242	ND		33	µg/Kg	2	4/18/2014 10:07 PM
Aroclor 1248	ND		33	µg/Kg	2	4/18/2014 10:07 PM
Aroclor 1254	ND		33	µg/Kg	2	4/18/2014 10:07 PM
Aroclor 1260	**370**		**33**	**µg/Kg**	2	4/18/2014 10:07 PM
Surr: Decachlorobiphenyl	*69.0*		*54-143*	*%REC*	2	4/18/2014 10:07 PM
Surr: Tetrachloro-m-xylene	*67.1*		*55-137*	*%REC*	2	4/18/2014 10:07 PM

Note:

ALS Group USA, Corp.

Date: *21-Apr-14*

Client: Seagull Environmental Technologies, Inc.
Project: Missouri Electric Works
Work Order: HS14031228
Sample ID: UA-06-6"
Lab ID: HS14031228-12
Collection Date: 3/27/2014 10:04 AM
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS BY SW8082A			**SW8082**		Prep Date: **4/10/2014**	Analyst: **JLJ**
Aroclor 1016	ND		17	µg/Kg	1	4/15/2014 05:19 AM
Aroclor 1221	ND		17	µg/Kg	1	4/15/2014 05:19 AM
Aroclor 1232	ND		17	µg/Kg	1	4/15/2014 05:19 AM
Aroclor 1242	ND		17	µg/Kg	1	4/15/2014 05:19 AM
Aroclor 1248	ND		17	µg/Kg	1	4/15/2014 05:19 AM
Aroclor 1254	ND		17	µg/Kg	1	4/15/2014 05:19 AM
Aroclor 1260	**73**		**17**	**µg/Kg**	1	4/15/2014 05:19 AM
Surr: Decachlorobiphenyl	*107*		*54-143*	*%REC*	1	4/15/2014 05:19 AM
Surr: Tetrachloro-m-xylene	*77.1*		*55-137*	*%REC*	1	4/15/2014 05:19 AM

Note:

ALS Group USA, Corp.

Date: *21-Apr-14*

Client: Seagull Environmental Technologies, Inc.
Project: Missouri Electric Works
Work Order: HS14031228
Sample ID: UA-07-SS
Lab ID: HS14031228-13
Collection Date: 3/27/2014 10:10 AM
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS BY SW8082A			**SW8082**		Prep Date: **4/10/2014**	Analyst: **JLJ**
Aroclor 1016	ND		83	µg/Kg	5	4/18/2014 10:37 PM
Aroclor 1221	ND		83	µg/Kg	5	4/18/2014 10:37 PM
Aroclor 1232	ND		83	µg/Kg	5	4/18/2014 10:37 PM
Aroclor 1242	ND		83	µg/Kg	5	4/18/2014 10:37 PM
Aroclor 1248	ND		83	µg/Kg	5	4/18/2014 10:37 PM
Aroclor 1254	ND		83	µg/Kg	5	4/18/2014 10:37 PM
Aroclor 1260	**930**		**83**	**µg/Kg**	5	4/18/2014 10:37 PM
Surr: Decachlorobiphenyl	*90.6*		*54-143*	*%REC*	5	4/18/2014 10:37 PM
Surr: Tetrachloro-m-xylene	*92.1*		*55-137*	*%REC*	5	4/18/2014 10:37 PM

Note:

ALS Group USA, Corp.

Date: *21-Apr-14*

Client: Seagull Environmental Technologies, Inc.
Project: Missouri Electric Works
Work Order: HS14031228
Sample ID: UA-07-6"
Lab ID: HS14031228-14
Collection Date: 3/27/2014 10:12 AM
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS BY SW8082A			**SW8082**		Prep Date: **4/10/2014**	Analyst: **JLJ**
Aroclor 1016	ND		33	µg/Kg	2	4/18/2014 10:52 PM
Aroclor 1221	ND		33	µg/Kg	2	4/18/2014 10:52 PM
Aroclor 1232	ND		33	µg/Kg	2	4/18/2014 10:52 PM
Aroclor 1242	ND		33	µg/Kg	2	4/18/2014 10:52 PM
Aroclor 1248	ND		33	µg/Kg	2	4/18/2014 10:52 PM
Aroclor 1254	ND		33	µg/Kg	2	4/18/2014 10:52 PM
Aroclor 1260	**250**		**33**	**µg/Kg**	2	4/18/2014 10:52 PM
Surr: Decachlorobiphenyl	*103*		*54-143*	*%REC*	2	4/18/2014 10:52 PM
Surr: Tetrachloro-m-xylene	*95.0*		*55-137*	*%REC*	2	4/18/2014 10:52 PM

Note:

ALS Group USA, Corp.

Date: *21-Apr-14*

Client: Seagull Environmental Technologies, Inc.
Project: Missouri Electric Works
Work Order: HS14031228
Sample ID: Equipment Rinsate
Lab ID: HS14031228-15
Collection Date: 3/27/2014 11:15 AM
Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS BY SW8082A			**SW8082**		Prep Date: **4/3/2014**	Analyst: **SE**
Aroclor 1016	ND		0.500	µg/L	1	4/3/2014 09:39 PM
Aroclor 1221	ND		0.500	µg/L	1	4/3/2014 09:39 PM
Aroclor 1232	ND		0.500	µg/L	1	4/3/2014 09:39 PM
Aroclor 1242	ND		0.500	µg/L	1	4/3/2014 09:39 PM
Aroclor 1248	ND		0.500	µg/L	1	4/3/2014 09:39 PM
Aroclor 1254	ND		0.500	µg/L	1	4/3/2014 09:39 PM
Aroclor 1260	ND		0.500	µg/L	1	4/3/2014 09:39 PM
Surr: Decachlorobiphenyl	*104*		*54-140*	*%REC*	1	4/3/2014 09:39 PM
Surr: Tetrachloro-m-xylene	*96.5*		*53-137*	*%REC*	1	4/3/2014 09:39 PM
TCL VOLATILES - SW8260C			**SW8260**			Analyst: **AKP**
1,1,1-Trichloroethane	ND		1.0	µg/L	1	4/1/2014 12:01 PM
1,1,2,2-Tetrachloroethane	ND		1.0	µg/L	1	4/1/2014 12:01 PM
1,1,2-Trichlor-1,2,2-trifluoroethane	ND		1.0	µg/L	1	4/1/2014 12:01 PM
1,1,2-Trichloroethane	ND		1.0	µg/L	1	4/1/2014 12:01 PM
1,1-Dichloroethane	ND		1.0	µg/L	1	4/1/2014 12:01 PM
1,1-Dichloroethene	ND		1.0	µg/L	1	4/1/2014 12:01 PM
1,2,4-Trichlorobenzene	ND		1.0	µg/L	1	4/1/2014 12:01 PM
1,2-Dibromo-3-chloropropane	ND		1.0	µg/L	1	4/1/2014 12:01 PM
1,2-Dibromoethane	ND		1.0	µg/L	1	4/1/2014 12:01 PM
1,2-Dichlorobenzene	ND		1.0	µg/L	1	4/1/2014 12:01 PM
1,2-Dichloroethane	ND		1.0	µg/L	1	4/1/2014 12:01 PM
1,2-Dichloropropane	ND		1.0	µg/L	1	4/1/2014 12:01 PM
1,3-Dichlorobenzene	ND		1.0	µg/L	1	4/1/2014 12:01 PM
1,4-Dichlorobenzene	ND		1.0	µg/L	1	4/1/2014 12:01 PM
2-Butanone	ND		2.0	µg/L	1	4/1/2014 12:01 PM
2-Hexanone	ND		2.0	µg/L	1	4/1/2014 12:01 PM
4-Methyl-2-pentanone	ND		2.0	µg/L	1	4/1/2014 12:01 PM
Acetone	ND		2.0	µg/L	1	4/1/2014 12:01 PM
Benzene	ND		1.0	µg/L	1	4/1/2014 12:01 PM
Bromodichloromethane	ND		1.0	µg/L	1	4/1/2014 12:01 PM
Bromoform	ND		1.0	µg/L	1	4/1/2014 12:01 PM
Bromomethane	ND		1.0	µg/L	1	4/1/2014 12:01 PM
Carbon disulfide	ND		2.0	µg/L	1	4/1/2014 12:01 PM
Carbon tetrachloride	ND		1.0	µg/L	1	4/1/2014 12:01 PM
Chlorobenzene	ND		1.0	µg/L	1	4/1/2014 12:01 PM
Chloroethane	ND		1.0	µg/L	1	4/1/2014 12:01 PM
Chloroform	ND		1.0	µg/L	1	4/1/2014 12:01 PM
Chloromethane	ND		1.0	µg/L	1	4/1/2014 12:01 PM

Note:

ALS Group USA, Corp.

Date: *21-Apr-14*

Client: Seagull Environmental Technologies, Inc.
Project: Missouri Electric Works
Work Order: HS14031228
Sample ID: Equipment Rinsate
Lab ID: HS14031228-15
Collection Date: 3/27/2014 11:15 AM
Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
cis-1,2-Dichloroethene	ND		1.0	µg/L	1	4/1/2014 12:01 PM
cis-1,3-Dichloropropene	ND		1.0	µg/L	1	4/1/2014 12:01 PM
Cyclohexane	ND		1.0	µg/L	1	4/1/2014 12:01 PM
Dibromochloromethane	ND		1.0	µg/L	1	4/1/2014 12:01 PM
Dichlorodifluoromethane	ND		1.0	µg/L	1	4/1/2014 12:01 PM
Dichloromethane	ND		10	µg/L	1	4/1/2014 12:01 PM
Ethylbenzene	ND		1.0	µg/L	1	4/1/2014 12:01 PM
Isopropylbenzene	ND		1.0	µg/L	1	4/1/2014 12:01 PM
m,p-Xylene	ND		2.0	µg/L	1	4/1/2014 12:01 PM
Methyl acetate	ND		1.0	µg/L	1	4/1/2014 12:01 PM
Methyl tert-butyl ether	ND		1.0	µg/L	1	4/1/2014 12:01 PM
Methylcyclohexane	ND		1.0	µg/L	1	4/1/2014 12:01 PM
o-Xylene	ND		1.0	µg/L	1	4/1/2014 12:01 PM
Styrene	ND		1.0	µg/L	1	4/1/2014 12:01 PM
Tetrachloroethene	ND		1.0	µg/L	1	4/1/2014 12:01 PM
Toluene	ND		1.0	µg/L	1	4/1/2014 12:01 PM
trans-1,2-Dichloroethene	ND		1.0	µg/L	1	4/1/2014 12:01 PM
trans-1,3-Dichloropropene	ND		1.0	µg/L	1	4/1/2014 12:01 PM
Trichloroethene	ND		1.0	µg/L	1	4/1/2014 12:01 PM
Trichlorofluoromethane	ND		1.0	µg/L	1	4/1/2014 12:01 PM
Vinyl chloride	ND		1.0	µg/L	1	4/1/2014 12:01 PM
Xylenes, Total	ND		3.0	µg/L	1	4/1/2014 12:01 PM
Surr: 1,2-Dichloroethane-d4	*89.6*		*70-125*	*%REC*	1	4/1/2014 12:01 PM
Surr: 4-Bromofluorobenzene	*98.4*		*72-125*	*%REC*	1	4/1/2014 12:01 PM
Surr: Dibromofluoromethane	*88.4*		*71-125*	*%REC*	1	4/1/2014 12:01 PM
Surr: Toluene-d8	*92.0*		*75-125*	*%REC*	1	4/1/2014 12:01 PM

Note:

ALS Group USA, Corp.

Date: *21-Apr-14*

Client: Seagull Environmental Technologies, Inc.
Project: Missouri Electric Works
Work Order: HS14031228
Sample ID: Equipment Rinsate - Filtered
Lab ID: HS14031228-16
Collection Date: 3/27/2014 11:15 AM
Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS BY SW8082A			**SW8082**		Prep Date: **4/3/2014**	Analyst: **SE**
Aroclor 1016	ND		0.500	µg/L	1	4/3/2014 09:54 PM
Aroclor 1221	ND		0.500	µg/L	1	4/3/2014 09:54 PM
Aroclor 1232	ND		0.500	µg/L	1	4/3/2014 09:54 PM
Aroclor 1242	ND		0.500	µg/L	1	4/3/2014 09:54 PM
Aroclor 1248	ND		0.500	µg/L	1	4/3/2014 09:54 PM
Aroclor 1254	ND		0.500	µg/L	1	4/3/2014 09:54 PM
Aroclor 1260	ND		0.500	µg/L	1	4/3/2014 09:54 PM
Surr: Decachlorobiphenyl	*124*		*54-140*	*%REC*	1	4/3/2014 09:54 PM
Surr: Tetrachloro-m-xylene	*115*		*53-137*	*%REC*	1	4/3/2014 09:54 PM

Note:

ALS Group USA, Corp.

Date: *21-Apr-14*

Client: Seagull Environmental Technologies, Inc.
Project: Missouri Electric Works
Work Order: HS14031228
Sample ID: Field Blank
Lab ID: HS14031228-17
Collection Date: 3/27/2014 01:50 PM
Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS BY SW8082A			**SW8082**		Prep Date: **4/3/2014**	Analyst: **SE**
Aroclor 1016	ND		0.500	µg/L	1	4/3/2014 10:09 PM
Aroclor 1221	ND		0.500	µg/L	1	4/3/2014 10:09 PM
Aroclor 1232	ND		0.500	µg/L	1	4/3/2014 10:09 PM
Aroclor 1242	ND		0.500	µg/L	1	4/3/2014 10:09 PM
Aroclor 1248	ND		0.500	µg/L	1	4/3/2014 10:09 PM
Aroclor 1254	ND		0.500	µg/L	1	4/3/2014 10:09 PM
Aroclor 1260	ND		0.500	µg/L	1	4/3/2014 10:09 PM
Surr: Decachlorobiphenyl	*97.2*		*54-140*	*%REC*	1	4/3/2014 10:09 PM
Surr: Tetrachloro-m-xylene	*93.2*		*53-137*	*%REC*	1	4/3/2014 10:09 PM
TCL VOLATILES - SW8260C			**SW8260**			Analyst: **AKP**
1,1,1-Trichloroethane	ND		1.0	µg/L	1	4/1/2014 12:25 PM
1,1,2,2-Tetrachloroethane	ND		1.0	µg/L	1	4/1/2014 12:25 PM
1,1,2-Trichlor-1,2,2-trifluoroethane	ND		1.0	µg/L	1	4/1/2014 12:25 PM
1,1,2-Trichloroethane	ND		1.0	µg/L	1	4/1/2014 12:25 PM
1,1-Dichloroethane	ND		1.0	µg/L	1	4/1/2014 12:25 PM
1,1-Dichloroethene	ND		1.0	µg/L	1	4/1/2014 12:25 PM
1,2,4-Trichlorobenzene	ND		1.0	µg/L	1	4/1/2014 12:25 PM
1,2-Dibromo-3-chloropropane	ND		1.0	µg/L	1	4/1/2014 12:25 PM
1,2-Dibromoethane	ND		1.0	µg/L	1	4/1/2014 12:25 PM
1,2-Dichlorobenzene	ND		1.0	µg/L	1	4/1/2014 12:25 PM
1,2-Dichloroethane	ND		1.0	µg/L	1	4/1/2014 12:25 PM
1,2-Dichloropropane	ND		1.0	µg/L	1	4/1/2014 12:25 PM
1,3-Dichlorobenzene	ND		1.0	µg/L	1	4/1/2014 12:25 PM
1,4-Dichlorobenzene	ND		1.0	µg/L	1	4/1/2014 12:25 PM
2-Butanone	ND		2.0	µg/L	1	4/1/2014 12:25 PM
2-Hexanone	ND		2.0	µg/L	1	4/1/2014 12:25 PM
4-Methyl-2-pentanone	ND		2.0	µg/L	1	4/1/2014 12:25 PM
Acetone	ND		2.0	µg/L	1	4/1/2014 12:25 PM
Benzene	ND		1.0	µg/L	1	4/1/2014 12:25 PM
Bromodichloromethane	ND		1.0	µg/L	1	4/1/2014 12:25 PM
Bromoform	ND		1.0	µg/L	1	4/1/2014 12:25 PM
Bromomethane	ND		1.0	µg/L	1	4/1/2014 12:25 PM
Carbon disulfide	ND		2.0	µg/L	1	4/1/2014 12:25 PM
Carbon tetrachloride	ND		1.0	µg/L	1	4/1/2014 12:25 PM
Chlorobenzene	ND		1.0	µg/L	1	4/1/2014 12:25 PM
Chloroethane	ND		1.0	µg/L	1	4/1/2014 12:25 PM
Chloroform	ND		1.0	µg/L	1	4/1/2014 12:25 PM
Chloromethane	ND		1.0	µg/L	1	4/1/2014 12:25 PM

Note:

ALS Group USA, Corp.

Date: *21-Apr-14*

Client: Seagull Environmental Technologies, Inc.
Project: Missouri Electric Works
Work Order: HS14031228
Sample ID: Field Blank
Lab ID: HS14031228-17
Collection Date: 3/27/2014 01:50 PM
Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
cis-1,2-Dichloroethene	ND		1.0	µg/L	1	4/1/2014 12:25 PM
cis-1,3-Dichloropropene	ND		1.0	µg/L	1	4/1/2014 12:25 PM
Cyclohexane	ND		1.0	µg/L	1	4/1/2014 12:25 PM
Dibromochloromethane	ND		1.0	µg/L	1	4/1/2014 12:25 PM
Dichlorodifluoromethane	ND		1.0	µg/L	1	4/1/2014 12:25 PM
Dichloromethane	ND		10	µg/L	1	4/1/2014 12:25 PM
Ethylbenzene	ND		1.0	µg/L	1	4/1/2014 12:25 PM
Isopropylbenzene	ND		1.0	µg/L	1	4/1/2014 12:25 PM
m,p-Xylene	ND		2.0	µg/L	1	4/1/2014 12:25 PM
Methyl acetate	ND		1.0	µg/L	1	4/1/2014 12:25 PM
Methyl tert-butyl ether	ND		1.0	µg/L	1	4/1/2014 12:25 PM
Methylcyclohexane	ND		1.0	µg/L	1	4/1/2014 12:25 PM
o-Xylene	ND		1.0	µg/L	1	4/1/2014 12:25 PM
Styrene	ND		1.0	µg/L	1	4/1/2014 12:25 PM
Tetrachloroethene	ND		1.0	µg/L	1	4/1/2014 12:25 PM
Toluene	ND		1.0	µg/L	1	4/1/2014 12:25 PM
trans-1,2-Dichloroethene	ND		1.0	µg/L	1	4/1/2014 12:25 PM
trans-1,3-Dichloropropene	ND		1.0	µg/L	1	4/1/2014 12:25 PM
Trichloroethene	ND		1.0	µg/L	1	4/1/2014 12:25 PM
Trichlorofluoromethane	ND		1.0	µg/L	1	4/1/2014 12:25 PM
Vinyl chloride	ND		1.0	µg/L	1	4/1/2014 12:25 PM
Xylenes, Total	ND		3.0	µg/L	1	4/1/2014 12:25 PM
Surr: 1,2-Dichloroethane-d4	*87.7*		*70-125*	*%REC*	1	4/1/2014 12:25 PM
Surr: 4-Bromofluorobenzene	*100*		*72-125*	*%REC*	1	4/1/2014 12:25 PM
Surr: Dibromofluoromethane	*87.4*		*71-125*	*%REC*	1	4/1/2014 12:25 PM
Surr: Toluene-d8	*93.9*		*75-125*	*%REC*	1	4/1/2014 12:25 PM

Note:

ALS Group USA, Corp.

Date: *21-Apr-14*

Client: Seagull Environmental Technologies, Inc.
Project: Missouri Electric Works
Work Order: HS14031228
Sample ID: Trip Blank
Lab ID: HS14031228-18
Collection Date: 3/27/2014 02:00 PM
Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TCL VOLATILES - SW8260C			**SW8260**			Analyst: **AKP**
1,1,1-Trichloroethane	ND		1.0	µg/L	1	4/1/2014 12:50 PM
1,1,2,2-Tetrachloroethane	ND		1.0	µg/L	1	4/1/2014 12:50 PM
1,1,2-Trichlor-1,2,2-trifluoroethane	ND		1.0	µg/L	1	4/1/2014 12:50 PM
1,1,2-Trichloroethane	ND		1.0	µg/L	1	4/1/2014 12:50 PM
1,1-Dichloroethane	ND		1.0	µg/L	1	4/1/2014 12:50 PM
1,1-Dichloroethene	ND		1.0	µg/L	1	4/1/2014 12:50 PM
1,2,4-Trichlorobenzene	ND		1.0	µg/L	1	4/1/2014 12:50 PM
1,2-Dibromo-3-chloropropane	ND		1.0	µg/L	1	4/1/2014 12:50 PM
1,2-Dibromoethane	ND		1.0	µg/L	1	4/1/2014 12:50 PM
1,2-Dichlorobenzene	ND		1.0	µg/L	1	4/1/2014 12:50 PM
1,2-Dichloroethane	ND		1.0	µg/L	1	4/1/2014 12:50 PM
1,2-Dichloropropane	ND		1.0	µg/L	1	4/1/2014 12:50 PM
1,3-Dichlorobenzene	ND		1.0	µg/L	1	4/1/2014 12:50 PM
1,4-Dichlorobenzene	ND		1.0	µg/L	1	4/1/2014 12:50 PM
2-Butanone	ND		2.0	µg/L	1	4/1/2014 12:50 PM
2-Hexanone	ND		2.0	µg/L	1	4/1/2014 12:50 PM
4-Methyl-2-pentanone	ND		2.0	µg/L	1	4/1/2014 12:50 PM
Acetone	ND		2.0	µg/L	1	4/1/2014 12:50 PM
Benzene	ND		1.0	µg/L	1	4/1/2014 12:50 PM
Bromodichloromethane	ND		1.0	µg/L	1	4/1/2014 12:50 PM
Bromoform	ND		1.0	µg/L	1	4/1/2014 12:50 PM
Bromomethane	ND		1.0	µg/L	1	4/1/2014 12:50 PM
Carbon disulfide	ND		2.0	µg/L	1	4/1/2014 12:50 PM
Carbon tetrachloride	ND		1.0	µg/L	1	4/1/2014 12:50 PM
Chlorobenzene	ND		1.0	µg/L	1	4/1/2014 12:50 PM
Chloroethane	ND		1.0	µg/L	1	4/1/2014 12:50 PM
Chloroform	ND		1.0	µg/L	1	4/1/2014 12:50 PM
Chloromethane	ND		1.0	µg/L	1	4/1/2014 12:50 PM
cis-1,2-Dichloroethene	ND		1.0	µg/L	1	4/1/2014 12:50 PM
cis-1,3-Dichloropropene	ND		1.0	µg/L	1	4/1/2014 12:50 PM
Cyclohexane	ND		1.0	µg/L	1	4/1/2014 12:50 PM
Dibromochloromethane	ND		1.0	µg/L	1	4/1/2014 12:50 PM
Dichlorodifluoromethane	ND		1.0	µg/L	1	4/1/2014 12:50 PM
Dichloromethane	ND		10	µg/L	1	4/1/2014 12:50 PM
Ethylbenzene	ND		1.0	µg/L	1	4/1/2014 12:50 PM
Isopropylbenzene	ND		1.0	µg/L	1	4/1/2014 12:50 PM
m,p-Xylene	ND		2.0	µg/L	1	4/1/2014 12:50 PM
Methyl acetate	ND		1.0	µg/L	1	4/1/2014 12:50 PM
Methyl tert-butyl ether	ND		1.0	µg/L	1	4/1/2014 12:50 PM

Note:

ALS Group USA, Corp.

Date: *21-Apr-14*

Client: Seagull Environmental Technologies, Inc.
Project: Missouri Electric Works
Work Order: HS14031228
Sample ID: Trip Blank
Lab ID: HS14031228-18
Collection Date: 3/27/2014 02:00 PM
Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Methylcyclohexane	ND		1.0	µg/L	1	4/1/2014 12:50 PM
o-Xylene	ND		1.0	µg/L	1	4/1/2014 12:50 PM
Styrene	ND		1.0	µg/L	1	4/1/2014 12:50 PM
Tetrachloroethene	ND		1.0	µg/L	1	4/1/2014 12:50 PM
Toluene	ND		1.0	µg/L	1	4/1/2014 12:50 PM
trans-1,2-Dichloroethene	ND		1.0	µg/L	1	4/1/2014 12:50 PM
trans-1,3-Dichloropropene	ND		1.0	µg/L	1	4/1/2014 12:50 PM
Trichloroethene	ND		1.0	µg/L	1	4/1/2014 12:50 PM
Trichlorofluoromethane	ND		1.0	µg/L	1	4/1/2014 12:50 PM
Vinyl chloride	ND		1.0	µg/L	1	4/1/2014 12:50 PM
Xylenes, Total	ND		3.0	µg/L	1	4/1/2014 12:50 PM
Surr: 1,2-Dichloroethane-d4	*89.3*		*70-125*	*%REC*	1	4/1/2014 12:50 PM
Surr: 4-Bromofluorobenzene	*97.1*		*72-125*	*%REC*	1	4/1/2014 12:50 PM
Surr: Dibromofluoromethane	*87.0*		*71-125*	*%REC*	1	4/1/2014 12:50 PM
Surr: Toluene-d8	*92.0*		*75-125*	*%REC*	1	4/1/2014 12:50 PM

Note:

ALS Group USA, Corp.

Date: *21-Apr-14*

Client: Seagull Environmental Technologies, Inc.
Project: Missouri Electric Works
Work Order: HS14031228
Sample ID: MW-1
Lab ID: HS14031228-19
Collection Date: 3/27/2014 01:55 PM
Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS BY SW8082A			**SW8082**		Prep Date: **4/3/2014**	Analyst: **SE**
Aroclor 1016	ND		0.500	µg/L	1	4/3/2014 10:24 PM
Aroclor 1221	ND		0.500	µg/L	1	4/3/2014 10:24 PM
Aroclor 1232	ND		0.500	µg/L	1	4/3/2014 10:24 PM
Aroclor 1242	ND		0.500	µg/L	1	4/3/2014 10:24 PM
Aroclor 1248	ND		0.500	µg/L	1	4/3/2014 10:24 PM
Aroclor 1254	ND		0.500	µg/L	1	4/3/2014 10:24 PM
Aroclor 1260	ND		0.500	µg/L	1	4/3/2014 10:24 PM
Surr: Decachlorobiphenyl	*126*		*54-140*	*%REC*	1	4/3/2014 10:24 PM
Surr: Tetrachloro-m-xylene	*120*		*53-137*	*%REC*	1	4/3/2014 10:24 PM
TCL VOLATILES - SW8260C			**SW8260**			Analyst: **AKP**
1,1,1-Trichloroethane	ND		1.0	µg/L	1	4/7/2014 03:43 PM
1,1,2,2-Tetrachloroethane	ND		1.0	µg/L	1	4/7/2014 03:43 PM
1,1,2-Trichlor-1,2,2-trifluoroethane	ND		1.0	µg/L	1	4/7/2014 03:43 PM
1,1,2-Trichloroethane	ND		1.0	µg/L	1	4/7/2014 03:43 PM
1,1-Dichloroethane	**9.7**		**1.0**	**µg/L**	1	4/7/2014 03:43 PM
1,1-Dichloroethene	**2.2**		**1.0**	**µg/L**	1	4/7/2014 03:43 PM
1,2,4-Trichlorobenzene	ND		1.0	µg/L	1	4/7/2014 03:43 PM
1,2-Dibromo-3-chloropropane	ND		1.0	µg/L	1	4/7/2014 03:43 PM
1,2-Dibromoethane	ND		1.0	µg/L	1	4/7/2014 03:43 PM
1,2-Dichlorobenzene	ND		1.0	µg/L	1	4/7/2014 03:43 PM
1,2-Dichloroethane	ND		1.0	µg/L	1	4/7/2014 03:43 PM
1,2-Dichloropropane	ND		1.0	µg/L	1	4/7/2014 03:43 PM
1,3-Dichlorobenzene	ND		1.0	µg/L	1	4/7/2014 03:43 PM
1,4-Dichlorobenzene	ND		1.0	µg/L	1	4/7/2014 03:43 PM
2-Butanone	ND		2.0	µg/L	1	4/7/2014 03:43 PM
2-Hexanone	ND		2.0	µg/L	1	4/7/2014 03:43 PM
4-Methyl-2-pentanone	ND		2.0	µg/L	1	4/7/2014 03:43 PM
Acetone	ND		2.0	µg/L	1	4/7/2014 03:43 PM
Benzene	ND		1.0	µg/L	1	4/7/2014 03:43 PM
Bromodichloromethane	ND		1.0	µg/L	1	4/7/2014 03:43 PM
Bromoform	ND		1.0	µg/L	1	4/7/2014 03:43 PM
Bromomethane	ND		1.0	µg/L	1	4/7/2014 03:43 PM
Carbon disulfide	ND		2.0	µg/L	1	4/7/2014 03:43 PM
Carbon tetrachloride	ND		1.0	µg/L	1	4/7/2014 03:43 PM
Chlorobenzene	ND		1.0	µg/L	1	4/7/2014 03:43 PM
Chloroethane	ND		1.0	µg/L	1	4/7/2014 03:43 PM
Chloroform	ND		1.0	µg/L	1	4/7/2014 03:43 PM
Chloromethane	ND		1.0	µg/L	1	4/7/2014 03:43 PM

Note:

ALS Group USA, Corp.

Date: *21-Apr-14*

Client: Seagull Environmental Technologies, Inc.
Project: Missouri Electric Works
Work Order: HS14031228
Sample ID: MW-1
Lab ID: HS14031228-19
Collection Date: 3/27/2014 01:55 PM
Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
cis-1,2-Dichloroethene	ND		1.0	µg/L	1	4/7/2014 03:43 PM
cis-1,3-Dichloropropene	ND		1.0	µg/L	1	4/7/2014 03:43 PM
Cyclohexane	ND		1.0	µg/L	1	4/7/2014 03:43 PM
Dibromochloromethane	ND		1.0	µg/L	1	4/7/2014 03:43 PM
Dichlorodifluoromethane	ND		1.0	µg/L	1	4/7/2014 03:43 PM
Dichloromethane	ND		10	µg/L	1	4/7/2014 03:43 PM
Ethylbenzene	ND		1.0	µg/L	1	4/7/2014 03:43 PM
Isopropylbenzene	ND		1.0	µg/L	1	4/7/2014 03:43 PM
m,p-Xylene	ND		2.0	µg/L	1	4/7/2014 03:43 PM
Methyl acetate	ND		1.0	µg/L	1	4/7/2014 03:43 PM
Methyl tert-butyl ether	ND		1.0	µg/L	1	4/7/2014 03:43 PM
Methylcyclohexane	ND		1.0	µg/L	1	4/7/2014 03:43 PM
o-Xylene	ND		1.0	µg/L	1	4/7/2014 03:43 PM
Styrene	ND		1.0	µg/L	1	4/7/2014 03:43 PM
Tetrachloroethene	ND		1.0	µg/L	1	4/7/2014 03:43 PM
Toluene	ND		1.0	µg/L	1	4/7/2014 03:43 PM
trans-1,2-Dichloroethene	ND		1.0	µg/L	1	4/7/2014 03:43 PM
trans-1,3-Dichloropropene	ND		1.0	µg/L	1	4/7/2014 03:43 PM
Trichloroethene	**6.5**		**1.0**	**µg/L**	1	4/7/2014 03:43 PM
Trichlorofluoromethane	ND		1.0	µg/L	1	4/7/2014 03:43 PM
Vinyl chloride	ND		1.0	µg/L	1	4/7/2014 03:43 PM
Xylenes, Total	ND		3.0	µg/L	1	4/7/2014 03:43 PM
Surr: 1,2-Dichloroethane-d4	*87.3*		*70-125*	*%REC*	1	4/7/2014 03:43 PM
Surr: 4-Bromofluorobenzene	*99.5*		*72-125*	*%REC*	1	4/7/2014 03:43 PM
Surr: Dibromofluoromethane	*88.8*		*71-125*	*%REC*	1	4/7/2014 03:43 PM
Surr: Toluene-d8	*93.3*		*75-125*	*%REC*	1	4/7/2014 03:43 PM

Note:

ALS Group USA, Corp.

Date: *21-Apr-14*

Client: Seagull Environmental Technologies, Inc.
Project: Missouri Electric Works
Work Order: HS14031228
Sample ID: MW-1 Filtered
Lab ID: HS14031228-20
Collection Date: 3/27/2014 01:55 PM
Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS BY SW8082A			**SW8082**		Prep Date: **4/3/2014**	Analyst: **SE**
Aroclor 1016	ND		0.500	µg/L	1	4/4/2014 12:26 AM
Aroclor 1221	ND		0.500	µg/L	1	4/4/2014 12:26 AM
Aroclor 1232	ND		0.500	µg/L	1	4/4/2014 12:26 AM
Aroclor 1242	ND		0.500	µg/L	1	4/4/2014 12:26 AM
Aroclor 1248	ND		0.500	µg/L	1	4/4/2014 12:26 AM
Aroclor 1254	ND		0.500	µg/L	1	4/4/2014 12:26 AM
Aroclor 1260	ND		0.500	µg/L	1	4/4/2014 12:26 AM
Surr: Decachlorobiphenyl	*125*		*54-140*	*%REC*	1	4/4/2014 12:26 AM
Surr: Tetrachloro-m-xylene	*117*		*53-137*	*%REC*	1	4/4/2014 12:26 AM

Note:

ALS Group USA, Corp.

Date: *21-Apr-14*

Client: Seagull Environmental Technologies, Inc.
Project: Missouri Electric Works
Work Order: HS14031228
Sample ID: MW-12
Lab ID: HS14031228-21
Collection Date: 3/27/2014 12:20 PM
Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS BY SW8082A			**SW8082**		Prep Date: **4/3/2014**	Analyst: **SE**
Aroclor 1016	ND		0.500	µg/L	1	4/4/2014 12:41 AM
Aroclor 1221	ND		0.500	µg/L	1	4/4/2014 12:41 AM
Aroclor 1232	ND		0.500	µg/L	1	4/4/2014 12:41 AM
Aroclor 1242	ND		0.500	µg/L	1	4/4/2014 12:41 AM
Aroclor 1248	ND		0.500	µg/L	1	4/4/2014 12:41 AM
Aroclor 1254	ND		0.500	µg/L	1	4/4/2014 12:41 AM
Aroclor 1260	ND		0.500	µg/L	1	4/4/2014 12:41 AM
Surr: Decachlorobiphenyl	*108*		*54-140*	*%REC*	1	4/4/2014 12:41 AM
Surr: Tetrachloro-m-xylene	*103*		*53-137*	*%REC*	1	4/4/2014 12:41 AM
TCL VOLATILES - SW8260C			**SW8260**			Analyst: **AKP**
1,1,1-Trichloroethane	ND		1.0	µg/L	1	4/7/2014 06:11 PM
1,1,2,2-Tetrachloroethane	ND		1.0	µg/L	1	4/7/2014 06:11 PM
1,1,2-Trichlor-1,2,2-trifluoroethane	ND		1.0	µg/L	1	4/7/2014 06:11 PM
1,1,2-Trichloroethane	ND		1.0	µg/L	1	4/7/2014 06:11 PM
1,1-Dichloroethane	ND		1.0	µg/L	1	4/7/2014 06:11 PM
1,1-Dichloroethene	ND		1.0	µg/L	1	4/7/2014 06:11 PM
1,2,4-Trichlorobenzene	ND		1.0	µg/L	1	4/7/2014 06:11 PM
1,2-Dibromo-3-chloropropane	ND		1.0	µg/L	1	4/7/2014 06:11 PM
1,2-Dibromoethane	ND		1.0	µg/L	1	4/7/2014 06:11 PM
1,2-Dichlorobenzene	ND		1.0	µg/L	1	4/7/2014 06:11 PM
1,2-Dichloroethane	ND		1.0	µg/L	1	4/7/2014 06:11 PM
1,2-Dichloropropane	ND		1.0	µg/L	1	4/7/2014 06:11 PM
1,3-Dichlorobenzene	**2.6**		**1.0**	**µg/L**	1	4/7/2014 06:11 PM
1,4-Dichlorobenzene	**6.5**		**1.0**	**µg/L**	1	4/7/2014 06:11 PM
2-Butanone	ND		2.0	µg/L	1	4/7/2014 06:11 PM
2-Hexanone	ND		2.0	µg/L	1	4/7/2014 06:11 PM
4-Methyl-2-pentanone	ND		2.0	µg/L	1	4/7/2014 06:11 PM
Acetone	ND		2.0	µg/L	1	4/7/2014 06:11 PM
Benzene	**1.6**		**1.0**	**µg/L**	1	4/7/2014 06:11 PM
Bromodichloromethane	ND		1.0	µg/L	1	4/7/2014 06:11 PM
Bromoform	ND		1.0	µg/L	1	4/7/2014 06:11 PM
Bromomethane	ND		1.0	µg/L	1	4/7/2014 06:11 PM
Carbon disulfide	ND		2.0	µg/L	1	4/7/2014 06:11 PM
Carbon tetrachloride	ND		1.0	µg/L	1	4/7/2014 06:11 PM
Chlorobenzene	**210**		**5.0**	**µg/L**	5	4/7/2014 06:36 PM
Chloroethane	ND		1.0	µg/L	1	4/7/2014 06:11 PM
Chloroform	ND		1.0	µg/L	1	4/7/2014 06:11 PM
Chloromethane	ND		1.0	µg/L	1	4/7/2014 06:11 PM

Note:

ALS Group USA, Corp.

Date: *21-Apr-14*

Client: Seagull Environmental Technologies, Inc.
Project: Missouri Electric Works
Work Order: HS14031228
Sample ID: MW-12
Lab ID: HS14031228-21
Collection Date: 3/27/2014 12:20 PM
Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
cis-1,2-Dichloroethene	ND		1.0	µg/L	1	4/7/2014 06:11 PM
cis-1,3-Dichloropropene	ND		1.0	µg/L	1	4/7/2014 06:11 PM
Cyclohexane	ND		1.0	µg/L	1	4/7/2014 06:11 PM
Dibromochloromethane	ND		1.0	µg/L	1	4/7/2014 06:11 PM
Dichlorodifluoromethane	ND		1.0	µg/L	1	4/7/2014 06:11 PM
Dichloromethane	ND		10	µg/L	1	4/7/2014 06:11 PM
Ethylbenzene	ND		1.0	µg/L	1	4/7/2014 06:11 PM
Isopropylbenzene	ND		1.0	µg/L	1	4/7/2014 06:11 PM
m,p-Xylene	ND		2.0	µg/L	1	4/7/2014 06:11 PM
Methyl acetate	ND		1.0	µg/L	1	4/7/2014 06:11 PM
Methyl tert-butyl ether	ND		1.0	µg/L	1	4/7/2014 06:11 PM
Methylcyclohexane	ND		1.0	µg/L	1	4/7/2014 06:11 PM
o-Xylene	ND		1.0	µg/L	1	4/7/2014 06:11 PM
Styrene	ND		1.0	µg/L	1	4/7/2014 06:11 PM
Tetrachloroethene	ND		1.0	µg/L	1	4/7/2014 06:11 PM
Toluene	ND		1.0	µg/L	1	4/7/2014 06:11 PM
trans-1,2-Dichloroethene	ND		1.0	µg/L	1	4/7/2014 06:11 PM
trans-1,3-Dichloropropene	ND		1.0	µg/L	1	4/7/2014 06:11 PM
Trichloroethene	ND		1.0	µg/L	1	4/7/2014 06:11 PM
Trichlorofluoromethane	ND		1.0	µg/L	1	4/7/2014 06:11 PM
Vinyl chloride	ND		1.0	µg/L	1	4/7/2014 06:11 PM
Xylenes, Total	ND		3.0	µg/L	1	4/7/2014 06:11 PM
Surr: 1,2-Dichloroethane-d4	*90.1*		*70-125*	*%REC*	1	4/7/2014 06:11 PM
Surr: 1,2-Dichloroethane-d4	*88.7*		*70-125*	*%REC*	5	4/7/2014 06:36 PM
Surr: 4-Bromofluorobenzene	*97.9*		*72-125*	*%REC*	5	4/7/2014 06:36 PM
Surr: 4-Bromofluorobenzene	*101*		*72-125*	*%REC*	1	4/7/2014 06:11 PM
Surr: Dibromofluoromethane	*89.4*		*71-125*	*%REC*	5	4/7/2014 06:36 PM
Surr: Dibromofluoromethane	*90.0*		*71-125*	*%REC*	1	4/7/2014 06:11 PM
Surr: Toluene-d8	*94.0*		*75-125*	*%REC*	5	4/7/2014 06:36 PM
Surr: Toluene-d8	*95.3*		*75-125*	*%REC*	1	4/7/2014 06:11 PM

Note:

ALS Group USA, Corp.

Date: *21-Apr-14*

Client: Seagull Environmental Technologies, Inc.
Project: Missouri Electric Works
Work Order: HS14031228
Sample ID: MW-12 Filtered
Lab ID: HS14031228-22
Collection Date: 3/27/2014 12:20 PM
Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS BY SW8082A			**SW8082**		Prep Date: **4/3/2014**	Analyst: **SE**
Aroclor 1016	ND		0.500	µg/L	1	4/4/2014 12:56 AM
Aroclor 1221	ND		0.500	µg/L	1	4/4/2014 12:56 AM
Aroclor 1232	ND		0.500	µg/L	1	4/4/2014 12:56 AM
Aroclor 1242	ND		0.500	µg/L	1	4/4/2014 12:56 AM
Aroclor 1248	ND		0.500	µg/L	1	4/4/2014 12:56 AM
Aroclor 1254	ND		0.500	µg/L	1	4/4/2014 12:56 AM
Aroclor 1260	ND		0.500	µg/L	1	4/4/2014 12:56 AM
Surr: Decachlorobiphenyl	*118*		*54-140*	*%REC*	1	4/4/2014 12:56 AM
Surr: Tetrachloro-m-xylene	*107*		*53-137*	*%REC*	1	4/4/2014 12:56 AM

Note:

ALS Group USA, Corp.

Date: *21-Apr-14*

Client: Seagull Environmental Technologies, Inc.
Project: Missouri Electric Works
Work Order: HS14031228
Sample ID: MW-11
Lab ID: HS14031228-23
Collection Date: 3/27/2014 10:00 AM
Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS BY SW8082A			**SW8082**		Prep Date: **4/3/2014**	Analyst: **SE**
Aroclor 1016	ND		0.500	µg/L	1	4/4/2014 01:11 AM
Aroclor 1221	ND		0.500	µg/L	1	4/4/2014 01:11 AM
Aroclor 1232	ND		0.500	µg/L	1	4/4/2014 01:11 AM
Aroclor 1242	ND		0.500	µg/L	1	4/4/2014 01:11 AM
Aroclor 1248	ND		0.500	µg/L	1	4/4/2014 01:11 AM
Aroclor 1254	ND		0.500	µg/L	1	4/4/2014 01:11 AM
Aroclor 1260	**2.34**		**0.500**	**µg/L**	1	4/4/2014 01:11 AM
Surr: Decachlorobiphenyl	*123*		*54-140*	*%REC*	1	4/4/2014 01:11 AM
Surr: Tetrachloro-m-xylene	*114*		*53-137*	*%REC*	1	4/4/2014 01:11 AM
TCL VOLATILES - SW8260C			**SW8260**			Analyst: **AKP**
1,1,1-Trichloroethane	ND		1.0	µg/L	1	4/7/2014 04:08 PM
1,1,2,2-Tetrachloroethane	ND		1.0	µg/L	1	4/7/2014 04:08 PM
1,1,2-Trichlor-1,2,2-trifluoroethane	ND		1.0	µg/L	1	4/7/2014 04:08 PM
1,1,2-Trichloroethane	ND		1.0	µg/L	1	4/7/2014 04:08 PM
1,1-Dichloroethane	ND		1.0	µg/L	1	4/7/2014 04:08 PM
1,1-Dichloroethene	ND		1.0	µg/L	1	4/7/2014 04:08 PM
1,2,4-Trichlorobenzene	ND		1.0	µg/L	1	4/7/2014 04:08 PM
1,2-Dibromo-3-chloropropane	ND		1.0	µg/L	1	4/7/2014 04:08 PM
1,2-Dibromoethane	ND		1.0	µg/L	1	4/7/2014 04:08 PM
1,2-Dichlorobenzene	ND		1.0	µg/L	1	4/7/2014 04:08 PM
1,2-Dichloroethane	ND		1.0	µg/L	1	4/7/2014 04:08 PM
1,2-Dichloropropane	ND		1.0	µg/L	1	4/7/2014 04:08 PM
1,3-Dichlorobenzene	ND		1.0	µg/L	1	4/7/2014 04:08 PM
1,4-Dichlorobenzene	ND		1.0	µg/L	1	4/7/2014 04:08 PM
2-Butanone	ND		2.0	µg/L	1	4/7/2014 04:08 PM
2-Hexanone	ND		2.0	µg/L	1	4/7/2014 04:08 PM
4-Methyl-2-pentanone	ND		2.0	µg/L	1	4/7/2014 04:08 PM
Acetone	ND		2.0	µg/L	1	4/7/2014 04:08 PM
Benzene	ND		1.0	µg/L	1	4/7/2014 04:08 PM
Bromodichloromethane	ND		1.0	µg/L	1	4/7/2014 04:08 PM
Bromoform	ND		1.0	µg/L	1	4/7/2014 04:08 PM
Bromomethane	ND		1.0	µg/L	1	4/7/2014 04:08 PM
Carbon disulfide	ND		2.0	µg/L	1	4/7/2014 04:08 PM
Carbon tetrachloride	ND		1.0	µg/L	1	4/7/2014 04:08 PM
Chlorobenzene	ND		1.0	µg/L	1	4/7/2014 04:08 PM
Chloroethane	ND		1.0	µg/L	1	4/7/2014 04:08 PM
Chloroform	ND		1.0	µg/L	1	4/7/2014 04:08 PM
Chloromethane	ND		1.0	µg/L	1	4/7/2014 04:08 PM

Note:

ALS Group USA, Corp.

Date: *21-Apr-14*

Client: Seagull Environmental Technologies, Inc.
Project: Missouri Electric Works
Work Order: HS14031228
Sample ID: MW-11
Lab ID: HS14031228-23
Collection Date: 3/27/2014 10:00 AM
Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
cis-1,2-Dichloroethene	ND		1.0	µg/L	1	4/7/2014 04:08 PM
cis-1,3-Dichloropropene	ND		1.0	µg/L	1	4/7/2014 04:08 PM
Cyclohexane	ND		1.0	µg/L	1	4/7/2014 04:08 PM
Dibromochloromethane	ND		1.0	µg/L	1	4/7/2014 04:08 PM
Dichlorodifluoromethane	ND		1.0	µg/L	1	4/7/2014 04:08 PM
Dichloromethane	ND		10	µg/L	1	4/7/2014 04:08 PM
Ethylbenzene	ND		1.0	µg/L	1	4/7/2014 04:08 PM
Isopropylbenzene	ND		1.0	µg/L	1	4/7/2014 04:08 PM
m,p-Xylene	ND		2.0	µg/L	1	4/7/2014 04:08 PM
Methyl acetate	ND		1.0	µg/L	1	4/7/2014 04:08 PM
Methyl tert-butyl ether	ND		1.0	µg/L	1	4/7/2014 04:08 PM
Methylcyclohexane	ND		1.0	µg/L	1	4/7/2014 04:08 PM
o-Xylene	ND		1.0	µg/L	1	4/7/2014 04:08 PM
Styrene	ND		1.0	µg/L	1	4/7/2014 04:08 PM
Tetrachloroethene	ND		1.0	µg/L	1	4/7/2014 04:08 PM
Toluene	ND		1.0	µg/L	1	4/7/2014 04:08 PM
trans-1,2-Dichloroethene	ND		1.0	µg/L	1	4/7/2014 04:08 PM
trans-1,3-Dichloropropene	ND		1.0	µg/L	1	4/7/2014 04:08 PM
Trichloroethene	ND		1.0	µg/L	1	4/7/2014 04:08 PM
Trichlorofluoromethane	ND		1.0	µg/L	1	4/7/2014 04:08 PM
Vinyl chloride	ND		1.0	µg/L	1	4/7/2014 04:08 PM
Xylenes, Total	ND		3.0	µg/L	1	4/7/2014 04:08 PM
Surr: 1,2-Dichloroethane-d4	*88.3*		*70-125*	*%REC*	1	4/7/2014 04:08 PM
Surr: 4-Bromofluorobenzene	*99.9*		*72-125*	*%REC*	1	4/7/2014 04:08 PM
Surr: Dibromofluoromethane	*88.1*		*71-125*	*%REC*	1	4/7/2014 04:08 PM
Surr: Toluene-d8	*93.1*		*75-125*	*%REC*	1	4/7/2014 04:08 PM

Note:

ALS Group USA, Corp.

Date: *21-Apr-14*

Client: Seagull Environmental Technologies, Inc.
Project: Missouri Electric Works
Work Order: HS14031228
Sample ID: MW-11 Filtered
Lab ID: HS14031228-24
Collection Date: 3/27/2014 10:00 AM
Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS BY SW8082A			**SW8082**		Prep Date: **4/3/2014**	Analyst: **SE**
Aroclor 1016	ND		0.500	µg/L	1	4/4/2014 01:26 AM
Aroclor 1221	ND		0.500	µg/L	1	4/4/2014 01:26 AM
Aroclor 1232	ND		0.500	µg/L	1	4/4/2014 01:26 AM
Aroclor 1242	ND		0.500	µg/L	1	4/4/2014 01:26 AM
Aroclor 1248	ND		0.500	µg/L	1	4/4/2014 01:26 AM
Aroclor 1254	ND		0.500	µg/L	1	4/4/2014 01:26 AM
Aroclor 1260	ND		0.500	µg/L	1	4/4/2014 01:26 AM
Surr: Decachlorobiphenyl	*103*		*54-140*	*%REC*	1	4/4/2014 01:26 AM
Surr: Tetrachloro-m-xylene	*93.9*		*53-137*	*%REC*	1	4/4/2014 01:26 AM

Note:

ALS Group USA, Corp.

Date: *21-Apr-14*

Client: Seagull Environmental Technologies, Inc.
Project: Missouri Electric Works
Work Order: HS14031228
Sample ID: MW-5
Lab ID: HS14031228-25
Collection Date: 3/26/2014 06:25 PM
Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS BY SW8082A			**SW8082**		Prep Date: **4/3/2014**	Analyst: **SE**
Aroclor 1016	ND		0.500	µg/L	1	4/4/2014 07:49 AM
Aroclor 1221	ND		0.500	µg/L	1	4/4/2014 07:49 AM
Aroclor 1232	ND		0.500	µg/L	1	4/4/2014 07:49 AM
Aroclor 1242	ND		0.500	µg/L	1	4/4/2014 07:49 AM
Aroclor 1248	ND		0.500	µg/L	1	4/4/2014 07:49 AM
Aroclor 1254	ND		0.500	µg/L	1	4/4/2014 07:49 AM
Aroclor 1260	ND		0.500	µg/L	1	4/4/2014 07:49 AM
Surr: Decachlorobiphenyl	*101*		*54-140*	*%REC*	1	4/4/2014 07:49 AM
Surr: Tetrachloro-m-xylene	*98.2*		*53-137*	*%REC*	1	4/4/2014 07:49 AM
TCL VOLATILES - SW8260C			**SW8260**			Analyst: **AKP**
1,1,1-Trichloroethane	ND		1.0	µg/L	1	4/7/2014 04:32 PM
1,1,2,2-Tetrachloroethane	ND		1.0	µg/L	1	4/7/2014 04:32 PM
1,1,2-Trichlor-1,2,2-trifluoroethane	ND		1.0	µg/L	1	4/7/2014 04:32 PM
1,1,2-Trichloroethane	ND		1.0	µg/L	1	4/7/2014 04:32 PM
1,1-Dichloroethane	ND		1.0	µg/L	1	4/7/2014 04:32 PM
1,1-Dichloroethene	ND		1.0	µg/L	1	4/7/2014 04:32 PM
1,2,4-Trichlorobenzene	ND		1.0	µg/L	1	4/7/2014 04:32 PM
1,2-Dibromo-3-chloropropane	ND		1.0	µg/L	1	4/7/2014 04:32 PM
1,2-Dibromoethane	ND		1.0	µg/L	1	4/7/2014 04:32 PM
1,2-Dichlorobenzene	ND		1.0	µg/L	1	4/7/2014 04:32 PM
1,2-Dichloroethane	ND		1.0	µg/L	1	4/7/2014 04:32 PM
1,2-Dichloropropane	ND		1.0	µg/L	1	4/7/2014 04:32 PM
1,3-Dichlorobenzene	ND		1.0	µg/L	1	4/7/2014 04:32 PM
1,4-Dichlorobenzene	ND		1.0	µg/L	1	4/7/2014 04:32 PM
2-Butanone	ND		2.0	µg/L	1	4/7/2014 04:32 PM
2-Hexanone	ND		2.0	µg/L	1	4/7/2014 04:32 PM
4-Methyl-2-pentanone	ND		2.0	µg/L	1	4/7/2014 04:32 PM
Acetone	ND		2.0	µg/L	1	4/7/2014 04:32 PM
Benzene	ND		1.0	µg/L	1	4/7/2014 04:32 PM
Bromodichloromethane	ND		1.0	µg/L	1	4/7/2014 04:32 PM
Bromoform	ND		1.0	µg/L	1	4/7/2014 04:32 PM
Bromomethane	ND		1.0	µg/L	1	4/7/2014 04:32 PM
Carbon disulfide	ND		2.0	µg/L	1	4/7/2014 04:32 PM
Carbon tetrachloride	ND		1.0	µg/L	1	4/7/2014 04:32 PM
Chlorobenzene	**7.5**		**1.0**	**µg/L**	1	4/7/2014 04:32 PM
Chloroethane	ND		1.0	µg/L	1	4/7/2014 04:32 PM
Chloroform	ND		1.0	µg/L	1	4/7/2014 04:32 PM
Chloromethane	ND		1.0	µg/L	1	4/7/2014 04:32 PM

Note:

ALS Group USA, Corp.

Date: *21-Apr-14*

Client: Seagull Environmental Technologies, Inc.
Project: Missouri Electric Works
Work Order: HS14031228
Sample ID: MW-5
Lab ID: HS14031228-25
Collection Date: 3/26/2014 06:25 PM
Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
cis-1,2-Dichloroethene	ND		1.0	µg/L	1	4/7/2014 04:32 PM
cis-1,3-Dichloropropene	ND		1.0	µg/L	1	4/7/2014 04:32 PM
Cyclohexane	ND		1.0	µg/L	1	4/7/2014 04:32 PM
Dibromochloromethane	ND		1.0	µg/L	1	4/7/2014 04:32 PM
Dichlorodifluoromethane	ND		1.0	µg/L	1	4/7/2014 04:32 PM
Dichloromethane	ND		10	µg/L	1	4/7/2014 04:32 PM
Ethylbenzene	ND		1.0	µg/L	1	4/7/2014 04:32 PM
Isopropylbenzene	ND		1.0	µg/L	1	4/7/2014 04:32 PM
m,p-Xylene	ND		2.0	µg/L	1	4/7/2014 04:32 PM
Methyl acetate	ND		1.0	µg/L	1	4/7/2014 04:32 PM
Methyl tert-butyl ether	ND		1.0	µg/L	1	4/7/2014 04:32 PM
Methylcyclohexane	ND		1.0	µg/L	1	4/7/2014 04:32 PM
o-Xylene	ND		1.0	µg/L	1	4/7/2014 04:32 PM
Styrene	ND		1.0	µg/L	1	4/7/2014 04:32 PM
Tetrachloroethene	ND		1.0	µg/L	1	4/7/2014 04:32 PM
Toluene	ND		1.0	µg/L	1	4/7/2014 04:32 PM
trans-1,2-Dichloroethene	ND		1.0	µg/L	1	4/7/2014 04:32 PM
trans-1,3-Dichloropropene	ND		1.0	µg/L	1	4/7/2014 04:32 PM
Trichloroethene	ND		1.0	µg/L	1	4/7/2014 04:32 PM
Trichlorofluoromethane	ND		1.0	µg/L	1	4/7/2014 04:32 PM
Vinyl chloride	ND		1.0	µg/L	1	4/7/2014 04:32 PM
Xylenes, Total	ND		3.0	µg/L	1	4/7/2014 04:32 PM
Surr: 1,2-Dichloroethane-d4	*87.7*		*70-125*	*%REC*	1	4/7/2014 04:32 PM
Surr: 4-Bromofluorobenzene	*100*		*72-125*	*%REC*	1	4/7/2014 04:32 PM
Surr: Dibromofluoromethane	*89.5*		*71-125*	*%REC*	1	4/7/2014 04:32 PM
Surr: Toluene-d8	*93.6*		*75-125*	*%REC*	1	4/7/2014 04:32 PM

Note:

ALS Group USA, Corp.

Date: *21-Apr-14*

Client: Seagull Environmental Technologies, Inc.
Project: Missouri Electric Works
Work Order: HS14031228
Sample ID: MW-5 Filtered
Lab ID: HS14031228-26
Collection Date: 3/26/2014 06:25 PM
Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS BY SW8082A			**SW8082**		Prep Date: **4/3/2014**	Analyst: **SE**
Aroclor 1016	ND		0.588	µg/L	1	4/4/2014 08:04 AM
Aroclor 1221	ND		0.588	µg/L	1	4/4/2014 08:04 AM
Aroclor 1232	ND		0.588	µg/L	1	4/4/2014 08:04 AM
Aroclor 1242	ND		0.588	µg/L	1	4/4/2014 08:04 AM
Aroclor 1248	ND		0.588	µg/L	1	4/4/2014 08:04 AM
Aroclor 1254	ND		0.588	µg/L	1	4/4/2014 08:04 AM
Aroclor 1260	ND		0.588	µg/L	1	4/4/2014 08:04 AM
Surr: Decachlorobiphenyl	*106*		*54-140*	*%REC*	1	4/4/2014 08:04 AM
Surr: Tetrachloro-m-xylene	*99.9*		*53-137*	*%REC*	1	4/4/2014 08:04 AM

Note:

ALS Group USA, Corp.

Date: *21-Apr-14*

Client: Seagull Environmental Technologies, Inc.
Project: Missouri Electric Works
Work Order: HS14031228
Sample ID: MW-3
Lab ID: HS14031228-27
Collection Date: 3/26/2014 04:55 PM
Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS BY SW8082A			**SW8082**		Prep Date: **4/3/2014**	Analyst: **SE**
Aroclor 1016	ND		0.500	µg/L	1	4/4/2014 08:19 AM
Aroclor 1221	ND		0.500	µg/L	1	4/4/2014 08:19 AM
Aroclor 1232	ND		0.500	µg/L	1	4/4/2014 08:19 AM
Aroclor 1242	ND		0.500	µg/L	1	4/4/2014 08:19 AM
Aroclor 1248	ND		0.500	µg/L	1	4/4/2014 08:19 AM
Aroclor 1254	ND		0.500	µg/L	1	4/4/2014 08:19 AM
Aroclor 1260	ND		0.500	µg/L	1	4/4/2014 08:19 AM
Surr: Decachlorobiphenyl	*119*		*54-140*	*%REC*	1	4/4/2014 08:19 AM
Surr: Tetrachloro-m-xylene	*109*		*53-137*	*%REC*	1	4/4/2014 08:19 AM
TCL VOLATILES - SW8260C			**SW8260**			Analyst: **AKP**
1,1,1-Trichloroethane	ND		1.0	µg/L	1	4/7/2014 11:56 PM
1,1,2,2-Tetrachloroethane	ND		1.0	µg/L	1	4/7/2014 11:56 PM
1,1,2-Trichlor-1,2,2-trifluoroethane	ND		1.0	µg/L	1	4/7/2014 11:56 PM
1,1,2-Trichloroethane	ND		1.0	µg/L	1	4/7/2014 11:56 PM
1,1-Dichloroethane	ND		1.0	µg/L	1	4/7/2014 11:56 PM
1,1-Dichloroethene	ND		1.0	µg/L	1	4/7/2014 11:56 PM
1,2,4-Trichlorobenzene	ND		1.0	µg/L	1	4/7/2014 11:56 PM
1,2-Dibromo-3-chloropropane	ND		1.0	µg/L	1	4/7/2014 11:56 PM
1,2-Dibromoethane	ND		1.0	µg/L	1	4/7/2014 11:56 PM
1,2-Dichlorobenzene	ND		1.0	µg/L	1	4/7/2014 11:56 PM
1,2-Dichloroethane	ND		1.0	µg/L	1	4/7/2014 11:56 PM
1,2-Dichloropropane	ND		1.0	µg/L	1	4/7/2014 11:56 PM
1,3-Dichlorobenzene	**1.8**		**1.0**	**µg/L**	1	4/7/2014 11:56 PM
1,4-Dichlorobenzene	**7.1**		**1.0**	**µg/L**	1	4/7/2014 11:56 PM
2-Butanone	ND		2.0	µg/L	1	4/7/2014 11:56 PM
2-Hexanone	ND		2.0	µg/L	1	4/7/2014 11:56 PM
4-Methyl-2-pentanone	ND		2.0	µg/L	1	4/7/2014 11:56 PM
Acetone	ND		2.0	µg/L	1	4/7/2014 11:56 PM
Benzene	**1.5**		**1.0**	**µg/L**	1	4/7/2014 11:56 PM
Bromodichloromethane	ND		1.0	µg/L	1	4/7/2014 11:56 PM
Bromoform	ND		1.0	µg/L	1	4/7/2014 11:56 PM
Bromomethane	ND		1.0	µg/L	1	4/7/2014 11:56 PM
Carbon disulfide	ND		2.0	µg/L	1	4/7/2014 11:56 PM
Carbon tetrachloride	ND		1.0	µg/L	1	4/7/2014 11:56 PM
Chlorobenzene	**230**		**5.0**	**µg/L**	5	4/8/2014 01:10 AM
Chloroethane	ND		1.0	µg/L	1	4/7/2014 11:56 PM
Chloroform	ND		1.0	µg/L	1	4/7/2014 11:56 PM
Chloromethane	ND		1.0	µg/L	1	4/7/2014 11:56 PM

Note:

ALS Group USA, Corp.

Date: *21-Apr-14*

Client: Seagull Environmental Technologies, Inc.
Project: Missouri Electric Works
Work Order: HS14031228
Sample ID: MW-3
Lab ID: HS14031228-27
Collection Date: 3/26/2014 04:55 PM
Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
cis-1,2-Dichloroethene	ND		1.0	µg/L	1	4/7/2014 11:56 PM
cis-1,3-Dichloropropene	ND		1.0	µg/L	1	4/7/2014 11:56 PM
Cyclohexane	ND		1.0	µg/L	1	4/7/2014 11:56 PM
Dibromochloromethane	ND		1.0	µg/L	1	4/7/2014 11:56 PM
Dichlorodifluoromethane	ND		1.0	µg/L	1	4/7/2014 11:56 PM
Dichloromethane	ND		10	µg/L	1	4/7/2014 11:56 PM
Ethylbenzene	ND		1.0	µg/L	1	4/7/2014 11:56 PM
Isopropylbenzene	ND		1.0	µg/L	1	4/7/2014 11:56 PM
m,p-Xylene	ND		2.0	µg/L	1	4/7/2014 11:56 PM
Methyl acetate	ND		1.0	µg/L	1	4/7/2014 11:56 PM
Methyl tert-butyl ether	ND		1.0	µg/L	1	4/7/2014 11:56 PM
Methylcyclohexane	ND		1.0	µg/L	1	4/7/2014 11:56 PM
o-Xylene	ND		1.0	µg/L	1	4/7/2014 11:56 PM
Styrene	ND		1.0	µg/L	1	4/7/2014 11:56 PM
Tetrachloroethene	ND		1.0	µg/L	1	4/7/2014 11:56 PM
Toluene	ND		1.0	µg/L	1	4/7/2014 11:56 PM
trans-1,2-Dichloroethene	ND		1.0	µg/L	1	4/7/2014 11:56 PM
trans-1,3-Dichloropropene	ND		1.0	µg/L	1	4/7/2014 11:56 PM
Trichloroethene	ND		1.0	µg/L	1	4/7/2014 11:56 PM
Trichlorofluoromethane	ND		1.0	µg/L	1	4/7/2014 11:56 PM
Vinyl chloride	ND		1.0	µg/L	1	4/7/2014 11:56 PM
Xylenes, Total	ND		3.0	µg/L	1	4/7/2014 11:56 PM
Surr: 1,2-Dichloroethane-d4	*90.3*		*70-125*	*%REC*	1	4/7/2014 11:56 PM
Surr: 1,2-Dichloroethane-d4	*87.4*		*70-125*	*%REC*	5	4/8/2014 01:10 AM
Surr: 4-Bromofluorobenzene	*100*		*72-125*	*%REC*	5	4/8/2014 01:10 AM
Surr: 4-Bromofluorobenzene	*98.7*		*72-125*	*%REC*	1	4/7/2014 11:56 PM
Surr: Dibromofluoromethane	*89.7*		*71-125*	*%REC*	5	4/8/2014 01:10 AM
Surr: Dibromofluoromethane	*90.1*		*71-125*	*%REC*	1	4/7/2014 11:56 PM
Surr: Toluene-d8	*93.9*		*75-125*	*%REC*	1	4/7/2014 11:56 PM
Surr: Toluene-d8	*95.3*		*75-125*	*%REC*	5	4/8/2014 01:10 AM

Note:

ALS Group USA, Corp.

Date: *21-Apr-14*

Client: Seagull Environmental Technologies, Inc.
Project: Missouri Electric Works
Work Order: HS14031228
Sample ID: MW-3 Filtered
Lab ID: HS14031228-28
Collection Date: 3/26/2014 04:55 PM
Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS BY SW8082A			**SW8082**		Prep Date: **4/3/2014**	Analyst: **SE**
Aroclor 1016	ND		0.500	µg/L	1	4/4/2014 10:05 AM
Aroclor 1221	ND		0.500	µg/L	1	4/4/2014 10:05 AM
Aroclor 1232	ND		0.500	µg/L	1	4/4/2014 10:05 AM
Aroclor 1242	ND		0.500	µg/L	1	4/4/2014 10:05 AM
Aroclor 1248	ND		0.500	µg/L	1	4/4/2014 10:05 AM
Aroclor 1254	ND		0.500	µg/L	1	4/4/2014 10:05 AM
Aroclor 1260	ND		0.500	µg/L	1	4/4/2014 10:05 AM
Surr: Decachlorobiphenyl	*112*		*54-140*	*%REC*	1	4/4/2014 10:05 AM
Surr: Tetrachloro-m-xylene	*103*		*53-137*	*%REC*	1	4/4/2014 10:05 AM

Note:

ALS Group USA, Corp.

Date: *21-Apr-14*

Client: Seagull Environmental Technologies, Inc.
Project: Missouri Electric Works
Work Order: HS14031228
Sample ID: MW-16A
Lab ID: HS14031228-29
Collection Date: 3/26/2014 11:41 AM
Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS BY SW8082A			**SW8082**		Prep Date: **4/3/2014**	Analyst: **SE**
Aroclor 1016	ND		0.500	µg/L	1	4/4/2014 10:50 AM
Aroclor 1221	ND		0.500	µg/L	1	4/4/2014 10:50 AM
Aroclor 1232	ND		0.500	µg/L	1	4/4/2014 10:50 AM
Aroclor 1242	ND		0.500	µg/L	1	4/4/2014 10:50 AM
Aroclor 1248	ND		0.500	µg/L	1	4/4/2014 10:50 AM
Aroclor 1254	ND		0.500	µg/L	1	4/4/2014 10:50 AM
Aroclor 1260	ND		0.500	µg/L	1	4/4/2014 10:50 AM
Surr: Decachlorobiphenyl	*130*		*54-140*	*%REC*	1	4/4/2014 10:50 AM
Surr: Tetrachloro-m-xylene	*119*		*53-137*	*%REC*	1	4/4/2014 10:50 AM
TCL VOLATILES - SW8260C			**SW8260**			Analyst: **AKP**
1,1,1-Trichloroethane	ND		1.0	µg/L	1	4/7/2014 04:57 PM
1,1,2,2-Tetrachloroethane	ND		1.0	µg/L	1	4/7/2014 04:57 PM
1,1,2-Trichlor-1,2,2-trifluoroethane	ND		1.0	µg/L	1	4/7/2014 04:57 PM
1,1,2-Trichloroethane	ND		1.0	µg/L	1	4/7/2014 04:57 PM
1,1-Dichloroethane	ND		1.0	µg/L	1	4/7/2014 04:57 PM
1,1-Dichloroethene	ND		1.0	µg/L	1	4/7/2014 04:57 PM
1,2,4-Trichlorobenzene	ND		1.0	µg/L	1	4/7/2014 04:57 PM
1,2-Dibromo-3-chloropropane	ND		1.0	µg/L	1	4/7/2014 04:57 PM
1,2-Dibromoethane	ND		1.0	µg/L	1	4/7/2014 04:57 PM
1,2-Dichlorobenzene	ND		1.0	µg/L	1	4/7/2014 04:57 PM
1,2-Dichloroethane	ND		1.0	µg/L	1	4/7/2014 04:57 PM
1,2-Dichloropropane	ND		1.0	µg/L	1	4/7/2014 04:57 PM
1,3-Dichlorobenzene	ND		1.0	µg/L	1	4/7/2014 04:57 PM
1,4-Dichlorobenzene	ND		1.0	µg/L	1	4/7/2014 04:57 PM
2-Butanone	ND		2.0	µg/L	1	4/7/2014 04:57 PM
2-Hexanone	ND		2.0	µg/L	1	4/7/2014 04:57 PM
4-Methyl-2-pentanone	ND		2.0	µg/L	1	4/7/2014 04:57 PM
Acetone	ND		2.0	µg/L	1	4/7/2014 04:57 PM
Benzene	ND		1.0	µg/L	1	4/7/2014 04:57 PM
Bromodichloromethane	ND		1.0	µg/L	1	4/7/2014 04:57 PM
Bromoform	ND		1.0	µg/L	1	4/7/2014 04:57 PM
Bromomethane	ND		1.0	µg/L	1	4/7/2014 04:57 PM
Carbon disulfide	ND		2.0	µg/L	1	4/7/2014 04:57 PM
Carbon tetrachloride	ND		1.0	µg/L	1	4/7/2014 04:57 PM
Chlorobenzene	ND		1.0	µg/L	1	4/7/2014 04:57 PM
Chloroethane	ND		1.0	µg/L	1	4/7/2014 04:57 PM
Chloroform	ND		1.0	µg/L	1	4/7/2014 04:57 PM
Chloromethane	ND		1.0	µg/L	1	4/7/2014 04:57 PM

Note:

ALS Group USA, Corp.

Date: *21-Apr-14*

Client: Seagull Environmental Technologies, Inc.
Project: Missouri Electric Works
Work Order: HS14031228
Sample ID: MW-16A
Lab ID: HS14031228-29
Collection Date: 3/26/2014 11:41 AM
Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
cis-1,2-Dichloroethene	ND		1.0	µg/L	1	4/7/2014 04:57 PM
cis-1,3-Dichloropropene	ND		1.0	µg/L	1	4/7/2014 04:57 PM
Cyclohexane	ND		1.0	µg/L	1	4/7/2014 04:57 PM
Dibromochloromethane	ND		1.0	µg/L	1	4/7/2014 04:57 PM
Dichlorodifluoromethane	ND		1.0	µg/L	1	4/7/2014 04:57 PM
Dichloromethane	ND		10	µg/L	1	4/7/2014 04:57 PM
Ethylbenzene	ND		1.0	µg/L	1	4/7/2014 04:57 PM
Isopropylbenzene	ND		1.0	µg/L	1	4/7/2014 04:57 PM
m,p-Xylene	ND		2.0	µg/L	1	4/7/2014 04:57 PM
Methyl acetate	ND		1.0	µg/L	1	4/7/2014 04:57 PM
Methyl tert-butyl ether	ND		1.0	µg/L	1	4/7/2014 04:57 PM
Methylcyclohexane	ND		1.0	µg/L	1	4/7/2014 04:57 PM
o-Xylene	ND		1.0	µg/L	1	4/7/2014 04:57 PM
Styrene	ND		1.0	µg/L	1	4/7/2014 04:57 PM
Tetrachloroethene	ND		1.0	µg/L	1	4/7/2014 04:57 PM
Toluene	ND		1.0	µg/L	1	4/7/2014 04:57 PM
trans-1,2-Dichloroethene	ND		1.0	µg/L	1	4/7/2014 04:57 PM
trans-1,3-Dichloropropene	ND		1.0	µg/L	1	4/7/2014 04:57 PM
Trichloroethene	ND		1.0	µg/L	1	4/7/2014 04:57 PM
Trichlorofluoromethane	ND		1.0	µg/L	1	4/7/2014 04:57 PM
Vinyl chloride	ND		1.0	µg/L	1	4/7/2014 04:57 PM
Xylenes, Total	ND		3.0	µg/L	1	4/7/2014 04:57 PM
Surr: 1,2-Dichloroethane-d4	*88.5*		*70-125*	*%REC*	1	4/7/2014 04:57 PM
Surr: 4-Bromofluorobenzene	*98.5*		*72-125*	*%REC*	1	4/7/2014 04:57 PM
Surr: Dibromofluoromethane	*87.2*		*71-125*	*%REC*	1	4/7/2014 04:57 PM
Surr: Toluene-d8	*93.8*		*75-125*	*%REC*	1	4/7/2014 04:57 PM

Note:

ALS Group USA, Corp.

Date: *21-Apr-14*

Client: Seagull Environmental Technologies, Inc.
Project: Missouri Electric Works
Work Order: HS14031228
Sample ID: MW-16A Filtered
Lab ID: HS14031228-30
Collection Date: 3/26/2014 11:41 AM
Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS BY SW8082A			**SW8082**		Prep Date: **4/3/2014**	Analyst: **SE**
Aroclor 1016	ND		0.500	µg/L	1	4/4/2014 11:05 AM
Aroclor 1221	ND		0.500	µg/L	1	4/4/2014 11:05 AM
Aroclor 1232	ND		0.500	µg/L	1	4/4/2014 11:05 AM
Aroclor 1242	ND		0.500	µg/L	1	4/4/2014 11:05 AM
Aroclor 1248	ND		0.500	µg/L	1	4/4/2014 11:05 AM
Aroclor 1254	ND		0.500	µg/L	1	4/4/2014 11:05 AM
Aroclor 1260	ND		0.500	µg/L	1	4/4/2014 11:05 AM
Surr: Decachlorobiphenyl	*89.3*		*54-140*	*%REC*	1	4/4/2014 11:05 AM
Surr: Tetrachloro-m-xylene	*85.7*		*53-137*	*%REC*	1	4/4/2014 11:05 AM

Note:

ALS Group USA, Corp.

Date: *21-Apr-14*

Client: Seagull Environmental Technologies, Inc.
Project: Missouri Electric Works
Work Order: HS14031228
Sample ID: MW-16B
Lab ID: HS14031228-31
Collection Date: 3/26/2014 02:15 PM
Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS BY SW8082A			**SW8082**		Prep Date: **4/3/2014**	Analyst: **SE**
Aroclor 1016	ND		0.500	µg/L	1	4/4/2014 11:21 AM
Aroclor 1221	ND		0.500	µg/L	1	4/4/2014 11:21 AM
Aroclor 1232	ND		0.500	µg/L	1	4/4/2014 11:21 AM
Aroclor 1242	ND		0.500	µg/L	1	4/4/2014 11:21 AM
Aroclor 1248	ND		0.500	µg/L	1	4/4/2014 11:21 AM
Aroclor 1254	ND		0.500	µg/L	1	4/4/2014 11:21 AM
Aroclor 1260	ND		0.500	µg/L	1	4/4/2014 11:21 AM
Surr: Decachlorobiphenyl	*94.3*		*54-140*	*%REC*	1	4/4/2014 11:21 AM
Surr: Tetrachloro-m-xylene	*86.7*		*53-137*	*%REC*	1	4/4/2014 11:21 AM
TCL VOLATILES - SW8260C			**SW8260**			Analyst: **AKP**
1,1,1-Trichloroethane	ND		1.0	µg/L	1	4/7/2014 05:22 PM
1,1,2,2-Tetrachloroethane	ND		1.0	µg/L	1	4/7/2014 05:22 PM
1,1,2-Trichlor-1,2,2-trifluoroethane	ND		1.0	µg/L	1	4/7/2014 05:22 PM
1,1,2-Trichloroethane	ND		1.0	µg/L	1	4/7/2014 05:22 PM
1,1-Dichloroethane	**1.5**		**1.0**	**µg/L**	1	4/7/2014 05:22 PM
1,1-Dichloroethene	ND		1.0	µg/L	1	4/7/2014 05:22 PM
1,2,4-Trichlorobenzene	ND		1.0	µg/L	1	4/7/2014 05:22 PM
1,2-Dibromo-3-chloropropane	ND		1.0	µg/L	1	4/7/2014 05:22 PM
1,2-Dibromoethane	ND		1.0	µg/L	1	4/7/2014 05:22 PM
1,2-Dichlorobenzene	ND		1.0	µg/L	1	4/7/2014 05:22 PM
1,2-Dichloroethane	ND		1.0	µg/L	1	4/7/2014 05:22 PM
1,2-Dichloropropane	ND		1.0	µg/L	1	4/7/2014 05:22 PM
1,3-Dichlorobenzene	ND		1.0	µg/L	1	4/7/2014 05:22 PM
1,4-Dichlorobenzene	ND		1.0	µg/L	1	4/7/2014 05:22 PM
2-Butanone	ND		2.0	µg/L	1	4/7/2014 05:22 PM
2-Hexanone	ND		2.0	µg/L	1	4/7/2014 05:22 PM
4-Methyl-2-pentanone	ND		2.0	µg/L	1	4/7/2014 05:22 PM
Acetone	ND		2.0	µg/L	1	4/7/2014 05:22 PM
Benzene	ND		1.0	µg/L	1	4/7/2014 05:22 PM
Bromodichloromethane	ND		1.0	µg/L	1	4/7/2014 05:22 PM
Bromoform	ND		1.0	µg/L	1	4/7/2014 05:22 PM
Bromomethane	ND		1.0	µg/L	1	4/7/2014 05:22 PM
Carbon disulfide	ND		2.0	µg/L	1	4/7/2014 05:22 PM
Carbon tetrachloride	ND		1.0	µg/L	1	4/7/2014 05:22 PM
Chlorobenzene	ND		1.0	µg/L	1	4/7/2014 05:22 PM
Chloroethane	ND		1.0	µg/L	1	4/7/2014 05:22 PM
Chloroform	ND		1.0	µg/L	1	4/7/2014 05:22 PM
Chloromethane	ND		1.0	µg/L	1	4/7/2014 05:22 PM

Note:

ALS Group USA, Corp.

Date: *21-Apr-14*

Client: Seagull Environmental Technologies, Inc.
Project: Missouri Electric Works
Work Order: HS14031228
Sample ID: MW-16B
Lab ID: HS14031228-31
Collection Date: 3/26/2014 02:15 PM
Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
cis-1,2-Dichloroethene	**2.7**		**1.0**	**µg/L**	1	4/7/2014 05:22 PM
cis-1,3-Dichloropropene	ND		1.0	µg/L	1	4/7/2014 05:22 PM
Cyclohexane	ND		1.0	µg/L	1	4/7/2014 05:22 PM
Dibromochloromethane	ND		1.0	µg/L	1	4/7/2014 05:22 PM
Dichlorodifluoromethane	ND		1.0	µg/L	1	4/7/2014 05:22 PM
Dichloromethane	ND		10	µg/L	1	4/7/2014 05:22 PM
Ethylbenzene	ND		1.0	µg/L	1	4/7/2014 05:22 PM
Isopropylbenzene	ND		1.0	µg/L	1	4/7/2014 05:22 PM
m,p-Xylene	ND		2.0	µg/L	1	4/7/2014 05:22 PM
Methyl acetate	ND		1.0	µg/L	1	4/7/2014 05:22 PM
Methyl tert-butyl ether	ND		1.0	µg/L	1	4/7/2014 05:22 PM
Methylcyclohexane	ND		1.0	µg/L	1	4/7/2014 05:22 PM
o-Xylene	ND		1.0	µg/L	1	4/7/2014 05:22 PM
Styrene	ND		1.0	µg/L	1	4/7/2014 05:22 PM
Tetrachloroethene	ND		1.0	µg/L	1	4/7/2014 05:22 PM
Toluene	ND		1.0	µg/L	1	4/7/2014 05:22 PM
trans-1,2-Dichloroethene	ND		1.0	µg/L	1	4/7/2014 05:22 PM
trans-1,3-Dichloropropene	ND		1.0	µg/L	1	4/7/2014 05:22 PM
Trichloroethene	**8.4**		**1.0**	**µg/L**	1	4/7/2014 05:22 PM
Trichlorofluoromethane	ND		1.0	µg/L	1	4/7/2014 05:22 PM
Vinyl chloride	ND		1.0	µg/L	1	4/7/2014 05:22 PM
Xylenes, Total	ND		3.0	µg/L	1	4/7/2014 05:22 PM
Surr: 1,2-Dichloroethane-d4	*87.4*		*70-125*	*%REC*	1	4/7/2014 05:22 PM
Surr: 4-Bromofluorobenzene	*100*		*72-125*	*%REC*	1	4/7/2014 05:22 PM
Surr: Dibromofluoromethane	*89.6*		*71-125*	*%REC*	1	4/7/2014 05:22 PM
Surr: Toluene-d8	*93.4*		*75-125*	*%REC*	1	4/7/2014 05:22 PM

Note:

ALS Group USA, Corp.

Date: *21-Apr-14*

Client: Seagull Environmental Technologies, Inc.
Project: Missouri Electric Works
Work Order: HS14031228
Sample ID: MW-16B Filtered
Lab ID: HS14031228-32
Collection Date: 3/26/2014 02:15 PM
Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS BY SW8082A			**SW8082**		Prep Date: **4/3/2014**	Analyst: **SE**
Aroclor 1016	ND		0.714	µg/L	1	4/4/2014 11:36 AM
Aroclor 1221	ND		0.714	µg/L	1	4/4/2014 11:36 AM
Aroclor 1232	ND		0.714	µg/L	1	4/4/2014 11:36 AM
Aroclor 1242	ND		0.714	µg/L	1	4/4/2014 11:36 AM
Aroclor 1248	ND		0.714	µg/L	1	4/4/2014 11:36 AM
Aroclor 1254	ND		0.714	µg/L	1	4/4/2014 11:36 AM
Aroclor 1260	ND		0.714	µg/L	1	4/4/2014 11:36 AM
Surr: Decachlorobiphenyl	*87.1*		*54-140*	*%REC*	1	4/4/2014 11:36 AM
Surr: Tetrachloro-m-xylene	*81.9*		*53-137*	*%REC*	1	4/4/2014 11:36 AM

Note:

ALS Group USA, Corp.

Date: *21-Apr-14*

Client: Seagull Environmental Technologies, Inc.
Project: Missouri Electric Works
Work Order: HS14031228
Sample ID: MW-16C
Lab ID: HS14031228-33
Collection Date: 3/26/2014 10:17 AM
Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS BY SW8082A			**SW8082**		Prep Date: **4/3/2014**	Analyst: **SE**
Aroclor 1016	ND		0.500	µg/L	1	4/4/2014 11:51 AM
Aroclor 1221	ND		0.500	µg/L	1	4/4/2014 11:51 AM
Aroclor 1232	ND		0.500	µg/L	1	4/4/2014 11:51 AM
Aroclor 1242	ND		0.500	µg/L	1	4/4/2014 11:51 AM
Aroclor 1248	ND		0.500	µg/L	1	4/4/2014 11:51 AM
Aroclor 1254	ND		0.500	µg/L	1	4/4/2014 11:51 AM
Aroclor 1260	ND		0.500	µg/L	1	4/4/2014 11:51 AM
Surr: Decachlorobiphenyl	*101*		*54-140*	*%REC*	1	4/4/2014 11:51 AM
Surr: Tetrachloro-m-xylene	*93.7*		*53-137*	*%REC*	1	4/4/2014 11:51 AM
TCL VOLATILES - SW8260C			**SW8260**			Analyst: **AKP**
1,1,1-Trichloroethane	ND		1.0	µg/L	1	4/7/2014 05:47 PM
1,1,2,2-Tetrachloroethane	ND		1.0	µg/L	1	4/7/2014 05:47 PM
1,1,2-Trichlor-1,2,2-trifluoroethane	ND		1.0	µg/L	1	4/7/2014 05:47 PM
1,1,2-Trichloroethane	ND		1.0	µg/L	1	4/7/2014 05:47 PM
1,1-Dichloroethane	**3.5**		**1.0**	**µg/L**	1	4/7/2014 05:47 PM
1,1-Dichloroethene	ND		1.0	µg/L	1	4/7/2014 05:47 PM
1,2,4-Trichlorobenzene	ND		1.0	µg/L	1	4/7/2014 05:47 PM
1,2-Dibromo-3-chloropropane	ND		1.0	µg/L	1	4/7/2014 05:47 PM
1,2-Dibromoethane	ND		1.0	µg/L	1	4/7/2014 05:47 PM
1,2-Dichlorobenzene	ND		1.0	µg/L	1	4/7/2014 05:47 PM
1,2-Dichloroethane	ND		1.0	µg/L	1	4/7/2014 05:47 PM
1,2-Dichloropropane	ND		1.0	µg/L	1	4/7/2014 05:47 PM
1,3-Dichlorobenzene	**2.2**		**1.0**	**µg/L**	1	4/7/2014 05:47 PM
1,4-Dichlorobenzene	**1.5**		**1.0**	**µg/L**	1	4/7/2014 05:47 PM
2-Butanone	ND		2.0	µg/L	1	4/7/2014 05:47 PM
2-Hexanone	ND		2.0	µg/L	1	4/7/2014 05:47 PM
4-Methyl-2-pentanone	ND		2.0	µg/L	1	4/7/2014 05:47 PM
Acetone	ND		2.0	µg/L	1	4/7/2014 05:47 PM
Benzene	ND		1.0	µg/L	1	4/7/2014 05:47 PM
Bromodichloromethane	ND		1.0	µg/L	1	4/7/2014 05:47 PM
Bromoform	ND		1.0	µg/L	1	4/7/2014 05:47 PM
Bromomethane	ND		1.0	µg/L	1	4/7/2014 05:47 PM
Carbon disulfide	ND		2.0	µg/L	1	4/7/2014 05:47 PM
Carbon tetrachloride	ND		1.0	µg/L	1	4/7/2014 05:47 PM
Chlorobenzene	ND		1.0	µg/L	1	4/7/2014 05:47 PM
Chloroethane	ND		1.0	µg/L	1	4/7/2014 05:47 PM
Chloroform	ND		1.0	µg/L	1	4/7/2014 05:47 PM
Chloromethane	ND		1.0	µg/L	1	4/7/2014 05:47 PM

Note:

ALS Group USA, Corp.

Date: *21-Apr-14*

Client: Seagull Environmental Technologies, Inc.
Project: Missouri Electric Works
Work Order: HS14031228
Sample ID: MW-16C
Lab ID: HS14031228-33
Collection Date: 3/26/2014 10:17 AM
Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
cis-1,2-Dichloroethene	**6.0**		**1.0**	**µg/L**	1	4/7/2014 05:47 PM
cis-1,3-Dichloropropene	ND		1.0	µg/L	1	4/7/2014 05:47 PM
Cyclohexane	ND		1.0	µg/L	1	4/7/2014 05:47 PM
Dibromochloromethane	ND		1.0	µg/L	1	4/7/2014 05:47 PM
Dichlorodifluoromethane	ND		1.0	µg/L	1	4/7/2014 05:47 PM
Dichloromethane	ND		10	µg/L	1	4/7/2014 05:47 PM
Ethylbenzene	ND		1.0	µg/L	1	4/7/2014 05:47 PM
Isopropylbenzene	ND		1.0	µg/L	1	4/7/2014 05:47 PM
m,p-Xylene	ND		2.0	µg/L	1	4/7/2014 05:47 PM
Methyl acetate	ND		1.0	µg/L	1	4/7/2014 05:47 PM
Methyl tert-butyl ether	ND		1.0	µg/L	1	4/7/2014 05:47 PM
Methylcyclohexane	ND		1.0	µg/L	1	4/7/2014 05:47 PM
o-Xylene	ND		1.0	µg/L	1	4/7/2014 05:47 PM
Styrene	ND		1.0	µg/L	1	4/7/2014 05:47 PM
Tetrachloroethene	ND		1.0	µg/L	1	4/7/2014 05:47 PM
Toluene	ND		1.0	µg/L	1	4/7/2014 05:47 PM
trans-1,2-Dichloroethene	ND		1.0	µg/L	1	4/7/2014 05:47 PM
trans-1,3-Dichloropropene	ND		1.0	µg/L	1	4/7/2014 05:47 PM
Trichloroethene	**5.1**		**1.0**	**µg/L**	1	4/7/2014 05:47 PM
Trichlorofluoromethane	ND		1.0	µg/L	1	4/7/2014 05:47 PM
Vinyl chloride	ND		1.0	µg/L	1	4/7/2014 05:47 PM
Xylenes, Total	ND		3.0	µg/L	1	4/7/2014 05:47 PM
Surr: 1,2-Dichloroethane-d4	*89.1*		*70-125*	*%REC*	1	4/7/2014 05:47 PM
Surr: 4-Bromofluorobenzene	*99.5*		*72-125*	*%REC*	1	4/7/2014 05:47 PM
Surr: Dibromofluoromethane	*88.7*		*71-125*	*%REC*	1	4/7/2014 05:47 PM
Surr: Toluene-d8	*94.1*		*75-125*	*%REC*	1	4/7/2014 05:47 PM

Note:

ALS Group USA, Corp.

Date: *21-Apr-14*

Client: Seagull Environmental Technologies, Inc.
Project: Missouri Electric Works
Work Order: HS14031228
Sample ID: MW-16C Filtered
Lab ID: HS14031228-34
Collection Date: 3/26/2014 10:17 AM
Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS BY SW8082A			**SW8082**		Prep Date: **4/3/2014**	Analyst: **SE**
Aroclor 1016	ND		0.588	µg/L	1	4/4/2014 12:06 PM
Aroclor 1221	ND		0.588	µg/L	1	4/4/2014 12:06 PM
Aroclor 1232	ND		0.588	µg/L	1	4/4/2014 12:06 PM
Aroclor 1242	ND		0.588	µg/L	1	4/4/2014 12:06 PM
Aroclor 1248	ND		0.588	µg/L	1	4/4/2014 12:06 PM
Aroclor 1254	ND		0.588	µg/L	1	4/4/2014 12:06 PM
Aroclor 1260	ND		0.588	µg/L	1	4/4/2014 12:06 PM
Surr: Decachlorobiphenyl	*113*		*54-140*	*%REC*	1	4/4/2014 12:06 PM
Surr: Tetrachloro-m-xylene	*103*		*53-137*	*%REC*	1	4/4/2014 12:06 PM

Note:

Work Order: HS14031228
Client: Seagull Environmental Technologies, Inc.
Project: Missouri Electric Works

DATES REPORT

Sample ID	Client Sample ID	Matrix	Collection Date	TCLP Date	Prep Date	Analysis Date
Batch ID: 80310	**Test Name:** PCBs by SW8082A					
HS14031228-15	Equipment Rinsate	Water	3/27/2014 11:15:00 AM		4/3/2014 03:14 PM	4/3/2014 09:39 PM
HS14031228-16	Equipment Rinsate - Filtered				4/3/2014 03:14 PM	4/3/2014 09:54 PM
HS14031228-17	Field Blank		3/27/2014 1:50:00 PM		4/3/2014 03:14 PM	4/3/2014 10:09 PM
HS14031228-19	MW-1		3/27/2014 1:55:00 PM		4/3/2014 03:14 PM	4/3/2014 10:24 PM
HS14031228-20	MW-1 Filtered				4/3/2014 03:14 PM	4/4/2014 12:26 AM
HS14031228-21	MW-12		3/27/2014 12:20:00 PM		4/3/2014 03:14 PM	4/4/2014 12:41 AM
HS14031228-22	MW-12 Filtered				4/3/2014 03:14 PM	4/4/2014 12:56 AM
HS14031228-23	MW-11		3/27/2014 10:00:00 AM		4/3/2014 03:14 PM	4/4/2014 01:11 AM
HS14031228-24	MW-11 Filtered				4/3/2014 03:14 PM	4/4/2014 01:26 AM
HS14031228-25	MW-5		3/26/2014 6:25:00 PM		4/3/2014 03:14 PM	4/4/2014 07:49 AM
HS14031228-26	MW-5 Filtered				4/3/2014 03:14 PM	4/4/2014 08:04 AM
HS14031228-27	MW-3		3/26/2014 4:55:00 PM		4/3/2014 03:14 PM	4/4/2014 08:19 AM
HS14031228-28	MW-3 Filtered				4/3/2014 03:14 PM	4/4/2014 10:05 AM
HS14031228-29	MW-16A		3/26/2014 11:41:00 AM		4/3/2014 03:14 PM	4/4/2014 10:50 AM
HS14031228-30	MW-16A Filtered				4/3/2014 03:14 PM	4/4/2014 11:05 AM
HS14031228-31	MW-16B		3/26/2014 2:15:00 PM		4/3/2014 03:14 PM	4/4/2014 11:21 AM
HS14031228-32	MW-16B Filtered				4/3/2014 03:14 PM	4/4/2014 11:36 AM
HS14031228-33	MW-16C		3/26/2014 10:17:00 AM		4/3/2014 03:14 PM	4/4/2014 11:51 AM
HS14031228-34	MW-16C Filtered				4/3/2014 03:14 PM	4/4/2014 12:06 PM
Batch ID: 80562	**Test Name:** PCBs by SW8082A					
HS14031228-01	UA-01-SS	Soil	3/26/2014 6:06:00 PM		4/10/2014 07:06 AM	4/18/2014 10:33 AM
HS14031228-02	UA-01-6"		3/26/2014 6:08:00 PM		4/10/2014 07:06 AM	4/18/2014 10:48 AM
HS14031228-03	UA-02-SS		3/26/2014 6:16:00 PM		4/10/2014 07:06 AM	4/18/2014 11:03 AM
HS14031228-04	UA-02-6"		3/26/2014 6:18:00 PM		4/10/2014 07:06 AM	4/18/2014 11:18 AM

Work Order: HS14031228
Client: Seagull Environmental Technologies, Inc.
Project: Missouri Electric Works

DATES REPORT

Sample ID	Client Sample ID	Matrix	Collection Date	TCLP Date	Prep Date	Analysis Date
Batch ID: 80563	**Test Name:** PCBs by SW8082A					
HS14031228-05	UA-03-SS	Soil	3/26/2014 6:20:00 PM		4/10/2014 07:33 AM	4/14/2014 11:49 PM
^						
HS14031228-06	UA-03-6"		3/26/2014 6:22:00 PM		4/10/2014 07:33 AM	4/15/2014 03:49 AM
^						
HS14031228-07	UA-04-SS		3/27/2014 9:46:00 AM		4/10/2014 07:33 AM	4/18/2014 09:07 PM
^						
HS14031228-08	UA-04-6"		3/27/2014 9:48:00 AM		4/10/2014 07:33 AM	4/18/2014 09:22 PM
^						
HS14031228-09	UA-05-SS		3/27/2014 9:52:00 AM		4/10/2014 07:33 AM	4/18/2014 09:37 PM
^						
HS14031228-10	UA-05-6"		3/27/2014 9:54:00 AM		4/10/2014 07:33 AM	4/18/2014 09:52 PM
^						
HS14031228-11	UA-06-SS		3/27/2014 10:02:00 AM		4/10/2014 07:33 AM	4/18/2014 10:07 PM
^						
HS14031228-12	UA-06-6"		3/27/2014 10:04:00 AM		4/10/2014 07:33 AM	4/15/2014 05:19 AM
^						
HS14031228-13	UA-07-SS		3/27/2014 10:10:00 AM		4/10/2014 07:33 AM	4/18/2014 10:37 PM
^						
HS14031228-14	UA-07-6"		3/27/2014 10:12:00 AM		4/10/2014 07:33 AM	4/18/2014 10:52 PM
^						
Batch ID: R163848	**Test Name:** TCL Volatiles - SW8260C					
HS14031228-15	Equipment Rinsate	Water	3/27/2014 11:15:00 AM			4/1/2014 12:01 PM
^						
HS14031228-17	Field Blank		3/27/2014 1:50:00 PM			4/1/2014 12:25 PM
^						
HS14031228-18	Trip Blank		3/27/2014 2:00:00 PM			4/1/2014 12:50 PM
^						
Batch ID: R231283	**Test Name:** TCL Volatiles - SW8260C					
HS14031228-27	MW-3	Water	3/26/2014 4:55:00 PM			4/7/2014 11:56 PM
^						
						4/8/2014 01:10 AM

Work Order: HS14031228
Client: Seagull Environmental Technologies, Inc.
Project: Missouri Electric Works

DATES REPORT

Sample ID	Client Sample ID	Matrix	Collection Date	TCLP Date	Prep Date	Analysis Date
Batch ID: R231364	**Test Name:** TCL Volatiles - SW8260C					
HS14031228-19	MW-1	Water	3/27/2014 1:55:00 PM			4/7/2014 03:43 PM
^						
HS14031228-21	MW-12		3/27/2014 12:20:00 PM			4/7/2014 06:11 PM
^						
						4/7/2014 06:36 PM
HS14031228-23	MW-11		3/27/2014 10:00:00 AM			4/7/2014 04:08 PM
^						
HS14031228-25	MW-5		3/26/2014 6:25:00 PM			4/7/2014 04:32 PM
^						
HS14031228-29	MW-16A		3/26/2014 11:41:00 AM			4/7/2014 04:57 PM
^						
HS14031228-31	MW-16B		3/26/2014 2:15:00 PM			4/7/2014 05:22 PM
^						
HS14031228-33	MW-16C		3/26/2014 10:17:00 AM			4/7/2014 05:47 PM
^						

ALS Group USA, Corp.

Date: 21-Apr-14

Client: Seagull Environmental Technologies, Inc.

Work Order: HS14031228

Project: Missouri Electric Works

QC BATCH REPORT

Batch ID: **80310** Instrument ID **ECD_7** Method: **SW8082**

MBLK Sample ID: **PBLKW1-140403-80310** Units: **µg/L** Analysis Date: **4/3/2014 10:39 PM**

Client ID: Run ID: **ECD_7_231319** SeqNo: **2777984** Prep Date: **4/3/2014** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	ND	0.500								
Aroclor 1221	ND	0.500								
Aroclor 1232	ND	0.500								
Aroclor 1242	ND	0.500								
Aroclor 1248	ND	0.500								
Aroclor 1254	ND	0.500								
Aroclor 1260	ND	0.500								
Surr: Decachlorobiphenyl	0.1792	0.0500	*0.2*	*0*	*89.6*	*54-140*	*0*			
Surr: Tetrachloro-m-xylene	0.1666	0.0500	*0.2*	*0*	*83.3*	*53-137*	*0*			

LCS Sample ID: **PLCSW1-140403-80310** Units: **µg/L** Analysis Date: **4/3/2014 10:55 PM**

Client ID: Run ID: **ECD_7_231319** SeqNo: **2777985** Prep Date: **4/3/2014** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	4.548	0.500	5	0	91	54-138				
Aroclor 1260	4.627	0.500	5	0	92.5	57-136				
Surr: Decachlorobiphenyl	0.1912	0.0500	*0.2*	*0*	*95.6*	*54-140*	*0*			
Surr: Tetrachloro-m-xylene	0.1781	0.0500	*0.2*	*0*	*89*	*53-137*	*0*			

LCSD Sample ID: **PLCSDW1-140403-80310** Units: **µg/L** Analysis Date: **4/3/2014 11:10 PM**

Client ID: Run ID: **ECD_7_231319** SeqNo: **2777986** Prep Date: **4/3/2014** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	4.642	0.500	5	0	92.8	54-138	4.548	2.04	20	
Aroclor 1260	4.652	0.500	5	0	93	57-136	4.627	0.54	20	
Surr: Decachlorobiphenyl	0.1915	0.0500	*0.2*	*0*	*95.8*	*54-140*	*0.1912*	*0.188*	*20*	
Surr: Tetrachloro-m-xylene	0.1791	0.0500	*0.2*	*0*	*89.6*	*53-137*	*0.1781*	*0.577*	*20*	

MS Sample ID: **HS14031228-27BMS** Units: **µg/L** Analysis Date: **4/4/2014 08:34 AM**

Client ID: **MW-3** Run ID: **ECD_7_231319** SeqNo: **2777988** Prep Date: **4/3/2014** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	5.562	0.500	5	0	111	54-138				
Aroclor 1260	5.858	0.500	5	0	117	57-136				
Surr: Decachlorobiphenyl	0.2365	0.0500	*0.2*	*0*	*118*	*54-140*	*0*			
Surr: Tetrachloro-m-xylene	0.2122	0.0500	*0.2*	*0*	*106*	*53-137*	*0*			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Seagull Environmental Technologies, Inc.
Work Order: HS14031228
Project: Missouri Electric Works

QC BATCH REPORT

Batch ID: **80310** Instrument ID **ECD_7** Method: **SW8082**

MS Sample ID: **HS14031228-28AMS** Units: **µg/L** Analysis Date: **4/4/2014 10:20 AM**

Client ID: **MW-3 Filtered** Run ID: **ECD_7_231319** SeqNo: **2799999** Prep Date: **4/3/2014** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	5.607	0.500	5	0	112	54-138				
Aroclor 1260	5.639	0.500	5	0	113	57-136				
Surr: Decachlorobiphenyl	0.2206	0.0500	*0.2*	*0*	*110*	*54-140*	*0*			
Surr: Tetrachloro-m-xylene	0.204	0.0500	*0.2*	*0*	*102*	*53-137*	*0*			

MSD Sample ID: **HS14031228-27BMSD** Units: **µg/L** Analysis Date: **4/4/2014 08:49 AM**

Client ID: **MW-3** Run ID: **ECD_7_231319** SeqNo: **2777989** Prep Date: **4/3/2014** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	6.309	0.500	5	0	126	54-138	5.562	12.6	20	
Aroclor 1260	6.658	0.500	5	0	133	57-136	5.858	12.8	20	
Surr: Decachlorobiphenyl	0.2662	0.0500	*0.2*	*0*	*133*	*54-140*	*0.2365*	*11.8*	*20*	
Surr: Tetrachloro-m-xylene	0.2422	0.0500	*0.2*	*0*	*121*	*53-137*	*0.2122*	*13.2*	*20*	

MSD Sample ID: **HS14031228-28AMSD** Units: **µg/L** Analysis Date: **4/4/2014 10:35 AM**

Client ID: **MW-3 Filtered** Run ID: **ECD_7_231319** SeqNo: **2800000** Prep Date: **4/3/2014** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	5.687	0.500	5	0	114	54-138	5.607	1.41	20	
Aroclor 1260	5.885	0.500	5	0	118	57-136	5.639	4.27	20	
Surr: Decachlorobiphenyl	0.2298	0.0500	*0.2*	*0*	*115*	*54-140*	*0.2206*	*4.11*	*20*	
Surr: Tetrachloro-m-xylene	0.2104	0.0500	*0.2*	*0*	*105*	*53-137*	*0.204*	*3.1*	*20*	

The following samples were analyzed in this batch:

HS14031228-15B	HS14031228-16A	HS14031228-17B
HS14031228-19B	HS14031228-20A	HS14031228-21B
HS14031228-22A	HS14031228-23B	HS14031228-24A
HS14031228-25B	HS14031228-26A	HS14031228-27B
HS14031228-28A	HS14031228-29B	HS14031228-30A
HS14031228-31B	HS14031228-32A	HS14031228-33B
HS14031228-34A		

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Seagull Environmental Technologies, Inc.
Work Order: HS14031228
Project: Missouri Electric Works

QC BATCH REPORT

Batch ID: **80562** Instrument ID **ECD_7** Method: **SW8082**

MBLK Sample ID: **PBLKS1-140410-80562** Units: **µg/Kg** Analysis Date: **4/14/2014 11:44 AM**

Client ID: Run ID: **ECD_7_232185** SeqNo: **2799943** Prep Date: **4/10/2014** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	ND	17								
Aroclor 1221	ND	17								
Aroclor 1232	ND	17								
Aroclor 1242	ND	17								
Aroclor 1248	ND	17								
Aroclor 1254	ND	17								
Aroclor 1260	ND	17								
Surr: Decachlorobiphenyl	8.404	1.6	*6.667*	*0*	*126*	*54-143*	*0*			
Surr: Tetrachloro-m-xylene	6.925	1.6	*6.667*	*0*	*104*	*55-137*	*0*			

LCS Sample ID: **PLCSS1-140410-80562** Units: **µg/Kg** Analysis Date: **4/14/2014 11:59 AM**

Client ID: Run ID: **ECD_7_232185** SeqNo: **2799944** Prep Date: **4/10/2014** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	192.6	17	166.7	0	116	53-135				
Aroclor 1260	204.7	17	166.7	0	123	54-137				
Surr: Decachlorobiphenyl	8.404	1.6	*6.667*	*0*	*126*	*54-143*	*0*			
Surr: Tetrachloro-m-xylene	6.983	1.6	*6.667*	*0*	*105*	*55-137*	*0*			

MS Sample ID: **HS14031227-01AMS** Units: **µg/Kg** Analysis Date: **4/14/2014 09:58 AM**

Client ID: Run ID: **ECD_7_232185** SeqNo: **2799939** Prep Date: **4/10/2014** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	167.1	17	166	0	101	53-135				
Aroclor 1260	1049	17	166	934.3	68.9	54-137				EO
Surr: Decachlorobiphenyl	7.567	1.6	*6.64*	*0*	*114*	*54-143*	*0*			
Surr: Tetrachloro-m-xylene	5.274	1.6	*6.64*	*0*	*79.4*	*55-137*	*0*			

MSD Sample ID: **HS14031227-01AMSD** Units: **µg/Kg** Analysis Date: **4/14/2014 10:13 AM**

Client ID: Run ID: **ECD_7_232185** SeqNo: **2799940** Prep Date: **4/10/2014** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	171.5	17	166	0	103	53-135	167.1	2.62	30	
Aroclor 1260	1086	17	166	934.3	91.1	54-137	1049	3.45	30	EO
Surr: Decachlorobiphenyl	7.58	1.6	*6.64*	*0*	*114*	*54-143*	*7.567*	*0.171*	*30*	
Surr: Tetrachloro-m-xylene	5.505	1.6	*6.64*	*0*	*82.9*	*55-137*	*5.274*	*4.28*	*30*	

The following samples were analyzed in this batch: HS14031228-01A HS14031228-02A HS14031228-03A HS14031228-04A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Seagull Environmental Technologies, Inc.
Work Order: HS14031228
Project: Missouri Electric Works

QC BATCH REPORT

Batch ID: **80563** Instrument ID **ECD_7** Method: **SW8082**

MBLK Sample ID: **PBLKS2-140410-80563** Units: **µg/Kg** Analysis Date: **4/15/2014 03:19 AM**
Client ID: Run ID: **ECD_7_232186** SeqNo: **2800008** Prep Date: **4/10/2014** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	ND	17								
Aroclor 1221	ND	17								
Aroclor 1232	ND	17								
Aroclor 1242	ND	17								
Aroclor 1248	ND	17								
Aroclor 1254	ND	17								
Aroclor 1260	ND	17								
Surr: Decachlorobiphenyl	8.029	1.6	*6.667*	*0*	*120*	*54-143*	*0*			
Surr: Tetrachloro-m-xylene	6.138	1.6	*6.667*	*0*	*92.1*	*55-137*	*0*			

LCS Sample ID: **PLCSS2-140410-80563** Units: **µg/Kg** Analysis Date: **4/15/2014 03:34 AM**
Client ID: Run ID: **ECD_7_232186** SeqNo: **2800009** Prep Date: **4/10/2014** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	192.9	17	166.7	0	116	53-135				
Aroclor 1260	212.7	17	166.7	0	128	54-137				
Surr: Decachlorobiphenyl	9.048	1.6	*6.667*	*0*	*136*	*54-143*	*0*			
Surr: Tetrachloro-m-xylene	6.979	1.6	*6.667*	*0*	*105*	*55-137*	*0*			

MS Sample ID: **HS14040157-01BMS** Units: **µg/Kg** Analysis Date: **4/15/2014 07:20 AM**
Client ID: Run ID: **ECD_7_232186** SeqNo: **2800012** Prep Date: **4/10/2014** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	171.3	17	166.3	0	103	53-135				
Aroclor 1260	191.7	17	166.3	0	115	54-137				
Surr: Decachlorobiphenyl	7.988	1.6	*6.649*	*0*	*120*	*54-143*	*0*			
Surr: Tetrachloro-m-xylene	6.066	1.6	*6.649*	*0*	*91.2*	*55-137*	*0*			

MSD Sample ID: **HS14040157-01BMSD** Units: **µg/Kg** Analysis Date: **4/15/2014 07:35 AM**
Client ID: Run ID: **ECD_7_232186** SeqNo: **2800013** Prep Date: **4/10/2014** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	174.7	17	166.3	0	105	53-135	171.3	1.98	30	
Aroclor 1260	191.8	17	166.3	0	115	54-137	191.7	0.0803	30	
Surr: Decachlorobiphenyl	7.798	1.6	*6.649*	*0*	*117*	*54-143*	*7.988*	*2.41*	*30*	
Surr: Tetrachloro-m-xylene	6.082	1.6	*6.649*	*0*	*91.5*	*55-137*	*6.066*	*0.263*	*30*	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Seagull Environmental Technologies, Inc.
Work Order: HS14031228
Project: Missouri Electric Works

QC BATCH REPORT

Batch ID: **80563** Instrument ID **ECD_7** Method: **SW8082**

The following samples were analyzed in this batch:

HS14031228-05A	HS14031228-06A	HS14031228-07A
HS14031228-08A	HS14031228-09A	HS14031228-10A
HS14031228-11A	HS14031228-12A	HS14031228-13A
HS14031228-14A		

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Seagull Environmental Technologies, Inc.
Work Order: HS14031228
Project: Missouri Electric Works

QC BATCH REPORT

Batch ID: **R163848** Instrument ID **VOA4** Method: **SW8260**

MBLK Sample ID: **VBLKW-140401-R163848** Units: **µg/L** Analysis Date: **4/1/2014 11:36 AM**

Client ID: Run ID: **VOA4_163848** SeqNo: **2770442** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	ND	1.0								
1,1,2,2-Tetrachloroethane	ND	1.0								
1,1,2-Trichlor-1,2,2-trifluoroethane	ND	1.0								
1,1,2-Trichloroethane	ND	1.0								
1,1-Dichloroethane	ND	1.0								
1,1-Dichloroethene	ND	1.0								
1,2,4-Trichlorobenzene	ND	1.0								
1,2-Dibromo-3-chloropropane	ND	1.0								
1,2-Dibromoethane	ND	1.0								
1,2-Dichlorobenzene	ND	1.0								
1,2-Dichloroethane	ND	1.0								
1,2-Dichloropropane	ND	1.0								
1,3-Dichlorobenzene	ND	1.0								
1,4-Dichlorobenzene	ND	1.0								
2-Butanone	ND	2.0								
2-Hexanone	ND	2.0								
4-Methyl-2-pentanone	ND	2.0								
Acetone	ND	2.0								
Benzene	ND	1.0								
Bromodichloromethane	ND	1.0								
Bromoform	ND	1.0								
Bromomethane	ND	1.0								
Carbon disulfide	ND	2.0								
Carbon tetrachloride	ND	1.0								
Chlorobenzene	ND	1.0								
Chloroethane	ND	1.0								
Chloroform	ND	1.0								
Chloromethane	ND	1.0								
cis-1,2-Dichloroethene	ND	1.0								
cis-1,3-Dichloropropene	ND	1.0								
Cyclohexane	ND	1.0								
Dibromochloromethane	ND	1.0								
Dichlorodifluoromethane	ND	1.0								
Dichloromethane	ND	2.0								
Ethylbenzene	ND	1.0								
Isopropylbenzene	ND	1.0								
m,p-Xylene	ND	2.0								
Methyl acetate	ND	1.0								

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

QC BATCH REPORT

Batch ID: **R163848** Instrument ID **VOA4** Method: **SW8260**

Methyl tert-butyl ether	ND	1.0					
Methylcyclohexane	ND	1.0					
o-Xylene	ND	1.0					
Styrene	ND	1.0					
Tetrachloroethene	ND	1.0					
Toluene	ND	1.0					
trans-1,2-Dichloroethene	ND	1.0					
trans-1,3-Dichloropropene	ND	1.0					
Trichloroethene	ND	1.0					
Trichlorofluoromethane	ND	1.0					
Vinyl chloride	ND	1.0					
Xylenes, Total	ND	3.0					
Surr: 1,2-Dichloroethane-d4	44.7	1.0	*50*	*0*	*89.4*	*71-125*	*0*
Surr: 4-Bromofluorobenzene	49.57	1.0	*50*	*0*	*99.1*	*70-125*	*0*
Surr: Dibromofluoromethane	43.94	1.0	*50*	*0*	*87.9*	*74-125*	*0*
Surr: Toluene-d8	46.23	1.0	*50*	*0*	*92.5*	*75-125*	*0*

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Seagull Environmental Technologies, Inc.
Work Order: HS14031228
Project: Missouri Electric Works

QC BATCH REPORT

Batch ID: **R163848** Instrument ID **VOA4** Method: **SW8260**

LCS Sample ID: **VLCSW-140401-R163848** Units: **µg/L** Analysis Date: **4/1/2014 10:47 AM**

Client ID: Run ID: **VOA4_163848** SeqNo: **2766936** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	51.06	1.0	50	0	102	75-130				
1,1,2,2-Tetrachloroethane	46.58	1.0	50	0	93.2	74-123				
1,1,2-Trichlor-1,2,2-trifluoroethane	51.32	1.0	50	0	103	70-130				
1,1,2-Trichloroethane	46.89	1.0	50	0	93.8	80-120				
1,1-Dichloroethane	48.31	1.0	50	0	96.6	80-120				
1,1-Dichloroethene	53.4	1.0	50	0	107	75-130				
1,2,4-Trichlorobenzene	54.85	1.0	50	0	110	77-120				
1,2-Dibromo-3-chloropropane	43.22	1.0	50	0	86.4	68-120				
1,2-Dibromoethane	53.55	1.0	50	0	107	80-120				
1,2-Dichlorobenzene	49.77	1.0	50	0	99.5	80-120				
1,2-Dichloroethane	51.97	1.0	50	0	104	79-120				
1,2-Dichloropropane	50.2	1.0	50	0	100	80-120				
1,3-Dichlorobenzene	49.27	1.0	50	0	98.5	80-120				
1,4-Dichlorobenzene	48.28	1.0	50	0	96.6	80-120				
2-Butanone	93.4	2.0	100	0	93.4	60-140				
2-Hexanone	101.1	2.0	100	0	101	60-131				
4-Methyl-2-pentanone	98.9	2.0	100	0	98.9	60-135				
Acetone	88.4	2.0	100	0	88.4	60-140				
Benzene	48.93	1.0	50	0	97.9	80-120				
Bromodichloromethane	53.47	1.0	50	0	107	75-120				
Bromoform	50.59	1.0	50	0	101	70-130				
Bromomethane	50.29	1.0	50	0	101	63-139				
Carbon disulfide	100.6	2.0	100	0	101	75-125				
Carbon tetrachloride	55.48	1.0	50	0	111	75-125				
Chlorobenzene	48.68	1.0	50	0	97.4	80-120				
Chloroethane	48.99	1.0	50	0	98	70-130				
Chloroform	48.23	1.0	50	0	96.5	70-130				
Chloromethane	42.88	1.0	50	0	85.8	65-130				
cis-1,2-Dichloroethene	46.49	1.0	50	0	93	75-125				
cis-1,3-Dichloropropene	49.08	1.0	50	0	98.2	79-125				
Cyclohexane	46.33	1.0	50	0	92.7	75-125				
Dibromochloromethane	55.57	1.0	50	0	111	70-130				
Dichlorodifluoromethane	49.21	1.0	50	0	98.4	60-140				
Dichloromethane	44.16	2.0	50	0	88.3	65-133				
Ethylbenzene	49.88	1.0	50	0	99.8	80-120				
Isopropylbenzene	52.83	1.0	50	0	106	80-120				
m,p-Xylene	99.76	2.0	100	0	99.8	80-120				
Methyl acetate	44.5	1.0	50	0	89	76-122				

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

QC BATCH REPORT

Batch ID: **R163848** Instrument ID **VOA4** Method: **SW8260**

Methyl tert-butyl ether	51	1.0	50	0	102	70-125	
Methylcyclohexane	49.77	1.0	50	0	99.5	70-122	
o-Xylene	49.47	1.0	50	0	98.9	80-120	
Styrene	50.09	1.0	50	0	100	78-122	
Tetrachloroethene	56.71	1.0	50	0	113	75-130	
Toluene	48.96	1.0	50	0	97.9	80-121	
trans-1,2-Dichloroethene	47.2	1.0	50	0	94.4	75-125	
trans-1,3-Dichloropropene	49.57	1.0	50	0	99.1	76-125	
Trichloroethene	51.84	1.0	50	0	104	75-125	
Trichlorofluoromethane	52.4	1.0	50	0	105	72-132	
Vinyl chloride	52.32	1.0	50	0	105	70-135	
Xylenes, Total	149.2	3.0	150	0	99.5	80-124	
Surr: 1,2-Dichloroethane-d4	43.03	1.0	*50*	*0*	*86.1*	*71-125*	*0*
Surr: 4-Bromofluorobenzene	49.9	1.0	*50*	*0*	*99.8*	*70-125*	*0*
Surr: Dibromofluoromethane	44.51	1.0	*50*	*0*	*89*	*74-125*	*0*
Surr: Toluene-d8	46.67	1.0	*50*	*0*	*93.3*	*75-125*	*0*

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Seagull Environmental Technologies, Inc.
Work Order: HS14031228
Project: Missouri Electric Works

QC BATCH REPORT

Batch ID: **R163848** Instrument ID **VOA4** Method: **SW8260**

MS Sample ID: **HS14030969-02AMS** Units: **µg/L** Analysis Date: **4/1/2014 02:07 PM**

Client ID: Run ID: **VOA4_163848** SeqNo: **2771042** Prep Date: DF: **50**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	2500	50	2500	0	100	75-130				
1,1,2,2-Tetrachloroethane	2289	50	2500	0	91.6	74-123				
1,1,2-Trichlor-1,2,2-trifluoroethane	4763	50	2500	2559	88.2	70-130				
1,1,2-Trichloroethane	2330	50	2500	0	93.2	80-120				
1,1-Dichloroethane	2382	50	2500	0	95.3	80-120				
1,1-Dichloroethene	2558	50	2500	37.62	101	75-130				
1,2,4-Trichlorobenzene	2575	50	2500	0	103	77-120				
1,2-Dibromo-3-chloropropane	2126	50	2500	0	85	68-120				
1,2-Dibromoethane	2600	50	2500	0	104	80-120				
1,2-Dichlorobenzene	2429	50	2500	0	97.2	80-120				
1,2-Dichloroethane	2540	50	2500	0	102	79-120				
1,2-Dichloropropane	2407	50	2500	0	96.3	80-120				
1,3-Dichlorobenzene	2423	50	2500	0	96.9	80-120				
1,4-Dichlorobenzene	2345	50	2500	0	93.8	80-120				
2-Butanone	4545	100	5000	0	90.9	60-140				
2-Hexanone	4953	100	5000	0	99.1	60-131				
4-Methyl-2-pentanone	4928	100	5000	0	98.6	60-135				
Acetone	4377	100	5000	0	87.5	60-140				
Benzene	2321	50	2500	0	92.8	80-120				
Bromodichloromethane	2634	50	2500	0	105	75-120				
Bromoform	2488	50	2500	0	99.5	70-130				
Bromomethane	2065	50	2500	0	82.6	63-139				
Carbon disulfide	4597	100	5000	0	91.9	75-125				
Carbon tetrachloride	2685	50	2500	0	107	79-120				
Chlorobenzene	2409	50	2500	0	96.4	80-120				
Chloroethane	2282	50	2500	0	91.3	70-130				
Chloroform	2366	50	2500	0	94.7	70-130				
Chloromethane	1893	50	2500	0	75.7	65-130				
cis-1,2-Dichloroethene	2304	50	2500	0	92.2	75-125				
cis-1,3-Dichloropropene	2310	50	2500	0	92.4	79-125				
Cyclohexane	2270	50	2500	0	90.8	75-125				
Dibromochloromethane	2700	50	2500	0	108	70-130				
Dichlorodifluoromethane	1496	50	2500	0	59.8	60-140				S
Dichloromethane	2241	100	2500	152.8	83.5	65-133				
Ethylbenzene	2503	50	2500	0	100	80-120				
Isopropylbenzene	2672	50	2500	0	107	80-120				
m,p-Xylene	4925	100	5000	0	98.5	80-120				
Methyl acetate	2206	50	2500	0	88.2	76-122				

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

QC BATCH REPORT

Batch ID: **R163848** Instrument ID **VOA4** Method: **SW8260**

Methyl tert-butyl ether	2488	50	2500	0	99.5	70-125	
Methylcyclohexane	2371	50	2500	0	94.8	70-122	
o-Xylene	2417	50	2500	0	96.7	80-120	
Styrene	2468	50	2500	0	98.7	78-122	
Tetrachloroethene	2906	50	2500	56.86	114	75-130	
Toluene	2416	50	2500	0	96.6	80-121	
trans-1,2-Dichloroethene	2272	50	2500	0	90.9	75-125	
trans-1,3-Dichloropropene	2335	50	2500	0	93.4	76-125	
Trichloroethene	2521	50	2500	44.27	99.1	75-125	
Trichlorofluoromethane	2561	50	2500	95.3	98.6	72-132	
Vinyl chloride	2275	50	2500	0	91	70-135	
Xylenes, Total	7342	150	7500	0	97.9	80-124	
Surr: 1,2-Dichloroethane-d4	2207	50	*2500*	*0*	*88.3*	*71-125*	*0*
Surr: 4-Bromofluorobenzene	2497	50	*2500*	*0*	*99.9*	*70-125*	*0*
Surr: Dibromofluoromethane	2240	50	*2500*	*0*	*89.6*	*74-125*	*0*
Surr: Toluene-d8	2342	50	*2500*	*0*	*93.7*	*75-125*	*0*

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Seagull Environmental Technologies, Inc.
Work Order: HS14031228
Project: Missouri Electric Works

QC BATCH REPORT

Batch ID: **R163848** Instrument ID **VOA4** Method: **SW8260**

MSD Sample ID: **HS14030969-02AMSD** Units: **µg/L** Analysis Date: **4/1/2014 02:32 PM**

Client ID: Run ID: **VOA4_163848** SeqNo: **2771043** Prep Date: DF: **50**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	2374	50	2500	0	95	75-130	2500	5.19	20	
1,1,2,2-Tetrachloroethane	2267	50	2500	0	90.7	74-123	2289	0.989	20	
1,1,2-Trichlor-1,2,2-trifluoroethane	4557	50	2500	2559	79.9	70-130	4763	4.41	20	
1,1,2-Trichloroethane	2362	50	2500	0	94.5	80-120	2330	1.38	20	
1,1-Dichloroethane	2247	50	2500	0	89.9	80-120	2382	5.83	20	
1,1-Dichloroethene	2481	50	2500	37.62	97.7	75-130	2558	3.08	20	
1,2,4-Trichlorobenzene	2545	50	2500	0	102	77-120	2575	1.17	20	
1,2-Dibromo-3-chloropropane	2200	50	2500	0	88	68-120	2126	3.42	20	
1,2-Dibromoethane	2674	50	2500	0	107	80-120	2600	2.83	20	
1,2-Dichlorobenzene	2390	50	2500	0	95.6	80-120	2429	1.6	20	
1,2-Dichloroethane	2549	50	2500	0	102	79-120	2540	0.348	20	
1,2-Dichloropropane	2371	50	2500	0	94.8	80-120	2407	1.51	20	
1,3-Dichlorobenzene	2344	50	2500	0	93.8	80-120	2423	3.32	20	
1,4-Dichlorobenzene	2290	50	2500	0	91.6	80-120	2345	2.4	20	
2-Butanone	4648	100	5000	0	93	60-140	4545	2.25	20	
2-Hexanone	5240	100	5000	0	105	60-131	4953	5.62	20	
4-Methyl-2-pentanone	5104	100	5000	0	102	60-135	4928	3.51	20	
Acetone	4539	100	5000	0	90.8	60-140	4377	3.63	20	
Benzene	2272	50	2500	0	90.9	80-120	2321	2.15	20	
Bromodichloromethane	2656	50	2500	0	106	75-120	2634	0.843	20	
Bromoform	2510	50	2500	0	100	70-130	2488	0.856	20	
Bromomethane	2121	50	2500	0	84.8	63-139	2065	2.66	20	
Carbon disulfide	4373	100	5000	0	87.5	75-125	4597	5	20	
Carbon tetrachloride	2620	50	2500	0	105	75-125	2685	2.46	20	
Chlorobenzene	2372	50	2500	0	94.9	80-120	2409	1.57	20	
Chloroethane	2211	50	2500	0	88.4	70-130	2282	3.17	20	
Chloroform	2230	50	2500	0	89.2	70-130	2366	5.95	20	
Chloromethane	1795	50	2500	0	71.8	65-130	1893	5.31	20	
cis-1,2-Dichloroethene	2184	50	2500	0	87.4	75-125	2304	5.36	20	
cis-1,3-Dichloropropene	2350	50	2500	0	94	79-125	2310	1.7	20	
Cyclohexane	2151	50	2500	0	86	75-125	2270	5.4	20	
Dibromochloromethane	2740	50	2500	0	110	70-130	2700	1.47	20	
Dichlorodifluoromethane	1386	50	2500	0	55.4	60-140	1496	7.64	20	S
Dichloromethane	2189	100	2500	152.8	81.5	65-133	2241	2.35	20	
Ethylbenzene	2467	50	2500	0	98.7	80-120	2503	1.46	20	
Isopropylbenzene	2617	50	2500	0	105	80-120	2672	2.09	20	
m,p-Xylene	4891	100	5000	0	97.8	80-120	4925	0.679	20	
Methyl acetate	2219	50	2500	0	88.8	76-122	2206	0.578	20	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Seagull Environmental Technologies, Inc.
Work Order: HS14031228
Project: Missouri Electric Works

QC BATCH REPORT

Batch ID: **R163848** Instrument ID **VOA4** Method: **SW8260**

Methyl tert-butyl ether	2462	50	2500	0	98.5	70-125	2488	1.06	20
Methylcyclohexane	2322	50	2500	0	92.9	70-122	2371	2.07	20
o-Xylene	2385	50	2500	0	95.4	80-120	2417	1.34	20
Styrene	2463	50	2500	0	98.5	78-122	2468	0.196	20
Tetrachloroethene	2843	50	2500	56.86	111	75-130	2906	2.18	20
Toluene	2386	50	2500	0	95.4	80-121	2416	1.24	20
trans-1,2-Dichloroethene	2128	50	2500	0	85.1	75-125	2272	6.53	20
trans-1,3-Dichloropropene	2393	50	2500	0	95.7	76-125	2335	2.49	20
Trichloroethene	2461	50	2500	44.27	96.7	75-120	2521	2.41	20
Trichlorofluoromethane	2399	50	2500	95.3	92.2	72-132	2561	6.51	20
Vinyl chloride	2114	50	2500	0	84.6	70-135	2275	7.31	20
Xylenes, Total	7277	150	7500	0	97	80-124	7342	0.897	20
Surr: 1,2-Dichloroethane-d4	2152	50	*2500*	*0*	*86.1*	*71-125*	*2207*	*2.49*	*20*
Surr: 4-Bromofluorobenzene	2531	50	*2500*	*0*	*101*	*70-125*	*2497*	*1.36*	*20*
Surr: Dibromofluoromethane	2159	50	*2500*	*0*	*86.4*	*74-125*	*2240*	*3.67*	*20*
Surr: Toluene-d8	2362	50	*2500*	*0*	*94.5*	*75-125*	*2342*	*0.85*	*20*

The following samples were analyzed in this batch: HS14031228-15A HS14031228-17A HS14031228-18A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Seagull Environmental Technologies, Inc.
Work Order: HS14031228
Project: Missouri Electric Works

QC BATCH REPORT

Batch ID: **R231283** Instrument ID **VOA4** Method: **SW8260**

MBLK Sample ID: **VBLKW-140407-R231283** Units: **µg/L** Analysis Date: **4/7/2014 10:42 PM**

Client ID: Run ID: **VOA4_231283** SeqNo: **2779316** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	ND	1.0								
1,1,2,2-Tetrachloroethane	ND	1.0								
1,1,2-Trichlor-1,2,2-trifluoroethane	ND	1.0								
1,1,2-Trichloroethane	ND	1.0								
1,1-Dichloroethane	ND	1.0								
1,1-Dichloroethene	ND	1.0								
1,2,4-Trichlorobenzene	ND	1.0								
1,2-Dibromo-3-chloropropane	ND	1.0								
1,2-Dibromoethane	ND	1.0								
1,2-Dichlorobenzene	ND	1.0								
1,2-Dichloroethane	ND	1.0								
1,2-Dichloropropane	ND	1.0								
1,3-Dichlorobenzene	ND	1.0								
1,4-Dichlorobenzene	ND	1.0								
2-Butanone	ND	2.0								
2-Hexanone	ND	2.0								
4-Methyl-2-pentanone	ND	2.0								
Acetone	ND	2.0								
Benzene	ND	1.0								
Bromodichloromethane	ND	1.0								
Bromoform	ND	1.0								
Bromomethane	ND	1.0								
Carbon disulfide	ND	2.0								
Carbon tetrachloride	ND	1.0								
Chlorobenzene	ND	1.0								
Chloroethane	ND	1.0								
Chloroform	ND	1.0								
Chloromethane	ND	1.0								
cis-1,2-Dichloroethene	ND	1.0								
cis-1,3-Dichloropropene	ND	1.0								
Cyclohexane	ND	1.0								
Dibromochloromethane	ND	1.0								
Dichlorodifluoromethane	ND	1.0								
Dichloromethane	ND	2.0								
Ethylbenzene	ND	1.0								
Isopropylbenzene	ND	1.0								
m,p-Xylene	ND	2.0								
Methyl acetate	ND	1.0								

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

QC BATCH REPORT

Batch ID: **R231283** Instrument ID **VOA4** Method: **SW8260**

Methyl tert-butyl ether	ND	1.0					
Methylcyclohexane	ND	1.0					
o-Xylene	ND	1.0					
Styrene	ND	1.0					
Tetrachloroethene	ND	1.0					
Toluene	ND	1.0					
trans-1,2-Dichloroethene	ND	1.0					
trans-1,3-Dichloropropene	ND	1.0					
Trichloroethene	ND	1.0					
Trichlorofluoromethane	ND	1.0					
Vinyl chloride	ND	1.0					
Xylenes, Total	ND	3.0					
Surr: 1,2-Dichloroethane-d4	44.79	1.0	*50*	*0*	*89.6*	*71-125*	*0*
Surr: 4-Bromofluorobenzene	49.1	1.0	*50*	*0*	*98.2*	*70-125*	*0*
Surr: Dibromofluoromethane	45.01	1.0	*50*	*0*	*90*	*74-125*	*0*
Surr: Toluene-d8	46.88	1.0	*50*	*0*	*93.8*	*75-125*	*0*

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Seagull Environmental Technologies, Inc.
Work Order: HS14031228
Project: Missouri Electric Works

QC BATCH REPORT

Batch ID: **R231283** Instrument ID **VOA4** Method: **SW8260**

LCS Sample ID: **VLCSW-140407-R231283** Units: **µg/L** Analysis Date: **4/7/2014 09:53 PM**

Client ID: Run ID: **VOA4_231283** SeqNo: **2779315** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	49.83	1.0	50	0	99.7	75-130				
1,1,2,2-Tetrachloroethane	46.93	1.0	50	0	93.9	74-123				
1,1,2-Trichlor-1,2,2-trifluoroethane	51.57	1.0	50	0	103	70-130				
1,1,2-Trichloroethane	48.41	1.0	50	0	96.8	80-120				
1,1-Dichloroethane	49.19	1.0	50	0	98.4	80-120				
1,1-Dichloroethene	55.23	1.0	50	0	110	75-130				
1,2,4-Trichlorobenzene	50.61	1.0	50	0	101	77-120				
1,2-Dibromo-3-chloropropane	43.86	1.0	50	0	87.7	68-120				
1,2-Dibromoethane	52.78	1.0	50	0	106	80-120				
1,2-Dichlorobenzene	49.6	1.0	50	0	99.2	80-120				
1,2-Dichloroethane	50.86	1.0	50	0	102	79-120				
1,2-Dichloropropane	50.67	1.0	50	0	101	80-120				
1,3-Dichlorobenzene	47.9	1.0	50	0	95.8	80-120				
1,4-Dichlorobenzene	47.4	1.0	50	0	94.8	80-120				
2-Butanone	97.84	2.0	100	0	97.8	60-140				
2-Hexanone	101.2	2.0	100	0	101	60-131				
4-Methyl-2-pentanone	99.67	2.0	100	0	99.7	60-135				
Acetone	98.38	2.0	100	0	98.4	60-140				
Benzene	49.25	1.0	50	0	98.5	80-120				
Bromodichloromethane	54.28	1.0	50	0	109	75-120				
Bromoform	48.74	1.0	50	0	97.5	70-130				
Bromomethane	52.43	1.0	50	0	105	63-139				
Carbon disulfide	100.2	2.0	100	0	100	75-125				
Carbon tetrachloride	53.88	1.0	50	0	108	75-125				
Chlorobenzene	48.41	1.0	50	0	96.8	80-120				
Chloroethane	51.33	1.0	50	0	103	70-130				
Chloroform	47.85	1.0	50	0	95.7	70-130				
Chloromethane	41.4	1.0	50	0	82.8	65-130				
cis-1,2-Dichloroethene	48.35	1.0	50	0	96.7	75-125				
cis-1,3-Dichloropropene	48.7	1.0	50	0	97.4	79-125				
Cyclohexane	46.96	1.0	50	0	93.9	75-125				
Dibromochloromethane	54.19	1.0	50	0	108	70-130				
Dichlorodifluoromethane	46.92	1.0	50	0	93.8	60-140				
Dichloromethane	45.72	2.0	50	0	91.4	65-133				
Ethylbenzene	49.89	1.0	50	0	99.8	80-120				
Isopropylbenzene	52.78	1.0	50	0	106	80-120				
m,p-Xylene	99.27	2.0	100	0	99.3	80-120				
Methyl acetate	45.94	1.0	50	0	91.9	76-122				

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

QC BATCH REPORT

Batch ID: **R231283** Instrument ID **VOA4** Method: **SW8260**

Methyl tert-butyl ether	52.28	1.0	50	0	105	70-125	
Methylcyclohexane	49.71	1.0	50	0	99.4	70-122	
o-Xylene	49.07	1.0	50	0	98.1	80-120	
Styrene	50.05	1.0	50	0	100	78-122	
Tetrachloroethene	54.6	1.0	50	0	109	75-130	
Toluene	49	1.0	50	0	98	80-121	
trans-1,2-Dichloroethene	47.84	1.0	50	0	95.7	75-125	
trans-1,3-Dichloropropene	48.81	1.0	50	0	97.6	76-125	
Trichloroethene	51.11	1.0	50	0	102	75-125	
Trichlorofluoromethane	52.67	1.0	50	0	105	72-132	
Vinyl chloride	53.63	1.0	50	0	107	70-135	
Xylenes, Total	148.3	3.0	150	0	98.9	80-124	
Surr: 1,2-Dichloroethane-d4	42.76	1.0	*50*	*0*	*85.5*	*71-125*	*0*
Surr: 4-Bromofluorobenzene	49.67	1.0	*50*	*0*	*99.3*	*70-125*	*0*
Surr: Dibromofluoromethane	44.79	1.0	*50*	*0*	*89.6*	*74-125*	*0*
Surr: Toluene-d8	46.55	1.0	*50*	*0*	*93.1*	*75-125*	*0*

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Seagull Environmental Technologies, Inc.
Work Order: HS14031228
Project: Missouri Electric Works

QC BATCH REPORT

Batch ID: **R231283** Instrument ID **VOA4** Method: **SW8260**

MS Sample ID: **HS14031228-27AMS** Units: **µg/L** Analysis Date: **4/8/2014 12:20 AM**

Client ID: **MW-3** Run ID: **VOA4_231283** SeqNo: **2779317** Prep Date: DF: **5**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	253.1	5.0	250	0	101	75-130				
1,1,2,2-Tetrachloroethane	238	5.0	250	0	95.2	74-123				
1,1,2-Trichlor-1,2,2-trifluoroethane	263.8	5.0	250	0	106	70-130				
1,1,2-Trichloroethane	241.8	5.0	250	0	96.7	80-120				
1,1-Dichloroethane	249.5	5.0	250	0	99.8	80-120				
1,1-Dichloroethene	274.2	5.0	250	0	110	75-130				
1,2,4-Trichlorobenzene	247.1	5.0	250	0	98.8	77-120				
1,2-Dibromo-3-chloropropane	211.4	5.0	250	0	84.6	68-120				
1,2-Dibromoethane	263.8	5.0	250	0	106	80-120				
1,2-Dichlorobenzene	243	5.0	250	0	97.2	80-120				
1,2-Dichloroethane	256.2	5.0	250	0	102	79-120				
1,2-Dichloropropane	253.5	5.0	250	0	101	80-120				
1,3-Dichlorobenzene	240.5	5.0	250	3.655	94.7	80-120				
1,4-Dichlorobenzene	239.9	5.0	250	8.541	92.5	80-120				
2-Butanone	490	10	500	0	98	60-140				
2-Hexanone	511.9	10	500	0	102	60-131				
4-Methyl-2-pentanone	500.7	10	500	0	100	60-135				
Acetone	471.7	10	500	8.194	92.7	60-140				
Benzene	249.5	5.0	250	1.56	99.2	80-120				
Bromodichloromethane	269.4	5.0	250	0	108	75-120				
Bromoform	243	5.0	250	0	97.2	70-130				
Bromomethane	225.7	5.0	250	0	90.3	63-139				
Carbon disulfide	506.9	10	500	0	101	75-125				
Carbon tetrachloride	273.5	5.0	250	0	109	79-120				
Chlorobenzene	470.7	5.0	250	231.7	95.6	80-120				
Chloroethane	265.7	5.0	250	0	106	70-130				
Chloroform	241.1	5.0	250	0	96.4	70-130				
Chloromethane	209.8	5.0	250	0	83.9	65-130				
cis-1,2-Dichloroethene	246.2	5.0	250	0	98.5	75-125				
cis-1,3-Dichloropropene	238.9	5.0	250	0	95.6	79-125				
Cyclohexane	247.3	5.0	250	0	98.9	75-125				
Dibromochloromethane	270.5	5.0	250	0	108	70-130				
Dichlorodifluoromethane	215	5.0	250	0	86	60-140				
Dichloromethane	229.4	10	250	0	91.8	65-133				
Ethylbenzene	250.3	5.0	250	0	100	80-120				
Isopropylbenzene	264.4	5.0	250	0	106	80-120				
m,p-Xylene	496.1	10	500	0	99.2	80-120				
Methyl acetate	219.4	5.0	250	0	87.8	76-122				

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

QC BATCH REPORT

Batch ID: **R231283** Instrument ID **VOA4** Method: **SW8260**

Methyl tert-butyl ether	265.9	5.0	250	0	106	70-125	
Methylcyclohexane	251.1	5.0	250	0	100	70-122	
o-Xylene	244.7	5.0	250	0	97.9	80-120	
Styrene	247.4	5.0	250	0	99	78-122	
Tetrachloroethene	277.2	5.0	250	0	111	75-130	
Toluene	246.1	5.0	250	0	98.4	80-121	
trans-1,2-Dichloroethene	245.2	5.0	250	0	98.1	75-125	
trans-1,3-Dichloropropene	239.2	5.0	250	0	95.7	76-125	
Trichloroethene	254.9	5.0	250	0	102	75-125	
Trichlorofluoromethane	266.7	5.0	250	0	107	72-132	
Vinyl chloride	274.1	5.0	250	0	110	70-135	
Xylenes, Total	740.7	15	750	0	98.8	80-124	
Surr: 1,2-Dichloroethane-d4	219.8	5.0	*250*	*0*	*87.9*	*71-125*	*0*
Surr: 4-Bromofluorobenzene	250	5.0	*250*	*0*	*100*	*70-125*	*0*
Surr: Dibromofluoromethane	228.4	5.0	*250*	*0*	*91.4*	*74-125*	*0*
Surr: Toluene-d8	233.7	5.0	*250*	*0*	*93.5*	*75-125*	*0*

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Seagull Environmental Technologies, Inc.
Work Order: HS14031228
Project: Missouri Electric Works

QC BATCH REPORT

Batch ID: **R231283** Instrument ID **VOA4** Method: **SW8260**

MSD Sample ID: **HS14031228-27AMSD** Units: **µg/L** Analysis Date: **4/8/2014 12:45 AM**

Client ID: **MW-3** Run ID: **VOA4_231283** SeqNo: **2779318** Prep Date: DF: **5**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	245.8	5.0	250	0	98.3	75-130	253.1	2.93	20	
1,1,2,2-Tetrachloroethane	241.6	5.0	250	0	96.6	74-123	238	1.49	20	
1,1,2-Trichlor-1,2,2-trifluoroethane	254.1	5.0	250	0	102	70-130	263.8	3.74	20	
1,1,2-Trichloroethane	240.8	5.0	250	0	96.3	80-120	241.8	0.406	20	
1,1-Dichloroethane	241.6	5.0	250	0	96.6	80-120	249.5	3.23	20	
1,1-Dichloroethene	264.4	5.0	250	0	106	75-130	274.2	3.61	20	
1,2,4-Trichlorobenzene	252.5	5.0	250	0	101	77-120	247.1	2.15	20	
1,2-Dibromo-3-chloropropane	219.4	5.0	250	0	87.7	68-120	211.4	3.67	20	
1,2-Dibromoethane	264.8	5.0	250	0	106	80-120	263.8	0.389	20	
1,2-Dichlorobenzene	244.4	5.0	250	0	97.8	80-120	243	0.603	20	
1,2-Dichloroethane	253	5.0	250	0	101	79-120	256.2	1.28	20	
1,2-Dichloropropane	245.4	5.0	250	0	98.1	80-120	253.5	3.27	20	
1,3-Dichlorobenzene	242.2	5.0	250	3.655	95.4	80-120	240.5	0.686	20	
1,4-Dichlorobenzene	242.4	5.0	250	8.541	93.5	80-120	239.9	1.04	20	
2-Butanone	500.2	10	500	0	100	60-140	490	2.06	20	
2-Hexanone	523.4	10	500	0	105	60-131	511.9	2.22	20	
4-Methyl-2-pentanone	503.2	10	500	0	101	60-135	500.7	0.498	20	
Acetone	483.6	10	500	8.194	95.1	60-140	471.7	2.49	20	
Benzene	240.7	5.0	250	1.56	95.7	80-120	249.5	3.58	20	
Bromodichloromethane	260.4	5.0	250	0	104	75-120	269.4	3.4	20	
Bromoform	244.7	5.0	250	0	97.9	70-130	243	0.709	20	
Bromomethane	245.7	5.0	250	0	98.3	63-139	225.7	8.48	20	
Carbon disulfide	494.1	10	500	0	98.8	75-125	506.9	2.54	20	
Carbon tetrachloride	261.5	5.0	250	0	105	75-125	273.5	4.46	20	
Chlorobenzene	466.8	5.0	250	231.7	94	80-120	470.7	0.844	20	
Chloroethane	256.7	5.0	250	0	103	70-130	265.7	3.43	20	
Chloroform	234.6	5.0	250	0	93.8	70-130	241.1	2.72	20	
Chloromethane	194	5.0	250	0	77.6	65-130	209.8	7.79	20	
cis-1,2-Dichloroethene	237.3	5.0	250	0	94.9	75-125	246.2	3.65	20	
cis-1,3-Dichloropropene	238.1	5.0	250	0	95.2	79-125	238.9	0.36	20	
Cyclohexane	237	5.0	250	0	94.8	75-125	247.3	4.26	20	
Dibromochloromethane	273.7	5.0	250	0	109	70-130	270.5	1.19	20	
Dichlorodifluoromethane	210.7	5.0	250	0	84.3	60-140	215	1.98	20	
Dichloromethane	222.8	10	250	0	89.1	65-133	229.4	2.91	20	
Ethylbenzene	247.8	5.0	250	0	99.1	80-120	250.3	1	20	
Isopropylbenzene	260.9	5.0	250	0	104	80-120	264.4	1.31	20	
m,p-Xylene	493.6	10	500	0	98.7	80-120	496.1	0.488	20	
Methyl acetate	228.7	5.0	250	0	91.5	76-122	219.4	4.17	20	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

QC BATCH REPORT

Batch ID: **R231283** Instrument ID **VOA4** Method: **SW8260**

Methyl tert-butyl ether	264.3	5.0	250	0	106	70-125	265.9	0.583	20
Methylcyclohexane	237.5	5.0	250	0	95	70-122	251.1	5.54	20
o-Xylene	241.5	5.0	250	0	96.6	80-120	244.7	1.33	20
Styrene	246.4	5.0	250	0	98.5	78-122	247.4	0.43	20
Tetrachloroethene	272	5.0	250	0	109	75-130	277.2	1.88	20
Toluene	245.2	5.0	250	0	98.1	80-121	246.1	0.351	20
trans-1,2-Dichloroethene	234	5.0	250	0	93.6	75-125	245.2	4.69	20
trans-1,3-Dichloropropene	236.2	5.0	250	0	94.5	76-125	239.2	1.27	20
Trichloroethene	244.9	5.0	250	0	98	75-125	254.9	3.99	20
Trichlorofluoromethane	257.5	5.0	250	0	103	72-132	266.7	3.51	20
Vinyl chloride	259.1	5.0	250	0	104	70-135	274.1	5.64	20
Xylenes, Total	735.1	15	750	0	98	80-124	740.7	0.765	20
Surr: 1,2-Dichloroethane-d4	220.9	5.0	*250*	*0*	*88.3*	*71-125*	*219.8*	*0.49*	*20*
Surr: 4-Bromofluorobenzene	252.3	5.0	*250*	*0*	*101*	*70-125*	*250*	*0.91*	*20*
Surr: Dibromofluoromethane	229	5.0	*250*	*0*	*91.6*	*74-125*	*228.4*	*0.256*	*20*
Surr: Toluene-d8	238.2	5.0	*250*	*0*	*95.3*	*75-125*	*233.7*	*1.88*	*20*

The following samples were analyzed in this batch: HS14031228-27A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Seagull Environmental Technologies, Inc.
Work Order: HS14031228
Project: Missouri Electric Works

QC BATCH REPORT

Batch ID: **R231364** Instrument ID **VOA4** Method: **SW8260**

MBLK Sample ID: **VBLKW-140407-R231364** Units: **µg/L** Analysis Date: **4/7/2014 11:12 AM**

Client ID: Run ID: **VOA4_231364** SeqNo: **2779628** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	ND	1.0								
1,1,2,2-Tetrachloroethane	ND	1.0								
1,1,2-Trichlor-1,2,2-trifluoroethane	ND	1.0								
1,1,2-Trichloroethane	ND	1.0								
1,1-Dichloroethane	ND	1.0								
1,1-Dichloroethene	ND	1.0								
1,2,4-Trichlorobenzene	ND	1.0								
1,2-Dibromo-3-chloropropane	ND	1.0								
1,2-Dibromoethane	ND	1.0								
1,2-Dichlorobenzene	ND	1.0								
1,2-Dichloroethane	ND	1.0								
1,2-Dichloropropane	ND	1.0								
1,3-Dichlorobenzene	ND	1.0								
1,4-Dichlorobenzene	ND	1.0								
2-Butanone	ND	2.0								
2-Hexanone	ND	2.0								
4-Methyl-2-pentanone	ND	2.0								
Acetone	ND	2.0								
Benzene	ND	1.0								
Bromodichloromethane	ND	1.0								
Bromoform	ND	1.0								
Bromomethane	ND	1.0								
Carbon disulfide	ND	2.0								
Carbon tetrachloride	ND	1.0								
Chlorobenzene	ND	1.0								
Chloroethane	ND	1.0								
Chloroform	ND	1.0								
Chloromethane	ND	1.0								
cis-1,2-Dichloroethene	ND	1.0								
cis-1,3-Dichloropropene	ND	1.0								
Cyclohexane	ND	1.0								
Dibromochloromethane	ND	1.0								
Dichlorodifluoromethane	ND	1.0								
Dichloromethane	ND	2.0								
Ethylbenzene	ND	1.0								
Isopropylbenzene	ND	1.0								
m,p-Xylene	ND	2.0								
Methyl acetate	ND	1.0								

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

QC BATCH REPORT

Batch ID: **R231364** Instrument ID **VOA4** Method: **SW8260**

Methyl tert-butyl ether	ND	1.0					
Methylcyclohexane	ND	1.0					
o-Xylene	ND	1.0					
Styrene	ND	1.0					
Tetrachloroethene	ND	1.0					
Toluene	ND	1.0					
trans-1,2-Dichloroethene	ND	1.0					
trans-1,3-Dichloropropene	ND	1.0					
Trichloroethene	ND	1.0					
Trichlorofluoromethane	ND	1.0					
Vinyl chloride	ND	1.0					
Xylenes, Total	ND	3.0					
Surr: 1,2-Dichloroethane-d4	43.37	1.0	*50*	*0*	*86.7*	*71-125*	*0*
Surr: 4-Bromofluorobenzene	49.59	1.0	*50*	*0*	*99.2*	*70-125*	*0*
Surr: Dibromofluoromethane	42.95	1.0	*50*	*0*	*85.9*	*74-125*	*0*
Surr: Toluene-d8	46.53	1.0	*50*	*0*	*93.1*	*75-125*	*0*

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Seagull Environmental Technologies, Inc.
Work Order: HS14031228
Project: Missouri Electric Works

QC BATCH REPORT

Batch ID: **R231364** Instrument ID **VOA4** Method: **SW8260**

LCS Sample ID: **VLCSW-140407-R231364** Units: **µg/L** Analysis Date: **4/7/2014 10:23 AM**

Client ID: Run ID: **VOA4_231364** SeqNo: **2779627** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	50.27	1.0	50	0	101	75-130				
1,1,2,2-Tetrachloroethane	49.25	1.0	50	0	98.5	74-123				
1,1,2-Trichlor-1,2,2-trifluoroethane	52.97	1.0	50	0	106	70-130				
1,1,2-Trichloroethane	48.41	1.0	50	0	96.8	80-120				
1,1-Dichloroethane	49.16	1.0	50	0	98.3	80-120				
1,1-Dichloroethene	55.48	1.0	50	0	111	75-130				
1,2,4-Trichlorobenzene	51.3	1.0	50	0	103	77-120				
1,2-Dibromo-3-chloropropane	46.34	1.0	50	0	92.7	68-120				
1,2-Dibromoethane	54.54	1.0	50	0	109	80-120				
1,2-Dichlorobenzene	50.16	1.0	50	0	100	80-120				
1,2-Dichloroethane	50.54	1.0	50	0	101	79-120				
1,2-Dichloropropane	50.22	1.0	50	0	100	80-120				
1,3-Dichlorobenzene	48.59	1.0	50	0	97.2	80-120				
1,4-Dichlorobenzene	48.25	1.0	50	0	96.5	80-120				
2-Butanone	102.7	2.0	100	0	103	60-140				
2-Hexanone	106.8	2.0	100	0	107	60-131				
4-Methyl-2-pentanone	104.3	2.0	100	0	104	60-135				
Acetone	98.08	2.0	100	0	98.1	60-140				
Benzene	48.64	1.0	50	0	97.3	80-120				
Bromodichloromethane	52.65	1.0	50	0	105	75-120				
Bromoform	50.83	1.0	50	0	102	70-130				
Bromomethane	46.41	1.0	50	0	92.8	63-139				
Carbon disulfide	101.8	2.0	100	0	102	75-125				
Carbon tetrachloride	53.98	1.0	50	0	108	75-125				
Chlorobenzene	48.22	1.0	50	0	96.4	80-120				
Chloroethane	51.99	1.0	50	0	104	70-130				
Chloroform	47.74	1.0	50	0	95.5	70-130				
Chloromethane	41.77	1.0	50	0	83.5	65-130				
cis-1,2-Dichloroethene	48.69	1.0	50	0	97.4	75-125				
cis-1,3-Dichloropropene	50.45	1.0	50	0	101	79-125				
Cyclohexane	47.76	1.0	50	0	95.5	75-125				
Dibromochloromethane	55.57	1.0	50	0	111	70-130				
Dichlorodifluoromethane	49.65	1.0	50	0	99.3	60-140				
Dichloromethane	46.22	2.0	50	0	92.4	65-133				
Ethylbenzene	49.82	1.0	50	0	99.6	80-120				
Isopropylbenzene	52.88	1.0	50	0	106	80-120				
m,p-Xylene	99.18	2.0	100	0	99.2	80-120				
Methyl acetate	46.53	1.0	50	0	93.1	76-122				

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

QC BATCH REPORT

Batch ID: **R231364** Instrument ID **VOA4** Method: **SW8260**

Methyl tert-butyl ether	54.83	1.0	50	0	110	70-125	
Methylcyclohexane	50.71	1.0	50	0	101	70-122	
o-Xylene	48.84	1.0	50	0	97.7	80-120	
Styrene	51.21	1.0	50	0	102	78-122	
Tetrachloroethene	55.87	1.0	50	0	112	75-130	
Toluene	49.4	1.0	50	0	98.8	80-121	
trans-1,2-Dichloroethene	48.49	1.0	50	0	97	75-125	
trans-1,3-Dichloropropene	49.55	1.0	50	0	99.1	76-125	
Trichloroethene	50.95	1.0	50	0	102	75-125	
Trichlorofluoromethane	52.74	1.0	50	0	105	72-132	
Vinyl chloride	53.81	1.0	50	0	108	70-135	
Xylenes, Total	148	3.0	150	0	98.7	80-124	
Surr: 1,2-Dichloroethane-d4	44.15	1.0	*50*	*0*	*88.3*	*71-125*	*0*
Surr: 4-Bromofluorobenzene	51.12	1.0	*50*	*0*	*102*	*70-125*	*0*
Surr: Dibromofluoromethane	45.42	1.0	*50*	*0*	*90.8*	*74-125*	*0*
Surr: Toluene-d8	47.64	1.0	*50*	*0*	*95.3*	*75-125*	*0*

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Seagull Environmental Technologies, Inc.
Work Order: HS14031228
Project: Missouri Electric Works

QC BATCH REPORT

Batch ID: **R231364** Instrument ID **VOA4** Method: **SW8260**

MS Sample ID: **HS14040125-05AMS** Units: **µg/L** Analysis Date: **4/7/2014 12:01 PM**

Client ID: Run ID: **VOA4_231364** SeqNo: **2779630** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	51.5	1.0	50	0	103	75-130				
1,1,2,2-Tetrachloroethane	47.57	1.0	50	0	95.1	74-123				
1,1,2-Trichlor-1,2,2-trifluoroethane	54.73	1.0	50	0	109	70-130				
1,1,2-Trichloroethane	47.09	1.0	50	0	94.2	80-120				
1,1-Dichloroethane	49.22	1.0	50	0	98.4	80-120				
1,1-Dichloroethene	57.48	1.0	50	0	115	75-130				
1,2,4-Trichlorobenzene	47.65	1.0	50	0	95.3	77-120				
1,2-Dibromo-3-chloropropane	44.48	1.0	50	0	89	68-120				
1,2-Dibromoethane	50.85	1.0	50	0	102	80-120				
1,2-Dichlorobenzene	46.66	1.0	50	0	93.3	80-120				
1,2-Dichloroethane	49.49	1.0	50	0	99	79-120				
1,2-Dichloropropane	49.26	1.0	50	0	98.5	80-120				
1,3-Dichlorobenzene	46.04	1.0	50	0	92.1	80-120				
1,4-Dichlorobenzene	45.81	1.0	50	0	91.6	80-120				
2-Butanone	91.62	2.0	100	0	91.6	60-140				
2-Hexanone	100.2	2.0	100	0	100	60-131				
4-Methyl-2-pentanone	98.48	2.0	100	0	98.5	60-135				
Acetone	87.79	2.0	100	0	87.8	60-140				
Benzene	47.76	1.0	50	0	95.5	80-120				
Bromodichloromethane	51.47	1.0	50	0	103	75-120				
Bromoform	48.59	1.0	50	0	97.2	70-130				
Bromomethane	53.15	1.0	50	0	106	63-139				
Carbon disulfide	105	2.0	100	0	105	75-125				
Carbon tetrachloride	55.38	1.0	50	0	111	79-120				
Chlorobenzene	48.35	1.0	50	0	96.7	80-120				
Chloroethane	52.84	1.0	50	0	106	70-130				
Chloroform	46.83	1.0	50	0	93.7	70-130				
Chloromethane	43.67	1.0	50	0	87.3	65-130				
cis-1,2-Dichloroethene	47.65	1.0	50	0	95.3	75-125				
cis-1,3-Dichloropropene	47.47	1.0	50	0	94.9	79-125				
Cyclohexane	48.73	1.0	50	0	97.5	75-125				
Dibromochloromethane	53.92	1.0	50	0	108	70-130				
Dichlorodifluoromethane	47.53	1.0	50	0	95.1	60-140				
Dichloromethane	44.67	2.0	50	0	89.3	65-133				
Ethylbenzene	49.84	1.0	50	0	99.7	80-120				
Isopropylbenzene	50.34	1.0	50	0	101	80-120				
m,p-Xylene	98.83	2.0	100	0	98.8	80-120				
Methyl acetate	44.09	1.0	50	0	88.2	76-122				

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

QC BATCH REPORT

Batch ID: **R231364** Instrument ID **VOA4** Method: **SW8260**

Methyl tert-butyl ether	51.79	1.0	50	0	104	70-125	
Methylcyclohexane	49.47	1.0	50	0	98.9	70-122	
o-Xylene	48.16	1.0	50	0	96.3	80-120	
Styrene	49.49	1.0	50	0	99	78-122	
Tetrachloroethene	55.65	1.0	50	0	111	75-130	
Toluene	49.16	1.0	50	0	98.3	80-121	
trans-1,2-Dichloroethene	48.52	1.0	50	0	97	75-125	
trans-1,3-Dichloropropene	47.5	1.0	50	0	95	76-125	
Trichloroethene	50.87	1.0	50	0	102	75-125	
Trichlorofluoromethane	55.22	1.0	50	0	110	72-132	
Vinyl chloride	55.58	1.0	50	0	111	70-135	
Xylenes, Total	147	3.0	150	0	98	80-124	
Surr: 1,2-Dichloroethane-d4	43.04	1.0	*50*	*0*	*86.1*	*71-125*	*0*
Surr: 4-Bromofluorobenzene	50.58	1.0	*50*	*0*	*101*	*70-125*	*0*
Surr: Dibromofluoromethane	44.77	1.0	*50*	*0*	*89.5*	*74-125*	*0*
Surr: Toluene-d8	46.73	1.0	*50*	*0*	*93.5*	*75-125*	*0*

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Seagull Environmental Technologies, Inc.
Work Order: HS14031228
Project: Missouri Electric Works

QC BATCH REPORT

Batch ID: **R231364** Instrument ID **VOA4** Method: **SW8260**

MSD Sample ID: **HS14040125-05AMSD** Units: **µg/L** Analysis Date: **4/7/2014 12:26 PM**

Client ID: Run ID: **VOA4_231364** SeqNo: **2779631** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	51.61	1.0	50	0	103	75-130	51.5	0.217	20	
1,1,2,2-Tetrachloroethane	47.36	1.0	50	0	94.7	74-123	47.57	0.435	20	
1,1,2-Trichlor-1,2,2-trifluoroethane	55.04	1.0	50	0	110	70-130	54.73	0.554	20	
1,1,2-Trichloroethane	47.61	1.0	50	0	95.2	80-120	47.09	1.1	20	
1,1-Dichloroethane	49.6	1.0	50	0	99.2	80-120	49.22	0.765	20	
1,1-Dichloroethene	55.7	1.0	50	0	111	75-130	57.48	3.15	20	
1,2,4-Trichlorobenzene	52.07	1.0	50	0	104	77-120	47.65	8.87	20	
1,2-Dibromo-3-chloropropane	43.54	1.0	50	0	87.1	68-120	44.48	2.14	20	
1,2-Dibromoethane	51.45	1.0	50	0	103	80-120	50.85	1.16	20	
1,2-Dichlorobenzene	49.38	1.0	50	0	98.8	80-120	46.66	5.67	20	
1,2-Dichloroethane	49.96	1.0	50	0	99.9	79-120	49.49	0.937	20	
1,2-Dichloropropane	50.55	1.0	50	0	101	80-120	49.26	2.59	20	
1,3-Dichlorobenzene	49.47	1.0	50	0	98.9	80-120	46.04	7.18	20	
1,4-Dichlorobenzene	47.93	1.0	50	0	95.9	80-120	45.81	4.52	20	
2-Butanone	91.98	2.0	100	0	92	60-140	91.62	0.398	20	
2-Hexanone	99.99	2.0	100	0	100	60-131	100.2	0.217	20	
4-Methyl-2-pentanone	96.95	2.0	100	0	97	60-135	98.48	1.56	20	
Acetone	89.52	2.0	100	0	89.5	60-140	87.79	1.96	20	
Benzene	49.31	1.0	50	0	98.6	80-120	47.76	3.19	20	
Bromodichloromethane	52.75	1.0	50	0	106	75-120	51.47	2.46	20	
Bromoform	49.18	1.0	50	0	98.4	70-130	48.59	1.21	20	
Bromomethane	52.81	1.0	50	0	106	63-139	53.15	0.657	20	
Carbon disulfide	104.4	2.0	100	0	104	75-125	105	0.542	20	
Carbon tetrachloride	56.72	1.0	50	0	113	75-125	55.38	2.38	20	
Chlorobenzene	48.97	1.0	50	0	97.9	80-120	48.35	1.28	20	
Chloroethane	52.76	1.0	50	0	106	70-130	52.84	0.159	20	
Chloroform	47.27	1.0	50	0	94.5	70-130	46.83	0.945	20	
Chloromethane	43.4	1.0	50	0	86.8	65-130	43.67	0.61	20	
cis-1,2-Dichloroethene	47.69	1.0	50	0	95.4	75-125	47.65	0.0811	20	
cis-1,3-Dichloropropene	49.19	1.0	50	0	98.4	79-125	47.47	3.56	20	
Cyclohexane	51.46	1.0	50	0	103	75-125	48.73	5.44	20	
Dibromochloromethane	54.25	1.0	50	0	109	70-130	53.92	0.619	20	
Dichlorodifluoromethane	46.76	1.0	50	0	93.5	60-140	47.53	1.63	20	
Dichloromethane	45.17	2.0	50	0	90.3	65-133	44.67	1.11	20	
Ethylbenzene	51.81	1.0	50	0	104	80-120	49.84	3.89	20	
Isopropylbenzene	55.6	1.0	50	0	111	80-120	50.34	9.93	20	
m,p-Xylene	101.5	2.0	100	0	102	80-120	98.83	2.71	20	
Methyl acetate	42.88	1.0	50	0	85.8	76-122	44.09	2.8	20	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Seagull Environmental Technologies, Inc.
Work Order: HS14031228
Project: Missouri Electric Works

QC BATCH REPORT

Batch ID: **R231364** Instrument ID **VOA4** Method: **SW8260**

Methyl tert-butyl ether	51.65	1.0	50	0	103	70-125	51.79	0.276	20
Methylcyclohexane	54.2	1.0	50	0	108	70-122	49.47	9.13	20
o-Xylene	49.59	1.0	50	0	99.2	80-120	48.16	2.94	20
Styrene	50.9	1.0	50	0	102	78-122	49.49	2.8	20
Tetrachloroethene	58.53	1.0	50	0	117	75-130	55.65	5.04	20
Toluene	50.67	1.0	50	0	101	80-121	49.16	3.02	20
trans-1,2-Dichloroethene	48.33	1.0	50	0	96.7	75-125	48.52	0.403	20
trans-1,3-Dichloropropene	48.33	1.0	50	0	96.7	76-125	47.5	1.74	20
Trichloroethene	52.35	1.0	50	0	105	75-125	50.87	2.87	20
Trichlorofluoromethane	54.3	1.0	50	0	109	72-132	55.22	1.67	20
Vinyl chloride	55.11	1.0	50	0	110	70-135	55.58	0.852	20
Xylenes, Total	151.1	3.0	150	0	101	80-124	147	2.78	20
Surr: 1,2-Dichloroethane-d4	43.05	1.0	*50*	*0*	*86.1*	*71-125*	*43.04*	*0.0161*	*20*
Surr: 4-Bromofluorobenzene	51.84	1.0	*50*	*0*	*104*	*70-125*	*50.58*	*2.46*	*20*
Surr: Dibromofluoromethane	44.16	1.0	*50*	*0*	*88.3*	*74-125*	*44.77*	*1.37*	*20*
Surr: Toluene-d8	47.86	1.0	*50*	*0*	*95.7*	*75-125*	*46.73*	*2.38*	*20*

The following samples were analyzed in this batch:

HS14031228-19A	HS14031228-21A	HS14031228-23A
HS14031228-25A	HS14031228-29A	HS14031228-31A
HS14031228-33A		

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

ALS Group USA, Corp.

Date: 21-Apr-14

Client: Seagull Environmental Technologies, Inc.
Project: Missouri Electric Works
WorkOrder: **HS14031228**

QUALIFIERS, ACRONYMS, UNITS

Qualifier	Description
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
M	Manually integrated, see raw data for justification
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL

Acronym	Description
DCS	Detectability Check Study
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitaion Limit
SD	Serial Dilution

Units Reported	Description
µg/Kg	Micrograms per Kilogram
µg/L	Micrograms per Liter

ALS Houston

Sample Receipt Checklist

Client Name: **SEAGULL ENVIRONMENTAL TE** Date/Time Received: **29-Mar-14 10:15**

Work Order: **HS14031228** Received by: **BA11**

Checklist completed by Paresh M. Giga (eSignature) 31-Mar-14 (Date) Reviewed by: Bernadette A. Fini (eSignature) 31-Mar-14 (Date)

Matrices: Soil/Water
Carrier name: FedEx

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Temperature(s)/Thermometer(s):	3.9/3.9c,2.5c/2.5c,3.5c/3.5c,4.5c/4.5c,5.6c/5.6c,2.8c/2.8c C/U	IR3	
Cooler(s)/Kit(s):	4375,4143,3156,5649,5922,RED TA		
Date/Time sample(s) sent to storage:			
Water - VOA vials have zero headspace?	Yes ☑	No ☐	No VOA vials submitted ☐
Water - pH acceptable upon receipt?	Yes ☐	No ☐	N/A ☑
pH adjusted?	Yes ☐	No ☐	N/A ☑
pH adjusted by:	-		

Login Notes:

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

CorrectiveAction:

ALS Environmental

Cincinnati, OH +1 513 733 5336 | Fort Collins, CO +1 970 490 1511
Everett, WA +1 425 356 2600 | Holland, MI +1 616 399 6070

Chain of Custody Form

14031228

, WV

SEAGULL ENVIRONMENTAL TECHNOLOGIES, INC.: Seagull Environmental Technologies, Inc.

Page 1 of 3

COC ID: 102624

Project: Missouri Electric Works

ALS Project Manager:

Customer Information		Project Information			
Purchase Order		Project Name	Missouri Electric Works	A	PCB 8082
Work Order		Project Number		B	VOC TCL (8260)
Company Name	Seagull Environmental Technologies, Inc.	Bill To Company	Seagull Environmental Technologies, I	C	
Send Report To	Jeff Pritchard	Invoice Attn	Jeff Pritchard	D	
Address	415 Oak Street	Address	415 Oak Street	E	
				F	
City/State/Zip	Kansas City, MO 64106	City/State/Zip	Kansas City, MO 64106	G	
Phone	(816) 412-1937	Phone	(816) 412-1937	H	
Fax		Fax		I	
e-Mail Address	jpritchard@seagullenvirotech.com	e-Mail Address		J	

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	UA-01-SS	03/26/14	1806	Soil	None	1	X										
2	UA-01-6"	03/26/14	1808			1	X										
3	UA-02-SS	03/26/14	1816			1	X										
4	UA-02-6"	03/26/14	1818			1	X										
5	UA-03-SS	03/26/14	1820			1	X										
6	UA-03-6"	03/26/14	1822			1	X										
7	UA-04-SS	03/27/14	0946			1	X										
8	UA-04-6"	03/27/14	0948			1	X										
9	UA-05-SS	03/27/14	0952			1	X										
10	~~UA-06-SS~~ ~~UA-06-S~~																

Sampler(s) Please Print & Sign: Greg R. Dillon / Cosimo Cervacari

Shipment Method:

Required Turnaround Time: (Check Box) ☑ Std 10 WK Days ☐ 5 WK Days ☐ 2 WK Days ☐ 24 Hour ☐ Other

Results Due Date:

Relinquished by:	Date: 03/28/14	Time: 1500	Received by:	Notes:
Relinquished by:	Date: 3/29/14	Time: 10:15	Received by (Laboratory):	Cooler ID / Cooler Temp.
Logged by (Laboratory):	Date:	Time:	Checked by (Laboratory):	QC Package: (Check One Box Below)

☑ Level II Std QC ☐ TRRP CheckList
☐ Level III Std QC/Raw Data ☐ TRRP Level IV
☐ Level IV SW846/CLP
☐ Other / EDD

Preservative Key: 1-HCl 2-HNO_3 3-H_2SO_4 4-NaOH 5-$Na_2S_2O_3$ 6-$NaHSO_4$ 7-Other 8-4°C 9-5035

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.
2. Unless otherwise agreed in a formal contract, services provided by ALS Environmental are expressly limited to the terms and conditions stated on the reverse.
3. The Chain of Custody is a legal document. All information must be completed accurately.

Copyright 2011 by ALS Environmental.

ALS Environmental

Cincinnati, OH +1 513 733 5336 | Fort Collins, CO +1 970 490 1511 | Houston, TX +1 281 530 5656 | Spring City, PA +1 610 948 4903 | South Charleston, WV +1 304 356 3168
Everett, WA +1 425 356 2600 | Holland, MI +1 616 399 6070 | Middletown, PA +1 717 944 5541 | Salt Lake City, UT +1 801 266 7700 | York, PA +1 717 505 5280

Chain of Custody Form

Page 2 of 3

COC ID: 102622

ALS Project Manager:

ALS Work Order #: 1403 1228

Customer Information		Project Information		Parameter/Method Request for Analysis	
Purchase Order		Project Name	Missouri Electric Works	A	PCB 8082
Work Order		Project Number		B	VOC TCL (8260)
Company Name	Seagull Environmental Technologies, Inc.	Bill To Company	Seagull Environmental Technologies, I	C	
Send Report To	Jeff Pritchard	Invoice Attn	Jeff Pritchard	D	
Address	415 Oak Street	Address	415 Oak Street	E	
				F	
City/State/Zip	Kansas City, MO 64106	City/State/Zip	Kansas City, MO 64106	G	
Phone	(816) 412-1937	Phone	(816) 412-1937	H	
Fax		Fax		I	
e-Mail Address	jpritchard@seagullenvirotech.com	e-Mail Address		J	

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	UA-05-6"	03/27/14	0954	Soil	None	1	X										
2	UA-06-SS		1002			1	X										
3	UA-06-6"		1004			1	X										
4	UA-07-SS		1010			1	X										
5	UA-07-6"		1012			1	X										
6	Equipment Rinsate	3/27/14	1115	Water	None/1	7	X	X									
7	Field Blank	3/27/14	1350	Water	None/1	5	X	X									
8	Trip Blank	3/27/14	1400	Water	1	2		X									
9	MW-1	3/27/14	1355	Water	None/1	6	X	X			*Low Volume for Dissolved PCBs						
10	MW-12	3/27/14	1220	Water	None/1	7	X	X									

Sampler(s) Please Print & Sign: Greg R. Dillon / Cosmo Cinnamini

Shipment Method:

Required Turnaround Time: (Check Box) ☑ Std 10 WK Days ☐ 5 WK Days ☐ Other 2 WK Days ☐ 24 Hour

Results Due Date:

Relinquished by:	Date: 03/28/14	Time: 1500	Received by:	Notes:
Relinquished by:	Date: 3/29/14	Time: 10:15	Received by (Laboratory):	
Logged by (Laboratory):	Date:	Time:	Checked by (Laboratory):	

Cooler ID	Cooler Temp.	QC Package: (Check One Box Below)
		☑ Level II Std QC ☐ TRRP CheckList
		☐ Level III Std QC/Raw Data ☐ TRRP Level IV
		☐ Level IV SW846/CLP
		☐ Other / EDD

Preservative Key: 1-HCl 2-HNO_3 3-H_2SO_4 4-NaOH 5-$Na_2S_2O_3$ 6-$NaHSO_4$ 7-Other 8-4°C 9-5035

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.
2. Unless otherwise agreed in a formal contract, services provided by ALS Environmental are expressly limited to the terms and conditions stated on the reverse.
3. The Chain of Custody is a legal document. All information must be completed accurately.

Copyright 2011 by ALS Environmental.

ALS Environmental

Cincinnati, OH +1 513 733 5336 | Fort Collins, CO +1 970 490 1511 | Houston, TX +1 281 530 5656 | Spring City, PA +1 610 948 4903 | South Charleston, WV +1 304 356 3168
Everett, WA +1 425 356 2600 | Holland, MI +1 616 399 6070 | Middletown, PA +1 717 944 5541 | Salt Lake City, UT +1 801 266 7700 | York, PA +1 717 505 5280

Chain of Custody Form

Page 3 of 3

COC ID: 102617

ALS Project Manager: | ALS Work Order #: 1403122

Customer Information		Project Information		Parameter/Method Request for Analysis	
Purchase Order		Project Name	Missouri Electric Works	A	PCB 8082
Work Order		Project Number		B	VOC TCL (8260)
Company Name	Seagull Environmental Technologies, Inc.	Bill To Company	Seagull Environmental Technologies, I	C	
Send Report To	Jeff Pritchard	Invoice Attn	Jeff Pritchard	D	
Address	415 Oak Street	Address	415 Oak Street	E	
				F	
City/State/Zip	Kansas City, MO 64106	City/State/Zip	Kansas City, MO 64106	G	
Phone	(816) 412-1937	Phone	(816) 412-1937	H	
Fax		Fax		I	
e-Mail Address	jpritchard@seagullenvirotech.com	e-Mail Address		J	

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	MW-11	03/27/14	1000	Water	None/1	7	X	X									
2	MW-5	03/26/14	1825	Water	None/1	7	X	X									
3	MW-3	03/26/14	1655	Water	None/1	10	X	X			Lab QA/QC DBL Volume						
4	MW-16A	03/26/14	1141	Water	None/1	7	X	X									
5	MW-16B	03/26/14	1415	Water	None/1	7	X	X									
6	MW-16C	03/26/14	1017	Water	None/1	4	X	X	X	Low Volume VOCs + PCB Additional Sample was taken later						Total / Dissolved	
7	MW-16C	03/26/14	1242	Water	None/1	2	X		X	Extra Volume if needed for PCBs Total + Dissolved							
8																	
9																	
10																	

03/28/14

Sampler(s) Please Print & Sign	Shipment Method	Required Turnaround Time: (Check Box)	Results Due Date:
Gregg R. Dillon / Cosmo Canacari	FedEx	☑ Std 10 WK Days ☐ 5 WK Days ☐ Other 2 WK Days ☐ 24 Hour	

Relinquished by:	Date:	Time:	Received by:	Notes:
	03/28/14	1500		
Relinquished by:	Date: 3/29/14	Time: 10:15	Received by (Laboratory):	
Logged by (Laboratory):	Date:	Time:	Checked by (Laboratory):	

Cooler ID	Cooler Temp.	QC Package: (Check One Box Below)
		☑ Level II Std QC ☐ TRRP CheckList ☐ Level III Std QC/Raw Data ☐ TRRP Level IV ☐ Level IV SW846/CLP ☐ Other / EDD

Preservative Key: 1-HCl 2-HNO_3 3-H_2SO_4 4-NaOH 5-$Na_2S_2O_3$ 6-$NaHSO_4$ 7-Other 8-4°C 9-5035

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.
2. Unless otherwise agreed in a formal contract, services provided by ALS Environmental are expressly limited to the terms and conditions stated on the reverse.
3. The Chain of Custody is a legal document. All information must be completed accurately.

Copyright 2011 by ALS Environmental.

ALS Environmental
10450 Stancliff Rd., S
Houston, Texas 770
Tel. +1 281
Fax. +1 281 530 58

CUSTODY SEAL
Date: 03/28/14 Time: 1900
Name: Greg Dillon
Company: Seagull
Seal Broken By:
Date:

Do Not Lift Using This Tag
FedEx 2 of 6
MPS# 0681 7949 3504 0234
Mstr# 8042 5199 0886
0215
SATURDAY 9:30A
FIRST OVERNIGHT
XO SGRA
77099
TX-US IAH

CUSTODY SEAL
28/14 Time: 1900
Greg Dillon
Seagull
Seal Broken By:
Date: 3-31-14

ALS Environmental
10450 Stancliff Rd., Suite 210
Houston, Texas 77099
Tel. +1 281 530 5656
Fax. +1 281 530 5887
Date: 03/
Name: Gr
Company:

Do Not Lift Using This Tag
Ex 5 of 6
7949 3504 0267
8042 5199 0886
0215
SATURDAY 9:30A
FIRST OVERNIGHT
) SGRA
77099
TX-US IAH

Do Not Lift Using This Tag
FedEx 6 of 6
MPS# 0681 7949 3504 0278
Mstr# 8042 5199 0886
0215
SATURDAY 9:30A
FIRST OVERNIGHT
XO SGRA
77099
TX-US IAH

*545836 03/28 52201/CC4F/F220

ALS Environmental
10450 Stancliff Rd., Suite 210
Houston, Texas 77099
Tel. +1 281 530 5656
Fax. +1 281 530 5887

Date: 6
Name:
Company:

CUSTODY SEAL
3/28/14 Time: 1500
Greg Dillon
Seagull

Seal Broken By:
Date: 3-31-14

CUSTODY SEAL
3/28/14 Time: 1500
Greg Dillon
Seagull

Seal Broken By:
Date: 3-31-14

ALS Environmental
10450 Stancliff Rd., Suite 210
Houston, Texas 77099
Tel. +1 281 530 5656
Fax. +1 281 530 5887

Date:
Name:
Company

FedEx 1 of 6
TRK# 8042 5199 0886
MASTER ##
XO SGRA
SATURDAY 9:30A
FIRST OVERNIGHT
77099
TX-US IAH

Do Not Lift Using This Tag
FedEx 4 of 6
MPS# 7949 3504 0256
Mstr# 8042 5199 0886
XO SGRA
SATURDAY 9:30A
FIRST OVERNIGHT
77099
TX-US IAH

APPENDIX D

FISH TISSUE ANALYTICAL RESULTS

ALS Environmental
ALS Group USA, Corp.
1317 South 13th Avenue
Kelso, WA 98626
T: +1 360 577 7222
F: +1 360 636 1068
www.alsglobal.com

May 2, 2014 Analytical Report for Service Request No: K1403129

Jeff Pritchard
Seagull Environmental Technologies, Inc.
415 Oak Street
Kansas City, MO 64106

RE: Missouri Electric Works

Dear Jeff:

Enclosed are the results of the sample submitted to our laboratory on March 28, 2014. For your reference, these analyses have been assigned our service request number K1403129.

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. The test results meet requirements of the current NELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP-accredited analytes, refer to the certifications section at www.alsglobal.com. All results are intended to be considered in their entirety, and ALS Group USA Corp. dba ALS Environmental (ALS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report.

Please call if you have any questions. My extension is 3364. You may also contact me via Email at Howard.Holmes@alsglobal.com.

Respectfully submitted,

ALS Group USA Corp. dba ALS Environmental

Howard Holmes
Project Manager

HH/mj

RIGHT SOLUTIONS | RIGHT PARTNER

Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LOD	Limit of Detection
LOQ	Limit of Quantitation
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

Inorganic Data Qualifiers

*	The result is an outlier. See case narrative.
#	The control limit criteria is not applicable. See case narrative.
B	The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
E	The result is an estimate amount because the value exceeded the instrument calibration range.
J	The result is an estimated value.
U	The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL. *DOD-QSM 4.2 definition* : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
i	The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
X	See case narrative.
Q	See case narrative. One or more quality control criteria was outside the limits.
H	The holding time for this test is immediately following sample collection. The samples were analyzed as soon as possible after receipt by the laboratory.

Metals Data Qualifiers

#	The control limit criteria is not applicable. See case narrative.
J	The result is an estimated value.
E	The percent difference for the serial dilution was greater than 10%, indicating a possible matrix interference in the sample.
M	The duplicate injection precision was not met.
N	The Matrix Spike sample recovery is not within control limits. See case narrative.
S	The reported value was determined by the Method of Standard Additions (MSA).
U	The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL. *DOD-QSM 4.2 definition* : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
W	The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance.
i	The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
X	See case narrative.
+	The correlation coefficient for the MSA is less than 0.995.
Q	See case narrative. One or more quality control criteria was outside the limits.

Organic Data Qualifiers

*	The result is an outlier. See case narrative.
#	The control limit criteria is not applicable. See case narrative.
A	A tentatively identified compound, a suspected aldol-condensation product.
B	The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
C	The analyte was qualitatively confirmed using GC/MS techniques, pattern recognition, or by comparing to historical data.
D	The reported result is from a dilution.
E	The result is an estimated value.
J	The result is an estimated value.
N	The result is presumptive. The analyte was tentatively identified, but a confirmation analysis was not performed.
P	The GC or HPLC confirmation criteria was exceeded. The relative percent difference is greater than 40% between the two analytical results.
U	The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL. *DOD-QSM 4.2 definition* : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
i	The MRL/MDL or LOQ/LOD is elevated due to a chromatographic interference.
X	See case narrative.
Q	See case narrative. One or more quality control criteria was outside the limits.

Additional Petroleum Hydrocarbon Specific Qualifiers

F	The chromatographic fingerprint of the sample matches the elution pattern of the calibration standard.
L	The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of lighter molecular weight constituents than the calibration standard.
H	The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard.
O	The chromatographic fingerprint of the sample resembles an oil, but does not match the calibration standard.
Y	The chromatographic fingerprint of the sample resembles a petroleum product eluting in approximately the correct carbon range, but the elution pattern does not match the calibration standard.
Z	The chromatographic fingerprint does not resemble a petroleum product.

ALS Group USA Corp. dba ALS Environmental (ALS) - Kelso
State Certifications, Accreditations, and Licenses

Agency	Web Site	Number
Alaska DEC UST	http://dec.alaska.gov/applications/eh/ehllabreports/USTLabs.aspx	UST-040
Arizona DHS	http://www.azdhs.gov/lab/license/env.htm	AZ0339
Arkansas - DEQ	http://www.adeq.state.ar.us/techsvs/labcert.htm	88-0637
California DHS (ELAP)	http://www.cdph.ca.gov/certlic/labs/Pages/ELAP.aspx	2286
DOD ELAP	http://www.denix.osd.mil/edqw/Accreditation/AccreditedLabs.cfm	L12-28
Florida DOH	http://www.doh.state.fl.us/lab/EnvLabCert/WaterCert.htm	E87412
Georgia DNR	http://www.gaepd.org/Documents/techguide_pcb.html#cel	881
Hawaii DOH	Not available	-
Idaho DHW	http://www.healthandwelfare.idaho.gov/Health/Labs/CertificationDrinkingWaterLabs/tabid/1833/Default.aspx	-
Indiana DOH	http://www.in.gov/isdh/24859.htm	C-WA-01
ISO 17025	http://www.pjlabs.com/	L12-27
Louisiana DEQ	http://www.deq.louisiana.gov/portal/DIVISIONS/PublicParticipationandPermitSupport/LouisianaLaboratoryAccreditationProgram.aspx	3016
Maine DHS	Not available	WA0035
Michigan DEQ	http://www.michigan.gov/deq/0,1607,7-135-3307_4131_4156---,00.html	9949
Minnesota DOH	http://www.health.state.mn.us/accreditation	053-999-457
Montana DPHHS	http://www.dphhs.mt.gov/publichealth/	CERT0047
Nevada DEP	http://ndep.nv.gov/bsdw/labservice.htm	WA35
New Jersey DEP	http://www.nj.gov/dep/oqa/	WA005
North Carolina DWQ	http://www.dwqlab.org/	605
Oklahoma DEQ	http://www.deq.state.ok.us/CSDnew/labcert.htm	9801
Oregon – DEQ (NELAP)	http://public.health.oregon.gov/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx	WA200001
South Carolina DHEC	http://www.scdhec.gov/environment/envserv/	61002
Texas CEQ	http://www.tceq.texas.gov/field/qa/env_lab_accreditation.html	4704427-08-TX
Washington DOE	http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html	C1203
Wisconsin DNR	http://dnr.wi.gov/	998386840
Wyoming (EPA Region 8)	http://www.epa.gov/region8/water/dwhome/wyomingdi.html	-
Kelso Laboratory Website	www.alsglobal.com	NA

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. A complete listing of specific NELAP-certified analytes, can be found in the certification section at www.caslab.com or at the accreditation bodies web site

Please refer to the certification and/or accreditation body's web site if samples are submitted for compliance purposes. The states highlighted above, require the analysis be listed on the state certification if used for compliance purposes and if the method/anlayte is offered by that state.

Case Narrative

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360)577-7222 Fax (360)636-1068
www.alsglobal.com

ALS ENVIRONMENTAL

Client:	Seagull Environmental Technologies	**Service Request No.:**	K1403129
Project:	Missouri Electric Works	**Date Received:**	3/28/14
Sample Matrix:	Fish Tissue		

Case Narrative

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples designated for Tier IV validation deliverables including summary forms and all of the associated raw data for each of the analyses. When appropriate to the method, method blank results have been reported with each analytical test.

Sample Receipt

One fish tissue sample was received for analysis at ALS Environmental on 3/28/14. The samples were received in good condition and consistent with the accompanying chain of custody form. The samples were stored frozen at –20ºC upon receipt at the laboratory.

PCB Aroclors by EPA Method 8082

Elevated Detection Limits:
Sample Largemouth Bass (Lowland Pond) required dilution due to the presence of elevated levels of target analyte. The reporting limits were adjusted to reflect the dilution.

Matrix Spike Recovery Exceptions:
The control criteria for matrix spike recovery of Aroclor 1260 for sample Largemouth Bass (Lowland Pond) were not applicable. The analyte concentration in the sample was significantly higher than the added spike concentration, preventing accurate evaluation of the spike recovery.

No other anomalies associated with this analysis were observed.

Approved by_____

Chain of Custody

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360)577-7222 Fax (360)636-1068
www.alsglobal.com

ALS Environmental

Cincinnati, OH +1 513 733 5336 | Fort Collins, CO +1 970 490 1511 | Everett, WA +1 425 356 2600 | Holland, MI +1 616 399 6070

Chain of Custody Form

Page 1 of 1

COC ID: 102630 K1403129

Houston, TX +1 281 530 5656 | Spring City, PA +1 610 948 4903 | South Charleston, WV +1 304 356 3168 | Middletown, PA +1 717 944 5541 | Salt Lake City, UT +1 801 266 7700 | York, PA +1 717 505 5280

ALS Project Manager: | ALS Work Order #:

Customer Information		Project Information		Parameter/Method Request for Analysis	
Purchase Order		Project Name	Missouri Electric Works	A	~~PCB 8082~~
Work Order		Project Number		B	~~VOC TCL (8260)~~
Company Name	Seagull Environmental Technologies, Inc.	Bill To Company	Seagull Environmental Technologies, I	C	PCBs in Fish Tissue
Send Report To	Jeff Pritchard	Invoice Attn	Jeff Pritchard	D	
Address	415 Oak Street	Address	415 Oak Street	E	
				F	
City/State/Zip	Kansas City, MO 64106	City/State/Zip	Kansas City, MO 64106	G	
Phone	(816) 412-1937	Phone	(816) 412-1937	H	
Fax		Fax		I	
e-Mail Address	jpritchard@seagullenvirotech.com	e-Mail Address		J	

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	Largemouth Bass (Lowland Pond)	03/26/14	1040	BIOL	Ice	1			X								
2																	
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	

JRO 03/26/14

Sampler(s) Please Print & Sign | Shipment Method | Required Turnaround Time: (Check Box) ☑ Std 10 WK Days ☐ 5 WK Days ☐ 2 WK Days ☐ 24 Hour ☐ Other | Results Due Date:

Relinquished by:	Date:	Time:	Received by:
JRO	03/26/14	1745	Dwight ALS 3284 10:00
Relinquished by:	Date:	Time:	Received by (Laboratory):
Logged by (Laboratory):	Date:	Time:	Checked by (Laboratory):

Notes:

Cooler ID	Cooler Temp.

QC Package: (Check One Box Below)
- ☑ Level II Std QC
- ☐ Level III Std QC/Raw Data
- ☐ Level IV SW846/CLP
- ☐ Other / EDD
- ☐ TRRP CheckList
- ☐ TRRP Level IV

Preservative Key: 1-HCl 2-HNO_3 3-H_2SO_4 4-NaOH 5-$Na_2S_2O_3$ 6-$NaHSO_4$ 7-Other 8-4°C 9-5035

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.
2. Unless otherwise agreed in a formal contract, services provided by ALS Environmental are expressly limited to the terms and conditions stated on the reverse.
3. The Chain of Custody is a legal document. All information must be completed accurately.

Copyright 2011 by ALS Environmental

PC_____

Cooler Receipt and Preservation Form

Client / Project: Seagull Environmental Tech. Service Request *K14* 03129

Received: 3-28-14 Opened: 3-28-14 By: BW Unloaded: 3-28-14 By: BW

1. Samples were received via? *Mail* *Fed Ex* *UPS* *DHL* *PDX* *Courier* *Hand Delivered*
2. Samples were received in: (circle) *Cooler* *Box* *Envelope* *Other*_____ *NA*
3. Were custody seals on coolers? NA Y N If yes, how many and where? 1 Front / 1 Back
   If present, were custody seals intact? Y N If present, were they signed and dated? Y N

Raw Cooler Temp	Corrected. Cooler Temp	Raw Temp Blank	Corrected Temp Blank	Corr. Factor	Thermometer ID	Cooler/COC ID NA	Tracking Number NA	Filed
2.1	2.0	—	—	-0.1	308	102630	8050-4710-2968	

4. Packing material: *Inserts* *Baggies* *Bubble Wrap* *Gel Packs* *Wet Ice* *Dry Ice* *Sleeves* _____
5. Were custody papers properly filled out (ink, signed, etc.)? NA Y N
6. Did all bottles arrive in good condition (unbroken)? *Indicate in the table below.* NA Y N
7. Were all sample labels complete (i.e analysis, preservation, etc.)? NA Y N
8. Did all sample labels and tags agree with custody papers? *Indicate major discrepancies in the table on page 2.* NA Y N
9. Were appropriate bottles/containers and volumes received for the tests indicated? NA Y N
10. Were the pH-preserved bottles (*see SMO GEN SOP*) received at the appropriate pH? *Indicate in the table below* NA Y N
11. Were VOA vials received without headspace? *Indicate in the table below.* NA Y N
12. Was C12/Res negative? NA Y N

Sample ID on Bottle	Sample ID on COC	Identified by:
NO I.D.	Largemouth Bass (Lowland Pond)	only sample

Sample ID	Bottle Count Bottle Type	Out of Temp	Head-space	Broke	pH	Reagent	Volume added	Reagent Lot Number	Initials	Time

Notes, Discrepancies, & Resolutions:_____

*Page*_____*of*_____

Metals

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360)577-7222 Fax (360)636-1068
www.alsglobal.com

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Report

Client:	Seagull Environmental Technologies, Inc.	**Service Request:**	K1403129
Project:	Missouri Electric Works	**Date Collected:**	03/26/14
Sample Matrix:	Tissue	**Date Received:**	03/28/14

Solids, Total

Prep Method:	NONE	Units:	PERCENT
Analysis Method:	Freeze Dry	Basis:	Wet
Test Notes:			

Sample Name	**Lab Code**	**Date Analyzed**	**Result**	**Result Notes**
Largemouth Bass (Lowland Pond)	K1403129-001	04/11/14	24.8	

COLUMBIA ANALYTICAL SERVICES, INC.
Now part of the ALS Group
QA/QC Report

Client:	Seagull Environmental Technologies, Inc.	**Service Request:**	K1403129
Project:	Missouri Electric Works	**Date Collected:**	03/26/14
Sample Matrix:	Tissue	**Date Received:**	03/28/14
		Date Extracted:	NA
		Date Analyzed:	04/11/14

Duplicate Summary
Total Metals

Sample Name:	Largemouth Bass (Lowland Pond)	Units:	PERCENT
Lab Code:	K1403129-001D	Basis:	Wet
Test Notes:			

Analyte	Prep Method	Analysis Method	Sample Result	Duplicate Sample Result	Average	Relative Percent Difference	Result Notes
Solids, Total	NA	Freeze Dry	24.8	23.9	24.4	4	

LIPIDS

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360)577-7222 Fax (360)636-1068
www.alsglobal.com

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Seagull Environmental Technologies, Inc.	**Service Request:**	K1403129
Project:	Missouri Electric Works	**Date Collected:**	3/26/2014
Sample Matrix:	Finfish	**Date Received:**	3/28/2014

Lipids, Total

Prep Method:	EPA 3541	Units:	PERCENT
Analysis Method:	NOAA	Basis:	As Received
Test Notes:			

Sample Name	Lab Code	MRL	Date Extracted	Date Analyzed	Result	Result Notes
Largemouth Bass (Lowland Pond)	K1403129-001	0.02	4/11/2014	4/15/2014	0.68	
Method Blank	KQ1403721-09 MB	0.02	4/11/2014	4/15/2014	0.02	U

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client:	Seagull Environmental Technologies, Inc.	**Service Request:**	K1403129
Project:	Missouri Electric Works	**Date Collected:**	3/26/2014
Sample Matrix:	Finfish	**Date Received:**	3/28/2014
		Date Extracted:	4/11/2014
		Date Analyzed:	4/15/2014

Triplicate Summary
Lipids, Total

Sample Name:	Largemouth Bass (Lowland Pond)	Units:	PERCENT
Lab Code:	K1403129-001 TRP	Basis:	As Received
Test Notes:			

Analyte	Prep Method	Analysis Method	MRL	Sample Result	Duplicate Sample Result	Triplicate Sample Result	Average	Percent Relative Standard Deviation	Result Notes
Lipids, Total	EPA 3541	NOAA	0.02	0.68	0.73	0.70	0.70	3	

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client:	Seagull Environmental Technologies, Inc.	**Service Request:**	K1403129
Project:	Missouri Electric Works	**Date Collected:**	NA
Matrix:	Tissue	**Date Received:**	NA
		Date Extracted:	4/11/2014
		Date Analyzed:	4/15/2014

Laboratory Control Sample
Lipids, Total

Sample Name: KQ1403721-10 LCS

Units: % (percent)
Basis: Wet Weight

Test Notes:

Analyte	Prep Method	Analysis Method	Spike Level Percent	Result	CAS Advisory Limits	Result Notes
Lipids, Total	EPA 3541	NOAA	100	86	70-130	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Seagull Environmental Technologies, Inc.	**Service Request:**	K1403129	**Param**
Project:	Missouri Electric Works	**Date Collected:**	3/26/2014	**D**
Sample Matrix:	Finfish	**Date Received:**	3/28/2014	

Lipids, Total

Prep Method:	EPA 3541	Units:	PERCENT
Analysis Method:	NOAA	Basis:	Dry
Test Notes:			

Sample Name	Lab Code	MRL	Date Extracted	Date Analyzed	Result	Result Notes	CLP Qualifier
Largemouth Bass (Lowland Pond)	K1403129-001	0.10	4/11/2014	4/15/2014	2.8		
Method Blank	K1403129-001	0.02	4/11/2014	4/15/2014	0.02	U	

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client:	Seagull Environmental Technologies, Inc.	**Service Request:**	K1403129
Project:	Missouri Electric Works	**Date Collected:**	3/26/2014
Sample Matrix:	Finfish	**Date Received:**	3/28/2014
		Date Extracted:	4/11/2014
		Date Analyzed:	4/15/2014

Triplicate Summary
Lipids, Total

Sample Name:	Largemouth Bass (Lowland Pond)	Units:	PERCENT
Lab Code:	K1403129-001 TRP	Basis:	Dry
Test Notes:			

Analyte	Prep Method	Analysis Method	MRL	Sample Result	Duplicate Sample Result	Triplicate Sample Result	Average	Percent Relative Standard Deviation	Result Notes
Lipids, Total	EPA 3541	NOAA	0.10	2.8	2.9	2.8	2.8	3	

Polychlorinated Biphenyls

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360)577-7222 Fax (360)636-1068
www.alsglobal.com

Client: Seagull Environmental Technologies, Inc. **Service Request:** K1403129
Project: Missouri Electric Works

Cover Page - Organic Analysis Data Package
Polychlorinated Biphenyls (PCBs)

Sample Name	Lab Code	Date Collected	Date Received
Largemouth Bass (Lowland Pond)	K1403129-001	03/26/2014	03/28/2014
Largemouth Bass (Lowland Pond)MS	KWG1403897-1	03/26/2014	03/28/2014
Largemouth Bass (Lowland Pond)DMS	KWG1403897-2	03/26/2014	03/28/2014

ALS Group USA, Corp. dba ALS Environmental

Analytical Results

Client:	Seagull Environmental Technologies, Inc.	**Service Request:**	K1403129
Project:	Missouri Electric Works	**Date Collected:**	03/26/2014
Sample Matrix:	Finfish	**Date Received:**	03/28/2014

Polychlorinated Biphenyls (PCBs)

Sample Name:	Largemouth Bass (Lowland Pond)	**Units:**	ug/Kg
Lab Code:	K1403129-001	**Basis:**	Dry
Extraction Method:	EPA 3541	**Level:**	Low
Analysis Method:	8082A		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Aroclor 1016	ND	U	810	230	20	04/11/14	04/28/14	KWG1403897	
Aroclor 1221	ND	U	1700	230	20	04/11/14	04/28/14	KWG1403897	
Aroclor 1232	ND	U	810	230	20	04/11/14	04/28/14	KWG1403897	
Aroclor 1242	ND	U	810	230	20	04/11/14	04/28/14	KWG1403897	
Aroclor 1248	ND	U	810	230	20	04/11/14	04/28/14	KWG1403897	
Aroclor 1254	ND	U	810	230	20	04/11/14	04/28/14	KWG1403897	
Aroclor 1260	**27000**	D	810	230	20	04/11/14	04/28/14	KWG1403897	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Decachlorobiphenyl	99	37-139	04/28/14	Acceptable

Comments:

ALS Group USA, Corp. dba ALS Environmental

Analytical Results

Client:	Seagull Environmental Technologies, Inc.	**Service Request:**	K1403129
Project:	Missouri Electric Works	**Date Collected:**	NA
Sample Matrix:	Finfish	**Date Received:**	NA

Polychlorinated Biphenyls (PCBs)

Sample Name:	Method Blank	**Units:**	ug/Kg
Lab Code:	KWG1403897-4	**Basis:**	Dry
Extraction Method:	EPA 3541	**Level:**	Low
Analysis Method:	8082A		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Aroclor 1016	ND	U	9.9	2.8	1	04/11/14	04/28/14	KWG1403897	
Aroclor 1221	ND	U	20	2.8	1	04/11/14	04/28/14	KWG1403897	
Aroclor 1232	ND	U	9.9	2.8	1	04/11/14	04/28/14	KWG1403897	
Aroclor 1242	ND	U	9.9	2.8	1	04/11/14	04/28/14	KWG1403897	
Aroclor 1248	ND	U	9.9	2.8	1	04/11/14	04/28/14	KWG1403897	
Aroclor 1254	ND	U	9.9	2.8	1	04/11/14	04/28/14	KWG1403897	
Aroclor 1260	ND	U	9.9	2.8	1	04/11/14	04/28/14	KWG1403897	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Decachlorobiphenyl	93	37-139	04/28/14	Acceptable

Comments:

Client: Seagull Environmental Technologies, Inc. **Service Request:** K1403129
Project: Missouri Electric Works
Sample Matrix: Finfish

Surrogate Recovery Summary
Polychlorinated Biphenyls (PCBs)

Extraction Method: EPA 3541 **Units:** Percent
Analysis Method: 8082A **Level:** Low

Sample Name	Lab Code	Sur1
Largemouth Bass (Lowland Pond)	K1403129-001	99 D
Method Blank	KWG1403897-4	93
Largemouth Bass (Lowland Pond)MS	KWG1403897-1	105 D
Largemouth Bass (Lowland Pond)DM	KWG1403897-2	107 D
Lab Control Sample	KWG1403897-3	95

Surrogate Recovery Control Limits (%)

Sur1 = Decachlorobiphenyl 37-139

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client:	Seagull Environmental Technologies, Inc.	**Service Request:**	K1403129
Project:	Missouri Electric Works	**Date Extracted:**	04/11/2014
Sample Matrix:	Finfish	**Date Analyzed:**	04/28/2014

Matrix Spike/Duplicate Matrix Spike Summary
Polychlorinated Biphenyls (PCBs)

Sample Name:	Largemouth Bass (Lowland Pond)	**Units:**	ug/Kg
Lab Code:	K1403129-001	**Basis:**	Dry
Extraction Method:	EPA 3541	**Level:**	Low
Analysis Method:	8082A	**Extraction Lot:**	KWG1403897

		Largemouth Bass (Lowland Pond)MS KWG1403897-1 Matrix Spike			Largemouth Bass (Lowland Pond)DMS KWG1403897-2 Duplicate Matrix Spike					
Analyte Name	**Sample Result**	**Result**	**Spike Amount**	**%Rec**	**Result**	**Spike Amount**	**%Rec**	**%Rec Limits**	**RPD**	**RPD Limit**
Aroclor 1016	ND	790	804	98	785	804	98	46-128	1	40
Aroclor 1260	27000	31900	804	553 #	32800	804	660 #	46-128	3	40

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client:	Seagull Environmental Technologies, Inc.	**Service Request:**	K1403129
Project:	Missouri Electric Works	**Date Extracted:**	04/11/2014
Sample Matrix:	Finfish	**Date Analyzed:**	04/28/2014

Lab Control Spike Summary
Polychlorinated Biphenyls (PCBs)

Extraction Method:	EPA 3541	**Units:**	ug/Kg
Analysis Method:	8082A	**Basis:**	Dry
		Level:	Low
		Extraction Lot:	KWG1403897

	Lab Control Sample KWG1403897-3 Lab Control Spike			
Analyte Name	**Result**	**Spike Amount**	**%Rec**	**%Rec Limits**
Aroclor 1016	192	196	98	46-128
Aroclor 1260	167	196	85	46-128

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client:	Seagull Environmental Technologies, Inc.	**Service Request:**	K1403129
Project:	Missouri Electric Works	**Date Extracted:**	04/11/2014
Sample Matrix:	Finfish	**Date Analyzed:**	04/28/2014
		Time Analyzed:	03:01

Method Blank Summary
Polychlorinated Biphenyls (PCBs)

Sample Name:	Method Blank	**Instrument ID:**	GC28.i
Lab Code:	KWG1403897-4	**File ID:**	J:\GC28\DATA\042714.B\0427F006.D
Extraction Method:	EPA 3541	**Level:**	Low
Analysis Method:	8082A	**Extraction Lot:**	KWG1403897

This Method Blank applies to the following analyses:

Sample Name	Lab Code	File ID	Date Analyzed	Time Analyzed
Lab Control Sample	KWG1403897-3	J:\GC28\DATA\042714.B\0427F005.D	04/28/14	02:38
Largemouth Bass (Lowland Pond)	K1403129-001	J:\GC28\DATA\042714.B\0427F007.D	04/28/14	03:24
Largemouth Bass (Lowland Pond)MS	KWG1403897-1	J:\GC28\DATA\042714.B\0427F008.D	04/28/14	03:47
Largemouth Bass (Lowland Pond)DMS	KWG1403897-2	J:\GC28\DATA\042714.B\0427F009.D	04/28/14	04:10

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client:	Seagull Environmental Technologies, Inc.	**Service Request:**	K1403129
Project:	Missouri Electric Works	**Date Extracted:**	04/11/2014
Sample Matrix:	Finfish	**Date Analyzed:**	04/28/2014
		Time Analyzed:	02:38

Lab Control Sample Summary
Polychlorinated Biphenyls (PCBs)

Sample Name:	Lab Control Sample	**Instrument ID:**	GC28.i
Lab Code:	KWG1403897-3	**File ID:**	J:\GC28\DATA\042714.B\0427F005.D
Extraction Method:	EPA 3541	**Level:**	Low
Analysis Method:	8082A	**Extraction Lot:**	KWG1403897

This Lab Control Sample applies to the following analyses:

Sample Name	Lab Code	File ID	Date Analyzed	Time Analyzed
Method Blank	KWG1403897-4	J:\GC28\DATA\042714.B\0427F006.D	04/28/14	03:01
Largemouth Bass (Lowland Pond)	K1403129-001	J:\GC28\DATA\042714.B\0427F007.D	04/28/14	03:24
Largemouth Bass (Lowland Pond)MS	KWG1403897-1	J:\GC28\DATA\042714.B\0427F008.D	04/28/14	03:47
Largemouth Bass (Lowland Pond)DMS	KWG1403897-2	J:\GC28\DATA\042714.B\0427F009.D	04/28/14	04:10

QA/QC Results

Client: Seagull Environmental Technologies, Inc. **Service Request:** K1403129
Project: Missouri Electric Works **Calibration Date:** 04/25/2014

Initial Calibration Summary
Polychlorinated Biphenyls (PCBs)

Calibration ID: CAL13284 **Column:** DB-35MS
Instrument ID: GC28.i

Level ID	File ID	Level ID	File ID
A	\\alklsws002\instdata\GC28\Data\042414CAL_r.b\0424F005.D	Q	\\alklsws002\instdata\GC28\Data\042414CAL_r.b\0424F021.D
B	\\alklsws002\instdata\GC28\Data\042414CAL_r.b\0424F006.D	R	\\alklsws002\instdata\GC28\Data\042414CAL_r.b\0424F022.D
C	\\alklsws002\instdata\GC28\Data\042414CAL_r.b\0424F007.D	S	\\alklsws002\instdata\GC28\Data\042414CAL_r.b\0424F023.D
D	\\alklsws002\instdata\GC28\Data\042414CAL_r.b\0424F008.D	T	\\alklsws002\instdata\GC28\Data\042414CAL_r.b\0424F024.D
E	\\alklsws002\instdata\GC28\Data\042414CAL_r.b\0424F009.D	U	\\alklsws002\instdata\GC28\Data\042414CAL_r.b\0424F025.D
F	\\alklsws002\instdata\GC28\Data\042414CAL_r.b\0424F010.D	V	\\alklsws002\instdata\GC28\Data\042414CAL_r.b\0424F026.D
G	\\alklsws002\instdata\GC28\Data\042414CAL_r.b\0424F011.D	W	\\alklsws002\instdata\GC28\Data\042414CAL_r.b\0424F027.D
H	\\alklsws002\instdata\GC28\Data\042414CAL_r.b\0424F012.D	X	\\alklsws002\instdata\GC28\Data\042414CAL_r.b\0424F028.D
I	\\alklsws002\instdata\GC28\Data\042414CAL_r.b\0424F013.D	Y	\\alklsws002\instdata\GC28\Data\042414CAL_r.b\0424F029.D
J	\\alklsws002\instdata\GC28\Data\042414CAL_r.b\0424F014.D	Z	\\alklsws002\instdata\GC28\Data\042414CAL_r.b\0424F030.D
K	\\alklsws002\instdata\GC28\Data\042414CAL_r.b\0424F015.D	AA	\\alklsws002\instdata\GC28\Data\042414CAL_r.b\0424F031.D
L	\\alklsws002\instdata\GC28\Data\042414CAL_r.b\0424F016.D	AB	\\alklsws002\instdata\GC28\Data\042414CAL_r.b\0424F032.D
M	\\alklsws002\instdata\GC28\Data\042414CAL_r.b\0424F017.D	AC	\\alklsws002\instdata\GC28\Data\042414CAL_r.b\0424F033.D
N	\\alklsws002\instdata\GC28\Data\042414CAL_r.b\0424F018.D	AD	\\alklsws002\instdata\GC28\Data\042414CAL_r.b\0424F034.D
O	\\alklsws002\instdata\GC28\Data\042414CAL_r.b\0424F019.D		
P	\\alklsws002\instdata\GC28\Data\042414CAL_r.b\0424F020.D		

Analyte Name	Level ID	Amt	RF	Level ID	Amt	RF	Level ID	Amt	RF	Level ID	Amt	RF	Level ID	Amt	RF
Decachlorobiphenyl	A	2.5	8.55E+5	B	5.0	8.21E+5	C	50	6.73E+5	D	100	6.75E+5	E	200	6.41E+5
	F	500	5.91E+5												
Aroclor 1016 {1}	A	25	11700	B	50	11000	C	500	9180	D	1000	9520	E	2000	8470
	F	5000	8490												
Aroclor 1016 {2}	A	25	35400	B	50	32200	C	500	30200	D	1000	34400	E	2000	30200
	F	5000	29500												
Aroclor 1016 {3}	A	25	25000	B	50	24200	C	500	20400	D	1000	20700	E	2000	19200
	F	5000	18900												
Aroclor 1016 {4}	A	25	20100	B	50	19600	C	500	15900	D	1000	16000	E	2000	14400
	F	5000	14100												
Aroclor 1016 {5}	A	25	19600	B	50	19200	C	500	16500	D	1000	16700	E	2000	15400
	F	5000	15100												
Aroclor 1260 {1}	A	25	18500	B	50	18300	C	500	16800	D	1000	17500	E	2000	17200
	F	5000	16700												
Aroclor 1260 {2}	A	25	33500	B	50	32800	C	500	28000	D	1000	28100	E	2000	26700
	F	5000	25300												
Aroclor 1260 {3}	A	25	33300	B	50	32300	C	500	28200	D	1000	28600	E	2000	27600
	F	5000	26200												
Aroclor 1260 {4}	A	25	77800	B	50	74800	C	500	67600	D	1000	70400	E	2000	69500
	F	5000	67500												

Results flagged with an asterisk (*) indicate values outside control criteria.

Client: Seagull Environmental Technologies, Inc. **Service Request:** K1403129
Project: Missouri Electric Works **Calibration Date:** 04/25/2014

Initial Calibration Summary
Polychlorinated Biphenyls (PCBs)

Calibration ID: CAL13284 **Column:** DB-35MS
Instrument ID: GC28.i

Analyte Name	Level ID	Amt	RF	Level ID	Amt	RF	Level ID	Amt	RF	Level ID	Amt	RF	Level ID	Amt	RF
Aroclor 1260 {5}	A	25	58900	B	50	57700	C	500	51500	D	1000	53100	E	2000	51900
	F	5000	49700												

Results flagged with an asterisk (*) indicate values outside control criteria.

QA/QC Results

Client: Seagull Environmental Technologies, Inc. **Service Request:** K1403129
Project: Missouri Electric Works **Calibration Date:** 04/25/2014

Initial Calibration Summary
Polychlorinated Biphenyls (PCBs)

Calibration ID: CAL13284 **Column:** DB-35MS
Instrument ID: GC28.i

		Calibration Evaluation				
Analyte Name	**Compound Type**	**Fit Type**	**Eval.**	**Eval. Result**	**Q**	**Control Criteria**
Decachlorobiphenyl	SURR	AverageRF	% RSD	14.8		≤ 20
Aroclor 1016 {1}	MULTI	AverageRF	% RSD	13.8		≤ 20
Aroclor 1016 {2}	MULTI	AverageRF	% RSD	7.6		≤ 20
Aroclor 1016 {3}	MULTI	AverageRF	% RSD	12.2		≤ 20
Aroclor 1016 {4}	MULTI	AverageRF	% RSD	15.4		≤ 20
Aroclor 1016 {5}	MULTI	AverageRF	% RSD	11.1		≤ 20
Aroclor 1260 {1}	MULTI	AverageRF	% RSD	4.2		≤ 20
Aroclor 1260 {2}	MULTI	AverageRF	% RSD	11.5		≤ 20
Aroclor 1260 {3}	MULTI	AverageRF	% RSD	9.5		≤ 20
Aroclor 1260 {4}	MULTI	AverageRF	% RSD	5.8		≤ 20
Aroclor 1260 {5}	MULTI	AverageRF	% RSD	6.8		≤ 20

Results flagged with an asterisk (*) indicate values outside control criteria.

Client: Seagull Environmental Technologies, Inc.
Project: Missouri Electric Works

Service Request: K1403129
Calibration Date: 04/25/2014
Date Analyzed: 04/25/2014

Second Source Calibration Verification
Polychlorinated Biphenyls (PCBs)

Calibration Type: External Standard
Analysis Method: 8082A

Calibration ID: CAL13284
Units: ng/mL

File ID:
\\alklsws002\instdata\GC28\Data\042414CAL_r.b\0424F035.D
\\alklsws002\instdata\GC28\Data\042414CAL_r.b\0424F036.D
\\alklsws002\instdata\GC28\Data\042414CAL_r.b\0424F037.D
\\alklsws002\instdata\GC28\Data\042414CAL_r.b\0424F038.D
\\alklsws002\instdata\GC28\Data\042414CAL_r.b\0424F039.D
\\alklsws002\instdata\GC28\Data\042414CAL_r.b\0424F040.D
\\alklsws002\instdata\GC28\Data\042414CAL_r.b\0424F041.D
\\alklsws002\instdata\GC28\Data\042414CAL_r.b\0424F042.D
\\alklsws002\instdata\GC28\Data\042414CAL_r.b\0424F043.D

Column ID: DB-35MS

Analyte Name	Expected	Result	Average RF	SSV RF	%D	%Drift	Criteria	Curve Fit
Aroclor 1016 {1}	1000	920	9720	8980	-8	NA	± 100 %	AverageRF
Aroclor 1016 {2}	1000	960	32000	30600	-4	NA	± 100 %	AverageRF
Aroclor 1016 {3}	1000	920	21400	19600	-8	NA	± 100 %	AverageRF
Aroclor 1016 {4}	1000	870	16700	14500	-13	NA	± 100 %	AverageRF
Aroclor 1016 {5}	1000	940	17100	16100	-6	NA	± 100 %	AverageRF
Aroclor 1016	1000	920	NA	NA	NA	-8	± 20 %	NA
Aroclor 1260 {1}	1000	960	17500	16800	-4	NA	± 100 %	AverageRF
Aroclor 1260 {2}	1000	1100	29100	32900	13	NA	± 100 %	AverageRF
Aroclor 1260 {3}	1000	1100	29400	32300	10	NA	± 100 %	AverageRF
Aroclor 1260 {4}	1000	1100	71300	79300	11	NA	± 100 %	AverageRF
Aroclor 1260 {5}	1000	1100	53800	58200	8	NA	± 100 %	AverageRF
Aroclor 1260	1000	1100	NA	NA	NA	8	± 20 %	NA

Results flagged with an asterisk (*) indicate values outside control criteria.

† SPCC Compound **‡ CCC Compound**

Client: Seagull Environmental Technologies, Inc. **Service Request:** K1403129
Project: Missouri Electric Works **Calibration Date:** 04/25/2014

Initial Calibration Summary
Polychlorinated Biphenyls (PCBs)

Calibration ID: CAL13284 **Column:** DB-XLB
Instrument ID: GC28.i

Level ID	File ID	Level ID	File ID
A	\\alklsws002\instdata\GC28\Data\042414CAL.b\0424F005.D	Q	\\alklsws002\instdata\GC28\Data\042414CAL.b\0424F021.D
B	\\alklsws002\instdata\GC28\Data\042414CAL.b\0424F006.D	R	\\alklsws002\instdata\GC28\Data\042414CAL.b\0424F022.D
C	\\alklsws002\instdata\GC28\Data\042414CAL.b\0424F007.D	S	\\alklsws002\instdata\GC28\Data\042414CAL.b\0424F023.D
D	\\alklsws002\instdata\GC28\Data\042414CAL.b\0424F008.D	T	\\alklsws002\instdata\GC28\Data\042414CAL.b\0424F024.D
E	\\alklsws002\instdata\GC28\Data\042414CAL.b\0424F009.D	U	\\alklsws002\instdata\GC28\Data\042414CAL.b\0424F025.D
F	\\alklsws002\instdata\GC28\Data\042414CAL.b\0424F010.D	V	\\alklsws002\instdata\GC28\Data\042414CAL.b\0424F026.D
G	\\alklsws002\instdata\GC28\Data\042414CAL.b\0424F011.D	W	\\alklsws002\instdata\GC28\Data\042414CAL.b\0424F027.D
H	\\alklsws002\instdata\GC28\Data\042414CAL.b\0424F012.D	X	\\alklsws002\instdata\GC28\Data\042414CAL.b\0424F028.D
I	\\alklsws002\instdata\GC28\Data\042414CAL.b\0424F013.D	Y	\\alklsws002\instdata\GC28\Data\042414CAL.b\0424F029.D
J	\\alklsws002\instdata\GC28\Data\042414CAL.b\0424F014.D	Z	\\alklsws002\instdata\GC28\Data\042414CAL.b\0424F030.D
K	\\alklsws002\instdata\GC28\Data\042414CAL.b\0424F015.D	AA	\\alklsws002\instdata\GC28\Data\042414CAL.b\0424F031.D
L	\\alklsws002\instdata\GC28\Data\042414CAL.b\0424F016.D	AB	\\alklsws002\instdata\GC28\Data\042414CAL.b\0424F032.D
M	\\alklsws002\instdata\GC28\Data\042414CAL.b\0424F017.D	AC	\\alklsws002\instdata\GC28\Data\042414CAL.b\0424F033.D
N	\\alklsws002\instdata\GC28\Data\042414CAL.b\0424F018.D	AD	\\alklsws002\instdata\GC28\Data\042414CAL.b\0424F034.D
O	\\alklsws002\instdata\GC28\Data\042414CAL.b\0424F019.D		
P	\\alklsws002\instdata\GC28\Data\042414CAL.b\0424F020.D		

Analyte Name	Level ID	Amt	RF	Level ID	Amt	RF	Level ID	Amt	RF	Level ID	Amt	RF	Level ID	Amt	RF
Decachlorobiphenyl	A	2.5	1.29E+5	B	5.0	1.26E+5	C	50	1.12E+5	D	100	1.10E+5	E	200	1.06E+5
	F	500	94800												
Aroclor 1016 {1}	A	25	2960	B	50	2780	C	500	2340	D	1000	2340	E	2000	2090
	F	5000	1920												
Aroclor 1016 {2}	A	25	6770	B	50	6610	C	500	5590	D	1000	5580	E	2000	5180
	F	5000	5000												
Aroclor 1016 {3}	A	25	4500	B	50	4280	C	500	3740	D	1000	3720	E	2000	3390
	F	5000	3190												
Aroclor 1016 {4}	A	25	3400	B	50	3380	C	500	2850	D	1000	2810	E	2000	2570
	F	5000	2340												
Aroclor 1016 {5}	A	25	3260	B	50	3270	C	500	2830	D	1000	2810	E	2000	2570
	F	5000	2370												
Aroclor 1260 {1}	A	25	8020	B	50	7370	C	500	6210	D	1000	6060	E	2000	5720
	F	5000	5230												
Aroclor 1260 {2}	A	25	4960	B	50	5290	C	500	4690	D	1000	4630	E	2000	4420
	F	5000	3990												
Aroclor 1260 {3}	A	25	6050	B	50	5680	C	500	4950	D	1000	4910	E	2000	4750
	F	5000	4330												
Aroclor 1260 {4}	A	25	13400	B	50	12400	C	500	11100	D	1000	11100	E	2000	10900
	F	5000	10100												

Results flagged with an asterisk (*) indicate values outside control criteria.

Client: Seagull Environmental Technologies, Inc. **Service Request:** K1403129
Project: Missouri Electric Works **Calibration Date:** 04/25/2014

Initial Calibration Summary
Polychlorinated Biphenyls (PCBs)

Calibration ID: CAL13284 **Column:** DB-XLB
Instrument ID: GC28.i

Analyte Name	Level ID	Amt	RF	Level ID	Amt	RF	Level ID	Amt	RF	Level ID	Amt	RF	Level ID	Amt	RF
Aroclor 1260 {5}	A	25	8400	B	50	8010	C	500	7390	D	1000	7360	E	2000	7220
	F	5000	6550												

Results flagged with an asterisk (*) indicate values outside control criteria.

Client: Seagull Environmental Technologies, Inc. **Service Request:** K1403129
Project: Missouri Electric Works **Calibration Date:** 04/25/2014

Initial Calibration Summary
Polychlorinated Biphenyls (PCBs)

Calibration ID: CAL13284 **Column:** DB-XLB
Instrument ID: GC28.i

Analyte Name	Compound Type	Calibration Evaluation				
		Fit Type	Eval.	Eval. Result	Q	Control Criteria
Decachlorobiphenyl	SURR	AverageRF	% RSD	11.3		≤ 20
Aroclor 1016 {1}	MULTI	AverageRF	% RSD	16.6		≤ 20
Aroclor 1016 {2}	MULTI	AverageRF	% RSD	12.8		≤ 20
Aroclor 1016 {3}	MULTI	AverageRF	% RSD	13.3		≤ 20
Aroclor 1016 {4}	MULTI	AverageRF	% RSD	14.8		≤ 20
Aroclor 1016 {5}	MULTI	AverageRF	% RSD	12.7		≤ 20
Aroclor 1260 {1}	MULTI	AverageRF	% RSD	16.4		≤ 20
Aroclor 1260 {2}	MULTI	AverageRF	% RSD	9.6		≤ 20
Aroclor 1260 {3}	MULTI	AverageRF	% RSD	12.4		≤ 20
Aroclor 1260 {4}	MULTI	AverageRF	% RSD	10.3		≤ 20
Aroclor 1260 {5}	MULTI	AverageRF	% RSD	8.6		≤ 20

Results flagged with an asterisk (*) indicate values outside control criteria.

ALS Group USA, Corp. dba ALS Environmental

QA/QC Results

Client:	Seagull Environmental Technologies, Inc.	**Service Request:**	K1403129
Project:	Missouri Electric Works	**Calibration Date:**	04/25/2014
		Date Analyzed:	04/25/2014

Second Source Calibration Verification
Polychlorinated Biphenyls (PCBs)

Calibration Type:	External Standard	**Calibration ID:**	CAL13284
Analysis Method:	8082A	**Units:**	ng/mL
File ID:	\\alklsws002\instdata\GC28\Data\042414CAL.b\0424F035.D	**Column ID:**	DB-XLB
	\\alklsws002\instdata\GC28\Data\042414CAL.b\0424F036.D		
	\\alklsws002\instdata\GC28\Data\042414CAL.b\0424F037.D		
	\\alklsws002\instdata\GC28\Data\042414CAL.b\0424F038.D		
	\\alklsws002\instdata\GC28\Data\042414CAL.b\0424F039.D		
	\\alklsws002\instdata\GC28\Data\042414CAL.b\0424F040.D		
	\\alklsws002\instdata\GC28\Data\042414CAL.b\0424F041.D		
	\\alklsws002\instdata\GC28\Data\042414CAL.b\0424F042.D		
	\\alklsws002\instdata\GC28\Data\042414CAL.b\0424F043.D		

Analyte Name	Expected	Result	Average RF	SSV RF	%D	%Drift	Criteria	Curve Fit
Aroclor 1016 {1}	1000	930	2410	2250	-7	NA	± 100 %	AverageRF
Aroclor 1016 {2}	1000	920	5790	5310	-8	NA	± 100 %	AverageRF
Aroclor 1016 {3}	1000	930	3800	3560	-7	NA	± 100 %	AverageRF
Aroclor 1016 {4}	1000	930	2890	2700	-7	NA	± 100 %	AverageRF
Aroclor 1016 {5}	1000	960	2850	2740	-4	NA	± 100 %	AverageRF
Aroclor 1016	1000	940	NA	NA	NA	-6	± 20 %	NA
Aroclor 1260 {1}	1000	940	6440	6030	-6	NA	± 100 %	AverageRF
Aroclor 1260 {2}	1000	1200	4660	5480	17	NA	± 100 %	AverageRF
Aroclor 1260 {3}	1000	1100	5110	5520	8	NA	± 100 %	AverageRF
Aroclor 1260 {4}	1000	1100	11500	12600	9	NA	± 100 %	AverageRF
Aroclor 1260 {5}	1000	1100	7490	8060	8	NA	± 100 %	AverageRF
Aroclor 1260	1000	1100	NA	NA	NA	7	± 20 %	NA

Results flagged with an asterisk (*) indicate values outside control criteria.

† SPCC Compound **‡ CCC Compound**

Client: Seagull Environmental Technologies, Inc. **Service Request:** K1403129
Project: Missouri Electric Works **Date Analyzed:** 04/28/2014

Continuing Calibration Verification Summary
Polychlorinated Biphenyls (PCBs)

Calibration Type: External Standard **Calibration Date:** 04/25/2014
Analysis Method: 8082A **Calibration ID:** CAL13284
Analysis Lot: KWG1403893
Units: ng/mL
File ID: \\ALKLSWS002\INSTDATA\GC28\DATA\042714_R.B\0427F003.D **Column ID:** DB-35MS

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Decachlorobiphenyl	50	46	709000	656000	-7	NA	± 20 %	AverageRF
Aroclor 1016 {1}	500	480	9720	9420	-3	NA	± 100 %	AverageRF
Aroclor 1016 {2}	500	480	32000	31000	-3	NA	± 100 %	AverageRF
Aroclor 1016 {3}	500	470	21400	20200	-6	NA	± 100 %	AverageRF
Aroclor 1016 {4}	500	470	16700	15800	-5	NA	± 100 %	AverageRF
Aroclor 1016 {5}	500	470	17100	16200	-5	NA	± 100 %	AverageRF
Aroclor 1016	500	480	NA	NA	NA	-4	± 20 %	NA
Aroclor 1260 {1}	500	430	17500	15100	-14	NA	± 100 %	AverageRF
Aroclor 1260 {2}	500	440	29100	25400	-13	NA	± 100 %	AverageRF
Aroclor 1260 {3}	500	440	29400	25600	-13	NA	± 100 %	AverageRF
Aroclor 1260 {4}	500	430	71300	61500	-14	NA	± 100 %	AverageRF
Aroclor 1260 {5}	500	440	53800	47800	-11	NA	± 100 %	AverageRF
Aroclor 1260	500	440	NA	NA	NA	-13	± 20 %	NA

Results flagged with an asterisk (*) indicate values outside control criteria.

Client: Seagull Environmental Technologies, Inc. **Service Request:** K1403129
Project: Missouri Electric Works **Date Analyzed:** 04/28/2014

Continuing Calibration Verification Summary
Polychlorinated Biphenyls (PCBs)

Calibration Type: External Standard **Calibration Date:** 04/25/2014
Analysis Method: 8082A **Calibration ID:** CAL13284
Analysis Lot: KWG1403893
Units: ng/mL
File ID: \\ALKLSWS002\INSTDATA\GC28\DATA\042714.B\0427F003.D **Column ID:** DB-XLB

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Decachlorobiphenyl	50	52	113000	118000	4	NA	± 20 %	AverageRF
Aroclor 1016 {1}	500	510	2410	2430	1	NA	± 100 %	AverageRF
Aroclor 1016 {2}	500	490	5790	5720	-1	NA	± 100 %	AverageRF
Aroclor 1016 {3}	500	500	3800	3820	0	NA	± 100 %	AverageRF
Aroclor 1016 {4}	500	510	2890	2920	1	NA	± 100 %	AverageRF
Aroclor 1016 {5}	500	510	2850	2910	2	NA	± 100 %	AverageRF
Aroclor 1016	500	500	NA	NA	NA	1	± 20 %	NA
Aroclor 1260 {1}	500	470	6440	6050	-6	NA	± 100 %	AverageRF
Aroclor 1260 {2}	500	490	4660	4590	-2	NA	± 100 %	AverageRF
Aroclor 1260 {3}	500	470	5110	4850	-5	NA	± 100 %	AverageRF
Aroclor 1260 {4}	500	480	11500	11000	-4	NA	± 100 %	AverageRF
Aroclor 1260 {5}	500	490	7490	7400	-1	NA	± 100 %	AverageRF
Aroclor 1260	500	480	NA	NA	NA	-4	± 20 %	NA

Results flagged with an asterisk (*) indicate values outside control criteria.

ALS Group USA, Corp. dba ALS Environmental

QA/QC Results

Client:	Seagull Environmental Technologies, Inc.	**Service Request:**	K1403129
Project:	Missouri Electric Works	**Date Analyzed:**	04/28/2014

Continuing Calibration Verification Summary
Polychlorinated Biphenyls (PCBs)

Calibration Type:	External Standard	**Calibration Date:**	04/25/2014
Analysis Method:	8082A	**Calibration ID:**	CAL13284
		Analysis Lot:	KWG1403893
		Units:	ng/mL
File ID:	\\ALKLSWS002\INSTDATA\GC28\DATA\042714_R.B\0427F015.D	**Column ID:**	DB-35MS

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Decachlorobiphenyl	50	47	709000	664000	-6	NA	± 20 %	AverageRF
Aroclor 1016 {1}	500	490	9720	9500	-2	NA	± 100 %	AverageRF
Aroclor 1016 {2}	500	490	32000	31500	-1	NA	± 100 %	AverageRF
Aroclor 1016 {3}	500	480	21400	20500	-4	NA	± 100 %	AverageRF
Aroclor 1016 {4}	500	480	16700	16000	-4	NA	± 100 %	AverageRF
Aroclor 1016 {5}	500	480	17100	16500	-4	NA	± 100 %	AverageRF
Aroclor 1016	500	480	NA	NA	NA	-3	± 20 %	NA
Aroclor 1260 {1}	500	450	17500	15700	-10	NA	± 100 %	AverageRF
Aroclor 1260 {2}	500	450	29100	26200	-10	NA	± 100 %	AverageRF
Aroclor 1260 {3}	500	450	29400	26300	-10	NA	± 100 %	AverageRF
Aroclor 1260 {4}	500	440	71300	63200	-11	NA	± 100 %	AverageRF
Aroclor 1260 {5}	500	450	53800	48900	-9	NA	± 100 %	AverageRF
Aroclor 1260	500	450	NA	NA	NA	-10	± 20 %	NA

Results flagged with an asterisk (*) indicate values outside control criteria.

Client: Seagull Environmental Technologies, Inc. **Service Request:** K1403129
Project: Missouri Electric Works **Date Analyzed:** 04/28/2014

Continuing Calibration Verification Summary
Polychlorinated Biphenyls (PCBs)

Calibration Type: External Standard **Calibration Date:** 04/25/2014
Analysis Method: 8082A **Calibration ID:** CAL13284
Analysis Lot: KWG1403893
Units: ng/mL
File ID: \\ALKLSWS002\INSTDATA\GC28\DATA\042714.B\0427F015.D **Column ID:** DB-XLB

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Decachlorobiphenyl	50	54	113000	122000	7	NA	± 20 %	AverageRF
Aroclor 1016 {1}	500	520	2410	2490	3	NA	± 100 %	AverageRF
Aroclor 1016 {2}	500	500	5790	5830	1	NA	± 100 %	AverageRF
Aroclor 1016 {3}	500	510	3800	3880	2	NA	± 100 %	AverageRF
Aroclor 1016 {4}	500	520	2890	3000	4	NA	± 100 %	AverageRF
Aroclor 1016 {5}	500	520	2850	2950	3	NA	± 100 %	AverageRF
Aroclor 1016	500	510	NA	NA	NA	3	± 20 %	NA
Aroclor 1260 {1}	500	490	6440	6280	-2	NA	± 100 %	AverageRF
Aroclor 1260 {2}	500	510	4660	4800	3	NA	± 100 %	AverageRF
Aroclor 1260 {3}	500	490	5110	5040	-1	NA	± 100 %	AverageRF
Aroclor 1260 {4}	500	500	11500	11400	-1	NA	± 100 %	AverageRF
Aroclor 1260 {5}	500	520	7490	7730	3	NA	± 100 %	AverageRF
Aroclor 1260	500	500	NA	NA	NA	0	± 20 %	NA

Results flagged with an asterisk (*) indicate values outside control criteria.

ALS Group USA, Corp. dba ALS Environmental

QA/QC Results

Client: Seagull Environmental Technologies, Inc. **Service Request:** K1403129
Project: Missouri Electric Works

Analysis Run Log
Polychlorinated Biphenyls (PCBs)

Analysis Method: 8082A

Analysis Lot: KWG1403893
Instrument ID: GC28.i
Column: DB-35MS

File ID	Sample Name	Lab Code	Date Analysis Started	Start Time	Q	Date Analysis Finished	Finish Time
0427F003.D	Continuing Calibration Verification	KWG1403893-1	4/28/2014	01:51		4/28/2014	01:51
0427F004.D	Instrument Blank	KWG1403893-2	4/28/2014	02:14		4/28/2014	02:14
0427F005.D	Lab Control Sample	KWG1403897-3	4/28/2014	02:38		4/28/2014	02:38
0427F006.D	Method Blank	KWG1403897-4	4/28/2014	03:01		4/28/2014	03:01
0427F007.D	Largemouth Bass (Lowland Pond)	K1403129-001	4/28/2014	03:24		4/28/2014	03:24
0427F008.D	Largemouth Bass (Lowland Pond)MS	KWG1403897-1	4/28/2014	03:47		4/28/2014	03:47
0427F009.D	Largemouth Bass (Lowland Pond)DMS	KWG1403897-2	4/28/2014	04:10		4/28/2014	04:10
0427F010.D	ZZZZZZ	ZZZZZZ	4/28/2014	04:33		4/28/2014	04:33
0427F011.D	ZZZZZZ	ZZZZZZ	4/28/2014	04:56		4/28/2014	04:56
0427F012.D	ZZZZZZ	ZZZZZZ	4/28/2014	05:19		4/28/2014	05:19
0427F013.D	ZZZZZZ	ZZZZZZ	4/28/2014	05:41		4/28/2014	05:41
0427F014.D	ZZZZZZ	ZZZZZZ	4/28/2014	06:04		4/28/2014	06:04
0427F015.D	Continuing Calibration Verification	KWG1403893-3	4/28/2014	06:27		4/28/2014	06:27
0427F016.D	Instrument Blank	KWG1403893-4	4/28/2014	06:50		4/28/2014	06:50
0427F017.D	ZZZZZZ	ZZZZZZ	4/28/2014	07:12		4/28/2014	07:12
0427F018.D	ZZZZZZ	ZZZZZZ	4/28/2014	07:35		4/28/2014	07:35
0427F019.D	ZZZZZZ	ZZZZZZ	4/28/2014	07:58		4/28/2014	07:58
0427F020.D	ZZZZZZ	ZZZZZZ	4/28/2014	08:20		4/28/2014	08:20
0427F023.D	ZZZZZZ	ZZZZZZ	4/28/2014	09:28		4/28/2014	09:28
0427F024.D	ZZZZZZ	ZZZZZZ	4/28/2014	09:50		4/28/2014	09:50
0427F025.D	ZZZZZZ	ZZZZZZ	4/28/2014	10:13		4/28/2014	10:13
0427F026.D	ZZZZZZ	ZZZZZZ	4/28/2014	10:36		4/28/2014	10:36
0427F027.D	Continuing Calibration Verification	KWG1403893-5	4/28/2014	10:58		4/28/2014	10:58
0427F028.D	Instrument Blank	KWG1403893-6	4/28/2014	11:21		4/28/2014	11:21

Results flagged with an asterisk (*) indicate the holding time was exceeded for the analysis

Client: Seagull Environmental Technologies, Inc. **Service Request:** K1403129
Project: Missouri Electric Works **Date Extracted:** 04/11/2014
Sample Matrix: Finfish

Extraction Prep Log
Polychlorinated Biphenyls (PCBs)

Extraction Method: EPA 3541 **Extraction Lot:** KWG1403897
Analysis Method: 8082A **Level:** Low

Sample Name	Lab Code	Date Collected	Date Received	Sample Amount	Final Volume	% Solids	Note
Largemouth Bass (Lowland Pond)	K1403129-001	03/26/14	03/28/14	20.021g	4mL	24.8	
Method Blank	KWG1403897-4	NA	NA	20.396g	4mL	NA	
Largemouth Bass (Lowland Pond)M	KWG1403897-1	03/26/14	03/28/14	20.061g	4mL	24.8	
Largemouth Bass (Lowland Pond)I	KWG1403897-2	03/26/14	03/28/14	20.068g	4mL	24.8	
Lab Control Sample	KWG1403897-3	NA	NA	20.396g	4mL	NA	

Results flagged with an asterisk (*) indicate the holding time was exceeded for the analysis

ALS Group USA, Corp. dba ALS Environmental

Confirmation Results

Client:	Seagull Environmental Technologies, Inc.	**Service Request:**	K1403129
Project:	Missouri Electric Works	**Date Collected:**	03/26/2014
Sample Matrix:	Finfish	**Date Received:**	03/28/2014
		Date Extracted:	04/11/2014

Polychlorinated Biphenyls (PCBs)

Sample Name:	Largemouth Bass (Lowland Pond)	**Units:**	ug/Kg
Lab Code:	K1403129-001	**Basis:**	Dry
		Level:	Low
Extraction Method:	EPA 3541		
Analysis Method:	8082A		

Analyte Name	MRL	MDL	Primary Result	Confirmation Result	RPD	Q	Dilution Factor	Date Analyzed
Aroclor 1260	810	230	27000	29000	7.1	D	20	04/28/14

Raw Data

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360)577-7222 Fax (360)636-1068
www.alsglobal.com

Metals

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360)577-7222 Fax (360)636-1068
www.alsglobal.com

COLUMBIA ANALYTICAL SERVICES, INC.

Service Request #: K1403129

Analysis For: Freeze Dried Solids

Lab Code	Wet Weight (g)	Tare (g)	Tare + Dry Wt.(g)	Dry Weight (g)	**% Total Solids**	% Moisture
K1403129-001	8.008	16.689	18.674	1.985	**24.8**	75.2
K1403129-001 Dup	9.074	16.791	18.964	2.173	**23.9**	76.1

4/14/14

Comments:

Data Entry By:	Lance Jordy	Date:	4/14/14
Reviewed By:		Date:	4/14/14

Columbia Analytical Services, Inc.

Service Request #: K1403129
Analysis For: Freeze Dried Solids

Lab Code	Wet Weight (g)	Tare (g)	Tare + Dry Wt.(g)	Dry Weight (g)	% Total Solids
K1403129-001	8.008	16.684	18.674		
K1403129-001 Dup	9.074	16.791	18.964		

Date/Time in Freeze Dryer: 11:00 Am 4/11/14 Date/Time out of Freeze Dryer: 7:30 am 4/14/14

Balance ID: 21B Initial Date Balance checked: 4/10/14

After Freeze Drying Balance Check: 4/14/14

Weigh 8 to 10 grams

Comments:

High - Low / Average = RPD x = RPD

Analyst: [illegible]	Date: 4/10/14
Reviewed By: [illegible]	Date: 4/14/14

R:ICP\MISC\DIGFORMS\FISH TISSUE ALIQUOT BENCH SHEETS

Columbia Analytical Services, Inc.

Service Request Number(s):
K1403129

Blank Data

Laboratory ID		Date	Time	Bottle Type	Preservative	
Rinsate Blank		4/10/2014	11:45Am	1 L Amber	None	
Homogenization Blank		4/10/2014	1:35Pm	1 L Amber	None	

Comments:

* The weight of sample Is after homogenization.

Balance ID:	Date Balance Checked:
Analyst: Tyler Reinhardt	Date: 4/10/14
Reviewed:	Date: 4/14/14

R\:ICP\misc\digforms\TISSUE Aliquot Bench Sheets2

Columbia Analytical Services, Inc.

Service Request Number(s):
K1403129
Analysis for: PCB/Lipids

ALIQUOT DATA

Service Request #		Wet Wt. (g)		Tare Wt. (g)		Matrix
K1403129-001		20.021		198.983		Fish
K1403129-001 MS		20.061		199.137		
K1403129-001 DMS		20.068		198.711		

R 4/10

Comments: Weigh 20 g in a 8 oz. jar with MS/DMS

Balance ID: 21B	Date Balance Checked: 4/10/14
Analyst: [signature]	Date: 4/10/14
Reviewed: [signature]	Date: 4/14/14

R\:ICP\misc\digforms\TISSUE Aliquot Bench Sheets2

Columbia Analytical Services, Inc.

Service Request Number(s):
K1403129

TISSUE WHOLE BODY HOMOGENIZATION

Laboratory ID	Weight of Sample* (g)	Tare of Jar (g)				
K1403129-001	763.25	475.27				

R 4/10

Comments:

* The weight of sample Is after homogenization.

Balance ID: 23	Date Balance Checked: 4/10/14
Analyst: [signature]	Date: 4/10/14
Reviewed: [signature]	Date: 4/14/14

R\:ICP\misc\digforms\TISSUE Aliquot Bench Sheets2

LIPIDS

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360)577-7222 Fax (360)636-1068
www.alsglobal.com

% Lipids - As Received - Electronic Benchsheet

wo #	wet wt	dish	dish/lip	% lip	mb corr	% lipids (rounded)	MRL
K1403129-001	20.021	1.3623	1.3897	0.684282	0.0001	0.68	0.02
KQ1403721-09 MB	20.396	1.3584	1.3585	0.002451	0.0001	0.00	0.02
K1403129-001 MS	20.061	1.3584	1.3875	0.725288	0.0001	0.73	0.02
K1403129-001 DMS	20.068	1.3265	1.3546	0.700120	0.0001	0.70	0.02
KQ1403721-10 LCS	0.924	1.3629	1.5218	85.98485	0.0001	86	0.54

Reviewed By: Elissa Bruno Date: 4-16-14

% Lipids - Dry Weight Basis - Electronic Benchsheet

wo #	wet wt	% solids	dry wt	dish	dish/lip	% lip	mb corr	% lipids (rounded)	MRL
K1403129-001	20.021	24.8	4.965	1.3623	1.3897	2.759200	0.0000	2.8	0.10
KQ1403721-09 MB	20.396	100.0	20.396	1.3584	1.3585	0.002451	0.0000	0.0	0.02
K1403129-001 DUP	20.061	24.8	4.975	1.3584	1.3875	2.924548	0.0000	2.9	0.10
K1403129-001 TRP	20.068	24.8	4.977	1.3265	1.3546	2.823063	0.0000	2.8	0.10

Reviewed By: Elissa Bruno Date: 4-16-14

COLUMBIA ANALYTICAL SERVICES, INC.

Service Request #: K1403129

Analysis For: Freeze Dried Solids

Lab Code	Wet Weight (g)	Tare (g)	Tare + Dry Wt.(g)	Dry Weight (g)	**% Total Solids**	% Moisture
K1403129-001	8.008	16.689	18.674	1.985	**24.8**	75.2
K1403129-001 Dup	9.074	16.791	18.964	2.173	**23.9**	76.1

Comments:

Data Entry By:	Date:
Reviewed By:	Date:

Lipids Raw Benchsheet

①

Lab ID	Client ID	Sample Weight (g)	Wt. Dish (g)	Wt. Dish + Lipid (g)
K1403129-001	Largemouth Bass (Lowland Pond)	20.021	1.3623	1.3897
KQ1403721-09 MB	Method Blank	20.396	1.3584	1.3585
K1403129-001 MS	Sample Duplicate	20.061	1.3584	1.3875
K1403129-001 DMS	Sample Triplicate	20.068	1.3265	1.3546
KQ1403721-10 LCS	Laboratory Control Sample	0.924	1.3629	1.5218

Extraction Start Time/Date:	14:30 4/11/14	**Extraction Method:**	3541
Extraction Stop Time/Date:	17:40 4/11/14	**DCM Lot #:**	D5982
Extracted By:	JJ	**Sulfate Lot #:**	132318
Intermediate Volume of Extracts:	10mL	**Aliquot used for % Lipids:**	2mL
Date Analyzed:	4/15/14	**Balance ID:**	K Balance 40
Analyzed By:	CV		

Prep Run #: 205981

Dry Reporting

Reviewed By: Elissa Bruno Date: 4-16-14

Preparation Information Benchsheet

4-11-14 JJ

Prep Run: 205981 **Prep Workflow:** OrgExtT (14) **Status:** Draft **Prep Date:** ~~04/10/2014~~ 15:43

Team: Semivoa GC **Prep Method:** EPA 3541 **Current Step:** Extraction **Due Date:** 04/04/2014

Analyst: JJohnson **Rush/NPDES:** N/A **Hold Date:** 04/09/2014

Lab Code	Client ID	Bottle #	✓	Target Amt	Initial Amount g	Inter. Volume mL	Final Volume mL	Surr Amt uL	Spike Amt uL	TestNo List
K1403129-001	Largemouth Bass (Lowland Pond)	~~.03~~ .05	✓	AL aliquot	20.021	10		200	—	LIPIDS, PCB
K1403129-001: KQ1403721-06	Matrix Spike	~~.03~~ .04	✓		20.061	10			100/100	LIPIDS, PCB
K1403129-001: KQ1403721-07	Duplicate Matrix Spike	.03	✓		20.068	10			100/100	LIPIDS, PCB
KQ1403721-08	Lab Control Sample			20	20.396	10			100/100	PCB
KQ1403721-10	Lab Control Sample				20.00 (0.424)	10			1000 oil	LIPIDS
KQ1403721-09	Method Blank				20.396	10			—	LIPIDS, PCB

6 Total Samples consisting of 1 Client Sample, 2 Client QC Samples, 3 Batch QC Samples associated with the current Prep Run.

Spiking Solutions **Witness:** KClark 4/11/14

Surr: PCB6-37M Exp: 9/19/14 2.0 ppm 200 uL (epp: 10D)

Spike: SVMP-005-22U Exp: 12-27-14, 1016: PCB6-33H Exp: 7/27/14 40ppm 100uL (epp2A)
1260: PCB6-33J Exp: 7/28/14 40ppm 100uL (epp2A)

Preparation Steps

Step	Started	Finished	By	Assisted By	Training?	Comments
Extraction	4-11-14		JJohnson			
Final Volume						

Comments

Polychlorinated Biphenyls

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360)577-7222 Fax (360)636-1068
www.alsglobal.com

Preparation Information

Group ID:	KWG1403343	**Prep Method:**	EPA 3541	**Prep Date:**	04/11/14 14:30
Department:	Semivoa GC				

Lab Code	Client ID	Product	Matrix	Amt. Ext.	Final Vol.	Solids
K1403129-001	Largemouth Bass (Lowland P	8082A PCB	FINFISH	20.021g	4mL	
KWG1403343-1	Matrix Spike	8082A PCB	FINFISH	20.061g	4mL	
KWG1403343-2	Duplicate Matrix Spike	8082A PCB	FINFISH	20.068g	4mL	
KWG1403343-3	Lab Control Sample	8082A PCB	FINFISH	20.396g	4mL	
KWG1403343-4	Method Blank	8082A PCB	FINFISH	20.396g	4mL	

Lab Code	Parent Lab Code	Comments
KWG1403343-1	K1403129-001	KQ1403721-06
KWG1403343-2	K1403129-001	KQ1403721-07
KWG1403343-3		KQ1403721-08
KWG1403343-4		KQ1403721-09

Lab Code	Prep Event ID	Surrogate Solution ID	Amount Added	Spike Solution ID	Amount Added	Witness
K1403129-001	1335597					KClark
KWG1403343-1	1335598					KClark
KWG1403343-2	1335599					KClark
KWG1403343-3	1335600					KClark
KWG1403343-4	1335601					KClark

Comments:

Started By: JJohnson Assisted By: Training Yes No

Completed By: KMiller Assisted By: Yes No

Reviewed By: EB Date: 4-17-14 Storage:

Chain of Custody

Relinquished By: Date: 4-15-14 Extracts Examined

Received By: Date: Yes No

Preparation Information

Group ID:	KWG1403897	**Prep Method:**	EPA 3541	**Prep Date:**	04/11/14 14:30
Department:	Semivoa GC				

Lab Code	Client ID	Product	Matrix	Amt. Ext.	Final Vol.	Solids
K1403129-001	Largemouth Bass (Lowland P	8082A PCB	FINFISH	20.021g	4mL	
KWG1403897-1	Matrix Spike	8082A PCB	FINFISH	20.061g	4mL	
KWG1403897-2	Duplicate Matrix Spike	8082A PCB	FINFISH	20.068g	4mL	
KWG1403897-3	Lab Control Sample	8082A PCB	FINFISH	20.396g	4mL	
KWG1403897-4	Method Blank	8082A PCB	FINFISH	20.396g	4mL	

Lab Code	Parent Lab Code	Comments
KWG1403897-1	K1403129-001	
KWG1403897-2	K1403129-001	

Lab Code	Prep Event ID	Surrogate Solution ID	Amount Added	Spike Solution ID	Amount Added	Witness
K1403129-001	1338711					KClark
KWG1403897-1	1338712					KClark
KWG1403897-2	1338713					KClark
KWG1403897-3	1338714					KClark
KWG1403897-4	1338715					KClark

Comments: Printed for new matrix type stealth error. SS 4/30/14
See original for more information.

Started By: JJohnson Assisted By: _____ Training Yes No

Completed By: KMiller Assisted By: _____ Yes No

Reviewed By: _____ Date: _____ Storage: _____

Chain of Custody

Relinquished By: _____ Date: _____ Extracts Examined

Received By: _____ Date: _____ Yes No

Preparation Information Benchsheet

4-11-14 JJ

Prep Run: 205981 **Prep Workflow:** OrgExtT (14) **Status:** Draft **Prep Date:** ~~04/10/2014~~ 15:43

Team: Semivoa GC **Current Step:** Extraction **Due Date:** 04/04/2014

Analyst: JJohnson **Prep Method:** EPA 3541 **Hold Date:** 04/09/2014

Rush/NPDES: N/A

Lab Code	Client ID	Bottle #	✓	Target Amt	Initial Amount g	Inter. Volume mL	Final Volume mL	Surr Amt uL	Spike Amt uL	TestNo List
K1403129-001	Largemouth Bass (Lowland Pond)	~~.03~~ .05	✓	ALiquot	20.021	10	4	200	—	LIPIDS, PCB
K1403129-001: KQ1403721-06	Matrix Spike	~~.03~~ .04	✓		20.061	10	4		100/100	LIPIDS, PCB
K1403129-001: KQ1403721-07	Duplicate Matrix Spike	.03	✓		20.068	10	4		100/100	LIPIDS, PCB
KQ1403721-08	Lab Control Sample			20	20.396	10	4		100/100	PCB
* KQ1403721-10	~~Lab Control Sample~~				~~20.00~~	~~10~~	~~4~~		~~1000~~	LIPIDS ~~oil~~
KQ1403721-09	Method Blank				20.396	10	4		—	LIPIDS, PCB

6 Total Samples consisting of 1 Client Sample, 2 Client QC Samples, 3 Batch QC Samples associated with the current Prep Run.

Spiking Solutions **Witness:** KLavK 4/11/14

Surr: PCB6-37M EXP: 9/19/14 2.0 PPM 200 uL (epp: 10D)

Spike: SVMP-005-22U EXP: 12-27-14, 1016: PCB6-33H EXP: 7/27/14 40PPM 100uL (epp2A)
1260: PCB6-33J EXP: 7/28/14 40ppm 100uL (epp2A)

Preparation Steps

Step	Started	Finished	By	Assisted By	Training?	Comments
Extraction	4-11-14		JJohnson			
Final Volume		4-15-14	K			

*-Not crossed out. Us for lipids analysis. EE 4-17-14 EB

Comments

GPC RUNLOG

Run Date: 4/14/2014 **Calibration Date:** 4/10/2014

GPC #: 5 **Program Number:** 2

Lab I.D.		Position	Test	Dilution	Comments
Blank		1	pcb-l	NA	tissue
k3721	mb	2	pcb-l	NA	tissue
k3721	lcs	3	pcb-l	NA	tissue
Blank		4	pcb-l	NA	tissue
3129	1	5	pcb-l	NA	tissue
3129	1 ms	6	pcb-l	NA	tissue
3129	1 dms	7	pcb-l	NA	tissue
		8			
		9			
		10			
		11			
		12			
		13			
		14			
		15			
		16			
		17			
		18			
		19			
		20			
		21			
		22			
		23			

Final Volume Calculation

Intermediate Volume before GPC:	10	mL
Aliquot taken from intermediate volume:	8	mL
Aliquot diluted up to....	8	mL
Volume Injected onto column:	5	mL
GPC'd Extract brought to the Final Volume of:	2	mL
Calculated True Final Volume:	4	mL

Operator Date and Initial: 04/14/2014 km

Columbia Analytical Services, Inc.

Service Request Number(s):
K1403129
Analysis for: PCB/Lipids

ALIQUOT DATA

Service Request #		Wet Wt. (g)		Tare Wt. (g)		Matrix
K1403129-001		20.021		198.983		Fish
K1403129-001 MS		20.061		199.137		
K1403129-001 DMS		20.068		198.711		

R 4/10

Comments: Weigh 20 g in a 8 oz. jar with MS/DMS

Balance ID: 21B	Date Balance Checked: 4/10/14
Analyst: [signature]	Date: 4/10/14
Reviewed:	Date:

R:\ICP\misc\digforms\TISSUE Aliquot Bench Sheets2

Additional Prep Information For Pest/PCB Tissues by 3541

Service Request # K1403179 Work Group # 205981

Solvents/Reagents used:

Date/Time/Initials Weighed: 4-11-14/1130/JJ Balance ID: K-Balance-3 Calibration Verified ☒

Storage Location (if not extracted same day): —

DCM Lot # DJ982 Sulfate Lot # 132318

Soxtherm Start (Time/Date/Initial): 1430/4-11-14/JJ

Soxtherm Stop (Time/Date/Initial): 1740/4-11-14/JJ

Cleanups:

N-Evap (Date/Time/Initial): 4-14-14 8:00 K N-Evap Thermometer ID: XSVM001

Temp as measured: 35 °C Correction factor: 0 °C Adjusted temp: 35 °C

GPC Clean-up (3640) (Time/Date/Initial): 12:30 4-14-14 K (all samples)

Solvent Exchanged To Hexane (Time/Date/Initial): 8:15 4-15-14 K Hexane Lot #: 67123

S-Evap (Date/Time/Initial): 4-15-14 8:15 K S-Evap Thermometer ID: XSVM006

Temp as measured: 75 °C Correction factor: 0 °C Adjusted temp: 75 °C

N-Evap (Date/Time/Initial): 4-15-14 9:00 K N-Evap Thermometer ID: XSVM001

Temp as measured: 35 °C Correction factor: 0 °C Adjusted temp: 35 °C

Florisil Clean-up (3620) (Time/Date/Initial): — Florisil Lot #: —

1:1 Hexane:Acetone Lot #: — 9:1 Hexane:Acetone Lot #: —

N-Evap (Date/Time/Initial): — N-Evap Thermometer ID: —

Temp as measured: — °C Correction factor: — °C Adjusted temp: — °C

Sulfuric Acid Clean-up (3665) (Time/Date/Initial): 11:15 4-15-14 K Acid Lot #: 53002

Pest Vial: — Vial Storage:

PCB Vial: Green Vial Storage: Ludwig H1-5

Archived Extract Storage: Hot Potato

Comments/Observations:

Bench Sheet Review Check List
☑ Hold Times Met (if no, Reason: Frozen samples used)
☑ Prep date, dept, method, product code correct in stealth
☑ Spike Information correct
☑ Weights/Volumes and units correct on raw and final bench sheets
☑ Sample IDs have been checked—Bottle numbers appended if required
☑ Names present for: Started by, Completed by, relinquished by, and witnessed by.
☑ Training has been circled
☑ Extract Storage recorded
☑ Additional Prep Sheet completely filled out (NA or line out Blanks)
☑ All clean-ups have been noted on additional prep sheet
☑ Signed service request with Form V, if applicable, has been attached

DILUTION LOG

LAB ID	ALIQUOT	FINAL VOLUME	DILUTION FACTOR	DATE	ANALYST	hexane SOLVENT LOT	COMMENTS
K1103429-001	50ml	1000ml	20x	04/19/14	[illegible]	53155	target Aroclor over range
-001MS	↓	↓	↓	↓	↓	↓	↓
-001DMS	↓	↓	↓	↓	↓	↓	↓

Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC28\DATA\042714.B\0427F007.D
Lab ID: K1403129-001
RunType: SMPL
Matrix: FINFISH

Date Acquired: 04/28/2014 03:24
Date Quantitated: 04/30/2014 09:19
Batch ID: KWG1403893
Analysis Method: 8082A
ListJoinID: LJ15185

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
Preparation Holding Time	NA	NA	NA	x	
Pre-Preparation Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Method Blank	NA	NA	NA	x	
MB Surrogate Recovery	NA	NA	NA	x	
Lab Control Spike	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Primary Review: SS 4/30/14

Secondary Review: [illegible] 5/2/14

Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC28\DATA\042714_R.B\0427F007.D
Lab ID: K1403129-001
RunType: SMPL
Matrix: FINFISH

Date Acquired: 04/28/2014 03:24
Date Quantitated: 04/30/2014 09:19
Batch ID: KWG1403893
Analysis Method: 8082A
ListJoinID: LJ15185

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
Preparation Holding Time	NA	NA	NA	x	
Pre-Preparation Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Method Blank	NA	NA	NA	x	
MB Surrogate Recovery	NA	NA	NA	x	
Lab Control Spike	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Primary Review: SS 4/30/14

Secondary Review: [illegible]

Quantitation Report

Data File #1:	J:\GC28\DATA\042714.B\0427F007.D			**Instrument:**	GC28.i
Data File #2:	\\alklsws002\instdata\GC28\Data\042714_r.b\0427F007.D			**Vial:**	3
Acqu Date:	04/28/2014 03:24	**Quant Date:**	04/30/2014 09:19	**Dilution:**	20.0
Run Type:	SMPL			**Soln Conc. Units:**	ng/mL
Lab ID:	K1403129-001				
Signal #1:	DB-XLB	**Signal #2:**	DB-35MS		

Bottle ID:		**Tier:**	IV	**Matrix:**	FINFISH
Prod Code:	8082A PCB	**Collect Date:**	03/26/2014	**Receive Date:**	03/28/2014

Analysis Lot:	KWG1403893	**Prep Lot:**	KWG1403897	**Report Group:**	K1403129
Analysis Method:	8082A	**Prep Method:**	EPA 3541		
Prep Ref:	1338711	**Prep Date:**	04/11/2014		

Quant Method:	\\ALKLSWS002\INSTDATA\GC28\DATA\042714.B\042414_F.M	**Calibration ID:**	CAL13284
Title:	Polychlorinated Biphenyls (PCBs)	**Report List ID:**	LJ15185
MB Ref:	J:\GC28\DATA\042714.B\0427F006.D	**Method ID:**	MJ1038
		Quant based on Report List	

Surrogate Compounds

Parameter Name	RT #1	RT #2	Resp #1	Respe #2	ng/mL #1	ng/mL #2			Rpt
Decachlorobiphenyl	14.17 +0.01	12.48 +0.01	558166	3291529	4.93	4.64			99 OK
				%Recovery =	99 OK	93 OK	Limits =	37-139	

Target Compounds

Final Conc. Units: ug/Kg Dry Weight

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Aroclor 1016 {1}			0d	0d	0.0000	0.0000	230U	230U	
Aroclor 1016			0	0	0.0000	0.0000	230U	230U	230U
Aroclor 1016 {2}			0d	0d	0.0000	0.0000	230U	230U	
Aroclor 1016 {3}			0d	0d	0.0000	0.0000	230U	230U	
Aroclor 1016 {4}			0d	0d	0.0000	0.0000	230U	230U	
Aroclor 1016 {5}			0d	0d	0.0000	0.0000	230U	230U	
Aroclor 1221 {1}			0	0d	0.0000	0.0000	230U	230U	
Aroclor 1221			0	0	0.0000	0.0000	230U	230U	230U
Aroclor 1221 {2}			0	0d	0.0000	0.0000	230U	230U	
Aroclor 1221 {3}			0	0d	0.0000	0.0000	230U	230U	
Aroclor 1232 {1}			0d	0d	0.0000	0.0000	230U	230U	
Aroclor 1232			0	0	0.0000	0.0000	230U	230U	230U
Aroclor 1232 {2}			0d	0d	0.0000	0.0000	230U	230U	
Aroclor 1232 {3}			0d	0d	0.0000	0.0000	230U	230U	
Aroclor 1232 {4}			0d	0d	0.0000	0.0000	230U	230U	
Aroclor 1232 {5}			0d	0d	0.0000	0.0000	230U	230U	
Aroclor 1242 {1}			0	0d	0.0000	0.0000	230U	230U	
Aroclor 1242			0	0	0.0000	0.0000	230U	230U	230U
Aroclor 1242 {2}			0	0d	0.0000	0.0000	230U	230U	

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File #1:	J:\GC28\DATA\042714.B\0427F007.D			**Instrument:**	GC28.i
Data File #2:	\\alklsws002\instdata\GC28\Data\042714_r.b\0427F007.D			**Vial:**	3
Acqu Date:	04/28/2014 03:24	**Quant Date:**	04/30/2014 09:19	**Dilution:**	20.0
Run Type:	SMPL			**Soln Conc. Units:**	ng/mL
Lab ID:	K1403129-001				
Signal #1:	DB-XLB	**Signal #2:**	DB-35MS		

Target Compounds

Final Conc. Units: ug/Kg Dry Weight

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Aroclor 1242 {3}			0	0d	0.0000	0.0000	230U	230U	
Aroclor 1242 {4}			0	0d	0.0000	0.0000	230U	230U	
Aroclor 1242 {5}			0	0d	0.0000	0.0000	230U	230U	
Aroclor 1248 {1}			0d	0d	0.0000	0.0000	230U	230U	
Aroclor 1248			0	0	0.0000	0.0000	230U	230U	230U
Aroclor 1248 {2}			0d	0d	0.0000	0.0000	230U	230U	
Aroclor 1248 {3}			0d	0d	0.0000	0.0000	230U	230U	
Aroclor 1248 {4}			0d	0d	0.0000	0.0000	230U	230U	
Aroclor 1248 {5}			0d	0d	0.0000	0.0000	230U	230U	
Aroclor 1254 {1}			0d	0d	0.0000	0.0000	230U	230U	
Aroclor 1254			0	0	0.0000	0.0000	230U	230U	230U
Aroclor 1254 {2}			0d	0d	0.0000	0.0000	230U	230U	
Aroclor 1254 {3}			0d	0d	0.0000	0.0000	230U	230U	
Aroclor 1254 {4}			0d	0d	0.0000	0.0000	230U	230U	
Aroclor 1254 {5}			0d	0d	0.0000	0.0000	230U	230U	
Aroclor 1260 {1}	8.43 +0.01	7.82 +0.01	5020498	15341144m	780.12	876.11	13000D	14000D	
Aroclor 1260			0	0	1,805	1,704	29000D	27000D	**27000**D
Aroclor 1260 {2}	9.73 +0.01	8.26 +0.01	16019423	89960334m	3,436	3,096	55000D	50000D	
Aroclor 1260 {3}	10.20 +0.01	8.83 +0.01	3507534	15663364m	686.41	533.45	11000D	8600D	
Aroclor 1260 {4}	10.88 +0.01	9.29 +0.01	24745074	148486366m	2,148	2,084	35000D	34000D	
Aroclor 1260 {5}	11.53 +0.01	10.09 +0.01	14794091	103803445m	1,976	1,930	32000D	31000D	

The -/+ after Retention Time symbolize the direction of the RT shift

Prep Amount:	20.021 g	**Dilution:**	20.0
Prep Final Vol:	4 mL	**Unit Factor:**	1
Solids:	24.8 %		

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / (Prep Amount x Solids)) x Unit Factor

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File: \\alklsws002\instdata\GC28\Data\042714.b\0427F007.D
Report Date: 30-Apr-2014 09:19

CAS

Sample #1 : \\alklsws002\instdata\GC28\Data\042714.b\0427F007.D
Sample #2 : \\alklsws002\instdata\GC28\Data\042714_r.b\0427F007.D
Inj Date : 28-APR-2014 03:24
Sample Info: K1403129-001 @ 20X
Misc Info :
Cal Date : 28-APR-2014 22:13
Operator : JMSmith
Inst ID : GC28.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC28\Data\042714.b\042414_f.m
Method #2 : \\alklsws002\instdata\GC28\Data\042714_r.b\042414_r.m
Sub List #1 : ALL.SUB
Sub List #2 : ALL.SUB
Col #1 Phase : DB-XLB
Col #2 Phase : DB-35MS

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Tetrachloro-m-xylene	4.532	3.942	435554	1918705	3.78	3.18		100.00
Aroclor 1260	8.432	7.822	5020498	15341144	780	876	80.00- 120.00	100.00
	9.732	8.262	16019423	89960334	3440	3100	59.87- 89.80	319.08
	10.195	8.825	3507534	15663364	686	533	62.64- 93.96	69.86
	10.882	9.289	24745074	148486366	2150	2080	140.82- 211.23	492.88
	11.529	10.089	14794091	103803445	1980	1930	94.76- 142.14	294.67
			Average of Peak Amounts =		1810	1700		
Decachlorobiphenyl	14.172	12.482	558166	3291529	4.93	4.64		100.00
Aroclors, Total	0.000	0.000	12817324	74650930	1810	1700		0.00

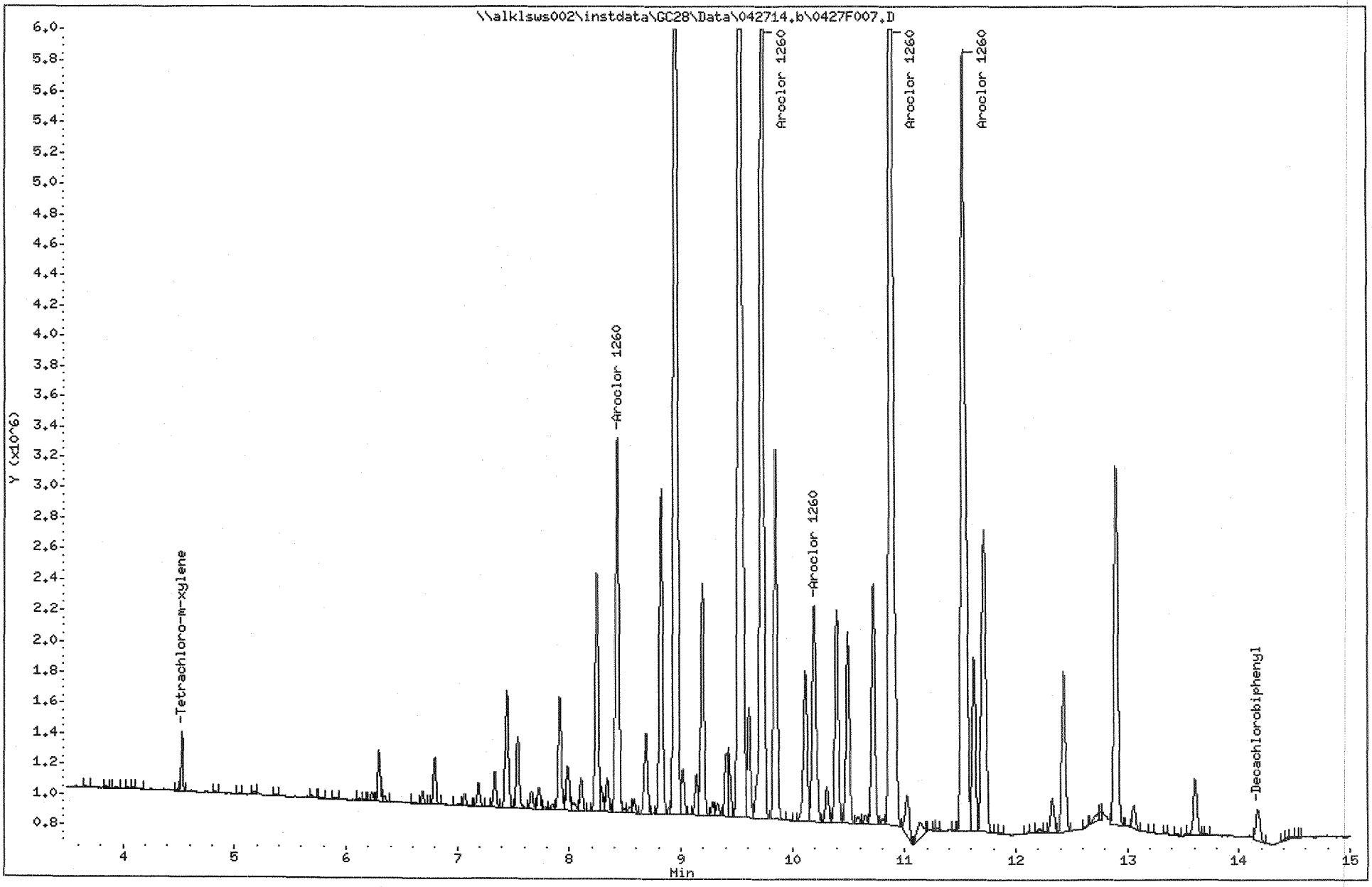
Data File: \\alklsws002\instdata\GC28\Data\042714.b\0427F007.D
Date : 28-APR-2014 03:24
Client ID:
Sample Info: K1403129-001 @ 20X

Instrument: GC28.i

Operator: JMSmith

Column phase: DB-XLB

Column diameter: 0.32



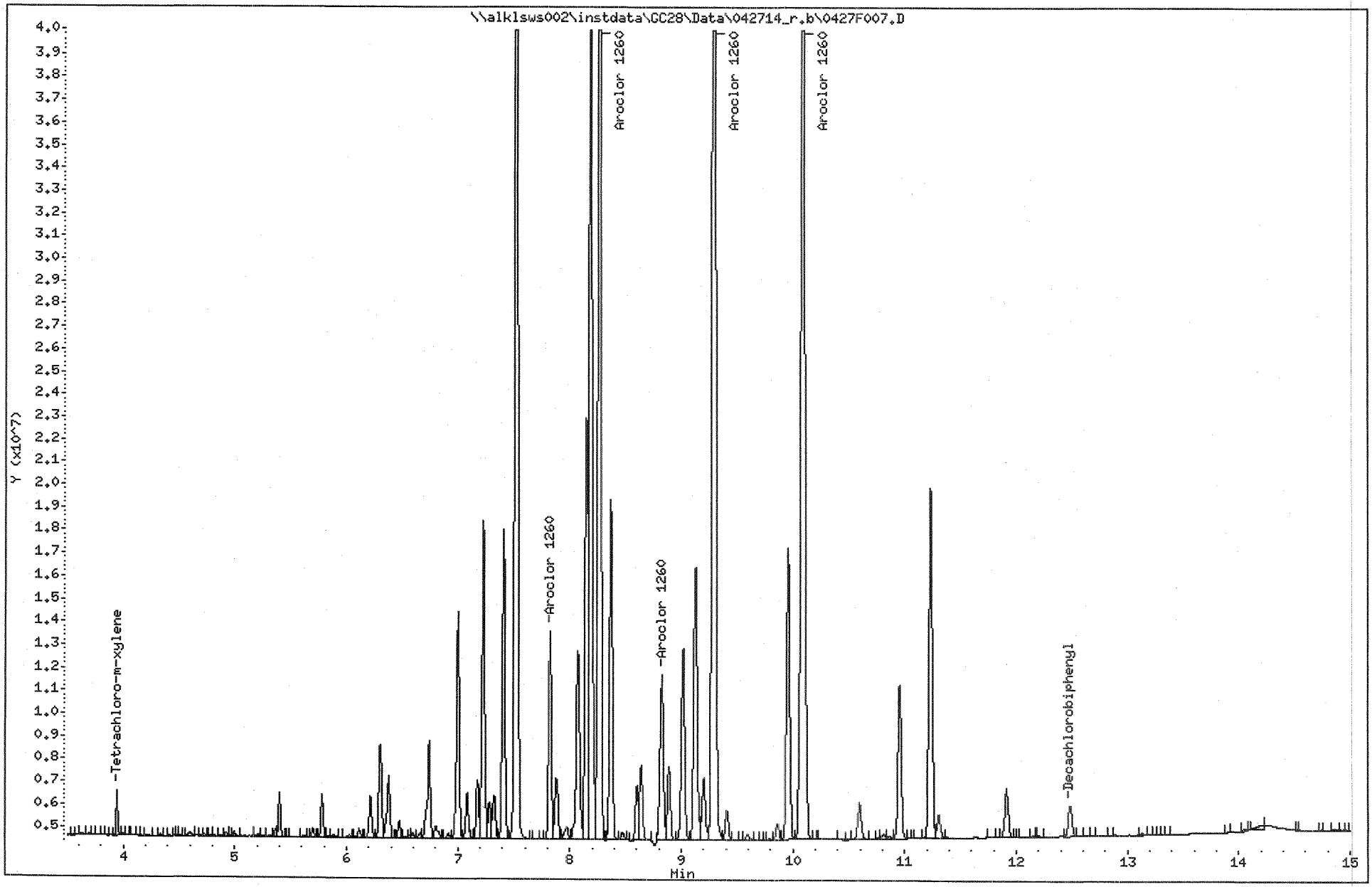
Data File: \\alklsws002\instdata\GC28\Data\042714_r.b\0427F007.D
Date : 28-APR-2014 03:24
Client ID:
Sample Info: K1403129-001 @ 20X

Instrument: GC28.i

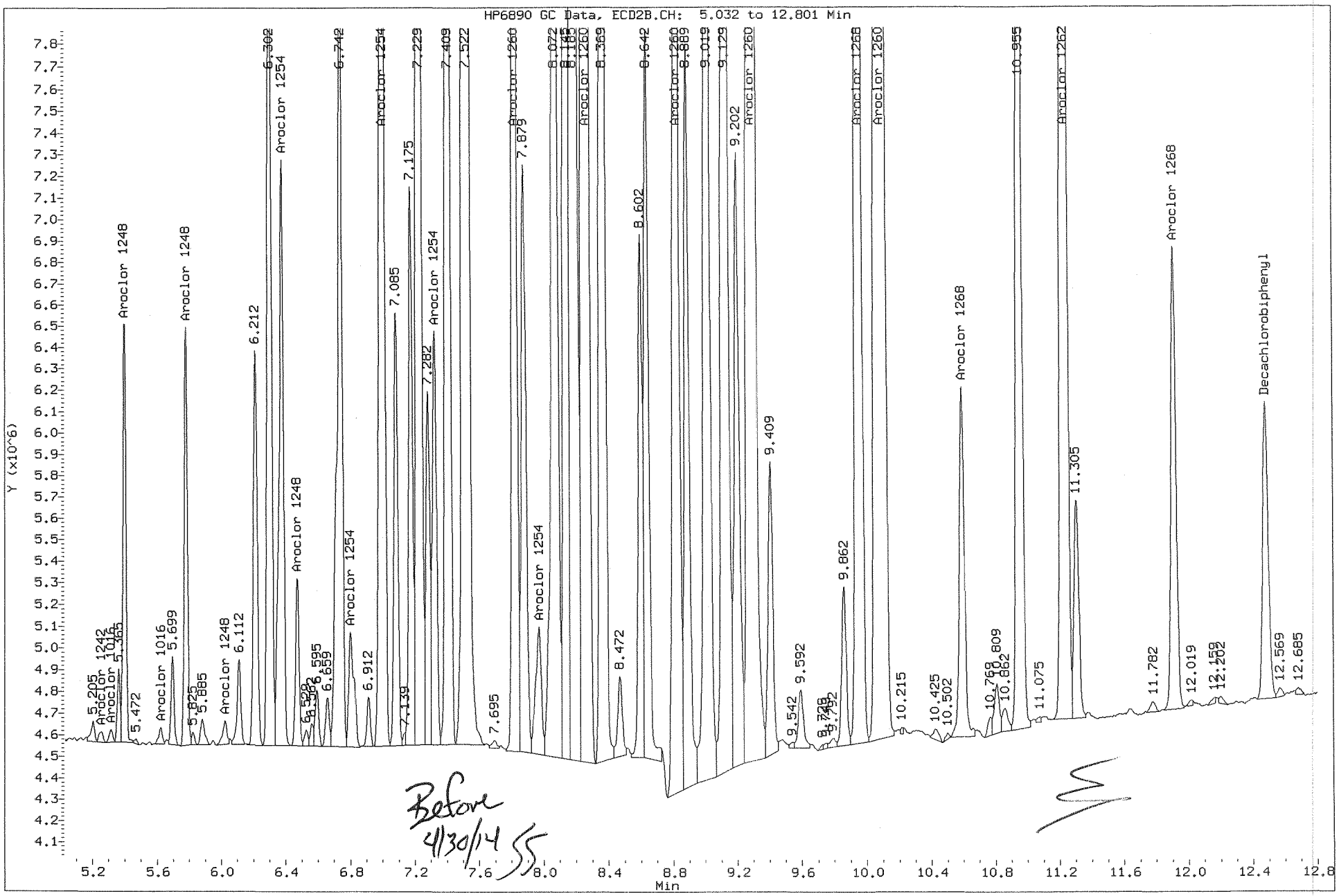
Operator: JMSmith

Column phase: DB-35MS

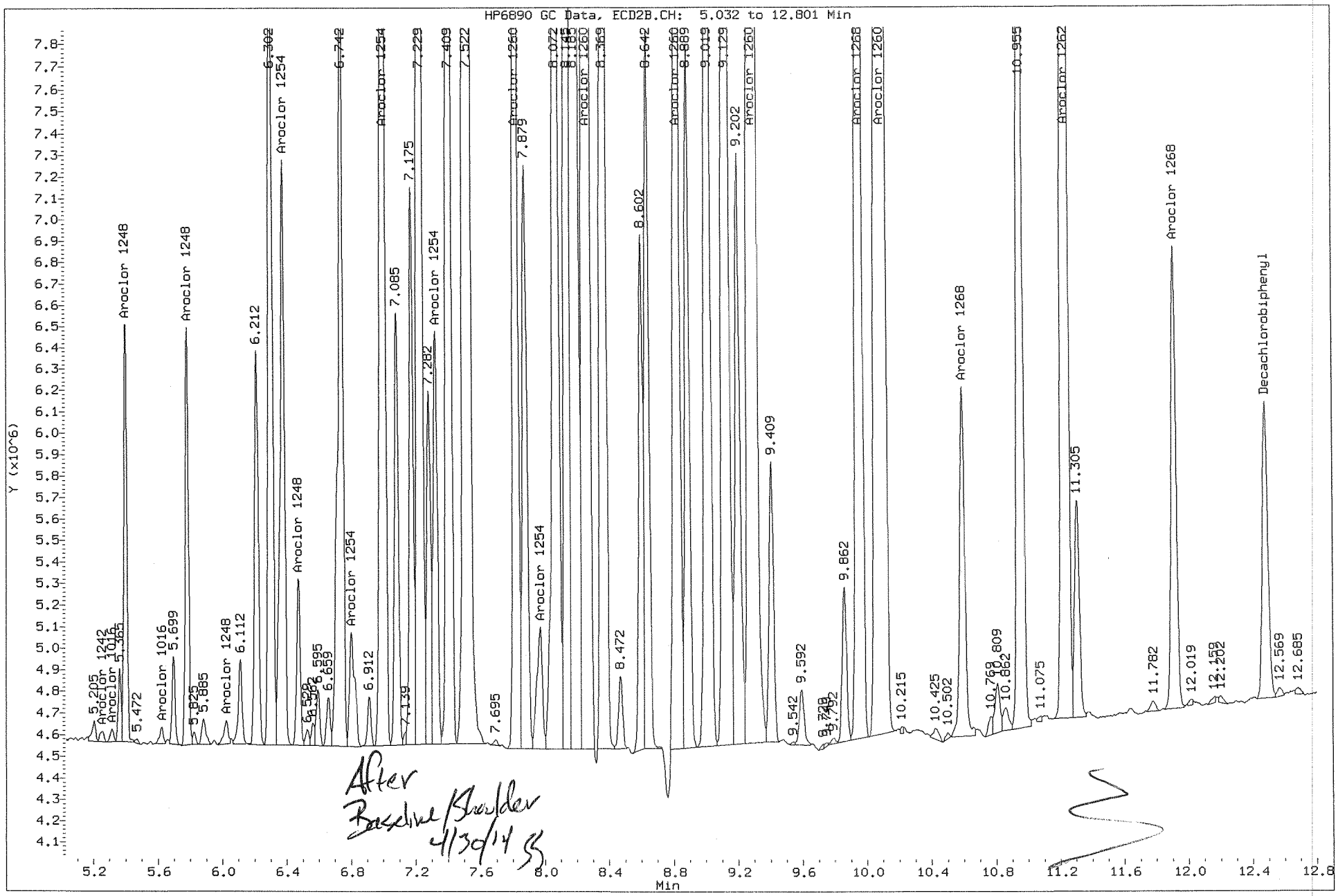
Column diameter: 0.32



Data File: \\alklsws002\instdata\GC28\Data\042714_r.b\0427F007.D
Injection Date: 28-APR-2014 03:24
Instrument: GC28.i
Client Sample ID:



Data File: \\alklsws002\instdata\GC28\Data\042714_r.b\0427F007.D
Injection Date: 28-APR-2014 03:24
Instrument: GC28.i
Client Sample ID:



Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC28\DATA\042714.B\0427F006.D
Lab ID: KWG1403897-4
RunType: MB
Matrix: FINFISH

Date Acquired: 04/28/2014 03:01
Date Quantitated: 04/30/2014 09:19
Batch ID: KWG1403893
Analysis Method: 8082A
MethodJoinID: MJ1038

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Primary Review: SS 4/30/14

Secondary Review: [illegible]

Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC28\DATA\042714_R.B\0427F006.D
Lab ID: KWG1403897-4
RunType: MB
Matrix: FINFISH

Date Acquired: 04/28/2014 03:01
Date Quantitated: 04/30/2014 09:19
Batch ID: KWG1403893
Analysis Method: 8082A
MethodJoinID: MJ1038

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Primary Review: SS 4/30/14

Secondary Review:

Quantitation Report

Data File #1:	J:\GC28\DATA\042714.B\0427F006.D			**Instrument:**	GC28.i
Data File #2:	\\alklsws002\instdata\GC28\Data\042714_r.b\0427F006.D			**Vial:**	2
Acqu Date:	04/28/2014 03:01	**Quant Date:**	04/30/2014 09:19	**Dilution:**	1.0
Run Type:	MB			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1403897-4				
Signal #1:	DB-XLB	**Signal #2:**	DB-35MS		

Bottle ID:		**Tier:**		**Matrix:**	FINFISH
Prod Code:	8082A PCB	**Collect Date:**		**Receive Date:**	04/30/2014

Analysis Lot:	KWG1403893	**Prep Lot:**	KWG1403897	**Report Group:**	
Analysis Method:	8082A	**Prep Method:**	EPA 3541		
Prep Ref:	1338715	**Prep Date:**	04/11/2014		

Quant Method:	\\ALKLSWS002\INSTDATA\GC28\DATA\042714.B\042414_F.M	**Calibration ID:**	CAL13284
Title:			
MB Ref:		**Method ID:**	MJ1038
		Quant based on Method	

Surrogate Compounds

Parameter Name	RT #1		RT #2		Resp #1	Respe #2	ng/mL #1		ng/mL #2				Rpt	
Tetrachloro-m-xylene	4.54	+0.01	3.94	+0.00	9667928	52624649	83.88		87.13				87	OK
						%Recovery =	84	OK	87	OK	Limits =	33-120		
Decachlorobiphenyl	14.17	+0.01	12.48	+0.01	10485444	56314045	92.60		79.41				93	OK
						%Recovery =	93	OK	79	OK	Limits =	37-139		

Target Compounds

Final Conc. Units: ug/Kg Wet Weight

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Aroclor 1016			0	0	0.0000	0.0000	2.80U	2.80U	2.80U
Aroclor 1016 {1}			0	0d	0.0000	0.0000	2.8U	2.8U	
Aroclor 1016 {2}			0	0d	0.0000	0.0000	2.8U	2.8U	
Aroclor 1016 {3}			0	0d	0.0000	0.0000	2.8U	2.8U	
Aroclor 1016 {4}			0	0d	0.0000	0.0000	2.8U	2.8U	
Aroclor 1016 {5}			0	0d	0.0000	0.0000	2.8U	2.8U	
Aroclor 1221			0	0	0.0000	0.0000	2.8U	2.8U	2.8U
Aroclor 1221 {1}			0	0	0.0000	0.0000	2.8U	2.8U	
Aroclor 1221 {2}			0	0	0.0000	0.0000	2.8U	2.8U	
Aroclor 1221 {3}			0	0	0.0000	0.0000	2.8U	2.8U	
Aroclor 1232			0	0	0.0000	0.0000	2.8U	2.8U	2.8U
Aroclor 1232 {1}			0	0d	0.0000	0.0000	2.8U	2.8U	
Aroclor 1232 {2}			0	0d	0.0000	0.0000	2.8U	2.8U	
Aroclor 1232 {3}			0	0d	0.0000	0.0000	2.8U	2.8U	
Aroclor 1232 {4}			0	0d	0.0000	0.0000	2.8U	2.8U	
Aroclor 1232 {5}			0	0d	0.0000	0.0000	2.8U	2.8U	
Aroclor 1242			0	0	0.0000	0.0000	2.8U	2.8U	2.8U

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File #1:	J:\GC28\DATA\042714.B\0427F006.D			**Instrument:**	GC28.i
Data File #2:	\\alklsws002\instdata\GC28\Data\042714_r.b\0427F006.D			**Vial:**	2
Acqu Date:	04/28/2014 03:01	**Quant Date:**	04/30/2014 09:19	**Dilution:**	1.0
Run Type:	MB			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1403897-4				
Signal #1:	DB-XLB	**Signal #2:**	DB-35MS		

Target Compounds

Final Conc. Units: ug/Kg Wet Weight

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Aroclor 1242 {1}			0	0d	0.0000	0.0000	2.8U	2.8U	
Aroclor 1242 {2}			0	0d	0.0000	0.0000	2.8U	2.8U	
Aroclor 1242 {3}			0	0d	0.0000	0.0000	2.8U	2.8U	
Aroclor 1242 {4}			0	0d	0.0000	0.0000	2.8U	2.8U	
Aroclor 1242 {5}			0	0d	0.0000	0.0000	2.8U	2.8U	
Aroclor 1248			0	0	0.0000	0.0000	2.8U	2.8U	2.8U
Aroclor 1248 {1}			0	0	0.0000	0.0000	2.8U	2.8U	
Aroclor 1248 {2}			0	0	0.0000	0.0000	2.8U	2.8U	
Aroclor 1248 {3}			0	0	0.0000	0.0000	2.8U	2.8U	
Aroclor 1248 {4}			0	0	0.0000	0.0000	2.8U	2.8U	
Aroclor 1248 {5}			0	0	0.0000	0.0000	2.8U	2.8U	
Aroclor 1254			0	0	0.0000	0.0000	2.8U	2.8U	2.8U
Aroclor 1254 {1}			0	0	0.0000	0.0000	2.8U	2.8U	
Aroclor 1254 {2}			0	0	0.0000	0.0000	2.8U	2.8U	
Aroclor 1254 {3}			0	0	0.0000	0.0000	2.8U	2.8U	
Aroclor 1254 {4}			0	0	0.0000	0.0000	2.8U	2.8U	
Aroclor 1254 {5}			0	0	0.0000	0.0000	2.8U	2.8U	
Aroclors, Total			0	0	0.0000	0.0000	2.8U	2.8U	2.8U
Aroclor 1260			0	0	0.0000	0.0000	2.80U	2.80U	2.80U
Aroclor 1260 {1}			0	0	0.0000	0.0000	2.8U	2.8U	
Aroclor 1260 {2}			0	0	0.0000	0.0000	2.8U	2.8U	
Aroclor 1260 {3}			0	0	0.0000	0.0000	2.8U	2.8U	
Aroclor 1260 {4}			0	0	0.0000	0.0000	2.8U	2.8U	
Aroclor 1260 {5}			0	0	0.0000	0.0000	2.8U	2.8U	
Aroclor 1262			0	0	0.0000	0.0000	2.8U	2.8U	2.8U
Aroclor 1262 {1}			0	0	0.0000	0.0000	2.8U	2.8U	
Aroclor 1262 {2}			0	0	0.0000	0.0000	2.8U	2.8U	
Aroclor 1262 {3}			0	0	0.0000	0.0000	2.8U	2.8U	
Aroclor 1262 {4}			0	0	0.0000	0.0000	2.8U	2.8U	
Aroclor 1262 {5}			0	0	0.0000	0.0000	2.8U	2.8U	
Aroclor 1268			0	0	0.0000	0.0000	2.80U	2.80U	2.80U
Aroclor 1268 {1}			0	0	0.0000	0.0000	2.8U	2.8U	
Aroclor 1268 {2}			0	0	0.0000	0.0000	2.8U	2.8U	
Aroclor 1268 {3}			0	0	0.0000	0.0000	2.8U	2.8U	
Aroclor 1268 {4}			0	0	0.0000	0.0000	2.8U	2.8U	

The -/+ after Retention Time symbolize the direction of the RT shift

Prep Amount:	20.396 g	**Dilution:**	1.0
Prep Final Vol:	4 mL	**Unit Factor:**	1
Solids:	%		

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File #1:	J:\GC28\DATA\042714.B\0427F006.D			**Instrument:**	GC28.i
Data File #2:	\\alklsws002\instdata\GC28\Data\042714_r.b\0427F006.D			**Vial:**	2
Acqu Date:	04/28/2014 03:01	**Quant Date:**	04/30/2014 09:19	**Dilution:**	1.0
Run Type:	MB			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1403897-4				
Signal #1:	DB-XLB	**Signal #2:**	DB-35MS		

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / (Prep Amount x Solids)) x Unit Factor

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File: \\alklsws002\instdata\GC28\Data\042714.b\0427F006.D
Report Date: 30-Apr-2014 09:19

CAS

Sample #1 : \\alklsws002\instdata\GC28\Data\042714.b\0427F006.D
Sample #2 : \\alklsws002\instdata\GC28\Data\042714_r.b\0427F006.D
Inj Date : 28-APR-2014 03:01
Sample Info: KQ1403721-09MB
Misc Info :
Cal Date : 28-APR-2014 22:13
Operator : JMSmith
Inst ID : GC28.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC28\Data\042714.b\042414_f.m
Method #2 : \\alklsws002\instdata\GC28\Data\042714_r.b\042414_r.m
Sub List #1 : ALL.SUB
Sub List #2 : ALL.SUB
Col #1 Phase : DB-XLB
Col #2 Phase : DB-35MS

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Tetrachloro-m-xylene	4.535	3.942	9667928	52624649	83.9	87.1		100.00
Decachlorobiphenyl	14.172	12.478	10485444	56314045	92.6	79.4		100.00

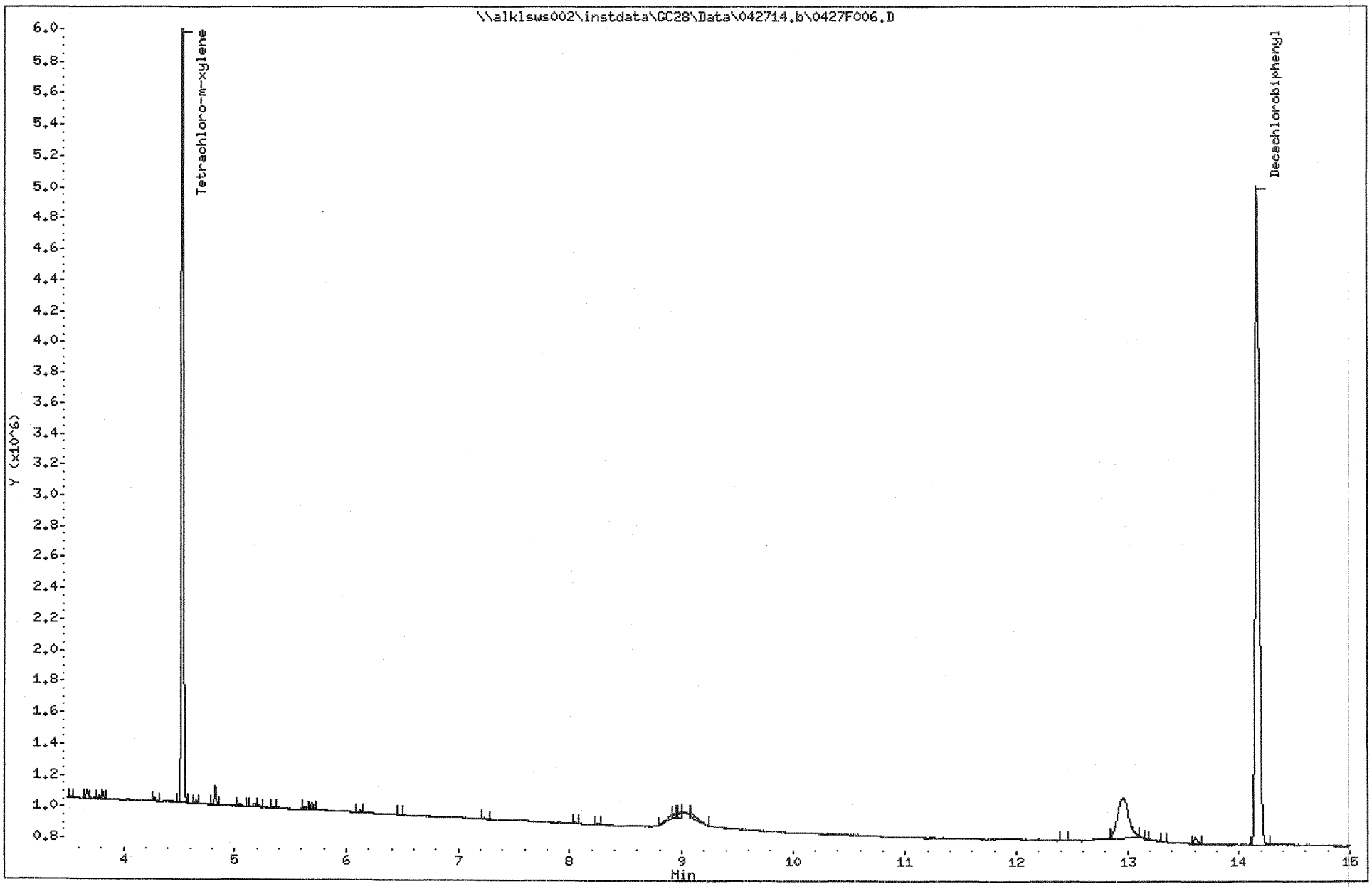
Data File: \\alklsws002\instdata\GC28\Data\042714.b\0427F006.D
Date : 28-APR-2014 03:01
Client ID:
Sample Info: KQ1403721-09MB

Instrument: GC28.i

Operator: JMSmith

Column phase: DB-XLB

Column diameter: 0.32



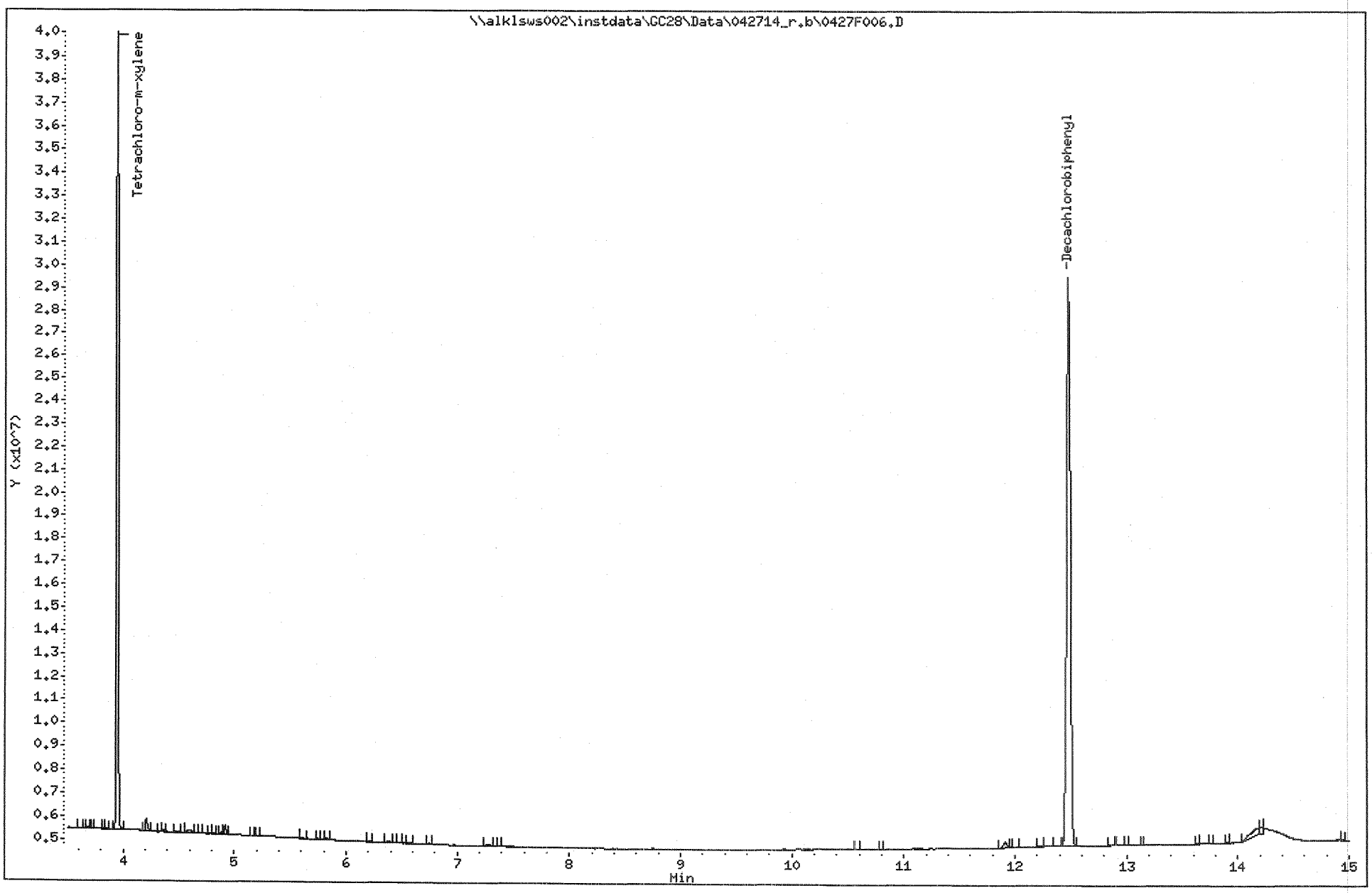
Data File: \\alklsws002\instdata\GC28\Data\042714_r.b\0427F006.D
Date : 28-APR-2014 03:01
Client ID:
Sample Info: KQ1403721-09MB

Instrument: GC28.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32



Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC28\DATA\042714.B\0427F008.D
Lab ID: KWG1403897-1 -- K1403129-001MS
RunType: MS
Matrix: FINFISH

Date Acquired: 04/28/2014 03:47
Date Quantitated: 04/30/2014 09:19
Batch ID: KWG1403893
Analysis Method: 8082A
MethodJoinID: MJ1038

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Primary Review: SS 4/30/14

Secondary Review: [illegible] 4/30/14

Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC28\DATA\042714_R.B\0427F008.D
Lab ID: KWG1403897-1 -- K1403129-001MS
RunType: MS
Matrix: FINFISH

Date Acquired: 04/28/2014 03:47
Date Quantitated: 04/30/2014 09:19
Batch ID: KWG1403893
Analysis Method: 8082A
MethodJoinID: MJ1038

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Primary Review: SS 4/30/14

Secondary Review: [illegible]

Quantitation Report

Data File #1:	J:\GC28\DATA\042714.B\0427F008.D			**Instrument:**	GC28.i
Data File #2:	\\alklsws002\instdata\GC28\Data\042714_r.b\0427F008.D			**Vial:**	4
Acqu Date:	04/28/2014 03:47	**Quant Date:**	04/30/2014 09:19	**Dilution:**	20.0
Run Type:	MS			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1403897-1 -- K1403129-001MS				
Signal #1:	DB-XLB	**Signal #2:**	DB-35MS		

Bottle ID:		**Tier:**		**Matrix:**	FINFISH
Prod Code:	8082A PCB	**Collect Date:**		**Receive Date:**	04/30/2014

Analysis Lot:	KWG1403893	**Prep Lot:**	KWG1403897	**Report Group:**	
Analysis Method:	8082A	**Prep Method:**	EPA 3541		
Prep Ref:	1338712	**Prep Date:**	04/11/2014		

Quant Method:	\\ALKLSWS002\INSTDATA\GC28\DATA\042714.B\042414_F.M	**Calibration ID:**	CAL13284
Title:			
MB Ref:	J:\GC28\DATA\042714.B\0427F006.D	**Method ID:**	MJ1038
		Quant based on Method	

Surrogate Compounds

Parameter Name	RT #1		RT #2		Resp #1	Respe #2	ng/mL #1	ng/mL #2			Rpt	
Tetrachloro-m-xylene	4.53	+0.01	3.94	+0.01	476261	2083977	4.13	3.45			83	OK
						%Recovery =	83 OK	69 OK	Limits =	33-120		
Decachlorobiphenyl	14.17	+0.01	12.48	+0.01	548176	3705212	4.84	5.23			105	OK
						%Recovery =	97 OK	105 OK	Limits =	37-139		

Target Compounds

Final Conc. Units: ug/Kg Dry Weight

Parameter Name	RT #1		RT #2		Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Aroclor 1016					0	0	58.73	49.11	944D	790JD	**790**JD
Aroclor 1016 {1}	4.83	+0.01	4.83	+0.01	128711	478514	53.52	49.21	861D	791JD	
Aroclor 1016 {2}	5.83	+0.01	5.02	-0.01	299111	1152150	51.68	36.03	831D	579JD	
Aroclor 1016 {3}	5.88	+0.00	5.13	+0.01	208684	1043187	54.85	48.77	882D	784JD	
Aroclor 1016 {4}	6.23	+0.00	5.31	+0.01	241778	910574	83.64	54.63	1340D	878D	
Aroclor 1016 {5}	6.44	+0.01	5.62	+0.01	142474	973010	49.96	56.90	803JD	915D	
Aroclor 1221					0	0	0.0000	0.0000	230U	230U	230U
Aroclor 1221 {1}					0d	0d	0.0000	0.0000	230U	230U	
Aroclor 1221 {2}					0d	0d	0.0000	0.0000	230U	230U	
Aroclor 1221 {3}					0d	0d	0.0000	0.0000	230U	230U	
Aroclor 1232					0	0	0.0000	0.0000	230U	230U	230U
Aroclor 1232 {1}					0d	0d	0.0000	0.0000	230U	230U	
Aroclor 1232 {2}					0d	0d	0.0000	0.0000	230U	230U	
Aroclor 1232 {3}					0d	0d	0.0000	0.0000	230U	230U	
Aroclor 1232 {4}					0d	0d	0.0000	0.0000	230U	230U	
Aroclor 1232 {5}					0d	0d	0.0000	0.0000	230U	230U	
Aroclor 1242					0	0	0.0000	0.0000	230U	230U	230U

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File #1:	J:\GC28\DATA\042714.B\0427F008.D			**Instrument:**	GC28.i
Data File #2:	\\alklsws002\instdata\GC28\Data\042714_r.b\0427F008.D			**Vial:**	4
Acqu Date:	04/28/2014 03:47	**Quant Date:**	04/30/2014 09:19	**Dilution:**	20.0
Run Type:	MS			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1403897-1 -- K1403129-001MS				
Signal #1:	DB-XLB	**Signal #2:**	DB-35MS		

Target Compounds

Final Conc. Units: ug/Kg Dry Weight

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Aroclor 1242 {1}			0d	0d	0.0000	0.0000	230U	230U	
Aroclor 1242 {2}			0d	0d	0.0000	0.0000	230U	230U	
Aroclor 1242 {3}			0d	0d	0.0000	0.0000	230U	230U	
Aroclor 1242 {4}			0d	0d	0.0000	0.0000	230U	230U	
Aroclor 1242 {5}			0d	0d	0.0000	0.0000	230U	230U	
Aroclor 1248			0	0	0.0000	0.0000	230U	230U	230U
Aroclor 1248 {1}			0d	0d	0.0000	0.0000	230U	230U	
Aroclor 1248 {2}			0d	0d	0.0000	0.0000	230U	230U	
Aroclor 1248 {3}			0d	0d	0.0000	0.0000	230U	230U	
Aroclor 1248 {4}			0d	0d	0.0000	0.0000	230U	230U	
Aroclor 1248 {5}			0d	0d	0.0000	0.0000	230U	230U	
Aroclor 1254			0	0	0.0000	0.0000	230U	230U	230U
Aroclor 1254 {1}			0d	0d	0.0000	0.0000	230U	230U	
Aroclor 1254 {2}			0d	0d	0.0000	0.0000	230U	230U	
Aroclor 1254 {3}			0d	0d	0.0000	0.0000	230U	230U	
Aroclor 1254 {4}			0d	0d	0.0000	0.0000	230U	230U	
Aroclor 1254 {5}			0d	0d	0.0000	0.0000	230U	230U	
Aroclors, Total			15106210	87939556	2,156	2,033	34700JD	32700JD	**34700**JD
Aroclor 1260			0	0	2,097	1,984	33700D	31900D	**31900**D
Aroclor 1260 {1}	8.43 +0.01	7.82 +0.01	5897851	18101208	916.45	1,034	14700D	16600D	
Aroclor 1260 {2}	9.73 +0.01	8.26 +0.01	18416974	103357497	3,950	3,557	63500D	57200D	
Aroclor 1260 {3}	10.19 +0.01	8.83 +0.01	4227971	18678142	827.40	636.12	13300D	10200D	
Aroclor 1260 {4}	10.88 +0.01	9.29 +0.01	28805624	174036720	2,501	2,442	40200D	39300D	
Aroclor 1260 {5}	11.53 +0.01	10.09 +0.01	17161874	120966781	2,292	2,249	36900D	36200D	
Aroclor 1262			0	0	0.0000	0.0000	230U	230U	230U
Aroclor 1262 {1}			0d	0d	0.0000	0.0000	230U	230U	
Aroclor 1262 {2}			0d	0d	0.0000	0.0000	230U	230U	
Aroclor 1262 {3}			0d	0d	0.0000	0.0000	230U	230U	
Aroclor 1262 {4}			0d	0d	0.0000	0.0000	230U	230U	
Aroclor 1262 {5}			0d	0d	0.0000	0.0000	230U	230U	
Aroclor 1268			0	0	0.0000	0.0000	230U	230U	230U
Aroclor 1268 {1}			0d	0d	0.0000	0.0000	230U	230U	
Aroclor 1268 {2}			0d	0d	0.0000	0.0000	230U	230U	
Aroclor 1268 {3}			0d	0d	0.0000	0.0000	230U	230U	
Aroclor 1268 {4}			0d	0d	0.0000	0.0000	230U	230U	

The -/+ after Retention Time symbolize the direction of the RT shift

Prep Amount:	20.061 g	**Dilution:**	20.0
Prep Final Vol:	4 mL	**Unit Factor:**	1
Solids:	24.8 %		

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File #1:	J:\GC28\DATA\042714.B\0427F008.D			**Instrument:**	GC28.i
Data File #2:	\\alklsws002\instdata\GC28\Data\042714_r.b\0427F008.D			**Vial:**	4
Acqu Date:	04/28/2014 03:47	**Quant Date:**	04/30/2014 09:19	**Dilution:**	20.0
Run Type:	MS			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1403897-1 -- K1403129-001MS				
Signal #1:	DB-XLB	**Signal #2:**	DB-35MS		

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / (Prep Amount x Solids)) x Unit Factor

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File: \\alklsws002\instdata\GC28\Data\042714.b\0427F008.D
Report Date: 30-Apr-2014 09:19

CAS

Sample #1 : \\alklsws002\instdata\GC28\Data\042714.b\0427F008.D
Sample #2 : \\alklsws002\instdata\GC28\Data\042714_r.b\0427F008.D
Inj Date : 28-APR-2014 03:47
Sample Info: K1403129-001MS @ 20X
Misc Info :
Cal Date : 28-APR-2014 22:13
Operator : JMSmith
Inst ID : GC28.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC28\Data\042714.b\042414_f.m
Method #2 : \\alklsws002\instdata\GC28\Data\042714_r.b\042414_r.m
Sub List #1 : ALL.SUB
Sub List #2 : ALL.SUB
Col #1 Phase : DB-XLB
Col #2 Phase : DB-35MS

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Tetrachloro-m-xylene	4.533	3.943	476261	2083977	4.13	3.45		100.00
Aroclor 1016	4.833	4.833	128711	478514	53.5	49.2	80.00- 120.00	100.00
	5.833	5.017	299111	1152150	51.7	36.0	189.76- 284.64	232.39
	5.877	5.130	208684	1043187	54.9	48.8	126.48- 189.73	162.13
	6.233	5.313	241778	910574	83.6	54.6	96.67- 145.00	187.85
	6.440	5.617	142474	973010	50.0	56.9	95.09- 142.63	110.69
		Average of Peak Amounts =			58.7	49.1		
Aroclor 1260	8.430	7.823	5897851	18101208	916	1030	80.00- 120.00	100.00
	9.730	8.263	18416974	103357497	3950	3560	59.87- 89.80	312.27
	10.193	8.827	4227971	18678142	827	636	62.64- 93.96	71.69
	10.883	9.290	28805624	174036720	2500	2440	140.82- 211.23	488.41
	11.530	10.090	17161874	120966781	2290	2250	94.76- 142.14	290.99
		Average of Peak Amounts =			2100	1980		
Decachlorobiphenyl	14.170	12.480	548176	3705212	4.84	5.22		100.00
Aroclors, Total	0.000	0.000	15106210	87939556	2160	2030		0.00

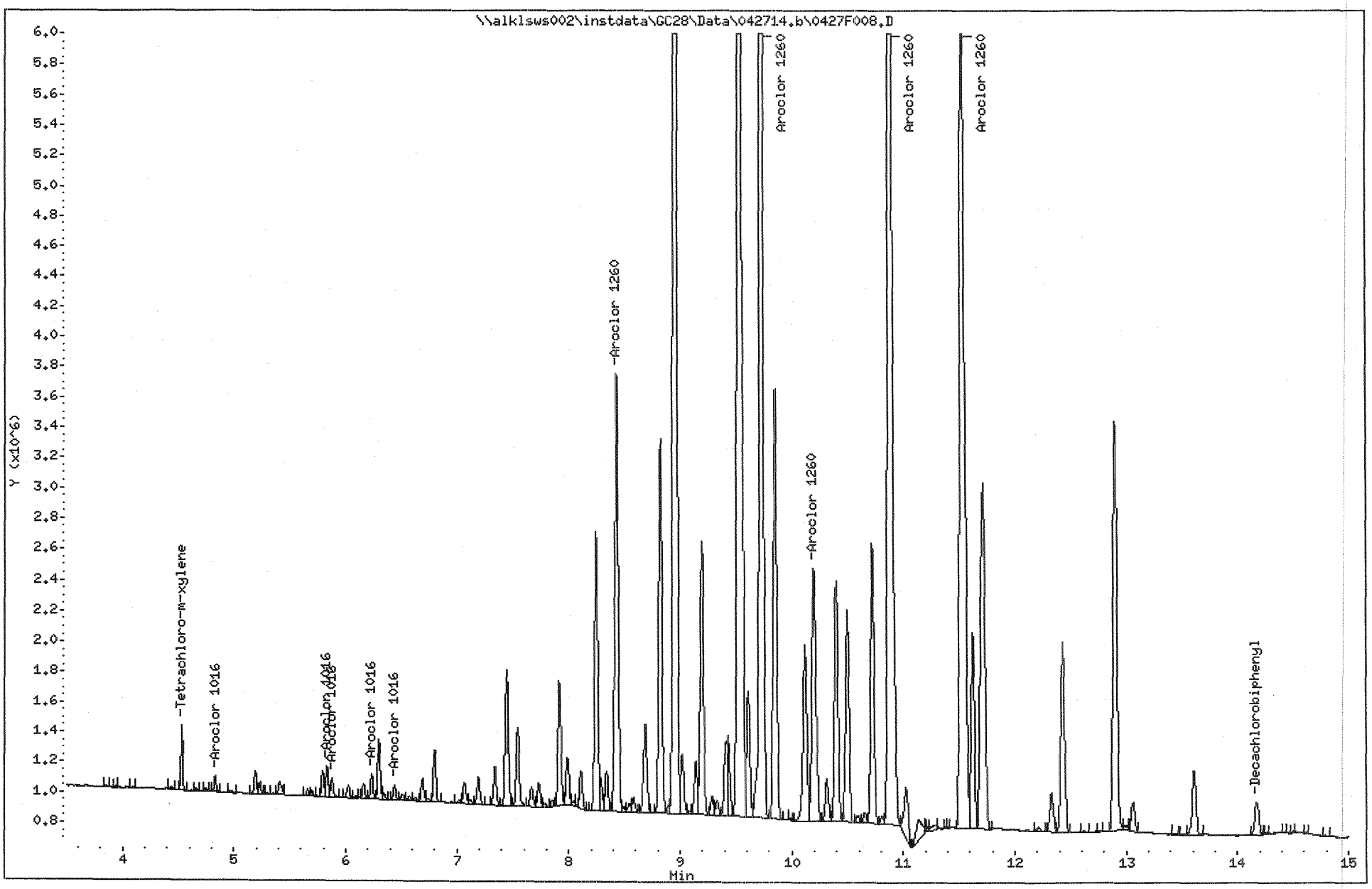
Data File: \\alklsws002\instdata\GC28\Data\042714.b\0427F008.D
Date : 28-APR-2014 03:47
Client ID:
Sample Info: K1403129-001MS @ 20X

Instrument: GC28.i

Operator: JMSmith

Column phase: DB-XLB

Column diameter: 0.32



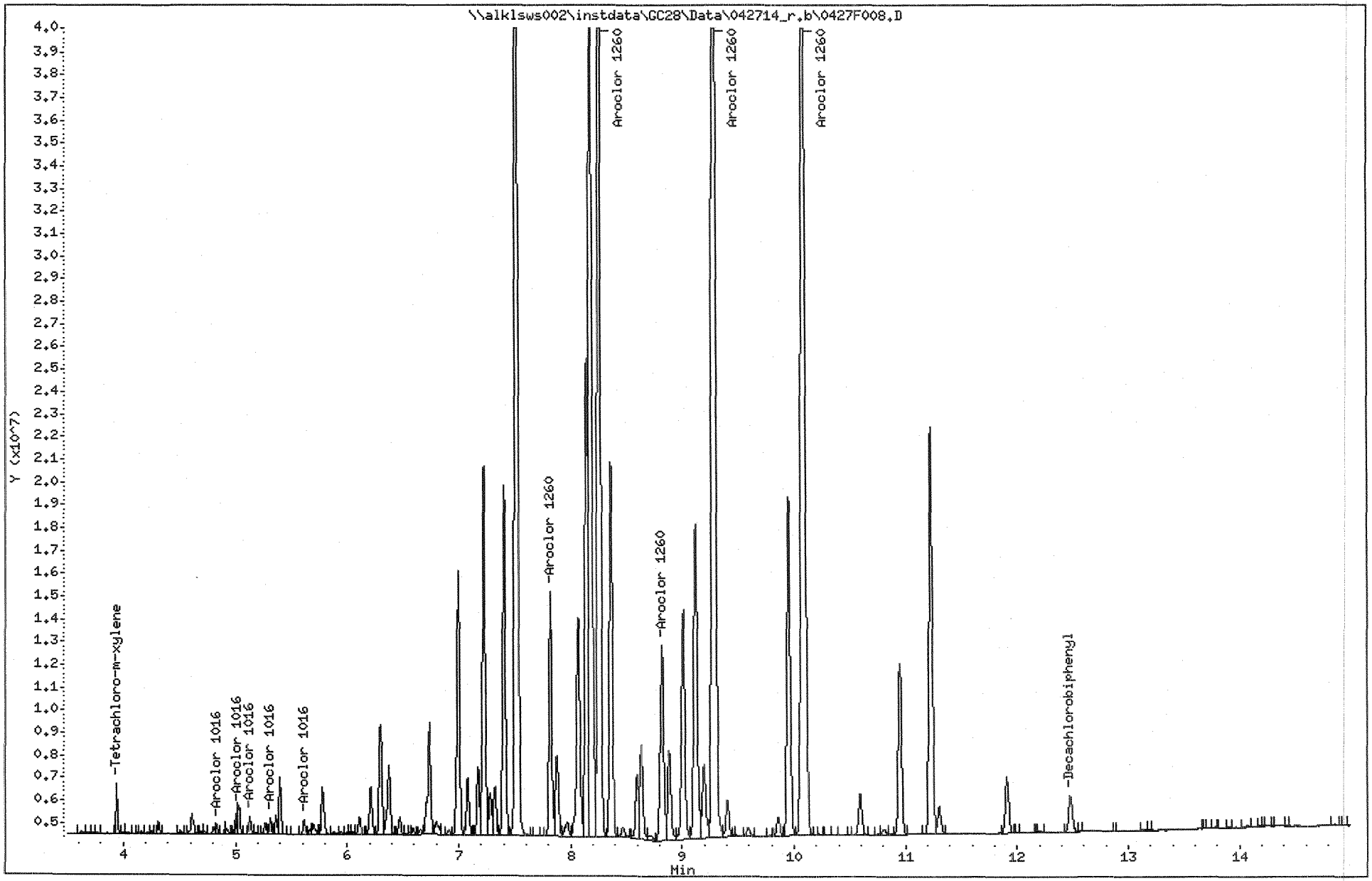
Data File: \\alklsws002\instdata\GC28\Data\042714_r.b\0427F008.D
Date : 28-APR-2014 03:47
Client ID:
Sample Info: K1403129-001MS @ 20X

Instrument: GC28.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32



Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC28\DATA\042714.B\0427F009.D
Lab ID: KWG1403897-2 -- K1403129-001DMS
RunType: DMS
Matrix: FINFISH

Date Acquired: 04/28/2014 04:10
Date Quantitated: 04/30/2014 09:19
Batch ID: KWG1403893
Analysis Method: 8082A
MethodJoinID: MJ1038

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Primary Review: SS 4/30/14

Secondary Review: [illegible] 4/30/14

Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC28\DATA\042714_R.B\0427F009.D
Lab ID: KWG1403897-2 -- K1403129-001DMS
RunType: DMS
Matrix: FINFISH

Date Acquired: 04/28/2014 04:10
Date Quantitated: 04/30/2014 09:19
Batch ID: KWG1403893
Analysis Method: 8082A
MethodJoinID: MJ1038

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Primary Review: SS 4/30/14

Secondary Review: [illegible]

Quantitation Report

Data File #1:	J:\GC28\DATA\042714.B\0427F009.D			**Instrument:**	GC28.i
Data File #2:	\\alklsws002\instdata\GC28\Data\042714_r.b\0427F009.D			**Vial:**	5
Acqu Date:	04/28/2014 04:10	**Quant Date:**	04/30/2014 09:19	**Dilution:**	20.0
Run Type:	DMS			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1403897-2 -- K1403129-001DMS				
Signal #1:	DB-XLB	**Signal #2:**	DB-35MS		

Bottle ID:		**Tier:**		**Matrix:**	FINFISH
Prod Code:	8082A PCB	**Collect Date:**		**Receive Date:**	04/30/2014

Analysis Lot:	KWG1403893	**Prep Lot:**	KWG1403897	**Report Group:**	
Analysis Method:	8082A	**Prep Method:**	EPA 3541		
Prep Ref:	1338713	**Prep Date:**	04/11/2014		

Quant Method:	\\ALKLSWS002\INSTDATA\GC28\DATA\042714.B\042414_F.M	**Calibration ID:**	CAL13284
Title:			
MB Ref:	J:\GC28\DATA\042714.B\0427F006.D	**Method ID:**	MJ1038
		Quant based on Method	

Surrogate Compounds

Parameter Name	RT #1		RT #2		Resp #1	Respe #2	ng/mL #1		ng/mL #2				Rpt	
Tetrachloro-m-xylene	4.53	+0.01	3.94	+0.01	452371	1983531	3.93		3.28				79	OK
						%Recovery =	79	OK	66	OK	Limits =	33-120		
Decachlorobiphenyl	14.17	+0.01	12.48	+0.01	544427	3794429	4.81		5.35				107	OK
						%Recovery =	96	OK	107	OK	Limits =	37-139		

Target Compounds

Final Conc. Units: ug/Kg Dry Weight

Parameter Name	RT #1		RT #2		Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Aroclor 1016					0	0	57.05	48.83	917D	785JD	**785**JD
Aroclor 1016 {1}	4.83	+0.01	4.83	+0.01	123875	466239	51.51	47.94	828D	771JD	
Aroclor 1016 {2}	5.83	+0.01	5.02	-0.01	290861	1150275	50.25	35.97	808JD	578JD	
Aroclor 1016 {3}	5.88	+0.00	5.13	+0.00	194146	1050830	51.03	49.13	820D	790JD	
Aroclor 1016 {4}	6.23	+0.01	5.31	+0.01	233701	898855	80.85	53.93	1300D	867D	
Aroclor 1016 {5}	6.44	+0.01	5.61	+0.01	147205	977464	51.62	57.16	830D	919D	
Aroclor 1221					0	0	0.0000	0.0000	230U	230U	230U
Aroclor 1221 {1}					0d	0d	0.0000	0.0000	230U	230U	
Aroclor 1221 {2}					0d	0d	0.0000	0.0000	230U	230U	
Aroclor 1221 {3}					0d	0d	0.0000	0.0000	230U	230U	
Aroclor 1232					0	0	0.0000	0.0000	230U	230U	230U
Aroclor 1232 {1}					0d	0d	0.0000	0.0000	230U	230U	
Aroclor 1232 {2}					0d	0d	0.0000	0.0000	230U	230U	
Aroclor 1232 {3}					0d	0d	0.0000	0.0000	230U	230U	
Aroclor 1232 {4}					0d	0d	0.0000	0.0000	230U	230U	
Aroclor 1232 {5}					0d	0d	0.0000	0.0000	230U	230U	
Aroclor 1242					0	0	0.0000	0.0000	230U	230U	230U

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File #1:	J:\GC28\DATA\042714.B\0427F009.D			**Instrument:**	GC28.i
Data File #2:	\\alklsws002\instdata\GC28\Data\042714_r.b\0427F009.D			**Vial:**	5
Acqu Date:	04/28/2014 04:10	**Quant Date:**	04/30/2014 09:19	**Dilution:**	20.0
Run Type:	DMS			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1403897-2 -- K1403129-001DMS				
Signal #1:	DB-XLB	**Signal #2:**	DB-35MS		

Target Compounds

Final Conc. Units: ug/Kg Dry Weight

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Aroclor 1242 {1}			0d	0d	0.0000	0.0000	230U	230U	
Aroclor 1242 {2}			0d	0d	0.0000	0.0000	230U	230U	
Aroclor 1242 {3}			0d	0d	0.0000	0.0000	230U	230U	
Aroclor 1242 {4}			0d	0d	0.0000	0.0000	230U	230U	
Aroclor 1242 {5}			0d	0d	0.0000	0.0000	230U	230U	
Aroclor 1248			0	0	0.0000	0.0000	230U	230U	230U
Aroclor 1248 {1}			0d	0d	0.0000	0.0000	230U	230U	
Aroclor 1248 {2}			0d	0d	0.0000	0.0000	230U	230U	
Aroclor 1248 {3}			0d	0d	0.0000	0.0000	230U	230U	
Aroclor 1248 {4}			0d	0d	0.0000	0.0000	230U	230U	
Aroclor 1248 {5}			0d	0d	0.0000	0.0000	230U	230U	
Aroclor 1254			0	0	0.0000	0.0000	230U	230U	230U
Aroclor 1254 {1}			0d	0d	0.0000	0.0000	230U	230U	
Aroclor 1254 {2}			0d	0d	0.0000	0.0000	230U	230U	
Aroclor 1254 {3}			0d	0d	0.0000	0.0000	230U	230U	
Aroclor 1254 {4}			0d	0d	0.0000	0.0000	230U	230U	
Aroclor 1254 {5}			0d	0d	0.0000	0.0000	230U	230U	
Aroclors, Total			15487089	90270692	2,208	2,086	35500JD	33500JD	**35500**JD
Aroclor 1260			0	0	2,151	2,038	34600D	32800D	**32800**D
Aroclor 1260 {1}	8.43 +0.01	7.82 +0.01	6005894	18536858	933.24	1,059	15000D	17000D	
Aroclor 1260 {2}	9.73 +0.01	8.26 +0.01	18875514	106065024	4,048	3,650	65100D	58700D	
Aroclor 1260 {3}	10.19 +0.01	8.83 +0.01	4334920	19574009	848.33	666.63	13600D	10700D	
Aroclor 1260 {4}	10.88 +0.01	9.29 +0.01	29572387	178511289	2,567	2,505	41300D	40300D	
Aroclor 1260 {5}	11.53 +0.01	10.09 +0.01	17656943	124122620	2,358	2,307	37900D	37100D	
Aroclor 1262			0	0	0.0000	0.0000	230U	230U	230U
Aroclor 1262 {1}			0d	0d	0.0000	0.0000	230U	230U	
Aroclor 1262 {2}			0d	0d	0.0000	0.0000	230U	230U	
Aroclor 1262 {3}			0d	0d	0.0000	0.0000	230U	230U	
Aroclor 1262 {4}			0d	0d	0.0000	0.0000	230U	230U	
Aroclor 1262 {5}			0d	0d	0.0000	0.0000	230U	230U	
Aroclor 1268			0	0	0.0000	0.0000	230U	230U	230U
Aroclor 1268 {1}			0d	0d	0.0000	0.0000	230U	230U	
Aroclor 1268 {2}			0d	0d	0.0000	0.0000	230U	230U	
Aroclor 1268 {3}			0d	0d	0.0000	0.0000	230U	230U	
Aroclor 1268 {4}			0d	0d	0.0000	0.0000	230U	230U	

The -/+ after Retention Time symbolize the direction of the RT shift

Prep Amount:	20.068 g	**Dilution:**	20.0
Prep Final Vol:	4 mL	**Unit Factor:**	1
Solids:	24.8 %		

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File #1:	J:\GC28\DATA\042714.B\0427F009.D			**Instrument:**	GC28.i
Data File #2:	\\alklsws002\instdata\GC28\Data\042714_r.b\0427F009.D			**Vial:**	5
Acqu Date:	04/28/2014 04:10	**Quant Date:**	04/30/2014 09:19	**Dilution:**	20.0
Run Type:	DMS			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1403897-2 -- K1403129-001DMS				
Signal #1:	DB-XLB	**Signal #2:**	DB-35MS		

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / (Prep Amount x Solids)) x Unit Factor

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File: \\alklsws002\instdata\GC28\Data\042714.b\0427F009.D
Report Date: 30-Apr-2014 09:19

CAS

Sample #1 : \\alklsws002\instdata\GC28\Data\042714.b\0427F009.D
Sample #2 : \\alklsws002\instdata\GC28\Data\042714_r.b\0427F009.D
Inj Date : 28-APR-2014 04:10
Sample Info: K1403129-001DMS @ 20X
Misc Info :
Cal Date : 28-APR-2014 22:13
Operator : JMSmith
Inst ID : GC28.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC28\Data\042714.b\042414_f.m
Method #2 : \\alklsws002\instdata\GC28\Data\042714_r.b\042414_r.m
Sub List #1 : ALL.SUB
Sub List #2 : ALL.SUB
Col #1 Phase : DB-XLB
Col #2 Phase : DB-35MS

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Tetrachloro-m-xylene	4.534	3.944	452371	1983531	3.92	3.28		100.00
Aroclor 1016	4.834	4.834	123875	466239	51.5	47.9	80.00- 120.00	100.00
	5.834	5.017	290861	1150275	50.3	36.0	189.76- 284.64	234.80
	5.877	5.127	194146	1050830	51.0	49.1	126.48- 189.73	156.73
	6.234	5.314	233701	898855	80.8	53.9	96.67- 145.00	188.66
	6.441	5.614	147205	977464	51.6	57.2	95.09- 142.63	118.83
			Average of Peak Amounts =		57.0	48.8		
Aroclor 1260	8.431	7.824	6005894	18536858	933	1060	80.00- 120.00	100.00
	9.731	8.264	18875514	106065024	4050	3650	59.87- 89.80	314.28
	10.194	8.827	4334920	19574009	848	667	62.64- 93.96	72.18
	10.884	9.294	29572387	178511289	2570	2500	140.82- 211.23	492.39
	11.527	10.091	17656943	124122620	2360	2310	94.76- 142.14	293.99
			Average of Peak Amounts =		2150	2040		
Decachlorobiphenyl	14.171	12.484	544427	3794429	4.81	5.35		100.00
Aroclors, Total	0.000	0.000	15487089	90270692	2210	2090		0.00

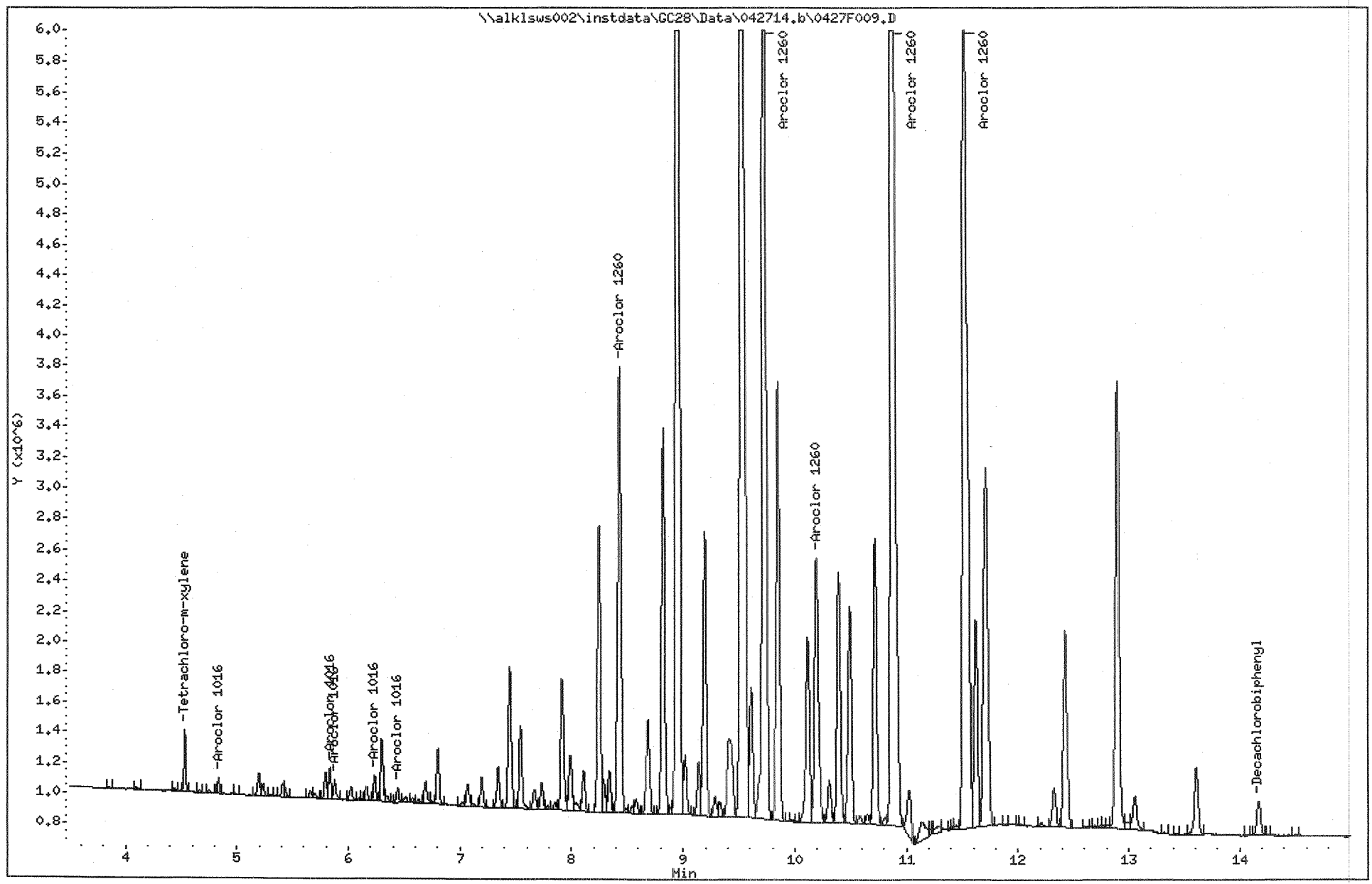
Data File: \\alklsws002\instdata\GC28\Data\042714.b\0427F009.D
Date : 28-APR-2014 04:10
Client ID:
Sample Info: K1403129-001DMS @ 20X

Instrument: GC28.i

Operator: JMSmith

Column phase: DB-XLB

Column diameter: 0.32



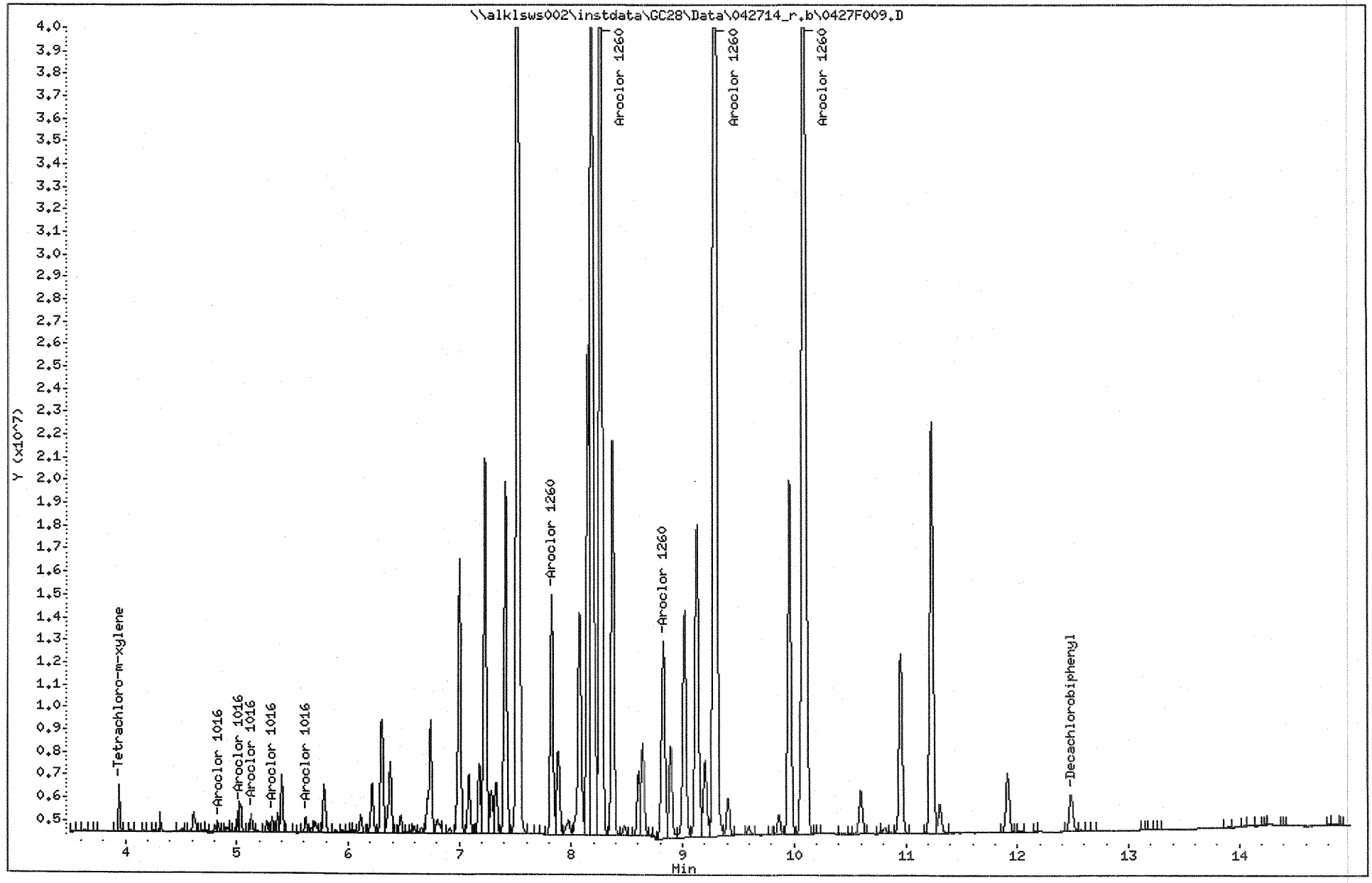
Data File: \\alklsws002\instdata\GC28\Data\042714_r.b\0427F009.D
Date : 28-APR-2014 04:10
Client ID:
Sample Info: K1403129-001DMS @ 20X

Instrument: GC28.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32



Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC28\DATA\042714.B\0427F005.D
Lab ID: KWG1403897-3
RunType: LCS
Matrix: FINFISH

Date Acquired: 04/28/2014 02:38
Date Quantitated: 04/30/2014 09:19
Batch ID: KWG1403893
Analysis Method: 8082A
MethodJoinID: MJ1038

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Primary Review: SS 4/30/14

Secondary Review: [illegible]

Exception Report

Data File:	\\ALKLSWS002\INSTDATA\GC28\DATA\042714_R.B\0427F005.D	**Date Acquired:**	04/28/2014 02:38
Lab ID:	KWG1403897-3	**Date Quantitated:**	04/30/2014 09:19
RunType:	LCS	**Batch ID:**	KWG1403893
Matrix:	FINFISH	**Analysis Method:**	8082A
		MethodJoinID:	MJ1038

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Primary Review: SS 4/30/14

Secondary Review: [illegible]

Quantitation Report

Data File #1:	J:\GC28\DATA\042714.B\0427F005.D			**Instrument:**	GC28.i
Data File #2:	\\alklsws002\instdata\GC28\Data\042714_r.b\0427F005.D			**Vial:**	1
Acqu Date:	04/28/2014 02:38	**Quant Date:**	04/30/2014 09:19	**Dilution:**	1.0
Run Type:	LCS			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1403897-3				
Signal #1:	DB-XLB	**Signal #2:**	DB-35MS		

Bottle ID:		**Tier:**		**Matrix:**	FINFISH
Prod Code:	8082A PCB	**Collect Date:**		**Receive Date:**	04/30/2014

Analysis Lot:	KWG1403893	**Prep Lot:**	KWG1403897	**Report Group:**	
Analysis Method:	8082A	**Prep Method:**	EPA 3541		
Prep Ref:	1338714	**Prep Date:**	04/11/2014		

Quant Method:	\\ALKLSWS002\INSTDATA\GC28\DATA\042714.B\042414_F.M	**Calibration ID:**	CAL13284
Title:			
MB Ref:	J:\GC28\DATA\042714.B\0427F006.D	**Method ID:**	MJ1038
		Quant based on Method	

Surrogate Compounds

Parameter Name	RT #1		RT #2		Resp #1	Respe #2	ng/mL #1		ng/mL #2				Rpt	
Tetrachloro-m-xylene	4.53	+0.00	3.94	+0.00	10770237	59156583	93.44		97.94				98	OK
						%Recovery =	93	OK	98	OK	Limits =	33-120		
Decachlorobiphenyl	14.17	+0.01	12.48	+0.01	10738647	59272720	94.83		83.58				95	OK
						%Recovery =	95	OK	84	OK	Limits =	37-139		

Target Compounds

Final Conc. Units: ug/Kg Wet Weight

Parameter Name	RT #1		RT #2		Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Aroclor 1016					0	0	1,059	978.27	208	192	192
Aroclor 1016 {1}	4.84	+0.01	4.83	+0.00	2642460m	9020096m	1,099	927.55	215	182	
Aroclor 1016 {2}	5.84	+0.01	5.03	+0.01	6066251m	32475156m	1,048	1,016	206	199	
Aroclor 1016 {3}	5.88	+0.00	5.13	+0.01	4048428m	22613102m	1,064	1,057	209	207	
Aroclor 1016 {4}	6.24	+0.01	5.31	+0.01	2984117m	15182379m	1,032	910.87	202	179	
Aroclor 1016 {5}	6.44	+0.01	5.62	+0.01	2997161m	16763145m	1,051	980.25	206	192	
Aroclor 1221					0	0	0.0000	0.0000	2.8U	2.8U	2.8U
Aroclor 1221 {1}					0d	0d	0.0000	0.0000	2.8U	2.8U	
Aroclor 1221 {2}					0d	0d	0.0000	0.0000	2.8U	2.8U	
Aroclor 1221 {3}					0d	0d	0.0000	0.0000	2.8U	2.8U	
Aroclor 1232					0	0	0.0000	0.0000	2.8U	2.8U	2.8U
Aroclor 1232 {1}					0d	0d	0.0000	0.0000	2.8U	2.8U	
Aroclor 1232 {2}					0d	0d	0.0000	0.0000	2.8U	2.8U	
Aroclor 1232 {3}					0d	0d	0.0000	0.0000	2.8U	2.8U	
Aroclor 1232 {4}					0d	0d	0.0000	0.0000	2.8U	2.8U	
Aroclor 1232 {5}					0d	0d	0.0000	0.0000	2.8U	2.8U	
Aroclor 1242					0	0	0.0000	0.0000	2.8U	2.8U	2.8U

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File #1:	J:\GC28\DATA\042714.B\0427F005.D			**Instrument:**	GC28.i
Data File #2:	\\alklsws002\instdata\GC28\Data\042714_r.b\0427F005.D			**Vial:**	1
Acqu Date:	04/28/2014 02:38	**Quant Date:**	04/30/2014 09:19	**Dilution:**	1.0
Run Type:	LCS			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1403897-3				
Signal #1:	DB-XLB	**Signal #2:**	DB-35MS		

Target Compounds

Final Conc. Units: ug/Kg Wet Weight

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Aroclor 1242 {1}			0d	0d	0.0000	0.0000	2.8U	2.8U	
Aroclor 1242 {2}			0d	0d	0.0000	0.0000	2.8U	2.8U	
Aroclor 1242 {3}			0d	0d	0.0000	0.0000	2.8U	2.8U	
Aroclor 1242 {4}			0d	0d	0.0000	0.0000	2.8U	2.8U	
Aroclor 1242 {5}			0d	0d	0.0000	0.0000	2.8U	2.8U	
Aroclor 1248			0	0	0.0000	0.0000	2.8U	2.8U	2.8U
Aroclor 1248 {1}			0d	0d	0.0000	0.0000	2.8U	2.8U	
Aroclor 1248 {2}			0d	0d	0.0000	0.0000	2.8U	2.8U	
Aroclor 1248 {3}			0d	0d	0.0000	0.0000	2.8U	2.8U	
Aroclor 1248 {4}			0d	0d	0.0000	0.0000	2.8U	2.8U	
Aroclor 1248 {5}			0d	0d	0.0000	0.0000	2.8U	2.8U	
Aroclor 1254			0	0	0.0000	0.0000	2.8U	2.8U	2.8U
Aroclor 1254 {1}			0d	0d	0.0000	0.0000	2.8U	2.8U	
Aroclor 1254 {2}			0d	0d	0.0000	0.0000	2.8U	2.8U	
Aroclor 1254 {3}			0d	0d	0.0000	0.0000	2.8U	2.8U	
Aroclor 1254 {4}			0d	0d	0.0000	0.0000	2.8U	2.8U	
Aroclor 1254 {5}			0d	0d	0.0000	0.0000	2.8U	2.8U	
Aroclors, Total			10811018	54093289	2,079	1,828	408J	359J	**408J**
Aroclor 1260			0	0	1,020	849.81	200	167	**167**
Aroclor 1260 {1}	8.43 +0.01	7.82 +0.01	6021881m	13896491m	935.73	793.60	184	156	
Aroclor 1260 {2}	9.73 +0.01	8.26 +0.01	5446459m	25960263m	1,168	893.43	229	175	
Aroclor 1260 {3}	10.19 +0.01	8.83 +0.01	5323809m	22632066m	1,042	770.78	204	151	
Aroclor 1260 {4}	10.88 +0.01	9.29 +0.01	11078133m	63485599m	961.65	890.82	189	175	
Aroclor 1260 {5}	11.53 +0.01	10.09 +0.01	7446392m	48438151m	994.40	900.40	195	177	
Aroclor 1262			0	0	0.0000	0.0000	2.8U	2.8U	2.8U
Aroclor 1262 {1}			0d	0d	0.0000	0.0000	2.8U	2.8U	
Aroclor 1262 {2}			0d	0d	0.0000	0.0000	2.8U	2.8U	
Aroclor 1262 {3}			0d	0d	0.0000	0.0000	2.8U	2.8U	
Aroclor 1262 {4}			0d	0d	0.0000	0.0000	2.8U	2.8U	
Aroclor 1262 {5}			0d	0d	0.0000	0.0000	2.8U	2.8U	
Aroclor 1268			0	0	0.0000	0.0000	2.80U	2.80U	2.80U
Aroclor 1268 {1}			0d	0d	0.0000	0.0000	2.8U	2.8U	
Aroclor 1268 {2}			0d	0d	0.0000	0.0000	2.8U	2.8U	
Aroclor 1268 {3}			0d	0d	0.0000	0.0000	2.8U	2.8U	
Aroclor 1268 {4}			0d	0d	0.0000	0.0000	2.8U	2.8U	

The -/+ after Retention Time symbolize the direction of the RT shift

Prep Amount:	20.396 g	**Dilution:**	1.0
Prep Final Vol:	4 mL	**Unit Factor:**	1
Solids:	%		

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File #1:	J:\GC28\DATA\042714.B\0427F005.D			**Instrument:**	GC28.i
Data File #2:	\\alklsws002\instdata\GC28\Data\042714_r.b\0427F005.D			**Vial:**	1
Acqu Date:	04/28/2014 02:38	**Quant Date:**	04/30/2014 09:19	**Dilution:**	1.0
Run Type:	LCS			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1403897-3				
Signal #1:	DB-XLB	**Signal #2:**	DB-35MS		

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / (Prep Amount x Solids)) x Unit Factor

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File: \\alklsws002\instdata\GC28\Data\042714.b\0427F005.D
Report Date: 30-Apr-2014 09:19

CAS

Sample #1 : \\alklsws002\instdata\GC28\Data\042714.b\0427F005.D
Sample #2 : \\alklsws002\instdata\GC28\Data\042714_r.b\0427F005.D
Inj Date : 28-APR-2014 02:38
Sample Info: KQ1403721-08LCS
Misc Info :
Cal Date : 28-APR-2014 22:13
Operator : JMSmith
Inst ID : GC28.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC28\Data\042714.b\042414_f.m
Method #2 : \\alklsws002\instdata\GC28\Data\042714_r.b\042414_r.m
Sub List #1 : ALL.SUB
Sub List #2 : ALL.SUB
Col #1 Phase : DB-XLB
Col #2 Phase : DB-35MS

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Tetrachloro-m-xylene	4.532	3.942	10770237	59156583	93.4	97.9		100.00
Aroclor 1016	4.835	4.832	2642460	9020096	1100	928	80.00- 120.00	100.00(M)
	5.835	5.032	6066251	32475156	1050	1020	189.76- 284.64	229.57(M)
	5.875	5.128	4048428	22613102	1060	1060	126.48- 189.73	153.21(M)
	6.235	5.312	2984117	15182379	1030	911	96.67- 145.00	112.93(M)
	6.442	5.615	2997161	16763145	1050	980	95.09- 142.63	113.42(M)
			Average of Peak Amounts =		1060	980		
Aroclor 1260	8.432	7.822	6021881	13896491	936	794	80.00- 120.00	100.00(M)
	9.732	8.262	5446459	25960263	1170	893	59.87- 89.80	90.44(M)
	10.192	8.829	5323809	22632066	1040	771	62.64- 93.96	88.41(M)
	10.882	9.292	11078133	63485599	962	891	140.82- 211.23	183.96(M)
	11.532	10.092	7446392	48438151	994	900	94.76- 142.14	123.66(M)
			Average of Peak Amounts =		1020	850		
Decachlorobiphenyl	14.172	12.479	10738647	59272720	94.8	83.6		100.00
Aroclors, Total	0.000	0.000	10811018	54093289	2080	1830		0.00

QC Flag Legend

M - Compound response manually integrated.

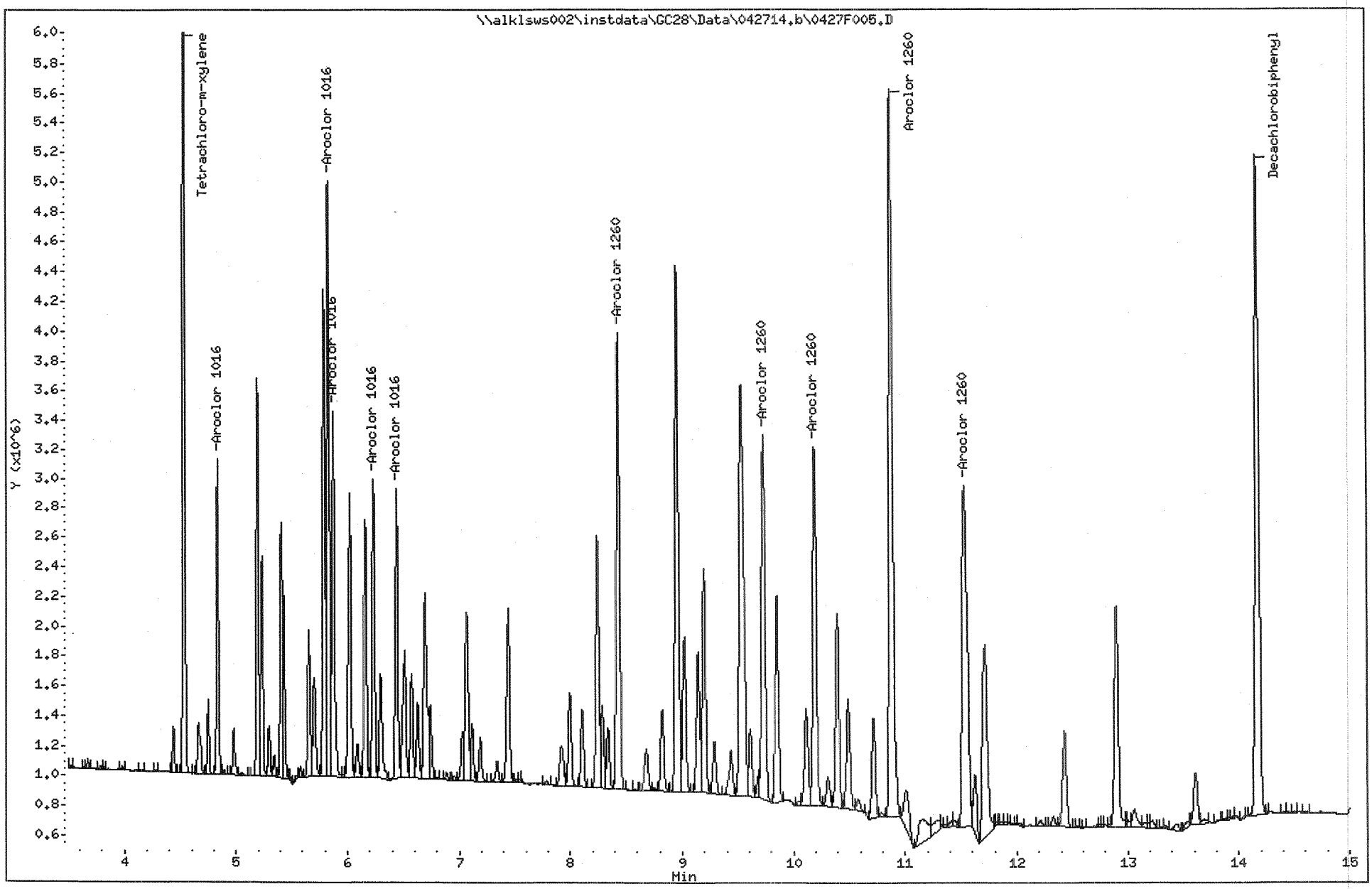
Data File: \\alklsws002\instdata\GC28\Data\042714.b\0427F005.D
Date : 28-APR-2014 02:38
Client ID:
Sample Info: KQ1403721-08LCS

Instrument: GC28.i

Operator: JMSmith

Column phase: DB-XLB

Column diameter: 0.32



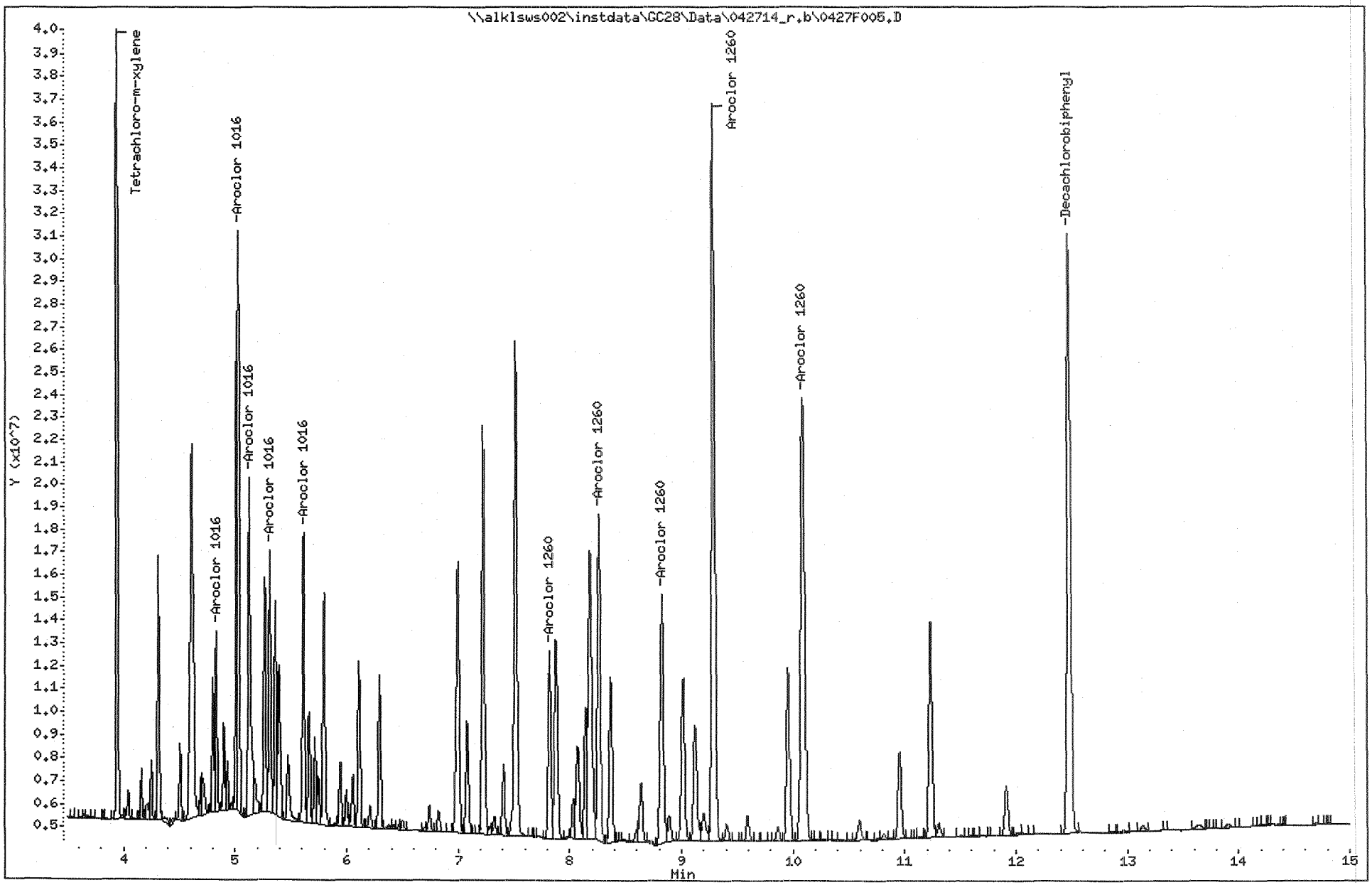
Data File: \\alklsws002\instdata\GC28\Data\042714_r.b\0427F005.D
Date : 28-APR-2014 02:38
Client ID:
Sample Info: KQ1403721-08LCS

Instrument: GC28.i

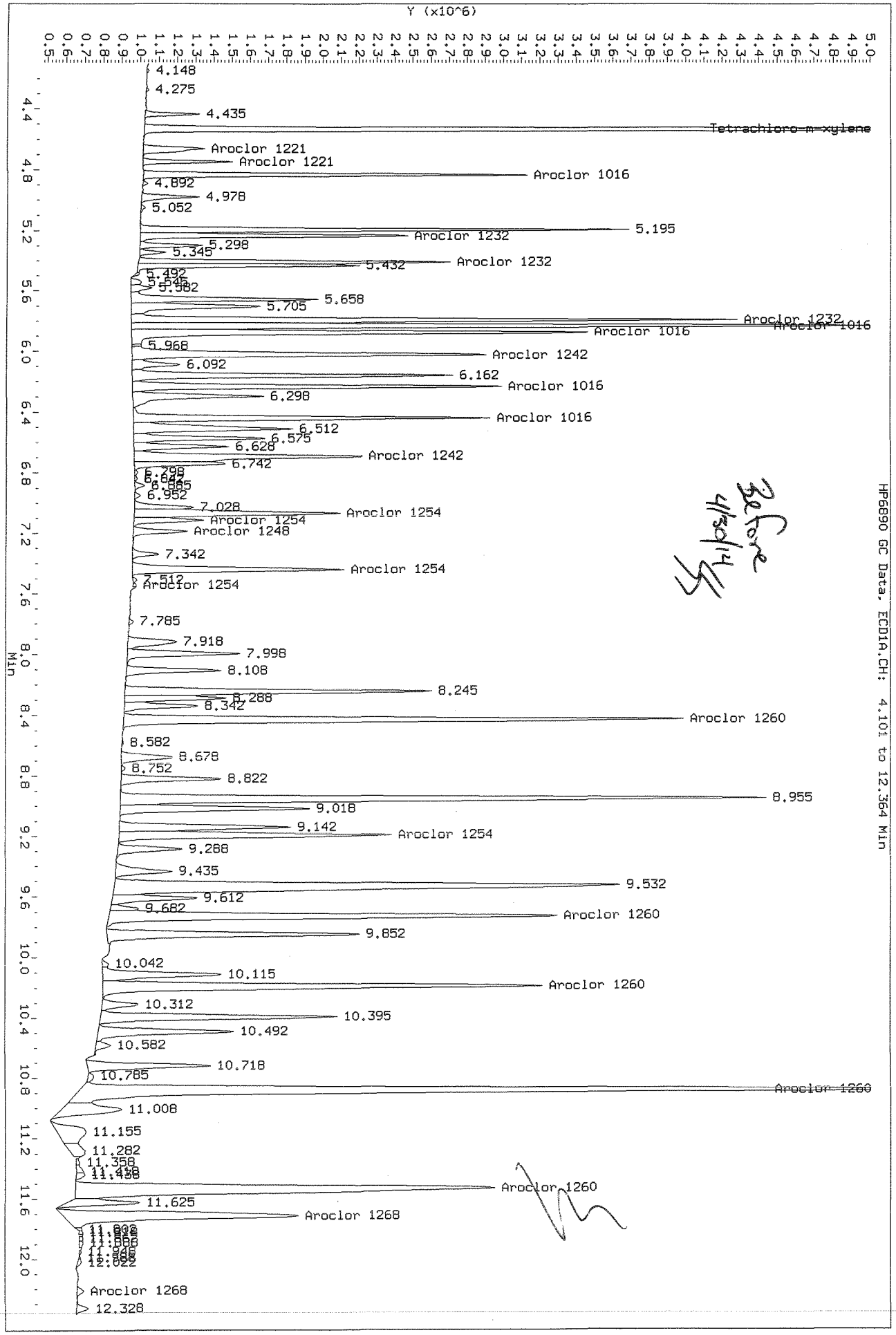
Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32

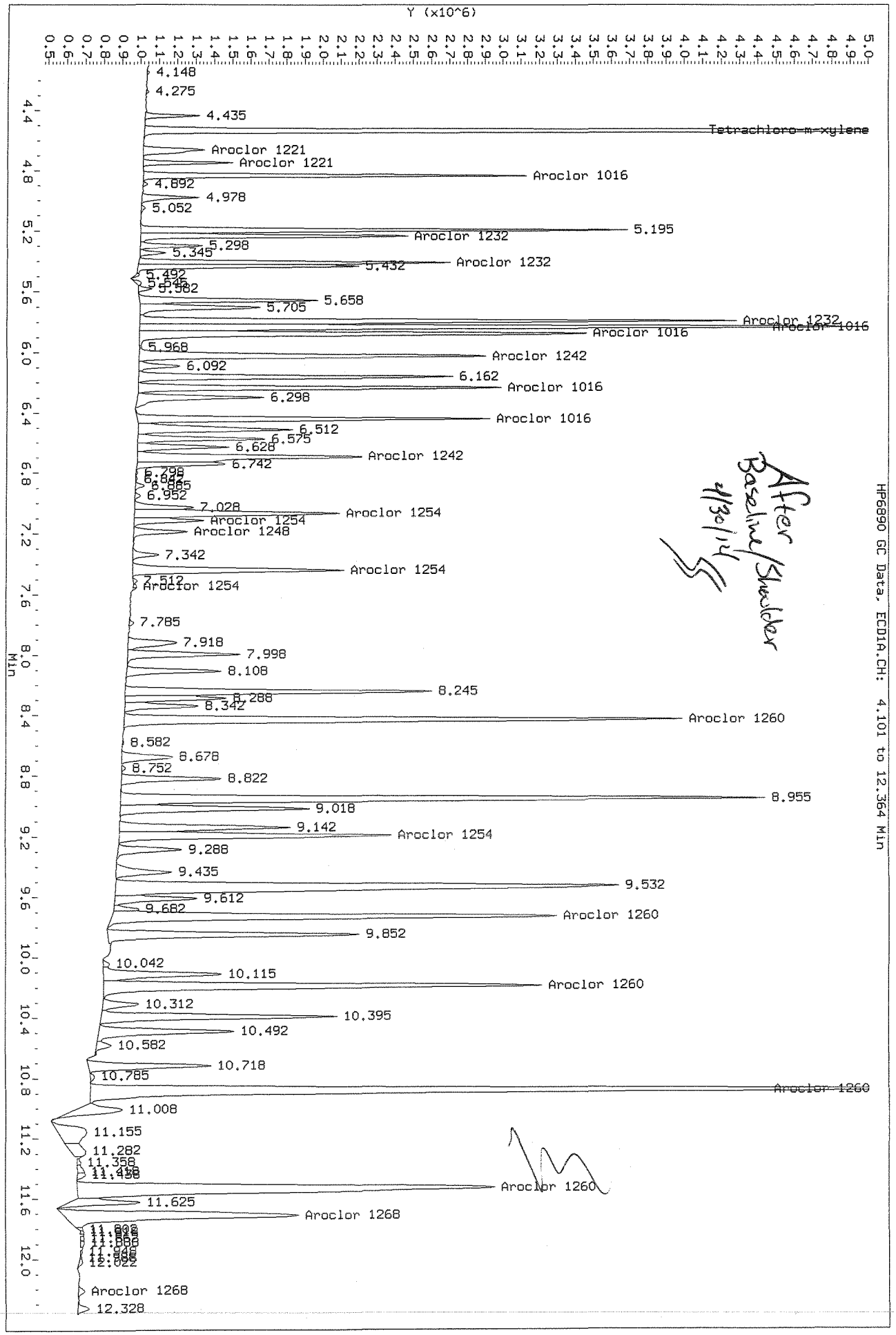


Data File: \\alklsws002\instdata\GC28\Data\042714.b\0427F005.D
Injection Date: 28-APR-2014 02:38
Instrument: GC28.1
Client Sample ID:



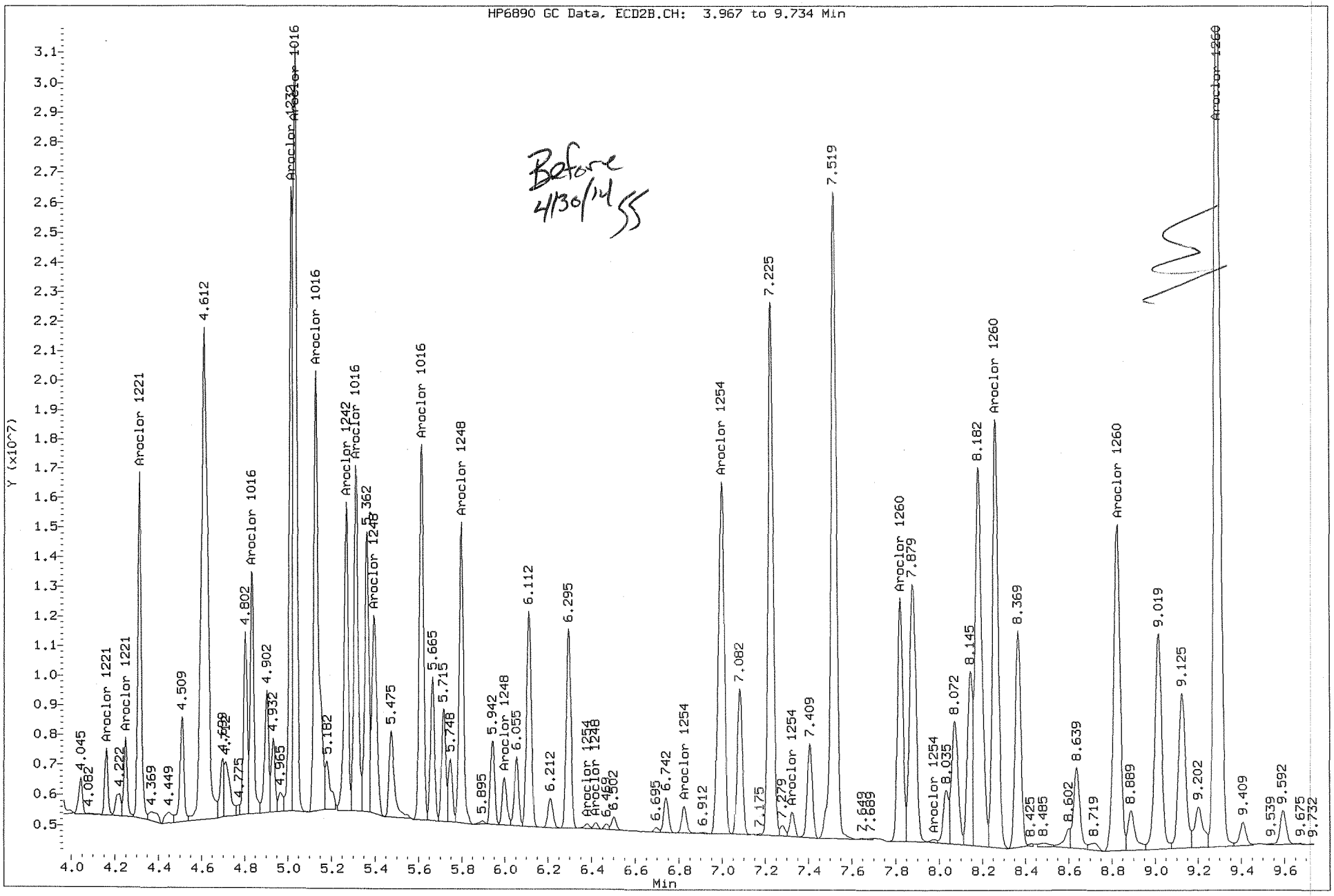
Before 4/30/14

Data File: \\alklsws002\instdata\GC28\Data\042714.b\0427F005.D
Injection Date: 28-APR-2014 02:38
Instrument: GC28.1
Client Sample ID:

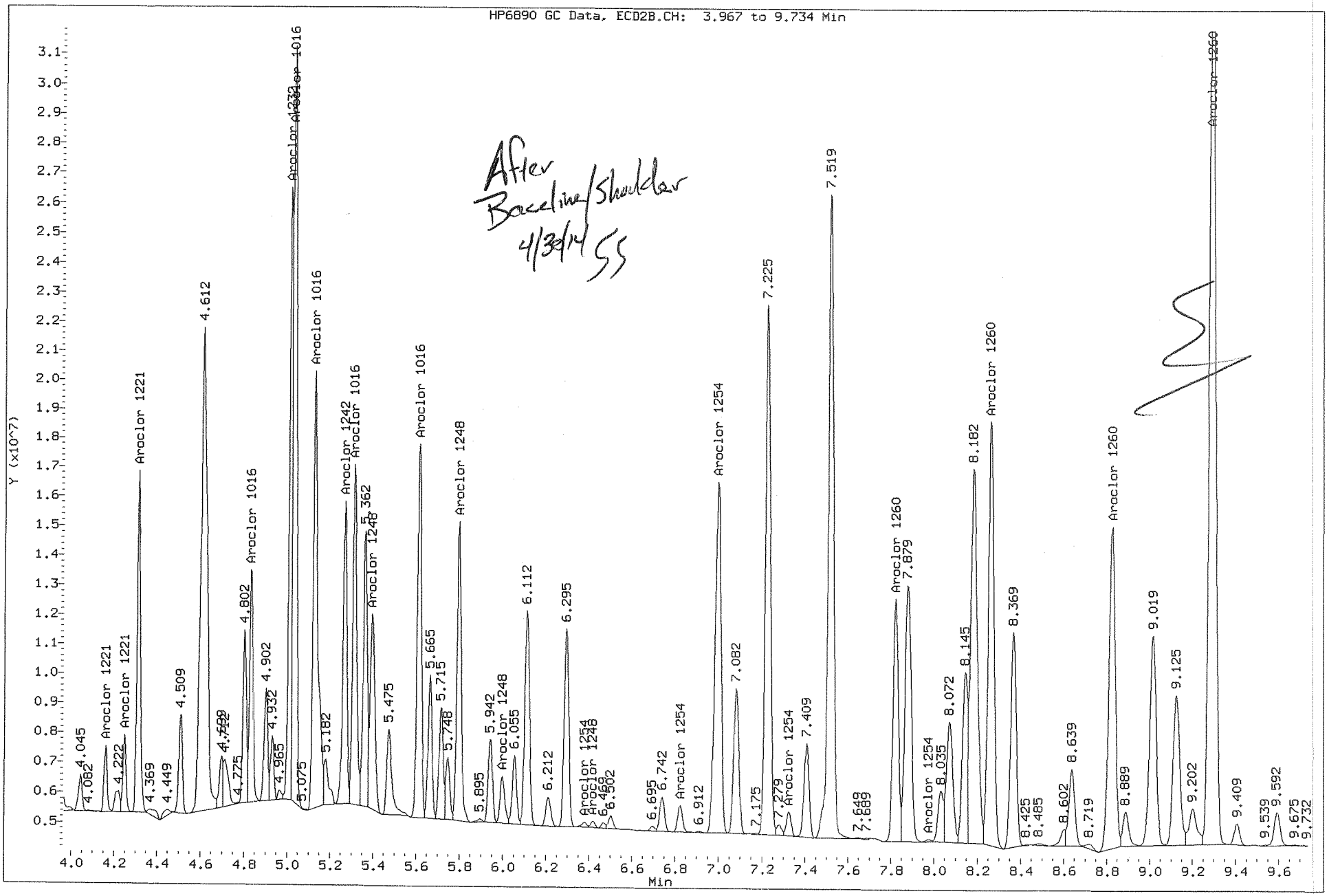


HP6890 GC Data, ECD1A.CH: 4.101 to 12.364 Min

Data File: \\alklsws002\instdata\GC28\Data\042714_r.b\0427F005.D
Injection Date: 28-APR-2014 02:38
Instrument: GC28.i
Client Sample ID:



Data File: \\alklsws002\instdata\GC28\Data\042714_r.b\0427F005.D
Injection Date: 28-APR-2014 02:38
Instrument: GC28.i
Client Sample ID:



Sequence Name: C:\GC28\SEQUENCE\042414CAL.S
Comment: PCB Aroclors by EPA 8082A
Operator: JMSmith
Data Path: C:\GC28\DATA\042414CAL\
Pre-Seq Cmd:
Post-Seq Cmd:

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

Line	Type	Vial	DataFile	Method	Sample Name
1	SOLN	90	0424F001	PCB_REG	HEXANE
2	SOLN	90	0424F002	PCB_REG	HEXANE
3	SOLN	100	0424F003	PCB_REG	2,4'/4,4'-DDx MARKER PCB6-27H
4	IB	86	0424F004	PCB_REG	IB
5	ICAL	1	0424F005	PCB_REG	1660 @ 2.5-25ppb PCB6-31E
6	ICAL	2	0424F006	PCB_REG	1660 @ 5.0-50ppb PCB6-31D
7	ICAL	3	0424F007	PCB_REG	1660 @ 50-500ppb PCB6-38M
8	ICAL	4	0424F008	PCB_REG	1660 @ 100-1000ppb PCB6-31C
9	ICAL	5	0424F009	PCB_REG	1660 @ 200-2000ppb PCB6-31B
10	ICAL	6	0424F010	PCB_REG	1660 @ 500-5000ppb PCB6-31A
11	ICAL	7	0424F011	PCB_REG	2154 @ 50-25ppb PCB6-39G
12	ICAL	8	0424F012	PCB_REG	2154 @ 100-50ppb PCB6-39F
13	ICAL	9	0424F013	PCB_REG	2154 @ 1000-500ppb PCB6-39E
14	ICAL	10	0424F014	PCB_REG	2154 @ 2000-1000ppb PCB6-39D
15	ICAL	11	0424F015	PCB_REG	2154 @ 4000-2000ppb PCB6-39C
16	ICAL	12	0424F016	PCB_REG	2154 @ 10000-5000ppb PCB6-39B
17	ICAL	13	0424F017	PCB_REG	3262 @ 25ppb PCB6-33G
18	ICAL	14	0424F018	PCB_REG	3262 @ 50ppb PCB6-33F
19	ICAL	15	0424F019	PCB_REG	3262 @ 500ppb PCB6-33E
20	ICAL	16	0424F020	PCB_REG	3262 @ 1000ppb PCB6-33D
21	ICAL	17	0424F021	PCB_REG	3262 @ 2000ppb PCB6-33C
22	ICAL	18	0424F022	PCB_REG	3262 @ 5000ppb PCB6-33B
23	ICAL	19	0424F023	PCB_REG	4268 @ 25ppb PCB6-38F
24	ICAL	20	0424F024	PCB_REG	4268 @ 50ppb PCB6-38E
25	ICAL	21	0424F025	PCB_REG	4268 @ 500ppb PCB6-38D
26	ICAL	22	0424F026	PCB_REG	4268 @ 1000ppb PCB6-38C
27	ICAL	23	0424F027	PCB_REG	4268 @ 2000ppb PCB6-38B
28	ICAL	24	0424F028	PCB_REG	4268 @ 5000ppb PCB6-38A
29	ICAL	25	0424F029	PCB_REG	48 @ 25ppb PCB6-38K
30	ICAL	26	0424F030	PCB_REG	48 @ 50ppb PCB6-38L
31	ICAL	27	0424F031	PCB_REG	48 @ 500ppb PCB6-38J
32	ICAL	28	0424F032	PCB_REG	48 @ 1000ppb PCB6-38I
33	ICAL	29	0424F033	PCB_REG	48 @ 2000ppb PCB6-38H
34	ICAL	30	0424F034	PCB_REG	48 @ 5000ppb PCB6-38G
35	ICV	31	0424F035	PCB_REG	1016 ICV @ 1000ppb PCB6-36I
36	ICV	32	0424F036	PCB_REG	1221 ICV @ 1000ppb PCB6-36J
37	ICV	33	0424F037	PCB_REG	1232 ICV @ 1000ppb PCB6-36K
38	ICV	34	0424F038	PCB_REG	1242 ICV @ 1000ppb PCB6-36L
39	ICV	35	0424F039	PCB_REG	1248 ICV @ 1000ppb PCB6-36M
40	ICV	36	0424F040	PCB_REG	1254 ICV @ 1000ppb PCB6-36N
41	ICV	37	0424F041	PCB_REG	1260 ICV @ 1000ppb PCB6-36O
42	ICV	38	0424F042	PCB_REG	1262 ICV @ 1000ppb PCB6-37A
43	ICV	39	0424F043	PCB_REG	1268 ICV @ 1000ppb PCB6-37B

Last Modified: Fri Apr 25 05:01:45 2014 Page: 1

Initial Calibration - Summary Report

Calibration ID:	CAL13284	**Instrument ID:**	GC28.i
Method ID:	MJ696	**Column Name:**	DB-XLB

Parameter Name	Type	Curve Fit	Min RF	Mean RF	Max %RSD	%RSD	Min COD	COD	MRL Check	Conc ½ Low pt.
Aroclor 1221 {1}	MULTI	AverageRF		8.3E+2	20	12.7			OK	
Aroclor 1221 {2}	MULTI	AverageRF		8.6E+2	20	17.7			OK	
Aroclor 1221 {3}	MULTI	AverageRF		3.0E+3	20	17.9			OK	
Aroclor 1232 {1}	MULTI	AverageRF		2.8E+3	20	17.4			OK	
Aroclor 1232 {2}	MULTI	AverageRF		9.3E+2	20	17.4			OK	
Aroclor 1232 {3}	MULTI	AverageRF		1.3E+3	20	19.8			OK	
Aroclor 1232 {4}	MULTI	AverageRF		2.2E+3	20	13.8			OK	
Aroclor 1232 {5}	MULTI	AverageRF		2.7E+3	20	11.6			OK	
Aroclor 1242 {1}	MULTI	AverageRF		1.9E+3	20	15.3			OK	
Aroclor 1242 {2}	MULTI	AverageRF		1.5E+3	20	18.9			OK	
Aroclor 1242 {3}	MULTI	AverageRF		4.6E+3	20	13.2			OK	
Aroclor 1242 {4}	MULTI	AverageRF		2.5E+3	20	12.4			OK	
Aroclor 1242 {5}	MULTI	AverageRF		2.2E+3	20	9.9			OK	
Aroclor 1248 {1}	MULTI	AverageRF		2.8E+3	20	15.7			OK	
Aroclor 1248 {2}	MULTI	AverageRF		2.9E+3	20	11.7			OK	
Aroclor 1248 {3}	MULTI	AverageRF		3.4E+3	20	17.7			OK	
Aroclor 1248 {4}	MULTI	AverageRF		2.8E+3	20	10.4			OK	
Aroclor 1248 {5}	MULTI	AverageRF		4.7E+3	20	14.4			OK	
Aroclor 1254 {1}	MULTI	AverageRF		5.1E+3	20	14.6			OK	
Aroclor 1254 {2}	MULTI	AverageRF		2.6E+3	20	11.6			OK	
Aroclor 1254 {3}	MULTI	AverageRF		8.0E+3	20	16.4			OK	
Aroclor 1254 {4}	MULTI	AverageRF		2.8E+3	20	15.8			OK	
Aroclor 1254 {5}	MULTI	AverageRF		4.4E+3	20	8.1			OK	
Aroclor 1262 {1}	MULTI	AverageRF		8.0E+3	20	10.5			OK	
Aroclor 1262 {2}	MULTI	AverageRF		6.5E+3	20	12.4			OK	
Aroclor 1262 {3}	MULTI	AverageRF		1.4E+4	20	9.2			OK	
Aroclor 1262 {4}	MULTI	AverageRF		9.8E+3	20	9.9			OK	
Aroclor 1262 {5}	MULTI	AverageRF		5.4E+3	20	10.5			OK	
Aroclor 1268 {1}	MULTI	AverageRF		1.8E+4	20	11.1			OK	
Aroclor 1268 {2}	MULTI	AverageRF		1.6E+4	20	9.7			OK	
Aroclor 1268 {3}	MULTI	AverageRF		1.4E+4	20	9.4			OK	
Aroclor 1268 {4}	MULTI	AverageRF		4.4E+4	20	9.1			OK	
Tetrachloro-m-xylene	SURR	AverageRF		1.2E+5	20	8.2			NA	
Decachlorobiphenyl	SURR	AverageRF		1.1E+5	20	11.3			NA	
Aroclor 1016 {1}	MULTI	AverageRF		2.4E+3	20	16.6			OK	
Aroclor 1016 {2}	MULTI	AverageRF		5.8E+3	20	12.8			OK	
Aroclor 1016 {3}	MULTI	AverageRF		3.8E+3	20	13.3			OK	
Aroclor 1016 {4}	MULTI	AverageRF		2.9E+3	20	14.8			OK	
Aroclor 1016 {5}	MULTI	AverageRF		2.9E+3	20	12.7			OK	
Aroclor 1260 {1}	MULTI	AverageRF		6.4E+3	20	16.4			OK	
Aroclor 1260 {2}	MULTI	AverageRF		4.7E+3	20	9.6			OK	
Aroclor 1260 {3}	MULTI	AverageRF		5.1E+3	20	12.4			OK	
Aroclor 1260 {4}	MULTI	AverageRF		1.2E+4	20	10.3			OK	
Aroclor 1260 {5}	MULTI	AverageRF		7.5E+3	20	8.6			OK	

Initial Calibration - Summary Report

Calibration ID:	CAL13284	**Instrument ID:**	GC28.i
Method ID:	MJ696	**Column Name:**	DB-35MS

Parameter Name	Type	Curve Fit	Min RF	Mean RF	Max %RSD	%RSD	Min COD	COD	MRL Check	Conc ½ Low pt.
Aroclor 1221 {1}	MULTI	AverageRF		6.5E+3	20	12.4			OK	
Aroclor 1221 {2}	MULTI	AverageRF		4.2E+3	20	12.6			OK	
Aroclor 1221 {3}	MULTI	AverageRF		1.6E+4	20	17.4			OK	
Aroclor 1232 {1}	MULTI	AverageRF		1.5E+4	20	18.5			OK	
Aroclor 1232 {2}	MULTI	AverageRF		4.7E+3	20	14.2			OK	
Aroclor 1232 {3}	MULTI	AverageRF		9.6E+3	20	12.6			OK	
Aroclor 1232 {4}	MULTI	AverageRF		1.5E+4	20	10.4			OK	
Aroclor 1232 {5}	MULTI	AverageRF		1.0E+4	20	13.1			OK	
Aroclor 1242 {1}	MULTI	AverageRF		1.0E+4	20	16.3			OK	
Aroclor 1242 {2}	MULTI	AverageRF		7.9E+3	20	16.1			OK	
Aroclor 1242 {3}	MULTI	AverageRF		2.5E+4	20	8.7			OK	
Aroclor 1242 {4}	MULTI	AverageRF		1.7E+4	20	13.7			OK	
Aroclor 1242 {5}	MULTI	AverageRF		1.0E+4	20	8.6			OK	
Aroclor 1248 {1}	MULTI	AverageRF		1.4E+4	20	12.0			OK	
Aroclor 1248 {2}	MULTI	AverageRF		1.3E+4	20	13.8			OK	
Aroclor 1248 {3}	MULTI	AverageRF		1.9E+4	20	12.7			OK	
Aroclor 1248 {4}	MULTI	AverageRF		1.4E+4	20	10.6			OK	
Aroclor 1248 {5}	MULTI	AverageRF		1.3E+4	20	8.8			OK	
Aroclor 1254 {1}	MULTI	AverageRF		1.4E+4	20	15.3			OK	
Aroclor 1254 {2}	MULTI	AverageRF		2.4E+4	20	5.0			OK	
Aroclor 1254 {3}	MULTI	AverageRF		5.2E+4	20	8.1			OK	
Aroclor 1254 {4}	MULTI	AverageRF		3.4E+4	20	10.3			OK	
Aroclor 1254 {5}	MULTI	AverageRF		2.1E+4	20	2.3			OK	
Aroclor 1262 {1}	MULTI	AverageRF		4.8E+4	20	12.0			OK	
Aroclor 1262 {2}	MULTI	AverageRF		4.1E+4	20	10.3			OK	
Aroclor 1262 {3}	MULTI	AverageRF		8.7E+4	20	6.3			OK	
Aroclor 1262 {4}	MULTI	AverageRF		6.6E+4	20	7.9			OK	
Aroclor 1262 {5}	MULTI	AverageRF		3.2E+4	20	7.2			OK	
Aroclor 1268 {1}	MULTI	AverageRF		1.2E+5	20	10.0			OK	
Aroclor 1268 {2}	MULTI	AverageRF		1.0E+5	20	8.2			OK	
Aroclor 1268 {3}	MULTI	AverageRF		9.1E+4	20	8.0			OK	
Aroclor 1268 {4}	MULTI	AverageRF		2.8E+5	20	7.4			OK	
Tetrachloro-m-xylene	SURR	AverageRF		6.0E+5	20	6.9			NA	
Decachlorobiphenyl	SURR	AverageRF		7.1E+5	20	14.8			NA	
Aroclor 1016 {1}	MULTI	AverageRF		9.7E+3	20	13.8			OK	
Aroclor 1016 {2}	MULTI	AverageRF		3.2E+4	20	7.6			OK	
Aroclor 1016 {3}	MULTI	AverageRF		2.1E+4	20	12.2			OK	
Aroclor 1016 {4}	MULTI	AverageRF		1.7E+4	20	15.4			OK	
Aroclor 1016 {5}	MULTI	AverageRF		1.7E+4	20	11.1			OK	
Aroclor 1260 {1}	MULTI	AverageRF		1.8E+4	20	4.2			OK	
Aroclor 1260 {2}	MULTI	AverageRF		2.9E+4	20	11.5			OK	
Aroclor 1260 {3}	MULTI	AverageRF		2.9E+4	20	9.5			OK	
Aroclor 1260 {4}	MULTI	AverageRF		7.1E+4	20	5.8			OK	
Aroclor 1260 {5}	MULTI	AverageRF		5.4E+4	20	6.8			OK	

Initial Calibration - Detailed Report

Calibration ID:	CAL13284	**Instrument ID:**	GC28.i
Method ID:	MJ696	**Column Name:**	DB-XLB
		Calibration Fit:	AverageRF

#	FileID	File Location	Acquisition Date	Quantitation Date	Last Updated
1	249439	\\alklsws002\instdata\GC28\Data\042414CAL.b\0424F005.D	04/25/2014 06:34	04/26/2014 01:13	04/26/2014 01:18
2	249441	\\alklsws002\instdata\GC28\Data\042414CAL.b\0424F006.D	04/25/2014 06:57	04/26/2014 01:13	04/26/2014 01:18
3	249443	\\alklsws002\instdata\GC28\Data\042414CAL.b\0424F007.D	04/25/2014 07:19	04/26/2014 01:13	04/26/2014 01:18
4	249445	\\alklsws002\instdata\GC28\Data\042414CAL.b\0424F008.D	04/25/2014 07:42	04/26/2014 01:13	04/26/2014 01:18
5	249447	\\alklsws002\instdata\GC28\Data\042414CAL.b\0424F009.D	04/25/2014 08:05	04/26/2014 01:13	04/26/2014 01:18
6	249449	\\alklsws002\instdata\GC28\Data\042414CAL.b\0424F010.D	04/25/2014 08:28	04/26/2014 01:13	04/26/2014 01:18
7	249451	\\alklsws002\instdata\GC28\Data\042414CAL.b\0424F011.D	04/25/2014 08:51	04/26/2014 01:13	04/26/2014 01:18
8	249453	\\alklsws002\instdata\GC28\Data\042414CAL.b\0424F012.D	04/25/2014 09:14	04/26/2014 01:13	04/26/2014 01:18
9	249455	\\alklsws002\instdata\GC28\Data\042414CAL.b\0424F013.D	04/25/2014 09:37	04/26/2014 01:13	04/26/2014 01:18
10	249457	\\alklsws002\instdata\GC28\Data\042414CAL.b\0424F014.D	04/25/2014 10:00	04/26/2014 01:13	04/26/2014 01:18
11	249459	\\alklsws002\instdata\GC28\Data\042414CAL.b\0424F015.D	04/25/2014 10:23	04/26/2014 01:13	04/26/2014 01:18
12	249461	\\alklsws002\instdata\GC28\Data\042414CAL.b\0424F016.D	04/25/2014 10:46	04/26/2014 01:13	04/26/2014 01:18
13	249463	\\alklsws002\instdata\GC28\Data\042414CAL.b\0424F017.D	04/25/2014 11:09	04/26/2014 01:13	04/26/2014 01:18
14	249465	\\alklsws002\instdata\GC28\Data\042414CAL.b\0424F018.D	04/25/2014 11:32	04/26/2014 01:13	04/26/2014 01:18
15	249467	\\alklsws002\instdata\GC28\Data\042414CAL.b\0424F019.D	04/25/2014 11:55	04/26/2014 01:13	04/26/2014 01:18
16	249469	\\alklsws002\instdata\GC28\Data\042414CAL.b\0424F020.D	04/25/2014 12:18	04/26/2014 01:13	04/26/2014 01:18
17	249471	\\alklsws002\instdata\GC28\Data\042414CAL.b\0424F021.D	04/25/2014 12:41	04/26/2014 01:13	04/26/2014 01:18
18	249473	\\alklsws002\instdata\GC28\Data\042414CAL.b\0424F022.D	04/25/2014 13:05	04/26/2014 01:13	04/26/2014 01:18
19	249475	\\alklsws002\instdata\GC28\Data\042414CAL.b\0424F023.D	04/25/2014 13:28	04/26/2014 01:13	04/26/2014 01:18
20	249477	\\alklsws002\instdata\GC28\Data\042414CAL.b\0424F024.D	04/25/2014 13:51	04/26/2014 01:13	04/26/2014 01:18
21	249479	\\alklsws002\instdata\GC28\Data\042414CAL.b\0424F025.D	04/25/2014 14:14	04/26/2014 01:13	04/26/2014 01:18
22	249481	\\alklsws002\instdata\GC28\Data\042414CAL.b\0424F026.D	04/25/2014 14:37	04/26/2014 01:13	04/26/2014 01:18
23	249483	\\alklsws002\instdata\GC28\Data\042414CAL.b\0424F027.D	04/25/2014 15:00	04/26/2014 01:13	04/26/2014 01:18
24	249485	\\alklsws002\instdata\GC28\Data\042414CAL.b\0424F028.D	04/25/2014 15:23	04/26/2014 01:13	04/26/2014 01:18
25	249487	\\alklsws002\instdata\GC28\Data\042414CAL.b\0424F029.D	04/25/2014 15:46	04/26/2014 01:13	04/26/2014 01:18
26	249489	\\alklsws002\instdata\GC28\Data\042414CAL.b\0424F030.D	04/25/2014 16:09	04/26/2014 01:13	04/26/2014 01:18
27	249491	\\alklsws002\instdata\GC28\Data\042414CAL.b\0424F031.D	04/25/2014 16:32	04/26/2014 01:13	04/26/2014 01:18
28	249493	\\alklsws002\instdata\GC28\Data\042414CAL.b\0424F032.D	04/25/2014 16:56	04/26/2014 01:13	04/26/2014 01:18
29	249495	\\alklsws002\instdata\GC28\Data\042414CAL.b\0424F033.D	04/25/2014 17:19	04/26/2014 01:13	04/26/2014 01:18
30	249497	\\alklsws002\instdata\GC28\Data\042414CAL.b\0424F034.D	04/25/2014 17:42	04/26/2014 01:13	04/26/2014 01:18

Parameter Name	#	RF	#	RF	#	RF	#	RF	#	RF	#	RF	Mean RF	%RSD
Tetrachloro-m-xylene	1	1.3E+5	2	1.3E+5	3	1.1E+5	4	1.1E+5	5	1.1E+5	6	1.1E+5	1.2E+5	8.2
Decachlorobiphenyl	1	1.3E+5	2	1.3E+5	3	1.1E+5	4	1.1E+5	5	1.1E+5	6	9.5E+4	1.1E+5	11.3
Aroclor 1016 {1}	1	3.0E+3	2	2.8E+3	3	2.3E+3	4	2.3E+3	5	2.1E+3	6	1.9E+3	2.4E+3	16.6
Aroclor 1016 {2}	1	6.8E+3	2	6.6E+3	3	5.6E+3	4	5.6E+3	5	5.2E+3	6	5.0E+3	5.8E+3	12.8
Aroclor 1016 {3}	1	4.5E+3	2	4.3E+3	3	3.7E+3	4	3.7E+3	5	3.4E+3	6	3.2E+3	3.8E+3	13.3
Aroclor 1016 {4}	1	3.4E+3	2	3.4E+3	3	2.8E+3	4	2.8E+3	5	2.6E+3	6	2.3E+3	2.9E+3	14.8
Aroclor 1016 {5}	1	3.3E+3	2	3.3E+3	3	2.8E+3	4	2.8E+3	5	2.6E+3	6	2.4E+3	2.9E+3	12.7
Aroclor 1221 {1}	7	9.6E+2	8	9.0E+2	9	9.1E+2	10	7.9E+2	11	7.6E+2	12	6.9E+2	8.3E+2	12.7
Aroclor 1221 {2}	7	1.1E+3	8	9.2E+2	9	8.9E+2	10	8.0E+2	11	7.7E+2	12	6.7E+2	8.6E+2	17.7
Aroclor 1221 {3}	7	3.8E+3	8	3.5E+3	9	3.0E+3	10	2.8E+3	11	2.6E+3	12	2.4E+3	3.0E+3	17.9
Aroclor 1232 {1}	13	3.5E+3	14	3.3E+3	15	2.8E+3	16	2.7E+3	17	2.4E+3	18	2.2E+3	2.8E+3	17.4
Aroclor 1232 {2}	13	1.2E+3	14	1.0E+3	15	9.3E+2	16	8.9E+2	17	7.8E+2	18	7.3E+2	9.3E+2	17.4
Aroclor 1232 {3}	13	1.7E+3	14	1.6E+3	15	1.4E+3	16	1.2E+3	17	1.1E+3	18	1.0E+3	1.3E+3	19.8
Aroclor 1232 {4}	13	2.5E+3	14	2.6E+3	15	2.2E+3	16	2.1E+3	17	1.9E+3	18	1.8E+3	2.2E+3	13.8
Aroclor 1232 {5}	13	2.9E+3	14	3.0E+3	15	2.7E+3	16	2.7E+3	17	2.4E+3	18	2.2E+3	2.7E+3	11.6
Aroclor 1242 {1}	19	2.2E+3	20	2.3E+3	21	2.0E+3	22	1.8E+3	23	1.7E+3	24	1.5E+3	1.9E+3	15.3
Aroclor 1242 {2}	19	2.0E+3	20	1.8E+3	21	1.6E+3	22	1.4E+3	23	1.3E+3	24	1.2E+3	1.5E+3	18.9

Initial Calibration - Detailed Report

Calibration ID:	CAL13284	**Instrument ID:**	GC28.i
Method ID:	MJ696	**Column Name:**	DB-XLB
		Calibration Fit:	AverageRF

Parameter Name	#	RF	#	RF	#	RF	#	RF	#	RF	#	RF	Mean RF	%RSD
Aroclor 1242 {3}	19	5.2E+3	20	5.3E+3	21	4.7E+3	22	4.4E+3	23	4.2E+3	24	3.8E+3	4.6E+3	13.2
Aroclor 1242 {4}	19	2.9E+3	20	2.8E+3	21	2.6E+3	22	2.4E+3	23	2.3E+3	24	2.0E+3	2.5E+3	12.4
Aroclor 1242 {5}	19	2.4E+3	20	2.4E+3	21	2.5E+3	22	2.2E+3	23	2.1E+3	24	1.9E+3	2.2E+3	9.9
Aroclor 1248 {1}	25	3.4E+3	26	3.4E+3	27	2.7E+3	28	2.7E+3	29	2.5E+3	30	2.4E+3	2.8E+3	15.7
Aroclor 1248 {2}	25	3.1E+3	26	3.3E+3	27	2.9E+3	28	2.7E+3	29	2.7E+3	30	2.4E+3	2.9E+3	11.7
Aroclor 1248 {3}	25	4.3E+3	26	4.0E+3	27	3.4E+3	28	3.2E+3	29	3.0E+3	30	2.7E+3	3.4E+3	17.7
Aroclor 1248 {4}	25	3.2E+3	26	3.2E+3	27	2.8E+3	28	2.8E+3	29	2.6E+3	30	2.4E+3	2.8E+3	10.4
Aroclor 1248 {5}	25	5.7E+3	26	5.3E+3	27	4.5E+3	28	4.4E+3	29	4.2E+3	30	4.0E+3	4.7E+3	14.4
Aroclor 1254 {1}	7	6.1E+3	8	5.6E+3	9	5.2E+3	10	4.7E+3	11	4.6E+3	12	4.1E+3	5.1E+3	14.6
Aroclor 1254 {2}	7	3.0E+3	8	2.8E+3	9	2.6E+3	10	2.4E+3	11	2.3E+3	12	2.2E+3	2.6E+3	11.6
Aroclor 1254 {3}	7	1.0E+4	8	8.9E+3	9	8.1E+3	10	7.2E+3	11	7.1E+3	12	6.5E+3	8.0E+3	16.4
Aroclor 1254 {4}	7	3.4E+3	8	3.1E+3	9	2.8E+3	10	2.5E+3	11	2.5E+3	12	2.2E+3	2.8E+3	15.8
Aroclor 1254 {5}	7	5.0E+3	8	4.4E+3	9	4.5E+3	10	4.2E+3	11	4.2E+3	12	4.0E+3	4.4E+3	8.1
Aroclor 1260 {1}	1	8.0E+3	2	7.4E+3	3	6.2E+3	4	6.1E+3	5	5.7E+3	6	5.2E+3	6.4E+3	16.4
Aroclor 1260 {2}	1	5.0E+3	2	5.3E+3	3	4.7E+3	4	4.6E+3	5	4.4E+3	6	4.0E+3	4.7E+3	9.6
Aroclor 1260 {3}	1	6.0E+3	2	5.7E+3	3	4.9E+3	4	4.9E+3	5	4.7E+3	6	4.3E+3	5.1E+3	12.4
Aroclor 1260 {4}	1	1.3E+4	2	1.2E+4	3	1.1E+4	4	1.1E+4	5	1.1E+4	6	1.0E+4	1.2E+4	10.3
Aroclor 1260 {5}	1	8.4E+3	2	8.0E+3	3	7.4E+3	4	7.4E+3	5	7.2E+3	6	6.6E+3	7.5E+3	8.6
Aroclor 1262 {1}	13	8.9E+3	14	8.9E+3	15	8.0E+3	16	8.1E+3	17	7.3E+3	18	6.9E+3	8.0E+3	10.5
Aroclor 1262 {2}	13	7.5E+3	14	7.2E+3	15	6.4E+3	16	6.5E+3	17	5.8E+3	18	5.4E+3	6.5E+3	12.4
Aroclor 1262 {3}	13	1.6E+4	14	1.5E+4	15	1.4E+4	16	1.4E+4	17	1.3E+4	18	1.3E+4	1.4E+4	9.2
Aroclor 1262 {4}	13	1.1E+4	14	1.1E+4	15	9.9E+3	16	1.0E+4	17	9.0E+3	18	8.4E+3	9.8E+3	9.9
Aroclor 1262 {5}	13	6.1E+3	14	5.8E+3	15	5.4E+3	16	5.5E+3	17	4.9E+3	18	4.6E+3	5.4E+3	10.5
Aroclor 1268 {1}	19	2.1E+4	20	2.0E+4	21	1.9E+4	22	1.7E+4	23	1.7E+4	24	1.6E+4	1.8E+4	11.1
Aroclor 1268 {2}	19	1.8E+4	20	1.8E+4	21	1.7E+4	22	1.5E+4	23	1.5E+4	24	1.4E+4	1.6E+4	9.7
Aroclor 1268 {3}	19	1.5E+4	20	1.5E+4	21	1.5E+4	22	1.3E+4	23	1.3E+4	24	1.2E+4	1.4E+4	9.4
Aroclor 1268 {4}	19	4.8E+4	20	4.9E+4	21	4.5E+4	22	4.1E+4	23	4.1E+4	24	4.0E+4	4.4E+4	9.1

Initial Calibration - Detailed Report

Calibration ID:	CAL13284	**Instrument ID:**	GC28.i
Method ID:	MJ696	**Column Name:**	DB-XLB
		Calibration Fit:	AverageRF

#	FileID	File Location	Acquisition Date	Quantitation Date	Last Updated
1	249439	\\alklsws002\instdata\GC28\Data\042414CAL.b\0424F005.D	04/25/2014 06:34	04/26/2014 01:13	04/26/2014 01:18
2	249441	\\alklsws002\instdata\GC28\Data\042414CAL.b\0424F006.D	04/25/2014 06:57	04/26/2014 01:13	04/26/2014 01:18
3	249443	\\alklsws002\instdata\GC28\Data\042414CAL.b\0424F007.D	04/25/2014 07:19	04/26/2014 01:13	04/26/2014 01:18
4	249445	\\alklsws002\instdata\GC28\Data\042414CAL.b\0424F008.D	04/25/2014 07:42	04/26/2014 01:13	04/26/2014 01:18
5	249447	\\alklsws002\instdata\GC28\Data\042414CAL.b\0424F009.D	04/25/2014 08:05	04/26/2014 01:13	04/26/2014 01:18
6	249449	\\alklsws002\instdata\GC28\Data\042414CAL.b\0424F010.D	04/25/2014 08:28	04/26/2014 01:13	04/26/2014 01:18
7	249451	\\alklsws002\instdata\GC28\Data\042414CAL.b\0424F011.D	04/25/2014 08:51	04/26/2014 01:13	04/26/2014 01:18
8	249453	\\alklsws002\instdata\GC28\Data\042414CAL.b\0424F012.D	04/25/2014 09:14	04/26/2014 01:13	04/26/2014 01:18
9	249455	\\alklsws002\instdata\GC28\Data\042414CAL.b\0424F013.D	04/25/2014 09:37	04/26/2014 01:13	04/26/2014 01:18
10	249457	\\alklsws002\instdata\GC28\Data\042414CAL.b\0424F014.D	04/25/2014 10:00	04/26/2014 01:13	04/26/2014 01:18
11	249459	\\alklsws002\instdata\GC28\Data\042414CAL.b\0424F015.D	04/25/2014 10:23	04/26/2014 01:13	04/26/2014 01:18
12	249461	\\alklsws002\instdata\GC28\Data\042414CAL.b\0424F016.D	04/25/2014 10:46	04/26/2014 01:13	04/26/2014 01:18
13	249463	\\alklsws002\instdata\GC28\Data\042414CAL.b\0424F017.D	04/25/2014 11:09	04/26/2014 01:13	04/26/2014 01:18
14	249465	\\alklsws002\instdata\GC28\Data\042414CAL.b\0424F018.D	04/25/2014 11:32	04/26/2014 01:13	04/26/2014 01:18
15	249467	\\alklsws002\instdata\GC28\Data\042414CAL.b\0424F019.D	04/25/2014 11:55	04/26/2014 01:13	04/26/2014 01:18
16	249469	\\alklsws002\instdata\GC28\Data\042414CAL.b\0424F020.D	04/25/2014 12:18	04/26/2014 01:13	04/26/2014 01:18
17	249471	\\alklsws002\instdata\GC28\Data\042414CAL.b\0424F021.D	04/25/2014 12:41	04/26/2014 01:13	04/26/2014 01:18
18	249473	\\alklsws002\instdata\GC28\Data\042414CAL.b\0424F022.D	04/25/2014 13:05	04/26/2014 01:13	04/26/2014 01:18
19	249475	\\alklsws002\instdata\GC28\Data\042414CAL.b\0424F023.D	04/25/2014 13:28	04/26/2014 01:13	04/26/2014 01:18
20	249477	\\alklsws002\instdata\GC28\Data\042414CAL.b\0424F024.D	04/25/2014 13:51	04/26/2014 01:13	04/26/2014 01:18
21	249479	\\alklsws002\instdata\GC28\Data\042414CAL.b\0424F025.D	04/25/2014 14:14	04/26/2014 01:13	04/26/2014 01:18
22	249481	\\alklsws002\instdata\GC28\Data\042414CAL.b\0424F026.D	04/25/2014 14:37	04/26/2014 01:13	04/26/2014 01:18
23	249483	\\alklsws002\instdata\GC28\Data\042414CAL.b\0424F027.D	04/25/2014 15:00	04/26/2014 01:13	04/26/2014 01:18
24	249485	\\alklsws002\instdata\GC28\Data\042414CAL.b\0424F028.D	04/25/2014 15:23	04/26/2014 01:13	04/26/2014 01:18
25	249487	\\alklsws002\instdata\GC28\Data\042414CAL.b\0424F029.D	04/25/2014 15:46	04/26/2014 01:13	04/26/2014 01:18
26	249489	\\alklsws002\instdata\GC28\Data\042414CAL.b\0424F030.D	04/25/2014 16:09	04/26/2014 01:13	04/26/2014 01:18
27	249491	\\alklsws002\instdata\GC28\Data\042414CAL.b\0424F031.D	04/25/2014 16:32	04/26/2014 01:13	04/26/2014 01:18
28	249493	\\alklsws002\instdata\GC28\Data\042414CAL.b\0424F032.D	04/25/2014 16:56	04/26/2014 01:13	04/26/2014 01:18
29	249495	\\alklsws002\instdata\GC28\Data\042414CAL.b\0424F033.D	04/25/2014 17:19	04/26/2014 01:13	04/26/2014 01:18
30	249497	\\alklsws002\instdata\GC28\Data\042414CAL.b\0424F034.D	04/25/2014 17:42	04/26/2014 01:13	04/26/2014 01:18

Parameter Name	#	RF	#	RF	#	RF	#	RF	#	RF	#	RF	Mean RF	%RSD
Tetrachloro-m-xylene	1	1.3E+5	2	1.3E+5	3	1.1E+5	4	1.1E+5	5	1.1E+5	6	1.1E+5	1.2E+5	8.2
Decachlorobiphenyl	1	1.3E+5	2	1.3E+5	3	1.1E+5	4	1.1E+5	5	1.1E+5	6	9.5E+4	1.1E+5	11.3
Aroclor 1016 {1}	1	3.0E+3	2	2.8E+3	3	2.3E+3	4	2.3E+3	5	2.1E+3	6	1.9E+3	2.4E+3	16.6
Aroclor 1016 {2}	1	6.8E+3	2	6.6E+3	3	5.6E+3	4	5.6E+3	5	5.2E+3	6	5.0E+3	5.8E+3	12.8
Aroclor 1016 {3}	1	4.5E+3	2	4.3E+3	3	3.7E+3	4	3.7E+3	5	3.4E+3	6	3.2E+3	3.8E+3	13.3
Aroclor 1016 {4}	1	3.4E+3	2	3.4E+3	3	2.8E+3	4	2.8E+3	5	2.6E+3	6	2.3E+3	2.9E+3	14.8
Aroclor 1016 {5}	1	3.3E+3	2	3.3E+3	3	2.8E+3	4	2.8E+3	5	2.6E+3	6	2.4E+3	2.9E+3	12.7
Aroclor 1221 {1}	7	9.6E+2	8	9.0E+2	9	9.1E+2	10	7.9E+2	11	7.6E+2	12	6.9E+2	8.3E+2	12.7
Aroclor 1221 {2}	7	1.1E+3	8	9.2E+2	9	8.9E+2	10	8.0E+2	11	7.7E+2	12	6.7E+2	8.6E+2	17.7
Aroclor 1221 {3}	7	3.8E+3	8	3.5E+3	9	3.0E+3	10	2.8E+3	11	2.6E+3	12	2.4E+3	3.0E+3	17.9
Aroclor 1232 {1}	13	3.5E+3	14	3.3E+3	15	2.8E+3	16	2.7E+3	17	2.4E+3	18	2.2E+3	2.8E+3	17.4
Aroclor 1232 {2}	13	1.2E+3	14	1.0E+3	15	9.3E+2	16	8.9E+2	17	7.8E+2	18	7.3E+2	9.3E+2	17.4
Aroclor 1232 {3}	13	1.7E+3	14	1.6E+3	15	1.4E+3	16	1.2E+3	17	1.1E+3	18	1.0E+3	1.3E+3	19.8
Aroclor 1232 {4}	13	2.5E+3	14	2.6E+3	15	2.2E+3	16	2.1E+3	17	1.9E+3	18	1.8E+3	2.2E+3	13.8
Aroclor 1232 {5}	13	2.9E+3	14	3.0E+3	15	2.7E+3	16	2.7E+3	17	2.4E+3	18	2.2E+3	2.7E+3	11.6
Aroclor 1242 {1}	19	2.2E+3	20	2.3E+3	21	2.0E+3	22	1.8E+3	23	1.7E+3	24	1.5E+3	1.9E+3	15.3
Aroclor 1242 {2}	19	2.0E+3	20	1.8E+3	21	1.6E+3	22	1.4E+3	23	1.3E+3	24	1.2E+3	1.5E+3	18.9

Initial Calibration - Detailed Report

Calibration ID:	CAL13284	**Instrument ID:**	GC28.i
Method ID:	MJ696	**Column Name:**	DB-XLB
		Calibration Fit:	AverageRF

Parameter Name	#	RF	#	RF	#	RF	#	RF	#	RF	#	RF	Mean RF	%RSD
Aroclor 1242 {3}	19	5.2E+3	20	5.3E+3	21	4.7E+3	22	4.4E+3	23	4.2E+3	24	3.8E+3	4.6E+3	13.2
Aroclor 1242 {4}	19	2.9E+3	20	2.8E+3	21	2.6E+3	22	2.4E+3	23	2.3E+3	24	2.0E+3	2.5E+3	12.4
Aroclor 1242 {5}	19	2.4E+3	20	2.4E+3	21	2.5E+3	22	2.2E+3	23	2.1E+3	24	1.9E+3	2.2E+3	9.9
Aroclor 1248 {1}	25	3.4E+3	26	3.4E+3	27	2.7E+3	28	2.7E+3	29	2.5E+3	30	2.4E+3	2.8E+3	15.7
Aroclor 1248 {2}	25	3.1E+3	26	3.3E+3	27	2.9E+3	28	2.7E+3	29	2.7E+3	30	2.4E+3	2.9E+3	11.7
Aroclor 1248 {3}	25	4.3E+3	26	4.0E+3	27	3.4E+3	28	3.2E+3	29	3.0E+3	30	2.7E+3	3.4E+3	17.7
Aroclor 1248 {4}	25	3.2E+3	26	3.2E+3	27	2.8E+3	28	2.8E+3	29	2.6E+3	30	2.4E+3	2.8E+3	10.4
Aroclor 1248 {5}	25	5.7E+3	26	5.3E+3	27	4.5E+3	28	4.4E+3	29	4.2E+3	30	4.0E+3	4.7E+3	14.4
Aroclor 1254 {1}	7	6.1E+3	8	5.6E+3	9	5.2E+3	10	4.7E+3	11	4.6E+3	12	4.1E+3	5.1E+3	14.6
Aroclor 1254 {2}	7	3.0E+3	8	2.8E+3	9	2.6E+3	10	2.4E+3	11	2.3E+3	12	2.2E+3	2.6E+3	11.6
Aroclor 1254 {3}	7	1.0E+4	8	8.9E+3	9	8.1E+3	10	7.2E+3	11	7.1E+3	12	6.5E+3	8.0E+3	16.4
Aroclor 1254 {4}	7	3.4E+3	8	3.1E+3	9	2.8E+3	10	2.5E+3	11	2.5E+3	12	2.2E+3	2.8E+3	15.8
Aroclor 1254 {5}	7	5.0E+3	8	4.4E+3	9	4.5E+3	10	4.2E+3	11	4.2E+3	12	4.0E+3	4.4E+3	8.1
Aroclor 1260 {1}	1	8.0E+3	2	7.4E+3	3	6.2E+3	4	6.1E+3	5	5.7E+3	6	5.2E+3	6.4E+3	16.4
Aroclor 1260 {2}	1	5.0E+3	2	5.3E+3	3	4.7E+3	4	4.6E+3	5	4.4E+3	6	4.0E+3	4.7E+3	9.6
Aroclor 1260 {3}	1	6.0E+3	2	5.7E+3	3	4.9E+3	4	4.9E+3	5	4.7E+3	6	4.3E+3	5.1E+3	12.4
Aroclor 1260 {4}	1	1.3E+4	2	1.2E+4	3	1.1E+4	4	1.1E+4	5	1.1E+4	6	1.0E+4	1.2E+4	10.3
Aroclor 1260 {5}	1	8.4E+3	2	8.0E+3	3	7.4E+3	4	7.4E+3	5	7.2E+3	6	6.6E+3	7.5E+3	8.6
Aroclor 1262 {1}	13	8.9E+3	14	8.9E+3	15	8.0E+3	16	8.1E+3	17	7.3E+3	18	6.9E+3	8.0E+3	10.5
Aroclor 1262 {2}	13	7.5E+3	14	7.2E+3	15	6.4E+3	16	6.5E+3	17	5.8E+3	18	5.4E+3	6.5E+3	12.4
Aroclor 1262 {3}	13	1.6E+4	14	1.5E+4	15	1.4E+4	16	1.4E+4	17	1.3E+4	18	1.3E+4	1.4E+4	9.2
Aroclor 1262 {4}	13	1.1E+4	14	1.1E+4	15	9.9E+3	16	1.0E+4	17	9.0E+3	18	8.4E+3	9.8E+3	9.9
Aroclor 1262 {5}	13	6.1E+3	14	5.8E+3	15	5.4E+3	16	5.5E+3	17	4.9E+3	18	4.6E+3	5.4E+3	10.5
Aroclor 1268 {1}	19	2.1E+4	20	2.0E+4	21	1.9E+4	22	1.7E+4	23	1.7E+4	24	1.6E+4	1.8E+4	11.1
Aroclor 1268 {2}	19	1.8E+4	20	1.8E+4	21	1.7E+4	22	1.5E+4	23	1.5E+4	24	1.4E+4	1.6E+4	9.7
Aroclor 1268 {3}	19	1.5E+4	20	1.5E+4	21	1.5E+4	22	1.3E+4	23	1.3E+4	24	1.2E+4	1.4E+4	9.4
Aroclor 1268 {4}	19	4.8E+4	20	4.9E+4	21	4.5E+4	22	4.1E+4	23	4.1E+4	24	4.0E+4	4.4E+4	9.1

Initial Calibration - Detailed Report

Calibration ID:	CAL13284	**Instrument ID:**	GC28.i
Method ID:	MJ696	**Column Name:**	DB-XLB

#	FileID	File Location	Acquisition Date	Quantitation Date	Last Updated
1	249439	\\alklsws002\instdata\GC28\Data\042414CAL.b\0424F005.D	04/25/2014 06:34	04/26/2014 01:13	04/26/2014 01:18
2	249441	\\alklsws002\instdata\GC28\Data\042414CAL.b\0424F006.D	04/25/2014 06:57	04/26/2014 01:13	04/26/2014 01:18
3	249443	\\alklsws002\instdata\GC28\Data\042414CAL.b\0424F007.D	04/25/2014 07:19	04/26/2014 01:13	04/26/2014 01:18
4	249445	\\alklsws002\instdata\GC28\Data\042414CAL.b\0424F008.D	04/25/2014 07:42	04/26/2014 01:13	04/26/2014 01:18
5	249447	\\alklsws002\instdata\GC28\Data\042414CAL.b\0424F009.D	04/25/2014 08:05	04/26/2014 01:13	04/26/2014 01:18
6	249449	\\alklsws002\instdata\GC28\Data\042414CAL.b\0424F010.D	04/25/2014 08:28	04/26/2014 01:13	04/26/2014 01:18
7	249451	\\alklsws002\instdata\GC28\Data\042414CAL.b\0424F011.D	04/25/2014 08:51	04/26/2014 01:13	04/26/2014 01:18
8	249453	\\alklsws002\instdata\GC28\Data\042414CAL.b\0424F012.D	04/25/2014 09:14	04/26/2014 01:13	04/26/2014 01:18
9	249455	\\alklsws002\instdata\GC28\Data\042414CAL.b\0424F013.D	04/25/2014 09:37	04/26/2014 01:13	04/26/2014 01:18
10	249457	\\alklsws002\instdata\GC28\Data\042414CAL.b\0424F014.D	04/25/2014 10:00	04/26/2014 01:13	04/26/2014 01:18
11	249459	\\alklsws002\instdata\GC28\Data\042414CAL.b\0424F015.D	04/25/2014 10:23	04/26/2014 01:13	04/26/2014 01:18
12	249461	\\alklsws002\instdata\GC28\Data\042414CAL.b\0424F016.D	04/25/2014 10:46	04/26/2014 01:13	04/26/2014 01:18
13	249463	\\alklsws002\instdata\GC28\Data\042414CAL.b\0424F017.D	04/25/2014 11:09	04/26/2014 01:13	04/26/2014 01:18
14	249465	\\alklsws002\instdata\GC28\Data\042414CAL.b\0424F018.D	04/25/2014 11:32	04/26/2014 01:13	04/26/2014 01:18
15	249467	\\alklsws002\instdata\GC28\Data\042414CAL.b\0424F019.D	04/25/2014 11:55	04/26/2014 01:13	04/26/2014 01:18
16	249469	\\alklsws002\instdata\GC28\Data\042414CAL.b\0424F020.D	04/25/2014 12:18	04/26/2014 01:13	04/26/2014 01:18
17	249471	\\alklsws002\instdata\GC28\Data\042414CAL.b\0424F021.D	04/25/2014 12:41	04/26/2014 01:13	04/26/2014 01:18
18	249473	\\alklsws002\instdata\GC28\Data\042414CAL.b\0424F022.D	04/25/2014 13:05	04/26/2014 01:13	04/26/2014 01:18
19	249475	\\alklsws002\instdata\GC28\Data\042414CAL.b\0424F023.D	04/25/2014 13:28	04/26/2014 01:13	04/26/2014 01:18
20	249477	\\alklsws002\instdata\GC28\Data\042414CAL.b\0424F024.D	04/25/2014 13:51	04/26/2014 01:13	04/26/2014 01:18
21	249479	\\alklsws002\instdata\GC28\Data\042414CAL.b\0424F025.D	04/25/2014 14:14	04/26/2014 01:13	04/26/2014 01:18
22	249481	\\alklsws002\instdata\GC28\Data\042414CAL.b\0424F026.D	04/25/2014 14:37	04/26/2014 01:13	04/26/2014 01:18
23	249483	\\alklsws002\instdata\GC28\Data\042414CAL.b\0424F027.D	04/25/2014 15:00	04/26/2014 01:13	04/26/2014 01:18
24	249485	\\alklsws002\instdata\GC28\Data\042414CAL.b\0424F028.D	04/25/2014 15:23	04/26/2014 01:13	04/26/2014 01:18
25	249487	\\alklsws002\instdata\GC28\Data\042414CAL.b\0424F029.D	04/25/2014 15:46	04/26/2014 01:13	04/26/2014 01:18
26	249489	\\alklsws002\instdata\GC28\Data\042414CAL.b\0424F030.D	04/25/2014 16:09	04/26/2014 01:13	04/26/2014 01:18
27	249491	\\alklsws002\instdata\GC28\Data\042414CAL.b\0424F031.D	04/25/2014 16:32	04/26/2014 01:13	04/26/2014 01:18
28	249493	\\alklsws002\instdata\GC28\Data\042414CAL.b\0424F032.D	04/25/2014 16:56	04/26/2014 01:13	04/26/2014 01:18
29	249495	\\alklsws002\instdata\GC28\Data\042414CAL.b\0424F033.D	04/25/2014 17:19	04/26/2014 01:13	04/26/2014 01:18
30	249497	\\alklsws002\instdata\GC28\Data\042414CAL.b\0424F034.D	04/25/2014 17:42	04/26/2014 01:13	04/26/2014 01:18

Parameter Name	#	Cal Amt	Calc Conc	% D	#	Cal Amt	Calc Conc	% D	#	Cal Amt	Calc Conc	% D
Tetrachloro-m-xylene	1	2.5	2.796	11.8	2	5	5.424	8.5	3	50	46.02	-8.0
	4	100	98.06	-1.9	5	200	188.6	-5.7	6	500	476.4	-4.7
Decachlorobiphenyl	1	2.5	2.846	13.8	2	5	5.579	11.6	3	50	49.67	-0.7
	4	100	97.57	-2.4	5	200	188.0	-6.0	6	500	418.4	-16.3
Aroclor 1016 {1}	1	25	30.80	23.2	2	50	57.80	15.6	3	500	485.9	-2.8
	4	1000	971.6	-2.8	5	2000	1738	-13.1	6	5000	4000	-20.0
Aroclor 1016 {2}	1	25	29.26	17.0	2	50	57.08	14.2	3	500	482.9	-3.4
	4	1000	964.9	-3.5	5	2000	1788	-10.6	6	5000	4316	-13.7
Aroclor 1016 {3}	1	25	29.56	18.2	2	50	56.31	12.6	3	500	492.0	-1.6
	4	1000	978.6	-2.1	5	2000	1781	-10.9	6	5000	4192	-16.2
Aroclor 1016 {4}	1	25	29.40	17.6	2	50	58.44	16.9	3	500	492.3	-1.5
	4	1000	973.6	-2.6	5	2000	1775	-11.2	6	5000	4047	-19.1
Aroclor 1016 {5}	1	25	28.58	14.3	2	50	57.36	14.7	3	500	495.4	-0.9
	4	1000	983.8	-1.6	5	2000	1805	-9.7	6	5000	4162	-16.8
Aroclor 1221 {1}	7	50	57.80	15.6	8	100	107.8	7.8	9	1000	1088	8.8
	10	2000	1887	-5.7	11	4000	3644	-8.9	12	10000	8242	-17.6

Initial Calibration - Detailed Report

Calibration ID: CAL13284 **Instrument ID:** GC28.i
Method ID: MJ696 **Column Name:** DB-XLB

Parameter Name	#	Cal Amt	Calc Conc	% D	#	Cal Amt	Calc Conc	% D	#	Cal Amt	Calc Conc	% D
Aroclor 1221 {2}	7	50	64.63	29.3	8	100	107.2	7.2	9	1000	1031	3.1
	10	2000	1869	-6.5	11	4000	3562	-11.0	12	10000	7790	-22.1*
Aroclor 1221 {3}	7	50	62.97	25.9	8	100	116.1	16.1	9	1000	1003	0.3
	10	2000	1822	-8.9	11	4000	3502	-12.5	12	10000	7907	-20.9*
Aroclor 1232 {1}	13	25	30.50	22.0	14	50	59.06	18.1	15	500	503.5	0.7
	16	1000	958.0	-4.2	17	2000	1695	-15.3	18	5000	3933	-21.3*''
Aroclor 1232 {2}	13	25	31.53	26.1	14	50	56.43	12.9	15	500	503.4	0.7
	16	1000	960.9	-3.9	17	2000	1697	-15.2	18	5000	3971	-20.6*''
Aroclor 1232 {3}	13	25	30.95	23.8	14	50	60.13	20.3*	15	500	526.3	5.3
	16	1000	929.3	-7.1	17	2000	1601	-20.0	18	5000	3885	-22.3*''
Aroclor 1232 {4}	13	25	28.49	13.9	14	50	58.96	17.9	15	500	498.4	-0.3
	16	1000	978.3	-2.2	17	2000	1740	-13.0	18	5000	4181	-16.4
Aroclor 1232 {5}	13	25	27.37	9.5	14	50	57.01	14.0	15	500	513.6	2.7
	16	1000	1003	0.3	17	2000	1803	-9.8	18	5000	4165	-16.7
Aroclor 1242 {1}	19	25	28.60	14.4	20	50	59.06	18.1	21	500	523.0	4.6
	22	1000	951.8	-4.8	23	2000	1790	-10.5	24	5000	3910	-21.8*
Aroclor 1242 {2}	19	25	31.87	27.5	20	50	57.53	15.1	21	500	510.3	2.1
	22	1000	924.2	-7.6	23	2000	1743	-12.9	24	5000	3792	-24.2*
Aroclor 1242 {3}	19	25	28.50	14.0	20	50	57.66	15.3	21	500	512.3	2.5
	22	1000	950.7	-4.9	23	2000	1826	-8.7	24	5000	4092	-18.2
Aroclor 1242 {4}	19	25	28.58	14.3	20	50	55.80	11.6	21	500	522.0	4.4
	22	1000	960.8	-3.9	23	2000	1834	-8.3	24	5000	4093	-18.1
Aroclor 1242 {5}	19	25	27.18	8.7	20	50	52.83	5.7	21	500	547.8	9.6
	22	1000	973.0	-2.7	23	2000	1900	-5.0	24	5000	4189	-16.2
Aroclor 1248 {1}	25	25	29.91	19.7	26	50	59.55	19.1	27	500	483.1	-3.4
	28	1000	939.1	-6.1	29	2000	1735	-13.3	30	5000	4200	-16.0
Aroclor 1248 {2}	25	25	27.47	9.9	26	50	57.43	14.9	27	500	515.7	3.1
	28	1000	960.2	-4.0	29	2000	1862	-6.9	30	5000	4151	-17.0
Aroclor 1248 {3}	25	25	31.19	24.7	26	50	58.79	17.6	27	500	489.8	-2.0
	28	1000	932.0	-6.8	29	2000	1740	-13.0	30	5000	3977	-20.5*
Aroclor 1248 {4}	25	25	28.06	12.2	26	50	55.79	11.6	27	500	495.5	-0.9
	28	1000	987.6	-1.2	29	2000	1845	-7.7	30	5000	4302	-14.0
Aroclor 1248 {5}	25	25	30.44	21.8	26	50	56.58	13.2	27	500	483.0	-3.4
	28	1000	944.0	-5.6	29	2000	1790	-10.5	30	5000	4228	-15.4
Aroclor 1254 {1}	7	25	30.36	21.4	8	50	55.38	10.8	9	500	512.4	2.5
	10	1000	931.9	-6.8	11	2000	1817	-9.1	12	5000	4064	-18.7
Aroclor 1254 {2}	7	25	28.90	15.6	8	50	55.34	10.7	9	500	515.0	3.0
	10	1000	934.3	-6.6	11	2000	1821	-9.0	12	5000	4313	-13.7
Aroclor 1254 {3}	7	25	31.47	25.9	8	50	55.71	11.4	9	500	507.2	1.4
	10	1000	909.6	-9.0	11	2000	1777	-11.2	12	5000	4075	-18.5
Aroclor 1254 {4}	7	25	31.09	24.3	8	50	55.53	11.1	9	500	510.0	2.0
	10	1000	913.4	-8.7	11	2000	1801	-10.0	12	5000	4061	-18.8
Aroclor 1254 {5}	7	25	28.49	14.0	8	50	50.39	0.8	9	500	512.6	2.5
	10	1000	957.1	-4.3	11	2000	1934	-3.3	12	5000	4515	-9.7
Aroclor 1260 {1}	1	25	31.17	24.7	2	50	57.25	14.5	3	500	482.9	-3.4
	4	1000	940.9	-5.9	5	2000	1778	-11.1	6	5000	4062	-18.8
Aroclor 1260 {2}	1	25	26.58	6.3	2	50	56.75	13.5	3	500	502.7	0.5
	4	1000	992.3	-0.8	5	2000	1896	-5.2	6	5000	4282	-14.4

*Aroclor 1221 @ 50ppb average %D = 16.6 < 20 *' Aroclor 1221 @ 10000 ppb average %D = -20.2 > -20
*'' Aroclor 1232 @ 5000 ppb average %D = -19.5 > -20 *'' Aroclor 1242 @ 5000 ppb average %D = -19.7 > -20
*'' Aroclor 1248 @ 5000 ppb average %D = -16.6 > -20

Initial Calibration - Detailed Report

Calibration ID: CAL13284
Method ID: MJ696
Instrument ID: GC28.i
Column Name: DB-XLB

Parameter Name	#	Cal Amt	Calc Conc	% D	#	Cal Amt	Calc Conc	% D	#	Cal Amt	Calc Conc	% D
Aroclor 1260 {3}	1	25	29.60	18.4	2	50	55.53	11.1	3	500	484.1	-3.2
	4	1000	961.6	-3.8	5	2000	1858	-7.1	6	5000	4233	-15.3
Aroclor 1260 {4}	1	25	29.12	16.5	2	50	54.00	8.0	3	500	483.0	-3.4
	4	1000	962.4	-3.8	5	2000	1893	-5.4	6	5000	4404	-11.9
Aroclor 1260 {5}	1	25	28.04	12.2	2	50	53.50	7.0	3	500	493.2	-1.4
	4	1000	983.2	-1.7	5	2000	1928	-3.6	6	5000	4375	-12.5
Aroclor 1262 {1}	13	25	27.85	11.4	14	50	55.64	11.3	15	500	499.1	-0.2
	16	1000	1009	0.9	17	2000	1820	-9.0	18	5000	4279	-14.4
Aroclor 1262 {2}	13	25	29.15	16.6	14	50	55.56	11.1	15	500	492.9	-1.4
	16	1000	1005	0.5	17	2000	1783	-10.8	18	5000	4202	-16.0
Aroclor 1262 {3}	13	25	27.93	11.7	14	50	54.19	8.4	15	500	493.4	-1.3
	16	1000	1016	1.6	17	2000	1826	-8.7	18	5000	4417	-11.7
Aroclor 1262 {4}	13	25	26.98	7.9	14	50	55.70	11.4	15	500	503.4	0.7
	16	1000	1033	3.3	17	2000	1820	-9.0	18	5000	4283	-14.3
Aroclor 1262 {5}	13	25	28.30	13.2	14	50	54.03	8.1	15	500	499.0	-0.2
	16	1000	1030	3.0	17	2000	1812	-9.4	18	5000	4268	-14.6
Aroclor 1268 {1}	19	25	28.31	13.2	20	50	55.31	10.6	21	500	525.1	5.0
	22	1000	940.6	-5.9	23	2000	1813	-9.4	24	5000	4322	-13.6
Aroclor 1268 {2}	19	25	27.62	10.5	20	50	54.64	9.3	21	500	528.8	5.8
	22	1000	950.9	-4.9	23	2000	1832	-8.4	24	5000	4390	-12.2
Aroclor 1268 {3}	19	25	27.10	8.4	20	50	55.02	10.0	21	500	531.6	6.3
	22	1000	954.5	-4.6	23	2000	1839	-8.1	24	5000	4392	-12.2
Aroclor 1268 {4}	19	25	27.50	10.0	20	50	55.17	10.3	21	500	516.1	3.2
	22	1000	941.0	-5.9	23	2000	1845	-7.8	24	5000	4504	-9.9

Initial Calibration - Detailed Report

Calibration ID:	CAL13284	**Instrument ID:**	GC28.i
Method ID:	MJ696	**Column Name:**	DB-35MS
		Calibration Fit:	AverageRF

#	FileID	File Location	Acquisition Date	Quantitation Date	Last Updated
1	249440	\\alklsws002\instdata\GC28\Data\042414CAL_r.b\0424F005.D	04/25/2014 06:34	04/26/2014 01:14	04/26/2014 01:18
2	249442	\\alklsws002\instdata\GC28\Data\042414CAL_r.b\0424F006.D	04/25/2014 06:57	04/26/2014 01:14	04/26/2014 01:18
3	249444	\\alklsws002\instdata\GC28\Data\042414CAL_r.b\0424F007.D	04/25/2014 07:19	04/26/2014 01:14	04/26/2014 01:18
4	249446	\\alklsws002\instdata\GC28\Data\042414CAL_r.b\0424F008.D	04/25/2014 07:42	04/26/2014 01:14	04/26/2014 01:18
5	249448	\\alklsws002\instdata\GC28\Data\042414CAL_r.b\0424F009.D	04/25/2014 08:05	04/26/2014 01:14	04/26/2014 01:18
6	249450	\\alklsws002\instdata\GC28\Data\042414CAL_r.b\0424F010.D	04/25/2014 08:28	04/26/2014 01:14	04/26/2014 01:18
7	249452	\\alklsws002\instdata\GC28\Data\042414CAL_r.b\0424F011.D	04/25/2014 08:51	04/26/2014 01:14	04/26/2014 01:18
8	249454	\\alklsws002\instdata\GC28\Data\042414CAL_r.b\0424F012.D	04/25/2014 09:14	04/26/2014 01:14	04/26/2014 01:18
9	249456	\\alklsws002\instdata\GC28\Data\042414CAL_r.b\0424F013.D	04/25/2014 09:37	04/26/2014 01:14	04/26/2014 01:18
10	249458	\\alklsws002\instdata\GC28\Data\042414CAL_r.b\0424F014.D	04/25/2014 10:00	04/26/2014 01:14	04/26/2014 01:18
11	249460	\\alklsws002\instdata\GC28\Data\042414CAL_r.b\0424F015.D	04/25/2014 10:23	04/26/2014 01:14	04/26/2014 01:18
12	249462	\\alklsws002\instdata\GC28\Data\042414CAL_r.b\0424F016.D	04/25/2014 10:46	04/26/2014 01:14	04/26/2014 01:18
13	249464	\\alklsws002\instdata\GC28\Data\042414CAL_r.b\0424F017.D	04/25/2014 11:09	04/26/2014 01:14	04/26/2014 01:18
14	249466	\\alklsws002\instdata\GC28\Data\042414CAL_r.b\0424F018.D	04/25/2014 11:32	04/26/2014 01:14	04/26/2014 01:18
15	249468	\\alklsws002\instdata\GC28\Data\042414CAL_r.b\0424F019.D	04/25/2014 11:55	04/26/2014 01:14	04/26/2014 01:18
16	249470	\\alklsws002\instdata\GC28\Data\042414CAL_r.b\0424F020.D	04/25/2014 12:18	04/26/2014 01:14	04/26/2014 01:18
17	249472	\\alklsws002\instdata\GC28\Data\042414CAL_r.b\0424F021.D	04/25/2014 12:41	04/26/2014 01:14	04/26/2014 01:18
18	249474	\\alklsws002\instdata\GC28\Data\042414CAL_r.b\0424F022.D	04/25/2014 13:05	04/26/2014 01:14	04/26/2014 01:18
19	249476	\\alklsws002\instdata\GC28\Data\042414CAL_r.b\0424F023.D	04/25/2014 13:28	04/26/2014 01:14	04/26/2014 01:18
20	249478	\\alklsws002\instdata\GC28\Data\042414CAL_r.b\0424F024.D	04/25/2014 13:51	04/26/2014 01:14	04/26/2014 01:18
21	249480	\\alklsws002\instdata\GC28\Data\042414CAL_r.b\0424F025.D	04/25/2014 14:14	04/26/2014 01:14	04/26/2014 01:18
22	249482	\\alklsws002\instdata\GC28\Data\042414CAL_r.b\0424F026.D	04/25/2014 14:37	04/26/2014 01:14	04/26/2014 01:18
23	249484	\\alklsws002\instdata\GC28\Data\042414CAL_r.b\0424F027.D	04/25/2014 15:00	04/26/2014 01:14	04/26/2014 01:18
24	249486	\\alklsws002\instdata\GC28\Data\042414CAL_r.b\0424F028.D	04/25/2014 15:23	04/26/2014 01:14	04/26/2014 01:18
25	249488	\\alklsws002\instdata\GC28\Data\042414CAL_r.b\0424F029.D	04/25/2014 15:46	04/26/2014 01:14	04/26/2014 01:18
26	249490	\\alklsws002\instdata\GC28\Data\042414CAL_r.b\0424F030.D	04/25/2014 16:09	04/26/2014 01:14	04/26/2014 01:18
27	249492	\\alklsws002\instdata\GC28\Data\042414CAL_r.b\0424F031.D	04/25/2014 16:32	04/26/2014 01:14	04/26/2014 01:18
28	249494	\\alklsws002\instdata\GC28\Data\042414CAL_r.b\0424F032.D	04/25/2014 16:56	04/26/2014 01:14	04/26/2014 01:18
29	249496	\\alklsws002\instdata\GC28\Data\042414CAL_r.b\0424F033.D	04/25/2014 17:19	04/26/2014 01:14	04/26/2014 01:18
30	249498	\\alklsws002\instdata\GC28\Data\042414CAL_r.b\0424F034.D	04/25/2014 17:42	04/26/2014 01:14	04/26/2014 01:18

Parameter Name	#	RF	#	RF	#	RF	#	RF	#	RF	#	RF	Mean RF	%RSD
Tetrachloro-m-xylene	1	5.7E+5	2	5.6E+5	3	5.8E+5	4	6.4E+5	5	6.3E+5	6	6.5E+5	6.0E+5	6.9
Decachlorobiphenyl	1	8.5E+5	2	8.2E+5	3	6.7E+5	4	6.7E+5	5	6.4E+5	6	5.9E+5	7.1E+5	14.8
Aroclor 1016 {1}	1	1.2E+4	2	1.1E+4	3	9.2E+3	4	9.5E+3	5	8.5E+3	6	8.5E+3	9.7E+3	13.8
Aroclor 1016 {2}	1	3.5E+4	2	3.2E+4	3	3.0E+4	4	3.4E+4	5	3.0E+4	6	2.9E+4	3.2E+4	7.6
Aroclor 1016 {3}	1	2.5E+4	2	2.4E+4	3	2.0E+4	4	2.1E+4	5	1.9E+4	6	1.9E+4	2.1E+4	12.2
Aroclor 1016 {4}	1	2.0E+4	2	2.0E+4	3	1.6E+4	4	1.6E+4	5	1.4E+4	6	1.4E+4	1.7E+4	15.4
Aroclor 1016 {5}	1	2.0E+4	2	1.9E+4	3	1.7E+4	4	1.7E+4	5	1.5E+4	6	1.5E+4	1.7E+4	11.1
Aroclor 1221 {1}	7	7.8E+3	8	7.0E+3	9	6.3E+3	10	6.0E+3	11	6.0E+3	12	5.6E+3	6.5E+3	12.4
Aroclor 1221 {2}	7	5.0E+3	8	4.6E+3	9	4.3E+3	10	4.0E+3	11	3.9E+3	12	3.5E+3	4.2E+3	12.6
Aroclor 1221 {3}	7	2.1E+4	8	1.8E+4	9	1.5E+4	10	1.5E+4	11	1.4E+4	12	1.4E+4	1.6E+4	17.4
Aroclor 1232 {1}	13	1.9E+4	14	1.7E+4	15	1.4E+4	16	1.3E+4	17	1.2E+4	18	1.2E+4	1.5E+4	18.5
Aroclor 1232 {2}	13	5.5E+3	14	5.4E+3	15	4.7E+3	16	4.5E+3	17	4.1E+3	18	3.9E+3	4.7E+3	14.2
Aroclor 1232 {3}	13	1.1E+4	14	1.1E+4	15	1.0E+4	16	8.9E+3	17	7.9E+3	18	8.7E+3	9.6E+3	12.6
Aroclor 1232 {4}	13	1.7E+4	14	1.6E+4	15	1.3E+4	16	1.5E+4	17	1.4E+4	18	1.3E+4	1.5E+4	10.4
Aroclor 1232 {5}	13	1.2E+4	14	1.1E+4	15	9.9E+3	16	9.6E+3	17	8.8E+3	18	8.6E+3	1.0E+4	13.1
Aroclor 1242 {1}	19	1.2E+4	20	1.1E+4	21	9.9E+3	22	9.2E+3	23	8.9E+3	24	8.1E+3	1.0E+4	16.3
Aroclor 1242 {2}	19	9.9E+3	20	8.6E+3	21	7.8E+3	22	7.4E+3	23	6.9E+3	24	6.4E+3	7.9E+3	16.1

Initial Calibration - Detailed Report

Calibration ID:	CAL13284	**Instrument ID:**	GC28.i
Method ID:	MJ696	**Column Name:**	DB-35MS
		Calibration Fit:	AverageRF

Parameter Name	#	RF	#	RF	#	RF	#	RF	#	RF	#	RF	Mean RF	%RSD
Aroclor 1242 {3}	19	2.8E+4	20	2.8E+4	21	2.5E+4	22	2.3E+4	23	2.4E+4	24	2.4E+4	2.5E+4	8.7
Aroclor 1242 {4}	19	2.0E+4	20	2.0E+4	21	1.7E+4	22	1.6E+4	23	1.6E+4	24	1.4E+4	1.7E+4	13.7
Aroclor 1242 {5}	19	1.1E+4	20	1.1E+4	21	1.0E+4	22	9.5E+3	23	9.6E+3	24	9.1E+3	1.0E+4	8.6
Aroclor 1248 {1}	25	1.7E+4	26	1.5E+4	27	1.4E+4	28	1.4E+4	29	1.3E+4	30	1.2E+4	1.4E+4	12.0
Aroclor 1248 {2}	25	1.5E+4	26	1.4E+4	27	1.3E+4	28	1.2E+4	29	1.1E+4	30	1.0E+4	1.3E+4	13.8
Aroclor 1248 {3}	25	2.2E+4	26	2.1E+4	27	1.8E+4	28	1.8E+4	29	1.7E+4	30	1.7E+4	1.9E+4	12.7
Aroclor 1248 {4}	25	1.7E+4	26	1.5E+4	27	1.4E+4	28	1.4E+4	29	1.3E+4	30	1.3E+4	1.4E+4	10.6
Aroclor 1248 {5}	25	1.4E+4	26	1.4E+4	27	1.3E+4	28	1.2E+4	29	1.2E+4	30	1.2E+4	1.3E+4	8.8
Aroclor 1254 {1}	7	1.7E+4	8	1.5E+4	9	1.4E+4	10	1.3E+4	11	1.2E+4	12	1.2E+4	1.4E+4	15.3
Aroclor 1254 {2}	7	2.7E+4	8	2.5E+4	9	2.5E+4	10	2.3E+4	11	2.4E+4	12	2.3E+4	2.4E+4	5.0
Aroclor 1254 {3}	7	5.9E+4	8	5.4E+4	9	5.1E+4	10	4.9E+4	11	4.9E+4	12	4.8E+4	5.2E+4	8.1
Aroclor 1254 {4}	7	4.0E+4	8	3.6E+4	9	3.4E+4	10	3.2E+4	11	3.2E+4	12	3.1E+4	3.4E+4	10.3
Aroclor 1254 {5}	7	2.1E+4	8	2.0E+4	9	2.1E+4	10	2.0E+4	11	2.1E+4	12	2.1E+4	2.1E+4	2.3
Aroclor 1260 {1}	1	1.8E+4	2	1.8E+4	3	1.7E+4	4	1.8E+4	5	1.7E+4	6	1.7E+4	1.8E+4	4.2
Aroclor 1260 {2}	1	3.3E+4	2	3.3E+4	3	2.8E+4	4	2.8E+4	5	2.7E+4	6	2.5E+4	2.9E+4	11.5
Aroclor 1260 {3}	1	3.3E+4	2	3.2E+4	3	2.8E+4	4	2.9E+4	5	2.8E+4	6	2.6E+4	2.9E+4	9.5
Aroclor 1260 {4}	1	7.8E+4	2	7.5E+4	3	6.8E+4	4	7.0E+4	5	6.9E+4	6	6.7E+4	7.1E+4	5.8
Aroclor 1260 {5}	1	5.9E+4	2	5.8E+4	3	5.1E+4	4	5.3E+4	5	5.2E+4	6	5.0E+4	5.4E+4	6.8
Aroclor 1262 {1}	13	5.7E+4	14	5.4E+4	15	4.6E+4	16	4.6E+4	17	4.3E+4	18	4.4E+4	4.8E+4	12.0
Aroclor 1262 {2}	13	4.7E+4	14	4.6E+4	15	4.0E+4	16	4.0E+4	17	3.7E+4	18	3.8E+4	4.1E+4	10.3
Aroclor 1262 {3}	13	9.5E+4	14	9.0E+4	15	8.2E+4	16	8.6E+4	17	8.1E+4	18	8.5E+4	8.7E+4	6.3
Aroclor 1262 {4}	13	7.3E+4	14	7.1E+4	15	6.4E+4	16	6.5E+4	17	6.0E+4	18	6.2E+4	6.6E+4	7.9
Aroclor 1262 {5}	13	3.6E+4	14	3.5E+4	15	3.2E+4	16	3.2E+4	17	3.0E+4	18	3.0E+4	3.2E+4	7.2
Aroclor 1268 {1}	19	1.3E+5	20	1.3E+5	21	1.2E+5	22	1.1E+5	23	1.1E+5	24	1.0E+5	1.2E+5	10.0
Aroclor 1268 {2}	19	1.1E+5	20	1.1E+5	21	1.1E+5	22	1.0E+5	23	9.9E+4	24	9.3E+4	1.0E+5	8.2
Aroclor 1268 {3}	19	9.9E+4	20	9.8E+4	21	9.2E+4	22	8.8E+4	23	8.6E+4	24	8.1E+4	9.1E+4	8.0
Aroclor 1268 {4}	19	3.1E+5	20	3.0E+5	21	2.8E+5	22	2.7E+5	23	2.6E+5	24	2.5E+5	2.8E+5	7.4

Initial Calibration - Detailed Report

Calibration ID:	CAL13284	**Instrument ID:**	GC28.i
Method ID:	MJ696	**Column Name:**	DB-35MS

#	FileID	File Location	Acquisition Date	Quantitation Date	Last Updated
1	249440	\\alklsws002\instdata\GC28\Data\042414CAL_r.b\0424F005.D	04/25/2014 06:34	04/26/2014 01:14	04/26/2014 01:18
2	249442	\\alklsws002\instdata\GC28\Data\042414CAL_r.b\0424F006.D	04/25/2014 06:57	04/26/2014 01:14	04/26/2014 01:18
3	249444	\\alklsws002\instdata\GC28\Data\042414CAL_r.b\0424F007.D	04/25/2014 07:19	04/26/2014 01:14	04/26/2014 01:18
4	249446	\\alklsws002\instdata\GC28\Data\042414CAL_r.b\0424F008.D	04/25/2014 07:42	04/26/2014 01:14	04/26/2014 01:18
5	249448	\\alklsws002\instdata\GC28\Data\042414CAL_r.b\0424F009.D	04/25/2014 08:05	04/26/2014 01:14	04/26/2014 01:18
6	249450	\\alklsws002\instdata\GC28\Data\042414CAL_r.b\0424F010.D	04/25/2014 08:28	04/26/2014 01:14	04/26/2014 01:18
7	249452	\\alklsws002\instdata\GC28\Data\042414CAL_r.b\0424F011.D	04/25/2014 08:51	04/26/2014 01:14	04/26/2014 01:18
8	249454	\\alklsws002\instdata\GC28\Data\042414CAL_r.b\0424F012.D	04/25/2014 09:14	04/26/2014 01:14	04/26/2014 01:18
9	249456	\\alklsws002\instdata\GC28\Data\042414CAL_r.b\0424F013.D	04/25/2014 09:37	04/26/2014 01:14	04/26/2014 01:18
10	249458	\\alklsws002\instdata\GC28\Data\042414CAL_r.b\0424F014.D	04/25/2014 10:00	04/26/2014 01:14	04/26/2014 01:18
11	249460	\\alklsws002\instdata\GC28\Data\042414CAL_r.b\0424F015.D	04/25/2014 10:23	04/26/2014 01:14	04/26/2014 01:18
12	249462	\\alklsws002\instdata\GC28\Data\042414CAL_r.b\0424F016.D	04/25/2014 10:46	04/26/2014 01:14	04/26/2014 01:18
13	249464	\\alklsws002\instdata\GC28\Data\042414CAL_r.b\0424F017.D	04/25/2014 11:09	04/26/2014 01:14	04/26/2014 01:18
14	249466	\\alklsws002\instdata\GC28\Data\042414CAL_r.b\0424F018.D	04/25/2014 11:32	04/26/2014 01:14	04/26/2014 01:18
15	249468	\\alklsws002\instdata\GC28\Data\042414CAL_r.b\0424F019.D	04/25/2014 11:55	04/26/2014 01:14	04/26/2014 01:18
16	249470	\\alklsws002\instdata\GC28\Data\042414CAL_r.b\0424F020.D	04/25/2014 12:18	04/26/2014 01:14	04/26/2014 01:18
17	249472	\\alklsws002\instdata\GC28\Data\042414CAL_r.b\0424F021.D	04/25/2014 12:41	04/26/2014 01:14	04/26/2014 01:18
18	249474	\\alklsws002\instdata\GC28\Data\042414CAL_r.b\0424F022.D	04/25/2014 13:05	04/26/2014 01:14	04/26/2014 01:18
19	249476	\\alklsws002\instdata\GC28\Data\042414CAL_r.b\0424F023.D	04/25/2014 13:28	04/26/2014 01:14	04/26/2014 01:18
20	249478	\\alklsws002\instdata\GC28\Data\042414CAL_r.b\0424F024.D	04/25/2014 13:51	04/26/2014 01:14	04/26/2014 01:18
21	249480	\\alklsws002\instdata\GC28\Data\042414CAL_r.b\0424F025.D	04/25/2014 14:14	04/26/2014 01:14	04/26/2014 01:18
22	249482	\\alklsws002\instdata\GC28\Data\042414CAL_r.b\0424F026.D	04/25/2014 14:37	04/26/2014 01:14	04/26/2014 01:18
23	249484	\\alklsws002\instdata\GC28\Data\042414CAL_r.b\0424F027.D	04/25/2014 15:00	04/26/2014 01:14	04/26/2014 01:18
24	249486	\\alklsws002\instdata\GC28\Data\042414CAL_r.b\0424F028.D	04/25/2014 15:23	04/26/2014 01:14	04/26/2014 01:18
25	249488	\\alklsws002\instdata\GC28\Data\042414CAL_r.b\0424F029.D	04/25/2014 15:46	04/26/2014 01:14	04/26/2014 01:18
26	249490	\\alklsws002\instdata\GC28\Data\042414CAL_r.b\0424F030.D	04/25/2014 16:09	04/26/2014 01:14	04/26/2014 01:18
27	249492	\\alklsws002\instdata\GC28\Data\042414CAL_r.b\0424F031.D	04/25/2014 16:32	04/26/2014 01:14	04/26/2014 01:18
28	249494	\\alklsws002\instdata\GC28\Data\042414CAL_r.b\0424F032.D	04/25/2014 16:56	04/26/2014 01:14	04/26/2014 01:18
29	249496	\\alklsws002\instdata\GC28\Data\042414CAL_r.b\0424F033.D	04/25/2014 17:19	04/26/2014 01:14	04/26/2014 01:18
30	249498	\\alklsws002\instdata\GC28\Data\042414CAL_r.b\0424F034.D	04/25/2014 17:42	04/26/2014 01:14	04/26/2014 01:18

Parameter Name	#	Cal Amt	Calc Conc	% D	#	Cal Amt	Calc Conc	% D	#	Cal Amt	Calc Conc	% D
Tetrachloro-m-xylene	1	2.5	2.340	-6.4	2	5	4.627	-7.5	3	50	47.71	-4.6
	4	100	106.2	6.2	5	200	207.5	3.8	6	500	542.1	8.4
Decachlorobiphenyl	1	2.5	3.013	20.5	2	5	5.790	15.8	3	50	47.42	-5.2
	4	100	95.16	-4.8	5	200	180.9	-9.6	6	500	416.4	-16.7
Aroclor 1016 {1}	1	25	30.08	20.3	2	50	56.51	13.0	3	500	472.2	-5.6
	4	1000	978.8	-2.1	5	2000	1741	-12.9	6	5000	4364	-12.7
Aroclor 1016 {2}	1	25	27.65	10.6	2	50	50.38	0.8	3	500	472.5	-5.5
	4	1000	1074	7.4	5	2000	1890	-5.5	6	5000	4609	-7.8
Aroclor 1016 {3}	1	25	29.26	17.0	2	50	56.62	13.2	3	500	476.3	-4.7
	4	1000	967.6	-3.2	5	2000	1791	-10.4	6	5000	4408	-11.8
Aroclor 1016 {4}	1	25	30.11	20.5	2	50	58.70	17.4	3	500	477.6	-4.5
	4	1000	959.5	-4.0	5	2000	1727	-13.7	6	5000	4216	-15.7
Aroclor 1016 {5}	1	25	28.63	14.5	2	50	56.23	12.5	3	500	483.5	-3.3
	4	1000	975.9	-2.4	5	2000	1807	-9.7	6	5000	4418	-11.6
Aroclor 1221 {1}	7	50	60.31	20.6	8	100	108.3	8.3	9	1000	980.4	-2.0
	10	2000	1874	-6.3	11	4000	3692	-7.7	12	10000	8700	-13.0

Initial Calibration - Detailed Report

Calibration ID: CAL13284 **Instrument ID:** GC28.i
Method ID: MJ696 **Column Name:** DB-35MS

Parameter Name	#	Cal Amt	Calc Conc	% D	#	Cal Amt	Calc Conc	% D	#	Cal Amt	Calc Conc	% D
Aroclor 1221 {2}	7	50	59.30	18.6	8	100	109.1	9.1	9	1000	1016	1.6
	10	2000	1911	-4.5	11	4000	3661	-8.5	12	10000	8360	-16.4
Aroclor 1221 {3}	7	50	65.25	30.5*	8	100	110.1	10.1	9	1000	956.1	-4.4
	10	2000	1820	-9.0	11	4000	3557	-11.1	12	10000	8383	-16.2
Aroclor 1232 {1}	13	25	32.61	30.4*	14	50	56.75	13.5	15	500	480.5	-3.9
	16	1000	922.3	-7.8	17	2000	1701	-14.9	18	5000	4134	-17.3
Aroclor 1232 {2}	13	25	29.55	18.2	14	50	57.36	14.7	15	500	500.7	0.1
	16	1000	962.2	-3.8	17	2000	1764	-11.8	18	5000	4126	-17.5
Aroclor 1232 {3}	13	25	27.92	11.7	14	50	56.07	12.1	15	500	546.4	9.3
	16	1000	931.5	-6.9	17	2000	1650	-17.5	18	5000	4563	-8.7
Aroclor 1232 {4}	13	25	28.69	14.7	14	50	55.53	11.1	15	500	452.9	-9.4
	16	1000	977.8	-2.2	17	2000	1901	-5.0	18	5000	4541	-9.2
Aroclor 1232 {5}	13	25	29.51	18.0	14	50	56.58	13.2	15	500	495.9	-0.8
	16	1000	957.1	-4.3	17	2000	1759	-12.0	18	5000	4298	-14.0
Aroclor 1242 {1}	19	25	31.25	25.0	20	50	56.68	13.4	21	500	496.4	-0.7
	22	1000	920.3	-8.0	23	2000	1777	-11.1	24	5000	4074	-18.5
Aroclor 1242 {2}	19	25	31.58	26.3	20	50	54.81	9.6	21	500	498.2	-0.4
	22	1000	945.5	-5.4	23	2000	1767	-11.6	24	5000	4075	-18.5
Aroclor 1242 {3}	19	25	27.64	10.6	20	50	55.54	11.1	21	500	493.1	-1.4
	22	1000	914.0	-8.6	23	2000	1894	-5.3	24	5000	4682	-6.4
Aroclor 1242 {4}	19	25	29.31	17.3	20	50	57.89	15.8	21	500	497.7	-0.5
	22	1000	927.0	-7.3	23	2000	1812	-9.4	24	5000	4206	-15.9
Aroclor 1242 {5}	19	25	27.75	11.0	20	50	54.79	9.6	21	500	499.6	-0.1
	22	1000	942.1	-5.8	23	2000	1900	-5.0	24	5000	4513	-9.7
Aroclor 1248 {1}	25	25	30.33	21.3	26	50	51.90	3.8	27	500	492.5	-1.5
	28	1000	960.4	-4.0	29	2000	1897	-5.1	30	5000	4274	-14.5
Aroclor 1248 {2}	25	25	30.47	21.9	26	50	54.28	8.6	27	500	504.6	0.9
	28	1000	950.9	-4.9	29	2000	1813	-9.4	30	5000	4146	-17.1
Aroclor 1248 {3}	25	25	29.76	19.0	26	50	56.37	12.7	27	500	474.8	-5.0
	28	1000	939.2	-6.1	29	2000	1816	-9.2	30	5000	4427	-11.5
Aroclor 1248 {4}	25	25	29.34	17.4	26	50	53.71	7.4	27	500	491.6	-1.7
	28	1000	958.7	-4.1	29	2000	1828	-8.6	30	5000	4480	-10.4
Aroclor 1248 {5}	25	25	27.88	11.5	26	50	55.32	10.6	27	500	484.1	-3.2
	28	1000	956.1	-4.4	29	2000	1867	-6.6	30	5000	4601	-8.0
Aroclor 1254 {1}	7	25	31.44	25.8	8	50	54.52	9.0	9	500	498.7	-0.3
	10	1000	916.8	-8.3	11	2000	1789	-10.5	12	5000	4215	-15.7
Aroclor 1254 {2}	7	25	27.21	8.8	8	50	50.88	1.8	9	500	502.9	0.6
	10	1000	959.4	-4.1	11	2000	1950	-2.5	12	5000	4769	-4.6
Aroclor 1254 {3}	7	25	28.62	14.5	8	50	52.14	4.3	9	500	492.0	-1.6
	10	1000	939.9	-6.0	11	2000	1911	-4.4	12	5000	4666	-6.7
Aroclor 1254 {4}	7	25	29.44	17.8	8	50	53.04	6.1	9	500	494.1	-1.2
	10	1000	930.7	-6.9	11	2000	1871	-6.4	12	5000	4534	-9.3
Aroclor 1254 {5}	7	25	25.74	3.0	8	50	48.63	-2.7	9	500	507.2	1.4
	10	1000	973.3	-2.7	11	2000	2016	0.8	12	5000	5011	0.2
Aroclor 1260 {1}	1	25	26.36	5.4	2	50	52.25	4.5	3	500	480.8	-3.8
	4	1000	1002	0.2	5	2000	1966	-1.7	6	5000	4769	-4.6
Aroclor 1260 {2}	1	25	28.81	15.2	2	50	56.46	12.9	3	500	481.5	-3.7
	4	1000	967.8	-3.2	5	2000	1837	-8.1	6	5000	4345	-13.1

* Aroclor 1221 @50ppb average %D = 23.2 < 30 *' Aroclor 1232 @25ppb average %D = 18.6 < 30

Initial Calibration - Detailed Report

Calibration ID: CAL13284
Method ID: MJ696
Instrument ID: GC28.i
Column Name: DB-35MS

Parameter Name	#	Cal Amt	Calc Conc	% D	#	Cal Amt	Calc Conc	% D	#	Cal Amt	Calc Conc	% D
Aroclor 1260 {3}	1	25	28.38	13.5	2	50	54.94	9.9	3	500	480.8	-3.8
	4	1000	972.7	-2.7	5	2000	1880	-6.0	6	5000	4459	-10.8
Aroclor 1260 {4}	1	25	27.29	9.2	2	50	52.50	5.0	3	500	474.6	-5.1
	4	1000	987.7	-1.2	5	2000	1950	-2.5	6	5000	4734	-5.3
Aroclor 1260 {5}	1	25	27.37	9.5	2	50	53.65	7.3	3	500	478.5	-4.3
	4	1000	986.7	-1.3	5	2000	1929	-3.6	6	5000	4620	-7.6
Aroclor 1262 {1}	13	25	29.29	17.2	14	50	56.28	12.6	15	500	476.7	-4.7
	16	1000	960.6	-3.9	17	2000	1771	-11.4	18	5000	4515	-9.7
Aroclor 1262 {2}	13	25	28.53	14.1	14	50	55.70	11.4	15	500	481.3	-3.7
	16	1000	969.4	-3.1	17	2000	1793	-10.3	18	5000	4581	-8.4
Aroclor 1262 {3}	13	25	27.57	10.3	14	50	52.24	4.5	15	500	476.0	-4.8
	16	1000	991.6	-0.8	17	2000	1864	-6.8	18	5000	4884	-2.3
Aroclor 1262 {4}	13	25	27.86	11.5	14	50	53.81	7.6	15	500	484.3	-3.1
	16	1000	983.6	-1.6	17	2000	1827	-8.6	18	5000	4717	-5.7
Aroclor 1262 {5}	13	25	27.43	9.7	14	50	53.65	7.3	15	500	490.7	-1.9
	16	1000	996.4	-0.4	17	2000	1837	-8.1	18	5000	4666	-6.7
Aroclor 1268 {1}	19	25	28.18	12.7	20	50	55.29	10.6	21	500	503.5	0.7
	22	1000	954.3	-4.6	23	2000	1861	-7.0	24	5000	4376	-12.5
Aroclor 1268 {2}	19	25	27.42	9.7	20	50	54.37	8.7	21	500	507.7	1.5
	22	1000	965.7	-3.4	23	2000	1888	-5.6	24	5000	4452	-11.0
Aroclor 1268 {3}	19	25	27.35	9.4	20	50	54.23	8.5	21	500	508.9	1.8
	22	1000	967.8	-3.2	23	2000	1890	-5.5	24	5000	4454	-10.9
Aroclor 1268 {4}	19	25	27.46	9.9	20	50	53.46	6.9	21	500	505.2	1.0
	22	1000	968.2	-3.2	23	2000	1901	-4.9	24	5000	4516	-9.7

Second Source Calibration Verification Summary

CalibrationID: CAL13284

Method ID: MJ696

DataFile Location: \\ALKLSWS002\INSTDATA\GC28\DATA\042414CAL.B\0424F(

Units: ppb

Column: DB-XLB

Parameter Name	File ID	Curve Fit	Method Criteria	AveRF	SSV RF	% Diff	True Value	Sol'n Conc	% Drift
Aroclor 1016	249499	NA	20				1000.00	936.3	-6.4
Aroclor 1016 {1}	249499	AverageRF	100	2.4E+3	2.2E+3	-6.7	1000.00	933.5	
Aroclor 1016 {2}	249499	AverageRF	100	5.8E+3	5.3E+3	-8.2	1000.00	917.9	
Aroclor 1016 {3}	249499	AverageRF	100	3.8E+3	3.6E+3	-6.5	1000.00	934.9	
Aroclor 1016 {4}	249499	AverageRF	100	2.9E+3	2.7E+3	-6.7	1000.00	932.8	
Aroclor 1016 {5}	249499	AverageRF	100	2.9E+3	2.7E+3	-3.8	1000.00	962.3	
Aroclor 1221	249501	NA	20				1000.00	1047.5	4.8
Aroclor 1221 {1}	249501	AverageRF	100	8.3E+2	8.8E+2	5.5	1000.00	1054.6	
Aroclor 1221 {2}	249501	AverageRF	100	8.6E+2	9.0E+2	5.1	1000.00	1051.3	
Aroclor 1221 {3}	249501	AverageRF	100	3.0E+3	3.1E+3	3.7	1000.00	1036.7	
Aroclor 1232	249503	NA	20				1000.00	886.3	-11.4
Aroclor 1232 {1}	249503	AverageRF	100	2.8E+3	2.4E+3	-16.3	1000.00	837.0	
Aroclor 1232 {2}	249503	AverageRF	100	9.3E+2	8.1E+2	-12.7	1000.00	873.1	
Aroclor 1232 {3}	249503	AverageRF	100	1.3E+3	1.2E+3	-12.3	1000.00	876.9	
Aroclor 1232 {4}	249503	AverageRF	100	2.2E+3	2.0E+3	-7.3	1000.00	926.8	
Aroclor 1232 {5}	249503	AverageRF	100	2.7E+3	2.4E+3	-8.2	1000.00	917.7	
Aroclor 1242	249505	NA	20				1000.00	913.1	-8.7
Aroclor 1242 {1}	249505	AverageRF	100	1.9E+3	1.8E+3	-8.4	1000.00	915.8	
Aroclor 1242 {2}	249505	AverageRF	100	1.5E+3	1.4E+3	-11.8	1000.00	881.9	
Aroclor 1242 {3}	249505	AverageRF	100	4.6E+3	4.2E+3	-8.9	1000.00	911.4	
Aroclor 1242 {4}	249505	AverageRF	100	2.5E+3	2.3E+3	-7.9	1000.00	920.7	
Aroclor 1242 {5}	249505	AverageRF	100	2.2E+3	2.1E+3	-6.4	1000.00	935.8	
Aroclor 1248	249507	NA	20				1000.00	923.4	-7.7
Aroclor 1248 {1}	249507	AverageRF	100	2.8E+3	2.7E+3	-6.6	1000.00	934.5	
Aroclor 1248 {2}	249507	AverageRF	100	2.9E+3	2.8E+3	-2.4	1000.00	976.2	
Aroclor 1248 {3}	249507	AverageRF	100	3.4E+3	3.1E+3	-10.2	1000.00	898.2	
Aroclor 1248 {4}	249507	AverageRF	100	2.8E+3	2.7E+3	-6.4	1000.00	936.0	
Aroclor 1248 {5}	249507	AverageRF	100	4.7E+3	4.1E+3	-12.8	1000.00	872.1	
Aroclor 1254	249509	NA	20				1000.00	932.4	-6.8
Aroclor 1254 {1}	249509	AverageRF	100	5.1E+3	4.7E+3	-8.1	1000.00	919.4	
Aroclor 1254 {2}	249509	AverageRF	100	2.6E+3	2.3E+3	-9.0	1000.00	910.1	
Aroclor 1254 {3}	249509	AverageRF	100	8.0E+3	7.4E+3	-7.7	1000.00	923.4	
Aroclor 1254 {4}	249509	AverageRF	100	2.8E+3	2.6E+3	-6.5	1000.00	934.5	
Aroclor 1254 {5}	249509	AverageRF	100	4.4E+3	4.3E+3	-2.5	1000.00	974.6	
Aroclor 1260	249511	NA	20				1000.00	1072.8	7.3
Aroclor 1260 {1}	249511	AverageRF	100	6.4E+3	6.0E+3	-6.3	1000.00	937.3	
Aroclor 1260 {2}	249511	AverageRF	100	4.7E+3	5.5E+3	17.5	1000.00	1174.9	
Aroclor 1260 {3}	249511	AverageRF	100	5.1E+3	5.5E+3	8.1	1000.00	1080.6	
Aroclor 1260 {4}	249511	AverageRF	100	1.2E+4	1.3E+4	9.5	1000.00	1094.9	
Aroclor 1260 {5}	249511	AverageRF	100	7.5E+3	8.1E+3	7.6	1000.00	1076.3	
Aroclor 1262	249513	NA	20				1000.00	988.6	-1.1
Aroclor 1262 {1}	249513	AverageRF	100	8.0E+3	8.1E+3	1.3	1000.00	1013.0	
Aroclor 1262 {2}	249513	AverageRF	100	6.5E+3	6.2E+3	-4.6	1000.00	953.6	
Aroclor 1262 {3}	249513	AverageRF	100	1.4E+4	1.4E+4	0.5	1000.00	1005.0	
Aroclor 1262 {4}	249513	AverageRF	100	9.8E+3	9.6E+3	-2.1	1000.00	979.3	
Aroclor 1262 {5}	249513	AverageRF	100	5.4E+3	5.3E+3	-0.8	1000.00	992.3	
Aroclor 1268	249515	NA	20				1000.00	994.4	-0.6

Second Source Calibration Verification Summary

CalibrationID: CAL13284

Method ID: MJ696

DataFile Location: \\ALKLSWS002\INSTDATA\GC28\DATA\042414CAL.B\0424F(

Units: ppb

Column: DB-XLB

Parameter Name	File ID	Curve Fit	Method Criteria	AveRF	SSV RF	% Diff	True Value	Sol'n Conc	% Drift
Aroclor 1268 {1}	249515	AverageRF	100	1.8E+4	1.9E+4	2.6	1000.00	1026.0	
Aroclor 1268 {2}	249515	AverageRF	100	1.6E+4	1.9E+4	14.9	1000.00	1148.8	
Aroclor 1268 {3}	249515	AverageRF	100	1.4E+4	1.3E+4	-7.1	1000.00	929.1	
Aroclor 1268 {4}	249515	AverageRF	100	4.4E+4	3.8E+4	-12.6	1000.00	873.9	

Second Source Calibration Verification Summary

CalibrationID: CAL13284

Method ID: MJ696

DataFile Location: \\ALKLSWS002\INSTDATA\GC28\DATA\042414CAL_R.B\042

Units: ppb

Column: DB-35MS

Parameter Name	File ID	Curve Fit	Method Criteria	AveRF	SSV RF	% Diff	True Value	Sol'n Conc	% Drift
Aroclor 1016	249500	NA	20				1000.00	922.3	-7.8
Aroclor 1016 {1}	249500	AverageRF	100	9.7E+3	9.0E+3	-7.6	1000.00	923.7	
Aroclor 1016 {2}	249500	AverageRF	100	3.2E+4	3.1E+4	-4.4	1000.00	955.7	
Aroclor 1016 {3}	249500	AverageRF	100	2.1E+4	2.0E+4	-8.2	1000.00	918.4	
Aroclor 1016 {4}	249500	AverageRF	100	1.7E+4	1.5E+4	-12.9	1000.00	870.7	
Aroclor 1016 {5}	249500	AverageRF	100	1.7E+4	1.6E+4	-5.7	1000.00	943.2	
Aroclor 1221	249502	NA	20				1000.00	1023.2	2.3
Aroclor 1221 {1}	249502	AverageRF	100	6.5E+3	6.6E+3	1.8	1000.00	1018.5	
Aroclor 1221 {2}	249502	AverageRF	100	4.2E+3	4.5E+3	5.6	1000.00	1055.9	
Aroclor 1221 {3}	249502	AverageRF	100	1.6E+4	1.6E+4	-0.5	1000.00	995.2	
Aroclor 1232	249504	NA	20				1000.00	895.0	-10.5
Aroclor 1232 {1}	249504	AverageRF	100	1.5E+4	1.2E+4	-16.6	1000.00	833.9	
Aroclor 1232 {2}	249504	AverageRF	100	4.7E+3	4.2E+3	-10.3	1000.00	896.9	
Aroclor 1232 {3}	249504	AverageRF	100	9.6E+3	9.0E+3	-5.8	1000.00	941.8	
Aroclor 1232 {4}	249504	AverageRF	100	1.5E+4	1.3E+4	-10.4	1000.00	895.5	
Aroclor 1232 {5}	249504	AverageRF	100	1.0E+4	9.1E+3	-9.3	1000.00	906.7	
Aroclor 1242	249506	NA	20				1000.00	923.6	-7.6
Aroclor 1242 {1}	249506	AverageRF	100	1.0E+4	8.9E+3	-11.0	1000.00	890.4	
Aroclor 1242 {2}	249506	AverageRF	100	7.9E+3	7.2E+3	-8.4	1000.00	916.1	
Aroclor 1242 {3}	249506	AverageRF	100	2.5E+4	2.5E+4	-0.2	1000.00	998.1	
Aroclor 1242 {4}	249506	AverageRF	100	1.7E+4	1.5E+4	-10.0	1000.00	900.0	
Aroclor 1242 {5}	249506	AverageRF	100	1.0E+4	9.2E+3	-8.7	1000.00	913.5	
Aroclor 1248	249508	NA	20				1000.00	880.5	-12.0
Aroclor 1248 {1}	249508	AverageRF	100	1.4E+4	1.2E+4	-13.9	1000.00	861.5	
Aroclor 1248 {2}	249508	AverageRF	100	1.3E+4	1.1E+4	-11.9	1000.00	881.3	
Aroclor 1248 {3}	249508	AverageRF	100	1.9E+4	1.7E+4	-11.5	1000.00	885.4	
Aroclor 1248 {4}	249508	AverageRF	100	1.4E+4	1.3E+4	-11.7	1000.00	883.1	
Aroclor 1248 {5}	249508	AverageRF	100	1.3E+4	1.2E+4	-10.9	1000.00	891.1	
Aroclor 1254	249510	NA	20				1000.00	934.3	-6.6
Aroclor 1254 {1}	249510	AverageRF	100	1.4E+4	1.3E+4	-7.9	1000.00	920.8	
Aroclor 1254 {2}	249510	AverageRF	100	2.4E+4	2.3E+4	-4.2	1000.00	958.1	
Aroclor 1254 {3}	249510	AverageRF	100	5.2E+4	4.7E+4	-8.7	1000.00	912.6	
Aroclor 1254 {4}	249510	AverageRF	100	3.4E+4	3.2E+4	-8.0	1000.00	920.2	
Aroclor 1254 {5}	249510	AverageRF	100	2.1E+4	2.0E+4	-4.0	1000.00	959.9	
Aroclor 1260	249512	NA	20				1000.00	1077.5	7.7
Aroclor 1260 {1}	249512	AverageRF	100	1.8E+4	1.7E+4	-3.9	1000.00	960.9	
Aroclor 1260 {2}	249512	AverageRF	100	2.9E+4	3.3E+4	13.1	1000.00	1131.2	
Aroclor 1260 {3}	249512	AverageRF	100	2.9E+4	3.2E+4	10.1	1000.00	1100.7	
Aroclor 1260 {4}	249512	AverageRF	100	7.1E+4	7.9E+4	11.3	1000.00	1113.0	
Aroclor 1260 {5}	249512	AverageRF	100	5.4E+4	5.8E+4	8.2	1000.00	1081.6	
Aroclor 1262	249514	NA	20				1000.00	964.0	-3.6
Aroclor 1262 {1}	249514	AverageRF	100	4.8E+4	4.6E+4	-4.9	1000.00	951.3	
Aroclor 1262 {2}	249514	AverageRF	100	4.1E+4	3.8E+4	-7.1	1000.00	929.3	
Aroclor 1262 {3}	249514	AverageRF	100	8.7E+4	8.6E+4	-0.5	1000.00	995.4	
Aroclor 1262 {4}	249514	AverageRF	100	6.6E+4	6.3E+4	-4.0	1000.00	960.5	
Aroclor 1262 {5}	249514	AverageRF	100	3.2E+4	3.2E+4	-1.6	1000.00	983.7	
Aroclor 1268	249516	NA	20				1000.00	952.0	-4.8

Second Source Calibration Verification Summary

CalibrationID: CAL13284

Method ID: MJ696

DataFile Location: \\ALKLSWS002\INSTDATA\GC28\DATA\042414CAL_R.B\042

Units: ppb

Column: DB-35MS

Parameter Name	File ID	Curve Fit	Method Criteria	AveRF	SSV RF	% Diff	True Value	Sol'n Conc	% Drift
Aroclor 1268 {1}	249516	AverageRF	100	1.2E+5	1.1E+5	-2.2	1000.00	978.0	
Aroclor 1268 {2}	249516	AverageRF	100	1.0E+5	1.2E+5	10.6	1000.00	1105.6	
Aroclor 1268 {3}	249516	AverageRF	100	9.1E+4	8.0E+4	-12.2	1000.00	878.2	
Aroclor 1268 {4}	249516	AverageRF	100	2.8E+5	2.4E+5	-15.4	1000.00	846.0	

Report Date : 25-Apr-2014 23:31

ALS Environmental-Kelso

INITIAL CALIBRATION DATA

Start Cal Date : 25-APR-2014 06:34
End Cal Date : 25-APR-2014 17:42
Quant Method : ESTD
Origin : Disabled
Target Version : 4.04
Integrator : Falcon
Method file : \\alklsws002\instdata\GC28\Data\042414CAL.b\042414_f.m
Cal Date : 25-Apr-2014 23:20 tuser
Curve Type : Average

Calibration File Names:
Level 1: \\alklsws002\instdata\GC28\Data\042414CAL.b\0424F029.D
Level 2: \\alklsws002\instdata\GC28\Data\042414CAL.b\0424F030.D
Level 3: \\alklsws002\instdata\GC28\Data\042414CAL.b\0424F031.D
Level 4: \\alklsws002\instdata\GC28\Data\042414CAL.b\0424F032.D
Level 5: \\alklsws002\instdata\GC28\Data\042414CAL.b\0424F033.D
Level 6: \\alklsws002\instdata\GC28\Data\042414CAL.b\0424F034.D

Compound	25.000 Level 1	50.000 Level 2	500.000 Level 3	1000.000 Level 4	2000.000 Level 5	5000.000 Level 6	RRF	% RSD
2 Aroclor 1016(1)	2963	2780	2337	2337	2090	1924	2405	16.551
(2)	6774	6607	5590	5585	5175	4996	5788	12.758
(3)	4498	4284	3743	3723	3388	3190	3804	13.263
(4)	3400	3379	2846	2814	2566	2340	2891	14.796
(5)	3260	3272	2826	2806	2574	2374	2852	12.659
3 Aroclor 1221(1)	964	899	907	787	760	687	834	12.656
(2)	1112	923	888	804	766	670	861	17.712
(3)	3803	3505	3027	2751	2643	2388	3019	17.911
4 Aroclor 1232(1)	3450	3341	2848	2709	2396	2225	2828	17.430
(2)	1167	1044	931	889	785	735	925	17.409
(3)	1652	1605	1405	1240	1068	1037	1335	19.754
(4)	2489	2576	2178	2137	1901	1827	2185	13.839
(5)	2906	3026	2726	2662	2393	2211	2654	11.572
5 Aroclor 1242(1)	2192	2264	2005	1824	1715	1499	1916	15.266
(2)	1970	1779	1577	1429	1347	1172	1546	18.939
(3)	5227	5287	4698	4359	4186	3752	4585	13.168
(4)	2851	2783	2603	2396	2287	2041	2493	12.430
(5)	2446	2377	2465	2189	2137	1885	2250	9.948
6 Aroclor 1248(1)	3395	3379	2741	2664	2461	2383	2837	15.696
(2)	3135	3278	2943	2740	2657	2369	2854	11.657
(3)	4275	4030	3357	3194	2981	2726	3427	17.660
(4)	3181	3162	2808	2798	2615	2438	2834	10.403
(5)	5717	5313	4535	4432	4202	3970	4695	14.415
7 Aroclor 1254(1)	6145	5605	5186	4716	4598	4113	5060	14.571
(2)	2955	2830	2633	2389	2328	2206	2557	11.645
(3)	10027	8875	8080	7246	7076	6492	7966	16.438
(4)	3424	3058	2809	2515	2479	2237	2754	15.787
(5)	4990	4413	4489	4191	4235	3954	4378	8.063

Report Date : 25-Apr-2014 23:31

ALS Environmental-Kelso

INITIAL CALIBRATION DATA

Start Cal Date : 25-APR-2014 06:34
End Cal Date : 25-APR-2014 17:42
Quant Method : ESTD
Origin : Disabled
Target Version : 4.04
Integrator : Falcon
Method file : \\alklsws002\instdata\GC28\Data\042414CAL.b\042414_f.m
Cal Date : 25-Apr-2014 23:20 tuser
Curve Type : Average

Compound	25.000 Level 1	50.000 Level 2	500.000 Level 3	1000.000 Level 4	2000.000 Level 5	5000.000 Level 6	___ RRF	% RSD
8 Aroclor 1260(1)	8024	7368	6215	6055	5723	5228	6436	16.377
(2)	4957	5292	4688	4627	4420	3993	4663	9.555
(3)	6049	5676	4948	4914	4747	4326	5110	12.418
(4)	13417	12441	11127	11087	10902	10146	11520	10.314
(5)	8399	8013	7386	7362	7217	6552	7488	8.613
9 Aroclor 1262(1)	8924	8913	7996	8083	7288	6855	8010	10.463
(2)	7545	7191	6379	6505	5770	5438	6471	12.436
(3)	15837	15366	13990	14405	12944	12524	14178	9.202
(4)	10612	10954	9901	10162	8950	8422	9834	9.906
(5)	6097	5821	5375	5549	4880	4598	5387	10.495
10 Aroclor 1268(1)	20688	20211	19187	17185	16558	15793	18270	11.135
(2)	17922	17730	17158	15428	14865	14244	16225	9.715
(3)	15116	15344	14827	13310	12820	12250	13944	9.432
(4)	48373	48518	45393	41381	40562	39612	43973	9.063
M 75 Aroclors, Total	#####	#####	#####	#####	#####	#####	#####	#####
$ 1 Tetrachloro-m-xylene	128915	125048	106082	113029	108682	109824	115263	8.178
$ 11 Decachlorobiphenyl	128919	126364	112484	110484	106432	94758	113240	11.269

Report Date : 26-Apr-2014 00:42

ALS Environmental-Kelso

INITIAL CALIBRATION DATA

Start Cal Date : 25-APR-2014 06:34
End Cal Date : 25-APR-2014 17:42
Quant Method : ESTD
Origin : Disabled
Target Version : 4.04
Integrator : Falcon
Method file : \\alklsws002\instdata\GC28\Data\042414CAL_r.b\042414_r.m
Cal Date : 26-Apr-2014 00:36 tuser
Curve Type : Average

Calibration File Names:
Level 1: \\alklsws002\instdata\GC28\Data\042414CAL_r.b\0424F029.D
Level 2: \\alklsws002\instdata\GC28\Data\042414CAL_r.b\0424F030.D
Level 3: \\alklsws002\instdata\GC28\Data\042414CAL_r.b\0424F031.D
Level 4: \\alklsws002\instdata\GC28\Data\042414CAL_r.b\0424F032.D
Level 5: \\alklsws002\instdata\GC28\Data\042414CAL_r.b\0424F033.D
Level 6: \\alklsws002\instdata\GC28\Data\042414CAL_r.b\0424F034.D

Compound	25.000 Level 1	50.000 Level 2	500.000 Level 3	1000.000 Level 4	2000.000 Level 5	5000.000 Level 6	RRF	% RSD
2 Aroclor 1016(1)	11700	10990	9184	9519	8467	8488	9725	13.756
(2)	35362	32223	30219	34358	30227	29479	31978	7.606
(3)	25032	24224	20378	20697	19155	18859	21391	12.227
(4)	20078	19570	15922	15994	14391	14054	16668	15.432
(5)	19586	19233	16538	16688	15448	15111	17101	11.065
3 Aroclor 1221(1)	7783	6990	6327	6047	5957	5614	6453	12.377
(2)	5005	4604	4287	4031	3862	3528	4219	12.590
(3)	21104	17814	15462	14716	14384	13558	16173	17.419
4 Aroclor 1232(1)	19077	16602	14056	13489	12440	12094	14626	18.479
(2)	5528	5366	4684	4500	4126	3860	4677	14.186
(3)	10670	10714	10441	8900	7885	8720	9555	12.632
(4)	17046	16497	13455	14526	14118	13491	14856	10.416
(5)	11816	11328	9928	9581	8806	8605	10011	13.112
5 Aroclor 1242(1)	12459	11297	9894	9171	8856	8119	9966	16.343
(2)	9924	8613	7828	7428	6943	6402	7856	16.080
(3)	27855	27986	24849	23029	23855	23595	25195	8.702
(4)	20191	19936	17139	15962	15604	14485	17220	13.715
(5)	11228	11083	10105	9528	9610	9128	10114	8.562
6 Aroclor 1248(1)	17126	14650	13903	13556	13389	12064	14115	12.041
(2)	15307	13636	12677	11943	11384	10416	12561	13.824
(3)	22279	21104	17776	17580	17000	16575	18719	12.665
(4)	16750	15331	14032	13682	13046	12789	14272	10.567
(5)	14446	14331	12541	12384	12092	11919	12952	8.756
7 Aroclor 1254(1)	17410	15092	13806	12690	12382	11669	13841	15.317
(2)	26580	24847	24562	23428	23810	23293	24420	5.013
(3)	59169	53897	50859	48582	49390	48240	51690	8.132
(4)	40499	36480	33983	32003	32173	31181	34387	10.304
(5)	21154	19978	20836	19993	20705	20586	20542	2.293

Report Date : 26-Apr-2014 00:42

ALS Environmental-Kelso

INITIAL CALIBRATION DATA

Start Cal Date : 25-APR-2014 06:34
End Cal Date : 25-APR-2014 17:42
Quant Method : ESTD
Origin : Disabled
Target Version : 4.04
Integrator : Falcon
Method file : \\alklsws002\instdata\GC28\Data\042414CAL_r.b\042414_r.m
Cal Date : 26-Apr-2014 00:36 tuser
Curve Type : Average

Compound	25.000 Level 1	50.000 Level 2	500.000 Level 3	1000.000 Level 4	2000.000 Level 5	5000.000 Level 6	___ RRF	% RSD
8 Aroclor 1260(1)	18465	18297	16837	17548	17217	16700	17511	4.218
(2)	33483	32814	27982	28122	26689	25250	29057	11.500
(3)	33332	32266	28234	28562	27595	26187	29362	9.549
(4)	77798	74823	67641	70387	69473	67479	71267	5.846
(5)	58902	57727	51479	53079	51880	49712	53796	6.842
9 Aroclor 1262(1)	56700	54463	46137	46483	42858	43691	48389	11.956
(2)	47184	46065	39799	40081	37076	37882	41348	10.294
(3)	95400	90386	82358	85792	80650	84511	86516	6.334
(4)	73161	70647	63582	64562	59966	61931	65641	7.857
(5)	35612	34823	31847	32337	29814	30282	32453	7.247
10 Aroclor 1268(1)	132395	129861	118265	112074	109272	102783	117442	9.995
(2)	114680	113688	106151	100957	98695	93083	104542	8.199
(3)	99138	98298	92254	87714	85663	80735	90634	8.031
(4)	306028	297868	281456	269718	264800	251620	278582	7.407
M 76 Aroclors, Total	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
$ 1 Tetrachloro-m-xylene	565428	558996	576316	641730	626691	654832	603999	6.947
$ 11 Decachlorobiphenyl	854559	821157	672610	674835	641322	590553	709172	14.771

Front	TCMX	1016	1221	1232	1242	1248	1254	1260	1262	1268	2,4'/4,4'-DDx
	4.533	4.833	**4.683**	4.838	4.836	5.801	**7.070**	**8.433**	9.742	11.562	7.298
		5.837	4.750	5.238	5.239	5.837	7.120	9.733	10.202	**11.729**	7.915
		5.877	4.837	**5.415**	5.839	6.237	7.447	10.197	10.892	12.222	8.085
		6.233		5.802	**6.029**	**6.700**	7.547	10.883	11.562	13.619	8.662
		6.443		5.842	6.699	7.194	9.213	11.533	**12.912**		8.882
											9.495

Rear	TCMX	1016	1221	1232	1242	1248	1254	1260	1262	1268	2,4'/4,4'-DDx
	3.943	4.833	4.164	4.315	4.316	5.037	**6.384**	**7.827**	8.272	9.966	6.305
		5.033	**4.250**	4.838	4.836	**5.401**	6.830	8.267	8.835	10.092	6.742
		5.130	4.314	**5.022**	5.036	5.804	6.987	8.830	9.302	10.599	7.058
		5.313		5.038	5.132	6.004	7.330	9.293	10.098	**11.922**	7.528
		5.617		5.135	**5.272**	6.427	7.954	10.093	**11.245**		7.692
											8.192

Data File: \\alklsws002\instdata\GC28\Data\042414CAL.b\0424F003.D
Report Date: 26-Apr-2014 01:19

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC28\Data\042414CAL.b\0424F003.D
Sample #2 : \\alklsws002\instdata\GC28\Data\042414CAL_r.b\0424F003.D
Inj Date : 25-APR-2014 05:49
Sample Info: 2,4'/4,4'-DDx MARKER PCB6-27H
Misc Info :
Cal Date : 26-APR-2014 01:08
Operator : JMSmith
Inst ID : GC28.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC28\Data\042414CAL.b\042414_f.m
Method #2 : \\alklsws002\instdata\GC28\Data\042414CAL_r.b\042414_r.m
Sub List #1 : ALL.SUB
Sub List #2 : ALL.SUB
Col #1 Phase : DB-XLB
Col #2 Phase : DB-35MS

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio

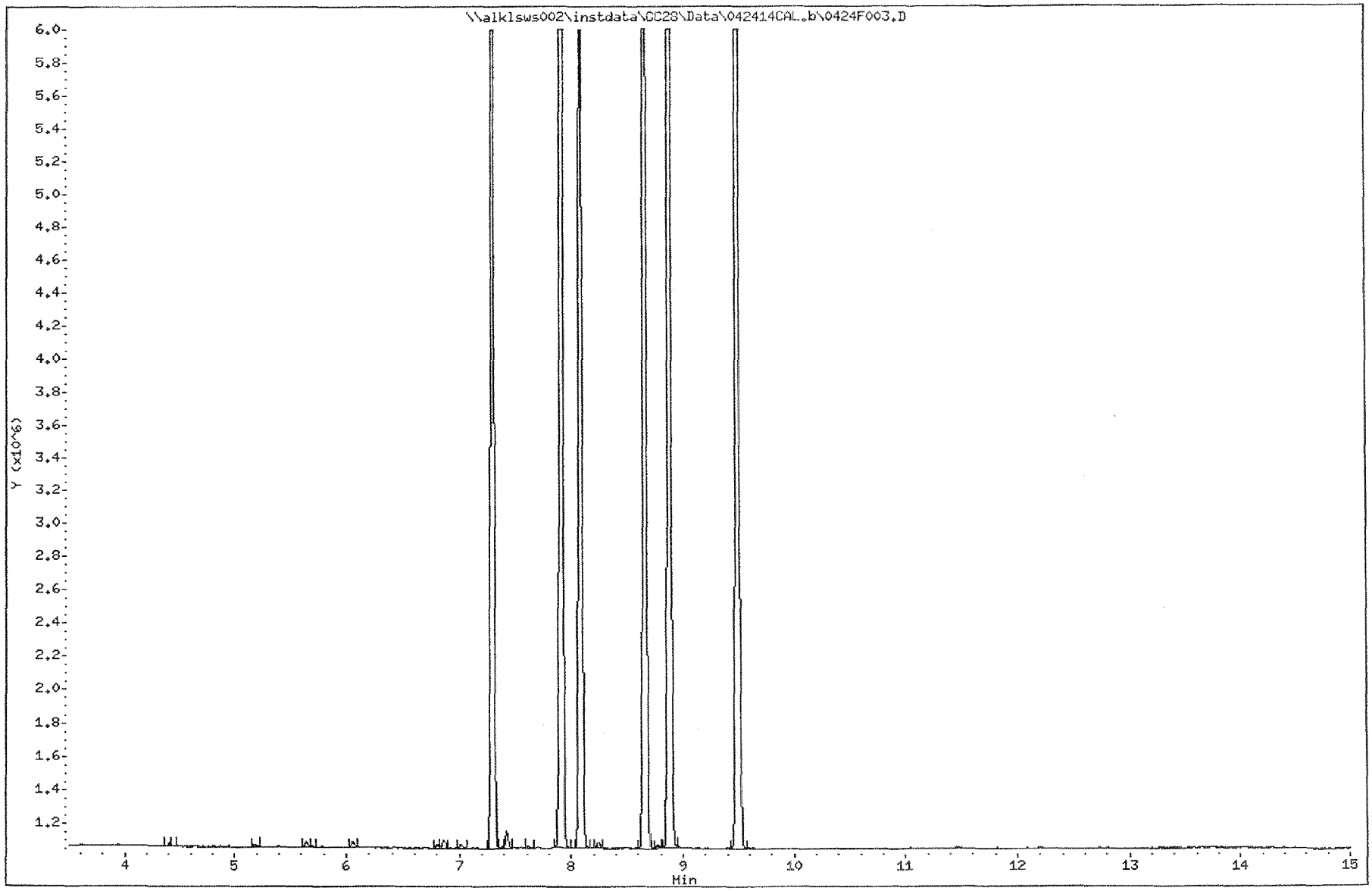
Data File: \\alklsws002\instdata\GC28\Data\042414CAL.b\0424F003.D
Date : 25-APR-2014 05:49
Client ID:
Sample Info: 2,4'/4,4'-DDx MARKER PCB6-27H

Instrument: GC28.i

Operator: JMSmith

Column phase: DB-XLB

Column diameter: 0.32



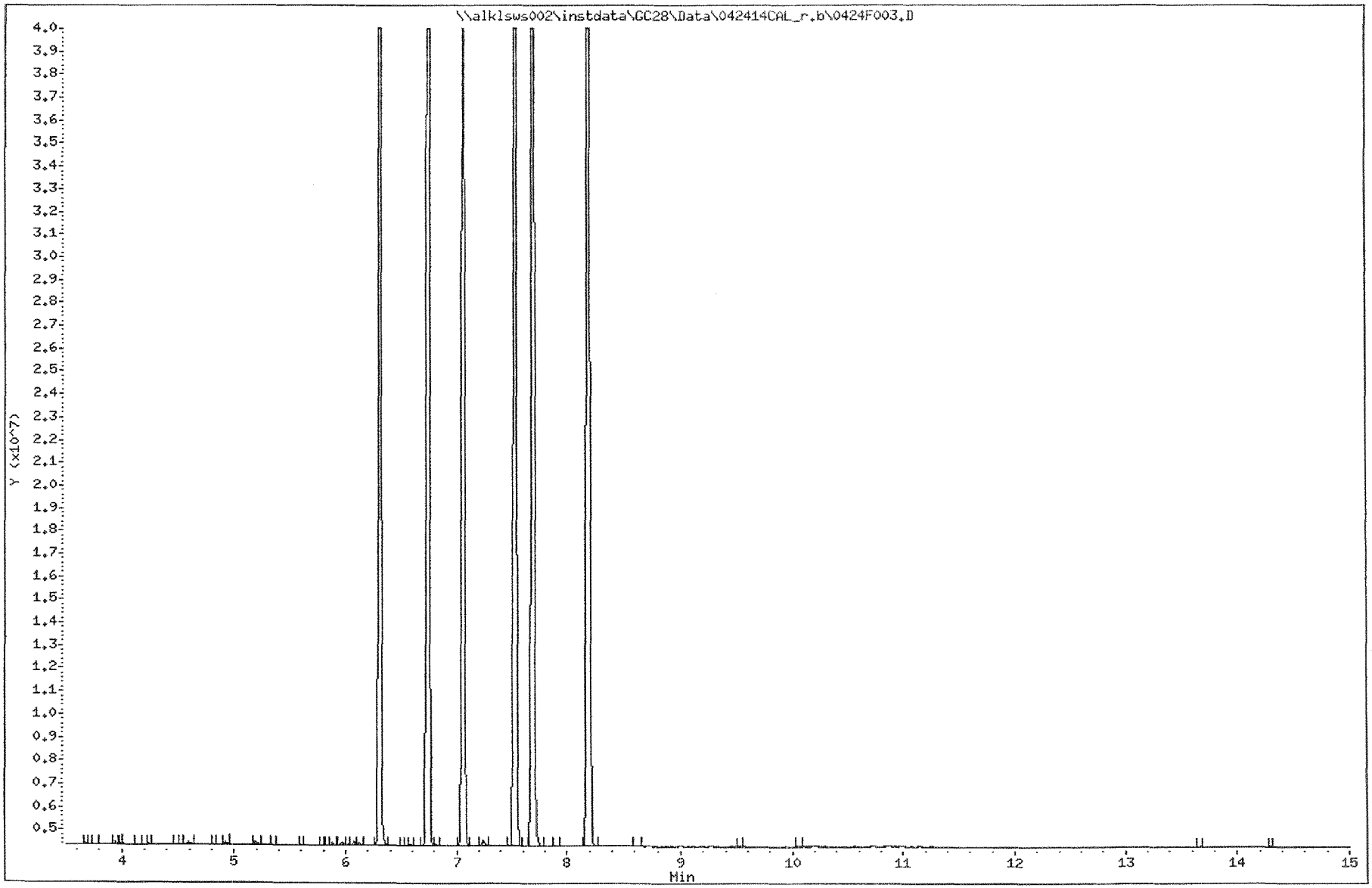
Data File: \\alklsws002\instdata\GC28\Data\042414CAL_r.b\0424F003.D
Date : 25-APR-2014 05:49
Client ID:
Sample Info: 2,4'/4,4'-DDx MARKER PCB6-27H

Instrument: GC28.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32



Data File: \\alklsws002\instdata\GC28\Data\042414CAL.b\0424F004.D
Report Date: 26-Apr-2014 01:13

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC28\Data\042414CAL.b\0424F004.D
Sample #2 : \\alklsws002\instdata\GC28\Data\042414CAL_r.b\0424F004.D
Inj Date : 25-APR-2014 06:11
Sample Info: IB
Misc Info :
Cal Date : 26-APR-2014 01:01
Operator : JMSmith
Inst ID : GC28.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC28\Data\042414CAL.b\042414_f.m
Method #2 : \\alklsws002\instdata\GC28\Data\042414CAL_r.b\042414_r.m
Sub List #1 : ALL.SUB
Sub List #2 : ALL.SUB
Col #1 Phase : DB-XLB
Col #2 Phase : DB-35MS

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio

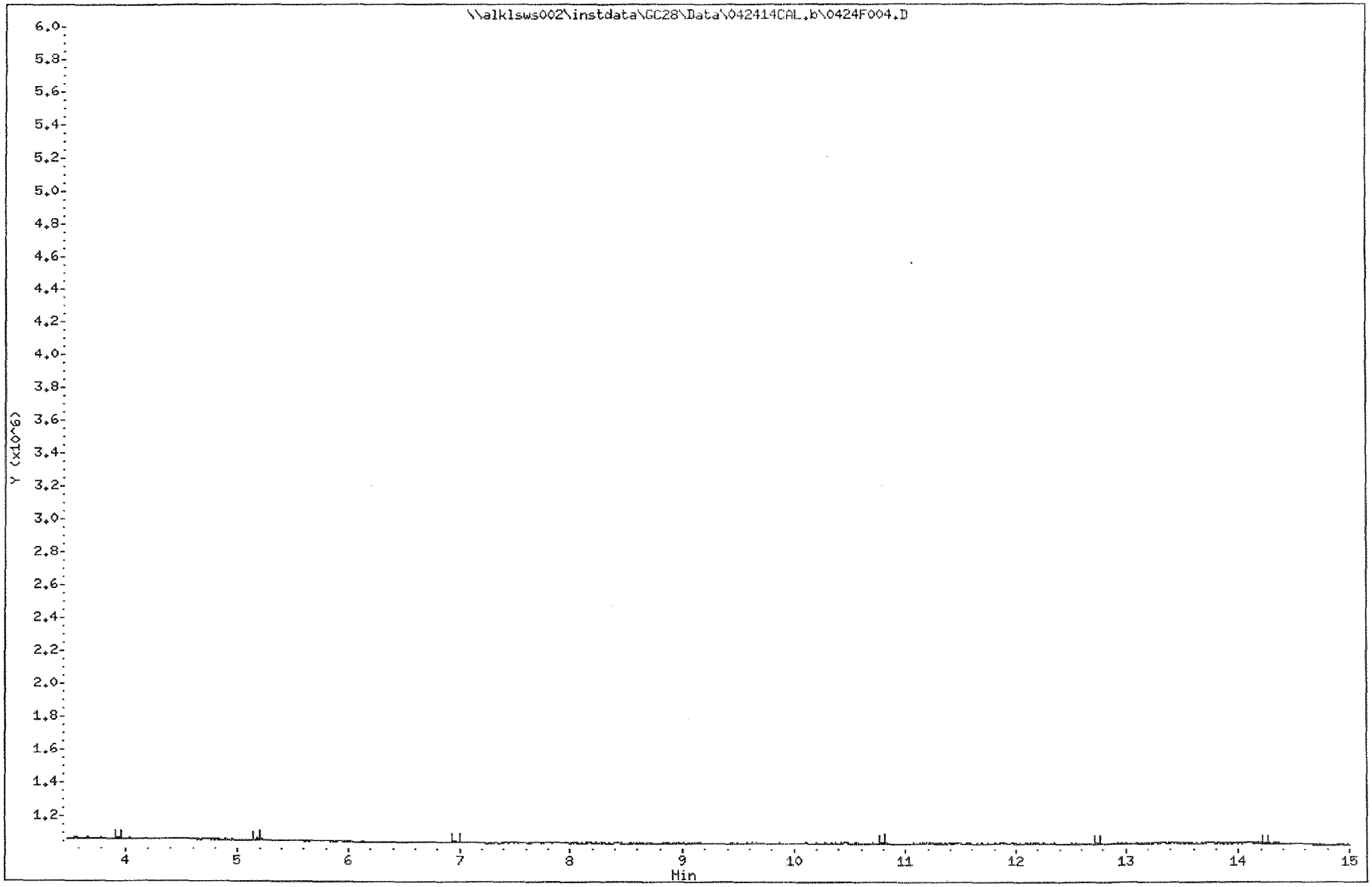
Data File: \\alklsws002\instdata\GC28\Data\042414CAL.b\0424F004.D
Date : 25-APR-2014 06:11
Client ID:
Sample Info: IB

Instrument: GC28.i

Operator: JHSmith

Column phase: DB-XLB

Column diameter: 0.32



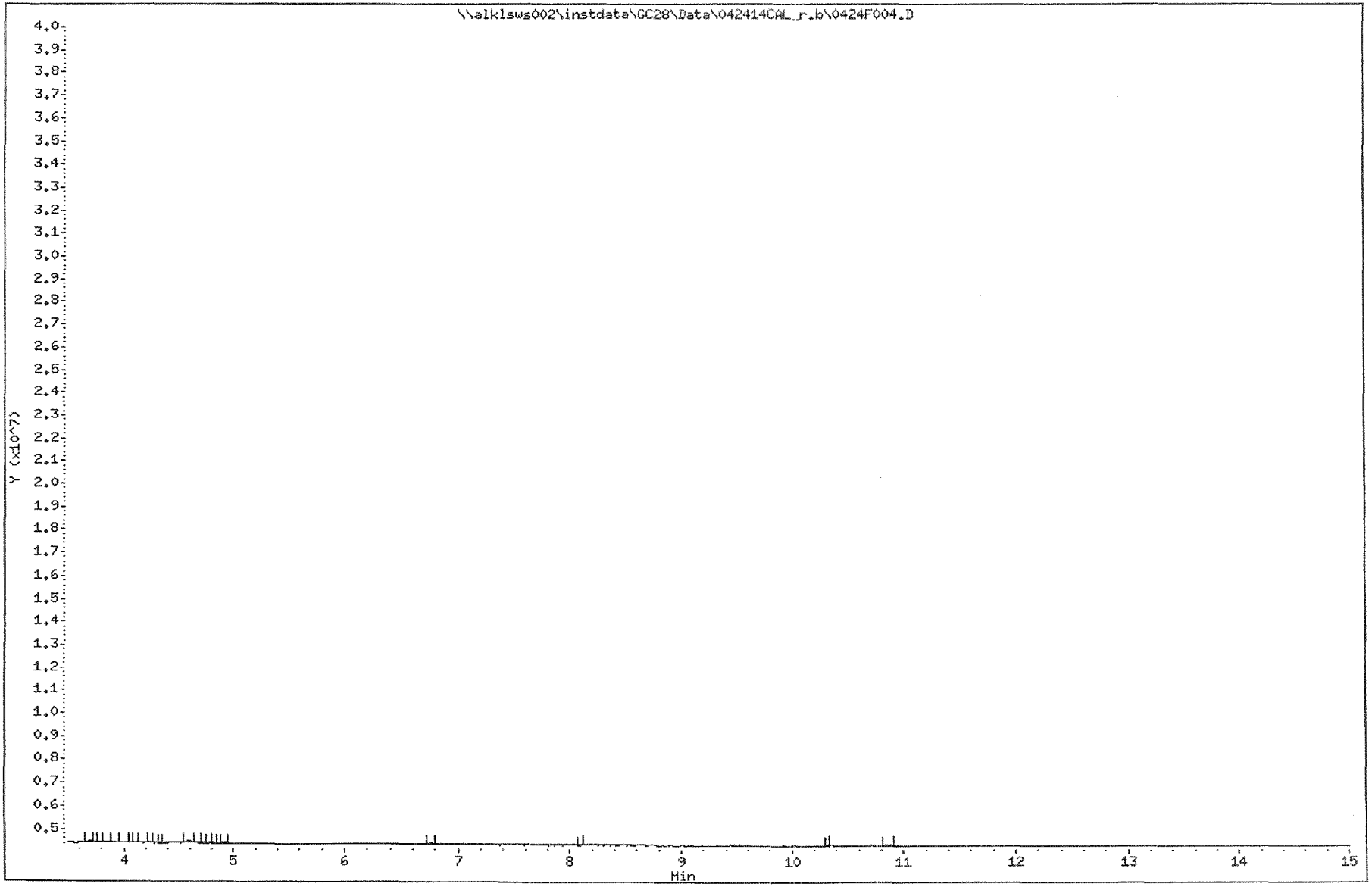
Data File: \\alklsws002\instdata\GC28\Data\042414CAL_r.b\0424F004.D
Date : 25-APR-2014 06:11
Client ID:
Sample Info: IB

Instrument: GC28.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32



Data File: \\alklsws002\instdata\GC28\Data\042414CAL.b\0424F005.D
Report Date: 26-Apr-2014 01:13

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC28\Data\042414CAL.b\0424F005.D
Sample #2 : \\alklsws002\instdata\GC28\Data\042414CAL_r.b\0424F005.D
Inj Date : 25-APR-2014 06:34
Sample Info: 1660 @ 2.5-25ppb PCB6-31E
Misc Info :
Cal Date : 26-APR-2014 01:07
Operator : JMSmith
Inst ID : GC28.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC28\Data\042414CAL.b\042414_f.m
Method #2 : \\alklsws002\instdata\GC28\Data\042414CAL_r.b\042414_r.m
Sub List #1 : 1660.SUB
Sub List #2 : 1660.SUB
Col #1 Phase : DB-XLB
Col #2 Phase : DB-35MS

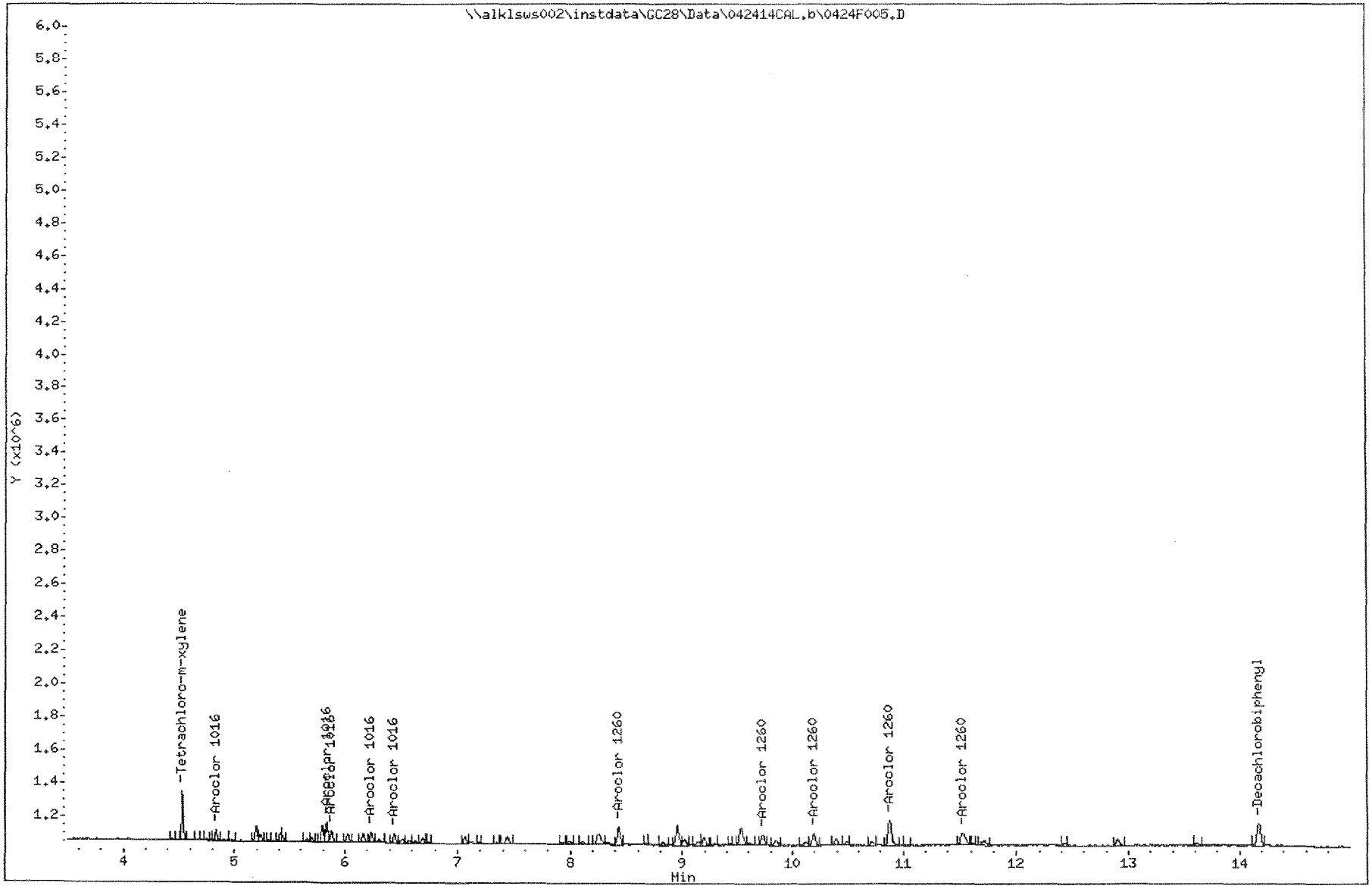
Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Tetrachloro-m-xylene	4.534	3.944	322288	1413570	2.80	2.34		100.00
Aroclor 1016	4.834	4.834	74068	292497	30.8	30.1	80.00- 120.00	100.00
	5.834	5.034	169357	884044	29.3	27.6	207.77- 311.65	228.65
	5.877	5.130	112447	625812	29.6	29.3	132.64- 198.96	151.82
	6.234	5.314	84993	501956	29.4	30.1	97.29- 145.93	114.75
	6.444	5.614	81502	489659	28.6	28.6	98.71- 148.06	110.04
		Average of Peak Amounts =			29.5	29.1		
Aroclor 1260	8.434	7.824	200608	461620	31.2	26.4	80.00- 120.00	100.00
	9.734	8.264	123919	837079	26.6	28.8	61.10- 91.65	61.77
	10.194	8.830	151231	833288	29.6	28.4	66.20- 99.30	75.39
	10.884	9.294	335415	1944954	29.1	27.3	155.26- 232.89	167.20
	11.530	10.094	209974	1472538	28.0	27.4	100.27- 150.40	104.67
		Average of Peak Amounts =			28.9	27.7		
Decachlorobiphenyl	14.177	12.484	322298	2136398	2.85	3.01		100.00

Data File: \\alklsws002\instdata\GC28\Data\042414CAL.b\0424F005.D
Date : 25-APR-2014 06:34
Client ID:
Sample Info: 1660 @ 2.5-25ppb PCB6-31E

Column phase: DB-XLB

Instrument: GC28.i

Operator: JMSmith
Column diameter: 0.32

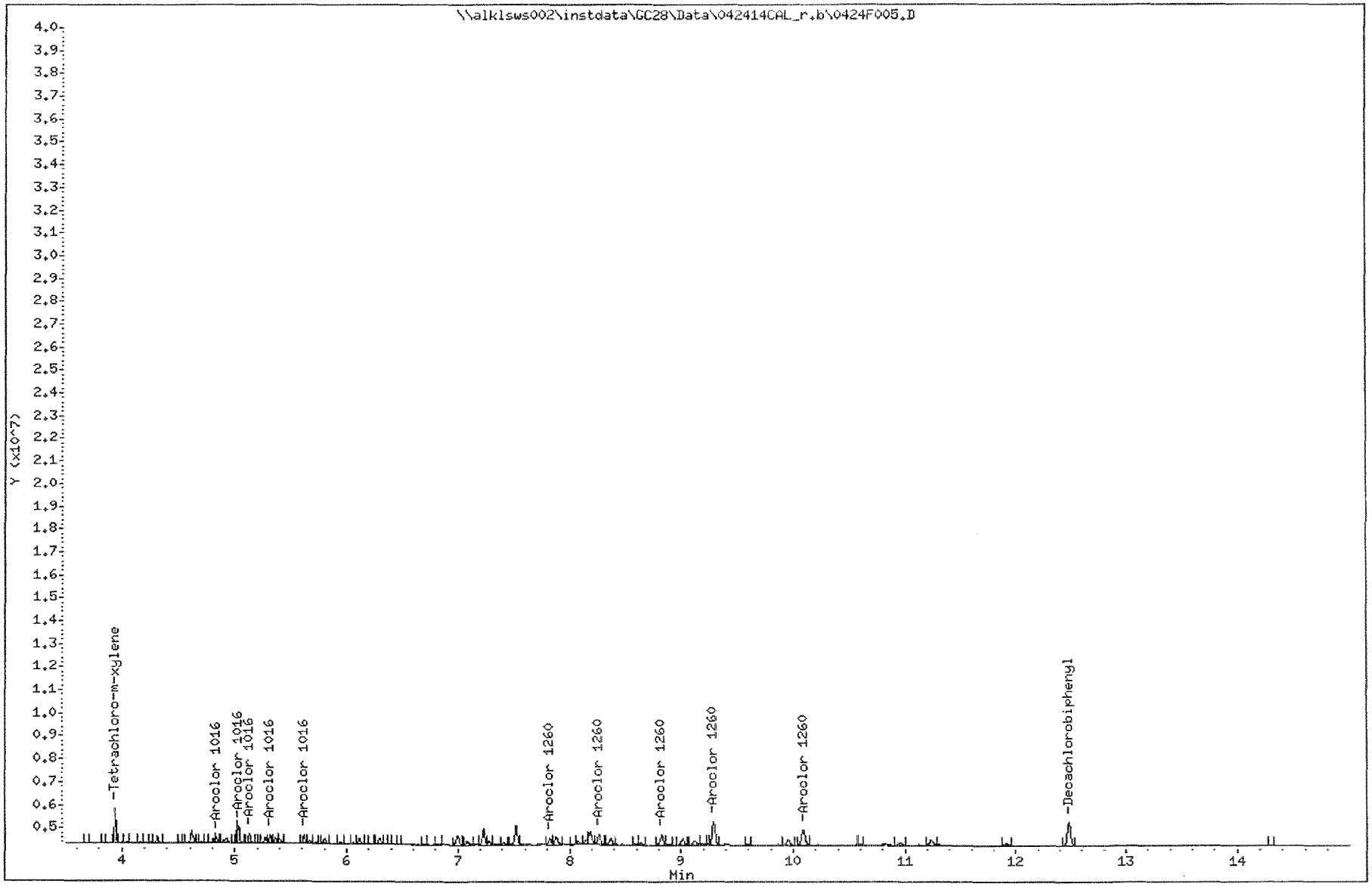


Data File: \\alklsws002\instdata\GC28\Data\042414CAL_r.b\0424F005.D
Date : 25-APR-2014 06:34
Client ID:
Sample Info: 1660 @ 2.5-25ppb PCB6-31E

Column phase: DB-35MS

Instrument: GC28.i

Operator: JMSmith
Column diameter: 0.32



Data File: \\alklsws002\instdata\GC28\Data\042414CAL.b\0424F006.D
Report Date: 26-Apr-2014 01:13

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC28\Data\042414CAL.b\0424F006.D
Sample #2 : \\alklsws002\instdata\GC28\Data\042414CAL_r.b\0424F006.D
Inj Date : 25-APR-2014 06:57
Sample Info: 1660 @ 5.0-50ppb PCB6-31D
Misc Info :
Cal Date : 26-APR-2014 01:07
Operator : JMSmith
Inst ID : GC28.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC28\Data\042414CAL.b\042414_f.m
Method #2 : \\alklsws002\instdata\GC28\Data\042414CAL_r.b\042414_r.m
Sub List #1 : 1660.SUB
Sub List #2 : 1660.SUB
Col #1 Phase : DB-XLB
Col #2 Phase : DB-35MS

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Tetrachloro-m-xylene	4.534	3.944	625240	2794981	5.42	4.63		100.00
Aroclor 1016	4.834	4.834	139018	549495	57.8	56.5	80.00- 120.00	100.00
	5.834	5.034	330352	1611136	57.1	50.4	207.77- 311.65	237.63
	5.878	5.128	214224	1211180	56.3	56.6	132.64- 198.96	154.10
	6.234	5.314	168943	978496	58.4	58.7	97.29- 145.93	121.53
	6.441	5.614	163585	961659	57.4	56.2	98.71- 148.06	117.67
		Average of Peak Amounts =			57.4	55.7		
Aroclor 1260	8.434	7.824	368408	914867	57.2	52.2	80.00- 120.00	100.00
	9.731	8.264	264603	1640687	56.7	56.5	61.10- 91.65	71.82
	10.194	8.828	283779	1613288	55.5	54.9	66.20- 99.30	77.03
	10.884	9.294	622052	3741172	54.0	52.5	155.26- 232.89	168.85
	11.531	10.091	400638	2886327	53.5	53.7	100.27- 150.40	108.75
		Average of Peak Amounts =			55.4	54.0		
Decachlorobiphenyl	14.178	12.484	631821	4105783	5.58	5.79		100.00

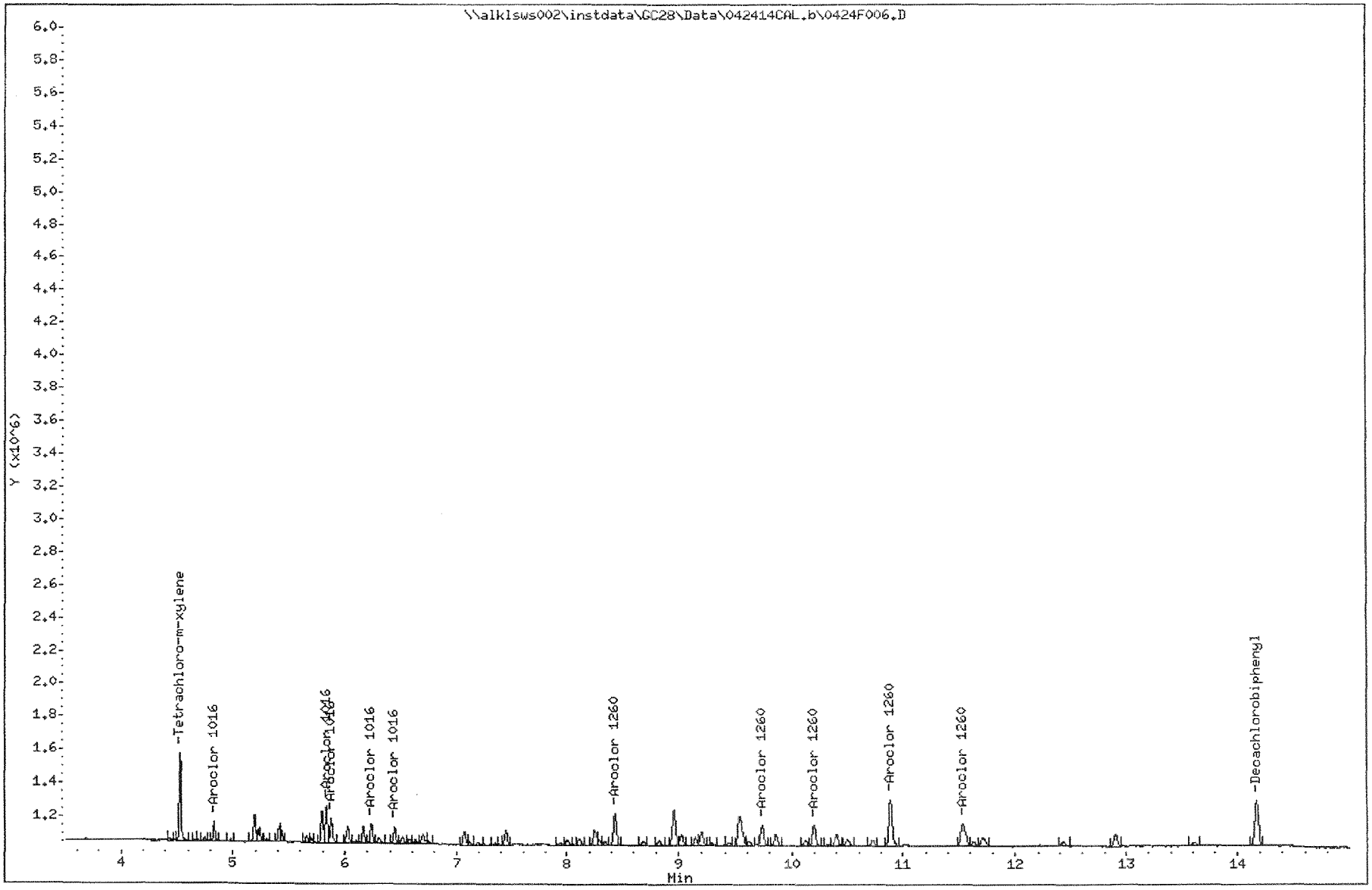
Data File: \\alklsws002\instdata\GC28\Data\042414CAL.b\0424F006.D
Date : 25-APR-2014 06:57
Client ID:
Sample Info: 1660 @ 5.0-50ppb PCB6-31D

Instrument: GC28.i

Operator: JMSmith

Column phase: DB-XLB

Column diameter: 0.32



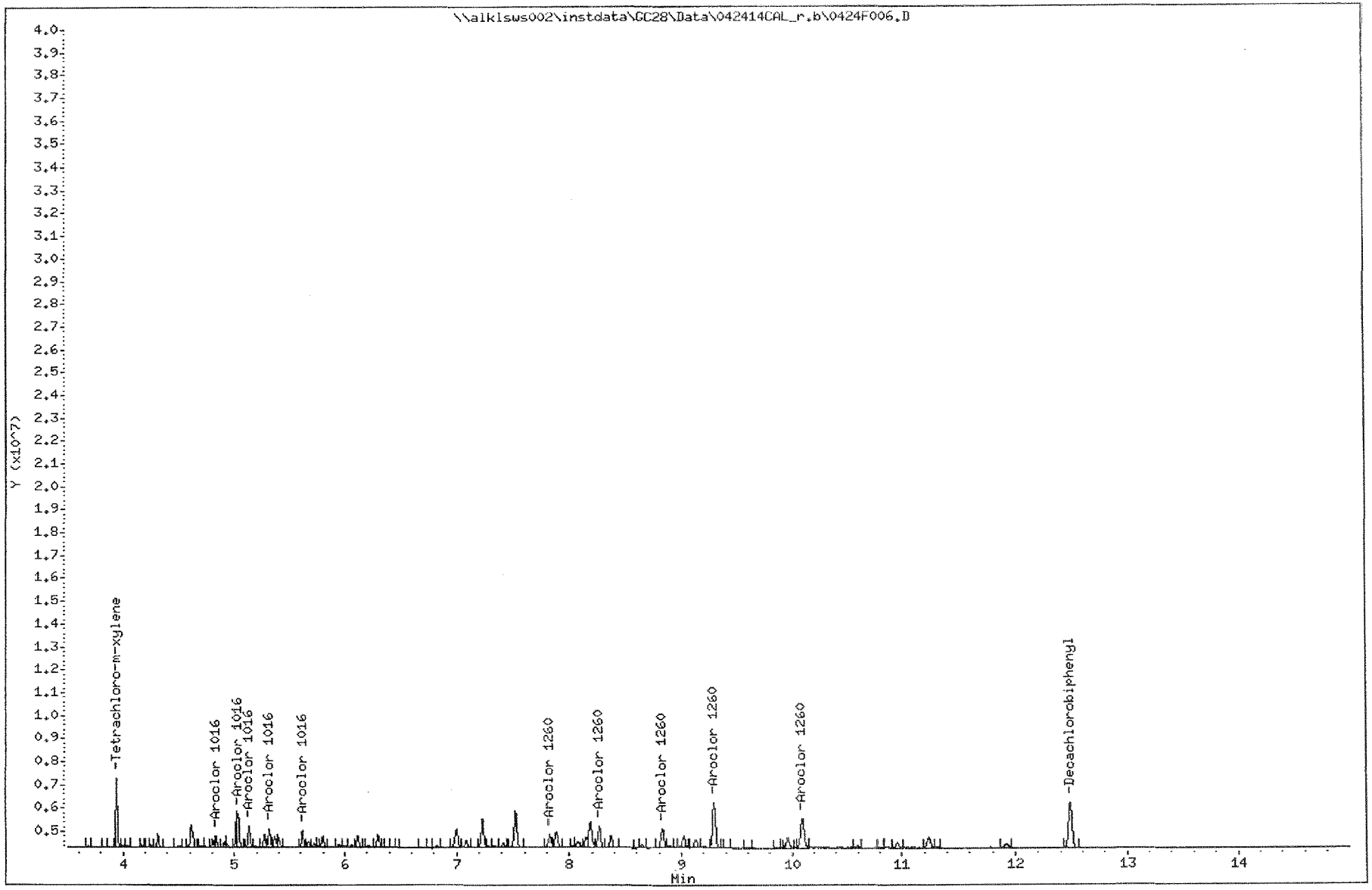
Data File: \\alklsws002\instdata\GC28\Data\042414CAL_r.b\0424F006.D
Date : 25-APR-2014 06:57
Client ID:
Sample Info: 1660 @ 5.0-50ppb PCB6-31D

Instrument: GC28.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32



Data File: \\alklsws002\instdata\GC28\Data\042414CAL.b\0424F007.D
Report Date: 26-Apr-2014 01:13

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC28\Data\042414CAL.b\0424F007.D
Sample #2 : \\alklsws002\instdata\GC28\Data\042414CAL_r.b\0424F007.D
Inj Date : 25-APR-2014 07:19
Sample Info: 1660 @ 50-500ppb PCB6-38M
Misc Info :
Cal Date : 26-APR-2014 01:07
Operator : JMSmith
Inst ID : GC28.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC28\Data\042414CAL.b\042414_f.m
Method #2 : \\alklsws002\instdata\GC28\Data\042414CAL_r.b\042414_r.m
Sub List #1 : 1660.SUB
Sub List #2 : 1660.SUB
Col #1 Phase : DB-XLB
Col #2 Phase : DB-35MS

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Tetrachloro-m-xylene	4.533	3.943	5304117	28815791	46.0	47.7		100.00
Aroclor 1016	4.833	4.833	1168542	4592095	486	472	80.00- 120.00	100.00(M)
	5.837	5.033	2794809	15109475	483	472	207.77- 311.65	239.17(M)
	5.877	5.130	1871661	10188778	492	476	132.64- 198.96	160.17(M)
	6.233	5.313	1423001	7960815	492	478	97.29- 145.93	121.78(M)
	6.443	5.617	1412910	8268824	495	484	98.71- 148.06	120.91(M)
		Average of Peak Amounts =			490	476		
Aroclor 1260	8.433	7.827	3107489	8418350	483	481	80.00- 120.00	100.00
	9.733	8.267	2344092	13990983	503	482	61.10- 91.65	75.43
	10.197	8.830	2473882	14116846	484	481	66.20- 99.30	79.61
	10.883	9.293	5563648	33820299	483	475	155.26- 232.89	179.04
	11.533	10.093	3693199	25739618	493	478	100.27- 150.40	118.85
		Average of Peak Amounts =			489	479		
Decachlorobiphenyl	14.177	12.487	5624201	33630480	49.7	47.4		100.00

QC Flag Legend

M - Compound response manually integrated.

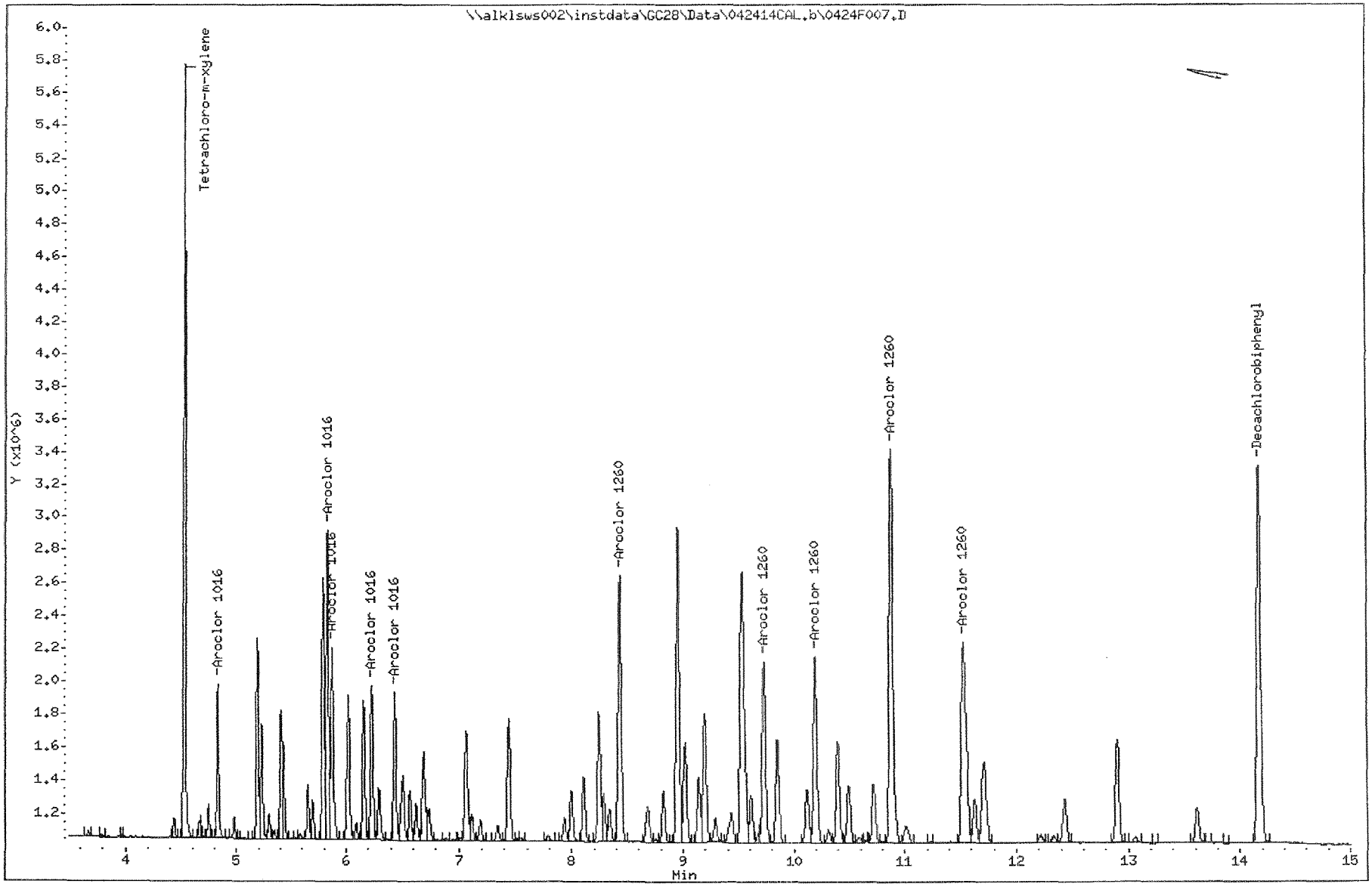
Data File: \\alklsws002\instdata\GC28\Data\042414CAL.b\0424F007.D
Date : 25-APR-2014 07:19
Client ID:
Sample Info: 1660 @ 50-500ppb PCB6-38M

Instrument: GC28.i

Operator: JMSmith

Column phase: DB-XLB

Column diameter: 0.32

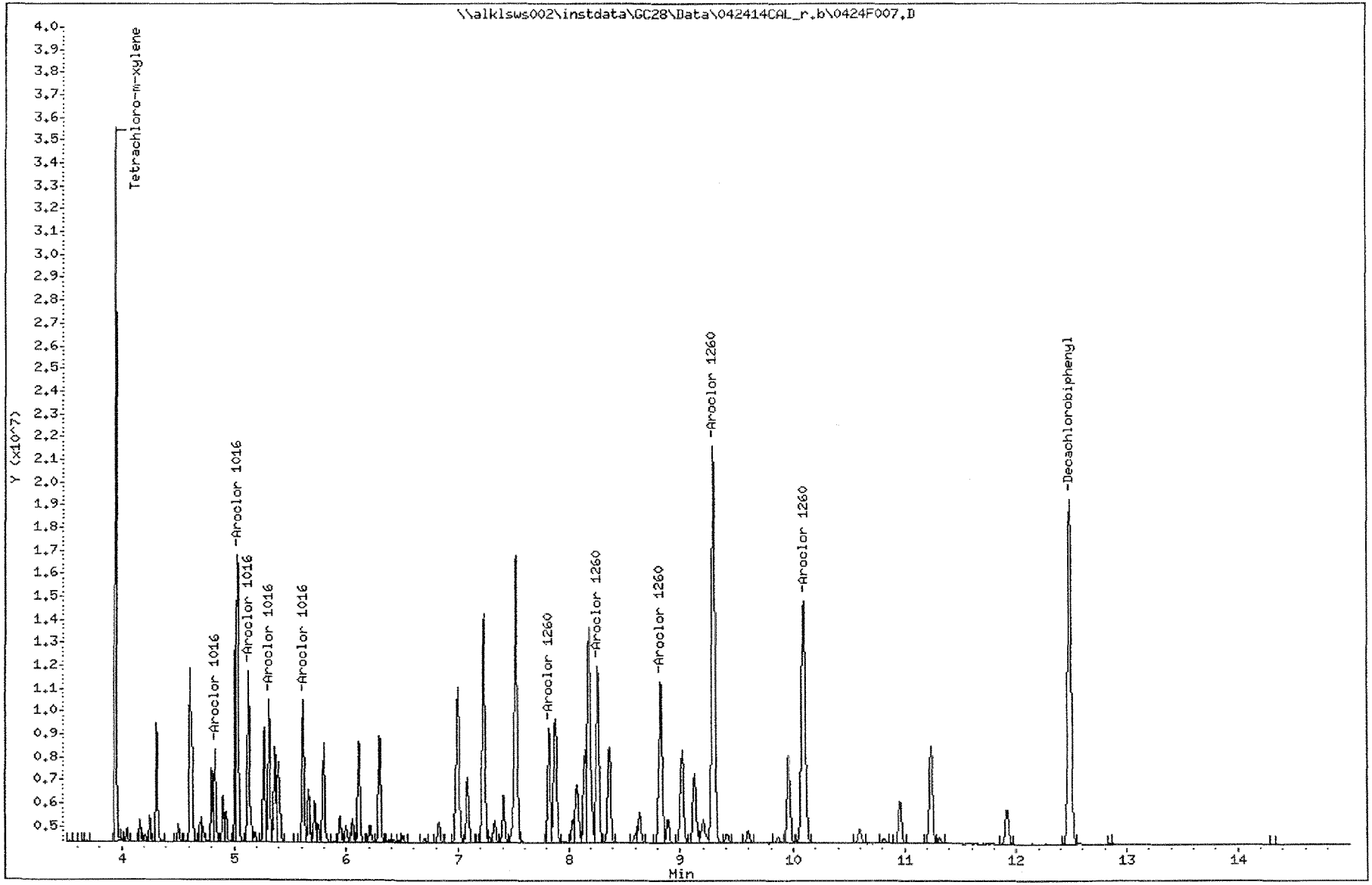


Data File: \\alklsws002\instdata\GC28\Data\042414CAL_r.b\0424F007.D
Date : 25-APR-2014 07:19
Client ID:
Sample Info: 1660 @ 50-500ppb PCB6-38M

Column phase: DB-35MS

Instrument: GC28.i

Operator: JMSmith
Column diameter: 0.32



Data File: \\alklsws002\instdata\GC28\Data\042414CAL.b\0424F008.D
Report Date: 26-Apr-2014 01:13

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC28\Data\042414CAL.b\0424F008.D
Sample #2 : \\alklsws002\instdata\GC28\Data\042414CAL_r.b\0424F008.D
Inj Date : 25-APR-2014 07:42
Sample Info: 1660 @ 100-1000ppb PCB6-31C
Misc Info :
Cal Date : 26-APR-2014 01:07
Operator : JMSmith
Inst ID : GC28.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC28\Data\042414CAL.b\042414_f.m
Method #2 : \\alklsws002\instdata\GC28\Data\042414CAL_r.b\042414_r.m
Sub List #1 : 1660.SUB
Sub List #2 : 1660.SUB
Col #1 Phase : DB-XLB
Col #2 Phase : DB-35MS

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Tetrachloro-m-xylene	4.535	3.945	11302883	64172996	98.1	106		100.00
Aroclor 1016	4.835	4.835	2336624	9518987	972	979	80.00- 120.00	100.00
	5.835	5.035	5584625	34357671	965	1070	207.77- 311.65	239.00
	5.879	5.132	3723149	20696745	979	968	132.64- 198.96	159.34
	6.235	5.315	2814291	15993803	974	960	97.29- 145.93	120.44
	6.442	5.615	2805571	16688083	984	976	98.71- 148.06	120.07
		Average of Peak Amounts =			975	991		
Aroclor 1260	8.435	7.825	6055158	17548081	941	1000	80.00- 120.00	100.00
	9.735	8.265	4626518	28122134	992	968	61.10- 91.65	76.41
	10.195	8.832	4913959	28561512	962	973	66.20- 99.30	81.15
	10.885	9.295	11087013	70387197	962	988	155.26- 232.89	183.10
	11.532	10.092	7362399	53078815	983	987	100.27- 150.40	121.59
		Average of Peak Amounts =			968	983		
Decachlorobiphenyl	14.175	12.485	11048356	67483475	97.6	95.2		100.00

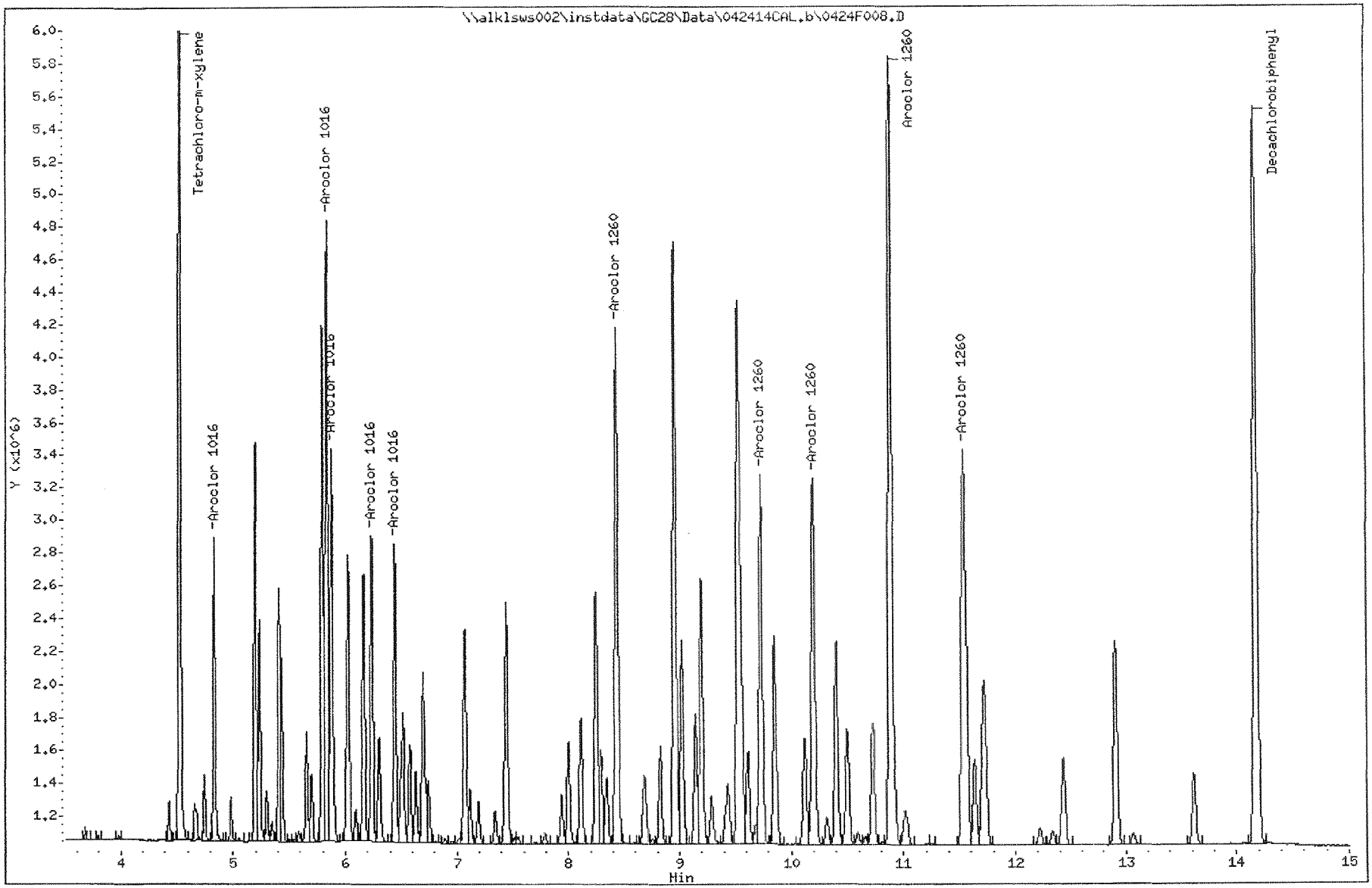
Data File: \\alklsws002\instdata\GC28\Data\042414CAL.b\0424F008.D
Date : 25-APR-2014 07:42
Client ID:
Sample Info: 1660 @ 100-1000ppb PCB6-31C

Instrument: GC28.i

Operator: JMSmith

Column phase: DB-XLB

Column diameter: 0.32



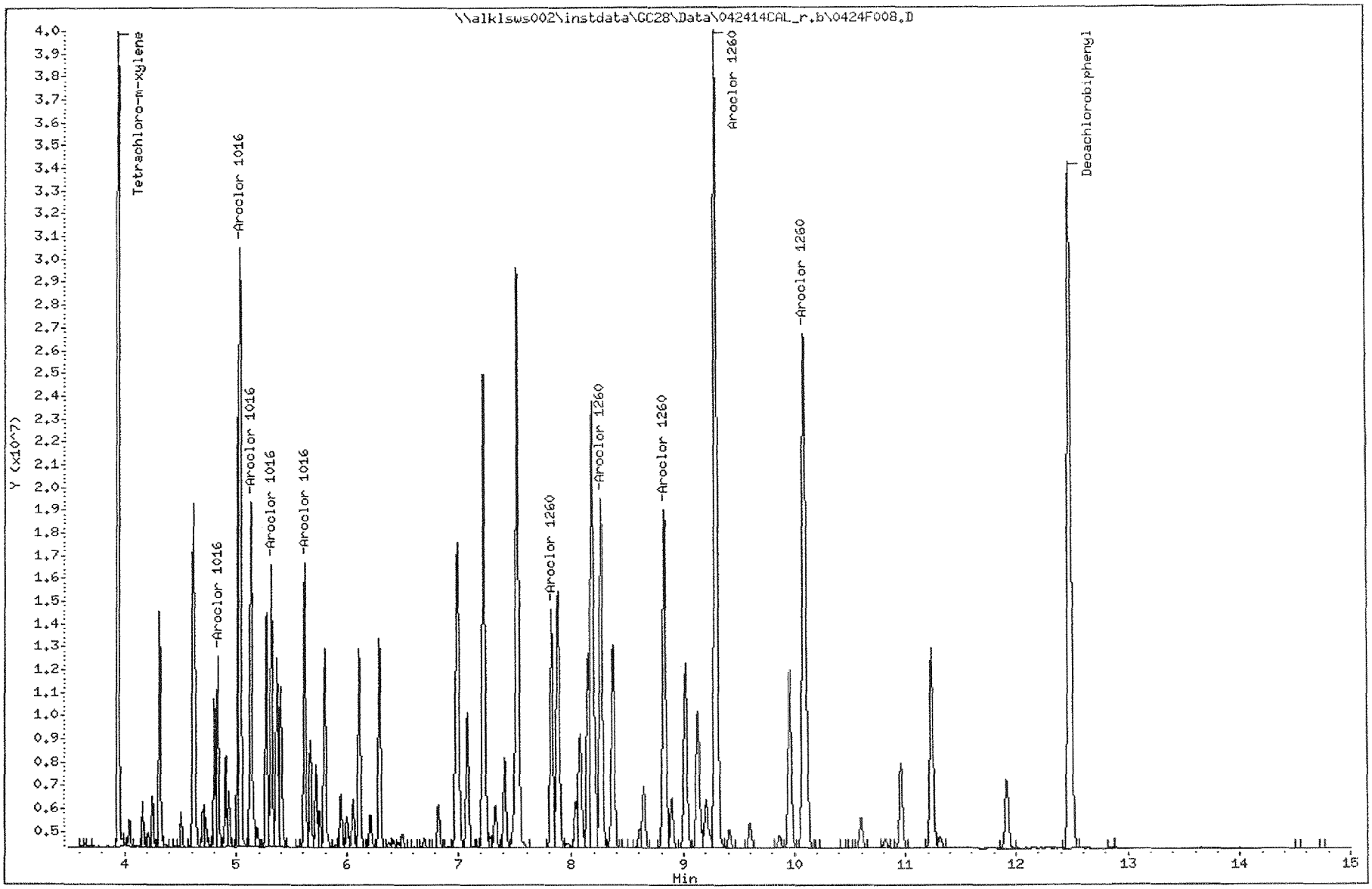
Data File: \\alklsws002\instdata\GC28\Data\042414CAL_r.b\0424F008.D
Date : 25-APR-2014 07:42
Client ID:
Sample Info: 1660 @ 100-1000ppb PCB6-31C

Instrument: GC28.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32



Data File: \\alklsws002\instdata\GC28\Data\042414CAL.b\0424F009.D
Report Date: 26-Apr-2014 01:13

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC28\Data\042414CAL.b\0424F009.D
Sample #2 : \\alklsws002\instdata\GC28\Data\042414CAL_r.b\0424F009.D
Inj Date : 25-APR-2014 08:05
Sample Info: 1660 @ 200-2000ppb PCB6-31B
Misc Info :
Cal Date : 26-APR-2014 01:07
Operator : JMSmith
Inst ID : GC28.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC28\Data\042414CAL.b\042414_f.m
Method #2 : \\alklsws002\instdata\GC28\Data\042414CAL_r.b\042414_r.m
Sub List #1 : 1660.SUB
Sub List #2 : 1660.SUB
Col #1 Phase : DB-XLB
Col #2 Phase : DB-35MS

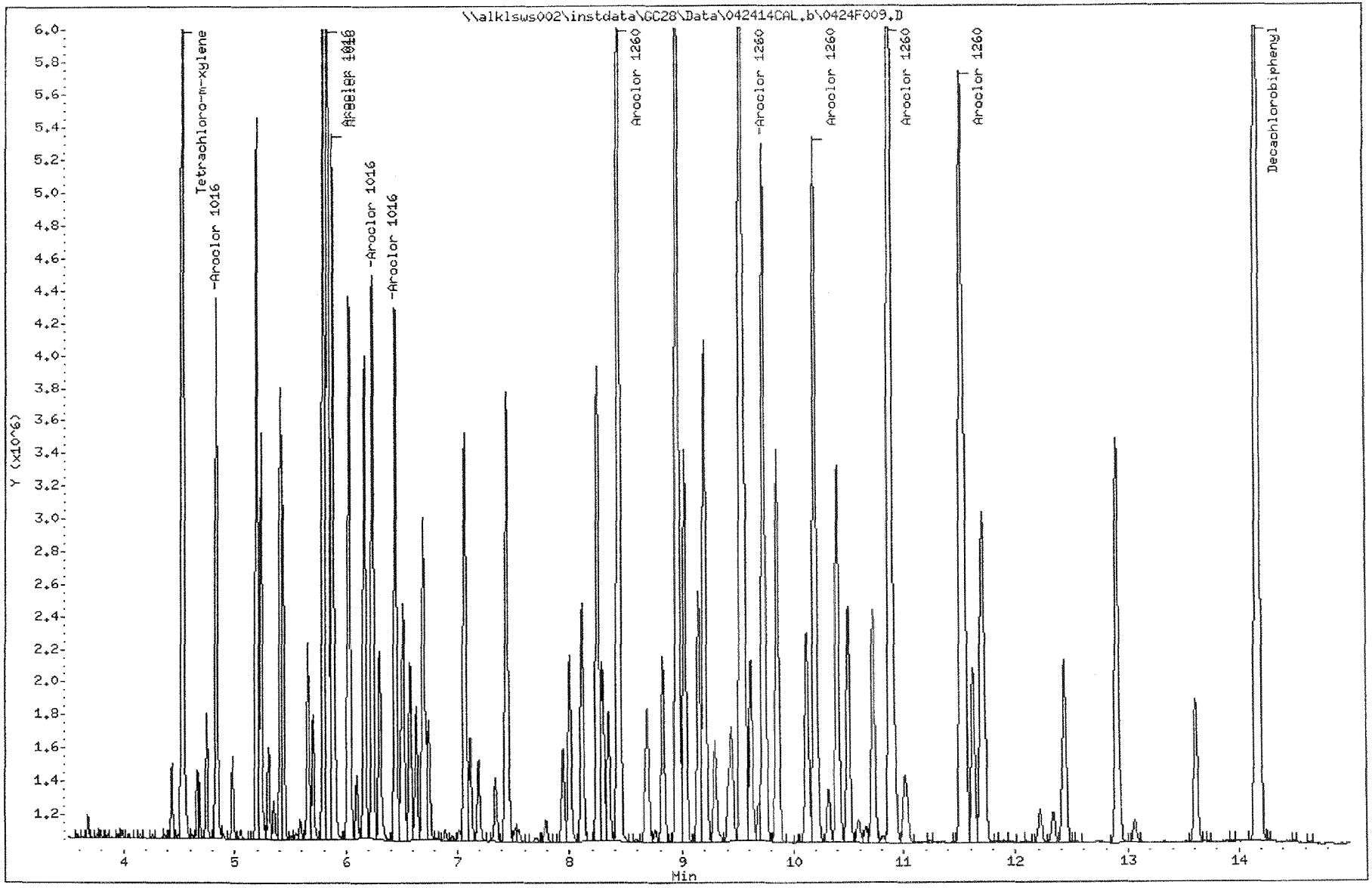
Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Tetrachloro-m-xylene	4.534	3.944	21736328	125338239	189	208		100.00
Aroclor 1016	4.838	4.834	4179330	16934745	1740	1740	80.00- 120.00	100.00
	5.838	5.034	10350911	60453440	1790	1890	207.77- 311.65	247.67
	5.881	5.131	6776217	38310893	1780	1790	132.64- 198.96	162.14
	6.238	5.314	5131317	28781768	1780	1730	97.29- 145.93	122.78
	6.444	5.618	5147579	30896850	1810	1810	98.71- 148.06	123.17
		Average of Peak Amounts =			1780	1790		
Aroclor 1260	8.438	7.828	11445498	34433043	1780	1970	80.00- 120.00	100.00
	9.734	8.268	8839216	53378919	1900	1840	61.10- 91.65	77.23
	10.198	8.831	9494101	55189710	1860	1880	66.20- 99.30	82.95
	10.884	9.294	21803175	138946378	1890	1950	155.26- 232.89	190.50
	11.534	10.094	14433960	103760504	1930	1930	100.27- 150.40	126.11
		Average of Peak Amounts =			1870	1910		
Decachlorobiphenyl	14.178	12.488	21286344	128264319	188	181		100.00

Data File: \\alklsws002\instdata\GC28\Data\042414CAL.b\0424F009.D
Date : 25-APR-2014 08:05
Client ID:
Sample Info: 1660 @ 200-2000ppb PCB6-31B

Column phase: DB-XLB

Instrument: GC28.i

Operator: JHSmith
Column diameter: 0.32



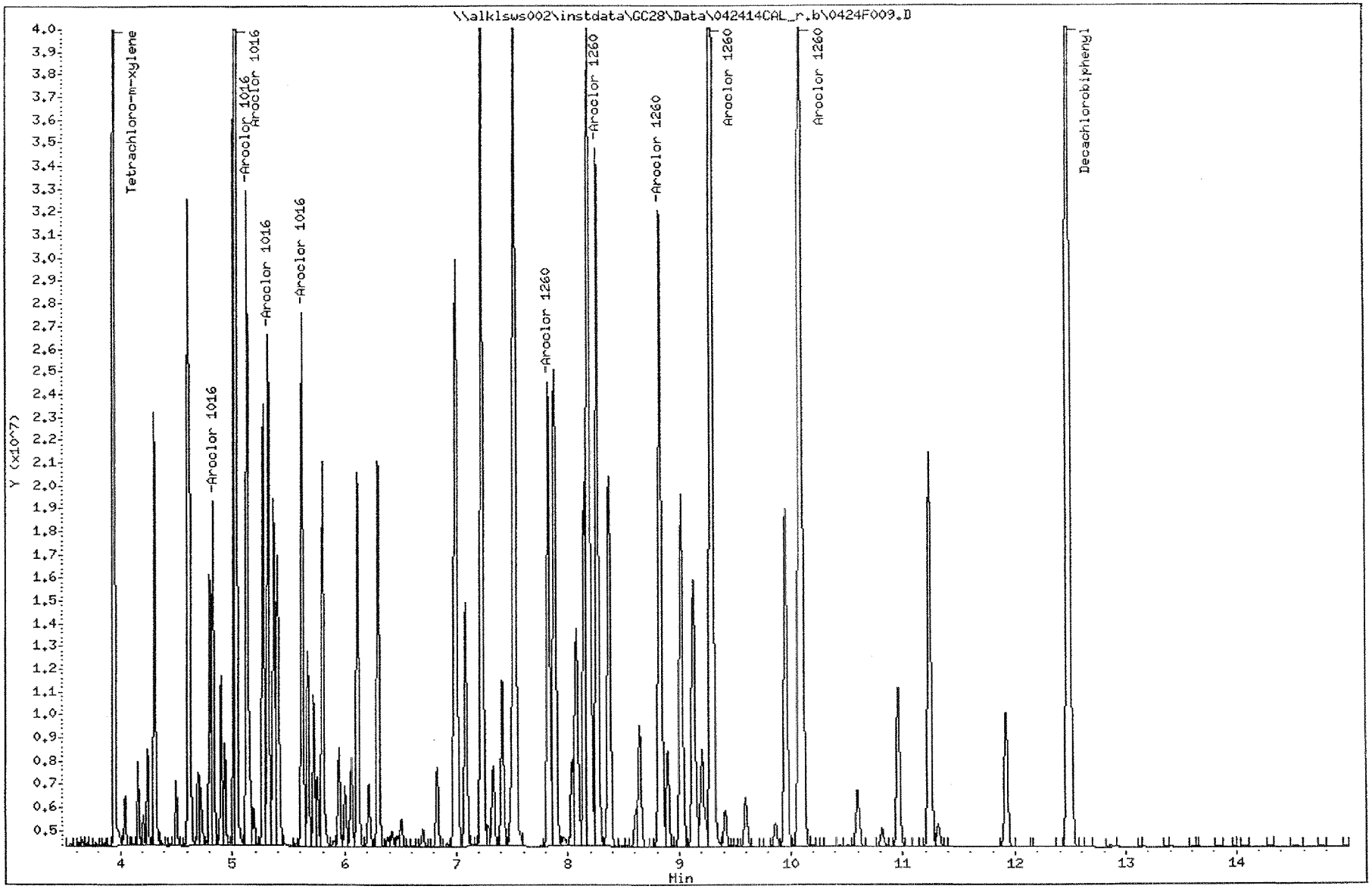
Data File: \\alklsws002\instdata\GC28\Data\042414CAL_r.b\0424F009.D
Date : 25-APR-2014 08:05
Client ID:
Sample Info: 1660 @ 200-2000ppb PCB6-31B

Instrument: GC28.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32



Data File: \\alklsws002\instdata\GC28\Data\042414CAL.b\0424F010.D
Report Date: 26-Apr-2014 01:13

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC28\Data\042414CAL.b\0424F010.D
Sample #2 : \\alklsws002\instdata\GC28\Data\042414CAL_r.b\0424F010.D
Inj Date : 25-APR-2014 08:28
Sample Info: 1660 @ 500-5000ppb PCB6-31A
Misc Info :
Cal Date : 26-APR-2014 01:07
Operator : JMSmith
Inst ID : GC28.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC28\Data\042414CAL.b\042414_f.m
Method #2 : \\alklsws002\instdata\GC28\Data\042414CAL_r.b\0424I4_r.m
Sub List #1 : 1660.SUB
Sub List #2 : 1660.SUB
Col #1 Phase : DB-XLB
Col #2 Phase : DB-35MS

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Tetrachloro-m-xylene	4.535	3.945	54912011	327416248	476	542		100.00
Aroclor 1016	4.835	4.835	9619014	42438674	4000	4360	80.00- 120.00	100.00
	5.838	5.035	24981716	147394906	4320	4610	207.77- 311.65	259.71
	5.878	5.132	15947966	94292834	4190	4410	132.64- 198.96	165.80
	6.238	5.315	11697639	70269669	4050	4220	97.29- 145.93	121.61
	6.445	5.619	11868617	75556414	4160	4420	98.71- 148.06	123.39
		Average of Peak Amounts =			4140	4400		
Aroclor 1260	8.435	7.829	26138986	83501761	4060	4770	80.00- 120.00	100.00
	9.735	8.269	19963562	126250539	4280	4340	61.10- 91.65	76.37
	10.198	8.832	21630140	130936332	4230	4460	66.20- 99.30	82.75
	10.888	9.299	50728578	337393118	4400	4730	155.26- 232.89	194.07
	11.535	10.095	32761902	248558898	4380	4620	100.27- 150.40	125.34
		Average of Peak Amounts =			4270	4580		
Decachlorobiphenyl	14.178	12.489	47379245	295276508	418	416		100.00

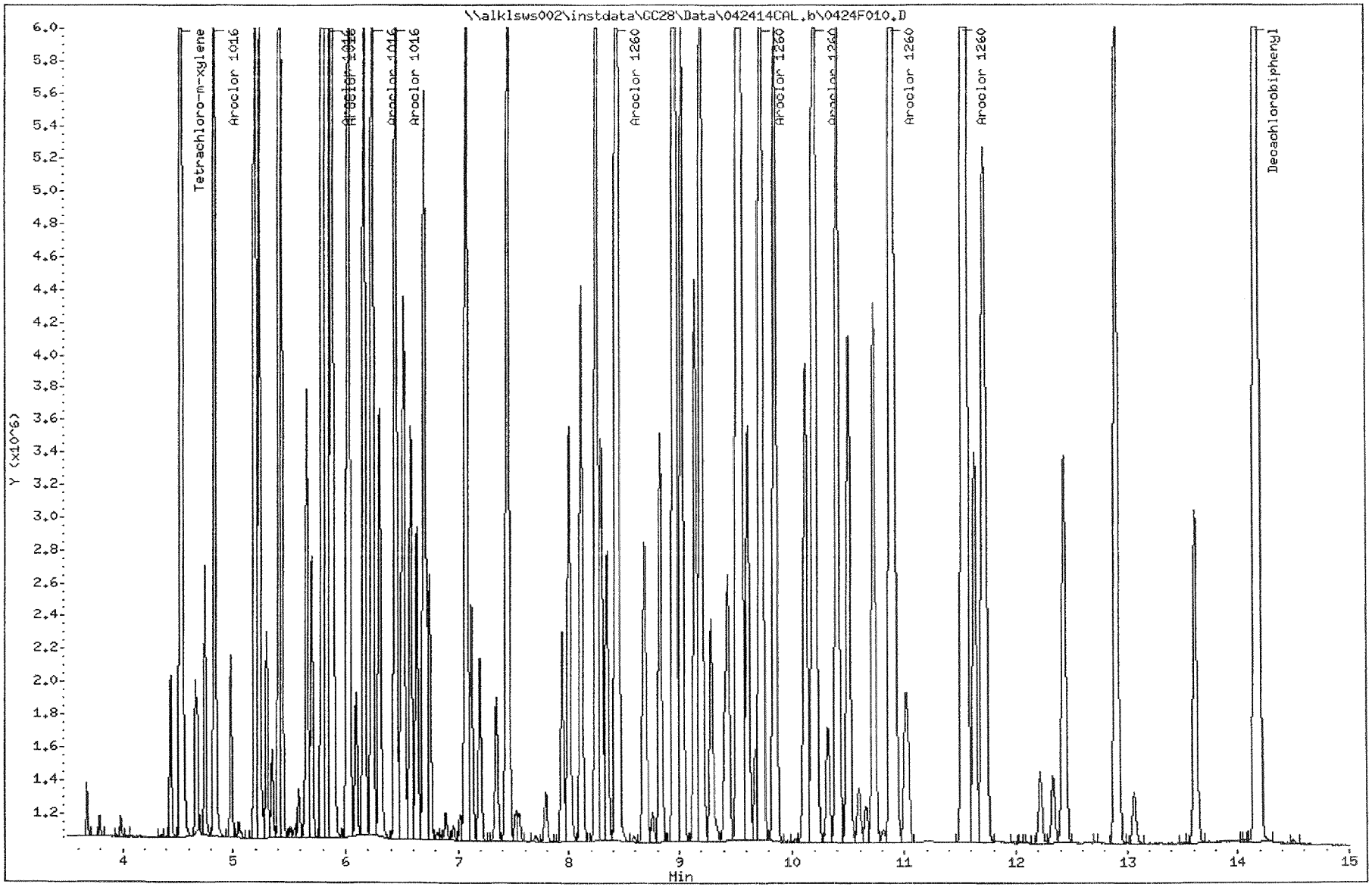
Data File: \\alklsws002\instdata\GC28\Data\042414CAL.b\0424F010.D
Date : 25-APR-2014 08:28
Client ID:
Sample Info: 1660 @ 500-5000ppb PCB6-31A

Instrument: GC28.i

Operator: JMSmith

Column phase: DB-XLB

Column diameter: 0.32



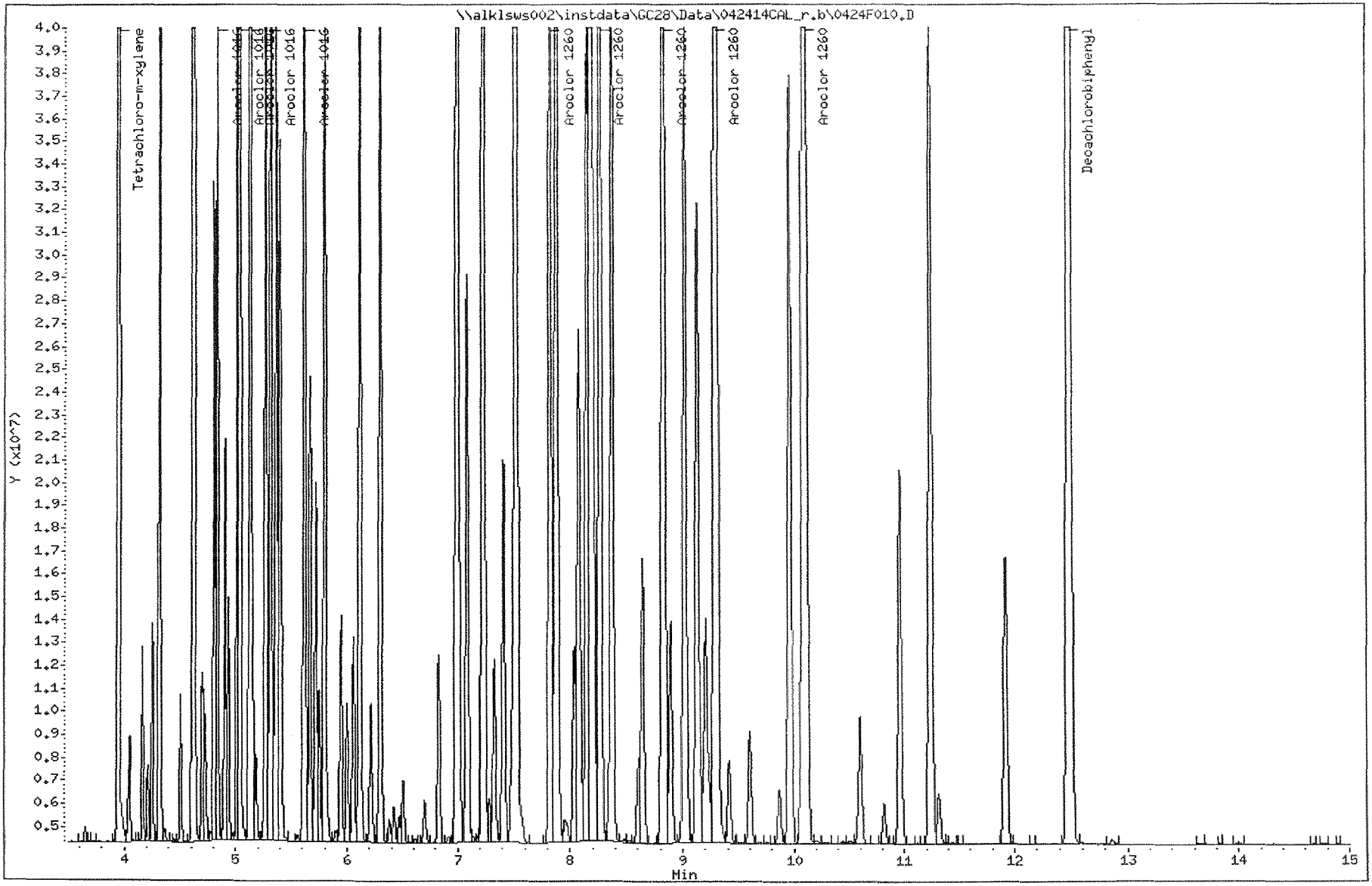
Data File: \\alklsws002\instdata\GC28\Data\042414CAL_r.b\0424F010.D
Date : 25-APR-2014 08:28
Client ID:
Sample Info: 1660 @ 500-5000ppb PCB6-31A

Instrument: GC28.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32



Data File: \\alklsws002\instdata\GC28\Data\042414CAL.b\0424F011.D
Report Date: 26-Apr-2014 01:13

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC28\Data\042414CAL.b\0424F011.D
Sample #2 : \\alklsws002\instdata\GC28\Data\042414CAL_r.b\0424F011.D
Inj Date : 25-APR-2014 08:51
Sample Info: 2154 @ 50-25ppb PCB6-39G
Misc Info :
Cal Date : 26-APR-2014 01:07
Operator : JMSmith
Inst ID : GC28.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC28\Data\042414CAL.b\042414_f.m
Method #2 : \\alklsws002\instdata\GC28\Data\042414CAL_r.b\042414_r.m
Sub List #1 : 2154.sub
Sub List #2 : 2154.sub
Col #1 Phase : DB-XLB
Col #2 Phase : DB-35MS

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1221	4.683	4.163	48198	389165	57.8	60.3	80.00- 120.00	100.00(M)
	4.749	4.250	55618	250229	64.6	59.3	78.03- 117.04	115.39(M)
	4.836	4.313	190134	1055220	63.0	65.2	277.87- 416.81	394.49(M)
		Average of Peak Amounts =			61.8	61.6		
Aroclor 1254	7.069	6.383	153617	435242	30.4	31.4	80.00- 120.00	100.00
	7.119	6.830	73883	664488	28.9	27.2	42.90- 64.35	48.10
	7.446	6.986	250685	1479229	31.5	28.6	126.26- 189.40	163.19
	7.546	7.330	85604	1012487	31.1	29.4	43.50- 65.25	55.73
	9.209	7.953	124739	528851	28.5	25.7	76.90- 115.35	81.20
		Average of Peak Amounts =			30.1	28.5		

QC Flag Legend

M - Compound response manually integrated.

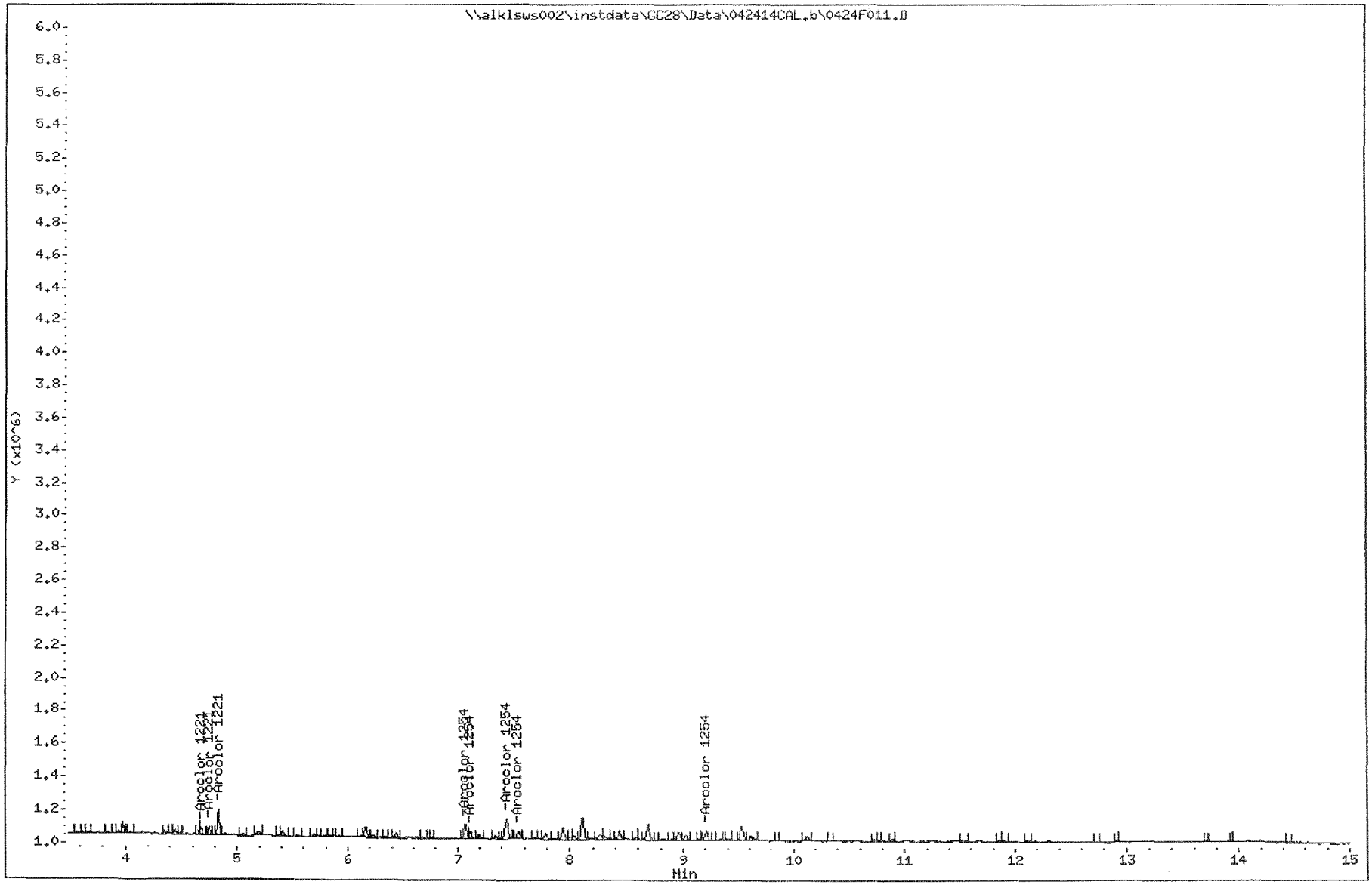
Data File: \\alklsws002\instdata\GC28\Data\042414CAL.b\0424F011.D
Date : 25-APR-2014 08:51
Client ID:
Sample Info: 2154 @ 50-25ppb PCB6-39G

Instrument: GC28.i

Operator: JMSmith

Column phase: DB-XLB

Column diameter: 0.32



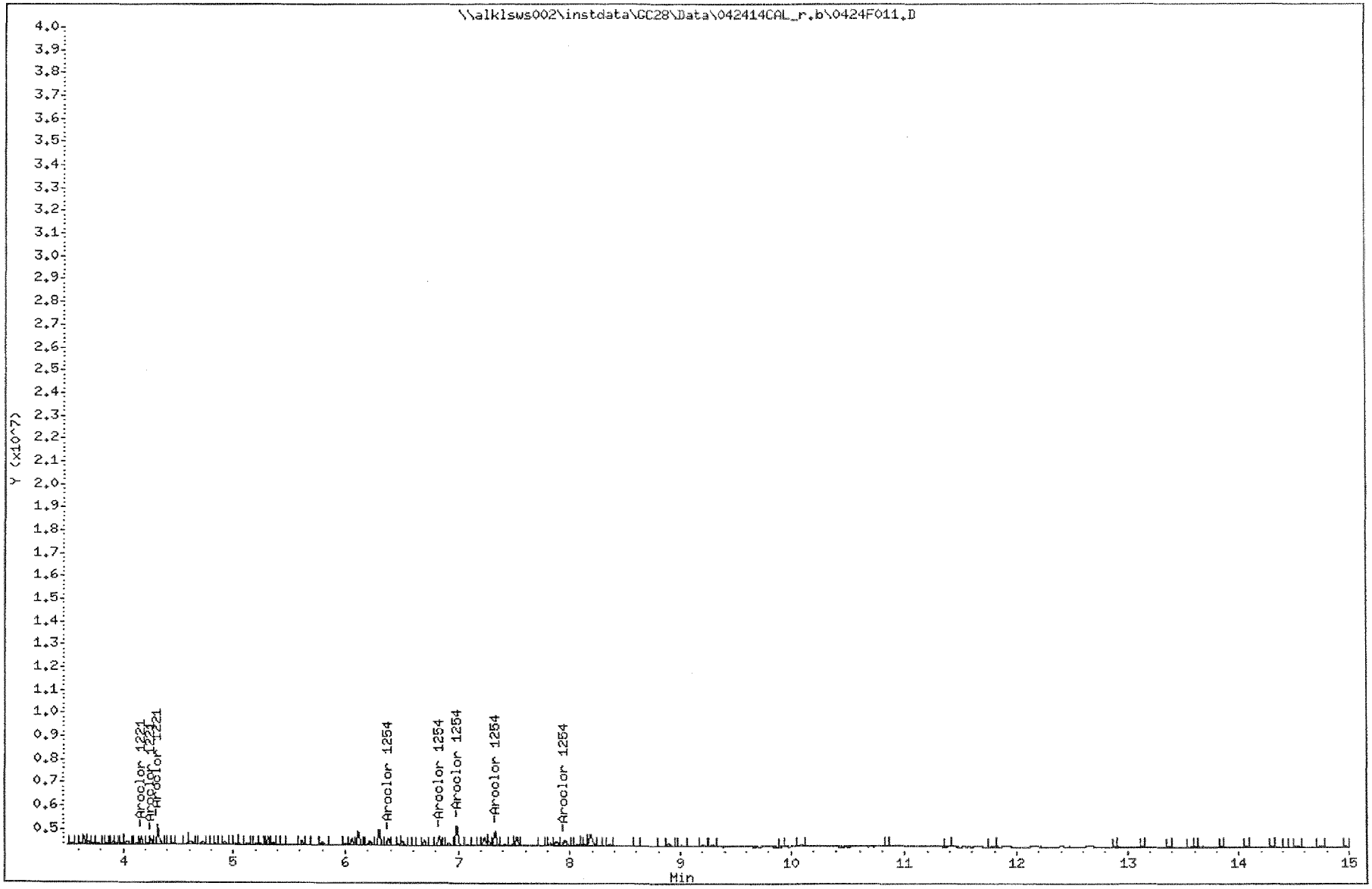
Data File: \\alklsws002\instdata\GC28\Data\042414CAL_r.b\0424F011.D
Date : 25-APR-2014 08:51
Client ID:
Sample Info: 2154 @ 50-25ppb PCB6-39G

Instrument: GC28.i

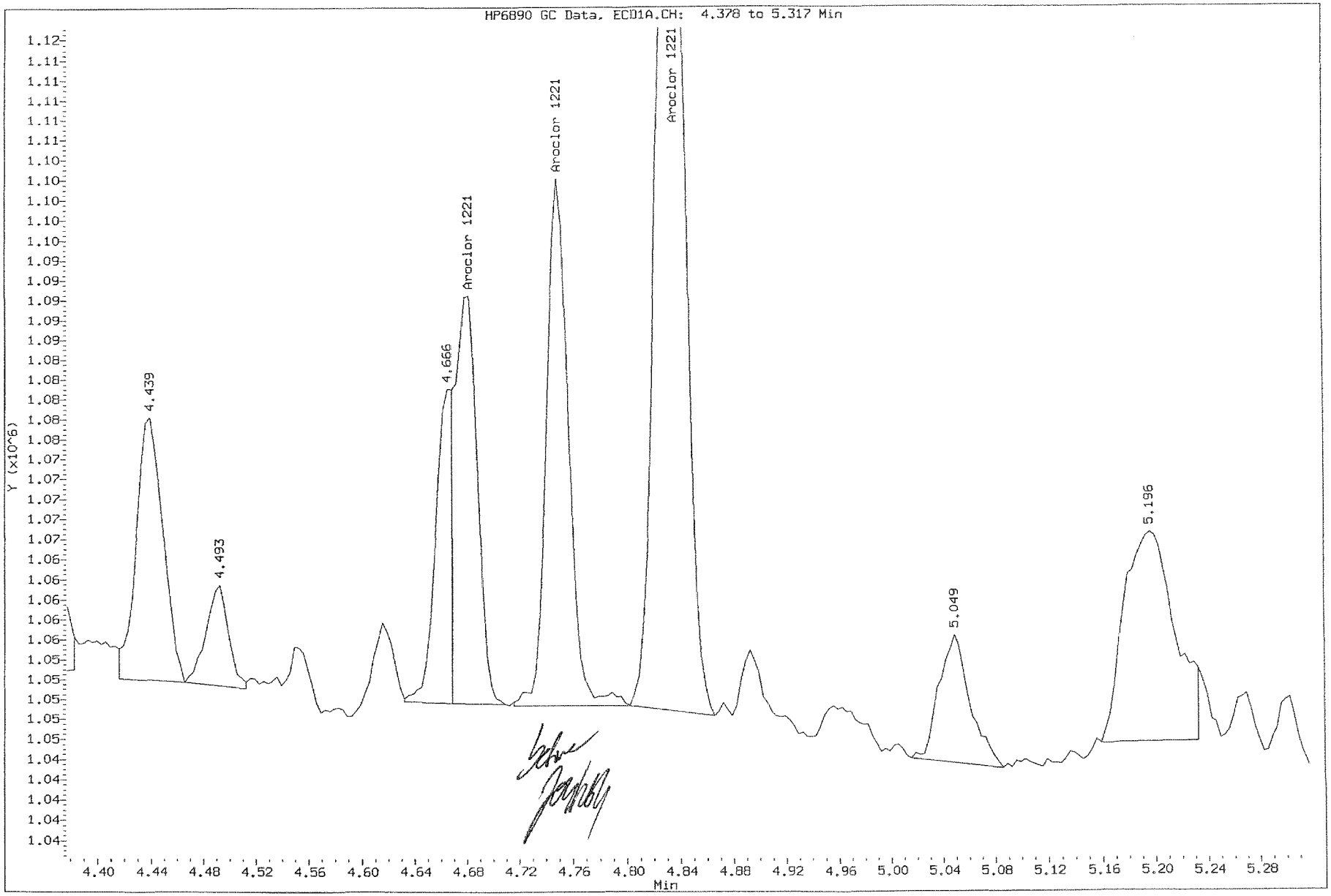
Operator: JHSmith

Column phase: DB-35MS

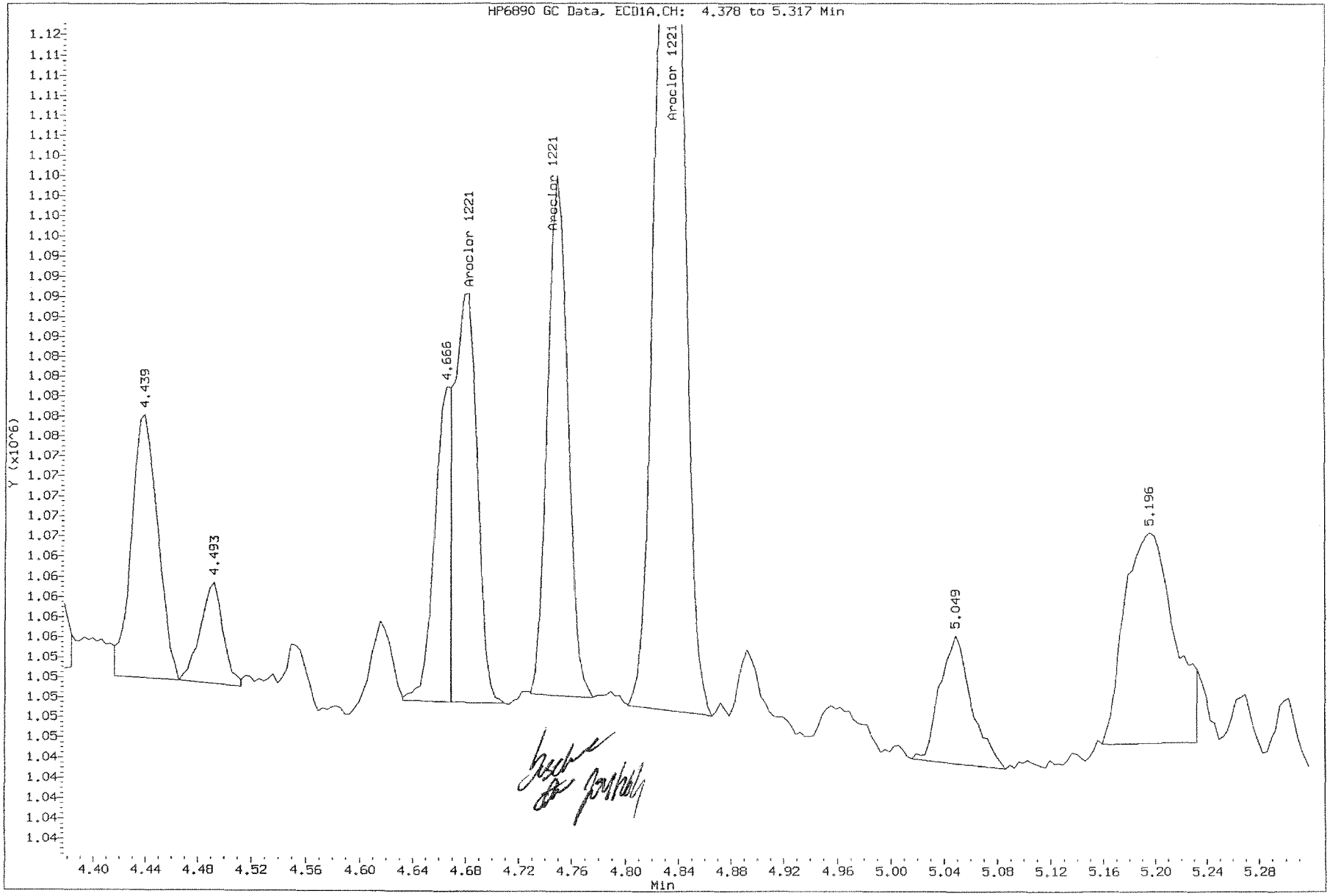
Column diameter: 0.32



Data File: \\alklsws002\instdata\GC28\Data\042414CAL.b\0424F011.D
Injection Date: 25-APR-2014 08:51
Instrument: GC28.i
Client Sample ID:



Data File: \\alklsws002\instdata\GC28\Data\042414CAL.b\0424F011.D
Injection Date: 25-APR-2014 08:51
Instrument: GC28.i
Client Sample ID:



Data File: \\alklsws002\instdata\GC28\Data\042414CAL.b\0424F012.D
Report Date: 26-Apr-2014 01:13

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC28\Data\042414CAL.b\0424F012.D
Sample #2 : \\alklsws002\instdata\GC28\Data\042414CAL_r.b\0424F012.D
Inj Date : 25-APR-2014 09:14
Sample Info: 2154 @ 100-50ppb PCB6-39F
Misc Info :
Cal Date : 26-APR-2014 01:07
Operator : JMSmith
Inst ID : GC28.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC28\Data\042414CAL.b\042414_f.m
Method #2 : \\alklsws002\instdata\GC28\Data\042414CAL_r.b\042414_r.m
Sub List #1 : 2154.sub
Sub List #2 : 2154.sub
Col #1 Phase : DB-XLB
Col #2 Phase : DB-35MS

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1221	4.681	4.164	89881	699027	108	108	80.00- 120.00	100.00
	4.751	4.251	92266	460449	107	109	78.03- 117.04	102.65
	4.834	4.314	350473	1781443	116	110	277.87- 416.81	389.93
		Average of Peak Amounts =			110	109		
Aroclor 1254	7.071	6.381	280255	754609	55.4	54.5	80.00- 120.00	100.00
	7.121	6.827	141489	1242370	55.3	50.9	42.90- 64.35	50.49
	7.444	6.987	443754	2694872	55.7	52.1	126.26- 189.40	158.34
	7.547	7.331	152915	1823984	55.5	53.0	43.50- 65.25	54.56
	9.211	7.954	220631	998889	50.4	48.6	76.90- 115.35	78.73
		Average of Peak Amounts =			54.5	51.8		

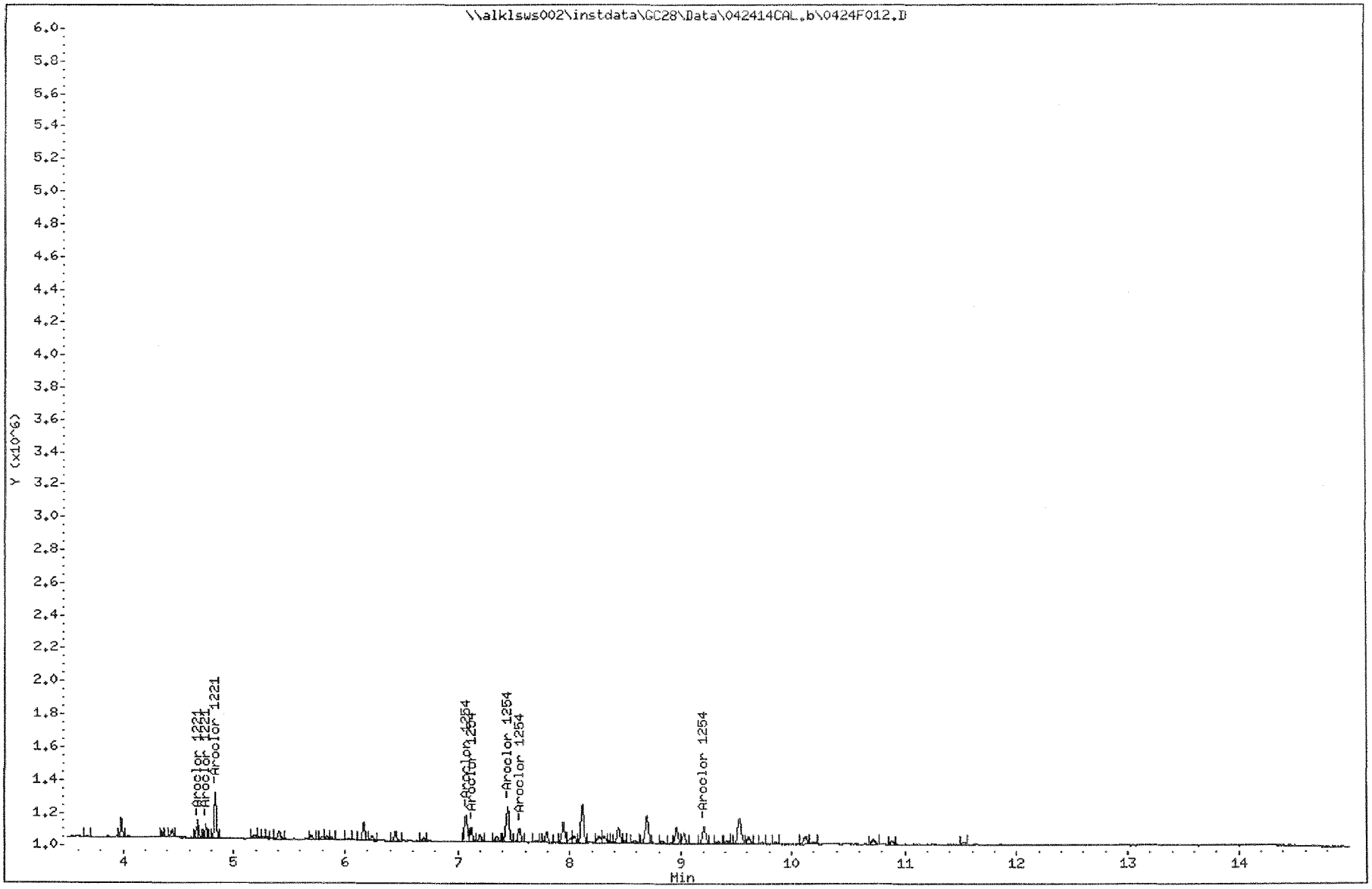
Data File: \\alklsws002\instdata\GC28\Data\042414CAL.b\0424F012.D
Date : 25-APR-2014 09:14
Client ID:
Sample Info: 2154 @ 100-50ppb PCB6-39F

Instrument: GC28.i

Operator: JHSmith

Column phase: DB-XLB

Column diameter: 0.32

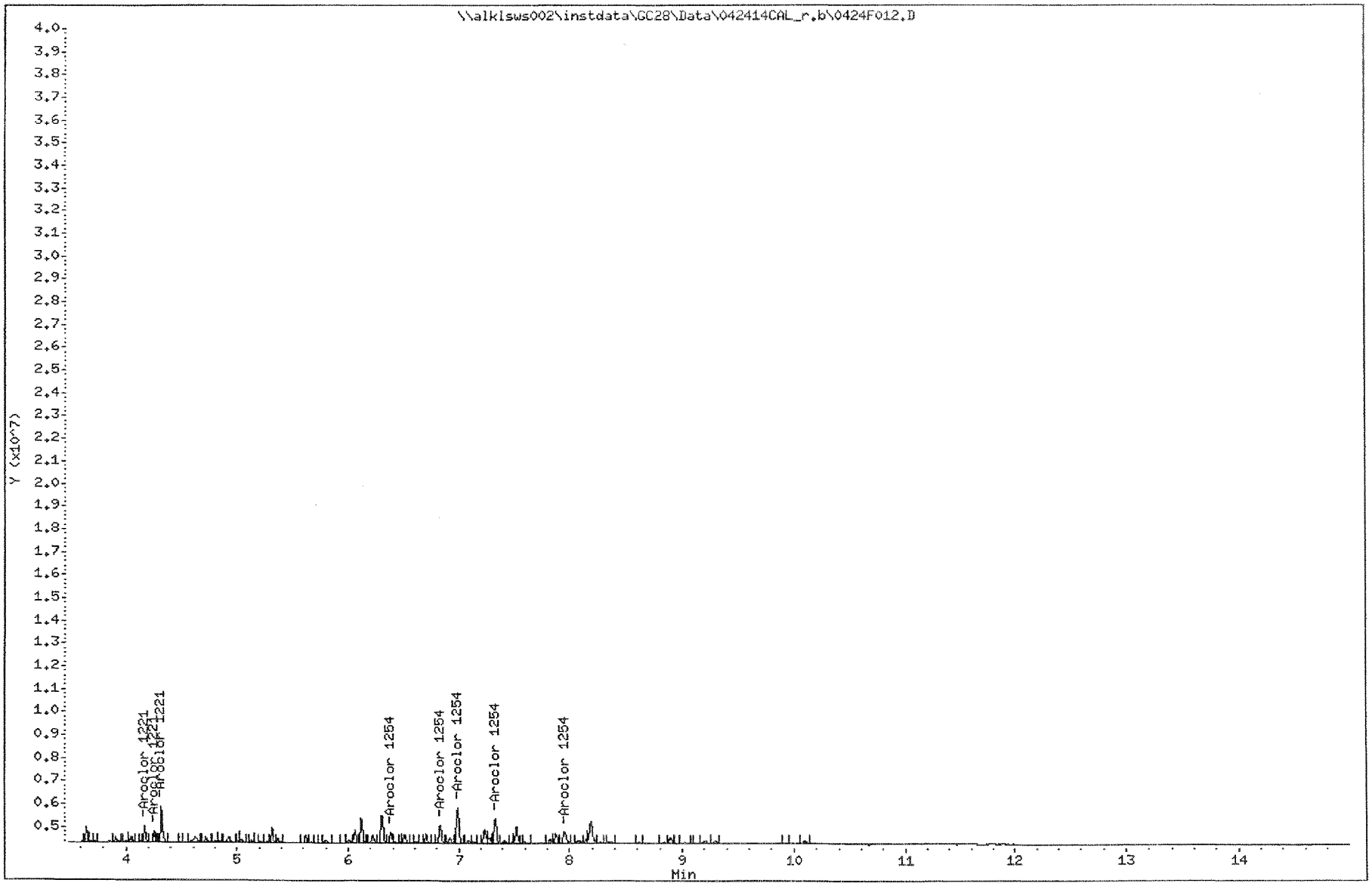


Data File: \\alklsws002\instdata\GC28\Data\042414CAL_r.b\0424F012.D
Date : 25-APR-2014 09:14
Client ID:
Sample Info: 2154 @ 100-50ppb PCB6-39F

Column phase: DB-35MS

Instrument: GC28.i

Operator: JMSmith
Column diameter: 0.32



Data File: \\alklsws002\instdata\GC28\Data\042414CAL.b\0424F013.D
Report Date: 26-Apr-2014 01:13

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC28\Data\042414CAL.b\0424F013.D
Sample #2 : \\alklsws002\instdata\GC28\Data\042414CAL_r.b\0424F013.D
Inj Date : 25-APR-2014 09:37
Sample Info: 2154 @ 1000-500ppb PCB6-39E
Misc Info :
Cal Date : 26-APR-2014 01:07
Operator : JMSmith
Inst ID : GC28.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC28\Data\042414CAL.b\042414_f.m
Method #2 : \\alklsws002\instdata\GC28\Data\042414CAL_r.b\042414_r.m
Sub List #1 : 2154.sub
Sub List #2 : 2154.sub
Col #1 Phase : DB-XLB
Col #2 Phase : DB-35MS

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1221	4.683	4.164	907144	6326515	1090	980	80.00- 120.00	100.00
	4.750	4.250	887574	4286826	1030	1020	78.03- 117.04	97.84
	4.837	4.314	3027242	15462358	1000	956	277.87- 416.81	333.71
		Average of Peak Amounts =			1040	985		
Aroclor 1254	7.070	6.384	2592782	6902864	512	499	80.00- 120.00	100.00
	7.120	6.830	1316625	12280921	515	503	42.90- 64.35	50.78
	7.447	6.987	4040054	25429290	507	492	126.26- 189.40	155.82
	7.547	7.330	1404296	16991505	510	494	43.50- 65.25	54.16
	9.213	7.954	2244485	10417861	513	507	76.90- 115.35	86.57
		Average of Peak Amounts =			511	499		

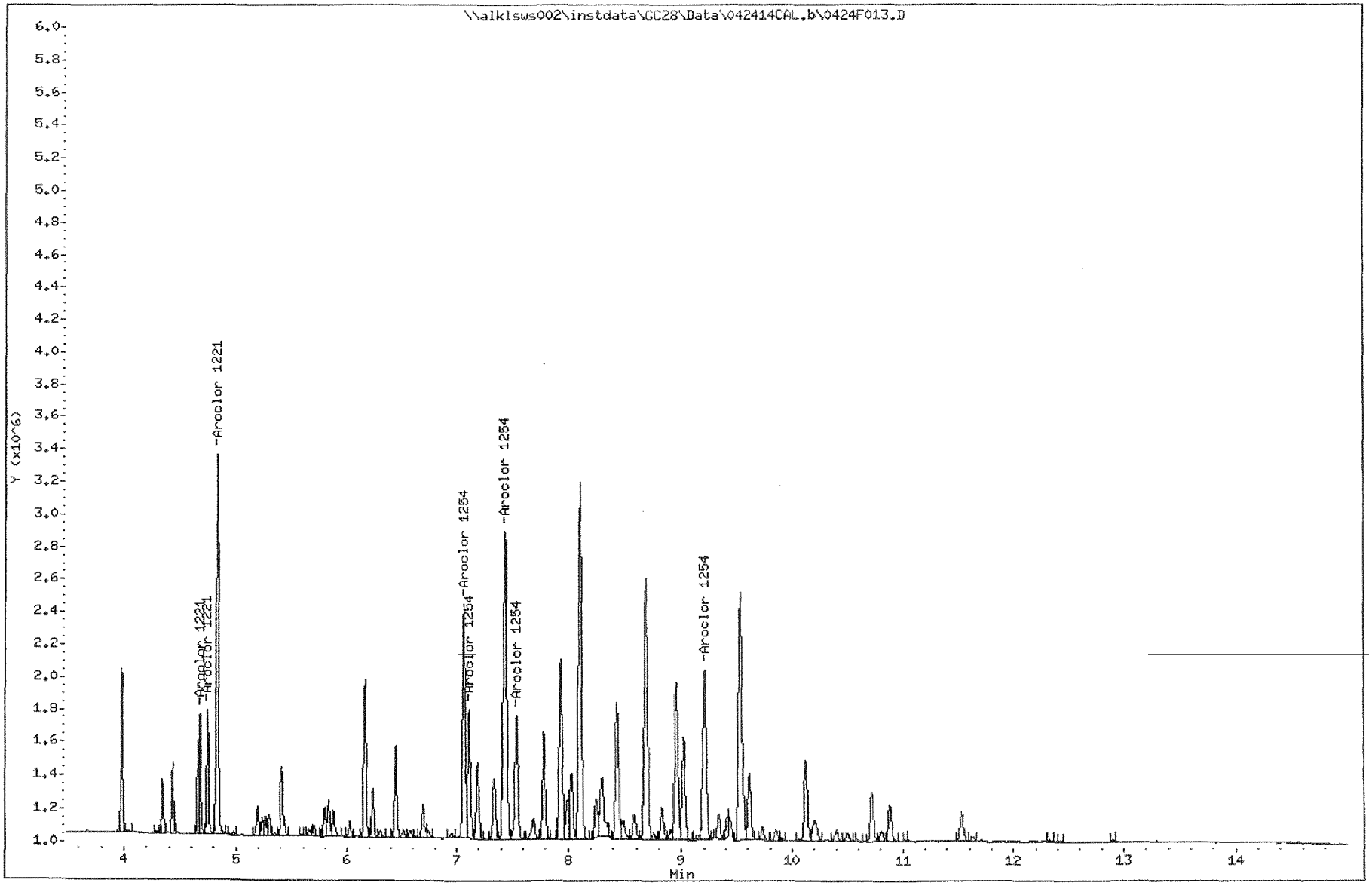
Data File: \\alklsws002\instdata\GC28\Data\042414CAL.b\0424F013.D
Date : 25-APR-2014 09:37
Client ID:
Sample Info: 2154 @ 1000-500ppb PCB6-39E

Instrument: GC28.i

Operator: JMSmith

Column phase: DB-XLB

Column diameter: 0.32

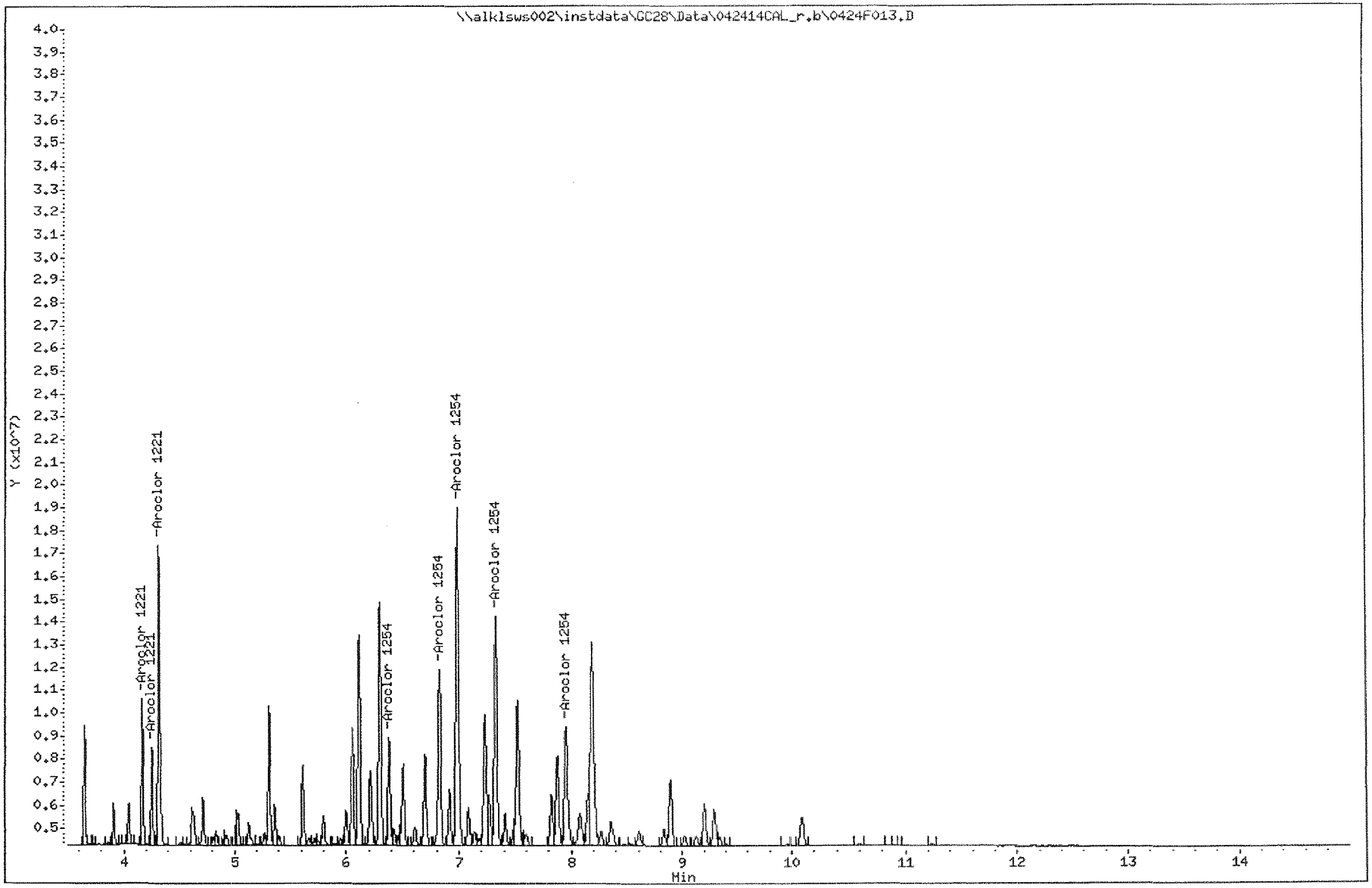


Data File: \\alklsws002\instdata\GC28\Data\042414CAL_r.b\0424F013.D
Date : 25-APR-2014 09:37
Client ID:
Sample Info: 2154 @ 1000-500ppb PCB6-39E

Column phase: DB-35MS

Instrument: GC28.i

Operator: JMSmith
Column diameter: 0.32



Data File: \\alklsws002\instdata\GC28\Data\042414CAL.b\0424F014.D
Report Date: 26-Apr-2014 01:13

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC28\Data\042414CAL.b\0424F014.D
Sample #2 : \\alklsws002\instdata\GC28\Data\042414CAL_r.b\0424F014.D
Inj Date : 25-APR-2014 10:00
Sample Info: 2154 @ 2000-1000ppb PCB6-39D
Misc Info :
Cal Date : 26-APR-2014 01:07
Operator : JMSmith
Inst ID : GC28.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC28\Data\042414CAL.b\042414_f.m
Method #2 : \\alklsws002\instdata\GC28\Data\042414CAL_r.b\0424I4_r.m
Sub List #1 : 2154.sub
Sub List #2 : 2154.sub
Col #1 Phase : DB-XLB
Col #2 Phase : DB-35MS

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1221	4.681	4.165	1573249	12094145	1890	1870	80.00- 120.00	100.00
	4.751	4.252	1608814	8062181	1870	1910	78.03- 117.04	102.26
	4.835	4.315	5501173	29432363	1820	1820	277.87- 416.81	349.67
		Average of Peak Amounts =			1860	1870		
Aroclor 1254	7.071	6.382	4715885	12690465	932	917	80.00- 120.00	100.00
	7.121	6.832	2388879	23428466	934	959	42.90- 64.35	50.66
	7.445	6.988	7245655	48581901	910	940	126.26- 189.40	153.64
	7.548	7.332	2515134	32003164	913	931	43.50- 65.25	53.33
	9.215	7.955	4190545	19992932	957	973	76.90- 115.35	88.86
		Average of Peak Amounts =			929	944		

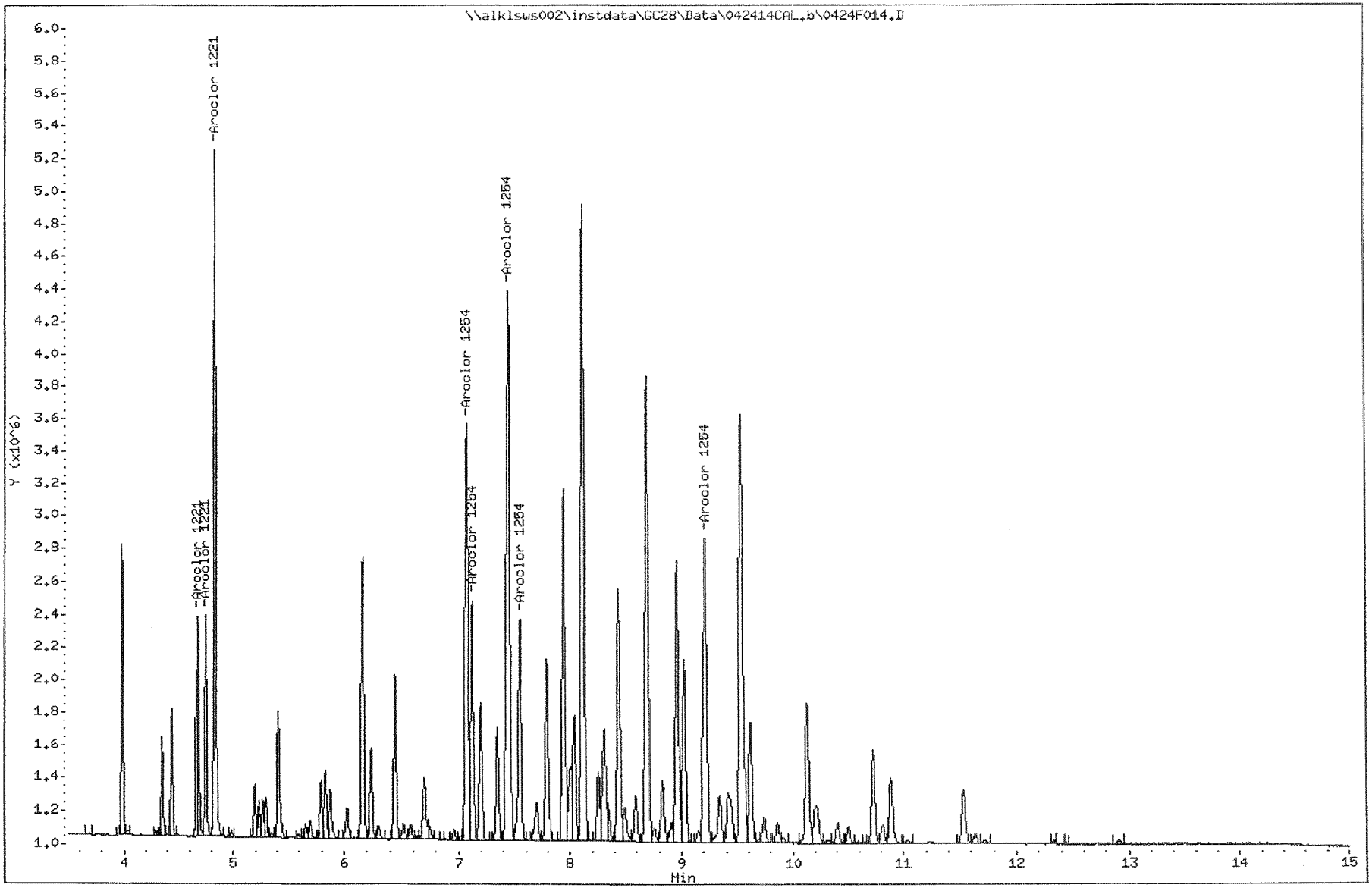
Data File: \\alklsws002\instdata\GC28\Data\042414CAL.b\0424F014.D
Date : 25-APR-2014 10:00
Client ID:
Sample Info: 2154 @ 2000-1000ppb PCB6-39D

Instrument: GC28.i

Operator: JMSmith

Column phase: DB-XLB

Column diameter: 0.32



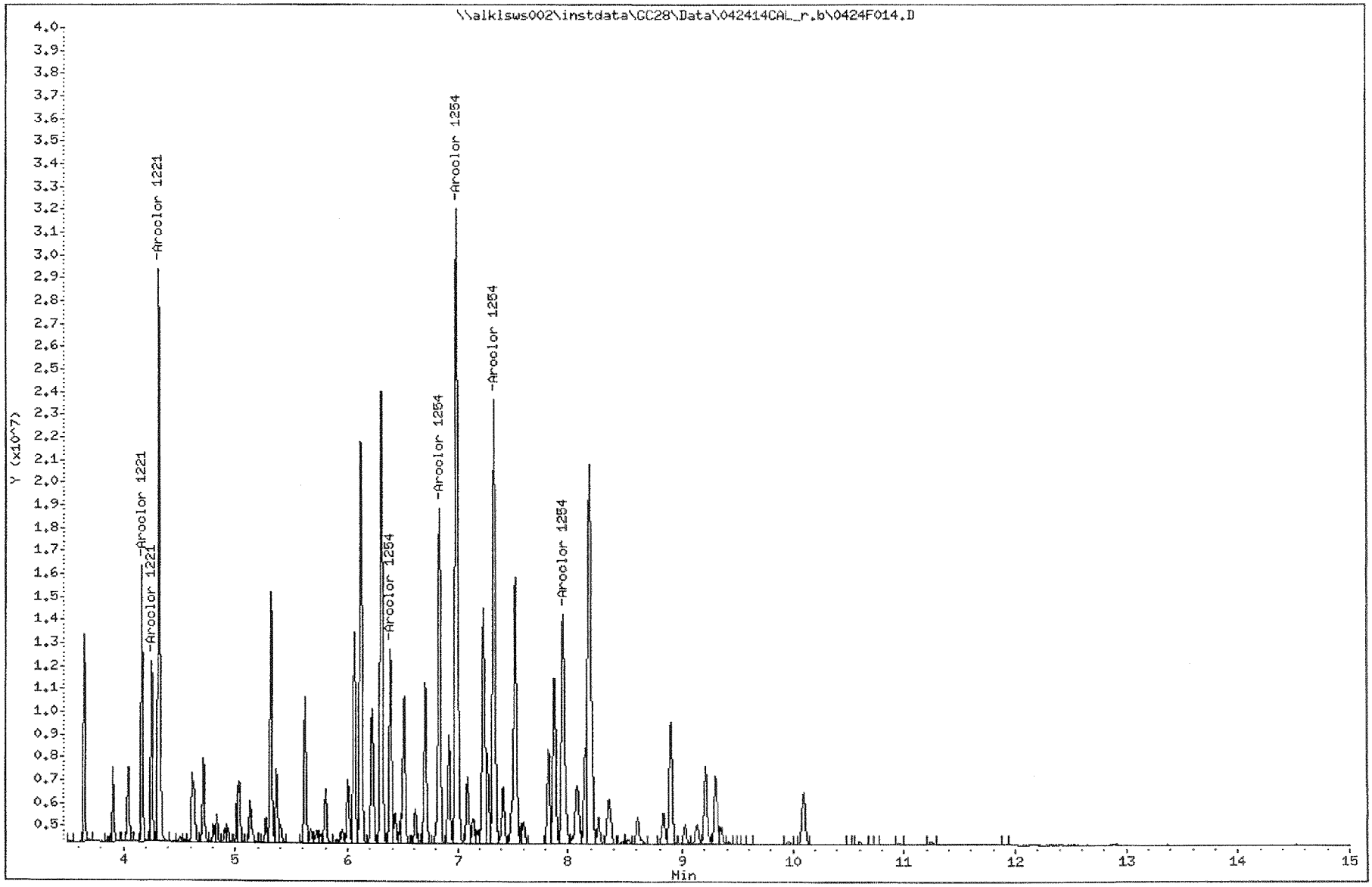
Data File: \\alklsws002\instdata\GC28\Data\042414CAL_r.b\0424F014.D
Date : 25-APR-2014 10:00
Client ID:
Sample Info: 2154 @ 2000-1000ppb PCB6-39D

Instrument: GC28.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32



Data File: \\alklsws002\instdata\GC28\Data\042414CAL.b\0424F015.D
Report Date: 26-Apr-2014 01:13

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC28\Data\042414CAL.b\0424F015.D
Sample #2 : \\alklsws002\instdata\GC28\Data\042414CAL_r.b\0424F015.D
Inj Date : 25-APR-2014 10:23
Sample Info: 2154 @ 4000-2000ppb PCB6-39C
Misc Info :
Cal Date : 26-APR-2014 01:07
Operator : JMSmith
Inst ID : GC28.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC28\Data\042414CAL.b\042414_f.m
Method #2 : \\alklsws002\instdata\GC28\Data\042414CAL_r.b\042414_r.m
Sub List #1 : 2154.sub
Sub List #2 : 2154.sub
Col #1 Phase : DB-XLB
Col #2 Phase : DB-35MS

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1221	4.682	4.166	3038994	23827260	3640	3690	80.00- 120.00	100.00
	4.752	4.252	3065281	15448472	3560	3660	78.03- 117.04	100.86
	4.835	4.316	10572249	57535110	3500	3560	277.87- 416.81	347.89
		Average of Peak Amounts =			3570	3640		
Aroclor 1254	7.072	6.382	9195102	24764373	1820	1790	80.00- 120.00	100.00
	7.122	6.832	4655567	47620208	1820	1950	42.90- 64.35	50.63
	7.445	6.989	14152122	98779866	1780	1910	126.26- 189.40	153.91
	7.549	7.332	4958681	64346873	1800	1870	43.50- 65.25	53.93
	9.212	7.956	8469946	41410197	1930	2020	76.90- 115.35	92.11
		Average of Peak Amounts =			1830	1910		

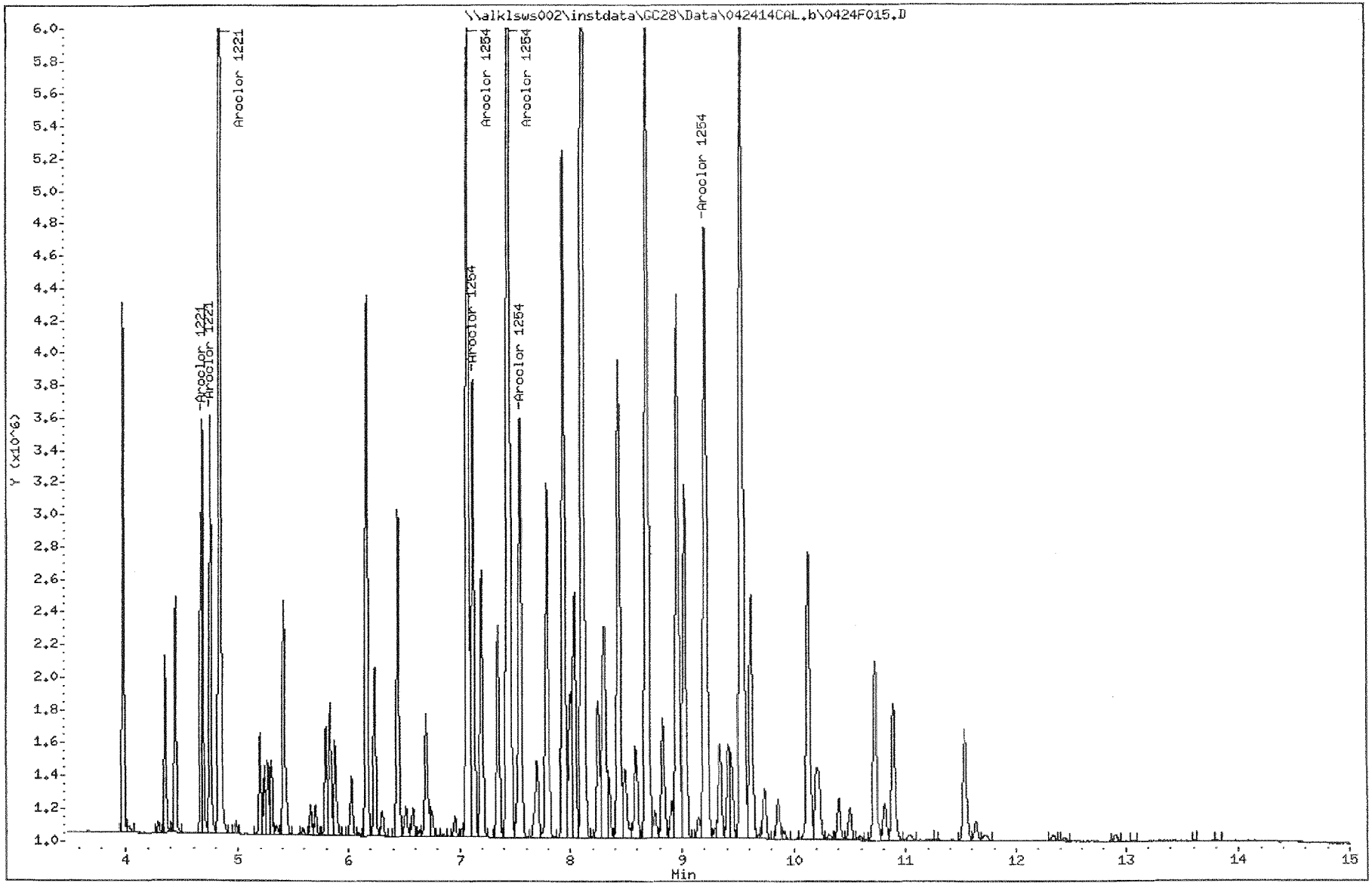
Data File: \\alklsws002\instdata\GC28\Data\042414CAL.b\0424F015.D
Date : 25-APR-2014 10:23
Client ID:
Sample Info: 2154 @ 4000-2000ppb PCB6-39C

Instrument: GC28.i

Operator: JMSmith

Column phase: DB-XLB

Column diameter: 0.32



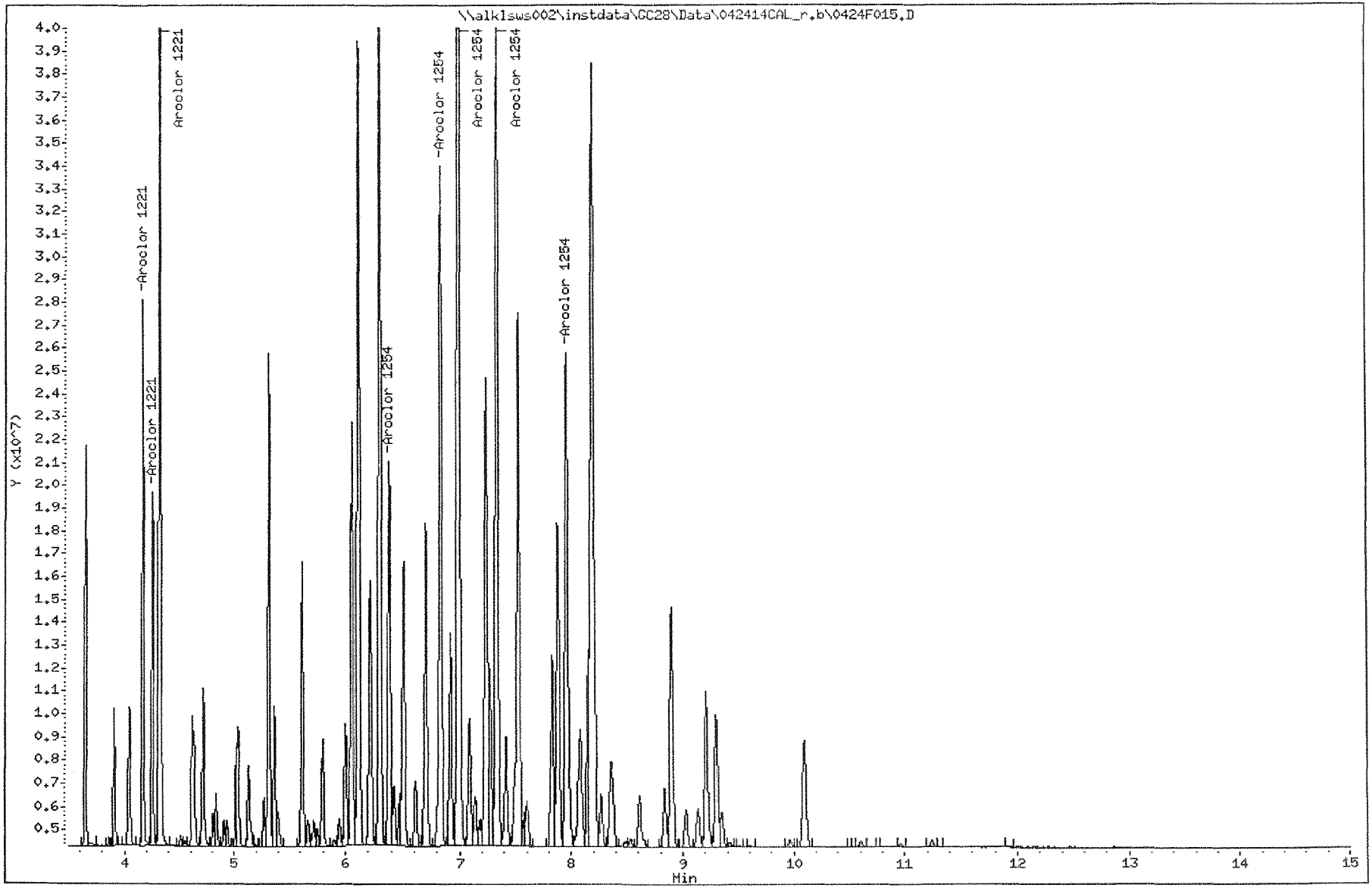
Data File: \\alklsws002\instdata\GC28\Data\042414CAL_r.b\0424F015.D
Date : 25-APR-2014 10:23
Client ID:
Sample Info: 2154 @ 4000-2000ppb PCB6-39C

Instrument: GC28.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32



Data File: \\alklsws002\instdata\GC28\Data\042414CAL.b\0424F016.D
Report Date: 26-Apr-2014 01:13

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC28\Data\042414CAL.b\0424F016.D
Sample #2 : \\alklsws002\instdata\GC28\Data\042414CAL_r.b\0424F016.D
Inj Date : 25-APR-2014 10:46
Sample Info: 2154 @ 10000-5000ppb PCB6-39B
Misc Info :
Cal Date : 26-APR-2014 01:07
Operator : JMSmith
Inst ID : GC28.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC28\Data\042414CAL.b\042414_f.m
Method #2 : \\alklsws002\instdata\GC28\Data\042414CAL_r.b\042414_r.m
Sub List #1 : 2154.sub
Sub List #2 : 2154.sub
Col #1 Phase : DB-XLB
Col #2 Phase : DB-35MS

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1221	4.684	4.164	6873660	56138894	8240	8700	80.00- 120.00	100.00(M)
	4.751	4.251	6704093	35276641	7790	8360	78.03- 117.04	97.53(M)
	4.838	4.314	23875063	135577063	7910	8380	277.87- 416.81	347.34(M)
		Average of Peak Amounts =			7980	8480		
Aroclor 1254	7.074	6.384	20565588	58343245	4060	4220	80.00- 120.00	100.00
	7.124	6.831	11027631	116463170	4310	4770	42.90- 64.35	53.62
	7.448	6.988	32458579	241202036	4070	4670	126.26- 189.40	157.83
	7.548	7.331	11182910	155905511	4060	4530	43.50- 65.25	54.38
	9.214	7.954	19768467	102931169	4520	5010	76.90- 115.35	96.12
		Average of Peak Amounts =			4200	4640		

QC Flag Legend

M - Compound response manually integrated.

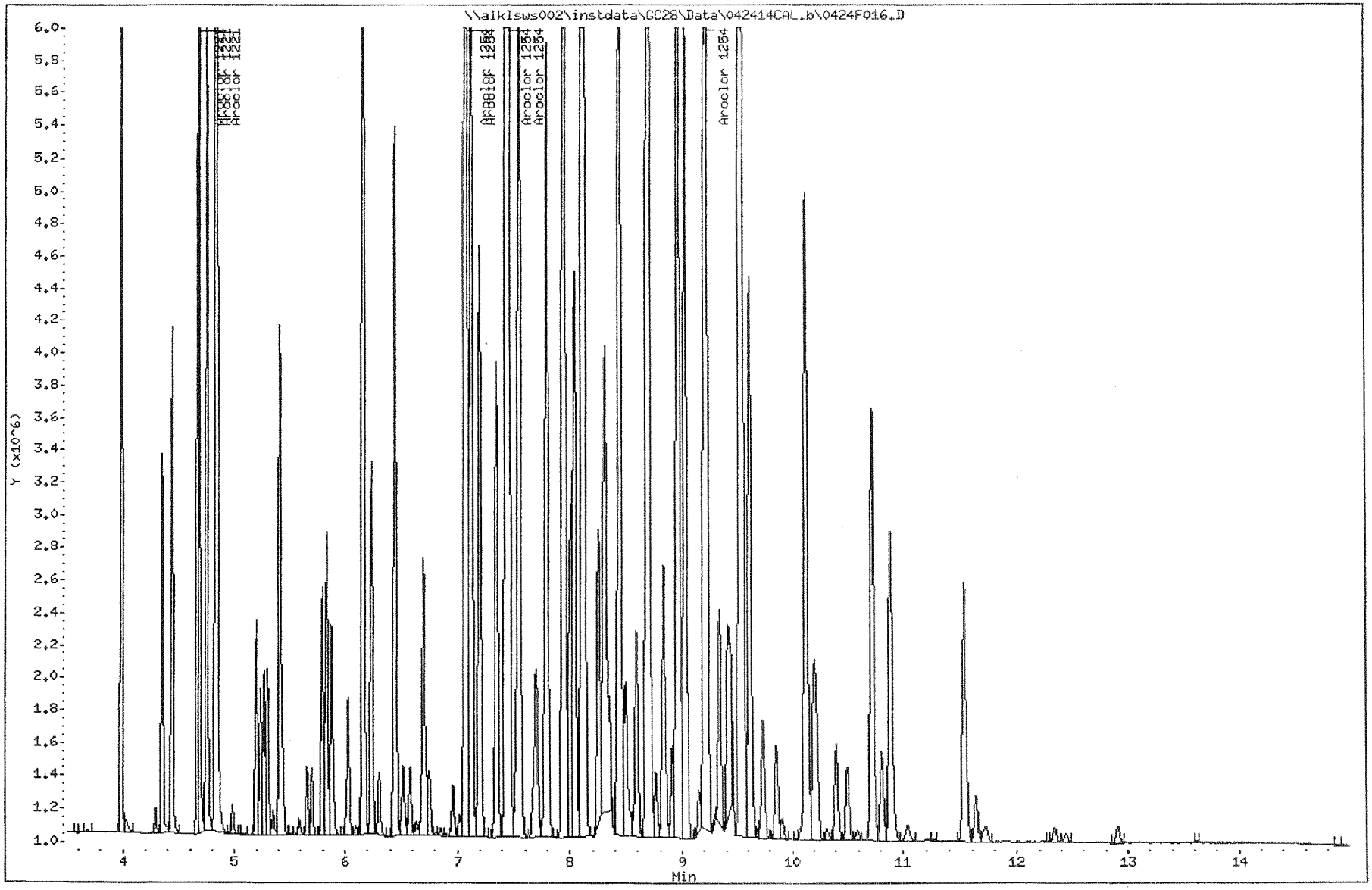
Data File: \\alklsws002\instdata\GC28\Data\042414CAL.b\0424F016.D
Date : 25-APR-2014 10:46
Client ID:
Sample Info: 2154 @ 10000-5000ppb PCB6-39B

Instrument: GC28.i

Operator: JMSmith

Column phase: DB-XLB

Column diameter: 0.32

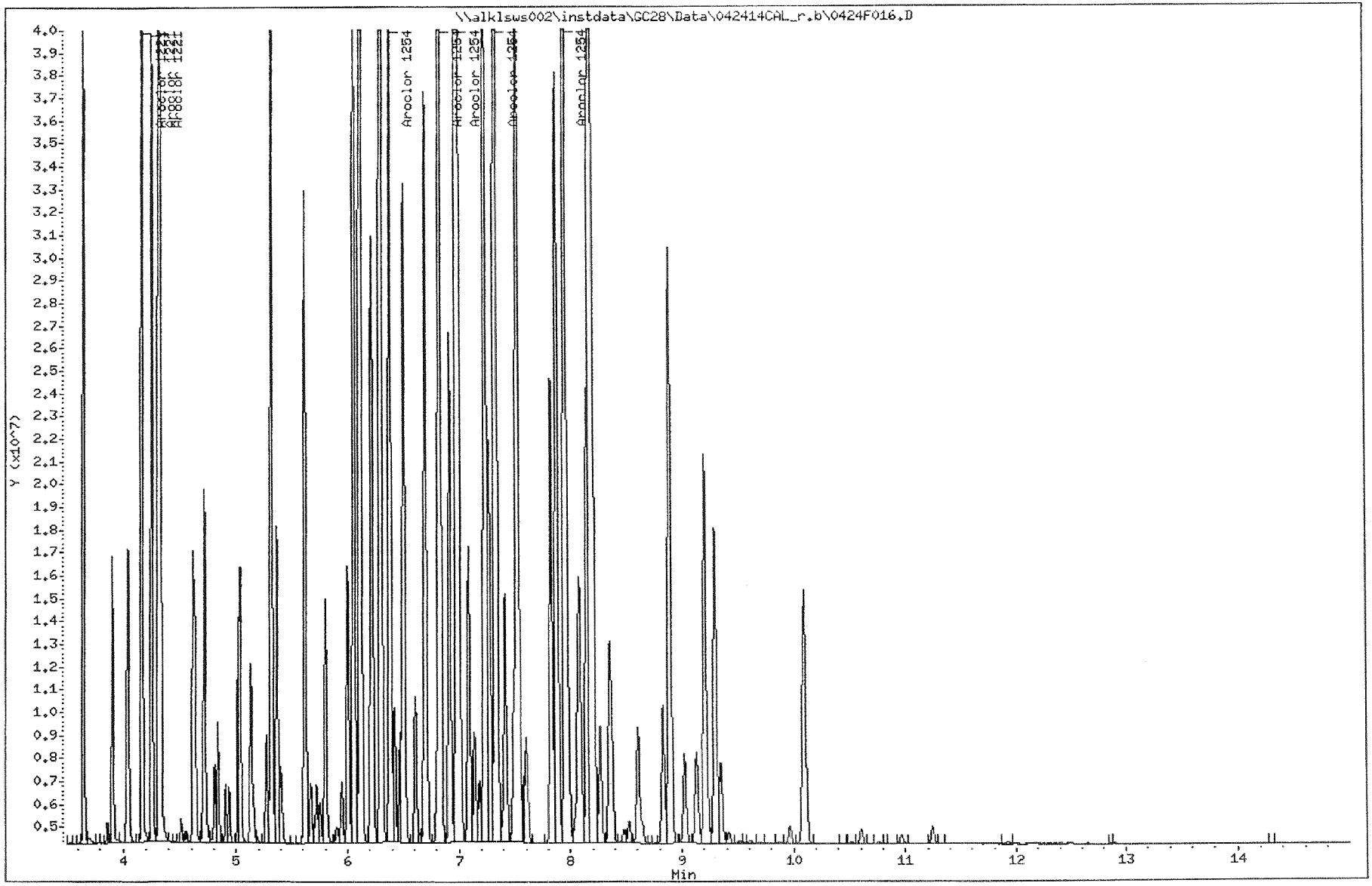


Data File: \\alklsws002\instdata\GC28\Data\042414CAL_r.b\0424F016.D
Date : 25-APR-2014 10:46
Client ID:
Sample Info: 2154 @ 10000-5000ppb PCB6-39B

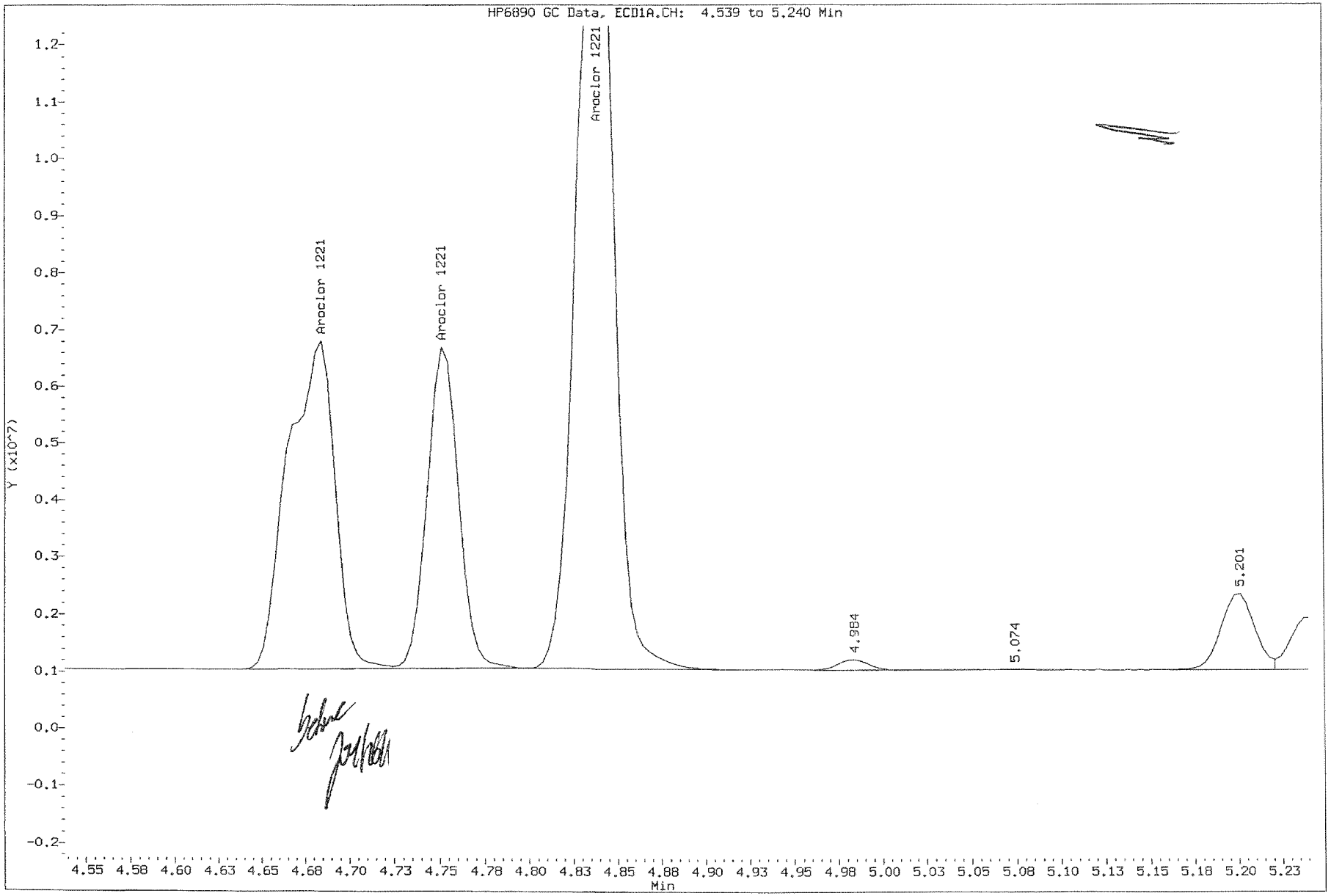
Column phase: DB-35MS

Instrument: GC28.i

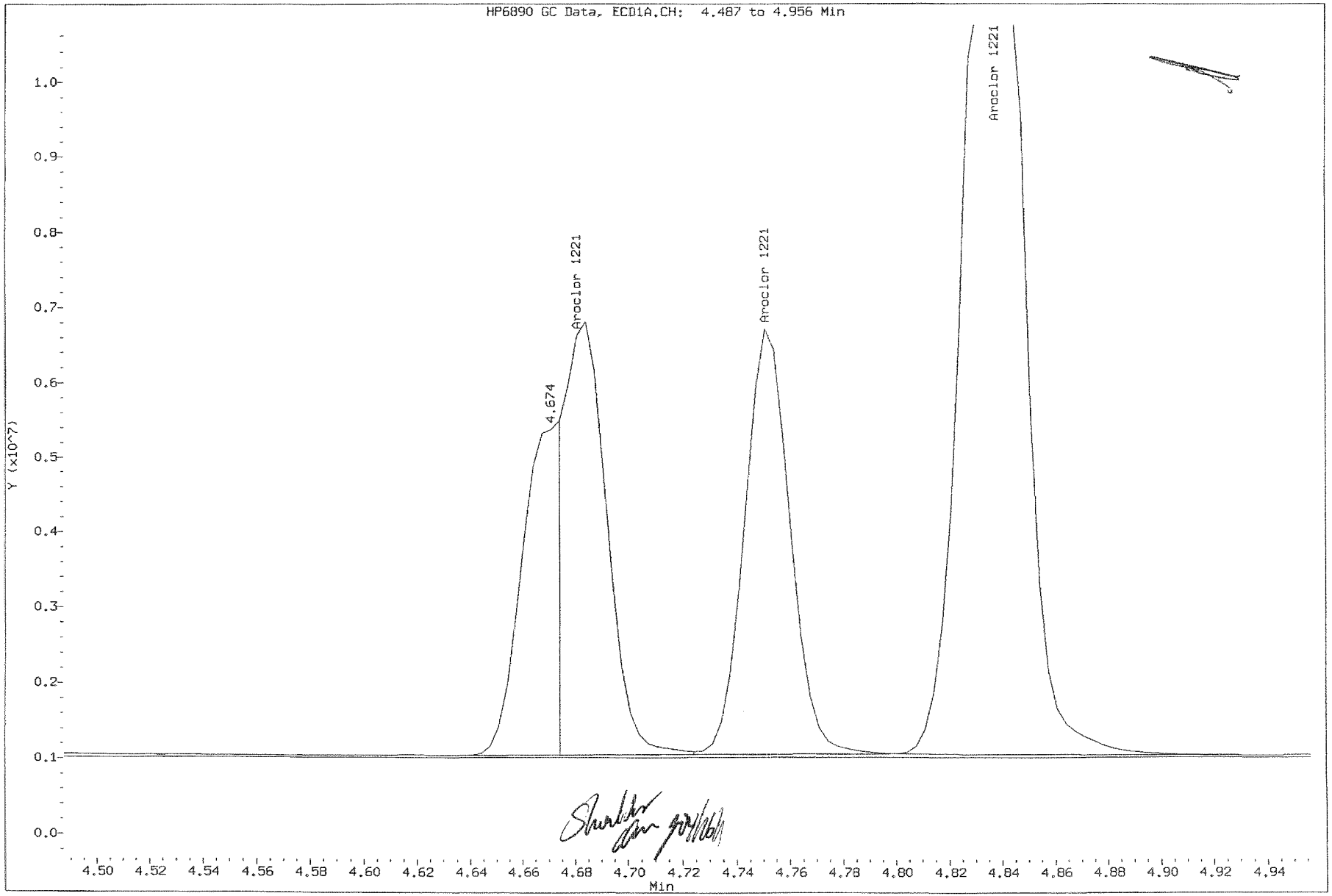
Operator: JMSmith
Column diameter: 0.32



Data File: \\alklsws002\instdata\GC28\Data\042414CAL.b\0424F016.D
Injection Date: 25-APR-2014 10:46
Instrument: GC28.i
Client Sample ID:



Data File: \\alklsws002\instdata\GC28\Data\042414CAL.b\0424F016.D
Injection Date: 25-APR-2014 10:46
Instrument: GC28.i
Client Sample ID:



Data File: \\alklsws002\instdata\GC28\Data\042414CAL.b\0424F017.D
Report Date: 26-Apr-2014 01:13

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC28\Data\042414CAL.b\0424F017.D
Sample #2 : \\alklsws002\instdata\GC28\Data\042414CAL_r.b\0424F017.D
Inj Date : 25-APR-2014 11:09
Sample Info: 3262 @ 25ppb PCB6-33G
Misc Info :
Cal Date : 26-APR-2014 01:07
Operator : JMSmith
Inst ID : GC28.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC28\Data\042414CAL.b\042414_f.m
Method #2 : \\alklsws002\instdata\GC28\Data\042414CAL_r.b\042414_r.m
Sub List #1 : 3262.sub
Sub List #2 : 3262.sub
Col #1 Phase : DB-XLB
Col #2 Phase : DB-35MS

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1232	4.838	4.315	86260	476934	30.5	32.6	80.00- 120.00	100.00(M)
	5.238	4.835	29164	138198	31.5	29.5	26.42- 39.63	33.81(M)
	5.412	5.022	41310	266738	31.0	27.9	37.29- 55.94	47.89(M)
	5.798	5.035	62231	426160	28.5	28.7	65.70- 98.54	72.14(M)
	5.838	5.132	72652	295406	27.4	29.5	79.51- 119.26	84.22(M)
		Average of Peak Amounts =			29.8	29.6		
Aroclor 1262	9.738	8.268	223100	1417499	27.9	29.3	80.00- 120.00	100.00
	10.202	8.835	188613	1179607	29.1	28.5	63.47- 95.20	84.54
	10.888	9.298	395936	2384997	27.9	27.6	146.16- 219.25	177.47
	11.562	10.098	265293	1829018	27.0	27.9	98.30- 147.44	118.91
	12.908	11.242	152413	890298	28.3	27.4	53.66- 80.49	68.32
		Average of Peak Amounts =			28.0	28.1		

QC Flag Legend

M - Compound response manually integrated.

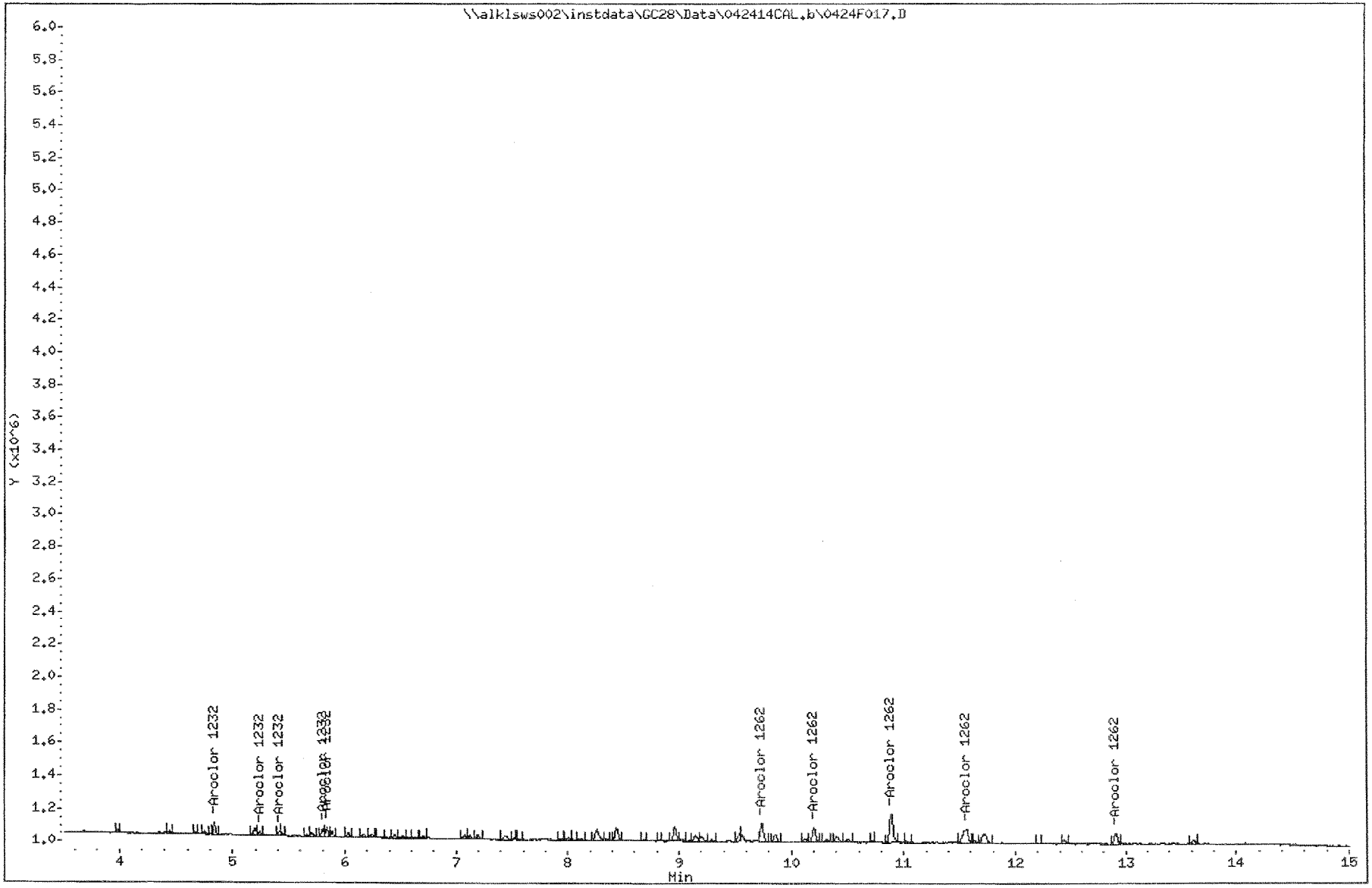
Data File: \\alklsws002\instdata\GC28\Data\042414CAL.b\0424F017.D
Date : 25-APR-2014 11:09
Client ID:
Sample Info: 3262 @ 25ppb PCB6-33G

Instrument: GC28.i

Operator: JMSmith

Column phase: DB-XLB

Column diameter: 0.32



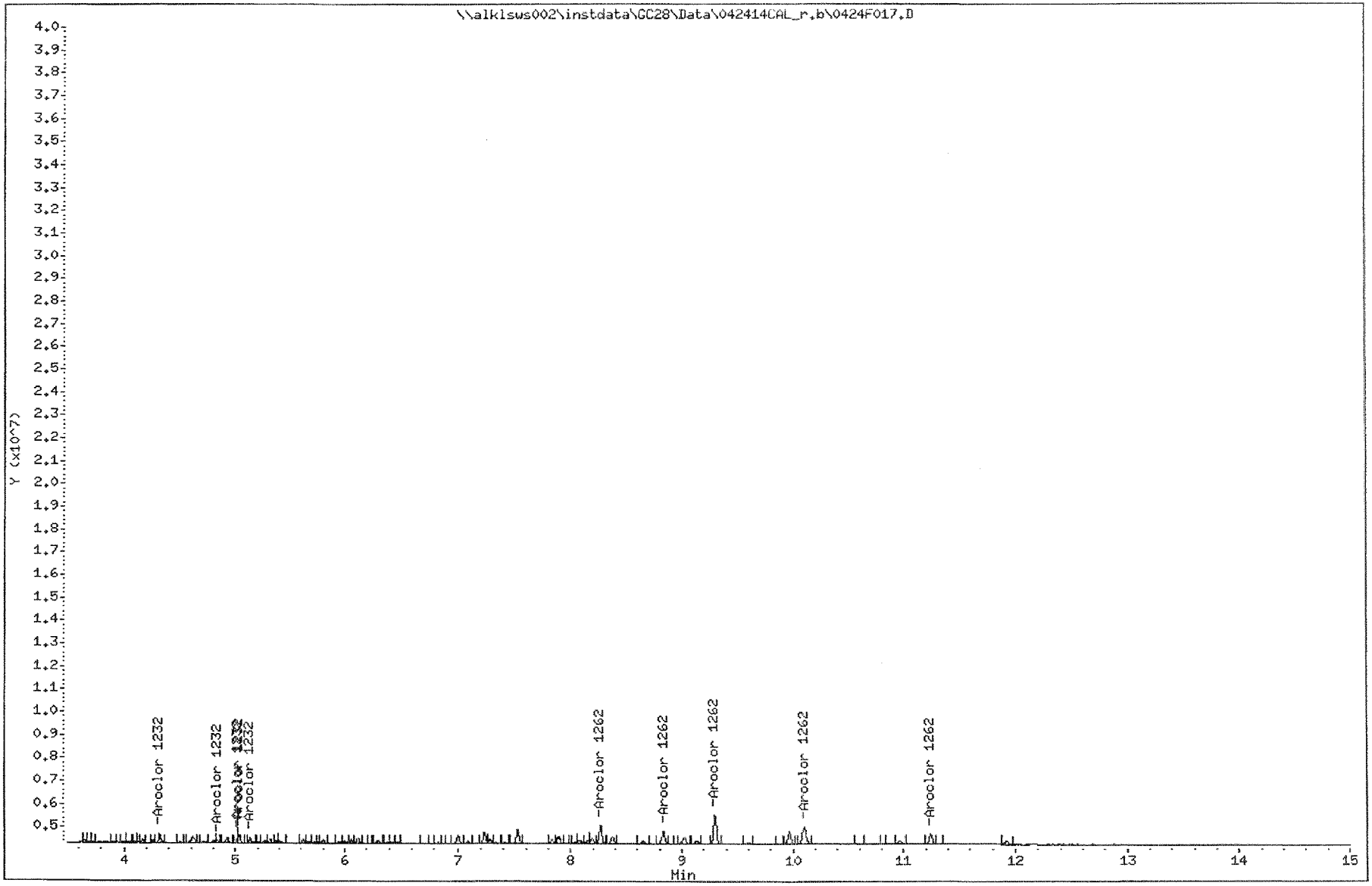
Data File: \\alklsws002\instdata\GC28\Data\042414CAL_r.b\0424F017.D
Date : 25-APR-2014 11:09
Client ID:
Sample Info: 3262 @ 25ppb PCB6-33G

Instrument: GC28.i

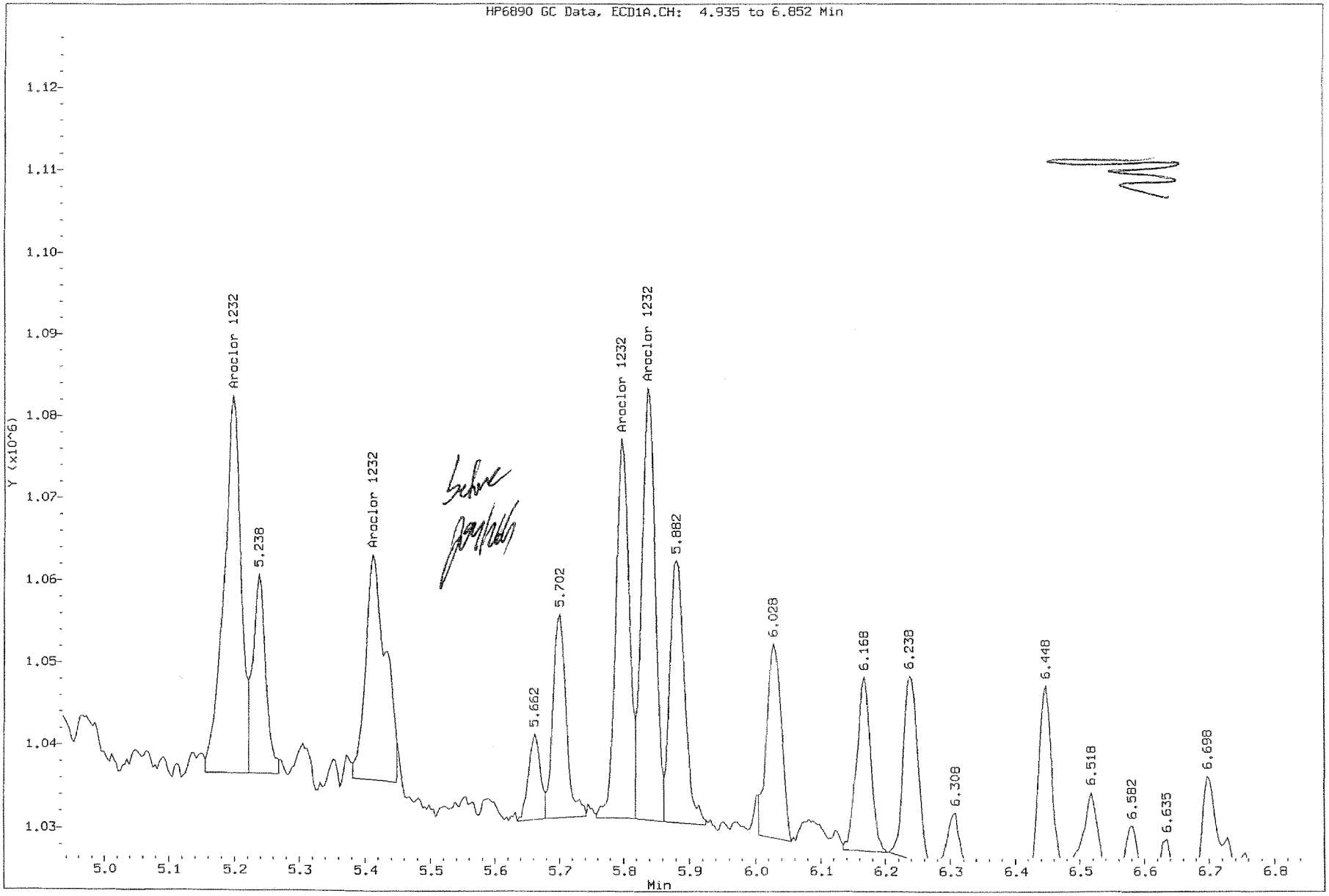
Operator: JMSmith

Column phase: DB-35MS

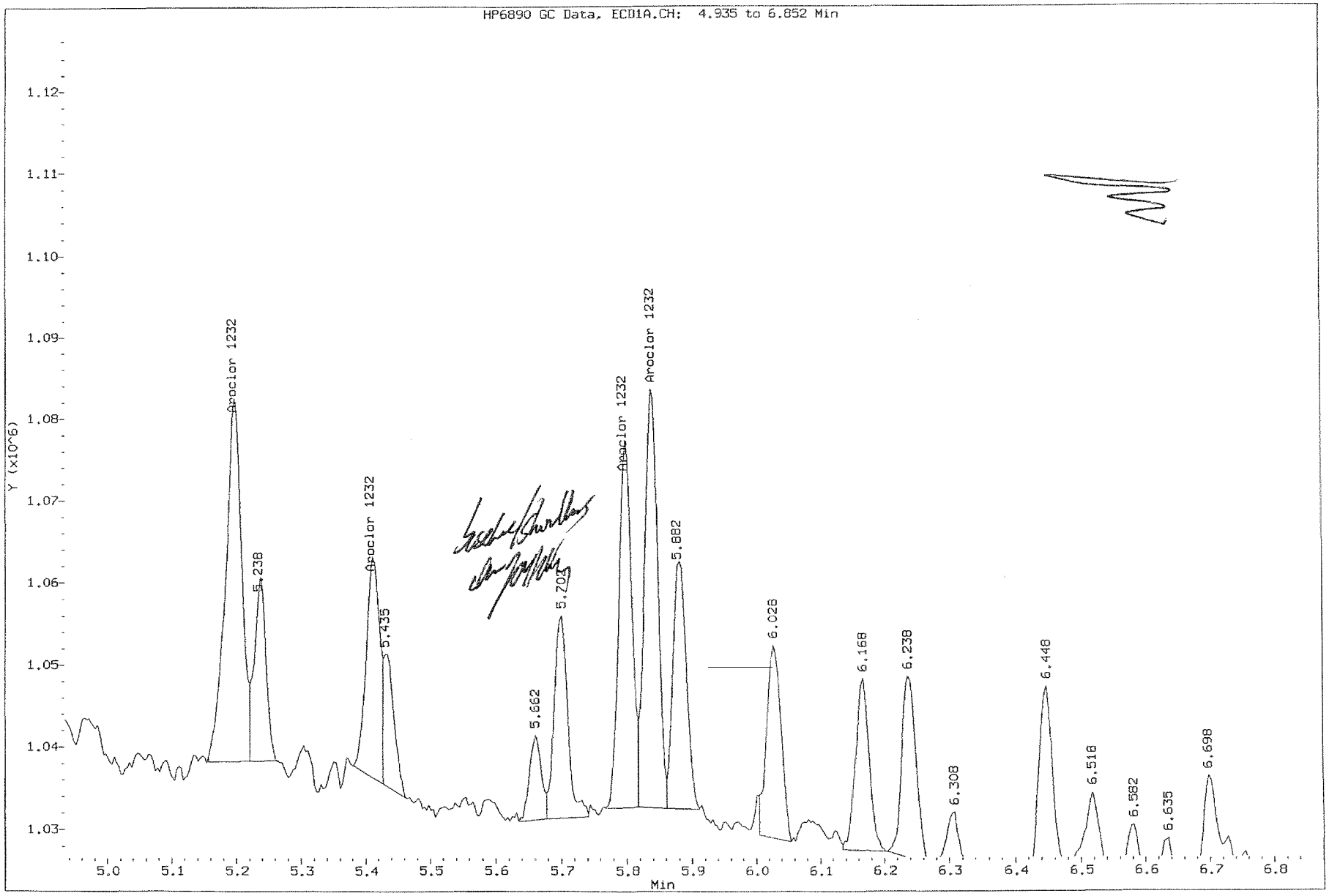
Column diameter: 0.32



Data File: \\alklsws002\instdata\GC28\Data\042414CAL.b\0424F017.D
Injection Date: 25-APR-2014 11:09
Instrument: GC28.i
Client Sample ID:



Data File: \\alklsws002\instdata\GC28\Data\042414CAL.b\0424F017.D
Injection Date: 25-APR-2014 11:09
Instrument: GC28.i
Client Sample ID:



Data File: \\alklsws002\instdata\GC28\Data\042414CAL.b\0424F018.D
Report Date: 26-Apr-2014 01:13

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC28\Data\042414CAL.b\0424F018.D
Sample #2 : \\alklsws002\instdata\GC28\Data\042414CAL_r.b\0424F018.D
Inj Date : 25-APR-2014 11:32
Sample Info: 3262 @ 50ppb PCB6-33F
Misc Info :
Cal Date : 26-APR-2014 01:07
Operator : JMSmith
Inst ID : GC28.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC28\Data\042414CAL.b\042414_f.m
Method #2 : \\alklsws002\instdata\GC28\Data\042414CAL_r.b\042414_r.m
Sub List #1 : 3262.sub
Sub List #2 : 3262.sub
Col #1 Phase : DB-XLB
Col #2 Phase : DB-35MS

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1232	4.837	4.317	167028	830102	59.1	56.8	80.00- 120.00	100.00(M)
	5.240	4.837	52197	268283	56.4	57.4	26.42- 39.63	31.25(M)
	5.414	5.020	80259	535710	60.1	56.1	37.29- 55.94	48.05(M)
	5.800	5.037	128812	824858	59.0	55.5	65.70- 98.54	77.12(M)
	5.840	5.134	151306	566380	57.0	56.6	79.51- 119.26	90.59(M)
		Average of Peak Amounts =			58.3	56.5		
Aroclor 1262	9.740	8.274	445639	2723132	55.6	56.3	80.00- 120.00	100.00
	10.200	8.834	359545	2303266	55.6	55.7	63.47- 95.20	80.68
	10.890	9.300	768279	4519310	54.2	52.2	146.16- 219.25	172.40
	11.564	10.100	547686	3532340	55.7	53.8	98.30- 147.44	122.90
	12.910	11.244	291043	1741163	54.0	53.7	53.66- 80.49	65.31
		Average of Peak Amounts =			55.0	54.3		

QC Flag Legend

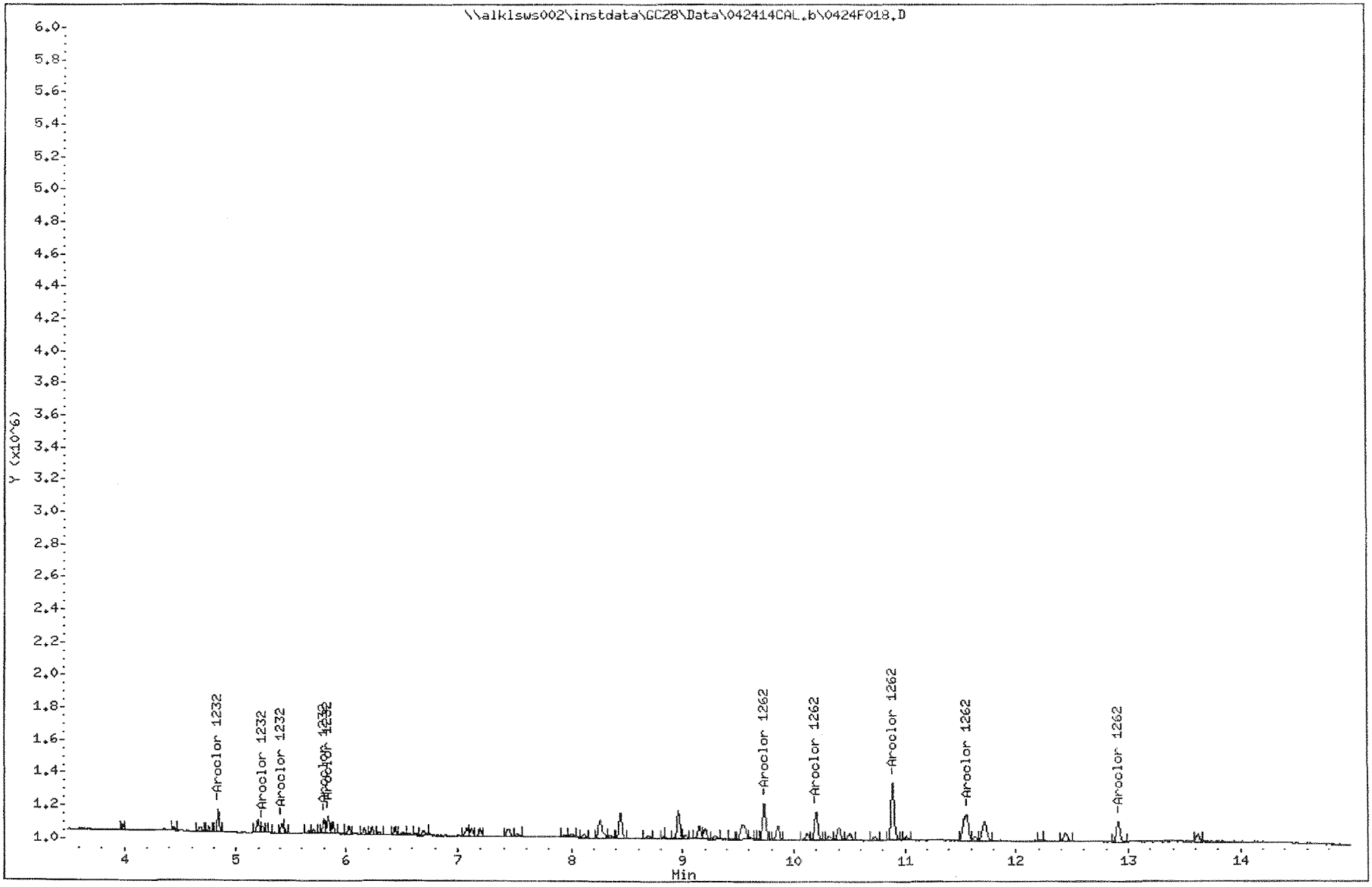
M - Compound response manually integrated.

Data File: \\alklsws002\instdata\GC28\Data\042414CAL.b\0424F018.D
Date : 25-APR-2014 11:32
Client ID:
Sample Info: 3262 @ 50ppb PCB6-33F

Column phase: DB-XLB

Instrument: GC28.i

Operator: JMSmith
Column diameter: 0.32

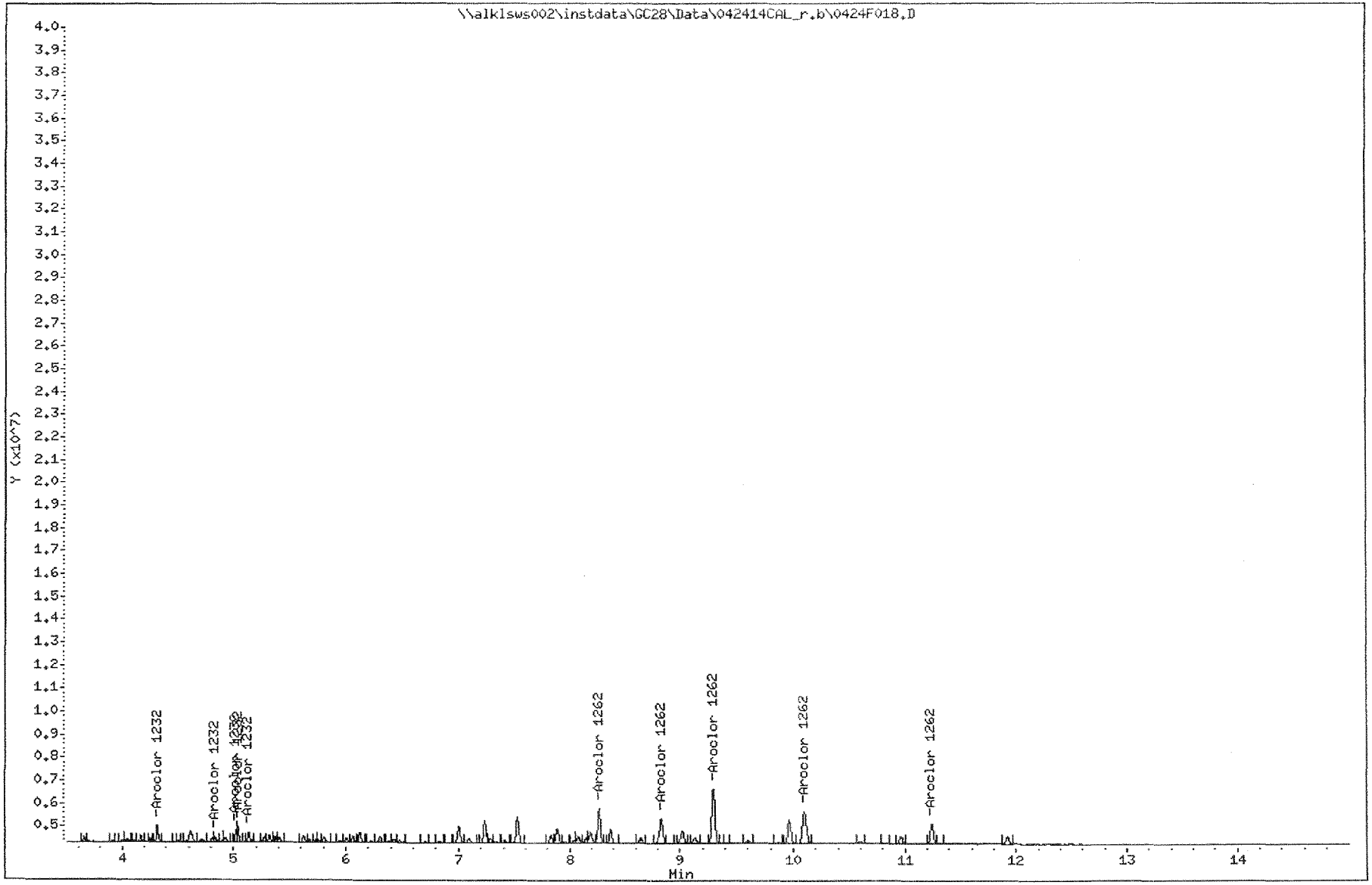


Data File: \\alklsws002\instdata\GC28\Data\042414CAL_r.b\0424F018.D
Date : 25-APR-2014 11:32
Client ID:
Sample Info: 3262 @ 50ppb PCB6-33F

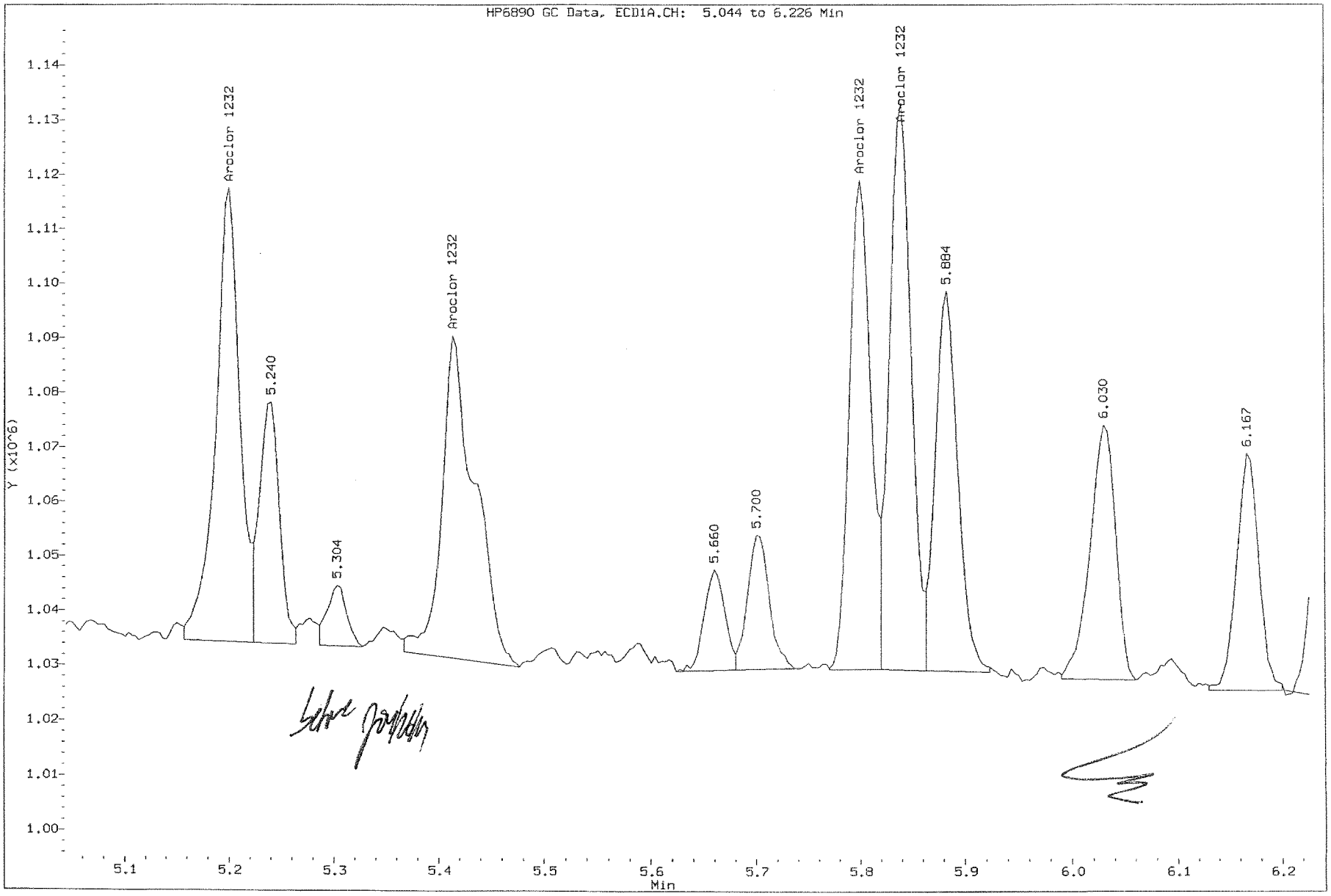
Column phase: DB-35MS

Instrument: GC28.i

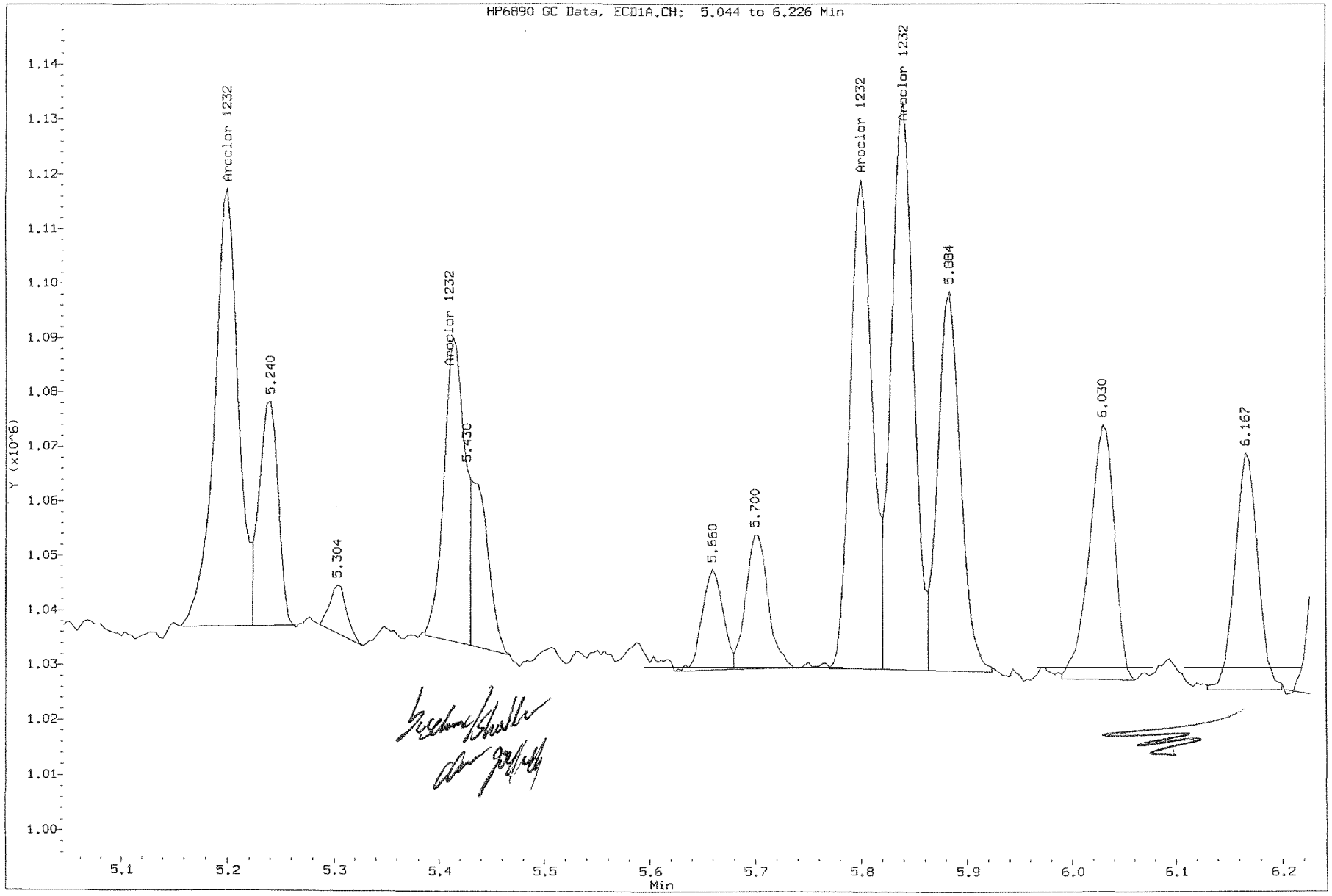
Operator: JMSmith
Column diameter: 0.32



Data File: \\alklsws002\instdata\GC28\Data\042414CAL.b\0424F018.D
Injection Date: 25-APR-2014 11:32
Instrument: GC28.i
Client Sample ID:



Data File: \\alklsws002\instdata\GC28\Data\042414CAL.b\0424F018.D
Injection Date: 25-APR-2014 11:32
Instrument: GC28.i
Client Sample ID:



Data File: \\alklsws002\instdata\GC28\Data\042414CAL.b\0424F019.D
Report Date: 26-Apr-2014 01:13

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC28\Data\042414CAL.b\0424F019.D
Sample #2 : \\alklsws002\instdata\GC28\Data\042414CAL_r.b\0424F019.D
Inj Date : 25-APR-2014 11:55
Sample Info: 3262 @ 500ppb PCB6-33E
Misc Info :
Cal Date : 26-APR-2014 01:08
Operator : JMSmith
Inst ID : GC28.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC28\Data\042414CAL.b\042414_f.m
Method #2 : \\alklsws002\instdata\GC28\Data\042414CAL_r.b\042414_r.m
Sub List #1 : 3262.sub
Sub List #2 : 3262.sub
Col #1 Phase : DB-XLB
Col #2 Phase : DB-35MS

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1232	4.838	4.315	1423891	7027873	503	480	80.00- 120.00	100.00(M)
	5.238	4.838	465651	2342065	503	501	26.42- 39.63	32.70(M)
	5.415	5.022	702428	5220532	526	546	37.29- 55.94	49.33(M)
	5.802	5.038	1088807	6727341	498	453	65.70- 98.54	76.47(M)
	5.842	5.135	1363076	4963881	514	496	79.51- 119.26	95.73(M)
		Average of Peak Amounts =			509	495		
Aroclor 1262	9.742	8.272	3997876	23068569	499	477	80.00- 120.00	100.00
	10.202	8.835	3189472	19899572	493	481	63.47- 95.20	79.78
	10.892	9.302	6995077	41179158	493	476	146.16- 219.25	174.97
	11.562	10.098	4950351	31790984	503	484	98.30- 147.44	123.82
	12.912	11.245	2687632	15923520	499	491	53.66- 80.49	67.23
		Average of Peak Amounts =			497	482		

QC Flag Legend

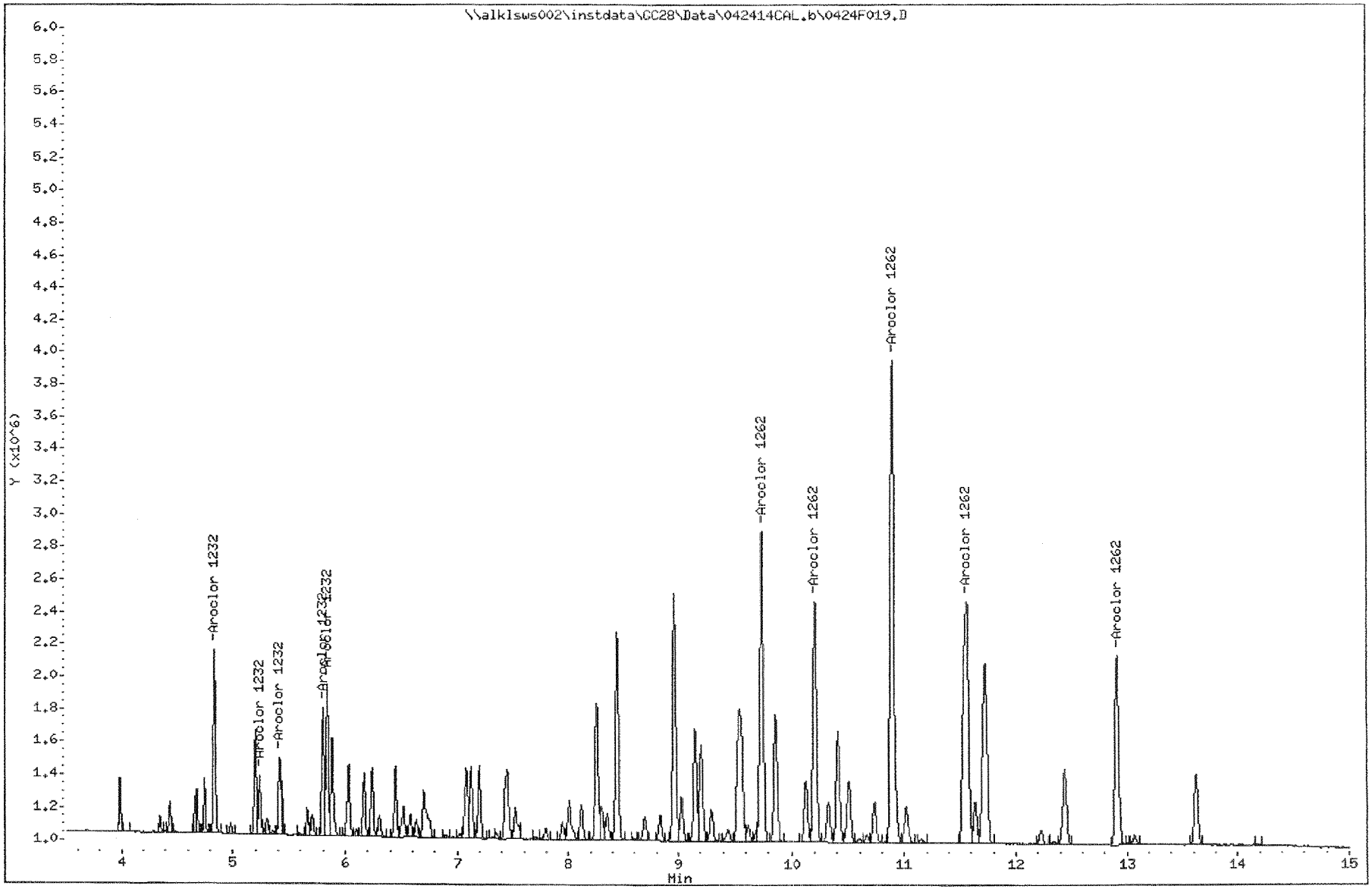
M - Compound response manually integrated.

Data File: \\alklsws002\instdata\GC28\Data\042414CAL.b\0424F019.D
Date : 25-APR-2014 11:55
Client ID:
Sample Info: 3262 @ 500ppb PCB6-33E

Column phase: DB-XLB

Instrument: GC28.i

Operator: JMSmith
Column diameter: 0.32



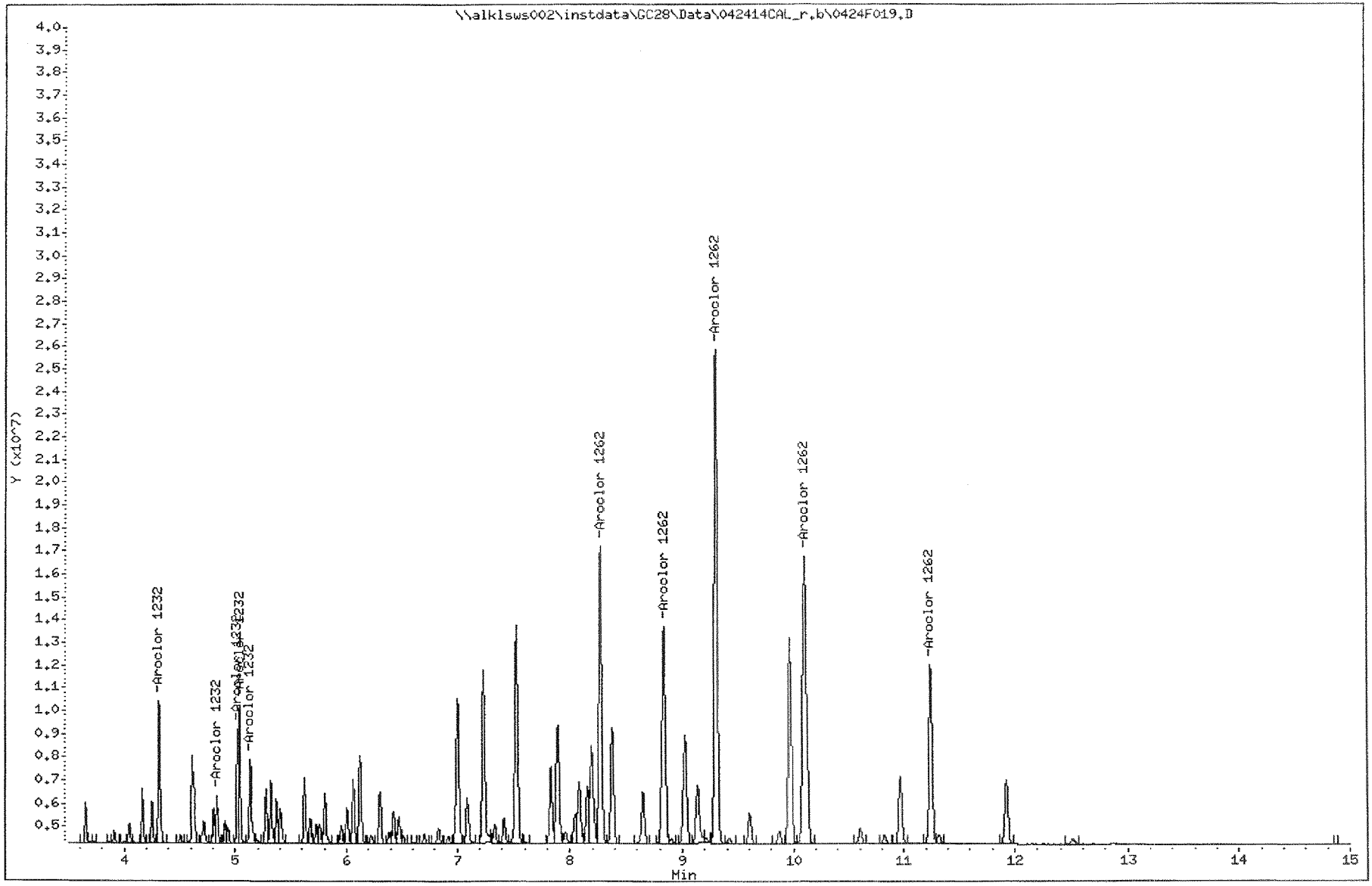
Data File: \\alklsws002\instdata\GC28\Data\042414CAL_r.b\0424F019.D
Date : 25-APR-2014 11:55
Client ID:
Sample Info: 3262 @ 500ppb PCB6-33E

Instrument: GC28.i

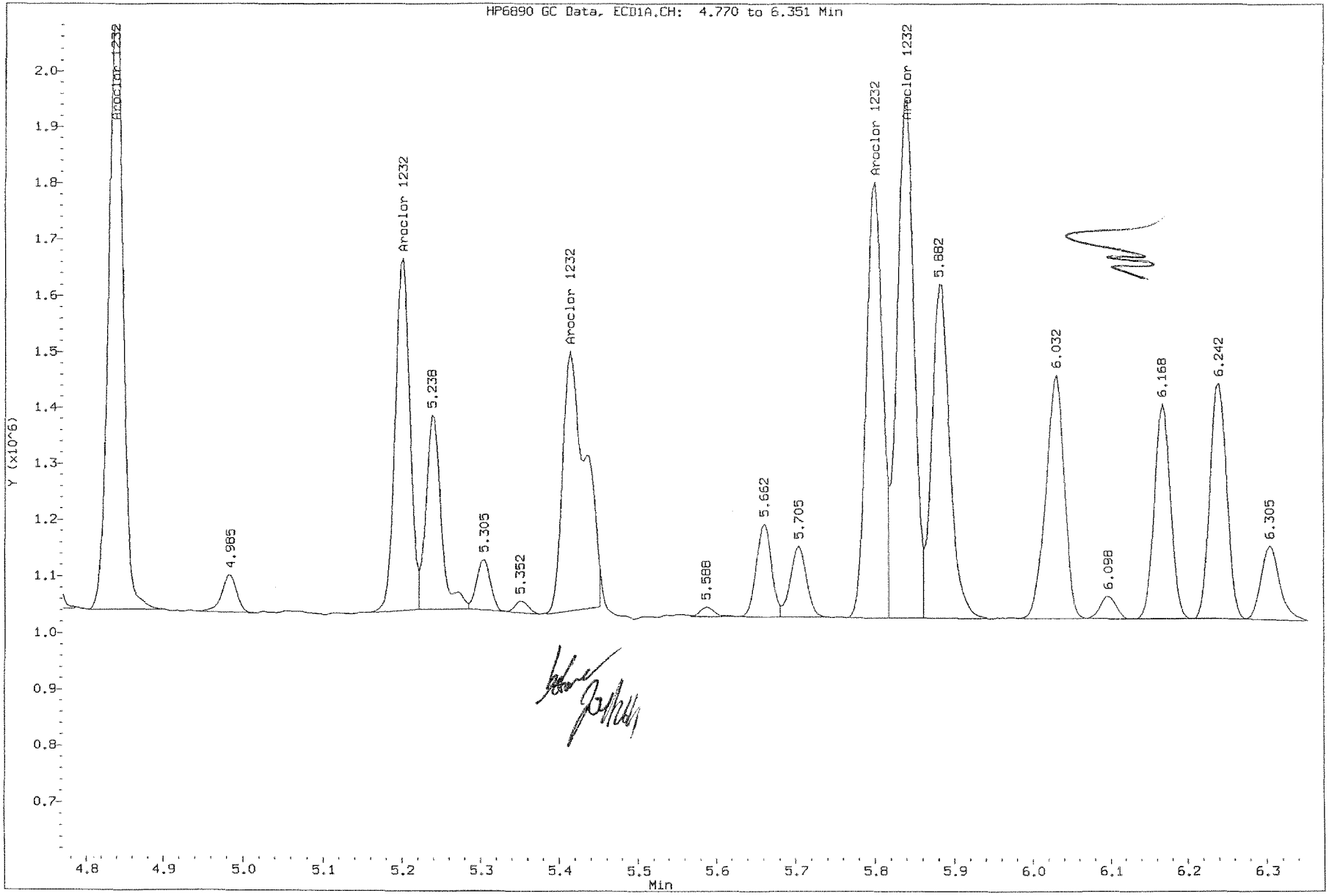
Operator: JMSmith

Column phase: DB-35MS

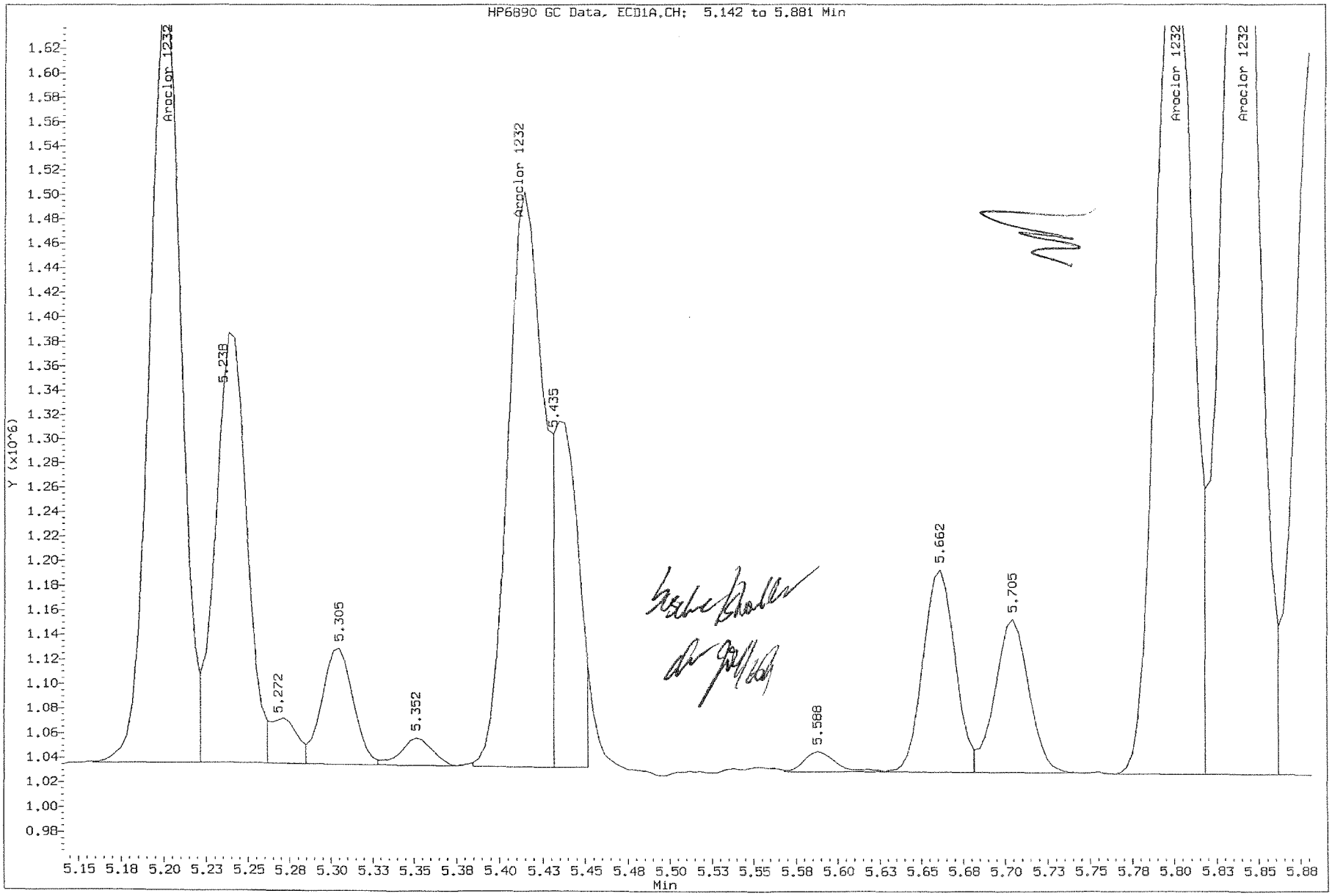
Column diameter: 0.32



Data File: \\alklsws002\instdata\GC28\Data\042414CAL.b\0424F019.D
Injection Date: 25-APR-2014 11:55
Instrument: GC28.i
Client Sample ID:



Data File: \\alklsws002\instdata\GC28\Data\042414CAL.b\0424F019.D
Injection Date: 25-APR-2014 11:55
Instrument: GC28.i
Client Sample ID:



Data File: \\alklsws002\instdata\GC28\Data\042414CAL.b\0424F020.D
Report Date: 26-Apr-2014 01:13

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC28\Data\042414CAL.b\0424F020.D
Sample #2 : \\alklsws002\instdata\GC28\Data\042414CAL_r.b\0424F020.D
Inj Date : 25-APR-2014 12:18
Sample Info: 3262 @ 1000ppb PCB6-33D
Misc Info :
Cal Date : 26-APR-2014 01:08
Operator : JMSmith
Inst ID : GC28.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC28\Data\042414CAL.b\042414_f.m
Method #2 : \\alklsws002\instdata\GC28\Data\042414CAL_r.b\042414_r.m
Sub List #1 : 3262.sub
Sub List #2 : 3262.sub
Col #1 Phase : DB-XLB
Col #2 Phase : DB-35MS

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1232	4.840	4.317	2709275	13489398	958	922	80.00- 120.00	100.00
	5.240	4.840	888900	4500210	961	962	26.42- 39.63	32.81
	5.417	5.023	1240250	8900401	929	931	37.29- 55.94	45.78
	5.800	5.037	2137299	14526021	978	978	65.70- 98.54	78.89
	5.840	5.133	2662255	9581012	1000	957	79.51- 119.26	98.26
		Average of Peak Amounts =			965	950		
Aroclor 1262	9.740	8.273	8083033	46483258	1010	961	80.00- 120.00	100.00
	10.203	8.837	6505400	40081350	1010	969	63.47- 95.20	80.48
	10.893	9.303	14405208	85791946	1020	992	146.16- 219.25	178.22
	11.560	10.103	10162296	64561680	1030	984	98.30- 147.44	125.72
	12.913	11.247	5548864	32336894	1030	996	53.66- 80.49	68.65
		Average of Peak Amounts =			1020	980		

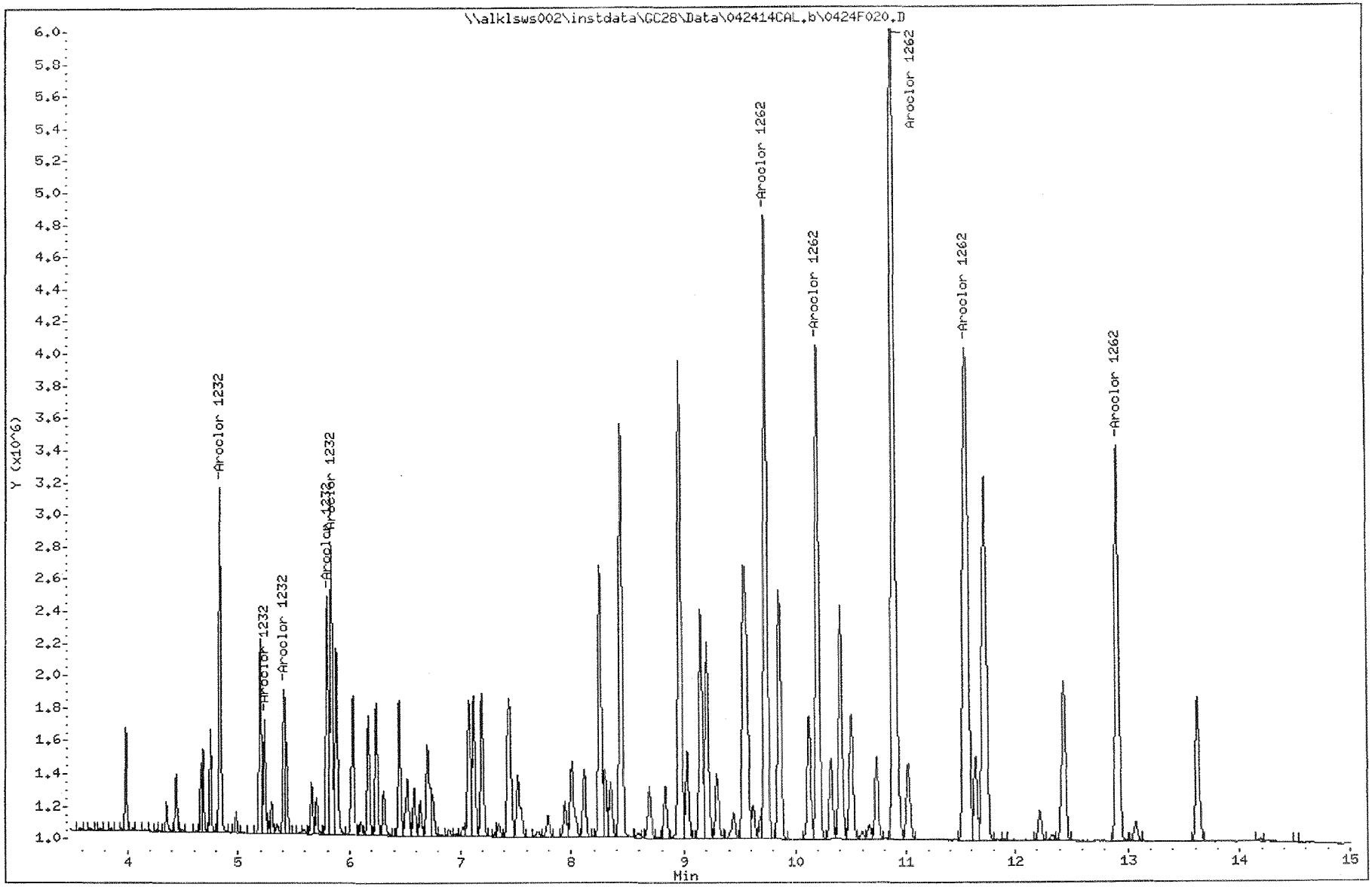
Data File: \\alklsws002\instdata\GC28\Data\042414CAL.b\0424F020.D
Date : 25-APR-2014 12:18
Client ID:
Sample Info: 3262 @ 1000ppb PCB6-33D

Instrument: GC28.i

Operator: JMSmith

Column phase: DB-XLB

Column diameter: 0.32



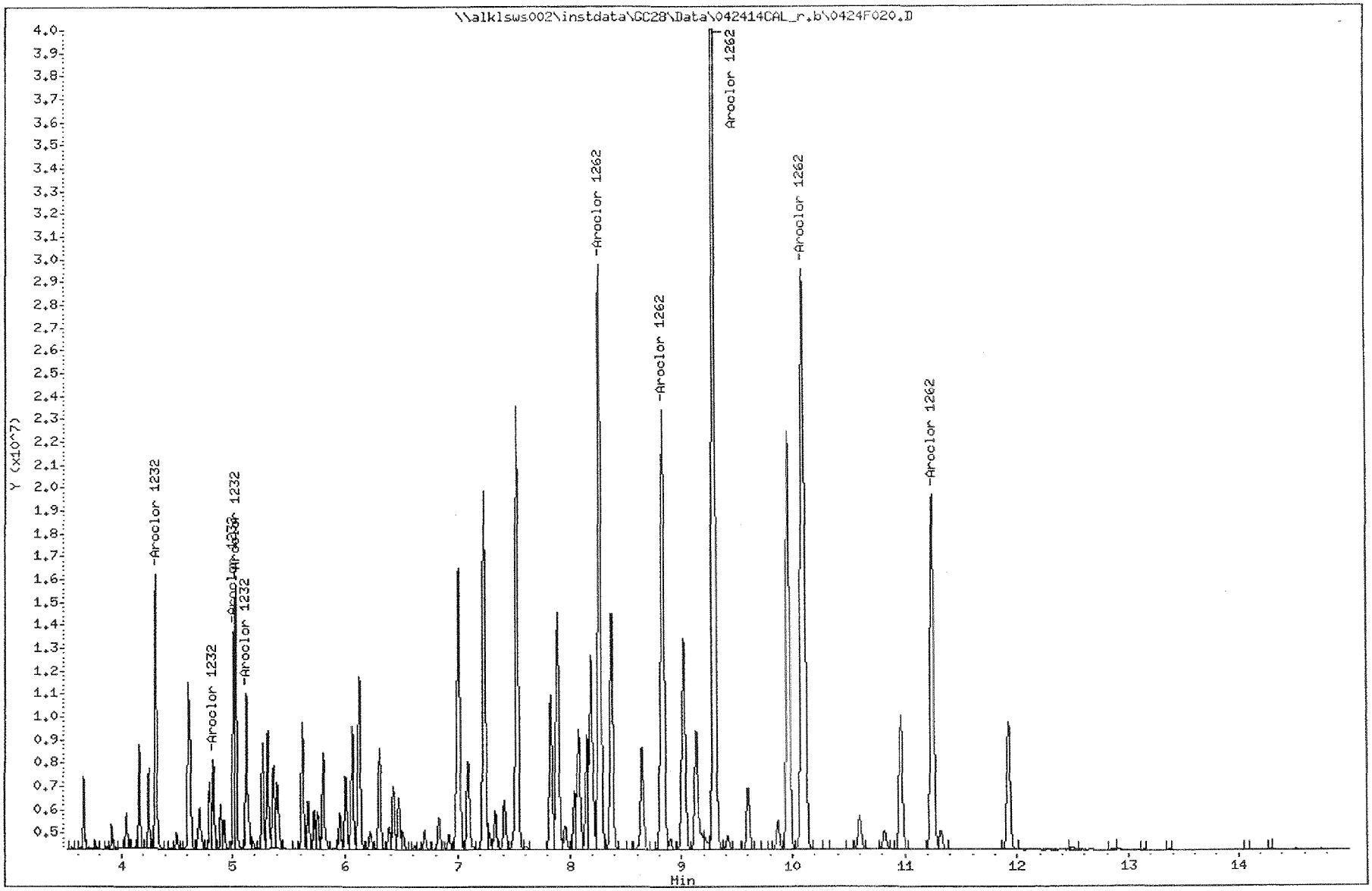
Data File: \\alklsws002\instdata\GC28\Data\042414CAL_r.b\0424F020.D
Date : 25-APR-2014 12:18
Client ID:
Sample Info: 3262 @ 1000ppb PCB6-33D

Instrument: GC28.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32



Data File: \\alklsws002\instdata\GC28\Data\042414CAL.b\0424F021.D
Report Date: 26-Apr-2014 01:13

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC28\Data\042414CAL.b\0424F021.D
Sample #2 : \\alklsws002\instdata\GC28\Data\042414CAL_r.b\0424F021.D
Inj Date : 25-APR-2014 12:41
Sample Info: 3262 @ 2000ppb PCB6-33C
Misc Info :
Cal Date : 26-APR-2014 01:08
Operator : JMSmith
Inst ID : GC28.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC28\Data\042414CAL.b\042414_f.m
Method #2 : \\alklsws002\instdata\GC28\Data\042414CAL_r.b\042414_r.m
Sub List #1 : 3262.sub
Sub List #2 : 3262.sub
Col #1 Phase : DB-XLB
Col #2 Phase : DB-35MS

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1232	4.841	4.318	4792820	24880484	1690	1700	80.00- 120.00	100.00
	5.241	4.841	1569733	8251175	1700	1760	26.42- 39.63	32.75
	5.418	5.024	2136615	15770108	1600	1650	37.29- 55.94	44.58
	5.801	5.041	3801731	28236351	1740	1900	65.70- 98.54	79.32
	5.841	5.134	4786609	17611630	1800	1760	79.51- 119.26	99.87
		Average of Peak Amounts =			1710	1750		
Aroclor 1262	9.744	8.274	14576342	85715005	1820	1770	80.00- 120.00	100.00
	10.204	8.838	11540315	74152342	1780	1790	63.47- 95.20	79.17
	10.894	9.304	25887505	161299039	1830	1860	146.16- 219.25	177.60
	11.561	10.101	17900745	119931154	1820	1830	98.30- 147.44	122.81
	12.914	11.248	9760093	59628025	1810	1840	53.66- 80.49	66.96
		Average of Peak Amounts =			1810	1820		

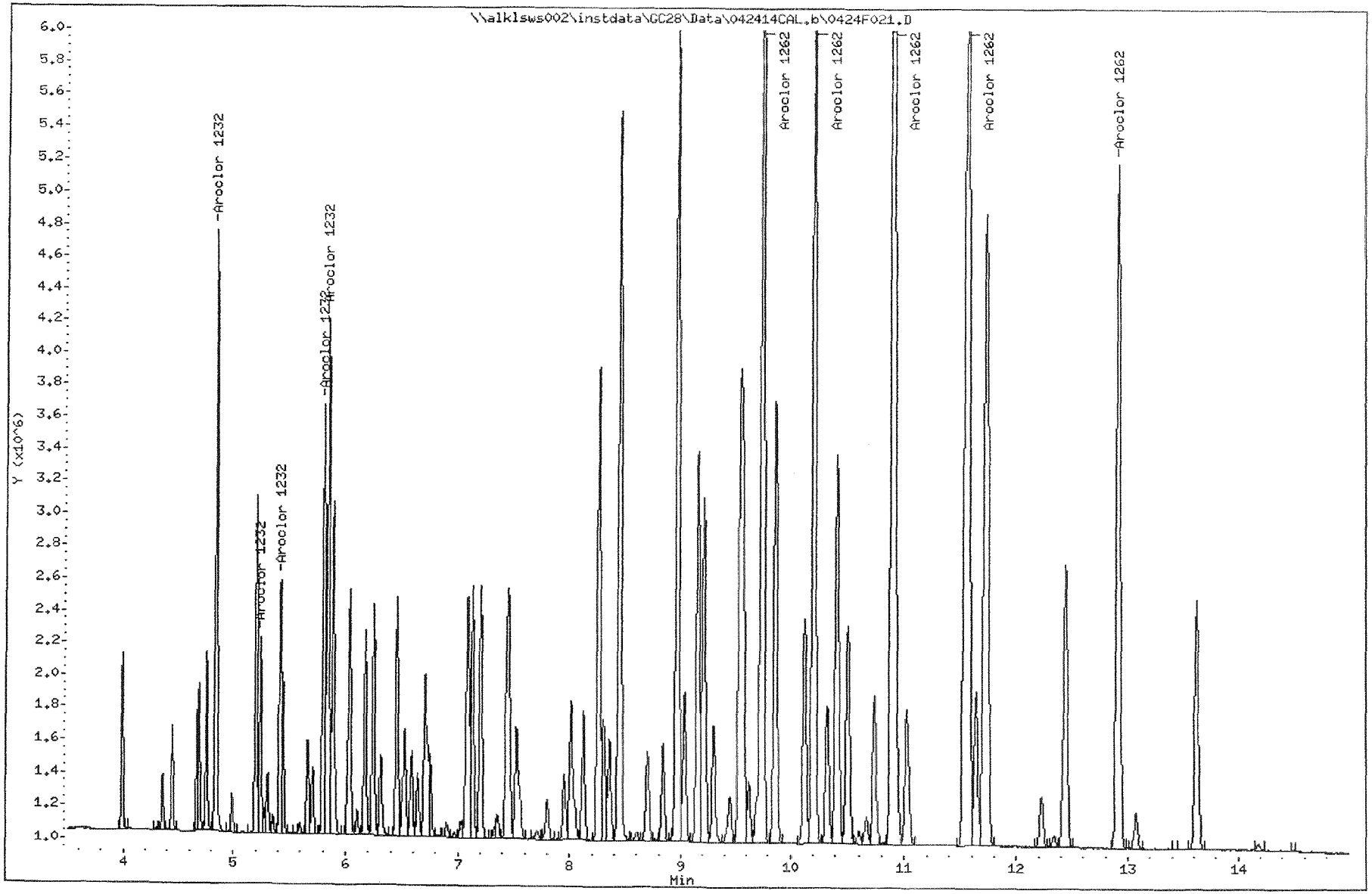
Data File: \\alklsws002\instdata\GC28\Data\042414CAL.b\0424F021.D
Date : 25-APR-2014 12:41
Client ID:
Sample Info: 3262 @ 2000ppb PCB6-33C

Instrument: GC28.i

Operator: JMSmith

Column phase: DB-XLB

Column diameter: 0.32



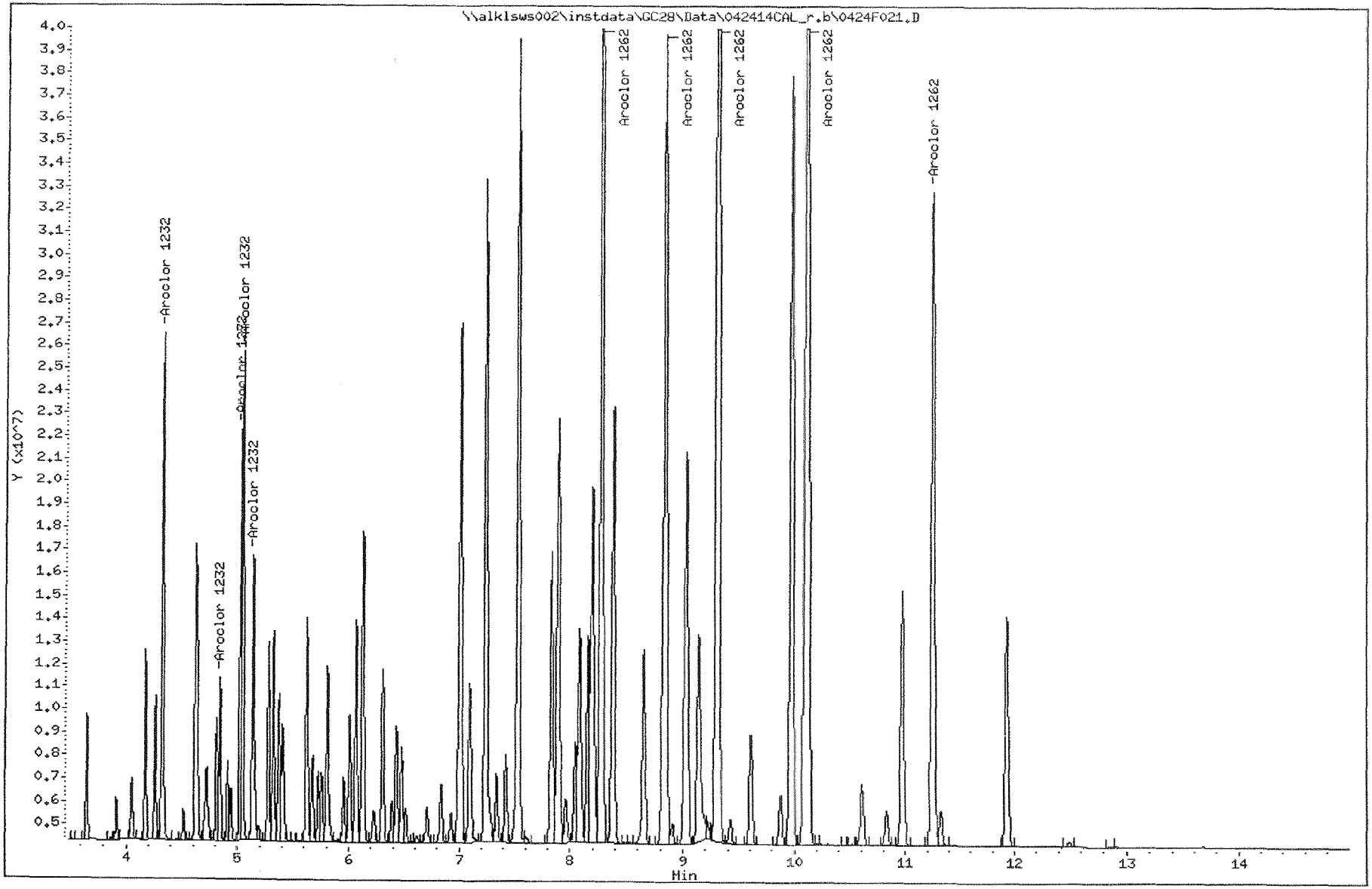
Data File: \\alklsws002\instdata\GC28\Data\042414CAL_r.b\0424F021.D
Date : 25-APR-2014 12:41
Client ID:
Sample Info: 3262 @ 2000ppb PCB6-33C

Instrument: GC28.i

Operator: JHSmith

Column phase: DB-35MS

Column diameter: 0.32



Data File: \\alklsws002\instdata\GC28\Data\042414CAL.b\0424F022.D
Report Date: 26-Apr-2014 01:13

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC28\Data\042414CAL.b\0424F022.D
Sample #2 : \\alklsws002\instdata\GC28\Data\042414CAL_r.b\0424F022.D
Inj Date : 25-APR-2014 13:05
Sample Info: 3262 @ 5000ppb PCB6-33B
Misc Info :
Cal Date : 26-APR-2014 01:08
Operator : JMSmith
Inst ID : GC28.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC28\Data\042414CAL.b\042414_f.m
Method #2 : \\alklsws002\instdata\GC28\Data\042414CAL_r.b\042414_r.m
Sub List #1 : 3262.sub
Sub List #2 : 3262.sub
Col #1 Phase : DB-XLB
Col #2 Phase : DB-35MS

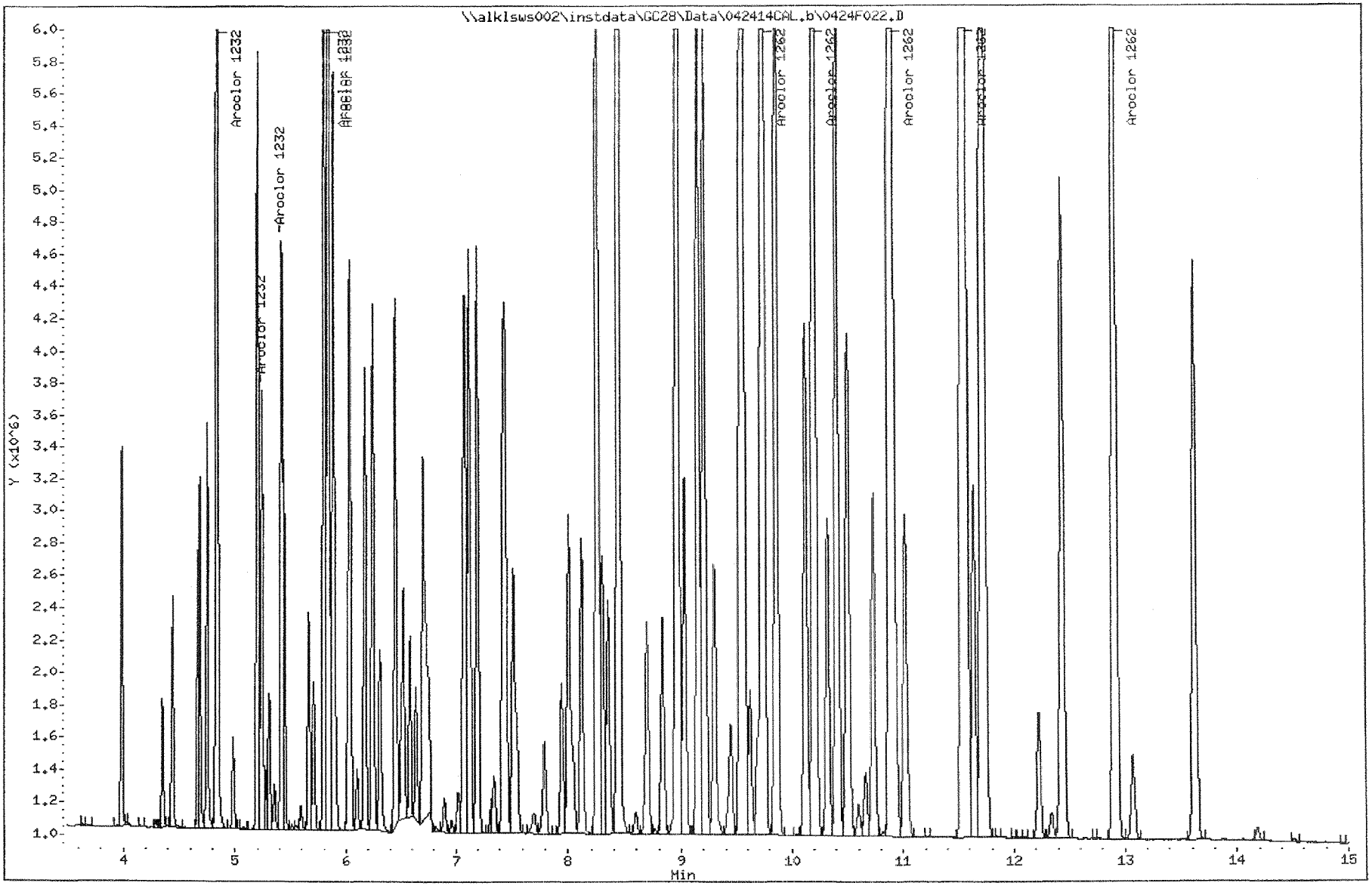
Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1232	4.840	4.320	11122821	60469620	3930	4130	80.00- 120.00	100.00
	5.243	4.840	3673681	19299523	3970	4130	26.42- 39.63	33.03
	5.417	5.023	5184847	43602077	3880	4560	37.29- 55.94	46.61
	5.803	5.040	9133954	67453010	4180	4540	65.70- 98.54	82.12
	5.843	5.137	11054269	43024111	4160	4300	79.51- 119.26	99.38
		Average of Peak Amounts =			4020	4330		
Aroclor 1262	9.743	8.277	34273861	218452993	4280	4510	80.00- 120.00	100.00
	10.203	8.840	27190602	189407520	4200	4580	63.47- 95.20	79.33
	10.897	9.303	62619886	422553128	4420	4880	146.16- 219.25	182.70
	11.563	10.103	42112152	309655232	4280	4720	98.30- 147.44	122.87
	12.913	11.247	22989069	151411000	4270	4670	53.66- 80.49	67.07
		Average of Peak Amounts =			4290	4670		

Data File: \\alklsws002\instdata\GC28\Data\042414CAL.b\0424F022.D
Date : 25-APR-2014 13:05
Client ID:
Sample Info: 3262 @ 5000ppb PCB6-33B

Column phase: DB-XLB

Instrument: GC28.i

Operator: JMSmith
Column diameter: 0.32

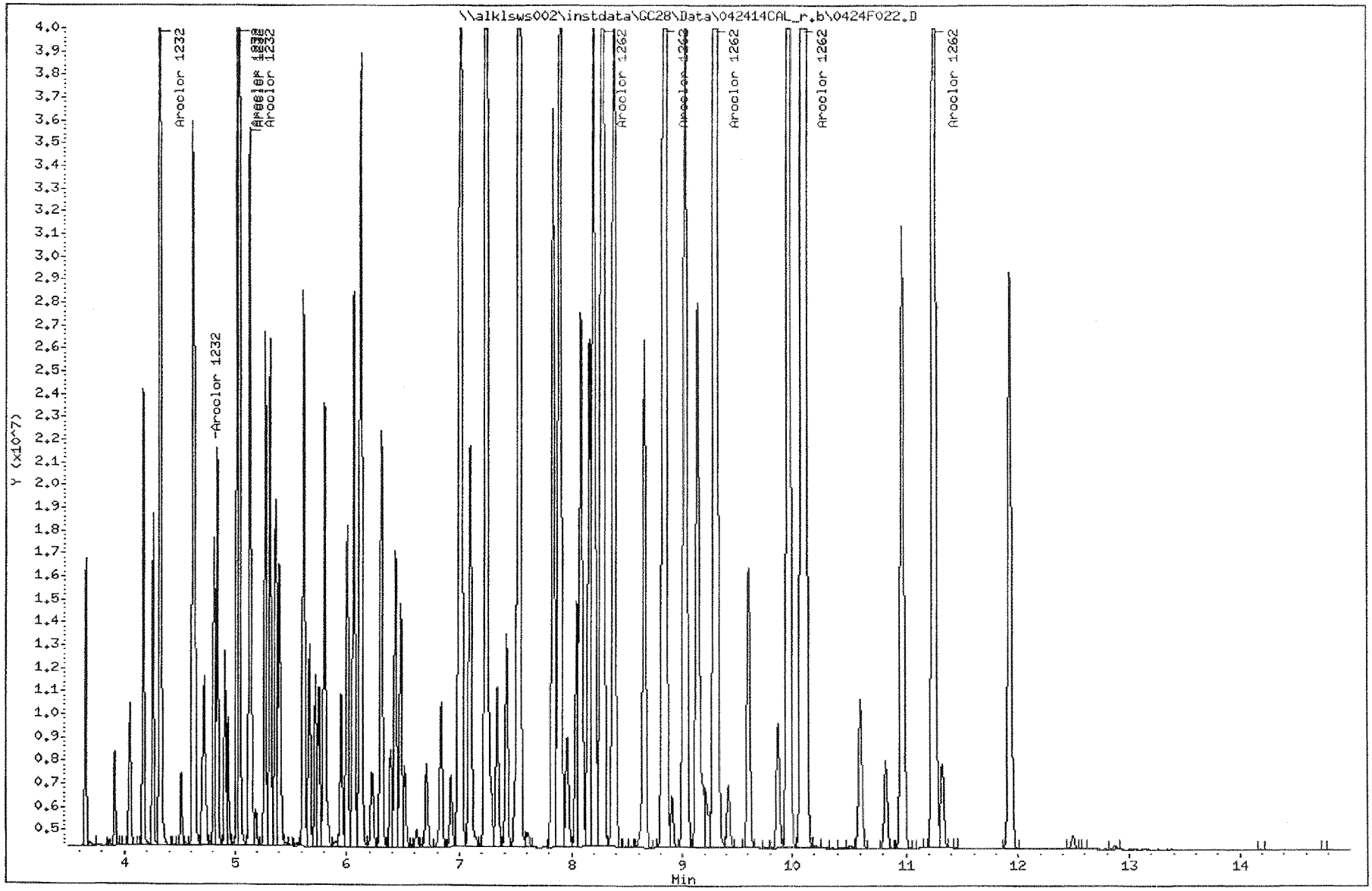


Data File: \\alklsws002\instdata\GC28\Data\042414CAL_r.b\0424F022.D
Date : 25-APR-2014 13:05
Client ID:
Sample Info: 3262 @ 5000ppb PCB6-33B

Column phase: DB-35MS

Instrument: GC28.i

Operator: JMSmith
Column diameter: 0.32



Data File: \\alklsws002\instdata\GC28\Data\042414CAL.b\0424F023.D
Report Date: 26-Apr-2014 01:13

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC28\Data\042414CAL.b\0424F023.D
Sample #2 : \\alklsws002\instdata\GC28\Data\042414CAL_r.b\0424F023.D
Inj Date : 25-APR-2014 13:28
Sample Info: 4268 @ 25ppb PCB6-38F
Misc Info :
Cal Date : 26-APR-2014 01:08
Operator : JMSmith
Inst ID : GC28.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC28\Data\042414CAL.b\042414_f.m
Method #2 : \\alklsws002\instdata\GC28\Data\042414CAL_r.b\042414_r.m
Sub List #1 : 4268.sub
Sub List #2 : 4268.sub
Col #1 Phase : DB-XLB
Col #2 Phase : DB-35MS

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1242	4.840	4.317	54805	311465	28.6	31.3	80.00- 120.00	100.00(M)
	5.240	4.840	49262	248091	31.9	31.6	62.57- 93.85	89.89(M)
	5.840	5.040	130673	696364	28.5	27.6	200.27- 300.41	238.43(M)
	6.033	5.137	71275	504786	28.6	29.3	108.95- 163.43	130.05(M)
	6.703	5.277	61143	280701	27.2	27.8	100.61- 150.91	111.56(M)
		Average of Peak Amounts =			29.0	29.5		
Aroclor 1268	11.566	9.970	517193	3309886	28.3	28.2	80.00- 120.00	100.00
	11.733	10.100	448057	2867010	27.6	27.4	72.15- 108.23	86.63
	12.226	10.603	377899	2478459	27.1	27.3	62.05- 93.08	73.07
	13.623	11.927	1209324	7650690	27.5	27.5	200.65- 300.98	233.82
		Average of Peak Amounts =			27.6	27.6		

QC Flag Legend

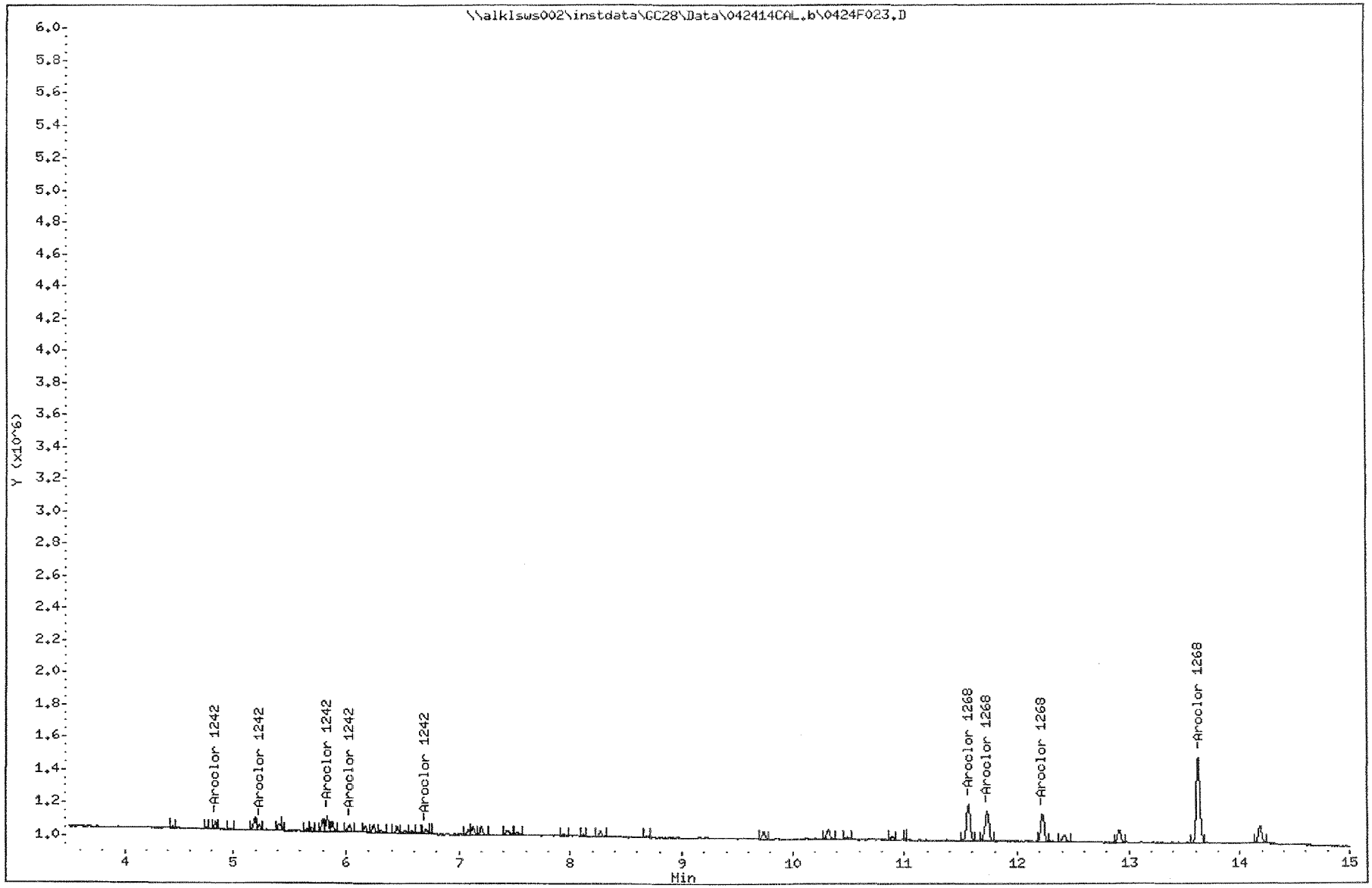
M - Compound response manually integrated.

Data File: \\alklsws002\instdata\GC28\Data\042414CAL.b\0424F023.D
Date : 25-APR-2014 13:28
Client ID:
Sample Info: 4268 @ 25ppb PCB6-38F

Column phase: DB-XLB

Instrument: GC28.i

Operator: JHSmith
Column diameter: 0.32

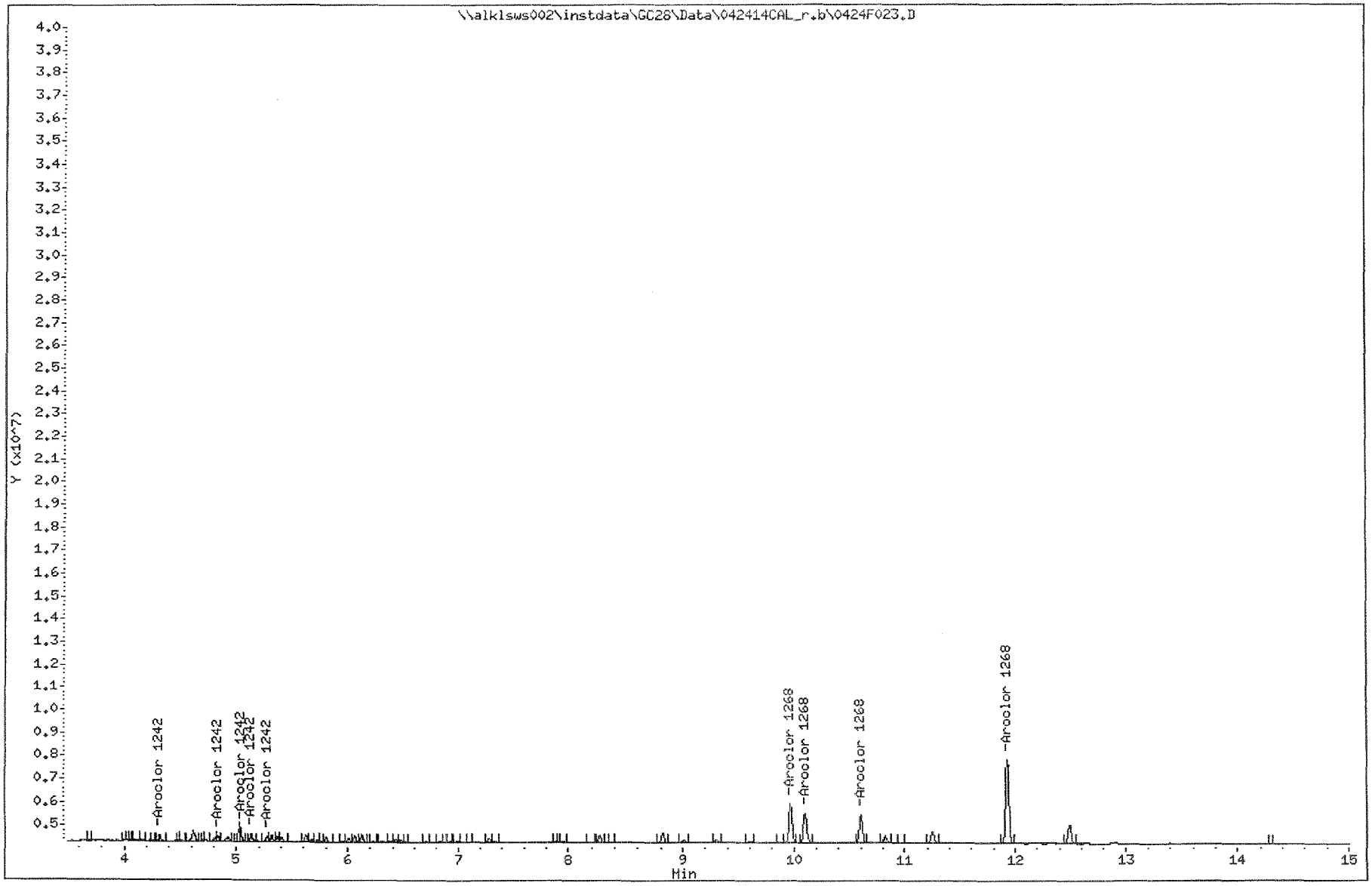


Data File: \\alklsws002\instdata\GC28\Data\042414CAL_r.b\0424F023.D
Date : 25-APR-2014 13:28
Client ID:
Sample Info: 4268 @ 25ppb PCB6-38F

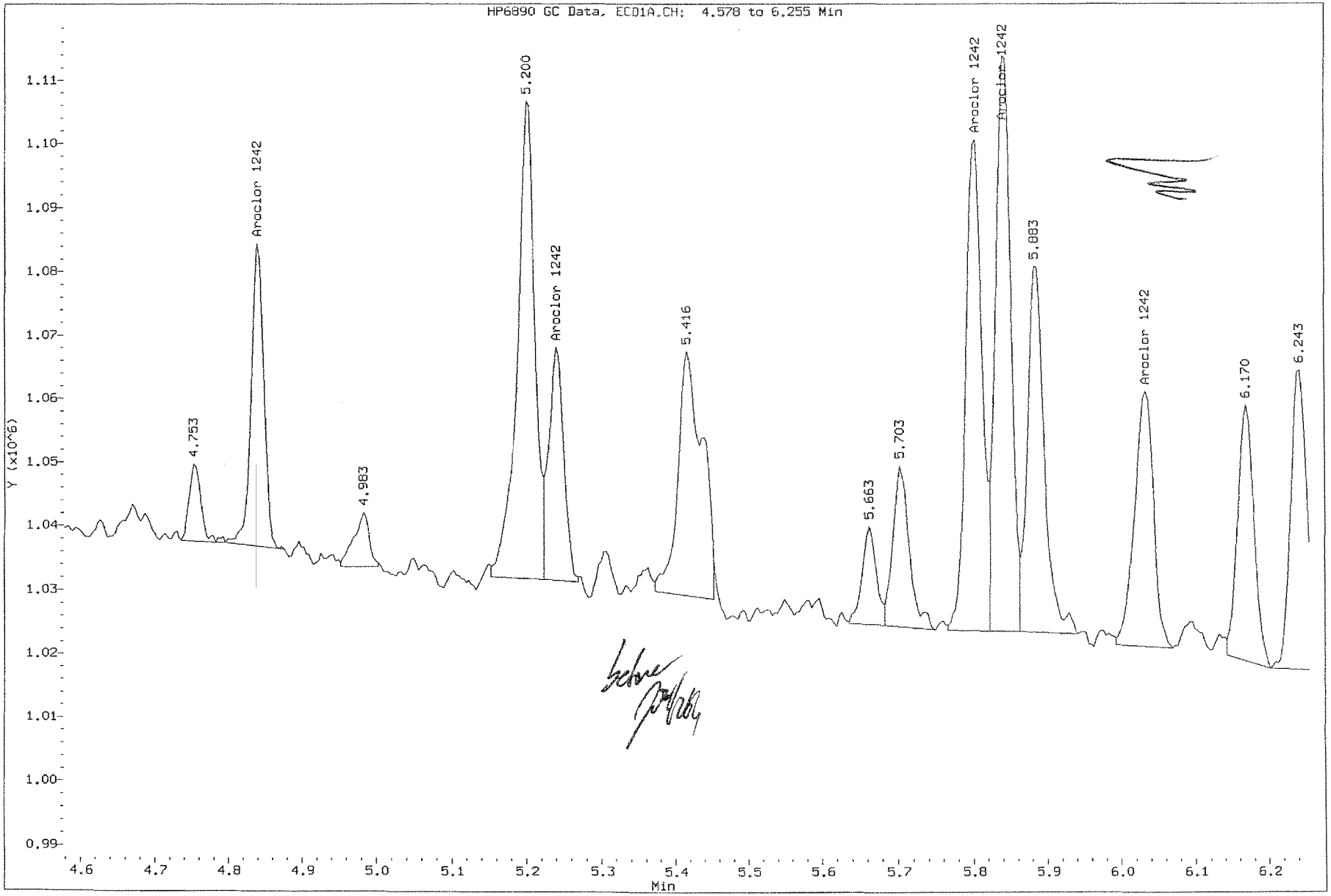
Column phase: DB-35MS

Instrument: GC28.i

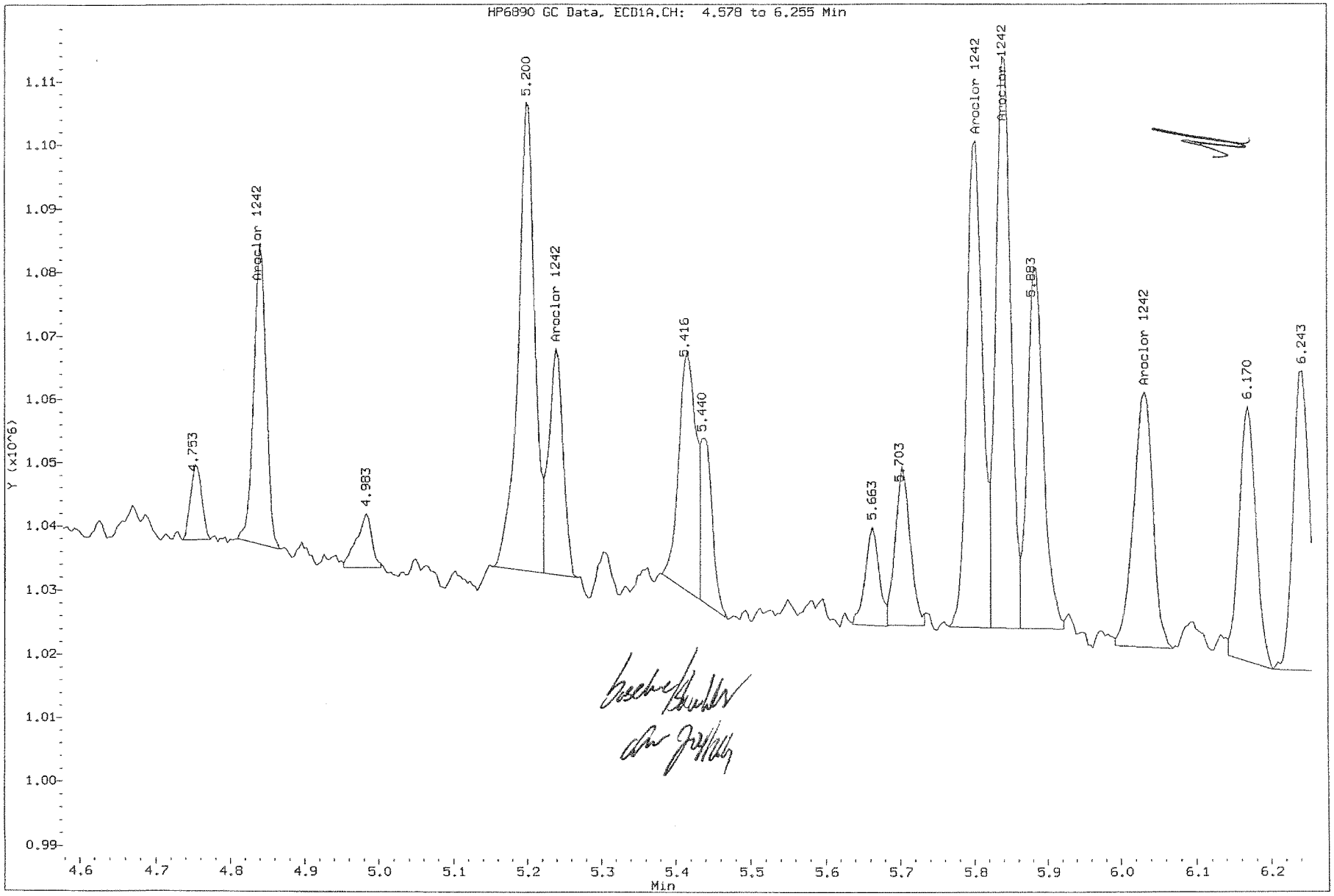
Operator: JMSmith
Column diameter: 0.32



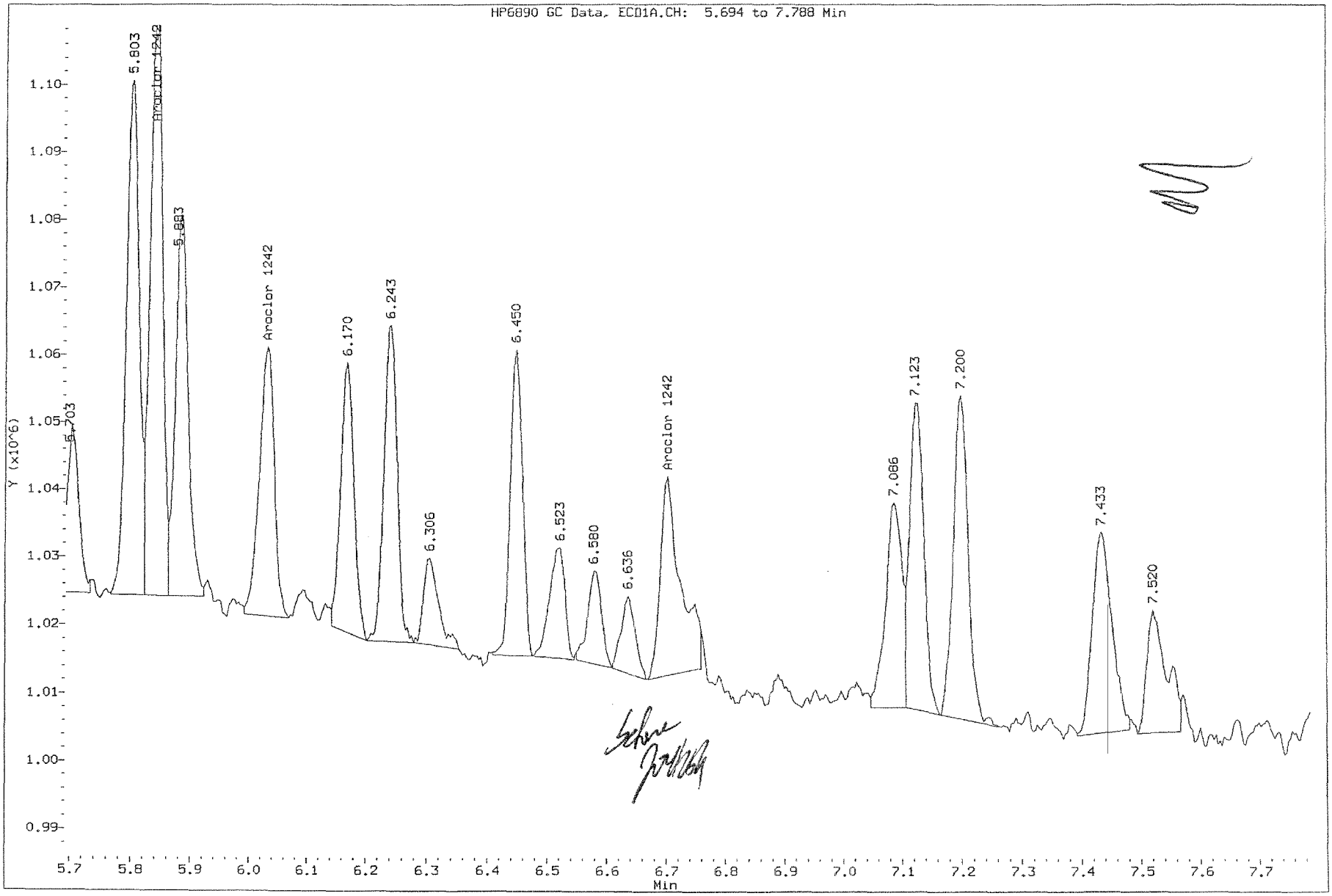
Data File: \\alklsws002\instdata\GC28\Data\042414CAL.b\0424F023.D
Injection Date: 25-APR-2014 13:28
Instrument: GC28.i
Client Sample ID:



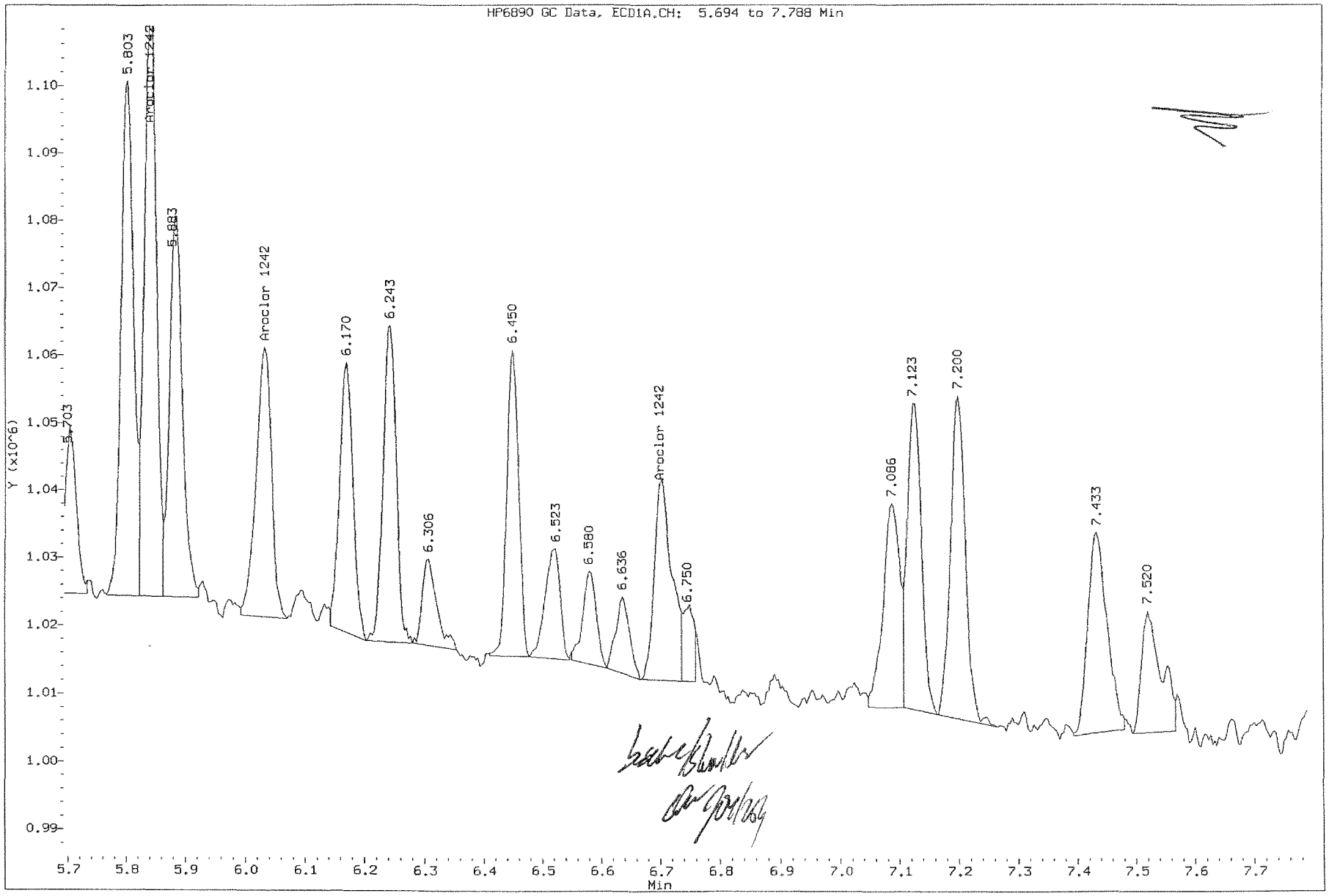
Data File: \\alklsws002\instdata\GC28\Data\042414CAL.b\0424F023.D
Injection Date: 25-APR-2014 13:28
Instrument: GC28.i
Client Sample ID:



Data File: \\alklsws002\instdata\GC28\Data\042414CAL.b\0424F023.D
Injection Date: 25-APR-2014 13:28
Instrument: GC28.i
Client Sample ID:



Data File: \\alklsws002\instdata\GC28\Data\042414CAL.b\0424F023.D
Injection Date: 25-APR-2014 13:28
Instrument: GC28.i
Client Sample ID:



Data File: \\alklsws002\instdata\GC28\Data\042414CAL.b\0424F024.D
Report Date: 26-Apr-2014 01:13

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC28\Data\042414CAL.b\0424F024.D
Sample #2 : \\alklsws002\instdata\GC28\Data\042414CAL_r.b\0424F024.D
Inj Date : 25-APR-2014 13:51
Sample Info: 4268 @ 50ppb PCB6-38E
Misc Info :
Cal Date : 26-APR-2014 01:08
Operator : JMSmith
Inst ID : GC28.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC28\Data\042414CAL.b\042414_f.m
Method #2 : \\alklsws002\instdata\GC28\Data\042414CAL_r.b\042414_r.m
Sub List #1 : 4268.sub
Sub List #2 : 4268.sub
Col #1 Phase : DB-XLB
Col #2 Phase : DB-35MS

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1242	4.837	4.317	113189	564852	59.1	56.7	80.00- 120.00	100.00(M)
	5.240	4.837	88927	430626	57.5	54.8	62.57- 93.85	78.57(M)
	5.840	5.037	264354	1399323	57.7	55.5	200.27- 300.41	233.55(M)
	6.030	5.133	139134	996799	55.8	57.9	108.95- 163.43	122.92(M)
	6.700	5.273	118855	554141	52.8	54.8	100.61- 150.91	105.01(M)
		Average of Peak Amounts =			56.6	55.9		
Aroclor 1268	11.563	9.967	1010542	6493038	55.3	55.3	80.00- 120.00	100.00
	11.727	10.093	886493	5684381	54.6	54.4	72.15- 108.23	87.72
	12.223	10.600	767188	4914881	55.0	54.2	62.05- 93.08	75.92
	13.620	11.923	2425914	14893402	55.2	53.5	200.65- 300.98	240.06
		Average of Peak Amounts =			55.0	54.4		

QC Flag Legend

M - Compound response manually integrated.

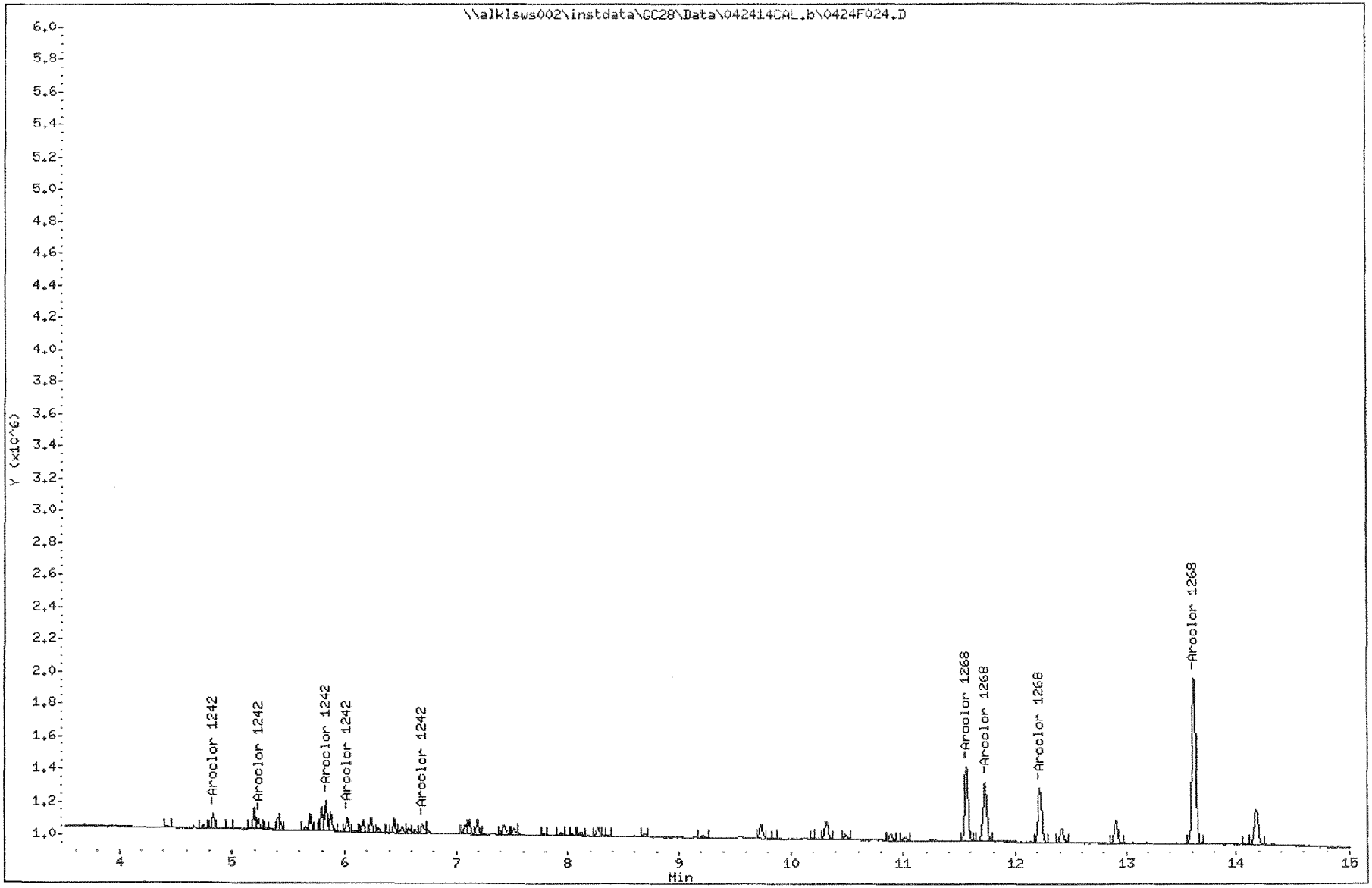
Data File: \\alklsws002\instdata\GC28\Data\042414CAL.b\0424F024.D
Date : 25-APR-2014 13:51
Client ID:
Sample Info: 4268 @ 50ppb PCB6-38E

Instrument: GC28.i

Operator: JMSmith

Column phase: DB-XLB

Column diameter: 0.32

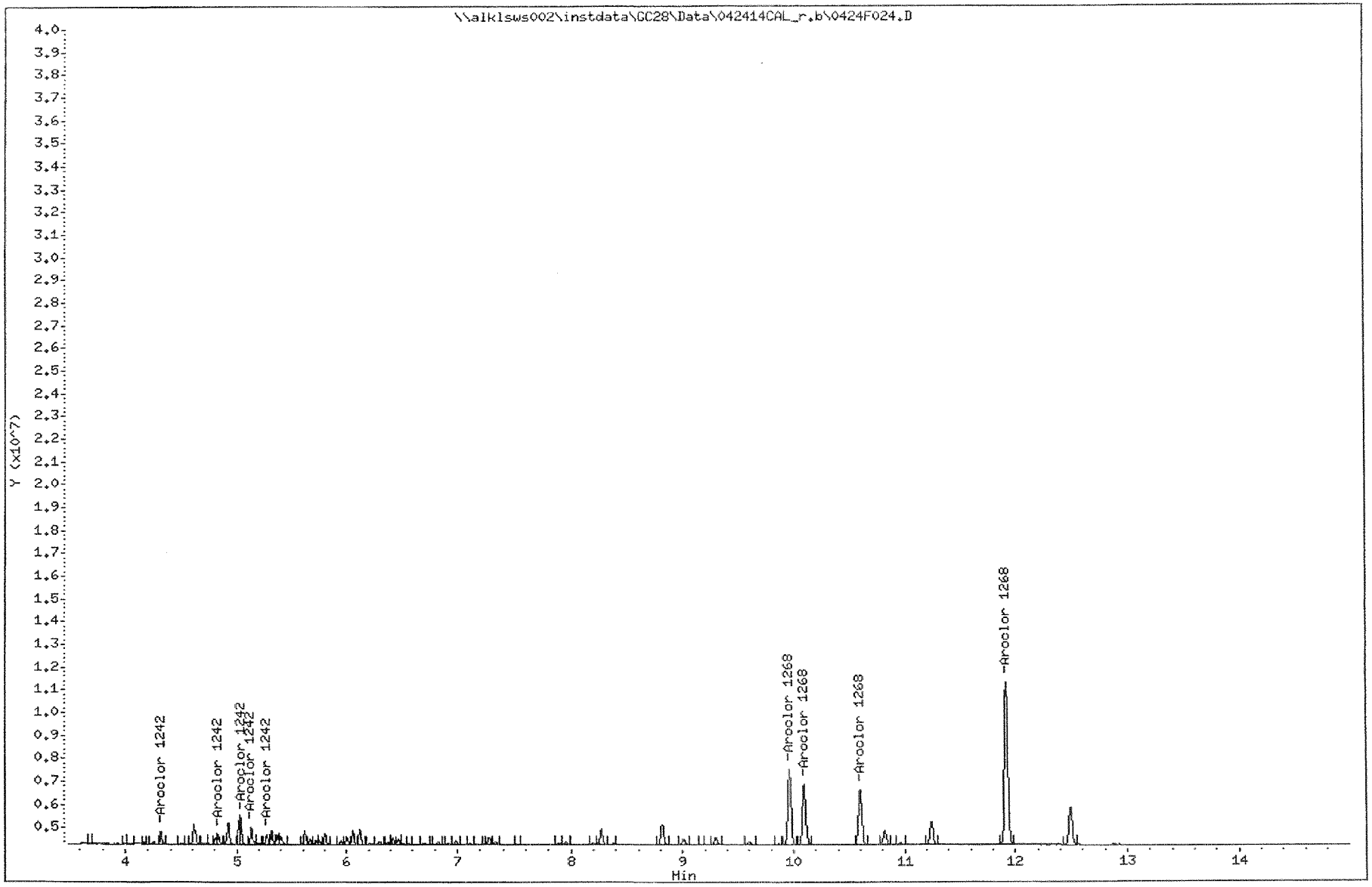


Data File: \\alklsws002\instdata\GC28\Data\042414CAL_r.b\0424F024.D
Date : 25-APR-2014 13:51
Client ID:
Sample Info: 4268 @ 50ppb PCB6-38E

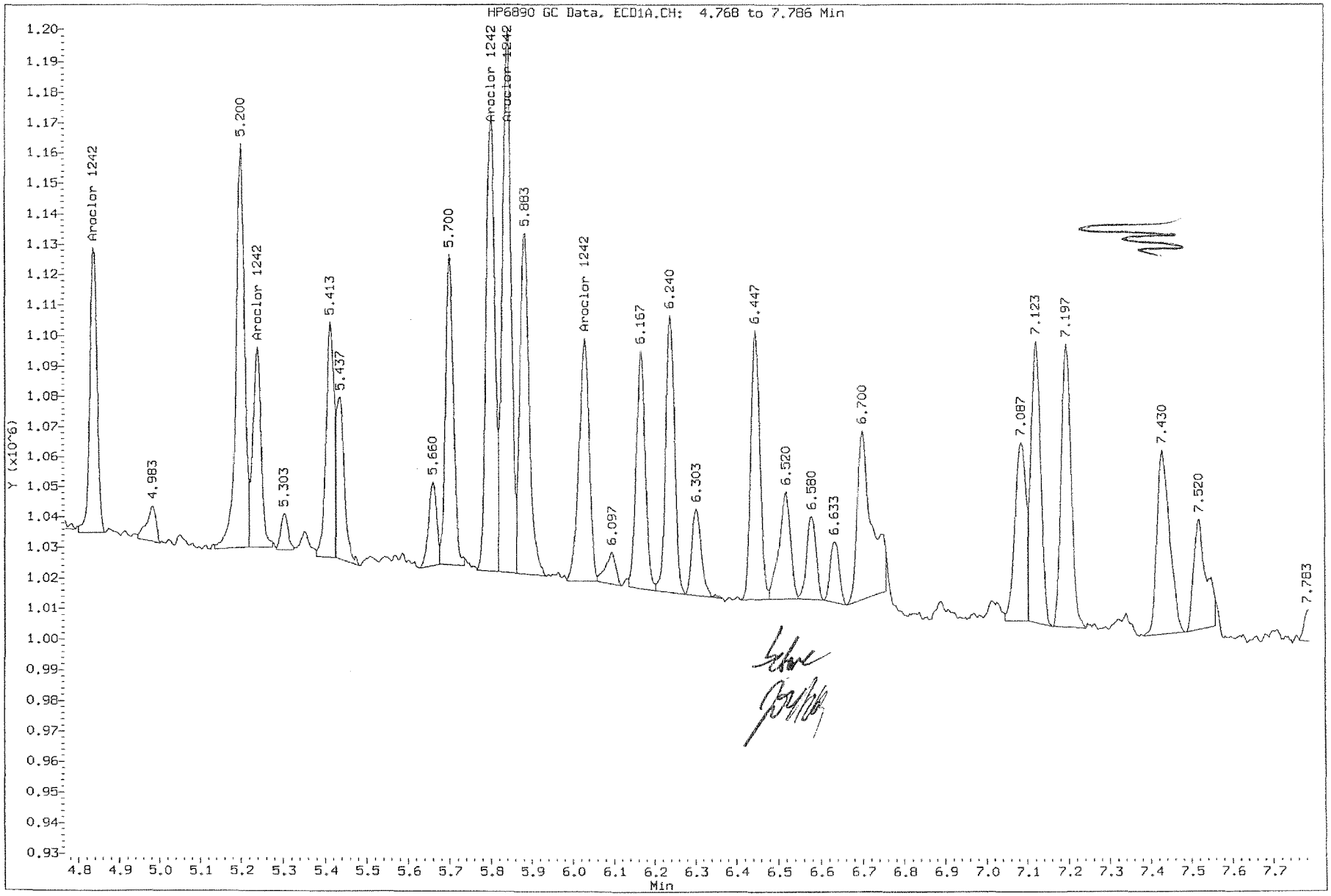
Column phase: DB-35MS

Instrument: GC28.i

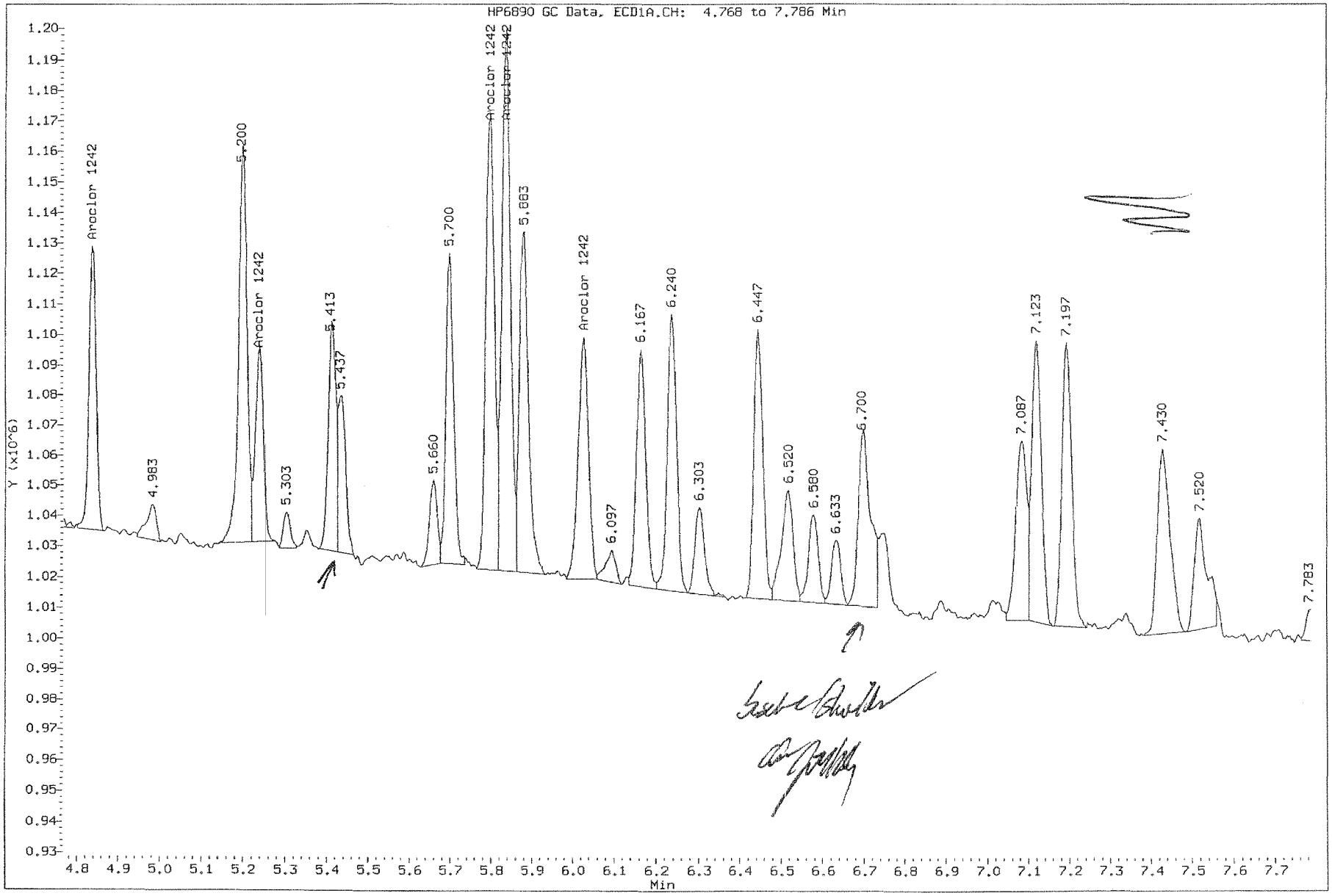
Operator: JHSmith
Column diameter: 0.32



Data File: \\alklsws002\instdata\GC28\Data\042414CAL.b\0424F024.D
Injection Date: 25-APR-2014 13:51
Instrument: GC28.i
Client Sample ID:



Data File: \\alklsws002\instdata\GC28\Data\042414CAL.b\0424F024.D
Injection Date: 25-APR-2014 13:51
Instrument: GC28.i
Client Sample ID:



Data File: \\alklsws002\instdata\GC28\Data\042414CAL.b\0424F025.D
Report Date: 26-Apr-2014 01:13

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC28\Data\042414CAL.b\0424F025.D
Sample #2 : \\alklsws002\instdata\GC28\Data\042414CAL_r.b\0424F025.D
Inj Date : 25-APR-2014 14:14
Sample Info: 4268 @ 500ppb PCB6-38D
Misc Info :
Cal Date : 26-APR-2014 01:08
Operator : JMSmith
Inst ID : GC28.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC28\Data\042414CAL.b\042414_f.m
Method #2 : \\alklsws002\instdata\GC28\Data\042414CAL_r.b\042414_r.m
Sub List #1 : 4268.sub
Sub List #2 : 4268.sub
Col #1 Phase : DB-XLB
Col #2 Phase : DB-35MS

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1242	4.836	4.316	1002362	4946978	523	496	80.00- 120.00	100.00(M)
	5.239	4.836	788695	3914013	510	498	62.57- 93.85	78.68(M)
	5.839	5.036	2348789	12424377	512	493	200.27- 300.41	234.33(M)
	6.029	5.132	1301645	8569565	522	498	108.95- 163.43	129.86(M)
	6.699	5.272	1232306	5052305	548	500	100.61- 150.91	122.94(M)
			Average of Peak Amounts =		523	497		
Aroclor 1268	11.562	9.966	9593340	59132303	525	504	80.00- 120.00	100.00
	11.729	10.092	8578827	53075413	529	508	72.15- 108.23	89.42
	12.222	10.599	7413341	46126890	532	509	62.05- 93.08	77.28
	13.619	11.922	22696428	140728018	516	505	200.65- 300.98	236.59
			Average of Peak Amounts =		526	507		

QC Flag Legend

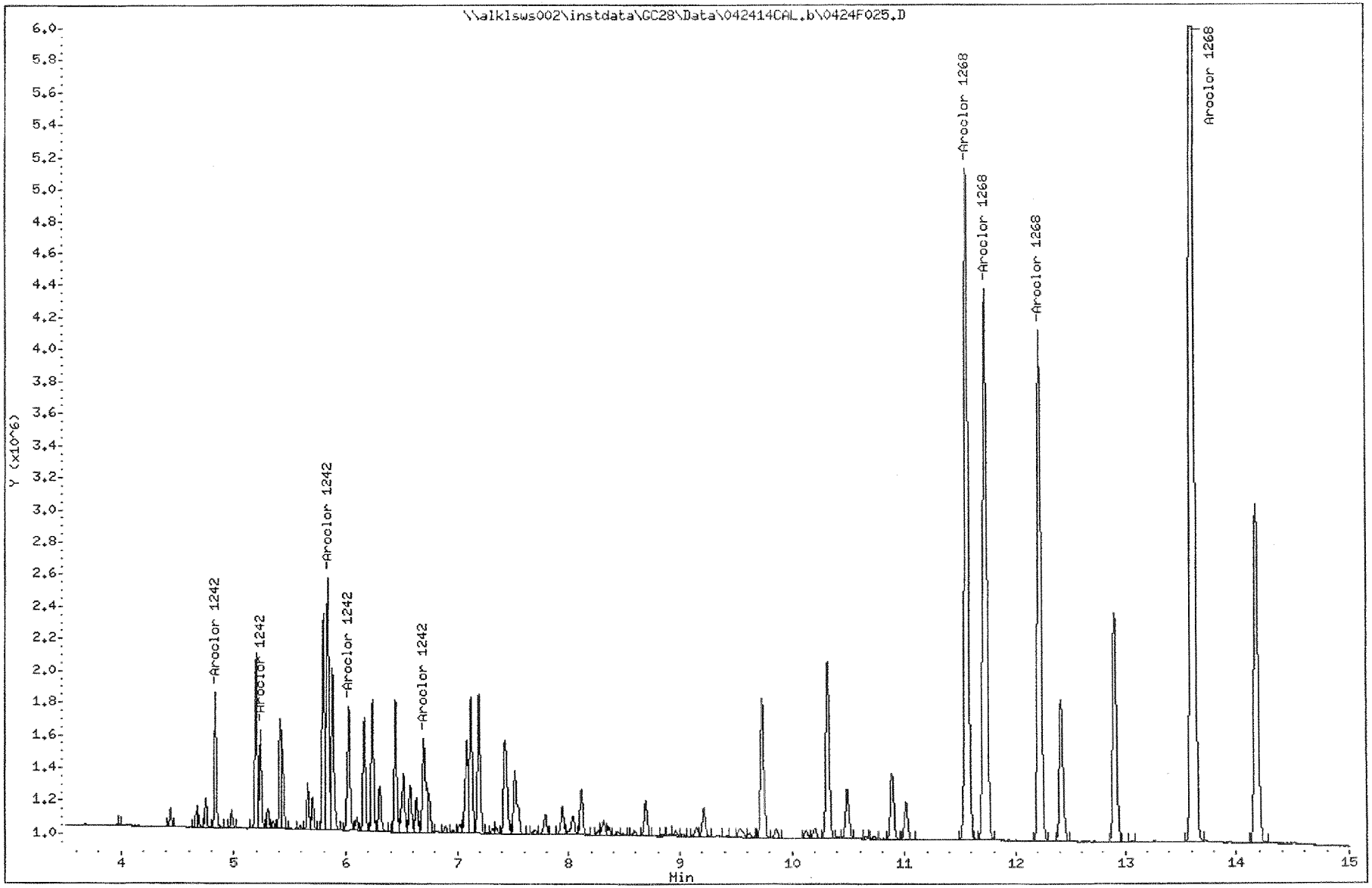
M - Compound response manually integrated.

Data File: \\alklsws002\instdata\GC28\Data\042414CAL.b\0424F025.D
Date : 25-APR-2014 14:14
Client ID:
Sample Info: 4268 @ 500ppb PCB6-38D

Column phase: DB-XLB

Instrument: GC28.i

Operator: JHSmith
Column diameter: 0.32



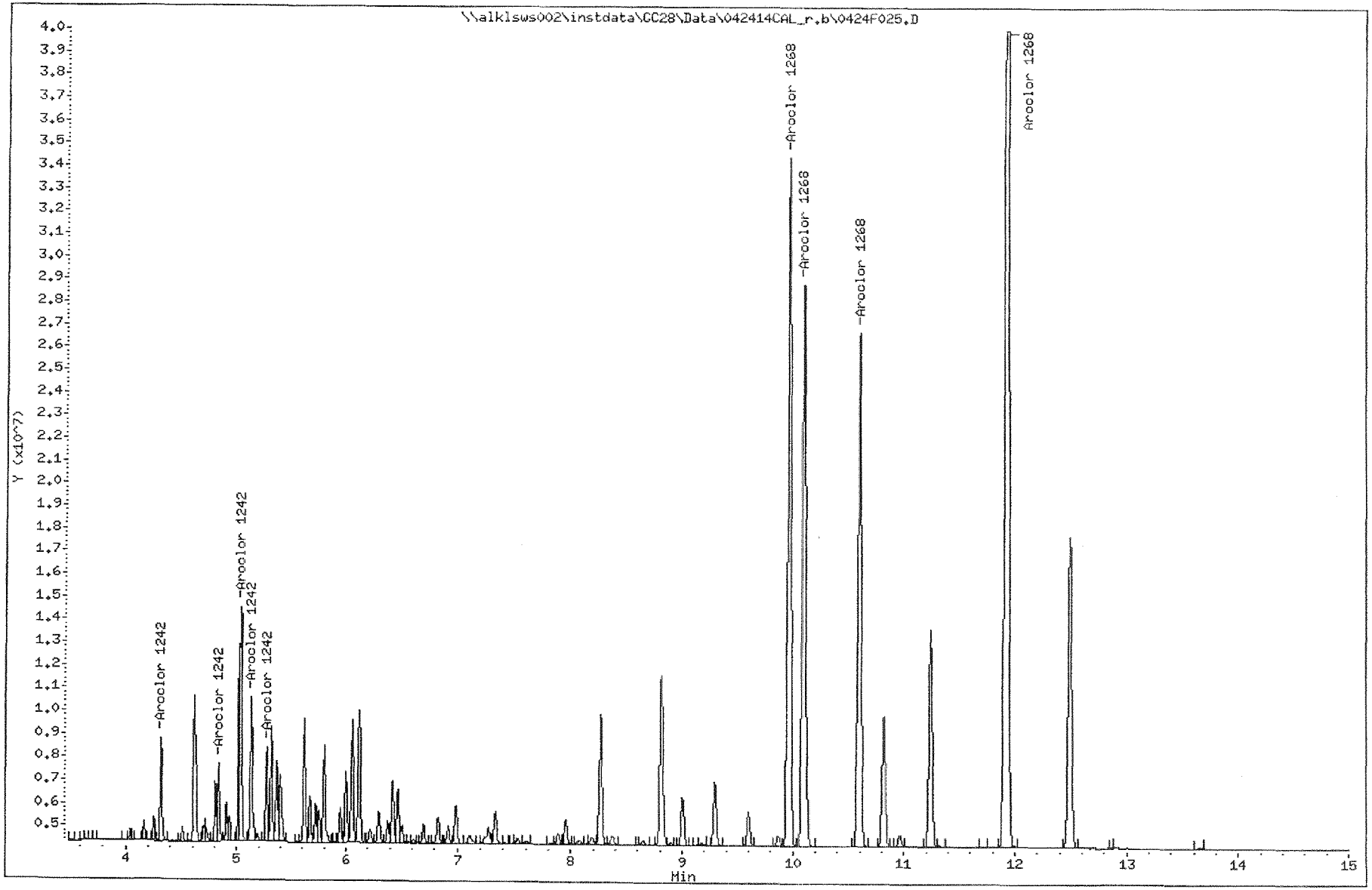
Data File: \\alklsws002\instdata\GC28\Data\042414CAL_r.b\0424F025.D
Date : 25-APR-2014 14:14
Client ID:
Sample Info: 4268 @ 500ppb PCB6-38D

Instrument: GC28.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32



Data File: \\alklsws002\instdata\GC28\Data\042414CAL.b\0424F026.D
Report Date: 26-Apr-2014 01:13

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC28\Data\042414CAL.b\0424F026.D
Sample #2 : \\alklsws002\instdata\GC28\Data\042414CAL_r.b\0424F026.D
Inj Date : 25-APR-2014 14:37
Sample Info: 4268 @ 1000ppb PCB6-38C
Misc Info :
Cal Date : 26-APR-2014 01:08
Operator : JMSmith
Inst ID : GC28.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC28\Data\042414CAL.b\042414_f.m
Method #2 : \\alklsws002\instdata\GC28\Data\042414CAL_r.b\042414_r.m
Sub List #1 : 4268.sub
Sub List #2 : 4268.sub
Col #1 Phase : DB-XLB
Col #2 Phase : DB-35MS

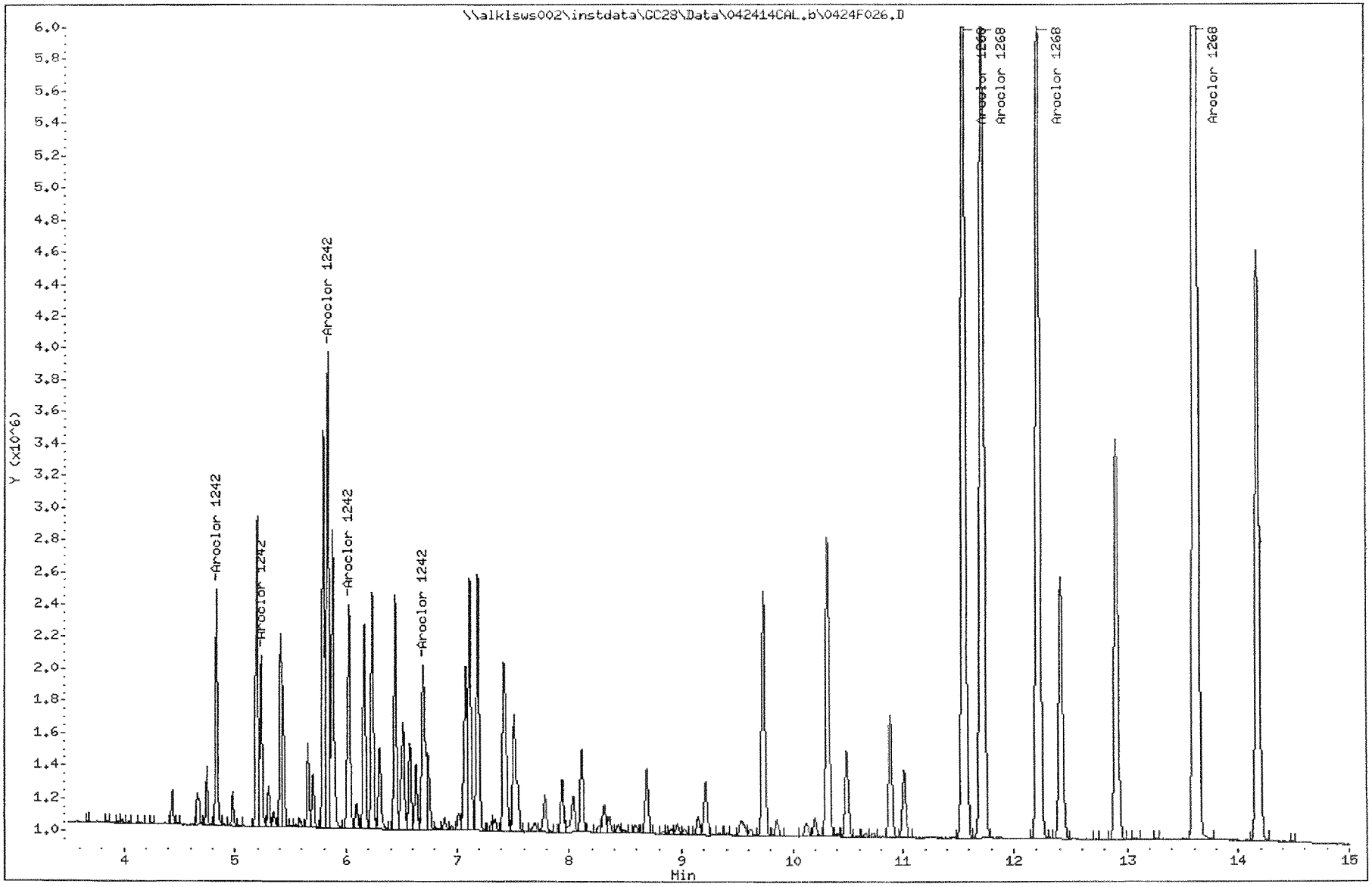
Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1242	4.836	4.313	1824050	9171322	952	920	80.00- 120.00	100.00
	5.236	4.836	1428571	7428270	924	946	62.57- 93.85	78.32
	5.836	5.036	4358622	23028963	951	914	200.27- 300.41	238.95
	6.029	5.133	2395796	15962216	961	927	108.95- 163.43	131.34
	6.699	5.273	2189049	9527565	973	942	100.61- 150.91	120.01
			Average of Peak Amounts =		952	930		
Aroclor 1268	11.559	9.963	17185469	112073790	941	954	80.00- 120.00	100.00
	11.726	10.093	15427798	100957273	951	966	72.15- 108.23	89.77
	12.223	10.596	13309782	87713564	954	968	62.05- 93.08	77.45
	13.619	11.919	41380522	269717842	941	968	200.65- 300.98	240.79
			Average of Peak Amounts =		947	964		

Data File: \\alklsws002\instdata\GC28\Data\042414CAL.b\0424F026.D
Date : 25-APR-2014 14:37
Client ID:
Sample Info: 4268 @ 1000ppb PCB6-38C

Column phase: DB-XLB

Instrument: GC28.i

Operator: JMSmith
Column diameter: 0.32

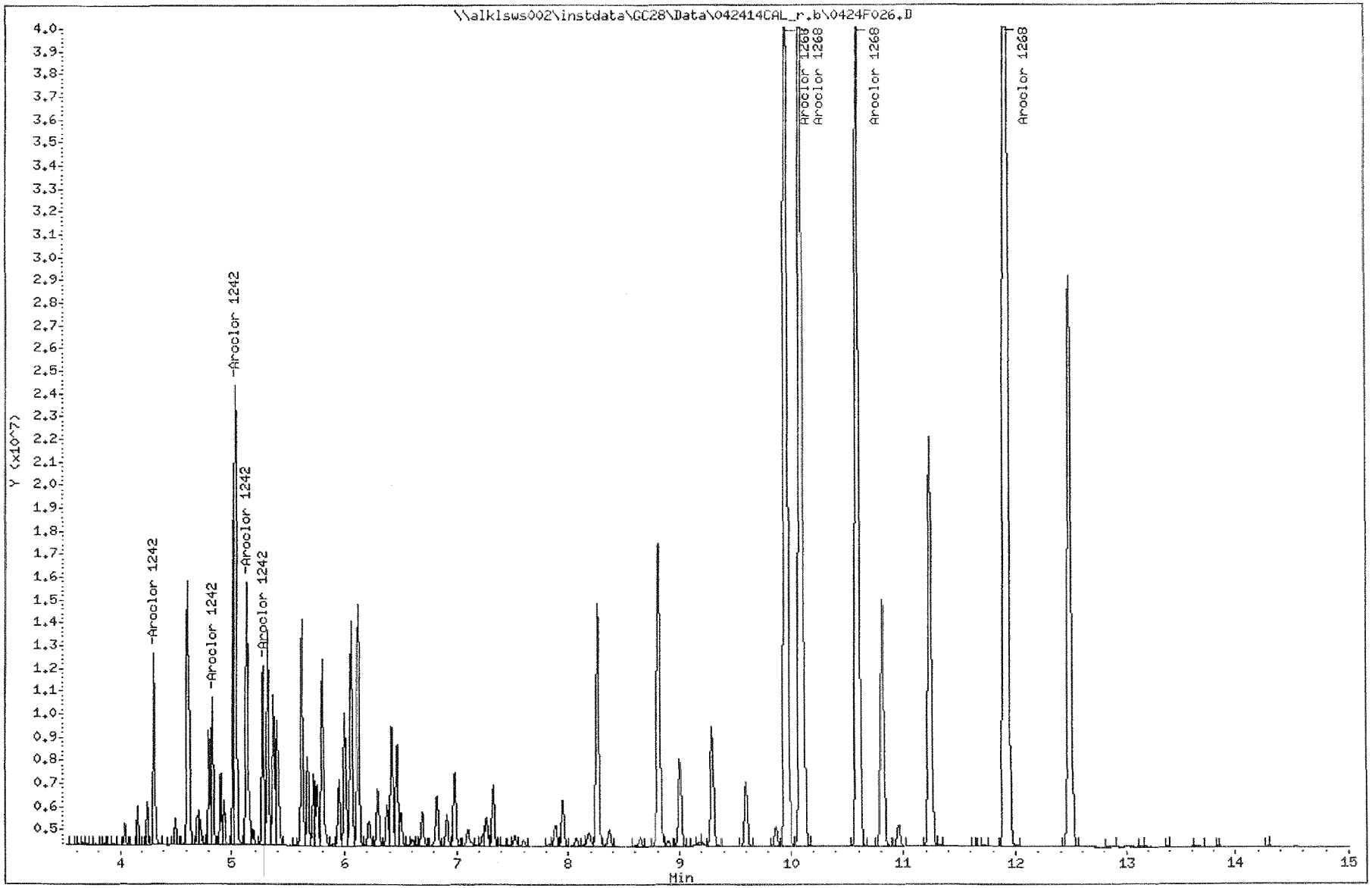


Data File: \\alklsws002\instdata\GC28\Data\042414CAL_r.b\0424F026.D
Date : 25-APR-2014 14:37
Client ID:
Sample Info: 4268 @ 1000ppb PCB6-38C

Column phase: DB-35MS

Instrument: GC28.i

Operator: JMSmith
Column diameter: 0.32



Data File: \\alklsws002\instdata\GC28\Data\042414CAL.b\0424F027.D
Report Date: 26-Apr-2014 01:13

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC28\Data\042414CAL.b\0424F027.D
Sample #2 : \\alklsws002\instdata\GC28\Data\042414CAL_r.b\0424F027.D
Inj Date : 25-APR-2014 15:00
Sample Info: 4268 @ 2000ppb PCB6-38B
Misc Info :
Cal Date : 26-APR-2014 01:08
Operator : JMSmith
Inst ID : GC28.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC28\Data\042414CAL.b\042414_f.m
Method #2 : \\alklsws002\instdata\GC28\Data\042414CAL_r.b\042414_r.m
Sub List #1 : 4268.sub
Sub List #2 : 4268.sub
Col #1 Phase : DB-XLB
Col #2 Phase : DB-35MS

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1242	4.835	4.315	3430692	17711768	1790	1780	80.00- 120.00	100.00
	5.238	4.835	2693766	13885012	1740	1770	62.57- 93.85	78.52
	5.838	5.035	8371857	47710355	1830	1890	200.27- 300.41	244.03
	6.028	5.132	4574272	31207075	1830	1810	108.95- 163.43	133.33
	6.698	5.272	4273990	19219596	1900	1900	100.61- 150.91	124.58
			Average of Peak Amounts =		1820	1830		
Aroclor 1268	11.562	9.962	33116598	218544764	1810	1860	80.00- 120.00	100.00
	11.725	10.092	29730982	197389860	1830	1890	72.15- 108.23	89.78
	12.218	10.595	25639609	171325798	1840	1890	62.05- 93.08	77.42
	13.618	11.918	81124036	529599866	1840	1900	200.65- 300.98	244.96
			Average of Peak Amounts =		1830	1890		

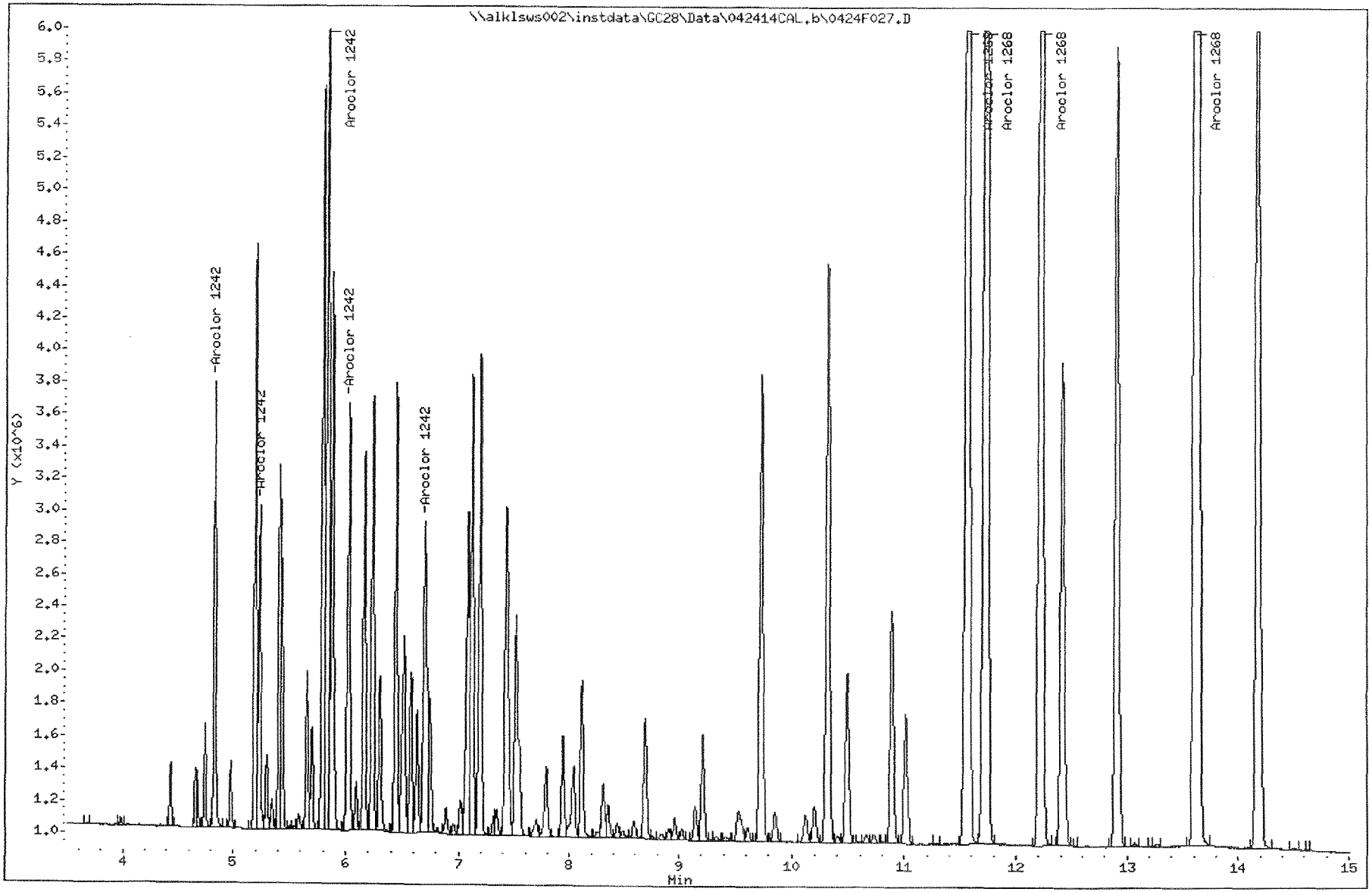
Data File: \\alklsws002\instdata\GC28\Data\042414CAL.b\0424F027.D
Date : 25-APR-2014 15:00
Client ID:
Sample Info: 4268 @ 2000ppb PCB6-38B

Instrument: GC28.i

Operator: JMSmith

Column phase: DB-XLB

Column diameter: 0.32

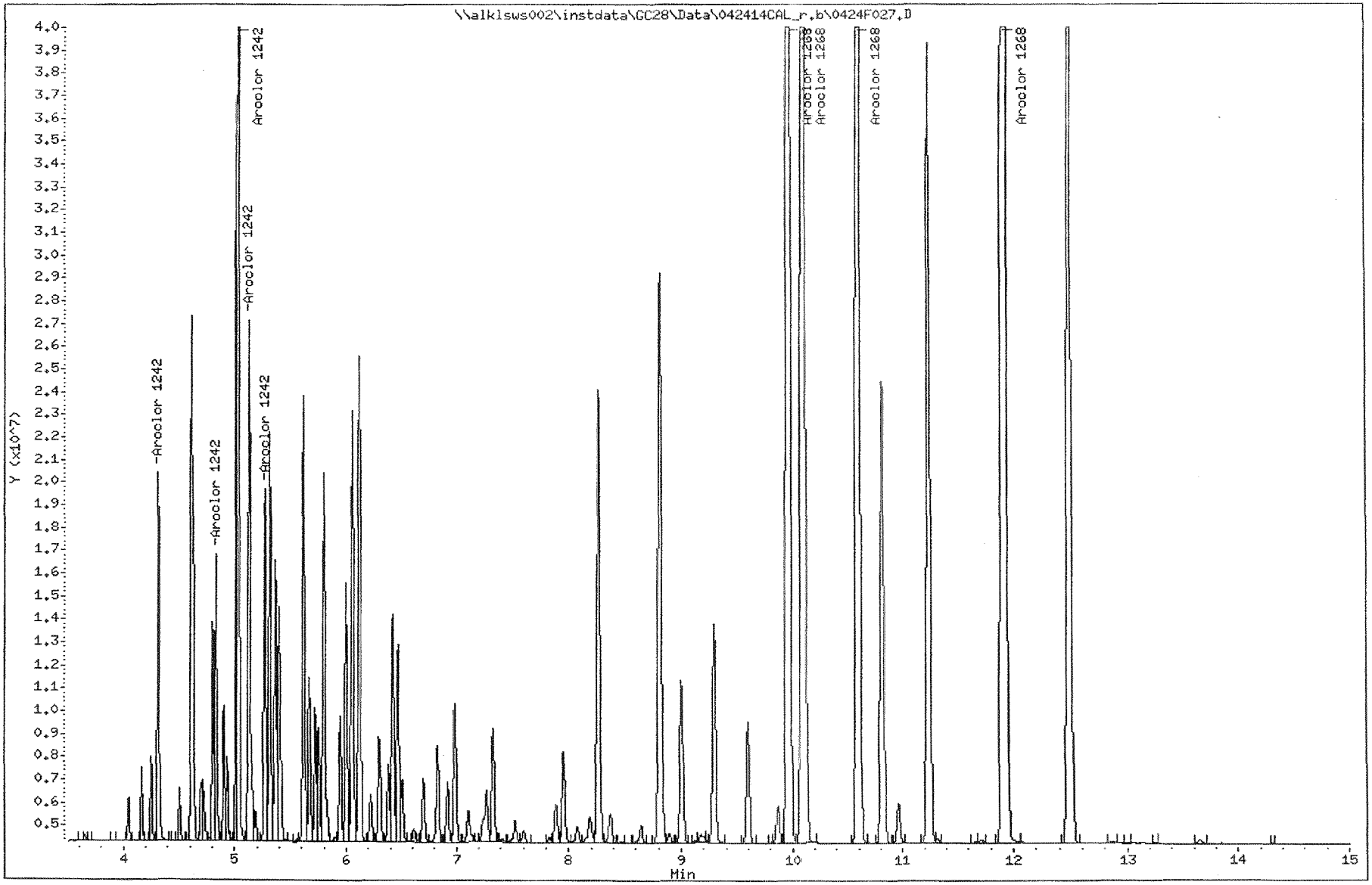


Data File: \\alklsws002\instdata\GC28\Data\042414CAL_r.b\0424F027.D
Date : 25-APR-2014 15:00
Client ID:
Sample Info: 4268 @ 2000ppb PCB6-38B

Column phase: DB-35MS

Instrument: GC28.i

Operator: JMSmith
Column diameter: 0.32



Data File: \\alklsws002\instdata\GC28\Data\042414CAL.b\0424F028.D
Report Date: 26-Apr-2014 01:13

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC28\Data\042414CAL.b\0424F028.D
Sample #2 : \\alklsws002\instdata\GC28\Data\042414CAL_r.b\0424F028.D
Inj Date : 25-APR-2014 15:23
Sample Info: 4268 @ 5000ppb PCB6-38A
Misc Info :
Cal Date : 26-APR-2014 01:08
Operator : JMSmith
Inst ID : GC28.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC28\Data\042414CAL.b\042414_f.m
Method #2 : \\alklsws002\instdata\GC28\Data\042414CAL_r.b\042414_r.m
Sub List #1 : 4268.sub
Sub List #2 : 4268.sub
Col #1 Phase : DB-XLB
Col #2 Phase : DB-35MS

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1242	4.838	4.315	7493499	40597002	3910	4070	80.00- 120.00	100.00
	5.238	4.835	5860721	32010266	3790	4070	62.57- 93.85	78.21
	5.838	5.035	18759212	117974271	4090	4680	200.27- 300.41	250.34
	6.028	5.132	10205450	72423785	4090	4210	108.95- 163.43	136.19
	6.698	5.272	9423601	45641947	4190	4510	100.61- 150.91	125.76
			Average of Peak Amounts =		4010	4310		
Aroclor 1268	11.562	9.965	78966261	513912917	4320	4380	80.00- 120.00	100.00
	11.728	10.095	71221546	465413699	4390	4450	72.15- 108.23	90.19
	12.222	10.595	61248760	403674530	4390	4450	62.05- 93.08	77.56
	13.622	11.922	198060201	1258098279	4500	4520	200.65- 300.98	250.82
			Average of Peak Amounts =		4400	4450		

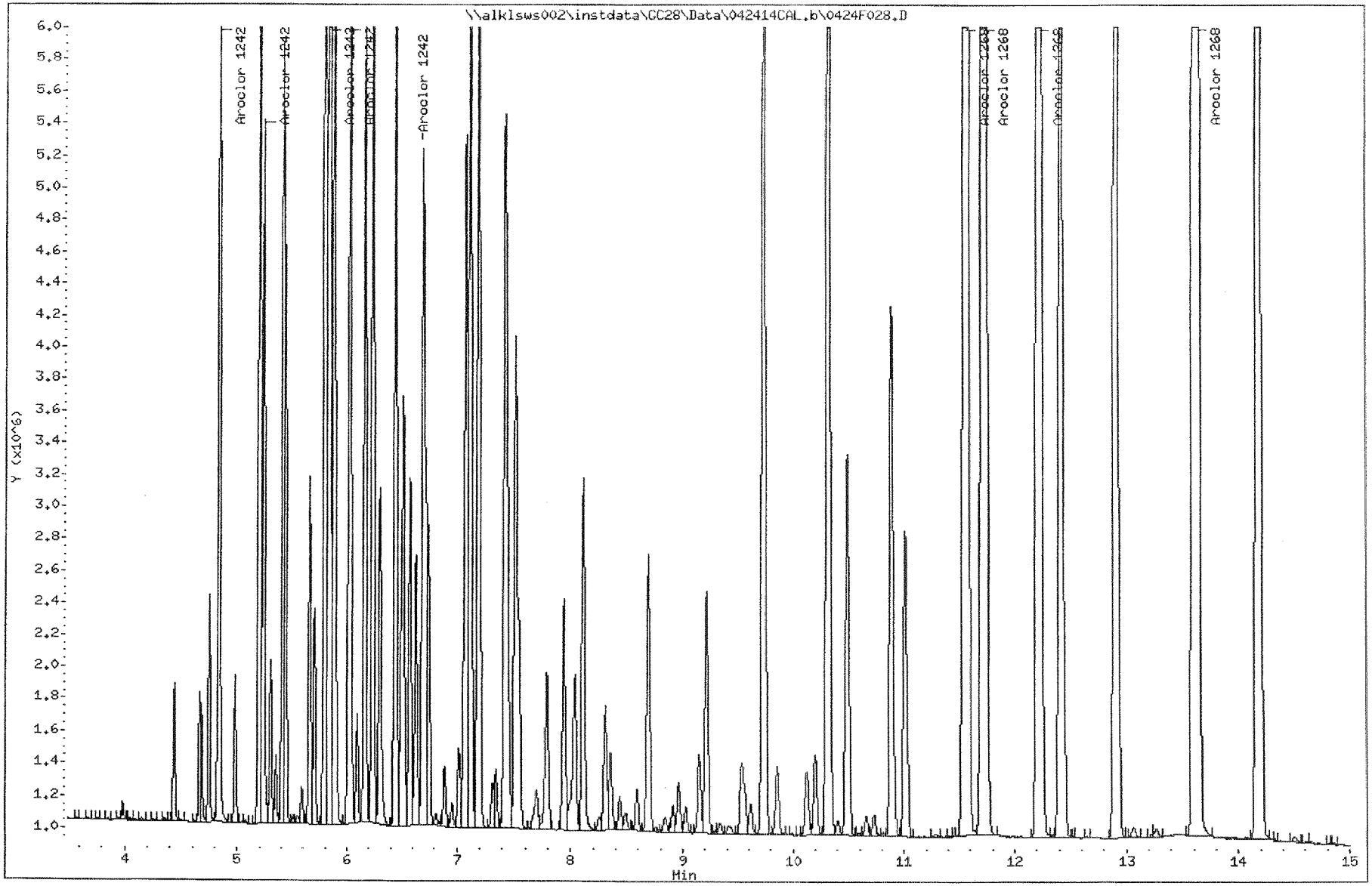
Data File: \\alklsws002\instdata\GC28\Data\042414CAL.b\0424F028.D
Date : 25-APR-2014 15:23
Client ID:
Sample Info: 4268 @ 5000ppb PCB6-38A

Instrument: GC28.i

Operator: JMSmith

Column phase: DB-XLB

Column diameter: 0.32



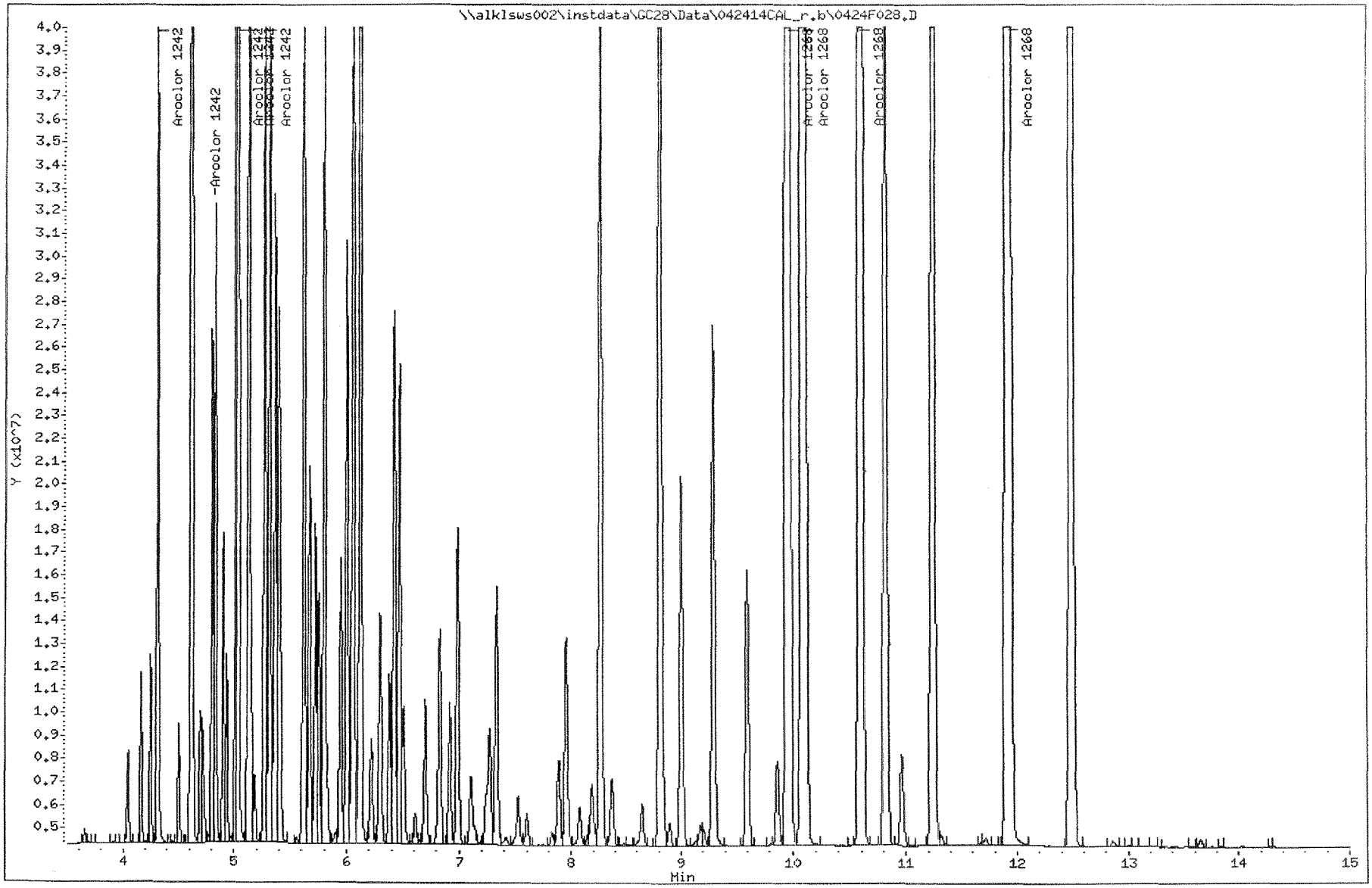
Data File: \\alklsws002\instdata\GC28\Data\042414CAL_r.b\0424F028.D
Date : 25-APR-2014 15:23
Client ID:
Sample Info: 4268 @ 5000ppb PCB6-38A

Instrument: GC28.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32



Data File: \\alklsws002\instdata\GC28\Data\042414CAL.b\0424F029.D
Report Date: 26-Apr-2014 01:13

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC28\Data\042414CAL.b\0424F029.D
Sample #2 : \\alklsws002\instdata\GC28\Data\042414CAL_r.b\0424F029.D
Inj Date : 25-APR-2014 15:46
Sample Info: 48 @ 25ppb PCB6-38K
Misc Info :
Cal Date : 26-APR-2014 01:08
Operator : JMSmith
Inst ID : GC28.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC28\Data\042414CAL.b\042414_f.m
Method #2 : \\alklsws002\instdata\GC28\Data\042414CAL_r.b\042414_r.m
Sub List #1 : 48.SUB
Sub List #2 : 48.SUB
Col #1 Phase : DB-XLB
Col #2 Phase : DB-35MS

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1248	5.798	5.035	84870	428139	29.9	30.3	80.00- 120.00	100.00
	5.835	5.399	78381	382666	27.5	30.5	79.54- 119.30	92.35
	6.238	5.802	106877	556987	31.2	29.8	91.51- 137.26	125.93
	6.698	6.002	79516	418762	28.1	29.3	81.84- 122.77	93.69
	7.195	6.425	142932	361140	30.4	27.9	133.28- 199.93	168.41
		Average of Peak Amounts =			29.4	29.6		

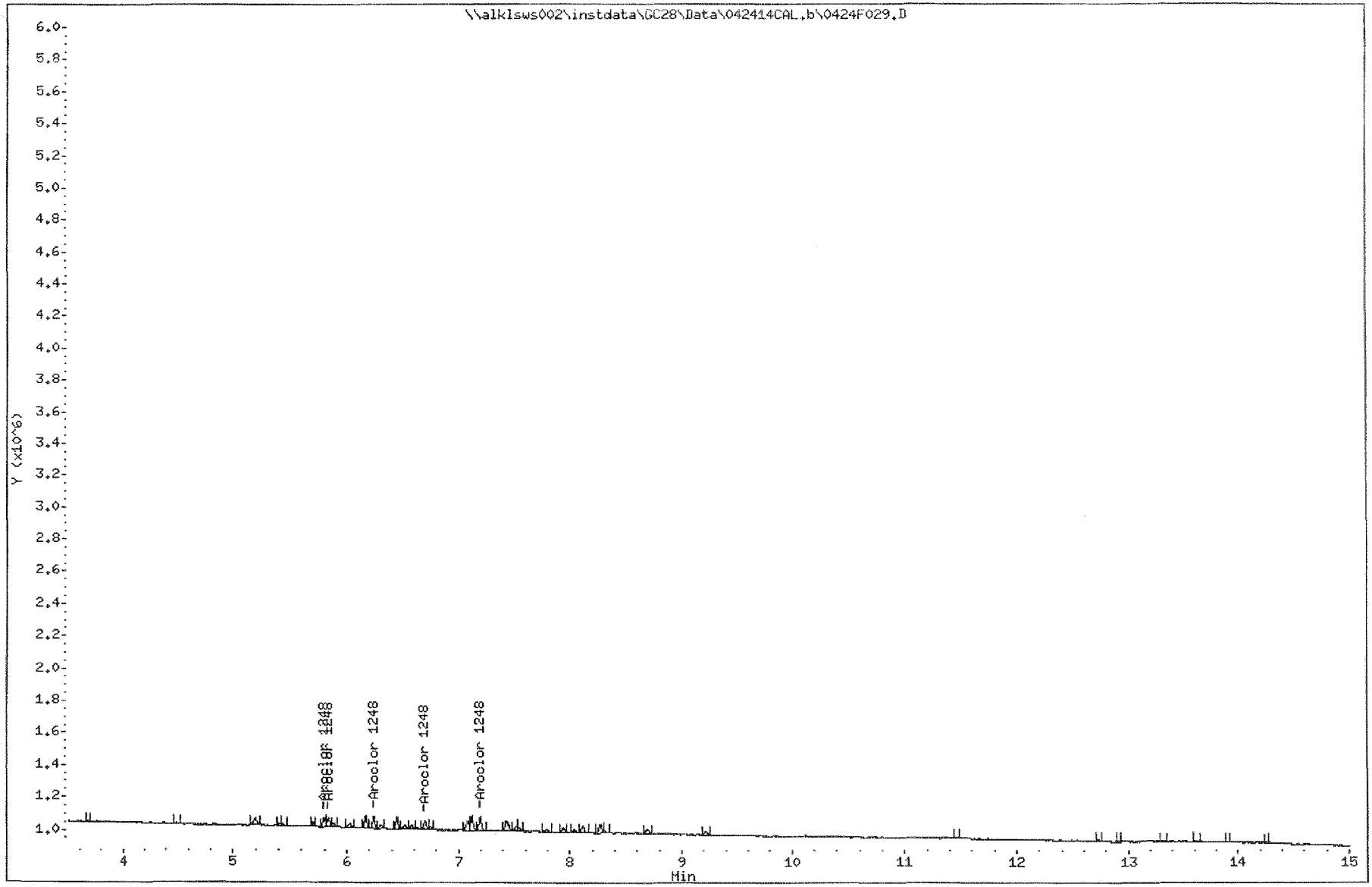
Data File: \\alklsws002\instdata\GC28\Data\042414CAL.b\0424F029.D
Date : 25-APR-2014 15:46
Client ID:
Sample Info: 48 @ 25ppb PCB6-38K

Instrument: GC28.i

Operator: JMSmith

Column phase: DB-XLB

Column diameter: 0.32

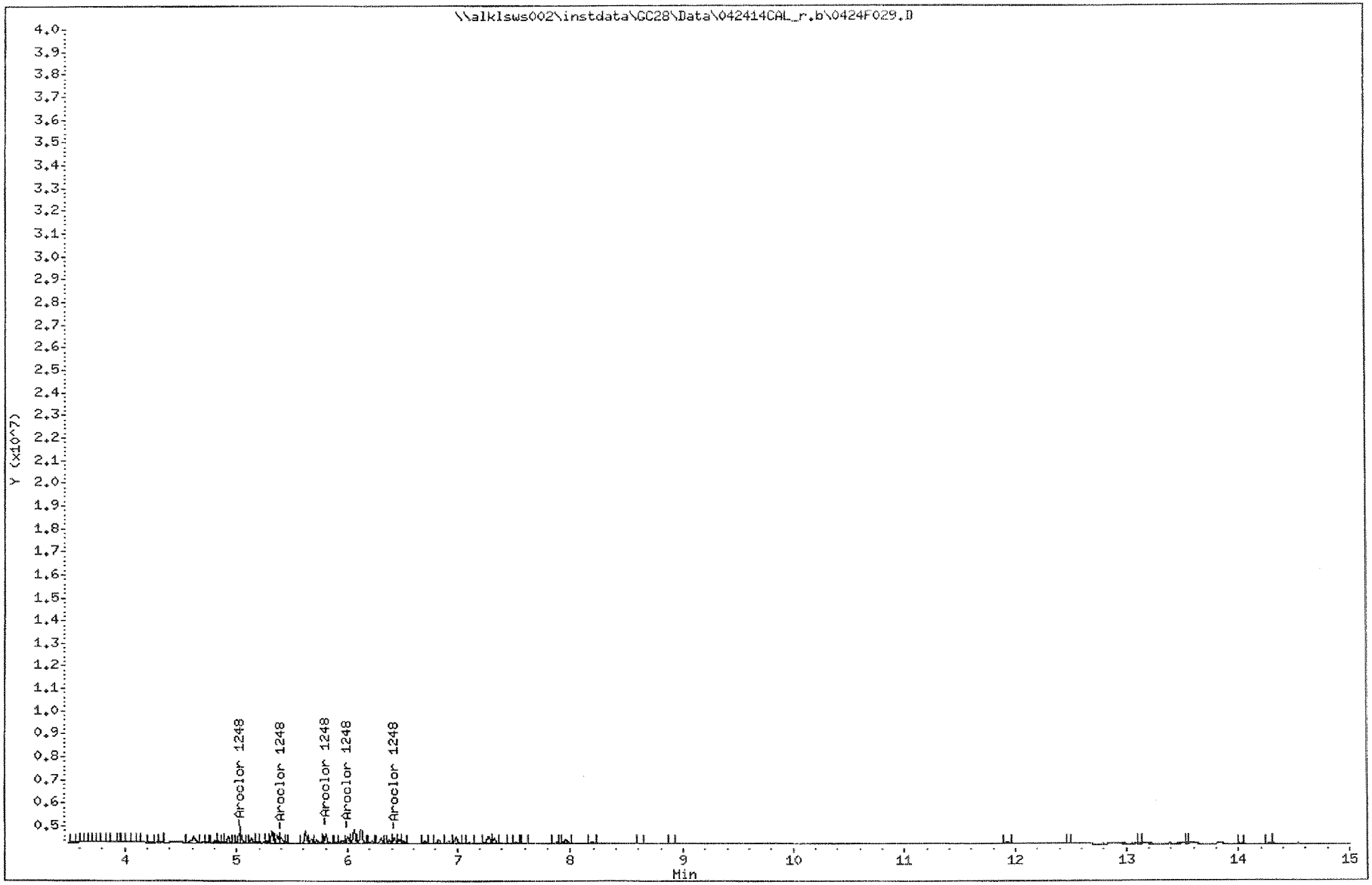


Data File: \\alklsws002\instdata\GC28\Data\042414CAL_r.b\0424F029.D
Date : 25-APR-2014 15:46
Client ID:
Sample Info: 48 @ 25ppb PCB6-38K

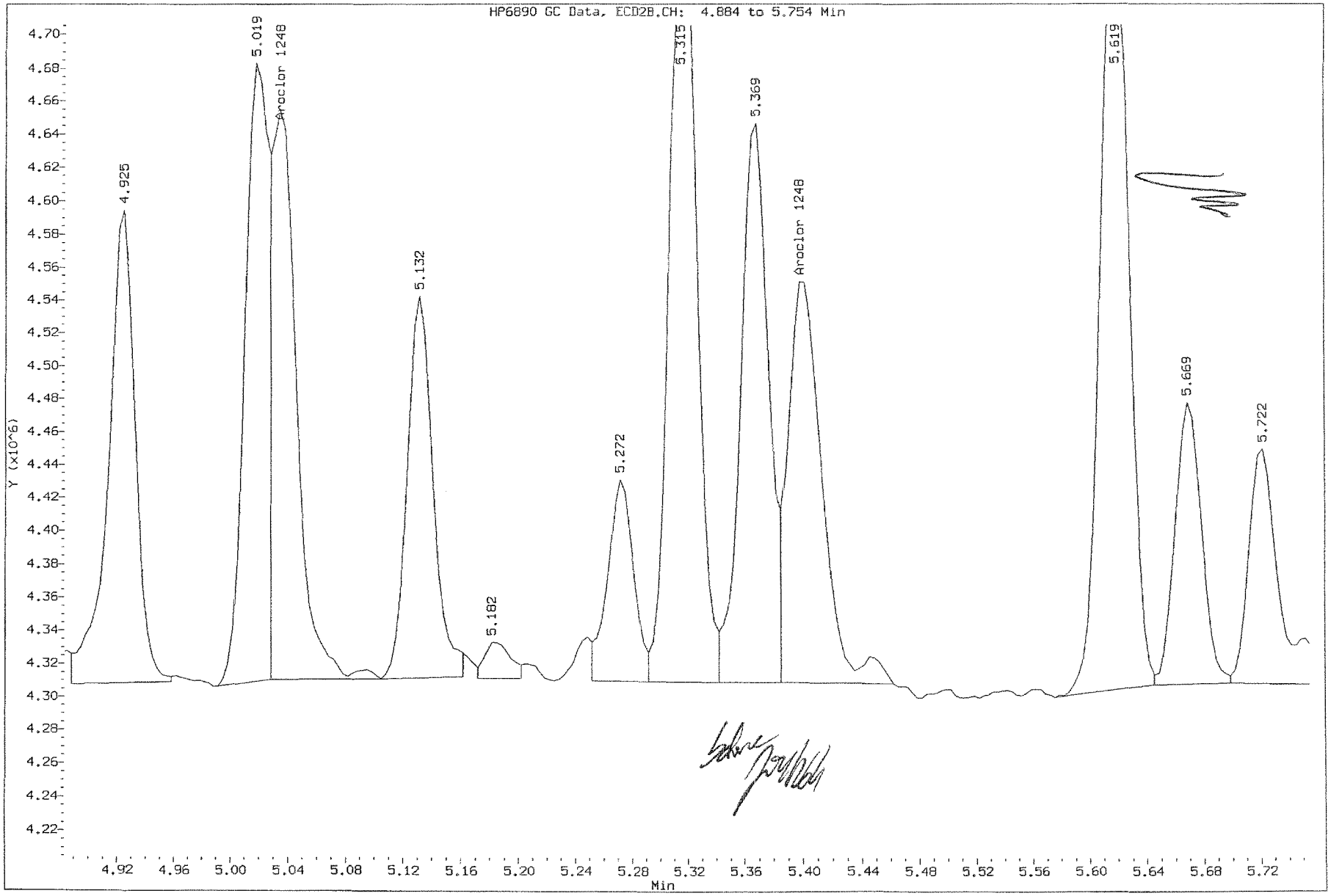
Column phase: DB-35MS

Instrument: GC28.i

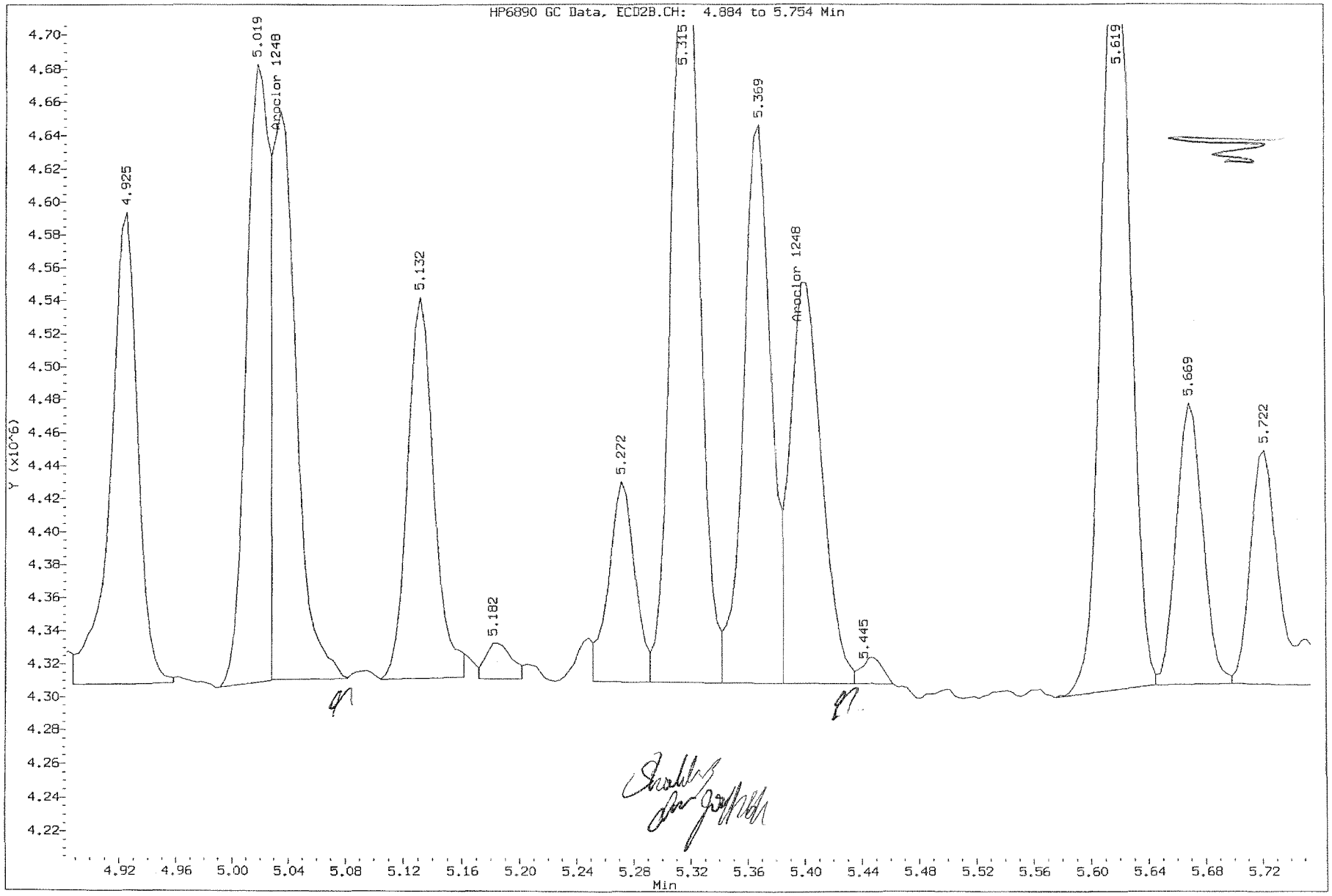
Operator: JMSmith
Column diameter: 0.32



Data File: \\alklsws002\instdata\GC28\Data\042414CAL_r.b\0424F029.D
Injection Date: 25-APR-2014 15:46
Instrument: GC28.i
Client Sample ID:



Data File: \\alklsws002\instdata\GC28\Data\042414CAL_r.b\0424F029.D
Injection Date: 25-APR-2014 15:46
Instrument: GC28.i
Client Sample ID:



Data File: \\alklsws002\instdata\GC28\Data\042414CAL.b\0424F030.D
Report Date: 26-Apr-2014 01:13

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC28\Data\042414CAL.b\0424F030.D
Sample #2 : \\alklsws002\instdata\GC28\Data\042414CAL_r.b\0424F030.D
Inj Date : 25-APR-2014 16:09
Sample Info: 48 @ 50ppb PCB6-38L
Misc Info :
Cal Date : 26-APR-2014 01:08
Operator : JMSmith
Inst ID : GC28.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC28\Data\042414CAL.b\042414_f.m
Method #2 : \\alklsws002\instdata\GC28\Data\042414CAL_r.b\0424I4_r.m
Sub List #1 : 48.SUB
Sub List #2 : 48.SUB
Col #1 Phase : DB-XLB
Col #2 Phase : DB-35MS

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1248	5.800	5.037	168941	732514	59.5	51.9	80.00- 120.00	100.00
	5.840	5.400	163881	681786	57.4	54.3	79.54- 119.30	97.00
	6.240	5.803	201476	1055184	58.8	56.4	91.51- 137.26	119.26
	6.700	6.003	158084	766528	55.8	53.7	81.84- 122.77	93.57
	7.197	6.427	265663	716561	56.6	55.3	133.28- 199.93	157.25
			Average of Peak Amounts =		57.6	54.3		

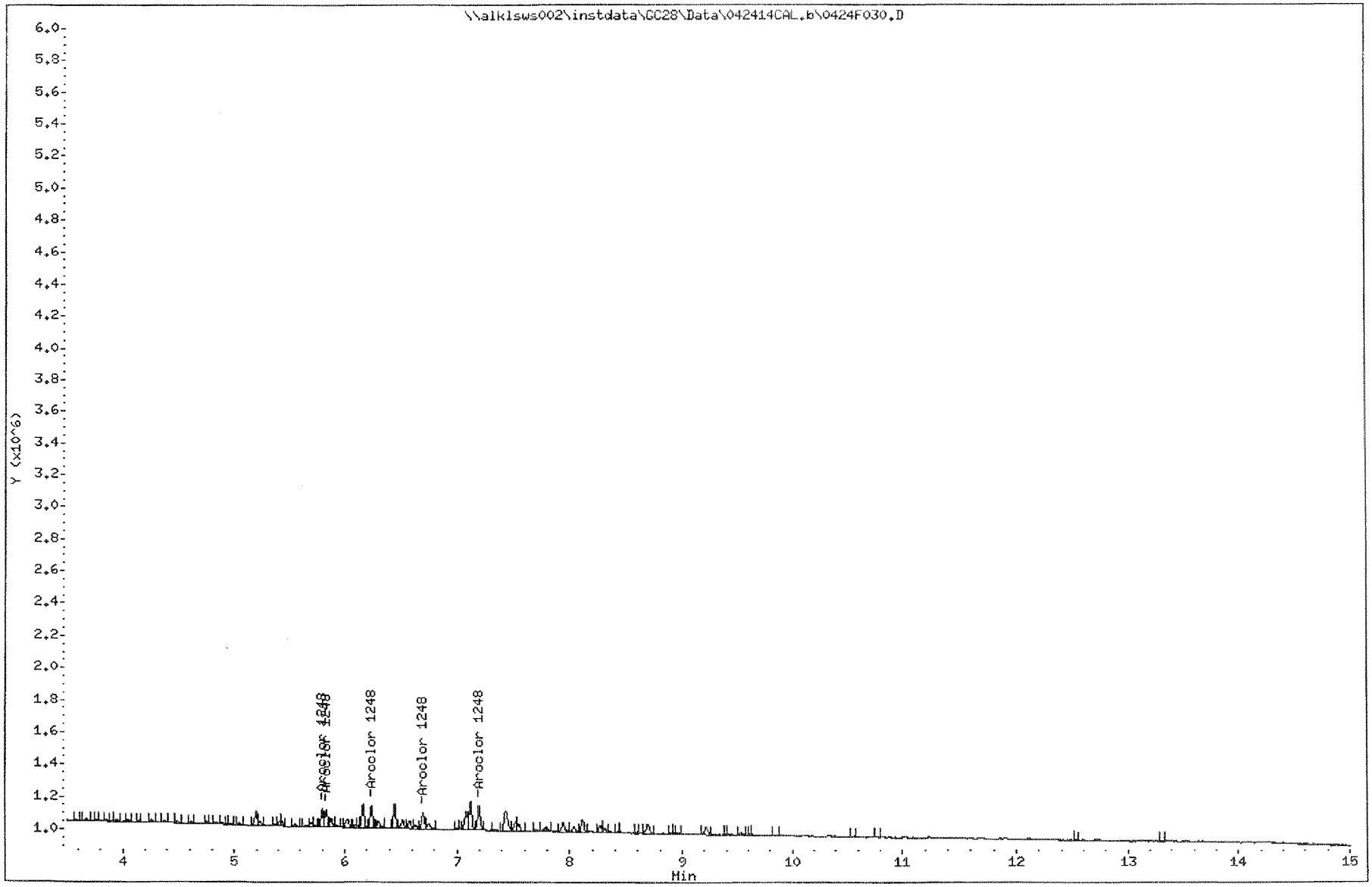
Data File: \\alklsws002\instdata\GC28\Data\042414CAL.b\0424F030.D
Date : 25-APR-2014 16:09
Client ID:
Sample Info: 48 @ 50ppb PCB6-38L

Instrument: GC28.i

Operator: JMSmith

Column phase: DB-XLB

Column diameter: 0.32



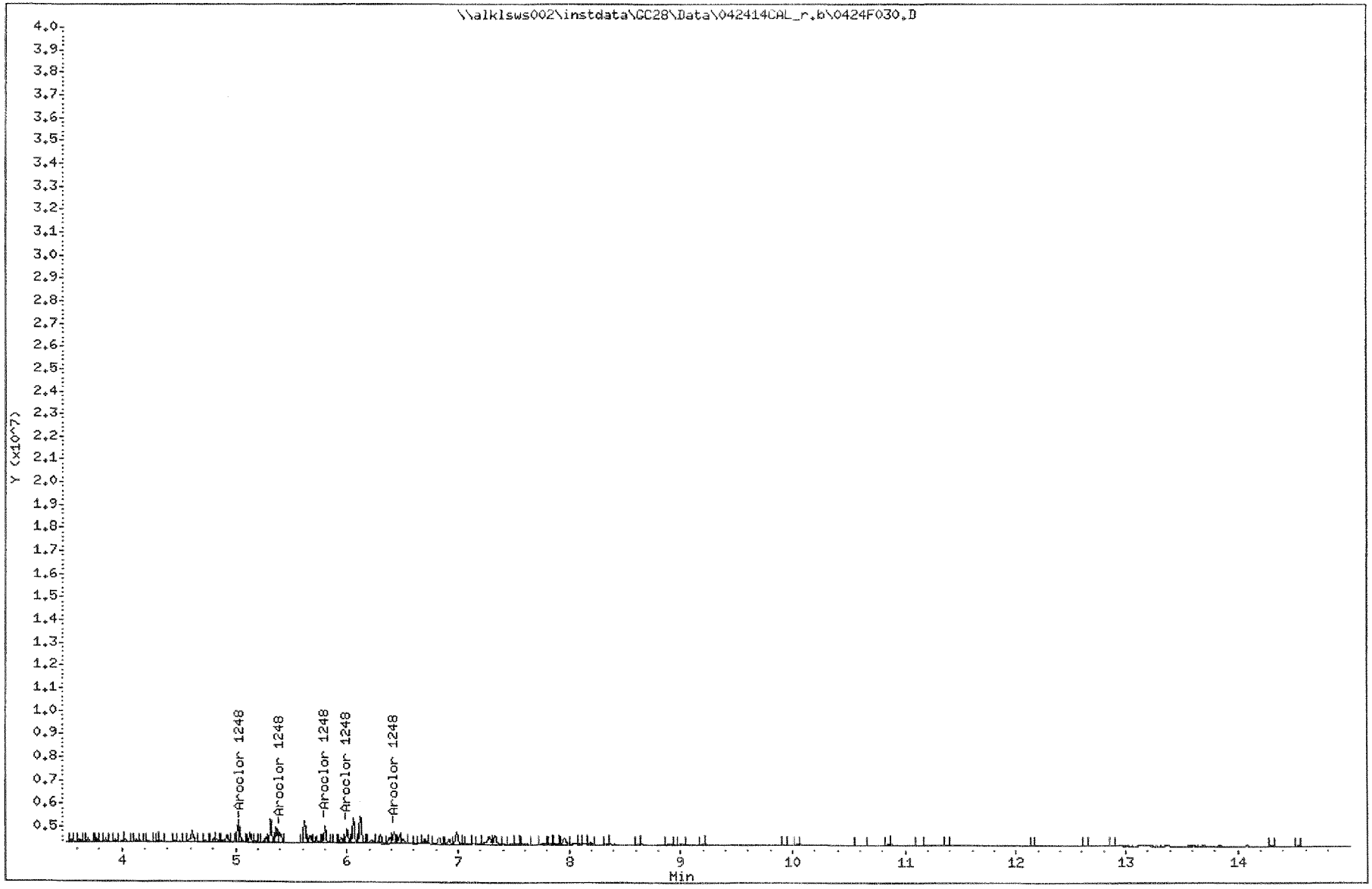
Data File: \\alklsws002\instdata\GC28\Data\042414CAL_r.b\0424F030.D
Date : 25-APR-2014 16:09
Client ID:
Sample Info: 48 @ 50ppb PCB6-38L

Instrument: GC28.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32



Data File: \\alklsws002\instdata\GC28\Data\042414CAL.b\0424F031.D
Report Date: 26-Apr-2014 01:13

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC28\Data\042414CAL.b\0424F031.D
Sample #2 : \\alklsws002\instdata\GC28\Data\042414CAL_r.b\0424F031.D
Inj Date : 25-APR-2014 16:32
Sample Info: 48 @ 500ppb PCB6-38J
Misc Info :
Cal Date : 26-APR-2014 01:08
Operator : JMSmith
Inst ID : GC28.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC28\Data\042414CAL.b\042414_f.m
Method #2 : \\alklsws002\instdata\GC28\Data\042414CAL_r.b\042414_r.m
Sub List #1 : 48.SUB
Sub List #2 : 48.SUB
Col #1 Phase : DB-XLB
Col #2 Phase : DB-35MS

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1248	5.801	5.037	1370602	6951484	483	493	80.00- 120.00	100.00
	5.837	5.401	1471739	6338626	516	505	79.54- 119.30	107.38
	6.237	5.804	1678550	8888037	490	475	91.51- 137.26	122.47
	6.700	6.004	1404188	7016064	496	492	81.84- 122.77	102.45
	7.194	6.427	2267694	6270634	483	484	133.28- 199.93	165.45
		Average of Peak Amounts =			494	490		

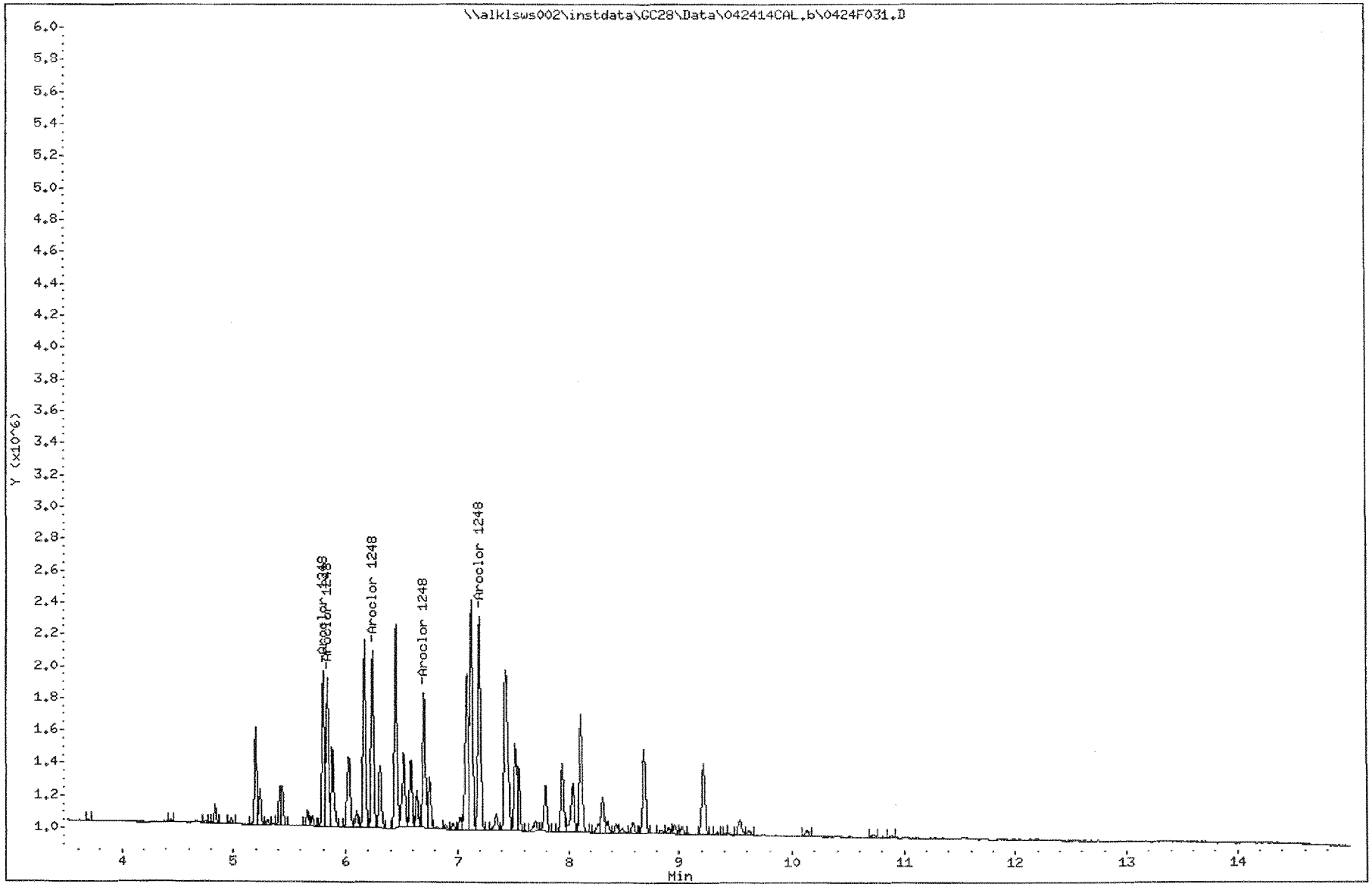
Data File: \\alklsws002\instdata\GC28\Data\042414CAL.b\0424F031.D
Date : 25-APR-2014 16:32
Client ID:
Sample Info: 48 @ 500ppb PCB6-38J

Instrument: GC28.i

Operator: JMSmith

Column phase: DB-XLB

Column diameter: 0.32

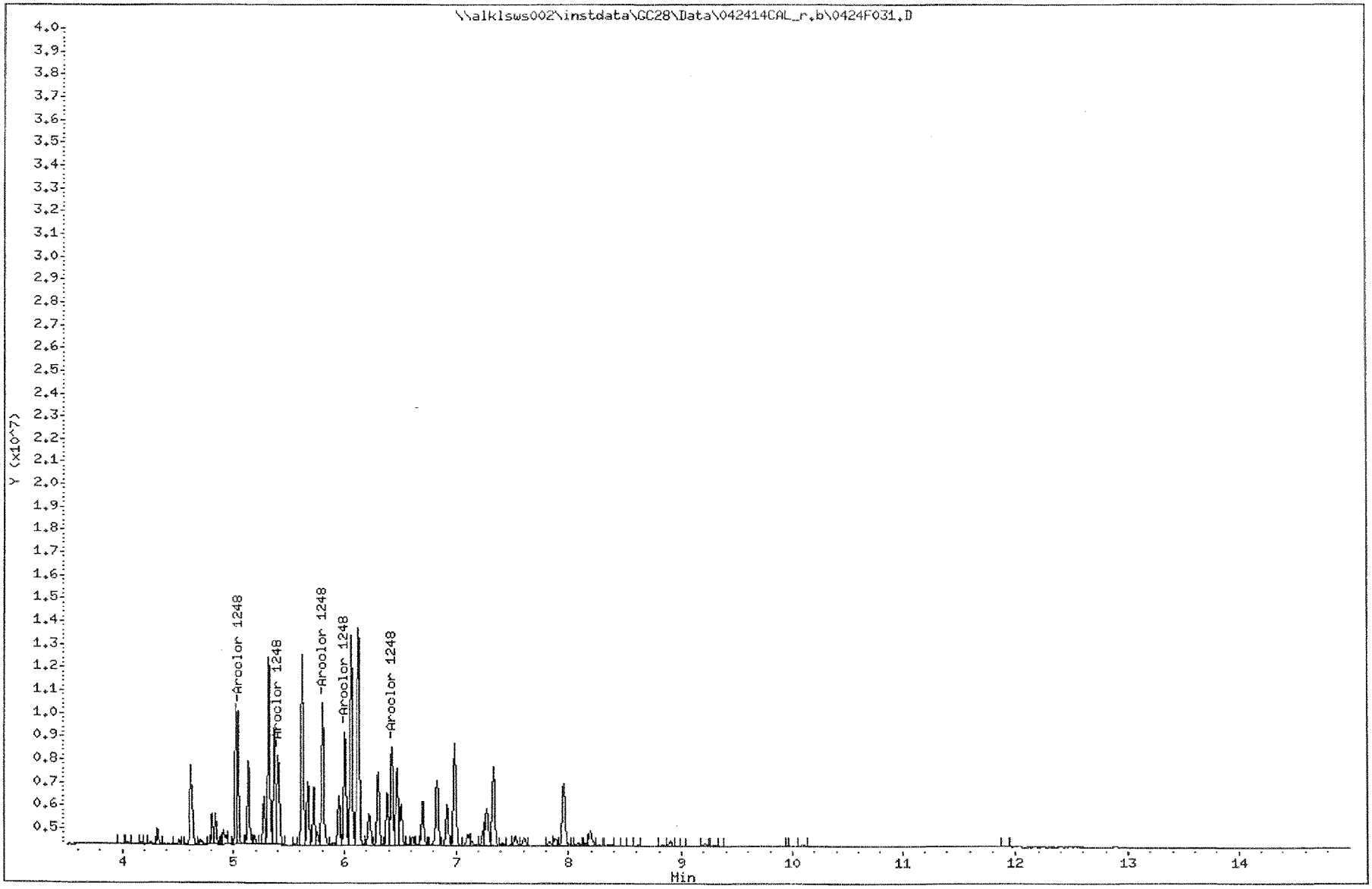


Data File: \\alklsws002\instdata\GC28\Data\042414CAL_r.b\0424F031.D
Date : 25-APR-2014 16:32
Client ID:
Sample Info: 48 @ 500ppb PCB6-38J

Column phase: DB-35MS

Instrument: GC28.i

Operator: JMSmith
Column diameter: 0.32



Data File: \\alklsws002\instdata\GC28\Data\042414CAL.b\0424F032.D
Report Date: 26-Apr-2014 01:13

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC28\Data\042414CAL.b\0424F032.D
Sample #2 : \\alklsws002\instdata\GC28\Data\042414CAL_r.b\0424F032.D
Inj Date : 25-APR-2014 16:56
Sample Info: 48 @ 1000ppb PCB6-38I
Misc Info :
Cal Date : 26-APR-2014 01:08
Operator : JMSmith
Inst ID : GC28.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC28\Data\042414CAL.b\042414_f.m
Method #2 : \\alklsws002\instdata\GC28\Data\042414CAL_r.b\042414_r.m
Sub List #1 : 48.SUB
Sub List #2 : 48.SUB
Col #1 Phase : DB-XLB
Col #2 Phase : DB-35MS

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1248	5.797	5.038	2664406	13555611	939	960	80.00- 120.00	100.00
	5.837	5.401	2740110	11943331	960	951	79.54- 119.30	102.84
	6.237	5.804	3194182	17580291	932	939	91.51- 137.26	119.88
	6.697	6.004	2798457	13681878	988	959	81.84- 122.77	105.03
	7.194	6.424	4431868	12383948	944	956	133.28- 199.93	166.34
		Average of Peak Amounts =			953	953		

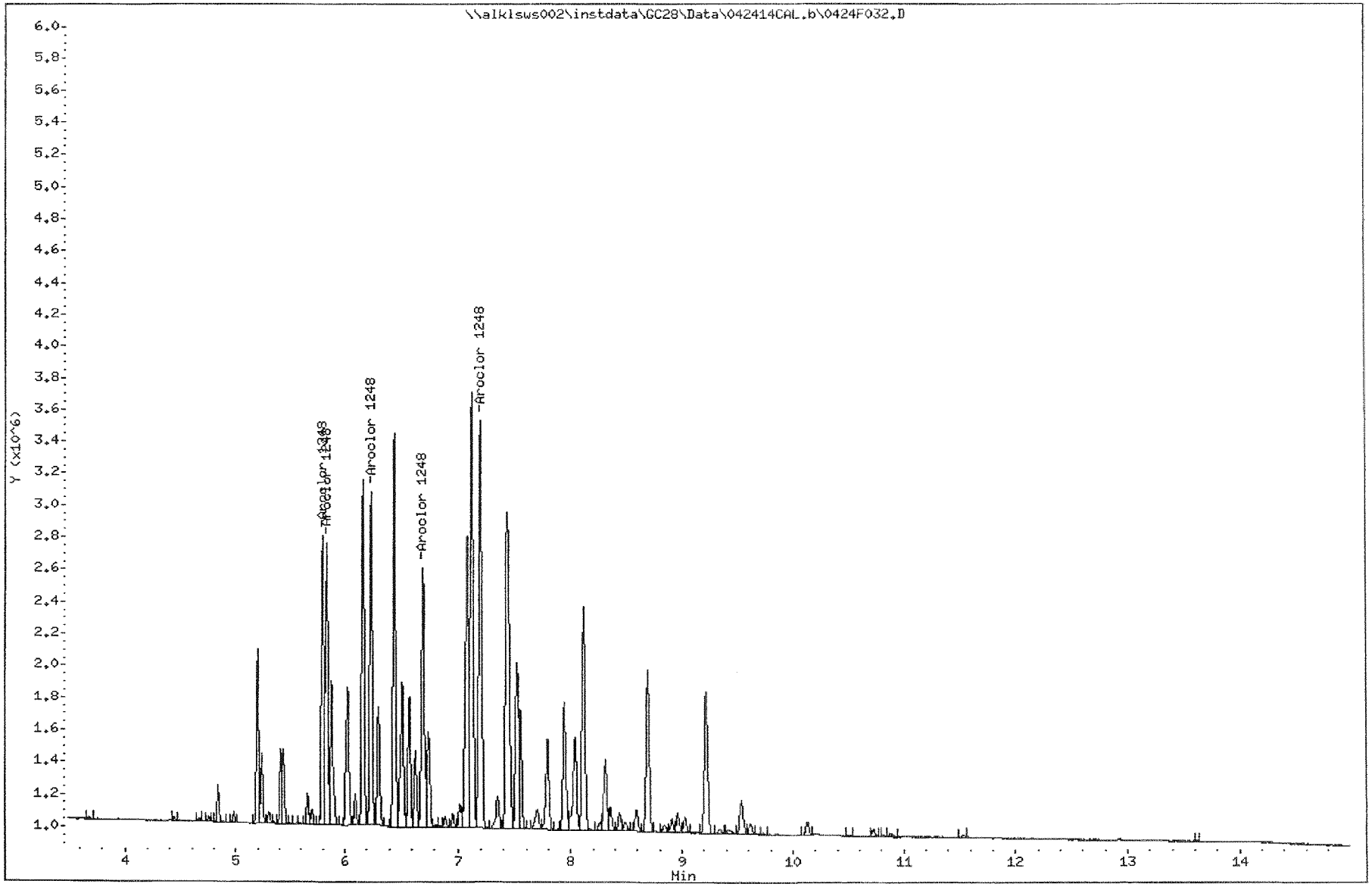
Data File: \\alklsws002\instdata\GC28\Data\042414CAL.b\0424F032.D
Date : 25-APR-2014 16:56
Client ID:
Sample Info: 48 @ 1000ppb PCB6-38I

Instrument: GC28.i

Operator: JMSmith

Column phase: DB-XLB

Column diameter: 0.32

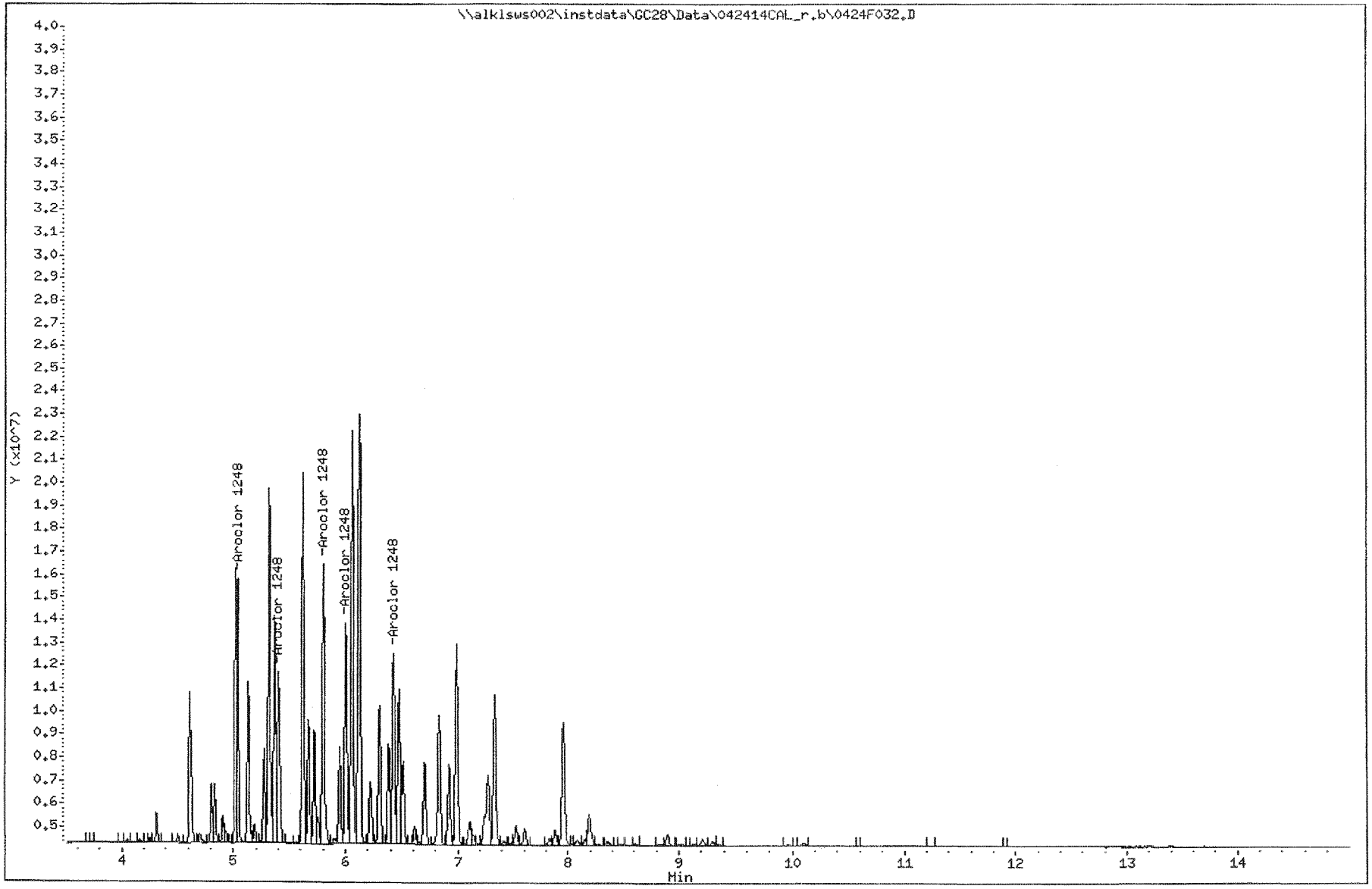


Data File: \\alklsws002\instdata\GC28\Data\042414CAL_r.b\0424F032.D
Date : 25-APR-2014 16:56
Client ID:
Sample Info: 48 @ 1000ppb PCB6-38I

Column phase: DB-35MS

Instrument: GC28.i

Operator: JMSmith
Column diameter: 0.32



Data File: \\alklsws002\instdata\GC28\Data\042414CAL.b\0424F033.D
Report Date: 26-Apr-2014 01:13

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC28\Data\042414CAL.b\0424F033.D
Sample #2 : \\alklsws002\instdata\GC28\Data\042414CAL_r.b\0424F033.D
Inj Date : 25-APR-2014 17:19
Sample Info: 48 @ 2000ppb PCB6-38H
Misc Info :
Cal Date : 26-APR-2014 01:08
Operator : JMSmith
Inst ID : GC28.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC28\Data\042414CAL.b\042414_f.m
Method #2 : \\alklsws002\instdata\GC28\Data\042414CAL_r.b\042414_r.m
Sub List #1 : 48.SUB
Sub List #2 : 48.SUB
Col #1 Phase : DB-XLB
Col #2 Phase : DB-35MS

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1248	5.801	5.037	4921071	26777135	1730	1900	80.00- 120.00	100.00
	5.837	5.401	5314556	22767796	1860	1810	79.54- 119.30	108.00
	6.241	5.804	5962979	34000174	1740	1820	91.51- 137.26	121.17
	6.697	6.004	5229300	26092626	1850	1830	81.84- 122.77	106.26
	7.194	6.427	8404477	24183154	1790	1870	133.28- 199.93	170.79
			Average of Peak Amounts =		1790	1850		

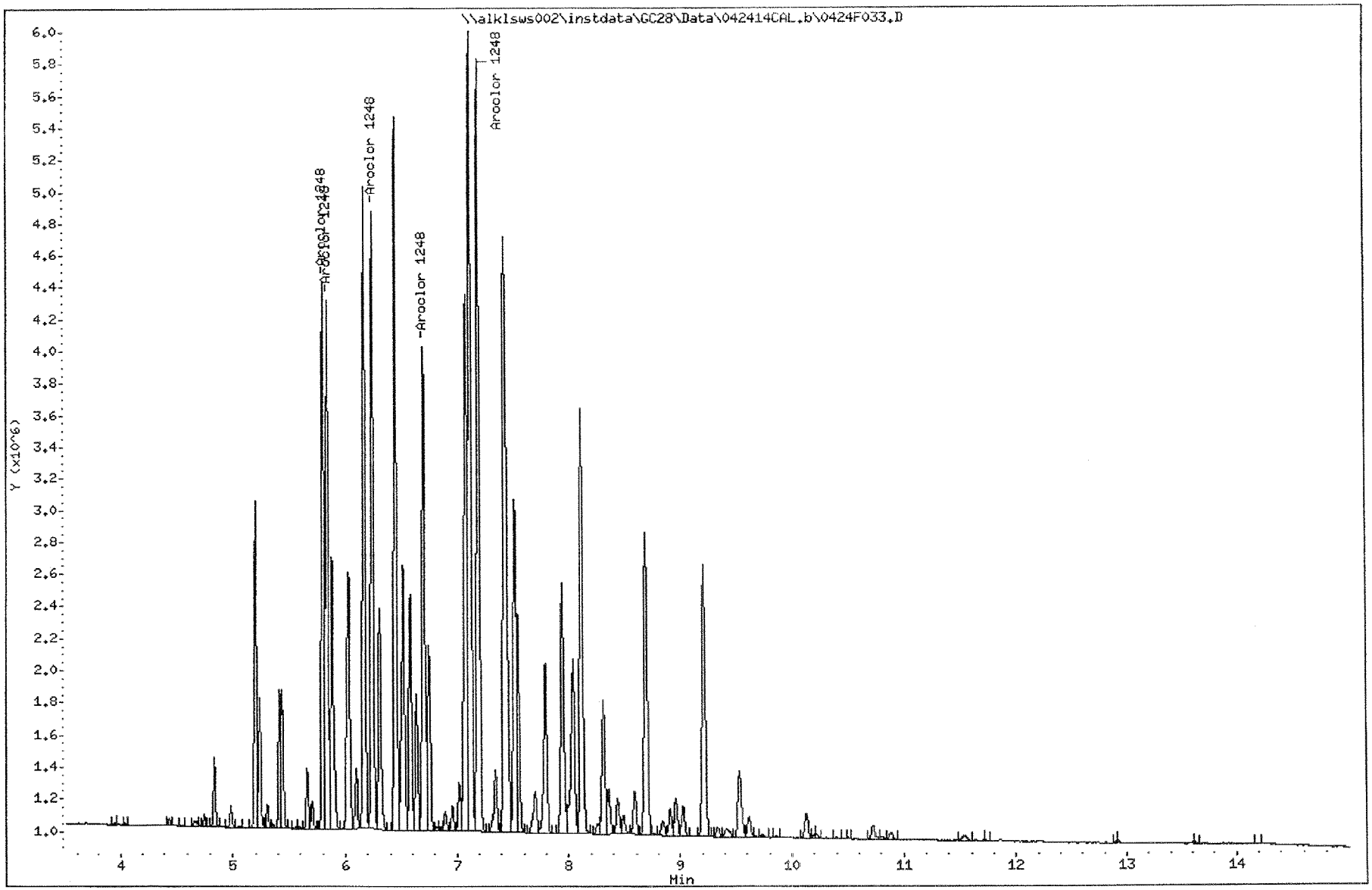
Data File: \\alklsws002\instdata\GC28\Data\042414CAL.b\0424F033.D
Date : 25-APR-2014 17:19
Client ID:
Sample Info: 48 @ 2000ppb PCB6-38H

Instrument: GC28.i

Operator: JMSmith

Column phase: DB-XLB

Column diameter: 0.32



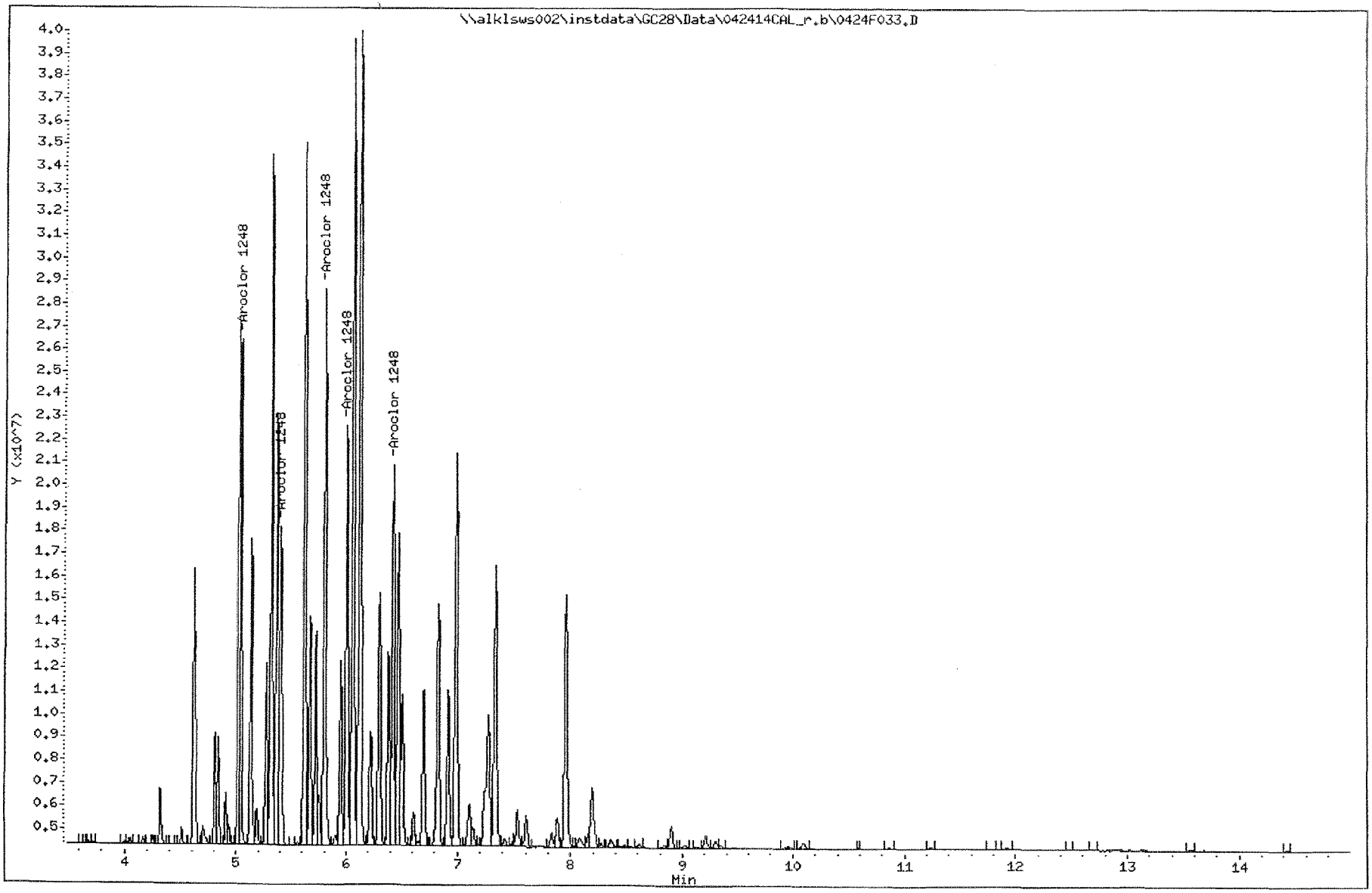
Data File: \\alklsws002\instdata\GC28\Data\042414CAL_r.b\0424F033.D
Date : 25-APR-2014 17:19
Client ID:
Sample Info: 48 @ 2000ppb PCB6-38H

Instrument: GC28.i

Operator: JHSmith

Column phase: DB-35MS

Column diameter: 0.32



Data File: \\alklsws002\instdata\GC28\Data\042414CAL.b\0424F034.D
Report Date: 26-Apr-2014 01:13

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC28\Data\042414CAL.b\0424F034.D
Sample #2 : \\alklsws002\instdata\GC28\Data\042414CAL_r.b\0424F034.D
Inj Date : 25-APR-2014 17:42
Sample Info: 48 @ 5000ppb PCB6-38G
Misc Info :
Cal Date : 26-APR-2014 01:08
Operator : JMSmith
Inst ID : GC28.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC28\Data\042414CAL.b\042414_f.m
Method #2 : \\alklsws002\instdata\GC28\Data\042414CAL_r.b\042414_r.m
Sub List #1 : 48.SUB
Sub List #2 : 48.SUB
Col #1 Phase : DB-XLB
Col #2 Phase : DB-35MS

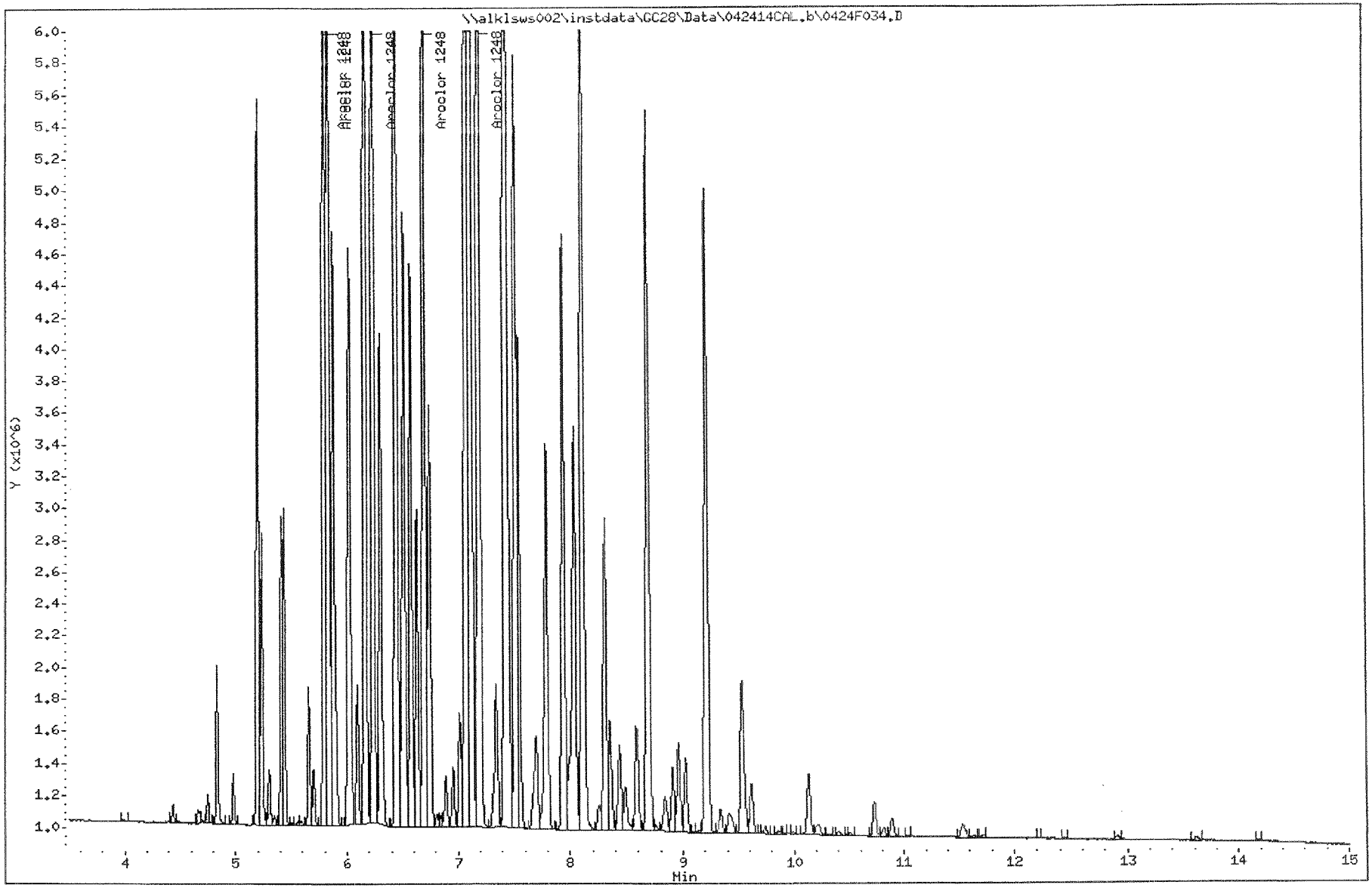
Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1248	5.800	5.036	11914704	60321221	4200	4270	80.00- 120.00	100.00
	5.840	5.403	11845646	52080852	4150	4150	79.54- 119.30	99.42
	6.240	5.803	13628474	82872547	3980	4430	91.51- 137.26	114.38
	6.700	6.003	12189250	63943338	4300	4480	81.84- 122.77	102.30
	7.196	6.426	19850443	59596277	4230	4600	133.28- 199.93	166.60
			Average of Peak Amounts =		4170	4390		

Data File: \\alklsws002\instdata\GC28\Data\042414CAL.b\0424F034.D
Date : 25-APR-2014 17:42
Client ID:
Sample Info: 48 @ 5000ppb PCB6-38G

Column phase: DB-XLB

Instrument: GC28.i

Operator: JMSmith
Column diameter: 0.32



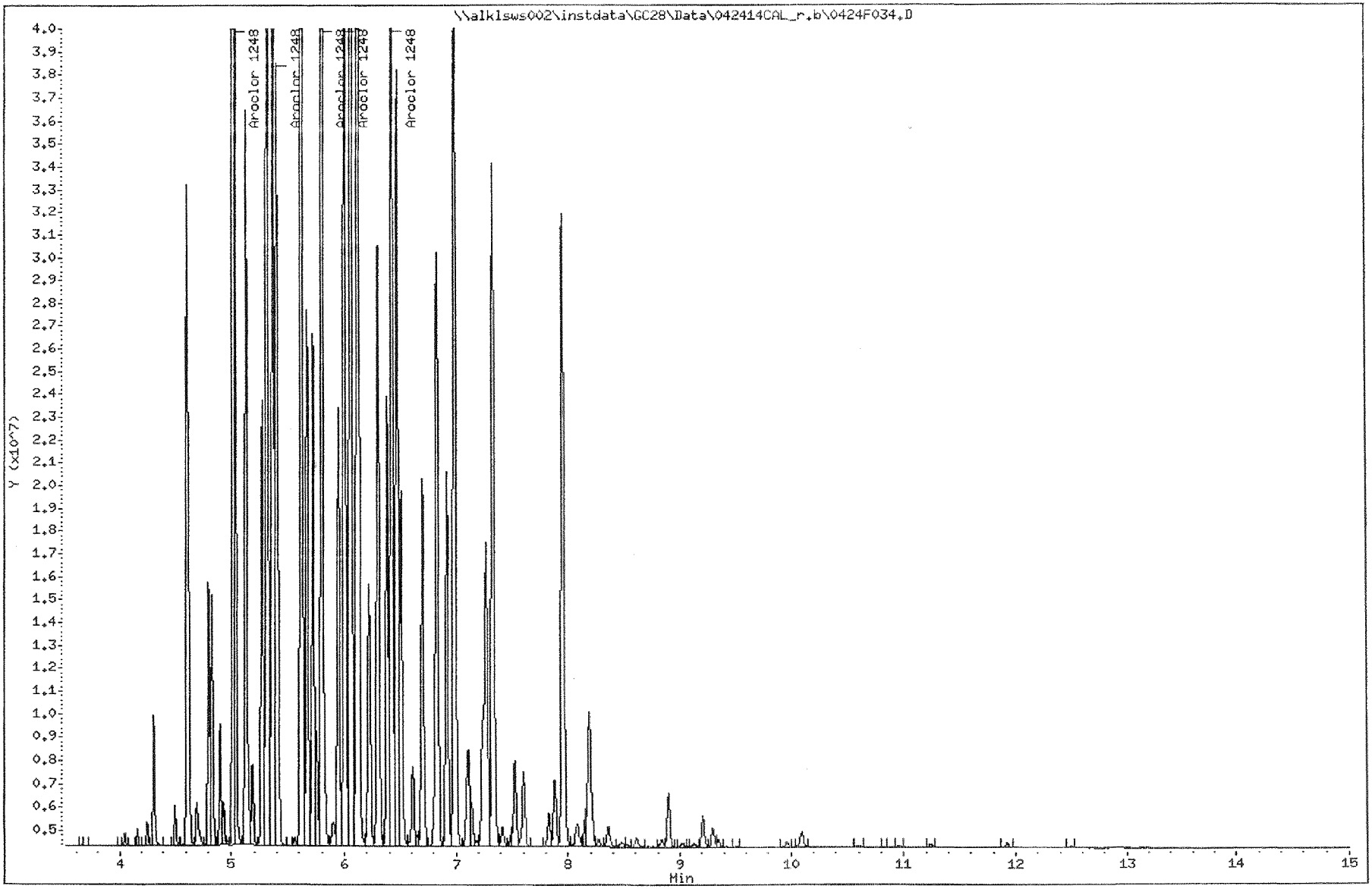
Data File: \\alklsws002\instdata\GC28\Data\042414CAL_r.b\0424F034.D
Date : 25-APR-2014 17:42
Client ID:
Sample Info: 48 @ 5000ppb PCB6-38G

Instrument: GC28.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32



Data File: \\alklsws002\instdata\GC28\Data\042414CAL.b\0424F035.D
Report Date: 26-Apr-2014 01:13

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC28\Data\042414CAL.b\0424F035.D
Sample #2 : \\alklsws002\instdata\GC28\Data\042414CAL_r.b\0424F035.D
Inj Date : 25-APR-2014 18:05
Sample Info: 1016 ICV @ 1000ppb PCB6-36I
Misc Info :
Cal Date : 26-APR-2014 01:08
Operator : JMSmith
Inst ID : GC28.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC28\Data\042414CAL.b\042414_f.m
Method #2 : \\alklsws002\instdata\GC28\Data\042414CAL_r.b\042414_r.m
Sub List #1 : AR1016.sub
Sub List #2 : AR1016.sub
Col #1 Phase : DB-XLB
Col #2 Phase : DB-35MS

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1016	4.839	4.839	2245104	8982463	933	924	80.00- 120.00	100.00
	5.839	5.036	5312602	30561906	918	956	207.77- 311.65	236.63
	5.882	5.132	3556657	19646099	935	918	132.64- 198.96	158.42
	6.239	5.319	2696307	14512954	933	871	97.29- 145.93	120.10
	6.449	5.619	2744160	16129596	962	943	98.71- 148.06	122.23
			Average of Peak Amounts =		936	922		

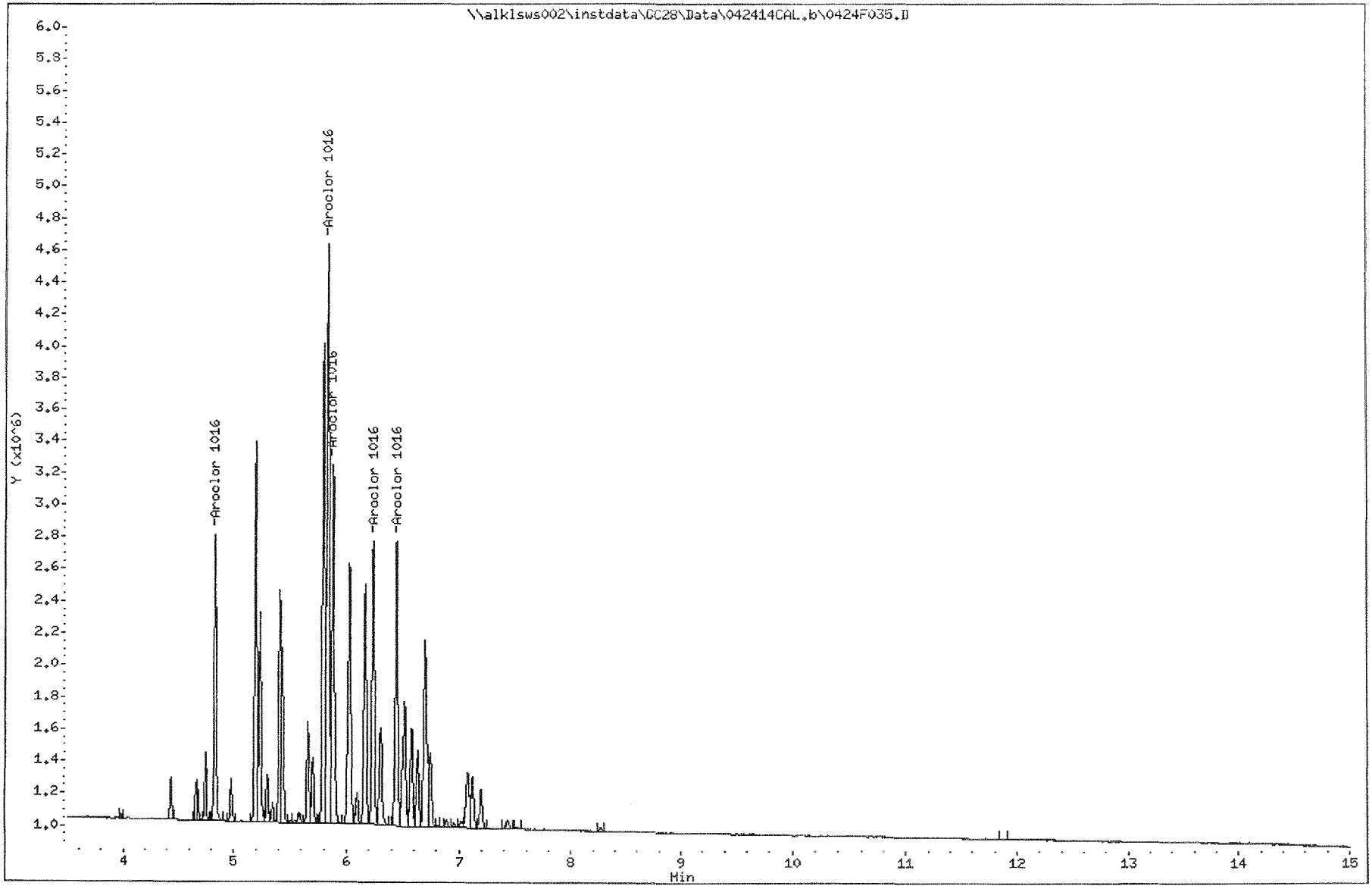
Data File: \\alklsws002\instdata\GC28\Data\042414CAL.b\0424F035.D
Date : 25-APR-2014 18:05
Client ID:
Sample Info: 1016 ICV @ 1000ppb PCB6-36I

Instrument: GC28.i

Operator: JMSmith

Column phase: DB-XLB

Column diameter: 0.32



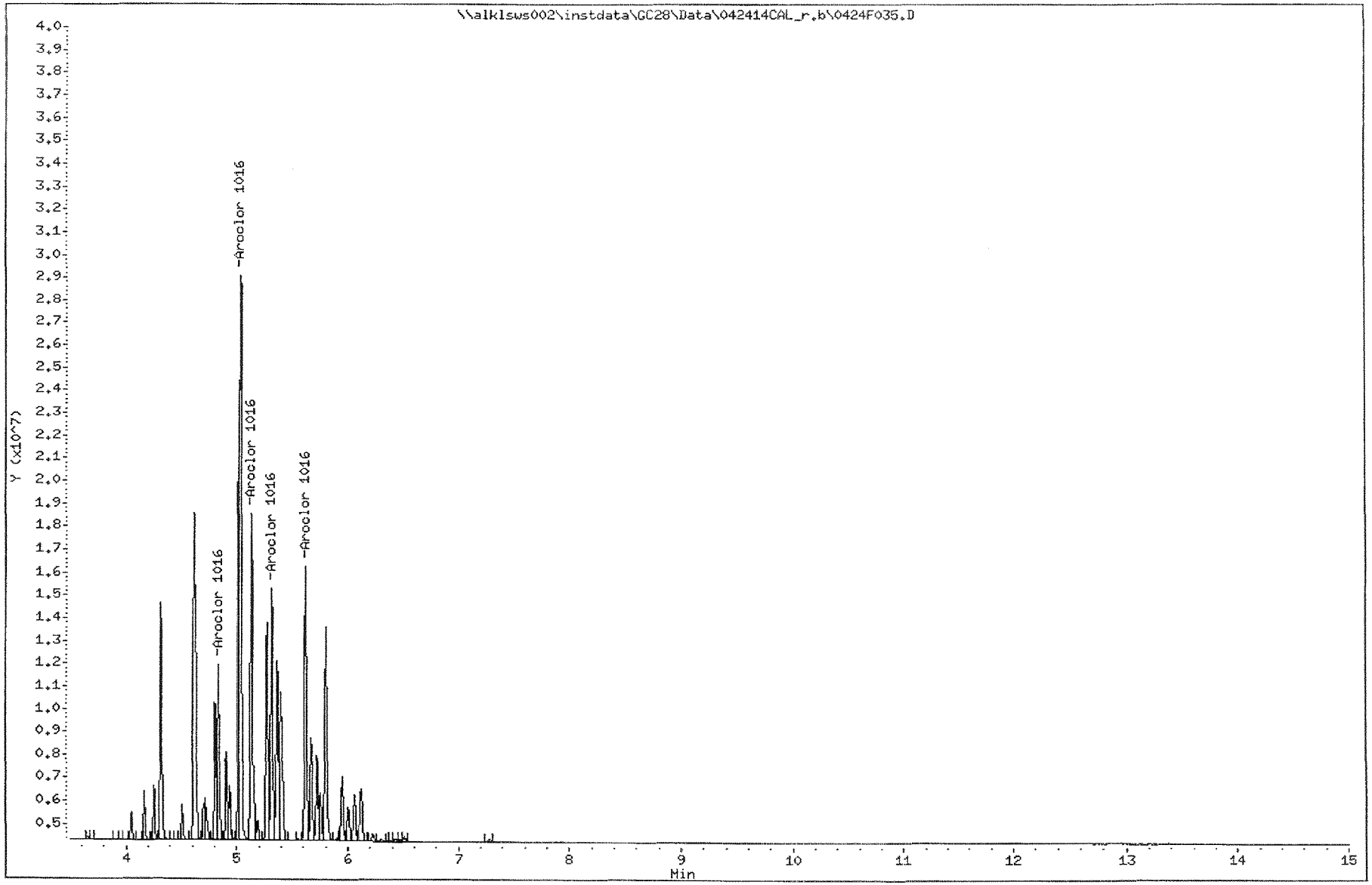
Data File: \\alklsws002\instdata\GC28\Data\042414CAL_r.b\0424F035.D
Date : 25-APR-2014 18:05
Client ID:
Sample Info: 1016 ICV @ 1000ppb PCB6-36I

Instrument: GC28.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32



Data File: \\alklsws002\instdata\GC28\Data\042414CAL.b\0424F036.D
Report Date: 26-Apr-2014 01:13

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC28\Data\042414CAL.b\0424F036.D
Sample #2 : \\alklsws002\instdata\GC28\Data\042414CAL_r.b\0424F036.D
Inj Date : 25-APR-2014 18:28
Sample Info: 1221 ICV @ 1000ppb PCB6-36J
Misc Info :
Cal Date : 26-APR-2014 01:08
Operator : JMSmith
Inst ID : GC28.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC28\Data\042414CAL.b\042414_f.m
Method #2 : \\alklsws002\instdata\GC28\Data\042414CAL_r.b\042414_r.m
Sub List #1 : AR1221.SUB
Sub List #2 : AR1221.SUB
Col #1 Phase : DB-XLB
Col #2 Phase : DB-35MS

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1221	4.683	4.166	879479	6572099	1050	1020	80.00- 120.00	100.00
	4.753	4.253	904734	4455126	1050	1060	78.03- 117.04	102.87
	4.836	4.316	3130243	16096229	1040	995	277.87- 416.81	355.92
			Average of Peak Amounts =		1050	1030		

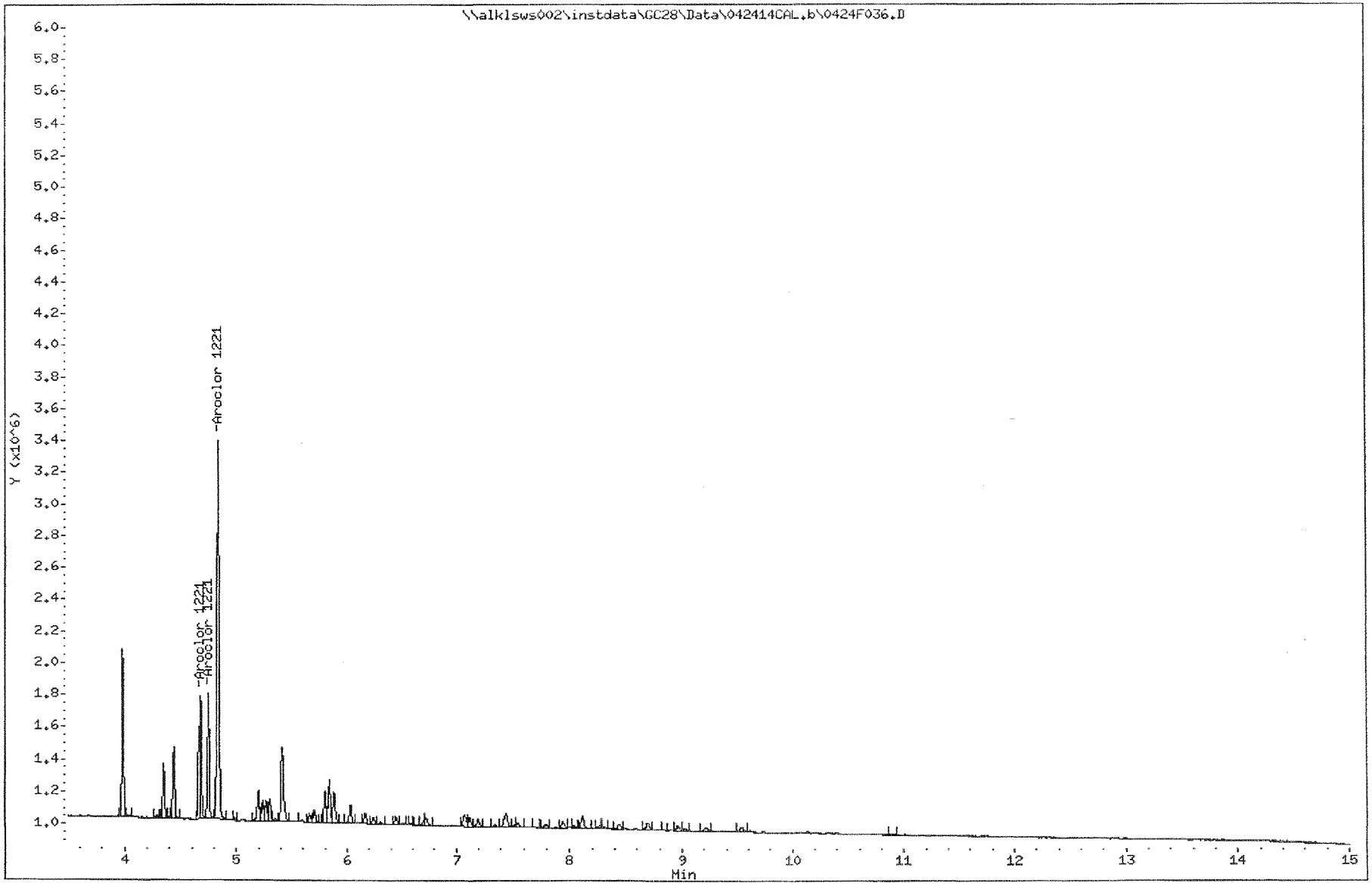
Data File: \\alklsws002\instdata\GC28\Data\042414CAL.b\0424F036.D
Date : 25-APR-2014 18:28
Client ID:
Sample Info: 1221 ICV @ 1000ppb PCB6-36J

Instrument: GC28.i

Operator: JMSmith

Column phase: DB-XLB

Column diameter: 0.32



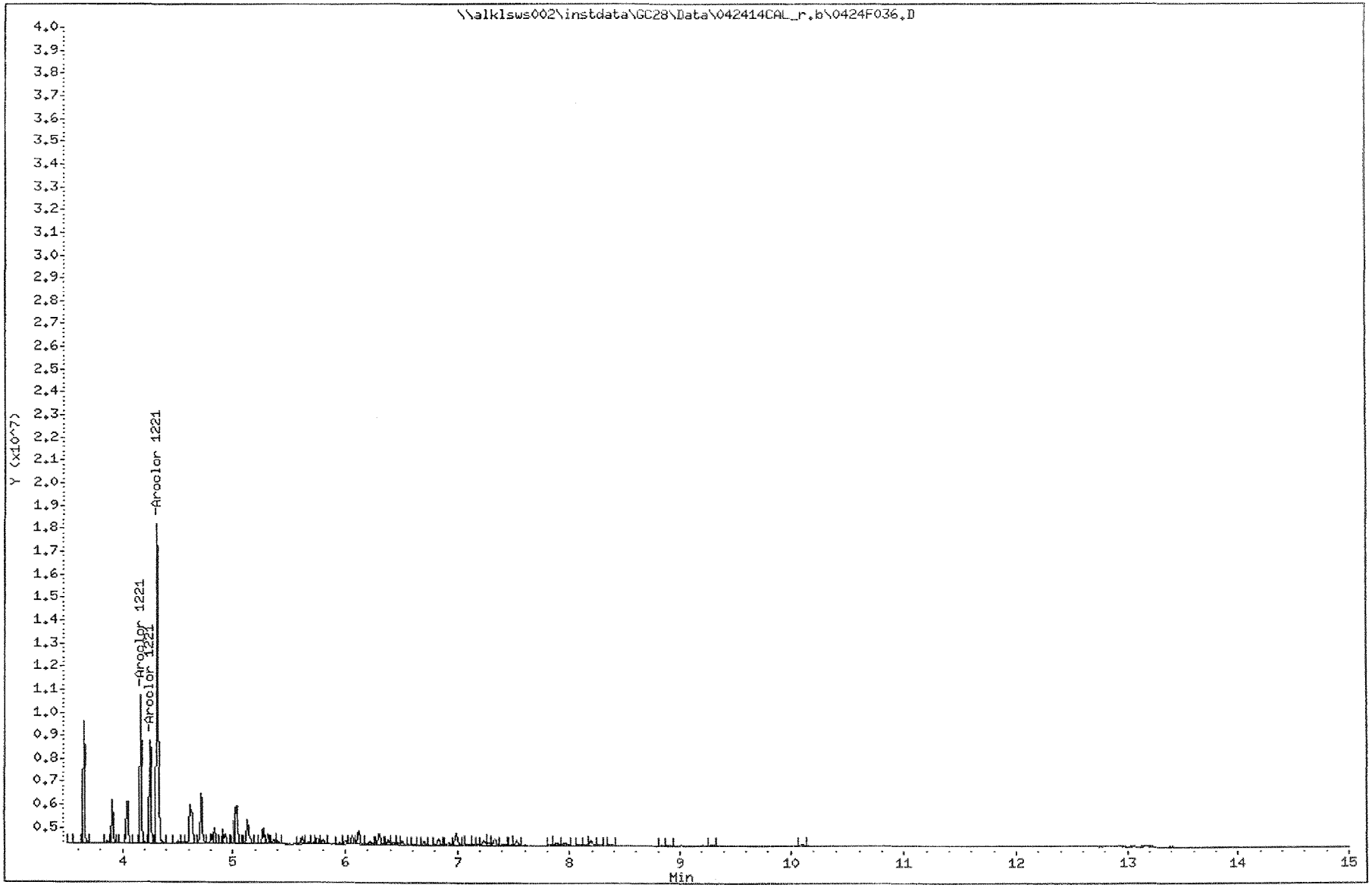
Data File: \\alklsws002\instdata\GC28\Data\042414CAL_r.b\0424F036.D
Date : 25-APR-2014 18:28
Client ID:
Sample Info: 1221 ICV @ 1000ppb PCB6-36J

Instrument: GC28.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32



Data File: \\alklsws002\instdata\GC28\Data\042414CAL.b\0424F037.D
Report Date: 26-Apr-2014 01:13

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC28\Data\042414CAL.b\0424F037.D
Sample #2 : \\alklsws002\instdata\GC28\Data\042414CAL_r.b\0424F037.D
Inj Date : 25-APR-2014 18:51
Sample Info: 1232 ICV @ 1000ppb PCB6-36K
Misc Info :
Cal Date : 26-APR-2014 01:08
Operator : JMSmith
Inst ID : GC28.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC28\Data\042414CAL.b\042414_f.m
Method #2 : \\alklsws002\instdata\GC28\Data\042414CAL_r.b\042414_r.m
Sub List #1 : AR1232.SUB
Sub List #2 : AR1232.SUB
Col #1 Phase : DB-XLB
Col #2 Phase : DB-35MS

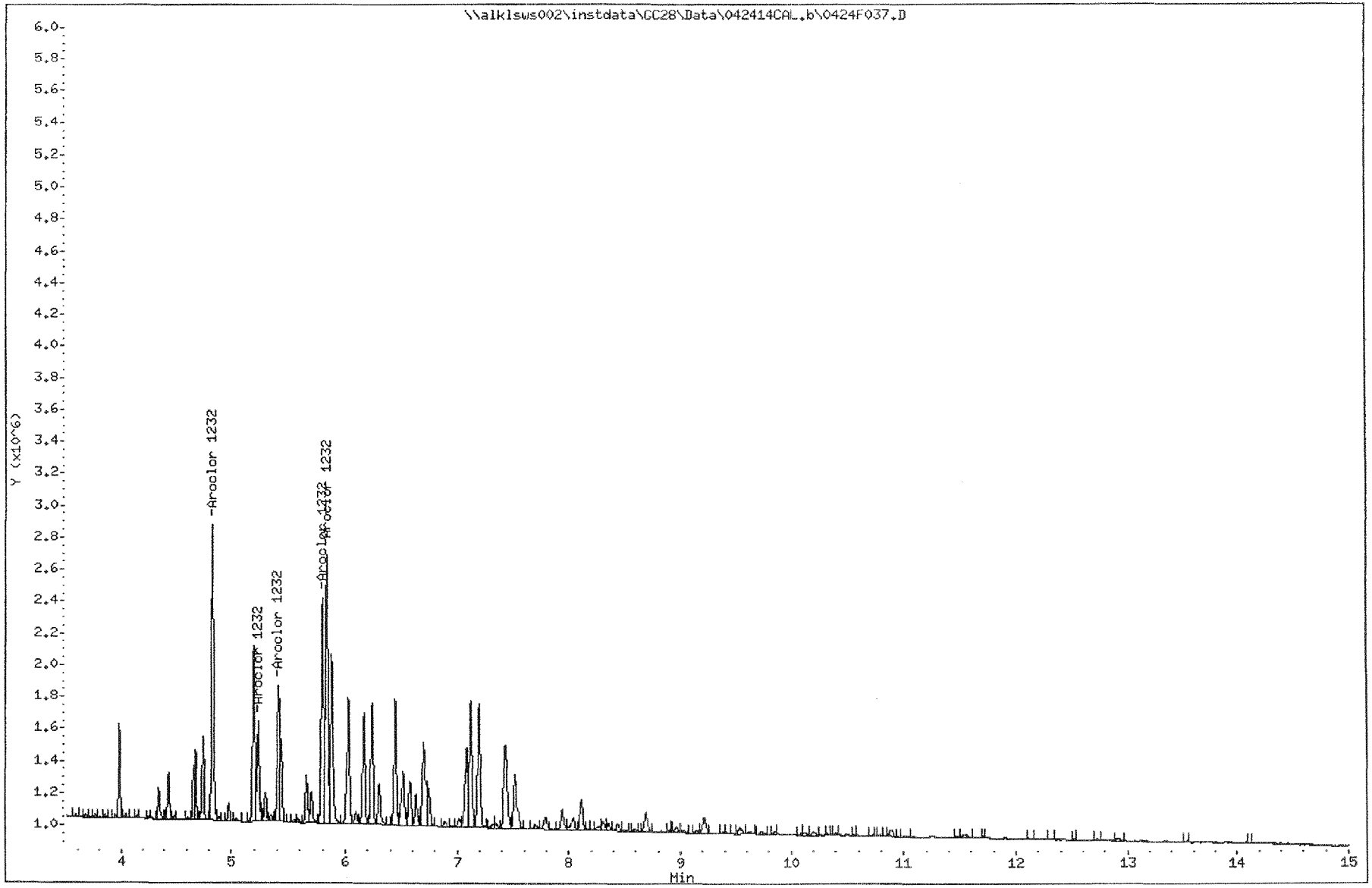
Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1232	4.836	4.317	2367052	12196310	837	834	80.00- 120.00	100.00
	5.240	4.837	807637	4195095	873	897	26.42- 39.63	34.12
	5.413	5.020	1170403	8999428	877	942	37.29- 55.94	49.45
	5.800	5.037	2024828	13303785	927	896	65.70- 98.54	85.54
	5.840	5.133	2435562	9076298	918	907	79.51- 119.26	102.89
			Average of Peak Amounts =		886	895		

Data File: \\alklsws002\instdata\GC28\Data\042414CAL.b\0424F037.D
Date : 25-APR-2014 18:51
Client ID:
Sample Info: 1232 ICV @ 1000ppb PCB6-36K

Column phase: DB-XLB

Instrument: GC28.i

Operator: JMSmith
Column diameter: 0.32

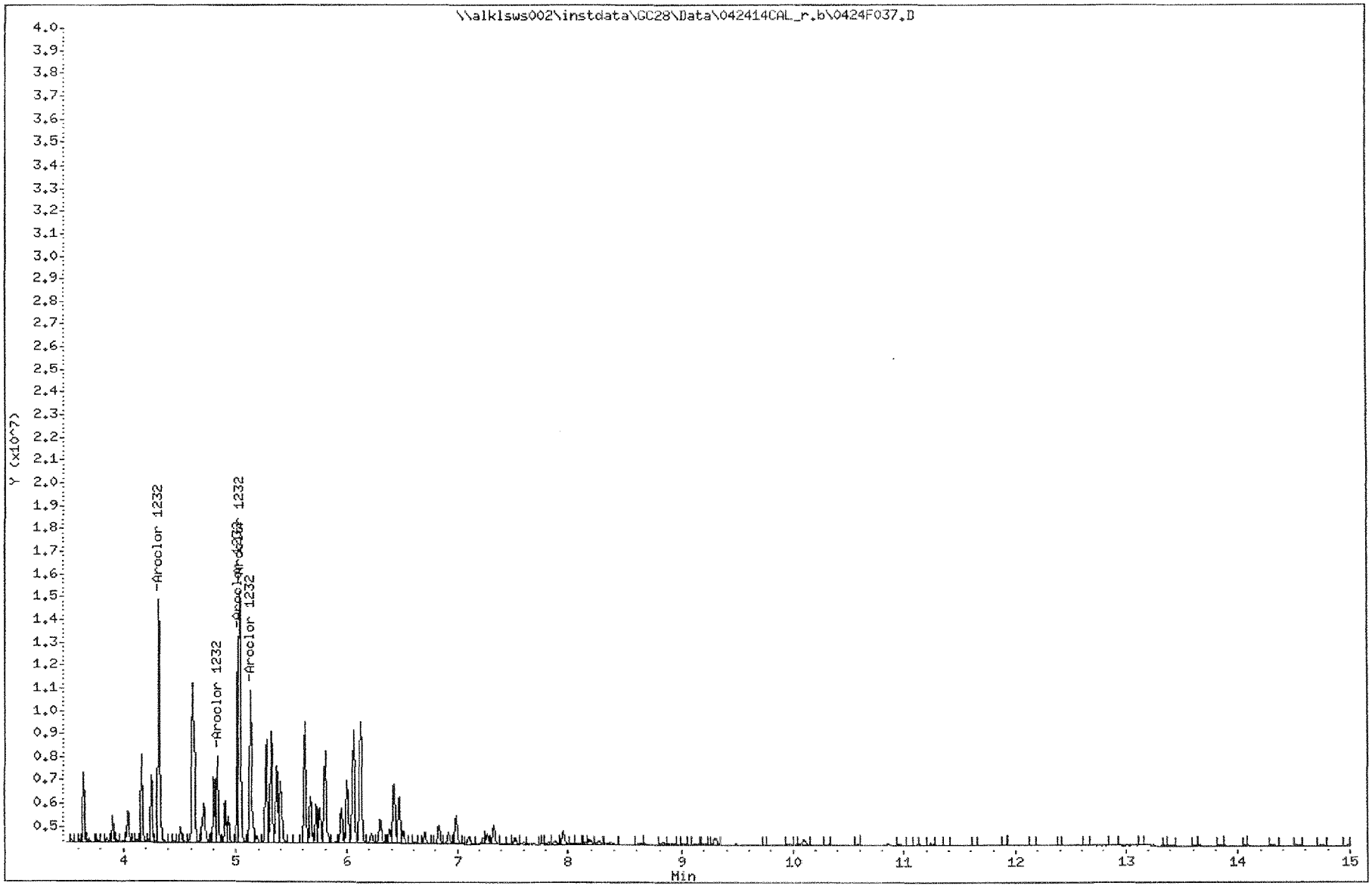


Data File: \\alklsws002\instdata\GC28\Data\042414CAL_r.b\0424F037.D
Date : 25-APR-2014 18:51
Client ID:
Sample Info: 1232 ICV @ 1000ppb PCB6-36K

Column phase: DB-35MS

Instrument: GC28.i

Operator: JMSmith
Column diameter: 0.32



Data File: \\alklsws002\instdata\GC28\Data\042414CAL.b\0424F038.D
Report Date: 26-Apr-2014 01:13

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC28\Data\042414CAL.b\0424F038.D
Sample #2 : \\alklsws002\instdata\GC28\Data\042414CAL_r.b\0424F038.D
Inj Date : 25-APR-2014 19:14
Sample Info: 1242 ICV @ 1000ppb PCB6-36L
Misc Info :
Cal Date : 26-APR-2014 01:08
Operator : JMSmith
Inst ID : GC28.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC28\Data\042414CAL.b\042414_f.m
Method #2 : \\alklsws002\instdata\GC28\Data\042414CAL_r.b\042414_r.m
Sub List #1 : AR1242.SUB
Sub List #2 : AR1242.SUB
Col #1 Phase : DB-XLB
Col #2 Phase : DB-35MS

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1242	4.838	4.315	1755076	8874073	916	890	80.00- 120.00	100.00
	5.238	4.838	1363100	7197272	882	916	62.57- 93.85	77.67
	5.838	5.038	4178641	25146899	911	998	200.27- 300.41	238.09
	6.031	5.135	2295724	15498015	921	900	108.95- 163.43	130.80
	6.698	5.275	2105277	9238451	936	913	100.61- 150.91	119.95
		Average of Peak Amounts =			913	923		

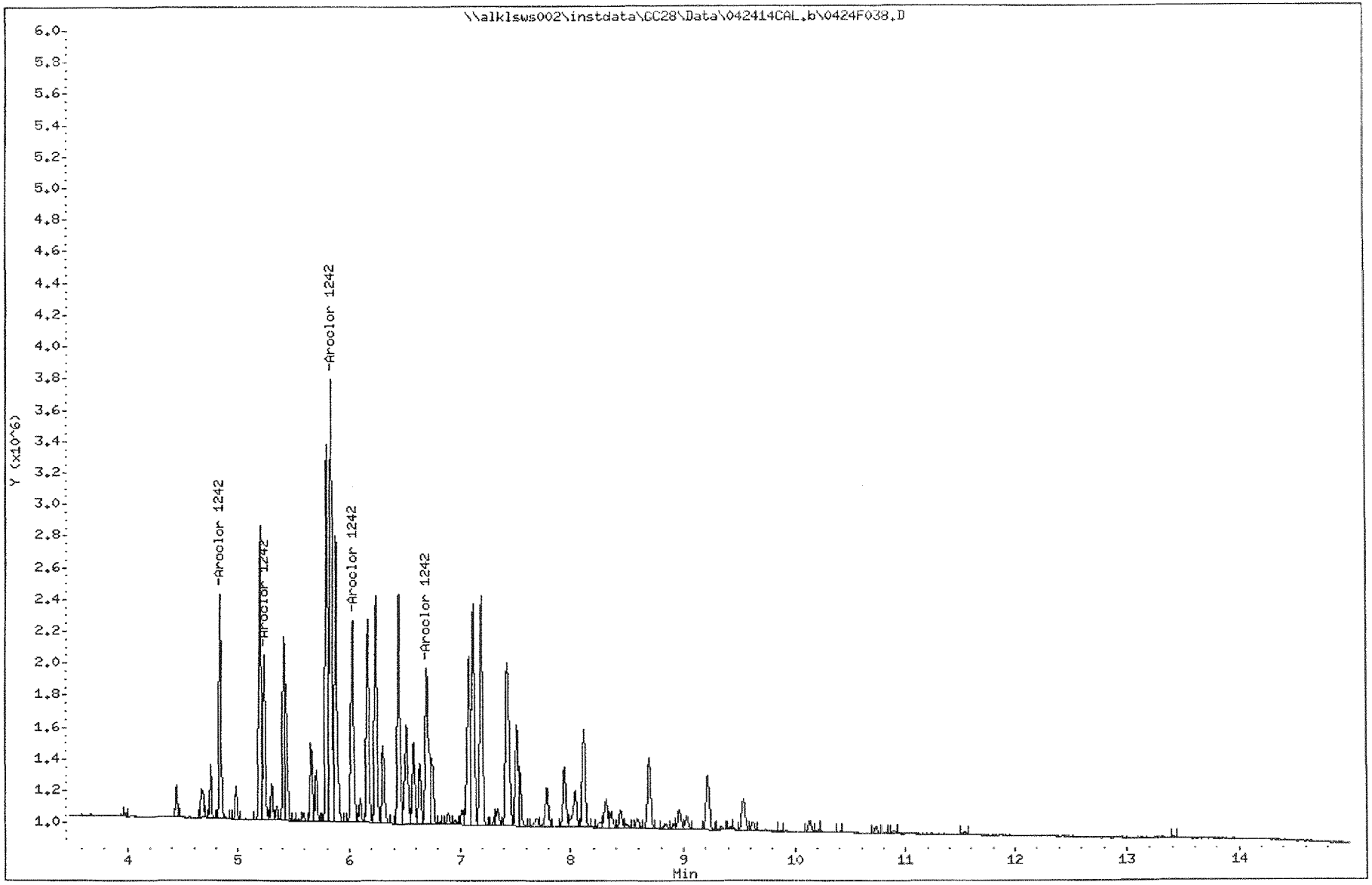
Data File: \\alklsws002\instdata\GC28\Data\042414CAL.b\0424F038.D
Date : 25-APR-2014 19:14
Client ID:
Sample Info: 1242 ICV @ 1000ppb PCB6-36L

Instrument: GC28.i

Operator: JMSmith

Column phase: DB-XLB

Column diameter: 0.32



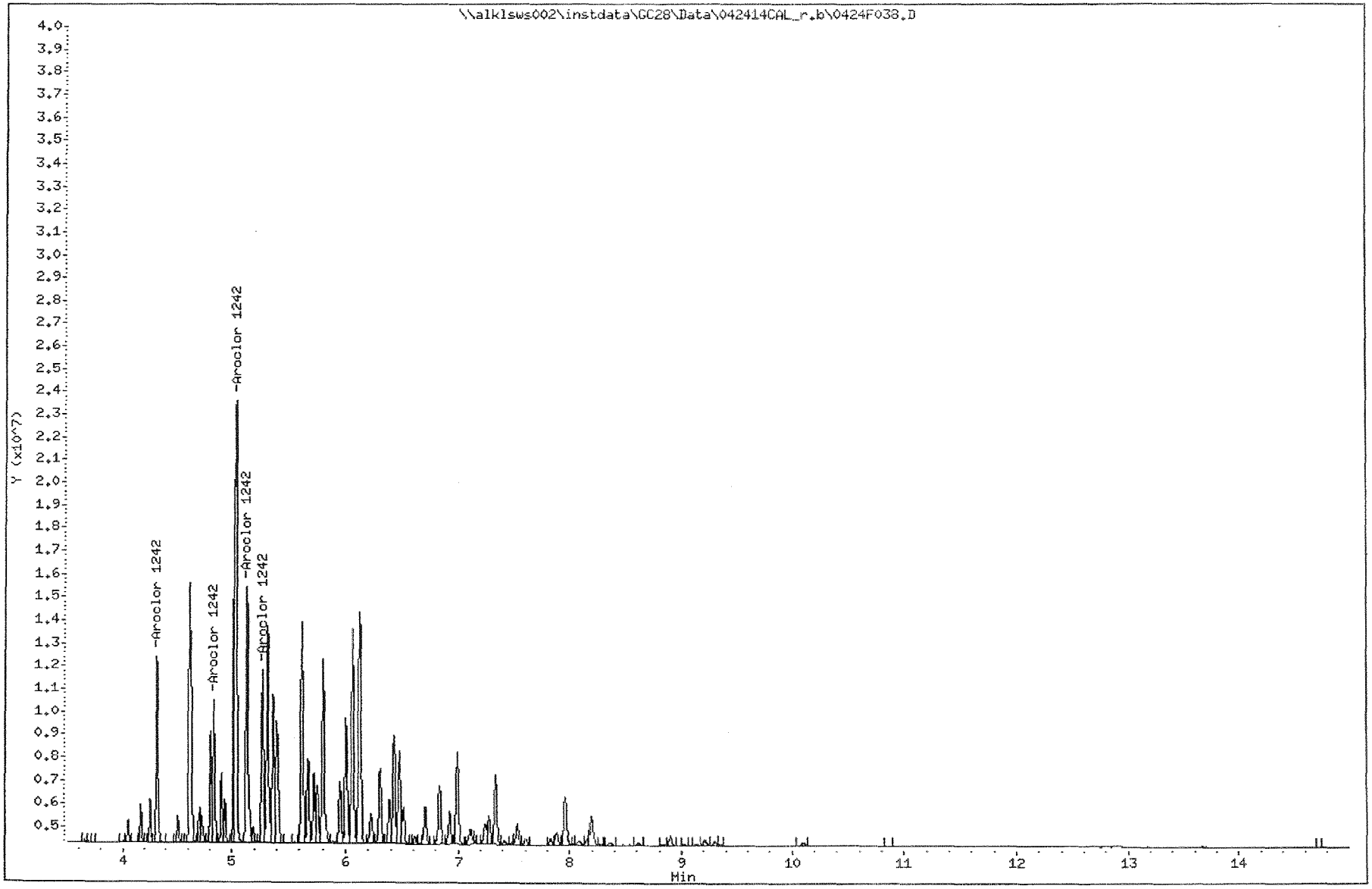
Data File: \\alklsws002\instdata\GC28\Data\042414CAL_r.b\0424F038.D
Date : 25-APR-2014 19:14
Client ID:
Sample Info: 1242 ICV @ 1000ppb PCB6-36L

Instrument: GC28.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32



Data File: \\alklsws002\instdata\GC28\Data\042414CAL.b\0424F039.D
Report Date: 26-Apr-2014 01:14

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC28\Data\042414CAL.b\0424F039.D
Sample #2 : \\alklsws002\instdata\GC28\Data\042414CAL_r.b\0424F039.D
Inj Date : 25-APR-2014 19:37
Sample Info: 1248 ICV @ 1000ppb PCB6-36M
Misc Info :
Cal Date : 26-APR-2014 01:08
Operator : JMSmith
Inst ID : GC28.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC28\Data\042414CAL.b\042414_f.m
Method #2 : \\alklsws002\instdata\GC28\Data\042414CAL_r.b\042414_r.m
Sub List #1 : 48.SUB
Sub List #2 : 48.SUB
Col #1 Phase : DB-XLB
Col #2 Phase : DB-35MS

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1248	5.801	5.038	2651283	12159551	934	861	80.00- 120.00	100.00
	5.841	5.401	2785929	11069554	976	881	79.54- 119.30	105.08
	6.241	5.804	3078121	16573967	898	885	91.51- 137.26	116.10
	6.697	6.004	2652226	12602668	936	883	81.84- 122.77	100.04
	7.197	6.428	4094308	11541882	872	891	133.28- 199.93	154.43
			Average of Peak Amounts =		923	880		

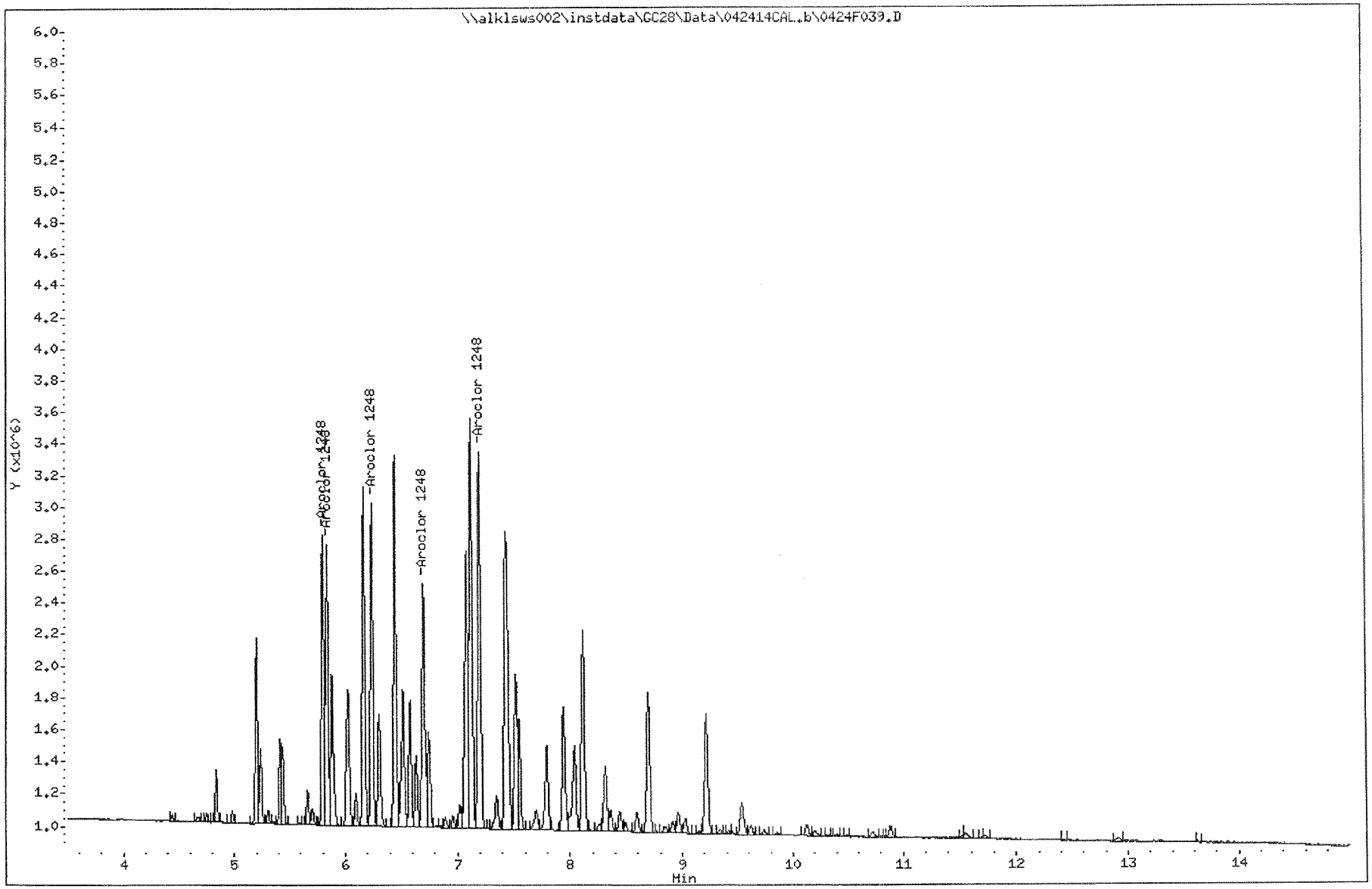
Data File: \\alklsws002\instdata\GC28\Data\042414CAL.b\0424F039.D
Date : 25-APR-2014 19:37
Client ID:
Sample Info: 1248 ICV @ 1000ppb PCB6-36M

Instrument: GC28.i

Operator: JMSmith

Column phase: DB-XLB

Column diameter: 0.32

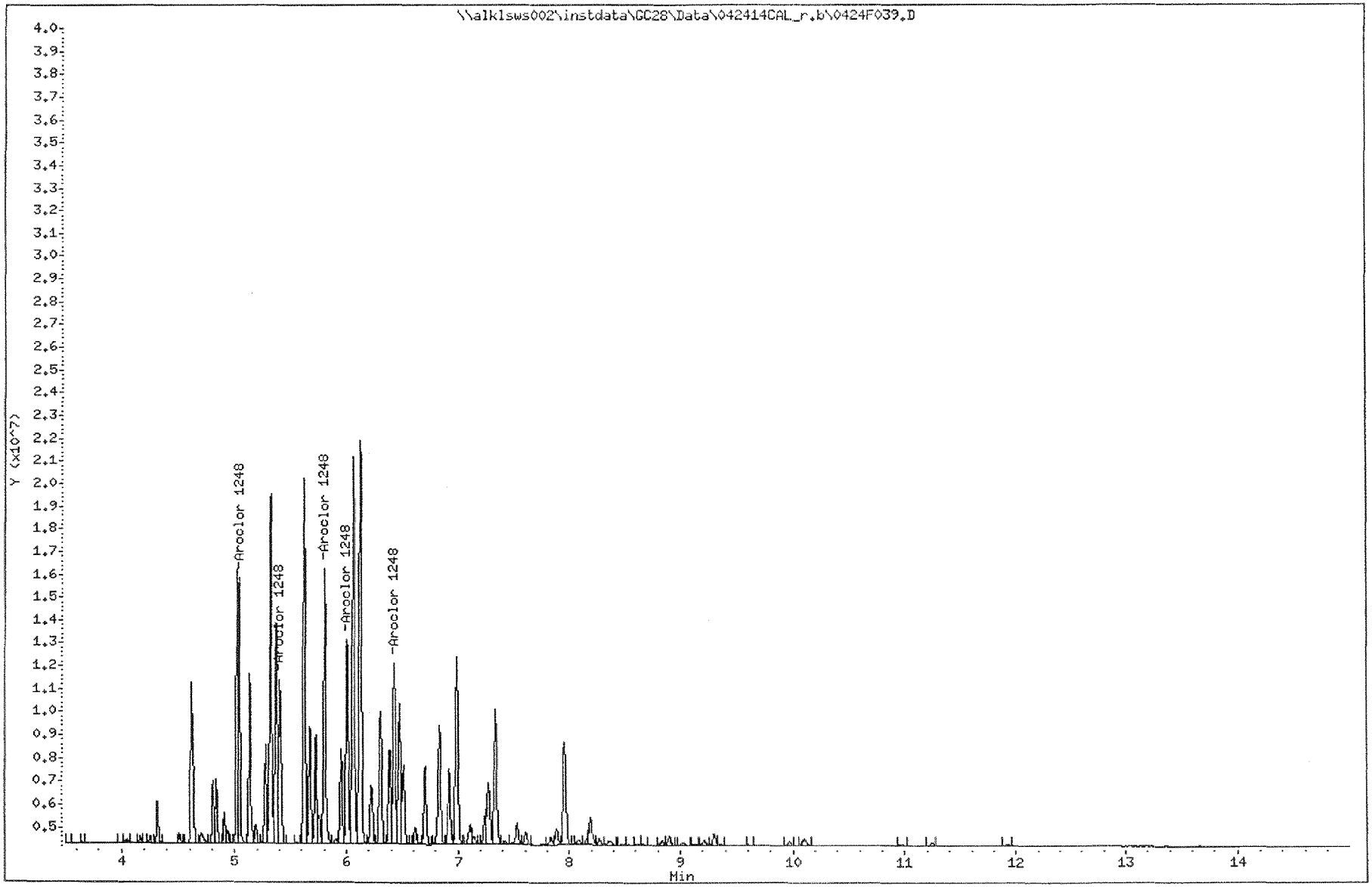


Data File: \\alklsws002\instdata\GC28\Data\042414CAL_r.b\0424F039.D
Date : 25-APR-2014 19:37
Client ID:
Sample Info: 1248 ICV @ 1000ppb PCB6-36M

Column phase: DB-35MS

Instrument: GC28.i

Operator: JMSmith
Column diameter: 0.32



Data File: \\alklsws002\instdata\GC28\Data\042414CAL.b\0424F040.D
Report Date: 26-Apr-2014 01:14

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC28\Data\042414CAL.b\0424F040.D
Sample #2 : \\alklsws002\instdata\GC28\Data\042414CAL_r.b\0424F040.D
Inj Date : 25-APR-2014 20:01
Sample Info: 1254 ICV @ 1000ppb PCB6-36N
Misc Info :
Cal Date : 26-APR-2014 01:08
Operator : JMSmith
Inst ID : GC28.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC28\Data\042414CAL.b\042414_f.m
Method #2 : \\alklsws002\instdata\GC28\Data\042414CAL_r.b\042414_r.m
Sub List #1 : AR1254.SUB
Sub List #2 : AR1254.SUB
Col #1 Phase : DB-XLB
Col #2 Phase : DB-35MS

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1254	7.073	6.387	4652210	12745887	919	921	80.00- 120.00	100.00
	7.123	6.833	2326918	23396059	910	958	42.90- 64.35	50.02
	7.446	6.990	7355887	47169483	923	913	126.26- 189.40	158.12
	7.546	7.333	2573396	31641638	935	920	43.50- 65.25	55.32
	9.213	7.957	4267118	19718600	975	960	76.90- 115.35	91.72
			Average of Peak Amounts =		932	934		

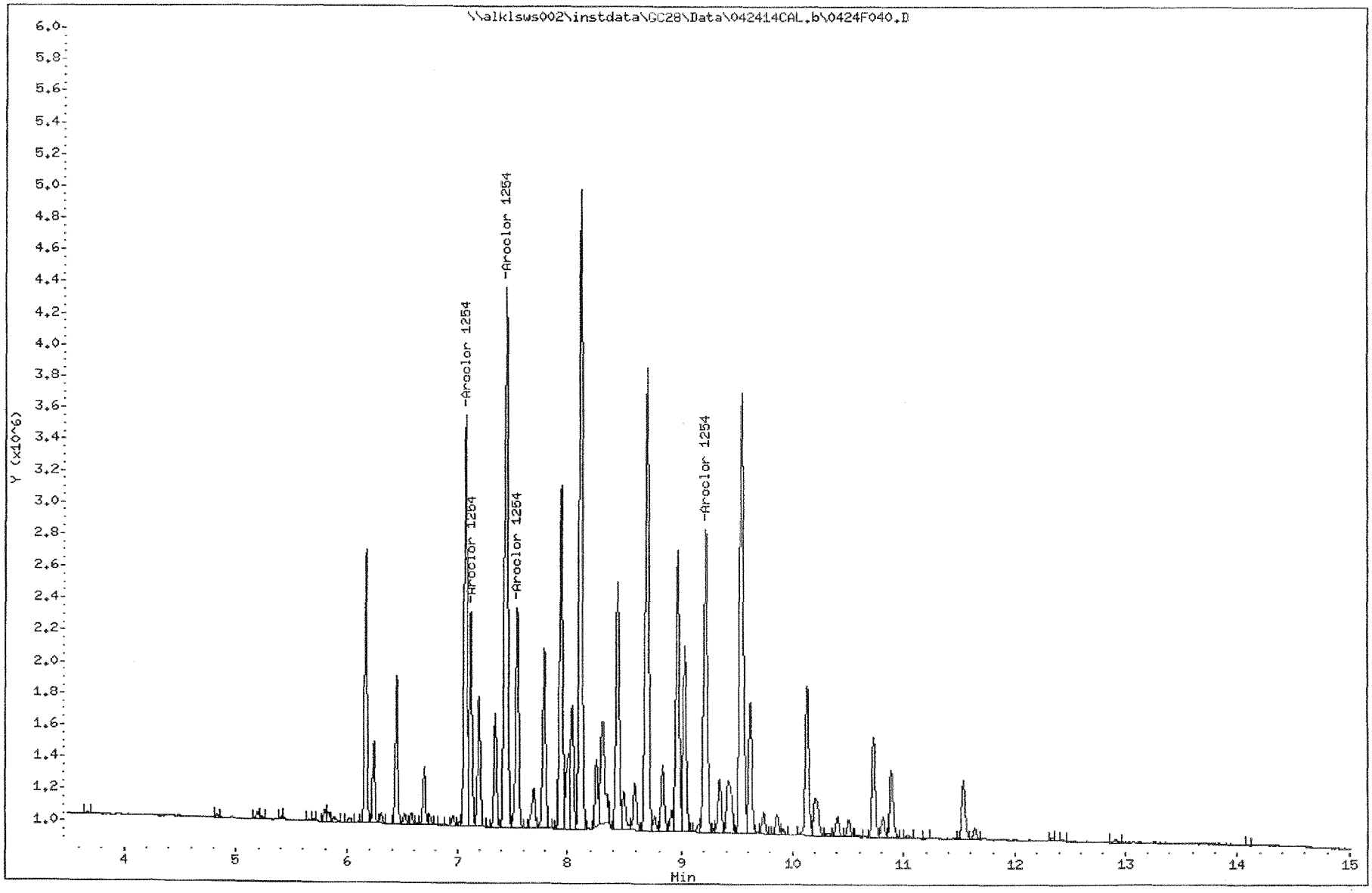
Data File: \\alklsws002\instdata\GC28\Data\042414CAL.b\0424F040.D
Date : 25-APR-2014 20:01
Client ID:
Sample Info: 1254 ICV @ 1000ppb PCB6-36N

Instrument: GC28.i

Operator: JHSmith

Column phase: DB-XLB

Column diameter: 0.32



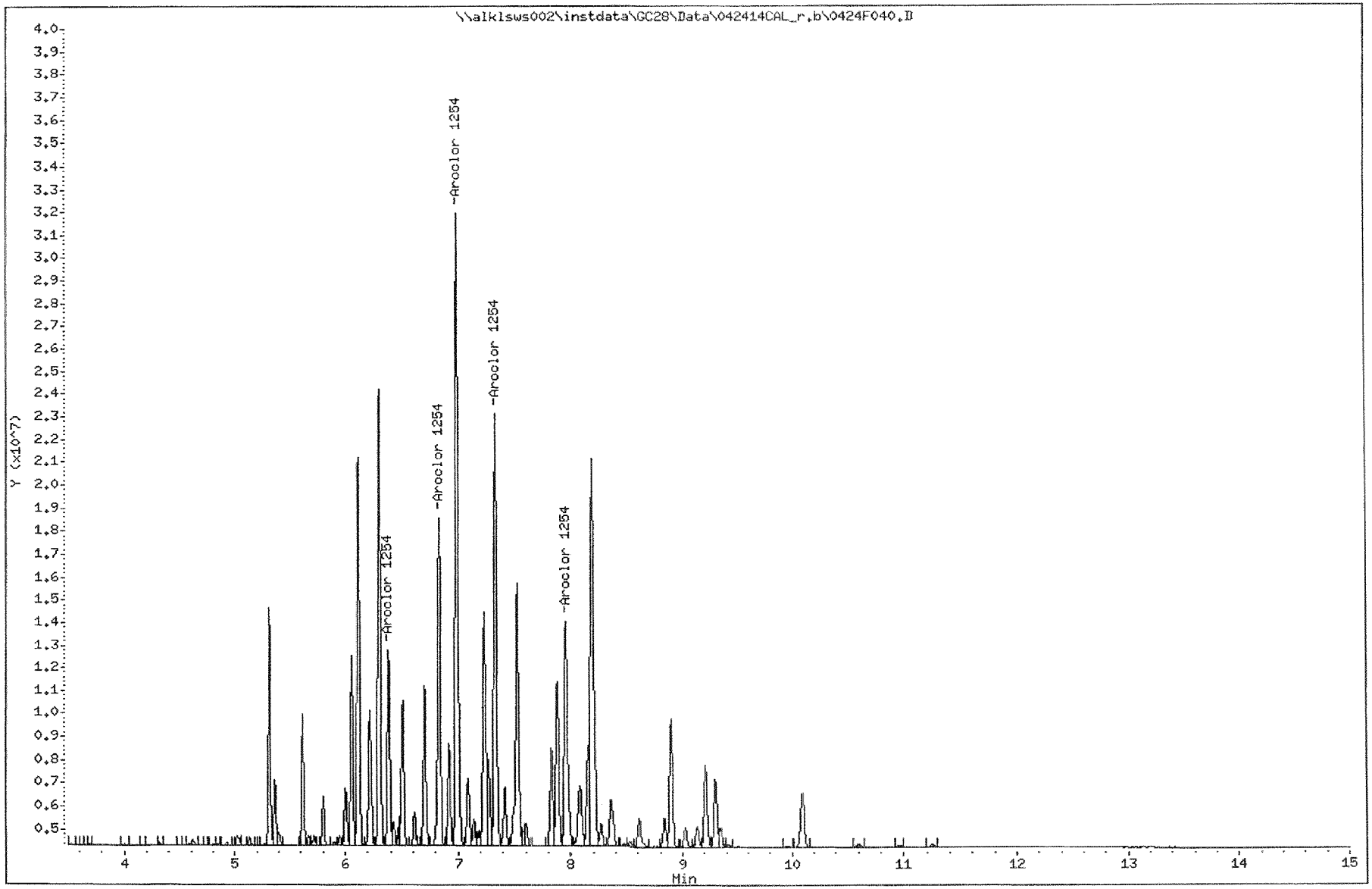
Data File: \\alklsws002\instdata\GC28\Data\042414CAL_r.b\0424F040.D
Date : 25-APR-2014 20:01
Client ID:
Sample Info: 1254 ICV @ 1000ppb PCB6-36N

Instrument: GC28.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32



Data File: \\alklsws002\instdata\GC28\Data\042414CAL.b\0424F041.D
Report Date: 26-Apr-2014 01:14

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC28\Data\042414CAL.b\0424F041.D
Sample #2 : \\alklsws002\instdata\GC28\Data\042414CAL_r.b\0424F041.D
Inj Date : 25-APR-2014 20:24
Sample Info: 1260 ICV @ 1000ppb PCB6-36O
Misc Info :
Cal Date : 26-APR-2014 01:08
Operator : JMSmith
Inst ID : GC28.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC28\Data\042414CAL.b\042414_f.m
Method #2 : \\alklsws002\instdata\GC28\Data\042414CAL_r.b\042414_r.m
Sub List #1 : AR1260.sub
Sub List #2 : AR1260.sub
Col #1 Phase : DB-XLB
Col #2 Phase : DB-35MS

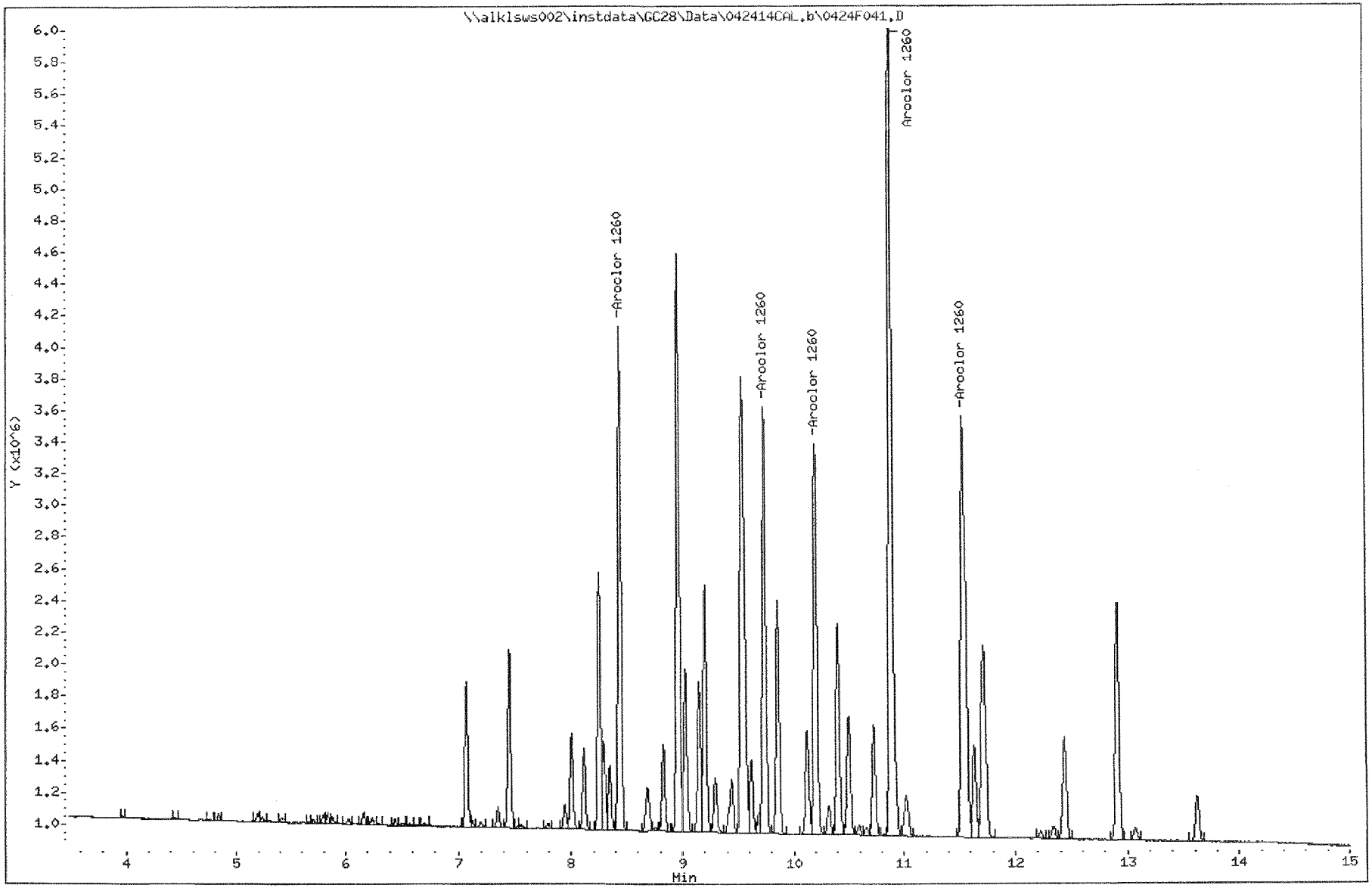
Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1260	8.439	7.829	6031782	16825156	937	961	80.00- 120.00	100.00
	9.739	8.269	5478085	32870280	1170	1130	61.10- 91.65	90.82
	10.199	8.832	5521819	32318243	1080	1100	66.20- 99.30	91.55
	10.889	9.299	12612815	79323405	1090	1110	155.26- 232.89	209.11
	11.536	10.099	8059627	58187964	1080	1080	100.27- 150.40	133.62
			Average of Peak Amounts =		1070	1080		

Data File: \\alklsws002\instdata\GC28\Data\042414CAL.b\0424F041.D
Date : 25-APR-2014 20:24
Client ID:
Sample Info: 1260 ICV @ 1000ppb PCB6-360

Column phase: DB-XLB

Instrument: GC28.i

Operator: JMSmith
Column diameter: 0.32



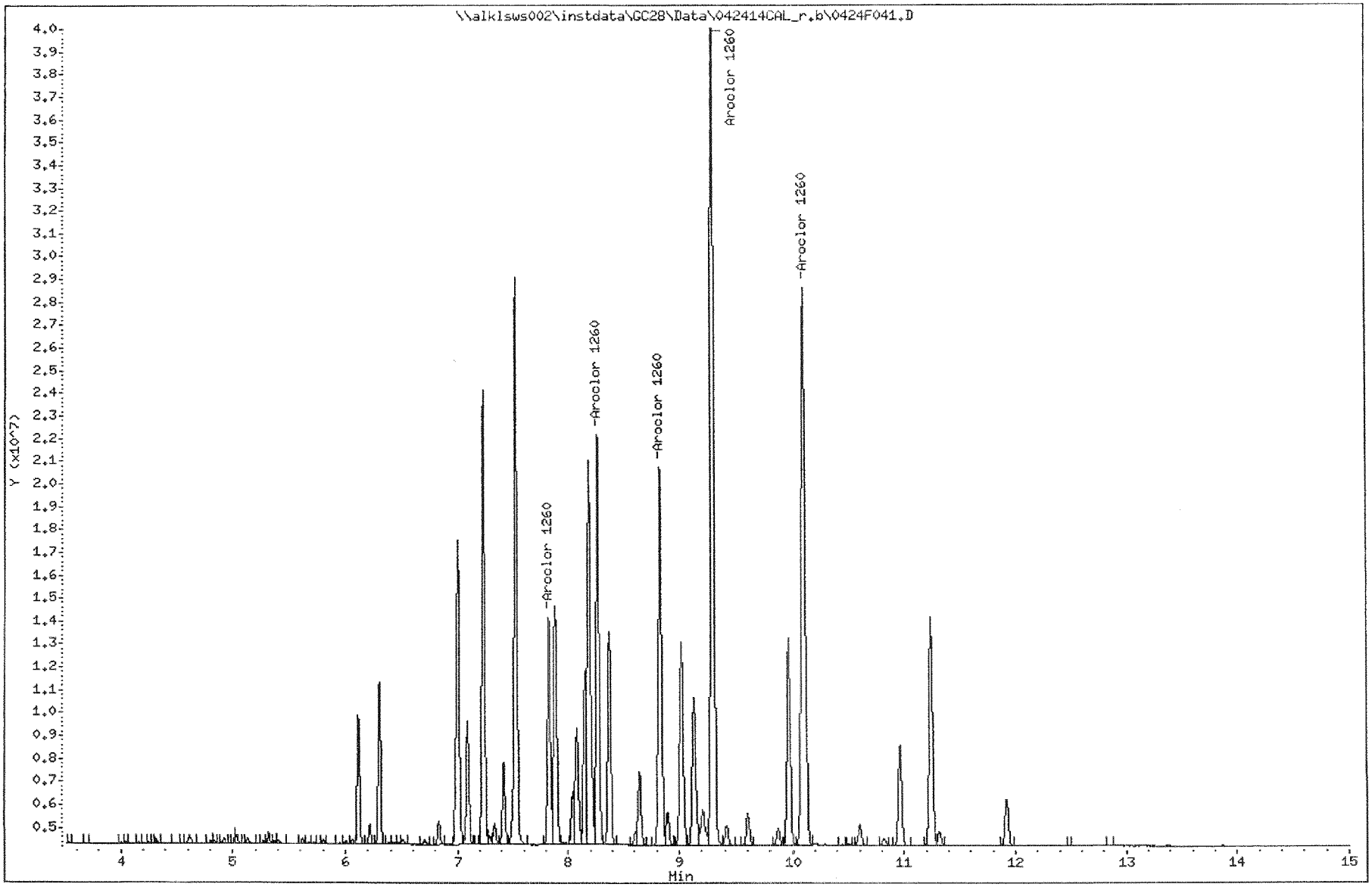
Data File: \\alklsws002\instdata\GC28\Data\042414CAL_r.b\0424F041.D
Date : 25-APR-2014 20:24
Client ID:
Sample Info: 1260 ICV @ 1000ppb PCB6-360

Instrument: GC28.i

Operator: JHSmith

Column phase: DB-35MS

Column diameter: 0.32



Data File: \\alklsws002\instdata\GC28\Data\042414CAL.b\0424F042.D
Report Date: 26-Apr-2014 01:14

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC28\Data\042414CAL.b\0424F042.D
Sample #2 : \\alklsws002\instdata\GC28\Data\042414CAL_r.b\0424F042.D
Inj Date : 25-APR-2014 20:47
Sample Info: 1262 ICV @ 1000ppb PCB6-37A
Misc Info :
Cal Date : 26-APR-2014 01:08
Operator : JMSmith
Inst ID : GC28.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC28\Data\042414CAL.b\042414_f.m
Method #2 : \\alklsws002\instdata\GC28\Data\042414CAL_r.b\042414_r.m
Sub List #1 : AR1262.SUB
Sub List #2 : AR1262.SUB
Col #1 Phase : DB-XLB
Col #2 Phase : DB-35MS

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1262	9.738	8.271	8113962	46032645	1010	951	80.00- 120.00	100.00
	10.198	8.835	6171008	38423324	954	929	63.47- 95.20	76.05
	10.888	9.298	14248117	86118824	1000	995	146.16- 219.25	175.60
	11.558	10.098	9629807	63045766	979	960	98.30- 147.44	118.68
	12.908	11.241	5344845	31925107	992	984	53.66- 80.49	65.87
			Average of Peak Amounts =		987	964		

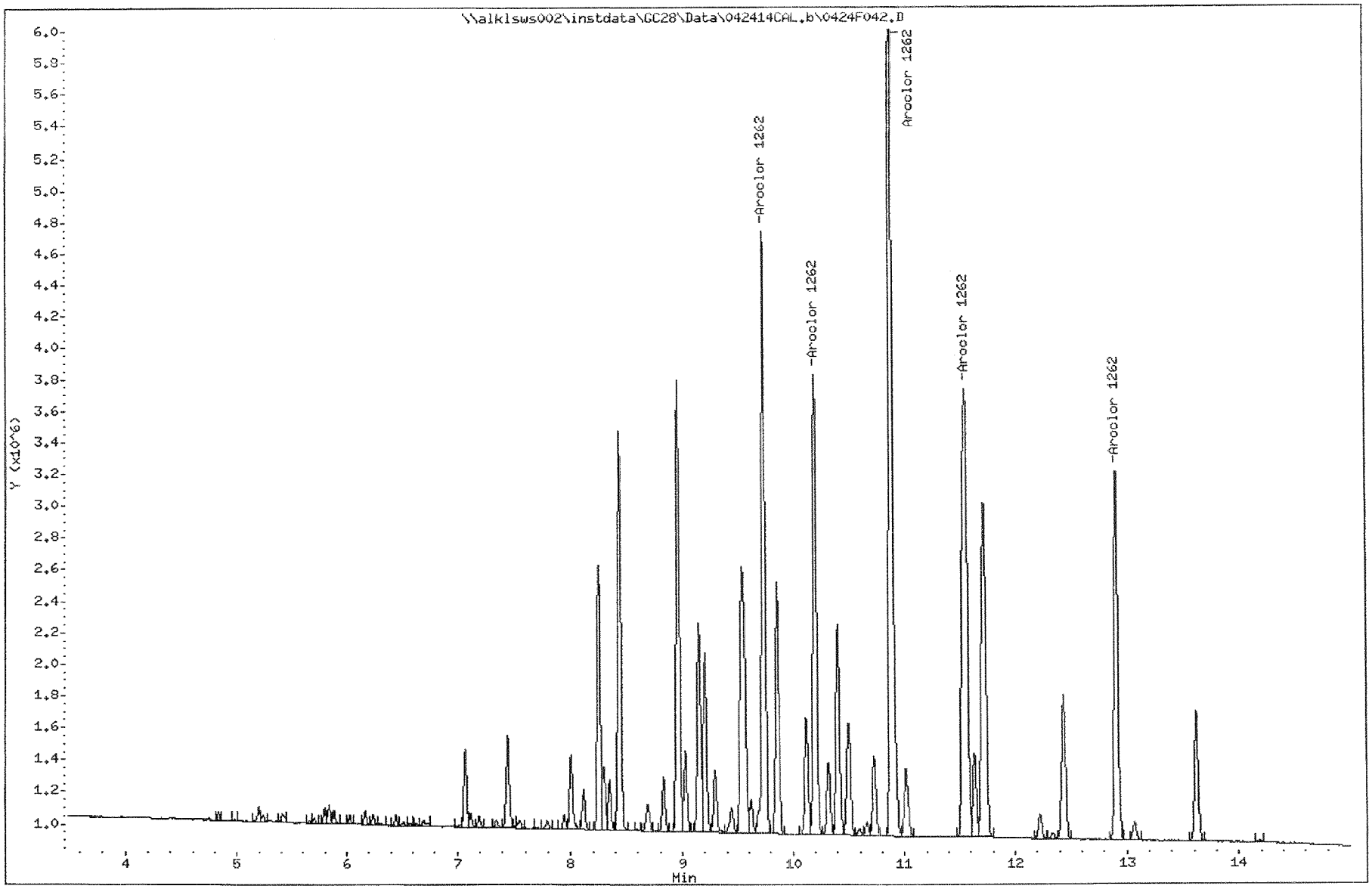
Data File: \\alklsws002\instdata\GC28\Data\042414CAL.b\0424F042.D
Date : 25-APR-2014 20:47
Client ID:
Sample Info: 1262 ICV @ 1000ppb PCB6-37A

Instrument: GC28.i

Operator: JMSmith

Column phase: DB-XLB

Column diameter: 0.32



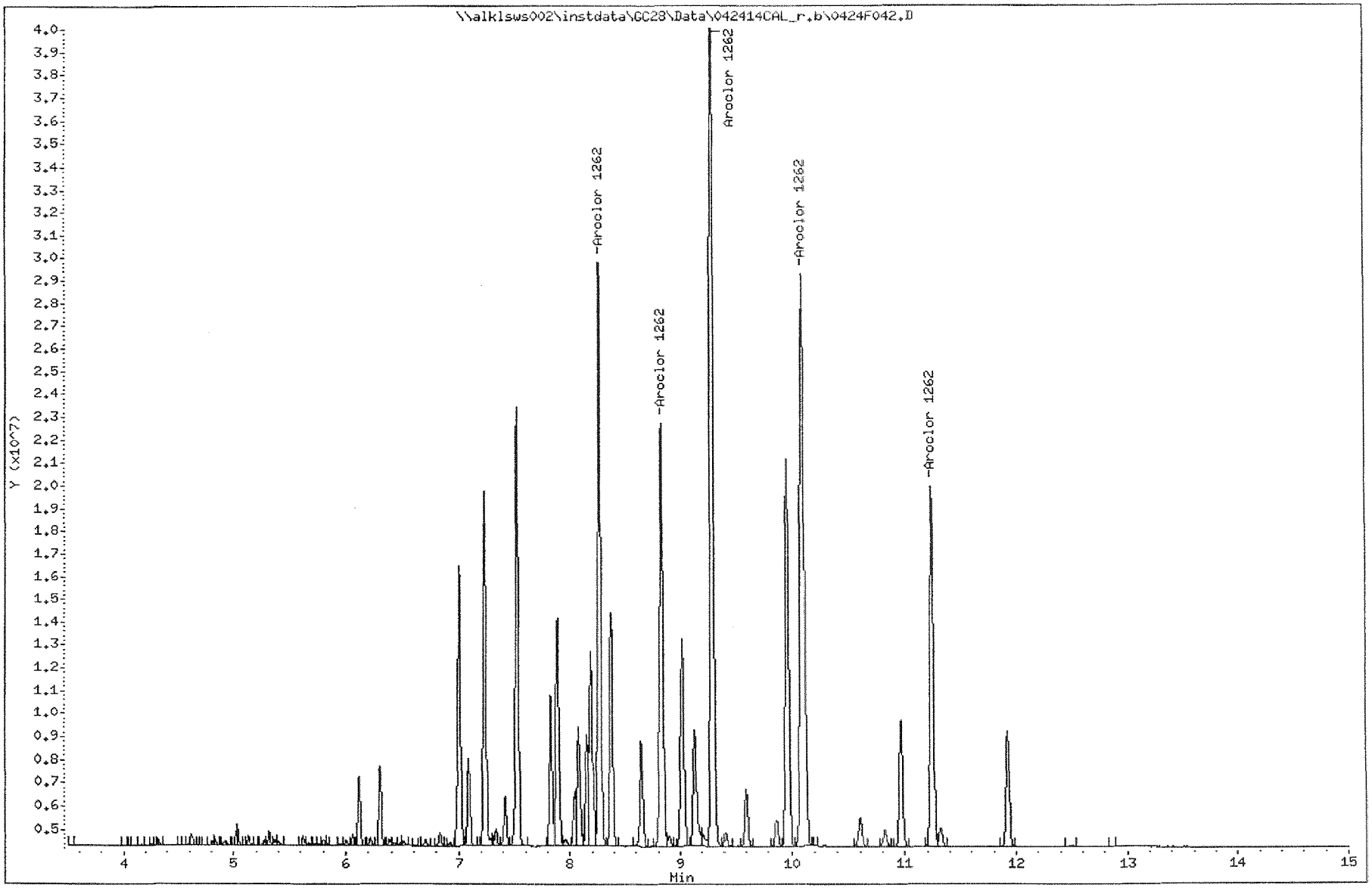
Data File: \\alklsws002\instdata\GC28\Data\042414CAL_r.b\0424F042.D
Date : 25-APR-2014 20:47
Client ID:
Sample Info: 1262 ICV @ 1000ppb PCB6-37A

Instrument: GC28.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32



Data File: \\alklsws002\instdata\GC28\Data\042414CAL.b\0424F043.D
Report Date: 26-Apr-2014 01:14

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC28\Data\042414CAL.b\0424F043.D
Sample #2 : \\alklsws002\instdata\GC28\Data\042414CAL_r.b\0424F043.D
Inj Date : 25-APR-2014 21:10
Sample Info: 1268 ICV @ 1000ppb PCB6-37B
Misc Info :
Cal Date : 26-APR-2014 01:08
Operator : JMSmith
Inst ID : GC28.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC28\Data\042414CAL.b\042414_f.m
Method #2 : \\alklsws002\instdata\GC28\Data\042414CAL_r.b\042414_r.m
Sub List #1 : AR1268.SUB
Sub List #2 : AR1268.SUB
Col #1 Phase : DB-XLB
Col #2 Phase : DB-35MS

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1268	11.559	9.963	18744607	114863484	1030	978	80.00- 120.00	100.00
	11.729	10.093	18638189	115582574	1150	1110	72.15- 108.23	99.43
	12.219	10.596	12955408	79593108	929	878	62.05- 93.08	69.12
	13.619	11.923	38427015	235692232	874	846	200.65- 300.98	205.00
			Average of Peak Amounts =		996	953		

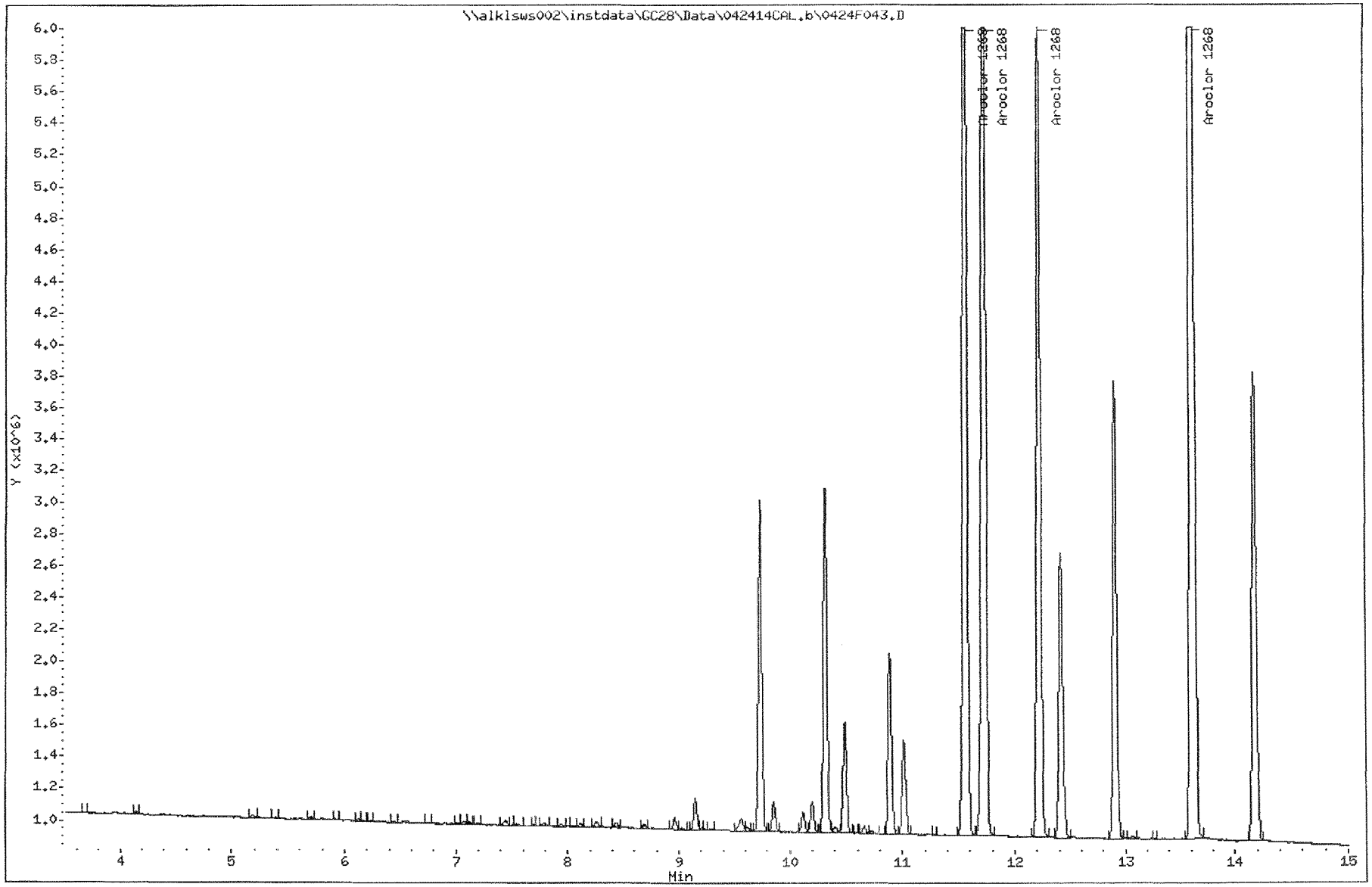
Data File: \\alklsws002\instdata\GC28\Data\042414CAL.b\0424F043.D
Date : 25-APR-2014 21:10
Client ID:
Sample Info: 1268 ICV @ 1000ppb PCB6-37B

Instrument: GC28.i

Operator: JMSmith

Column phase: DB-XLB

Column diameter: 0.32

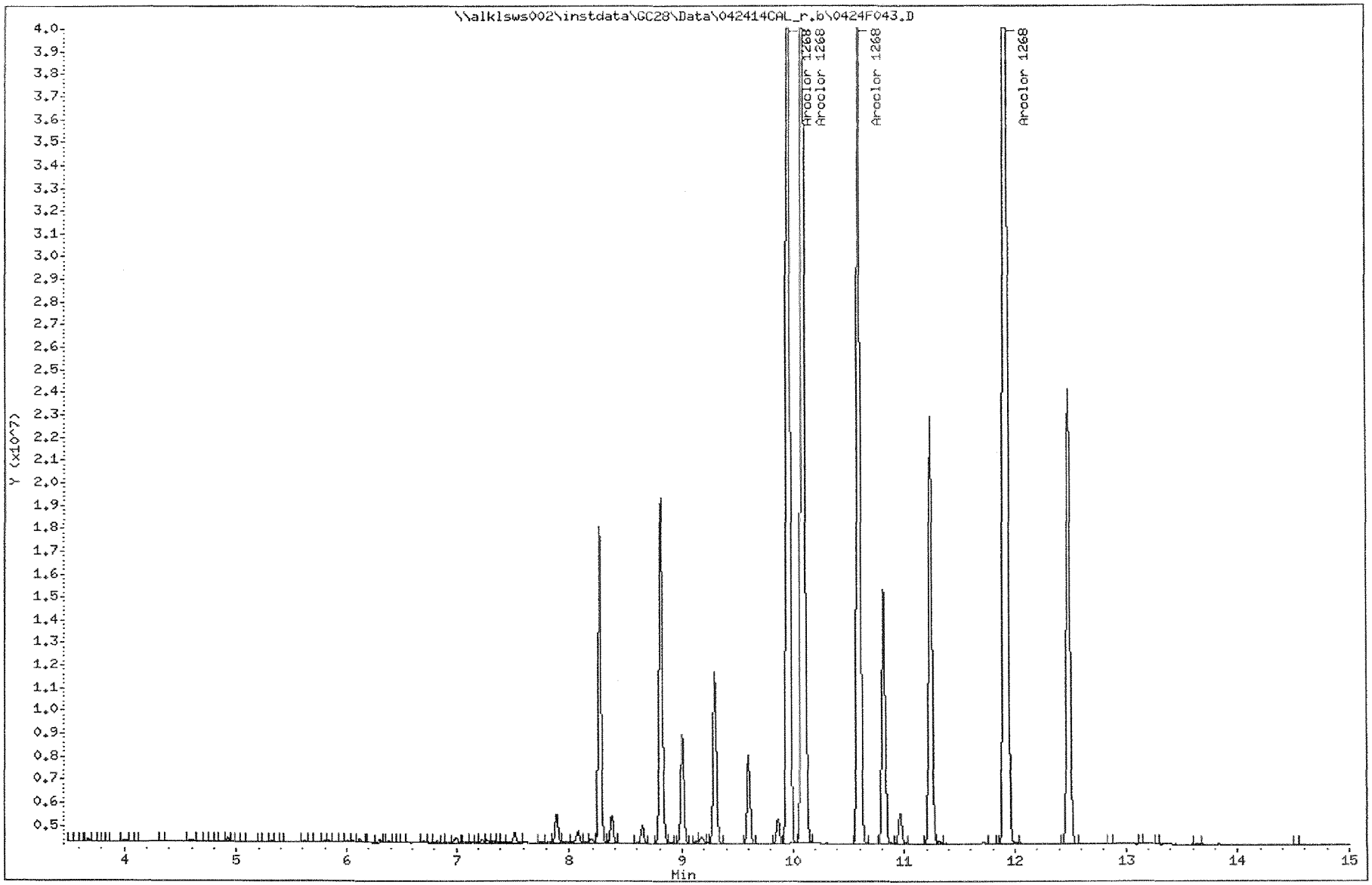


Data File: \\alklsws002\instdata\GC28\Data\042414CAL_r.b\0424F043.D
Date : 25-APR-2014 21:10
Client ID:
Sample Info: 1268 ICV @ 1000ppb PCB6-37B

Column phase: DB-35MS

Instrument: GC28.i

Operator: JMSmith
Column diameter: 0.32



Sequence Name: C:\GC28\SEQUENCE\042714.S
Comment: PCB Aroclors by EPA 8082A
Operator: JMSmith
Data Path: C:\GC28\DATA\042714\
Pre-Seq Cmd:
Post-Seq Cmd:

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

KWG1403893
CAL3281
Run # 38991

	Line	Type	Vial	DataFile	Method	Sample Name
	1	SOLN	90	0427F001	PCB_REG	HEXANE
	2	SOLN	90	0427F002	PCB_REG	HEXANE
OK, OK	3	CCV	96	0427F003	PCB_REG	1660 @ 50-500ppb PCB6-38M
	4	IB	86	0427F004	PCB_REG	IB
	5	LCS	1	0427F005	PCB_REG	KQ1403721-08LCS
	6	MB	2	0427F006	PCB_REG	KQ1403721-09MB
	7	SMPL	3	0427F007	PCB_REG	K1403129-001 @ 20X
	8	MS	4	0427F008	PCB_REG	K1403129-001MS @ 20X
	9	DMS	5	0427F009	PCB_REG	K1403129-001DMS @ 20X
	10	LCS	6	0427F010	PCB_REG	KQ1403905-06LCS
	11	MB	7	0427F011	PCB_REG	KQ1403905-07MB
	12	SMPL	8	0427F012	PCB_REG	K1403650-001
	13	MS	9	0427F013	PCB_REG	K1403650-001MS
	14	DMS	10	0427F014	PCB_REG	K1403650-001DMS
OK, OK	15	CCV	96	0427F015	PCB_REG	1660 @ 50-500ppb PCB6-38M
	16	IB	86	0427F016	PCB_REG	IB
	17	LCS	11	0427F017	PCB_REG	KQ1403617-03LCS
	18	MB	12	0427F018	PCB_REG	KQ1403617-04MB
	19	SMPL	13	0427F019	PCB_REG	K1403462-001
	20	SMPL	14	0427F020	PCB_REG	K1403462-002
	21	SMPL	15	0427F021	PCB_REG	K1403462-003 — [illegible]
	22	SMPL	16	0427F022	PCB_REG	K1403462-004
	23	SMPL	17	0427F023	PCB_REG	K1403462-005
	24	SMPL	18	0427F024	PCB_REG	K1403462-006
	25	MS	19	0427F025	PCB_REG	K1403462-006MS
	26	DMS	20	0427F026	PCB_REG	K1403462-006DMS
OK, OK	27	CCV	96	0427F027	PCB_REG	1660 @ 50-500ppb PCB6-38M
	28	IB	86	0427F028	PCB_REG	IB
	29					

Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC28\DATA\042714.B\0427F003.D
Lab ID: KWG1403893-1
RunType: CCV
Matrix: NOT APPLICABLE

Date Acquired: 04/28/2014 01:51
Date Quantitated: 04/30/2014 09:19
Batch ID: KWG1403893
Analysis Method: 8082A
MethodJoinID: MJ1038

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Primary Review: SS 4/30/14

Secondary Review: [illegible]

Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC28\DATA\042714_R.B\0427F003.D
Lab ID: KWG1403893-1
RunType: CCV
Matrix: NOT APPLICABLE

Date Acquired: 04/28/2014 01:51
Date Quantitated: 04/30/2014 09:19
Batch ID: KWG1403893
Analysis Method: 8082A
MethodJoinID: MJ1038

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Primary Review: SS 4/30/14

Secondary Review: [illegible] 30/14

Quantitation Report

Data File #1:	J:\GC28\DATA\042714.B\0427F003.D			**Instrument:**	GC28.i
Data File #2:	\\alklsws002\instdata\GC28\Data\042714_r.b\0427F003.D			**Vial:**	96
Acqu Date:	04/28/2014 01:51	**Quant Date:**	04/30/2014 09:19	**Dilution:**	1.0
Run Type:	CCV			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1403893-1				
Signal #1:	DB-XLB	**Signal #2:**	DB-35MS		

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLE
Prod Code:	8082A PCB	**Collect Date:**		**Receive Date:**	04/30/2014

Analysis Lot:	KWG1403893	**Prep Lot:**		**Report Group:**	
Analysis Method:	8082A	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	\\ALKLSWS002\INSTDATA\GC28\DATA\042714.B\042414_F.M	**Calibration ID:**	CAL13284
Title:			
MB Ref:		**Method ID:**	MJ1038
		Quant based on Method	

Surrogate Compounds

Parameter Name	RT #1	RT #2	Resp #1	Respe #2	ng/mL #1	ng/mL #2			Rpt
Tetrachloro-m-xylene	4.53	3.94	5475134	29567439	47.50	48.95			NA
				%Recovery =	NA	NA	Limits =	33-120	
Decachlorobiphenyl	14.17	12.47	5887616	32815192	51.99	46.27			NA
				%Recovery =	NA	NA	Limits =	37-139	

Target Compounds

Final Conc. Units:

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Aroclor 1016			0	0	503.36	477.72			
Aroclor 1016 {1}	4.83	4.83	1215819	4711542	505.53	484.49			
Aroclor 1016 {2}	5.83	5.03	2860947	15499179	494.30	484.69			
Aroclor 1016 {3}	5.87	5.12	1909560	10094822	501.93	471.93			
Aroclor 1016 {4}	6.23	5.31	1461098	7880503	505.45	472.79			
Aroclor 1016 {5}	6.44	5.61	1453295	8118264	509.61	474.73			
Aroclor 1260			0	0	482.04	435.92			
Aroclor 1260 {1}	8.43	7.82	3024772	7545927	470.01	430.93			
Aroclor 1260 {2}	9.72	8.26	2296021	12711499	492.43	437.47			
Aroclor 1260 {3}	10.18	8.82	2425222	12786378	474.61	435.47			
Aroclor 1260 {4}	10.88	9.28	5516611	30737756	478.88	431.31			
Aroclor 1260 {5}	11.52	10.08	3701300	23907452	494.28	444.41			

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File: \\alklsws002\instdata\GC28\Data\042714.b\0427F003.D
Report Date: 30-Apr-2014 09:19

CAS

Sample #1 : \\alklsws002\instdata\GC28\Data\042714.b\0427F003.D
Sample #2 : \\alklsws002\instdata\GC28\Data\042714_r.b\0427F003.D
Inj Date : 28-APR-2014 01:51
Sample Info: 1660 @ 50-500ppb PCB6-38M
Misc Info :
Cal Date : 28-APR-2014 22:13
Operator : JMSmith
Inst ID : GC28.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC28\Data\042714.b\042414_f.m
Method #2 : \\alklsws002\instdata\GC28\Data\042714_r.b\042414_r.m
Sub List #1 : 1660.SUB
Sub List #2 : 1660.SUB
Col #1 Phase : DB-XLB
Col #2 Phase : DB-35MS

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Tetrachloro-m-xylene	4.528	3.938	5475134	29567439	47.5	49.0		100.00
Aroclor 1016	4.828	4.828	1215819	4711542	506	484	80.00- 120.00	100.00
	5.828	5.025	2860947	15499179	494	485	189.76- 284.64	235.31
	5.872	5.122	1909560	10094822	502	472	126.48- 189.73	157.06
	6.228	5.305	1461098	7880503	505	473	96.67- 145.00	120.17
	6.435	5.608	1453295	8118264	510	475	95.09- 142.63	119.53
		Average of Peak Amounts =			503	478		
Aroclor 1260	8.425	7.815	3024772	7545927	470	431	80.00- 120.00	100.00
	9.722	8.255	2296021	12711499	492	437	59.87- 89.80	75.91
	10.182	8.818	2425222	12786378	475	435	62.64- 93.96	80.18
	10.875	9.282	5516611	30737756	479	431	140.82- 211.23	182.38
	11.522	10.078	3701300	23907452	494	444	94.76- 142.14	122.37
		Average of Peak Amounts =			482	436		
Decachlorobiphenyl	14.165	12.472	5887616	32815192	52.0	46.3		100.00

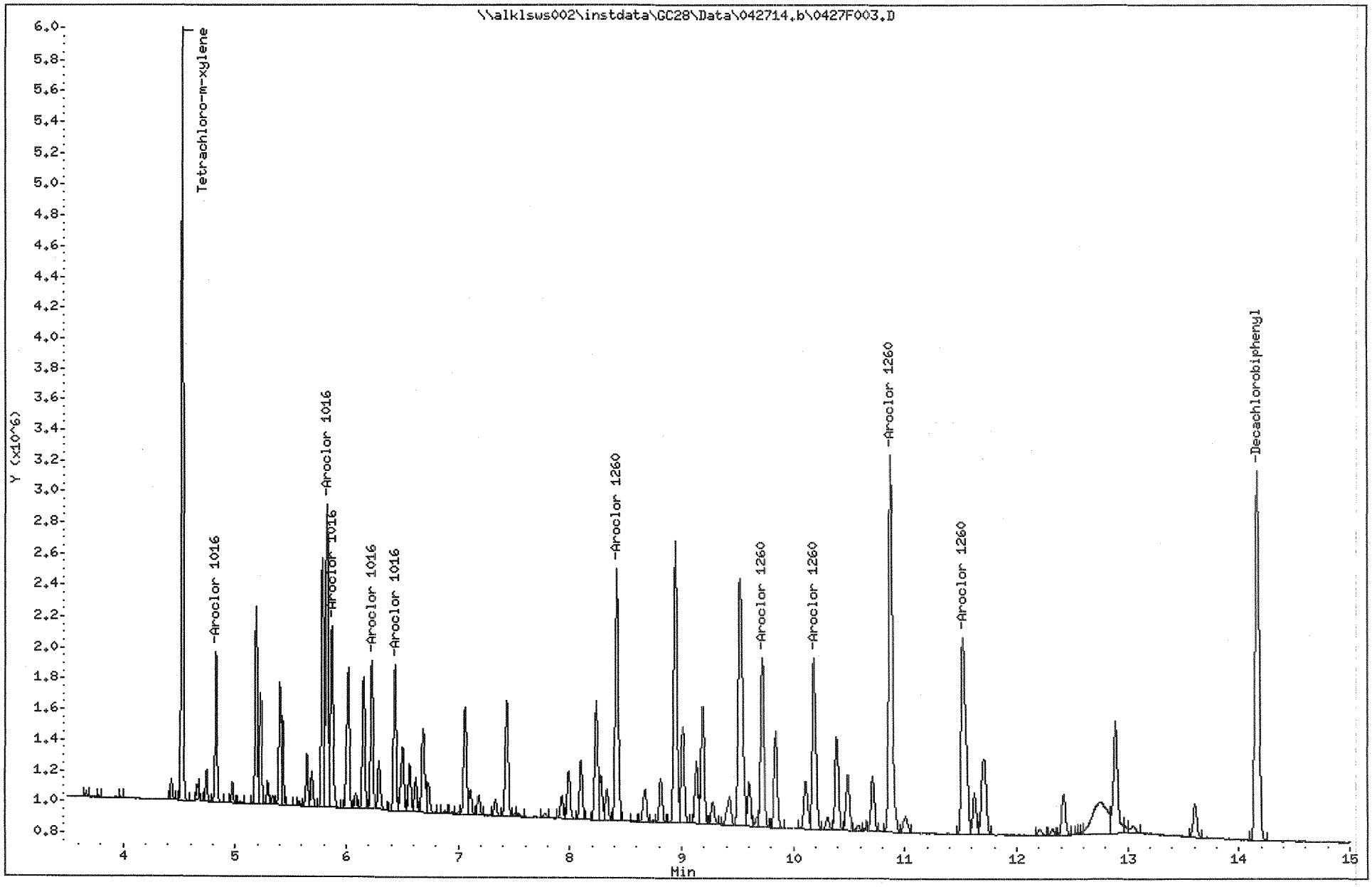
Data File: \\alklsws002\instdata\GC28\Data\042714.b\0427F003.D
Date : 28-APR-2014 01:51
Client ID:
Sample Info: 1660 @ 50-500ppb PCB6-38M

Instrument: GC28.i

Operator: JMSmith

Column phase: DB-XLB

Column diameter: 0.32



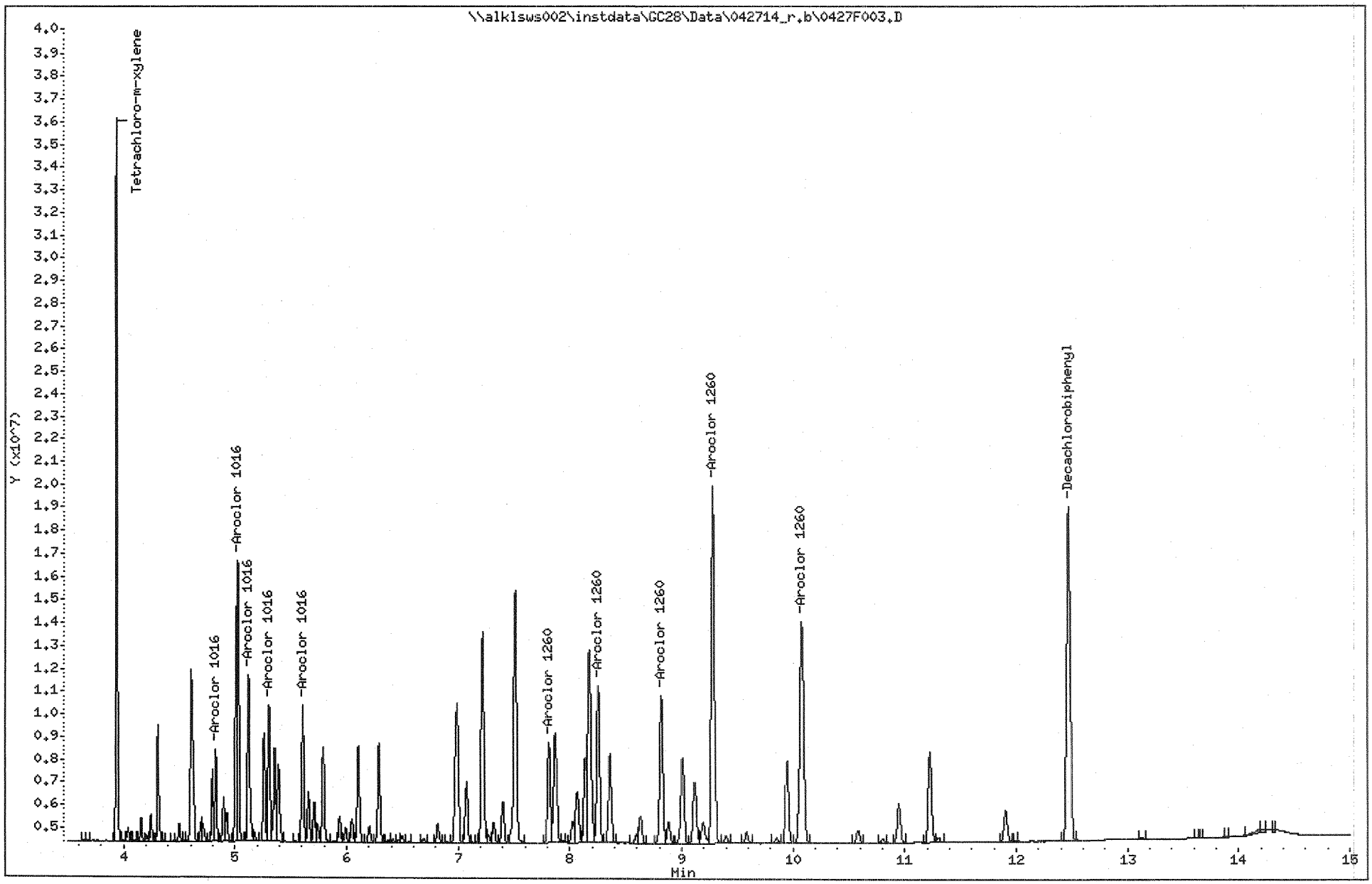
Data File: \\alklsws002\instdata\GC28\Data\042714_r.b\0427F003.D
Date : 28-APR-2014 01:51
Client ID:
Sample Info: 1660 @ 50-500ppb PCB6-38M

Instrument: GC28.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32



Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC28\DATA\042714.B\0427F004.D
Lab ID: KWG1403893-2
RunType: IB
Matrix: NOT APPLICABLE

Date Acquired: 04/28/2014 02:14
Date Quantitated: 04/30/2014 09:19
Batch ID: KWG1403893
Analysis Method: 8082A
MethodJoinID: MJ1038

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Primary Review: SS 4/30/14

Secondary Review: 4/30/14

Exception Report

Data File:	\\ALKLSWS002\INSTDATA\GC28\DATA\042714_R.B\0427F004.D	**Date Acquired:**	04/28/2014 02:14
Lab ID:	KWG1403893-2	**Date Quantitated:**	04/30/2014 09:19
RunType:	IB	**Batch ID:**	KWG1403893
Matrix:	NOT APPLICABLE	**Analysis Method:**	8082A
		MethodJoinID:	MJ1038

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Primary Review: SS 4/30/14

Secondary Review: [illegible]

Quantitation Report

Data File #1:	J:\GC28\DATA\042714.B\0427F004.D			**Instrument:**	GC28.i
Data File #2:	\\alklsws002\instdata\GC28\Data\042714_r.b\0427F004.D			**Vial:**	86
Acqu Date:	04/28/2014 02:14	**Quant Date:**	04/30/2014 09:19	**Dilution:**	1.0
Run Type:	IB			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1403893-2				
Signal #1:	DB-XLB	**Signal #2:**	DB-35MS		

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLE
Prod Code:	8082A PCB	**Collect Date:**		**Receive Date:**	04/30/2014

Analysis Lot:	KWG1403893	**Prep Lot:**		**Report Group:**	
Analysis Method:	8082A	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	\\ALKLSWS002\INSTDATA\GC28\DATA\042714.B\042414_F.M	**Calibration ID:**	CAL13284
Title:			
MB Ref:		**Method ID:**	MJ731
		Quant based on Method	

Surrogate Compounds

Parameter Name	RT #1	RT #2	Resp #1	Respe #2	ng/mL #1	ng/mL #2			Rpt
Tetrachloro-m-xylene	4.49		10094	0	0.0880	0.0000			NA
			%Recovery =		NA	NA	Limits =	30-125	
Decachlorobiphenyl	0.00	12.49	0	216302		0.3050			NA
			%Recovery =		NA	NA	Limits =	43-148	

Target Compounds

Final Conc. Units:

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	mg/Kg #1	mg/Kg #2	Rpt
Aroclor 1016			0	0	0.0000	0.0000			
Aroclor 1016 {1}			0	0	0.0000	0.0000			
Aroclor 1016 {2}			0	0	0.0000	0.0000			
Aroclor 1016 {3}			0	0	0.0000	0.0000			
Aroclor 1016 {4}			0	0	0.0000	0.0000			
Aroclor 1016 {5}			0	0	0.0000	0.0000			
Aroclor 1221			0	0	0.0000	0.0000			
Aroclor 1221 {1}			0	0	0.0000	0.0000			
Aroclor 1221 {2}			0	0	0.0000	0.0000			
Aroclor 1221 {3}			0	0	0.0000	0.0000			
Aroclor 1232			0	0	0.0000	0.0000			
Aroclor 1232 {1}			0	0	0.0000	0.0000			
Aroclor 1232 {2}			0	0	0.0000	0.0000			
Aroclor 1232 {3}			0	0	0.0000	0.0000			
Aroclor 1232 {4}			0	0	0.0000	0.0000			
Aroclor 1232 {5}			0	0	0.0000	0.0000			
Aroclor 1242			0	0	0.0000	0.0000			

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File #1:	J:\GC28\DATA\042714.B\0427F004.D			**Instrument:**	GC28.i
Data File #2:	\\alklsws002\instdata\GC28\Data\042714_r.b\0427F004.D			**Vial:**	86
Acqu Date:	04/28/2014 02:14	**Quant Date:**	04/30/2014 09:19	**Dilution:**	1.0
Run Type:	IB			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1403893-2				
Signal #1:	DB-XLB	**Signal #2:**	DB-35MS		

Target Compounds **Final Conc. Units:**

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	mg/Kg #1	mg/Kg #2	Rpt
Aroclor 1242 {1}			0	0	0.0000	0.0000			
Aroclor 1242 {2}			0	0	0.0000	0.0000			
Aroclor 1242 {3}			0	0	0.0000	0.0000			
Aroclor 1242 {4}			0	0	0.0000	0.0000			
Aroclor 1242 {5}			0	0	0.0000	0.0000			
Aroclor 1248			0	0	0.0000	0.0000			
Aroclor 1248 {1}			0	0	0.0000	0.0000			
Aroclor 1248 {2}			0	0	0.0000	0.0000			
Aroclor 1248 {3}			0	0	0.0000	0.0000			
Aroclor 1248 {4}			0	0	0.0000	0.0000			
Aroclor 1248 {5}			0	0	0.0000	0.0000			
Aroclor 1254			0	0	0.0000	0.0000			
Aroclor 1254 {1}			0	0	0.0000	0.0000			
Aroclor 1254 {2}			0	0	0.0000	0.0000			
Aroclor 1254 {3}			0	0	0.0000	0.0000			
Aroclor 1254 {4}			0	0	0.0000	0.0000			
Aroclor 1254 {5}			0	0	0.0000	0.0000			
Aroclors, Total			0	0	0.0000	0.0000			
Aroclor 1260			0	0	0.0000	0.0000			
Aroclor 1260 {1}			0	0	0.0000	0.0000			
Aroclor 1260 {2}			0	0	0.0000	0.0000			
Aroclor 1260 {3}			0	0	0.0000	0.0000			
Aroclor 1260 {4}			0	0	0.0000	0.0000			
Aroclor 1260 {5}			0	0	0.0000	0.0000			
Aroclor 1262			0	0	0.0000	0.0000			
Aroclor 1262 {1}			0	0	0.0000	0.0000			
Aroclor 1262 {2}			0	0	0.0000	0.0000			
Aroclor 1262 {3}			0	0	0.0000	0.0000			
Aroclor 1262 {4}			0	0	0.0000	0.0000			
Aroclor 1262 {5}			0	0	0.0000	0.0000			
Aroclor 1268			0	0	0.0000	0.0000			
Aroclor 1268 {1}			0	0	0.0000	0.0000			
Aroclor 1268 {2}			0	0	0.0000	0.0000			
Aroclor 1268 {3}			0	0	0.0000	0.0000			
Aroclor 1268 {4}			0	0	0.0000	0.0000			

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File: \\alklsws002\instdata\GC28\Data\042714.b\0427F004.D
Report Date: 30-Apr-2014 09:19

CAS

Sample #1 : \\alklsws002\instdata\GC28\Data\042714.b\0427F004.D
Sample #2 : \\alklsws002\instdata\GC28\Data\042714_r.b\0427F004.D
Inj Date : 28-APR-2014 02:14
Sample Info: IB
Misc Info :
Cal Date : 28-APR-2014 22:13
Operator : JMSmith
Inst ID : GC28.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC28\Data\042714.b\042414_f.m
Method #2 : \\alklsws002\instdata\GC28\Data\042714_r.b\042414_r.m
Sub List #1 : ALL.SUB
Sub List #2 : ALL.SUB
Col #1 Phase : DB-XLB
Col #2 Phase : DB-35MS

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Tetrachloro-m-xylene	4.490	0.000	10094	0	0.0876	0.000		100.00
Decachlorobiphenyl	0.000	12.487	0	216302	0.000	0.305		

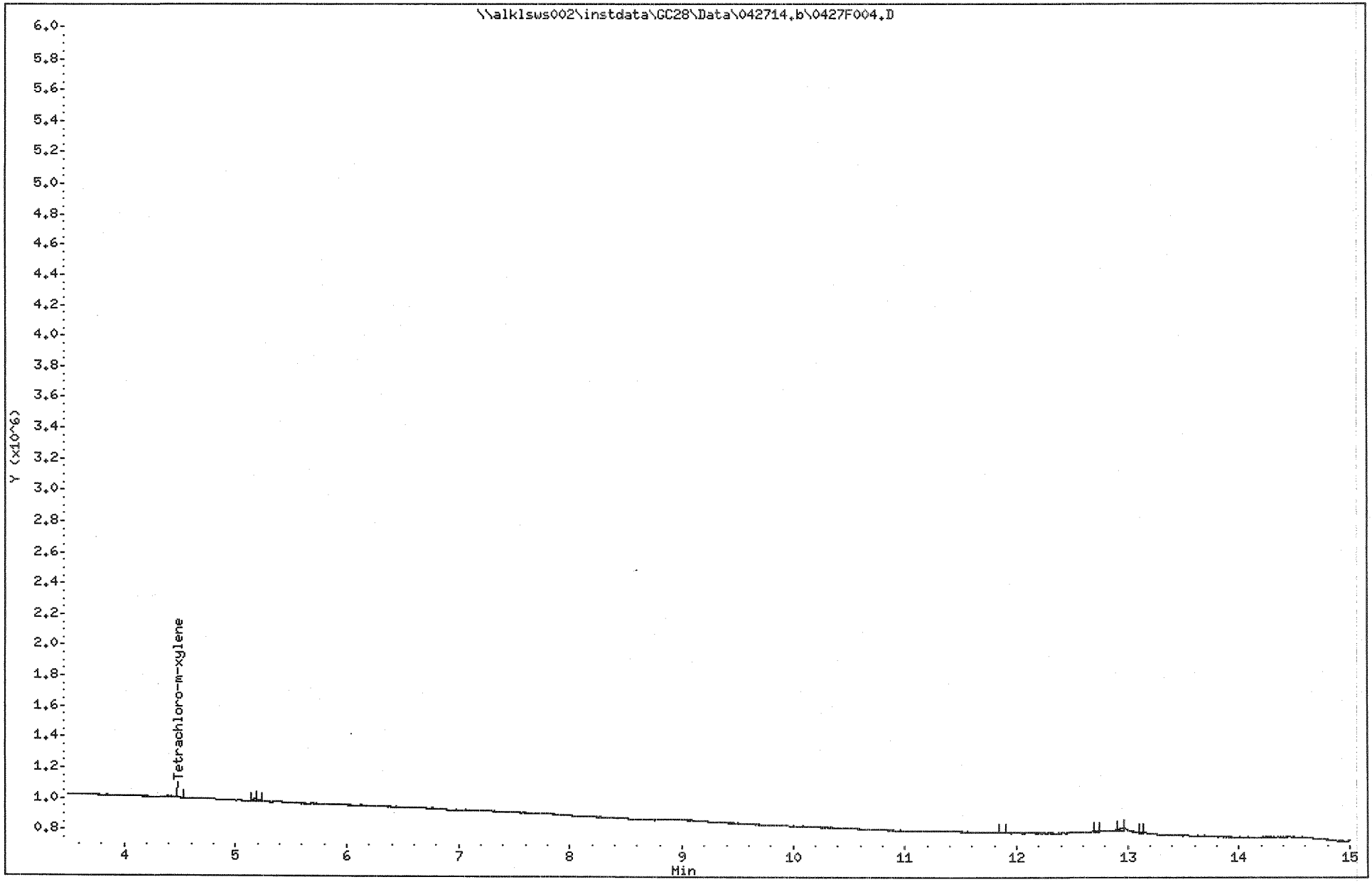
Data File: \\alklsws002\instdata\GC28\Data\042714.b\0427F004.D
Date : 28-APR-2014 02:14
Client ID:
Sample Info: IB

Instrument: GC28.i

Operator: JMSmith

Column phase: DB-XLB

Column diameter: 0.32



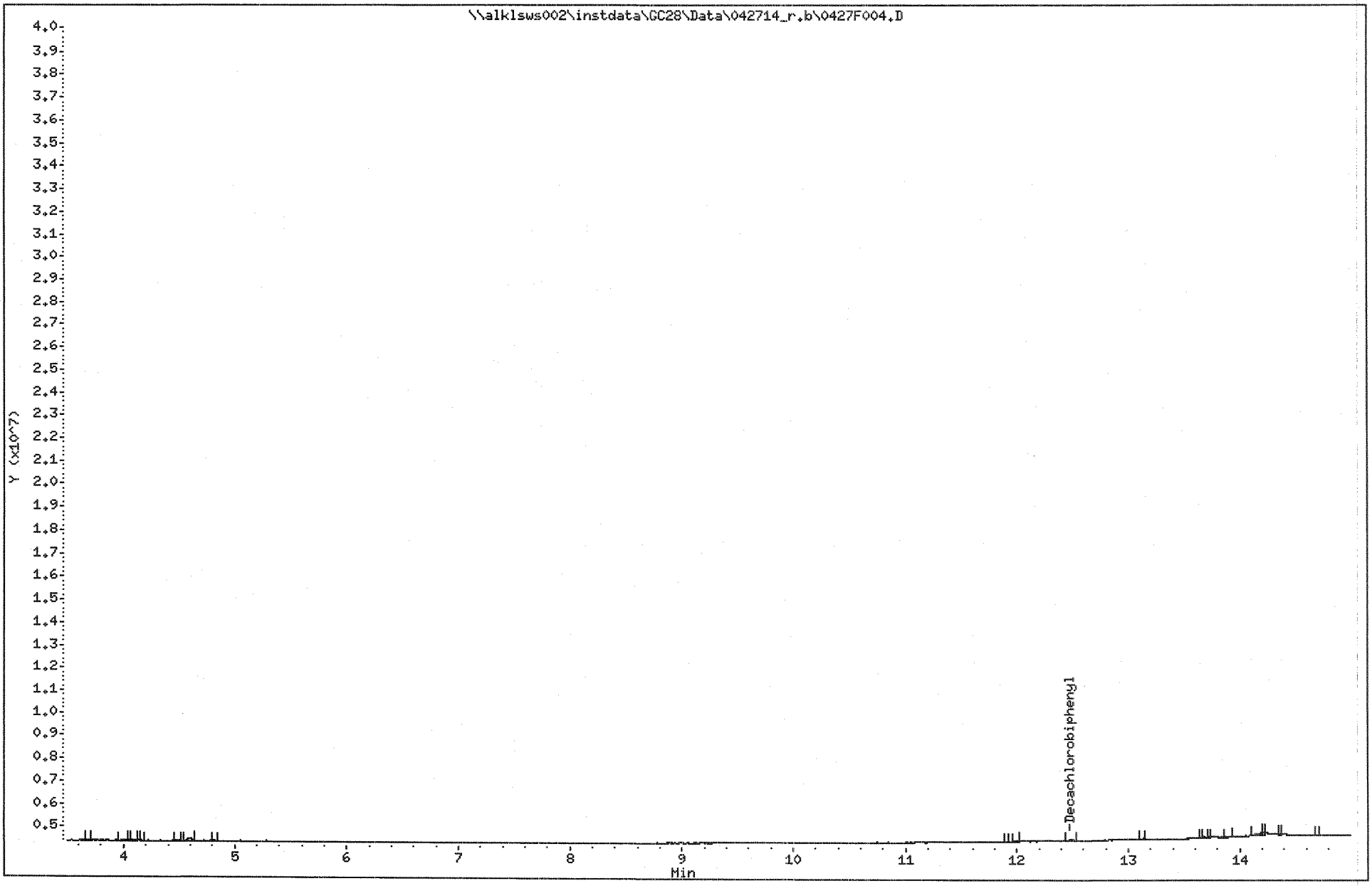
Data File: \\alklsws002\instdata\GC28\Data\042714_r.b\0427F004.D
Date : 28-APR-2014 02:14
Client ID:
Sample Info: IB

Instrument: GC28.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32



Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC28\DATA\042714.B\0427F015.D
Lab ID: KWG1403893-3
RunType: CCV
Matrix: NOT APPLICABLE

Date Acquired: 04/28/2014 06:27
Date Quantitated: 04/30/2014 09:19
Batch ID: KWG1403893
Analysis Method: 8082A
MethodJoinID: MJ1038

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Primary Review: SS 4/30/14

Secondary Review: [illegible]

Exception Report

Data File:	\\ALKLSWS002\INSTDATA\GC28\DATA\042714_R.B\0427F015.D	**Date Acquired:**	04/28/2014 06:27
Lab ID:	KWG1403893-3	**Date Quantitated:**	04/30/2014 09:19
RunType:	CCV	**Batch ID:**	KWG1403893
Matrix:	NOT APPLICABLE	**Analysis Method:**	8082A
		MethodJoinID:	MJ1038

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Primary Review: SS 4/30/14

Secondary Review: [illegible] 4/30/14

Quantitation Report

Data File #1:	J:\GC28\DATA\042714.B\0427F015.D			**Instrument:**	GC28.i
Data File #2:	\\alklsws002\instdata\GC28\Data\042714_r.b\0427F015.D			**Vial:**	96
Acqu Date:	04/28/2014 06:27	**Quant Date:**	04/30/2014 09:19	**Dilution:**	1.0
Run Type:	CCV			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1403893-3				
Signal #1:	DB-XLB	**Signal #2:**	DB-35MS		

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLE
Prod Code:	8082A PCB	**Collect Date:**		**Receive Date:**	04/30/2014

Analysis Lot:	KWG1403893	**Prep Lot:**		**Report Group:**	
Analysis Method:	8082A	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	\\ALKLSWS002\INSTDATA\GC28\DATA\042714.B\042414_F.M	**Calibration ID:**	CAL13284
Title:			
MB Ref:		**Method ID:**	MJ1038
		Quant based on Method	

Surrogate Compounds

Parameter Name	RT #1	RT #2	Resp #1	Respe #2	ng/mL #1	ng/mL #2			Rpt
Tetrachloro-m-xylene	4.53	3.94	5580403	29845844	48.41	49.41			NA
				%Recovery =	NA	NA	Limits =	33-120	
Decachlorobiphenyl	14.17	12.48	6080752	33188722	53.70	46.80			NA
				%Recovery =	NA	NA	Limits =	37-139	

Target Compounds

Final Conc. Units:

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Aroclor 1016			0	0	513.00	484.72			
Aroclor 1016 {1}	4.83	4.83	1242681	4750301	516.70	488.48			
Aroclor 1016 {2}	5.83	5.03	2913144	15774653	503.32	493.30			
Aroclor 1016 {3}	5.88	5.13	1938377	10245334	509.51	478.96			
Aroclor 1016 {4}	6.23	5.31	1500547	8009772	519.10	480.55			
Aroclor 1016 {5}	6.44	5.61	1472596	8248353	516.38	482.34			
Aroclor 1260			0	0	501.59	449.05			
Aroclor 1260 {1}	8.43	7.82	3140704	7839961	488.03	447.73			
Aroclor 1260 {2}	9.73	8.26	2398639	13110799	514.44	451.21			
Aroclor 1260 {3}	10.19	8.83	2520174	13165720	493.19	448.39			
Aroclor 1260 {4}	10.88	9.29	5714668	31617264	496.07	443.65			
Aroclor 1260 {5}	11.53	10.09	3865534	24439147	516.21	454.29			

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File: \\alklsws002\instdata\GC28\Data\042714.b\0427F015.D
Report Date: 30-Apr-2014 09:19

CAS

Sample #1 : \\alklsws002\instdata\GC28\Data\042714.b\0427F015.D
Sample #2 : \\alklsws002\instdata\GC28\Data\042714_r.b\0427F015.D
Inj Date : 28-APR-2014 06:27
Sample Info: 1660 @ 50-500ppb PCB6-38M
Misc Info :
Cal Date : 28-APR-2014 22:14
Operator : JMSmith
Inst ID : GC28.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC28\Data\042714.b\042414_f.m
Method #2 : \\alklsws002\instdata\GC28\Data\042714_r.b\042414_r.m
Sub List #1 : 1660.SUB
Sub List #2 : 1660.SUB
Col #1 Phase : DB-XLB
Col #2 Phase : DB-35MS

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Tetrachloro-m-xylene	4.534	3.944	5580403	29845844	48.4	49.4		100.00
Aroclor 1016	4.834	4.834	1242681	4750301	517	488	80.00- 120.00	100.00
	5.834	5.031	2913144	15774653	503	493	189.76- 284.64	234.42
	5.878	5.128	1938377	10245334	510	479	126.48- 189.73	155.98
	6.234	5.311	1500547	8009772	519	481	96.67- 145.00	120.75
	6.441	5.614	1472596	8248353	516	482	95.09- 142.63	118.50
		Average of Peak Amounts =			513	485		
Aroclor 1260	8.431	7.821	3140704	7839961	488	448	80.00- 120.00	100.00
	9.731	8.261	2398639	13110799	514	451	59.87- 89.80	76.37
	10.191	8.828	2520174	13165720	493	448	62.64- 93.96	80.24
	10.881	9.291	5714668	31617264	496	444	140.82- 211.23	181.96
	11.528	10.088	3865534	24439147	516	454	94.76- 142.14	123.08
		Average of Peak Amounts =			501	449		
Decachlorobiphenyl	14.171	12.481	6080752	33188722	53.7	46.8		100.00

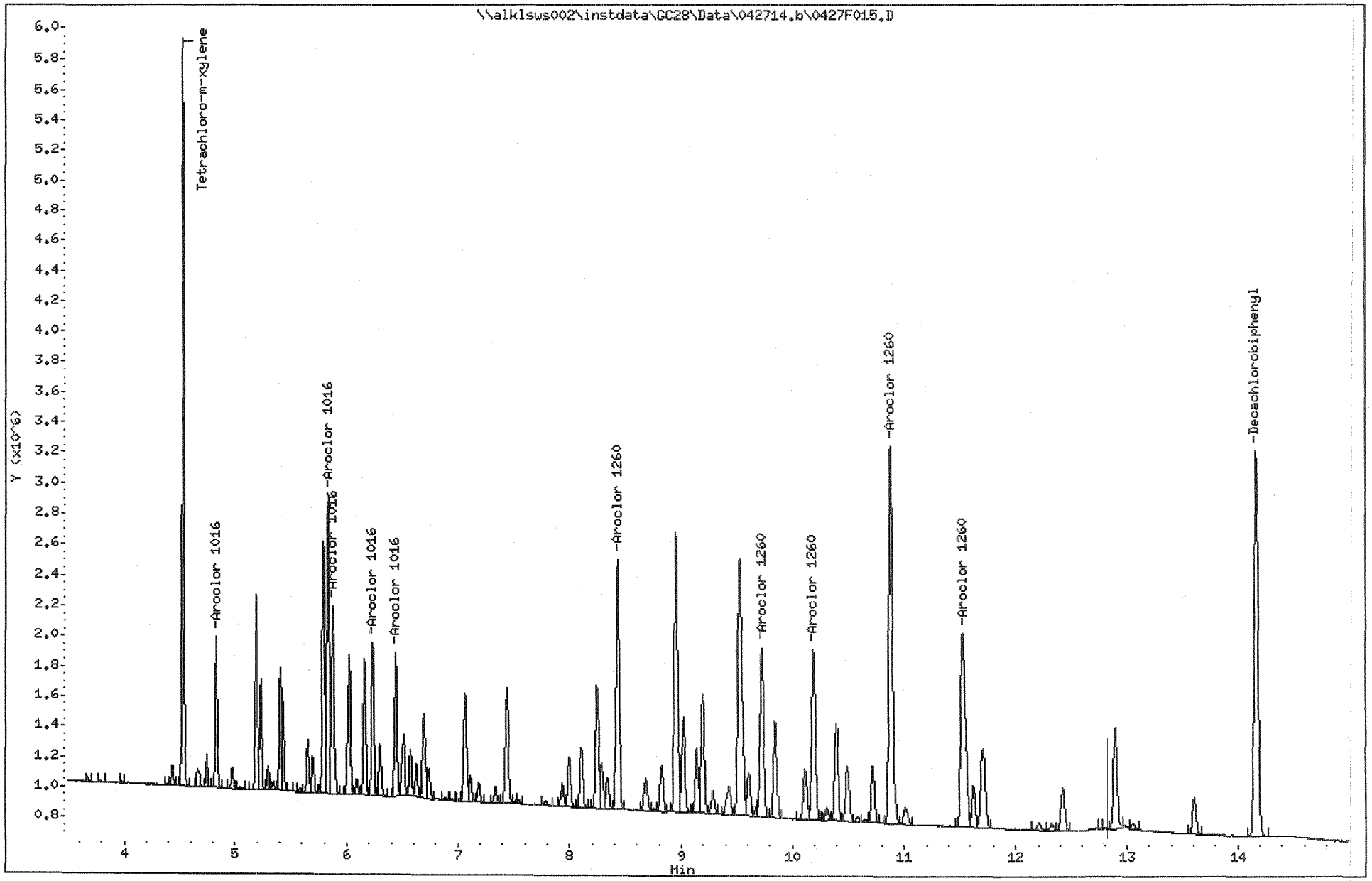
Data File: \\alklsws002\instdata\GC28\Data\042714.b\0427F015.D
Date : 28-APR-2014 06:27
Client ID:
Sample Info: 1660 @ 50-500ppb PCB6-38M

Instrument: GC28.i

Operator: JMSmith

Column phase: DB-XLB

Column diameter: 0.32

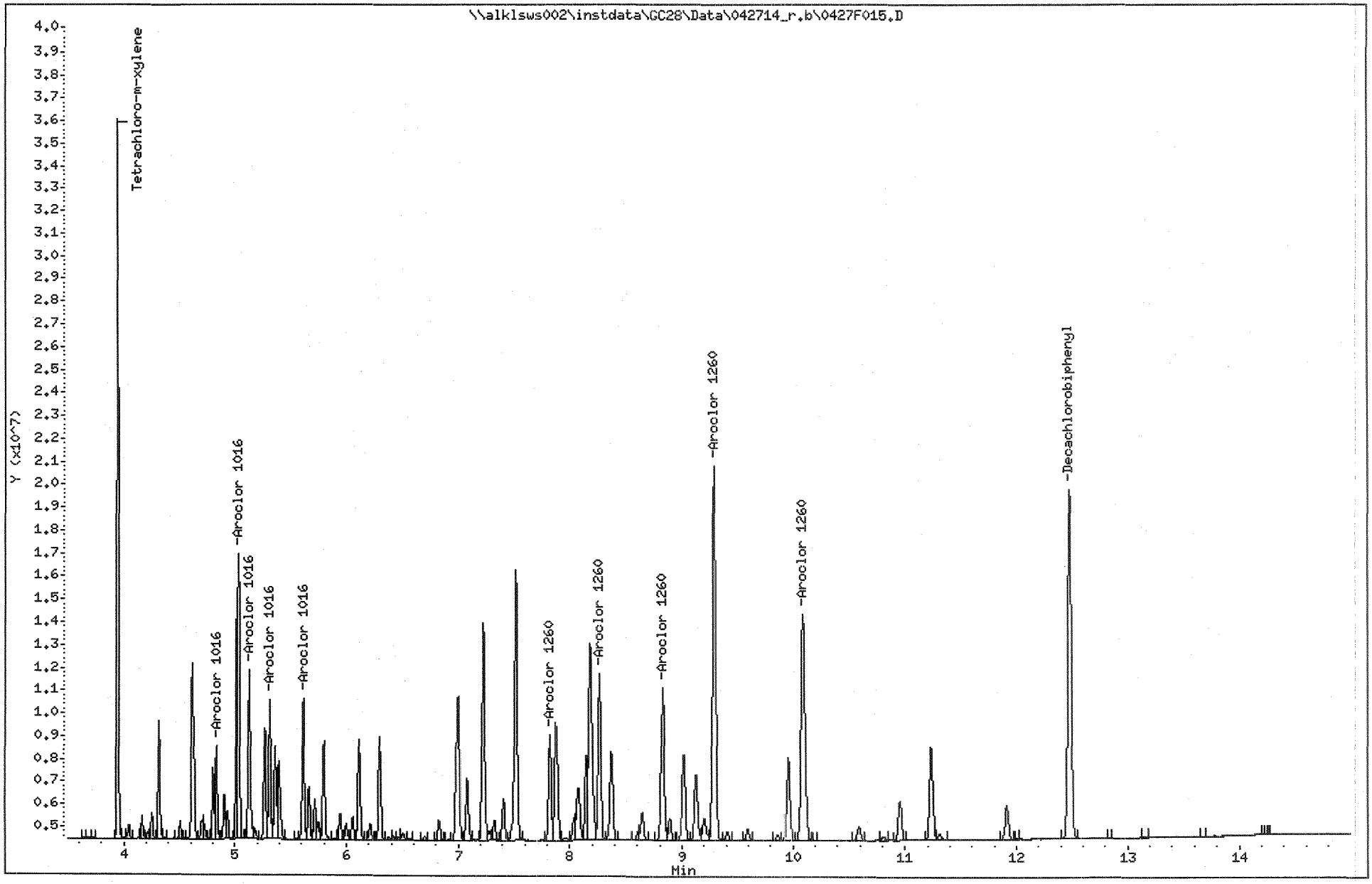


Data File: \\alklsws002\instdata\GC28\Data\042714_r.b\0427F015.D
Date : 28-APR-2014 06:27
Client ID:
Sample Info: 1660 @ 50-500ppb PCB6-38M

Column phase: DB-35MS

Instrument: GC28.i

Operator: JMSmith
Column diameter: 0.32



Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC28\DATA\042714.B\0427F016.D
Lab ID: KWG1403893-4
RunType: IB
Matrix: NOT APPLICABLE

Date Acquired: 04/28/2014 06:50
Date Quantitated: 04/30/2014 09:19
Batch ID: KWG1403893
Analysis Method: 8082A
MethodJoinID: MJ1038

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Primary Review: SS 4/30/14

Secondary Review: [illegible]

Exception Report

Data File:	\\ALKLSWS002\INSTDATA\GC28\DATA\042714_R.B\0427F016.D	**Date Acquired:**	04/28/2014 06:50
Lab ID:	KWG1403893-4	**Date Quantitated:**	04/30/2014 09:20
RunType:	IB	**Batch ID:**	KWG1403893
Matrix:	NOT APPLICABLE	**Analysis Method:**	8082A
		MethodJoinID:	MJ1038

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Primary Review: 4/30/14

Secondary Review:

Quantitation Report

Data File #1:	J:\GC28\DATA\042714.B\0427F016.D			**Instrument:**	GC28.i
Data File #2:	\\alklsws002\instdata\GC28\Data\042714_r.b\0427F016.D			**Vial:**	86
Acqu Date:	04/28/2014 06:50	**Quant Date:**	04/30/2014 09:19	**Dilution:**	1.0
Run Type:	IB			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1403893-4				
Signal #1:	DB-XLB	**Signal #2:**	DB-35MS		

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLE
Prod Code:	8082A PCB	**Collect Date:**		**Receive Date:**	04/30/2014

Analysis Lot:	KWG1403893	**Prep Lot:**		**Report Group:**
Analysis Method:	8082A	**Prep Method:**		
Prep Ref:		**Prep Date:**		

Quant Method:	\\ALKLSWS002\INSTDATA\GC28\DATA\042714.B\042414_F.M	**Calibration ID:**	CAL13284
Title:			
MB Ref:		**Method ID:**	MJ731
		Quant based on Method	

Surrogate Compounds

Parameter Name	RT #1	RT #2	Resp #1	Respe #2	ng/mL #1	ng/mL #2			Rpt
Tetrachloro-m-xylene	0.00	3.94	0	32559		0.0540			NA
			%Recovery =		NA	NA	Limits =	30-125	
Decachlorobiphenyl	0.00	12.49	0	134164		0.1890			NA
			%Recovery =		NA	NA	Limits =	43-148	

Target Compounds

Final Conc. Units:

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	mg/Kg #1	mg/Kg #2	Rpt
Aroclor 1016			0	0	0.0000	0.0000			
Aroclor 1016 {1}			0	0	0.0000	0.0000			
Aroclor 1016 {2}			0	0	0.0000	0.0000			
Aroclor 1016 {3}			0	0	0.0000	0.0000			
Aroclor 1016 {4}			0	0	0.0000	0.0000			
Aroclor 1016 {5}			0	0	0.0000	0.0000			
Aroclor 1221			0	0	0.0000	0.0000			
Aroclor 1221 {1}			0	0	0.0000	0.0000			
Aroclor 1221 {2}			0	0	0.0000	0.0000			
Aroclor 1221 {3}			0	0	0.0000	0.0000			
Aroclor 1232			0	0	0.0000	5.70			
Aroclor 1232 {1}		4.34	0	73650	0.0000	5.04			
Aroclor 1232 {2}		4.82	0	43056	0.0000	9.21			
Aroclor 1232 {3}		5.06	0	27228	0.0000	2.85			
Aroclor 1232 {4}			0	0	0.0000	0.0000			
Aroclor 1232 {5}			0	0	0.0000	0.0000			
Aroclor 1242			0	0	0.0000	4.65			

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File #1:	J:\GC28\DATA\042714.B\0427F016.D			**Instrument:**	GC28.i
Data File #2:	\\alklsws002\instdata\GC28\Data\042714_r.b\0427F016.D			**Vial:**	86
Acqu Date:	04/28/2014 06:50	**Quant Date:**	04/30/2014 09:19	**Dilution:**	1.0
Run Type:	IB			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1403893-4				
Signal #1:	DB-XLB	**Signal #2:**	DB-35MS		

Target Compounds **Final Conc. Units:**

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	mg/Kg #1	mg/Kg #2	Rpt
Aroclor 1242 {1}		4.34	0	73650	0.0000	7.39			
Aroclor 1242 {2}		4.82	0	43056	0.0000	5.48			
Aroclor 1242 {3}		5.06	0	27228	0.0000	1.08			
Aroclor 1242 {4}			0	0	0.0000	0.0000			
Aroclor 1242 {5}			0	0	0.0000	0.0000			
Aroclor 1248			0	0	0.0000	4.76			
Aroclor 1248 {1}		5.06	0	27228	0.0000	1.93			
Aroclor 1248 {2}			0	0	0.0000	0.0000			
Aroclor 1248 {3}		5.79	0	108480	0.0000	5.80			
Aroclor 1248 {4}			0	0	0.0000	0.0000			
Aroclor 1248 {5}		6.48	0	84966	0.0000	6.56			
Aroclor 1254			0	0	0.0000	0.0000			
Aroclor 1254 {1}			0	0	0.0000	0.0000			
Aroclor 1254 {2}			0	0	0.0000	0.0000			
Aroclor 1254 {3}			0	0	0.0000	0.0000			
Aroclor 1254 {4}			0	0	0.0000	0.0000			
Aroclor 1254 {5}			0	0	0.0000	0.0000			
Aroclors, Total			0	169514	0.0000	15.11			
Aroclor 1260			0	0	0.0000	0.0000			
Aroclor 1260 {1}			0	0	0.0000	0.0000			
Aroclor 1260 {2}			0	0	0.0000	0.0000			
Aroclor 1260 {3}			0	0	0.0000	0.0000			
Aroclor 1260 {4}			0	0	0.0000	0.0000			
Aroclor 1260 {5}			0	0	0.0000	0.0000			
Aroclor 1262			0	0	0.0000	0.0000			
Aroclor 1262 {1}			0	0	0.0000	0.0000			
Aroclor 1262 {2}			0	0	0.0000	0.0000			
Aroclor 1262 {3}			0	0	0.0000	0.0000			
Aroclor 1262 {4}			0	0	0.0000	0.0000			
Aroclor 1262 {5}			0	0	0.0000	0.0000			
Aroclor 1268			0	0	0.0000	0.0000			
Aroclor 1268 {1}			0	0	0.0000	0.0000			
Aroclor 1268 {2}			0	0	0.0000	0.0000			
Aroclor 1268 {3}			0	0	0.0000	0.0000			
Aroclor 1268 {4}			0	0	0.0000	0.0000			

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File: \\alklsws002\instdata\GC28\Data\042714.b\0427F016.D
Report Date: 30-Apr-2014 09:19

CAS

Sample #1 : \\alklsws002\instdata\GC28\Data\042714.b\0427F016.D
Sample #2 : \\alklsws002\instdata\GC28\Data\042714_r.b\0427F016.D
Inj Date : 28-APR-2014 06:50
Sample Info: IB
Misc Info :
Cal Date : 28-APR-2014 22:14
Operator : JMSmith
Inst ID : GC28.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC28\Data\042714.b\042414_f.m
Method #2 : \\alklsws002\instdata\GC28\Data\042714_r.b\042414_r.m
Sub List #1 : ALL.SUB
Sub List #2 : ALL.SUB
Col #1 Phase : DB-XLB
Col #2 Phase : DB-35MS

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Tetrachloro-m-xylene	0.000	3.936	0	32559	0.000	0.0539		
Aroclor 1232	0.000	4.336	0	73650	0.000	5.04		
	0.000	4.816	0	43056	0.000	9.21		
	0.000	5.059	0	27228	0.000	2.85		
	0.000	0.000	0	0	0.000	0.000		
	0.000	0.000	0	0	0.000	0.000		
		Average of Peak Amounts =			0.000	5.70		
Aroclor 1242	0.000	4.336	0	73650	0.000	7.39		
	0.000	4.816	0	43056	0.000	5.48		
	0.000	5.059	0	27228	0.000	1.08		
	0.000	0.000	0	0	0.000	0.000		
	0.000	0.000	0	0	0.000	0.000		
		Average of Peak Amounts =			0.000	4.65		
Aroclor 1248	0.000	5.059	0	27228	0.000	1.93		
	0.000	0.000	0	0	0.000	0.000		
	0.000	5.789	0	108480	0.000	5.80		
	0.000	0.000	0	0	0.000	0.000		
	0.000	6.476	0	84966	0.000	6.56		
		Average of Peak Amounts =			0.000	4.76		
Decachlorobiphenyl	0.000	12.489	0	134164	0.000	0.189		
Aroclors, Total	0.000	0.000	0	169514	0.000	15.1		

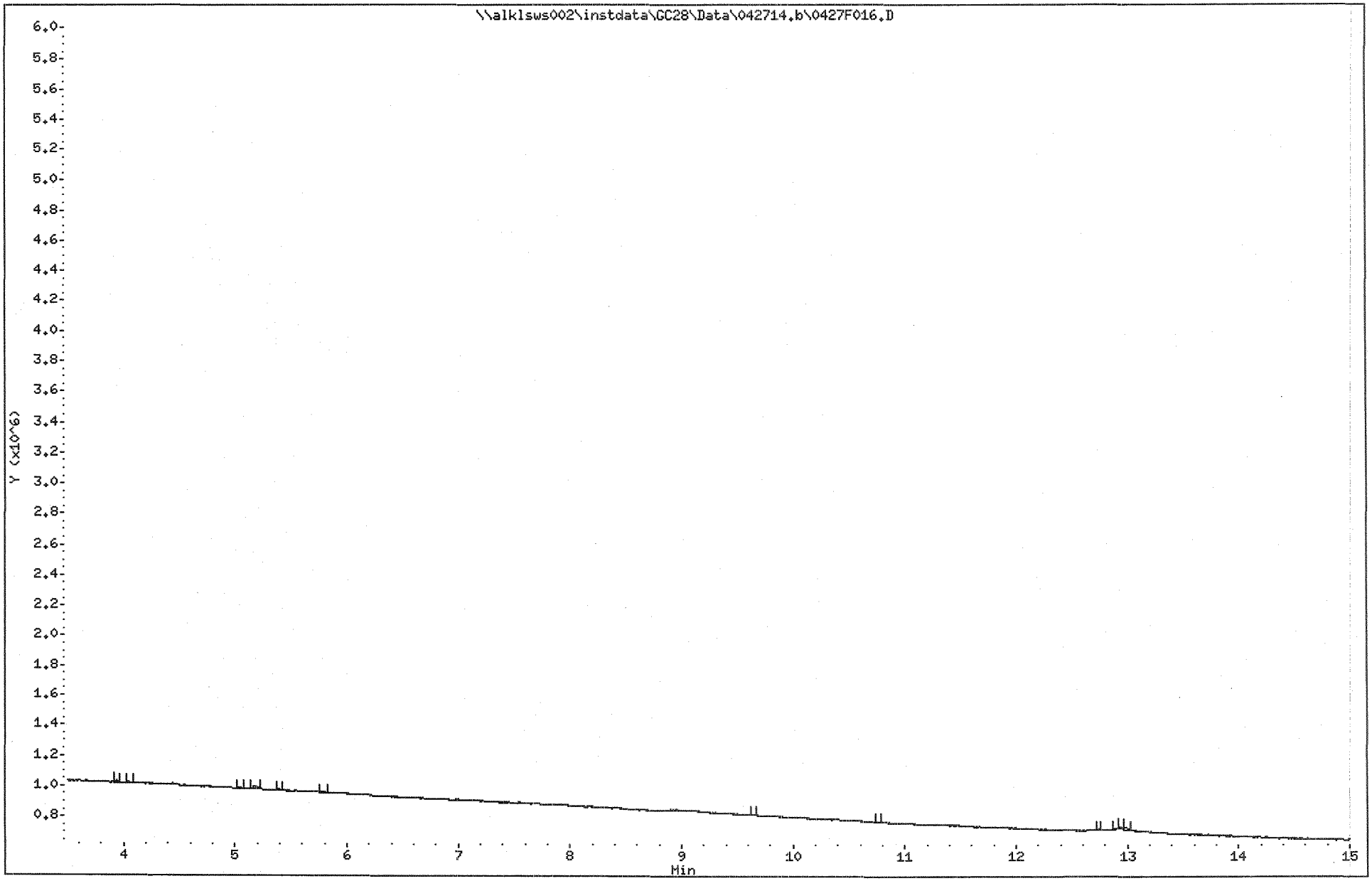
Data File: \\alklsws002\instdata\GC28\Data\042714.b\0427F016.D
Date : 28-APR-2014 06:50
Client ID:
Sample Info: IB

Instrument: GC28.i

Operator: JHSmith

Column phase: DB-XLB

Column diameter: 0.32



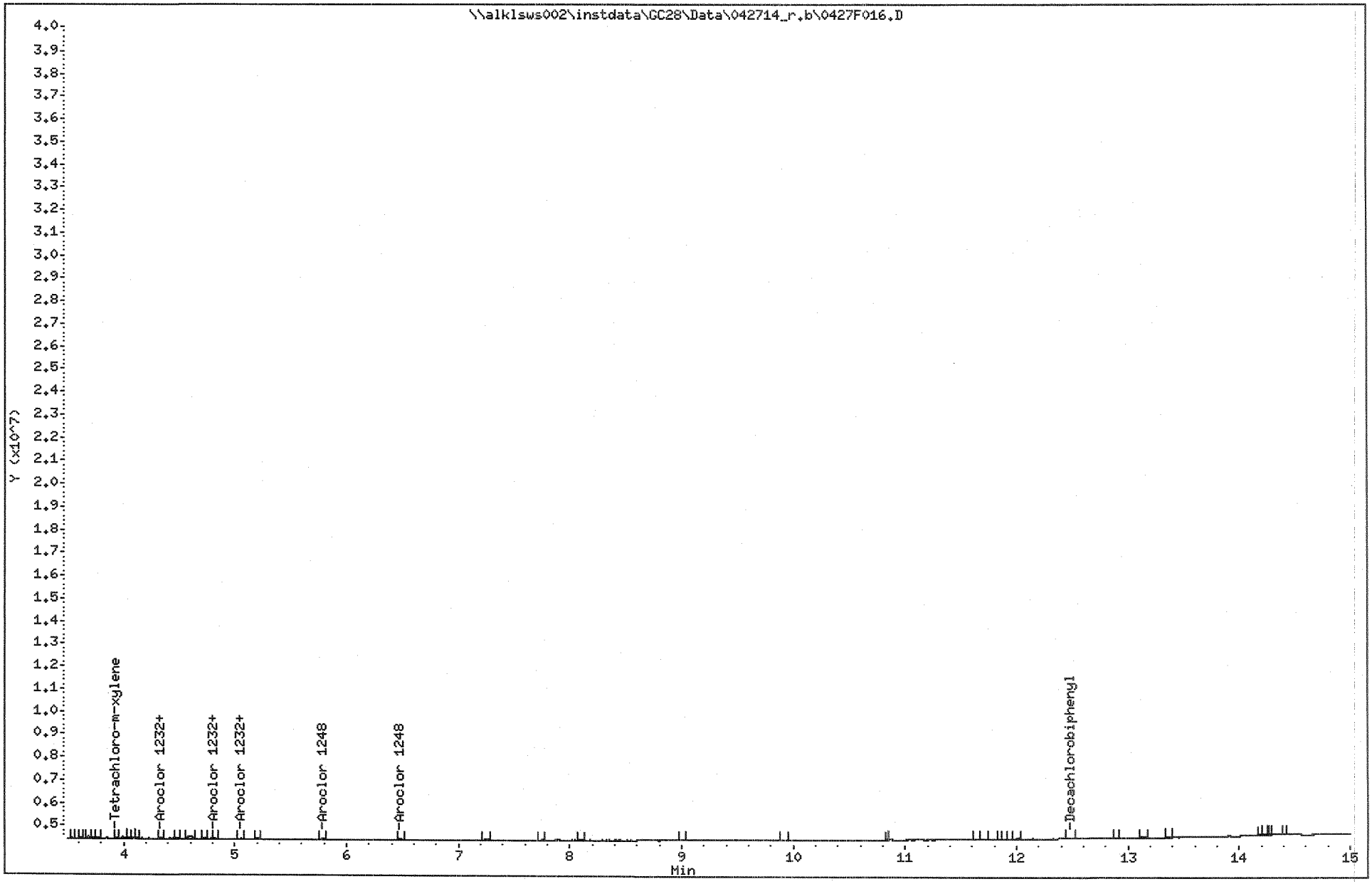
Data File: \\alklsws002\instdata\GC28\Data\042714_r.b\0427F016.D
Date : 28-APR-2014 06:50
Client ID:
Sample Info: IB

Instrument: GC28.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32



Attachment 4 – FYR Site Inspection Checklist

Please note that "O&M" is referred to throughout this checklist. At sites where Long-Term Response Actions are in progress, O&M activities may be referred to as "system operations" since these sites are not considered to be in the O&M phase while being remediated under the Superfund program.

Five-Year Review Site Inspection Checklist (Template)

(Working document for site inspection. Information may be completed by hand and attached to the Five-Year Review report as supporting documentation of site status. "N/A" refers to "not applicable.")

I. SITE INFORMATION	
Site name: Missouri Electric Works	**Date of inspection:** March 25-27, 2014
Location and Region: Cape Girardeau, MO	**EPA ID:** MOD980965982
Agency, office, or company leading the five-year review: EPA Region 7	**Weather/temperature:** Cool, dry

Remedy Includes: (Check all that apply)

- Landfill cover/containment
- ✓ Access controls
- ✓ Institutional controls
- Groundwater pump and treatment
- Surface water collection and treatment
- ✓ Monitored natural attenuation
- Groundwater containment
- Vertical barrier walls
- Other OU-1 soil treatment remedy complete with no O+M requirement. OU-2 groundwater remedies not implemented yet. OU-3 needs RI/FS.

Attachments: Inspection team roster attached Site map attached

II. INTERVIEWS (Check all that apply)

1. **O&M site manager** n/a (Name) _____ (Title) _____ (Date) _____
   Interviewed at site at office by phone Phone no. _____
   Problems, suggestions; Report attached _____
   There are no O+M managers or staff.

2. **O&M staff** n/a (Name) _____ (Title) _____ (Date) _____
   Interviewed at site at office by phone Phone no. _____
   Problems, suggestions; Report attached _____

Inspectors: Greg Bach, EPA R7
Jeremy Wall, MDNR

3. **Local regulatory authorities and response agencies** (i.e., State and Tribal offices, emergency response office, police department, office of public health or environmental health, zoning office, recorder of deeds, or other city and county offices, etc.) Fill in all that apply.

Agency n/a
Contact _____ _____ _____ _____
Name Title Date Phone no.
Problems; suggestions; Report attached _____

Agency _____
Contact _____ _____ _____ _____
Name Title Date Phone no.
Problems; suggestions; Report attached _____

Agency _____
Contact _____ _____ _____ _____
Name Title Date Phone no.
Problems; suggestions; Report attached _____

Agency _____
Contact _____ _____ _____ _____
Name Title Date Phone no.
Problems; suggestions; Report attached _____

4. **Other interviews** (optional) Report attached.

n/a

III. ON-SITE DOCUMENTS & RECORDS VERIFIED (Check all that apply)

1.	**O&M Documents**			
	O&M manual n/a	Readily available	Up to date	N/A
	As-built drawings	Readily available	Up to date	N/A
	Maintenance logs	Readily available	Up to date	N/A
	Remarks No on-site documents.			
2.	**Site-Specific Health and Safety Plan** n/a	Readily available	Up to date	N/A
	Contingency plan/emergency response plan	Readily available	Up to date	N/A
	Remarks			
3.	**O&M and OSHA Training Records** n/a	Readily available	Up to date	N/A
	Remarks			
4.	**Permits and Service Agreements** n/a			
	Air discharge permit	Readily available	Up to date	N/A
	Effluent discharge	Readily available	Up to date	N/A
	Waste disposal, POTW	Readily available	Up to date	N/A
	Other permits	Readily available	Up to date	N/A
	Remarks			
5.	**Gas Generation Records** n/a	Readily available	Up to date	N/A
	Remarks			
6.	**Settlement Monument Records** n/a	Readily available	Up to date	N/A
	Remarks			
7.	**Groundwater Monitoring Records** n/a	Readily available	Up to date	N/A
	Remarks			
8.	**Leachate Extraction Records** n/a	Readily available	Up to date	N/A
	Remarks			
9.	**Discharge Compliance Records** n/a			
	Air	Readily available	Up to date	N/A
	Water (effluent)	Readily available	Up to date	N/A
	Remarks			
10.	**Daily Access/Security Logs** n/a	Readily available	Up to date	N/A
	Remarks			

IV. O&M COSTS

1. **O&M Organization**
   State in-house — Contractor for State
   PRP in-house — Contractor for PRP
   Federal Facility in-house — Contractor for Federal Facility
   Other No O+M is ongoing at this time.

2. **O&M Cost Records** n/a
   Readily available — Up to date
   Funding mechanism/agreement in place
   Original O&M cost estimate _____ Breakdown attached

   Total annual cost by year for review period if available

   From _____ To _____ _____ Breakdown attached
   Date — Date — Total cost
   From _____ To _____ _____ Breakdown attached
   Date — Date — Total cost
   From _____ To _____ _____ Breakdown attached
   Date — Date — Total cost
   From _____ To _____ _____ Breakdown attached
   Date — Date — Total cost
   From _____ To _____ _____ Breakdown attached
   Date — Date — Total cost

3. **Unanticipated or Unusually High O&M Costs During Review Period**
   Describe costs and reasons: n/a

V. ACCESS AND INSTITUTIONAL CONTROLS ✓Applicable N/A

A. Fencing

1. **Fencing damaged** NO Location shown on site map Gates secured N/A
   Remarks _____

B. Other Access Restrictions

1. **Signs and other security measures** n/a Location shown on site map N/A
   Remarks _____

C. Institutional Controls (ICs)

1. **Implementation and enforcement**

Site conditions imply ICs not properly implemented — Yes (No) N/A
Site conditions imply ICs not being fully enforced — Yes (No) N/A

Type of monitoring (e.g., self-reporting, drive by) site inspection
Frequency variable, whenever on-site for other activities
Responsible party/agency EPA
Contact Dan Gravatt (Name) RPM (Title) May '14 (Date) 913 551 7324 (Phone no.)

Reporting is up-to-date — Yes No (N/A)
Reports are verified by the lead agency — Yes No (N/A)

Specific requirements in deed or decision documents have been met — Yes No (N/A)
Violations have been reported — Yes No (N/A)
Other problems or suggestions: Report attached

2. **Adequacy** ✓ ICs are adequate ICs are inadequate N/A

Remarks Environmental Covenant on site property. Other city and/or Stat proprietary ICs should be enacted in the future to prevent groundwater use in the area.

D. General

1. **Vandalism/trespassing** Location shown on site map ✓ No vandalism evident

Remarks

2. **Land use changes on site** N/A

Remarks New site owner has renovated old site building, built a new self-storage facility, and regraded much of the site.

3. **Land use changes off site** (N/A)

Remarks

VI. GENERAL SITE CONDITIONS

A. Roads (Applicable) N/A

1. ✓ **Roads damaged** Location shown on site map Roads adequate N/A

Remarks Wilson Road, a city road that bisects the site, is in poor repair.

B. Other Site Conditions

Remarks n/a

VII. LANDFILL COVERS Applicable (N/A)

A. Landfill Surface

1. **Settlement** (Low spots) Location shown on site map Settlement not evident
   Areal extent_____ Depth_____
   Remarks_____

2. **Cracks** Location shown on site map Cracking not evident
   Lengths_____ Widths_____ Depths_____
   Remarks_____

3. **Erosion** Location shown on site map Erosion not evident
   Areal extent_____ Depth_____
   Remarks_____

4. **Holes** Location shown on site map Holes not evident
   Areal extent_____ Depth_____
   Remarks_____

5. **Vegetative Cover** Grass Cover properly established No signs of stress
   Trees/Shrubs (indicate size and locations on a diagram)
   Remarks_____

6. **Alternative Cover (armored rock, concrete, etc.)** N/A
   Remarks_____

7. **Bulges** Location shown on site map Bulges not evident
   Areal extent_____ Height_____
   Remarks_____

8. **Wet Areas/Water Damage** Wet areas/water damage not evident
   - Wet areas — Location shown on site map — Areal extent_____
   - Ponding — Location shown on site map — Areal extent_____
   - Seeps — Location shown on site map — Areal extent_____
   - Soft subgrade — Location shown on site map — Areal extent_____

   Remarks_____

9. **Slope Instability** Slides Location shown on site map No evidence of slope instability
   Areal extent_____
   Remarks_____

B. Benches Applicable N/A
(Horizontally constructed mounds of earth placed across a steep landfill side slope to interrupt the slope in order to slow down the velocity of surface runoff and intercept and convey the runoff to a lined channel.)

1. **Flows Bypass Bench** Location shown on site map N/A or okay
   Remarks_____

2. **Bench Breached** Location shown on site map N/A or okay
   Remarks_____

3. **Bench Overtopped** Location shown on site map N/A or okay
   Remarks_____

C. Letdown Channels Applicable N/A
(Channel lined with erosion control mats, riprap, grout bags, or gabions that descend down the steep side slope of the cover and will allow the runoff water collected by the benches to move off of the landfill cover without creating erosion gullies.)

1. **Settlement** Location shown on site map No evidence of settlement
   Areal extent_____ Depth_____
   Remarks_____

2. **Material Degradation** Location shown on site map No evidence of degradation
   Material type_____ Areal extent_____
   Remarks_____

3. **Erosion** Location shown on site map No evidence of erosion
   Areal extent_____ Depth_____
   Remarks_____

4. **Undercutting** Location shown on site map No evidence of undercutting
Areal extent_____ Depth_____
Remarks_____

5. **Obstructions** Type_____ No obstructions
Location shown on site map Areal extent_____
Size_____
Remarks_____

6. **Excessive Vegetative Growth** Type_____
No evidence of excessive growth
Vegetation in channels does not obstruct flow
Location shown on site map Areal extent_____
Remarks_____

D. Cover Penetrations Applicable N/A

1. **Gas Vents** Active Passive
Properly secured/locked Functioning Routinely sampled Good condition
Evidence of leakage at penetration Needs Maintenance
N/A
Remarks_____

2. **Gas Monitoring Probes**
Properly secured/locked Functioning Routinely sampled Good condition
Evidence of leakage at penetration Needs Maintenance N/A
Remarks_____

3. **Monitoring Wells** (within surface area of landfill)
Properly secured/locked Functioning Routinely sampled Good condition
Evidence of leakage at penetration Needs Maintenance N/A
Remarks_____

4. **Leachate Extraction Wells**
Properly secured/locked Functioning Routinely sampled Good condition
Evidence of leakage at penetration Needs Maintenance N/A
Remarks_____

5. **Settlement Monuments** Located Routinely surveyed N/A
Remarks_____

E. Gas Collection and Treatment	Applicable	N/A
1. **Gas Treatment Facilities** Flaring / Thermal destruction / Collection for reuse Good condition / Needs Maintenance Remarks_____		
2. **Gas Collection Wells, Manifolds and Piping** Good condition / Needs Maintenance Remarks_____		
3. **Gas Monitoring Facilities** (*e.g.*, gas monitoring of adjacent homes or buildings) Good condition / Needs Maintenance / N/A Remarks_____		
F. Cover Drainage Layer	Applicable	N/A
1. **Outlet Pipes Inspected** Remarks_____	Functioning	N/A
2. **Outlet Rock Inspected** Remarks_____	Functioning	N/A
G. Detention/Sedimentation Ponds	Applicable	N/A
1. **Siltation** Areal extent_____ Depth_____ N/A Siltation not evident Remarks_____		
2. **Erosion** Areal extent_____ Depth_____ Erosion not evident Remarks_____		
3. **Outlet Works** Remarks_____	Functioning	N/A
4. **Dam** Remarks_____	Functioning	N/A

H. Retaining Walls Applicable N/A

1. **Deformations** Location shown on site map Deformation not evident
   Horizontal displacement_____ Vertical displacement_____
   Rotational displacement_____
   Remarks_____

2. **Degradation** Location shown on site map Degradation not evident
   Remarks_____

I. Perimeter Ditches/Off-Site Discharge Applicable N/A

1. **Siltation** Location shown on site map Siltation not evident
   Areal extent_____ Depth_____
   Remarks_____

2. **Vegetative Growth** Location shown on site map N/A
   Vegetation does not impede flow
   Areal extent_____ Type_____
   Remarks_____

3. **Erosion** Location shown on site map Erosion not evident
   Areal extent_____ Depth_____
   Remarks_____

4. **Discharge Structure** Functioning N/A
   Remarks_____

VIII. VERTICAL BARRIER WALLS Applicable (N/A)

1. **Settlement** Location shown on site map Settlement not evident
   Areal extent_____ Depth_____
   Remarks_____

2. **Performance Monitoring** Type of monitoring_____
   Performance not monitored
   Frequency_____ Evidence of breaching
   Head differential_____
   Remarks_____

IX. GROUNDWATER/SURFACE WATER REMEDIES (Applicable) N/A

A. Groundwater Extraction Wells, Pumps, and Pipelines — Applicable (N/A)

1. **Pumps, Wellhead Plumbing, and Electrical**
   Good condition All required wells properly operating Needs Maintenance N/A
   Remarks_____

2. **Extraction System Pipelines, Valves, Valve Boxes, and Other Appurtenances**
   Good condition Needs Maintenance
   Remarks_____

3. **Spare Parts and Equipment**
   Readily available Good condition Requires upgrade Needs to be provided
   Remarks_____

B. Surface Water Collection Structures, Pumps, and Pipelines — Applicable (N/A)

1. **Collection Structures, Pumps, and Electrical**
   Good condition Needs Maintenance
   Remarks_____

2. **Surface Water Collection System Pipelines, Valves, Valve Boxes, and Other Appurtenances**
   Good condition Needs Maintenance
   Remarks_____

3. **Spare Parts and Equipment**
   Readily available Good condition Requires upgrade Needs to be provided
   Remarks_____

C. Treatment System Applicable (N/A)

1. **Treatment Train** (Check components that apply)
   Metals removal Oil/water separation Bioremediation
   Air stripping Carbon adsorbers
   Filters_____
   Additive (*e.g.*, chelation agent, flocculent)_____
   Others_____
   Good condition Needs Maintenance
   Sampling ports properly marked and functional
   Sampling/maintenance log displayed and up to date
   Equipment properly identified
   Quantity of groundwater treated annually_____
   Quantity of surface water treated annually_____
   Remarks_____

2. **Electrical Enclosures and Panels** (properly rated and functional)
   N/A Good condition Needs Maintenance
   Remarks_____

3. **Tanks, Vaults, Storage Vessels**
   N/A Good condition Proper secondary containment Needs Maintenance
   Remarks_____

4. **Discharge Structure and Appurtenances**
   N/A Good condition Needs Maintenance
   Remarks_____

5. **Treatment Building(s)**
   N/A Good condition (esp. roof and doorways) Needs repair
   Chemicals and equipment properly stored
   Remarks_____

6. **Monitoring Wells** (pump and treatment remedy)
   Properly secured/locked Functioning Routinely sampled Good condition
   All required wells located Needs Maintenance N/A
   Remarks_____

D. Monitoring Data

1. Monitoring Data No routine sampling in past FYR cycle.
   Is routinely submitted on time Is of acceptable quality

2. Monitoring data suggests:
   ✓ Groundwater plume is effectively contained ✓ Contaminant concentrations are declining (alluvial aquifer)

D. Monitored Natural Attenuation

1. **Monitoring Wells** (natural attenuation remedy)

✓ Properly secured/locked ✓ Functioning Routinely sampled Good condition
✓ All required wells located ✓ Needs Maintenance N/A

Remarks Well casings need re-painting and relabeling, and new locks that function better.

X. OTHER REMEDIES

If there are remedies applied at the site which are not covered above, attach an inspection sheet describing the physical nature and condition of any facility associated with the remedy. An example would be soil vapor extraction.

XI. OVERALL OBSERVATIONS

A. Implementation of the Remedy

Describe issues and observations relating to whether the remedy is effective and functioning as designed. Begin with a brief statement of what the remedy is to accomplish (i.e., to contain contaminant plume, minimize infiltration and gas emission, etc.).

The OU1 thermal treatment of soil for PCBs was completed successfully with no O+M activities required.

The OU-2 groundwater remedy for the two aquifers was selected but has not yet been implemented due to ongoing negotiations with the PRPs (TI waiver for bedrock aquifer, MNA for alluvial aquifer)

OU-3 has not had an RI/FS so no remedy has been selected.

B. Adequacy of O&M

Describe issues and observations related to the implementation and scope of O&M procedures. In particular, discuss their relationship to the current and long-term protectiveness of the remedy.

No O+M is ongoing at this time. As noted above, some monitoring well maintenance could be performed, but usability of the wells is not compromised.

C.	**Early Indicators of Potential Remedy Problems**
	Describe issues and observations such as unexpected changes in the cost or scope of O&M or a high frequency of unscheduled repairs, that suggest that the protectiveness of the remedy may be compromised in the future. None noted.
D.	**Opportunities for Optimization**
	Describe possible opportunities for optimization in monitoring tasks or the operation of the remedy. n/a

Attachment 5 – Environmental Services Division Technical Assessment Memorandum

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 7
11201 Renner Boulevard
Lenexa, Kansas 66219

APR - 3 2014

MEMORANDUM

SUBJECT: Third Five-Year Review Technical Assessment
Missouri Electric Works Site
Cape Girardeau, Missouri

FROM: Greg McCabe for
Human Health Risk Assessor
ENSV/EAMB

Venessa Madden
Ecological Risk Assessor
ENSV/EAMB

Dan Nicoski
Hydrogeologist
ENSV/EAMB

TO: Dan Gravatt
SUPR/MOKS

As requested, we have conducted a technical assessment in support of the third five-year review of the Missouri Electric Works site, located in Cape Girardeau, Missouri. Our evaluation is limited to providing input on human health risk assessment, ecological risk assessment, and groundwater issues. More specifically, we focused on answering Questions A, B, and C from the U.S. Environmental Protection Agency's "Comprehensive Five-Year Review Guidance" (EPA, 2001).

It is our understanding that little progress toward remedy implementation has taken place since the last five-year review. According to an email received from you on September 16, 2013, aside from four quarters of groundwater sampling in a limited number of wells, little action has taken place at the site since the last FYR. The remedy selected in the 2005 Record of Decision has not yet been implemented (EPA, 2005). On April 21, 2009, we provided human health risk assessment comments on the second FYR (EPA, 2009). Because those comments have not yet been addressed, we consider them to remain valid, and applicable to the third FYR. Based on our review of the draft third FYR report, we also have the following comments to offer. Following our comments on the draft report are our answers to Questions A, B, and C from the EPA's Comprehensive Five-Year Review Guidance (EPA, 2001). Most, but not all, of the text answering Questions A, B, and C was included in our 2009 evaluation of the second FYR.

If you need additional assistance or have any questions regarding our assessment, please feel free to contact Greg McCabe at X7709, Venessa Madden at X7794, or Dan Nicoski at X7230.

Printed on Recycled Paper

Human Health Risk Assessor Comments

General Comment

Very little groundwater sampling has apparently been done at the site since the completion of the last five-year review. The four quarters of groundwater sampling data that were gathered in 2012 and 2013 is limited to seven alluvial wells located between the facility and the wetland. While contamination continues to be found in these wells, the contaminant concentrations are relatively low compared to past on-site groundwater sampling data. The number and location of wells sampled makes this data of limited usefulness for human health risk assessment purposes.

Specific Comments

1. Page 1, Title. The title is for the first FYR report (EPA, 2004). This is actually the third five-year review.

2. Page 2, Section 1. The first paragraph says this is the second FYR report. Again, this is actually the third five-year review.

3. At what should be page 4, the draft report format changes to landscape, and the pagination disappears, making the report difficult to read.

4. Section III, Background. There were no figures included with our copy of the draft report.

5. Section III. The table on the last page of this section includes bis(2-chloroethoxy)methane as one of the compounds with no toxicity data. In fact, toxicity values for this compound can be found in the EPA's Regional Screening Table. This table can be found online at: http://www.epa.gov/reg3hwmd/risk/human/rb-concentration_table/index.htm.

6. Section IV. The text on the last page of this section implies that no inspection of the cap has taken place since before the last FYR, at which time several erosional features were identified. Has the cap been inspected since then to insure that it remains adequately protective?

7. Section VI. The text indicates that the last inspection of the site by the EPA was February 11, 2009. Has a more recent inspection been conducted in support of the third FYR?

8. Section VI. Much of the draft third FYR report has been taken word for word from the second FYR report. That is acceptable, as long as conditions at the site have not changed, and repeating that text makes sense. However, in some cases, this is not appropriate. For example, the text of the draft report, under the paragraph entitled "MEW Property", discusses two nesting hawks that were present during the 2009 inspection. These birds were said to be "active and quite vocal". This same text appears word for word in the second FYR report. The third FYR report should be carefully edited to insure that it reflects current conditions at the site, and is not simply a repetition of text from the second FYR report.

9. A technical impracticability waiver granted for the site acknowledges that any attempt at groundwater cleanup in the fractured bedrock will not result in compliance with ARARs. Rather, exposure to contaminated groundwater will be prevented by the use of wellhead treatment to remove COCs from the drinking water supply. In addition to meeting ARARs at the wellhead, the ROD identifies To Be Considered criteria, including contaminant toxicity factors. The EPA health-based screening levels

derived using these toxicity factors can be found in EPA's Regional Screening table at the web link given above. Several of the COCs found in Table 4 of the 2005 ROD do not have MCLs. Rather, those COCs in Table 4 of the ROD have target cleanup levels that are based on other non-regulatory criteria, such as reporting limits. In those instances, the EPA health-based screening levels should be considered target cleanup levels in order to ensure that the most recent toxicity factors have been utilized in any wellhead treatment system.

10. Section VII. The sections "Changes in Exposure Pathways" and "Technical Assessment Summary" both imply that no toxicity factors or standardized human health risk methodologies have changed since the completion of the risk assessment. Given that the human health risk assessment was completed in 2004, this statement is not accurate. Several toxicity factors for the COCs, and human health risk assessment methodologies, have changed over the years. However, none have changed so significantly as to impact remedy selection or the protectiveness of the remedy.

11. Section VIII. When comparing the second FYR report with the draft third FYR report, we noticed that Table 2 no longer includes maintenance of monitoring well locks and security fencing. A similar change has been made in several other locations in the draft report. Were these changes intentional? If so, who will be responsible for ensuring that the monitoring wells and security fencing remain adequate?

Technical Assessment

Question B – Are the exposure assumptions, toxicity data, cleanup levels, and remedial action objectives (RAOs) used at the time of the remedy selection still valid?
Changes in Standards and TBCs

- *Have there been changes to risk-based cleanup levels or standards identified as Applicable or Relevant and Appropriate Requirements (ARARs) in the Record of Decision (ROD) that call into question the protectiveness of the remedy?*

  Soil Operable Unit: We are not aware of any changes to risk-based cleanup levels or to standards identified as ARARs, which call into question the protectiveness of the remedy currently in place. The ROD of September 1990 (EPA, 1990), called for the excavation of all soils and sediments with PCB concentrations greater than 10 parts per million (ppm) to a depth of 4 feet, and soils below that depth with PCB concentrations greater than 100 ppm. Excavated soils were then to be incinerated on-site, and the ash and clean soil returned to the excavated areas as backfill. This remedy was later modified to add thermal desorption to the thermal treatment component of the remedy (EPA, 1995). Also, all sediments and soils contaminated with greater than 10 ppm were excavated, regardless of depth (France-Isetts, 2000).

  Groundwater Operable Unit: It is our understanding that ARARs were not identified for this operable unit. The September 1990, ROD (EPA, 1990) identified a pump and treat system as the selected groundwater remedy. However, subsequent investigation of site geology determined that this remedy could not be implemented effectively due to the nature of the fractured bedrock aquifer (Komex, 2005a, 2005b). Consequently, a technical impracticability evaluation was completed (Komex, 2005c), with the result that a new groundwater alternative was selected. This alternative consists of institutional controls to prevent use of the contaminated groundwater, the installation of any well-head treatments system found to be necessary in order to treat a potable water supply, and long-term groundwater monitoring (EPA, 2005).

- *Are there newly promulgated standards that call into question the protectiveness of the remedy?* We are not aware of any newly promulgated standards that call into question the protectiveness of the remedy.

- *Have TBCs used in selecting cleanup levels at the site changed in way that could affect the protectiveness of the remedy?* The 2005 ROD identifies the need for consideration of TBCs in the alluvium, including contaminant toxicity factors found in the IRIS and the EPA risk assessment guidance. We would recommend that these TBCs also be considered during any wellhead treatment efforts undertaken relative to the groundwater in fractured bedrock. Consideration of current contaminant toxicity factors and the EPA risk assessment guidance could potentially increase the protectiveness of the remedy.

Changes in Exposure Pathways

- *Has land use or expected land use on or near the site changed (e.g., industrial to residential, commercial to residential)?* We are not aware of any land use changes or potential land use changes at the site. However, page iv of the draft FYR report questions whether new buildings were built on-site in 2011.

- *Have any human health or ecological routes of exposure or receptors changed or been newly identified (e.g., dermal contact where none previously existed, new populations or species identified on site or near the site) that could affect the protectiveness of the remedy?* We are not aware of any new human health routes of exposure.

- *Are there newly identified contaminants or contaminant sources?* We are not aware of any newly identified contaminants or contaminant sources.

- *Are there unanticipated toxic byproducts of the remedy not previously addressed by the decision documents (e.g., byproducts not evaluated at the time of remedy selection)?* We are not aware of any unanticipated toxic byproducts.

- *Have physical site conditions (e.g., changes in anticipated direction or rate of groundwater flow) or the understanding of these conditions (e.g., changes in anticipated direction or rate of groundwater flow) changed in a way that could affect the protectiveness of the remedy?* Following the completion of the soil remediation efforts, no PCBs are expected to be present in the surface soil, and no PCB concentrations greater than 10 ppm are expected to be located at depth on-site. Groundwater sampling data does indicate the continued presence of contamination at concentrations greater than the EPA's regulatory levels (Komex, 2005d). This is not unexpected since the Feasibility Study recognized that, due to the nature of site geology, "Residual human health risks from COC [contaminants of concern] in groundwater would remain for an unknown period and ICs would be required for an indefinite period to ensure protectiveness" (Komex, 2005b).

Changes in Toxicity and Other Contaminant Characteristics

- *Have toxicity factors for contaminants of concern at the site changed in a way that could affect the protectiveness of the remedy?* Many of the non-carcinogenic and carcinogenic toxicity factors identified in the RODs have been updated. In particular, the EPA has developed new screening levels for contaminants which may be carcinogenic by a mutagenic mode of action.

However, these new levels focus on a potential direct contact route of exposure to the contaminants by children. Given that site surface soils contain no PCBs, these new levels are not relevant. If, however, the Superfund program should decide to conduct additional soil sampling near the site, and if any of these mutagenic contaminants were to be identified, their concentrations would be compared with the new levels for mutagenic compounds.

- *Have other contaminant characteristics changed in a way that could affect protectiveness of the remedy?* We are not aware of any other changes to contaminant characteristics that could impact the protectiveness of the remedy.

Changes in Risk Assessment Methods

- *Have standardized risk assessment methodologies changed in a way that could affect the protectiveness of the remedy?* The EPA has revised several of its methodologies since the completion of the ROD, including its dermal risk assessment guidance, its process for estimating the health risks from inhalation of volatile organic compounds during household use of contaminated groundwater (i.e., bathing, showering, cooking, etc.), the use of the Integrated Exposure Uptake Biokinetic Model and the Adult Lead Methodology to evaluate potential health risks from lead, the means by which the EPA evaluates the vapor intrusion pathway, and the means by which it evaluates compounds which are carcinogenic by a mutagenic mode of action. The EPA has also changed the toxicity values for a number of compounds since the signing of the original ROD. However, these changes in methodology and toxicity values do not adversely affect the protectiveness of the remedy currently in place at the site.

Question C – Has any other information come to light that could call into question the protectiveness of the remedy?

Have newly found ecological risks been found? Any discussion of potential ecological risks associated with the site will come from the Region 7 ecological risk assessor. We would note here that the Expanded Ecological Risk Screening Evaluation contains the results of off-site soil and sediment sampling. It appears that there may be some off-site migration of PCBs that has taken place as a result of surface water runoff. The Superfund program may want to consider additional sampling in the ditches along Wilson Road as part of OU3 in order to determine if, in fact, significant off-site migration of PCBs has occurred.

- *Are there impacts from natural disasters (e.g., a 100-year flood)?* We are not aware of any natural disasters that have occurred on this site.

- *Has any other information come to light which could affect the protectiveness of the remedy?* We are not aware of any other information which has come to light which could affect the protectiveness of the remedy currently in place. However, as we noted earlier, very limited recent sampling data was available for our review. The most recent on-site groundwater data available for our review is from June 2005 (Komex, 2005d). The 2005 ROD stated that long-term monitoring would be one component of the selected remedy. We were unable to determine when or why the decision was made to discontinue groundwater monitoring in 2005.

  The 2005 ROD also stated that institutional controls were components of the ROD. We were unable to locate any documentation that institutional controls have been implemented since the signing of the 2005 ROD.

The 2005 ROD also included a provision for establishing wellhead protection in the event a drinking water supply well should become contaminated with site COCs. We were unable to locate any documentation which describes how such wells are to be monitored for contamination, nor were we able to locate any documentation which indicates whether any wellhead protection actions have or have not been necessary since the signing of the ROD.

Ecological Risk Assessor Comments

Technical Assessment

Question B – Are the exposure assumptions, toxicity data, cleanup levels, and remedial action objectives (RAOs) used at the time of the remedy selection still valid?

- *Have there been changes to risk-based cleanup levels or standards identified as Applicable or Relevant and Appropriate Requirements (ARARs) in the Record of Decision (ROD) that call into question the protectiveness of the remedy?* We are not aware of changes to ARARs or risk-based cleanup levels as they relate to the OU1 and OU2 of the site.

  However, chronic National Ambient Water Quality Criteria, as well as the State of Missouri's water quality criteria, should be considered ARARs for surface water in OU3. The chronic NAWQC for total PCBs in surface water is 0.014 μg/L. To date, there are no sediment or fish tissue ARARs that would impact a future ROD for OU3.

- *Are there newly promulgated standards that call into question the protectiveness of the remedy?* None that we are aware of.

Changes in Exposure Pathways

- *Has land use or expected land use on or near the site changed (e.g., industrial to residential, commercial to residential)?* Land use has not changed at the site and we are not aware of any potential future land use changes.

- *Have any human health or ecological routes of exposure or receptors changed or been newly identified (e.g., dermal contact where none previously existed, new populations or species identified on site or near the site) that could affect the protectiveness of the remedy?* Yes. However, the identified ecological exposures in the wetland area will be characterized as part of OU3.

- *Are there newly identified contaminants or contaminant sources?* The available data do not demonstrate new contaminants or contaminant sources.

- *Are there unanticipated toxic byproducts of the remedy not previously addressed by the decision documents (e.g., byproducts not evaluated at the time of remedy selection)?* We are not aware of any unanticipated toxic byproducts.

- *Have physical site conditions or the understanding of these conditions changed in a way that could affect the protectiveness of the remedy?* With regard to ecological risk, there have not been changes to site conditions that impact the protectiveness of the remedy for OU1 or OU2.

Site conditions in the wetland area will be characterized as part of the OU3 remedial investigation.

Changes in Toxicity and Other Contaminant Characteristics

- *Have toxicity factors for contaminants of concern at the site changed in a way that could affect the protectiveness of the remedy?* None that we are aware of.

- *Have other contaminant characteristics changed in a way that could affect protectiveness of the remedy?* We are not aware of any other changes to contaminant characteristics that could impact the protectiveness of the remedy.

Changes in Risk Assessment Methods

- *Have standardized risk assessment methodologies changed in a way that could affect the protectiveness of the remedy?* Standardized methods for ecological risk assessment can be found in *Ecological Risk Assessment Guidance for Superfund: Process for Designing and Conducting Ecological Risk Assessments - Interim Final* (EPA, 1997).

Question C – Has any other information come to light that could call into question the protectiveness of the remedy?

- *Have newly found ecological risks been found?* Ecological receptors at the site have been identified and will be addressed as part of OU3 through an ongoing remedial investigation. An inadequate and misleading screening level ecological risk assessment was performed for the wetland area and associated drainage by the responsible parties (ENVIRON, 2006). Based on the information provided in the draft SLERA, as well as the nature of the contaminants on site (PCBs), we recommend that a baseline ecological risk assessment be completed. This is identified as an issue in the draft FYR with a milestone date of September 2012. However, a BERA has not been received.

- *Are there impacts from natural disasters (e.g., a 100-year flood)?* None that we are aware of.

- *Has any other information come to light which could affect the protectiveness of the remedy?* Not that we are aware of.

Hydrogeologist Comments

General Comments

Three operable units were designated at the site: Operable Unit 1 - Soil; OU2 – Groundwater; and OU3 – Wetlands. The remedy selected in the 1990 Record of Decision for OU1 included excavation, processing and on-site incineration of soil contaminated with PCBs in excess of 10 ppm to four feet, and in excess of 100 ppm at depths greater than four feet. An Explanation of Significant Differences was issued in 1995 that changed the soil treatment technology from incineration to thermal desorption. Excavation and treatment of the approximately 38,000 tons of PCB contaminated soil in excess of 10 ppm from the surface to 27 ft was completed in 2000.

The 2005 ROD for OU2 addressed groundwater in the fractured bedrock and alluvium. A technical impracticality waiver was issued for chemical-specific Applicable or Relevant and Appropriate Requirements for the fractured bedrock. Enhanced biodegradation was the primary remedy component for the alluvial aquifer. The other major remedy components for each aquifer are institutional controls, wellhead treatment (where appropriate) and long-term monitoring. An ESD issued in 2013 for the alluvial aquifer changed the remedy from enhanced biodegradation to monitored natural attenuation and modified two of the remedial action objectives. Managing the migration of the COCs in the fractured bedrock/alluvial groundwater and the COC migration from fractured bedrock into the alluvium were removed from the RAOs. The 2005 ROD has not been implemented at the site.

A remedy has not been selected for implementation at OU3.

Technical Assessment

Question A- Is the remedy functioning as intended by the decision document?

The PCB contaminated soil has been removed and treated on-site. The remedial action has been completed for OU1 and appears to be functioning as intended by the ROD and ESD. Human health risks for this media have been addressed through this action. According to the 2005 ROD, PCB contamination was detected to the top of the bedrock. The source areas for groundwater impacts are thought to be contamination remaining in the soil in the area of wells MW-3/5/11 on the southeast portion of the site and the former transformer storage area.

The selected remedy for OU2 has not been implemented at the site. Groundwater impacts in the bedrock may flow into the alluvium. Institutional controls will apparently be implemented or imposed to prevent exposure to the contaminated groundwater thereby limiting potential exposure and human health risk concerns.

A remedy has not been selected for the wetland area. A remedial investigation and feasibility study is warranted to evaluate selection and implementation of an appropriate remedy in the wetlands area.

- *Is the selected remedy adequate for this site?* The OU1 remedy included excavation and thermal desorption to treat approximately 38,000 tons of PCB impacted soil at the site. This remedy was appropriate for the site. As indicated, a TI wavier was issued due to the highly variable and fractured nature of the bedrock aquifer. An ESD for groundwater was issued in 2013 for the OU2 alluvial aquifer that changed the remedy from enhanced biodegradation to monitored natural attenuation (EPA, 2013). This remedy has not been implemented at the site nor has a remedy been selected for OU3.

- *Is the plume stable?* Monitoring frequencies during this FYR period for all site associated wells has been insufficient to adequately evaluate plume stability or contaminant trends. For this FYR, the alluvial wells appear to have been sampled four times over two years (2012 – 2013). The bedrock wells were not sampled during this FYR period. We recommend periodic sampling frequencies be increased.

- *Do contaminant trends indicate the remedy is adequate?* The remedy for OU2 has not been implemented at this site. As indicated, monitoring frequencies are inadequate and contaminant trends for this FYR period cannot be evaluated at this site.

Vapor Intrusion (VI) Pathway

- *Are the COCs of sufficient volatility and toxicity to warrant a VI investigation?* There are VOCs of sufficient volatility and toxicity that have been detected in groundwater at this site. However, not all site associated wells have been sampled during this FYR period. The alluvial wells were last sampled in 2013. COC concentrations detected in those wells are not sufficient to warrant a VI investigation. No current receptors are present in the area of the alluvial wells. On-site wells were apparently last sampled in 2004.

- *Has a VI Investigation been conducted at this site?* No, a VI investigation was not conducted at this site. Concentrations of several COCs detected in groundwater during the last on-site event could potentially present a VI concern. Although, unless there are occupied structures, only a future use scenario would apply. If there are occupied structures, a mitigating factor would be the near surface site geology which consists of 15 ft to 25 ft of silt underlain by gravelly clay. These finer materials would inhibit vapor transport.

- *Is the VI pathway complete? If complete, has the VI concern been adequately mitigated to insure protectiveness?* A VI investigation was not conducted at this site. Unless there are currently occupied structures, the VI pathway will not be complete.

References

ENVIRON. 2006. Missouri Electric Works Expanded Ecological Risk Screening Evaluation. ENVIRON International Corporation, Emeryville/Atlanta, Georgia.

France-Isetts, P. 2000. Remedial Action Report, On-Site Thermal Treatment of Contaminated Soils. Memo from Pauletta France-Isetts to Michael J. Sanderson. EPA Region 7, Kansas City, Kansas.

Komex. 2005a. Groundwater Remedial Investigation, Missouri Electric Works Site. Komex H_2O Science, Inc., Westminster, CA.

Komex. 2005b. Fractured Bedrock and Alluvium Groundwater Remediation Feasibility Study. Komex , H_2O Science, Inc., Westminster, CA.

Komex. 2005c. Fractured Bedrock Technical Impracticability Evaluation Report. Komex H_2O Science, Inc., Westminster, CA.

Komex, 2005d. Second Quarter 2005 Groundwater Monitoring Data Package. Komex H_2O Science, Inc., Westminster, CA.

U.S. EPA. 1990. Record of Decision, Operable Unit 1: Soil. U.S. EPA Region 7, Kansas City, Kansas.

U.S. EPA. 1995. Explanation of Significant Differences in the Record of Decision. U.S. EPA Region 7, Kansas City, Kansas.

U.S. EPA. 1997. Ecological Risk Assessment Guidance for Superfund: Process for Designing and Conducting Ecological Risk Assessments – Interim Final. EPA 540-R-97-006. OSWER 9285.7-25. Office of Solid Waste and Emergency Response, Washington, D.C.

U.S. EPA. 2000. Guidance for Assessing Chemical Contaminant Data for Use in Fish Advisories, Volume I: Fish Sampling and Analysis. EPA 823-B-00-007. Office of Water, Washington, D.C.

U.S. EPA. 2001. Comprehensive Five-Year Review Guidance. EPA 540-R-01-007, OSWER No. 9355.7-03B-P. Office of Emergency and Remedial Response, Washington, D.C.

U.S. EPA, 2004. First Five Year Review Report for Missouri Electric Works Site, Cape Girardeau, Cape Girardeau County, Missouri, September 2004.

U.S. EPA. 2005. Record of Decision, Missouri Electric Works Site, Cape Girardeau, Missouri, Operable Unit 2: Groundwater. U.S. EPA Region 7, Kansas City, Kansas.

U.S. EPA. 2006. 2006 Edition of the Drinking Water Standards and Health Advisories. EPA 822-R-06-013. Office of Water, Washington, D.C.

U.S. EPA, 2009. Second Five Year Review Report for Missouri Electric Works Site, Cape Girardeau, Cape Girardeau County, Missouri, August 2009.

U.S. EPA, 2013. Explanation of Significant Differences for the Missouri Electric Works Superfund Site, Cape Girardeau, Cape Girardeau County, Missouri November, 2013.