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Remediation Support Summary Report - Update

Sangamo Weston, Inc. Plant Site

Pickens, South Carolina

February 2010

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List of Acronyms

AST	aboveground storage tank
bgs	below ground surface
COC	constituent of concern
DCE	dichloroethene
DPT	direct-push technology
FS	Feasibility Study
gpm	gallons per minute
GPS	global positioning system
MCL	Maximum Contaminant Level
NPDES	National Pollutant Discharge Elimination System
NPL	National Priority List
OU-1	Operable Unit One
OVA	Oorganic vapor analyzer
PCB	polychlorinated biphenyl
PCE	tetrachloroethene
PDB	passive diffusion bag
PID	photoionization detector
ppm	parts per million
RI	Remedial Investigation
ROD	Record of Decision
Sangamo Weston	Sangamo Weston, Inc.
SC DHEC	South Carolina Department of Health and Environmental Control
Schlumberger	Schlumberger Technology Corporation
SSL	Soil Screening Level
SVE	soil vapor extraction
TCE	trichloroethene
USEPA	United States Environmental Protection Agency
VOC	volatile organic compound

Section 1
Introduction

1.1 Background

The former Sangamo Weston, Inc. (Sangamo Weston) manufacturing plant and its associated 220 acres are located northwest of Pickens, South Carolina. The plant manufactured capacitors and other related electrical components from 1955 until 1987 when the business was sold. The manufacturing processes used a variety of dielectric fluids including fluids that contained polychlorinated biphenyls (PCBs). Waste disposal practices included land burial of off-specification capacitors and wastewater treatment sludges at several locations on the property.

The Sangamo Weston site was proposed to the National Priorities List (NPL) in January 1987, and was finalized on the NPL in February 1990. As a result of a merger with Sangamo Weston, Schlumberger Technology Corporation (Schlumberger) became the responsible party for the site. Schlumberger conducted the Remedial Investigation/Feasibility Study (RI/FS) from 1987 to 1988. The United States Environmental Protection Agency (USEPA) issued the Record of Decision (ROD) for the Plant Site (Operable Unit One [OU-1]) in December 1990. The contaminated media of concern at the site, as identified in the ROD, are surface/subsurface soils and groundwater. The primary constituents of concern (COCs) are PCBs and volatile organic compounds (VOCs), predominantly trichloroethene (TCE) and tetrachloroethene (PCE), in the groundwater.

Using monitoring well locations installed during the RI and additional strategically located wells, groundwater extraction and treatment began at the Plant Site in November 1998 from six areas. The extraction system includes extraction wells with submersible pumps, a surge tank and a groundwater collection basin. The recovered groundwater is treated by air stripping, filtration and activated carbon adsorption prior to discharge to Town Creek via National Pollutant Discharge Elimination System (NPDES) Permit No. SC0046612. The system has operated continuously since startup with minor downtime for maintenance and power failures.

1.2 Summary of Post–Record of Decision Investigations

In addition to implementation of groundwater recovery and treatment, numerous investigation/remediation activities have been performed at the Plant Site since the issuance of the 1990 ROD. These activities included the following:

- *September 1998*: A soil vapor extraction (SVE) system was installed at Area D of the Plant Site. The system operated through July 2002 when the system was shut down due to

decreased VOC removal efficiency. The SVE system recovered an estimated 8,300 pounds of VOCs during this 4 year period.

- ***January 2005, RMT, Revised Supplemental Groundwater Assessment Workplan:*** The annual bioaccumulation tests using *corbicula* clams indicated a presence of PCBs in Town Creek downgradient of the Plant Site (*e.g.*, between Sangamo Road and Town Creek), possibly indicating a groundwater to surface water pathway. The workplan was implemented and samples were collected from in situ groundwater/subsurface soil and pore water from sediments along the suspect reach of Town Creek. PCBs, TCE, and PCE were detected in groundwater at concentrations greater than Maximum Contaminant Levels (MCLs).
- ***June 2005, RMT, Supplemental Groundwater Remediation Workplan:*** As a result of the Town Creek investigation, two additional groundwater recovery wells and one monitoring well were installed. The two new extraction wells are known as SPRW-701 and SPRW-702 and the extraction area is referred to as Area 7. The new wells were placed on line in November 2005 and continue to operate today.
- ***March 2007 Phase 1 Residual Source Investigation:*** In 2007, two phases of residual source investigations were conducted at the former Sangamo Weston Plant Site to identify potential residual VOCs in the unsaturated (vadose) saprolite zone in an effort to accelerate groundwater remediation. During the Phase 1 investigation, horizontal delineation of potential source areas was performed. The results of Phase 1 investigations were summarized in the *Amended Workplan to Conduct Phase 2 of the Residual VOC Source Investigation for the Sangamo Plant Site* submitted to the USEPA on May 15, 2007.
- ***June 2007 Phase 2 Residual VOC Source Investigation:*** Phase 2 investigation focused on both a refined horizontal delineation and a vertical delineation of the source areas. The Phase 2 Report, *Findings of Phase 2 Residual VOC Source Investigation for the Plant Site* was submitted to USEPA on October 16, 2007.
- ***2007 Seismic Survey:*** In addition to source investigations, Schlumberger Water Services conducted high resolution 3-D seismic surveys of Area H and the former Manufacturing Building Areas. These surveys revealed the presence of several northwest to southeast and northeast to southwest trending fractures located between the former manufacturing building and Areas G and H.
- ***September 2008 SVE Pilot Study:*** Based on the results of the seismic, Phase 1 and Phase 2 investigations, and in collaboration with Schlumberger's Water Services group, SVE was chosen as a potential source remedy and SVE well locations were selected. The primary objective of the SVE pilot test was to evaluate the effectiveness of SVE in removing residual VOCs from the vadose zone within the source areas identified above. The VOCs observed in the subsurface are thought to be contributing to the continuing high concentrations of VOCs in the groundwater down gradient from the source areas. Although high VOC concentrations were recovered initially with the pilot units, concentrations dropped

significantly after 24 to 48 hours. The pilot units ran for 6 to 7 weeks then were shut down for 3 months. The units were then restarted, but no rebound of VOCs had occurred. The results of the pilot study were documented in *Soil Vapor Extraction (SVE) Pilot Study* (RMT, February 2009).

Utilizing data collected over the past 22 years, a 3-dimensional site working hydrostratigraphic model has been developed for the site. Through the development of the working hydrostratigraphic model additional data gaps, critical to advancing site remedial goals, have been identified. The additional investigation activities proposed to address these data gaps were outlined in the *May 2009 Remediation Support Workplan* (RMT May 2009).

Data gathering was intended to provide the information necessary to further refine the model with the long range purpose of identifying additional possible source areas and/or contaminant pathways remaining on the site. Upon completion of the additional investigations, the findings were evaluated and follow up actions proposed in the *Remediation Support Summary Report* (RMT September 2009). Several of the follow up actions were implemented during the fourth quarter of 2009 and are presented in this Update.

The documentation provided in Table 1-1 provides a concise summary of the recently completed (second half of 2009) site investigation activities including a discussion of the rationale for the various technical investigations, actions taken to fill data gaps, significant findings and conclusions, and proposed follow up actions for Agency consideration. Due to the interrelated nature of the activities conducted, Table 1-1 is an expansion of the initial Table 1-1 presented in the September 2009 report. Results of site investigation activities completed as part of the Proposed Follow-up Action in the September 2009 report are depicted with an "a" designation on Table 1-1 (*i.e.*, 3a).

Tables

Table 1-1
Remediation Support Activities and Findings – Update

RATIONALE FOR TECHNICAL EVALUATION	ACTION TAKEN	INVESTIGATION FINDINGS AND CONCLUSIONS	ADAPTIVE MANAGEMENT APPROACH PROPOSED FOLLOW UP ACTIONS
1. Discharge to Surface Water North of Area D Refinement of the site hydrostratigraphic model indicated the possible existence of a groundwater flow pathway beneath Area D that, if present could carry VOCs to the northwest from Area D potentially discharging into the unnamed stream west of existing well SPMW-06 (Figure 1-1). If confirmed, VOC discharge to surface water could result in adverse effects to human or ecological receptors.	The following actions were taken to assess surface water quality and confirm that there is no exposure to human and/or ecological receptors. ▪ Established a surface water sampling point (SW-10) in the unnamed stream west of existing well SPMW-06 (Figure 1-2). ▪ Collected one surface water sample (SW-10) for VOC and PCB analysis.	**Findings** ▪ VOCs and PCBs were not detected in surface water sample SW-10. Analytical reports are provided in Appendix A. **Conclusions** ▪ No current exposure to human and/or ecological receptors in this stream segment from site related COCs. ▪ Potential plume migration north from Area D not confirmed.	▪ No further action proposed.
2. Vertical Extent of VOCs Downgradient Groundwater flow and contaminant transport mechanisms predicted by the site hydrostratigraphic model suggest that the vertical extent of VOCs in groundwater is limited to the uppermost fracture sets encountered in bedrock (Figure 1-1). These fracture sets have been intercepted by the groundwater extraction wells installed downgradient of the various source areas. As a result, the groundwater extraction wells provide an opportunity to validate the site hydrostratigraphic model and characterize VOC transport without installing additional deep monitoring wells.	The following actions were taken to evaluate potential preferential flow pathways and assist in the vertical delineation of VOCs downgradient of known source areas. ▪ Discontinued pumping to allow aquifer to return to pre-pumping conditions. ▪ Installed passive diffusion bag (PDB) samplers in groundwater extraction wells located south of Area D (SPRW-301 and SPRW-303a), west of former wastewater treatment lagoon (SPRW-401), south of Area G (SPRW-602), and north of Area H (SPRW-202 and SPRW-203) (Figure 2-1). ▪ PDB samplers placed on 10 foot centers from the observed water table to the bottom of the open rock boreholes. Forty-two PDB samplers deployed. ▪ Groundwater samples retrieved and shipped to the analytical laboratory for VOC analysis.	**Findings** ▪ Concentrations did not vary at depth within borehole (Table 2-1). ▪ Temperature and VOC concentration data correlated in PDBs recovered in morning, whereby the highest concentrations of VOCs were measured in the samplers with the lowest temperature. High ambient afternoon temperatures heated the samplers as they were suspended in the well while awaiting processing. ▪ In general, observed VOC concentrations were consistent with annual sampling results. **Conclusions** ▪ Data generated by this activity is inconclusive. ▪ Preferential VOC flow pathways were not identified. ▪ PCE/TCE ratios observed in SPRW-401 more closely matched the fingerprint of the VOC plume beneath former wastewater treatment area than disposal areas upgradient.	Identification of preferential flow pathways and vertical delineation of VOCs continues to be an important goal in support of site-wide remediation and warrants further consideration. Therefore the following follow-up actions are proposed: ▪ Discontinue pumping to allow water levels to return to pre-pumping conditions ▪ Conduct a detailed, down-hole, temperature survey in the groundwater extraction wells used in the PDB study. This information will be used to more precisely identify temperature anomalies and infer groundwater flow pathways. ▪ If temperature anomalies are observed, a borehole televiewer will be suspended in the wells to view the geology at the location of the temperature anomaly. ▪ If the correlation between the observed temperature anomalies and the geology is confirmed, the extraction pumps will be removed and duel packers will be installed for discrete interval groundwater sampling. ▪ The results of this assessment will be used to evaluate the need for, and design of, additional groundwater monitoring control in the vicinity of SPRW-401.

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RATIONALE FOR TECHNICAL EVALUATION	ACTION TAKEN	INVESTIGATION FINDINGS AND CONCLUSIONS	ADAPTIVE MANAGEMENT APPROACH PROPOSED FOLLOW UP ACTIONS
3. VOC Discharge via Groundwater Seeps Historical surface water sampling results from SW-3, located downstream of the off-site groundwater seeps (see Figure 3-1) provide evidence for VOC migration in preferential flow pathways within the upper portion of the aquifer. This data also documents groundwater discharge to surface water with potential adverse affects to human and/or ecological receptors.	The following actions were taken to better characterize the extent of the groundwater seep area: ▪ Discontinued pumping from the Area 3 extraction wells to allow the water table to re-equilibrate. ▪ Identified the location of 6 groundwater seeps (GWS-01 through GWS-06) and established the coordinates using a hand-held global positioning system (GPS) (Figure 3-1). ▪ Collected samples from each of the seep locations, for VOC analysis. ▪ Collected 3 additional surface water samples (SW-11, SW-12, and SW-13) downstream of the seep areas to evaluate potential VOC impacts (Figure 3-1).	**Findings** ▪ TCE and PCE detected above the South Carolina Water Quality Criteria for the Protection of Aquatic Life and Human Health in all six groundwater seep samples (Table 3-1) ▪ The maximum concentrations of VOC were detected in groundwater seep sample GWS-06 (PCE 0.083 mg/L; TCE 0.572 mg/L) ▪ TCE was also detected in the downstream pond at a concentration of 0.0026 mg/L (SW-11). ▪ VOCs were not detected downstream of the pond or at Reece Mill Road (SW-12 and SW-13). **Conclusions** ▪ Based on screening level comparisons of VOC concentrations to published standards, the concentrations of VOCs measured in the groundwater seeps may represent a potential adverse effect to human and ecological receptors. ▪ An evaluation of remedial options to mitigate potential exposures is appropriate. ▪ PCE/TCE ratios and trace level detections of 1,1-dichloroethene (1,1-DCE) , acetone, and toluene link the groundwater seeps to two separate source areas. Seep sampling locations GWS-01 through GWS-04 correlate with source Area G and sampling locations GWS-05 and GWS-06 correlate with source Area D	To support the evaluation of remedial options/technologies the following data gathering is proposed: ▪ Determine the depth to bedrock along the stream segment where the groundwater seeps were encountered. ▪ Construct a weir at the access road upstream of the Area 3 extraction wells to measure the range of flow rates anticipated in this stream segment. **Proposed Actions Implemented – See Item 3a.**
3a. VOC Discharge via Groundwater Seeps Analysis of surface water samples collected from the off-site seeps south of the property confirmed transport of VOCs from groundwater to surface water at levels posing a potential adverse effect to human and ecological receptors. PCE/TCE ratios and trace constituent detections link seeps to source Area G and source Area D.	The following actions were taken to support the design of an engineered remedy for the seeps: ▪ Utilized direct-push technology (DPT) to determine depth to bedrock within off-site seep area ▪ Constructed weir to measure range of flow rates in stream segment fed by seeps. ▪ Collected surface water sample from newly discovered seep identified north of GWS-01. This seep, GWS-07, is located on Schlumberger property (see Figure 3-2). ▪ Collected surface water samples from small seep on the north side of the property near the Area 2 groundwater extraction wells. This seep area had been previously sampled by USEPA for PCBs which were not detected and as a result the area was not identified as a concern of the Agency.	**Findings** ▪ VOCs detected in GWS-07 are similar to those previously detected in GWS-01 through GWS-03 (see Table 3-1) ▪ GWS-07 daylights and flows at a very low rate (less than one gallon per minute [gpm]) for an overland distance of approximately 20 feet, before seeping back underground. ▪ Depth to refusal in the off-site seep area south of the Schlumberger property ranged from approximately 2.5 to greater than 8 feet below ground surface (bgs). ▪ Flow rates measured at the downstream end of the culvert in Area 3 ranged from 20 to 30 gpm. ▪ VOCs (PCE, TCE, 1,2-DCE and vinyl chloride) detected in seep samples collected near Area 2 groundwater extraction wells. TCE concentrations ranged from 0.147 to 0.181 mg/L (see Table 3-2). **Conclusions** ▪ French drain collection system is viable remedy for collection and treatment of groundwater discharged to seeps south of the Schlumberger property. ▪ French drain collection system is not recommended to extend to GWS-07 due to the very low VOC concentrations and minimum risk of exposure to human health and the environment. ▪ Area 2 seeps may be surface expression of groundwater traveling through higher permeability zones that are not being captured by the groundwater migration control system.	To mitigate impacted groundwater released through the off-site seep area south of Schlumberger's property, the following remedial actions have been proposed in *Groundwater Seep Collection System Workplan and Design Report* (RMT, 2009): ▪ Install French drain collection system ▪ Pump collected groundwater back to the Plant Site groundwater treatment system ▪ Discharge to Town Creek through existing NPDES permitted outfall To mitigate impacted groundwater released through the seeps in Area 2, the following actions are proposed: ▪ Install collection sump where seeps discharge to ground surface ▪ Convey water into one of the Area 2 recovery wells for collection and transport to the groundwater treatment system

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RATIONALE FOR TECHNICAL EVALUATION	ACTION TAKEN	INVESTIGATION FINDINGS AND CONCLUSIONS	ADAPTIVE MANAGEMENT APPROACH PROPOSED FOLLOW UP ACTIONS
4. Residual VOC Source North of Former Plant Surface soil located west of the former plant was removed and used as fill during the last plant expansion in 1968. The soil was placed in a ravine beneath the northwest corner of the former plant site building and extending down the ravine to the north. These materials were not characterized during the RI. Phase 1 and Phase 2 soil vapor source delineation sampling in this area confirmed the presence of fill material and VOC vapors in the near surface soil. The observed "hot spot" appeared to be delineated, but the extent to the north is unbounded.	The following actions were taken to better define the extent of VOCs north of the northwest corner of the former manufacturing building. ▪ Deployed 81 passive vapor samplers (Gore Sorber's) on approximately 50-foot spacing in a 400-foot square area north of the northwest corner of the former manufacturing building to evaluate potential residual sources in fill material (Figure 4-1). ▪ Deployed an additional 20 Gore Sorber's north, south, and east of the former manufacturing building to document the absence of additional sources and eliminate these areas of the property from future source consideration. ▪ Samplers retrieved and analyzed for VOCs.	**Findings** ▪ With the exception of one sample located south of the former manufacturing building, residual VOCs were not identified to the north or east of the former manufacturing building (Figure 4-1, Appendix B). ▪ Residual source material in fill soil deposited in the ravine located along the northwest corner of the former manufacturing building is not likely. ▪ An area of VOC vapors (primarily PCE) was measured in the vicinity of the northwest corner of the former manufacturing building. This area elongates to the north, down the ravine towards the extraction wells installed at Area 2 (Figure 4-1). ▪ The highest concentrations of PCE vapors overlie the inferred fracture zone and generally decrease to the east and west, with the highest concentrations overlying geologic structures interpreted by the 3-D shallow seismic survey performed by Schlumberger Water Services (Figure 4-2). **Conclusions** ▪ The distribution of vapor detections north of the northwest corner of the former manufacturing building is interpreted to be indicative of a vapor cloud off of groundwater plume. ▪ Vapor migration appears to be controlled by the occurrence of vertical geologic structures (*e.g.*, faults and/or fractures) as the relic metamorphic fabric and bedding is gently dipping to the north. ▪ The upgradient extent of vapors and the potential for residual source material beneath the northwest portion of the former manufacturing building is unknown.	To support remedial planning efforts by addressing potential residual VOC sources and better defining preferential flow pathways, the following actions are proposed: ▪ Install a groundwater monitoring well north of the northwest corner of the former manufacturing building, where the vapor concentrations were the highest (Figure 4-2). The purpose of this activity is to establish the presence or absence of the hypothetical groundwater plume emanating from the former manufacturing building. ▪ If the presence of a groundwater plume is confirmed, advance a series of boreholes in the northwest quadrant of the former manufacturing building to locate potential continuing sources of VOCs in the unsaturated soil horizon. **Proposed actions implemented – see Item 4a.**

Table 1-1
Remediation Support Activities and Findings – Update

RATIONALE FOR TECHNICAL EVALUATION	ACTION TAKEN	INVESTIGATION FINDINGS AND CONCLUSIONS	ADAPTIVE MANAGEMENT APPROACH PROPOSED FOLLOW UP ACTIONS
4a. Residual VOC Source North of Former Plant An area of VOC vapors was identified in the vicinity of the northwest corner of the former manufacturing building. Vapor migration appears to be controlled by the occurrence of vertical geologic structures (*e.g.*, faults and/or fractures) interpreted by the 3-D shallow seismic survey performed by Schlumberger Water Services. Geometry of soil gas plume and structural features suggest potential for existence of a groundwater plume emanating from beneath the northwest portion of the former manufacturing building.	The following actions were taken to assess potential residual VOC sources beneath the northwest corner of the former manufacturing building: ▪ Installed monitoring well SPMW-15 near northwest corner of former manufacturing building, where soil vapor concentrations were observed to be the highest (Figure 4-3). ▪ Advanced six boreholes in the northwest quadrant of the former manufacturing building to locate potential continuing sources of VOCs in the unsaturated soil horizon (see inset, Figure 4-3).	**Findings** ▪ VOCs, predominately PCE and TCE, were detected in groundwater sampled from SPMW-15 at concentrations above their respective MCLs (Table 4-1). ▪ Field screening of soil samples collected from 6 borings advanced in the vicinity of SVE Pilot well P-1 did not indicate the presence of a significant residual VOC source within the presumed area of the former aboveground storage tank (AST) (see Figure 4-3). Photoionization detector (PID) measurements were predominately single digit range, with a maximum reading of 40 parts per million (ppm). ▪ Trace levels of PCB Aroclor 1242, at an estimated concentration below the reporting limit were also detected in groundwater sampled from SPMW-15. **Conclusions** ▪ The concentration of PCE in groundwater sampled from SPMW-15 compared to the PCE concentrations measured in soil gas samples analyzed during the June 2007 Phase 2 Residual VOC Source Investigation support the earlier conclusion that a vapor cloud is present in vadose zone soils above the VOC groundwater plume. ▪ The source of VOCs detected in groundwater sampled from well SPMW-15 could be the former AST. SVE has been implemented to address this residual source. ▪ Current PID field screening results combined with the results of the Phase 1/Phase 2 soil gas investigations suggest little potential for an additional continuing VOC source in vadose zone soils beneath the former manufacturing building. ▪ PCE/TCE ratios in groundwater combined with the interpreted groundwater divide beneath the former manufacturing building suggest that the VOCs detected in monitoring well SWMW-1 are part of the same groundwater plume encompassing well SPMW-15 and other monitoring wells located west and northwest of the former manufacturing building. This interpretation is further supported by the results of the Gore Sorber investigation which identified a vapor cloud potentially emanating from the southeast corner of the former manufacturing building (Figure 4-3), suggesting a connection beneath the footprint of the former building.	To support remedial planning efforts and provide additional supporting evidence for the presence or absence of a continuing VOC source beneath the northwest corner for the former manufacturing building, the following is proposed: ▪ Add monitoring well SPMW-15 to the annual groundwater monitoring program and evaluate trends in VOC concentrations over time. ▪ Install new well east of Area 2 (Figure 4-3) to assess eastern extent of VOCs in groundwater.

Table 1-1
Remediation Support Activities and Findings – Update

RATIONALE FOR TECHNICAL EVALUATION	ACTION TAKEN	INVESTIGATION FINDINGS AND CONCLUSIONS	ADAPTIVE MANAGEMENT APPROACH PROPOSED FOLLOW-UP ACTIONS
5. SVE Source Evaluation/Remediation While a considerable amount of technical screening level data has already been acquired, detailed correlations between site stratigraphy, soil permeability, soil moisture, and VOC distribution that affect the likelihood of success and the consequent applicability of SVE to the site have not been made. In addition, detailed review of the geologic information from Area D and Area H drilling records documents a highly complex sequence of alternating hard (competent) and soft (weathered) zones extending to the water table. Previous source characterization and remediation efforts have focused on the upper unconsolidated saprolite above auger refusal. Because auger refusal had been encountered before intercepting the water table, the potential for continuing VOC sources remained beneath Area D and Area H.	The following actions were taken to identify the location and concentration of residual mass, how it correlates with subsurface soil characteristics, and evaluate the efficacy of SVE as a technology for source remediation. ▪ Advanced 4 control points in Area D and 3 control points in Area H (Figure 5-1). The locations were selected based on the soil vapor results from the June 2007 source delineation investigation and site knowledge. ▪ Soil samples were collected continuously from land surface down to auger refusal. Soil samples were screened in the field for VOCs using an organic vapor analyzer (OVA). ▪ Detailed visual geologic logs were prepared so that investigation findings could be correlated to changes in subsurface soil characteristics (Appendix D). ▪ Based on the visual observations and field screening results, discreet intervals were selected for permeability testing (Shelby tube sampling) and VOC analysis at an analytical laboratory.	**Area D Findings** ▪ Evidence of a continuing source of VOCs to groundwater was not encountered. — Field PID screening for organic vapors varied from 0- to 5 ppm. — Low levels of PCE and TCE were detected at the laboratory (Table 5-1). — Review of historic groundwater quality data obtained from samples collected in Area D monitoring wells show steady to declining levels of PCE and TCE. **Area H Findings** ▪ Evidence of a continuing source of VOCs was identified in subsurface soil. — Field PID screening for organic vapors up to 987 ppm were encountered in sampling location CP-H-02. No appreciable measurements in were observed at sampling locations CP-H-01 or CP-H-03 despite being located in a position where the source delineation vapor sampling indicated high vapor concentrations. — Highest PID measurements correlated with finer textured soil horizons suggesting matrix diffusion into finer grained materials (silts and clays versus sand) (Table 5-2). — Significant decrease in PID measurements below 16.5 feet. Unlike previous sampling efforts that encountered auger refusal at approximately 25-feet below land surface, CP-H-02 was advanced down to groundwater (66-feet below land surface) without encountering bedrock. — Laboratory testing indicated PCE, TCE, methylene chloride and toluene were present at concentrations above Soil Screening Levels (SSLs) for migration to groundwater (Table 5-1). — Maximum observed concentrations were detected in the 3.5 to 4.0 foot interval at sampling location CP-H-02 suggesting a shallow surface or near surface release. The PCE and TCE concentrations measured were 2,250 mg/kg and TCE 397 mg/kg respectively. — Soil permeability measurements yielded results of between 10^{-6} and 10^{-8} cm/sec (Appendix C). **Conclusions** ▪ VOC concentrations measured in Area D soil is not considered to be a continuing source to groundwater. ▪ VOC concentrations encountered in Area H are considered to be a continuing source of VOCs to groundwater. Residual source area appears be small, isolated, and relatively shallow (<16-feet). ▪ Areas of high soil vapor readings, including CP-H-02, appear to correlate with geologic structures interpreted by the 3-D seismic survey (Figure 4-2). ▪ Site-specific factors including low soil permeability, soil moisture, and age of release, combined suggest that SVE has a low probability of success and is not a viable remedial technology for VOC source remediation (Figure 5-2).	To support remedial planning efforts by addressing potential residual VOC sources and better defining preferential flow pathways, the following actions are proposed: ▪ Establish a sampling grid utilizing a direct push rig and field PID screening to locate other small isolated source areas in Area H, if present. ▪ To evaluate groundwater quality beneath Area H and the potential presence of preferential flow pathways from Area H to Area 2, install an additional groundwater monitoring well at the location of CP-H-02 overlying the north-south striking fault interpreted by the 3-D seismic survey (Figure 4-2). This well will be double cased to minimize the risk of cross contamination and constructed using 6-inch diameter screen and riser so that it can serve multiple purposes, if necessary. **Proposed actions implemented – See item 5a.**

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Remediation Support Activities and Findings – Update

RATIONALE FOR TECHNICAL EVALUATION	ACTION TAKEN	INVESTIGATION FINDINGS AND CONCLUSIONS	ADAPTIVE MANAGEMENT APPROACH PROPOSED FOLLOW UP ACTIONS
5a. SVE Source Evaluation/Remediation – Area H RIs conducted during 2007 (Phase 1 and Phase 2 soil gas source delineation) and the summer of 2009 (control point SVE efficacy evaluation) identified evidence of a continuing source of VOCs in the subsurface soils in Area H. Residual source area appeared to be small, isolated, and relatively shallow (<16 feet). ▪ A remedial action to address PCBs in soil was conducted in Area H between 1995 and 1997. Continued low level detections of PCBs in groundwater sampled from SPMW-12 suggested that residual levels of PCBs could remain in the subsurface soils of Area H.	The following actions were taken to further characterize residual VOC and PCB sources in Area H: ▪ Established soil sampling grid in Area H, using control point CP-H-02 as a benchmark. ▪ Collected subsurface soil samples continuously using direct-push technology to depths of approximately 20 feet below grade, or refusal, whichever was shallower. ▪ Screened soil cores for VOCs using a portable PID. ▪ Used VOC screening to select sample intervals for laboratory analysis and guide the placement of additional borings within the grid for field screening. ▪ Based on field screening measurements, selected discreet intervals for VOC analysis at an analytical laboratory. Selected subset of VOC samples for PCB analysis. ▪ A total of 46 borings were sampled in Area H (Figure 5-3). ▪ Installed one monitoring well, SPMW-16, in the location of former control point CP-H-02 (Figure 5-3). ▪ Because bedrock was encountered just below the top of the water table, well SPMW-16 was installed as a monitoring, not a potential groundwater recovery well (Appendix E). ▪ Analyzed groundwater sampled from SPMW-16 for VOCs and PCBs.	– **Findings** ▪ Eight subsurface soil samples contained concentrations of PCE and TCE at concentrations above USEPA Regional SSLs for industrial soils (Table 5-3). ▪ Seven of these eight also contained PCBs at concentrations above the 25 ppm clean-up goal specified in the 1990 ROD for the Plant Site. The samples containing elevated PCB concentrations were collected from a depth of 3 feet bgs or greater (Table 5-3). ▪ Each of the subsurface soil samples containing PCBs at levels above the cleanup standard also contained VOCs at concentrations above USEPA industrial SSLs. ▪ PCE and TCE were detected in groundwater sampled from well SPMW-16 at concentrations above their respective MCLs (Table 5-4). ▪ Low levels of PCB Aroclor 1242, at an estimated concentration below the reporting limit, were detected in groundwater sampled from SPMW-16. – **Conclusions** ▪ As was demonstrated with the soil samples collected during the summer of 2009, there appears to be a direct correlation between the concentrations of volatile vapors as measured in the field using a portable PID and concentrations of PCE and TCE measured in soil samples analyzed by the laboratory. In general, PID measurements of approximately 100 ppm or greater appear to correlate with PCE and TCE concentrations in excess of industrial screening levels. ▪ Borings containing VOC-impacted soil are color coded on Figure 5-3. The volume of impacted soil is estimated to be approximately 2,500 cubic yards (3,300 tons). ▪ VOC concentrations encountered in soils in Area H are considered to be a continuing source of VOCs, and potentially PCBs, to groundwater.	With the elimination of SVE as a viable remedial option in Area H, alternate remedial technologies for addressing this ongoing source area will be evaluated.

Table 2-1
Passive Diffusion Bag Analytical Summary

PARAMETER[1]	SAMPLE DESIGNATION/DATA/DEPTH										
	SPRW-202-A 06/30/09 15	SPRW-202-B 06/30/09 25	SPRW-202-C 06/30/09 35	SPRW-202-D 06/30/09 45	SPRW-202-E 06/30/09 55	SPRW-202-F 06/30/09 65	SPRW-202-G 06/30/09 75	SPRW-202-H 06/30/09 85	SPRW-202-I 06/30/09 95	SPRW-204-A 06/30/09 25	SPRW-204-B 06/30/09 35
VOCs											
1,1-DCE	<0.0114	<0.0114	<0.0114	<0.0114	<0.0114	<0.0114	<0.0114	<0.0114	<0.0114	**0.0176**	**0.0128 J**
Acetone	<0.0998	<0.0998	<0.0998	<0.0998	<0.0998	<0.0998	<0.0998	<0.0998	<0.0998	<0.0499	<0.0998
cis-1,2-DCE	**1.55**	**1.53**	**1.48**	**1.51**	**1.6**	**1.48**	**1.47**	**1.53**	**1.5**	**0.74**	**0.681**
PCE	**0.115**	**0.116**	**0.108**	**0.104**	**0.104**	**0.152**	**0.15**	**0.183**	**0.176**	**0.878**	**0.801**
Toluene	<0.0134	<0.0134	<0.0134	<0.0134	<0.0134	<0.0134	<0.0134	<0.0134	<0.0134	<0.0067	<0.0134
trans-1,2-DCE	**0.0211**	**0.0349**	**0.0329**	**0.0182 J**	**0.0367**	**0.0224**	**0.0278**	**0.0329**	**0.038**	<0.0089	<0.0178
TCE	**0.515**	**0.517**	**0.488**	**0.482**	**0.548**	**0.602**	**0.606**	**0.646**	**0.657**	**2.76**	**2.51**
Vinyl chloride	<0.0036	<0.0036	<0.0036	<0.0036	<0.0036	<0.0036	<0.0036	<0.0036	<0.0036	<0.0018	<0.0036
Field Parameters											
pH (standard units)	4.9	4.87	4.87	4.87	4.83	4.87	4.84	4.84	4.86	4.64	4.64
Temperature (°C)	23.1	22.6	22.2	21.6	21.6	21.9	22.6	22.2	22.6	22.2	21.2
Specific Conductivity (µmhos/cm @ 25°C)	6.33	6.7	6.2	6.02	7.36	7.07	7	6.76	6.6	11.84	11.15

PARAMETER[1]	SAMPLE DESIGNATION/DATA/DEPTH										
	SPRW-204-C 06/30/09 45	SPRW-301-A 07/01/09 6.5	SPRW-301-B 07/01/09 13.6	SPRW-301-C 07/01/09 24	SPRW-301-D 07/01/09 34	SPRW-301-E 07/01/09 44	SPRW-301-F 07/01/09 54	SPRW-303A-A 07/01/09 6.68	SPRW-303A-B 07/01/09 18	SPRW-303A-C 07/01/09 28	SPRW-303A-D 07/01/09 38
VOCs											
1,1-DCE	**0.0184**	**0.0099 J**	**0.0112**	**0.0099 J**	**0.0106**	**0.0108**	**0.0105**	**0.0016 J**	**0.0024 J**	**0.0026**	**0.0025**
Acetone	<0.0499	<0.0499	<0.0499	<0.0499	<0.0499	<0.0499	<0.0499	<0.0125	<0.0125	<0.0125	<0.0125
cis-1,2-DCE	**0.748**	**0.195**	**0.204**	**0.209**	**0.184**	**0.213**	**0.207**	**0.0395**	**0.0838**	**0.0838**	**0.0765**
PCE	**0.87**	**0.0745**	**0.0799**	**0.0777**	**0.0725**	**0.0837**	**0.0713**	**0.0153**	**0.0362**	**0.038**	**0.034**
Toluene	<0.0067	<0.0067	<0.0067	<0.0067	<0.0067	<0.0067	<0.0067	<0.0017	<0.0017	<0.0017	<0.0017
trans-1,2-DCE	<0.0089	<0.0089	<0.0089	<0.0089	<0.0089	<0.0089	<0.0089	<0.0022	<0.0022	<0.0022	<0.0022
TCE	**2.37**	**1.09**	**1.14**	**1.15**	**1.02**	**1.21**	**1.08**	**0.205**	**0.309**	**0.313**	**0.296**
Vinyl chloride	<0.0018	<0.0018	<0.0018	<0.0018	<0.0018	<0.0018	<0.0018	<0.00045	<0.00045	<0.00045	<0.00045
Field Parameters											
pH (standard units)	4.64	4.69	4.69	4.67	6.67	4.66	4.65	4.67	4.65	4.7	4.66
Temperature (°C)	20.9	21.6	21.2	20.1	20.8	20.4	20.9	22	20.7	21.1	20.6
Specific Conductivity (µmhos/cm @ 25°C)	10.48	16.68	9.31	9.9	9.45	10.02	9.93	9.24	9.51	9.62	9.86

(1) Analytical results are reported in milligrams per liter (mg/L) unless otherwise noted. Only parameters detected in at least one sample at a concentration above the reporting limit

J Qualitative mass spectral evidence of analyte present; concentration is less than reporting limit.

Sample depths are in feet below ground surface.

Table 2-1
Passive Diffusion Bag Analytical Summary

PARAMETER[1]	SAMPLE DESIGNATION/DATA/DEPTH										
	SPRW-303A-E 07/01/09 48	SPRW-303A-F 07/01/09 58	SPRW-401-A 07/01/09 60.82	SPRW-401-B 07/01/09 72	SPRW-401-C 07/01/09 82	SPRW-401-D 07/01/09 92	SPRW-401-E 07/01/09 102	SPRW-401-F 07/01/09 112	SPRW-602-A 06/30/09 58	SPRW-602-B 06/30/09 68	SPRW-602-C 06/30/09 78
VOCs											
1,1-DCE	**0.0025**	**0.0021 J**	<0.00057	<0.00057	<0.00057	<0.00057	<0.00057	<0.00057	<0.0114	<0.0114	<0.0114
Acetone	<0.0125	<0.0125	**0.007 J**	**0.006 J**	**0.0081 J**	**0.0101 J**	**0.0079 J**	**0.0082 J**	<0.0998	<0.0998	<0.0998
cis-1,2-DCE	**0.0601**	**0.052**	**0.113**	**0.115**	**0.117**	**0.116**	**0.115**	**0.119**	<0.0166	<0.0166	<0.0166
PCE	**0.0385**	**0.0239**	**0.0396**	**0.0405**	**0.043**	**0.0429**	**0.0429**	**0.0385**	**0.894**	**1.03**	**1.08**
Toluene	<0.0017	<0.0017	**0.0164**	**0.0119**	**0.0112**	**0.0057**	**0.0075**	**0.0108**	<0.0134	<0.0134	<0.0134
trans-1,2-DCE	<0.0022	<0.0022	<0.00089	<0.00089	<0.00089	<0.00089	<0.00089	<0.00089	<0.0178	<0.0178	<0.0178
TCE	**0.335**	**0.299**	**0.0165**	**0.0162**	**0.017**	**0.0176**	**0.0156**	**0.016**	**1.64**	**1.63**	**1.71**
Vinyl chloride	<0.00045	<0.00045	**0.002**	**0.0021**	**0.0023**	**0.0023**	**0.0023**	**0.0024**	<0.0036	<0.0036	<0.0036
Field Parameters											
pH (standard units)	4.66	5.25	5.26	5.25	5.23	5.22	5.23	5.07	5.08	5.06	5.03
Temperature (°C)	22.8	22	22.9	23.2	22.9	22.3	22.1	24.7	24.2	22.9	22.3
Specific Conductivity (µmhos/cm @ 25°C)	9.79	3.07	3.25	3.21	3.24	3.25	3.24	8.21	5.1	5.18	4.86

PARAMETER[1]	SAMPLE DESIGNATION/DATA/DEPTH							
	SPRW-602-D 06/30/09 88	SPRW-602-E 06/30/09 98	SPRW-602-F 06/30/09 108	SPRW-602-G 06/30/09 118	SPRW-602-H 06/30/09 128	SPRW-602-I 06/30/09 138	SPRW-602-J 06/30/09 148	SPRW-602-K 06/30/09 158
VOCs								
1,1-DCE	<0.0114	<0.0114	<0.0114	<0.0114	<0.0114	<0.0114	<0.0114	<0.0114
Acetone	<0.0998	<0.0998	<0.0998	<0.0998	<0.0998	<0.0998	<0.0998	<0.0998
cis-1,2-DCE	<0.0166	**0.0178 J**	**0.0207**	**0.0185 J**	**0.0182 J**	**0.0187 J**	**0.0207**	**<0.0166**
PCE	**1.01**	**1.05**	**0.97**	**0.987**	**0.997**	**0.982**	**0.96**	**1**
Toluene	<0.0134	<0.0134	<0.0134	<0.0134	<0.0134	<0.0134	<0.0134	<0.0134
trans-1,2-DCE	<0.0178	<0.0178	<0.0178	<0.0178	<0.0178	<0.0178	<0.0178	<0.0178
TCE	**1.68**	**1.72**	**1.57**	**1.63**	**1.59**	**1.58**	**1.63**	**1.66**
Vinyl chloride	<0.0036	<0.0036	<0.0036	<0.0036	<0.0036	<0.0036	<0.0036	<0.0036
Field Parameters								
pH (standard units)	5.09	5.23	5.16	5.17	5.16	5.16	5.17	5.17
Temperature (°C)	23.1	21.8	26	26.7	27.4	28.1	29.5	29.3
Specific Conductivity (µmhos/cm @ 25°C)	5.04	3.27	3.79	3.72	3.61	3.6	3.58	3.52

(1) Analytical results are reported in milligrams per liter (mg/L) unless otherwise noted. Only parameters detected in at least one sample at a concentration above the reporting limit

J Qualitative mass spectral evidence of analyte present; concentration is less than reporting limit.

Sample depths are in feet below ground surface.

Table 3-1
Surface Water and Seep Sample Results

PARAMETER[1]	SURFACE WATER QUALITY STANDARD[2]	SEEP SAMPLES							SURFACE WATER SAMPLES		
		GWS-01 04/17/09	GWS-02 04/17/09	GWS-03 04/17/09	GWS-04 04/17/09	GWS-05 04/17/09	GWS-06 04/17/09	GWS-07 11/4/09	SW-11 08/03/09	SW-12 08/03/09	SW-13 08/03/09
VOCs											
1,1,1-Trichloroethane	0.2[3]	<0.001	<0.001 uj	<0.001 uj	<0.001 uj	**0.0016 j-**	**0.0032 j-**	<0.001	<0.001	<0.001	<0.001 uj
1,1-Dichloroethane	--	<0.001	<0.001 uj	<0.001 uj	<0.001 uj	**0.00083 Jj-**	<0.0025 uj	<0.001	<0.001	<0.001	<0.001 uj
1,1-DCE	0.007[3]	<0.001	<0.001 uj	<0.001 uj	<0.001 uj	**0.0019 j-**	**0.0033 j-**	<0.001	<0.001	<0.001	<0.001 uj
1,2-DCE, total	--	<0.002	**0.0016 Jj-**	**0.0169 j-**	**0.0016 Jj-**	**0.0199 j-**	**0.0335 j-**	**0.0159**	NA	NA	NA
Acetone	--	<0.02	**0.005 Jj-**	**0.0145 Jj-**	<0.02 uj	<0.02 uj	<0.05 uj	<0.02	<0.02	<0.02	<0.02 uj
Chloromethane	--	<0.001	<0.001 uj	**0.00029 Jj-**	<0.001 uj	<0.001 uj	<0.0025 uj	<0.001	<0.001	<0.001	<0.001 uj
PCE	0.00069	**0.0046**	**0.0032 j-**	**0.0018 j-**	**0.0053 j-**	**0.0347 j-**	**0.0827 j-**	**0.0088**	<0.001	<0.001	<0.001 uj
Toluene	1[3]	<0.001	<0.001 uj	**0.0171 j-**	<0.001 uj	<0.001 uj	<0.0025 uj	<0.001	<0.001	<0.001	<0.001 uj
TCE	0.0025	**0.0103**	**0.0087 j-**	**0.0052 j-**	**0.0075 j-**	**0.243 j-**	**0.572 j-**	**0.0198**	**0.0026**	<0.001	<0.001 uj
Vinyl chloride	0.000025	<0.001	<0.001 uj	**0.012 j-**	<0.001 uj	**0.00023 Jj-**	<0.0025 uj	<0.001	<0.001	<0.001	<0.001 uj
Field Parameters											
Conductance, specific (µmhos/cm @ 25°C)	--	73.3	79.1	173.3	28.5	29.9	30.7	NM	43.9	55.5	81.1
pH (standard units)	--	6.15	6.11	6.50	6.13	6.35	6.08	NM	6.64	6.61	6.67
Temperature (°C)	--		14.8	15.7	16.0	20.1	15.6	NM	23.5	26.5	27

(1) Analytical results are reported in milligrams per liter (mg/L) unless otherwise noted. Only parameters detected in at least one sample at a concentration above the reporting limit are included in this summary table.

(2) SC DHEC Water Quality Numeric Criteria for the Protection of Aquatic Life and Human Health.

(3) USEPA has not calculated a 304(a) human health criterion for this parameter. The criterion is the MCL developed under the Safe Drinking Water Act and the National Primary Drinking Water Regulation.

< Indicates that the compound was analyzed for but not detected.

J Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

j- Concentration considered an estimate biased low based on data validation.

uj Not detected; quantitation limit may be inaccurate or imprecise.

-- No comparison criterion is available for the parameter

NA Not analyzed.

Bolding indicates constituent detection.

Shading indicates concentration exceeds comparison criteria.

Table 3-2
Area 2 Seep Sample Results

PARAMETER[1]	SURFACE WATER QUALITY STANDARD[2]	LOCATION/SAMPLE DATE	
		AREA 2 SEEP 11/04/09	AREA 2 SEEP 11/16/09
1,2-DCE, total	--	**1.14**	**0.945**
PCE	0.00069	**0.0414**	**0.0318**
TCE	0.0025	**0.147**	**0.181**
Vinyl chloride	0.000025	**0.0137**	**0.0095**

(1) Analytical results are reported in milligrams per liter (mg/L) unless otherwise noted. Only parameters detected in at least one sample at a concentration above the reporting limit are included in this summary table.

(2) South Carolina Department of Health and Environmental Control (SC DHEC) Water Quality Numeric Criteria for the Protection of Aquatic Life and Human Health.

Bolding indicates constituent detection.

Shading indicates concentration exceeds comparison criteria.

Table 4-1
Groundwater Quality North of Former Plant

PARAMETER[1]	MCL[2]	LOCATION/SAMPLE DATE	
		SPMW-15 11/09/09	SPMW-15 12/04/09
VOCs			
Chloroform	0.08[3]	**0.0221**	**0.0109 J**
cis-1,2-DCE	0.07	**0.0495**	**0.0705**
PCE	0.005	**0.282**	**0.309**
TCE	0.005	**0.46**	**0.512**
PCBs			
Aroclor-1242	--	NA	**0.00014 J**
PCBs - total	0.0005	NA	**0.00014 J**

(1) Analytical results are reported in milligrams per liter (mg/L) unless otherwise noted. Only parameters detected in at least one sample at a concentration above the reporting limit are included in this summary table.
(2) MCL; Drinking Water Standards and Health Advisories (USEPA, 2006).
(3) MCL for total trichloromethanes.
NA Not analyzed.
J Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.
Bolding indicates constituent detection.
Shading indicates concentration exceeds comparison criteria.

Table 5-1
Control Point Sample Results - June 2009

PARAMETER[1] / SAMPLE LOCATION (Depth)	SSL[2]	AREA D				
		CP-D-02 (10 ft)	CP-D-02 (25 ft)	CP-D-03 (11.5-12 ft)	CP-D-03 (21.3-21.8 ft)	CP-D-04 (16.5 ft)
Acetone	16[3]	**0.0215J**	**0.0755**	<0.0073	<0.17	**0.0088J**
Ethylbenzene	13	<0.0003	<0.00032	<0.00029	<0.0138	<0.0003
Methylene Chloride	0.02	<0.00046	<0.00048	<0.00044	<0.011	3Ju
PCE	0.06	**0.301**	**0.0035J**	**0.189**	**1.66**	**0.0198**
Toluene	12	**0.0022J**	<0.001	**0.002J**	<0.0104	<0.00097
TCE	0.06	**0.0141**	**0.00099J**	**0.0737**	**0.628**	**0.0083**
Xylene (total)	190[4]	<0.0019	<0.002	<0.0018	**0.227**	<0.0019

PARAMETER[1] / SAMPLE LOCATION (Depth)	SSL[2]	AREA H									
		CP-H-01 (12 ft)	CP-H-02 (2 ft)	CP-H-02 (4 ft)	CP-H-02 (6 ft)	CP-H-02 (12 ft)	CP-H-02 (16-16.4 ft)	CP-H-02 (16.6-16.8 ft)	CP-H-02 (33.5 ft)	CP-H-03 (20 ft)	CP-H-03 (24 ft)
Acetone	16[3]	<0.0081	<4.19	<33.7	<3.16	<30	<0.822	**0.0179J**	<0.0066	**0.0217**	**0.0079J**
Ethylbenzene	13	<0.00032	<0.34	**5.65J**	<0.256	**4.03J**	<0.0668	<0.00026	<0.00026	<0.00028	<0.00026
Methylene Chloride	0.02	<0.00049	**1.43Z3J**	**10.4Z3J**	<0.823Z2, Z3Ju	Z3Ju	Z3Ju	**0.0025Z3J**	<0.0014Z3Ju	**0.0017Z3J**	**0.002Z3J**
PCE	0.06	**0.0353**	**225**	**2250**	**153**	**1970**	**21.7**	**0.0127**	**0.0199**	**0.11**	**0.0631**
Toluene	12	<0.001	**0.291J**	**21.5**	**0.998J**	**13.9**	**0.079J**	<0.00082	<0.00084	<0.00091	<0.00085
TCE	0.06	**0.038**	**28.7**	**397**	**24.2**	**285**	**2.11**	**0.0078**	**0.0204**	**0.0486**	**0.0334**
Xylene (total)	190[4]	<0.002	**3.31**	**43.5**	**2.14**	**30.9**	<0.142	<0.0016	<0.0016	<0.0017	<0.00166

(1) Analytical Results are in mg/kg.

(2) SSL for Protection of Groundwater (MCL-based unless otherwise indicated)

(3) Migration to groundwater SSL; DAF=20.

(4) Value is for o-xylene.

J Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

< Concentration less than the Quantitation Limit or not validated if accompanied by "u" qualifier.

Z2 Analyte present in the associated method blank above the detection limit.

Z3 Methylene chloride is a common laboratory contaminant. Results for this analyte should be considered estimated unless the amount found in the sample is 3 to 5 times higher than that found in the method blank.

Table 5-2
CP-H-02 Data Correlation

DEPTH (ft)	REFUSAL	CP-H-02		LABORATORY ANALYSIS		PERMEABILITY (cm/sec)
		SOIL TYPE	PID (ppm)	PCE (mg/kg)	TCE (mg/kg)	
0.5		Sandy Clay (CL)	45.7			
1						
1.5						
2			**205**	**225**	**28.7**	
2.5		Silty Clay (CL)				
3			310			**5.40E-08**
3.5		Clayey silt (ML)				
4			**415**	**2,250**	**397**	
4.5		Sandy Silt with Clay (ML)	>100			
5						**1.30E-06**
5.5						
6			**200**	**153**	**24.2**	
6.5		Silty Sand (SM)	>100			
7						
7.25						
7.5		Sandy Silt (ML)	200 - 300			
8			>100			
8.5		Silty sand to sandy silt (SM/ML)	17.7			
8.75						
9		Sandy silt; little clay (ML)				
9.5			18.2			
9.75			22.3			
10		Silty sand to sandy silt (SM/ML)				
10.25			70.3			
10.5		Silty sand with gravel				
10.75			170.8			
11		Silty to sandy clay (CL)				
11.25						
11.5		Sandy silt (ML)	**987**	**1,970**	**285**	**4.80E-07**
12						
12.5			41			
13		Silty sand (SM)				
13.25			161			
13.5			16			
14		Silty sand with gravel (SM)	19			
14.25						
14.5		Silty sand (SM)	24			
14.75			7.2			
15			6.1			
15.25			15.1			
15.5			12.1			
16			7.2			
16.25		Silty sand to sandy silt (SM/ML)	90.7			
16.5			**93.3**	**21.7**	**2.11**	
16.75		Horneblende Gneiss - weathered	**<10**	**0.0127**	**0.0078**	
17			<10			
17.25						
17.5		Silty sand (SM)				
18						
18.5						
18.75						

Table 5-2
CP-H-02 Data Correlation

DEPTH (ft)	REFUSAL	CP-H-02		LABORATORY ANALYSIS		PERMEABILITY (cm/sec)
		SOIL TYPE	PID (ppm)	PCE (mg/kg)	TCE (mg/kg)	
19		Horneblende Gneiss - weathered	<10			
19.5						
20						
20.5		Silty sand to sandy silt (SM/ML)	<5			
20.75						
21		Silty sand (SM)				
21.25		Silt (ML)				
21.5		Silty sand (SM)				
22		Silt				
22.5		Sandy Silt (ML)				
23						
23.5						
24						
24.25		Silty Sand (SM)	24.2			
24.5						
25		Silt (ML)	1.3			
25.5			<1			
26			<1			
26.5			3.2			
27	MacroCore refusal		<1			
27.5						
28						
28.5		Silty Sand (SM)	4			
29			2			
29.5			3.8			
30			1.3			
30.5			8			
31			4			
31.5			12			
32			5			
32.5		Sandy silt to silty very fine sand (ML)	4.2			
33			6			
33.25						
33.5		Sand and gravel (SP)	**50**	**0.0199**	**0.0204**	
34		Silty Sand (SM)	3.9			
34.5			2.3			
35			<1			
35.5						
36			4			
36.5			3.9			
37			7.1			
37.5			10			
38			13			
38.25						
38.5		Silty very fine sand (ML)	3			
38.75						
39		Clayey sand (SC)	2			
39.5			<1			
40						
40.5		Silty Sand (SM)				
41			1.4			
41.5			2.6			

Table 5-2
CP-H-02 Data Correlation

DEPTH (ft)	REFUSAL	CP-H-02		LABORATORY ANALYSIS		PERMEABILITY (cm/sec)
		SOIL TYPE	PID (ppm)	PCE (mg/kg)	TCE (mg/kg)	
41.75		Silt (ML)				
42		Silty sand to sandy silt (SM/ML)	3.4			
42.5			2.7			
43			2.7			
43.5		Silty Sand (SM)				
44			<1			
44.5						
45		Silty sand to sandy silt (SM/ML)				
45.5						
46						
46.5		Silty to clayey sand (SM/SC)	1.5			
47			5			
47.5			1			
48						
48.5						
49						
49.5						
50			<1			
50.5						
51						
51.5						
52						
52.5		Silty sand (SM)	1.2			
53		Sandy silt to silty sand (ML/SM)	2.6			
53.5						
54			1.2			
54.5		Silty sand (SM)	<1			
55			2			
55.5						
56						
56.25		Sandy silt to silty sand (ML/SM)				
56.5			1.9			
56.75						
57		Silty sand (SM)	2			
57.5		Sandy silt to silty very fine sand (ML)	5.2			
58						
58.5			1			
59			<1			
59.5						
60						
61		Silty sand (SM)				
62						
63						
64						
65						
66	Groundwater					

Yellow	Interval sent for laboratory analysis.
Blue	Undisturbed Shelby Tube sample interval.

Table 5-3
Field Screening and Analytical Summary - Area H Soils

PARAMETER[1]	INDUSTRIAL RSL[2]	LOCATION/SAMPLE DEPTH/SAMPLE DATE											
		SB-H-A10/5-6 11/05/09	SB-H-A11/7-7.5 11/05/09	SB-H-A12/8.0 11/05/09	SB-H-B10/10.0 11/05/09	SB-H-B11/7.0 11/05/09	SB-H-B11/26.0-26.5 11/05/09	SB-H-B13/7.5-8.0 11/05/09	SB-H-B13/11.5-12.0 11/05/09	SB-H-C11/9.0 11/05/09	SB-H-C12/3.5-4.0 11/05/09	SB-H-C12/8.5 11/05/09	SB-H-C13/5.8-6.3 11/05/09
PID Measurement	--	466	980	5.6	14.2	868	17.2	4.3	1.2	27.1	3,453	4,112	19.3
PCBs													
Aroclor-1242	25[3]	**5,900**	**866**	**0.403**	NA	**18,300**	NA	**0.538**	NA	**0.702**	**6230**	NA	NA
Aroclor-1254	25[3]	<1,220	<458	<0.119	NA	<6,350	NA	**0.738**	NA	<0.137	**2350**	NA	NA
PCBs - total	25[3]	**5,900**	**866**	**0.403**	NA	**18,300**	NA	**1.28**	NA	**0.702**	**8570**	NA	NA
VOCs													
Acetone	610,000	<38.3	<2.86	**0.0119 J**	**0.0212 J**	<127	**0.184 J**	<0.339	**0.0189 J**	<0.343	<155	<7.02	<0.35
Ethylbenzene	29	<3.83	<0.286	<0.0056	<0.006	<12.7	<0.031	<0.0339	<0.0052	<0.0343	**10.2 J**	<0.702	<0.035
Methylcyclohexane	--	<38.3	<2.86	<0.0056	<0.006	<127	<0.31	<0.339	<0.0052	<0.343	<155	<7.02	<0.35
Methylene chloride	54	**2.81 J**	**0.371 Jj**	<0.0056	<0.006	**8.44 J**	<0.062	<0.0679	<0.0052	<0.0686	**10.5 J**	**0.442 J**	<0.07
PCE	2.7	**524**	**67.3 j**	**0.0097**	**0.145**	**1,750**	**0.627**	**1.01**	**0.0039 J**	**1.04**	**1,890**	**107**	**0.757**
Toluene	46,000	<7.65	<0.573	<0.0056	<0.006	<25.4	<0.062	<0.0679	<0.0052	<0.0686	**24.7 J**	**1.18 J**	<0.07
TCE	14	**46.4**	**1.51 j**	**0.0073**	**0.0794**	**137**	**0.327**	**0.843**	**0.0059**	**1.4**	**938**	**21.5**	**0.752**
Xylenes, total	2,600	<11.5	<0.859	<0.0169	<0.018	<38.1	<0.093	<0.102	<0.0155	<0.103	**71.2**	**1.48 J**	<0.105

PARAMETER[1]	INDUSTRIAL RSL[2]	LOCATION/SAMPLE DEPTH/SAMPLE DATE						
		SB-H-D11/6-6.5 11/06/09	SB-H-D11/18-18.5 11/06/09	SB-H-D12/6.0 11/06/09	SB-H-E11/7-7.5 11/06/09	SB-H-E11/18-18.5 11/06/09	SB-H-Z10/4.5-5.0 11/06/09	SB-H-Z11/8-8.5 11/05/09
PID Measurement	--	1,404	25	26.7	8,857	14	8.1	9.9
PCBs								
Aroclor-1242	25[3]	**2,090**	NA	<126	**14,500**	**0.979**	NA	NA
Aroclor-1254	25[3]	<1,210	NA	**377**	<6,760	**0.16**	NA	NA
PCBs - total	25[3]	**2,090**	NA	**377**	**14,500**	**1.14**	NA	NA
VOCs								
Acetone	610,000	<60.5	**0.0558**	<0.788	<3.67	**0.0367**	**0.0443[4]**	**0.0131 J**
Ethylbenzene	29	<6.05	<0.0053	<0.0788	**1.31**	<0.0057	<0.0047[4]	<0.0054
Methylcyclohexane	--	<60.5	<0.0053	<0.788	**0.542 J**	<0.0057	<0.0047[4]	<0.0054
Methylene chloride	54	**4.96 J**	<0.0053	<0.158	**0.395 J**	<0.0057	<0.0047[4]	<0.0054
PCE	2.7	**601**	**0.211**	**13.2**	**72.7**	**0.029**	**0.0682[4]**	**0.0068**
Toluene	46,000	<12.1	<0.0053	<0.158	**3.91**	<0.0057	<0.0047[4]	<0.0054
TCE	14	**15.5**	**0.158**	**1.32**	**60.1**	**0.0422**	**0.0048[4]**	**0.0053 J**
Xylenes, total	2,600	<18.2	<0.0159	<0.236	**6.92**	<0.0172	<0.0141[4]	<0.0162

(1) Analytical results are reported in milligrams per kilogram (mg/kg) unless otherwise noted.

(2) Regional Screening Levels (RSL) for Chemical Contaminants at Superfund Sites (USEPA, 2009).

(3) Performance standard specified in the ROD (USEPA, 1990).

(4) Concentration reported is on a wet weight basis. Based upon the moisture content of nearby soils, estimated dry weight concentrations can be obtained by increasing the wet weight results by 18-33%.

J Concentration detected equal to or greater than the method detection limit but less than the reporting limit.

j Concentration considered an estimate based on data validation.

< The analyte was not detected at or above the reporting limit.

NA Not analyzed.

Bolding indicates constituent detection.

Shading indicates concentration exceeds comparison criteria.

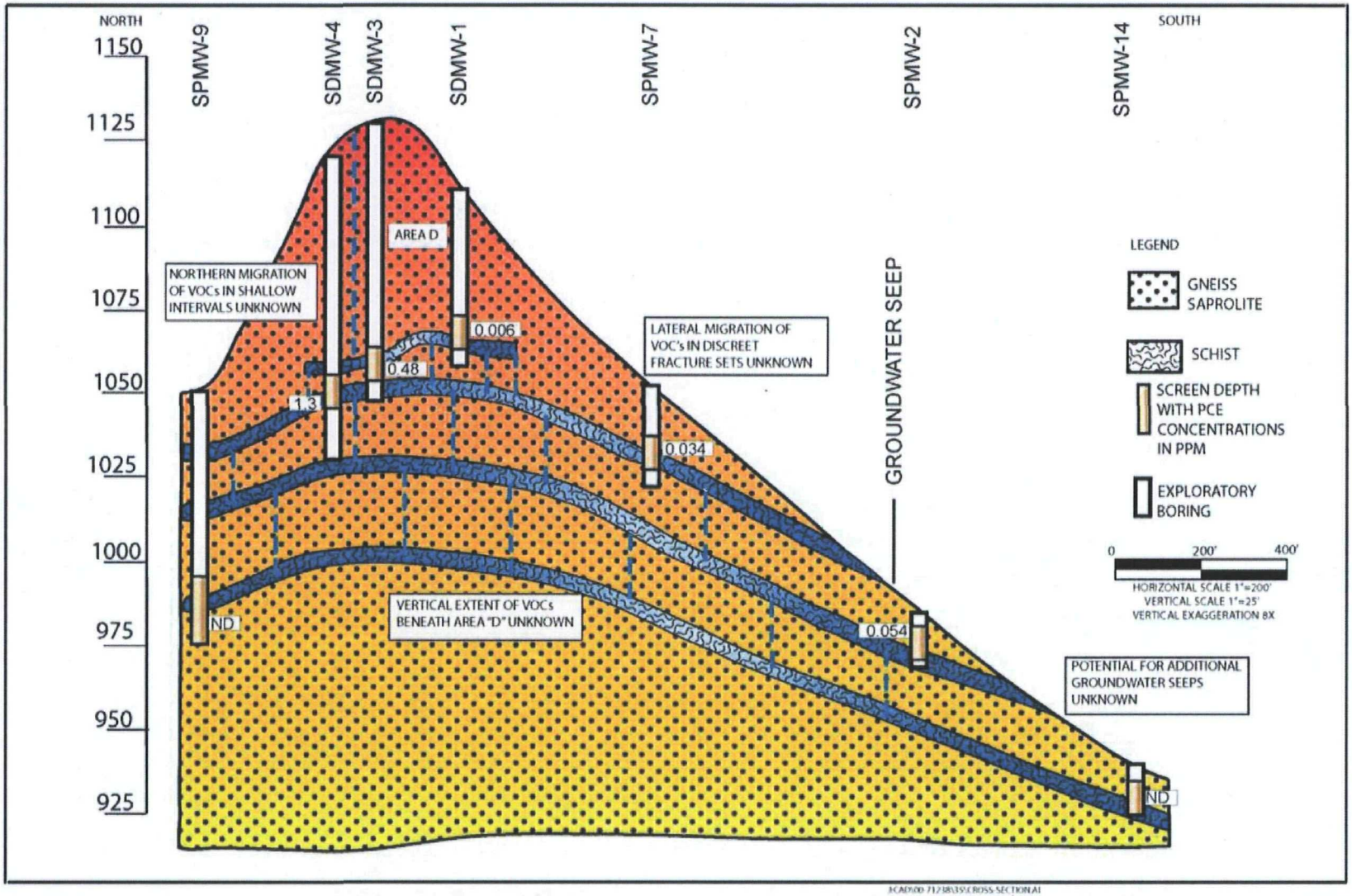
Sample depths in feet below ground surface.

Table 5-4
Groundwater Quality Area H

PARAMETER[1]	MCL[2]	SPMW-16 12/04/09
VOCs		
PCE	0.005	0.666
TCE	0.005	1.26
PCBs		
Aroclor-1242	--	0.00038 J
PCBs - total	0.0005	0.00038 J

(1) Analytical results are reported in milligrams per liter (mg/L) unless otherwise noted. Only parameters detected in at least one sample at a concentration above the reporting limit are included in this summary table.
(2) MCL; Drinking Water Standards and Health Advisories (USEPA, 2006).
J Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.
Bolding indicates constituent detection.
Shading indicates concentration exceeds comparison criteria.

Figures



J:\CAD\00-71238\35\CROSS SECTION.AI

RMT

SANGAMO PLANT SITE
PICKENS, SOUTH CAROLINA

FIGURE 1-1
HYDROSTRATIGRAPHIC MODEL

PROJECT NO.: 00-71238.40
DATE: 09/21/09
DRAWN BY: TLH
APPROVED BY: MAM

30 PATEWOOD DRIVE, SUITE 100
GREENVILLE, SC 29615-3535
PHONE 864.281.0030
FAX: 864.281.0288

I:\WPGVL\PJT\00-71238\40\00001\MISC FILES FOR 001 REPORT\FIGURE 1-1.DOCX

LEGEND

- SURFACE WATER LOCATION
- MONITORING WELL LOCATION
- TOPOGRAPHIC CONTOUR
- RI INVESTIGATION AREA

NOTES

AERIAL PHOTOGRAPHS AND TOPOGRAPHIC CONTOUR LINES OBTAINED FROM PICKENS COUNTY GIS DEPARTMENT, PICKENS COUNTY, SOUTH CAROLINA.

0 150 300
Feet

SANGAMO PLANT SITE
PICKENS, SOUTH CAROLINA

GROUNDWATER AND SURFACE WATER MONITORING POINTS IN VICINITY OF AREA D

DRAWN BY: TLH	SCALE AS NOTED	PROJECT NO.: 71238.40
CHECKED BY: LMC		DATE: SEPTEMBER 2009
APPROVED BY: MAM		FIGURE NO.: 1-2

RMT
Patewood Plaza One, Suite 100
30 Patewood Drive
Greenville, SC 29615-3535
Phone: 864-281-0030
FAX: 864-281-0288

Map Document: (P:\Hydro\71238\ArcGIS9\2009\AugustReport\SW-10.mxd)
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LEGEND

- EXTRACTION WELL WITH PDB SAMPLERS
- EXISTING EXTRACTION WELL (RW) OR MONITORING WELL (MW) LOCATION
- TOWN CREEK
- RI INVESTIGATION AREA
- TOPOGRAPHIC CONTOUR
- GROUNDWATER FLOW DIRECTION

NOTES

AERIAL PHOTOGRAPHS AND TOPOGRAPHIC CONTOUR LINES OBTAINED FROM PICKENS COUNTY GIS DEPARTMENT, PICKENS COUNTY, SOUTH CAROLINA.

0 300 600
Feet

SANGAMO PLANT SITE
PICKENS, SOUTH CAROLINA

SOURCE AREAS, EXTRACTION WELLS AND GROUNDWATER FLOW DIRECTION

DRAWN BY: TLH	SCALE AS NOTED	PROJECT NO.: 71238.40
CHECKED BY: LMC		DATE: SEPTEMBER 2009
APPROVED BY: MAM		FIGURE NO.: 2-1

RMT
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Map Document: (P:\Hydro\71238\ArcGIS9\2009\AugustReport\SourceAreas.mxd)
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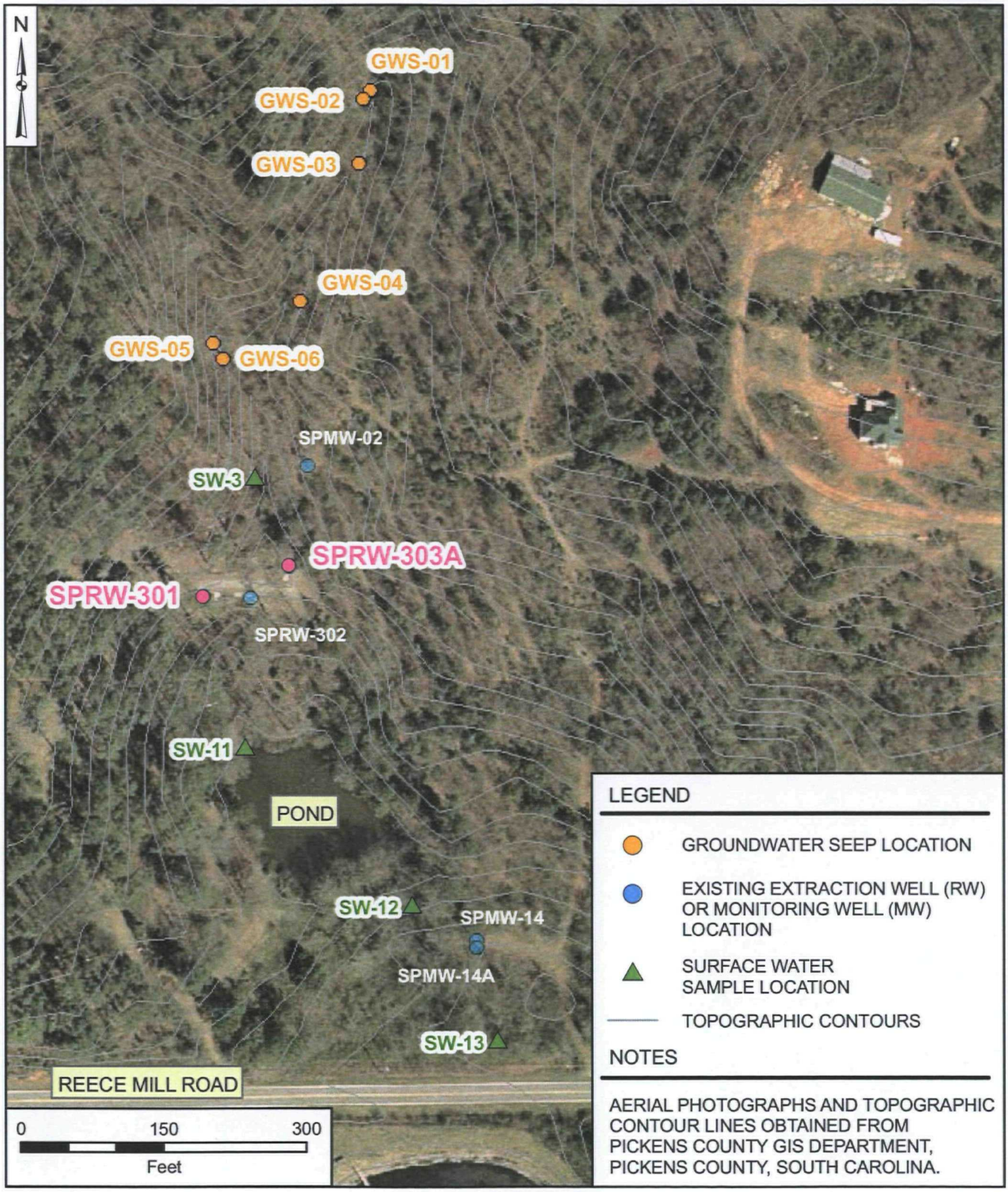

RMT
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30 Patewood Drive
Greenville, SC 29615-3535
Phone: 864-281-0030
FAX: 864-281-0288

SANGAMO PLANT SITE
PICKENS, SOUTH CAROLINA

FIGURE 3-1
GROUNDWATER, SEEP AND SURFACE WATER SAMPLE LOCATIONS

Drawn By:	TLH
Checked By:	LMC
Approved By:	MAM
Project No.:	00-71238.40
Date:	SEPTEMBER 2009

Map Document: (P:\Hydro\71238\ArcGIS9\2009\AugustReport\GWS&SW.mxd)
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Map Document: (P:\Hydro\71238\ArcGIS9\2010\SeepLineAndSamples_Fig3-2.mxd)
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LEGEND

- SEEP SAMPLE
- SEEP LINE LOCATION
- PROPERTY BOUNDARY

NOTES

AERIAL PHOTOGRAPHS, ELEVATION CONTOURS AND PROPERTY PARCEL BOUNDARIES OBTAINED FROM PICKENS COUNTY GIS DEPARTMENT, PICKENS COUNTY, SOUTH CAROLINA

0 150 300
Feet

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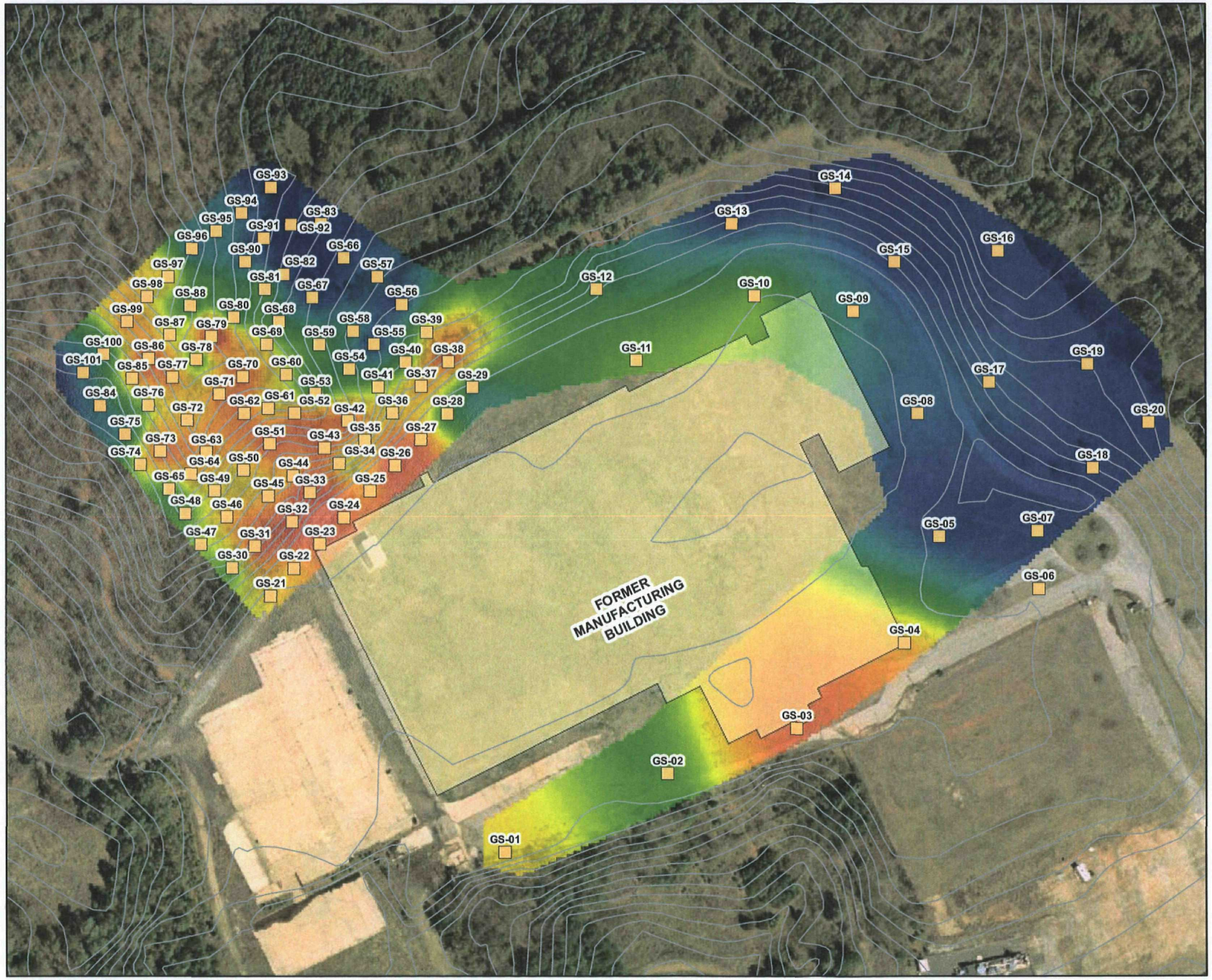
FAX: 864-281-0288

SANGAMO PLANT SITE
PICKENS, SOUTH CAROLINA

FIGURE 3-2
SEEP LINE AND SEEP SAMPLE LOCATION MAP

Drawn By:	TLH
Checked By:	TAT
Approved By:	LMC
Project No.:	71238.50 T2
Date:	JANUARY 2010



LEGEND

GORE SORBER LOCATION

TETRACHLOROETHENE CONCENTRATION

High : 146 PPM

Low : 0.01 PPM

TOPOGRAPHIC CONTOUR

FORMER MANUFACTURING BUILDING

NOTES

AERIAL PHOTOGRAPHS AND TOPOGRAPHIC CONTOUR LINES OBTAINED FROM PICKENS COUNTY GIS DEPARTMENT, PICKENS COUNTY, SOUTH CAROLINA.

0 150 300

Feet

SANGAMO PLANT SITE
PICKENS, SOUTH CAROLINA

GORE SORBER LOCATIONS AND RELATIVE TETRACHLOROETHENE CONCENTRATIONS

DRAWN BY: TLH	SCALE AS NOTED	PROJECT NO.: 71238.40
CHECKED BY: LMC		DATE: SEPTEMBER 2009
APPROVED BY: MAM		FIGURE NO.: 4-1

RMT
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FAX: 864-281-0288

Map Document: (P:\Hydro\71238\ArcGIS9\2009\AugustReport\GoreSorberSurvey_NearFormerFacility.mxd)
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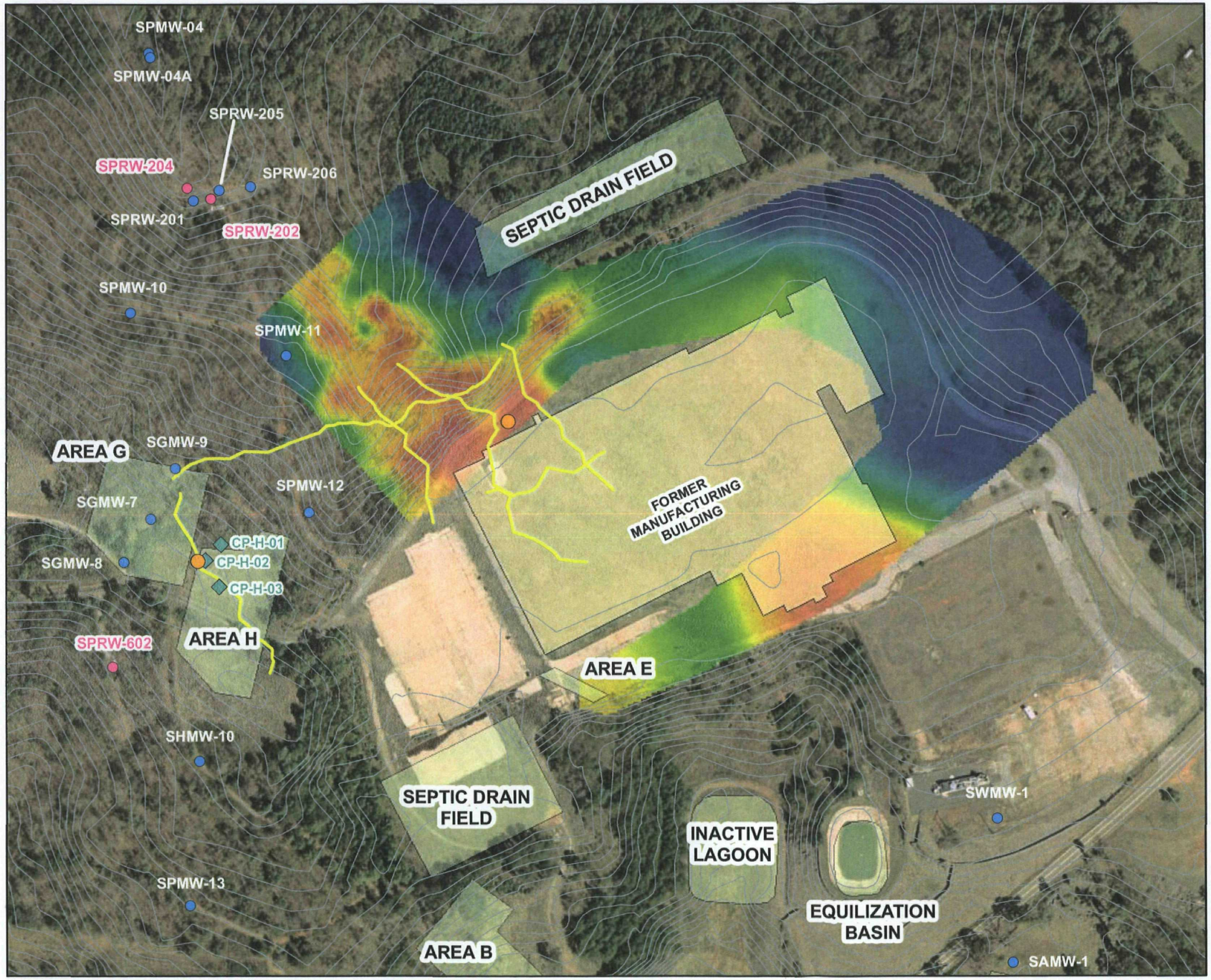

LEGEND

- EXTRACTION WELL WITH PDB SAMPLERS
- EXISTING RECOVERY WELL (RW) OR MONITORING WELL (MW) LOCATION
- CONTROL POINT
- PROPOSED MONITORING WELL

TETRACHLOROETHENE CONCENTRATION

High : 146 PPM

Low : 0.01 PPM

- RI INVESTIGATION AREA
- TOPOGRAPHIC CONTOUR
- FRACTURE FROM GEOPHYSICAL STUDY

NOTES

AERIAL PHOTOGRAPHS AND TOPOGRAPHIC CONTOUR LINES OBTAINED FROM PICKENS COUNTY GIS DEPARTMENT, PICKENS COUNTY, SOUTH CAROLINA.

0 200 400

Feet

SANGAMO PLANT SITE
PICKENS, SOUTH CAROLINA

PROPOSED MONITORING WELL LOCATIONS

DRAWN BY: TLH	SCALE AS NOTED	PROJECT NO.: 71238.40
CHECKED BY: LMC		DATE: SEPTEMBER 2009
APPROVED BY: MAM		FIGURE NO.: 4-2

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FAX: 864-281-0288

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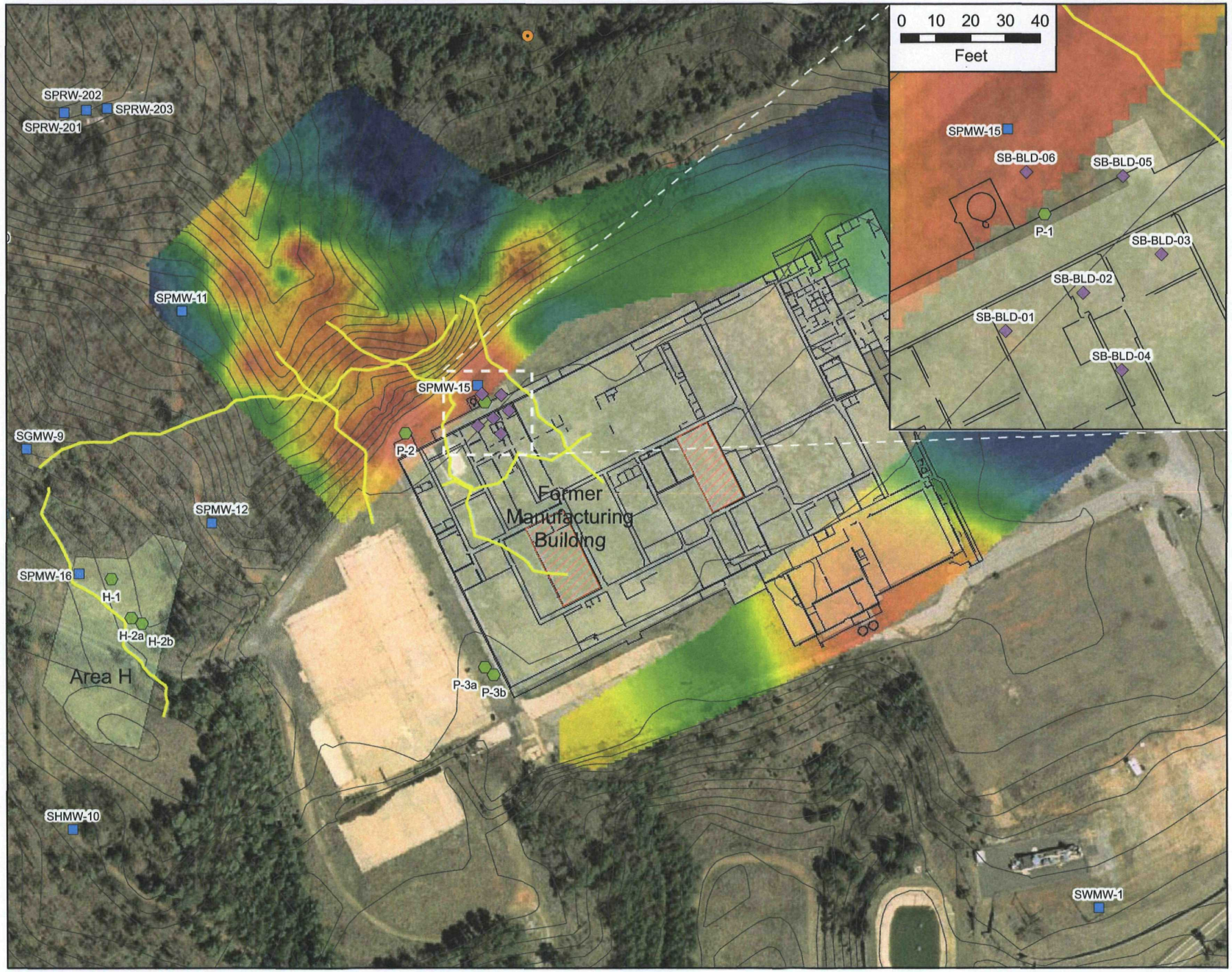

LEGEND

- Existing Monitoring Well or Recovery Well
- Proposed Well Location
- SVE Pilot Well Approximate Location
- Soil Boring Location - November 2009
- Topographic Contour
- Schlumberger Water Services Interpreted Fault Line

PCE (ug) on Gore Sorber

100

0.01

NOTES

AERIAL PHOTOGRAPHS AND ELEVATION CONTOURS OBTAINED FROM PICKENS COUNTY GIS DEPARTMENT, PICKENS COUNTY, SOUTH CAROLINA

0 150 300

Feet

SANGAMO, OU-1
PICKENS, SOUTH CAROLINA

RESIDUAL VOC SOURCE INVESTIGATION
FOURTH QUARTER 2009

DRAWN BY: TLH	SCALE AS NOTED	PROJECT NO.: 71238.40
CHECKED BY: LMC		DATE: JANUARY 2010
APPROVED BY: MAM		FIGURE NO.: 4-3

RMT
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Greenville, SC 29615-3535
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FAX: 864-281-0288

Map Document: (P:\Hydro\71238\ArcGIS9\2010\SPMW-15Locale_Fig4-3.mxd)
1/26/2010 – 3:36:30 PM

LEGEND

- CONTROL POINT - JUNE 2009
- PILOT SVE WELL LOCATION - JULY 2008
- EXISTING GROUNDWATER MONITORING WELL OR RECOVERY WELL
- SOIL GAS CONTOUR (PPM) - JUNE 2007
- TOPOGRAPHIC CONTOUR
- INVESTIGATION AREA

NOTES

AERIAL PHOTOGRAPHS AND TOPOGRAPHIC CONTOUR LINES OBTAINED FROM PICKENS COUNTY GIS DEPARTMENT, PICKENS COUNTY, SOUTH CAROLINA.

0 100 200

Feet

SANGAMO PLANT SITE
PICKENS, SOUTH CAROLINA

LOCATION OF CONTROL POINTS

DRAWN BY: TLH	SCALE AS NOTED	PROJECT NO.: 71238.40
CHECKED BY: LMC		DATE: SEPTEMBER 2009
APPROVED BY: MAM		FIGURE NO.: 5-1

RMT
Patewood Plaza One, Suite 100
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Greenville, SC 29615-3535
Phone: 864-281-0030
FAX: 864-281-0288

Map Document: (P:\Hydro\71238\ArcGIS9\2009\AugustReport\ControlPointLocations.mxd)
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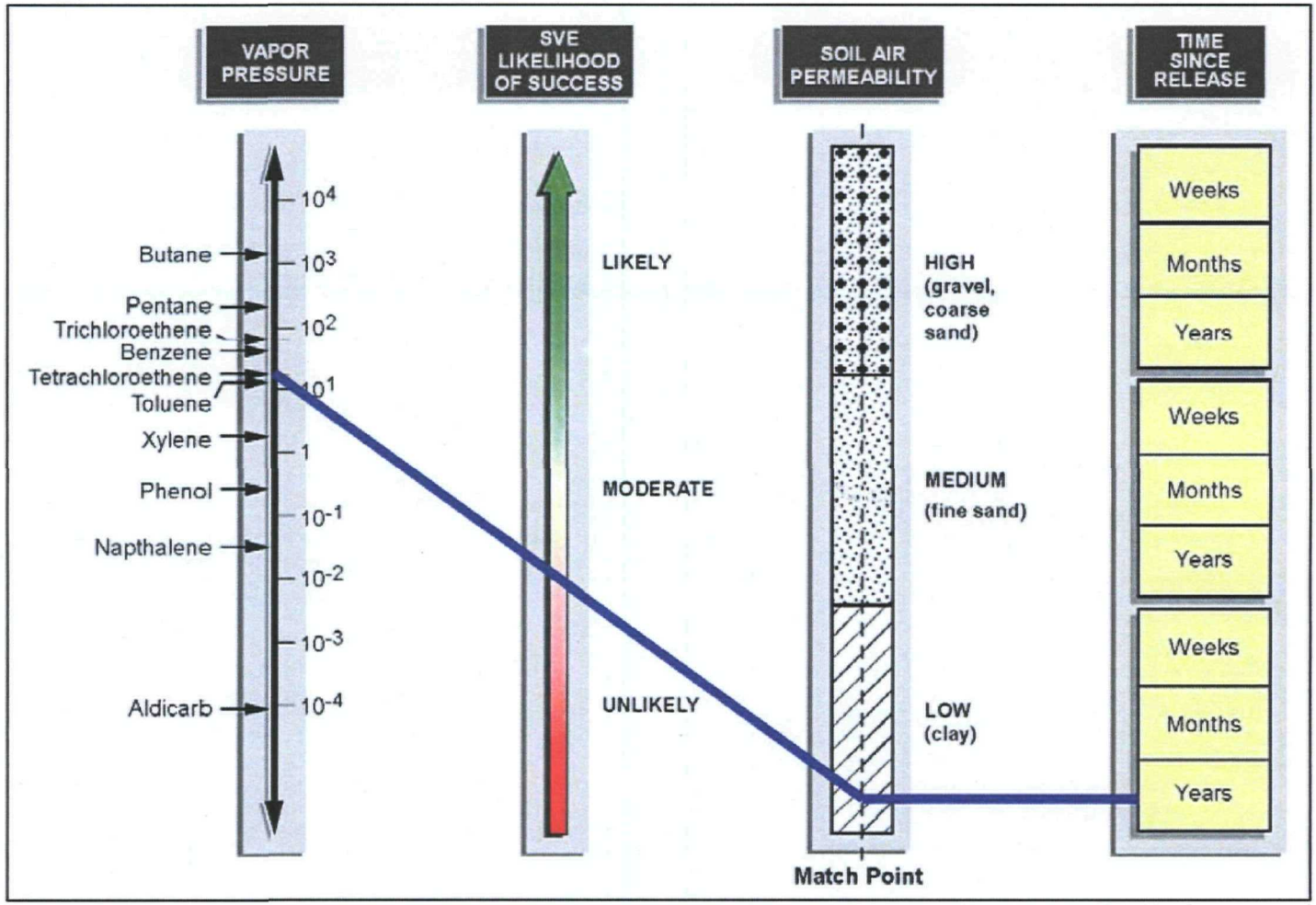

NOTE: NOMOGRAPH OBTAINED FROM SCHLUMBERGER'S TECHNICAL GUIDANCE DOUMENT, *"DESIGN, INSTALLATION, AND OPERATION OF SOIL VAPOR EXTRACTION (SVE) SYSTEMS.*

RMT	**SANGAMO PLANT SITE** **PICKENS, SOUTH CAROLINA** **FIGURE 5-2** **EVALUATION OF SVE APPLICABILITY**	PROJECT NO.: 00-71238.40 DATE: 09/21/09 DRAWN BY: LMC APPROVED BY: MAM	*30 PATEWOOD DRIVE, SUITE 100* *GREENVILLE, SC 29615-3535* PHONE 864.281.0030 FAX: 864.281.0288

I:\WPGVL\PJT\00-71238\40\00001\MISC FILES FOR 001 REPORT\FIGURE 5-2.DOCX

LEGEND

- Monitoring Well Installed November 2009
- Soil Investigation Grid Location - VOCs < Industrial Screeening Level and/or PID measurements <100 ppm
- Soil Investigation Grid Location - VOCs > Industrial Screeening Level
- Soil Investigation Grid Location - No Sample Collected
- Control Point - June 2009
- Control Point - June 2009 - VOCs > Industrial Screeening Level
- Existing SVE Well Approximate Location
- Existing Monitoring Well or Recovery Well
- Tree Line
- Underground Power Line
- Wood Pile
- Topographic Contour
- Schlumberger Water Services Interpreted Fault Line
- Investigation Area

0 40 80

Feet

SANGAMO, OU-1
PICKENS, SOUTH CAROLINA

AREA H SOIL INVESTIGATION GRID

DRAWN BY: TLH	SCALE AS NOTED	PROJECT NO.: 71238.40
CHECKED BY: LMC		DATE: JANUARY 2010
APPROVED BY: MAM		FIGURE NO.: 5-3

RMT
Patewood Plaza One, Suite 100
30 Patewood Drive
Greenville, SC 29615-3535
Phone: 864-281-0030
FAX: 864-281-0288

Map Document: (P:\Hydro\71238\ArcGIS9\2010\AreaH_SoilGrid_Fig5-3.mxd)
1/21/2010 – 2:37:47 PM

Appendix A
Analytical Laboratory Reports

Samples Collected 04/17/09

Pace Analytical
www.pacelabs.com

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

April 30, 2009

Mark Bailey
RMT Greenville
30 Patewood Drive
Suite100, Patewood Plaza One
Greenville, SC 296153535

RE: Project: 71238.40 SCHLUMBERGER
Pace Project No.: 4016258

Dear Mark Bailey:
Enclosed are the analytical results for sample(s) received by the laboratory on April 18, 2009. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Kang Khang

kang.khang@pacelabs.com
Project Manager

Enclosures

cc: Terry Hertz, RMT GREENVILLE
Mark Miesfeldt, RMT Greenville

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ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical
www.pacelabs.com

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

TEMP-OK ; HT-OK, CoC -SIGNED
SURR -VOC SURR RECS OK
-PCB -1 SURR LOW REC IN SW-10
-1 " " " " MBLK
-2 " " " " LCSD
-1 " " " " LCS

April 30, 2009

Mark Bailey
RMT Greenville
30 Patewood Drive
Suite100, Patewood Plaza One
Greenville, SC 296153535

DUE TO LOW SURR RECS, ALL PCB RESULTS FOR SW-10 ARE FLAGGED "UJ": PCB-1016, -1221, -1232, -1242, 1248, 1254, -1260 AND -TOTAL.

RE: Project: 71238.40 SCHLUMBERGER
Pace Project No.: 4016258

MBLKS - CLEAN
MS/MSD - VOC-BATCH QC

Dear Mark Bailey:
Enclosed are the analytical results for sample(s) received by the laboratory on April 18, 2009. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

LCS/LCSD - RECS & RPDS OK EXCEPT FOR HIGH 2-HEXANONE REC ON 2ND LCS. THIS ANALYTE NOT DETECTED. NO FLAGS ADDED.

If you have any questions concerning this report, please feel free to contact me.

TBLK-01 HAS TOLUENE AT 2.0 ug/L NO FLAGS ADDED.

Sincerely,

Kang Khang

kang.khang@pacelabs.com
Project Manager

FOR SAMPLES GWS-02, GWS-03, GWS-04, GWS-05 AND GWS-06 : - NDs GET "UJ"
- DETECTS GET "J-"
BECAUSE OF HEADSPACE IN VIAL.

Enclosures

cc: Terry Hertz, RMT GREENVILLE
Mark Miesfeldt, RMT Greenville

TLH PERSONAL COMMUNICATION W/ KANG KHANG AT LAB CONFIRMED THAT GWS-06 ALSO HAD HEADSPACE AFTER SCREENING ANALYSIS. 5 mL REMOVED FROM GWS-02, -03, -04, -05 & -06 FOR SCREENING, THEN THESE SAME VIALS USED FOR FORMAL ANALYSIS.

TLH 4/30/09

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CERTIFICATIONS

Project: 71238.40 SCHLUMBERGER
Pace Project No.: 4016258

Green Bay Certification IDs

Wisconsin DATCP Certification #: 105-444
Wisconsin DATCP Certification #: 105-444
Wisconsin Certification #: 405132750
Wisconsin Certification #: 405132750
South Carolina Certification #: 83006001
South Carolina Certification #: 83006001
North Dakota Certification #: R-200
North Dakota Certification #: R-150
North Carolina Certification #: 503
North Carolina Certification #: 503
New York Certification #: 11887
New York Certification #: 11888
Minnesota Certification #: 055-999-334
Minnesota Certification #: 055-999-334
Louisiana Certification #: 04169
Louisiana Certification #: 04168
Kentucky Certification #: 83
Kentucky Certification #: 82
Illinois Certification #: 200051
Illinois Certification #: 200050
Florida/NELAP Certification #: E87951
Florida/NELAP Certification #: E87948

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SAMPLE SUMMARY

Project: 71238.40 SCHLUMBERGER
Pace Project No.: 4016258

Lab ID	Sample ID	Matrix	Date Collected	Date Received
4016258001	SW-10	Water	04/17/09 11:07	04/18/09 09:30
4016258002	GWS-01	Water	04/17/09 11:50	04/18/09 09:30
4016258003	GWS-02	Water	04/17/09 11:55	04/18/09 09:30
4016258004	GWS-03	Water	04/17/09 12:00	04/18/09 09:30
4016258005	GWS-04	Water	04/17/09 12:05	04/18/09 09:30
4016258006	GWS-05	Water	04/17/09 12:10	04/18/09 09:30
4016258007	GWS-06	Water	04/17/09 12:15	04/18/09 09:30
4016258008	TBLK-01	Water	04/17/09 00:00	04/18/09 09:30

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SAMPLE ANALYTE COUNT

Project: 71238.40 SCHLUMBERGER
Pace Project No.: 4016258

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
4016258001	SW-10	EPA 8082	BDS	10	PASI-G
		EPA 8260	HNW	36	PASI-G
4016258002	GWS-01	EPA 8260	HNW	36	PASI-G
4016258003	GWS-02	EPA 8260	SMT	36	PASI-G
4016258004	GWS-03	EPA 8260	SMT	36	PASI-G
4016258005	GWS-04	EPA 8260	SMT	36	PASI-G
4016258006	GWS-05	EPA 8260	SMT	36	PASI-G
4016258007	GWS-06	EPA 8260	SMT	36	PASI-G
4016258008	TBLK-01	EPA 8260	HNW	36	PASI-G

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PROJECT NARRATIVE

Project: 71238.40 SCHLUMBERGER
Pace Project No.: 4016258

Method: **EPA 8082**
Description: 8082 GCS PCB
Client: RMT - GREENVILLE
Date: April 30, 2009

General Information:
1 sample was analyzed for EPA 8082. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3510 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

QC Batch: OEXT/4077

S0: Surrogate recovery outside laboratory control limits.
- SW-10 (Lab ID: 4016258001)
  - Tetrachloro-m-xylene (S)

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: GCSV/2652

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: 71238.40 SCHLUMBERGER
Pace Project No.: 4016258

Method: **EPA 8082**
Description: 8082 GCS PCB
Client: RMT - GREENVILLE
Date: April 30, 2009

Analyte Comments:

QC Batch: OEXT/4077

2j: Surrogate fails South Carolina criteria low for recovery but passes laboratory generated limits.

- BLANK (Lab ID: 148406)
  - Tetrachloro-m-xylene (S)
- LCS (Lab ID: 148407)
  - Tetrachloro-m-xylene (S)
- LCSD (Lab ID: 148408)
  - Decachlorobiphenyl (S)
  - Tetrachloro-m-xylene (S)

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PROJECT NARRATIVE

Project: 71238.40 SCHLUMBERGER
Pace Project No.: 4016258

Method: **EPA 8260**
Description: 8260 MSV
Client: RMT - GREENVILLE
Date: April 30, 2009

General Information:
8 samples were analyzed for EPA 8260. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

QC Batch: MSV/4247

L0: Analyte recovery in the laboratory control sample (LCS) was outside QC limits.
- LCS (Lab ID: 148334)
  - 2-Hexanone

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

Analyte Comments:

QC Batch: MSV/4247

1j: Results are from sample aliquot taken from VOA vial with headspace due to insufficient volume.
- GWS-02 (Lab ID: 4016258003)
  - Dibromofluoromethane (S)
- GWS-03 (Lab ID: 4016258004)
  - Dibromofluoromethane (S)

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PROJECT NARRATIVE

Project: 71238.40 SCHLUMBERGER
Pace Project No.: 4016258

Method: **EPA 8260**
Description: 8260 MSV
Client: RMT - GREENVILLE
Date: April 30, 2009

Analyte Comments:

QC Batch: MSV/4247

1j: Results are from sample aliquot taken from VOA vial with headspace due to insufficient volume.
- GWS-04 (Lab ID: 4016258005)
  - Dibromofluoromethane (S)
- GWS-05 (Lab ID: 4016258006)
  - Dibromofluoromethane (S)

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: 71238.40 SCHLUMBERGER
Pace Project No.: 4016258

Sample: SW-10 **Lab ID: 4016258001** Collected: 04/17/09 11:07 Received: 04/18/09 09:30 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3510								
PCB-1016 (Aroclor 1016)	ND	ug/L	0.47	0.11	1	04/22/09 08:22	04/24/09 00:52	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/L	0.47	0.11	1	04/22/09 08:22	04/24/09 00:52	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/L	0.47	0.11	1	04/22/09 08:22	04/24/09 00:52	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/L	0.47	0.11	1	04/22/09 08:22	04/24/09 00:52	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/L	0.47	0.11	1	04/22/09 08:22	04/24/09 00:52	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/L	0.47	0.11	1	04/22/09 08:22	04/24/09 00:52	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/L	0.47	0.11	1	04/22/09 08:22	04/24/09 00:52	11096-82-5	
PCB, Total	ND	ug/L	0.47	0.11	1	04/22/09 08:22	04/24/09 00:52	1336-36-3	
Tetrachloro-m-xylene (S)	63	%	70-130		1	04/22/09 08:22	04/24/09 00:52	877-09-8	S0
Decachlorobiphenyl (S)	82	%	70-130		1	04/22/09 08:22	04/24/09 00:52	2051-24-3	
8260 MSV	Analytical Method: EPA 8260								
1,1,1-Trichloroethane	ND	ug/L	1.0	0.90	1		04/21/09 13:57	71-55-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.20	1		04/21/09 13:57	79-34-5	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.42	1		04/21/09 13:57	79-00-5	
1,1-Dichloroethane	ND	ug/L	1.0	0.75	1		04/21/09 13:57	75-34-3	
1,1-Dichloroethene	ND	ug/L	1.0	0.57	1		04/21/09 13:57	75-35-4	
1,2-Dichloroethane	ND	ug/L	1.0	0.36	1		04/21/09 13:57	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	2.0	1.4	1		04/21/09 13:57	540-59-0	
1,2-Dichloropropane	ND	ug/L	1.0	0.49	1		04/21/09 13:57	78-87-5	
2-Butanone (MEK)	ND	ug/L	20.0	4.3	1		04/21/09 13:57	78-93-3	
2-Hexanone	ND	ug/L	5.0	2.0	1		04/21/09 13:57	591-78-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1.2	1		04/21/09 13:57	108-10-1	
Acetone	ND	ug/L	20.0	5.0	1		04/21/09 13:57	67-64-1	
Benzene	ND	ug/L	1.0	0.41	1		04/21/09 13:57	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.56	1		04/21/09 13:57	75-27-4	
Bromoform	ND	ug/L	1.0	0.94	1		04/21/09 13:57	75-25-2	
Bromomethane	ND	ug/L	1.0	0.91	1		04/21/09 13:57	74-83-9	
Carbon disulfide	ND	ug/L	1.0	0.66	1		04/21/09 13:57	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.49	1		04/21/09 13:57	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.41	1		04/21/09 13:57	108-90-7	
Chloroethane	ND	ug/L	1.0	0.97	1		04/21/09 13:57	75-00-3	
Chloroform	ND	ug/L	5.0	1.3	1		04/21/09 13:57	67-66-3	
Chloromethane	ND	ug/L	1.0	0.24	1		04/21/09 13:57	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	0.81	1		04/21/09 13:57	124-48-1	
Ethylbenzene	ND	ug/L	1.0	0.54	1		04/21/09 13:57	100-41-4	
Methylene Chloride	ND	ug/L	1.0	0.43	1		04/21/09 13:57	75-09-2	
Styrene	ND	ug/L	1.0	0.86	1		04/21/09 13:57	100-42-5	
Tetrachloroethene	ND	ug/L	1.0	0.45	1		04/21/09 13:57	127-18-4	
Toluene	ND	ug/L	1.0	0.67	1		04/21/09 13:57	108-88-3	
Trichloroethene	ND	ug/L	1.0	0.48	1		04/21/09 13:57	79-01-6	
Vinyl chloride	ND	ug/L	1.0	0.18	1		04/21/09 13:57	75-01-4	
Xylene (Total)	ND	ug/L	3.0	2.6	1		04/21/09 13:57	1330-20-7	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.20	1		04/21/09 13:57	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.19	1		04/21/09 13:57	10061-02-6	
4-Bromofluorobenzene (S)	96	%	70-130		1		04/21/09 13:57	460-00-4	

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ANALYTICAL RESULTS

Project: 71238.40 SCHLUMBERGER
Pace Project No.: 4016258

Sample: SW-10 **Lab ID: 4016258001** Collected: 04/17/09 11:07 Received: 04/18/09 09:30 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Dibromofluoromethane (S)	98	%	70-130		1		04/21/09 13:57	1868-53-7	
Toluene-d8 (S)	100	%	70-130		1		04/21/09 13:57	2037-26-5	

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ANALYTICAL RESULTS

Project: 71238.40 SCHLUMBERGER
Pace Project No.: 4016258

Sample: GWS-01 **Lab ID: 4016258002** Collected: 04/17/09 11:50 Received: 04/18/09 09:30 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,1-Trichloroethane	ND	ug/L	1.0	0.90	1		04/21/09 14:20	71-55-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.20	1		04/21/09 14:20	79-34-5	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.42	1		04/21/09 14:20	79-00-5	
1,1-Dichloroethane	ND	ug/L	1.0	0.75	1		04/21/09 14:20	75-34-3	
1,1-Dichloroethene	ND	ug/L	1.0	0.57	1		04/21/09 14:20	75-35-4	
1,2-Dichloroethane	ND	ug/L	1.0	0.36	1		04/21/09 14:20	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	2.0	1.4	1		04/21/09 14:20	540-59-0	
1,2-Dichloropropane	ND	ug/L	1.0	0.49	1		04/21/09 14:20	78-87-5	
2-Butanone (MEK)	ND	ug/L	20.0	4.3	1		04/21/09 14:20	78-93-3	
2-Hexanone	ND	ug/L	5.0	2.0	1		04/21/09 14:20	591-78-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1.2	1		04/21/09 14:20	108-10-1	
Acetone	ND	ug/L	20.0	5.0	1		04/21/09 14:20	67-64-1	
Benzene	ND	ug/L	1.0	0.41	1		04/21/09 14:20	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.56	1		04/21/09 14:20	75-27-4	
Bromoform	ND	ug/L	1.0	0.94	1		04/21/09 14:20	75-25-2	
Bromomethane	ND	ug/L	1.0	0.91	1		04/21/09 14:20	74-83-9	
Carbon disulfide	ND	ug/L	1.0	0.66	1		04/21/09 14:20	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.49	1		04/21/09 14:20	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.41	1		04/21/09 14:20	108-90-7	
Chloroethane	ND	ug/L	1.0	0.97	1		04/21/09 14:20	75-00-3	
Chloroform	ND	ug/L	5.0	1.3	1		04/21/09 14:20	67-66-3	
Chloromethane	ND	ug/L	1.0	0.24	1		04/21/09 14:20	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	0.81	1		04/21/09 14:20	124-48-1	
Ethylbenzene	ND	ug/L	1.0	0.54	1		04/21/09 14:20	100-41-4	
Methylene Chloride	ND	ug/L	1.0	0.43	1		04/21/09 14:20	75-09-2	
Styrene	ND	ug/L	1.0	0.86	1		04/21/09 14:20	100-42-5	
Tetrachloroethene	**4.6**	ug/L	1.0	0.45	1		04/21/09 14:20	127-18-4	
Toluene	ND	ug/L	1.0	0.67	1		04/21/09 14:20	108-88-3	
Trichloroethene	**10.3**	ug/L	1.0	0.48	1		04/21/09 14:20	79-01-6	
Vinyl chloride	ND	ug/L	1.0	0.18	1		04/21/09 14:20	75-01-4	
Xylene (Total)	ND	ug/L	3.0	2.6	1		04/21/09 14:20	1330-20-7	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.20	1		04/21/09 14:20	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.19	1		04/21/09 14:20	10061-02-6	
4-Bromofluorobenzene (S)	93	%	70-130		1		04/21/09 14:20	460-00-4	
Dibromofluoromethane (S)	97	%	70-130		1		04/21/09 14:20	1868-53-7	
Toluene-d8 (S)	100	%	70-130		1		04/21/09 14:20	2037-26-5	

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ANALYTICAL RESULTS

Project: 71238.40 SCHLUMBERGER
Pace Project No.: 4016258

Sample: GWS-02 **Lab ID: 4016258003** Collected: 04/17/09 11:55 Received: 04/18/09 09:30 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,1-Trichloroethane	ND	ug/L	1.0	0.90	1		04/22/09 10:32	71-55-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.20	1		04/22/09 10:32	79-34-5	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.42	1		04/22/09 10:32	79-00-5	
1,1-Dichloroethane	ND	ug/L	1.0	0.75	1		04/22/09 10:32	75-34-3	
1,1-Dichloroethene	ND	ug/L	1.0	0.57	1		04/22/09 10:32	75-35-4	
1,2-Dichloroethane	ND	ug/L	1.0	0.36	1		04/22/09 10:32	107-06-2	
1,2-Dichloroethene (Total)	**1.6J**	ug/L	2.0	1.4	1		04/22/09 10:32	540-59-0	
1,2-Dichloropropane	ND	ug/L	1.0	0.49	1		04/22/09 10:32	78-87-5	
2-Butanone (MEK)	ND	ug/L	20.0	4.3	1		04/22/09 10:32	78-93-3	
2-Hexanone	ND	ug/L	5.0	2.0	1		04/22/09 10:32	591-78-6	L1
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1.2	1		04/22/09 10:32	108-10-1	
Acetone	**5.0J**	ug/L	20.0	5.0	1		04/22/09 10:32	67-64-1	
Benzene	ND	ug/L	1.0	0.41	1		04/22/09 10:32	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.56	1		04/22/09 10:32	75-27-4	
Bromoform	ND	ug/L	1.0	0.94	1		04/22/09 10:32	75-25-2	
Bromomethane	ND	ug/L	1.0	0.91	1		04/22/09 10:32	74-83-9	
Carbon disulfide	ND	ug/L	1.0	0.66	1		04/22/09 10:32	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.49	1		04/22/09 10:32	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.41	1		04/22/09 10:32	108-90-7	
Chloroethane	ND	ug/L	1.0	0.97	1		04/22/09 10:32	75-00-3	
Chloroform	ND	ug/L	5.0	1.3	1		04/22/09 10:32	67-66-3	
Chloromethane	ND	ug/L	1.0	0.24	1		04/22/09 10:32	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	0.81	1		04/22/09 10:32	124-48-1	
Ethylbenzene	ND	ug/L	1.0	0.54	1		04/22/09 10:32	100-41-4	
Methylene Chloride	ND	ug/L	1.0	0.43	1		04/22/09 10:32	75-09-2	
Styrene	ND	ug/L	1.0	0.86	1		04/22/09 10:32	100-42-5	
Tetrachloroethene	**3.2**	ug/L	1.0	0.45	1		04/22/09 10:32	127-18-4	
Toluene	ND	ug/L	1.0	0.67	1		04/22/09 10:32	108-88-3	
Trichloroethene	**8.7**	ug/L	1.0	0.48	1		04/22/09 10:32	79-01-6	
Vinyl chloride	ND	ug/L	1.0	0.18	1		04/22/09 10:32	75-01-4	
Xylene (Total)	ND	ug/L	3.0	2.6	1		04/22/09 10:32	1330-20-7	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.20	1		04/22/09 10:32	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.19	1		04/22/09 10:32	10061-02-6	
4-Bromofluorobenzene (S)	96	%	70-130		1		04/22/09 10:32	460-00-4	
Dibromofluoromethane (S)	99	%	70-130		1		04/22/09 10:32	1868-53-7	1j
Toluene-d8 (S)	102	%	70-130		1		04/22/09 10:32	2037-26-5	

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ANALYTICAL RESULTS

Project: 71238.40 SCHLUMBERGER
Pace Project No.: 4016258

Sample: GWS-03 **Lab ID: 4016258004** Collected: 04/17/09 12:00 Received: 04/18/09 09:30 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,1-Trichloroethane	ND	ug/L	1.0	0.90	1		04/22/09 10:56	71-55-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.20	1		04/22/09 10:56	79-34-5	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.42	1		04/22/09 10:56	79-00-5	
1,1-Dichloroethane	ND	ug/L	1.0	0.75	1		04/22/09 10:56	75-34-3	
1,1-Dichloroethene	ND	ug/L	1.0	0.57	1		04/22/09 10:56	75-35-4	
1,2-Dichloroethane	ND	ug/L	1.0	0.36	1		04/22/09 10:56	107-06-2	
1,2-Dichloroethene (Total)	**16.9**	ug/L	2.0	1.4	1		04/22/09 10:56	540-59-0	
1,2-Dichloropropane	ND	ug/L	1.0	0.49	1		04/22/09 10:56	78-87-5	
2-Butanone (MEK)	ND	ug/L	20.0	4.3	1		04/22/09 10:56	78-93-3	
2-Hexanone	ND	ug/L	5.0	2.0	1		04/22/09 10:56	591-78-6	L1
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1.2	1		04/22/09 10:56	108-10-1	
Acetone	**14.5J**	ug/L	20.0	5.0	1		04/22/09 10:56	67-64-1	
Benzene	ND	ug/L	1.0	0.41	1		04/22/09 10:56	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.56	1		04/22/09 10:56	75-27-4	
Bromoform	ND	ug/L	1.0	0.94	1		04/22/09 10:56	75-25-2	
Bromomethane	ND	ug/L	1.0	0.91	1		04/22/09 10:56	74-83-9	
Carbon disulfide	ND	ug/L	1.0	0.66	1		04/22/09 10:56	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.49	1		04/22/09 10:56	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.41	1		04/22/09 10:56	108-90-7	
Chloroethane	ND	ug/L	1.0	0.97	1		04/22/09 10:56	75-00-3	
Chloroform	ND	ug/L	5.0	1.3	1		04/22/09 10:56	67-66-3	
Chloromethane	**0.29J**	ug/L	1.0	0.24	1		04/22/09 10:56	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	0.81	1		04/22/09 10:56	124-48-1	
Ethylbenzene	ND	ug/L	1.0	0.54	1		04/22/09 10:56	100-41-4	
Methylene Chloride	ND	ug/L	1.0	0.43	1		04/22/09 10:56	75-09-2	
Styrene	ND	ug/L	1.0	0.86	1		04/22/09 10:56	100-42-5	
Tetrachloroethene	**1.8**	ug/L	1.0	0.45	1		04/22/09 10:56	127-18-4	
Toluene	**17.1**	ug/L	1.0	0.67	1		04/22/09 10:56	108-88-3	
Trichloroethene	**5.2**	ug/L	1.0	0.48	1		04/22/09 10:56	79-01-6	
Vinyl chloride	**12.0**	ug/L	1.0	0.18	1		04/22/09 10:56	75-01-4	
Xylene (Total)	ND	ug/L	3.0	2.6	1		04/22/09 10:56	1330-20-7	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.20	1		04/22/09 10:56	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.19	1		04/22/09 10:56	10061-02-6	
4-Bromofluorobenzene (S)	98	%	70-130		1		04/22/09 10:56	460-00-4	
Dibromofluoromethane (S)	100	%	70-130		1		04/22/09 10:56	1868-53-7	1j
Toluene-d8 (S)	102	%	70-130		1		04/22/09 10:56	2037-26-5	

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ANALYTICAL RESULTS

Project: 71238.40 SCHLUMBERGER
Pace Project No.: 4016258

Sample: GWS-04 **Lab ID: 4016258005** Collected: 04/17/09 12:05 Received: 04/18/09 09:30 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,1-Trichloroethane	ND	ug/L	1.0	0.90	1		04/22/09 11:19	71-55-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.20	1		04/22/09 11:19	79-34-5	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.42	1		04/22/09 11:19	79-00-5	
1,1-Dichloroethane	ND	ug/L	1.0	0.75	1		04/22/09 11:19	75-34-3	
1,1-Dichloroethene	ND	ug/L	1.0	0.57	1		04/22/09 11:19	75-35-4	
1,2-Dichloroethane	ND	ug/L	1.0	0.36	1		04/22/09 11:19	107-06-2	
1,2-Dichloroethene (Total)	**1.6J**	ug/L	2.0	1.4	1		04/22/09 11:19	540-59-0	
1,2-Dichloropropane	ND	ug/L	1.0	0.49	1		04/22/09 11:19	78-87-5	
2-Butanone (MEK)	ND	ug/L	20.0	4.3	1		04/22/09 11:19	78-93-3	
2-Hexanone	ND	ug/L	5.0	2.0	1		04/22/09 11:19	591-78-6	L1
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1.2	1		04/22/09 11:19	108-10-1	
Acetone	ND	ug/L	20.0	5.0	1		04/22/09 11:19	67-64-1	
Benzene	ND	ug/L	1.0	0.41	1		04/22/09 11:19	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.56	1		04/22/09 11:19	75-27-4	
Bromoform	ND	ug/L	1.0	0.94	1		04/22/09 11:19	75-25-2	
Bromomethane	ND	ug/L	1.0	0.91	1		04/22/09 11:19	74-83-9	
Carbon disulfide	ND	ug/L	1.0	0.66	1		04/22/09 11:19	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.49	1		04/22/09 11:19	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.41	1		04/22/09 11:19	108-90-7	
Chloroethane	ND	ug/L	1.0	0.97	1		04/22/09 11:19	75-00-3	
Chloroform	ND	ug/L	5.0	1.3	1		04/22/09 11:19	67-66-3	
Chloromethane	ND	ug/L	1.0	0.24	1		04/22/09 11:19	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	0.81	1		04/22/09 11:19	124-48-1	
Ethylbenzene	ND	ug/L	1.0	0.54	1		04/22/09 11:19	100-41-4	
Methylene Chloride	ND	ug/L	1.0	0.43	1		04/22/09 11:19	75-09-2	
Styrene	ND	ug/L	1.0	0.86	1		04/22/09 11:19	100-42-5	
Tetrachloroethene	**5.3**	ug/L	1.0	0.45	1		04/22/09 11:19	127-18-4	
Toluene	ND	ug/L	1.0	0.67	1		04/22/09 11:19	108-88-3	
Trichloroethene	**7.5**	ug/L	1.0	0.48	1		04/22/09 11:19	79-01-6	
Vinyl chloride	ND	ug/L	1.0	0.18	1		04/22/09 11:19	75-01-4	
Xylene (Total)	ND	ug/L	3.0	2.6	1		04/22/09 11:19	1330-20-7	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.20	1		04/22/09 11:19	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.19	1		04/22/09 11:19	10061-02-6	
4-Bromofluorobenzene (S)	94	%	70-130		1		04/22/09 11:19	460-00-4	
Dibromofluoromethane (S)	99	%	70-130		1		04/22/09 11:19	1868-53-7	1j
Toluene-d8 (S)	98	%	70-130		1		04/22/09 11:19	2037-26-5	

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ANALYTICAL RESULTS

Project: 71238.40 SCHLUMBERGER
Pace Project No.: 4016258

Sample: GWS-05 **Lab ID: 4016258006** Collected: 04/17/09 12:10 Received: 04/18/09 09:30 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,1-Trichloroethane	**1.6**	ug/L	1.0	0.90	1		04/22/09 11:43	71-55-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.20	1		04/22/09 11:43	79-34-5	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.42	1		04/22/09 11:43	79-00-5	
1,1-Dichloroethane	**0.83J**	ug/L	1.0	0.75	1		04/22/09 11:43	75-34-3	
1,1-Dichloroethene	**1.9**	ug/L	1.0	0.57	1		04/22/09 11:43	75-35-4	
1,2-Dichloroethane	ND	ug/L	1.0	0.36	1		04/22/09 11:43	107-06-2	
1,2-Dichloroethene (Total)	**19.9**	ug/L	2.0	1.4	1		04/22/09 11:43	540-59-0	
1,2-Dichloropropane	ND	ug/L	1.0	0.49	1		04/22/09 11:43	78-87-5	
2-Butanone (MEK)	ND	ug/L	20.0	4.3	1		04/22/09 11:43	78-93-3	
2-Hexanone	ND	ug/L	5.0	2.0	1		04/22/09 11:43	591-78-6	L1
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1.2	1		04/22/09 11:43	108-10-1	
Acetone	ND	ug/L	20.0	5.0	1		04/22/09 11:43	67-64-1	
Benzene	ND	ug/L	1.0	0.41	1		04/22/09 11:43	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.56	1		04/22/09 11:43	75-27-4	
Bromoform	ND	ug/L	1.0	0.94	1		04/22/09 11:43	75-25-2	
Bromomethane	ND	ug/L	1.0	0.91	1		04/22/09 11:43	74-83-9	
Carbon disulfide	ND	ug/L	1.0	0.66	1		04/22/09 11:43	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.49	1		04/22/09 11:43	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.41	1		04/22/09 11:43	108-90-7	
Chloroethane	ND	ug/L	1.0	0.97	1		04/22/09 11:43	75-00-3	
Chloroform	ND	ug/L	5.0	1.3	1		04/22/09 11:43	67-66-3	
Chloromethane	ND	ug/L	1.0	0.24	1		04/22/09 11:43	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	0.81	1		04/22/09 11:43	124-48-1	
Ethylbenzene	ND	ug/L	1.0	0.54	1		04/22/09 11:43	100-41-4	
Methylene Chloride	ND	ug/L	1.0	0.43	1		04/22/09 11:43	75-09-2	
Styrene	ND	ug/L	1.0	0.86	1		04/22/09 11:43	100-42-5	
Tetrachloroethene	**34.7**	ug/L	1.0	0.45	1		04/22/09 11:43	127-18-4	
Toluene	ND	ug/L	1.0	0.67	1		04/22/09 11:43	108-88-3	
Trichloroethene	**243**	ug/L	1.0	0.48	1		04/22/09 11:43	79-01-6	
Vinyl chloride	**0.23J**	ug/L	1.0	0.18	1		04/22/09 11:43	75-01-4	
Xylene (Total)	ND	ug/L	3.0	2.6	1		04/22/09 11:43	1330-20-7	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.20	1		04/22/09 11:43	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.19	1		04/22/09 11:43	10061-02-6	
4-Bromofluorobenzene (S)	97	%	70-130		1		04/22/09 11:43	460-00-4	
Dibromofluoromethane (S)	102	%	70-130		1		04/22/09 11:43	1868-53-7	1j
Toluene-d8 (S)	102	%	70-130		1		04/22/09 11:43	2037-26-5	

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ANALYTICAL RESULTS

Project: 71238.40 SCHLUMBERGER
Pace Project No.: 4016258

Sample: GWS-06 **Lab ID: 4016258007** Collected: 04/17/09 12:15 Received: 04/18/09 09:30 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,1-Trichloroethane	**3.2**	ug/L	2.5	2.2	2.5		04/22/09 12:07	71-55-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	2.5	0.50	2.5		04/22/09 12:07	79-34-5	
1,1,2-Trichloroethane	ND	ug/L	2.5	1.0	2.5		04/22/09 12:07	79-00-5	
1,1-Dichloroethane	ND	ug/L	2.5	1.9	2.5		04/22/09 12:07	75-34-3	
1,1-Dichloroethene	**3.3**	ug/L	2.5	1.4	2.5		04/22/09 12:07	75-35-4	
1,2-Dichloroethane	ND	ug/L	2.5	0.90	2.5		04/22/09 12:07	107-06-2	
1,2-Dichloroethene (Total)	**33.5**	ug/L	5.0	3.5	2.5		04/22/09 12:07	540-59-0	
1,2-Dichloropropane	ND	ug/L	2.5	1.2	2.5		04/22/09 12:07	78-87-5	
2-Butanone (MEK)	ND	ug/L	50.0	10.8	2.5		04/22/09 12:07	78-93-3	
2-Hexanone	ND	ug/L	12.5	4.9	2.5		04/22/09 12:07	591-78-6	L1
4-Methyl-2-pentanone (MIBK)	ND	ug/L	12.5	3.0	2.5		04/22/09 12:07	108-10-1	
Acetone	ND	ug/L	50.0	12.5	2.5		04/22/09 12:07	67-64-1	
Benzene	ND	ug/L	2.5	1.0	2.5		04/22/09 12:07	71-43-2	
Bromodichloromethane	ND	ug/L	2.5	1.4	2.5		04/22/09 12:07	75-27-4	
Bromoform	ND	ug/L	2.5	2.4	2.5		04/22/09 12:07	75-25-2	
Bromomethane	ND	ug/L	2.5	2.3	2.5		04/22/09 12:07	74-83-9	
Carbon disulfide	ND	ug/L	2.5	1.6	2.5		04/22/09 12:07	75-15-0	
Carbon tetrachloride	ND	ug/L	2.5	1.2	2.5		04/22/09 12:07	56-23-5	
Chlorobenzene	ND	ug/L	2.5	1.0	2.5		04/22/09 12:07	108-90-7	
Chloroethane	ND	ug/L	2.5	2.4	2.5		04/22/09 12:07	75-00-3	
Chloroform	ND	ug/L	12.5	3.2	2.5		04/22/09 12:07	67-66-3	
Chloromethane	ND	ug/L	2.5	0.60	2.5		04/22/09 12:07	74-87-3	
Dibromochloromethane	ND	ug/L	2.5	2.0	2.5		04/22/09 12:07	124-48-1	
Ethylbenzene	ND	ug/L	2.5	1.4	2.5		04/22/09 12:07	100-41-4	
Methylene Chloride	ND	ug/L	2.5	1.1	2.5		04/22/09 12:07	75-09-2	
Styrene	ND	ug/L	2.5	2.2	2.5		04/22/09 12:07	100-42-5	
Tetrachloroethene	**82.7**	ug/L	2.5	1.1	2.5		04/22/09 12:07	127-18-4	
Toluene	ND	ug/L	2.5	1.7	2.5		04/22/09 12:07	108-88-3	
Trichloroethene	**572**	ug/L	2.5	1.2	2.5		04/22/09 12:07	79-01-6	
Vinyl chloride	ND	ug/L	2.5	0.45	2.5		04/22/09 12:07	75-01-4	
Xylene (Total)	ND	ug/L	7.5	6.5	2.5		04/22/09 12:07	1330-20-7	
cis-1,3-Dichloropropene	ND	ug/L	2.5	0.50	2.5		04/22/09 12:07	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	2.5	0.48	2.5		04/22/09 12:07	10061-02-6	
4-Bromofluorobenzene (S)	96	%	70-130		2.5		04/22/09 12:07	460-00-4	
Dibromofluoromethane (S)	99	%	70-130		2.5		04/22/09 12:07	1868-53-7	
Toluene-d8 (S)	100	%	70-130		2.5		04/22/09 12:07	2037-26-5	

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ANALYTICAL RESULTS

Project: 71238.40 SCHLUMBERGER
Pace Project No.: 4016258

Sample: TBLK-01 **Lab ID: 4016258008** Collected: 04/17/09 00:00 Received: 04/18/09 09:30 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,1-Trichloroethane	ND	ug/L	1.0	0.90	1		04/21/09 11:55	71-55-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.20	1		04/21/09 11:55	79-34-5	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.42	1		04/21/09 11:55	79-00-5	
1,1-Dichloroethane	ND	ug/L	1.0	0.75	1		04/21/09 11:55	75-34-3	
1,1-Dichloroethene	ND	ug/L	1.0	0.57	1		04/21/09 11:55	75-35-4	
1,2-Dichloroethane	ND	ug/L	1.0	0.36	1		04/21/09 11:55	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	2.0	1.4	1		04/21/09 11:55	540-59-0	
1,2-Dichloropropane	ND	ug/L	1.0	0.49	1		04/21/09 11:55	78-87-5	
2-Butanone (MEK)	ND	ug/L	20.0	4.3	1		04/21/09 11:55	78-93-3	
2-Hexanone	ND	ug/L	5.0	2.0	1		04/21/09 11:55	591-78-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1.2	1		04/21/09 11:55	108-10-1	
Acetone	ND	ug/L	20.0	5.0	1		04/21/09 11:55	67-64-1	
Benzene	ND	ug/L	1.0	0.41	1		04/21/09 11:55	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.56	1		04/21/09 11:55	75-27-4	
Bromoform	ND	ug/L	1.0	0.94	1		04/21/09 11:55	75-25-2	
Bromomethane	ND	ug/L	1.0	0.91	1		04/21/09 11:55	74-83-9	
Carbon disulfide	ND	ug/L	1.0	0.66	1		04/21/09 11:55	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.49	1		04/21/09 11:55	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.41	1		04/21/09 11:55	108-90-7	
Chloroethane	ND	ug/L	1.0	0.97	1		04/21/09 11:55	75-00-3	
Chloroform	ND	ug/L	5.0	1.3	1		04/21/09 11:55	67-66-3	
Chloromethane	ND	ug/L	1.0	0.24	1		04/21/09 11:55	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	0.81	1		04/21/09 11:55	124-48-1	
Ethylbenzene	ND	ug/L	1.0	0.54	1		04/21/09 11:55	100-41-4	
Methylene Chloride	ND	ug/L	1.0	0.43	1		04/21/09 11:55	75-09-2	
Styrene	ND	ug/L	1.0	0.86	1		04/21/09 11:55	100-42-5	
Tetrachloroethene	ND	ug/L	1.0	0.45	1		04/21/09 11:55	127-18-4	
Toluene	**2.0**	ug/L	1.0	0.67	1		04/21/09 11:55	108-88-3	
Trichloroethene	ND	ug/L	1.0	0.48	1		04/21/09 11:55	79-01-6	
Vinyl chloride	ND	ug/L	1.0	0.18	1		04/21/09 11:55	75-01-4	
Xylene (Total)	ND	ug/L	3.0	2.6	1		04/21/09 11:55	1330-20-7	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.20	1		04/21/09 11:55	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.19	1		04/21/09 11:55	10061-02-6	
4-Bromofluorobenzene (S)	96	%	70-130		1		04/21/09 11:55	460-00-4	
Dibromofluoromethane (S)	96	%	70-130		1		04/21/09 11:55	1868-53-7	
Toluene-d8 (S)	100	%	70-130		1		04/21/09 11:55	2037-26-5	

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QUALITY CONTROL DATA

Project: 71238.40 SCHLUMBERGER
Pace Project No.: 4016258

QC Batch: MSV/4235 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 4016258001, 4016258002, 4016258008

METHOD BLANK: 147904 Matrix: Water
Associated Lab Samples: 4016258001, 4016258002, 4016258008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	04/21/09 09:39	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	04/21/09 09:39	
1,1,2-Trichloroethane	ug/L	ND	1.0	04/21/09 09:39	
1,1-Dichloroethane	ug/L	ND	1.0	04/21/09 09:39	
1,1-Dichloroethene	ug/L	ND	1.0	04/21/09 09:39	
1,2-Dichloroethane	ug/L	ND	1.0	04/21/09 09:39	
1,2-Dichloroethene (Total)	ug/L	ND	2.0	04/21/09 09:39	
1,2-Dichloropropane	ug/L	ND	1.0	04/21/09 09:39	
2-Butanone (MEK)	ug/L	ND	20.0	04/21/09 09:39	
2-Hexanone	ug/L	ND	5.0	04/21/09 09:39	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	04/21/09 09:39	
Acetone	ug/L	ND	20.0	04/21/09 09:39	
Benzene	ug/L	ND	1.0	04/21/09 09:39	
Bromodichloromethane	ug/L	ND	1.0	04/21/09 09:39	
Bromoform	ug/L	ND	1.0	04/21/09 09:39	
Bromomethane	ug/L	ND	1.0	04/21/09 09:39	
Carbon disulfide	ug/L	ND	1.0	04/21/09 09:39	
Carbon tetrachloride	ug/L	ND	1.0	04/21/09 09:39	
Chlorobenzene	ug/L	ND	1.0	04/21/09 09:39	
Chloroethane	ug/L	ND	1.0	04/21/09 09:39	
Chloroform	ug/L	ND	5.0	04/21/09 09:39	
Chloromethane	ug/L	ND	1.0	04/21/09 09:39	
cis-1,3-Dichloropropene	ug/L	ND	1.0	04/21/09 09:39	
Dibromochloromethane	ug/L	ND	1.0	04/21/09 09:39	
Ethylbenzene	ug/L	ND	1.0	04/21/09 09:39	
Methylene Chloride	ug/L	ND	1.0	04/21/09 09:39	
Styrene	ug/L	ND	1.0	04/21/09 09:39	
Tetrachloroethene	ug/L	ND	1.0	04/21/09 09:39	
Toluene	ug/L	ND	1.0	04/21/09 09:39	
trans-1,3-Dichloropropene	ug/L	ND	1.0	04/21/09 09:39	
Trichloroethene	ug/L	ND	1.0	04/21/09 09:39	
Vinyl chloride	ug/L	ND	1.0	04/21/09 09:39	
Xylene (Total)	ug/L	ND	3.0	04/21/09 09:39	
4-Bromofluorobenzene (S)	%	97	70-130	04/21/09 09:39	
Dibromofluoromethane (S)	%	96	70-130	04/21/09 09:39	
Toluene-d8 (S)	%	98	70-130	04/21/09 09:39	

LABORATORY CONTROL SAMPLE & LCSD: 147905 147906

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/L	50	50.7	51.2	101	102	75-128	.9	20	

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QUALITY CONTROL DATA

Project: 71238.40 SCHLUMBERGER
Pace Project No.: 4016258

LABORATORY CONTROL SAMPLE & LCSD: 147905 147906

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,1,2,2-Tetrachloroethane	ug/L	50	45.4	47.1	91	94	67-125	4	20	
1,1,2-Trichloroethane	ug/L	50	50.7	50.7	101	101	75-125	.2	20	
1,1-Dichloroethane	ug/L	50	49.1	49.0	98	98	71-130	.2	20	
1,1-Dichloroethene	ug/L	50	52.0	52.3	104	105	75-125	.6	20	
1,2-Dichloroethane	ug/L	50	46.1	47.2	92	94	71-132	2	20	
1,2-Dichloroethene (Total)	ug/L	100	100	100	100	100	75-125	.01	20	
1,2-Dichloropropane	ug/L	50	49.0	49.0	98	98	73-125	.09	20	
2-Butanone (MEK)	ug/L	50	50.4	48.4	101	97	59-130	4	20	
2-Hexanone	ug/L	50	45.3	44.8	91	90	51-125	1	20	
4-Methyl-2-pentanone (MIBK)	ug/L	50	45.1	45.6	90	91	59-125	1	20	
Acetone	ug/L	50	54.1	49.2	108	98	31-150	10	20	
Benzene	ug/L	50	50.2	50.6	100	101	75-125	.9	20	
Bromodichloromethane	ug/L	50	49.7	49.7	99	99	75-125	.1	20	
Bromoform	ug/L	50	48.4	48.2	97	96	75-125	.4	20	
Bromomethane	ug/L	50	44.8	45.3	90	91	66-125	1	20	
Carbon disulfide	ug/L	50	52.5	51.1	105	102	71-128	3	20	
Carbon tetrachloride	ug/L	50	51.8	52.4	104	105	75-125	1	20	
Chlorobenzene	ug/L	50	51.5	50.1	103	100	75-125	3	20	
Chloroethane	ug/L	50	49.6	51.8	99	104	72-126	4	20	
Chloroform	ug/L	50	49.0	49.6	98	99	75-125	1	20	
Chloromethane	ug/L	50	43.3	43.3	87	87	46-143	.09	20	
cis-1,3-Dichloropropene	ug/L	50	49.7	49.1	99	98	75-125	1	20	
Dibromochloromethane	ug/L	50	48.6	48.3	97	97	75-125	.6	20	
Ethylbenzene	ug/L	50	50.7	50.7	101	101	75-125	.03	20	
Methylene Chloride	ug/L	50	49.7	51.4	99	103	75-125	3	20	
Styrene	ug/L	50	47.5	47.2	95	94	75-125	.6	20	
Tetrachloroethene	ug/L	50	52.3	51.9	105	104	75-130	.8	20	
Toluene	ug/L	50	52.2	51.9	104	104	75-125	.6	20	
trans-1,3-Dichloropropene	ug/L	50	50.0	47.8	100	96	75-125	4	20	
Trichloroethene	ug/L	50	51.9	52.0	104	104	75-125	.08	20	
Vinyl chloride	ug/L	50	49.5	52.0	99	104	65-130	5	20	
Xylene (Total)	ug/L	150	152	153	102	102	75-125	.2	20	
4-Bromofluorobenzene (S)	%				97	95	70-130			
Dibromofluoromethane (S)	%				96	96	70-130			
Toluene-d8 (S)	%				100	99	70-130			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 147947 147948

Parameter	Units	4016265001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1-Trichloroethane	ug/L	<0.90	50	50	51.9	52.7	104	105	70-130	1	30	
1,1,2,2-Tetrachloroethane	ug/L	<0.20	50	50	49.5	48.5	99	97	70-130	2	30	
1,1,2-Trichloroethane	ug/L	<0.42	50	50	53.5	52.7	107	105	70-130	1	30	
1,1-Dichloroethane	ug/L	<0.75	50	50	50.1	49.7	100	99	70-130	.7	30	
1,1-Dichloroethene	ug/L	<0.57	50	50	54.7	53.9	109	108	70-135	1	30	
1,2-Dichloroethane	ug/L	<0.36	50	50	48.3	49.0	97	98	70-130	1	30	
1,2-Dichloroethene (Total)	ug/L	1.4J	100	100	106	105	104	104	70-130	.3	30	

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QUALITY CONTROL DATA

Project: 71238.40 SCHLUMBERGER
Pace Project No.: 4016258

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 147947 147948

Parameter	Units	4016265001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dichloropropane	ug/L	<0.49	50	50	48.4	49.6	97	99	70-130	2	30	
2-Butanone (MEK)	ug/L	<4.3	50	50	48.2	52.2	96	104	51-130	8	30	
2-Hexanone	ug/L	<2.0	50	50	46.1	45.7	92	91	53-130	.8	30	
4-Methyl-2-pentanone (MIBK)	ug/L	<1.2	50	50	46.6	46.9	93	94	62-132	.7	30	
Acetone	ug/L	<5.0	50	50	41.0	43.1	82	86	42-132	5	30	
Benzene	ug/L	<0.41	50	50	52.0	51.0	104	102	70-130	2	30	
Bromodichloromethane	ug/L	<0.56	50	50	49.4	49.4	99	99	70-130	.06	30	
Bromoform	ug/L	<0.94	50	50	50.1	48.0	100	96	70-130	4	30	
Bromomethane	ug/L	<0.91	50	50	46.5	48.5	93	97	63-147	4	30	
Carbon disulfide	ug/L	<0.66	50	50	54.8	54.4	110	109	56-142	.7	30	
Carbon tetrachloride	ug/L	<0.49	50	50	52.4	54.2	105	108	70-131	3	30	
Chlorobenzene	ug/L	<0.41	50	50	52.4	51.7	105	103	70-130	1	30	
Chloroethane	ug/L	<0.97	50	50	52.2	52.2	104	104	67-138	.1	30	
Chloroform	ug/L	<1.3	50	50	51.8	51.4	104	103	70-130	.9	30	
Chloromethane	ug/L	<0.24	50	50	42.7	43.0	85	86	43-150	.5	30	
cis-1,3-Dichloropropene	ug/L	<0.20	50	50	50.2	50.2	100	100	70-130	.01	30	
Dibromochloromethane	ug/L	<0.81	50	50	48.0	47.9	96	96	70-130	.3	30	
Ethylbenzene	ug/L	<0.54	50	50	51.3	51.2	103	102	70-136	.3	30	
Methylene Chloride	ug/L	<0.43	50	50	52.8	52.8	106	106	70-130	.1	30	
Styrene	ug/L	<0.86	50	50	46.8	45.2	94	90	70-130	3	30	
Tetrachloroethene	ug/L	31.4	50	50	89.2	83.8	116	105	70-130	6	30	
Toluene	ug/L	<0.67	50	50	53.4	53.6	107	107	70-130	.3	30	
trans-1,3-Dichloropropene	ug/L	<0.19	50	50	51.2	49.7	102	99	70-130	3	30	
Trichloroethene	ug/L	9.4	50	50	61.3	62.4	104	106	70-130	2	30	
Vinyl chloride	ug/L	<0.18	50	50	52.9	52.5	106	105	62-138	.9	30	
Xylene (Total)	ug/L	<2.6	150	150	155	155	103	103	70-130	.07	30	
4-Bromofluorobenzene (S)	%						96	95	70-130			
Dibromofluoromethane (S)	%						97	97	70-130			
Toluene-d8 (S)	%						100	99	70-130			

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QUALITY CONTROL DATA

Project: 71238.40 SCHLUMBERGER
Pace Project No.: 4016258

QC Batch: MSV/4247 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 4016258003, 4016258004, 4016258005, 4016258006, 4016258007

METHOD BLANK: 148333 Matrix: Water
Associated Lab Samples: 4016258003, 4016258004, 4016258005, 4016258006, 4016258007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	04/22/09 08:30	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	04/22/09 08:30	
1,1,2-Trichloroethane	ug/L	ND	1.0	04/22/09 08:30	
1,1-Dichloroethane	ug/L	ND	1.0	04/22/09 08:30	
1,1-Dichloroethene	ug/L	ND	1.0	04/22/09 08:30	
1,2-Dichloroethane	ug/L	ND	1.0	04/22/09 08:30	
1,2-Dichloroethene (Total)	ug/L	ND	2.0	04/22/09 08:30	
1,2-Dichloropropane	ug/L	ND	1.0	04/22/09 08:30	
2-Butanone (MEK)	ug/L	ND	20.0	04/22/09 08:30	
2-Hexanone	ug/L	ND	5.0	04/22/09 08:30	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	04/22/09 08:30	
Acetone	ug/L	ND	20.0	04/22/09 08:30	
Benzene	ug/L	ND	1.0	04/22/09 08:30	
Bromodichloromethane	ug/L	ND	1.0	04/22/09 08:30	
Bromoform	ug/L	ND	1.0	04/22/09 08:30	
Bromomethane	ug/L	ND	1.0	04/22/09 08:30	
Carbon disulfide	ug/L	ND	1.0	04/22/09 08:30	
Carbon tetrachloride	ug/L	ND	1.0	04/22/09 08:30	
Chlorobenzene	ug/L	ND	1.0	04/22/09 08:30	
Chloroethane	ug/L	ND	1.0	04/22/09 08:30	
Chloroform	ug/L	ND	5.0	04/22/09 08:30	
Chloromethane	ug/L	ND	1.0	04/22/09 08:30	
cis-1,3-Dichloropropene	ug/L	ND	1.0	04/22/09 08:30	
Dibromochloromethane	ug/L	ND	1.0	04/22/09 08:30	
Ethylbenzene	ug/L	ND	1.0	04/22/09 08:30	
Methylene Chloride	ug/L	ND	1.0	04/22/09 08:30	
Styrene	ug/L	ND	1.0	04/22/09 08:30	
Tetrachloroethene	ug/L	ND	1.0	04/22/09 08:30	
Toluene	ug/L	ND	1.0	04/22/09 08:30	
trans-1,3-Dichloropropene	ug/L	ND	1.0	04/22/09 08:30	
Trichloroethene	ug/L	ND	1.0	04/22/09 08:30	
Vinyl chloride	ug/L	ND	1.0	04/22/09 08:30	
Xylene (Total)	ug/L	ND	3.0	04/22/09 08:30	
4-Bromofluorobenzene (S)	%	98	70-130	04/22/09 08:30	
Dibromofluoromethane (S)	%	98	70-130	04/22/09 08:30	
Toluene-d8 (S)	%	105	70-130	04/22/09 08:30	

LABORATORY CONTROL SAMPLE & LCSD: 148334 148335

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/L	50	52.5	53.8	105	108	75-128	2	20	

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QUALITY CONTROL DATA

Project: 71238.40 SCHLUMBERGER
Pace Project No.: 4016258

LABORATORY CONTROL SAMPLE & LCSD: 148334 148335

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,1,2,2-Tetrachloroethane	ug/L	50	43.8	45.2	88	90	67-125	3	20	
1,1,2-Trichloroethane	ug/L	50	49.1	50.9	98	102	75-125	4	20	
1,1-Dichloroethane	ug/L	50	51.3	52.3	103	105	71-130	2	20	
1,1-Dichloroethene	ug/L	50	51.7	51.5	103	103	75-125	.4	20	
1,2-Dichloroethane	ug/L	50	54.1	54.5	108	109	71-132	.7	20	
1,2-Dichloroethene (Total)	ug/L	100	99.6	98.1	100	98	75-125	2	20	
1,2-Dichloropropane	ug/L	50	51.7	50.2	103	100	73-125	3	20	
2-Butanone (MEK)	ug/L	50	50.4	52.2	101	104	59-130	4	20	
2-Hexanone	ug/L	50	67.3	55.3	135	111	51-125	20	20	L0
4-Methyl-2-pentanone (MIBK)	ug/L	50	52.3	50.4	105	101	59-125	4	20	
Acetone	ug/L	50	48.5	45.1	97	90	31-150	7	20	
Benzene	ug/L	50	51.4	52.6	103	105	75-125	2	20	
Bromodichloromethane	ug/L	50	48.2	49.1	96	98	75-125	2	20	
Bromoform	ug/L	50	51.9	51.8	104	104	75-125	.1	20	
Bromomethane	ug/L	50	33.8	34.3	68	69	66-125	1	20	
Carbon disulfide	ug/L	50	50.6	50.3	101	101	71-128	.5	20	
Carbon tetrachloride	ug/L	50	53.0	54.3	106	109	75-125	2	20	
Chlorobenzene	ug/L	50	51.8	51.7	104	103	75-125	.2	20	
Chloroethane	ug/L	50	51.3	51.6	103	103	72-126	.7	20	
Chloroform	ug/L	50	51.3	50.7	103	101	75-125	1	20	
Chloromethane	ug/L	50	43.8	44.2	88	88	46-143	1	20	
cis-1,3-Dichloropropene	ug/L	50	50.6	49.7	101	99	75-125	2	20	
Dibromochloromethane	ug/L	50	48.7	48.6	97	97	75-125	.1	20	
Ethylbenzene	ug/L	50	50.8	51.6	102	103	75-125	2	20	
Methylene Chloride	ug/L	50	49.3	50.4	99	101	75-125	2	20	
Styrene	ug/L	50	46.1	47.3	92	95	75-125	3	20	
Tetrachloroethene	ug/L	50	54.9	53.3	110	107	75-130	3	20	
Toluene	ug/L	50	51.1	51.0	102	102	75-125	.2	20	
trans-1,3-Dichloropropene	ug/L	50	51.2	51.7	102	103	75-125	.8	20	
Trichloroethene	ug/L	50	48.1	47.9	96	96	75-125	.5	20	
Vinyl chloride	ug/L	50	47.4	47.2	95	94	65-130	.6	20	
Xylene (Total)	ug/L	150	154	155	103	103	75-125	.7	20	
4-Bromofluorobenzene (S)	%				95	97	70-130			
Dibromofluoromethane (S)	%				101	100	70-130			
Toluene-d8 (S)	%				103	104	70-130			

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Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 71238.40 SCHLUMBERGER
Pace Project No.: 4016258

QC Batch: OEXT/4077 Analysis Method: EPA 8082
QC Batch Method: EPA 3510 Analysis Description: 8082 GCS PCB
Associated Lab Samples: 4016258001

METHOD BLANK: 148406 Matrix: Water
Associated Lab Samples: 4016258001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
PCB-1016 (Aroclor 1016)	ug/L	ND	0.50	04/23/09 23:28	
PCB-1221 (Aroclor 1221)	ug/L	ND	0.50	04/23/09 23:28	
PCB-1232 (Aroclor 1232)	ug/L	ND	0.50	04/23/09 23:28	
PCB-1242 (Aroclor 1242)	ug/L	ND	0.50	04/23/09 23:28	
PCB-1248 (Aroclor 1248)	ug/L	ND	0.50	04/23/09 23:28	
PCB-1254 (Aroclor 1254)	ug/L	ND	0.50	04/23/09 23:28	
PCB-1260 (Aroclor 1260)	ug/L	ND	0.50	04/23/09 23:28	
Decachlorobiphenyl (S)	%	73	70-130	04/23/09 23:28	
Tetrachloro-m-xylene (S)	%	62	70-130	04/23/09 23:28	2j

LABORATORY CONTROL SAMPLE & LCSD: 148407 148408

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
PCB-1016 (Aroclor 1016)	ug/L	2.5	2.2	2.2	87	87	70-130	.4	20	
PCB-1221 (Aroclor 1221)	ug/L		ND	ND					20	
PCB-1232 (Aroclor 1232)	ug/L		ND	ND					20	
PCB-1242 (Aroclor 1242)	ug/L		ND	ND					20	
PCB-1248 (Aroclor 1248)	ug/L		ND	ND					20	
PCB-1254 (Aroclor 1254)	ug/L		ND	ND					20	
PCB-1260 (Aroclor 1260)	ug/L	2.5	2.0	1.9	79	75	70-130	6	20	
Decachlorobiphenyl (S)	%				76	68	70-130			2j
Tetrachloro-m-xylene (S)	%				65	65	70-130			2j

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QUALIFIERS

Project: 71238.40 SCHLUMBERGER
Pace Project No.: 4016258

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

Pace Analytical is NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

U - Indicates the compound was analyzed for, but not detected.

LABORATORIES

PASI-G	Pace Analytical Services - Green Bay

BATCH QUALIFIERS

Batch: GCSV/2652

[1]	A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

ANALYTE QUALIFIERS

1j	Results are from sample aliquot taken from VOA vial with headspace due to insufficient volume.
2j	Surrogate fails South Carolina criteria low for recovery but passes laboratory generated limits.
L0	Analyte recovery in the laboratory control sample (LCS) was outside QC limits.
L1	Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results may be biased high.
S0	Surrogate recovery outside laboratory control limits.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 71238.40 SCHLUMBERGER
Pace Project No.: 4016258

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
4016258001	SW-10	EPA 8260	MSV/4235		
4016258002	GWS-01	EPA 8260	MSV/4235		
4016258008	TBLK-01	EPA 8260	MSV/4235		
4016258003	GWS-02	EPA 8260	MSV/4247		
4016258004	GWS-03	EPA 8260	MSV/4247		
4016258005	GWS-04	EPA 8260	MSV/4247		
4016258006	GWS-05	EPA 8260	MSV/4247		
4016258007	GWS-06	EPA 8260	MSV/4247		
4016258001	SW-10	EPA 3510	OEXT/4077	EPA 8082	GCSV/2652

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RMT

CHAIN OF CUSTODY RECORD

VMEW

77160

30 Patewood Drive, Suite 100, Patewood Plaza One, Greenville, SC 29615-3535
Phone 864/281-0030 • Fax 864/281-0288

Project No.: 71238.40

Project/Client: Schlumberger

Project Manager/Contact Person: Mike Parker / Travis Tarbet

Lab No.	Yr. 09 Date	Time	Sample Station ID	Total Number of Containers	MATRIX	VOCs	PCBs	Filtered (Yes/No)		Preserved (Code)		Comments:
								N	N	E	A	
001	4/17	1107	SW-10	4	SW	X	X			2-1L AG	2-40ml B	Email results to
002	4/17	1150	GWS-01	2	GW	X					↓	travis.tarbet@rmtinc.com
003	4/17	1155	GWS-02	1	GW	X				1-40ml B		
004	4/17	1200	GWS-03	1	GW	X				↓		
005	4/17	1205	GWS-04	1	GW	X						
006	4/17	1210	GWS-05	1	GW	X						
007	4/17	1215	GWS-06	1	GW	X				↓		
008			TBLK-01	2	GW	X				3-40ml B		

PRESERVED CODES
A — NONE
B — HNO_3
C — H_2SO_4
D — NaOH
E — HCl
F — METHANOL
G — _____

SPECIAL INSTRUCTIONS

4016258

SAMPLER Relinquished by (Signature)	Date/Time	Received by (Signature)	Date/Time
Travis Tarbet	4/17/09 1515	FedEx Airbill #868287592473	
Relinquished by (Signature)	Date/Time	Received by (Signature)	Date/Time
FedEx	4/18/09 930		4/18/09 930
Relinquished by (Signature)	Date/Time	Received by (Signature)	Date/Time

HAZARDS ASSOCIATED WITH SAMPLES
☐ Flammable
☐ Corrosive
☐ Highly Toxic
☐ Other (list) _____

Turn Around (circle one): (Normal) Rush
Report Due _____

(For Lab Use Only)
Receipt Temp: Temp Blank (Y) N
3°C
Receipt pH (Wet/Metals)
N/A

Custody Seal: Present/~~Absent~~ (Intact)/~~Not Intact~~ Seal #s

F-268 (10/08)

WHITE—LABORATORY COPY YELLOW—REPORT APPENDIX PINK—SAMPLER/SUBMITTER

PROJECT WORK ORDER

Sample Collection and Laboratory Work Request
Sangamo (Pickens County, S.C.)
April 2009
Project# 71238.40 **Task 1**

Lab: Pace Analytical Services, Inc.
1241 Bellevue St., Suite 9
Green Bay, WI 54302
Contact: Kang Khang
Ph: 1-800-736-2436 Fax: 920-469-8827

RMT Contacts:
Terry Hertz or Mark Miesfeldt: (864) 281-0030

RMT EDD required; normal turnaround time

	VOCs (TCL)	PCBs	Field pH, Temp, Spec. Cond.	Comment
Surface Water Samples				
GWS-01	x		x	
GWS-02	x		x	
GWS-03	x		x	
GWS-04	x		x	
GWS-05	x		x	
GWS-06	x		x	
SW-10	x	x	x	
TBLK-09201	x			

VOCs Volatile Organic Compounds on the Target Compound List - SW-846 Method 8260
(3) HCl preserved 40mL septa vials (+3 more for MS/MSD)/14 day hold time

PCBs Polychlorinatedbiphenyls (PCBs) - SW-846 Method 8082
(2) 1L unpreserved amber jar/7 day hold time

Sample Condition Upon Receipt

Pace Analytical

Client Name: FMT Project # 4016758

Courier: ☒ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace Other _____

Tracking #: _____

Custody Seal on Cooler/Box Present: ☒ yes ☐ no Seals Intact: ☒ yes ☐ no

Packing Material: ☒ Bubble Wrap ☒ Bubble Bags ☐ None ☐ Other _____

Thermometer Used: AD Type of Ice: (Wet) Blue None ☐ Samples on ice, cooling process has begun

Cooler Temperature: 3°C Biological Tissue is Frozen: Yes No

Temp should be above freezing to 6°C Comments:

Date and Initials of person examining contents: 4/18/09 RE

Chain of Custody Present:	☒Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☒Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☒Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☒Yes ☐No ☐N/A	4. NO Signatures
Samples Arrived within Hold Time:	☒Yes ☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☐Yes ☒No ☐N/A	6.
Rush Turn Around Time Requested:	☐Yes ☒No ☐N/A	7.
Sufficient Volume:	☒Yes ☐No ☐N/A	8. Only received 1-40ml per sample
Correct Containers Used:	☒Yes ☐No ☐N/A	9.
-Pace Containers Used:	☒Yes ☐No ☐N/A	
Containers Intact:	☒Yes ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☒N/A	11.
Sample Labels match COC:	☒Yes ☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix: W		
All containers needing preservation have been checked.	☐Yes ☐No ☒N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☐Yes ☐No ☒N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☐Yes ☐No	Initial when completed / Lot # of added preservative
Samples checked for dechlorination:	☐Yes ☐No ☒N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes ☒No ☐N/A	15.
Trip Blank Present:	☒Yes ☐No ☐N/A	16.
Trip Blank Custody Seals Present	☐Yes ☒No ☐N/A	
Pace Trip Blank Lot # (if purchased): _____		

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: Britney Barnes Date/Time: 4/21/09 2:40pm.

Comments/ Resolution: (8) on ~~GWS-02~~ GWS-02, GWS-03, GWS-04, GWS-05, GWS-06. Per Britney - Screen samples - Notify Pace if any needs to be diluted. If none of the samples need dilution, Proceed with analysis.

Project Manager Review: _____ **Date:** 4/21/09

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

Samples Collected 06/16/09

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July 02, 2009

Mark Bailey
RMT Greenville
30 Patewood Drive
Suite100, Patewood Plaza One
Greenville, SC 296153535

RE: Project: 71238.40 TASK 1 PLANT SITE
Pace Project No.: 4018715

Dear Mark Bailey:
Enclosed are the analytical results for sample(s) received by the laboratory on June 17, 2009. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Kang Khang

kang.khang@pacelabs.com
Project Manager

Enclosures

cc: Lisa Clark, RMT - GREENVILLE
Terry Hertz, RMT GREENVILLE

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CoC-SIGNED; TEMP-OK; HT
SURRS - RECS OK
TBLK-09201 - CLEAN
MBLKS - CLEAN
LCS/LCSD - RECS & RECS OK EXCEPT FOR RECS OF 1,1,2,2-TETRACHLOROETHENE IN LCS & LCSD ASSOCIATED WITH SAMPLES CP-H-03 (20.0) AND CP-H-03 (24.0). THE LOW RECS FOR 1,1,2,2-TCA WERE 3-4% BELOW THE LCL. SINCE THE RECOVERY WAS NOT FAR BELOW THE LCL, AN "r" FLAG (SUGGESTED BY VALIDATION GUIDANCE) WAS NOT ASSIGNED.
• 1,1,2,2-TETRACHLOROETHANE IN CP-H-03(20.0) AND CP-H-03 (24.0) IS ASSIGNED A "uj" FLAG.

June 25, 2009

Mark Bailey
RMT Greenville
30 Patewood Drive
Suite100, Patewood Plaza One
Greenville, SC 296153535

MS/MSD - BATCH QC ONLY DONE FOR AQUEOUS MATRIX; LOW REC IN MSD FOR CARBON DISULFIDE; HIGH RPD FOR CARBON DISULFIDE. NO FLAG ASSIGNED SINCE BATCH QC SAMPLE.

RE: Project: 71238.40 TASK 1 PLANT SITE
Pace Project No.: 4018715

Dear Mark Bailey:
Enclosed are the analytical results for sample(s) received by the laboratory on June 17, 2009. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

TLH 6/26/09

Kang Khang

kang.khang@pacelabs.com
Project Manager

Enclosures

cc: Lisa Clark, RMT - GREENVILLE
Terry Hertz, RMT GREENVILLE

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CERTIFICATIONS

Project: 71238.40 TASK 1 PLANT SITE
Pace Project No.: 4018715

Green Bay Certification IDs

Wisconsin DATCP Certification #: 105-444
Wisconsin DATCP Certification #: 105-444
Wisconsin Certification #: 405132750
Wisconsin Certification #: 405132750
South Carolina Certification #: 83006001
South Carolina Certification #: 83006001
North Dakota Certification #: R-200
North Dakota Certification #: R-150
North Carolina Certification #: 503
North Carolina Certification #: 503
New York Certification #: 11887
New York Certification #: 11888
Minnesota Certification #: 055-999-334
Minnesota Certification #: 055-999-334
Louisiana Certification #: 04169
Louisiana Certification #: 04168
Kentucky Certification #: 83
Kentucky Certification #: 82
Illinois Certification #: 200051
Illinois Certification #: 200050
Florida/NELAP Certification #: E87951
Florida/NELAP Certification #: E87948

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SAMPLE SUMMARY

Project: 71238.40 TASK 1 PLANT SITE
Pace Project No.: 4018715

Lab ID	Sample ID	Matrix	Date Collected	Date Received
4018715001	**CP-H-03 (20.0')**	Solid	06/16/09 15:50	06/17/09 09:40
4018715002	**CP-H-03 (24.0')**	Solid	06/16/09 16:05	06/17/09 09:40
4018715003	**CP-H-02 (2.0')**	Solid	06/16/09 16:25	06/17/09 09:40
4018715004	**CP-H-02 (4.0')**	Solid	06/16/09 16:30	06/17/09 09:40
4018715005	**TBLK-09201**	Water	06/16/09 16:30	06/17/09 09:40

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SAMPLE ANALYTE COUNT

Project: 71238.40 TASK 1 PLANT SITE
Pace Project No.: 4018715

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
4018715001	**CP-H-03 (20.0')**	ASTM D2974-87	MRN	1	PASI-G
		EPA 8260	JJB	39	PASI-G
4018715002	**CP-H-03 (24.0')**	ASTM D2974-87	MRN	1	PASI-G
		EPA 8260	JJB	39	PASI-G
4018715003	**CP-H-02 (2.0')**	ASTM D2974-87	MRN	1	PASI-G
		EPA 8260	JJB	39	PASI-G
4018715004	**CP-H-02 (4.0')**	ASTM D2974-87	MRN	1	PASI-G
		EPA 8260	JJB	39	PASI-G
4018715005	**TBLK-09201**	EPA 8260	SMT	37	PASI-G

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PROJECT NARRATIVE

Project: 71238.40 TASK 1 PLANT SITE
Pace Project No.: 4018715

Method: EPA 8260
Description: 8260 MSV
Client: RMT - GREENVILLE
Date: July 02, 2009

General Information:
1 sample was analyzed for EPA 8260. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: MSV/4765

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 4018810002

M0: Matrix spike recovery was outside laboratory control limits.
- MSD (Lab ID: 172335)
  - Carbon disulfide

R1: RPD value was outside control limits.
- MSD (Lab ID: 172335)
  - Carbon disulfide

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: 71238.40 TASK 1 PLANT SITE
Pace Project No.: 4018715

Method: EPA 8260
Description: 8260 MSV 5035 Low Level
Client: RMT - GREENVILLE
Date: July 02, 2009

General Information:
2 samples were analyzed for EPA 8260. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 5035A with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

QC Batch: MSV/4795

L0: Analyte recovery in the laboratory control sample (LCS) was outside QC limits.

- LCS (Lab ID: 173462)
  - 1,1,2,2-Tetrachloroethane
- LCSD (Lab ID: 173463)
  - 1,1,2,2-Tetrachloroethane

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: MSV/4795

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: 71238.40 TASK 1 PLANT SITE
Pace Project No.: 4018715

Method: EPA 8260
Description: 8260 MSV 5035 Med Level
Client: RMT - GREENVILLE
Date: July 02, 2009

General Information:
2 samples were analyzed for EPA 8260. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 5035/5030B with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

QC Batch: MSV/4757

S4: Surrogate recovery not evaluated against control limits due to sample dilution.
- CP-H-02 (4.0') (Lab ID: 4018715004)
  - 4-Bromofluorobenzene (S)
  - Dibromofluoromethane (S)
  - Toluene-d8 (S)

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: MSV/4758

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: 71238.40 TASK 1 PLANT SITE
Pace Project No.: 4018715

Method: **ASTM D2974-87**
Description: Percent Moisture
Client: RMT - GREENVILLE
Date: July 02, 2009

General Information:
4 samples were analyzed for ASTM D2974-87. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: 71238.40 TASK 1 PLANT SITE
Pace Project No.: 4018715

Sample: CP-H-03 (20.0') **Lab ID: 4018715001** Collected: 06/16/09 15:50 Received: 06/17/09 09:40 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035 Low Level	Analytical Method: EPA 8260 Preparation Method: EPA 5035A								
Acetone	**21.7**	ug/kg	21.4	7.1	1	06/18/09 12:37	06/22/09 10:08	67-64-1	
Benzene	**<0.66**	ug/kg	5.4	0.66	1	06/18/09 12:37	06/22/09 10:08	71-43-2	
Bromodichloromethane	**<0.38**	ug/kg	5.4	0.38	1	06/18/09 12:37	06/22/09 10:08	75-27-4	
Bromoform	**<1.1**	ug/kg	5.4	1.1	1	06/18/09 12:37	06/22/09 10:08	75-25-2	
Bromomethane	**<1.2**	ug/kg	5.4	1.2	1	06/18/09 12:37	06/22/09 10:08	74-83-9	
2-Butanone (MEK)	**<2.0**	ug/kg	5.4	2.0	1	06/18/09 12:37	06/22/09 10:08	78-93-3	
Carbon disulfide	**<1.2**	ug/kg	5.4	1.2	1	06/18/09 12:37	06/22/09 10:08	75-15-0	
Carbon tetrachloride	**<0.85**	ug/kg	5.4	0.85	1	06/18/09 12:37	06/22/09 10:08	56-23-5	
Chlorobenzene	**<0.22**	ug/kg	5.4	0.22	1	06/18/09 12:37	06/22/09 10:08	108-90-7	
Chloroethane	**<1.6**	ug/kg	5.4	1.6	1	06/18/09 12:37	06/22/09 10:08	75-00-3	
Chloroform	**<0.58**	ug/kg	5.4	0.58	1	06/18/09 12:37	06/22/09 10:08	67-66-3	
Chloromethane	**<0.91**	ug/kg	5.4	0.91	1	06/18/09 12:37	06/22/09 10:08	74-87-3	
Dibromochloromethane	**<0.76**	ug/kg	5.4	0.76	1	06/18/09 12:37	06/22/09 10:08	124-48-1	
1,1-Dichloroethane	**<0.74**	ug/kg	5.4	0.74	1	06/18/09 12:37	06/22/09 10:08	75-34-3	
1,2-Dichloroethane	**<0.61**	ug/kg	5.4	0.61	1	06/18/09 12:37	06/22/09 10:08	107-06-2	
1,1-Dichloroethene	**<0.56**	ug/kg	5.4	0.56	1	06/18/09 12:37	06/22/09 10:08	75-35-4	
cis-1,2-Dichloroethene	**<1.1**	ug/kg	5.4	1.1	1	06/18/09 12:37	06/22/09 10:08	156-59-2	
trans-1,2-Dichloroethene	**<0.81**	ug/kg	5.4	0.81	1	06/18/09 12:37	06/22/09 10:08	156-60-5	
1,2-Dichloropropane	**<0.68**	ug/kg	5.4	0.68	1	06/18/09 12:37	06/22/09 10:08	78-87-5	
cis-1,3-Dichloropropene	**<0.58**	ug/kg	5.4	0.58	1	06/18/09 12:37	06/22/09 10:08	10061-01-5	
trans-1,3-Dichloropropene	**<0.56**	ug/kg	5.4	0.56	1	06/18/09 12:37	06/22/09 10:08	10061-02-6	
Ethylbenzene	**<0.28**	ug/kg	5.4	0.28	1	06/18/09 12:37	06/22/09 10:08	100-41-4	
2-Hexanone	**<1.4**	ug/kg	5.4	1.4	1	06/18/09 12:37	06/22/09 10:08	591-78-6	
Methylene Chloride	**1.7J**	ug/kg	5.4	0.43	1	06/18/09 12:37	06/22/09 10:08	75-09-2	Z3
4-Methyl-2-pentanone (MIBK)	**<0.91**	ug/kg	5.4	0.91	1	06/18/09 12:37	06/22/09 10:08	108-10-1	
Methyl-tert-butyl ether	**<0.59**	ug/kg	5.4	0.59	1	06/18/09 12:37	06/22/09 10:08	1634-04-4	
Styrene	**<0.12**	ug/kg	5.4	0.12	1	06/18/09 12:37	06/22/09 10:08	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.79**	ug/kg	5.4	0.79	1	06/18/09 12:37	06/22/09 10:08	79-34-5	L2
Tetrachloroethene	**110**	ug/kg	5.4	0.98	1	06/18/09 12:37	06/22/09 10:08	127-18-4	
Toluene	**<0.91**	ug/kg	5.4	0.91	1	06/18/09 12:37	06/22/09 10:08	108-88-3	
1,1,1-Trichloroethane	**<0.83**	ug/kg	5.4	0.83	1	06/18/09 12:37	06/22/09 10:08	71-55-6	
1,1,2-Trichloroethane	**<0.77**	ug/kg	5.4	0.77	1	06/18/09 12:37	06/22/09 10:08	79-00-5	
Trichloroethene	**48.6**	ug/kg	5.4	0.62	1	06/18/09 12:37	06/22/09 10:08	79-01-6	
Vinyl chloride	**<0.93**	ug/kg	5.4	0.93	1	06/18/09 12:37	06/22/09 10:08	75-01-4	
m&p-Xylene	**<1.1**	ug/kg	10.7	1.1	1	06/18/09 12:37	06/22/09 10:08	1330-20-7	
o-Xylene	**<0.60**	ug/kg	5.4	0.60	1	06/18/09 12:37	06/22/09 10:08	95-47-6	
Dibromofluoromethane (S)	87	%	63-130		1	06/18/09 12:37	06/22/09 10:08	1868-53-7	
Toluene-d8 (S)	93	%	70-130		1	06/18/09 12:37	06/22/09 10:08	2037-26-5	
4-Bromofluorobenzene (S)	90	%	70-130		1	06/18/09 12:37	06/22/09 10:08	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**19.2**	%	0.10	0.10	1		06/24/09 07:53		

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ANALYTICAL RESULTS

Project: 71238.40 TASK 1 PLANT SITE
Pace Project No.: 4018715

Sample: CP-H-03 (24.0') **Lab ID: 4018715002** Collected: 06/16/09 16:05 Received: 06/17/09 09:40 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035 Low Level	Analytical Method: EPA 8260 Preparation Method: EPA 5035A								
Acetone	**7.9J**	ug/kg	20.0	6.6	1	06/18/09 12:37	06/22/09 10:31	67-64-1	
Benzene	**<0.61**	ug/kg	5.0	0.61	1	06/18/09 12:37	06/22/09 10:31	71-43-2	
Bromodichloromethane	**<0.35**	ug/kg	5.0	0.35	1	06/18/09 12:37	06/22/09 10:31	75-27-4	
Bromoform	**<0.99**	ug/kg	5.0	0.99	1	06/18/09 12:37	06/22/09 10:31	75-25-2	
Bromomethane	**<1.1**	ug/kg	5.0	1.1	1	06/18/09 12:37	06/22/09 10:31	74-83-9	
2-Butanone (MEK)	**<1.8**	ug/kg	5.0	1.8	1	06/18/09 12:37	06/22/09 10:31	78-93-3	
Carbon disulfide	**<1.1**	ug/kg	5.0	1.1	1	06/18/09 12:37	06/22/09 10:31	75-15-0	
Carbon tetrachloride	**<0.79**	ug/kg	5.0	0.79	1	06/18/09 12:37	06/22/09 10:31	56-23-5	
Chlorobenzene	**<0.21**	ug/kg	5.0	0.21	1	06/18/09 12:37	06/22/09 10:31	108-90-7	
Chloroethane	**<1.5**	ug/kg	5.0	1.5	1	06/18/09 12:37	06/22/09 10:31	75-00-3	
Chloroform	**<0.54**	ug/kg	5.0	0.54	1	06/18/09 12:37	06/22/09 10:31	67-66-3	
Chloromethane	**<0.85**	ug/kg	5.0	0.85	1	06/18/09 12:37	06/22/09 10:31	74-87-3	
Dibromochloromethane	**<0.71**	ug/kg	5.0	0.71	1	06/18/09 12:37	06/22/09 10:31	124-48-1	
1,1-Dichloroethane	**<0.69**	ug/kg	5.0	0.69	1	06/18/09 12:37	06/22/09 10:31	75-34-3	
1,2-Dichloroethane	**<0.57**	ug/kg	5.0	0.57	1	06/18/09 12:37	06/22/09 10:31	107-06-2	
1,1-Dichloroethene	**<0.52**	ug/kg	5.0	0.52	1	06/18/09 12:37	06/22/09 10:31	75-35-4	
cis-1,2-Dichloroethene	**<1.0**	ug/kg	5.0	1.0	1	06/18/09 12:37	06/22/09 10:31	156-59-2	
trans-1,2-Dichloroethene	**<0.75**	ug/kg	5.0	0.75	1	06/18/09 12:37	06/22/09 10:31	156-60-5	
1,2-Dichloropropane	**<0.64**	ug/kg	5.0	0.64	1	06/18/09 12:37	06/22/09 10:31	78-87-5	
cis-1,3-Dichloropropene	**<0.54**	ug/kg	5.0	0.54	1	06/18/09 12:37	06/22/09 10:31	10061-01-5	
trans-1,3-Dichloropropene	**<0.53**	ug/kg	5.0	0.53	1	06/18/09 12:37	06/22/09 10:31	10061-02-6	
Ethylbenzene	**<0.26**	ug/kg	5.0	0.26	1	06/18/09 12:37	06/22/09 10:31	100-41-4	
2-Hexanone	**<1.3**	ug/kg	5.0	1.3	1	06/18/09 12:37	06/22/09 10:31	591-78-6	
Methylene Chloride	**2.0J**	ug/kg	5.0	0.40	1	06/18/09 12:37	06/22/09 10:31	75-09-2	Z3
4-Methyl-2-pentanone (MIBK)	**<0.85**	ug/kg	5.0	0.85	1	06/18/09 12:37	06/22/09 10:31	108-10-1	
Methyl-tert-butyl ether	**<0.55**	ug/kg	5.0	0.55	1	06/18/09 12:37	06/22/09 10:31	1634-04-4	
Styrene	**<0.12**	ug/kg	5.0	0.12	1	06/18/09 12:37	06/22/09 10:31	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.74**	ug/kg	5.0	0.74	1	06/18/09 12:37	06/22/09 10:31	79-34-5	L2
Tetrachloroethene	**63.1**	ug/kg	5.0	0.91	1	06/18/09 12:37	06/22/09 10:31	127-18-4	
Toluene	**<0.85**	ug/kg	5.0	0.85	1	06/18/09 12:37	06/22/09 10:31	108-88-3	
1,1,1-Trichloroethane	**<0.77**	ug/kg	5.0	0.77	1	06/18/09 12:37	06/22/09 10:31	71-55-6	
1,1,2-Trichloroethane	**<0.71**	ug/kg	5.0	0.71	1	06/18/09 12:37	06/22/09 10:31	79-00-5	
Trichloroethene	**33.4**	ug/kg	5.0	0.57	1	06/18/09 12:37	06/22/09 10:31	79-01-6	
Vinyl chloride	**<0.87**	ug/kg	5.0	0.87	1	06/18/09 12:37	06/22/09 10:31	75-01-4	
m&p-Xylene	**<1.1**	ug/kg	10	1.1	1	06/18/09 12:37	06/22/09 10:31	1330-20-7	
o-Xylene	**<0.56**	ug/kg	5.0	0.56	1	06/18/09 12:37	06/22/09 10:31	95-47-6	
Dibromofluoromethane (S)	82	%	63-130		1	06/18/09 12:37	06/22/09 10:31	1868-53-7	
Toluene-d8 (S)	95	%	70-130		1	06/18/09 12:37	06/22/09 10:31	2037-26-5	
4-Bromofluorobenzene (S)	90	%	70-130		1	06/18/09 12:37	06/22/09 10:31	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**14.4**	%	0.10	0.10	1		06/24/09 07:53		

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ANALYTICAL RESULTS

Project: 71238.40 TASK 1 PLANT SITE
Pace Project No.: 4018715

Sample: CP-H-02 (2.0') **Lab ID: 4018715003** Collected: 06/16/09 16:25 Received: 06/17/09 09:40 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035 Med Level	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
Acetone	**<4190**	ug/kg	8310	4190	25	06/18/09 13:24	06/18/09 18:57	67-64-1	
Benzene	**<373**	ug/kg	831	373	25	06/18/09 13:24	06/18/09 18:57	71-43-2	
Bromodichloromethane	**<310**	ug/kg	1660	310	25	06/18/09 13:24	06/18/09 18:57	75-27-4	
Bromoform	**<861**	ug/kg	1660	861	25	06/18/09 13:24	06/18/09 18:57	75-25-2	
Bromomethane	**<747**	ug/kg	1660	747	25	06/18/09 13:24	06/18/09 18:57	74-83-9	
2-Butanone (MEK)	**<2760**	ug/kg	8310	2760	25	06/18/09 13:24	06/18/09 18:57	78-93-3	
Carbon disulfide	**<241**	ug/kg	1660	241	25	06/18/09 13:24	06/18/09 18:57	75-15-0	
Carbon tetrachloride	**<337**	ug/kg	1660	337	25	06/18/09 13:24	06/18/09 18:57	56-23-5	
Chlorobenzene	**<272**	ug/kg	1660	272	25	06/18/09 13:24	06/18/09 18:57	108-90-7	
Chloroethane	**<742**	ug/kg	1660	742	25	06/18/09 13:24	06/18/09 18:57	75-00-3	
Chloroform	**<241**	ug/kg	8310	241	25	06/18/09 13:24	06/18/09 18:57	67-66-3	
Chloromethane	**<336**	ug/kg	1660	336	25	06/18/09 13:24	06/18/09 18:57	74-87-3	
Dibromochloromethane	**<346**	ug/kg	1660	346	25	06/18/09 13:24	06/18/09 18:57	124-48-1	
1,1-Dichloroethane	**<218**	ug/kg	1660	218	25	06/18/09 13:24	06/18/09 18:57	75-34-3	
1,2-Dichloroethane	**<439**	ug/kg	831	439	25	06/18/09 13:24	06/18/09 18:57	107-06-2	
1,1-Dichloroethene	**<510**	ug/kg	1660	510	25	06/18/09 13:24	06/18/09 18:57	75-35-4	
cis-1,2-Dichloroethene	**<276**	ug/kg	1660	276	25	06/18/09 13:24	06/18/09 18:57	156-59-2	
trans-1,2-Dichloroethene	**<622**	ug/kg	1660	622	25	06/18/09 13:24	06/18/09 18:57	156-60-5	
1,2-Dichloropropane	**<283**	ug/kg	1660	283	25	06/18/09 13:24	06/18/09 18:57	78-87-5	
cis-1,3-Dichloropropene	**<317**	ug/kg	1660	317	25	06/18/09 13:24	06/18/09 18:57	10061-01-5	
trans-1,3-Dichloropropene	**<350**	ug/kg	1660	350	25	06/18/09 13:24	06/18/09 18:57	10061-02-6	
Ethylbenzene	**<340**	ug/kg	831	340	25	06/18/09 13:24	06/18/09 18:57	100-41-4	
2-Hexanone	**<1650**	ug/kg	8310	1650	25	06/18/09 13:24	06/18/09 18:57	591-78-6	
Methylene Chloride	**1430J**	ug/kg	1660	272	25	06/18/09 13:24	06/18/09 18:57	75-09-2	Z3
4-Methyl-2-pentanone (MIBK)	**<524**	ug/kg	1660	524	25	06/18/09 13:24	06/18/09 18:57	108-10-1	
Methyl-tert-butyl ether	**<303**	ug/kg	1660	303	25	06/18/09 13:24	06/18/09 18:57	1634-04-4	
Styrene	**<399**	ug/kg	1660	399	25	06/18/09 13:24	06/18/09 18:57	100-42-5	
1,1,2,2-Tetrachloroethane	**<417**	ug/kg	1660	417	25	06/18/09 13:24	06/18/09 18:57	79-34-5	
Tetrachloroethene	**225000**	ug/kg	1660	360	25	06/18/09 13:24	06/18/09 18:57	127-18-4	
Toluene	**291J**	ug/kg	1660	255	25	06/18/09 13:24	06/18/09 18:57	108-88-3	
1,1,1-Trichloroethane	**<312**	ug/kg	1660	312	25	06/18/09 13:24	06/18/09 18:57	71-55-6	
1,1,2-Trichloroethane	**<668**	ug/kg	1660	668	25	06/18/09 13:24	06/18/09 18:57	79-00-5	
Trichloroethene	**28700**	ug/kg	1660	323	25	06/18/09 13:24	06/18/09 18:57	79-01-6	
Vinyl chloride	**<333**	ug/kg	1660	333	25	06/18/09 13:24	06/18/09 18:57	75-01-4	
m&p-Xylene	**1470J**	ug/kg	1660	495	25	06/18/09 13:24	06/18/09 18:57	1330-20-7	
o-Xylene	**1840**	ug/kg	831	228	25	06/18/09 13:24	06/18/09 18:57	95-47-6	
Dibromofluoromethane (S)	89	%	63-130		25	06/18/09 13:24	06/18/09 18:57	1868-53-7	
Toluene-d8 (S)	81	%	70-130		25	06/18/09 13:24	06/18/09 18:57	2037-26-5	
4-Bromofluorobenzene (S)	77	%	70-130		25	06/18/09 13:24	06/18/09 18:57	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**24.8**	%	0.10	0.10	1		06/24/09 07:53		

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ANALYTICAL RESULTS

Project: 71238.40 TASK 1 PLANT SITE
Pace Project No.: 4018715

Sample: CP-H-02 (4.0') **Lab ID: 4018715004** Collected: 06/16/09 16:30 Received: 06/17/09 09:40 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035 Med Level	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
Acetone	**<33700**	ug/kg	67000	33700	200	06/18/09 13:24	06/18/09 19:20	67-64-1	
Benzene	**<3000**	ug/kg	6700	3000	200	06/18/09 13:24	06/18/09 19:20	71-43-2	
Bromodichloromethane	**<2500**	ug/kg	13400	2500	200	06/18/09 13:24	06/18/09 19:20	75-27-4	
Bromoform	**<6930**	ug/kg	13400	6930	200	06/18/09 13:24	06/18/09 19:20	75-25-2	
Bromomethane	**<6020**	ug/kg	13400	6020	200	06/18/09 13:24	06/18/09 19:20	74-83-9	
2-Butanone (MEK)	**<22200**	ug/kg	67000	22200	200	06/18/09 13:24	06/18/09 19:20	78-93-3	
Carbon disulfide	**<1940**	ug/kg	13400	1940	200	06/18/09 13:24	06/18/09 19:20	75-15-0	
Carbon tetrachloride	**<2720**	ug/kg	13400	2720	200	06/18/09 13:24	06/18/09 19:20	56-23-5	
Chlorobenzene	**<2190**	ug/kg	13400	2190	200	06/18/09 13:24	06/18/09 19:20	108-90-7	
Chloroethane	**<5980**	ug/kg	13400	5980	200	06/18/09 13:24	06/18/09 19:20	75-00-3	
Chloroform	**<1940**	ug/kg	67000	1940	200	06/18/09 13:24	06/18/09 19:20	67-66-3	
Chloromethane	**<2700**	ug/kg	13400	2700	200	06/18/09 13:24	06/18/09 19:20	74-87-3	
Dibromochloromethane	**<2790**	ug/kg	13400	2790	200	06/18/09 13:24	06/18/09 19:20	124-48-1	
1,1-Dichloroethane	**<1760**	ug/kg	13400	1760	200	06/18/09 13:24	06/18/09 19:20	75-34-3	
1,2-Dichloroethane	**<3530**	ug/kg	6700	3530	200	06/18/09 13:24	06/18/09 19:20	107-06-2	
1,1-Dichloroethene	**<4110**	ug/kg	13400	4110	200	06/18/09 13:24	06/18/09 19:20	75-35-4	
cis-1,2-Dichloroethene	**<2220**	ug/kg	13400	2220	200	06/18/09 13:24	06/18/09 19:20	156-59-2	
trans-1,2-Dichloroethene	**<5010**	ug/kg	13400	5010	200	06/18/09 13:24	06/18/09 19:20	156-60-5	
1,2-Dichloropropane	**<2280**	ug/kg	13400	2280	200	06/18/09 13:24	06/18/09 19:20	78-87-5	
cis-1,3-Dichloropropene	**<2560**	ug/kg	13400	2560	200	06/18/09 13:24	06/18/09 19:20	10061-01-5	
trans-1,3-Dichloropropene	**<2820**	ug/kg	13400	2820	200	06/18/09 13:24	06/18/09 19:20	10061-02-6	
Ethylbenzene	**5650J**	ug/kg	6700	2740	200	06/18/09 13:24	06/18/09 19:20	100-41-4	
2-Hexanone	**<13300**	ug/kg	67000	13300	200	06/18/09 13:24	06/18/09 19:20	591-78-6	
Methylene Chloride	**10400J**	ug/kg	13400	2190	200	06/18/09 13:24	06/18/09 19:20	75-09-2	Z3
4-Methyl-2-pentanone (MIBK)	**<4220**	ug/kg	13400	4220	200	06/18/09 13:24	06/18/09 19:20	108-10-1	
Methyl-tert-butyl ether	**<2440**	ug/kg	13400	2440	200	06/18/09 13:24	06/18/09 19:20	1634-04-4	
Styrene	**<3210**	ug/kg	13400	3210	200	06/18/09 13:24	06/18/09 19:20	100-42-5	
1,1,2,2-Tetrachloroethane	**<3360**	ug/kg	13400	3360	200	06/18/09 13:24	06/18/09 19:20	79-34-5	
Tetrachloroethene	**2250000**	ug/kg	13400	2900	200	06/18/09 13:24	06/18/09 19:20	127-18-4	
Toluene	**21500**	ug/kg	13400	2060	200	06/18/09 13:24	06/18/09 19:20	108-88-3	
1,1,1-Trichloroethane	**<2510**	ug/kg	13400	2510	200	06/18/09 13:24	06/18/09 19:20	71-55-6	
1,1,2-Trichloroethane	**<5380**	ug/kg	13400	5380	200	06/18/09 13:24	06/18/09 19:20	79-00-5	
Trichloroethene	**397000**	ug/kg	13400	2600	200	06/18/09 13:24	06/18/09 19:20	79-01-6	
Vinyl chloride	**<2680**	ug/kg	13400	2680	200	06/18/09 13:24	06/18/09 19:20	75-01-4	
m&p-Xylene	**23800**	ug/kg	13400	3990	200	06/18/09 13:24	06/18/09 19:20	1330-20-7	
o-Xylene	**19700**	ug/kg	6700	1830	200	06/18/09 13:24	06/18/09 19:20	95-47-6	
Dibromofluoromethane (S)	104	%	63-130		200	06/18/09 13:24	06/18/09 19:20	1868-53-7	S4
Toluene-d8 (S)	85	%	70-130		200	06/18/09 13:24	06/18/09 19:20	2037-26-5	S4
4-Bromofluorobenzene (S)	91	%	70-130		200	06/18/09 13:24	06/18/09 19:20	460-00-4	S4
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**25.3**	%	0.10	0.10	1		06/24/09 07:53		

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ANALYTICAL RESULTS

Project: 71238.40 TASK 1 PLANT SITE
Pace Project No.: 4018715

Sample: TBLK-09201 **Lab ID: 4018715005** Collected: 06/16/09 16:30 Received: 06/17/09 09:40 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Acetone	**<5.0**	ug/L	20.0	5.0	1		06/19/09 17:30	67-64-1	
Benzene	**<0.41**	ug/L	1.0	0.41	1		06/19/09 17:30	71-43-2	
Bromodichloromethane	**<0.56**	ug/L	1.0	0.56	1		06/19/09 17:30	75-27-4	
Bromoform	**<0.94**	ug/L	1.0	0.94	1		06/19/09 17:30	75-25-2	
Bromomethane	**<0.91**	ug/L	1.0	0.91	1		06/19/09 17:30	74-83-9	
2-Butanone (MEK)	**<4.3**	ug/L	20.0	4.3	1		06/19/09 17:30	78-93-3	
Carbon disulfide	**<0.66**	ug/L	1.0	0.66	1		06/19/09 17:30	75-15-0	
Carbon tetrachloride	**<0.49**	ug/L	1.0	0.49	1		06/19/09 17:30	56-23-5	
Chlorobenzene	**<0.41**	ug/L	1.0	0.41	1		06/19/09 17:30	108-90-7	
Chloroethane	**<0.97**	ug/L	1.0	0.97	1		06/19/09 17:30	75-00-3	
Chloroform	**<1.3**	ug/L	5.0	1.3	1		06/19/09 17:30	67-66-3	
Chloromethane	**<0.24**	ug/L	1.0	0.24	1		06/19/09 17:30	74-87-3	
Dibromochloromethane	**<0.81**	ug/L	1.0	0.81	1		06/19/09 17:30	124-48-1	
1,1-Dichloroethane	**<0.75**	ug/L	1.0	0.75	1		06/19/09 17:30	75-34-3	
1,2-Dichloroethane	**<0.36**	ug/L	1.0	0.36	1		06/19/09 17:30	107-06-2	
1,1-Dichloroethene	**<0.57**	ug/L	1.0	0.57	1		06/19/09 17:30	75-35-4	
cis-1,2-Dichloroethene	**<0.83**	ug/L	1.0	0.83	1		06/19/09 17:30	156-59-2	
trans-1,2-Dichloroethene	**<0.89**	ug/L	1.0	0.89	1		06/19/09 17:30	156-60-5	
1,2-Dichloropropane	**<0.49**	ug/L	1.0	0.49	1		06/19/09 17:30	78-87-5	
cis-1,3-Dichloropropene	**<0.20**	ug/L	1.0	0.20	1		06/19/09 17:30	10061-01-5	
trans-1,3-Dichloropropene	**<0.19**	ug/L	1.0	0.19	1		06/19/09 17:30	10061-02-6	
Ethylbenzene	**<0.54**	ug/L	1.0	0.54	1		06/19/09 17:30	100-41-4	
2-Hexanone	**<2.0**	ug/L	5.0	2.0	1		06/19/09 17:30	591-78-6	
Methylene Chloride	**<0.43**	ug/L	1.0	0.43	1		06/19/09 17:30	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<1.2**	ug/L	5.0	1.2	1		06/19/09 17:30	108-10-1	
Styrene	**<0.86**	ug/L	1.0	0.86	1		06/19/09 17:30	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.20**	ug/L	1.0	0.20	1		06/19/09 17:30	79-34-5	
Tetrachloroethene	**<0.45**	ug/L	1.0	0.45	1		06/19/09 17:30	127-18-4	
Toluene	**<0.67**	ug/L	1.0	0.67	1		06/19/09 17:30	108-88-3	
1,1,1-Trichloroethane	**<0.90**	ug/L	1.0	0.90	1		06/19/09 17:30	71-55-6	
1,1,2-Trichloroethane	**<0.42**	ug/L	1.0	0.42	1		06/19/09 17:30	79-00-5	
Trichloroethene	**<0.48**	ug/L	1.0	0.48	1		06/19/09 17:30	79-01-6	
Vinyl chloride	**<0.18**	ug/L	1.0	0.18	1		06/19/09 17:30	75-01-4	
Xylene (Total)	**<2.6**	ug/L	3.0	2.6	1		06/19/09 17:30	1330-20-7	
4-Bromofluorobenzene (S)	90	%	70-130		1		06/19/09 17:30	460-00-4	
Dibromofluoromethane (S)	101	%	70-130		1		06/19/09 17:30	1868-53-7	
Toluene-d8 (S)	96	%	70-130		1		06/19/09 17:30	2037-26-5	

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QUALITY CONTROL DATA

Project: 71238.40 TASK 1 PLANT SITE
Pace Project No.: 4018715

QC Batch: MSV/4757 Analysis Method: EPA 8260
QC Batch Method: EPA 5035/5030B Analysis Description: 8260 MSV 5035 Med Prep
Associated Lab Samples: 4018715003, 4018715004

METHOD BLANK: 171639 Matrix: Solid
Associated Lab Samples: 4018715003, 4018715004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/kg	<9.4	50.0	06/18/09 10:04	
1,1,2,2-Tetrachloroethane	ug/kg	<12.5	50.0	06/18/09 10:04	
1,1,2-Trichloroethane	ug/kg	<20.1	50.0	06/18/09 10:04	
1,1-Dichloroethane	ug/kg	<6.6	50.0	06/18/09 10:04	
1,1-Dichloroethene	ug/kg	<15.4	50.0	06/18/09 10:04	
1,2-Dichloroethane	ug/kg	<13.2	25.0	06/18/09 10:04	
1,2-Dichloropropane	ug/kg	<8.5	50.0	06/18/09 10:04	
2-Butanone (MEK)	ug/kg	<82.9	250	06/18/09 10:04	
2-Hexanone	ug/kg	<49.5	250	06/18/09 10:04	
4-Methyl-2-pentanone (MIBK)	ug/kg	<15.8	50.0	06/18/09 10:04	
Acetone	ug/kg	<126	250	06/18/09 10:04	
Benzene	ug/kg	<11.2	25.0	06/18/09 10:04	
Bromodichloromethane	ug/kg	<9.3	50.0	06/18/09 10:04	
Bromoform	ug/kg	<25.9	50.0	06/18/09 10:04	
Bromomethane	ug/kg	<22.5	50.0	06/18/09 10:04	
Carbon disulfide	ug/kg	<7.2	50.0	06/18/09 10:04	
Carbon tetrachloride	ug/kg	<10.1	50.0	06/18/09 10:04	
Chlorobenzene	ug/kg	<8.2	50.0	06/18/09 10:04	
Chloroethane	ug/kg	<22.3	50.0	06/18/09 10:04	
Chloroform	ug/kg	<7.2	250	06/18/09 10:04	
Chloromethane	ug/kg	<10.1	50.0	06/18/09 10:04	
cis-1,2-Dichloroethene	ug/kg	<8.3	50.0	06/18/09 10:04	
cis-1,3-Dichloropropene	ug/kg	<9.6	50.0	06/18/09 10:04	
Dibromochloromethane	ug/kg	<10.4	50.0	06/18/09 10:04	
Ethylbenzene	ug/kg	<10.2	25.0	06/18/09 10:04	
m&p-Xylene	ug/kg	<14.9	50.0	06/18/09 10:04	
Methyl-tert-butyl ether	ug/kg	<9.1	50.0	06/18/09 10:04	
Methylene Chloride	ug/kg	<8.2	50.0	06/18/09 10:04	
o-Xylene	ug/kg	<6.8	25.0	06/18/09 10:04	
Styrene	ug/kg	<12.0	50.0	06/18/09 10:04	
Tetrachloroethene	ug/kg	<10.8	50.0	06/18/09 10:04	
Toluene	ug/kg	<7.7	50.0	06/18/09 10:04	
trans-1,2-Dichloroethene	ug/kg	<18.7	50.0	06/18/09 10:04	
trans-1,3-Dichloropropene	ug/kg	<10.5	50.0	06/18/09 10:04	
Trichloroethene	ug/kg	<9.7	50.0	06/18/09 10:04	
Vinyl chloride	ug/kg	<10.0	50.0	06/18/09 10:04	
4-Bromofluorobenzene (S)	%	102	70-130	06/18/09 10:04	
Dibromofluoromethane (S)	%	104	63-130	06/18/09 10:04	
Toluene-d8 (S)	%	111	70-130	06/18/09 10:04	

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QUALITY CONTROL DATA

Project: 71238.40 TASK 1 PLANT SITE
Pace Project No.: 4018715

LABORATORY CONTROL SAMPLE & LCSD: 171640 171641

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/kg	2500	2880	2810	115	113	70-130	2	20	
1,1,2,2-Tetrachloroethane	ug/kg	2500	2480	2340	99	93	70-130	6	20	
1,1,2-Trichloroethane	ug/kg	2500	2520	2500	101	100	70-130	.9	20	
1,1-Dichloroethane	ug/kg	2500	2430	2320	97	93	67-137	4	20	
1,1-Dichloroethene	ug/kg	2500	2470	2390	99	96	70-130	3	20	
1,2-Dichloroethane	ug/kg	2500	2550	2490	102	100	63-134	2	20	
1,2-Dichloropropane	ug/kg	2500	2570	2500	103	100	70-130	3	20	
2-Butanone (MEK)	ug/kg	2500	2620	2600	105	104	35-150	1	42	
2-Hexanone	ug/kg	2500	1960	1860	78	74	42-157	5	20	
4-Methyl-2-pentanone (MIBK)	ug/kg	2500	2200	1990	88	80	50-150	10	20	
Acetone	ug/kg	2500	2270	2110	91	84	10-197	7	85	
Benzene	ug/kg	2500	2710	2590	109	104	70-130	5	20	
Bromodichloromethane	ug/kg	2500	2340	2290	94	92	70-130	2	20	
Bromoform	ug/kg	2500	1970	1960	79	78	64-137	.6	20	
Bromomethane	ug/kg	2500	2190	2110	88	84	66-136	4	20	
Carbon disulfide	ug/kg	2500	2230	2250	89	90	54-154	1	20	
Carbon tetrachloride	ug/kg	2500	2710	2630	108	105	70-130	3	20	
Chlorobenzene	ug/kg	2500	2440	2420	98	97	70-130	.5	20	
Chloroethane	ug/kg	2500	2390	2280	96	91	59-140	5	20	
Chloroform	ug/kg	2500	2590	2530	104	101	69-130	2	20	
Chloromethane	ug/kg	2500	2080	1980	83	79	27-141	5	20	
cis-1,2-Dichloroethene	ug/kg	2500	2620	2540	105	102	70-130	3	20	
cis-1,3-Dichloropropene	ug/kg	2500	2420	2290	97	92	70-130	5	20	
Dibromochloromethane	ug/kg	2500	2170	2140	87	85	70-130	2	20	
Ethylbenzene	ug/kg	2500	2790	2700	112	108	70-130	3	20	
m&p-Xylene	ug/kg	5000	5350	5260	107	105	70-130	2	20	
Methylene Chloride	ug/kg	2500	2540	2380	102	95	70-130	7	20	
o-Xylene	ug/kg	2500	2370	2290	95	92	70-130	3	20	
Styrene	ug/kg	2500	2110	2050	84	82	70-130	3	20	
Tetrachloroethene	ug/kg	2500	2850	2820	114	113	67-139	.9	20	
Toluene	ug/kg	2500	2840	2790	114	112	70-130	2	20	
trans-1,2-Dichloroethene	ug/kg	2500	2420	2320	97	93	70-130	4	20	
trans-1,3-Dichloropropene	ug/kg	2500	2330	2280	93	91	70-130	2	20	
Trichloroethene	ug/kg	2500	2780	2640	111	106	70-130	5	20	
Vinyl chloride	ug/kg	2500	2330	2200	93	88	65-142	6	20	
4-Bromofluorobenzene (S)	%				111	110	70-130			
Dibromofluoromethane (S)	%				110	108	63-130			
Toluene-d8 (S)	%				111	112	70-130			

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QUALITY CONTROL DATA

Project: 71238.40 TASK 1 PLANT SITE
Pace Project No.: 4018715

QC Batch: MSV/4765
QC Batch Method: EPA 8260
Analysis Method: EPA 8260
Analysis Description: 8260 MSV
Associated Lab Samples: 4018715005

METHOD BLANK: 172018
Matrix: Water
Associated Lab Samples: 4018715005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	<0.90	1.0	06/19/09 14:23	
1,1,2,2-Tetrachloroethane	ug/L	<0.20	1.0	06/19/09 14:23	
1,1,2-Trichloroethane	ug/L	<0.42	1.0	06/19/09 14:23	
1,1-Dichloroethane	ug/L	<0.75	1.0	06/19/09 14:23	
1,1-Dichloroethene	ug/L	<0.57	1.0	06/19/09 14:23	
1,2-Dichloroethane	ug/L	<0.36	1.0	06/19/09 14:23	
1,2-Dichloropropane	ug/L	<0.49	1.0	06/19/09 14:23	
2-Butanone (MEK)	ug/L	<4.3	20.0	06/19/09 14:23	
2-Hexanone	ug/L	<2.0	5.0	06/19/09 14:23	
4-Methyl-2-pentanone (MIBK)	ug/L	<1.2	5.0	06/19/09 14:23	
Acetone	ug/L	<5.0	20.0	06/19/09 14:23	
Benzene	ug/L	<0.41	1.0	06/19/09 14:23	
Bromodichloromethane	ug/L	<0.56	1.0	06/19/09 14:23	
Bromoform	ug/L	<0.94	1.0	06/19/09 14:23	
Bromomethane	ug/L	<0.91	1.0	06/19/09 14:23	
Carbon disulfide	ug/L	<0.66	1.0	06/19/09 14:23	
Carbon tetrachloride	ug/L	<0.49	1.0	06/19/09 14:23	
Chlorobenzene	ug/L	<0.41	1.0	06/19/09 14:23	
Chloroethane	ug/L	<0.97	1.0	06/19/09 14:23	
Chloroform	ug/L	<1.3	5.0	06/19/09 14:23	
Chloromethane	ug/L	<0.24	1.0	06/19/09 14:23	
cis-1,2-Dichloroethene	ug/L	<0.83	1.0	06/19/09 14:23	
cis-1,3-Dichloropropene	ug/L	<0.20	1.0	06/19/09 14:23	
Dibromochloromethane	ug/L	<0.81	1.0	06/19/09 14:23	
Ethylbenzene	ug/L	<0.54	1.0	06/19/09 14:23	
Methylene Chloride	ug/L	<0.43	1.0	06/19/09 14:23	
Styrene	ug/L	<0.86	1.0	06/19/09 14:23	
Tetrachloroethene	ug/L	<0.45	1.0	06/19/09 14:23	
Toluene	ug/L	<0.67	1.0	06/19/09 14:23	
trans-1,2-Dichloroethene	ug/L	<0.89	1.0	06/19/09 14:23	
trans-1,3-Dichloropropene	ug/L	<0.19	1.0	06/19/09 14:23	
Trichloroethene	ug/L	<0.48	1.0	06/19/09 14:23	
Vinyl chloride	ug/L	<0.18	1.0	06/19/09 14:23	
Xylene (Total)	ug/L	<2.6	3.0	06/19/09 14:23	
4-Bromofluorobenzene (S)	%	90	70-130	06/19/09 14:23	
Dibromofluoromethane (S)	%	101	70-130	06/19/09 14:23	
Toluene-d8 (S)	%	95	70-130	06/19/09 14:23	

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QUALITY CONTROL DATA

Project: 71238.40 TASK 1 PLANT SITE
Pace Project No.: 4018715

LABORATORY CONTROL SAMPLE & LCSD: 172019 172020

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/L	50	46.7	48.2	93	96	70-132	3	20	
1,1,2,2-Tetrachloroethane	ug/L	50	56.6	56.0	113	112	69-130	1	20	
1,1,2-Trichloroethane	ug/L	50	51.3	51.9	103	104	70-130	1	20	
1,1-Dichloroethane	ug/L	50	52.8	53.4	106	107	70-130	1	20	
1,1-Dichloroethene	ug/L	50	42.1	42.6	84	85	70-130	1	20	
1,2-Dichloroethane	ug/L	50	53.4	53.4	107	107	70-134	.04	20	
1,2-Dichloropropane	ug/L	50	49.8	49.8	100	100	70-130	.05	20	
2-Butanone (MEK)	ug/L	50	59.1	57.1	118	114	36-181	3	35	
2-Hexanone	ug/L	50	49.2	48.4	98	97	46-171	2	27	
4-Methyl-2-pentanone (MIBK)	ug/L	50	48.3	45.7	97	91	50-150	6	20	
Acetone	ug/L	50	36.6	35.2	73	70	10-200	4	36	
Benzene	ug/L	50	54.6	55.0	109	110	70-131	.7	20	
Bromodichloromethane	ug/L	50	44.0	42.8	88	86	70-130	3	20	
Bromoform	ug/L	50	38.0	38.3	76	77	70-130	.7	20	
Bromomethane	ug/L	50	44.1	44.5	88	89	23-200	.8	20	
Carbon disulfide	ug/L	50	39.6	40.5	79	81	70-138	2	20	
Carbon tetrachloride	ug/L	50	43.3	45.5	87	91	70-144	5	20	
Chlorobenzene	ug/L	50	51.4	50.0	103	100	70-130	3	20	
Chloroethane	ug/L	50	43.2	43.2	86	86	70-136	.1	20	
Chloroform	ug/L	50	52.9	54.0	106	108	70-130	2	20	
Chloromethane	ug/L	50	48.9	49.5	98	99	54-148	1	20	
cis-1,2-Dichloroethene	ug/L	50	54.4	53.9	109	108	70-130	.9	20	
cis-1,3-Dichloropropene	ug/L	50	45.4	44.7	91	89	70-130	2	20	
Dibromochloromethane	ug/L	50	43.6	43.3	87	87	70-130	.7	20	
Ethylbenzene	ug/L	50	51.3	50.3	103	101	70-130	2	20	
Methylene Chloride	ug/L	50	40.9	41.6	82	83	66-130	2	20	
Styrene	ug/L	50	46.9	45.2	94	90	70-130	4	20	
Tetrachloroethene	ug/L	50	50.4	50.2	101	100	75-130	.4	20	
Toluene	ug/L	50	50.2	49.6	100	99	70-130	1	20	
trans-1,2-Dichloroethene	ug/L	50	52.5	51.0	105	102	70-130	3	20	
trans-1,3-Dichloropropene	ug/L	50	42.6	42.4	85	85	70-130	.5	20	
Trichloroethene	ug/L	50	51.5	49.9	103	100	70-130	3	20	
Vinyl chloride	ug/L	50	47.1	46.7	94	93	63-141	.7	20	
Xylene (Total)	ug/L	150	150	148	100	99	70-130	2	20	
4-Bromofluorobenzene (S)	%				92	90	70-130			
Dibromofluoromethane (S)	%				103	106	70-130			
Toluene-d8 (S)	%				98	95	70-130			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 172334 172335

Parameter	Units	4018810002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1-Trichloroethane	ug/L	<0.90	50	50	51.7	48.6	103	97	70-137	6	20	
1,1,2,2-Tetrachloroethane	ug/L	<0.20	50	50	61.4	60.0	123	120	67-130	2	20	
1,1,2-Trichloroethane	ug/L	<0.42	50	50	56.0	52.6	112	105	70-130	6	20	
1,1-Dichloroethane	ug/L	<0.75	50	50	55.7	53.5	111	107	70-130	4	20	
1,1-Dichloroethene	ug/L	<0.57	50	50	43.8	42.1	88	84	70-130	4	20	

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QUALITY CONTROL DATA

Project: 71238.40 TASK 1 PLANT SITE
Pace Project No.: 4018715

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 172334 172335

Parameter	Units	4018810002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dichloroethane	ug/L	<0.36	50	50	58.4	54.1	117	108	69-134	8	20	
1,2-Dichloropropane	ug/L	<0.49	50	50	53.6	51.8	107	104	70-130	4	20	
2-Butanone (MEK)	ug/L	<4.3	50	50	62.2	62.0	124	124	36-181	.4	35	
2-Hexanone	ug/L	<2.0	50	50	56.2	53.5	112	107	46-171	5	27	
4-Methyl-2-pentanone (MIBK)	ug/L	<1.2	50	50	53.5	52.3	107	105	50-150	2	20	
Acetone	ug/L	<5.0	50	50	44.0	42.3	88	85	10-200	4	36	
Benzene	ug/L	<0.41	50	50	58.9	55.2	118	110	69-131	7	20	
Bromodichloromethane	ug/L	<0.56	50	50	46.8	44.9	94	90	70-130	4	20	
Bromoform	ug/L	<0.94	50	50	41.7	38.5	83	77	68-130	8	20	
Bromomethane	ug/L	<0.91	50	50	44.3	44.2	89	88	22-200	.4	20	
Carbon disulfide	ug/L	<0.66	50	50	41.8	31.6	84	63	68-138	28	20	M0,R1
Carbon tetrachloride	ug/L	<0.49	50	50	48.7	46.2	97	92	70-144	5	20	
Chlorobenzene	ug/L	<0.41	50	50	54.4	53.0	109	106	70-130	3	20	
Chloroethane	ug/L	<0.97	50	50	44.7	42.4	89	85	66-136	5	20	
Chloroform	ug/L	<1.3	50	50	56.7	53.7	113	107	70-130	5	20	
Chloromethane	ug/L	<0.24	50	50	48.6	47.2	97	94	54-148	3	20	
cis-1,2-Dichloroethene	ug/L	<0.83	50	50	58.1	54.7	116	109	70-130	6	20	
cis-1,3-Dichloropropene	ug/L	<0.20	50	50	49.1	46.5	98	93	70-130	5	20	
Dibromochloromethane	ug/L	<0.81	50	50	47.5	45.2	95	90	70-130	5	20	
Ethylbenzene	ug/L	<0.54	50	50	53.7	51.4	107	103	70-130	4	20	
Methylene Chloride	ug/L	<0.43	50	50	42.4	41.3	85	83	64-130	3	20	
Styrene	ug/L	<0.86	50	50	44.4	37.7	89	75	43-130	16	20	
Tetrachloroethene	ug/L	<0.45	50	50	53.6	51.5	107	103	70-130	4	20	
Toluene	ug/L	<0.67	50	50	53.0	50.6	106	101	70-130	5	20	
trans-1,2-Dichloroethene	ug/L	<0.89	50	50	53.0	51.2	106	102	70-130	3	20	
trans-1,3-Dichloropropene	ug/L	<0.19	50	50	46.1	44.9	92	90	70-130	3	20	
Trichloroethene	ug/L	<0.48	50	50	53.6	51.7	107	103	70-130	4	20	
Vinyl chloride	ug/L	<0.18	50	50	47.0	43.9	94	88	59-141	7	20	
Xylene (Total)	ug/L	<2.6	150	150	157	148	105	99	70-130	6	20	
4-Bromofluorobenzene (S)	%						90	90	70-130			
Dibromofluoromethane (S)	%						101	100	70-130			
Toluene-d8 (S)	%						95	97	70-130			

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QUALITY CONTROL DATA

Project: 71238.40 TASK 1 PLANT SITE
Pace Project No.: 4018715

QC Batch: MSV/4795
QC Batch Method: EPA 8260
Analysis Method: EPA 8260
Analysis Description: 8260 MSV 5035 Low Level
Associated Lab Samples: 4018715001, 4018715002

METHOD BLANK: 173461
Matrix: Solid
Associated Lab Samples: 4018715001, 4018715002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/kg	<0.77	5.0	06/22/09 08:57	
1,1,2,2-Tetrachloroethane	ug/kg	<0.74	5.0	06/22/09 08:57	
1,1,2-Trichloroethane	ug/kg	<0.71	5.0	06/22/09 08:57	
1,1-Dichloroethane	ug/kg	<0.69	5.0	06/22/09 08:57	
1,1-Dichloroethene	ug/kg	<0.52	5.0	06/22/09 08:57	
1,2-Dichloroethane	ug/kg	<0.57	5.0	06/22/09 08:57	
1,2-Dichloropropane	ug/kg	<0.64	5.0	06/22/09 08:57	
2-Butanone (MEK)	ug/kg	<1.8	5.0	06/22/09 08:57	
2-Hexanone	ug/kg	<1.3	5.0	06/22/09 08:57	
4-Methyl-2-pentanone (MIBK)	ug/kg	<0.85	5.0	06/22/09 08:57	
Acetone	ug/kg	<6.7	20.0	06/22/09 08:57	
Benzene	ug/kg	<0.61	5.0	06/22/09 08:57	
Bromodichloromethane	ug/kg	<0.35	5.0	06/22/09 08:57	
Bromoform	ug/kg	<0.99	5.0	06/22/09 08:57	
Bromomethane	ug/kg	<1.1	5.0	06/22/09 08:57	
Carbon disulfide	ug/kg	<1.1	5.0	06/22/09 08:57	
Carbon tetrachloride	ug/kg	<0.80	5.0	06/22/09 08:57	
Chlorobenzene	ug/kg	<0.21	5.0	06/22/09 08:57	
Chloroethane	ug/kg	<1.5	5.0	06/22/09 08:57	
Chloroform	ug/kg	<0.54	5.0	06/22/09 08:57	
Chloromethane	ug/kg	<0.85	5.0	06/22/09 08:57	
cis-1,2-Dichloroethene	ug/kg	<1.0	5.0	06/22/09 08:57	
cis-1,3-Dichloropropene	ug/kg	<0.54	5.0	06/22/09 08:57	
Dibromochloromethane	ug/kg	<0.71	5.0	06/22/09 08:57	
Ethylbenzene	ug/kg	<0.26	5.0	06/22/09 08:57	
m&p-Xylene	ug/kg	<1.1	10.0	06/22/09 08:57	
Methyl-tert-butyl ether	ug/kg	<0.55	5.0	06/22/09 08:57	
Methylene Chloride	ug/kg	<0.40	5.0	06/22/09 08:57	
o-Xylene	ug/kg	<0.56	5.0	06/22/09 08:57	
Styrene	ug/kg	<0.12	5.0	06/22/09 08:57	
Tetrachloroethene	ug/kg	<0.92	5.0	06/22/09 08:57	
Toluene	ug/kg	<0.85	5.0	06/22/09 08:57	
trans-1,2-Dichloroethene	ug/kg	<0.75	5.0	06/22/09 08:57	
trans-1,3-Dichloropropene	ug/kg	<0.53	5.0	06/22/09 08:57	
Trichloroethene	ug/kg	<0.57	5.0	06/22/09 08:57	
Vinyl chloride	ug/kg	<0.87	5.0	06/22/09 08:57	
4-Bromofluorobenzene (S)	%	89	70-130	06/22/09 08:57	
Dibromofluoromethane (S)	%	78	63-130	06/22/09 08:57	
Toluene-d8 (S)	%	95	70-130	06/22/09 08:57	

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QUALITY CONTROL DATA

Project: 71238.40 TASK 1 PLANT SITE
Pace Project No.: 4018715

LABORATORY CONTROL SAMPLE & LCSD: 173462 173463

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/kg	50	49.3	50.2	99	100	70-130	2	20	
1,1,2,2-Tetrachloroethane	ug/kg	50	33.4	33.0	67	66	70-130	1	20	L0
1,1,2-Trichloroethane	ug/kg	50	45.0	46.3	90	93	70-130	3	20	
1,1-Dichloroethane	ug/kg	50	41.3	42.5	83	85	67-137	3	20	
1,1-Dichloroethene	ug/kg	50	56.8	55.9	114	112	70-130	2	20	
1,2-Dichloroethane	ug/kg	50	42.7	42.0	85	84	63-134	2	20	
1,2-Dichloropropane	ug/kg	50	43.8	43.9	88	88	70-130	.04	20	
2-Butanone (MEK)	ug/kg	50	27.0	30.5	54	61	35-150	12	42	
2-Hexanone	ug/kg	50	35.9	36.7	72	73	42-157	2	20	
4-Methyl-2-pentanone (MIBK)	ug/kg	50	38.3	38.3	77	77	50-150	.2	20	
Acetone	ug/kg	50	21.5	23.4	43	47	10-197	9	85	
Benzene	ug/kg	50	45.5	45.7	91	91	70-130	.4	20	
Bromodichloromethane	ug/kg	50	48.6	48.3	97	97	70-130	.7	20	
Bromoform	ug/kg	50	54.0	53.7	108	107	64-137	.5	20	
Bromomethane	ug/kg	50	62.1	61.0	124	122	66-136	2	20	
Carbon disulfide	ug/kg	50	53.0	52.4	106	105	54-154	1	20	
Carbon tetrachloride	ug/kg	50	52.4	52.5	105	105	70-130	.1	20	
Chlorobenzene	ug/kg	50	53.1	53.3	106	107	70-130	.3	20	
Chloroethane	ug/kg	50	52.5	53.8	105	108	59-140	2	20	
Chloroform	ug/kg	50	44.6	44.3	89	89	69-130	.6	20	
Chloromethane	ug/kg	50	51.3	50.8	103	102	27-141	.9	20	
cis-1,2-Dichloroethene	ug/kg	50	46.8	46.1	94	92	70-130	2	20	
cis-1,3-Dichloropropene	ug/kg	50	47.1	46.7	94	93	70-130	.9	20	
Dibromochloromethane	ug/kg	50	49.6	49.2	99	98	70-130	.8	20	
Ethylbenzene	ug/kg	50	51.3	51.7	103	103	70-130	.9	20	
m&p-Xylene	ug/kg	100	112	114	112	114	70-130	2	20	
Methylene Chloride	ug/kg	50	43.1	43.8	86	88	70-130	2	20	
o-Xylene	ug/kg	50	53.1	54.6	106	109	70-130	3	20	
Styrene	ug/kg	50	48.9	50.6	98	101	70-130	3	20	
Tetrachloroethene	ug/kg	50	62.5	63.9	125	128	67-139	2	20	
Toluene	ug/kg	50	52.3	52.0	105	104	70-130	.5	20	
trans-1,2-Dichloroethene	ug/kg	50	48.0	48.3	96	97	70-130	.6	20	
trans-1,3-Dichloropropene	ug/kg	50	45.3	44.6	91	89	70-130	2	20	
Trichloroethene	ug/kg	50	55.7	56.4	111	113	70-130	1	20	
Vinyl chloride	ug/kg	50	55.4	54.6	111	109	65-142	1	20	
4-Bromofluorobenzene (S)	%				91	88	70-130			
Dibromofluoromethane (S)	%				81	80	63-130			
Toluene-d8 (S)	%				97	96	70-130			

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QUALITY CONTROL DATA

Project: 71238.40 TASK 1 PLANT SITE
Pace Project No.: 4018715

QC Batch: PMST/2617 Analysis Method: ASTM D2974-87
QC Batch Method: ASTM D2974-87 Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 4018715001, 4018715002, 4018715003, 4018715004

SAMPLE DUPLICATE: 173692

Parameter	Units	4018816001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	ND	<0.10		10	

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QUALIFIERS

Project: 71238.40 TASK 1 PLANT SITE
Pace Project No.: 4018715

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

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U - Indicates the compound was analyzed for, but not detected.

LABORATORIES

PASI-G	Pace Analytical Services - Green Bay

BATCH QUALIFIERS

Batch: MSV/4758

[M5]	A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

Batch: MSV/4795

[M5]	A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

ANALYTE QUALIFIERS

L0	Analyte recovery in the laboratory control sample (LCS) was outside QC limits.
L2	Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results may be biased low.
M0	Matrix spike recovery was outside laboratory control limits.
R1	RPD value was outside control limits.
S4	Surrogate recovery not evaluated against control limits due to sample dilution.
Z3	Methylene chloride is a common laboratory contaminant. Results for this analyte should be considered estimated unless the amount found in the sample is 3 to 5 times higher than that found in the method blank.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 71238.40 TASK 1 PLANT SITE
Pace Project No.: 4018715

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
4018715001	**CP-H-03 (20.0')**	EPA 5035A	MSV/4755	EPA 8260	MSV/4795
4018715002	**CP-H-03 (24.0')**	EPA 5035A	MSV/4755	EPA 8260	MSV/4795
4018715003	**CP-H-02 (2.0')**	EPA 5035/5030B	MSV/4757	EPA 8260	MSV/4758
4018715004	**CP-H-02 (4.0')**	EPA 5035/5030B	MSV/4757	EPA 8260	MSV/4758
4018715005	**TBLK-09201**	EPA 8260	MSV/4765		
4018715001	**CP-H-03 (20.0')**	ASTM D2974-87	PMST/2617		
4018715002	**CP-H-03 (24.0')**	ASTM D2974-87	PMST/2617		
4018715003	**CP-H-02 (2.0')**	ASTM D2974-87	PMST/2617		
4018715004	**CP-H-02 (4.0')**	ASTM D2974-87	PMST/2617		

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CHAIN OF CUSTODY

4018715

(Please Print Clearly)	
Company Name:	RMT
Branch/Location:	Greenville, SC
Project Contact:	Terry Hertz
Phone:	864-234-9
Project Number:	71238.40 Task 1
Project Name:	Plant Site
Project State:	SC
Sampled By (Print):	WEM
Sampled By (Sign):	[signature]
PO #:	
Regulatory Program:	

*Preservation Codes
A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH
H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

FILTERED? (YES/NO)
PRESERVATION (CODE)*

Quote #:	
Mail To Contact:	
Mail To Company:	
Mail To Address:	
Invoice To Contact:	
Invoice To Company:	
Invoice To Address:	
Invoice To Phone:	

Data Package Options (billable)
- ☐ EPA Level III
- ☐ EPA Level IV

MS/MSD
- ☐ On your sample (billable)
- ☐ NOT needed on your sample

Matrix Codes
A = Air, B = Biota, C = Charcoal, O = Oil, S = Soil, SI = Sludge, W = Water, DW = Drinking Water, GW = Ground Water, SW = Surface Water, WW = Waste Water, WP = Wipe

PACE LAB #	CLIENT FIELD ID	COLLECTION DATE	COLLECTION TIME	MATRIX	Analyses Requested: Y/N	VOCs	Moisture	CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
					Pick Letter	F/E	A			
001	CP-H-03 (20.0')	6-16	1550	Soil		X	X	3-40mL EEF, 1-125mL AG		
002	CP-H-03 (24.0')	6-16	1605	Soil		X	X	↓	↓	
003	CP-H-02 (2.0')	6-16	1625	Soil		X	X			
004	CP-H-02 (4.0')	6-16	1630	Soil		X	X			
005	TBLK-09201					X		2-40mL B		

Rush Turnaround Time Requested - Prelims
(Rush TAT subject to approval/surcharge)
Date Needed:

Transmit Prelim Rush Results by (complete what you want):
Email #1:
Email #2:
Telephone:
Fax:

Samples on HOLD are subject to special pricing and release of liability

Relinquished By:	Date/Time:	Received By:	Date/Time:
[signature]	6/16/09 1830	FedEx 8628 8759 1184	6/16/09 1830
FedEx	6-17-09 940	[signature]	6-17-09 940

PACE Project No. 4018715
Receipt Temp = 1 °C
Sample Receipt pH OK / Adjusted
Cooler Custody Seal Present / Not Present Intact / Not Intact

Version 5.0 06/14/08

C019a(27Jun2006)

ORIGINAL

Sample Condition Upon Receipt

Pace Analytical

Client Name: RMT Project # 4018715

Courier: ☑ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace Other _____

Tracking #: _____

Optional
Proj. Due Date:
Proj. Name:

Custody Seal on Cooler/Box Present: ☐ yes ☑ no Seals intact: ☐ yes ☐ no

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ None ☑ Other Poly Bag

Thermometer Used JB **Type of Ice:** (Wet) Blue None ☐ Samples on ice, cooling process has begun

Cooler Temperature 10 **Biological Tissue is Frozen:** Yes No

Temp should be above freezing to 6°C

Date and Initials of person examining contents: 6-17-09

Comments:

Chain of Custody Present:	☑Yes	☐No	☐N/A	1.
Chain of Custody Filled Out:	☑Yes	☐No	☐N/A	2.
Chain of Custody Relinquished:	☑Yes	☐No	☐N/A	3.
Sampler Name & Signature on COC:	☑Yes	☐No	☐N/A	4.
Samples Arrived within Hold Time:	☑Yes	☐No	☐N/A	5.
Short Hold Time Analysis (<72hr):	☐Yes	☑No	☐N/A	6.
Rush Turn Around Time Requested:	☐Yes	☑No	☐N/A	7.
Sufficient Volume:	☑Yes	☐No	☐N/A	8.
Correct Containers Used:	☑Yes	☐No	☐N/A	9.
-Pace Containers Used:	☑Yes	☐No	☐N/A	
Containers Intact:	☑Yes	☐No	☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes	☐No	☑N/A	11.
Sample Labels match COC:	☑Yes	☐No	☐N/A	12.
-Includes date/time/ID/Analysis Matrix: S				
All containers needing preservation have been checked.	☐Yes	☐No	☑N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☐Yes	☐No	☐N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☐Yes	☐No		Initial when completed / Lot # of added preservative
Samples checked for dechlorination:	☐Yes	☐No	☑N/A	14.
Headspace in VOA Vials (>6mm):	☑Yes	☐No	☐N/A	15.
Trip Blank Present:	☑Yes	☐No	☐N/A	16.
Trip Blank Custody Seals Present	☑Yes	☐No	☐N/A	
Pace Trip Blank Lot # (if purchased):				

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____ **Date:** 6/18/09

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

Samples Collected 06/17/09

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(920)469-2436

July 02, 2009

Mark Bailey
RMT Greenville
30 Patewood Drive
Suite100, Patewood Plaza One
Greenville, SC 296153535

RE: Project: 71238.40 TASK 1 PLANT SITE
Pace Project No.: 4018864

Dear Mark Bailey:
Enclosed are the analytical results for sample(s) received by the laboratory on June 19, 2009. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Kang Khang

kang.khang@pacelabs.com
Project Manager

Enclosures

cc: Lisa Clark, RMT - GREENVILLE
Terry Hertz, RMT GREENVILLE

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CoCs - SIGNED; TEMP-OK; HT-OK; NARR-OK

SURRS - RECS OK EXCEPT FOR HIGH REC OF ALL THREE SURROGATES IN CP-D-03 21.3-21.8.

• TCE, PCE AND XYLENE (TOTAL) ARE ASSIGNED A "J" FLAG IN CP-D-03/21.3-21.8.

June 25, 2009

TBLK-09203 — CLEAN
MBLKS — CLEAN
LCS/LCSD - RECS & RPDS OK EXCEPT FOR RECS OF 1,1,2,2-TETRACHLOROETHANE IN LCS 173462 AND LCSD 173463. THIS LCS/LCSD IS ASSOCIATED WITH SAMPLES CP-D-02/25.0 AND CP-D-03/11.5-12.0. LCS/LRec FOR 1,1,2,2-TCA WERE 3-4% BELOW THE LCL — SINCE THE RECOVERY WAS NOT FAR BELOW THE LCL, AN "r" FLAG (SUGGESTED BY VALIDATION GUIDANCE) WAS NOT ASSIGNED.

Mark Bailey
RMT Greenville
30 Patewood Drive
Suite100, Patewood Plaza One
Greenville, SC 296153535

RE: Project: 71238.40 TASK 1 PLANT SITE
Pace Project No.: 4018864

• 1,1,2,2-TETRACHLOROETHANE IN CP-D-02/25.0 AND CP-D-03/11.5-12.0 IS ASSIGNED A "uj" FLAG.

Dear Mark Bailey:

LAB DUP - RPD OK (FOR % MOISTURE)

Enclosed are the analytical results for sample(s) received by the laboratory on June 19, 2009. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

MS/MSD - ANALYZED FOR AQUEOUS FRACTION ONLY, BATCH QC, RPDs & RECS OK.

Sincerely,

Kang Khang

Kang Khang

kang.khang@pacelabs.com
Project Manager

GK 6/26/09

Enclosures

cc: Lisa Clark, RMT - GREENVILLE
Terry Hertz, RMT GREENVILLE

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CERTIFICATIONS

Project: 71238.40 TASK 1 PLANT SITE
Pace Project No.: 4018864

Green Bay Certification IDs

Wisconsin DATCP Certification #: 105-444
Wisconsin DATCP Certification #: 105-444
Wisconsin Certification #: 405132750
Wisconsin Certification #: 405132750
South Carolina Certification #: 83006001
South Carolina Certification #: 83006001
North Dakota Certification #: R-200
North Dakota Certification #: R-150
North Carolina Certification #: 503
North Carolina Certification #: 503
New York Certification #: 11887
New York Certification #: 11888
Minnesota Certification #: 055-999-334
Minnesota Certification #: 055-999-334
Louisiana Certification #: 04169
Louisiana Certification #: 04168
Kentucky Certification #: 83
Kentucky Certification #: 82
Illinois Certification #: 200051
Illinois Certification #: 200050
Florida/NELAP Certification #: E87951
Florida/NELAP Certification #: E87948

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SAMPLE SUMMARY

Project: 71238.40 TASK 1 PLANT SITE
Pace Project No.: 4018864

Lab ID	Sample ID	Matrix	Date Collected	Date Received
4018864001	CP-D-02 25.0'	Solid	06/18/09 08:00	06/19/09 10:00
4018864002	CP-D-03 11.5'-12.0'	Solid	06/18/09 12:50	06/19/09 10:00
4018864003	CP-D-03 21.3'-21.8'	Solid	06/18/09 13:30	06/19/09 10:00
4018864004	TBLK-09203	Water	06/18/09 00:00	06/19/09 10:00

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SAMPLE ANALYTE COUNT

Project: 71238.40 TASK 1 PLANT SITE
Pace Project No.: 4018864

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
4018864001	**CP-D-02 25.0'**	ASTM D2974-87	AME	1	PASI-G
		EPA 8260	JJB	37	PASI-G
4018864002	**CP-D-03 11.5'-12.0'**	ASTM D2974-87	AME	1	PASI-G
		EPA 8260	JJB	37	PASI-G
4018864003	**CP-D-03 21.3'-21.8'**	ASTM D2974-87	AME	1	PASI-G
		EPA 8260	JJB	37	PASI-G
4018864004	**TBLK-09203**	EPA 8260	HNW	37	PASI-G

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PROJECT NARRATIVE

Project: 71238.40 TASK 1 PLANT SITE
Pace Project No.: 4018864

Method: EPA 8260
Description: 8260 MSV
Client: RMT - GREENVILLE
Date: July 02, 2009

General Information:
1 sample was analyzed for EPA 8260. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: 71238.40 TASK 1 PLANT SITE
Pace Project No.: 4018864

Method: EPA 8260
Description: 8260 MSV 5035 Low Level
Client: RMT - GREENVILLE
Date: July 02, 2009

General Information:
2 samples were analyzed for EPA 8260. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 5035A with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

QC Batch: MSV/4795

L0: Analyte recovery in the laboratory control sample (LCS) was outside QC limits.

- LCS (Lab ID: 173462)
  - 1,1,2,2-Tetrachloroethane
- LCSD (Lab ID: 173463)
  - 1,1,2,2-Tetrachloroethane

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: MSV/4795

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: 71238.40 TASK 1 PLANT SITE
Pace Project No.: 4018864

Method: EPA 8260
Description: 8260 MSV 5035 Med Level
Client: RMT - GREENVILLE
Date: July 02, 2009

General Information:
1 sample was analyzed for EPA 8260. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 5035/5030B with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

Analyte Comments:

QC Batch: MSV/4806

1j: Surrogate recovery outside laboratory control limits due to methanol leakage.
- CP-D-03 21.3'-21.8' (Lab ID: 4018864003)
  - 4-Bromofluorobenzene (S)
  - Dibromofluoromethane (S)
  - Toluene-d8 (S)

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PROJECT NARRATIVE

Project: 71238.40 TASK 1 PLANT SITE
Pace Project No.: 4018864

Method: **ASTM D2974-87**
Description: Percent Moisture
Client: RMT - GREENVILLE
Date: July 02, 2009

General Information:
3 samples were analyzed for ASTM D2974-87. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: 71238.40 TASK 1 PLANT SITE
Pace Project No.: 4018864

Sample: CP-D-02 25.0' **Lab ID: 4018864001** Collected: 06/18/09 08:00 Received: 06/19/09 10:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035 Low Level	Analytical Method: EPA 8260 Preparation Method: EPA 5035A								
Acetone	**75.5**	ug/kg	24.0	8.0	1	06/22/09 07:47	06/22/09 14:51	67-64-1	
Benzene	**<0.74**	ug/kg	6.0	0.74	1	06/22/09 07:47	06/22/09 14:51	71-43-2	
Bromodichloromethane	**<0.42**	ug/kg	6.0	0.42	1	06/22/09 07:47	06/22/09 14:51	75-27-4	
Bromoform	**<1.2**	ug/kg	6.0	1.2	1	06/22/09 07:47	06/22/09 14:51	75-25-2	
Bromomethane	**<1.4**	ug/kg	6.0	1.4	1	06/22/09 07:47	06/22/09 14:51	74-83-9	
2-Butanone (MEK)	**<2.2**	ug/kg	6.0	2.2	1	06/22/09 07:47	06/22/09 14:51	78-93-3	
Carbon disulfide	**<1.3**	ug/kg	6.0	1.3	1	06/22/09 07:47	06/22/09 14:51	75-15-0	
Carbon tetrachloride	**<0.95**	ug/kg	6.0	0.95	1	06/22/09 07:47	06/22/09 14:51	56-23-5	
Chlorobenzene	**<0.25**	ug/kg	6.0	0.25	1	06/22/09 07:47	06/22/09 14:51	108-90-7	
Chloroethane	**<1.7**	ug/kg	6.0	1.7	1	06/22/09 07:47	06/22/09 14:51	75-00-3	
Chloroform	**<0.65**	ug/kg	6.0	0.65	1	06/22/09 07:47	06/22/09 14:51	67-66-3	
Chloromethane	**<1.0**	ug/kg	6.0	1.0	1	06/22/09 07:47	06/22/09 14:51	74-87-3	
Dibromochloromethane	**<0.85**	ug/kg	6.0	0.85	1	06/22/09 07:47	06/22/09 14:51	124-48-1	
1,1-Dichloroethane	**<0.83**	ug/kg	6.0	0.83	1	06/22/09 07:47	06/22/09 14:51	75-34-3	
1,2-Dichloroethane	**<0.69**	ug/kg	6.0	0.69	1	06/22/09 07:47	06/22/09 14:51	107-06-2	
1,1-Dichloroethene	**<0.63**	ug/kg	6.0	0.63	1	06/22/09 07:47	06/22/09 14:51	75-35-4	
cis-1,2-Dichloroethene	**<1.2**	ug/kg	6.0	1.2	1	06/22/09 07:47	06/22/09 14:51	156-59-2	
trans-1,2-Dichloroethene	**<0.90**	ug/kg	6.0	0.90	1	06/22/09 07:47	06/22/09 14:51	156-60-5	
1,2-Dichloropropane	**<0.76**	ug/kg	6.0	0.76	1	06/22/09 07:47	06/22/09 14:51	78-87-5	
cis-1,3-Dichloropropene	**<0.65**	ug/kg	6.0	0.65	1	06/22/09 07:47	06/22/09 14:51	10061-01-5	
trans-1,3-Dichloropropene	**<0.63**	ug/kg	6.0	0.63	1	06/22/09 07:47	06/22/09 14:51	10061-02-6	
Ethylbenzene	**<0.32**	ug/kg	6.0	0.32	1	06/22/09 07:47	06/22/09 14:51	100-41-4	
2-Hexanone	**<1.6**	ug/kg	6.0	1.6	1	06/22/09 07:47	06/22/09 14:51	591-78-6	
Methylene Chloride	**<0.48**	ug/kg	6.0	0.48	1	06/22/09 07:47	06/22/09 14:51	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<1.0**	ug/kg	6.0	1.0	1	06/22/09 07:47	06/22/09 14:51	108-10-1	
Styrene	**<0.14**	ug/kg	6.0	0.14	1	06/22/09 07:47	06/22/09 14:51	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.89**	ug/kg	6.0	0.89	1	06/22/09 07:47	06/22/09 14:51	79-34-5	L2
Tetrachloroethene	**3.5J**	ug/kg	6.0	1.1	1	06/22/09 07:47	06/22/09 14:51	127-18-4	
Toluene	**<1.0**	ug/kg	6.0	1.0	1	06/22/09 07:47	06/22/09 14:51	108-88-3	
1,1,1-Trichloroethane	**<0.93**	ug/kg	6.0	0.93	1	06/22/09 07:47	06/22/09 14:51	71-55-6	
1,1,2-Trichloroethane	**<0.86**	ug/kg	6.0	0.86	1	06/22/09 07:47	06/22/09 14:51	79-00-5	
Trichloroethene	**0.99J**	ug/kg	6.0	0.69	1	06/22/09 07:47	06/22/09 14:51	79-01-6	
Vinyl chloride	**<1.0**	ug/kg	6.0	1.0	1	06/22/09 07:47	06/22/09 14:51	75-01-4	
Xylene (Total)	**<2.0**	ug/kg	18.0	2.0	1	06/22/09 07:47	06/22/09 14:51	1330-20-7	
Dibromofluoromethane (S)	88	%	63-130		1	06/22/09 07:47	06/22/09 14:51	1868-53-7	
Toluene-d8 (S)	94	%	70-130		1	06/22/09 07:47	06/22/09 14:51	2037-26-5	
4-Bromofluorobenzene (S)	91	%	70-130		1	06/22/09 07:47	06/22/09 14:51	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**13.8**	%	0.10	0.10	1		06/25/09 07:42		

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ANALYTICAL RESULTS

Project: 71238.40 TASK 1 PLANT SITE
Pace Project No.: 4018864

Sample: CP-D-03 11.5'-12.0' **Lab ID: 4018864002** Collected: 06/18/09 12:50 Received: 06/19/09 10:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035 Low Level	Analytical Method: EPA 8260 Preparation Method: EPA 5035A								
Acetone	**<7.3**	ug/kg	21.8	7.3	1	06/22/09 07:47	06/22/09 15:14	67-64-1	
Benzene	**<0.67**	ug/kg	5.5	0.67	1	06/22/09 07:47	06/22/09 15:14	71-43-2	
Bromodichloromethane	**<0.38**	ug/kg	5.5	0.38	1	06/22/09 07:47	06/22/09 15:14	75-27-4	
Bromoform	**<1.1**	ug/kg	5.5	1.1	1	06/22/09 07:47	06/22/09 15:14	75-25-2	
Bromomethane	**<1.2**	ug/kg	5.5	1.2	1	06/22/09 07:47	06/22/09 15:14	74-83-9	
2-Butanone (MEK)	**<2.0**	ug/kg	5.5	2.0	1	06/22/09 07:47	06/22/09 15:14	78-93-3	
Carbon disulfide	**<1.2**	ug/kg	5.5	1.2	1	06/22/09 07:47	06/22/09 15:14	75-15-0	
Carbon tetrachloride	**<0.87**	ug/kg	5.5	0.87	1	06/22/09 07:47	06/22/09 15:14	56-23-5	
Chlorobenzene	**<0.22**	ug/kg	5.5	0.22	1	06/22/09 07:47	06/22/09 15:14	108-90-7	
Chloroethane	**<1.6**	ug/kg	5.5	1.6	1	06/22/09 07:47	06/22/09 15:14	75-00-3	
Chloroform	**<0.59**	ug/kg	5.5	0.59	1	06/22/09 07:47	06/22/09 15:14	67-66-3	
Chloromethane	**<0.93**	ug/kg	5.5	0.93	1	06/22/09 07:47	06/22/09 15:14	74-87-3	
Dibromochloromethane	**<0.77**	ug/kg	5.5	0.77	1	06/22/09 07:47	06/22/09 15:14	124-48-1	
1,1-Dichloroethane	**<0.75**	ug/kg	5.5	0.75	1	06/22/09 07:47	06/22/09 15:14	75-34-3	
1,2-Dichloroethane	**<0.62**	ug/kg	5.5	0.62	1	06/22/09 07:47	06/22/09 15:14	107-06-2	
1,1-Dichloroethene	**<0.57**	ug/kg	5.5	0.57	1	06/22/09 07:47	06/22/09 15:14	75-35-4	
cis-1,2-Dichloroethene	**<1.1**	ug/kg	5.5	1.1	1	06/22/09 07:47	06/22/09 15:14	156-59-2	
trans-1,2-Dichloroethene	**<0.82**	ug/kg	5.5	0.82	1	06/22/09 07:47	06/22/09 15:14	156-60-5	
1,2-Dichloropropane	**<0.69**	ug/kg	5.5	0.69	1	06/22/09 07:47	06/22/09 15:14	78-87-5	
cis-1,3-Dichloropropene	**<0.59**	ug/kg	5.5	0.59	1	06/22/09 07:47	06/22/09 15:14	10061-01-5	
trans-1,3-Dichloropropene	**<0.57**	ug/kg	5.5	0.57	1	06/22/09 07:47	06/22/09 15:14	10061-02-6	
Ethylbenzene	**<0.29**	ug/kg	5.5	0.29	1	06/22/09 07:47	06/22/09 15:14	100-41-4	
2-Hexanone	**<1.4**	ug/kg	5.5	1.4	1	06/22/09 07:47	06/22/09 15:14	591-78-6	
Methylene Chloride	**<0.44**	ug/kg	5.5	0.44	1	06/22/09 07:47	06/22/09 15:14	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<0.92**	ug/kg	5.5	0.92	1	06/22/09 07:47	06/22/09 15:14	108-10-1	
Styrene	**<0.13**	ug/kg	5.5	0.13	1	06/22/09 07:47	06/22/09 15:14	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.81**	ug/kg	5.5	0.81	1	06/22/09 07:47	06/22/09 15:14	79-34-5	L2
Tetrachloroethene	**189**	ug/kg	5.5	1.0	1	06/22/09 07:47	06/22/09 15:14	127-18-4	
Toluene	**2.0J**	ug/kg	5.5	0.92	1	06/22/09 07:47	06/22/09 15:14	108-88-3	
1,1,1-Trichloroethane	**<0.84**	ug/kg	5.5	0.84	1	06/22/09 07:47	06/22/09 15:14	71-55-6	
1,1,2-Trichloroethane	**<0.78**	ug/kg	5.5	0.78	1	06/22/09 07:47	06/22/09 15:14	79-00-5	
Trichloroethene	**73.7**	ug/kg	5.5	0.63	1	06/22/09 07:47	06/22/09 15:14	79-01-6	
Vinyl chloride	**<0.95**	ug/kg	5.5	0.95	1	06/22/09 07:47	06/22/09 15:14	75-01-4	
Xylene (Total)	**<1.8**	ug/kg	16.4	1.8	1	06/22/09 07:47	06/22/09 15:14	1330-20-7	
Dibromofluoromethane (S)	91	%	63-130		1	06/22/09 07:47	06/22/09 15:14	1868-53-7	
Toluene-d8 (S)	101	%	70-130		1	06/22/09 07:47	06/22/09 15:14	2037-26-5	
4-Bromofluorobenzene (S)	80	%	70-130		1	06/22/09 07:47	06/22/09 15:14	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**19.7**	%	0.10	0.10	1		06/25/09 07:43		

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ANALYTICAL RESULTS

Project: 71238.40 TASK 1 PLANT SITE
Pace Project No.: 4018864

Sample: CP-D-03 21.3'-21.8' **Lab ID: 4018864003** Collected: 06/18/09 13:30 Received: 06/19/09 10:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035 Med Level	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
Acetone	**<170**	ug/kg	337	170	1	06/23/09 13:17	06/24/09 11:48	67-64-1	
Benzene	**<15.1**	ug/kg	33.7	15.1	1	06/23/09 13:17	06/24/09 11:48	71-43-2	
Bromodichloromethane	**<12.6**	ug/kg	67.4	12.6	1	06/23/09 13:17	06/24/09 11:48	75-27-4	
Bromoform	**<34.9**	ug/kg	67.4	34.9	1	06/23/09 13:17	06/24/09 11:48	75-25-2	
Bromomethane	**<30.3**	ug/kg	67.4	30.3	1	06/23/09 13:17	06/24/09 11:48	74-83-9	
2-Butanone (MEK)	**<112**	ug/kg	337	112	1	06/23/09 13:17	06/24/09 11:48	78-93-3	
Carbon disulfide	**<9.8**	ug/kg	67.4	9.8	1	06/23/09 13:17	06/24/09 11:48	75-15-0	
Carbon tetrachloride	**<13.7**	ug/kg	67.4	13.7	1	06/23/09 13:17	06/24/09 11:48	56-23-5	
Chlorobenzene	**<11.0**	ug/kg	67.4	11.0	1	06/23/09 13:17	06/24/09 11:48	108-90-7	
Chloroethane	**<30.1**	ug/kg	67.4	30.1	1	06/23/09 13:17	06/24/09 11:48	75-00-3	
Chloroform	**<9.8**	ug/kg	337	9.8	1	06/23/09 13:17	06/24/09 11:48	67-66-3	
Chloromethane	**<13.6**	ug/kg	67.4	13.6	1	06/23/09 13:17	06/24/09 11:48	74-87-3	
Dibromochloromethane	**<14.0**	ug/kg	67.4	14.0	1	06/23/09 13:17	06/24/09 11:48	124-48-1	
1,1-Dichloroethane	**<8.9**	ug/kg	67.4	8.9	1	06/23/09 13:17	06/24/09 11:48	75-34-3	
1,2-Dichloroethane	**<17.8**	ug/kg	33.7	17.8	1	06/23/09 13:17	06/24/09 11:48	107-06-2	
1,1-Dichloroethene	**<20.7**	ug/kg	67.4	20.7	1	06/23/09 13:17	06/24/09 11:48	75-35-4	
cis-1,2-Dichloroethene	**<11.2**	ug/kg	67.4	11.2	1	06/23/09 13:17	06/24/09 11:48	156-59-2	
trans-1,2-Dichloroethene	**<25.2**	ug/kg	67.4	25.2	1	06/23/09 13:17	06/24/09 11:48	156-60-5	
1,2-Dichloropropane	**<11.5**	ug/kg	67.4	11.5	1	06/23/09 13:17	06/24/09 11:48	78-87-5	
cis-1,3-Dichloropropene	**<12.9**	ug/kg	67.4	12.9	1	06/23/09 13:17	06/24/09 11:48	10061-01-5	
trans-1,3-Dichloropropene	**<14.2**	ug/kg	67.4	14.2	1	06/23/09 13:17	06/24/09 11:48	10061-02-6	
Ethylbenzene	**<13.8**	ug/kg	33.7	13.8	1	06/23/09 13:17	06/24/09 11:48	100-41-4	
2-Hexanone	**<66.8**	ug/kg	337	66.8	1	06/23/09 13:17	06/24/09 11:48	591-78-6	
Methylene Chloride	**<11.0**	ug/kg	67.4	11.0	1	06/23/09 13:17	06/24/09 11:48	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<21.3**	ug/kg	67.4	21.3	1	06/23/09 13:17	06/24/09 11:48	108-10-1	
Styrene	**<16.2**	ug/kg	67.4	16.2	1	06/23/09 13:17	06/24/09 11:48	100-42-5	
1,1,2,2-Tetrachloroethane	**<16.9**	ug/kg	67.4	16.9	1	06/23/09 13:17	06/24/09 11:48	79-34-5	
Tetrachloroethene	**1660**	ug/kg	67.4	14.6	1	06/23/09 13:17	06/24/09 11:48	127-18-4	
Toluene	**<10.4**	ug/kg	67.4	10.4	1	06/23/09 13:17	06/24/09 11:48	108-88-3	
1,1,1-Trichloroethane	**<12.6**	ug/kg	67.4	12.6	1	06/23/09 13:17	06/24/09 11:48	71-55-6	
1,1,2-Trichloroethane	**<27.1**	ug/kg	67.4	27.1	1	06/23/09 13:17	06/24/09 11:48	79-00-5	
Trichloroethene	**628**	ug/kg	67.4	13.1	1	06/23/09 13:17	06/24/09 11:48	79-01-6	
Vinyl chloride	**<13.5**	ug/kg	67.4	13.5	1	06/23/09 13:17	06/24/09 11:48	75-01-4	
Xylene (Total)	**227**	ug/kg	101	29.3	1	06/23/09 13:17	06/24/09 11:48	1330-20-7	
Dibromofluoromethane (S)	149	%	63-130		1	06/23/09 13:17	06/24/09 11:48	1868-53-7	1j
Toluene-d8 (S)	152	%	70-130		1	06/23/09 13:17	06/24/09 11:48	2037-26-5	1j
4-Bromofluorobenzene (S)	148	%	70-130		1	06/23/09 13:17	06/24/09 11:48	460-00-4	1j
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**22.8**	%	0.10	0.10	1		06/25/09 07:43		

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ANALYTICAL RESULTS

Project: 71238.40 TASK 1 PLANT SITE
Pace Project No.: 4018864

Sample: TBLK-09203 **Lab ID: 4018864004** Collected: 06/18/09 00:00 Received: 06/19/09 10:00 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Acetone	**<5.0**	ug/L	20.0	5.0	1		06/24/09 12:34	67-64-1	
Benzene	**<0.41**	ug/L	1.0	0.41	1		06/24/09 12:34	71-43-2	
Bromodichloromethane	**<0.56**	ug/L	1.0	0.56	1		06/24/09 12:34	75-27-4	
Bromoform	**<0.94**	ug/L	1.0	0.94	1		06/24/09 12:34	75-25-2	
Bromomethane	**<0.91**	ug/L	1.0	0.91	1		06/24/09 12:34	74-83-9	
2-Butanone (MEK)	**<4.3**	ug/L	20.0	4.3	1		06/24/09 12:34	78-93-3	
Carbon disulfide	**<0.66**	ug/L	1.0	0.66	1		06/24/09 12:34	75-15-0	
Carbon tetrachloride	**<0.49**	ug/L	1.0	0.49	1		06/24/09 12:34	56-23-5	
Chlorobenzene	**<0.41**	ug/L	1.0	0.41	1		06/24/09 12:34	108-90-7	
Chloroethane	**<0.97**	ug/L	1.0	0.97	1		06/24/09 12:34	75-00-3	
Chloroform	**<1.3**	ug/L	5.0	1.3	1		06/24/09 12:34	67-66-3	
Chloromethane	**<0.24**	ug/L	1.0	0.24	1		06/24/09 12:34	74-87-3	
Dibromochloromethane	**<0.81**	ug/L	1.0	0.81	1		06/24/09 12:34	124-48-1	
1,1-Dichloroethane	**<0.75**	ug/L	1.0	0.75	1		06/24/09 12:34	75-34-3	
1,2-Dichloroethane	**<0.36**	ug/L	1.0	0.36	1		06/24/09 12:34	107-06-2	
1,1-Dichloroethene	**<0.57**	ug/L	1.0	0.57	1		06/24/09 12:34	75-35-4	
cis-1,2-Dichloroethene	**<0.83**	ug/L	1.0	0.83	1		06/24/09 12:34	156-59-2	
trans-1,2-Dichloroethene	**<0.89**	ug/L	1.0	0.89	1		06/24/09 12:34	156-60-5	
1,2-Dichloropropane	**<0.49**	ug/L	1.0	0.49	1		06/24/09 12:34	78-87-5	
cis-1,3-Dichloropropene	**<0.20**	ug/L	1.0	0.20	1		06/24/09 12:34	10061-01-5	
trans-1,3-Dichloropropene	**<0.19**	ug/L	1.0	0.19	1		06/24/09 12:34	10061-02-6	
Ethylbenzene	**<0.54**	ug/L	1.0	0.54	1		06/24/09 12:34	100-41-4	
2-Hexanone	**<2.0**	ug/L	5.0	2.0	1		06/24/09 12:34	591-78-6	
Methylene Chloride	**<0.43**	ug/L	1.0	0.43	1		06/24/09 12:34	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<1.2**	ug/L	5.0	1.2	1		06/24/09 12:34	108-10-1	
Styrene	**<0.86**	ug/L	1.0	0.86	1		06/24/09 12:34	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.20**	ug/L	1.0	0.20	1		06/24/09 12:34	79-34-5	
Tetrachloroethene	**<0.45**	ug/L	1.0	0.45	1		06/24/09 12:34	127-18-4	
Toluene	**<0.67**	ug/L	1.0	0.67	1		06/24/09 12:34	108-88-3	
1,1,1-Trichloroethane	**<0.90**	ug/L	1.0	0.90	1		06/24/09 12:34	71-55-6	
1,1,2-Trichloroethane	**<0.42**	ug/L	1.0	0.42	1		06/24/09 12:34	79-00-5	
Trichloroethene	**<0.48**	ug/L	1.0	0.48	1		06/24/09 12:34	79-01-6	
Vinyl chloride	**<0.18**	ug/L	1.0	0.18	1		06/24/09 12:34	75-01-4	
Xylene (Total)	**<2.6**	ug/L	3.0	2.6	1		06/24/09 12:34	1330-20-7	
4-Bromofluorobenzene (S)	98	%	70-130		1		06/24/09 12:34	460-00-4	
Dibromofluoromethane (S)	103	%	70-130		1		06/24/09 12:34	1868-53-7	
Toluene-d8 (S)	100	%	70-130		1		06/24/09 12:34	2037-26-5	

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QUALITY CONTROL DATA

Project: 71238.40 TASK 1 PLANT SITE
Pace Project No.: 4018864

QC Batch: MSV/4791 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 4018864004

METHOD BLANK: 173297 Matrix: Water
Associated Lab Samples: 4018864004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	<0.90	1.0	06/24/09 06:41	
1,1,2,2-Tetrachloroethane	ug/L	<0.20	1.0	06/24/09 06:41	
1,1,2-Trichloroethane	ug/L	<0.42	1.0	06/24/09 06:41	
1,1-Dichloroethane	ug/L	<0.75	1.0	06/24/09 06:41	
1,1-Dichloroethene	ug/L	<0.57	1.0	06/24/09 06:41	
1,2-Dichloroethane	ug/L	<0.36	1.0	06/24/09 06:41	
1,2-Dichloropropane	ug/L	<0.49	1.0	06/24/09 06:41	
2-Butanone (MEK)	ug/L	<4.3	20.0	06/24/09 06:41	
2-Hexanone	ug/L	<2.0	5.0	06/24/09 06:41	
4-Methyl-2-pentanone (MIBK)	ug/L	<1.2	5.0	06/24/09 06:41	
Acetone	ug/L	<5.0	20.0	06/24/09 06:41	
Benzene	ug/L	<0.41	1.0	06/24/09 06:41	
Bromodichloromethane	ug/L	<0.56	1.0	06/24/09 06:41	
Bromoform	ug/L	<0.94	1.0	06/24/09 06:41	
Bromomethane	ug/L	<0.91	1.0	06/24/09 06:41	
Carbon disulfide	ug/L	<0.66	1.0	06/24/09 06:41	
Carbon tetrachloride	ug/L	<0.49	1.0	06/24/09 06:41	
Chlorobenzene	ug/L	<0.41	1.0	06/24/09 06:41	
Chloroethane	ug/L	<0.97	1.0	06/24/09 06:41	
Chloroform	ug/L	<1.3	5.0	06/24/09 06:41	
Chloromethane	ug/L	<0.24	1.0	06/24/09 06:41	
cis-1,2-Dichloroethene	ug/L	<0.83	1.0	06/24/09 06:41	
cis-1,3-Dichloropropene	ug/L	<0.20	1.0	06/24/09 06:41	
Dibromochloromethane	ug/L	<0.81	1.0	06/24/09 06:41	
Ethylbenzene	ug/L	<0.54	1.0	06/24/09 06:41	
Methylene Chloride	ug/L	<0.43	1.0	06/24/09 06:41	
Styrene	ug/L	<0.86	1.0	06/24/09 06:41	
Tetrachloroethene	ug/L	<0.45	1.0	06/24/09 06:41	
Toluene	ug/L	<0.67	1.0	06/24/09 06:41	
trans-1,2-Dichloroethene	ug/L	<0.89	1.0	06/24/09 06:41	
trans-1,3-Dichloropropene	ug/L	<0.19	1.0	06/24/09 06:41	
Trichloroethene	ug/L	<0.48	1.0	06/24/09 06:41	
Vinyl chloride	ug/L	<0.18	1.0	06/24/09 06:41	
Xylene (Total)	ug/L	<2.6	3.0	06/24/09 06:41	
4-Bromofluorobenzene (S)	%	98	70-130	06/24/09 06:41	
Dibromofluoromethane (S)	%	100	70-130	06/24/09 06:41	
Toluene-d8 (S)	%	100	70-130	06/24/09 06:41	

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QUALITY CONTROL DATA

Project: 71238.40 TASK 1 PLANT SITE
Pace Project No.: 4018864

LABORATORY CONTROL SAMPLE & LCSD: 173298 173299

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/L	50	50.6	51.1	101	102	70-132	1	20	
1,1,2,2-Tetrachloroethane	ug/L	50	44.9	46.4	90	93	69-130	3	20	
1,1,2-Trichloroethane	ug/L	50	48.6	50.4	97	101	70-130	4	20	
1,1-Dichloroethane	ug/L	50	49.6	49.7	99	99	70-130	.2	20	
1,1-Dichloroethene	ug/L	50	49.0	49.4	98	99	70-130	.7	20	
1,2-Dichloroethane	ug/L	50	49.3	48.7	99	97	70-134	1	20	
1,2-Dichloropropane	ug/L	50	51.3	53.0	103	106	70-130	3	20	
2-Butanone (MEK)	ug/L	50	47.5	46.6	95	93	36-181	2	35	
2-Hexanone	ug/L	50	46.3	47.8	93	96	46-171	3	27	
4-Methyl-2-pentanone (MIBK)	ug/L	50	47.9	49.6	96	99	50-150	4	20	
Acetone	ug/L	50	47.6	48.7	95	97	10-200	2	36	
Benzene	ug/L	50	50.8	50.7	102	101	70-131	.1	20	
Bromodichloromethane	ug/L	50	49.1	50.9	98	102	70-130	3	20	
Bromoform	ug/L	50	40.0	41.4	80	83	70-130	3	20	
Bromomethane	ug/L	50	36.3	44.1	73	88	23-200	19	20	
Carbon disulfide	ug/L	50	48.9	49.5	98	99	70-138	1	20	
Carbon tetrachloride	ug/L	50	51.4	52.0	103	104	70-144	1	20	
Chlorobenzene	ug/L	50	49.4	50.2	99	100	70-130	2	20	
Chloroethane	ug/L	50	50.4	50.8	101	102	70-136	.8	20	
Chloroform	ug/L	50	48.7	49.1	97	98	70-130	.8	20	
Chloromethane	ug/L	50	38.2	37.8	76	76	54-148	.8	20	
cis-1,2-Dichloroethene	ug/L	50	49.8	49.4	100	99	70-130	.7	20	
cis-1,3-Dichloropropene	ug/L	50	47.5	50.2	95	100	70-130	5	20	
Dibromochloromethane	ug/L	50	43.5	44.4	87	89	70-130	2	20	
Ethylbenzene	ug/L	50	50.4	51.5	101	103	70-130	2	20	
Methylene Chloride	ug/L	50	49.3	49.2	99	98	66-130	.1	20	
Styrene	ug/L	50	46.4	47.3	93	95	70-130	2	20	
Tetrachloroethene	ug/L	50	49.2	49.8	98	100	75-130	1	20	
Toluene	ug/L	50	49.3	50.4	99	101	70-130	2	20	
trans-1,2-Dichloroethene	ug/L	50	50.0	50.9	100	102	70-130	2	20	
trans-1,3-Dichloropropene	ug/L	50	43.5	46.8	87	94	70-130	7	20	
Trichloroethene	ug/L	50	51.4	52.4	103	105	70-130	2	20	
Vinyl chloride	ug/L	50	46.0	45.5	92	91	63-141	1	20	
Xylene (Total)	ug/L	150	149	153	99	102	70-130	3	20	
4-Bromofluorobenzene (S)	%				98	98	70-130			
Dibromofluoromethane (S)	%				101	99	70-130			
Toluene-d8 (S)	%				100	100	70-130			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 173892 173893

Parameter	Units	4018927001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1-Trichloroethane	ug/L	13.0	50	50	65.3	65.8	105	106	70-137	.8	20	
1,1,2,2-Tetrachloroethane	ug/L	ND	50	50	46.4	46.3	93	93	67-130	.2	20	
1,1,2-Trichloroethane	ug/L	ND	50	50	49.8	49.8	100	100	70-130	.2	20	
1,1-Dichloroethane	ug/L	ND	50	50	50.0	49.3	100	99	70-130	1	20	
1,1-Dichloroethene	ug/L	ND	50	50	49.2	49.1	98	98	70-130	.2	20	

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QUALITY CONTROL DATA

Project: 71238.40 TASK 1 PLANT SITE
Pace Project No.: 4018864

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 173892 173893

Parameter	Units	4018927001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dichloroethane	ug/L	ND	50	50	49.5	49.9	99	100	69-134	.9	20	
1,2-Dichloropropane	ug/L	ND	50	50	52.2	51.6	104	103	70-130	1	20	
2-Butanone (MEK)	ug/L	ND	50	50	49.8	46.6	100	93	36-181	7	35	
2-Hexanone	ug/L	ND	50	50	48.7	48.1	97	96	46-171	1	27	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	50	50	49.8	50.2	100	100	50-150	.7	20	
Acetone	ug/L	ND	50	50	48.6	48.7	97	97	10-200	.2	36	
Benzene	ug/L	ND	50	50	51.3	51.1	103	102	69-131	.5	20	
Bromodichloromethane	ug/L	ND	50	50	51.0	50.0	102	100	70-130	2	20	
Bromoform	ug/L	ND	50	50	42.3	42.6	85	85	68-130	.8	20	
Bromomethane	ug/L	ND	50	50	45.4	44.9	91	90	22-200	1	20	
Carbon disulfide	ug/L	ND	50	50	49.9	49.0	100	98	68-138	2	20	
Carbon tetrachloride	ug/L	ND	50	50	52.5	52.4	105	105	70-144	.3	20	
Chlorobenzene	ug/L	ND	50	50	49.7	50.0	99	100	70-130	.6	20	
Chloroethane	ug/L	ND	50	50	50.9	49.9	102	100	66-136	2	20	
Chloroform	ug/L	ND	50	50	49.0	49.0	98	98	70-130	.1	20	
Chloromethane	ug/L	ND	50	50	38.0	37.4	76	75	54-148	1	20	
cis-1,2-Dichloroethene	ug/L	ND	50	50	49.9	49.3	100	99	70-130	1	20	
cis-1,3-Dichloropropene	ug/L	ND	50	50	50.8	50.8	102	102	70-130	.1	20	
Dibromochloromethane	ug/L	ND	50	50	44.3	44.1	89	88	70-130	.4	20	
Ethylbenzene	ug/L	ND	50	50	51.7	51.1	103	102	70-130	1	20	
Methylene Chloride	ug/L	ND	50	50	49.7	49.9	99	100	64-130	.3	20	
Styrene	ug/L	ND	50	50	47.1	46.1	94	92	43-130	2	20	
Tetrachloroethene	ug/L	ND	50	50	49.6	49.5	99	99	70-130	.1	20	
Toluene	ug/L	ND	50	50	50.4	50.2	100	100	70-130	.6	20	
trans-1,2-Dichloroethene	ug/L	ND	50	50	50.7	50.7	101	101	70-130	.08	20	
trans-1,3-Dichloropropene	ug/L	ND	50	50	47.7	48.3	95	97	70-130	1	20	
Trichloroethene	ug/L	ND	50	50	52.9	51.6	106	103	70-130	3	20	
Vinyl chloride	ug/L	ND	50	50	45.1	43.9	90	88	59-141	3	20	
Xylene (Total)	ug/L	ND	150	150	151	151	101	101	70-130	.5	20	
4-Bromofluorobenzene (S)	%						98	99	70-130			
Dibromofluoromethane (S)	%						99	100	70-130			
Toluene-d8 (S)	%						99	101	70-130			

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QUALITY CONTROL DATA

Project: 71238.40 TASK 1 PLANT SITE
Pace Project No.: 4018864

QC Batch: MSV/4795 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV 5035 Low Level
Associated Lab Samples: 4018864001, 4018864002

METHOD BLANK: 173461 Matrix: Solid
Associated Lab Samples: 4018864001, 4018864002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/kg	<0.77	5.0	06/22/09 08:57	
1,1,2,2-Tetrachloroethane	ug/kg	<0.74	5.0	06/22/09 08:57	
1,1,2-Trichloroethane	ug/kg	<0.71	5.0	06/22/09 08:57	
1,1-Dichloroethane	ug/kg	<0.69	5.0	06/22/09 08:57	
1,1-Dichloroethene	ug/kg	<0.52	5.0	06/22/09 08:57	
1,2-Dichloroethane	ug/kg	<0.57	5.0	06/22/09 08:57	
1,2-Dichloropropane	ug/kg	<0.64	5.0	06/22/09 08:57	
2-Butanone (MEK)	ug/kg	<1.8	5.0	06/22/09 08:57	
2-Hexanone	ug/kg	<1.3	5.0	06/22/09 08:57	
4-Methyl-2-pentanone (MIBK)	ug/kg	<0.85	5.0	06/22/09 08:57	
Acetone	ug/kg	<6.7	20.0	06/22/09 08:57	
Benzene	ug/kg	<0.61	5.0	06/22/09 08:57	
Bromodichloromethane	ug/kg	<0.35	5.0	06/22/09 08:57	
Bromoform	ug/kg	<0.99	5.0	06/22/09 08:57	
Bromomethane	ug/kg	<1.1	5.0	06/22/09 08:57	
Carbon disulfide	ug/kg	<1.1	5.0	06/22/09 08:57	
Carbon tetrachloride	ug/kg	<0.80	5.0	06/22/09 08:57	
Chlorobenzene	ug/kg	<0.21	5.0	06/22/09 08:57	
Chloroethane	ug/kg	<1.5	5.0	06/22/09 08:57	
Chloroform	ug/kg	<0.54	5.0	06/22/09 08:57	
Chloromethane	ug/kg	<0.85	5.0	06/22/09 08:57	
cis-1,2-Dichloroethene	ug/kg	<1.0	5.0	06/22/09 08:57	
cis-1,3-Dichloropropene	ug/kg	<0.54	5.0	06/22/09 08:57	
Dibromochloromethane	ug/kg	<0.71	5.0	06/22/09 08:57	
Ethylbenzene	ug/kg	<0.26	5.0	06/22/09 08:57	
Methylene Chloride	ug/kg	<0.40	5.0	06/22/09 08:57	
Styrene	ug/kg	<0.12	5.0	06/22/09 08:57	
Tetrachloroethene	ug/kg	<0.92	5.0	06/22/09 08:57	
Toluene	ug/kg	<0.85	5.0	06/22/09 08:57	
trans-1,2-Dichloroethene	ug/kg	<0.75	5.0	06/22/09 08:57	
trans-1,3-Dichloropropene	ug/kg	<0.53	5.0	06/22/09 08:57	
Trichloroethene	ug/kg	<0.57	5.0	06/22/09 08:57	
Vinyl chloride	ug/kg	<0.87	5.0	06/22/09 08:57	
4-Bromofluorobenzene (S)	%	89	70-130	06/22/09 08:57	
Dibromofluoromethane (S)	%	78	63-130	06/22/09 08:57	
Toluene-d8 (S)	%	95	70-130	06/22/09 08:57	

LABORATORY CONTROL SAMPLE & LCSD: 173462 173463

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/kg	50	49.3	50.2	99	100	70-130	2	20	

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QUALITY CONTROL DATA

Project: 71238.40 TASK 1 PLANT SITE
Pace Project No.: 4018864

LABORATORY CONTROL SAMPLE & LCSD: 173462 173463

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,1,2,2-Tetrachloroethane	ug/kg	50	33.4	33.0	67	66	70-130	1	20	L0
1,1,2-Trichloroethane	ug/kg	50	45.0	46.3	90	93	70-130	3	20	
1,1-Dichloroethane	ug/kg	50	41.3	42.5	83	85	67-137	3	20	
1,1-Dichloroethene	ug/kg	50	56.8	55.9	114	112	70-130	2	20	
1,2-Dichloroethane	ug/kg	50	42.7	42.0	85	84	63-134	2	20	
1,2-Dichloropropane	ug/kg	50	43.8	43.9	88	88	70-130	.04	20	
2-Butanone (MEK)	ug/kg	50	27.0	30.5	54	61	35-150	12	42	
2-Hexanone	ug/kg	50	35.9	36.7	72	73	42-157	2	20	
4-Methyl-2-pentanone (MIBK)	ug/kg	50	38.3	38.3	77	77	50-150	.2	20	
Acetone	ug/kg	50	21.5	23.4	43	47	10-197	9	85	
Benzene	ug/kg	50	45.5	45.7	91	91	70-130	.4	20	
Bromodichloromethane	ug/kg	50	48.6	48.3	97	97	70-130	.7	20	
Bromoform	ug/kg	50	54.0	53.7	108	107	64-137	.5	20	
Bromomethane	ug/kg	50	62.1	61.0	124	122	66-136	2	20	
Carbon disulfide	ug/kg	50	53.0	52.4	106	105	54-154	1	20	
Carbon tetrachloride	ug/kg	50	52.4	52.5	105	105	70-130	.1	20	
Chlorobenzene	ug/kg	50	53.1	53.3	106	107	70-130	.3	20	
Chloroethane	ug/kg	50	52.5	53.8	105	108	59-140	2	20	
Chloroform	ug/kg	50	44.6	44.3	89	89	69-130	.6	20	
Chloromethane	ug/kg	50	51.3	50.8	103	102	27-141	.9	20	
cis-1,2-Dichloroethene	ug/kg	50	46.8	46.1	94	92	70-130	2	20	
cis-1,3-Dichloropropene	ug/kg	50	47.1	46.7	94	93	70-130	.9	20	
Dibromochloromethane	ug/kg	50	49.6	49.2	99	98	70-130	.8	20	
Ethylbenzene	ug/kg	50	51.3	51.7	103	103	70-130	.9	20	
Methylene Chloride	ug/kg	50	43.1	43.8	86	88	70-130	2	20	
Styrene	ug/kg	50	48.9	50.6	98	101	70-130	3	20	
Tetrachloroethene	ug/kg	50	62.5	63.9	125	128	67-139	2	20	
Toluene	ug/kg	50	52.3	52.0	105	104	70-130	.5	20	
trans-1,2-Dichloroethene	ug/kg	50	48.0	48.3	96	97	70-130	.6	20	
trans-1,3-Dichloropropene	ug/kg	50	45.3	44.6	91	89	70-130	2	20	
Trichloroethene	ug/kg	50	55.7	56.4	111	113	70-130	1	20	
Vinyl chloride	ug/kg	50	55.4	54.6	111	109	65-142	1	20	
4-Bromofluorobenzene (S)	%				91	88	70-130			
Dibromofluoromethane (S)	%				81	80	63-130			
Toluene-d8 (S)	%				97	96	70-130			

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QUALITY CONTROL DATA

Project: 71238.40 TASK 1 PLANT SITE
Pace Project No.: 4018864

QC Batch: MSV/4806
QC Batch Method: EPA 5035/5030B
Analysis Method: EPA 8260
Analysis Description: 8260 MSV 5035 Med Prep
Associated Lab Samples: 4018864003

METHOD BLANK: 173654
Matrix: Solid
Associated Lab Samples: 4018864003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/kg	<9.4	50.0	06/23/09 12:35	
1,1,2,2-Tetrachloroethane	ug/kg	<12.5	50.0	06/23/09 12:35	
1,1,2-Trichloroethane	ug/kg	<20.1	50.0	06/23/09 12:35	
1,1-Dichloroethane	ug/kg	<6.6	50.0	06/23/09 12:35	
1,1-Dichloroethene	ug/kg	<15.4	50.0	06/23/09 12:35	
1,2-Dichloroethane	ug/kg	<13.2	25.0	06/23/09 12:35	
1,2-Dichloropropane	ug/kg	<8.5	50.0	06/23/09 12:35	
2-Butanone (MEK)	ug/kg	<82.9	250	06/23/09 12:35	
2-Hexanone	ug/kg	<49.5	250	06/23/09 12:35	
4-Methyl-2-pentanone (MIBK)	ug/kg	<15.8	50.0	06/23/09 12:35	
Acetone	ug/kg	<126	250	06/23/09 12:35	
Benzene	ug/kg	<11.2	25.0	06/23/09 12:35	
Bromodichloromethane	ug/kg	<9.3	50.0	06/23/09 12:35	
Bromoform	ug/kg	<25.9	50.0	06/23/09 12:35	
Bromomethane	ug/kg	<22.5	50.0	06/23/09 12:35	
Carbon disulfide	ug/kg	<7.2	50.0	06/23/09 12:35	
Carbon tetrachloride	ug/kg	<10.1	50.0	06/23/09 12:35	
Chlorobenzene	ug/kg	<8.2	50.0	06/23/09 12:35	
Chloroethane	ug/kg	<22.3	50.0	06/23/09 12:35	
Chloroform	ug/kg	<7.2	250	06/23/09 12:35	
Chloromethane	ug/kg	<10.1	50.0	06/23/09 12:35	
cis-1,2-Dichloroethene	ug/kg	<8.3	50.0	06/23/09 12:35	
cis-1,3-Dichloropropene	ug/kg	<9.6	50.0	06/23/09 12:35	
Dibromochloromethane	ug/kg	<10.4	50.0	06/23/09 12:35	
Ethylbenzene	ug/kg	<10.2	25.0	06/23/09 12:35	
Methylene Chloride	ug/kg	<8.2	50.0	06/23/09 12:35	
Styrene	ug/kg	<12.0	50.0	06/23/09 12:35	
Tetrachloroethene	ug/kg	<10.8	50.0	06/23/09 12:35	
Toluene	ug/kg	<7.7	50.0	06/23/09 12:35	
trans-1,2-Dichloroethene	ug/kg	<18.7	50.0	06/23/09 12:35	
trans-1,3-Dichloropropene	ug/kg	<10.5	50.0	06/23/09 12:35	
Trichloroethene	ug/kg	<9.7	50.0	06/23/09 12:35	
Vinyl chloride	ug/kg	<10.0	50.0	06/23/09 12:35	
Xylene (Total)	ug/kg	<21.7	75.0	06/23/09 12:35	
4-Bromofluorobenzene (S)	%	107	70-130	06/23/09 12:35	
Dibromofluoromethane (S)	%	117	63-130	06/23/09 12:35	
Toluene-d8 (S)	%	119	70-130	06/23/09 12:35	

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QUALITY CONTROL DATA

Project: 71238.40 TASK 1 PLANT SITE
Pace Project No.: 4018864

LABORATORY CONTROL SAMPLE & LCSD: 173655 173656

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/kg	2500	2960	3060	118	122	70-130	3	20	
1,1,2,2-Tetrachloroethane	ug/kg	2500	2710	2910	108	117	70-130	7	20	
1,1,2-Trichloroethane	ug/kg	2500	2660	2780	106	111	70-130	4	20	
1,1-Dichloroethane	ug/kg	2500	2290	2400	92	96	67-137	5	20	
1,1-Dichloroethene	ug/kg	2500	2440	2520	97	101	70-130	4	20	
1,2-Dichloroethane	ug/kg	2500	2610	2640	104	105	63-134	1	20	
1,2-Dichloropropane	ug/kg	2500	2540	2700	102	108	70-130	6	20	
2-Butanone (MEK)	ug/kg	2500	3230	3420	129	137	35-150	6	42	
2-Hexanone	ug/kg	2500	2560	2630	102	105	42-157	3	20	
4-Methyl-2-pentanone (MIBK)	ug/kg	2500	2890	2710	116	109	50-150	6	20	
Acetone	ug/kg	2500	2240	2440	90	98	10-197	9	85	
Benzene	ug/kg	2500	2710	2770	108	111	70-130	2	20	
Bromodichloromethane	ug/kg	2500	2370	2460	95	99	70-130	4	20	
Bromoform	ug/kg	2500	2270	2390	91	96	64-137	5	20	
Bromomethane	ug/kg	2500	2090	2190	84	88	66-136	5	20	
Carbon disulfide	ug/kg	2500	2240	2330	90	93	54-154	4	20	
Carbon tetrachloride	ug/kg	2500	2810	2880	112	115	70-130	2	20	
Chlorobenzene	ug/kg	2500	2550	2670	102	107	70-130	5	20	
Chloroethane	ug/kg	2500	2180	2270	87	91	59-140	4	20	
Chloroform	ug/kg	2500	2610	2700	105	108	69-130	3	20	
Chloromethane	ug/kg	2500	2010	2130	80	85	27-141	6	20	
cis-1,2-Dichloroethene	ug/kg	2500	2690	2740	108	110	70-130	2	20	
cis-1,3-Dichloropropene	ug/kg	2500	2420	2530	97	101	70-130	4	20	
Dibromochloromethane	ug/kg	2500	2370	2510	95	101	70-130	6	20	
Ethylbenzene	ug/kg	2500	2770	2860	111	115	70-130	3	20	
Methylene Chloride	ug/kg	2500	2320	2420	93	97	70-130	4	20	
Styrene	ug/kg	2500	2100	2200	84	88	70-130	5	20	
Tetrachloroethene	ug/kg	2500	2870	2990	115	119	67-139	4	20	
Toluene	ug/kg	2500	2860	2970	114	119	70-130	4	20	
trans-1,2-Dichloroethene	ug/kg	2500	2380	2460	95	98	70-130	3	20	
trans-1,3-Dichloropropene	ug/kg	2500	2510	2630	100	105	70-130	5	20	
Trichloroethene	ug/kg	2500	2730	2870	109	115	70-130	5	20	
Vinyl chloride	ug/kg	2500	2280	2360	91	94	65-142	4	20	
Xylene (Total)	ug/kg	7500	7670	7950	102	106	70-130	4	20	
4-Bromofluorobenzene (S)	%				112	113	70-130			
Dibromofluoromethane (S)	%				115	117	63-130			
Toluene-d8 (S)	%				115	119	70-130			

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QUALITY CONTROL DATA

Project: 71238.40 TASK 1 PLANT SITE
Pace Project No.: 4018864

QC Batch: PMST/2623 Analysis Method: ASTM D2974-87
QC Batch Method: ASTM D2974-87 Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 4018864001, 4018864002, 4018864003

SAMPLE DUPLICATE: 174413

Parameter	Units	4018985002 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	12.2	11.6	5	10	

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QUALIFIERS

Project: 71238.40 TASK 1 PLANT SITE
Pace Project No.: 4018864

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

Pace Analytical is NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

U - Indicates the compound was analyzed for, but not detected.

LABORATORIES

PASI-G Pace Analytical Services - Green Bay

BATCH QUALIFIERS

Batch: MSV/4795

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

ANALYTE QUALIFIERS

1j Surrogate recovery outside laboratory control limits due to methanol leakage.

L0 Analyte recovery in the laboratory control sample (LCS) was outside QC limits.

L2 Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results may be biased low.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 71238.40 TASK 1 PLANT SITE
Pace Project No.: 4018864

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
4018864001	**CP-D-02 25.0'**	EPA 5035A	MSV/4767	EPA 8260	MSV/4795
4018864002	**CP-D-03 11.5'-12.0'**	EPA 5035A	MSV/4767	EPA 8260	MSV/4795
4018864004	**TBLK-09203**	EPA 8260	MSV/4791		
4018864003	**CP-D-03 21.3'-21.8'**	EPA 5035/5030B	MSV/4806	EPA 8260	MSV/4807
4018864001	**CP-D-02 25.0'**	ASTM D2974-87	PMST/2623		
4018864002	**CP-D-03 11.5'-12.0'**	ASTM D2974-87	PMST/2623		
4018864003	**CP-D-03 21.3'-21.8'**	ASTM D2974-87	PMST/2623		

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UPPER MIDWEST REGION
MN: 612-607-1700 WI: 920-469-2436

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CHAIN OF CUSTODY

*Preservation Codes
A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH
H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

(Please Print Clearly)	
Company Name:	RMT
Branch/Location:	Greenville SC
Project Contact:	Terry Hertz
Phone:	(864) 281-0030
Project Number:	71238.40 T-1
Project Name:	Plant Site
Project State:	SC
Sampled By (Print):	WCM
Sampled By (Sign):	Bill Medlin
PO #:	Regulatory Program:

Quote #:	
Mail To Contact:	
Mail To Company:	
Mail To Address:	
Invoice To Contact:	
Invoice To Company:	
Invoice To Address:	
Invoice To Phone:	

Data Package Options (billable)
☐ EPA Level III
☐ EPA Level IV

MS/MSD
☐ On your sample (billable)
☐ NOT needed on your sample

Matrix Codes
A = Air, B = Biota, C = Charcoal, O = Oil, S = Soil, SI = Sludge, W = Water, DW = Drinking Water, GW = Ground Water, SW = Surface Water, WW = Waste Water, WP = Wipe

PACE LAB #	CLIENT FIELD ID	COLLECTION DATE	COLLECTION TIME	MATRIX	Analyses Requested: VOC's	MOISTURE	VOC's	CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
	FILTERED? (YES/NO)				N	N	N			
	PRESERVATION (CODE)*				F/E	A	B			
001	CP-D-02 25.0'	6-18-09	0800	SOIL	1/2	1			2oz ag A, 3-40ml EEF	
002	CP-D-03 11.5'-12.0'	6-18-09	1250	SOIL	1/2	1			↓	
003	CP-D-03 21.3'-21.8'	6-18-09	1330	SOIL	1/2	1			↓	
004	TRIP BLK-092073			DI			2		2-40ml B	

Rush Turnaround Time Requested - Prelims
(Rush TAT subject to approval/surcharge)
Date Needed:

Transmit Prelim Rush Results by (complete what you want):
Email #1:
Email #2:
Telephone:
Fax:

Samples on HOLD are subject to special pricing and release of liability

Relinquished By:	Date/Time:	Received By:	Date/Time:
Bill Medlin	6/18/09 1625		6/18/09 1625
	6/18/09 1730	Fedex 8682 8754 1173	6/19/09 1730
FedEx	6/19/09 1000		6/19/09 1000

PACE Project No.: 40188864
Receipt Temp = 3.5 °C
Sample Receipt pH OK / Adjusted
Cooler Custody Seal: Present / Not Present
Intact / Not Intact

Version 6.0 08/14/08

C019a(27Jun2006)

ORIGINAL

Sample Condition Upon Receipt

Pace Analytical

Client Name: RMT Project # 4018864

Courier: ☒ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace Other _____

Tracking #: _____

Optional
Proj. Due Date:
Proj. Name:

Custody Seal on Cooler/Box Present: ☐ yes ☒ no Seals intact: ☐ yes ☐ no

Packing Material: ☒ Bubble Wrap ☒ Bubble Bags ☐ None ☒ Other foam inserts

Thermometer Used JB Type of Ice: (Wet) Blue None ☐ Samples on ice, cooling process has begun

Cooler Temperature 3.5° Biological Tissue is Frozen: Yes No

Date and Initials of person examining contents: 6/19/09 MRW

Temp should be above freezing to 6°C

Comments:

Chain of Custody Present:	☒Yes	☐No	☐N/A
Chain of Custody Filled Out:	☒Yes	☐No	☐N/A
Chain of Custody Relinquished:	☒Yes	☐No	☐N/A
Sampler Name & Signature on COC:	☒Yes	☐No	☐N/A
Samples Arrived within Hold Time:	☒Yes	☐No	☐N/A
Short Hold Time Analysis (<72hr):	☐Yes	☒No	☐N/A
Rush Turn Around Time Requested:	☐Yes	☒No	☐N/A
Sufficient Volume:	☒Yes	☐No	☐N/A
Correct Containers Used:	☒Yes	☐No	☐N/A
-Pace Containers Used:	☒Yes	☐No	☐N/A
Containers Intact:	☒Yes	☐No	☐N/A
Filtered volume received for Dissolved tests	☐Yes	☐No	☒N/A
Sample Labels match COC:	☒Yes	☐No	☐N/A
-Includes date/time/ID/Analysis Matrix: S+W			
All containers needing preservation have been checked.	☐Yes	☐No	☒N/A
All containers needing preservation are found to be in compliance with EPA recommendation.	☐Yes	☐No	☒N/A
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☐Yes	☐No	
Samples checked for dechlorination:	☐Yes	☐No	☒N/A
Headspace in VOA Vials (>6mm):	☐Yes	☐No	☒N/A
Trip Blank Present:	☒Yes	☐No	☐N/A
Trip Blank Custody Seals Present	☐Yes	☒No	☐N/A
Pace Trip Blank Lot # (if purchased):			

1.
2.
3.
4.
5.
6.
7.
8.
9.
10.
11.
12. T.B. is H2O, rest soils
13.

Initial when completed	Lot # of added preservative

14.
15.
16.

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____ **Date:** 6/19/09

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

Samples Collected 06/18/09

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July 02, 2009

Mark Bailey
RMT Greenville
30 Patewood Drive
Suite100, Patewood Plaza One
Greenville, SC 296153535

RE: Project: 71238.40 TASK 1 PLANT SITE
Pace Project No.: 4018864

Dear Mark Bailey:
Enclosed are the analytical results for sample(s) received by the laboratory on June 19, 2009. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Kang Khang

kang.khang@pacelabs.com
Project Manager

Enclosures

cc: Lisa Clark, RMT - GREENVILLE
Terry Hertz, RMT GREENVILLE

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COCs - SIGNED; TEMP-OK; HT-OK; NARR-OK

SURRS - RECS OK EXCEPT FOR HIGH REC OF ALL THREE SURROGATES IN CP-D-03 21.3-21.8.

- TCE, PCE AND XYLENE (TOTAL) ARE ASSIGNED A "j" FLAG IN CP-D-03/21.3-21.8.

June 25, 2009

TBLK-09203 — CLEAN
MBLKS — CLEAN
LCS/LCSD - RECS & RPDS OK EXCEPT FOR RECS OF 1,1,2,2-TETRACHLOROETHANE IN LCS 173462 AND LCSD 173463. THIS LCS/LCSD IS ASSOCIATED WITH SAMPLES CP-D-02/25.0 AND CP-D-03/11.5-12.0. LCS/LREC FOR 1,1,2,2-TCA WERE 3-4% BELOW THE LCL — SINCE THE RECOVERY WAS NOT FAR BELOW THE LCL, AN "r" FLAG (SUGGESTED BY VALIDATION GUIDANCE) WAS NOT ASSIGNED.

Mark Bailey
RMT Greenville
30 Patewood Drive
Suite100, Patewood Plaza One
Greenville, SC 296153535

RE: Project: 71238.40 TASK 1 PLANT SITE
Pace Project No.: 4018864

- 1,1,2,2-TETRACHLOROETHANE IN CP-D-02/25.0 AND CP-D-03/11.5-12.0 IS ASSIGNED A "mj" FLAG.

Dear Mark Bailey:

LAB DUP - RPD OK (FOR % MOISTURE)

Enclosed are the analytical results for sample(s) received by the laboratory on June 19, 2009. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

MS/MSD - ANALYZED FOR AQUEOUS FRACTION ONLY, BATCH QC, RPDS & RECS OK.

Sincerely,

Kang Khang

kang.khang@pacelabs.com
Project Manager

GLH 6/26/09

Enclosures

cc: Lisa Clark, RMT - GREENVILLE
Terry Hertz, RMT GREENVILLE

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CERTIFICATIONS

Project: 71238.40 TASK 1 PLANT SITE
Pace Project No.: 4018864

Green Bay Certification IDs

Wisconsin DATCP Certification #: 105-444
Wisconsin DATCP Certification #: 105-444
Wisconsin Certification #: 405132750
Wisconsin Certification #: 405132750
South Carolina Certification #: 83006001
South Carolina Certification #: 83006001
North Dakota Certification #: R-200
North Dakota Certification #: R-150
North Carolina Certification #: 503
North Carolina Certification #: 503
New York Certification #: 11887
New York Certification #: 11888
Minnesota Certification #: 055-999-334
Minnesota Certification #: 055-999-334
Louisiana Certification #: 04169
Louisiana Certification #: 04168
Kentucky Certification #: 83
Kentucky Certification #: 82
Illinois Certification #: 200051
Illinois Certification #: 200050
Florida/NELAP Certification #: E87951
Florida/NELAP Certification #: E87948

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SAMPLE SUMMARY

Project: 71238.40 TASK 1 PLANT SITE
Pace Project No.: 4018864

Lab ID	Sample ID	Matrix	Date Collected	Date Received
4018864001	**CP-D-02 25.0'**	Solid	06/18/09 08:00	06/19/09 10:00
4018864002	**CP-D-03 11.5'-12.0'**	Solid	06/18/09 12:50	06/19/09 10:00
4018864003	**CP-D-03 21.3'-21.8'**	Solid	06/18/09 13:30	06/19/09 10:00
4018864004	**TBLK-09203**	Water	06/18/09 00:00	06/19/09 10:00

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SAMPLE ANALYTE COUNT

Project: 71238.40 TASK 1 PLANT SITE
Pace Project No.: 4018864

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
4018864001	CP-D-02 25.0'	ASTM D2974-87	AME	1	PASI-G
		EPA 8260	JJB	37	PASI-G
4018864002	CP-D-03 11.5'-12.0'	ASTM D2974-87	AME	1	PASI-G
		EPA 8260	JJB	37	PASI-G
4018864003	CP-D-03 21.3'-21.8'	ASTM D2974-87	AME	1	PASI-G
		EPA 8260	JJB	37	PASI-G
4018864004	TBLK-09203	EPA 8260	HNW	37	PASI-G

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PROJECT NARRATIVE

Project: 71238.40 TASK 1 PLANT SITE
Pace Project No.: 4018864

Method: EPA 8260
Description: 8260 MSV
Client: RMT - GREENVILLE
Date: July 02, 2009

General Information:
1 sample was analyzed for EPA 8260. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: 71238.40 TASK 1 PLANT SITE
Pace Project No.: 4018864

Method: EPA 8260
Description: 8260 MSV 5035 Low Level
Client: RMT - GREENVILLE
Date: July 02, 2009

General Information:
2 samples were analyzed for EPA 8260. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 5035A with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

QC Batch: MSV/4795

L0: Analyte recovery in the laboratory control sample (LCS) was outside QC limits.

- LCS (Lab ID: 173462)
  - 1,1,2,2-Tetrachloroethane
- LCSD (Lab ID: 173463)
  - 1,1,2,2-Tetrachloroethane

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: MSV/4795

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: 71238.40 TASK 1 PLANT SITE
Pace Project No.: 4018864

Method: EPA 8260
Description: 8260 MSV 5035 Med Level
Client: RMT - GREENVILLE
Date: July 02, 2009

General Information:
1 sample was analyzed for EPA 8260. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 5035/5030B with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

Analyte Comments:

QC Batch: MSV/4806

1j: Surrogate recovery outside laboratory control limits due to methanol leakage.
- CP-D-03 21.3'-21.8' (Lab ID: 4018864003)
  - 4-Bromofluorobenzene (S)
  - Dibromofluoromethane (S)
  - Toluene-d8 (S)

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PROJECT NARRATIVE

Project: 71238.40 TASK 1 PLANT SITE
Pace Project No.: 4018864

Method: **ASTM D2974-87**
Description: Percent Moisture
Client: RMT - GREENVILLE
Date: July 02, 2009

General Information:
3 samples were analyzed for ASTM D2974-87. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: 71238.40 TASK 1 PLANT SITE
Pace Project No.: 4018864

Sample: CP-D-02 25.0' **Lab ID: 4018864001** Collected: 06/18/09 08:00 Received: 06/19/09 10:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035 Low Level	Analytical Method: EPA 8260 Preparation Method: EPA 5035A								
Acetone	**75.5**	ug/kg	24.0	8.0	1	06/22/09 07:47	06/22/09 14:51	67-64-1	
Benzene	**<0.74**	ug/kg	6.0	0.74	1	06/22/09 07:47	06/22/09 14:51	71-43-2	
Bromodichloromethane	**<0.42**	ug/kg	6.0	0.42	1	06/22/09 07:47	06/22/09 14:51	75-27-4	
Bromoform	**<1.2**	ug/kg	6.0	1.2	1	06/22/09 07:47	06/22/09 14:51	75-25-2	
Bromomethane	**<1.4**	ug/kg	6.0	1.4	1	06/22/09 07:47	06/22/09 14:51	74-83-9	
2-Butanone (MEK)	**<2.2**	ug/kg	6.0	2.2	1	06/22/09 07:47	06/22/09 14:51	78-93-3	
Carbon disulfide	**<1.3**	ug/kg	6.0	1.3	1	06/22/09 07:47	06/22/09 14:51	75-15-0	
Carbon tetrachloride	**<0.95**	ug/kg	6.0	0.95	1	06/22/09 07:47	06/22/09 14:51	56-23-5	
Chlorobenzene	**<0.25**	ug/kg	6.0	0.25	1	06/22/09 07:47	06/22/09 14:51	108-90-7	
Chloroethane	**<1.7**	ug/kg	6.0	1.7	1	06/22/09 07:47	06/22/09 14:51	75-00-3	
Chloroform	**<0.65**	ug/kg	6.0	0.65	1	06/22/09 07:47	06/22/09 14:51	67-66-3	
Chloromethane	**<1.0**	ug/kg	6.0	1.0	1	06/22/09 07:47	06/22/09 14:51	74-87-3	
Dibromochloromethane	**<0.85**	ug/kg	6.0	0.85	1	06/22/09 07:47	06/22/09 14:51	124-48-1	
1,1-Dichloroethane	**<0.83**	ug/kg	6.0	0.83	1	06/22/09 07:47	06/22/09 14:51	75-34-3	
1,2-Dichloroethane	**<0.69**	ug/kg	6.0	0.69	1	06/22/09 07:47	06/22/09 14:51	107-06-2	
1,1-Dichloroethene	**<0.63**	ug/kg	6.0	0.63	1	06/22/09 07:47	06/22/09 14:51	75-35-4	
cis-1,2-Dichloroethene	**<1.2**	ug/kg	6.0	1.2	1	06/22/09 07:47	06/22/09 14:51	156-59-2	
trans-1,2-Dichloroethene	**<0.90**	ug/kg	6.0	0.90	1	06/22/09 07:47	06/22/09 14:51	156-60-5	
1,2-Dichloropropane	**<0.76**	ug/kg	6.0	0.76	1	06/22/09 07:47	06/22/09 14:51	78-87-5	
cis-1,3-Dichloropropene	**<0.65**	ug/kg	6.0	0.65	1	06/22/09 07:47	06/22/09 14:51	10061-01-5	
trans-1,3-Dichloropropene	**<0.63**	ug/kg	6.0	0.63	1	06/22/09 07:47	06/22/09 14:51	10061-02-6	
Ethylbenzene	**<0.32**	ug/kg	6.0	0.32	1	06/22/09 07:47	06/22/09 14:51	100-41-4	
2-Hexanone	**<1.6**	ug/kg	6.0	1.6	1	06/22/09 07:47	06/22/09 14:51	591-78-6	
Methylene Chloride	**<0.48**	ug/kg	6.0	0.48	1	06/22/09 07:47	06/22/09 14:51	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<1.0**	ug/kg	6.0	1.0	1	06/22/09 07:47	06/22/09 14:51	108-10-1	
Styrene	**<0.14**	ug/kg	6.0	0.14	1	06/22/09 07:47	06/22/09 14:51	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.89**	ug/kg	6.0	0.89	1	06/22/09 07:47	06/22/09 14:51	79-34-5	L2
Tetrachloroethene	**3.5J**	ug/kg	6.0	1.1	1	06/22/09 07:47	06/22/09 14:51	127-18-4	
Toluene	**<1.0**	ug/kg	6.0	1.0	1	06/22/09 07:47	06/22/09 14:51	108-88-3	
1,1,1-Trichloroethane	**<0.93**	ug/kg	6.0	0.93	1	06/22/09 07:47	06/22/09 14:51	71-55-6	
1,1,2-Trichloroethane	**<0.86**	ug/kg	6.0	0.86	1	06/22/09 07:47	06/22/09 14:51	79-00-5	
Trichloroethene	**0.99J**	ug/kg	6.0	0.69	1	06/22/09 07:47	06/22/09 14:51	79-01-6	
Vinyl chloride	**<1.0**	ug/kg	6.0	1.0	1	06/22/09 07:47	06/22/09 14:51	75-01-4	
Xylene (Total)	**<2.0**	ug/kg	18.0	2.0	1	06/22/09 07:47	06/22/09 14:51	1330-20-7	
Dibromofluoromethane (S)	88	%	63-130		1	06/22/09 07:47	06/22/09 14:51	1868-53-7	
Toluene-d8 (S)	94	%	70-130		1	06/22/09 07:47	06/22/09 14:51	2037-26-5	
4-Bromofluorobenzene (S)	91	%	70-130		1	06/22/09 07:47	06/22/09 14:51	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**13.8**	%	0.10	0.10	1		06/25/09 07:42		

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ANALYTICAL RESULTS

Project: 71238.40 TASK 1 PLANT SITE
Pace Project No.: 4018864

Sample: CP-D-03 11.5'-12.0' **Lab ID: 4018864002** Collected: 06/18/09 12:50 Received: 06/19/09 10:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035 Low Level	Analytical Method: EPA 8260 Preparation Method: EPA 5035A								
Acetone	**<7.3**	ug/kg	21.8	7.3	1	06/22/09 07:47	06/22/09 15:14	67-64-1	
Benzene	**<0.67**	ug/kg	5.5	0.67	1	06/22/09 07:47	06/22/09 15:14	71-43-2	
Bromodichloromethane	**<0.38**	ug/kg	5.5	0.38	1	06/22/09 07:47	06/22/09 15:14	75-27-4	
Bromoform	**<1.1**	ug/kg	5.5	1.1	1	06/22/09 07:47	06/22/09 15:14	75-25-2	
Bromomethane	**<1.2**	ug/kg	5.5	1.2	1	06/22/09 07:47	06/22/09 15:14	74-83-9	
2-Butanone (MEK)	**<2.0**	ug/kg	5.5	2.0	1	06/22/09 07:47	06/22/09 15:14	78-93-3	
Carbon disulfide	**<1.2**	ug/kg	5.5	1.2	1	06/22/09 07:47	06/22/09 15:14	75-15-0	
Carbon tetrachloride	**<0.87**	ug/kg	5.5	0.87	1	06/22/09 07:47	06/22/09 15:14	56-23-5	
Chlorobenzene	**<0.22**	ug/kg	5.5	0.22	1	06/22/09 07:47	06/22/09 15:14	108-90-7	
Chloroethane	**<1.6**	ug/kg	5.5	1.6	1	06/22/09 07:47	06/22/09 15:14	75-00-3	
Chloroform	**<0.59**	ug/kg	5.5	0.59	1	06/22/09 07:47	06/22/09 15:14	67-66-3	
Chloromethane	**<0.93**	ug/kg	5.5	0.93	1	06/22/09 07:47	06/22/09 15:14	74-87-3	
Dibromochloromethane	**<0.77**	ug/kg	5.5	0.77	1	06/22/09 07:47	06/22/09 15:14	124-48-1	
1,1-Dichloroethane	**<0.75**	ug/kg	5.5	0.75	1	06/22/09 07:47	06/22/09 15:14	75-34-3	
1,2-Dichloroethane	**<0.62**	ug/kg	5.5	0.62	1	06/22/09 07:47	06/22/09 15:14	107-06-2	
1,1-Dichloroethene	**<0.57**	ug/kg	5.5	0.57	1	06/22/09 07:47	06/22/09 15:14	75-35-4	
cis-1,2-Dichloroethene	**<1.1**	ug/kg	5.5	1.1	1	06/22/09 07:47	06/22/09 15:14	156-59-2	
trans-1,2-Dichloroethene	**<0.82**	ug/kg	5.5	0.82	1	06/22/09 07:47	06/22/09 15:14	156-60-5	
1,2-Dichloropropane	**<0.69**	ug/kg	5.5	0.69	1	06/22/09 07:47	06/22/09 15:14	78-87-5	
cis-1,3-Dichloropropene	**<0.59**	ug/kg	5.5	0.59	1	06/22/09 07:47	06/22/09 15:14	10061-01-5	
trans-1,3-Dichloropropene	**<0.57**	ug/kg	5.5	0.57	1	06/22/09 07:47	06/22/09 15:14	10061-02-6	
Ethylbenzene	**<0.29**	ug/kg	5.5	0.29	1	06/22/09 07:47	06/22/09 15:14	100-41-4	
2-Hexanone	**<1.4**	ug/kg	5.5	1.4	1	06/22/09 07:47	06/22/09 15:14	591-78-6	
Methylene Chloride	**<0.44**	ug/kg	5.5	0.44	1	06/22/09 07:47	06/22/09 15:14	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<0.92**	ug/kg	5.5	0.92	1	06/22/09 07:47	06/22/09 15:14	108-10-1	
Styrene	**<0.13**	ug/kg	5.5	0.13	1	06/22/09 07:47	06/22/09 15:14	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.81**	ug/kg	5.5	0.81	1	06/22/09 07:47	06/22/09 15:14	79-34-5	L2
Tetrachloroethene	**189**	ug/kg	5.5	1.0	1	06/22/09 07:47	06/22/09 15:14	127-18-4	
Toluene	**2.0J**	ug/kg	5.5	0.92	1	06/22/09 07:47	06/22/09 15:14	108-88-3	
1,1,1-Trichloroethane	**<0.84**	ug/kg	5.5	0.84	1	06/22/09 07:47	06/22/09 15:14	71-55-6	
1,1,2-Trichloroethane	**<0.78**	ug/kg	5.5	0.78	1	06/22/09 07:47	06/22/09 15:14	79-00-5	
Trichloroethene	**73.7**	ug/kg	5.5	0.63	1	06/22/09 07:47	06/22/09 15:14	79-01-6	
Vinyl chloride	**<0.95**	ug/kg	5.5	0.95	1	06/22/09 07:47	06/22/09 15:14	75-01-4	
Xylene (Total)	**<1.8**	ug/kg	16.4	1.8	1	06/22/09 07:47	06/22/09 15:14	1330-20-7	
Dibromofluoromethane (S)	91	%	63-130		1	06/22/09 07:47	06/22/09 15:14	1868-53-7	
Toluene-d8 (S)	101	%	70-130		1	06/22/09 07:47	06/22/09 15:14	2037-26-5	
4-Bromofluorobenzene (S)	80	%	70-130		1	06/22/09 07:47	06/22/09 15:14	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**19.7**	%	0.10	0.10	1		06/25/09 07:43		

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ANALYTICAL RESULTS

Project: 71238.40 TASK 1 PLANT SITE
Pace Project No.: 4018864

Sample: CP-D-03 21.3'-21.8' **Lab ID: 4018864003** Collected: 06/18/09 13:30 Received: 06/19/09 10:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035 Med Level	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
Acetone	**<170**	ug/kg	337	170	1	06/23/09 13:17	06/24/09 11:48	67-64-1	
Benzene	**<15.1**	ug/kg	33.7	15.1	1	06/23/09 13:17	06/24/09 11:48	71-43-2	
Bromodichloromethane	**<12.6**	ug/kg	67.4	12.6	1	06/23/09 13:17	06/24/09 11:48	75-27-4	
Bromoform	**<34.9**	ug/kg	67.4	34.9	1	06/23/09 13:17	06/24/09 11:48	75-25-2	
Bromomethane	**<30.3**	ug/kg	67.4	30.3	1	06/23/09 13:17	06/24/09 11:48	74-83-9	
2-Butanone (MEK)	**<112**	ug/kg	337	112	1	06/23/09 13:17	06/24/09 11:48	78-93-3	
Carbon disulfide	**<9.8**	ug/kg	67.4	9.8	1	06/23/09 13:17	06/24/09 11:48	75-15-0	
Carbon tetrachloride	**<13.7**	ug/kg	67.4	13.7	1	06/23/09 13:17	06/24/09 11:48	56-23-5	
Chlorobenzene	**<11.0**	ug/kg	67.4	11.0	1	06/23/09 13:17	06/24/09 11:48	108-90-7	
Chloroethane	**<30.1**	ug/kg	67.4	30.1	1	06/23/09 13:17	06/24/09 11:48	75-00-3	
Chloroform	**<9.8**	ug/kg	337	9.8	1	06/23/09 13:17	06/24/09 11:48	67-66-3	
Chloromethane	**<13.6**	ug/kg	67.4	13.6	1	06/23/09 13:17	06/24/09 11:48	74-87-3	
Dibromochloromethane	**<14.0**	ug/kg	67.4	14.0	1	06/23/09 13:17	06/24/09 11:48	124-48-1	
1,1-Dichloroethane	**<8.9**	ug/kg	67.4	8.9	1	06/23/09 13:17	06/24/09 11:48	75-34-3	
1,2-Dichloroethane	**<17.8**	ug/kg	33.7	17.8	1	06/23/09 13:17	06/24/09 11:48	107-06-2	
1,1-Dichloroethene	**<20.7**	ug/kg	67.4	20.7	1	06/23/09 13:17	06/24/09 11:48	75-35-4	
cis-1,2-Dichloroethene	**<11.2**	ug/kg	67.4	11.2	1	06/23/09 13:17	06/24/09 11:48	156-59-2	
trans-1,2-Dichloroethene	**<25.2**	ug/kg	67.4	25.2	1	06/23/09 13:17	06/24/09 11:48	156-60-5	
1,2-Dichloropropane	**<11.5**	ug/kg	67.4	11.5	1	06/23/09 13:17	06/24/09 11:48	78-87-5	
cis-1,3-Dichloropropene	**<12.9**	ug/kg	67.4	12.9	1	06/23/09 13:17	06/24/09 11:48	10061-01-5	
trans-1,3-Dichloropropene	**<14.2**	ug/kg	67.4	14.2	1	06/23/09 13:17	06/24/09 11:48	10061-02-6	
Ethylbenzene	**<13.8**	ug/kg	33.7	13.8	1	06/23/09 13:17	06/24/09 11:48	100-41-4	
2-Hexanone	**<66.8**	ug/kg	337	66.8	1	06/23/09 13:17	06/24/09 11:48	591-78-6	
Methylene Chloride	**<11.0**	ug/kg	67.4	11.0	1	06/23/09 13:17	06/24/09 11:48	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<21.3**	ug/kg	67.4	21.3	1	06/23/09 13:17	06/24/09 11:48	108-10-1	
Styrene	**<16.2**	ug/kg	67.4	16.2	1	06/23/09 13:17	06/24/09 11:48	100-42-5	
1,1,2,2-Tetrachloroethane	**<16.9**	ug/kg	67.4	16.9	1	06/23/09 13:17	06/24/09 11:48	79-34-5	
Tetrachloroethene	**1660**	ug/kg	67.4	14.6	1	06/23/09 13:17	06/24/09 11:48	127-18-4	
Toluene	**<10.4**	ug/kg	67.4	10.4	1	06/23/09 13:17	06/24/09 11:48	108-88-3	
1,1,1-Trichloroethane	**<12.6**	ug/kg	67.4	12.6	1	06/23/09 13:17	06/24/09 11:48	71-55-6	
1,1,2-Trichloroethane	**<27.1**	ug/kg	67.4	27.1	1	06/23/09 13:17	06/24/09 11:48	79-00-5	
Trichloroethene	**628**	ug/kg	67.4	13.1	1	06/23/09 13:17	06/24/09 11:48	79-01-6	
Vinyl chloride	**<13.5**	ug/kg	67.4	13.5	1	06/23/09 13:17	06/24/09 11:48	75-01-4	
Xylene (Total)	**227**	ug/kg	101	29.3	1	06/23/09 13:17	06/24/09 11:48	1330-20-7	
Dibromofluoromethane (S)	149	%	63-130		1	06/23/09 13:17	06/24/09 11:48	1868-53-7	1j
Toluene-d8 (S)	152	%	70-130		1	06/23/09 13:17	06/24/09 11:48	2037-26-5	1j
4-Bromofluorobenzene (S)	148	%	70-130		1	06/23/09 13:17	06/24/09 11:48	460-00-4	1j
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**22.8**	%	0.10	0.10	1		06/25/09 07:43		

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ANALYTICAL RESULTS

Project: 71238.40 TASK 1 PLANT SITE
Pace Project No.: 4018864

Sample: TBLK-09203 **Lab ID: 4018864004** Collected: 06/18/09 00:00 Received: 06/19/09 10:00 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Acetone	**<5.0**	ug/L	20.0	5.0	1		06/24/09 12:34	67-64-1	
Benzene	**<0.41**	ug/L	1.0	0.41	1		06/24/09 12:34	71-43-2	
Bromodichloromethane	**<0.56**	ug/L	1.0	0.56	1		06/24/09 12:34	75-27-4	
Bromoform	**<0.94**	ug/L	1.0	0.94	1		06/24/09 12:34	75-25-2	
Bromomethane	**<0.91**	ug/L	1.0	0.91	1		06/24/09 12:34	74-83-9	
2-Butanone (MEK)	**<4.3**	ug/L	20.0	4.3	1		06/24/09 12:34	78-93-3	
Carbon disulfide	**<0.66**	ug/L	1.0	0.66	1		06/24/09 12:34	75-15-0	
Carbon tetrachloride	**<0.49**	ug/L	1.0	0.49	1		06/24/09 12:34	56-23-5	
Chlorobenzene	**<0.41**	ug/L	1.0	0.41	1		06/24/09 12:34	108-90-7	
Chloroethane	**<0.97**	ug/L	1.0	0.97	1		06/24/09 12:34	75-00-3	
Chloroform	**<1.3**	ug/L	5.0	1.3	1		06/24/09 12:34	67-66-3	
Chloromethane	**<0.24**	ug/L	1.0	0.24	1		06/24/09 12:34	74-87-3	
Dibromochloromethane	**<0.81**	ug/L	1.0	0.81	1		06/24/09 12:34	124-48-1	
1,1-Dichloroethane	**<0.75**	ug/L	1.0	0.75	1		06/24/09 12:34	75-34-3	
1,2-Dichloroethane	**<0.36**	ug/L	1.0	0.36	1		06/24/09 12:34	107-06-2	
1,1-Dichloroethene	**<0.57**	ug/L	1.0	0.57	1		06/24/09 12:34	75-35-4	
cis-1,2-Dichloroethene	**<0.83**	ug/L	1.0	0.83	1		06/24/09 12:34	156-59-2	
trans-1,2-Dichloroethene	**<0.89**	ug/L	1.0	0.89	1		06/24/09 12:34	156-60-5	
1,2-Dichloropropane	**<0.49**	ug/L	1.0	0.49	1		06/24/09 12:34	78-87-5	
cis-1,3-Dichloropropene	**<0.20**	ug/L	1.0	0.20	1		06/24/09 12:34	10061-01-5	
trans-1,3-Dichloropropene	**<0.19**	ug/L	1.0	0.19	1		06/24/09 12:34	10061-02-6	
Ethylbenzene	**<0.54**	ug/L	1.0	0.54	1		06/24/09 12:34	100-41-4	
2-Hexanone	**<2.0**	ug/L	5.0	2.0	1		06/24/09 12:34	591-78-6	
Methylene Chloride	**<0.43**	ug/L	1.0	0.43	1		06/24/09 12:34	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<1.2**	ug/L	5.0	1.2	1		06/24/09 12:34	108-10-1	
Styrene	**<0.86**	ug/L	1.0	0.86	1		06/24/09 12:34	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.20**	ug/L	1.0	0.20	1		06/24/09 12:34	79-34-5	
Tetrachloroethene	**<0.45**	ug/L	1.0	0.45	1		06/24/09 12:34	127-18-4	
Toluene	**<0.67**	ug/L	1.0	0.67	1		06/24/09 12:34	108-88-3	
1,1,1-Trichloroethane	**<0.90**	ug/L	1.0	0.90	1		06/24/09 12:34	71-55-6	
1,1,2-Trichloroethane	**<0.42**	ug/L	1.0	0.42	1		06/24/09 12:34	79-00-5	
Trichloroethene	**<0.48**	ug/L	1.0	0.48	1		06/24/09 12:34	79-01-6	
Vinyl chloride	**<0.18**	ug/L	1.0	0.18	1		06/24/09 12:34	75-01-4	
Xylene (Total)	**<2.6**	ug/L	3.0	2.6	1		06/24/09 12:34	1330-20-7	
4-Bromofluorobenzene (S)	98	%	70-130		1		06/24/09 12:34	460-00-4	
Dibromofluoromethane (S)	103	%	70-130		1		06/24/09 12:34	1868-53-7	
Toluene-d8 (S)	100	%	70-130		1		06/24/09 12:34	2037-26-5	

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QUALITY CONTROL DATA

Project: 71238.40 TASK 1 PLANT SITE
Pace Project No.: 4018864

QC Batch: MSV/4791
QC Batch Method: EPA 8260
Analysis Method: EPA 8260
Analysis Description: 8260 MSV
Associated Lab Samples: 4018864004

METHOD BLANK: 173297
Matrix: Water
Associated Lab Samples: 4018864004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	<0.90	1.0	06/24/09 06:41	
1,1,2,2-Tetrachloroethane	ug/L	<0.20	1.0	06/24/09 06:41	
1,1,2-Trichloroethane	ug/L	<0.42	1.0	06/24/09 06:41	
1,1-Dichloroethane	ug/L	<0.75	1.0	06/24/09 06:41	
1,1-Dichloroethene	ug/L	<0.57	1.0	06/24/09 06:41	
1,2-Dichloroethane	ug/L	<0.36	1.0	06/24/09 06:41	
1,2-Dichloropropane	ug/L	<0.49	1.0	06/24/09 06:41	
2-Butanone (MEK)	ug/L	<4.3	20.0	06/24/09 06:41	
2-Hexanone	ug/L	<2.0	5.0	06/24/09 06:41	
4-Methyl-2-pentanone (MIBK)	ug/L	<1.2	5.0	06/24/09 06:41	
Acetone	ug/L	<5.0	20.0	06/24/09 06:41	
Benzene	ug/L	<0.41	1.0	06/24/09 06:41	
Bromodichloromethane	ug/L	<0.56	1.0	06/24/09 06:41	
Bromoform	ug/L	<0.94	1.0	06/24/09 06:41	
Bromomethane	ug/L	<0.91	1.0	06/24/09 06:41	
Carbon disulfide	ug/L	<0.66	1.0	06/24/09 06:41	
Carbon tetrachloride	ug/L	<0.49	1.0	06/24/09 06:41	
Chlorobenzene	ug/L	<0.41	1.0	06/24/09 06:41	
Chloroethane	ug/L	<0.97	1.0	06/24/09 06:41	
Chloroform	ug/L	<1.3	5.0	06/24/09 06:41	
Chloromethane	ug/L	<0.24	1.0	06/24/09 06:41	
cis-1,2-Dichloroethene	ug/L	<0.83	1.0	06/24/09 06:41	
cis-1,3-Dichloropropene	ug/L	<0.20	1.0	06/24/09 06:41	
Dibromochloromethane	ug/L	<0.81	1.0	06/24/09 06:41	
Ethylbenzene	ug/L	<0.54	1.0	06/24/09 06:41	
Methylene Chloride	ug/L	<0.43	1.0	06/24/09 06:41	
Styrene	ug/L	<0.86	1.0	06/24/09 06:41	
Tetrachloroethene	ug/L	<0.45	1.0	06/24/09 06:41	
Toluene	ug/L	<0.67	1.0	06/24/09 06:41	
trans-1,2-Dichloroethene	ug/L	<0.89	1.0	06/24/09 06:41	
trans-1,3-Dichloropropene	ug/L	<0.19	1.0	06/24/09 06:41	
Trichloroethene	ug/L	<0.48	1.0	06/24/09 06:41	
Vinyl chloride	ug/L	<0.18	1.0	06/24/09 06:41	
Xylene (Total)	ug/L	<2.6	3.0	06/24/09 06:41	
4-Bromofluorobenzene (S)	%	98	70-130	06/24/09 06:41	
Dibromofluoromethane (S)	%	100	70-130	06/24/09 06:41	
Toluene-d8 (S)	%	100	70-130	06/24/09 06:41	

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QUALITY CONTROL DATA

Project: 71238.40 TASK 1 PLANT SITE
Pace Project No.: 4018864

LABORATORY CONTROL SAMPLE & LCSD: 173298 173299

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/L	50	50.6	51.1	101	102	70-132	1	20	
1,1,2,2-Tetrachloroethane	ug/L	50	44.9	46.4	90	93	69-130	3	20	
1,1,2-Trichloroethane	ug/L	50	48.6	50.4	97	101	70-130	4	20	
1,1-Dichloroethane	ug/L	50	49.6	49.7	99	99	70-130	.2	20	
1,1-Dichloroethene	ug/L	50	49.0	49.4	98	99	70-130	.7	20	
1,2-Dichloroethane	ug/L	50	49.3	48.7	99	97	70-134	1	20	
1,2-Dichloropropane	ug/L	50	51.3	53.0	103	106	70-130	3	20	
2-Butanone (MEK)	ug/L	50	47.5	46.6	95	93	36-181	2	35	
2-Hexanone	ug/L	50	46.3	47.8	93	96	46-171	3	27	
4-Methyl-2-pentanone (MIBK)	ug/L	50	47.9	49.6	96	99	50-150	4	20	
Acetone	ug/L	50	47.6	48.7	95	97	10-200	2	36	
Benzene	ug/L	50	50.8	50.7	102	101	70-131	.1	20	
Bromodichloromethane	ug/L	50	49.1	50.9	98	102	70-130	3	20	
Bromoform	ug/L	50	40.0	41.4	80	83	70-130	3	20	
Bromomethane	ug/L	50	36.3	44.1	73	88	23-200	19	20	
Carbon disulfide	ug/L	50	48.9	49.5	98	99	70-138	1	20	
Carbon tetrachloride	ug/L	50	51.4	52.0	103	104	70-144	1	20	
Chlorobenzene	ug/L	50	49.4	50.2	99	100	70-130	2	20	
Chloroethane	ug/L	50	50.4	50.8	101	102	70-136	.8	20	
Chloroform	ug/L	50	48.7	49.1	97	98	70-130	.8	20	
Chloromethane	ug/L	50	38.2	37.8	76	76	54-148	.8	20	
cis-1,2-Dichloroethene	ug/L	50	49.8	49.4	100	99	70-130	.7	20	
cis-1,3-Dichloropropene	ug/L	50	47.5	50.2	95	100	70-130	5	20	
Dibromochloromethane	ug/L	50	43.5	44.4	87	89	70-130	2	20	
Ethylbenzene	ug/L	50	50.4	51.5	101	103	70-130	2	20	
Methylene Chloride	ug/L	50	49.3	49.2	99	98	66-130	.1	20	
Styrene	ug/L	50	46.4	47.3	93	95	70-130	2	20	
Tetrachloroethene	ug/L	50	49.2	49.8	98	100	75-130	1	20	
Toluene	ug/L	50	49.3	50.4	99	101	70-130	2	20	
trans-1,2-Dichloroethene	ug/L	50	50.0	50.9	100	102	70-130	2	20	
trans-1,3-Dichloropropene	ug/L	50	43.5	46.8	87	94	70-130	7	20	
Trichloroethene	ug/L	50	51.4	52.4	103	105	70-130	2	20	
Vinyl chloride	ug/L	50	46.0	45.5	92	91	63-141	1	20	
Xylene (Total)	ug/L	150	149	153	99	102	70-130	3	20	
4-Bromofluorobenzene (S)	%				98	98	70-130			
Dibromofluoromethane (S)	%				101	99	70-130			
Toluene-d8 (S)	%				100	100	70-130			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 173892 173893

Parameter	Units	4018927001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1-Trichloroethane	ug/L	13.0	50	50	65.3	65.8	105	106	70-137	.8	20	
1,1,2,2-Tetrachloroethane	ug/L	ND	50	50	46.4	46.3	93	93	67-130	.2	20	
1,1,2-Trichloroethane	ug/L	ND	50	50	49.8	49.8	100	100	70-130	.2	20	
1,1-Dichloroethane	ug/L	ND	50	50	50.0	49.3	100	99	70-130	1	20	
1,1-Dichloroethene	ug/L	ND	50	50	49.2	49.1	98	98	70-130	.2	20	

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QUALITY CONTROL DATA

Project: 71238.40 TASK 1 PLANT SITE
Pace Project No.: 4018864

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 173892 173893

Parameter	Units	4018927001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dichloroethane	ug/L	ND	50	50	49.5	49.9	99	100	69-134	.9	20	
1,2-Dichloropropane	ug/L	ND	50	50	52.2	51.6	104	103	70-130	1	20	
2-Butanone (MEK)	ug/L	ND	50	50	49.8	46.6	100	93	36-181	7	35	
2-Hexanone	ug/L	ND	50	50	48.7	48.1	97	96	46-171	1	27	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	50	50	49.8	50.2	100	100	50-150	.7	20	
Acetone	ug/L	ND	50	50	48.6	48.7	97	97	10-200	.2	36	
Benzene	ug/L	ND	50	50	51.3	51.1	103	102	69-131	.5	20	
Bromodichloromethane	ug/L	ND	50	50	51.0	50.0	102	100	70-130	2	20	
Bromoform	ug/L	ND	50	50	42.3	42.6	85	85	68-130	.8	20	
Bromomethane	ug/L	ND	50	50	45.4	44.9	91	90	22-200	1	20	
Carbon disulfide	ug/L	ND	50	50	49.9	49.0	100	98	68-138	2	20	
Carbon tetrachloride	ug/L	ND	50	50	52.5	52.4	105	105	70-144	.3	20	
Chlorobenzene	ug/L	ND	50	50	49.7	50.0	99	100	70-130	.6	20	
Chloroethane	ug/L	ND	50	50	50.9	49.9	102	100	66-136	2	20	
Chloroform	ug/L	ND	50	50	49.0	49.0	98	98	70-130	.1	20	
Chloromethane	ug/L	ND	50	50	38.0	37.4	76	75	54-148	1	20	
cis-1,2-Dichloroethene	ug/L	ND	50	50	49.9	49.3	100	99	70-130	1	20	
cis-1,3-Dichloropropene	ug/L	ND	50	50	50.8	50.8	102	102	70-130	.1	20	
Dibromochloromethane	ug/L	ND	50	50	44.3	44.1	89	88	70-130	.4	20	
Ethylbenzene	ug/L	ND	50	50	51.7	51.1	103	102	70-130	1	20	
Methylene Chloride	ug/L	ND	50	50	49.7	49.9	99	100	64-130	.3	20	
Styrene	ug/L	ND	50	50	47.1	46.1	94	92	43-130	2	20	
Tetrachloroethene	ug/L	ND	50	50	49.6	49.5	99	99	70-130	.1	20	
Toluene	ug/L	ND	50	50	50.4	50.2	100	100	70-130	.6	20	
trans-1,2-Dichloroethene	ug/L	ND	50	50	50.7	50.7	101	101	70-130	.08	20	
trans-1,3-Dichloropropene	ug/L	ND	50	50	47.7	48.3	95	97	70-130	1	20	
Trichloroethene	ug/L	ND	50	50	52.9	51.6	106	103	70-130	3	20	
Vinyl chloride	ug/L	ND	50	50	45.1	43.9	90	88	59-141	3	20	
Xylene (Total)	ug/L	ND	150	150	151	151	101	101	70-130	.5	20	
4-Bromofluorobenzene (S)	%						98	99	70-130			
Dibromofluoromethane (S)	%						99	100	70-130			
Toluene-d8 (S)	%						99	101	70-130			

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QUALITY CONTROL DATA

Project: 71238.40 TASK 1 PLANT SITE
Pace Project No.: 4018864

QC Batch: MSV/4795 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV 5035 Low Level
Associated Lab Samples: 4018864001, 4018864002

METHOD BLANK: 173461 Matrix: Solid
Associated Lab Samples: 4018864001, 4018864002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/kg	<0.77	5.0	06/22/09 08:57	
1,1,2,2-Tetrachloroethane	ug/kg	<0.74	5.0	06/22/09 08:57	
1,1,2-Trichloroethane	ug/kg	<0.71	5.0	06/22/09 08:57	
1,1-Dichloroethane	ug/kg	<0.69	5.0	06/22/09 08:57	
1,1-Dichloroethene	ug/kg	<0.52	5.0	06/22/09 08:57	
1,2-Dichloroethane	ug/kg	<0.57	5.0	06/22/09 08:57	
1,2-Dichloropropane	ug/kg	<0.64	5.0	06/22/09 08:57	
2-Butanone (MEK)	ug/kg	<1.8	5.0	06/22/09 08:57	
2-Hexanone	ug/kg	<1.3	5.0	06/22/09 08:57	
4-Methyl-2-pentanone (MIBK)	ug/kg	<0.85	5.0	06/22/09 08:57	
Acetone	ug/kg	<6.7	20.0	06/22/09 08:57	
Benzene	ug/kg	<0.61	5.0	06/22/09 08:57	
Bromodichloromethane	ug/kg	<0.35	5.0	06/22/09 08:57	
Bromoform	ug/kg	<0.99	5.0	06/22/09 08:57	
Bromomethane	ug/kg	<1.1	5.0	06/22/09 08:57	
Carbon disulfide	ug/kg	<1.1	5.0	06/22/09 08:57	
Carbon tetrachloride	ug/kg	<0.80	5.0	06/22/09 08:57	
Chlorobenzene	ug/kg	<0.21	5.0	06/22/09 08:57	
Chloroethane	ug/kg	<1.5	5.0	06/22/09 08:57	
Chloroform	ug/kg	<0.54	5.0	06/22/09 08:57	
Chloromethane	ug/kg	<0.85	5.0	06/22/09 08:57	
cis-1,2-Dichloroethene	ug/kg	<1.0	5.0	06/22/09 08:57	
cis-1,3-Dichloropropene	ug/kg	<0.54	5.0	06/22/09 08:57	
Dibromochloromethane	ug/kg	<0.71	5.0	06/22/09 08:57	
Ethylbenzene	ug/kg	<0.26	5.0	06/22/09 08:57	
Methylene Chloride	ug/kg	<0.40	5.0	06/22/09 08:57	
Styrene	ug/kg	<0.12	5.0	06/22/09 08:57	
Tetrachloroethene	ug/kg	<0.92	5.0	06/22/09 08:57	
Toluene	ug/kg	<0.85	5.0	06/22/09 08:57	
trans-1,2-Dichloroethene	ug/kg	<0.75	5.0	06/22/09 08:57	
trans-1,3-Dichloropropene	ug/kg	<0.53	5.0	06/22/09 08:57	
Trichloroethene	ug/kg	<0.57	5.0	06/22/09 08:57	
Vinyl chloride	ug/kg	<0.87	5.0	06/22/09 08:57	
4-Bromofluorobenzene (S)	%	89	70-130	06/22/09 08:57	
Dibromofluoromethane (S)	%	78	63-130	06/22/09 08:57	
Toluene-d8 (S)	%	95	70-130	06/22/09 08:57	

LABORATORY CONTROL SAMPLE & LCSD: 173462 173463

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/kg	50	49.3	50.2	99	100	70-130	2	20	

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QUALITY CONTROL DATA

Project: 71238.40 TASK 1 PLANT SITE
Pace Project No.: 4018864

LABORATORY CONTROL SAMPLE & LCSD: 173462 173463

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,1,2,2-Tetrachloroethane	ug/kg	50	33.4	33.0	67	66	70-130	1	20	L0
1,1,2-Trichloroethane	ug/kg	50	45.0	46.3	90	93	70-130	3	20	
1,1-Dichloroethane	ug/kg	50	41.3	42.5	83	85	67-137	3	20	
1,1-Dichloroethene	ug/kg	50	56.8	55.9	114	112	70-130	2	20	
1,2-Dichloroethane	ug/kg	50	42.7	42.0	85	84	63-134	2	20	
1,2-Dichloropropane	ug/kg	50	43.8	43.9	88	88	70-130	.04	20	
2-Butanone (MEK)	ug/kg	50	27.0	30.5	54	61	35-150	12	42	
2-Hexanone	ug/kg	50	35.9	36.7	72	73	42-157	2	20	
4-Methyl-2-pentanone (MIBK)	ug/kg	50	38.3	38.3	77	77	50-150	.2	20	
Acetone	ug/kg	50	21.5	23.4	43	47	10-197	9	85	
Benzene	ug/kg	50	45.5	45.7	91	91	70-130	.4	20	
Bromodichloromethane	ug/kg	50	48.6	48.3	97	97	70-130	.7	20	
Bromoform	ug/kg	50	54.0	53.7	108	107	64-137	.5	20	
Bromomethane	ug/kg	50	62.1	61.0	124	122	66-136	2	20	
Carbon disulfide	ug/kg	50	53.0	52.4	106	105	54-154	1	20	
Carbon tetrachloride	ug/kg	50	52.4	52.5	105	105	70-130	.1	20	
Chlorobenzene	ug/kg	50	53.1	53.3	106	107	70-130	.3	20	
Chloroethane	ug/kg	50	52.5	53.8	105	108	59-140	2	20	
Chloroform	ug/kg	50	44.6	44.3	89	89	69-130	.6	20	
Chloromethane	ug/kg	50	51.3	50.8	103	102	27-141	.9	20	
cis-1,2-Dichloroethene	ug/kg	50	46.8	46.1	94	92	70-130	2	20	
cis-1,3-Dichloropropene	ug/kg	50	47.1	46.7	94	93	70-130	.9	20	
Dibromochloromethane	ug/kg	50	49.6	49.2	99	98	70-130	.8	20	
Ethylbenzene	ug/kg	50	51.3	51.7	103	103	70-130	.9	20	
Methylene Chloride	ug/kg	50	43.1	43.8	86	88	70-130	2	20	
Styrene	ug/kg	50	48.9	50.6	98	101	70-130	3	20	
Tetrachloroethene	ug/kg	50	62.5	63.9	125	128	67-139	2	20	
Toluene	ug/kg	50	52.3	52.0	105	104	70-130	.5	20	
trans-1,2-Dichloroethene	ug/kg	50	48.0	48.3	96	97	70-130	.6	20	
trans-1,3-Dichloropropene	ug/kg	50	45.3	44.6	91	89	70-130	2	20	
Trichloroethene	ug/kg	50	55.7	56.4	111	113	70-130	1	20	
Vinyl chloride	ug/kg	50	55.4	54.6	111	109	65-142	1	20	
4-Bromofluorobenzene (S)	%				91	88	70-130			
Dibromofluoromethane (S)	%				81	80	63-130			
Toluene-d8 (S)	%				97	96	70-130			

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QUALITY CONTROL DATA

Project: 71238.40 TASK 1 PLANT SITE
Pace Project No.: 4018864

QC Batch: MSV/4806
QC Batch Method: EPA 5035/5030B
Analysis Method: EPA 8260
Analysis Description: 8260 MSV 5035 Med Prep
Associated Lab Samples: 4018864003

METHOD BLANK: 173654
Matrix: Solid
Associated Lab Samples: 4018864003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/kg	<9.4	50.0	06/23/09 12:35	
1,1,2,2-Tetrachloroethane	ug/kg	<12.5	50.0	06/23/09 12:35	
1,1,2-Trichloroethane	ug/kg	<20.1	50.0	06/23/09 12:35	
1,1-Dichloroethane	ug/kg	<6.6	50.0	06/23/09 12:35	
1,1-Dichloroethene	ug/kg	<15.4	50.0	06/23/09 12:35	
1,2-Dichloroethane	ug/kg	<13.2	25.0	06/23/09 12:35	
1,2-Dichloropropane	ug/kg	<8.5	50.0	06/23/09 12:35	
2-Butanone (MEK)	ug/kg	<82.9	250	06/23/09 12:35	
2-Hexanone	ug/kg	<49.5	250	06/23/09 12:35	
4-Methyl-2-pentanone (MIBK)	ug/kg	<15.8	50.0	06/23/09 12:35	
Acetone	ug/kg	<126	250	06/23/09 12:35	
Benzene	ug/kg	<11.2	25.0	06/23/09 12:35	
Bromodichloromethane	ug/kg	<9.3	50.0	06/23/09 12:35	
Bromoform	ug/kg	<25.9	50.0	06/23/09 12:35	
Bromomethane	ug/kg	<22.5	50.0	06/23/09 12:35	
Carbon disulfide	ug/kg	<7.2	50.0	06/23/09 12:35	
Carbon tetrachloride	ug/kg	<10.1	50.0	06/23/09 12:35	
Chlorobenzene	ug/kg	<8.2	50.0	06/23/09 12:35	
Chloroethane	ug/kg	<22.3	50.0	06/23/09 12:35	
Chloroform	ug/kg	<7.2	250	06/23/09 12:35	
Chloromethane	ug/kg	<10.1	50.0	06/23/09 12:35	
cis-1,2-Dichloroethene	ug/kg	<8.3	50.0	06/23/09 12:35	
cis-1,3-Dichloropropene	ug/kg	<9.6	50.0	06/23/09 12:35	
Dibromochloromethane	ug/kg	<10.4	50.0	06/23/09 12:35	
Ethylbenzene	ug/kg	<10.2	25.0	06/23/09 12:35	
Methylene Chloride	ug/kg	<8.2	50.0	06/23/09 12:35	
Styrene	ug/kg	<12.0	50.0	06/23/09 12:35	
Tetrachloroethene	ug/kg	<10.8	50.0	06/23/09 12:35	
Toluene	ug/kg	<7.7	50.0	06/23/09 12:35	
trans-1,2-Dichloroethene	ug/kg	<18.7	50.0	06/23/09 12:35	
trans-1,3-Dichloropropene	ug/kg	<10.5	50.0	06/23/09 12:35	
Trichloroethene	ug/kg	<9.7	50.0	06/23/09 12:35	
Vinyl chloride	ug/kg	<10.0	50.0	06/23/09 12:35	
Xylene (Total)	ug/kg	<21.7	75.0	06/23/09 12:35	
4-Bromofluorobenzene (S)	%	107	70-130	06/23/09 12:35	
Dibromofluoromethane (S)	%	117	63-130	06/23/09 12:35	
Toluene-d8 (S)	%	119	70-130	06/23/09 12:35	

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QUALITY CONTROL DATA

Project: 71238.40 TASK 1 PLANT SITE
Pace Project No.: 4018864

LABORATORY CONTROL SAMPLE & LCSD: 173655 173656

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/kg	2500	2960	3060	118	122	70-130	3	20	
1,1,2,2-Tetrachloroethane	ug/kg	2500	2710	2910	108	117	70-130	7	20	
1,1,2-Trichloroethane	ug/kg	2500	2660	2780	106	111	70-130	4	20	
1,1-Dichloroethane	ug/kg	2500	2290	2400	92	96	67-137	5	20	
1,1-Dichloroethene	ug/kg	2500	2440	2520	97	101	70-130	4	20	
1,2-Dichloroethane	ug/kg	2500	2610	2640	104	105	63-134	1	20	
1,2-Dichloropropane	ug/kg	2500	2540	2700	102	108	70-130	6	20	
2-Butanone (MEK)	ug/kg	2500	3230	3420	129	137	35-150	6	42	
2-Hexanone	ug/kg	2500	2560	2630	102	105	42-157	3	20	
4-Methyl-2-pentanone (MIBK)	ug/kg	2500	2890	2710	116	109	50-150	6	20	
Acetone	ug/kg	2500	2240	2440	90	98	10-197	9	85	
Benzene	ug/kg	2500	2710	2770	108	111	70-130	2	20	
Bromodichloromethane	ug/kg	2500	2370	2460	95	99	70-130	4	20	
Bromoform	ug/kg	2500	2270	2390	91	96	64-137	5	20	
Bromomethane	ug/kg	2500	2090	2190	84	88	66-136	5	20	
Carbon disulfide	ug/kg	2500	2240	2330	90	93	54-154	4	20	
Carbon tetrachloride	ug/kg	2500	2810	2880	112	115	70-130	2	20	
Chlorobenzene	ug/kg	2500	2550	2670	102	107	70-130	5	20	
Chloroethane	ug/kg	2500	2180	2270	87	91	59-140	4	20	
Chloroform	ug/kg	2500	2610	2700	105	108	69-130	3	20	
Chloromethane	ug/kg	2500	2010	2130	80	85	27-141	6	20	
cis-1,2-Dichloroethene	ug/kg	2500	2690	2740	108	110	70-130	2	20	
cis-1,3-Dichloropropene	ug/kg	2500	2420	2530	97	101	70-130	4	20	
Dibromochloromethane	ug/kg	2500	2370	2510	95	101	70-130	6	20	
Ethylbenzene	ug/kg	2500	2770	2860	111	115	70-130	3	20	
Methylene Chloride	ug/kg	2500	2320	2420	93	97	70-130	4	20	
Styrene	ug/kg	2500	2100	2200	84	88	70-130	5	20	
Tetrachloroethene	ug/kg	2500	2870	2990	115	119	67-139	4	20	
Toluene	ug/kg	2500	2860	2970	114	119	70-130	4	20	
trans-1,2-Dichloroethene	ug/kg	2500	2380	2460	95	98	70-130	3	20	
trans-1,3-Dichloropropene	ug/kg	2500	2510	2630	100	105	70-130	5	20	
Trichloroethene	ug/kg	2500	2730	2870	109	115	70-130	5	20	
Vinyl chloride	ug/kg	2500	2280	2360	91	94	65-142	4	20	
Xylene (Total)	ug/kg	7500	7670	7950	102	106	70-130	4	20	
4-Bromofluorobenzene (S)	%				112	113	70-130			
Dibromofluoromethane (S)	%				115	117	63-130			
Toluene-d8 (S)	%				115	119	70-130			

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(920)469-2436

QUALITY CONTROL DATA

Project: 71238.40 TASK 1 PLANT SITE
Pace Project No.: 4018864

QC Batch: PMST/2623 Analysis Method: ASTM D2974-87
QC Batch Method: ASTM D2974-87 Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 4018864001, 4018864002, 4018864003

SAMPLE DUPLICATE: 174413

Parameter	Units	4018985002 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	12.2	11.6	5	10	

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QUALIFIERS

Project: 71238.40 TASK 1 PLANT SITE
Pace Project No.: 4018864

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

Pace Analytical is NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

U - Indicates the compound was analyzed for, but not detected.

LABORATORIES

PASI-G	Pace Analytical Services - Green Bay

BATCH QUALIFIERS

Batch: MSV/4795

[M5]	A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

ANALYTE QUALIFIERS

1j	Surrogate recovery outside laboratory control limits due to methanol leakage.
L0	Analyte recovery in the laboratory control sample (LCS) was outside QC limits.
L2	Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results may be biased low.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 71238.40 TASK 1 PLANT SITE
Pace Project No.: 4018864

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
4018864001	**CP-D-02 25.0'**	EPA 5035A	MSV/4767	EPA 8260	MSV/4795
4018864002	**CP-D-03 11.5'-12.0'**	EPA 5035A	MSV/4767	EPA 8260	MSV/4795
4018864004	**TBLK-09203**	EPA 8260	MSV/4791		
4018864003	**CP-D-03 21.3'-21.8'**	EPA 5035/5030B	MSV/4806	EPA 8260	MSV/4807
4018864001	**CP-D-02 25.0'**	ASTM D2974-87	PMST/2623		
4018864002	**CP-D-03 11.5'-12.0'**	ASTM D2974-87	PMST/2623		
4018864003	**CP-D-03 21.3'-21.8'**	ASTM D2974-87	PMST/2623		

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CHAIN OF CUSTODY

*Preservation Codes
A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH
H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

(Please Print Clearly)	
Company Name:	RMT
Branch/Location:	Greenville SC
Project Contact:	Terry Hertz
Phone:	(864) 281-0030
Project Number:	71239.40 T-1
Project Name:	Plant Site
Project State:	SC
Sampled By (Print):	WCH
Sampled By (Sign):	Bill Medlin
PO #:	Regulatory Program:

Data Package Options (billable)
☐ EPA Level III
☐ EPA Level IV

MS/MSD
☐ On your sample (billable)
☐ NOT needed on your sample

Matrix Codes

A = Air	W = Water
B = Biota	DW = Drinking Water
C = Charcoal	GW = Ground Water
O = Oil	SW = Surface Water
S = Soil	WW = Waste Water
SI = Sludge	WP = Wipe

PACE LAB #	CLIENT FIELD ID	COLLECTION DATE	COLLECTION TIME	MATRIX	FILTERED? (YES/NO)	PRESERVATION (CODE)*	Analyses Requested: VOC's	Moisture	VOC's	CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)
					Y/N	Pick Letter					
001	CP-D-02 25.0'	6-18-09	0800	SoU	N	E	1/2	1			2oz ag[A], 3-40ml EEF
002	CP-D-03 11.5'-12.0'	6-18-09	1250	SoU	N	E	1/2	1			
003	CP-D-03 21.3'-21.8'	6-18-09	1330	SoU	N	E	1/2	1			
004	TBLK-092203			DI	N	A			2		2-40ml B

Quote #:	
Mail To Contact:	
Mail To Company:	
Mail To Address:	
Invoice To Contact:	
Invoice To Company:	
Invoice To Address:	
Invoice To Phone:	
CLIENT COMMENTS	LAB COMMENTS (Lab Use Only) / Profile #

Rush Turnaround Time Requested - Prelims
(Rush TAT subject to approval/surcharge)
Date Needed:

Transmit Prelim Rush Results by (complete what you want):
Email #1:
Email #2:
Telephone:
Fax:

Samples on HOLD are subject to special pricing and release of liability

Relinquished By:	Date/Time:	Received By:	Date/Time:
Bill Medlin	6/18/09 1625		6/18/09 1625
	6/18/09 1750	Fed Ex 8682 8754 1173	6/18/09 1750
Fed Ex	6/19/09 1000		6/19/09 1000

PACE Project No.: 40188864
Receipt Temp = 3.5 °C
Sample Receipt pH OK / Adjusted
Cooler Custody Seal: Present / (Not Present)
Intact / Not Intact

Version 6.0 08/14/08

C019a(27Jun2008)

ORIGINAL

Sample Condition Upon Receipt

Pace Analytical

Client Name: RMT Project # 4018864

Courier: ☒ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace Other _____

Tracking #: _____

Optional: Proj. Due Date: Proj. Name:

Custody Seal on Cooler/Box Present: ☐ yes ☒ no Seals intact: ☐ yes ☐ no

Packing Material: ☒ Bubble Wrap ☒ Bubble Bags ☐ None ☒ Other foam inserts

Thermometer Used JB Type of Ice: (Wet) Blue None ☐ Samples on ice, cooling process has begun

Cooler Temperature 3.5° Biological Tissue is Frozen: Yes No

Date and Initials of person examining contents: 6/19/09 MRW

Temp should be above freezing to 6°C

Comments:

Chain of Custody Present:	☒Yes	☐No	☐N/A 1.
Chain of Custody Filled Out:	☒Yes	☐No	☐N/A 2.
Chain of Custody Relinquished:	☒Yes	☐No	☐N/A 3.
Sampler Name & Signature on COC:	☒Yes	☐No	☐N/A 4.
Samples Arrived within Hold Time:	☒Yes	☐No	☐N/A 5.
Short Hold Time Analysis (<72hr):	☐Yes	☒No	☐N/A 6.
Rush Turn Around Time Requested:	☐Yes	☒No	☐N/A 7.
Sufficient Volume:	☒Yes	☐No	☐N/A 8.
Correct Containers Used:	☒Yes	☐No	☐N/A 9.
-Pace Containers Used:	☒Yes	☐No	☐N/A
Containers Intact:	☒Yes	☐No	☐N/A 10.
Filtered volume received for Dissolved tests	☐Yes	☐No	☒N/A 11.
Sample Labels match COC:	☒Yes	☐No	☐N/A 12.
-Includes date/time/ID/Analysis Matrix: S+W			T.B. is H2O, rest soils
All containers needing preservation have been checked.	☐Yes	☐No	☒N/A 13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☐Yes	☐No	☒N/A
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☐Yes	☐No	Initial when completed / Lot # of added preservative
Samples checked for dechlorination:	☐Yes	☐No	☒N/A 14.
Headspace in VOA Vials (>6mm):	☐Yes	☐No	☒N/A 15.
Trip Blank Present:	☒Yes	☐No	☐N/A 16.
Trip Blank Custody Seals Present	☐Yes	☒No	☐N/A
Pace Trip Blank Lot # (if purchased):			

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____ **Date:** 6/19/09

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

Samples Collected 06/22/09

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July 02, 2009

Mark Bailey
RMT Greenville
30 Patewood Drive
Suite100, Patewood Plaza One
Greenville, SC 296153535

RE: Project: 71238.40 SANGAMO PLANT SITE
Pace Project No.: 4018960

Dear Mark Bailey:
Enclosed are the analytical results for sample(s) received by the laboratory on June 23, 2009. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Kang Khang

kang.khang@pacelabs.com
Project Manager

Enclosures

cc: Lisa Clark, RMT - GREENVILLE
Terry Hertz, RMT GREENVILLE

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CoC - SIGNED; TEMP - OK; HT - OK; NARR - OK

MBLKS - CLEAN
TBLK - 09205 — 30.0 J ug/Kg METHYLENE CHLORIDE
SURR - RECS OK
LCS/LCSD - MED LEVEL SOIL - RECS + RPDs OK
- LOW LEVEL SOIL - RECS + RPDS OK EXCEPT FOR 1,1,2,2-TETRACHLOROETHANE WHICH HAD 1% LOW REC ON LCS (LCSD REC OK).

July 02, 2009

Mark Bailey
RMT Greenville
30 Patewood Drive
Suite100, Patewood Plaza One
Greenville, SC 296153535

METHYLENE CHLORIDE IN CP-H-02 (33.5) IS ASSIGNED A "U" FLAG BECAUSE THIS ANALYTE WAS DETECTED IN THE TRIP BLANK.

RE: Project: 71238.40 SANGAMO PLANT SITE
Pace Project No.: 4018960 LAB DUP - RPD OK

Dear Mark Bailey:
Enclosed are the analytical results for sample(s) received by the laboratory on June 23, 2009. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Kang Khang

Kang Khang

kang.khang@pacelabs.com
Project Manager

TLH

SANG - Delete 4018715 864

Rename
Temp Chem - MDL → EQL
- Delete PQL

Enclosures

cc: Lisa Clark, RMT - GREENVILLE
Terry Hertz, RMT GREENVILLE

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CERTIFICATIONS

Project: 71238.40 SANGAMO PLANT SITE
Pace Project No.: 4018960

Green Bay Certification IDs

Wisconsin DATCP Certification #: 105-444
Wisconsin DATCP Certification #: 105-444
Wisconsin Certification #: 405132750
Wisconsin Certification #: 405132750
South Carolina Certification #: 83006001
South Carolina Certification #: 83006001
North Dakota Certification #: R-200
North Dakota Certification #: R-150
North Carolina Certification #: 503
North Carolina Certification #: 503
New York Certification #: 11887
New York Certification #: 11888
Minnesota Certification #: 055-999-334
Minnesota Certification #: 055-999-334
Louisiana Certification #: 04169
Louisiana Certification #: 04168
Kentucky Certification #: 83
Kentucky Certification #: 82
Illinois Certification #: 200051
Illinois Certification #: 200050
Florida/NELAP Certification #: E87951
Florida/NELAP Certification #: E87948

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SAMPLE SUMMARY

Project: 71238.40 SANGAMO PLANT SITE
Pace Project No.: 4018960

Lab ID	Sample ID	Matrix	Date Collected	Date Received
4018960001	**CP-H-02 (33.5FT)**	Solid	06/22/09 14:30	06/23/09 10:00
4018960002	**TBLK-09205**	Solid	06/22/09 00:00	06/23/09 10:00

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SAMPLE ANALYTE COUNT

Project: 71238.40 SANGAMO PLANT SITE
Pace Project No.: 4018960

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
4018960001	**CP-H-02 (33.5FT)**	ASTM D2974-87	MRN	1	PASI-G
		EPA 8260	JJB	37	PASI-G
4018960002	**TBLK-09205**	EPA 8260	JJB	37	PASI-G

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PROJECT NARRATIVE

Project: 71238.40 SANGAMO PLANT SITE
Pace Project No.: 4018960

Method: EPA 8260
Description: 8260 MSV 5035 Low Level
Client: RMT - GREENVILLE
Date: July 02, 2009

General Information:
1 sample was analyzed for EPA 8260. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 5035A with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

QC Batch: MSV/4812

L0: Analyte recovery in the laboratory control sample (LCS) was outside QC limits.
- LCS (Lab ID: 173682)
  - 1,1,2,2-Tetrachloroethane

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: MSV/4812

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: 71238.40 SANGAMO PLANT SITE
Pace Project No.: 4018960

Method: EPA 8260
Description: 8260 MSV Med Level Full List
Client: RMT - GREENVILLE
Date: July 02, 2009

General Information:
1 sample was analyzed for EPA 8260. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 5035/5030B with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: 71238.40 SANGAMO PLANT SITE
Pace Project No.: 4018960

Method: **ASTM D2974-87**
Description: Percent Moisture
Client: RMT - GREENVILLE
Date: July 02, 2009

General Information:
1 sample was analyzed for ASTM D2974-87. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 71238.40 SANGAMO PLANT SITE
Pace Project No.: 4018960

Sample: CP-H-02 (33.5FT) **Lab ID: 4018960001** Collected: 06/22/09 14:30 Received: 06/23/09 10:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035 Low Level	Analytical Method: EPA 8260 Preparation Method: EPA 5035A								
Acetone	**<6.6**	ug/kg	19.9	6.6	1	06/23/09 13:03	06/23/09 12:34	67-64-1	
Benzene	**<0.61**	ug/kg	5.0	0.61	1	06/23/09 13:03	06/23/09 12:34	71-43-2	
Bromodichloromethane	**<0.35**	ug/kg	5.0	0.35	1	06/23/09 13:03	06/23/09 12:34	75-27-4	
Bromoform	**<0.98**	ug/kg	5.0	0.98	1	06/23/09 13:03	06/23/09 12:34	75-25-2	
Bromomethane	**<1.1**	ug/kg	5.0	1.1	1	06/23/09 13:03	06/23/09 12:34	74-83-9	
2-Butanone (MEK)	**<1.8**	ug/kg	5.0	1.8	1	06/23/09 13:03	06/23/09 12:34	78-93-3	
Carbon disulfide	**<1.1**	ug/kg	5.0	1.1	1	06/23/09 13:03	06/23/09 12:34	75-15-0	
Carbon tetrachloride	**<0.79**	ug/kg	5.0	0.79	1	06/23/09 13:03	06/23/09 12:34	56-23-5	
Chlorobenzene	**<0.20**	ug/kg	5.0	0.20	1	06/23/09 13:03	06/23/09 12:34	108-90-7	
Chloroethane	**<1.4**	ug/kg	5.0	1.4	1	06/23/09 13:03	06/23/09 12:34	75-00-3	
Chloroform	**<0.54**	ug/kg	5.0	0.54	1	06/23/09 13:03	06/23/09 12:34	67-66-3	
Chloromethane	**<0.84**	ug/kg	5.0	0.84	1	06/23/09 13:03	06/23/09 12:34	74-87-3	
Dibromochloromethane	**<0.70**	ug/kg	5.0	0.70	1	06/23/09 13:03	06/23/09 12:34	124-48-1	
1,1-Dichloroethane	**<0.68**	ug/kg	5.0	0.68	1	06/23/09 13:03	06/23/09 12:34	75-34-3	
1,2-Dichloroethane	**<0.57**	ug/kg	5.0	0.57	1	06/23/09 13:03	06/23/09 12:34	107-06-2	
1,1-Dichloroethene	**<0.52**	ug/kg	5.0	0.52	1	06/23/09 13:03	06/23/09 12:34	75-35-4	
cis-1,2-Dichloroethene	**<0.99**	ug/kg	5.0	0.99	1	06/23/09 13:03	06/23/09 12:34	156-59-2	
trans-1,2-Dichloroethene	**<0.75**	ug/kg	5.0	0.75	1	06/23/09 13:03	06/23/09 12:34	156-60-5	
1,2-Dichloropropane	**<0.63**	ug/kg	5.0	0.63	1	06/23/09 13:03	06/23/09 12:34	78-87-5	
cis-1,3-Dichloropropene	**<0.54**	ug/kg	5.0	0.54	1	06/23/09 13:03	06/23/09 12:34	10061-01-5	
trans-1,3-Dichloropropene	**<0.52**	ug/kg	5.0	0.52	1	06/23/09 13:03	06/23/09 12:34	10061-02-6	
Ethylbenzene	**<0.26**	ug/kg	5.0	0.26	1	06/23/09 13:03	06/23/09 12:34	100-41-4	
2-Hexanone	**<1.3**	ug/kg	5.0	1.3	1	06/23/09 13:03	06/23/09 12:34	591-78-6	
Methylene Chloride	**1.4J**	ug/kg	5.0	0.40	1	06/23/09 13:03	06/23/09 12:34	75-09-2	Z3
4-Methyl-2-pentanone (MIBK)	**<0.84**	ug/kg	5.0	0.84	1	06/23/09 13:03	06/23/09 12:34	108-10-1	
Styrene	**<0.12**	ug/kg	5.0	0.12	1	06/23/09 13:03	06/23/09 12:34	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.74**	ug/kg	5.0	0.74	1	06/23/09 13:03	06/23/09 12:34	79-34-5	L2
Tetrachloroethene	**19.9**	ug/kg	5.0	0.91	1	06/23/09 13:03	06/23/09 12:34	127-18-4	
Toluene	**<0.84**	ug/kg	5.0	0.84	1	06/23/09 13:03	06/23/09 12:34	108-88-3	
1,1,1-Trichloroethane	**<0.77**	ug/kg	5.0	0.77	1	06/23/09 13:03	06/23/09 12:34	71-55-6	
1,1,2-Trichloroethane	**<0.71**	ug/kg	5.0	0.71	1	06/23/09 13:03	06/23/09 12:34	79-00-5	
Trichloroethene	**20.4**	ug/kg	5.0	0.57	1	06/23/09 13:03	06/23/09 12:34	79-01-6	
Vinyl chloride	**<0.86**	ug/kg	5.0	0.86	1	06/23/09 13:03	06/23/09 12:34	75-01-4	
Xylene (Total)	**<1.6**	ug/kg	14.9	1.6	1	06/23/09 13:03	06/23/09 12:34	1330-20-7	
Dibromofluoromethane (S)	80	%	63-130		1	06/23/09 13:03	06/23/09 12:34	1868-53-7	
Toluene-d8 (S)	98	%	70-130		1	06/23/09 13:03	06/23/09 12:34	2037-26-5	
4-Bromofluorobenzene (S)	93	%	70-130		1	06/23/09 13:03	06/23/09 12:34	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**3.5**	%	0.10	0.10	1		06/30/09 08:07		

REPORT OF LABORATORY ANALYSIS

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1241 Bellevue Street - Suite 9
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ANALYTICAL RESULTS

Project: 71238.40 SANGAMO PLANT SITE
Pace Project No.: 4018960

Sample: TBLK-09205 **Lab ID: 4018960002** Collected: 06/22/09 00:00 Received: 06/23/09 10:00 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Full List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
Acetone	**<126**	ug/kg	250	126	1	06/23/09 13:18	07/02/09 10:12	67-64-1	
Benzene	**<11.2**	ug/kg	25.0	11.2	1	06/23/09 13:18	07/02/09 10:12	71-43-2	
Bromodichloromethane	**<9.3**	ug/kg	50.0	9.3	1	06/23/09 13:18	07/02/09 10:12	75-27-4	
Bromoform	**<25.9**	ug/kg	50.0	25.9	1	06/23/09 13:18	07/02/09 10:12	75-25-2	
Bromomethane	**<22.5**	ug/kg	50.0	22.5	1	06/23/09 13:18	07/02/09 10:12	74-83-9	
2-Butanone (MEK)	**<82.9**	ug/kg	250	82.9	1	06/23/09 13:18	07/02/09 10:12	78-93-3	
Carbon disulfide	**<7.2**	ug/kg	50.0	7.2	1	06/23/09 13:18	07/02/09 10:12	75-15-0	
Carbon tetrachloride	**<10.1**	ug/kg	50.0	10.1	1	06/23/09 13:18	07/02/09 10:12	56-23-5	
Chlorobenzene	**<8.2**	ug/kg	50.0	8.2	1	06/23/09 13:18	07/02/09 10:12	108-90-7	
Chloroethane	**<22.3**	ug/kg	50.0	22.3	1	06/23/09 13:18	07/02/09 10:12	75-00-3	
Chloroform	**<7.2**	ug/kg	250	7.2	1	06/23/09 13:18	07/02/09 10:12	67-66-3	
Chloromethane	**<10.1**	ug/kg	50.0	10.1	1	06/23/09 13:18	07/02/09 10:12	74-87-3	
Dibromochloromethane	**<10.4**	ug/kg	50.0	10.4	1	06/23/09 13:18	07/02/09 10:12	124-48-1	
1,1-Dichloroethane	**<6.6**	ug/kg	50.0	6.6	1	06/23/09 13:18	07/02/09 10:12	75-34-3	
1,2-Dichloroethane	**<13.2**	ug/kg	25.0	13.2	1	06/23/09 13:18	07/02/09 10:12	107-06-2	
1,1-Dichloroethene	**<15.4**	ug/kg	50.0	15.4	1	06/23/09 13:18	07/02/09 10:12	75-35-4	
cis-1,2-Dichloroethene	**<8.3**	ug/kg	50.0	8.3	1	06/23/09 13:18	07/02/09 10:12	156-59-2	
trans-1,2-Dichloroethene	**<18.7**	ug/kg	50.0	18.7	1	06/23/09 13:18	07/02/09 10:12	156-60-5	
1,2-Dichloropropane	**<8.5**	ug/kg	50.0	8.5	1	06/23/09 13:18	07/02/09 10:12	78-87-5	
cis-1,3-Dichloropropene	**<9.6**	ug/kg	50.0	9.6	1	06/23/09 13:18	07/02/09 10:12	10061-01-5	
trans-1,3-Dichloropropene	**<10.5**	ug/kg	50.0	10.5	1	06/23/09 13:18	07/02/09 10:12	10061-02-6	
Ethylbenzene	**<10.2**	ug/kg	25.0	10.2	1	06/23/09 13:18	07/02/09 10:12	100-41-4	
2-Hexanone	**<49.5**	ug/kg	250	49.5	1	06/23/09 13:18	07/02/09 10:12	591-78-6	
Methylene Chloride	**30.0J**	ug/kg	50.0	8.2	1	06/23/09 13:18	07/02/09 10:12	75-09-2	Z3
4-Methyl-2-pentanone (MIBK)	**<15.8**	ug/kg	50.0	15.8	1	06/23/09 13:18	07/02/09 10:12	108-10-1	
Styrene	**<12.0**	ug/kg	50.0	12.0	1	06/23/09 13:18	07/02/09 10:12	100-42-5	
1,1,2,2-Tetrachloroethane	**<12.5**	ug/kg	50.0	12.5	1	06/23/09 13:18	07/02/09 10:12	79-34-5	
Tetrachloroethene	**<10.8**	ug/kg	50.0	10.8	1	06/23/09 13:18	07/02/09 10:12	127-18-4	
Toluene	**<7.7**	ug/kg	50.0	7.7	1	06/23/09 13:18	07/02/09 10:12	108-88-3	
1,1,1-Trichloroethane	**<9.4**	ug/kg	50.0	9.4	1	06/23/09 13:18	07/02/09 10:12	71-55-6	
1,1,2-Trichloroethane	**<20.1**	ug/kg	50.0	20.1	1	06/23/09 13:18	07/02/09 10:12	79-00-5	
Trichloroethene	**<9.7**	ug/kg	50.0	9.7	1	06/23/09 13:18	07/02/09 10:12	79-01-6	
Vinyl chloride	**<10.0**	ug/kg	50.0	10.0	1	06/23/09 13:18	07/02/09 10:12	75-01-4	
Xylene (Total)	**<24.7**	ug/kg	75.0	24.7	1	06/23/09 13:18	07/02/09 10:12	1330-20-7	
Dibromofluoromethane (S)	120	%	70-150		1	06/23/09 13:18	07/02/09 10:12	1868-53-7	
Toluene-d8 (S)	115	%	70-155		1	06/23/09 13:18	07/02/09 10:12	2037-26-5	
4-Bromofluorobenzene (S)	107	%	70-147		1	06/23/09 13:18	07/02/09 10:12	460-00-4	

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QUALITY CONTROL DATA

Project: 71238.40 SANGAMO PLANT SITE
Pace Project No.: 4018960

QC Batch: MSV/4808
QC Batch Method: EPA 5035/5030B
Analysis Method: EPA 8260
Analysis Description: 8260 MSV Med Level Full List
Associated Lab Samples: 4018960002

METHOD BLANK: 173657
Matrix: Solid
Associated Lab Samples: 4018960002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/kg	<9.4	50.0	06/23/09 12:35	
1,1,2,2-Tetrachloroethane	ug/kg	<12.5	50.0	06/23/09 12:35	
1,1,2-Trichloroethane	ug/kg	<20.1	50.0	06/23/09 12:35	
1,1-Dichloroethane	ug/kg	<6.6	50.0	06/23/09 12:35	
1,1-Dichloroethene	ug/kg	<15.4	50.0	06/23/09 12:35	
1,2-Dichloroethane	ug/kg	<13.2	25.0	06/23/09 12:35	
1,2-Dichloropropane	ug/kg	<8.5	50.0	06/23/09 12:35	
2-Butanone (MEK)	ug/kg	<82.9	250	06/23/09 12:35	
2-Hexanone	ug/kg	<49.5	250	06/23/09 12:35	
4-Methyl-2-pentanone (MIBK)	ug/kg	<15.8	50.0	06/23/09 12:35	
Acetone	ug/kg	<126	250	06/23/09 12:35	
Benzene	ug/kg	<11.2	25.0	06/23/09 12:35	
Bromodichloromethane	ug/kg	<9.3	50.0	06/23/09 12:35	
Bromoform	ug/kg	<25.9	50.0	06/23/09 12:35	
Bromomethane	ug/kg	<22.5	50.0	06/23/09 12:35	
Carbon disulfide	ug/kg	<7.2	50.0	06/23/09 12:35	
Carbon tetrachloride	ug/kg	<10.1	50.0	06/23/09 12:35	
Chlorobenzene	ug/kg	<8.2	50.0	06/23/09 12:35	
Chloroethane	ug/kg	<22.3	50.0	06/23/09 12:35	
Chloroform	ug/kg	<7.2	250	06/23/09 12:35	
Chloromethane	ug/kg	<10.1	50.0	06/23/09 12:35	
cis-1,2-Dichloroethene	ug/kg	<8.3	50.0	06/23/09 12:35	
cis-1,3-Dichloropropene	ug/kg	<9.6	50.0	06/23/09 12:35	
Dibromochloromethane	ug/kg	<10.4	50.0	06/23/09 12:35	
Ethylbenzene	ug/kg	<10.2	25.0	06/23/09 12:35	
Methylene Chloride	ug/kg	<8.2	50.0	06/23/09 12:35	
Styrene	ug/kg	<12.0	50.0	06/23/09 12:35	
Tetrachloroethene	ug/kg	<10.8	50.0	06/23/09 12:35	
Toluene	ug/kg	<7.7	50.0	06/23/09 12:35	
trans-1,2-Dichloroethene	ug/kg	<18.7	50.0	06/23/09 12:35	
trans-1,3-Dichloropropene	ug/kg	<10.5	50.0	06/23/09 12:35	
Trichloroethene	ug/kg	<9.7	50.0	06/23/09 12:35	
Vinyl chloride	ug/kg	<10.0	50.0	06/23/09 12:35	
Xylene (Total)	ug/kg	<24.7	75.0	06/23/09 12:35	
4-Bromofluorobenzene (S)	%	107	70-147	06/23/09 12:35	
Dibromofluoromethane (S)	%	117	70-150	06/23/09 12:35	
Toluene-d8 (S)	%	119	70-155	06/23/09 12:35	

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QUALITY CONTROL DATA

Project: 71238.40 SANGAMO PLANT SITE
Pace Project No.: 4018960

LABORATORY CONTROL SAMPLE & LCSD: 173658 173659

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/kg	2500	2960	3060	118	122	68-140	3	20	
1,1,2,2-Tetrachloroethane	ug/kg	2500	2710	2910	108	117	67-131	7	20	
1,1,2-Trichloroethane	ug/kg	2500	2660	2780	106	111	70-130	4	20	
1,1-Dichloroethane	ug/kg	2500	2290	2400	92	96	70-130	5	20	
1,1-Dichloroethene	ug/kg	2500	2440	2520	97	101	70-133	4	20	
1,2-Dichloroethane	ug/kg	2500	2610	2640	104	105	70-132	1	20	
1,2-Dichloropropane	ug/kg	2500	2540	2700	102	108	70-130	6	20	
2-Butanone (MEK)	ug/kg	2500	3230	3420	129	137	50-150	6	20	
2-Hexanone	ug/kg	2500	2560	2630	102	105	50-150	3	20	
4-Methyl-2-pentanone (MIBK)	ug/kg	2500	2890	2710	116	109	50-150	6	21	
Acetone	ug/kg	2500	2240	2440	90	98	23-214	9	21	
Benzene	ug/kg	2500	2710	2770	108	111	70-130	2	20	
Bromodichloromethane	ug/kg	2500	2370	2460	95	99	70-130	4	20	
Bromoform	ug/kg	2500	2270	2390	91	96	70-130	5	20	
Bromomethane	ug/kg	2500	2090	2190	84	88	65-153	5	20	
Carbon disulfide	ug/kg	2500	2240	2330	90	93	70-130	4	20	
Carbon tetrachloride	ug/kg	2500	2810	2880	112	115	70-142	2	20	
Chlorobenzene	ug/kg	2500	2550	2670	102	107	70-130	5	20	
Chloroethane	ug/kg	2500	2180	2270	87	91	70-178	4	20	
Chloroform	ug/kg	2500	2610	2700	105	108	70-130	3	20	
Chloromethane	ug/kg	2500	2010	2130	80	85	53-143	6	20	
cis-1,2-Dichloroethene	ug/kg	2500	2690	2740	108	110	70-130	2	20	
cis-1,3-Dichloropropene	ug/kg	2500	2420	2530	97	101	70-130	4	20	
Dibromochloromethane	ug/kg	2500	2370	2510	95	101	70-130	6	20	
Ethylbenzene	ug/kg	2500	2770	2860	111	115	70-130	3	20	
Methylene Chloride	ug/kg	2500	2320	2420	93	97	70-134	4	20	
Styrene	ug/kg	2500	2100	2200	84	88	70-130	5	20	
Tetrachloroethene	ug/kg	2500	2870	2990	115	119	70-130	4	20	
Toluene	ug/kg	2500	2860	2970	114	119	70-130	4	20	
trans-1,2-Dichloroethene	ug/kg	2500	2380	2460	95	98	67-130	3	20	
trans-1,3-Dichloropropene	ug/kg	2500	2510	2630	100	105	70-130	5	20	
Trichloroethene	ug/kg	2500	2730	2870	109	115	70-130	5	20	
Vinyl chloride	ug/kg	2500	2280	2360	91	94	70-130	4	20	
Xylene (Total)	ug/kg	7500	7670	7950	102	106	70-130	4	20	
4-Bromofluorobenzene (S)	%				112	113	70-147			
Dibromofluoromethane (S)	%				115	117	70-150			
Toluene-d8 (S)	%				115	119	70-155			

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QUALITY CONTROL DATA

Project: 71238.40 SANGAMO PLANT SITE
Pace Project No.: 4018960

QC Batch: MSV/4812
QC Batch Method: EPA 8260
Analysis Method: EPA 8260
Analysis Description: 8260 MSV 5035 Low Level
Associated Lab Samples: 4018960001

METHOD BLANK: 173681
Matrix: Solid
Associated Lab Samples: 4018960001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/kg	<0.77	5.0	06/23/09 07:52	
1,1,2,2-Tetrachloroethane	ug/kg	<0.74	5.0	06/23/09 07:52	
1,1,2-Trichloroethane	ug/kg	<0.71	5.0	06/23/09 07:52	
1,1-Dichloroethane	ug/kg	<0.69	5.0	06/23/09 07:52	
1,1-Dichloroethene	ug/kg	<0.52	5.0	06/23/09 07:52	
1,2-Dichloroethane	ug/kg	<0.57	5.0	06/23/09 07:52	
1,2-Dichloropropane	ug/kg	<0.64	5.0	06/23/09 07:52	
2-Butanone (MEK)	ug/kg	<1.8	5.0	06/23/09 07:52	
2-Hexanone	ug/kg	<1.3	5.0	06/23/09 07:52	
4-Methyl-2-pentanone (MIBK)	ug/kg	<0.85	5.0	06/23/09 07:52	
Acetone	ug/kg	<6.7	20.0	06/23/09 07:52	
Benzene	ug/kg	<0.61	5.0	06/23/09 07:52	
Bromodichloromethane	ug/kg	<0.35	5.0	06/23/09 07:52	
Bromoform	ug/kg	<0.99	5.0	06/23/09 07:52	
Bromomethane	ug/kg	<1.1	5.0	06/23/09 07:52	
Carbon disulfide	ug/kg	<1.1	5.0	06/23/09 07:52	
Carbon tetrachloride	ug/kg	<0.80	5.0	06/23/09 07:52	
Chlorobenzene	ug/kg	<0.21	5.0	06/23/09 07:52	
Chloroethane	ug/kg	<1.5	5.0	06/23/09 07:52	
Chloroform	ug/kg	<0.54	5.0	06/23/09 07:52	
Chloromethane	ug/kg	<0.85	5.0	06/23/09 07:52	
cis-1,2-Dichloroethene	ug/kg	<1.0	5.0	06/23/09 07:52	
cis-1,3-Dichloropropene	ug/kg	<0.54	5.0	06/23/09 07:52	
Dibromochloromethane	ug/kg	<0.71	5.0	06/23/09 07:52	
Ethylbenzene	ug/kg	<0.26	5.0	06/23/09 07:52	
Methylene Chloride	ug/kg	<0.40	5.0	06/23/09 07:52	
Styrene	ug/kg	<0.12	5.0	06/23/09 07:52	
Tetrachloroethene	ug/kg	<0.92	5.0	06/23/09 07:52	
Toluene	ug/kg	<0.85	5.0	06/23/09 07:52	
trans-1,2-Dichloroethene	ug/kg	<0.75	5.0	06/23/09 07:52	
trans-1,3-Dichloropropene	ug/kg	<0.53	5.0	06/23/09 07:52	
Trichloroethene	ug/kg	<0.57	5.0	06/23/09 07:52	
Vinyl chloride	ug/kg	<0.87	5.0	06/23/09 07:52	
4-Bromofluorobenzene (S)	%	91	70-130	06/23/09 07:52	
Dibromofluoromethane (S)	%	86	63-130	06/23/09 07:52	
Toluene-d8 (S)	%	98	70-130	06/23/09 07:52	

LABORATORY CONTROL SAMPLE & LCSD: 173682 173683

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/kg	50	48.8	49.7	98	99	70-130	2	20	

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QUALITY CONTROL DATA

Project: 71238.40 SANGAMO PLANT SITE
Pace Project No.: 4018960

LABORATORY CONTROL SAMPLE & LCSD: 173682 173683

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,1,2,2-Tetrachloroethane	ug/kg	50	34.3	35.1	69	70	70-130	2	20	L0
1,1,2-Trichloroethane	ug/kg	50	45.4	45.6	91	91	70-130	.5	20	
1,1-Dichloroethane	ug/kg	50	41.6	41.8	83	84	67-137	.3	20	
1,1-Dichloroethene	ug/kg	50	53.7	54.5	107	109	70-130	2	20	
1,2-Dichloroethane	ug/kg	50	43.6	43.9	87	88	63-134	.6	20	
1,2-Dichloropropane	ug/kg	50	42.9	43.3	86	87	70-130	.9	20	
2-Butanone (MEK)	ug/kg	50	26.8	28.0	54	56	35-150	4	42	
2-Hexanone	ug/kg	50	42.3	39.3	85	79	42-157	7	20	
4-Methyl-2-pentanone (MIBK)	ug/kg	50	38.4	38.2	77	76	50-150	.7	20	
Acetone	ug/kg	50	25.1	19.5J	50	39	10-197		85	
Benzene	ug/kg	50	44.0	44.2	88	88	70-130	.5	20	
Bromodichloromethane	ug/kg	50	47.4	47.3	95	95	70-130	.2	20	
Bromoform	ug/kg	50	53.5	54.1	107	108	64-137	1	20	
Bromomethane	ug/kg	50	55.0	59.9	110	120	66-136	9	20	
Carbon disulfide	ug/kg	50	51.3	51.3	103	103	54-154	.01	20	
Carbon tetrachloride	ug/kg	50	51.5	51.4	103	103	70-130	.1	20	
Chlorobenzene	ug/kg	50	52.5	54.0	105	108	70-130	3	20	
Chloroethane	ug/kg	50	51.4	51.7	103	103	59-140	.5	20	
Chloroform	ug/kg	50	43.8	44.5	88	89	69-130	2	20	
Chloromethane	ug/kg	50	48.8	50.0	98	100	27-141	2	20	
cis-1,2-Dichloroethene	ug/kg	50	44.0	46.2	88	92	70-130	5	20	
cis-1,3-Dichloropropene	ug/kg	50	45.8	46.0	92	92	70-130	.5	20	
Dibromochloromethane	ug/kg	50	48.6	49.4	97	99	70-130	2	20	
Ethylbenzene	ug/kg	50	50.4	50.5	101	101	70-130	.2	20	
Methylene Chloride	ug/kg	50	41.3	42.8	83	86	70-130	4	20	
Styrene	ug/kg	50	49.2	49.7	98	99	70-130	1	20	
Tetrachloroethene	ug/kg	50	59.3	59.8	119	120	67-139	1	20	
Toluene	ug/kg	50	51.6	51.6	103	103	70-130	.1	20	
trans-1,2-Dichloroethene	ug/kg	50	45.7	47.3	91	95	70-130	3	20	
trans-1,3-Dichloropropene	ug/kg	50	44.2	45.5	88	91	70-130	3	20	
Trichloroethene	ug/kg	50	53.4	53.7	107	107	70-130	.6	20	
Vinyl chloride	ug/kg	50	52.5	53.2	105	106	65-142	1	20	
4-Bromofluorobenzene (S)	%				91	90	70-130			
Dibromofluoromethane (S)	%				84	83	63-130			
Toluene-d8 (S)	%				98	99	70-130			

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QUALITY CONTROL DATA

Project: 71238.40 SANGAMO PLANT SITE
Pace Project No.: 4018960

QC Batch: PMST/2635
QC Batch Method: ASTM D2974-87
Associated Lab Samples: 4018960001

Analysis Method: ASTM D2974-87
Analysis Description: Dry Weight/Percent Moisture

SAMPLE DUPLICATE: 176401

Parameter	Units	4018926009 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	32.6	30.8	6	10	

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QUALIFIERS

Project: 71238.40 SANGAMO PLANT SITE
Pace Project No.: 4018960

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

Pace Analytical is NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

U - Indicates the compound was analyzed for, but not detected.

LABORATORIES

PASI-G Pace Analytical Services - Green Bay

BATCH QUALIFIERS

Batch: MSV/4812

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

ANALYTE QUALIFIERS

L0 Analyte recovery in the laboratory control sample (LCS) was outside QC limits.

L2 Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results may be biased low.

Z3 Methylene chloride is a common laboratory contaminant. Results for this analyte should be considered estimated unless the amount found in the sample is 3 to 5 times higher than that found in the method blank.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 71238.40 SANGAMO PLANT SITE
Pace Project No.: 4018960

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
4018960001	**CP-H-02 (33.5FT)**	EPA 5035A	MSV/4804	EPA 8260	MSV/4812
4018960002	**TBLK-09205**	EPA 5035/5030B	MSV/4808	EPA 8260	MSV/4809
4018960001	**CP-H-02 (33.5FT)**	ASTM D2974-87	PMST/2635		

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UPPER MIDWEST REGION
MN: 612-607-1700 WI: 920-469-2436

Page 1 of

4498960

CHAIN OF CUSTODY

*Preservation Codes
A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH
H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

(Please Print Clearly)	
Company Name:	RMT, Inc
Branch/Location:	
Project Contact:	Terry Hertz
Phone:	864-281-0030
Project Number:	71238.40
Project Name:	Sangamo Plant Site
Project State:	SC
Sampled By (Print):	Lisa Clark
Sampled By (Sign):	Lisa Clark
PO #:	Regulatory Program:

Quote #:	
Mail To Contact:	
Mail To Company:	
Mail To Address:	
Invoice To Contact:	
Invoice To Company:	
Invoice To Address:	
Invoice To Phone:	

Data Package Options (billable)
☐ EPA Level III
☐ EPA Level IV

MS/MSD
☐ On your sample (billable)
☐ NOT needed on your sample

Matrix Codes
A = Air, B = Biota, C = Charcoal, O = Oil, S = Soil, SI = Sludge, W = Water, DW = Drinking Water, GW = Ground Water, SW = Surface Water, WW = Waste Water, WP = Wipe

PACE LAB #	CLIENT FIELD ID	COLLECTION DATE	COLLECTION TIME	MATRIX	FILTERED? (YES/NO)	PRESERVATION (CODE)*	Analysis Requested	CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
					Y/N	Pick Letter				
001	CP-H-02 (33.5 ft)	6/22/09	1430	S	N	F	VOC		1-4oz; 3-40ml F,E,F	
002	TBLK-092205				N	A	Moisture		1-40ml F	
					N	E	VOC			

Rush Turnaround Time Requested - Prelims (Rush TAT subject to approval/surcharge) Date Needed:	Relinquished By: Lisa M. Clark Date/Time: 6/22/09 18:00	Received By: FedEx 8682 8759 1129 Date/Time: 6/22/09 18:00	PACE Project No. 4498960
Transmit Prelim Rush Results by (complete what you want):	Relinquished By: FedEx 6/23/09 10:00	Received By: L. Williams 6/23/09 10:00	Receipt Temp = 1 °C °C
Email #1:	Relinquished By: Date/Time:	Received By: Date/Time:	Sample Receipt pH OK / Adjusted
Email #2:	Relinquished By: Date/Time:	Received By: Date/Time:	Cooler Custody Seal Present / Not Present Intact / Not Intact
Telephone:	Relinquished By: Date/Time:	Received By: Date/Time:	
Fax:			

Samples on HOLD are subject to special pricing and release of liability

Version 6.0 06/14/06

C019e(27Jun2006)

ORIGINAL

Sample Condition Upon Receipt

Pace Analytical

Client Name: RMT Project # 4018960

Courier: ☒ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace Other _____

Optional: Proj. Due Date: Proj. Name:

Tracking #: _____

Custody Seal on Cooler/Box Present: ☐ yes ☒ no Seals intact: ☐ yes ☐ no

Packing Material: ☐ Bubble Wrap ☒ Bubble Bags ☐ None ☒ Other foam

Thermometer Used JB Type of Ice: (Wet) Blue None ☐ Samples on ice, cooling process has begun

Cooler Temperature 1°C Biological Tissue is Frozen: Yes No

Date and Initials of person examining contents: 6/23/09

Temp should be above freezing to 6°C Comments:

Chain of Custody Present:	☒Yes	☐No	☐N/A	1.
Chain of Custody Filled Out:	☒Yes	☐No	☐N/A	2.
Chain of Custody Relinquished:	☒Yes	☐No	☐N/A	3.
Sampler Name & Signature on COC:	☒Yes	☐No	☐N/A	4.
Samples Arrived within Hold Time:	☒Yes	☐No	☐N/A	5.
Short Hold Time Analysis (<72hr):	☒Yes	☐No	☐N/A	6.
Rush Turn Around Time Requested:	☐Yes	☒No	☐N/A	7.
Sufficient Volume:	☒Yes	☐No	☐N/A	8.
Correct Containers Used:	☒Yes	☐No	☐N/A	9.
-Pace Containers Used:	☒Yes	☐No	☐N/A	
Containers Intact:	☒Yes	☐No	☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes	☐No	☒N/A	11.
Sample Labels match COC:	☒Yes	☐No	☐N/A	12.
-Includes date/time/ID/Analysis Matrix: S				
All containers needing preservation have been checked.	☐Yes	☐No	☒N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☐Yes	☐No	☒N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☐Yes	☐No		Initial when completed / Lot # of added preservative
Samples checked for dechlorination:	☐Yes	☐No	☒N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes	☐No	☒N/A	15.
Trip Blank Present:	☒Yes	☐No	☐N/A	16.
Trip Blank Custody Seals Present	☒Yes	☐No	☐N/A	
Pace Trip Blank Lot # (if purchased): _____				

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____ Date: 6/23/09

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

Samples Collected 06/23/09

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July 02, 2009

Mark Bailey
RMT Greenville
30 Patewood Drive
Suite100, Patewood Plaza One
Greenville, SC 296153535

RE: Project: 71238.40 SANGAMO PLANT SITE
Pace Project No.: 4019039

Dear Mark Bailey:
Enclosed are the analytical results for sample(s) received by the laboratory on June 24, 2009. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Kang Khang

kang.khang@pacelabs.com
Project Manager

Enclosures

cc: Lisa Clark, RMT - GREENVILLE
Terry Hertz, RMT GREENVILLE

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CoC-SIGNED; TEMP-OK; HT-OK; NARR-OK.
SURR-RECS OK
MBLKS - CLEAN
TBLK-09206 — METHYLENE CHLORIDE AT 65.2 ug/Kg.

METHYLENE CHLORIDE IN CP-D-04(16.5) IS ASSIGNED A "U" FLAG BECAUSE OF SAME ANALYTE IN TRIP BLANK.

July 02, 2009

Mark Bailey
RMT Greenville
30 Patewood Drive
Suite100, Patewood Plaza One
Greenville, SC 296153535

LCS/LCSD — MED LEVEL SOIL - RECS + RPDS OK EXCEPT FOR 1,1,2,2-TETRACHLOROETHANE WHICH HAD RPD GREATER THAN QC LIMIT. No DETECTION OF 1,1,2,2-TCA IN ASSOCIATED SAMPLES, SO NO FLAGS.

— LOW LEVEL SOIL - RECS + RPDS OK EXCEPT FOR LOW RECS IN LCS + LCSD FOR 1,1,2,2-TETRACHLOROETHANE

RE: Project: 71238.40 SANGAMO PLANT SITE
Pace Project No.: 4019039

Dear Mark Bailey:

Enclosed are the analytical results for sample(s) received by the laboratory on June 24, 2009. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

1,1,2,2-TETRACHLOROETHANE IN CP-D-04(16.5) IS ASSIGNED A "UJ" FLAG BECAUSE OF LOW LCS/LCSD RECOVERIES,

If you have any questions concerning this report, please feel free to contact me.

MS/MSD — BATCH QC — RECS + RPDS OK

LAB DUP-FOR % MOISTURE - HI RPD - BATCH QC. No FLAG ADDED BECAUSE BATCH QC.

Sincerely,

Kang Khang

kang.khang@pacelabs.com
Project Manager

TZH 7/6/09

Enclosures

cc: Lisa Clark, RMT - GREENVILLE
Terry Hertz, RMT GREENVILLE

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CERTIFICATIONS

Project: 71238.40 SANGAMO PLANT SITE
Pace Project No.: 4019039

Green Bay Certification IDs

Wisconsin DATCP Certification #: 105-444
Wisconsin DATCP Certification #: 105-444
Wisconsin Certification #: 405132750
Wisconsin Certification #: 405132750
South Carolina Certification #: 83006001
South Carolina Certification #: 83006001
North Dakota Certification #: R-200
North Dakota Certification #: R-150
North Carolina Certification #: 503
North Carolina Certification #: 503
New York Certification #: 11887
New York Certification #: 11888
Minnesota Certification #: 055-999-334
Minnesota Certification #: 055-999-334
Louisiana Certification #: 04169
Louisiana Certification #: 04168
Kentucky Certification #: 83
Kentucky Certification #: 82
Illinois Certification #: 200051
Illinois Certification #: 200050
Florida/NELAP Certification #: E87951
Florida/NELAP Certification #: E87948

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SAMPLE SUMMARY

Project: 71238.40 SANGAMO PLANT SITE
Pace Project No.: 4019039

Lab ID	Sample ID	Matrix	Date Collected	Date Received
4019039001	**CP-D-04 (16.5 FT)**	Solid	06/23/09 14:30	06/24/09 10:00
4019039002	**TBLK-09206**	Solid	06/23/09 14:30	06/24/09 10:00

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SAMPLE ANALYTE COUNT

Project: 71238.40 SANGAMO PLANT SITE
Pace Project No.: 4019039

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
4019039001	**CP-D-04 (16.5 FT)**	ASTM D2974-87	MRN	1	PASI-G
		EPA 8260	JJB	37	PASI-G
4019039002	**TBLK-09206**	EPA 8260	JJB	37	PASI-G

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PROJECT NARRATIVE

Project: 71238.40 SANGAMO PLANT SITE
Pace Project No.: 4019039

Method: EPA 8260
Description: 8260 MSV 5035 Low Level
Client: RMT - GREENVILLE
Date: July 02, 2009

General Information:
1 sample was analyzed for EPA 8260. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 5035A with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

QC Batch: MSV/4887

L0: Analyte recovery in the laboratory control sample (LCS) was outside QC limits.

- LCS (Lab ID: 176620)
  - 1,1,2,2-Tetrachloroethane
- LCSD (Lab ID: 176621)
  - 1,1,2,2-Tetrachloroethane

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: 71238.40 SANGAMO PLANT SITE
Pace Project No.: 4019039

Method: EPA 8260
Description: 8260 MSV Med Level Normal List
Client: RMT - GREENVILLE
Date: July 02, 2009

General Information:
1 sample was analyzed for EPA 8260. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 5035/5030B with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

QC Batch: MSV/4847

R1: RPD value was outside control limits.
- LCSD (Lab ID: 175300)
  - 1,1,2,2-Tetrachloroethane

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: MSV/4848

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: 71238.40 SANGAMO PLANT SITE
Pace Project No.: 4019039

Method: **ASTM D2974-87**
Description: Percent Moisture
Client: RMT - GREENVILLE
Date: July 02, 2009

General Information:
1 sample was analyzed for ASTM D2974-87. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: 71238.40 SANGAMO PLANT SITE
Pace Project No.: 4019039

Sample: CP-D-04 (16.5 FT) **Lab ID: 4019039001** Collected: 06/23/09 14:30 Received: 06/24/09 10:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035 Low Level	Analytical Method: EPA 8260 Preparation Method: EPA 5035A								
Acetone	**8.8J**	ug/kg	22.8	7.6	1	06/25/09 06:00	06/30/09 13:41	67-64-1	
Benzene	**<0.70**	ug/kg	5.7	0.70	1	06/25/09 06:00	06/30/09 13:41	71-43-2	
Bromodichloromethane	**<0.40**	ug/kg	5.7	0.40	1	06/25/09 06:00	06/30/09 13:41	75-27-4	
Bromoform	**<1.1**	ug/kg	5.7	1.1	1	06/25/09 06:00	06/30/09 13:41	75-25-2	
Bromomethane	**<1.3**	ug/kg	5.7	1.3	1	06/25/09 06:00	06/30/09 13:41	74-83-9	
2-Butanone (MEK)	**<2.1**	ug/kg	5.7	2.1	1	06/25/09 06:00	06/30/09 13:41	78-93-3	
Carbon disulfide	**<1.2**	ug/kg	5.7	1.2	1	06/25/09 06:00	06/30/09 13:41	75-15-0	
Carbon tetrachloride	**<0.91**	ug/kg	5.7	0.91	1	06/25/09 06:00	06/30/09 13:41	56-23-5	
Chlorobenzene	**<0.23**	ug/kg	5.7	0.23	1	06/25/09 06:00	06/30/09 13:41	108-90-7	
Chloroethane	**<1.7**	ug/kg	5.7	1.7	1	06/25/09 06:00	06/30/09 13:41	75-00-3	
Chloroform	**<0.62**	ug/kg	5.7	0.62	1	06/25/09 06:00	06/30/09 13:41	67-66-3	
Chloromethane	**<0.97**	ug/kg	5.7	0.97	1	06/25/09 06:00	06/30/09 13:41	74-87-3	
Dibromochloromethane	**<0.80**	ug/kg	5.7	0.80	1	06/25/09 06:00	06/30/09 13:41	124-48-1	
1,1-Dichloroethane	**<0.79**	ug/kg	5.7	0.79	1	06/25/09 06:00	06/30/09 13:41	75-34-3	
1,2-Dichloroethane	**<0.65**	ug/kg	5.7	0.65	1	06/25/09 06:00	06/30/09 13:41	107-06-2	
1,1-Dichloroethene	**<0.60**	ug/kg	5.7	0.60	1	06/25/09 06:00	06/30/09 13:41	75-35-4	
cis-1,2-Dichloroethene	**<1.1**	ug/kg	5.7	1.1	1	06/25/09 06:00	06/30/09 13:41	156-59-2	
trans-1,2-Dichloroethene	**<0.86**	ug/kg	5.7	0.86	1	06/25/09 06:00	06/30/09 13:41	156-60-5	
1,2-Dichloropropane	**<0.73**	ug/kg	5.7	0.73	1	06/25/09 06:00	06/30/09 13:41	78-87-5	
cis-1,3-Dichloropropene	**<0.62**	ug/kg	5.7	0.62	1	06/25/09 06:00	06/30/09 13:41	10061-01-5	
trans-1,3-Dichloropropene	**<0.60**	ug/kg	5.7	0.60	1	06/25/09 06:00	06/30/09 13:41	10061-02-6	
Ethylbenzene	**<0.30**	ug/kg	5.7	0.30	1	06/25/09 06:00	06/30/09 13:41	100-41-4	
2-Hexanone	**<1.5**	ug/kg	5.7	1.5	1	06/25/09 06:00	06/30/09 13:41	591-78-6	
Methylene Chloride	**1.6J**	ug/kg	5.7	0.46	1	06/25/09 06:00	06/30/09 13:41	75-09-2	Z3
4-Methyl-2-pentanone (MIBK)	**<0.97**	ug/kg	5.7	0.97	1	06/25/09 06:00	06/30/09 13:41	108-10-1	
Styrene	**<0.13**	ug/kg	5.7	0.13	1	06/25/09 06:00	06/30/09 13:41	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.85**	ug/kg	5.7	0.85	1	06/25/09 06:00	06/30/09 13:41	79-34-5	L2
Tetrachloroethene	**19.8**	ug/kg	5.7	1.0	1	06/25/09 06:00	06/30/09 13:41	127-18-4	
Toluene	**<0.97**	ug/kg	5.7	0.97	1	06/25/09 06:00	06/30/09 13:41	108-88-3	
1,1,1-Trichloroethane	**<0.88**	ug/kg	5.7	0.88	1	06/25/09 06:00	06/30/09 13:41	71-55-6	
1,1,2-Trichloroethane	**<0.81**	ug/kg	5.7	0.81	1	06/25/09 06:00	06/30/09 13:41	79-00-5	
Trichloroethene	**8.3**	ug/kg	5.7	0.65	1	06/25/09 06:00	06/30/09 13:41	79-01-6	
Vinyl chloride	**<0.99**	ug/kg	5.7	0.99	1	06/25/09 06:00	06/30/09 13:41	75-01-4	
Xylene (Total)	**<1.9**	ug/kg	17.1	1.9	1	06/25/09 06:00	06/30/09 13:41	1330-20-7	
Dibromofluoromethane (S)	81	%	63-130		1	06/25/09 06:00	06/30/09 13:41	1868-53-7	
Toluene-d8 (S)	94	%	70-130		1	06/25/09 06:00	06/30/09 13:41	2037-26-5	
4-Bromofluorobenzene (S)	89	%	70-130		1	06/25/09 06:00	06/30/09 13:41	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**22.6**	%	0.10	0.10	1		06/30/09 08:13		

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(920)469-2436

ANALYTICAL RESULTS

Project: 71238.40 SANGAMO PLANT SITE
Pace Project No.: 4019039

Sample: TBLK-09206 **Lab ID: 4019039002** Collected: 06/23/09 14:30 Received: 06/24/09 10:00 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
Acetone	**<126**	ug/kg	250	126	1	06/26/09 09:43	06/26/09 10:48	67-64-1	
Benzene	**<11.2**	ug/kg	25.0	11.2	1	06/26/09 09:43	06/26/09 10:48	71-43-2	
Bromodichloromethane	**<9.3**	ug/kg	50.0	9.3	1	06/26/09 09:43	06/26/09 10:48	75-27-4	
Bromoform	**<25.9**	ug/kg	50.0	25.9	1	06/26/09 09:43	06/26/09 10:48	75-25-2	
Bromomethane	**<22.5**	ug/kg	50.0	22.5	1	06/26/09 09:43	06/26/09 10:48	74-83-9	
2-Butanone (MEK)	**<82.9**	ug/kg	250	82.9	1	06/26/09 09:43	06/26/09 10:48	78-93-3	
Carbon disulfide	**<7.2**	ug/kg	50.0	7.2	1	06/26/09 09:43	06/26/09 10:48	75-15-0	
Carbon tetrachloride	**<10.1**	ug/kg	50.0	10.1	1	06/26/09 09:43	06/26/09 10:48	56-23-5	
Chlorobenzene	**<8.2**	ug/kg	50.0	8.2	1	06/26/09 09:43	06/26/09 10:48	108-90-7	
Chloroethane	**<22.3**	ug/kg	50.0	22.3	1	06/26/09 09:43	06/26/09 10:48	75-00-3	
Chloroform	**<7.2**	ug/kg	250	7.2	1	06/26/09 09:43	06/26/09 10:48	67-66-3	
Chloromethane	**<10.1**	ug/kg	50.0	10.1	1	06/26/09 09:43	06/26/09 10:48	74-87-3	
Dibromochloromethane	**<10.4**	ug/kg	50.0	10.4	1	06/26/09 09:43	06/26/09 10:48	124-48-1	
1,1-Dichloroethane	**<6.6**	ug/kg	50.0	6.6	1	06/26/09 09:43	06/26/09 10:48	75-34-3	
1,2-Dichloroethane	**<13.2**	ug/kg	25.0	13.2	1	06/26/09 09:43	06/26/09 10:48	107-06-2	
1,1-Dichloroethene	**<15.4**	ug/kg	50.0	15.4	1	06/26/09 09:43	06/26/09 10:48	75-35-4	
cis-1,2-Dichloroethene	**<8.3**	ug/kg	50.0	8.3	1	06/26/09 09:43	06/26/09 10:48	156-59-2	
trans-1,2-Dichloroethene	**<18.7**	ug/kg	50.0	18.7	1	06/26/09 09:43	06/26/09 10:48	156-60-5	
1,2-Dichloropropane	**<8.5**	ug/kg	50.0	8.5	1	06/26/09 09:43	06/26/09 10:48	78-87-5	
cis-1,3-Dichloropropene	**<9.6**	ug/kg	50.0	9.6	1	06/26/09 09:43	06/26/09 10:48	10061-01-5	
trans-1,3-Dichloropropene	**<10.5**	ug/kg	50.0	10.5	1	06/26/09 09:43	06/26/09 10:48	10061-02-6	
Ethylbenzene	**<10.2**	ug/kg	25.0	10.2	1	06/26/09 09:43	06/26/09 10:48	100-41-4	
2-Hexanone	**<49.5**	ug/kg	250	49.5	1	06/26/09 09:43	06/26/09 10:48	591-78-6	
Methylene Chloride	**65.2**	ug/kg	50.0	8.2	1	06/26/09 09:43	06/26/09 10:48	75-09-2	Z3
4-Methyl-2-pentanone (MIBK)	**<15.8**	ug/kg	50.0	15.8	1	06/26/09 09:43	06/26/09 10:48	108-10-1	
Styrene	**<12.0**	ug/kg	50.0	12.0	1	06/26/09 09:43	06/26/09 10:48	100-42-5	
1,1,2,2-Tetrachloroethane	**<12.5**	ug/kg	50.0	12.5	1	06/26/09 09:43	06/26/09 10:48	79-34-5	
Tetrachloroethene	**<10.8**	ug/kg	50.0	10.8	1	06/26/09 09:43	06/26/09 10:48	127-18-4	
Toluene	**<7.7**	ug/kg	50.0	7.7	1	06/26/09 09:43	06/26/09 10:48	108-88-3	
1,1,1-Trichloroethane	**<9.4**	ug/kg	50.0	9.4	1	06/26/09 09:43	06/26/09 10:48	71-55-6	
1,1,2-Trichloroethane	**<20.1**	ug/kg	50.0	20.1	1	06/26/09 09:43	06/26/09 10:48	79-00-5	
Trichloroethene	**<9.7**	ug/kg	50.0	9.7	1	06/26/09 09:43	06/26/09 10:48	79-01-6	
Vinyl chloride	**<10.0**	ug/kg	50.0	10.0	1	06/26/09 09:43	06/26/09 10:48	75-01-4	
Xylene (Total)	**<24.7**	ug/kg	75.0	24.7	1	06/26/09 09:43	06/26/09 10:48	1330-20-7	
Dibromofluoromethane (S)	107	%	70-150		1	06/26/09 09:43	06/26/09 10:48	1868-53-7	
Toluene-d8 (S)	101	%	70-155		1	06/26/09 09:43	06/26/09 10:48	2037-26-5	
4-Bromofluorobenzene (S)	96	%	70-147		1	06/26/09 09:43	06/26/09 10:48	460-00-4	

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QUALITY CONTROL DATA

Project: 71238.40 SANGAMO PLANT SITE
Pace Project No.: 4019039

QC Batch: MSV/4847
QC Batch Method: EPA 5035/5030B
Analysis Method: EPA 8260
Analysis Description: 8260 MSV Med Level Normal List
Associated Lab Samples: 4019039002

METHOD BLANK: 175298
Matrix: Solid
Associated Lab Samples: 4019039002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/kg	<9.4	50.0	06/26/09 09:16	
1,1,2,2-Tetrachloroethane	ug/kg	<12.5	50.0	06/26/09 09:16	
1,1,2-Trichloroethane	ug/kg	<20.1	50.0	06/26/09 09:16	
1,1-Dichloroethane	ug/kg	<6.6	50.0	06/26/09 09:16	
1,1-Dichloroethene	ug/kg	<15.4	50.0	06/26/09 09:16	
1,2-Dichloroethane	ug/kg	<13.2	25.0	06/26/09 09:16	
1,2-Dichloropropane	ug/kg	<8.5	50.0	06/26/09 09:16	
2-Butanone (MEK)	ug/kg	<82.9	250	06/26/09 09:16	
2-Hexanone	ug/kg	<49.5	250	06/26/09 09:16	
4-Methyl-2-pentanone (MIBK)	ug/kg	<15.8	50.0	06/26/09 09:16	
Acetone	ug/kg	<126	250	06/26/09 09:16	
Benzene	ug/kg	<11.2	25.0	06/26/09 09:16	
Bromodichloromethane	ug/kg	<9.3	50.0	06/26/09 09:16	
Bromoform	ug/kg	<25.9	50.0	06/26/09 09:16	
Bromomethane	ug/kg	<22.5	50.0	06/26/09 09:16	
Carbon disulfide	ug/kg	<7.2	50.0	06/26/09 09:16	
Carbon tetrachloride	ug/kg	<10.1	50.0	06/26/09 09:16	
Chlorobenzene	ug/kg	<8.2	50.0	06/26/09 09:16	
Chloroethane	ug/kg	<22.3	50.0	06/26/09 09:16	
Chloroform	ug/kg	<7.2	250	06/26/09 09:16	
Chloromethane	ug/kg	<10.1	50.0	06/26/09 09:16	
cis-1,2-Dichloroethene	ug/kg	<8.3	50.0	06/26/09 09:16	
cis-1,3-Dichloropropene	ug/kg	<9.6	50.0	06/26/09 09:16	
Dibromochloromethane	ug/kg	<10.4	50.0	06/26/09 09:16	
Ethylbenzene	ug/kg	<10.2	25.0	06/26/09 09:16	
Methylene Chloride	ug/kg	<8.2	50.0	06/26/09 09:16	
Styrene	ug/kg	<12.0	50.0	06/26/09 09:16	
Tetrachloroethene	ug/kg	<10.8	50.0	06/26/09 09:16	
Toluene	ug/kg	<7.7	50.0	06/26/09 09:16	
trans-1,2-Dichloroethene	ug/kg	<18.7	50.0	06/26/09 09:16	
trans-1,3-Dichloropropene	ug/kg	<10.5	50.0	06/26/09 09:16	
Trichloroethene	ug/kg	<9.7	50.0	06/26/09 09:16	
Vinyl chloride	ug/kg	<10.0	50.0	06/26/09 09:16	
Xylene (Total)	ug/kg	<24.7	75.0	06/26/09 09:16	
4-Bromofluorobenzene (S)	%	99	70-147	06/26/09 09:16	
Dibromofluoromethane (S)	%	108	70-150	06/26/09 09:16	
Toluene-d8 (S)	%	112	70-155	06/26/09 09:16	

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QUALITY CONTROL DATA

Project: 71238.40 SANGAMO PLANT SITE
Pace Project No.: 4019039

LABORATORY CONTROL SAMPLE & LCSD: 175299 175300

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/kg	2500	3070	3120	123	125	68-140	2	20	
1,1,2,2-Tetrachloroethane	ug/kg	2500	2350	3040	94	122	67-131	26	20	R1
1,1,2-Trichloroethane	ug/kg	2500	2530	2660	101	106	70-130	5	20	
1,1-Dichloroethane	ug/kg	2500	2490	2490	100	100	70-130	.1	20	
1,1-Dichloroethene	ug/kg	2500	2600	2540	104	101	70-133	2	20	
1,2-Dichloroethane	ug/kg	2500	2640	2630	105	105	70-132	.3	20	
1,2-Dichloropropane	ug/kg	2500	2530	2580	101	103	70-130	2	20	
2-Butanone (MEK)	ug/kg	2500	2220	2450	89	98	50-150	10	20	
2-Hexanone	ug/kg	2500	1630	1870	65	75	50-150	14	20	
4-Methyl-2-pentanone (MIBK)	ug/kg	2500	1860	2090	74	84	50-150	12	21	
Acetone	ug/kg	2500	2000	2080	80	83	23-214	4	21	
Benzene	ug/kg	2500	2710	2720	108	109	70-130	.3	20	
Bromodichloromethane	ug/kg	2500	2440	2490	98	100	70-130	2	20	
Bromoform	ug/kg	2500	2070	2250	83	90	70-130	9	20	
Bromomethane	ug/kg	2500	2550	2590	102	104	65-153	2	20	
Carbon disulfide	ug/kg	2500	2430	2480	97	99	70-130	2	20	
Carbon tetrachloride	ug/kg	2500	2990	3010	120	120	70-142	.5	20	
Chlorobenzene	ug/kg	2500	2560	2690	102	108	70-130	5	20	
Chloroethane	ug/kg	2500	2770	2630	111	105	70-178	5	20	
Chloroform	ug/kg	2500	2740	2770	109	111	70-130	1	20	
Chloromethane	ug/kg	2500	2030	2050	81	82	53-143	.9	20	
cis-1,2-Dichloroethene	ug/kg	2500	2650	2690	106	108	70-130	2	20	
cis-1,3-Dichloropropene	ug/kg	2500	2340	2390	93	96	70-130	2	20	
Dibromochloromethane	ug/kg	2500	2330	2510	93	100	70-130	7	20	
Ethylbenzene	ug/kg	2500	2800	3000	112	120	70-130	7	20	
Methylene Chloride	ug/kg	2500	2540	2510	102	100	70-134	1	20	
Styrene	ug/kg	2500	2140	2270	86	91	70-130	6	20	
Tetrachloroethene	ug/kg	2500	2980	3170	119	127	70-130	6	20	
Toluene	ug/kg	2500	2860	3010	114	120	70-130	5	20	
trans-1,2-Dichloroethene	ug/kg	2500	2520	2530	101	101	67-130	.5	20	
trans-1,3-Dichloropropene	ug/kg	2500	2280	2500	91	100	70-130	9	20	
Trichloroethene	ug/kg	2500	2810	2870	112	115	70-130	2	20	
Vinyl chloride	ug/kg	2500	2270	2310	91	92	70-130	2	20	
Xylene (Total)	ug/kg	7500	7740	8240	103	110	70-130	6	20	
4-Bromofluorobenzene (S)	%				107	108	70-147			
Dibromofluoromethane (S)	%				118	114	70-150			
Toluene-d8 (S)	%				116	115	70-155			

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QUALITY CONTROL DATA

Project: 71238.40 SANGAMO PLANT SITE
Pace Project No.: 4019039

QC Batch: PMST/2640
QC Batch Method: ASTM D2974-87
Analysis Method: ASTM D2974-87
Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 4019039001

SAMPLE DUPLICATE: 176506

Parameter	Units	4019186002 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	11.9	13.9	16	10	

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QUALITY CONTROL DATA

Project: 71238.40 SANGAMO PLANT SITE
Pace Project No.: 4019039

QC Batch: MSV/4887
QC Batch Method: EPA 8260
Analysis Method: EPA 8260
Analysis Description: 8260 MSV 5035 Low Level
Associated Lab Samples: 4019039001

METHOD BLANK: 176619
Matrix: Solid
Associated Lab Samples: 4019039001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/kg	<0.77	5.0	06/30/09 07:49	
1,1,2,2-Tetrachloroethane	ug/kg	<0.74	5.0	06/30/09 07:49	
1,1,2-Trichloroethane	ug/kg	<0.71	5.0	06/30/09 07:49	
1,1-Dichloroethane	ug/kg	<0.69	5.0	06/30/09 07:49	
1,1-Dichloroethene	ug/kg	<0.52	5.0	06/30/09 07:49	
1,2-Dichloroethane	ug/kg	<0.57	5.0	06/30/09 07:49	
1,2-Dichloropropane	ug/kg	<0.64	5.0	06/30/09 07:49	
2-Butanone (MEK)	ug/kg	<1.8	5.0	06/30/09 07:49	
2-Hexanone	ug/kg	<1.3	5.0	06/30/09 07:49	
4-Methyl-2-pentanone (MIBK)	ug/kg	<0.85	5.0	06/30/09 07:49	
Acetone	ug/kg	<6.7	20.0	06/30/09 07:49	
Benzene	ug/kg	<0.61	5.0	06/30/09 07:49	
Bromodichloromethane	ug/kg	<0.35	5.0	06/30/09 07:49	
Bromoform	ug/kg	<0.99	5.0	06/30/09 07:49	
Bromomethane	ug/kg	<1.1	5.0	06/30/09 07:49	
Carbon disulfide	ug/kg	<1.1	5.0	06/30/09 07:49	
Carbon tetrachloride	ug/kg	<0.80	5.0	06/30/09 07:49	
Chlorobenzene	ug/kg	<0.21	5.0	06/30/09 07:49	
Chloroethane	ug/kg	<1.5	5.0	06/30/09 07:49	
Chloroform	ug/kg	<0.54	5.0	06/30/09 07:49	
Chloromethane	ug/kg	<0.85	5.0	06/30/09 07:49	
cis-1,2-Dichloroethene	ug/kg	<1.0	5.0	06/30/09 07:49	
cis-1,3-Dichloropropene	ug/kg	<0.54	5.0	06/30/09 07:49	
Dibromochloromethane	ug/kg	<0.71	5.0	06/30/09 07:49	
Ethylbenzene	ug/kg	<0.26	5.0	06/30/09 07:49	
Methylene Chloride	ug/kg	<0.40	5.0	06/30/09 07:49	
Styrene	ug/kg	<0.12	5.0	06/30/09 07:49	
Tetrachloroethene	ug/kg	<0.92	5.0	06/30/09 07:49	
Toluene	ug/kg	<0.85	5.0	06/30/09 07:49	
trans-1,2-Dichloroethene	ug/kg	<0.75	5.0	06/30/09 07:49	
trans-1,3-Dichloropropene	ug/kg	<0.53	5.0	06/30/09 07:49	
Trichloroethene	ug/kg	<0.57	5.0	06/30/09 07:49	
Vinyl chloride	ug/kg	<0.87	5.0	06/30/09 07:49	
4-Bromofluorobenzene (S)	%	89	70-130	06/30/09 07:49	
Dibromofluoromethane (S)	%	76	63-130	06/30/09 07:49	
Toluene-d8 (S)	%	97	70-130	06/30/09 07:49	

LABORATORY CONTROL SAMPLE & LCSD: 176620 176621

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/kg	50	46.6	46.4	93	93	70-130	.6	20	

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QUALITY CONTROL DATA

Project: 71238.40 SANGAMO PLANT SITE
Pace Project No.: 4019039

LABORATORY CONTROL SAMPLE & LCSD: 176620 176621

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,1,2,2-Tetrachloroethane	ug/kg	50	32.3	31.9	65	64	70-130	1	20	L0
1,1,2-Trichloroethane	ug/kg	50	45.0	44.4	90	89	70-130	1	20	
1,1-Dichloroethane	ug/kg	50	38.6	38.8	77	78	67-137	.3	20	
1,1-Dichloroethene	ug/kg	50	51.4	52.8	103	106	70-130	3	20	
1,2-Dichloroethane	ug/kg	50	39.5	39.0	79	78	63-134	1	20	
1,2-Dichloropropane	ug/kg	50	42.5	42.5	85	85	70-130	.04	20	
2-Butanone (MEK)	ug/kg	50	25.3	26.3	51	53	35-150	4	42	
2-Hexanone	ug/kg	50	37.1	36.4	74	73	42-157	2	20	
4-Methyl-2-pentanone (MIBK)	ug/kg	50	38.4	36.8	77	74	50-150	4	20	
Acetone	ug/kg	50	22.0	21.2	44	42	10-197	4	85	
Benzene	ug/kg	50	43.0	42.9	86	86	70-130	.03	20	
Bromodichloromethane	ug/kg	50	47.9	47.9	96	96	70-130	.03	20	
Bromoform	ug/kg	50	55.1	55.2	110	110	64-137	.2	20	
Bromomethane	ug/kg	50	53.7	54.4	107	109	66-136	1	20	
Carbon disulfide	ug/kg	50	48.0	47.7	96	95	54-154	.7	20	
Carbon tetrachloride	ug/kg	50	49.4	49.0	99	98	70-130	.8	20	
Chlorobenzene	ug/kg	50	52.6	51.9	105	104	70-130	1	20	
Chloroethane	ug/kg	50	46.2	46.1	92	92	59-140	.2	20	
Chloroform	ug/kg	50	42.4	42.0	85	84	69-130	1	20	
Chloromethane	ug/kg	50	40.2	39.5	80	79	27-141	2	20	
cis-1,2-Dichloroethene	ug/kg	50	43.4	43.2	87	86	70-130	.3	20	
cis-1,3-Dichloropropene	ug/kg	50	46.6	46.0	93	92	70-130	1	20	
Dibromochloromethane	ug/kg	50	49.2	49.4	98	99	70-130	.5	20	
Ethylbenzene	ug/kg	50	50.0	49.9	100	100	70-130	.2	20	
Methylene Chloride	ug/kg	50	41.1	41.3	82	83	70-130	.6	20	
Styrene	ug/kg	50	49.8	48.3	100	97	70-130	3	20	
Tetrachloroethene	ug/kg	50	63.9	63.3	128	127	67-139	.9	20	
Toluene	ug/kg	50	50.9	50.3	102	101	70-130	1	20	
trans-1,2-Dichloroethene	ug/kg	50	44.7	45.0	89	90	70-130	.5	20	
trans-1,3-Dichloropropene	ug/kg	50	43.7	43.1	87	86	70-130	1	20	
Trichloroethene	ug/kg	50	55.7	55.2	111	110	70-130	.9	20	
Vinyl chloride	ug/kg	50	45.7	45.2	91	90	65-142	1	20	
4-Bromofluorobenzene (S)	%				89	90	70-130			
Dibromofluoromethane (S)	%				77	79	63-130			
Toluene-d8 (S)	%				95	97	70-130			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 176622 176623

Parameter	Units	4019259004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1-Trichloroethane	ug/kg	ND	49.6	48.5	47.3	46.9	95	97	40-143	1	20	
1,1,2,2-Tetrachloroethane	ug/kg	ND	49.6	48.5	49.3	52.0	99	107	10-130	5	20	
1,1,2-Trichloroethane	ug/kg	ND	49.6	48.5	48.4	47.7	98	99	29-158	1	20	
1,1-Dichloroethane	ug/kg	ND	49.6	48.5	38.9	38.0	78	78	48-145	2	20	
1,1-Dichloroethene	ug/kg	ND	49.6	48.5	54.3	51.2	109	106	57-140	6	20	
1,2-Dichloroethane	ug/kg	ND	49.6	48.5	36.1	36.5	73	75	41-134	1	20	
1,2-Dichloropropane	ug/kg	ND	49.6	48.5	39.6	39.0	80	81	44-134	2	20	

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QUALITY CONTROL DATA

Project: 71238.40 SANGAMO PLANT SITE
Pace Project No.: 4019039

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 176622 176623

Parameter	Units	4019259004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
2-Butanone (MEK)	ug/kg	ND	49.6	48.5	33.6	34.4	65	68	10-150	2	42	
2-Hexanone	ug/kg	ND	49.6	48.5	36.0	34.4	73	71	42-157	5	20	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	49.6	48.5	35.6	34.3	72	71	16-172	4	20	
Acetone	ug/kg	ND	49.6	48.5	44.1	75.4	57	123	10-197	52	85	
Benzene	ug/kg	ND	49.6	48.5	40.7	39.1	82	81	45-137	4	20	
Bromodichloromethane	ug/kg	ND	49.6	48.5	44.0	40.9	89	84	35-135	7	20	
Bromoform	ug/kg	ND	49.6	48.5	48.6	40.5	98	84	10-161	18	20	
Bromomethane	ug/kg	ND	49.6	48.5	49.9	51.2	101	106	57-142	3	20	
Carbon disulfide	ug/kg	ND	49.6	48.5	45.6	42.6	92	88	54-154	7	20	
Carbon tetrachloride	ug/kg	ND	49.6	48.5	49.4	45.8	100	95	34-148	8	20	
Chlorobenzene	ug/kg	ND	49.6	48.5	41.2	39.2	83	81	10-144	5	20	
Chloroethane	ug/kg	ND	49.6	48.5	47.2	46.8	95	97	52-141	8	20	
Chloroform	ug/kg	ND	49.6	48.5	41.8	41.2	84	85	47-134	1	20	
Chloromethane	ug/kg	ND	49.6	48.5	41.0	39.7	83	82	23-143	3	20	
cis-1,2-Dichloroethene	ug/kg	ND	49.6	48.5	41.1	39.3	83	81	41-139	4	20	
cis-1,3-Dichloropropene	ug/kg	ND	49.6	48.5	36.1	30.9	73	64	20-139	15	20	
Dibromochloromethane	ug/kg	ND	49.6	48.5	49.4	44.3	100	92	16-151	11	20	
Ethylbenzene	ug/kg	ND	49.6	48.5	45.4	44.5	92	92	18-140	2	20	
Methylene Chloride	ug/kg	ND	49.6	48.5	42.8	42.2	81	82	51-140	1	20	
Styrene	ug/kg	ND	49.6	48.5	31.9	27.2	64	56	10-148	16	20	
Tetrachloroethene	ug/kg	ND	49.6	48.5	64.2	61.9	129	128	15-157	4	20	
Toluene	ug/kg	ND	49.6	48.5	51.2	50.6	103	104	33-140	1	20	
trans-1,2-Dichloroethene	ug/kg	ND	49.6	48.5	43.7	41.1	88	85	41-139	6	20	
trans-1,3-Dichloropropene	ug/kg	ND	49.6	48.5	37.5	32.5	76	67	10-140	14	20	
Trichloroethene	ug/kg	ND	49.6	48.5	48.2	46.2	97	95	28-145	4	20	
Vinyl chloride	ug/kg	ND	49.6	48.5	47.2	45.4	95	94	49-149	4	20	
4-Bromofluorobenzene (S)	%						74	71	70-130			
Dibromofluoromethane (S)	%						83	84	63-130			
Toluene-d8 (S)	%						108	112	70-130			

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(920)469-2436

QUALIFIERS

Project: 71238.40 SANGAMO PLANT SITE
Pace Project No.: 4019039

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

Pace Analytical is NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

U - Indicates the compound was analyzed for, but not detected.

LABORATORIES

PASI-G Pace Analytical Services - Green Bay

BATCH QUALIFIERS

Batch: MSV/4848

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

ANALYTE QUALIFIERS

L0 Analyte recovery in the laboratory control sample (LCS) was outside QC limits.

L2 Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results may be biased low.

R1 RPD value was outside control limits.

Z3 Methylene chloride is a common laboratory contaminant. Results for this analyte should be considered estimated unless the amount found in the sample is 3 to 5 times higher than that found in the method blank.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 71238.40 SANGAMO PLANT SITE
Pace Project No.: 4019039

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
4019039001	**CP-D-04 (16.5 FT)**	EPA 5035A	MSV/4823	EPA 8260	MSV/4887
4019039002	**TBLK-09206**	EPA 5035/5030B	MSV/4847	EPA 8260	MSV/4848
4019039001	**CP-D-04 (16.5 FT)**	ASTM D2974-87	PMST/2640		

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RMT

CHAIN OF CUSTODY RECORD

KEV

77167

4019039

30 Patewood Drive, Suite 100, Patewood Plaza One, Greenville, SC 29615-3535
Phone 864/281-0030 • Fax 864/281-0288

Filtered (Yes/No): N

Preserved (Code): F/G A F

Project No.: 71238.40

Project/Client: Sangamo Plant Site

Project Manager/Contact Person: Mike Parker / Terry Hertz

PRESERVED CODES
A — NONE
B — HNO_3
C — H_2SO_4
D — NaOH
E — HCl
F — METHANOL
G — DI

Lab No.	Yr. 09 Date	Time	Sample Station ID	Total Number of Containers	MATRIX	Analyses Requested: VOC	Moisture	VOC						Comments:
001	6/23	14:30	CP-D-04 (16.5 ft)	4	S	X	X							1-4oz AG; 3-40ml G,G,F
002			TBLK-09206	1				X						1-40ml F

SPECIAL INSTRUCTIONS

SAMPLER Relinquished by (Signature)	Date/Time	Received by (Signature)	Date/Time
Lisa [signature]	6/23/09 1640	Bill Mellin	6/23/09 1640
Relinquished by (Signature)	Date/Time	Received by (Signature)	Date/Time
Bill Mellin	6/23/09 1845	FedEx # 8682 8759 1162	6/23/09 1845
Relinquished by (Signature)	Date/Time	Received by (Signature)	Date/Time
FedEx	6/24/09 10:00	L. Warner	6/24/09 10:00

HAZARDS ASSOCIATED WITH SAMPLES
- ☐ Flammable
- ☐ Corrosive
- ☐ Highly Toxic
- ☐ Other (list)

Turn Around (circle one): Normal Rush

Report Due _____

(For Lab Use Only)

Receipt Temp: Temp Blank Y N

Receipt pH (Wet/Metals)

Custody Seal: Present/Absent Intact/Not Intact Seal #s

F-268 (10/08)

WHITE—LABORATORY COPY YELLOW—REPORT APPENDIX PINK—SAMPLER/SUBMITTER

Sample Condition Upon Receipt

Pace Analytical

Client Name: RMT Project # 4019039

Courier: ☑ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace Other _____

Tracking #: _____

Optional
Proj. Due Date:
Proj. Name:

Custody Seal on Cooler/Box Present: ☑ yes ☐ no Seals intact: ☑ yes ☐ no

Packing Material: ☑ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other _____

Thermometer Used IB **Type of Ice:** (Wet) Blue None ☐ Samples on ice, cooling process has begun

Cooler Temperature 2°C **Biological Tissue is Frozen:** Yes No

Temp should be above freezing to 6°C

Date and Initials of person examining contents: 06/23/09

Comments:

Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☑Yes ☐No ☐N/A	6.
Rush Turn Around Time Requested:	☐Yes ☑No ☐N/A	7.
Sufficient Volume:	☑Yes ☐No ☐N/A	8.
Correct Containers Used:	☑Yes ☐No ☐N/A	9.
-Pace Containers Used:	☑Yes ☐No ☐N/A	
Containers Intact:	☑Yes ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☑N/A	11.
Sample Labels match COC:	☑Yes ☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix:	06/23 S	
All containers needing preservation have been checked.	☐Yes ☐No ☑N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☐Yes ☐No ☑N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☐Yes ☐No	Initial when completed / Lot # of added preservative
Samples checked for dechlorination:	☐Yes ☐No ☑N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes ☐No ☑N/A	15.
Trip Blank Present:	☑Yes ☐No ☐N/A	16.
Trip Blank Custody Seals Present	☑Yes ☐No ☐N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____ **Date:** 6/24/09

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

Samples Collected 06/30/09

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July 13, 2009

Mark Bailey
RMT Greenville
30 Patewood Drive
Suite100, Patewood Plaza One
Greenville, SC 296153535

RE: Project: 71238.40 SANGAMO PLANT SITE
Pace Project No.: 4019402

Dear Mark Bailey:
Enclosed are the analytical results for sample(s) received by the laboratory on July 02, 2009. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Kang Khang

kang.khang@pacelabs.com
Project Manager

Enclosures

cc: Lisa Clark, RMT - GREENVILLE
Terry Hertz, RMT GREENVILLE

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CoCs - SIGNED; TEMP - OK; NARR - OK; HT - OK
SURRS - RECS OK
MBLKS - CLEAN
TBLK-09201 - ~~0.00~~ 0.73J ug/L TOLUENE
LCS/LCSD - 3 PAIRS - ALL RECS & RPDS OK
MS/MSD — SPRW-602-F USED FOR MS/MSD. RECS & RPDS OK.
— SPRW-401-B USED FOR MS/MSD. RECS & RPDS OK
— SPRW-602-A USED FOR MS/MSD.

July 10, 2009

Mark Bailey
RMT Greenville
30 Patewood Drive
Suite100, Patewood Plaza One
Greenville, SC 296153535

RE: Project: 71238.40 SANGAMO PLANT SITE
Pace Project No.: 4019402

Dear Mark Bailey:
Enclosed are the analytical results for sample(s) received by the laboratory on July 02, 2009. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Kang Khang

Kang Khang

kang.khang@pacelabs.com
Project Manager

Enclosures

cc: Lisa Clark, RMT - GREENVILLE
Terry Hertz, RMT GREENVILLE

TOLUENE WAS NOT DETECTED IN ANY SAMPLE AT A CONCENTRATION EQUAL TO OR LESS THAN 5X THE TOLUENE CONCENTRATION IN THE TRIP BLANK. NO FLAGS WERE ADDED.

NO VALIDATION FLAGS ADDED

GLH 7/10/09

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nelac

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CERTIFICATIONS

Project: 71238.40 SANGAMO PLANT SITE
Pace Project No.: 4019402

Green Bay Certification IDs

Wisconsin DATCP Certification #: 105-444
Wisconsin DATCP Certification #: 105-444
Wisconsin Certification #: 405132750
Wisconsin Certification #: 405132750
South Carolina Certification #: 83006001
South Carolina Certification #: 83006001
North Dakota Certification #: R-200
North Dakota Certification #: R-150
North Carolina Certification #: 503
North Carolina Certification #: 503
New York Certification #: 11887
New York Certification #: 11888
Minnesota Certification #: 055-999-334
Minnesota Certification #: 055-999-334
Louisiana Certification #: 04169
Louisiana Certification #: 04168
Kentucky Certification #: 83
Kentucky Certification #: 82
Illinois Certification #: 200051
Illinois Certification #: 200050
Florida/NELAP Certification #: E87951
Florida/NELAP Certification #: E87948

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SAMPLE SUMMARY

Project: 71238.40 SANGAMO PLANT SITE
Pace Project No.: 4019402

Lab ID	Sample ID	Matrix	Date Collected	Date Received
4019402001	SPRW-602-A	Water	06/30/09 10:10	07/02/09 10:05
4019402002	SPRW-602-B	Water	06/30/09 10:20	07/02/09 10:05
4019402003	SPRW-602-C	Water	06/30/09 10:30	07/02/09 10:05
4019402004	SPRW-602-D	Water	06/30/09 10:40	07/02/09 10:05
4019402005	SPRW-602-E	Water	06/30/09 10:50	07/02/09 10:05
4019402006	SPRW-602-F	Water	06/30/09 11:00	07/02/09 10:05
4019402007	SPRW-602-G	Water	06/30/09 11:10	07/02/09 10:05
4019402008	SPRW-602-H	Water	06/30/09 11:20	07/02/09 10:05
4019402009	SPRW-602-I	Water	06/30/09 11:30	07/02/09 10:05
4019402010	SPRW-602-J	Water	06/30/09 11:40	07/02/09 10:05
4019402011	SPRW-602-K	Water	06/30/09 11:50	07/02/09 10:05
4019402012	SPRW-202-A	Water	06/30/09 14:20	07/02/09 10:05
4019402013	SPRW-202-B	Water	06/30/09 14:30	07/02/09 10:05
4019402014	SPRW-202-C	Water	06/30/09 14:40	07/02/09 10:05
4019402015	SPRW-202-D	Water	06/30/09 14:50	07/02/09 10:05
4019402016	SPRW-202-E	Water	06/30/09 15:00	07/02/09 10:05
4019402017	SPRW-202-F	Water	06/30/09 15:10	07/02/09 10:05
4019402018	SPRW-202-G	Water	06/30/09 15:20	07/02/09 10:05
4019402019	SPRW-202-H	Water	06/30/09 15:30	07/02/09 10:05
4019402020	SPRW-202-I	Water	06/30/09 15:40	07/02/09 10:05
4019402021	SPRW-204-A	Water	06/30/09 16:00	07/02/09 10:05
4019402022	SPRW-204-B	Water	06/30/09 16:10	07/02/09 10:05
4019402023	SPRW-204-C	Water	06/30/09 16:20	07/02/09 10:05
4019402024	SPRW-303A-A	Water	07/01/09 10:10	07/02/09 10:05
4019402025	SPRW-303A-B	Water	07/01/09 10:20	07/02/09 10:05
4019402026	SPRW-303A-C	Water	07/01/09 10:30	07/02/09 10:05
4019402027	SPRW-303A-D	Water	07/01/09 10:40	07/02/09 10:05
4019402028	SPRW-303A-E	Water	07/01/09 10:50	07/02/09 10:05
4019402029	SPRW-303A-F	Water	07/01/09 11:00	07/02/09 10:05
4019402030	SPRW-301-A	Water	07/01/09 11:30	07/02/09 10:05
4019402031	SPRW-301-B	Water	07/01/09 11:40	07/02/09 10:05
4019402032	SPRW-301-C	Water	07/01/09 11:50	07/02/09 10:05
4019402033	SPRW-301-D	Water	07/01/09 12:00	07/02/09 10:05
4019402034	SPRW-301-E	Water	07/01/09 12:10	07/02/09 10:05
4019402035	SPRW-301-F	Water	07/01/09 12:20	07/02/09 10:05
4019402036	SPRW-401-A	Water	07/01/09 14:15	07/02/09 10:05
4019402037	SPRW-401-B	Water	07/01/09 14:25	07/02/09 10:05

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SAMPLE SUMMARY

Project: 71238.40 SANGAMO PLANT SITE
Pace Project No.: 4019402

Lab ID	Sample ID	Matrix	Date Collected	Date Received
4019402038	SPRW-401-C	Water	07/01/09 14:35	07/02/09 10:05
4019402039	SPRW-401-D	Water	07/01/09 14:45	07/02/09 10:05
4019402040	SPRW-401-E	Water	07/01/09 14:55	07/02/09 10:05
4019402041	SPRW-401-F	Water	07/01/09 15:05	07/02/09 10:05
4019402042	TBLK-09201	Water	07/01/09 00:00	07/02/09 10:05

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SAMPLE ANALYTE COUNT

Project: 71238.40 SANGAMO PLANT SITE
Pace Project No.: 4019402

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
4019402001	SPRW-602-A	EPA 8260	SMT	37	PASI-G
4019402002	SPRW-602-B	EPA 8260	SMT	37	PASI-G
4019402003	SPRW-602-C	EPA 8260	SMT	37	PASI-G
4019402004	SPRW-602-D	EPA 8260	SMT	37	PASI-G
4019402005	SPRW-602-E	EPA 8260	SMT	37	PASI-G
4019402006	SPRW-602-F	EPA 8260	SMT	37	PASI-G
4019402007	SPRW-602-G	EPA 8260	SMT	37	PASI-G
4019402008	SPRW-602-H	EPA 8260	SMT	37	PASI-G
4019402009	SPRW-602-I	EPA 8260	SMT	37	PASI-G
4019402010	SPRW-602-J	EPA 8260	SMT	37	PASI-G
4019402011	SPRW-602-K	EPA 8260	SMT	37	PASI-G
4019402012	SPRW-202-A	EPA 8260	SMT	37	PASI-G
4019402013	SPRW-202-B	EPA 8260	SMT	37	PASI-G
4019402014	SPRW-202-C	EPA 8260	SMT	37	PASI-G
4019402015	SPRW-202-D	EPA 8260	SMT	37	PASI-G
4019402016	SPRW-202-E	EPA 8260	SMT	37	PASI-G
4019402017	SPRW-202-F	EPA 8260	SMT	37	PASI-G
4019402018	SPRW-202-G	EPA 8260	SMT	37	PASI-G
4019402019	SPRW-202-H	EPA 8260	SMT	37	PASI-G
4019402020	SPRW-202-I	EPA 8260	SMT	37	PASI-G
4019402021	SPRW-204-A	EPA 8260	SMT	37	PASI-G
4019402022	SPRW-204-B	EPA 8260	SMT	37	PASI-G
4019402023	SPRW-204-C	EPA 8260	SMT	37	PASI-G
4019402024	SPRW-303A-A	EPA 8260	SMT	37	PASI-G
4019402025	SPRW-303A-B	EPA 8260	SMT	37	PASI-G
4019402026	SPRW-303A-C	EPA 8260	SMT	37	PASI-G
4019402027	SPRW-303A-D	EPA 8260	SMT	37	PASI-G
4019402028	SPRW-303A-E	EPA 8260	SMT	37	PASI-G
4019402029	SPRW-303A-F	EPA 8260	SMT	37	PASI-G
4019402030	SPRW-301-A	EPA 8260	SMT	37	PASI-G
4019402031	SPRW-301-B	EPA 8260	SMT	37	PASI-G
4019402032	SPRW-301-C	EPA 8260	SMT	37	PASI-G
4019402033	SPRW-301-D	EPA 8260	SMT	37	PASI-G
4019402034	SPRW-301-E	EPA 8260	SMT	37	PASI-G
4019402035	SPRW-301-F	EPA 8260	SMT	37	PASI-G
4019402036	SPRW-401-A	EPA 8260	SMT	37	PASI-G
4019402037	SPRW-401-B	EPA 8260	SMT	37	PASI-G

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SAMPLE ANALYTE COUNT

Project: 71238.40 SANGAMO PLANT SITE
Pace Project No.: 4019402

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
4019402038	**SPRW-401-C**	EPA 8260	SMT	37	PASI-G
4019402039	**SPRW-401-D**	EPA 8260	SMT	37	PASI-G
4019402040	**SPRW-401-E**	EPA 8260	SMT	37	PASI-G
4019402041	**SPRW-401-F**	EPA 8260	SMT	37	PASI-G
4019402042	**TBLK-09201**	EPA 8260	SMT	37	PASI-G

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PROJECT NARRATIVE

Project: 71238.40 SANGAMO PLANT SITE
Pace Project No.: 4019402

Method: EPA 8260
Description: 8260 MSV
Client: RMT - GREENVILLE
Date: July 13, 2009

General Information:
42 samples were analyzed for EPA 8260. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: 71238.40 SANGAMO PLANT SITE
Pace Project No.: 4019402

Sample: SPRW-602-A **Lab ID: 4019402001** Collected: 06/30/09 10:10 Received: 07/02/09 10:05 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Acetone	**<99.8**	ug/L	400	99.8	20		07/07/09 13:23	67-64-1	
Benzene	**<8.2**	ug/L	20.0	8.2	20		07/07/09 13:23	71-43-2	
Bromodichloromethane	**<11.2**	ug/L	20.0	11.2	20		07/07/09 13:23	75-27-4	
Bromoform	**<18.8**	ug/L	20.0	18.8	20		07/07/09 13:23	75-25-2	
Bromomethane	**<18.2**	ug/L	20.0	18.2	20		07/07/09 13:23	74-83-9	
2-Butanone (MEK)	**<86.0**	ug/L	400	86.0	20		07/07/09 13:23	78-93-3	
Carbon disulfide	**<13.2**	ug/L	20.0	13.2	20		07/07/09 13:23	75-15-0	
Carbon tetrachloride	**<9.8**	ug/L	20.0	9.8	20		07/07/09 13:23	56-23-5	
Chlorobenzene	**<8.2**	ug/L	20.0	8.2	20		07/07/09 13:23	108-90-7	
Chloroethane	**<19.4**	ug/L	20.0	19.4	20		07/07/09 13:23	75-00-3	
Chloroform	**<26.0**	ug/L	100	26.0	20		07/07/09 13:23	67-66-3	
Chloromethane	**<4.8**	ug/L	20.0	4.8	20		07/07/09 13:23	74-87-3	
Dibromochloromethane	**<16.2**	ug/L	20.0	16.2	20		07/07/09 13:23	124-48-1	
1,1-Dichloroethane	**<15.0**	ug/L	20.0	15.0	20		07/07/09 13:23	75-34-3	
1,2-Dichloroethane	**<7.2**	ug/L	20.0	7.2	20		07/07/09 13:23	107-06-2	
1,1-Dichloroethene	**<11.4**	ug/L	20.0	11.4	20		07/07/09 13:23	75-35-4	
cis-1,2-Dichloroethene	**<16.6**	ug/L	20.0	16.6	20		07/07/09 13:23	156-59-2	
trans-1,2-Dichloroethene	**<17.8**	ug/L	20.0	17.8	20		07/07/09 13:23	156-60-5	
1,2-Dichloropropane	**<9.8**	ug/L	20.0	9.8	20		07/07/09 13:23	78-87-5	
cis-1,3-Dichloropropene	**<4.0**	ug/L	20.0	4.0	20		07/07/09 13:23	10061-01-5	
trans-1,3-Dichloropropene	**<3.8**	ug/L	20.0	3.8	20		07/07/09 13:23	10061-02-6	
Ethylbenzene	**<10.8**	ug/L	20.0	10.8	20		07/07/09 13:23	100-41-4	
2-Hexanone	**<39.4**	ug/L	100	39.4	20		07/07/09 13:23	591-78-6	
Methylene Chloride	**<8.6**	ug/L	20.0	8.6	20		07/07/09 13:23	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<24.0**	ug/L	100	24.0	20		07/07/09 13:23	108-10-1	
Styrene	**<17.2**	ug/L	20.0	17.2	20		07/07/09 13:23	100-42-5	
1,1,2,2-Tetrachloroethane	**<4.0**	ug/L	20.0	4.0	20		07/07/09 13:23	79-34-5	
Tetrachloroethene	**894**	ug/L	20.0	9.0	20		07/07/09 13:23	127-18-4	
Toluene	**<13.4**	ug/L	20.0	13.4	20		07/07/09 13:23	108-88-3	
1,1,1-Trichloroethane	**<18.0**	ug/L	20.0	18.0	20		07/07/09 13:23	71-55-6	
1,1,2-Trichloroethane	**<8.4**	ug/L	20.0	8.4	20		07/07/09 13:23	79-00-5	
Trichloroethene	**1640**	ug/L	20.0	9.6	20		07/07/09 13:23	79-01-6	
Vinyl chloride	**<3.6**	ug/L	20.0	3.6	20		07/07/09 13:23	75-01-4	
Xylene (Total)	**<52.0**	ug/L	60.0	52.0	20		07/07/09 13:23	1330-20-7	
4-Bromofluorobenzene (S)	91	%	70-130		20		07/07/09 13:23	460-00-4	
Dibromofluoromethane (S)	95	%	70-130		20		07/07/09 13:23	1868-53-7	
Toluene-d8 (S)	94	%	70-130		20		07/07/09 13:23	2037-26-5	

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ANALYTICAL RESULTS

Project: 71238.40 SANGAMO PLANT SITE
Pace Project No.: 4019402

Sample: SPRW-602-B **Lab ID: 4019402002** Collected: 06/30/09 10:20 Received: 07/02/09 10:05 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Acetone	**<99.8**	ug/L	400	99.8	20		07/07/09 13:46	67-64-1	
Benzene	**<8.2**	ug/L	20.0	8.2	20		07/07/09 13:46	71-43-2	
Bromodichloromethane	**<11.2**	ug/L	20.0	11.2	20		07/07/09 13:46	75-27-4	
Bromoform	**<18.8**	ug/L	20.0	18.8	20		07/07/09 13:46	75-25-2	
Bromomethane	**<18.2**	ug/L	20.0	18.2	20		07/07/09 13:46	74-83-9	
2-Butanone (MEK)	**<86.0**	ug/L	400	86.0	20		07/07/09 13:46	78-93-3	
Carbon disulfide	**<13.2**	ug/L	20.0	13.2	20		07/07/09 13:46	75-15-0	
Carbon tetrachloride	**<9.8**	ug/L	20.0	9.8	20		07/07/09 13:46	56-23-5	
Chlorobenzene	**<8.2**	ug/L	20.0	8.2	20		07/07/09 13:46	108-90-7	
Chloroethane	**<19.4**	ug/L	20.0	19.4	20		07/07/09 13:46	75-00-3	
Chloroform	**<26.0**	ug/L	100	26.0	20		07/07/09 13:46	67-66-3	
Chloromethane	**<4.8**	ug/L	20.0	4.8	20		07/07/09 13:46	74-87-3	
Dibromochloromethane	**<16.2**	ug/L	20.0	16.2	20		07/07/09 13:46	124-48-1	
1,1-Dichloroethane	**<15.0**	ug/L	20.0	15.0	20		07/07/09 13:46	75-34-3	
1,2-Dichloroethane	**<7.2**	ug/L	20.0	7.2	20		07/07/09 13:46	107-06-2	
1,1-Dichloroethene	**<11.4**	ug/L	20.0	11.4	20		07/07/09 13:46	75-35-4	
cis-1,2-Dichloroethene	**<16.6**	ug/L	20.0	16.6	20		07/07/09 13:46	156-59-2	
trans-1,2-Dichloroethene	**<17.8**	ug/L	20.0	17.8	20		07/07/09 13:46	156-60-5	
1,2-Dichloropropane	**<9.8**	ug/L	20.0	9.8	20		07/07/09 13:46	78-87-5	
cis-1,3-Dichloropropene	**<4.0**	ug/L	20.0	4.0	20		07/07/09 13:46	10061-01-5	
trans-1,3-Dichloropropene	**<3.8**	ug/L	20.0	3.8	20		07/07/09 13:46	10061-02-6	
Ethylbenzene	**<10.8**	ug/L	20.0	10.8	20		07/07/09 13:46	100-41-4	
2-Hexanone	**<39.4**	ug/L	100	39.4	20		07/07/09 13:46	591-78-6	
Methylene Chloride	**<8.6**	ug/L	20.0	8.6	20		07/07/09 13:46	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<24.0**	ug/L	100	24.0	20		07/07/09 13:46	108-10-1	
Styrene	**<17.2**	ug/L	20.0	17.2	20		07/07/09 13:46	100-42-5	
1,1,2,2-Tetrachloroethane	**<4.0**	ug/L	20.0	4.0	20		07/07/09 13:46	79-34-5	
Tetrachloroethene	**1030**	ug/L	20.0	9.0	20		07/07/09 13:46	127-18-4	
Toluene	**<13.4**	ug/L	20.0	13.4	20		07/07/09 13:46	108-88-3	
1,1,1-Trichloroethane	**<18.0**	ug/L	20.0	18.0	20		07/07/09 13:46	71-55-6	
1,1,2-Trichloroethane	**<8.4**	ug/L	20.0	8.4	20		07/07/09 13:46	79-00-5	
Trichloroethene	**1630**	ug/L	20.0	9.6	20		07/07/09 13:46	79-01-6	
Vinyl chloride	**<3.6**	ug/L	20.0	3.6	20		07/07/09 13:46	75-01-4	
Xylene (Total)	**<52.0**	ug/L	60.0	52.0	20		07/07/09 13:46	1330-20-7	
4-Bromofluorobenzene (S)	91	%	70-130		20		07/07/09 13:46	460-00-4	
Dibromofluoromethane (S)	95	%	70-130		20		07/07/09 13:46	1868-53-7	
Toluene-d8 (S)	95	%	70-130		20		07/07/09 13:46	2037-26-5	

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ANALYTICAL RESULTS

Project: 71238.40 SANGAMO PLANT SITE
Pace Project No.: 4019402

Sample: SPRW-602-C **Lab ID: 4019402003** Collected: 06/30/09 10:30 Received: 07/02/09 10:05 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Acetone	**<99.8**	ug/L	400	99.8	20		07/06/09 13:19	67-64-1	
Benzene	**<8.2**	ug/L	20.0	8.2	20		07/06/09 13:19	71-43-2	
Bromodichloromethane	**<11.2**	ug/L	20.0	11.2	20		07/06/09 13:19	75-27-4	
Bromoform	**<18.8**	ug/L	20.0	18.8	20		07/06/09 13:19	75-25-2	
Bromomethane	**<18.2**	ug/L	20.0	18.2	20		07/06/09 13:19	74-83-9	
2-Butanone (MEK)	**<86.0**	ug/L	400	86.0	20		07/06/09 13:19	78-93-3	
Carbon disulfide	**<13.2**	ug/L	20.0	13.2	20		07/06/09 13:19	75-15-0	
Carbon tetrachloride	**<9.8**	ug/L	20.0	9.8	20		07/06/09 13:19	56-23-5	
Chlorobenzene	**<8.2**	ug/L	20.0	8.2	20		07/06/09 13:19	108-90-7	
Chloroethane	**<19.4**	ug/L	20.0	19.4	20		07/06/09 13:19	75-00-3	
Chloroform	**<26.0**	ug/L	100	26.0	20		07/06/09 13:19	67-66-3	
Chloromethane	**<4.8**	ug/L	20.0	4.8	20		07/06/09 13:19	74-87-3	
Dibromochloromethane	**<16.2**	ug/L	20.0	16.2	20		07/06/09 13:19	124-48-1	
1,1-Dichloroethane	**<15.0**	ug/L	20.0	15.0	20		07/06/09 13:19	75-34-3	
1,2-Dichloroethane	**<7.2**	ug/L	20.0	7.2	20		07/06/09 13:19	107-06-2	
1,1-Dichloroethene	**<11.4**	ug/L	20.0	11.4	20		07/06/09 13:19	75-35-4	
cis-1,2-Dichloroethene	**<16.6**	ug/L	20.0	16.6	20		07/06/09 13:19	156-59-2	
trans-1,2-Dichloroethene	**<17.8**	ug/L	20.0	17.8	20		07/06/09 13:19	156-60-5	
1,2-Dichloropropane	**<9.8**	ug/L	20.0	9.8	20		07/06/09 13:19	78-87-5	
cis-1,3-Dichloropropene	**<4.0**	ug/L	20.0	4.0	20		07/06/09 13:19	10061-01-5	
trans-1,3-Dichloropropene	**<3.8**	ug/L	20.0	3.8	20		07/06/09 13:19	10061-02-6	
Ethylbenzene	**<10.8**	ug/L	20.0	10.8	20		07/06/09 13:19	100-41-4	
2-Hexanone	**<39.4**	ug/L	100	39.4	20		07/06/09 13:19	591-78-6	
Methylene Chloride	**<8.6**	ug/L	20.0	8.6	20		07/06/09 13:19	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<24.0**	ug/L	100	24.0	20		07/06/09 13:19	108-10-1	
Styrene	**<17.2**	ug/L	20.0	17.2	20		07/06/09 13:19	100-42-5	
1,1,2,2-Tetrachloroethane	**<4.0**	ug/L	20.0	4.0	20		07/06/09 13:19	79-34-5	
Tetrachloroethene	**1080**	ug/L	20.0	9.0	20		07/06/09 13:19	127-18-4	
Toluene	**<13.4**	ug/L	20.0	13.4	20		07/06/09 13:19	108-88-3	
1,1,1-Trichloroethane	**<18.0**	ug/L	20.0	18.0	20		07/06/09 13:19	71-55-6	
1,1,2-Trichloroethane	**<8.4**	ug/L	20.0	8.4	20		07/06/09 13:19	79-00-5	
Trichloroethene	**1710**	ug/L	20.0	9.6	20		07/06/09 13:19	79-01-6	
Vinyl chloride	**<3.6**	ug/L	20.0	3.6	20		07/06/09 13:19	75-01-4	
Xylene (Total)	**<52.0**	ug/L	60.0	52.0	20		07/06/09 13:19	1330-20-7	
4-Bromofluorobenzene (S)	93	%	70-130		20		07/06/09 13:19	460-00-4	
Dibromofluoromethane (S)	93	%	70-130		20		07/06/09 13:19	1868-53-7	
Toluene-d8 (S)	95	%	70-130		20		07/06/09 13:19	2037-26-5	

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ANALYTICAL RESULTS

Project: 71238.40 SANGAMO PLANT SITE
Pace Project No.: 4019402

Sample: SPRW-602-D **Lab ID: 4019402004** Collected: 06/30/09 10:40 Received: 07/02/09 10:05 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Acetone	**<99.8**	ug/L	400	99.8	20		07/06/09 13:42	67-64-1	
Benzene	**<8.2**	ug/L	20.0	8.2	20		07/06/09 13:42	71-43-2	
Bromodichloromethane	**<11.2**	ug/L	20.0	11.2	20		07/06/09 13:42	75-27-4	
Bromoform	**<18.8**	ug/L	20.0	18.8	20		07/06/09 13:42	75-25-2	
Bromomethane	**<18.2**	ug/L	20.0	18.2	20		07/06/09 13:42	74-83-9	
2-Butanone (MEK)	**<86.0**	ug/L	400	86.0	20		07/06/09 13:42	78-93-3	
Carbon disulfide	**<13.2**	ug/L	20.0	13.2	20		07/06/09 13:42	75-15-0	
Carbon tetrachloride	**<9.8**	ug/L	20.0	9.8	20		07/06/09 13:42	56-23-5	
Chlorobenzene	**<8.2**	ug/L	20.0	8.2	20		07/06/09 13:42	108-90-7	
Chloroethane	**<19.4**	ug/L	20.0	19.4	20		07/06/09 13:42	75-00-3	
Chloroform	**<26.0**	ug/L	100	26.0	20		07/06/09 13:42	67-66-3	
Chloromethane	**<4.8**	ug/L	20.0	4.8	20		07/06/09 13:42	74-87-3	
Dibromochloromethane	**<16.2**	ug/L	20.0	16.2	20		07/06/09 13:42	124-48-1	
1,1-Dichloroethane	**<15.0**	ug/L	20.0	15.0	20		07/06/09 13:42	75-34-3	
1,2-Dichloroethane	**<7.2**	ug/L	20.0	7.2	20		07/06/09 13:42	107-06-2	
1,1-Dichloroethene	**<11.4**	ug/L	20.0	11.4	20		07/06/09 13:42	75-35-4	
cis-1,2-Dichloroethene	**<16.6**	ug/L	20.0	16.6	20		07/06/09 13:42	156-59-2	
trans-1,2-Dichloroethene	**<17.8**	ug/L	20.0	17.8	20		07/06/09 13:42	156-60-5	
1,2-Dichloropropane	**<9.8**	ug/L	20.0	9.8	20		07/06/09 13:42	78-87-5	
cis-1,3-Dichloropropene	**<4.0**	ug/L	20.0	4.0	20		07/06/09 13:42	10061-01-5	
trans-1,3-Dichloropropene	**<3.8**	ug/L	20.0	3.8	20		07/06/09 13:42	10061-02-6	
Ethylbenzene	**<10.8**	ug/L	20.0	10.8	20		07/06/09 13:42	100-41-4	
2-Hexanone	**<39.4**	ug/L	100	39.4	20		07/06/09 13:42	591-78-6	
Methylene Chloride	**<8.6**	ug/L	20.0	8.6	20		07/06/09 13:42	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<24.0**	ug/L	100	24.0	20		07/06/09 13:42	108-10-1	
Styrene	**<17.2**	ug/L	20.0	17.2	20		07/06/09 13:42	100-42-5	
1,1,2,2-Tetrachloroethane	**<4.0**	ug/L	20.0	4.0	20		07/06/09 13:42	79-34-5	
Tetrachloroethene	**1010**	ug/L	20.0	9.0	20		07/06/09 13:42	127-18-4	
Toluene	**<13.4**	ug/L	20.0	13.4	20		07/06/09 13:42	108-88-3	
1,1,1-Trichloroethane	**<18.0**	ug/L	20.0	18.0	20		07/06/09 13:42	71-55-6	
1,1,2-Trichloroethane	**<8.4**	ug/L	20.0	8.4	20		07/06/09 13:42	79-00-5	
Trichloroethene	**1680**	ug/L	20.0	9.6	20		07/06/09 13:42	79-01-6	
Vinyl chloride	**<3.6**	ug/L	20.0	3.6	20		07/06/09 13:42	75-01-4	
Xylene (Total)	**<52.0**	ug/L	60.0	52.0	20		07/06/09 13:42	1330-20-7	
4-Bromofluorobenzene (S)	93	%	70-130		20		07/06/09 13:42	460-00-4	
Dibromofluoromethane (S)	90	%	70-130		20		07/06/09 13:42	1868-53-7	
Toluene-d8 (S)	95	%	70-130		20		07/06/09 13:42	2037-26-5	

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ANALYTICAL RESULTS

Project: 71238.40 SANGAMO PLANT SITE
Pace Project No.: 4019402

Sample: SPRW-602-E **Lab ID: 4019402005** Collected: 06/30/09 10:50 Received: 07/02/09 10:05 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Acetone	**<99.8**	ug/L	400	99.8	20		07/06/09 14:05	67-64-1	
Benzene	**<8.2**	ug/L	20.0	8.2	20		07/06/09 14:05	71-43-2	
Bromodichloromethane	**<11.2**	ug/L	20.0	11.2	20		07/06/09 14:05	75-27-4	
Bromoform	**<18.8**	ug/L	20.0	18.8	20		07/06/09 14:05	75-25-2	
Bromomethane	**<18.2**	ug/L	20.0	18.2	20		07/06/09 14:05	74-83-9	
2-Butanone (MEK)	**<86.0**	ug/L	400	86.0	20		07/06/09 14:05	78-93-3	
Carbon disulfide	**<13.2**	ug/L	20.0	13.2	20		07/06/09 14:05	75-15-0	
Carbon tetrachloride	**<9.8**	ug/L	20.0	9.8	20		07/06/09 14:05	56-23-5	
Chlorobenzene	**<8.2**	ug/L	20.0	8.2	20		07/06/09 14:05	108-90-7	
Chloroethane	**<19.4**	ug/L	20.0	19.4	20		07/06/09 14:05	75-00-3	
Chloroform	**<26.0**	ug/L	100	26.0	20		07/06/09 14:05	67-66-3	
Chloromethane	**<4.8**	ug/L	20.0	4.8	20		07/06/09 14:05	74-87-3	
Dibromochloromethane	**<16.2**	ug/L	20.0	16.2	20		07/06/09 14:05	124-48-1	
1,1-Dichloroethane	**<15.0**	ug/L	20.0	15.0	20		07/06/09 14:05	75-34-3	
1,2-Dichloroethane	**<7.2**	ug/L	20.0	7.2	20		07/06/09 14:05	107-06-2	
1,1-Dichloroethene	**<11.4**	ug/L	20.0	11.4	20		07/06/09 14:05	75-35-4	
cis-1,2-Dichloroethene	**17.8J**	ug/L	20.0	16.6	20		07/06/09 14:05	156-59-2	
trans-1,2-Dichloroethene	**<17.8**	ug/L	20.0	17.8	20		07/06/09 14:05	156-60-5	
1,2-Dichloropropane	**<9.8**	ug/L	20.0	9.8	20		07/06/09 14:05	78-87-5	
cis-1,3-Dichloropropene	**<4.0**	ug/L	20.0	4.0	20		07/06/09 14:05	10061-01-5	
trans-1,3-Dichloropropene	**<3.8**	ug/L	20.0	3.8	20		07/06/09 14:05	10061-02-6	
Ethylbenzene	**<10.8**	ug/L	20.0	10.8	20		07/06/09 14:05	100-41-4	
2-Hexanone	**<39.4**	ug/L	100	39.4	20		07/06/09 14:05	591-78-6	
Methylene Chloride	**<8.6**	ug/L	20.0	8.6	20		07/06/09 14:05	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<24.0**	ug/L	100	24.0	20		07/06/09 14:05	108-10-1	
Styrene	**<17.2**	ug/L	20.0	17.2	20		07/06/09 14:05	100-42-5	
1,1,2,2-Tetrachloroethane	**<4.0**	ug/L	20.0	4.0	20		07/06/09 14:05	79-34-5	
Tetrachloroethene	**1050**	ug/L	20.0	9.0	20		07/06/09 14:05	127-18-4	
Toluene	**<13.4**	ug/L	20.0	13.4	20		07/06/09 14:05	108-88-3	
1,1,1-Trichloroethane	**<18.0**	ug/L	20.0	18.0	20		07/06/09 14:05	71-55-6	
1,1,2-Trichloroethane	**<8.4**	ug/L	20.0	8.4	20		07/06/09 14:05	79-00-5	
Trichloroethene	**1720**	ug/L	20.0	9.6	20		07/06/09 14:05	79-01-6	
Vinyl chloride	**<3.6**	ug/L	20.0	3.6	20		07/06/09 14:05	75-01-4	
Xylene (Total)	**<52.0**	ug/L	60.0	52.0	20		07/06/09 14:05	1330-20-7	
4-Bromofluorobenzene (S)	95	%	70-130		20		07/06/09 14:05	460-00-4	
Dibromofluoromethane (S)	95	%	70-130		20		07/06/09 14:05	1868-53-7	
Toluene-d8 (S)	96	%	70-130		20		07/06/09 14:05	2037-26-5	

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ANALYTICAL RESULTS

Project: 71238.40 SANGAMO PLANT SITE
Pace Project No.: 4019402

Sample: SPRW-602-F **Lab ID: 4019402006** Collected: 06/30/09 11:00 Received: 07/02/09 10:05 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Acetone	**<99.8**	ug/L	400	99.8	20		07/06/09 12:19	67-64-1	
Benzene	**<8.2**	ug/L	20.0	8.2	20		07/06/09 12:19	71-43-2	
Bromodichloromethane	**<11.2**	ug/L	20.0	11.2	20		07/06/09 12:19	75-27-4	
Bromoform	**<18.8**	ug/L	20.0	18.8	20		07/06/09 12:19	75-25-2	
Bromomethane	**<18.2**	ug/L	20.0	18.2	20		07/06/09 12:19	74-83-9	
2-Butanone (MEK)	**<86.0**	ug/L	400	86.0	20		07/06/09 12:19	78-93-3	
Carbon disulfide	**<13.2**	ug/L	20.0	13.2	20		07/06/09 12:19	75-15-0	
Carbon tetrachloride	**<9.8**	ug/L	20.0	9.8	20		07/06/09 12:19	56-23-5	
Chlorobenzene	**<8.2**	ug/L	20.0	8.2	20		07/06/09 12:19	108-90-7	
Chloroethane	**<19.4**	ug/L	20.0	19.4	20		07/06/09 12:19	75-00-3	
Chloroform	**<26.0**	ug/L	100	26.0	20		07/06/09 12:19	67-66-3	
Chloromethane	**<4.8**	ug/L	20.0	4.8	20		07/06/09 12:19	74-87-3	
Dibromochloromethane	**<16.2**	ug/L	20.0	16.2	20		07/06/09 12:19	124-48-1	
1,1-Dichloroethane	**<15.0**	ug/L	20.0	15.0	20		07/06/09 12:19	75-34-3	
1,2-Dichloroethane	**<7.2**	ug/L	20.0	7.2	20		07/06/09 12:19	107-06-2	
1,1-Dichloroethene	**<11.4**	ug/L	20.0	11.4	20		07/06/09 12:19	75-35-4	
cis-1,2-Dichloroethene	**20.7**	ug/L	20.0	16.6	20		07/06/09 12:19	156-59-2	
trans-1,2-Dichloroethene	**<17.8**	ug/L	20.0	17.8	20		07/06/09 12:19	156-60-5	
1,2-Dichloropropane	**<9.8**	ug/L	20.0	9.8	20		07/06/09 12:19	78-87-5	
cis-1,3-Dichloropropene	**<4.0**	ug/L	20.0	4.0	20		07/06/09 12:19	10061-01-5	
trans-1,3-Dichloropropene	**<3.8**	ug/L	20.0	3.8	20		07/06/09 12:19	10061-02-6	
Ethylbenzene	**<10.8**	ug/L	20.0	10.8	20		07/06/09 12:19	100-41-4	
2-Hexanone	**<39.4**	ug/L	100	39.4	20		07/06/09 12:19	591-78-6	
Methylene Chloride	**<8.6**	ug/L	20.0	8.6	20		07/06/09 12:19	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<24.0**	ug/L	100	24.0	20		07/06/09 12:19	108-10-1	
Styrene	**<17.2**	ug/L	20.0	17.2	20		07/06/09 12:19	100-42-5	
1,1,2,2-Tetrachloroethane	**<4.0**	ug/L	20.0	4.0	20		07/06/09 12:19	79-34-5	
Tetrachloroethene	**970**	ug/L	20.0	9.0	20		07/06/09 12:19	127-18-4	
Toluene	**<13.4**	ug/L	20.0	13.4	20		07/06/09 12:19	108-88-3	
1,1,1-Trichloroethane	**<18.0**	ug/L	20.0	18.0	20		07/06/09 12:19	71-55-6	
1,1,2-Trichloroethane	**<8.4**	ug/L	20.0	8.4	20		07/06/09 12:19	79-00-5	
Trichloroethene	**1570**	ug/L	20.0	9.6	20		07/06/09 12:19	79-01-6	
Vinyl chloride	**<3.6**	ug/L	20.0	3.6	20		07/06/09 12:19	75-01-4	
Xylene (Total)	**<52.0**	ug/L	60.0	52.0	20		07/06/09 12:19	1330-20-7	
4-Bromofluorobenzene (S)	95	%	70-130		20		07/06/09 12:19	460-00-4	
Dibromofluoromethane (S)	96	%	70-130		20		07/06/09 12:19	1868-53-7	
Toluene-d8 (S)	96	%	70-130		20		07/06/09 12:19	2037-26-5	

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ANALYTICAL RESULTS

Project: 71238.40 SANGAMO PLANT SITE
Pace Project No.: 4019402

Sample: SPRW-602-G **Lab ID: 4019402007** Collected: 06/30/09 11:10 Received: 07/02/09 10:05 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Acetone	**<99.8**	ug/L	400	99.8	20		07/06/09 14:28	67-64-1	
Benzene	**<8.2**	ug/L	20.0	8.2	20		07/06/09 14:28	71-43-2	
Bromodichloromethane	**<11.2**	ug/L	20.0	11.2	20		07/06/09 14:28	75-27-4	
Bromoform	**<18.8**	ug/L	20.0	18.8	20		07/06/09 14:28	75-25-2	
Bromomethane	**<18.2**	ug/L	20.0	18.2	20		07/06/09 14:28	74-83-9	
2-Butanone (MEK)	**<86.0**	ug/L	400	86.0	20		07/06/09 14:28	78-93-3	
Carbon disulfide	**<13.2**	ug/L	20.0	13.2	20		07/06/09 14:28	75-15-0	
Carbon tetrachloride	**<9.8**	ug/L	20.0	9.8	20		07/06/09 14:28	56-23-5	
Chlorobenzene	**<8.2**	ug/L	20.0	8.2	20		07/06/09 14:28	108-90-7	
Chloroethane	**<19.4**	ug/L	20.0	19.4	20		07/06/09 14:28	75-00-3	
Chloroform	**<26.0**	ug/L	100	26.0	20		07/06/09 14:28	67-66-3	
Chloromethane	**<4.8**	ug/L	20.0	4.8	20		07/06/09 14:28	74-87-3	
Dibromochloromethane	**<16.2**	ug/L	20.0	16.2	20		07/06/09 14:28	124-48-1	
1,1-Dichloroethane	**<15.0**	ug/L	20.0	15.0	20		07/06/09 14:28	75-34-3	
1,2-Dichloroethane	**<7.2**	ug/L	20.0	7.2	20		07/06/09 14:28	107-06-2	
1,1-Dichloroethene	**<11.4**	ug/L	20.0	11.4	20		07/06/09 14:28	75-35-4	
cis-1,2-Dichloroethene	**18.5J**	ug/L	20.0	16.6	20		07/06/09 14:28	156-59-2	
trans-1,2-Dichloroethene	**<17.8**	ug/L	20.0	17.8	20		07/06/09 14:28	156-60-5	
1,2-Dichloropropane	**<9.8**	ug/L	20.0	9.8	20		07/06/09 14:28	78-87-5	
cis-1,3-Dichloropropene	**<4.0**	ug/L	20.0	4.0	20		07/06/09 14:28	10061-01-5	
trans-1,3-Dichloropropene	**<3.8**	ug/L	20.0	3.8	20		07/06/09 14:28	10061-02-6	
Ethylbenzene	**<10.8**	ug/L	20.0	10.8	20		07/06/09 14:28	100-41-4	
2-Hexanone	**<39.4**	ug/L	100	39.4	20		07/06/09 14:28	591-78-6	
Methylene Chloride	**<8.6**	ug/L	20.0	8.6	20		07/06/09 14:28	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<24.0**	ug/L	100	24.0	20		07/06/09 14:28	108-10-1	
Styrene	**<17.2**	ug/L	20.0	17.2	20		07/06/09 14:28	100-42-5	
1,1,2,2-Tetrachloroethane	**<4.0**	ug/L	20.0	4.0	20		07/06/09 14:28	79-34-5	
Tetrachloroethene	**987**	ug/L	20.0	9.0	20		07/06/09 14:28	127-18-4	
Toluene	**<13.4**	ug/L	20.0	13.4	20		07/06/09 14:28	108-88-3	
1,1,1-Trichloroethane	**<18.0**	ug/L	20.0	18.0	20		07/06/09 14:28	71-55-6	
1,1,2-Trichloroethane	**<8.4**	ug/L	20.0	8.4	20		07/06/09 14:28	79-00-5	
Trichloroethene	**1630**	ug/L	20.0	9.6	20		07/06/09 14:28	79-01-6	
Vinyl chloride	**<3.6**	ug/L	20.0	3.6	20		07/06/09 14:28	75-01-4	
Xylene (Total)	**<52.0**	ug/L	60.0	52.0	20		07/06/09 14:28	1330-20-7	
4-Bromofluorobenzene (S)	92	%	70-130		20		07/06/09 14:28	460-00-4	
Dibromofluoromethane (S)	95	%	70-130		20		07/06/09 14:28	1868-53-7	
Toluene-d8 (S)	94	%	70-130		20		07/06/09 14:28	2037-26-5	

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ANALYTICAL RESULTS

Project: 71238.40 SANGAMO PLANT SITE
Pace Project No.: 4019402

Sample: SPRW-602-H **Lab ID: 4019402008** Collected: 06/30/09 11:20 Received: 07/02/09 10:05 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Acetone	**<99.8**	ug/L	400	99.8	20		07/06/09 14:52	67-64-1	
Benzene	**<8.2**	ug/L	20.0	8.2	20		07/06/09 14:52	71-43-2	
Bromodichloromethane	**<11.2**	ug/L	20.0	11.2	20		07/06/09 14:52	75-27-4	
Bromoform	**<18.8**	ug/L	20.0	18.8	20		07/06/09 14:52	75-25-2	
Bromomethane	**<18.2**	ug/L	20.0	18.2	20		07/06/09 14:52	74-83-9	
2-Butanone (MEK)	**<86.0**	ug/L	400	86.0	20		07/06/09 14:52	78-93-3	
Carbon disulfide	**<13.2**	ug/L	20.0	13.2	20		07/06/09 14:52	75-15-0	
Carbon tetrachloride	**<9.8**	ug/L	20.0	9.8	20		07/06/09 14:52	56-23-5	
Chlorobenzene	**<8.2**	ug/L	20.0	8.2	20		07/06/09 14:52	108-90-7	
Chloroethane	**<19.4**	ug/L	20.0	19.4	20		07/06/09 14:52	75-00-3	
Chloroform	**<26.0**	ug/L	100	26.0	20		07/06/09 14:52	67-66-3	
Chloromethane	**<4.8**	ug/L	20.0	4.8	20		07/06/09 14:52	74-87-3	
Dibromochloromethane	**<16.2**	ug/L	20.0	16.2	20		07/06/09 14:52	124-48-1	
1,1-Dichloroethane	**<15.0**	ug/L	20.0	15.0	20		07/06/09 14:52	75-34-3	
1,2-Dichloroethane	**<7.2**	ug/L	20.0	7.2	20		07/06/09 14:52	107-06-2	
1,1-Dichloroethene	**<11.4**	ug/L	20.0	11.4	20		07/06/09 14:52	75-35-4	
cis-1,2-Dichloroethene	**18.2J**	ug/L	20.0	16.6	20		07/06/09 14:52	156-59-2	
trans-1,2-Dichloroethene	**<17.8**	ug/L	20.0	17.8	20		07/06/09 14:52	156-60-5	
1,2-Dichloropropane	**<9.8**	ug/L	20.0	9.8	20		07/06/09 14:52	78-87-5	
cis-1,3-Dichloropropene	**<4.0**	ug/L	20.0	4.0	20		07/06/09 14:52	10061-01-5	
trans-1,3-Dichloropropene	**<3.8**	ug/L	20.0	3.8	20		07/06/09 14:52	10061-02-6	
Ethylbenzene	**<10.8**	ug/L	20.0	10.8	20		07/06/09 14:52	100-41-4	
2-Hexanone	**<39.4**	ug/L	100	39.4	20		07/06/09 14:52	591-78-6	
Methylene Chloride	**<8.6**	ug/L	20.0	8.6	20		07/06/09 14:52	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<24.0**	ug/L	100	24.0	20		07/06/09 14:52	108-10-1	
Styrene	**<17.2**	ug/L	20.0	17.2	20		07/06/09 14:52	100-42-5	
1,1,2,2-Tetrachloroethane	**<4.0**	ug/L	20.0	4.0	20		07/06/09 14:52	79-34-5	
Tetrachloroethene	**997**	ug/L	20.0	9.0	20		07/06/09 14:52	127-18-4	
Toluene	**<13.4**	ug/L	20.0	13.4	20		07/06/09 14:52	108-88-3	
1,1,1-Trichloroethane	**<18.0**	ug/L	20.0	18.0	20		07/06/09 14:52	71-55-6	
1,1,2-Trichloroethane	**<8.4**	ug/L	20.0	8.4	20		07/06/09 14:52	79-00-5	
Trichloroethene	**1590**	ug/L	20.0	9.6	20		07/06/09 14:52	79-01-6	
Vinyl chloride	**<3.6**	ug/L	20.0	3.6	20		07/06/09 14:52	75-01-4	
Xylene (Total)	**<52.0**	ug/L	60.0	52.0	20		07/06/09 14:52	1330-20-7	
4-Bromofluorobenzene (S)	93	%	70-130		20		07/06/09 14:52	460-00-4	
Dibromofluoromethane (S)	93	%	70-130		20		07/06/09 14:52	1868-53-7	
Toluene-d8 (S)	95	%	70-130		20		07/06/09 14:52	2037-26-5	

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ANALYTICAL RESULTS

Project: 71238.40 SANGAMO PLANT SITE
Pace Project No.: 4019402

Sample: SPRW-602-I **Lab ID: 4019402009** Collected: 06/30/09 11:30 Received: 07/02/09 10:05 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Acetone	**<99.8**	ug/L	400	99.8	20		07/06/09 12:45	67-64-1	
Benzene	**<8.2**	ug/L	20.0	8.2	20		07/06/09 12:45	71-43-2	
Bromodichloromethane	**<11.2**	ug/L	20.0	11.2	20		07/06/09 12:45	75-27-4	
Bromoform	**<18.8**	ug/L	20.0	18.8	20		07/06/09 12:45	75-25-2	
Bromomethane	**<18.2**	ug/L	20.0	18.2	20		07/06/09 12:45	74-83-9	
2-Butanone (MEK)	**<86.0**	ug/L	400	86.0	20		07/06/09 12:45	78-93-3	
Carbon disulfide	**<13.2**	ug/L	20.0	13.2	20		07/06/09 12:45	75-15-0	
Carbon tetrachloride	**<9.8**	ug/L	20.0	9.8	20		07/06/09 12:45	56-23-5	
Chlorobenzene	**<8.2**	ug/L	20.0	8.2	20		07/06/09 12:45	108-90-7	
Chloroethane	**<19.4**	ug/L	20.0	19.4	20		07/06/09 12:45	75-00-3	
Chloroform	**<26.0**	ug/L	100	26.0	20		07/06/09 12:45	67-66-3	
Chloromethane	**<4.8**	ug/L	20.0	4.8	20		07/06/09 12:45	74-87-3	
Dibromochloromethane	**<16.2**	ug/L	20.0	16.2	20		07/06/09 12:45	124-48-1	
1,1-Dichloroethane	**<15.0**	ug/L	20.0	15.0	20		07/06/09 12:45	75-34-3	
1,2-Dichloroethane	**<7.2**	ug/L	20.0	7.2	20		07/06/09 12:45	107-06-2	
1,1-Dichloroethene	**<11.4**	ug/L	20.0	11.4	20		07/06/09 12:45	75-35-4	
cis-1,2-Dichloroethene	**18.7J**	ug/L	20.0	16.6	20		07/06/09 12:45	156-59-2	
trans-1,2-Dichloroethene	**<17.8**	ug/L	20.0	17.8	20		07/06/09 12:45	156-60-5	
1,2-Dichloropropane	**<9.8**	ug/L	20.0	9.8	20		07/06/09 12:45	78-87-5	
cis-1,3-Dichloropropene	**<4.0**	ug/L	20.0	4.0	20		07/06/09 12:45	10061-01-5	
trans-1,3-Dichloropropene	**<3.8**	ug/L	20.0	3.8	20		07/06/09 12:45	10061-02-6	
Ethylbenzene	**<10.8**	ug/L	20.0	10.8	20		07/06/09 12:45	100-41-4	
2-Hexanone	**<39.4**	ug/L	100	39.4	20		07/06/09 12:45	591-78-6	
Methylene Chloride	**<8.6**	ug/L	20.0	8.6	20		07/06/09 12:45	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<24.0**	ug/L	100	24.0	20		07/06/09 12:45	108-10-1	
Styrene	**<17.2**	ug/L	20.0	17.2	20		07/06/09 12:45	100-42-5	
1,1,2,2-Tetrachloroethane	**<4.0**	ug/L	20.0	4.0	20		07/06/09 12:45	79-34-5	
Tetrachloroethene	**982**	ug/L	20.0	9.0	20		07/06/09 12:45	127-18-4	
Toluene	**<13.4**	ug/L	20.0	13.4	20		07/06/09 12:45	108-88-3	
1,1,1-Trichloroethane	**<18.0**	ug/L	20.0	18.0	20		07/06/09 12:45	71-55-6	
1,1,2-Trichloroethane	**<8.4**	ug/L	20.0	8.4	20		07/06/09 12:45	79-00-5	
Trichloroethene	**1580**	ug/L	20.0	9.6	20		07/06/09 12:45	79-01-6	
Vinyl chloride	**<3.6**	ug/L	20.0	3.6	20		07/06/09 12:45	75-01-4	
Xylene (Total)	**<52.0**	ug/L	60.0	52.0	20		07/06/09 12:45	1330-20-7	
4-Bromofluorobenzene (S)	93	%	70-130		20		07/06/09 12:45	460-00-4	
Dibromofluoromethane (S)	95	%	70-130		20		07/06/09 12:45	1868-53-7	
Toluene-d8 (S)	93	%	70-130		20		07/06/09 12:45	2037-26-5	

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ANALYTICAL RESULTS

Project: 71238.40 SANGAMO PLANT SITE
Pace Project No.: 4019402

Sample: SPRW-602-J **Lab ID: 4019402010** Collected: 06/30/09 11:40 Received: 07/02/09 10:05 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Acetone	**<99.8**	ug/L	400	99.8	20		07/06/09 15:15	67-64-1	
Benzene	**<8.2**	ug/L	20.0	8.2	20		07/06/09 15:15	71-43-2	
Bromodichloromethane	**<11.2**	ug/L	20.0	11.2	20		07/06/09 15:15	75-27-4	
Bromoform	**<18.8**	ug/L	20.0	18.8	20		07/06/09 15:15	75-25-2	
Bromomethane	**<18.2**	ug/L	20.0	18.2	20		07/06/09 15:15	74-83-9	
2-Butanone (MEK)	**<86.0**	ug/L	400	86.0	20		07/06/09 15:15	78-93-3	
Carbon disulfide	**<13.2**	ug/L	20.0	13.2	20		07/06/09 15:15	75-15-0	
Carbon tetrachloride	**<9.8**	ug/L	20.0	9.8	20		07/06/09 15:15	56-23-5	
Chlorobenzene	**<8.2**	ug/L	20.0	8.2	20		07/06/09 15:15	108-90-7	
Chloroethane	**<19.4**	ug/L	20.0	19.4	20		07/06/09 15:15	75-00-3	
Chloroform	**<26.0**	ug/L	100	26.0	20		07/06/09 15:15	67-66-3	
Chloromethane	**<4.8**	ug/L	20.0	4.8	20		07/06/09 15:15	74-87-3	
Dibromochloromethane	**<16.2**	ug/L	20.0	16.2	20		07/06/09 15:15	124-48-1	
1,1-Dichloroethane	**<15.0**	ug/L	20.0	15.0	20		07/06/09 15:15	75-34-3	
1,2-Dichloroethane	**<7.2**	ug/L	20.0	7.2	20		07/06/09 15:15	107-06-2	
1,1-Dichloroethene	**<11.4**	ug/L	20.0	11.4	20		07/06/09 15:15	75-35-4	
cis-1,2-Dichloroethene	**20.7**	ug/L	20.0	16.6	20		07/06/09 15:15	156-59-2	
trans-1,2-Dichloroethene	**<17.8**	ug/L	20.0	17.8	20		07/06/09 15:15	156-60-5	
1,2-Dichloropropane	**<9.8**	ug/L	20.0	9.8	20		07/06/09 15:15	78-87-5	
cis-1,3-Dichloropropene	**<4.0**	ug/L	20.0	4.0	20		07/06/09 15:15	10061-01-5	
trans-1,3-Dichloropropene	**<3.8**	ug/L	20.0	3.8	20		07/06/09 15:15	10061-02-6	
Ethylbenzene	**<10.8**	ug/L	20.0	10.8	20		07/06/09 15:15	100-41-4	
2-Hexanone	**<39.4**	ug/L	100	39.4	20		07/06/09 15:15	591-78-6	
Methylene Chloride	**<8.6**	ug/L	20.0	8.6	20		07/06/09 15:15	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<24.0**	ug/L	100	24.0	20		07/06/09 15:15	108-10-1	
Styrene	**<17.2**	ug/L	20.0	17.2	20		07/06/09 15:15	100-42-5	
1,1,2,2-Tetrachloroethane	**<4.0**	ug/L	20.0	4.0	20		07/06/09 15:15	79-34-5	
Tetrachloroethene	**960**	ug/L	20.0	9.0	20		07/06/09 15:15	127-18-4	
Toluene	**<13.4**	ug/L	20.0	13.4	20		07/06/09 15:15	108-88-3	
1,1,1-Trichloroethane	**<18.0**	ug/L	20.0	18.0	20		07/06/09 15:15	71-55-6	
1,1,2-Trichloroethane	**<8.4**	ug/L	20.0	8.4	20		07/06/09 15:15	79-00-5	
Trichloroethene	**1630**	ug/L	20.0	9.6	20		07/06/09 15:15	79-01-6	
Vinyl chloride	**<3.6**	ug/L	20.0	3.6	20		07/06/09 15:15	75-01-4	
Xylene (Total)	**<52.0**	ug/L	60.0	52.0	20		07/06/09 15:15	1330-20-7	
4-Bromofluorobenzene (S)	92	%	70-130		20		07/06/09 15:15	460-00-4	
Dibromofluoromethane (S)	95	%	70-130		20		07/06/09 15:15	1868-53-7	
Toluene-d8 (S)	93	%	70-130		20		07/06/09 15:15	2037-26-5	

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ANALYTICAL RESULTS

Project: 71238.40 SANGAMO PLANT SITE
Pace Project No.: 4019402

Sample: SPRW-602-K **Lab ID: 4019402011** Collected: 06/30/09 11:50 Received: 07/02/09 10:05 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Acetone	**<99.8**	ug/L	400	99.8	20		07/06/09 15:38	67-64-1	
Benzene	**<8.2**	ug/L	20.0	8.2	20		07/06/09 15:38	71-43-2	
Bromodichloromethane	**<11.2**	ug/L	20.0	11.2	20		07/06/09 15:38	75-27-4	
Bromoform	**<18.8**	ug/L	20.0	18.8	20		07/06/09 15:38	75-25-2	
Bromomethane	**<18.2**	ug/L	20.0	18.2	20		07/06/09 15:38	74-83-9	
2-Butanone (MEK)	**<86.0**	ug/L	400	86.0	20		07/06/09 15:38	78-93-3	
Carbon disulfide	**<13.2**	ug/L	20.0	13.2	20		07/06/09 15:38	75-15-0	
Carbon tetrachloride	**<9.8**	ug/L	20.0	9.8	20		07/06/09 15:38	56-23-5	
Chlorobenzene	**<8.2**	ug/L	20.0	8.2	20		07/06/09 15:38	108-90-7	
Chloroethane	**<19.4**	ug/L	20.0	19.4	20		07/06/09 15:38	75-00-3	
Chloroform	**<26.0**	ug/L	100	26.0	20		07/06/09 15:38	67-66-3	
Chloromethane	**<4.8**	ug/L	20.0	4.8	20		07/06/09 15:38	74-87-3	
Dibromochloromethane	**<16.2**	ug/L	20.0	16.2	20		07/06/09 15:38	124-48-1	
1,1-Dichloroethane	**<15.0**	ug/L	20.0	15.0	20		07/06/09 15:38	75-34-3	
1,2-Dichloroethane	**<7.2**	ug/L	20.0	7.2	20		07/06/09 15:38	107-06-2	
1,1-Dichloroethene	**<11.4**	ug/L	20.0	11.4	20		07/06/09 15:38	75-35-4	
cis-1,2-Dichloroethene	**<16.6**	ug/L	20.0	16.6	20		07/06/09 15:38	156-59-2	
trans-1,2-Dichloroethene	**<17.8**	ug/L	20.0	17.8	20		07/06/09 15:38	156-60-5	
1,2-Dichloropropane	**<9.8**	ug/L	20.0	9.8	20		07/06/09 15:38	78-87-5	
cis-1,3-Dichloropropene	**<4.0**	ug/L	20.0	4.0	20		07/06/09 15:38	10061-01-5	
trans-1,3-Dichloropropene	**<3.8**	ug/L	20.0	3.8	20		07/06/09 15:38	10061-02-6	
Ethylbenzene	**<10.8**	ug/L	20.0	10.8	20		07/06/09 15:38	100-41-4	
2-Hexanone	**<39.4**	ug/L	100	39.4	20		07/06/09 15:38	591-78-6	
Methylene Chloride	**<8.6**	ug/L	20.0	8.6	20		07/06/09 15:38	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<24.0**	ug/L	100	24.0	20		07/06/09 15:38	108-10-1	
Styrene	**<17.2**	ug/L	20.0	17.2	20		07/06/09 15:38	100-42-5	
1,1,2,2-Tetrachloroethane	**<4.0**	ug/L	20.0	4.0	20		07/06/09 15:38	79-34-5	
Tetrachloroethene	**1000**	ug/L	20.0	9.0	20		07/06/09 15:38	127-18-4	
Toluene	**<13.4**	ug/L	20.0	13.4	20		07/06/09 15:38	108-88-3	
1,1,1-Trichloroethane	**<18.0**	ug/L	20.0	18.0	20		07/06/09 15:38	71-55-6	
1,1,2-Trichloroethane	**<8.4**	ug/L	20.0	8.4	20		07/06/09 15:38	79-00-5	
Trichloroethene	**1660**	ug/L	20.0	9.6	20		07/06/09 15:38	79-01-6	
Vinyl chloride	**<3.6**	ug/L	20.0	3.6	20		07/06/09 15:38	75-01-4	
Xylene (Total)	**<52.0**	ug/L	60.0	52.0	20		07/06/09 15:38	1330-20-7	
4-Bromofluorobenzene (S)	94	%	70-130		20		07/06/09 15:38	460-00-4	
Dibromofluoromethane (S)	95	%	70-130		20		07/06/09 15:38	1868-53-7	
Toluene-d8 (S)	95	%	70-130		20		07/06/09 15:38	2037-26-5	

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ANALYTICAL RESULTS

Project: 71238.40 SANGAMO PLANT SITE
Pace Project No.: 4019402

Sample: SPRW-202-A **Lab ID: 4019402012** Collected: 06/30/09 14:20 Received: 07/02/09 10:05 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Acetone	**<99.8**	ug/L	400	99.8	20		07/06/09 16:02	67-64-1	
Benzene	**<8.2**	ug/L	20.0	8.2	20		07/06/09 16:02	71-43-2	
Bromodichloromethane	**<11.2**	ug/L	20.0	11.2	20		07/06/09 16:02	75-27-4	
Bromoform	**<18.8**	ug/L	20.0	18.8	20		07/06/09 16:02	75-25-2	
Bromomethane	**<18.2**	ug/L	20.0	18.2	20		07/06/09 16:02	74-83-9	
2-Butanone (MEK)	**<86.0**	ug/L	400	86.0	20		07/06/09 16:02	78-93-3	
Carbon disulfide	**<13.2**	ug/L	20.0	13.2	20		07/06/09 16:02	75-15-0	
Carbon tetrachloride	**<9.8**	ug/L	20.0	9.8	20		07/06/09 16:02	56-23-5	
Chlorobenzene	**<8.2**	ug/L	20.0	8.2	20		07/06/09 16:02	108-90-7	
Chloroethane	**<19.4**	ug/L	20.0	19.4	20		07/06/09 16:02	75-00-3	
Chloroform	**<26.0**	ug/L	100	26.0	20		07/06/09 16:02	67-66-3	
Chloromethane	**<4.8**	ug/L	20.0	4.8	20		07/06/09 16:02	74-87-3	
Dibromochloromethane	**<16.2**	ug/L	20.0	16.2	20		07/06/09 16:02	124-48-1	
1,1-Dichloroethane	**<15.0**	ug/L	20.0	15.0	20		07/06/09 16:02	75-34-3	
1,2-Dichloroethane	**<7.2**	ug/L	20.0	7.2	20		07/06/09 16:02	107-06-2	
1,1-Dichloroethene	**<11.4**	ug/L	20.0	11.4	20		07/06/09 16:02	75-35-4	
cis-1,2-Dichloroethene	**1550**	ug/L	20.0	16.6	20		07/06/09 16:02	156-59-2	
trans-1,2-Dichloroethene	**21.1**	ug/L	20.0	17.8	20		07/06/09 16:02	156-60-5	
1,2-Dichloropropane	**<9.8**	ug/L	20.0	9.8	20		07/06/09 16:02	78-87-5	
cis-1,3-Dichloropropene	**<4.0**	ug/L	20.0	4.0	20		07/06/09 16:02	10061-01-5	
trans-1,3-Dichloropropene	**<3.8**	ug/L	20.0	3.8	20		07/06/09 16:02	10061-02-6	
Ethylbenzene	**<10.8**	ug/L	20.0	10.8	20		07/06/09 16:02	100-41-4	
2-Hexanone	**<39.4**	ug/L	100	39.4	20		07/06/09 16:02	591-78-6	
Methylene Chloride	**<8.6**	ug/L	20.0	8.6	20		07/06/09 16:02	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<24.0**	ug/L	100	24.0	20		07/06/09 16:02	108-10-1	
Styrene	**<17.2**	ug/L	20.0	17.2	20		07/06/09 16:02	100-42-5	
1,1,2,2-Tetrachloroethane	**<4.0**	ug/L	20.0	4.0	20		07/06/09 16:02	79-34-5	
Tetrachloroethene	**115**	ug/L	20.0	9.0	20		07/06/09 16:02	127-18-4	
Toluene	**<13.4**	ug/L	20.0	13.4	20		07/06/09 16:02	108-88-3	
1,1,1-Trichloroethane	**<18.0**	ug/L	20.0	18.0	20		07/06/09 16:02	71-55-6	
1,1,2-Trichloroethane	**<8.4**	ug/L	20.0	8.4	20		07/06/09 16:02	79-00-5	
Trichloroethene	**515**	ug/L	20.0	9.6	20		07/06/09 16:02	79-01-6	
Vinyl chloride	**<3.6**	ug/L	20.0	3.6	20		07/06/09 16:02	75-01-4	
Xylene (Total)	**<52.0**	ug/L	60.0	52.0	20		07/06/09 16:02	1330-20-7	
4-Bromofluorobenzene (S)	92	%	70-130		20		07/06/09 16:02	460-00-4	
Dibromofluoromethane (S)	94	%	70-130		20		07/06/09 16:02	1868-53-7	
Toluene-d8 (S)	95	%	70-130		20		07/06/09 16:02	2037-26-5	

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ANALYTICAL RESULTS

Project: 71238.40 SANGAMO PLANT SITE
Pace Project No.: 4019402

Sample: SPRW-202-B **Lab ID: 4019402013** Collected: 06/30/09 14:30 Received: 07/02/09 10:05 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Acetone	**<99.8**	ug/L	400	99.8	20		07/06/09 16:25	67-64-1	
Benzene	**<8.2**	ug/L	20.0	8.2	20		07/06/09 16:25	71-43-2	
Bromodichloromethane	**<11.2**	ug/L	20.0	11.2	20		07/06/09 16:25	75-27-4	
Bromoform	**<18.8**	ug/L	20.0	18.8	20		07/06/09 16:25	75-25-2	
Bromomethane	**<18.2**	ug/L	20.0	18.2	20		07/06/09 16:25	74-83-9	
2-Butanone (MEK)	**<86.0**	ug/L	400	86.0	20		07/06/09 16:25	78-93-3	
Carbon disulfide	**<13.2**	ug/L	20.0	13.2	20		07/06/09 16:25	75-15-0	
Carbon tetrachloride	**<9.8**	ug/L	20.0	9.8	20		07/06/09 16:25	56-23-5	
Chlorobenzene	**<8.2**	ug/L	20.0	8.2	20		07/06/09 16:25	108-90-7	
Chloroethane	**<19.4**	ug/L	20.0	19.4	20		07/06/09 16:25	75-00-3	
Chloroform	**<26.0**	ug/L	100	26.0	20		07/06/09 16:25	67-66-3	
Chloromethane	**<4.8**	ug/L	20.0	4.8	20		07/06/09 16:25	74-87-3	
Dibromochloromethane	**<16.2**	ug/L	20.0	16.2	20		07/06/09 16:25	124-48-1	
1,1-Dichloroethane	**<15.0**	ug/L	20.0	15.0	20		07/06/09 16:25	75-34-3	
1,2-Dichloroethane	**<7.2**	ug/L	20.0	7.2	20		07/06/09 16:25	107-06-2	
1,1-Dichloroethene	**<11.4**	ug/L	20.0	11.4	20		07/06/09 16:25	75-35-4	
cis-1,2-Dichloroethene	**1530**	ug/L	20.0	16.6	20		07/06/09 16:25	156-59-2	
trans-1,2-Dichloroethene	**34.9**	ug/L	20.0	17.8	20		07/06/09 16:25	156-60-5	
1,2-Dichloropropane	**<9.8**	ug/L	20.0	9.8	20		07/06/09 16:25	78-87-5	
cis-1,3-Dichloropropene	**<4.0**	ug/L	20.0	4.0	20		07/06/09 16:25	10061-01-5	
trans-1,3-Dichloropropene	**<3.8**	ug/L	20.0	3.8	20		07/06/09 16:25	10061-02-6	
Ethylbenzene	**<10.8**	ug/L	20.0	10.8	20		07/06/09 16:25	100-41-4	
2-Hexanone	**<39.4**	ug/L	100	39.4	20		07/06/09 16:25	591-78-6	
Methylene Chloride	**<8.6**	ug/L	20.0	8.6	20		07/06/09 16:25	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<24.0**	ug/L	100	24.0	20		07/06/09 16:25	108-10-1	
Styrene	**<17.2**	ug/L	20.0	17.2	20		07/06/09 16:25	100-42-5	
1,1,2,2-Tetrachloroethane	**<4.0**	ug/L	20.0	4.0	20		07/06/09 16:25	79-34-5	
Tetrachloroethene	**116**	ug/L	20.0	9.0	20		07/06/09 16:25	127-18-4	
Toluene	**<13.4**	ug/L	20.0	13.4	20		07/06/09 16:25	108-88-3	
1,1,1-Trichloroethane	**<18.0**	ug/L	20.0	18.0	20		07/06/09 16:25	71-55-6	
1,1,2-Trichloroethane	**<8.4**	ug/L	20.0	8.4	20		07/06/09 16:25	79-00-5	
Trichloroethene	**517**	ug/L	20.0	9.6	20		07/06/09 16:25	79-01-6	
Vinyl chloride	**<3.6**	ug/L	20.0	3.6	20		07/06/09 16:25	75-01-4	
Xylene (Total)	**<52.0**	ug/L	60.0	52.0	20		07/06/09 16:25	1330-20-7	
4-Bromofluorobenzene (S)	91	%	70-130		20		07/06/09 16:25	460-00-4	
Dibromofluoromethane (S)	92	%	70-130		20		07/06/09 16:25	1868-53-7	
Toluene-d8 (S)	94	%	70-130		20		07/06/09 16:25	2037-26-5	

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ANALYTICAL RESULTS

Project: 71238.40 SANGAMO PLANT SITE
Pace Project No.: 4019402

Sample: SPRW-202-C **Lab ID: 4019402014** Collected: 06/30/09 14:40 Received: 07/02/09 10:05 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Acetone	**<99.8**	ug/L	400	99.8	20		07/06/09 16:48	67-64-1	
Benzene	**<8.2**	ug/L	20.0	8.2	20		07/06/09 16:48	71-43-2	
Bromodichloromethane	**<11.2**	ug/L	20.0	11.2	20		07/06/09 16:48	75-27-4	
Bromoform	**<18.8**	ug/L	20.0	18.8	20		07/06/09 16:48	75-25-2	
Bromomethane	**<18.2**	ug/L	20.0	18.2	20		07/06/09 16:48	74-83-9	
2-Butanone (MEK)	**<86.0**	ug/L	400	86.0	20		07/06/09 16:48	78-93-3	
Carbon disulfide	**<13.2**	ug/L	20.0	13.2	20		07/06/09 16:48	75-15-0	
Carbon tetrachloride	**<9.8**	ug/L	20.0	9.8	20		07/06/09 16:48	56-23-5	
Chlorobenzene	**<8.2**	ug/L	20.0	8.2	20		07/06/09 16:48	108-90-7	
Chloroethane	**<19.4**	ug/L	20.0	19.4	20		07/06/09 16:48	75-00-3	
Chloroform	**<26.0**	ug/L	100	26.0	20		07/06/09 16:48	67-66-3	
Chloromethane	**<4.8**	ug/L	20.0	4.8	20		07/06/09 16:48	74-87-3	
Dibromochloromethane	**<16.2**	ug/L	20.0	16.2	20		07/06/09 16:48	124-48-1	
1,1-Dichloroethane	**<15.0**	ug/L	20.0	15.0	20		07/06/09 16:48	75-34-3	
1,2-Dichloroethane	**<7.2**	ug/L	20.0	7.2	20		07/06/09 16:48	107-06-2	
1,1-Dichloroethene	**<11.4**	ug/L	20.0	11.4	20		07/06/09 16:48	75-35-4	
cis-1,2-Dichloroethene	**1480**	ug/L	20.0	16.6	20		07/06/09 16:48	156-59-2	
trans-1,2-Dichloroethene	**32.9**	ug/L	20.0	17.8	20		07/06/09 16:48	156-60-5	
1,2-Dichloropropane	**<9.8**	ug/L	20.0	9.8	20		07/06/09 16:48	78-87-5	
cis-1,3-Dichloropropene	**<4.0**	ug/L	20.0	4.0	20		07/06/09 16:48	10061-01-5	
trans-1,3-Dichloropropene	**<3.8**	ug/L	20.0	3.8	20		07/06/09 16:48	10061-02-6	
Ethylbenzene	**<10.8**	ug/L	20.0	10.8	20		07/06/09 16:48	100-41-4	
2-Hexanone	**<39.4**	ug/L	100	39.4	20		07/06/09 16:48	591-78-6	
Methylene Chloride	**<8.6**	ug/L	20.0	8.6	20		07/06/09 16:48	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<24.0**	ug/L	100	24.0	20		07/06/09 16:48	108-10-1	
Styrene	**<17.2**	ug/L	20.0	17.2	20		07/06/09 16:48	100-42-5	
1,1,2,2-Tetrachloroethane	**<4.0**	ug/L	20.0	4.0	20		07/06/09 16:48	79-34-5	
Tetrachloroethene	**108**	ug/L	20.0	9.0	20		07/06/09 16:48	127-18-4	
Toluene	**<13.4**	ug/L	20.0	13.4	20		07/06/09 16:48	108-88-3	
1,1,1-Trichloroethane	**<18.0**	ug/L	20.0	18.0	20		07/06/09 16:48	71-55-6	
1,1,2-Trichloroethane	**<8.4**	ug/L	20.0	8.4	20		07/06/09 16:48	79-00-5	
Trichloroethene	**488**	ug/L	20.0	9.6	20		07/06/09 16:48	79-01-6	
Vinyl chloride	**<3.6**	ug/L	20.0	3.6	20		07/06/09 16:48	75-01-4	
Xylene (Total)	**<52.0**	ug/L	60.0	52.0	20		07/06/09 16:48	1330-20-7	
4-Bromofluorobenzene (S)	92	%	70-130		20		07/06/09 16:48	460-00-4	
Dibromofluoromethane (S)	92	%	70-130		20		07/06/09 16:48	1868-53-7	
Toluene-d8 (S)	95	%	70-130		20		07/06/09 16:48	2037-26-5	

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ANALYTICAL RESULTS

Project: 71238.40 SANGAMO PLANT SITE
Pace Project No.: 4019402

Sample: SPRW-202-D **Lab ID: 4019402015** Collected: 06/30/09 14:50 Received: 07/02/09 10:05 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Acetone	**<99.8**	ug/L	400	99.8	20		07/06/09 17:11	67-64-1	
Benzene	**<8.2**	ug/L	20.0	8.2	20		07/06/09 17:11	71-43-2	
Bromodichloromethane	**<11.2**	ug/L	20.0	11.2	20		07/06/09 17:11	75-27-4	
Bromoform	**<18.8**	ug/L	20.0	18.8	20		07/06/09 17:11	75-25-2	
Bromomethane	**<18.2**	ug/L	20.0	18.2	20		07/06/09 17:11	74-83-9	
2-Butanone (MEK)	**<86.0**	ug/L	400	86.0	20		07/06/09 17:11	78-93-3	
Carbon disulfide	**<13.2**	ug/L	20.0	13.2	20		07/06/09 17:11	75-15-0	
Carbon tetrachloride	**<9.8**	ug/L	20.0	9.8	20		07/06/09 17:11	56-23-5	
Chlorobenzene	**<8.2**	ug/L	20.0	8.2	20		07/06/09 17:11	108-90-7	
Chloroethane	**<19.4**	ug/L	20.0	19.4	20		07/06/09 17:11	75-00-3	
Chloroform	**<26.0**	ug/L	100	26.0	20		07/06/09 17:11	67-66-3	
Chloromethane	**<4.8**	ug/L	20.0	4.8	20		07/06/09 17:11	74-87-3	
Dibromochloromethane	**<16.2**	ug/L	20.0	16.2	20		07/06/09 17:11	124-48-1	
1,1-Dichloroethane	**<15.0**	ug/L	20.0	15.0	20		07/06/09 17:11	75-34-3	
1,2-Dichloroethane	**<7.2**	ug/L	20.0	7.2	20		07/06/09 17:11	107-06-2	
1,1-Dichloroethene	**<11.4**	ug/L	20.0	11.4	20		07/06/09 17:11	75-35-4	
cis-1,2-Dichloroethene	**1510**	ug/L	20.0	16.6	20		07/06/09 17:11	156-59-2	
trans-1,2-Dichloroethene	**18.2J**	ug/L	20.0	17.8	20		07/06/09 17:11	156-60-5	
1,2-Dichloropropane	**<9.8**	ug/L	20.0	9.8	20		07/06/09 17:11	78-87-5	
cis-1,3-Dichloropropene	**<4.0**	ug/L	20.0	4.0	20		07/06/09 17:11	10061-01-5	
trans-1,3-Dichloropropene	**<3.8**	ug/L	20.0	3.8	20		07/06/09 17:11	10061-02-6	
Ethylbenzene	**<10.8**	ug/L	20.0	10.8	20		07/06/09 17:11	100-41-4	
2-Hexanone	**<39.4**	ug/L	100	39.4	20		07/06/09 17:11	591-78-6	
Methylene Chloride	**<8.6**	ug/L	20.0	8.6	20		07/06/09 17:11	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<24.0**	ug/L	100	24.0	20		07/06/09 17:11	108-10-1	
Styrene	**<17.2**	ug/L	20.0	17.2	20		07/06/09 17:11	100-42-5	
1,1,2,2-Tetrachloroethane	**<4.0**	ug/L	20.0	4.0	20		07/06/09 17:11	79-34-5	
Tetrachloroethene	**104**	ug/L	20.0	9.0	20		07/06/09 17:11	127-18-4	
Toluene	**<13.4**	ug/L	20.0	13.4	20		07/06/09 17:11	108-88-3	
1,1,1-Trichloroethane	**<18.0**	ug/L	20.0	18.0	20		07/06/09 17:11	71-55-6	
1,1,2-Trichloroethane	**<8.4**	ug/L	20.0	8.4	20		07/06/09 17:11	79-00-5	
Trichloroethene	**482**	ug/L	20.0	9.6	20		07/06/09 17:11	79-01-6	
Vinyl chloride	**<3.6**	ug/L	20.0	3.6	20		07/06/09 17:11	75-01-4	
Xylene (Total)	**<52.0**	ug/L	60.0	52.0	20		07/06/09 17:11	1330-20-7	
4-Bromofluorobenzene (S)	90	%	70-130		20		07/06/09 17:11	460-00-4	
Dibromofluoromethane (S)	95	%	70-130		20		07/06/09 17:11	1868-53-7	
Toluene-d8 (S)	92	%	70-130		20		07/06/09 17:11	2037-26-5	

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ANALYTICAL RESULTS

Project: 71238.40 SANGAMO PLANT SITE
Pace Project No.: 4019402

Sample: SPRW-202-E **Lab ID: 4019402016** Collected: 06/30/09 15:00 Received: 07/02/09 10:05 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Acetone	**<99.8**	ug/L	400	99.8	20		07/06/09 17:34	67-64-1	
Benzene	**<8.2**	ug/L	20.0	8.2	20		07/06/09 17:34	71-43-2	
Bromodichloromethane	**<11.2**	ug/L	20.0	11.2	20		07/06/09 17:34	75-27-4	
Bromoform	**<18.8**	ug/L	20.0	18.8	20		07/06/09 17:34	75-25-2	
Bromomethane	**<18.2**	ug/L	20.0	18.2	20		07/06/09 17:34	74-83-9	
2-Butanone (MEK)	**<86.0**	ug/L	400	86.0	20		07/06/09 17:34	78-93-3	
Carbon disulfide	**<13.2**	ug/L	20.0	13.2	20		07/06/09 17:34	75-15-0	
Carbon tetrachloride	**<9.8**	ug/L	20.0	9.8	20		07/06/09 17:34	56-23-5	
Chlorobenzene	**<8.2**	ug/L	20.0	8.2	20		07/06/09 17:34	108-90-7	
Chloroethane	**<19.4**	ug/L	20.0	19.4	20		07/06/09 17:34	75-00-3	
Chloroform	**<26.0**	ug/L	100	26.0	20		07/06/09 17:34	67-66-3	
Chloromethane	**<4.8**	ug/L	20.0	4.8	20		07/06/09 17:34	74-87-3	
Dibromochloromethane	**<16.2**	ug/L	20.0	16.2	20		07/06/09 17:34	124-48-1	
1,1-Dichloroethane	**<15.0**	ug/L	20.0	15.0	20		07/06/09 17:34	75-34-3	
1,2-Dichloroethane	**<7.2**	ug/L	20.0	7.2	20		07/06/09 17:34	107-06-2	
1,1-Dichloroethene	**<11.4**	ug/L	20.0	11.4	20		07/06/09 17:34	75-35-4	
cis-1,2-Dichloroethene	**1600**	ug/L	20.0	16.6	20		07/06/09 17:34	156-59-2	
trans-1,2-Dichloroethene	**36.7**	ug/L	20.0	17.8	20		07/06/09 17:34	156-60-5	
1,2-Dichloropropane	**<9.8**	ug/L	20.0	9.8	20		07/06/09 17:34	78-87-5	
cis-1,3-Dichloropropene	**<4.0**	ug/L	20.0	4.0	20		07/06/09 17:34	10061-01-5	
trans-1,3-Dichloropropene	**<3.8**	ug/L	20.0	3.8	20		07/06/09 17:34	10061-02-6	
Ethylbenzene	**<10.8**	ug/L	20.0	10.8	20		07/06/09 17:34	100-41-4	
2-Hexanone	**<39.4**	ug/L	100	39.4	20		07/06/09 17:34	591-78-6	
Methylene Chloride	**<8.6**	ug/L	20.0	8.6	20		07/06/09 17:34	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<24.0**	ug/L	100	24.0	20		07/06/09 17:34	108-10-1	
Styrene	**<17.2**	ug/L	20.0	17.2	20		07/06/09 17:34	100-42-5	
1,1,2,2-Tetrachloroethane	**<4.0**	ug/L	20.0	4.0	20		07/06/09 17:34	79-34-5	
Tetrachloroethene	**104**	ug/L	20.0	9.0	20		07/06/09 17:34	127-18-4	
Toluene	**<13.4**	ug/L	20.0	13.4	20		07/06/09 17:34	108-88-3	
1,1,1-Trichloroethane	**<18.0**	ug/L	20.0	18.0	20		07/06/09 17:34	71-55-6	
1,1,2-Trichloroethane	**<8.4**	ug/L	20.0	8.4	20		07/06/09 17:34	79-00-5	
Trichloroethene	**548**	ug/L	20.0	9.6	20		07/06/09 17:34	79-01-6	
Vinyl chloride	**<3.6**	ug/L	20.0	3.6	20		07/06/09 17:34	75-01-4	
Xylene (Total)	**<52.0**	ug/L	60.0	52.0	20		07/06/09 17:34	1330-20-7	
4-Bromofluorobenzene (S)	92	%	70-130		20		07/06/09 17:34	460-00-4	
Dibromofluoromethane (S)	93	%	70-130		20		07/06/09 17:34	1868-53-7	
Toluene-d8 (S)	94	%	70-130		20		07/06/09 17:34	2037-26-5	

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ANALYTICAL RESULTS

Project: 71238.40 SANGAMO PLANT SITE
Pace Project No.: 4019402

Sample: SPRW-202-F **Lab ID: 4019402017** Collected: 06/30/09 15:10 Received: 07/02/09 10:05 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Acetone	**<99.8**	ug/L	400	99.8	20		07/06/09 17:58	67-64-1	
Benzene	**<8.2**	ug/L	20.0	8.2	20		07/06/09 17:58	71-43-2	
Bromodichloromethane	**<11.2**	ug/L	20.0	11.2	20		07/06/09 17:58	75-27-4	
Bromoform	**<18.8**	ug/L	20.0	18.8	20		07/06/09 17:58	75-25-2	
Bromomethane	**<18.2**	ug/L	20.0	18.2	20		07/06/09 17:58	74-83-9	
2-Butanone (MEK)	**<86.0**	ug/L	400	86.0	20		07/06/09 17:58	78-93-3	
Carbon disulfide	**<13.2**	ug/L	20.0	13.2	20		07/06/09 17:58	75-15-0	
Carbon tetrachloride	**<9.8**	ug/L	20.0	9.8	20		07/06/09 17:58	56-23-5	
Chlorobenzene	**<8.2**	ug/L	20.0	8.2	20		07/06/09 17:58	108-90-7	
Chloroethane	**<19.4**	ug/L	20.0	19.4	20		07/06/09 17:58	75-00-3	
Chloroform	**<26.0**	ug/L	100	26.0	20		07/06/09 17:58	67-66-3	
Chloromethane	**<4.8**	ug/L	20.0	4.8	20		07/06/09 17:58	74-87-3	
Dibromochloromethane	**<16.2**	ug/L	20.0	16.2	20		07/06/09 17:58	124-48-1	
1,1-Dichloroethane	**<15.0**	ug/L	20.0	15.0	20		07/06/09 17:58	75-34-3	
1,2-Dichloroethane	**<7.2**	ug/L	20.0	7.2	20		07/06/09 17:58	107-06-2	
1,1-Dichloroethene	**<11.4**	ug/L	20.0	11.4	20		07/06/09 17:58	75-35-4	
cis-1,2-Dichloroethene	**1480**	ug/L	20.0	16.6	20		07/06/09 17:58	156-59-2	
trans-1,2-Dichloroethene	**22.4**	ug/L	20.0	17.8	20		07/06/09 17:58	156-60-5	
1,2-Dichloropropane	**<9.8**	ug/L	20.0	9.8	20		07/06/09 17:58	78-87-5	
cis-1,3-Dichloropropene	**<4.0**	ug/L	20.0	4.0	20		07/06/09 17:58	10061-01-5	
trans-1,3-Dichloropropene	**<3.8**	ug/L	20.0	3.8	20		07/06/09 17:58	10061-02-6	
Ethylbenzene	**<10.8**	ug/L	20.0	10.8	20		07/06/09 17:58	100-41-4	
2-Hexanone	**<39.4**	ug/L	100	39.4	20		07/06/09 17:58	591-78-6	
Methylene Chloride	**<8.6**	ug/L	20.0	8.6	20		07/06/09 17:58	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<24.0**	ug/L	100	24.0	20		07/06/09 17:58	108-10-1	
Styrene	**<17.2**	ug/L	20.0	17.2	20		07/06/09 17:58	100-42-5	
1,1,2,2-Tetrachloroethane	**<4.0**	ug/L	20.0	4.0	20		07/06/09 17:58	79-34-5	
Tetrachloroethene	**152**	ug/L	20.0	9.0	20		07/06/09 17:58	127-18-4	
Toluene	**<13.4**	ug/L	20.0	13.4	20		07/06/09 17:58	108-88-3	
1,1,1-Trichloroethane	**<18.0**	ug/L	20.0	18.0	20		07/06/09 17:58	71-55-6	
1,1,2-Trichloroethane	**<8.4**	ug/L	20.0	8.4	20		07/06/09 17:58	79-00-5	
Trichloroethene	**602**	ug/L	20.0	9.6	20		07/06/09 17:58	79-01-6	
Vinyl chloride	**<3.6**	ug/L	20.0	3.6	20		07/06/09 17:58	75-01-4	
Xylene (Total)	**<52.0**	ug/L	60.0	52.0	20		07/06/09 17:58	1330-20-7	
4-Bromofluorobenzene (S)	91	%	70-130		20		07/06/09 17:58	460-00-4	
Dibromofluoromethane (S)	94	%	70-130		20		07/06/09 17:58	1868-53-7	
Toluene-d8 (S)	94	%	70-130		20		07/06/09 17:58	2037-26-5	

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ANALYTICAL RESULTS

Project: 71238.40 SANGAMO PLANT SITE
Pace Project No.: 4019402

Sample: SPRW-202-G **Lab ID: 4019402018** Collected: 06/30/09 15:20 Received: 07/02/09 10:05 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Acetone	**<99.8**	ug/L	400	99.8	20		07/06/09 18:21	67-64-1	
Benzene	**<8.2**	ug/L	20.0	8.2	20		07/06/09 18:21	71-43-2	
Bromodichloromethane	**<11.2**	ug/L	20.0	11.2	20		07/06/09 18:21	75-27-4	
Bromoform	**<18.8**	ug/L	20.0	18.8	20		07/06/09 18:21	75-25-2	
Bromomethane	**<18.2**	ug/L	20.0	18.2	20		07/06/09 18:21	74-83-9	
2-Butanone (MEK)	**<86.0**	ug/L	400	86.0	20		07/06/09 18:21	78-93-3	
Carbon disulfide	**<13.2**	ug/L	20.0	13.2	20		07/06/09 18:21	75-15-0	
Carbon tetrachloride	**<9.8**	ug/L	20.0	9.8	20		07/06/09 18:21	56-23-5	
Chlorobenzene	**<8.2**	ug/L	20.0	8.2	20		07/06/09 18:21	108-90-7	
Chloroethane	**<19.4**	ug/L	20.0	19.4	20		07/06/09 18:21	75-00-3	
Chloroform	**<26.0**	ug/L	100	26.0	20		07/06/09 18:21	67-66-3	
Chloromethane	**<4.8**	ug/L	20.0	4.8	20		07/06/09 18:21	74-87-3	
Dibromochloromethane	**<16.2**	ug/L	20.0	16.2	20		07/06/09 18:21	124-48-1	
1,1-Dichloroethane	**<15.0**	ug/L	20.0	15.0	20		07/06/09 18:21	75-34-3	
1,2-Dichloroethane	**<7.2**	ug/L	20.0	7.2	20		07/06/09 18:21	107-06-2	
1,1-Dichloroethene	**<11.4**	ug/L	20.0	11.4	20		07/06/09 18:21	75-35-4	
cis-1,2-Dichloroethene	**1470**	ug/L	20.0	16.6	20		07/06/09 18:21	156-59-2	
trans-1,2-Dichloroethene	**27.8**	ug/L	20.0	17.8	20		07/06/09 18:21	156-60-5	
1,2-Dichloropropane	**<9.8**	ug/L	20.0	9.8	20		07/06/09 18:21	78-87-5	
cis-1,3-Dichloropropene	**<4.0**	ug/L	20.0	4.0	20		07/06/09 18:21	10061-01-5	
trans-1,3-Dichloropropene	**<3.8**	ug/L	20.0	3.8	20		07/06/09 18:21	10061-02-6	
Ethylbenzene	**<10.8**	ug/L	20.0	10.8	20		07/06/09 18:21	100-41-4	
2-Hexanone	**<39.4**	ug/L	100	39.4	20		07/06/09 18:21	591-78-6	
Methylene Chloride	**<8.6**	ug/L	20.0	8.6	20		07/06/09 18:21	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<24.0**	ug/L	100	24.0	20		07/06/09 18:21	108-10-1	
Styrene	**<17.2**	ug/L	20.0	17.2	20		07/06/09 18:21	100-42-5	
1,1,2,2-Tetrachloroethane	**<4.0**	ug/L	20.0	4.0	20		07/06/09 18:21	79-34-5	
Tetrachloroethene	**150**	ug/L	20.0	9.0	20		07/06/09 18:21	127-18-4	
Toluene	**<13.4**	ug/L	20.0	13.4	20		07/06/09 18:21	108-88-3	
1,1,1-Trichloroethane	**<18.0**	ug/L	20.0	18.0	20		07/06/09 18:21	71-55-6	
1,1,2-Trichloroethane	**<8.4**	ug/L	20.0	8.4	20		07/06/09 18:21	79-00-5	
Trichloroethene	**606**	ug/L	20.0	9.6	20		07/06/09 18:21	79-01-6	
Vinyl chloride	**<3.6**	ug/L	20.0	3.6	20		07/06/09 18:21	75-01-4	
Xylene (Total)	**<52.0**	ug/L	60.0	52.0	20		07/06/09 18:21	1330-20-7	
4-Bromofluorobenzene (S)	91	%	70-130		20		07/06/09 18:21	460-00-4	
Dibromofluoromethane (S)	96	%	70-130		20		07/06/09 18:21	1868-53-7	
Toluene-d8 (S)	94	%	70-130		20		07/06/09 18:21	2037-26-5	

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ANALYTICAL RESULTS

Project: 71238.40 SANGAMO PLANT SITE
Pace Project No.: 4019402

Sample: SPRW-202-H **Lab ID: 4019402019** Collected: 06/30/09 15:30 Received: 07/02/09 10:05 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Acetone	**<99.8**	ug/L	400	99.8	20		07/06/09 18:44	67-64-1	
Benzene	**<8.2**	ug/L	20.0	8.2	20		07/06/09 18:44	71-43-2	
Bromodichloromethane	**<11.2**	ug/L	20.0	11.2	20		07/06/09 18:44	75-27-4	
Bromoform	**<18.8**	ug/L	20.0	18.8	20		07/06/09 18:44	75-25-2	
Bromomethane	**<18.2**	ug/L	20.0	18.2	20		07/06/09 18:44	74-83-9	
2-Butanone (MEK)	**<86.0**	ug/L	400	86.0	20		07/06/09 18:44	78-93-3	
Carbon disulfide	**<13.2**	ug/L	20.0	13.2	20		07/06/09 18:44	75-15-0	
Carbon tetrachloride	**<9.8**	ug/L	20.0	9.8	20		07/06/09 18:44	56-23-5	
Chlorobenzene	**<8.2**	ug/L	20.0	8.2	20		07/06/09 18:44	108-90-7	
Chloroethane	**<19.4**	ug/L	20.0	19.4	20		07/06/09 18:44	75-00-3	
Chloroform	**<26.0**	ug/L	100	26.0	20		07/06/09 18:44	67-66-3	
Chloromethane	**<4.8**	ug/L	20.0	4.8	20		07/06/09 18:44	74-87-3	
Dibromochloromethane	**<16.2**	ug/L	20.0	16.2	20		07/06/09 18:44	124-48-1	
1,1-Dichloroethane	**<15.0**	ug/L	20.0	15.0	20		07/06/09 18:44	75-34-3	
1,2-Dichloroethane	**<7.2**	ug/L	20.0	7.2	20		07/06/09 18:44	107-06-2	
1,1-Dichloroethene	**<11.4**	ug/L	20.0	11.4	20		07/06/09 18:44	75-35-4	
cis-1,2-Dichloroethene	**1530**	ug/L	20.0	16.6	20		07/06/09 18:44	156-59-2	
trans-1,2-Dichloroethene	**32.9**	ug/L	20.0	17.8	20		07/06/09 18:44	156-60-5	
1,2-Dichloropropane	**<9.8**	ug/L	20.0	9.8	20		07/06/09 18:44	78-87-5	
cis-1,3-Dichloropropene	**<4.0**	ug/L	20.0	4.0	20		07/06/09 18:44	10061-01-5	
trans-1,3-Dichloropropene	**<3.8**	ug/L	20.0	3.8	20		07/06/09 18:44	10061-02-6	
Ethylbenzene	**<10.8**	ug/L	20.0	10.8	20		07/06/09 18:44	100-41-4	
2-Hexanone	**<39.4**	ug/L	100	39.4	20		07/06/09 18:44	591-78-6	
Methylene Chloride	**<8.6**	ug/L	20.0	8.6	20		07/06/09 18:44	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<24.0**	ug/L	100	24.0	20		07/06/09 18:44	108-10-1	
Styrene	**<17.2**	ug/L	20.0	17.2	20		07/06/09 18:44	100-42-5	
1,1,2,2-Tetrachloroethane	**<4.0**	ug/L	20.0	4.0	20		07/06/09 18:44	79-34-5	
Tetrachloroethene	**183**	ug/L	20.0	9.0	20		07/06/09 18:44	127-18-4	
Toluene	**<13.4**	ug/L	20.0	13.4	20		07/06/09 18:44	108-88-3	
1,1,1-Trichloroethane	**<18.0**	ug/L	20.0	18.0	20		07/06/09 18:44	71-55-6	
1,1,2-Trichloroethane	**<8.4**	ug/L	20.0	8.4	20		07/06/09 18:44	79-00-5	
Trichloroethene	**646**	ug/L	20.0	9.6	20		07/06/09 18:44	79-01-6	
Vinyl chloride	**<3.6**	ug/L	20.0	3.6	20		07/06/09 18:44	75-01-4	
Xylene (Total)	**<52.0**	ug/L	60.0	52.0	20		07/06/09 18:44	1330-20-7	
4-Bromofluorobenzene (S)	92	%	70-130		20		07/06/09 18:44	460-00-4	
Dibromofluoromethane (S)	95	%	70-130		20		07/06/09 18:44	1868-53-7	
Toluene-d8 (S)	95	%	70-130		20		07/06/09 18:44	2037-26-5	

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ANALYTICAL RESULTS

Project: 71238.40 SANGAMO PLANT SITE
Pace Project No.: 4019402

Sample: SPRW-202-I **Lab ID: 4019402020** Collected: 06/30/09 15:40 Received: 07/02/09 10:05 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Acetone	**<99.8**	ug/L	400	99.8	20		07/06/09 19:07	67-64-1	
Benzene	**<8.2**	ug/L	20.0	8.2	20		07/06/09 19:07	71-43-2	
Bromodichloromethane	**<11.2**	ug/L	20.0	11.2	20		07/06/09 19:07	75-27-4	
Bromoform	**<18.8**	ug/L	20.0	18.8	20		07/06/09 19:07	75-25-2	
Bromomethane	**<18.2**	ug/L	20.0	18.2	20		07/06/09 19:07	74-83-9	
2-Butanone (MEK)	**<86.0**	ug/L	400	86.0	20		07/06/09 19:07	78-93-3	
Carbon disulfide	**<13.2**	ug/L	20.0	13.2	20		07/06/09 19:07	75-15-0	
Carbon tetrachloride	**<9.8**	ug/L	20.0	9.8	20		07/06/09 19:07	56-23-5	
Chlorobenzene	**<8.2**	ug/L	20.0	8.2	20		07/06/09 19:07	108-90-7	
Chloroethane	**<19.4**	ug/L	20.0	19.4	20		07/06/09 19:07	75-00-3	
Chloroform	**<26.0**	ug/L	100	26.0	20		07/06/09 19:07	67-66-3	
Chloromethane	**<4.8**	ug/L	20.0	4.8	20		07/06/09 19:07	74-87-3	
Dibromochloromethane	**<16.2**	ug/L	20.0	16.2	20		07/06/09 19:07	124-48-1	
1,1-Dichloroethane	**<15.0**	ug/L	20.0	15.0	20		07/06/09 19:07	75-34-3	
1,2-Dichloroethane	**<7.2**	ug/L	20.0	7.2	20		07/06/09 19:07	107-06-2	
1,1-Dichloroethene	**<11.4**	ug/L	20.0	11.4	20		07/06/09 19:07	75-35-4	
cis-1,2-Dichloroethene	**1500**	ug/L	20.0	16.6	20		07/06/09 19:07	156-59-2	
trans-1,2-Dichloroethene	**38.0**	ug/L	20.0	17.8	20		07/06/09 19:07	156-60-5	
1,2-Dichloropropane	**<9.8**	ug/L	20.0	9.8	20		07/06/09 19:07	78-87-5	
cis-1,3-Dichloropropene	**<4.0**	ug/L	20.0	4.0	20		07/06/09 19:07	10061-01-5	
trans-1,3-Dichloropropene	**<3.8**	ug/L	20.0	3.8	20		07/06/09 19:07	10061-02-6	
Ethylbenzene	**<10.8**	ug/L	20.0	10.8	20		07/06/09 19:07	100-41-4	
2-Hexanone	**<39.4**	ug/L	100	39.4	20		07/06/09 19:07	591-78-6	
Methylene Chloride	**<8.6**	ug/L	20.0	8.6	20		07/06/09 19:07	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<24.0**	ug/L	100	24.0	20		07/06/09 19:07	108-10-1	
Styrene	**<17.2**	ug/L	20.0	17.2	20		07/06/09 19:07	100-42-5	
1,1,2,2-Tetrachloroethane	**<4.0**	ug/L	20.0	4.0	20		07/06/09 19:07	79-34-5	
Tetrachloroethene	**176**	ug/L	20.0	9.0	20		07/06/09 19:07	127-18-4	
Toluene	**<13.4**	ug/L	20.0	13.4	20		07/06/09 19:07	108-88-3	
1,1,1-Trichloroethane	**<18.0**	ug/L	20.0	18.0	20		07/06/09 19:07	71-55-6	
1,1,2-Trichloroethane	**<8.4**	ug/L	20.0	8.4	20		07/06/09 19:07	79-00-5	
Trichloroethene	**657**	ug/L	20.0	9.6	20		07/06/09 19:07	79-01-6	
Vinyl chloride	**<3.6**	ug/L	20.0	3.6	20		07/06/09 19:07	75-01-4	
Xylene (Total)	**<52.0**	ug/L	60.0	52.0	20		07/06/09 19:07	1330-20-7	
4-Bromofluorobenzene (S)	92	%	70-130		20		07/06/09 19:07	460-00-4	
Dibromofluoromethane (S)	93	%	70-130		20		07/06/09 19:07	1868-53-7	
Toluene-d8 (S)	94	%	70-130		20		07/06/09 19:07	2037-26-5	

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ANALYTICAL RESULTS

Project: 71238.40 SANGAMO PLANT SITE
Pace Project No.: 4019402

Sample: SPRW-204-A **Lab ID: 4019402021** Collected: 06/30/09 16:00 Received: 07/02/09 10:05 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Acetone	**<49.9**	ug/L	200	49.9	10		07/06/09 19:31	67-64-1	
Benzene	**<4.1**	ug/L	10.0	4.1	10		07/06/09 19:31	71-43-2	
Bromodichloromethane	**<5.6**	ug/L	10.0	5.6	10		07/06/09 19:31	75-27-4	
Bromoform	**<9.4**	ug/L	10.0	9.4	10		07/06/09 19:31	75-25-2	
Bromomethane	**<9.1**	ug/L	10.0	9.1	10		07/06/09 19:31	74-83-9	
2-Butanone (MEK)	**<43.0**	ug/L	200	43.0	10		07/06/09 19:31	78-93-3	
Carbon disulfide	**<6.6**	ug/L	10.0	6.6	10		07/06/09 19:31	75-15-0	
Carbon tetrachloride	**<4.9**	ug/L	10.0	4.9	10		07/06/09 19:31	56-23-5	
Chlorobenzene	**<4.1**	ug/L	10.0	4.1	10		07/06/09 19:31	108-90-7	
Chloroethane	**<9.7**	ug/L	10.0	9.7	10		07/06/09 19:31	75-00-3	
Chloroform	**<13.0**	ug/L	50.0	13.0	10		07/06/09 19:31	67-66-3	
Chloromethane	**<2.4**	ug/L	10.0	2.4	10		07/06/09 19:31	74-87-3	
Dibromochloromethane	**<8.1**	ug/L	10.0	8.1	10		07/06/09 19:31	124-48-1	
1,1-Dichloroethane	**<7.5**	ug/L	10.0	7.5	10		07/06/09 19:31	75-34-3	
1,2-Dichloroethane	**<3.6**	ug/L	10.0	3.6	10		07/06/09 19:31	107-06-2	
1,1-Dichloroethene	**17.6**	ug/L	10.0	5.7	10		07/06/09 19:31	75-35-4	
cis-1,2-Dichloroethene	**740**	ug/L	10.0	8.3	10		07/06/09 19:31	156-59-2	
trans-1,2-Dichloroethene	**<8.9**	ug/L	10.0	8.9	10		07/06/09 19:31	156-60-5	
1,2-Dichloropropane	**<4.9**	ug/L	10.0	4.9	10		07/06/09 19:31	78-87-5	
cis-1,3-Dichloropropene	**<2.0**	ug/L	10.0	2.0	10		07/06/09 19:31	10061-01-5	
trans-1,3-Dichloropropene	**<1.9**	ug/L	10.0	1.9	10		07/06/09 19:31	10061-02-6	
Ethylbenzene	**<5.4**	ug/L	10.0	5.4	10		07/06/09 19:31	100-41-4	
2-Hexanone	**<19.7**	ug/L	50.0	19.7	10		07/06/09 19:31	591-78-6	
Methylene Chloride	**<4.3**	ug/L	10.0	4.3	10		07/06/09 19:31	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<12.0**	ug/L	50.0	12.0	10		07/06/09 19:31	108-10-1	
Styrene	**<8.6**	ug/L	10.0	8.6	10		07/06/09 19:31	100-42-5	
1,1,2,2-Tetrachloroethane	**<2.0**	ug/L	10.0	2.0	10		07/06/09 19:31	79-34-5	
Tetrachloroethene	**878**	ug/L	10.0	4.5	10		07/06/09 19:31	127-18-4	
Toluene	**<6.7**	ug/L	10.0	6.7	10		07/06/09 19:31	108-88-3	
1,1,1-Trichloroethane	**<9.0**	ug/L	10.0	9.0	10		07/06/09 19:31	71-55-6	
1,1,2-Trichloroethane	**<4.2**	ug/L	10.0	4.2	10		07/06/09 19:31	79-00-5	
Trichloroethene	**2760**	ug/L	10.0	4.8	10		07/06/09 19:31	79-01-6	
Vinyl chloride	**<1.8**	ug/L	10.0	1.8	10		07/06/09 19:31	75-01-4	
Xylene (Total)	**<26.0**	ug/L	30.0	26.0	10		07/06/09 19:31	1330-20-7	
4-Bromofluorobenzene (S)	92	%	70-130		10		07/06/09 19:31	460-00-4	
Dibromofluoromethane (S)	92	%	70-130		10		07/06/09 19:31	1868-53-7	
Toluene-d8 (S)	94	%	70-130		10		07/06/09 19:31	2037-26-5	

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ANALYTICAL RESULTS

Project: 71238.40 SANGAMO PLANT SITE
Pace Project No.: 4019402

Sample: SPRW-204-B **Lab ID: 4019402022** Collected: 06/30/09 16:10 Received: 07/02/09 10:05 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Acetone	**<99.8**	ug/L	400	99.8	20		07/07/09 08:41	67-64-1	
Benzene	**<8.2**	ug/L	20.0	8.2	20		07/07/09 08:41	71-43-2	
Bromodichloromethane	**<11.2**	ug/L	20.0	11.2	20		07/07/09 08:41	75-27-4	
Bromoform	**<18.8**	ug/L	20.0	18.8	20		07/07/09 08:41	75-25-2	
Bromomethane	**<18.2**	ug/L	20.0	18.2	20		07/07/09 08:41	74-83-9	
2-Butanone (MEK)	**<86.0**	ug/L	400	86.0	20		07/07/09 08:41	78-93-3	
Carbon disulfide	**<13.2**	ug/L	20.0	13.2	20		07/07/09 08:41	75-15-0	
Carbon tetrachloride	**<9.8**	ug/L	20.0	9.8	20		07/07/09 08:41	56-23-5	
Chlorobenzene	**<8.2**	ug/L	20.0	8.2	20		07/07/09 08:41	108-90-7	
Chloroethane	**<19.4**	ug/L	20.0	19.4	20		07/07/09 08:41	75-00-3	
Chloroform	**<26.0**	ug/L	100	26.0	20		07/07/09 08:41	67-66-3	
Chloromethane	**<4.8**	ug/L	20.0	4.8	20		07/07/09 08:41	74-87-3	
Dibromochloromethane	**<16.2**	ug/L	20.0	16.2	20		07/07/09 08:41	124-48-1	
1,1-Dichloroethane	**<15.0**	ug/L	20.0	15.0	20		07/07/09 08:41	75-34-3	
1,2-Dichloroethane	**<7.2**	ug/L	20.0	7.2	20		07/07/09 08:41	107-06-2	
1,1-Dichloroethene	**12.8J**	ug/L	20.0	11.4	20		07/07/09 08:41	75-35-4	
cis-1,2-Dichloroethene	**681**	ug/L	20.0	16.6	20		07/07/09 08:41	156-59-2	
trans-1,2-Dichloroethene	**<17.8**	ug/L	20.0	17.8	20		07/07/09 08:41	156-60-5	
1,2-Dichloropropane	**<9.8**	ug/L	20.0	9.8	20		07/07/09 08:41	78-87-5	
cis-1,3-Dichloropropene	**<4.0**	ug/L	20.0	4.0	20		07/07/09 08:41	10061-01-5	
trans-1,3-Dichloropropene	**<3.8**	ug/L	20.0	3.8	20		07/07/09 08:41	10061-02-6	
Ethylbenzene	**<10.8**	ug/L	20.0	10.8	20		07/07/09 08:41	100-41-4	
2-Hexanone	**<39.4**	ug/L	100	39.4	20		07/07/09 08:41	591-78-6	
Methylene Chloride	**<8.6**	ug/L	20.0	8.6	20		07/07/09 08:41	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<24.0**	ug/L	100	24.0	20		07/07/09 08:41	108-10-1	
Styrene	**<17.2**	ug/L	20.0	17.2	20		07/07/09 08:41	100-42-5	
1,1,2,2-Tetrachloroethane	**<4.0**	ug/L	20.0	4.0	20		07/07/09 08:41	79-34-5	
Tetrachloroethene	**801**	ug/L	20.0	9.0	20		07/07/09 08:41	127-18-4	
Toluene	**<13.4**	ug/L	20.0	13.4	20		07/07/09 08:41	108-88-3	
1,1,1-Trichloroethane	**<18.0**	ug/L	20.0	18.0	20		07/07/09 08:41	71-55-6	
1,1,2-Trichloroethane	**<8.4**	ug/L	20.0	8.4	20		07/07/09 08:41	79-00-5	
Trichloroethene	**2510**	ug/L	20.0	9.6	20		07/07/09 08:41	79-01-6	
Vinyl chloride	**<3.6**	ug/L	20.0	3.6	20		07/07/09 08:41	75-01-4	
Xylene (Total)	**<52.0**	ug/L	60.0	52.0	20		07/07/09 08:41	1330-20-7	
4-Bromofluorobenzene (S)	93	%	70-130		20		07/07/09 08:41	460-00-4	
Dibromofluoromethane (S)	94	%	70-130		20		07/07/09 08:41	1868-53-7	
Toluene-d8 (S)	95	%	70-130		20		07/07/09 08:41	2037-26-5	

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ANALYTICAL RESULTS

Project: 71238.40 SANGAMO PLANT SITE
Pace Project No.: 4019402

Sample: SPRW-204-C **Lab ID: 4019402023** Collected: 06/30/09 16:20 Received: 07/02/09 10:05 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Acetone	**<49.9**	ug/L	200	49.9	10		07/06/09 21:16	67-64-1	
Benzene	**<4.1**	ug/L	10.0	4.1	10		07/06/09 21:16	71-43-2	
Bromodichloromethane	**<5.6**	ug/L	10.0	5.6	10		07/06/09 21:16	75-27-4	
Bromoform	**<9.4**	ug/L	10.0	9.4	10		07/06/09 21:16	75-25-2	
Bromomethane	**<9.1**	ug/L	10.0	9.1	10		07/06/09 21:16	74-83-9	
2-Butanone (MEK)	**<43.0**	ug/L	200	43.0	10		07/06/09 21:16	78-93-3	
Carbon disulfide	**<6.6**	ug/L	10.0	6.6	10		07/06/09 21:16	75-15-0	
Carbon tetrachloride	**<4.9**	ug/L	10.0	4.9	10		07/06/09 21:16	56-23-5	
Chlorobenzene	**<4.1**	ug/L	10.0	4.1	10		07/06/09 21:16	108-90-7	
Chloroethane	**<9.7**	ug/L	10.0	9.7	10		07/06/09 21:16	75-00-3	
Chloroform	**<13.0**	ug/L	50.0	13.0	10		07/06/09 21:16	67-66-3	
Chloromethane	**<2.4**	ug/L	10.0	2.4	10		07/06/09 21:16	74-87-3	
Dibromochloromethane	**<8.1**	ug/L	10.0	8.1	10		07/06/09 21:16	124-48-1	
1,1-Dichloroethane	**<7.5**	ug/L	10.0	7.5	10		07/06/09 21:16	75-34-3	
1,2-Dichloroethane	**<3.6**	ug/L	10.0	3.6	10		07/06/09 21:16	107-06-2	
1,1-Dichloroethene	**18.4**	ug/L	10.0	5.7	10		07/06/09 21:16	75-35-4	
cis-1,2-Dichloroethene	**748**	ug/L	10.0	8.3	10		07/06/09 21:16	156-59-2	
trans-1,2-Dichloroethene	**<8.9**	ug/L	10.0	8.9	10		07/06/09 21:16	156-60-5	
1,2-Dichloropropane	**<4.9**	ug/L	10.0	4.9	10		07/06/09 21:16	78-87-5	
cis-1,3-Dichloropropene	**<2.0**	ug/L	10.0	2.0	10		07/06/09 21:16	10061-01-5	
trans-1,3-Dichloropropene	**<1.9**	ug/L	10.0	1.9	10		07/06/09 21:16	10061-02-6	
Ethylbenzene	**<5.4**	ug/L	10.0	5.4	10		07/06/09 21:16	100-41-4	
2-Hexanone	**<19.7**	ug/L	50.0	19.7	10		07/06/09 21:16	591-78-6	
Methylene Chloride	**<4.3**	ug/L	10.0	4.3	10		07/06/09 21:16	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<12.0**	ug/L	50.0	12.0	10		07/06/09 21:16	108-10-1	
Styrene	**<8.6**	ug/L	10.0	8.6	10		07/06/09 21:16	100-42-5	
1,1,2,2-Tetrachloroethane	**<2.0**	ug/L	10.0	2.0	10		07/06/09 21:16	79-34-5	
Tetrachloroethene	**870**	ug/L	10.0	4.5	10		07/06/09 21:16	127-18-4	
Toluene	**<6.7**	ug/L	10.0	6.7	10		07/06/09 21:16	108-88-3	
1,1,1-Trichloroethane	**<9.0**	ug/L	10.0	9.0	10		07/06/09 21:16	71-55-6	
1,1,2-Trichloroethane	**<4.2**	ug/L	10.0	4.2	10		07/06/09 21:16	79-00-5	
Trichloroethene	**2370**	ug/L	10.0	4.8	10		07/06/09 21:16	79-01-6	
Vinyl chloride	**<1.8**	ug/L	10.0	1.8	10		07/06/09 21:16	75-01-4	
Xylene (Total)	**<26.0**	ug/L	30.0	26.0	10		07/06/09 21:16	1330-20-7	
4-Bromofluorobenzene (S)	94	%	70-130		10		07/06/09 21:16	460-00-4	
Dibromofluoromethane (S)	97	%	70-130		10		07/06/09 21:16	1868-53-7	
Toluene-d8 (S)	104	%	70-130		10		07/06/09 21:16	2037-26-5	

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ANALYTICAL RESULTS

Project: 71238.40 SANGAMO PLANT SITE
Pace Project No.: 4019402

Sample: SPRW-303A-A **Lab ID: 4019402024** Collected: 07/01/09 10:10 Received: 07/02/09 10:05 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Acetone	**<12.5**	ug/L	50.0	12.5	2.5		07/06/09 16:58	67-64-1	
Benzene	**<1.0**	ug/L	2.5	1.0	2.5		07/06/09 16:58	71-43-2	
Bromodichloromethane	**<1.4**	ug/L	2.5	1.4	2.5		07/06/09 16:58	75-27-4	
Bromoform	**<2.4**	ug/L	2.5	2.4	2.5		07/06/09 16:58	75-25-2	
Bromomethane	**<2.3**	ug/L	2.5	2.3	2.5		07/06/09 16:58	74-83-9	
2-Butanone (MEK)	**<10.8**	ug/L	50.0	10.8	2.5		07/06/09 16:58	78-93-3	
Carbon disulfide	**<1.6**	ug/L	2.5	1.6	2.5		07/06/09 16:58	75-15-0	
Carbon tetrachloride	**<1.2**	ug/L	2.5	1.2	2.5		07/06/09 16:58	56-23-5	
Chlorobenzene	**<1.0**	ug/L	2.5	1.0	2.5		07/06/09 16:58	108-90-7	
Chloroethane	**<2.4**	ug/L	2.5	2.4	2.5		07/06/09 16:58	75-00-3	
Chloroform	**<3.2**	ug/L	12.5	3.2	2.5		07/06/09 16:58	67-66-3	
Chloromethane	**<0.60**	ug/L	2.5	0.60	2.5		07/06/09 16:58	74-87-3	
Dibromochloromethane	**<2.0**	ug/L	2.5	2.0	2.5		07/06/09 16:58	124-48-1	
1,1-Dichloroethane	**<1.9**	ug/L	2.5	1.9	2.5		07/06/09 16:58	75-34-3	
1,2-Dichloroethane	**<0.90**	ug/L	2.5	0.90	2.5		07/06/09 16:58	107-06-2	
1,1-Dichloroethene	**1.6J**	ug/L	2.5	1.4	2.5		07/06/09 16:58	75-35-4	
cis-1,2-Dichloroethene	**39.5**	ug/L	2.5	2.1	2.5		07/06/09 16:58	156-59-2	
trans-1,2-Dichloroethene	**<2.2**	ug/L	2.5	2.2	2.5		07/06/09 16:58	156-60-5	
1,2-Dichloropropane	**<1.2**	ug/L	2.5	1.2	2.5		07/06/09 16:58	78-87-5	
cis-1,3-Dichloropropene	**<0.50**	ug/L	2.5	0.50	2.5		07/06/09 16:58	10061-01-5	
trans-1,3-Dichloropropene	**<0.48**	ug/L	2.5	0.48	2.5		07/06/09 16:58	10061-02-6	
Ethylbenzene	**<1.4**	ug/L	2.5	1.4	2.5		07/06/09 16:58	100-41-4	
2-Hexanone	**<4.9**	ug/L	12.5	4.9	2.5		07/06/09 16:58	591-78-6	
Methylene Chloride	**<1.1**	ug/L	2.5	1.1	2.5		07/06/09 16:58	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<3.0**	ug/L	12.5	3.0	2.5		07/06/09 16:58	108-10-1	
Styrene	**<2.2**	ug/L	2.5	2.2	2.5		07/06/09 16:58	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.50**	ug/L	2.5	0.50	2.5		07/06/09 16:58	79-34-5	
Tetrachloroethene	**15.3**	ug/L	2.5	1.1	2.5		07/06/09 16:58	127-18-4	
Toluene	**<1.7**	ug/L	2.5	1.7	2.5		07/06/09 16:58	108-88-3	
1,1,1-Trichloroethane	**<2.2**	ug/L	2.5	2.2	2.5		07/06/09 16:58	71-55-6	
1,1,2-Trichloroethane	**<1.0**	ug/L	2.5	1.0	2.5		07/06/09 16:58	79-00-5	
Trichloroethene	**205**	ug/L	2.5	1.2	2.5		07/06/09 16:58	79-01-6	
Vinyl chloride	**<0.45**	ug/L	2.5	0.45	2.5		07/06/09 16:58	75-01-4	
Xylene (Total)	**<6.5**	ug/L	7.5	6.5	2.5		07/06/09 16:58	1330-20-7	
4-Bromofluorobenzene (S)	93	%	70-130		2.5		07/06/09 16:58	460-00-4	
Dibromofluoromethane (S)	93	%	70-130		2.5		07/06/09 16:58	1868-53-7	
Toluene-d8 (S)	102	%	70-130		2.5		07/06/09 16:58	2037-26-5	

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ANALYTICAL RESULTS

Project: 71238.40 SANGAMO PLANT SITE
Pace Project No.: 4019402

Sample: SPRW-303A-B **Lab ID: 4019402025** Collected: 07/01/09 10:20 Received: 07/02/09 10:05 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Acetone	**<12.5**	ug/L	50.0	12.5	2.5		07/06/09 17:22	67-64-1	
Benzene	**<1.0**	ug/L	2.5	1.0	2.5		07/06/09 17:22	71-43-2	
Bromodichloromethane	**<1.4**	ug/L	2.5	1.4	2.5		07/06/09 17:22	75-27-4	
Bromoform	**<2.4**	ug/L	2.5	2.4	2.5		07/06/09 17:22	75-25-2	
Bromomethane	**<2.3**	ug/L	2.5	2.3	2.5		07/06/09 17:22	74-83-9	
2-Butanone (MEK)	**<10.8**	ug/L	50.0	10.8	2.5		07/06/09 17:22	78-93-3	
Carbon disulfide	**<1.6**	ug/L	2.5	1.6	2.5		07/06/09 17:22	75-15-0	
Carbon tetrachloride	**<1.2**	ug/L	2.5	1.2	2.5		07/06/09 17:22	56-23-5	
Chlorobenzene	**<1.0**	ug/L	2.5	1.0	2.5		07/06/09 17:22	108-90-7	
Chloroethane	**<2.4**	ug/L	2.5	2.4	2.5		07/06/09 17:22	75-00-3	
Chloroform	**<3.2**	ug/L	12.5	3.2	2.5		07/06/09 17:22	67-66-3	
Chloromethane	**<0.60**	ug/L	2.5	0.60	2.5		07/06/09 17:22	74-87-3	
Dibromochloromethane	**<2.0**	ug/L	2.5	2.0	2.5		07/06/09 17:22	124-48-1	
1,1-Dichloroethane	**<1.9**	ug/L	2.5	1.9	2.5		07/06/09 17:22	75-34-3	
1,2-Dichloroethane	**<0.90**	ug/L	2.5	0.90	2.5		07/06/09 17:22	107-06-2	
1,1-Dichloroethene	**2.4J**	ug/L	2.5	1.4	2.5		07/06/09 17:22	75-35-4	
cis-1,2-Dichloroethene	**83.8**	ug/L	2.5	2.1	2.5		07/06/09 17:22	156-59-2	
trans-1,2-Dichloroethene	**<2.2**	ug/L	2.5	2.2	2.5		07/06/09 17:22	156-60-5	
1,2-Dichloropropane	**<1.2**	ug/L	2.5	1.2	2.5		07/06/09 17:22	78-87-5	
cis-1,3-Dichloropropene	**<0.50**	ug/L	2.5	0.50	2.5		07/06/09 17:22	10061-01-5	
trans-1,3-Dichloropropene	**<0.48**	ug/L	2.5	0.48	2.5		07/06/09 17:22	10061-02-6	
Ethylbenzene	**<1.4**	ug/L	2.5	1.4	2.5		07/06/09 17:22	100-41-4	
2-Hexanone	**<4.9**	ug/L	12.5	4.9	2.5		07/06/09 17:22	591-78-6	
Methylene Chloride	**<1.1**	ug/L	2.5	1.1	2.5		07/06/09 17:22	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<3.0**	ug/L	12.5	3.0	2.5		07/06/09 17:22	108-10-1	
Styrene	**<2.2**	ug/L	2.5	2.2	2.5		07/06/09 17:22	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.50**	ug/L	2.5	0.50	2.5		07/06/09 17:22	79-34-5	
Tetrachloroethene	**36.2**	ug/L	2.5	1.1	2.5		07/06/09 17:22	127-18-4	
Toluene	**<1.7**	ug/L	2.5	1.7	2.5		07/06/09 17:22	108-88-3	
1,1,1-Trichloroethane	**<2.2**	ug/L	2.5	2.2	2.5		07/06/09 17:22	71-55-6	
1,1,2-Trichloroethane	**<1.0**	ug/L	2.5	1.0	2.5		07/06/09 17:22	79-00-5	
Trichloroethene	**309**	ug/L	2.5	1.2	2.5		07/06/09 17:22	79-01-6	
Vinyl chloride	**<0.45**	ug/L	2.5	0.45	2.5		07/06/09 17:22	75-01-4	
Xylene (Total)	**<6.5**	ug/L	7.5	6.5	2.5		07/06/09 17:22	1330-20-7	
4-Bromofluorobenzene (S)	93	%	70-130		2.5		07/06/09 17:22	460-00-4	
Dibromofluoromethane (S)	95	%	70-130		2.5		07/06/09 17:22	1868-53-7	
Toluene-d8 (S)	104	%	70-130		2.5		07/06/09 17:22	2037-26-5	

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ANALYTICAL RESULTS

Project: 71238.40 SANGAMO PLANT SITE
Pace Project No.: 4019402

Sample: SPRW-303A-C **Lab ID: 4019402026** Collected: 07/01/09 10:30 Received: 07/02/09 10:05 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Acetone	**<12.5**	ug/L	50.0	12.5	2.5		07/06/09 17:45	67-64-1	
Benzene	**<1.0**	ug/L	2.5	1.0	2.5		07/06/09 17:45	71-43-2	
Bromodichloromethane	**<1.4**	ug/L	2.5	1.4	2.5		07/06/09 17:45	75-27-4	
Bromoform	**<2.4**	ug/L	2.5	2.4	2.5		07/06/09 17:45	75-25-2	
Bromomethane	**<2.3**	ug/L	2.5	2.3	2.5		07/06/09 17:45	74-83-9	
2-Butanone (MEK)	**<10.8**	ug/L	50.0	10.8	2.5		07/06/09 17:45	78-93-3	
Carbon disulfide	**<1.6**	ug/L	2.5	1.6	2.5		07/06/09 17:45	75-15-0	
Carbon tetrachloride	**<1.2**	ug/L	2.5	1.2	2.5		07/06/09 17:45	56-23-5	
Chlorobenzene	**<1.0**	ug/L	2.5	1.0	2.5		07/06/09 17:45	108-90-7	
Chloroethane	**<2.4**	ug/L	2.5	2.4	2.5		07/06/09 17:45	75-00-3	
Chloroform	**<3.2**	ug/L	12.5	3.2	2.5		07/06/09 17:45	67-66-3	
Chloromethane	**<0.60**	ug/L	2.5	0.60	2.5		07/06/09 17:45	74-87-3	
Dibromochloromethane	**<2.0**	ug/L	2.5	2.0	2.5		07/06/09 17:45	124-48-1	
1,1-Dichloroethane	**<1.9**	ug/L	2.5	1.9	2.5		07/06/09 17:45	75-34-3	
1,2-Dichloroethane	**<0.90**	ug/L	2.5	0.90	2.5		07/06/09 17:45	107-06-2	
1,1-Dichloroethene	**2.6**	ug/L	2.5	1.4	2.5		07/06/09 17:45	75-35-4	
cis-1,2-Dichloroethene	**83.8**	ug/L	2.5	2.1	2.5		07/06/09 17:45	156-59-2	
trans-1,2-Dichloroethene	**<2.2**	ug/L	2.5	2.2	2.5		07/06/09 17:45	156-60-5	
1,2-Dichloropropane	**<1.2**	ug/L	2.5	1.2	2.5		07/06/09 17:45	78-87-5	
cis-1,3-Dichloropropene	**<0.50**	ug/L	2.5	0.50	2.5		07/06/09 17:45	10061-01-5	
trans-1,3-Dichloropropene	**<0.48**	ug/L	2.5	0.48	2.5		07/06/09 17:45	10061-02-6	
Ethylbenzene	**<1.4**	ug/L	2.5	1.4	2.5		07/06/09 17:45	100-41-4	
2-Hexanone	**<4.9**	ug/L	12.5	4.9	2.5		07/06/09 17:45	591-78-6	
Methylene Chloride	**<1.1**	ug/L	2.5	1.1	2.5		07/06/09 17:45	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<3.0**	ug/L	12.5	3.0	2.5		07/06/09 17:45	108-10-1	
Styrene	**<2.2**	ug/L	2.5	2.2	2.5		07/06/09 17:45	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.50**	ug/L	2.5	0.50	2.5		07/06/09 17:45	79-34-5	
Tetrachloroethene	**38.0**	ug/L	2.5	1.1	2.5		07/06/09 17:45	127-18-4	
Toluene	**<1.7**	ug/L	2.5	1.7	2.5		07/06/09 17:45	108-88-3	
1,1,1-Trichloroethane	**<2.2**	ug/L	2.5	2.2	2.5		07/06/09 17:45	71-55-6	
1,1,2-Trichloroethane	**<1.0**	ug/L	2.5	1.0	2.5		07/06/09 17:45	79-00-5	
Trichloroethene	**313**	ug/L	2.5	1.2	2.5		07/06/09 17:45	79-01-6	
Vinyl chloride	**<0.45**	ug/L	2.5	0.45	2.5		07/06/09 17:45	75-01-4	
Xylene (Total)	**<6.5**	ug/L	7.5	6.5	2.5		07/06/09 17:45	1330-20-7	
4-Bromofluorobenzene (S)	95	%	70-130		2.5		07/06/09 17:45	460-00-4	
Dibromofluoromethane (S)	94	%	70-130		2.5		07/06/09 17:45	1868-53-7	
Toluene-d8 (S)	105	%	70-130		2.5		07/06/09 17:45	2037-26-5	

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ANALYTICAL RESULTS

Project: 71238.40 SANGAMO PLANT SITE
Pace Project No.: 4019402

Sample: SPRW-303A-D **Lab ID: 4019402027** Collected: 07/01/09 10:40 Received: 07/02/09 10:05 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Acetone	**<12.5**	ug/L	50.0	12.5	2.5		07/06/09 18:08	67-64-1	
Benzene	**<1.0**	ug/L	2.5	1.0	2.5		07/06/09 18:08	71-43-2	
Bromodichloromethane	**<1.4**	ug/L	2.5	1.4	2.5		07/06/09 18:08	75-27-4	
Bromoform	**<2.4**	ug/L	2.5	2.4	2.5		07/06/09 18:08	75-25-2	
Bromomethane	**<2.3**	ug/L	2.5	2.3	2.5		07/06/09 18:08	74-83-9	
2-Butanone (MEK)	**<10.8**	ug/L	50.0	10.8	2.5		07/06/09 18:08	78-93-3	
Carbon disulfide	**<1.6**	ug/L	2.5	1.6	2.5		07/06/09 18:08	75-15-0	
Carbon tetrachloride	**<1.2**	ug/L	2.5	1.2	2.5		07/06/09 18:08	56-23-5	
Chlorobenzene	**<1.0**	ug/L	2.5	1.0	2.5		07/06/09 18:08	108-90-7	
Chloroethane	**<2.4**	ug/L	2.5	2.4	2.5		07/06/09 18:08	75-00-3	
Chloroform	**<3.2**	ug/L	12.5	3.2	2.5		07/06/09 18:08	67-66-3	
Chloromethane	**<0.60**	ug/L	2.5	0.60	2.5		07/06/09 18:08	74-87-3	
Dibromochloromethane	**<2.0**	ug/L	2.5	2.0	2.5		07/06/09 18:08	124-48-1	
1,1-Dichloroethane	**<1.9**	ug/L	2.5	1.9	2.5		07/06/09 18:08	75-34-3	
1,2-Dichloroethane	**<0.90**	ug/L	2.5	0.90	2.5		07/06/09 18:08	107-06-2	
1,1-Dichloroethene	**2.5**	ug/L	2.5	1.4	2.5		07/06/09 18:08	75-35-4	
cis-1,2-Dichloroethene	**76.5**	ug/L	2.5	2.1	2.5		07/06/09 18:08	156-59-2	
trans-1,2-Dichloroethene	**<2.2**	ug/L	2.5	2.2	2.5		07/06/09 18:08	156-60-5	
1,2-Dichloropropane	**<1.2**	ug/L	2.5	1.2	2.5		07/06/09 18:08	78-87-5	
cis-1,3-Dichloropropene	**<0.50**	ug/L	2.5	0.50	2.5		07/06/09 18:08	10061-01-5	
trans-1,3-Dichloropropene	**<0.48**	ug/L	2.5	0.48	2.5		07/06/09 18:08	10061-02-6	
Ethylbenzene	**<1.4**	ug/L	2.5	1.4	2.5		07/06/09 18:08	100-41-4	
2-Hexanone	**<4.9**	ug/L	12.5	4.9	2.5		07/06/09 18:08	591-78-6	
Methylene Chloride	**<1.1**	ug/L	2.5	1.1	2.5		07/06/09 18:08	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<3.0**	ug/L	12.5	3.0	2.5		07/06/09 18:08	108-10-1	
Styrene	**<2.2**	ug/L	2.5	2.2	2.5		07/06/09 18:08	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.50**	ug/L	2.5	0.50	2.5		07/06/09 18:08	79-34-5	
Tetrachloroethene	**34.0**	ug/L	2.5	1.1	2.5		07/06/09 18:08	127-18-4	
Toluene	**<1.7**	ug/L	2.5	1.7	2.5		07/06/09 18:08	108-88-3	
1,1,1-Trichloroethane	**<2.2**	ug/L	2.5	2.2	2.5		07/06/09 18:08	71-55-6	
1,1,2-Trichloroethane	**<1.0**	ug/L	2.5	1.0	2.5		07/06/09 18:08	79-00-5	
Trichloroethene	**296**	ug/L	2.5	1.2	2.5		07/06/09 18:08	79-01-6	
Vinyl chloride	**<0.45**	ug/L	2.5	0.45	2.5		07/06/09 18:08	75-01-4	
Xylene (Total)	**<6.5**	ug/L	7.5	6.5	2.5		07/06/09 18:08	1330-20-7	
4-Bromofluorobenzene (S)	94	%	70-130		2.5		07/06/09 18:08	460-00-4	
Dibromofluoromethane (S)	96	%	70-130		2.5		07/06/09 18:08	1868-53-7	
Toluene-d8 (S)	105	%	70-130		2.5		07/06/09 18:08	2037-26-5	

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ANALYTICAL RESULTS

Project: 71238.40 SANGAMO PLANT SITE
Pace Project No.: 4019402

Sample: SPRW-303A-E **Lab ID: 4019402028** Collected: 07/01/09 10:50 Received: 07/02/09 10:05 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Acetone	**<12.5**	ug/L	50.0	12.5	2.5		07/06/09 18:32	67-64-1	
Benzene	**<1.0**	ug/L	2.5	1.0	2.5		07/06/09 18:32	71-43-2	
Bromodichloromethane	**<1.4**	ug/L	2.5	1.4	2.5		07/06/09 18:32	75-27-4	
Bromoform	**<2.4**	ug/L	2.5	2.4	2.5		07/06/09 18:32	75-25-2	
Bromomethane	**<2.3**	ug/L	2.5	2.3	2.5		07/06/09 18:32	74-83-9	
2-Butanone (MEK)	**<10.8**	ug/L	50.0	10.8	2.5		07/06/09 18:32	78-93-3	
Carbon disulfide	**<1.6**	ug/L	2.5	1.6	2.5		07/06/09 18:32	75-15-0	
Carbon tetrachloride	**<1.2**	ug/L	2.5	1.2	2.5		07/06/09 18:32	56-23-5	
Chlorobenzene	**<1.0**	ug/L	2.5	1.0	2.5		07/06/09 18:32	108-90-7	
Chloroethane	**<2.4**	ug/L	2.5	2.4	2.5		07/06/09 18:32	75-00-3	
Chloroform	**<3.2**	ug/L	12.5	3.2	2.5		07/06/09 18:32	67-66-3	
Chloromethane	**<0.60**	ug/L	2.5	0.60	2.5		07/06/09 18:32	74-87-3	
Dibromochloromethane	**<2.0**	ug/L	2.5	2.0	2.5		07/06/09 18:32	124-48-1	
1,1-Dichloroethane	**<1.9**	ug/L	2.5	1.9	2.5		07/06/09 18:32	75-34-3	
1,2-Dichloroethane	**<0.90**	ug/L	2.5	0.90	2.5		07/06/09 18:32	107-06-2	
1,1-Dichloroethene	**2.5**	ug/L	2.5	1.4	2.5		07/06/09 18:32	75-35-4	
cis-1,2-Dichloroethene	**60.1**	ug/L	2.5	2.1	2.5		07/06/09 18:32	156-59-2	
trans-1,2-Dichloroethene	**<2.2**	ug/L	2.5	2.2	2.5		07/06/09 18:32	156-60-5	
1,2-Dichloropropane	**<1.2**	ug/L	2.5	1.2	2.5		07/06/09 18:32	78-87-5	
cis-1,3-Dichloropropene	**<0.50**	ug/L	2.5	0.50	2.5		07/06/09 18:32	10061-01-5	
trans-1,3-Dichloropropene	**<0.48**	ug/L	2.5	0.48	2.5		07/06/09 18:32	10061-02-6	
Ethylbenzene	**<1.4**	ug/L	2.5	1.4	2.5		07/06/09 18:32	100-41-4	
2-Hexanone	**<4.9**	ug/L	12.5	4.9	2.5		07/06/09 18:32	591-78-6	
Methylene Chloride	**<1.1**	ug/L	2.5	1.1	2.5		07/06/09 18:32	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<3.0**	ug/L	12.5	3.0	2.5		07/06/09 18:32	108-10-1	
Styrene	**<2.2**	ug/L	2.5	2.2	2.5		07/06/09 18:32	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.50**	ug/L	2.5	0.50	2.5		07/06/09 18:32	79-34-5	
Tetrachloroethene	**38.5**	ug/L	2.5	1.1	2.5		07/06/09 18:32	127-18-4	
Toluene	**<1.7**	ug/L	2.5	1.7	2.5		07/06/09 18:32	108-88-3	
1,1,1-Trichloroethane	**<2.2**	ug/L	2.5	2.2	2.5		07/06/09 18:32	71-55-6	
1,1,2-Trichloroethane	**<1.0**	ug/L	2.5	1.0	2.5		07/06/09 18:32	79-00-5	
Trichloroethene	**335**	ug/L	2.5	1.2	2.5		07/06/09 18:32	79-01-6	
Vinyl chloride	**<0.45**	ug/L	2.5	0.45	2.5		07/06/09 18:32	75-01-4	
Xylene (Total)	**<6.5**	ug/L	7.5	6.5	2.5		07/06/09 18:32	1330-20-7	
4-Bromofluorobenzene (S)	96	%	70-130		2.5		07/06/09 18:32	460-00-4	
Dibromofluoromethane (S)	92	%	70-130		2.5		07/06/09 18:32	1868-53-7	
Toluene-d8 (S)	106	%	70-130		2.5		07/06/09 18:32	2037-26-5	

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ANALYTICAL RESULTS

Project: 71238.40 SANGAMO PLANT SITE
Pace Project No.: 4019402

Sample: SPRW-303A-F **Lab ID: 4019402029** Collected: 07/01/09 11:00 Received: 07/02/09 10:05 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Acetone	**<12.5**	ug/L	50.0	12.5	2.5		07/06/09 18:55	67-64-1	
Benzene	**<1.0**	ug/L	2.5	1.0	2.5		07/06/09 18:55	71-43-2	
Bromodichloromethane	**<1.4**	ug/L	2.5	1.4	2.5		07/06/09 18:55	75-27-4	
Bromoform	**<2.4**	ug/L	2.5	2.4	2.5		07/06/09 18:55	75-25-2	
Bromomethane	**<2.3**	ug/L	2.5	2.3	2.5		07/06/09 18:55	74-83-9	
2-Butanone (MEK)	**<10.8**	ug/L	50.0	10.8	2.5		07/06/09 18:55	78-93-3	
Carbon disulfide	**<1.6**	ug/L	2.5	1.6	2.5		07/06/09 18:55	75-15-0	
Carbon tetrachloride	**<1.2**	ug/L	2.5	1.2	2.5		07/06/09 18:55	56-23-5	
Chlorobenzene	**<1.0**	ug/L	2.5	1.0	2.5		07/06/09 18:55	108-90-7	
Chloroethane	**<2.4**	ug/L	2.5	2.4	2.5		07/06/09 18:55	75-00-3	
Chloroform	**<3.2**	ug/L	12.5	3.2	2.5		07/06/09 18:55	67-66-3	
Chloromethane	**<0.60**	ug/L	2.5	0.60	2.5		07/06/09 18:55	74-87-3	
Dibromochloromethane	**<2.0**	ug/L	2.5	2.0	2.5		07/06/09 18:55	124-48-1	
1,1-Dichloroethane	**<1.9**	ug/L	2.5	1.9	2.5		07/06/09 18:55	75-34-3	
1,2-Dichloroethane	**<0.90**	ug/L	2.5	0.90	2.5		07/06/09 18:55	107-06-2	
1,1-Dichloroethene	**2.1J**	ug/L	2.5	1.4	2.5		07/06/09 18:55	75-35-4	
cis-1,2-Dichloroethene	**52.0**	ug/L	2.5	2.1	2.5		07/06/09 18:55	156-59-2	
trans-1,2-Dichloroethene	**<2.2**	ug/L	2.5	2.2	2.5		07/06/09 18:55	156-60-5	
1,2-Dichloropropane	**<1.2**	ug/L	2.5	1.2	2.5		07/06/09 18:55	78-87-5	
cis-1,3-Dichloropropene	**<0.50**	ug/L	2.5	0.50	2.5		07/06/09 18:55	10061-01-5	
trans-1,3-Dichloropropene	**<0.48**	ug/L	2.5	0.48	2.5		07/06/09 18:55	10061-02-6	
Ethylbenzene	**<1.4**	ug/L	2.5	1.4	2.5		07/06/09 18:55	100-41-4	
2-Hexanone	**<4.9**	ug/L	12.5	4.9	2.5		07/06/09 18:55	591-78-6	
Methylene Chloride	**<1.1**	ug/L	2.5	1.1	2.5		07/06/09 18:55	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<3.0**	ug/L	12.5	3.0	2.5		07/06/09 18:55	108-10-1	
Styrene	**<2.2**	ug/L	2.5	2.2	2.5		07/06/09 18:55	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.50**	ug/L	2.5	0.50	2.5		07/06/09 18:55	79-34-5	
Tetrachloroethene	**23.9**	ug/L	2.5	1.1	2.5		07/06/09 18:55	127-18-4	
Toluene	**<1.7**	ug/L	2.5	1.7	2.5		07/06/09 18:55	108-88-3	
1,1,1-Trichloroethane	**<2.2**	ug/L	2.5	2.2	2.5		07/06/09 18:55	71-55-6	
1,1,2-Trichloroethane	**<1.0**	ug/L	2.5	1.0	2.5		07/06/09 18:55	79-00-5	
Trichloroethene	**299**	ug/L	2.5	1.2	2.5		07/06/09 18:55	79-01-6	
Vinyl chloride	**<0.45**	ug/L	2.5	0.45	2.5		07/06/09 18:55	75-01-4	
Xylene (Total)	**<6.5**	ug/L	7.5	6.5	2.5		07/06/09 18:55	1330-20-7	
4-Bromofluorobenzene (S)	94	%	70-130		2.5		07/06/09 18:55	460-00-4	
Dibromofluoromethane (S)	95	%	70-130		2.5		07/06/09 18:55	1868-53-7	
Toluene-d8 (S)	104	%	70-130		2.5		07/06/09 18:55	2037-26-5	

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ANALYTICAL RESULTS

Project: 71238.40 SANGAMO PLANT SITE
Pace Project No.: 4019402

Sample: SPRW-301-A **Lab ID: 4019402030** Collected: 07/01/09 11:30 Received: 07/02/09 10:05 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Acetone	**<49.9**	ug/L	200	49.9	10		07/06/09 19:19	67-64-1	
Benzene	**<4.1**	ug/L	10.0	4.1	10		07/06/09 19:19	71-43-2	
Bromodichloromethane	**<5.6**	ug/L	10.0	5.6	10		07/06/09 19:19	75-27-4	
Bromoform	**<9.4**	ug/L	10.0	9.4	10		07/06/09 19:19	75-25-2	
Bromomethane	**<9.1**	ug/L	10.0	9.1	10		07/06/09 19:19	74-83-9	
2-Butanone (MEK)	**<43.0**	ug/L	200	43.0	10		07/06/09 19:19	78-93-3	
Carbon disulfide	**<6.6**	ug/L	10.0	6.6	10		07/06/09 19:19	75-15-0	
Carbon tetrachloride	**<4.9**	ug/L	10.0	4.9	10		07/06/09 19:19	56-23-5	
Chlorobenzene	**<4.1**	ug/L	10.0	4.1	10		07/06/09 19:19	108-90-7	
Chloroethane	**<9.7**	ug/L	10.0	9.7	10		07/06/09 19:19	75-00-3	
Chloroform	**<13.0**	ug/L	50.0	13.0	10		07/06/09 19:19	67-66-3	
Chloromethane	**<2.4**	ug/L	10.0	2.4	10		07/06/09 19:19	74-87-3	
Dibromochloromethane	**<8.1**	ug/L	10.0	8.1	10		07/06/09 19:19	124-48-1	
1,1-Dichloroethane	**<7.5**	ug/L	10.0	7.5	10		07/06/09 19:19	75-34-3	
1,2-Dichloroethane	**<3.6**	ug/L	10.0	3.6	10		07/06/09 19:19	107-06-2	
1,1-Dichloroethene	**9.9J**	ug/L	10.0	5.7	10		07/06/09 19:19	75-35-4	
cis-1,2-Dichloroethene	**195**	ug/L	10.0	8.3	10		07/06/09 19:19	156-59-2	
trans-1,2-Dichloroethene	**<8.9**	ug/L	10.0	8.9	10		07/06/09 19:19	156-60-5	
1,2-Dichloropropane	**<4.9**	ug/L	10.0	4.9	10		07/06/09 19:19	78-87-5	
cis-1,3-Dichloropropene	**<2.0**	ug/L	10.0	2.0	10		07/06/09 19:19	10061-01-5	
trans-1,3-Dichloropropene	**<1.9**	ug/L	10.0	1.9	10		07/06/09 19:19	10061-02-6	
Ethylbenzene	**<5.4**	ug/L	10.0	5.4	10		07/06/09 19:19	100-41-4	
2-Hexanone	**<19.7**	ug/L	50.0	19.7	10		07/06/09 19:19	591-78-6	
Methylene Chloride	**<4.3**	ug/L	10.0	4.3	10		07/06/09 19:19	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<12.0**	ug/L	50.0	12.0	10		07/06/09 19:19	108-10-1	
Styrene	**<8.6**	ug/L	10.0	8.6	10		07/06/09 19:19	100-42-5	
1,1,2,2-Tetrachloroethane	**<2.0**	ug/L	10.0	2.0	10		07/06/09 19:19	79-34-5	
Tetrachloroethene	**74.5**	ug/L	10.0	4.5	10		07/06/09 19:19	127-18-4	
Toluene	**<6.7**	ug/L	10.0	6.7	10		07/06/09 19:19	108-88-3	
1,1,1-Trichloroethane	**<9.0**	ug/L	10.0	9.0	10		07/06/09 19:19	71-55-6	
1,1,2-Trichloroethane	**<4.2**	ug/L	10.0	4.2	10		07/06/09 19:19	79-00-5	
Trichloroethene	**1090**	ug/L	10.0	4.8	10		07/06/09 19:19	79-01-6	
Vinyl chloride	**<1.8**	ug/L	10.0	1.8	10		07/06/09 19:19	75-01-4	
Xylene (Total)	**<26.0**	ug/L	30.0	26.0	10		07/06/09 19:19	1330-20-7	
4-Bromofluorobenzene (S)	95	%	70-130		10		07/06/09 19:19	460-00-4	
Dibromofluoromethane (S)	92	%	70-130		10		07/06/09 19:19	1868-53-7	
Toluene-d8 (S)	104	%	70-130		10		07/06/09 19:19	2037-26-5	

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ANALYTICAL RESULTS

Project: 71238.40 SANGAMO PLANT SITE
Pace Project No.: 4019402

Sample: SPRW-301-B **Lab ID: 4019402031** Collected: 07/01/09 11:40 Received: 07/02/09 10:05 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Acetone	**<49.9**	ug/L	200	49.9	10		07/06/09 19:42	67-64-1	
Benzene	**<4.1**	ug/L	10.0	4.1	10		07/06/09 19:42	71-43-2	
Bromodichloromethane	**<5.6**	ug/L	10.0	5.6	10		07/06/09 19:42	75-27-4	
Bromoform	**<9.4**	ug/L	10.0	9.4	10		07/06/09 19:42	75-25-2	
Bromomethane	**<9.1**	ug/L	10.0	9.1	10		07/06/09 19:42	74-83-9	
2-Butanone (MEK)	**<43.0**	ug/L	200	43.0	10		07/06/09 19:42	78-93-3	
Carbon disulfide	**<6.6**	ug/L	10.0	6.6	10		07/06/09 19:42	75-15-0	
Carbon tetrachloride	**<4.9**	ug/L	10.0	4.9	10		07/06/09 19:42	56-23-5	
Chlorobenzene	**<4.1**	ug/L	10.0	4.1	10		07/06/09 19:42	108-90-7	
Chloroethane	**<9.7**	ug/L	10.0	9.7	10		07/06/09 19:42	75-00-3	
Chloroform	**<13.0**	ug/L	50.0	13.0	10		07/06/09 19:42	67-66-3	
Chloromethane	**<2.4**	ug/L	10.0	2.4	10		07/06/09 19:42	74-87-3	
Dibromochloromethane	**<8.1**	ug/L	10.0	8.1	10		07/06/09 19:42	124-48-1	
1,1-Dichloroethane	**<7.5**	ug/L	10.0	7.5	10		07/06/09 19:42	75-34-3	
1,2-Dichloroethane	**<3.6**	ug/L	10.0	3.6	10		07/06/09 19:42	107-06-2	
1,1-Dichloroethene	**11.2**	ug/L	10.0	5.7	10		07/06/09 19:42	75-35-4	
cis-1,2-Dichloroethene	**204**	ug/L	10.0	8.3	10		07/06/09 19:42	156-59-2	
trans-1,2-Dichloroethene	**<8.9**	ug/L	10.0	8.9	10		07/06/09 19:42	156-60-5	
1,2-Dichloropropane	**<4.9**	ug/L	10.0	4.9	10		07/06/09 19:42	78-87-5	
cis-1,3-Dichloropropene	**<2.0**	ug/L	10.0	2.0	10		07/06/09 19:42	10061-01-5	
trans-1,3-Dichloropropene	**<1.9**	ug/L	10.0	1.9	10		07/06/09 19:42	10061-02-6	
Ethylbenzene	**<5.4**	ug/L	10.0	5.4	10		07/06/09 19:42	100-41-4	
2-Hexanone	**<19.7**	ug/L	50.0	19.7	10		07/06/09 19:42	591-78-6	
Methylene Chloride	**<4.3**	ug/L	10.0	4.3	10		07/06/09 19:42	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<12.0**	ug/L	50.0	12.0	10		07/06/09 19:42	108-10-1	
Styrene	**<8.6**	ug/L	10.0	8.6	10		07/06/09 19:42	100-42-5	
1,1,2,2-Tetrachloroethane	**<2.0**	ug/L	10.0	2.0	10		07/06/09 19:42	79-34-5	
Tetrachloroethene	**79.9**	ug/L	10.0	4.5	10		07/06/09 19:42	127-18-4	
Toluene	**<6.7**	ug/L	10.0	6.7	10		07/06/09 19:42	108-88-3	
1,1,1-Trichloroethane	**<9.0**	ug/L	10.0	9.0	10		07/06/09 19:42	71-55-6	
1,1,2-Trichloroethane	**<4.2**	ug/L	10.0	4.2	10		07/06/09 19:42	79-00-5	
Trichloroethene	**1140**	ug/L	10.0	4.8	10		07/06/09 19:42	79-01-6	
Vinyl chloride	**<1.8**	ug/L	10.0	1.8	10		07/06/09 19:42	75-01-4	
Xylene (Total)	**<26.0**	ug/L	30.0	26.0	10		07/06/09 19:42	1330-20-7	
4-Bromofluorobenzene (S)	94	%	70-130		10		07/06/09 19:42	460-00-4	
Dibromofluoromethane (S)	94	%	70-130		10		07/06/09 19:42	1868-53-7	
Toluene-d8 (S)	105	%	70-130		10		07/06/09 19:42	2037-26-5	

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ANALYTICAL RESULTS

Project: 71238.40 SANGAMO PLANT SITE
Pace Project No.: 4019402

Sample: SPRW-301-C **Lab ID: 4019402032** Collected: 07/01/09 11:50 Received: 07/02/09 10:05 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Acetone	**<49.9**	ug/L	200	49.9	10		07/06/09 20:06	67-64-1	
Benzene	**<4.1**	ug/L	10.0	4.1	10		07/06/09 20:06	71-43-2	
Bromodichloromethane	**<5.6**	ug/L	10.0	5.6	10		07/06/09 20:06	75-27-4	
Bromoform	**<9.4**	ug/L	10.0	9.4	10		07/06/09 20:06	75-25-2	
Bromomethane	**<9.1**	ug/L	10.0	9.1	10		07/06/09 20:06	74-83-9	
2-Butanone (MEK)	**<43.0**	ug/L	200	43.0	10		07/06/09 20:06	78-93-3	
Carbon disulfide	**<6.6**	ug/L	10.0	6.6	10		07/06/09 20:06	75-15-0	
Carbon tetrachloride	**<4.9**	ug/L	10.0	4.9	10		07/06/09 20:06	56-23-5	
Chlorobenzene	**<4.1**	ug/L	10.0	4.1	10		07/06/09 20:06	108-90-7	
Chloroethane	**<9.7**	ug/L	10.0	9.7	10		07/06/09 20:06	75-00-3	
Chloroform	**<13.0**	ug/L	50.0	13.0	10		07/06/09 20:06	67-66-3	
Chloromethane	**<2.4**	ug/L	10.0	2.4	10		07/06/09 20:06	74-87-3	
Dibromochloromethane	**<8.1**	ug/L	10.0	8.1	10		07/06/09 20:06	124-48-1	
1,1-Dichloroethane	**<7.5**	ug/L	10.0	7.5	10		07/06/09 20:06	75-34-3	
1,2-Dichloroethane	**<3.6**	ug/L	10.0	3.6	10		07/06/09 20:06	107-06-2	
1,1-Dichloroethene	**9.9J**	ug/L	10.0	5.7	10		07/06/09 20:06	75-35-4	
cis-1,2-Dichloroethene	**209**	ug/L	10.0	8.3	10		07/06/09 20:06	156-59-2	
trans-1,2-Dichloroethene	**<8.9**	ug/L	10.0	8.9	10		07/06/09 20:06	156-60-5	
1,2-Dichloropropane	**<4.9**	ug/L	10.0	4.9	10		07/06/09 20:06	78-87-5	
cis-1,3-Dichloropropene	**<2.0**	ug/L	10.0	2.0	10		07/06/09 20:06	10061-01-5	
trans-1,3-Dichloropropene	**<1.9**	ug/L	10.0	1.9	10		07/06/09 20:06	10061-02-6	
Ethylbenzene	**<5.4**	ug/L	10.0	5.4	10		07/06/09 20:06	100-41-4	
2-Hexanone	**<19.7**	ug/L	50.0	19.7	10		07/06/09 20:06	591-78-6	
Methylene Chloride	**<4.3**	ug/L	10.0	4.3	10		07/06/09 20:06	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<12.0**	ug/L	50.0	12.0	10		07/06/09 20:06	108-10-1	
Styrene	**<8.6**	ug/L	10.0	8.6	10		07/06/09 20:06	100-42-5	
1,1,2,2-Tetrachloroethane	**<2.0**	ug/L	10.0	2.0	10		07/06/09 20:06	79-34-5	
Tetrachloroethene	**77.7**	ug/L	10.0	4.5	10		07/06/09 20:06	127-18-4	
Toluene	**<6.7**	ug/L	10.0	6.7	10		07/06/09 20:06	108-88-3	
1,1,1-Trichloroethane	**<9.0**	ug/L	10.0	9.0	10		07/06/09 20:06	71-55-6	
1,1,2-Trichloroethane	**<4.2**	ug/L	10.0	4.2	10		07/06/09 20:06	79-00-5	
Trichloroethene	**1150**	ug/L	10.0	4.8	10		07/06/09 20:06	79-01-6	
Vinyl chloride	**<1.8**	ug/L	10.0	1.8	10		07/06/09 20:06	75-01-4	
Xylene (Total)	**<26.0**	ug/L	30.0	26.0	10		07/06/09 20:06	1330-20-7	
4-Bromofluorobenzene (S)	94	%	70-130		10		07/06/09 20:06	460-00-4	
Dibromofluoromethane (S)	95	%	70-130		10		07/06/09 20:06	1868-53-7	
Toluene-d8 (S)	106	%	70-130		10		07/06/09 20:06	2037-26-5	

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ANALYTICAL RESULTS

Project: 71238.40 SANGAMO PLANT SITE
Pace Project No.: 4019402

Sample: SPRW-301-D **Lab ID: 4019402033** Collected: 07/01/09 12:00 Received: 07/02/09 10:05 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Acetone	**<49.9**	ug/L	200	49.9	10		07/06/09 20:29	67-64-1	
Benzene	**<4.1**	ug/L	10.0	4.1	10		07/06/09 20:29	71-43-2	
Bromodichloromethane	**<5.6**	ug/L	10.0	5.6	10		07/06/09 20:29	75-27-4	
Bromoform	**<9.4**	ug/L	10.0	9.4	10		07/06/09 20:29	75-25-2	
Bromomethane	**<9.1**	ug/L	10.0	9.1	10		07/06/09 20:29	74-83-9	
2-Butanone (MEK)	**<43.0**	ug/L	200	43.0	10		07/06/09 20:29	78-93-3	
Carbon disulfide	**<6.6**	ug/L	10.0	6.6	10		07/06/09 20:29	75-15-0	
Carbon tetrachloride	**<4.9**	ug/L	10.0	4.9	10		07/06/09 20:29	56-23-5	
Chlorobenzene	**<4.1**	ug/L	10.0	4.1	10		07/06/09 20:29	108-90-7	
Chloroethane	**<9.7**	ug/L	10.0	9.7	10		07/06/09 20:29	75-00-3	
Chloroform	**<13.0**	ug/L	50.0	13.0	10		07/06/09 20:29	67-66-3	
Chloromethane	**<2.4**	ug/L	10.0	2.4	10		07/06/09 20:29	74-87-3	
Dibromochloromethane	**<8.1**	ug/L	10.0	8.1	10		07/06/09 20:29	124-48-1	
1,1-Dichloroethane	**<7.5**	ug/L	10.0	7.5	10		07/06/09 20:29	75-34-3	
1,2-Dichloroethane	**<3.6**	ug/L	10.0	3.6	10		07/06/09 20:29	107-06-2	
1,1-Dichloroethene	**10.6**	ug/L	10.0	5.7	10		07/06/09 20:29	75-35-4	
cis-1,2-Dichloroethene	**184**	ug/L	10.0	8.3	10		07/06/09 20:29	156-59-2	
trans-1,2-Dichloroethene	**<8.9**	ug/L	10.0	8.9	10		07/06/09 20:29	156-60-5	
1,2-Dichloropropane	**<4.9**	ug/L	10.0	4.9	10		07/06/09 20:29	78-87-5	
cis-1,3-Dichloropropene	**<2.0**	ug/L	10.0	2.0	10		07/06/09 20:29	10061-01-5	
trans-1,3-Dichloropropene	**<1.9**	ug/L	10.0	1.9	10		07/06/09 20:29	10061-02-6	
Ethylbenzene	**<5.4**	ug/L	10.0	5.4	10		07/06/09 20:29	100-41-4	
2-Hexanone	**<19.7**	ug/L	50.0	19.7	10		07/06/09 20:29	591-78-6	
Methylene Chloride	**<4.3**	ug/L	10.0	4.3	10		07/06/09 20:29	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<12.0**	ug/L	50.0	12.0	10		07/06/09 20:29	108-10-1	
Styrene	**<8.6**	ug/L	10.0	8.6	10		07/06/09 20:29	100-42-5	
1,1,2,2-Tetrachloroethane	**<2.0**	ug/L	10.0	2.0	10		07/06/09 20:29	79-34-5	
Tetrachloroethene	**72.5**	ug/L	10.0	4.5	10		07/06/09 20:29	127-18-4	
Toluene	**<6.7**	ug/L	10.0	6.7	10		07/06/09 20:29	108-88-3	
1,1,1-Trichloroethane	**<9.0**	ug/L	10.0	9.0	10		07/06/09 20:29	71-55-6	
1,1,2-Trichloroethane	**<4.2**	ug/L	10.0	4.2	10		07/06/09 20:29	79-00-5	
Trichloroethene	**1020**	ug/L	10.0	4.8	10		07/06/09 20:29	79-01-6	
Vinyl chloride	**<1.8**	ug/L	10.0	1.8	10		07/06/09 20:29	75-01-4	
Xylene (Total)	**<26.0**	ug/L	30.0	26.0	10		07/06/09 20:29	1330-20-7	
4-Bromofluorobenzene (S)	96	%	70-130		10		07/06/09 20:29	460-00-4	
Dibromofluoromethane (S)	97	%	70-130		10		07/06/09 20:29	1868-53-7	
Toluene-d8 (S)	106	%	70-130		10		07/06/09 20:29	2037-26-5	

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ANALYTICAL RESULTS

Project: 71238.40 SANGAMO PLANT SITE
Pace Project No.: 4019402

Sample: SPRW-301-E **Lab ID: 4019402034** Collected: 07/01/09 12:10 Received: 07/02/09 10:05 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Acetone	**<49.9**	ug/L	200	49.9	10		07/06/09 20:53	67-64-1	
Benzene	**<4.1**	ug/L	10.0	4.1	10		07/06/09 20:53	71-43-2	
Bromodichloromethane	**<5.6**	ug/L	10.0	5.6	10		07/06/09 20:53	75-27-4	
Bromoform	**<9.4**	ug/L	10.0	9.4	10		07/06/09 20:53	75-25-2	
Bromomethane	**<9.1**	ug/L	10.0	9.1	10		07/06/09 20:53	74-83-9	
2-Butanone (MEK)	**<43.0**	ug/L	200	43.0	10		07/06/09 20:53	78-93-3	
Carbon disulfide	**<6.6**	ug/L	10.0	6.6	10		07/06/09 20:53	75-15-0	
Carbon tetrachloride	**<4.9**	ug/L	10.0	4.9	10		07/06/09 20:53	56-23-5	
Chlorobenzene	**<4.1**	ug/L	10.0	4.1	10		07/06/09 20:53	108-90-7	
Chloroethane	**<9.7**	ug/L	10.0	9.7	10		07/06/09 20:53	75-00-3	
Chloroform	**<13.0**	ug/L	50.0	13.0	10		07/06/09 20:53	67-66-3	
Chloromethane	**<2.4**	ug/L	10.0	2.4	10		07/06/09 20:53	74-87-3	
Dibromochloromethane	**<8.1**	ug/L	10.0	8.1	10		07/06/09 20:53	124-48-1	
1,1-Dichloroethane	**<7.5**	ug/L	10.0	7.5	10		07/06/09 20:53	75-34-3	
1,2-Dichloroethane	**<3.6**	ug/L	10.0	3.6	10		07/06/09 20:53	107-06-2	
1,1-Dichloroethene	**10.8**	ug/L	10.0	5.7	10		07/06/09 20:53	75-35-4	
cis-1,2-Dichloroethene	**213**	ug/L	10.0	8.3	10		07/06/09 20:53	156-59-2	
trans-1,2-Dichloroethene	**<8.9**	ug/L	10.0	8.9	10		07/06/09 20:53	156-60-5	
1,2-Dichloropropane	**<4.9**	ug/L	10.0	4.9	10		07/06/09 20:53	78-87-5	
cis-1,3-Dichloropropene	**<2.0**	ug/L	10.0	2.0	10		07/06/09 20:53	10061-01-5	
trans-1,3-Dichloropropene	**<1.9**	ug/L	10.0	1.9	10		07/06/09 20:53	10061-02-6	
Ethylbenzene	**<5.4**	ug/L	10.0	5.4	10		07/06/09 20:53	100-41-4	
2-Hexanone	**<19.7**	ug/L	50.0	19.7	10		07/06/09 20:53	591-78-6	
Methylene Chloride	**<4.3**	ug/L	10.0	4.3	10		07/06/09 20:53	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<12.0**	ug/L	50.0	12.0	10		07/06/09 20:53	108-10-1	
Styrene	**<8.6**	ug/L	10.0	8.6	10		07/06/09 20:53	100-42-5	
1,1,2,2-Tetrachloroethane	**<2.0**	ug/L	10.0	2.0	10		07/06/09 20:53	79-34-5	
Tetrachloroethene	**83.7**	ug/L	10.0	4.5	10		07/06/09 20:53	127-18-4	
Toluene	**<6.7**	ug/L	10.0	6.7	10		07/06/09 20:53	108-88-3	
1,1,1-Trichloroethane	**<9.0**	ug/L	10.0	9.0	10		07/06/09 20:53	71-55-6	
1,1,2-Trichloroethane	**<4.2**	ug/L	10.0	4.2	10		07/06/09 20:53	79-00-5	
Trichloroethene	**1210**	ug/L	10.0	4.8	10		07/06/09 20:53	79-01-6	
Vinyl chloride	**<1.8**	ug/L	10.0	1.8	10		07/06/09 20:53	75-01-4	
Xylene (Total)	**<26.0**	ug/L	30.0	26.0	10		07/06/09 20:53	1330-20-7	
4-Bromofluorobenzene (S)	96	%	70-130		10		07/06/09 20:53	460-00-4	
Dibromofluoromethane (S)	95	%	70-130		10		07/06/09 20:53	1868-53-7	
Toluene-d8 (S)	104	%	70-130		10		07/06/09 20:53	2037-26-5	

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ANALYTICAL RESULTS

Project: 71238.40 SANGAMO PLANT SITE
Pace Project No.: 4019402

Sample: SPRW-301-F **Lab ID: 4019402035** Collected: 07/01/09 12:20 Received: 07/02/09 10:05 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Acetone	**<49.9**	ug/L	200	49.9	10		07/06/09 21:40	67-64-1	
Benzene	**<4.1**	ug/L	10.0	4.1	10		07/06/09 21:40	71-43-2	
Bromodichloromethane	**<5.6**	ug/L	10.0	5.6	10		07/06/09 21:40	75-27-4	
Bromoform	**<9.4**	ug/L	10.0	9.4	10		07/06/09 21:40	75-25-2	
Bromomethane	**<9.1**	ug/L	10.0	9.1	10		07/06/09 21:40	74-83-9	
2-Butanone (MEK)	**<43.0**	ug/L	200	43.0	10		07/06/09 21:40	78-93-3	
Carbon disulfide	**<6.6**	ug/L	10.0	6.6	10		07/06/09 21:40	75-15-0	
Carbon tetrachloride	**<4.9**	ug/L	10.0	4.9	10		07/06/09 21:40	56-23-5	
Chlorobenzene	**<4.1**	ug/L	10.0	4.1	10		07/06/09 21:40	108-90-7	
Chloroethane	**<9.7**	ug/L	10.0	9.7	10		07/06/09 21:40	75-00-3	
Chloroform	**<13.0**	ug/L	50.0	13.0	10		07/06/09 21:40	67-66-3	
Chloromethane	**<2.4**	ug/L	10.0	2.4	10		07/06/09 21:40	74-87-3	
Dibromochloromethane	**<8.1**	ug/L	10.0	8.1	10		07/06/09 21:40	124-48-1	
1,1-Dichloroethane	**<7.5**	ug/L	10.0	7.5	10		07/06/09 21:40	75-34-3	
1,2-Dichloroethane	**<3.6**	ug/L	10.0	3.6	10		07/06/09 21:40	107-06-2	
1,1-Dichloroethene	**10.5**	ug/L	10.0	5.7	10		07/06/09 21:40	75-35-4	
cis-1,2-Dichloroethene	**207**	ug/L	10.0	8.3	10		07/06/09 21:40	156-59-2	
trans-1,2-Dichloroethene	**<8.9**	ug/L	10.0	8.9	10		07/06/09 21:40	156-60-5	
1,2-Dichloropropane	**<4.9**	ug/L	10.0	4.9	10		07/06/09 21:40	78-87-5	
cis-1,3-Dichloropropene	**<2.0**	ug/L	10.0	2.0	10		07/06/09 21:40	10061-01-5	
trans-1,3-Dichloropropene	**<1.9**	ug/L	10.0	1.9	10		07/06/09 21:40	10061-02-6	
Ethylbenzene	**<5.4**	ug/L	10.0	5.4	10		07/06/09 21:40	100-41-4	
2-Hexanone	**<19.7**	ug/L	50.0	19.7	10		07/06/09 21:40	591-78-6	
Methylene Chloride	**<4.3**	ug/L	10.0	4.3	10		07/06/09 21:40	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<12.0**	ug/L	50.0	12.0	10		07/06/09 21:40	108-10-1	
Styrene	**<8.6**	ug/L	10.0	8.6	10		07/06/09 21:40	100-42-5	
1,1,2,2-Tetrachloroethane	**<2.0**	ug/L	10.0	2.0	10		07/06/09 21:40	79-34-5	
Tetrachloroethene	**71.3**	ug/L	10.0	4.5	10		07/06/09 21:40	127-18-4	
Toluene	**<6.7**	ug/L	10.0	6.7	10		07/06/09 21:40	108-88-3	
1,1,1-Trichloroethane	**<9.0**	ug/L	10.0	9.0	10		07/06/09 21:40	71-55-6	
1,1,2-Trichloroethane	**<4.2**	ug/L	10.0	4.2	10		07/06/09 21:40	79-00-5	
Trichloroethene	**1080**	ug/L	10.0	4.8	10		07/06/09 21:40	79-01-6	
Vinyl chloride	**<1.8**	ug/L	10.0	1.8	10		07/06/09 21:40	75-01-4	
Xylene (Total)	**<26.0**	ug/L	30.0	26.0	10		07/06/09 21:40	1330-20-7	
4-Bromofluorobenzene (S)	94	%	70-130		10		07/06/09 21:40	460-00-4	
Dibromofluoromethane (S)	95	%	70-130		10		07/06/09 21:40	1868-53-7	
Toluene-d8 (S)	103	%	70-130		10		07/06/09 21:40	2037-26-5	

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ANALYTICAL RESULTS

Project: 71238.40 SANGAMO PLANT SITE
Pace Project No.: 4019402

Sample: SPRW-401-A **Lab ID: 4019402036** Collected: 07/01/09 14:15 Received: 07/02/09 10:05 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Acetone	**7.0J**	ug/L	20.0	5.0	1		07/06/09 14:59	67-64-1	
Benzene	**<0.41**	ug/L	1.0	0.41	1		07/06/09 14:59	71-43-2	
Bromodichloromethane	**<0.56**	ug/L	1.0	0.56	1		07/06/09 14:59	75-27-4	
Bromoform	**<0.94**	ug/L	1.0	0.94	1		07/06/09 14:59	75-25-2	
Bromomethane	**<0.91**	ug/L	1.0	0.91	1		07/06/09 14:59	74-83-9	
2-Butanone (MEK)	**<4.3**	ug/L	20.0	4.3	1		07/06/09 14:59	78-93-3	
Carbon disulfide	**<0.66**	ug/L	1.0	0.66	1		07/06/09 14:59	75-15-0	
Carbon tetrachloride	**<0.49**	ug/L	1.0	0.49	1		07/06/09 14:59	56-23-5	
Chlorobenzene	**<0.41**	ug/L	1.0	0.41	1		07/06/09 14:59	108-90-7	
Chloroethane	**<0.97**	ug/L	1.0	0.97	1		07/06/09 14:59	75-00-3	
Chloroform	**<1.3**	ug/L	5.0	1.3	1		07/06/09 14:59	67-66-3	
Chloromethane	**<0.24**	ug/L	1.0	0.24	1		07/06/09 14:59	74-87-3	
Dibromochloromethane	**<0.81**	ug/L	1.0	0.81	1		07/06/09 14:59	124-48-1	
1,1-Dichloroethane	**<0.75**	ug/L	1.0	0.75	1		07/06/09 14:59	75-34-3	
1,2-Dichloroethane	**<0.36**	ug/L	1.0	0.36	1		07/06/09 14:59	107-06-2	
1,1-Dichloroethene	**<0.57**	ug/L	1.0	0.57	1		07/06/09 14:59	75-35-4	
cis-1,2-Dichloroethene	**113**	ug/L	1.0	0.83	1		07/06/09 14:59	156-59-2	
trans-1,2-Dichloroethene	**<0.89**	ug/L	1.0	0.89	1		07/06/09 14:59	156-60-5	
1,2-Dichloropropane	**<0.49**	ug/L	1.0	0.49	1		07/06/09 14:59	78-87-5	
cis-1,3-Dichloropropene	**<0.20**	ug/L	1.0	0.20	1		07/06/09 14:59	10061-01-5	
trans-1,3-Dichloropropene	**<0.19**	ug/L	1.0	0.19	1		07/06/09 14:59	10061-02-6	
Ethylbenzene	**<0.54**	ug/L	1.0	0.54	1		07/06/09 14:59	100-41-4	
2-Hexanone	**<2.0**	ug/L	5.0	2.0	1		07/06/09 14:59	591-78-6	
Methylene Chloride	**<0.43**	ug/L	1.0	0.43	1		07/06/09 14:59	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<1.2**	ug/L	5.0	1.2	1		07/06/09 14:59	108-10-1	
Styrene	**<0.86**	ug/L	1.0	0.86	1		07/06/09 14:59	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.20**	ug/L	1.0	0.20	1		07/06/09 14:59	79-34-5	
Tetrachloroethene	**39.6**	ug/L	1.0	0.45	1		07/06/09 14:59	127-18-4	
Toluene	**16.4**	ug/L	1.0	0.67	1		07/06/09 14:59	108-88-3	
1,1,1-Trichloroethane	**<0.90**	ug/L	1.0	0.90	1		07/06/09 14:59	71-55-6	
1,1,2-Trichloroethane	**<0.42**	ug/L	1.0	0.42	1		07/06/09 14:59	79-00-5	
Trichloroethene	**16.5**	ug/L	1.0	0.48	1		07/06/09 14:59	79-01-6	
Vinyl chloride	**2.0**	ug/L	1.0	0.18	1		07/06/09 14:59	75-01-4	
Xylene (Total)	**<2.6**	ug/L	3.0	2.6	1		07/06/09 14:59	1330-20-7	
4-Bromofluorobenzene (S)	91	%	70-130		1		07/06/09 14:59	460-00-4	
Dibromofluoromethane (S)	89	%	70-130		1		07/06/09 14:59	1868-53-7	
Toluene-d8 (S)	102	%	70-130		1		07/06/09 14:59	2037-26-5	

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ANALYTICAL RESULTS

Project: 71238.40 SANGAMO PLANT SITE
Pace Project No.: 4019402

Sample: SPRW-401-B **Lab ID: 4019402037** Collected: 07/01/09 14:25 Received: 07/02/09 10:05 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Acetone	**6.0J**	ug/L	20.0	5.0	1		07/06/09 14:35	67-64-1	
Benzene	**<0.41**	ug/L	1.0	0.41	1		07/06/09 14:35	71-43-2	
Bromodichloromethane	**<0.56**	ug/L	1.0	0.56	1		07/06/09 14:35	75-27-4	
Bromoform	**<0.94**	ug/L	1.0	0.94	1		07/06/09 14:35	75-25-2	
Bromomethane	**<0.91**	ug/L	1.0	0.91	1		07/06/09 14:35	74-83-9	
2-Butanone (MEK)	**<4.3**	ug/L	20.0	4.3	1		07/06/09 14:35	78-93-3	
Carbon disulfide	**<0.66**	ug/L	1.0	0.66	1		07/06/09 14:35	75-15-0	
Carbon tetrachloride	**<0.49**	ug/L	1.0	0.49	1		07/06/09 14:35	56-23-5	
Chlorobenzene	**<0.41**	ug/L	1.0	0.41	1		07/06/09 14:35	108-90-7	
Chloroethane	**<0.97**	ug/L	1.0	0.97	1		07/06/09 14:35	75-00-3	
Chloroform	**<1.3**	ug/L	5.0	1.3	1		07/06/09 14:35	67-66-3	
Chloromethane	**<0.24**	ug/L	1.0	0.24	1		07/06/09 14:35	74-87-3	
Dibromochloromethane	**<0.81**	ug/L	1.0	0.81	1		07/06/09 14:35	124-48-1	
1,1-Dichloroethane	**<0.75**	ug/L	1.0	0.75	1		07/06/09 14:35	75-34-3	
1,2-Dichloroethane	**<0.36**	ug/L	1.0	0.36	1		07/06/09 14:35	107-06-2	
1,1-Dichloroethene	**<0.57**	ug/L	1.0	0.57	1		07/06/09 14:35	75-35-4	
cis-1,2-Dichloroethene	**115**	ug/L	1.0	0.83	1		07/06/09 14:35	156-59-2	
trans-1,2-Dichloroethene	**<0.89**	ug/L	1.0	0.89	1		07/06/09 14:35	156-60-5	
1,2-Dichloropropane	**<0.49**	ug/L	1.0	0.49	1		07/06/09 14:35	78-87-5	
cis-1,3-Dichloropropene	**<0.20**	ug/L	1.0	0.20	1		07/06/09 14:35	10061-01-5	
trans-1,3-Dichloropropene	**<0.19**	ug/L	1.0	0.19	1		07/06/09 14:35	10061-02-6	
Ethylbenzene	**<0.54**	ug/L	1.0	0.54	1		07/06/09 14:35	100-41-4	
2-Hexanone	**<2.0**	ug/L	5.0	2.0	1		07/06/09 14:35	591-78-6	
Methylene Chloride	**<0.43**	ug/L	1.0	0.43	1		07/06/09 14:35	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<1.2**	ug/L	5.0	1.2	1		07/06/09 14:35	108-10-1	
Styrene	**<0.86**	ug/L	1.0	0.86	1		07/06/09 14:35	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.20**	ug/L	1.0	0.20	1		07/06/09 14:35	79-34-5	
Tetrachloroethene	**40.5**	ug/L	1.0	0.45	1		07/06/09 14:35	127-18-4	
Toluene	**11.9**	ug/L	1.0	0.67	1		07/06/09 14:35	108-88-3	
1,1,1-Trichloroethane	**<0.90**	ug/L	1.0	0.90	1		07/06/09 14:35	71-55-6	
1,1,2-Trichloroethane	**<0.42**	ug/L	1.0	0.42	1		07/06/09 14:35	79-00-5	
Trichloroethene	**16.2**	ug/L	1.0	0.48	1		07/06/09 14:35	79-01-6	
Vinyl chloride	**2.1**	ug/L	1.0	0.18	1		07/06/09 14:35	75-01-4	
Xylene (Total)	**<2.6**	ug/L	3.0	2.6	1		07/06/09 14:35	1330-20-7	
4-Bromofluorobenzene (S)	95	%	70-130		1		07/06/09 14:35	460-00-4	
Dibromofluoromethane (S)	95	%	70-130		1		07/06/09 14:35	1868-53-7	
Toluene-d8 (S)	103	%	70-130		1		07/06/09 14:35	2037-26-5	

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ANALYTICAL RESULTS

Project: 71238.40 SANGAMO PLANT SITE
Pace Project No.: 4019402

Sample: SPRW-401-C **Lab ID: 4019402038** Collected: 07/01/09 14:35 Received: 07/02/09 10:05 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Acetone	**8.1J**	ug/L	20.0	5.0	1		07/06/09 15:23	67-64-1	
Benzene	**<0.41**	ug/L	1.0	0.41	1		07/06/09 15:23	71-43-2	
Bromodichloromethane	**<0.56**	ug/L	1.0	0.56	1		07/06/09 15:23	75-27-4	
Bromoform	**<0.94**	ug/L	1.0	0.94	1		07/06/09 15:23	75-25-2	
Bromomethane	**<0.91**	ug/L	1.0	0.91	1		07/06/09 15:23	74-83-9	
2-Butanone (MEK)	**<4.3**	ug/L	20.0	4.3	1		07/06/09 15:23	78-93-3	
Carbon disulfide	**<0.66**	ug/L	1.0	0.66	1		07/06/09 15:23	75-15-0	
Carbon tetrachloride	**<0.49**	ug/L	1.0	0.49	1		07/06/09 15:23	56-23-5	
Chlorobenzene	**<0.41**	ug/L	1.0	0.41	1		07/06/09 15:23	108-90-7	
Chloroethane	**<0.97**	ug/L	1.0	0.97	1		07/06/09 15:23	75-00-3	
Chloroform	**<1.3**	ug/L	5.0	1.3	1		07/06/09 15:23	67-66-3	
Chloromethane	**<0.24**	ug/L	1.0	0.24	1		07/06/09 15:23	74-87-3	
Dibromochloromethane	**<0.81**	ug/L	1.0	0.81	1		07/06/09 15:23	124-48-1	
1,1-Dichloroethane	**<0.75**	ug/L	1.0	0.75	1		07/06/09 15:23	75-34-3	
1,2-Dichloroethane	**<0.36**	ug/L	1.0	0.36	1		07/06/09 15:23	107-06-2	
1,1-Dichloroethene	**<0.57**	ug/L	1.0	0.57	1		07/06/09 15:23	75-35-4	
cis-1,2-Dichloroethene	**117**	ug/L	1.0	0.83	1		07/06/09 15:23	156-59-2	
trans-1,2-Dichloroethene	**<0.89**	ug/L	1.0	0.89	1		07/06/09 15:23	156-60-5	
1,2-Dichloropropane	**<0.49**	ug/L	1.0	0.49	1		07/06/09 15:23	78-87-5	
cis-1,3-Dichloropropene	**<0.20**	ug/L	1.0	0.20	1		07/06/09 15:23	10061-01-5	
trans-1,3-Dichloropropene	**<0.19**	ug/L	1.0	0.19	1		07/06/09 15:23	10061-02-6	
Ethylbenzene	**<0.54**	ug/L	1.0	0.54	1		07/06/09 15:23	100-41-4	
2-Hexanone	**<2.0**	ug/L	5.0	2.0	1		07/06/09 15:23	591-78-6	
Methylene Chloride	**<0.43**	ug/L	1.0	0.43	1		07/06/09 15:23	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<1.2**	ug/L	5.0	1.2	1		07/06/09 15:23	108-10-1	
Styrene	**<0.86**	ug/L	1.0	0.86	1		07/06/09 15:23	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.20**	ug/L	1.0	0.20	1		07/06/09 15:23	79-34-5	
Tetrachloroethene	**43.0**	ug/L	1.0	0.45	1		07/06/09 15:23	127-18-4	
Toluene	**11.2**	ug/L	1.0	0.67	1		07/06/09 15:23	108-88-3	
1,1,1-Trichloroethane	**<0.90**	ug/L	1.0	0.90	1		07/06/09 15:23	71-55-6	
1,1,2-Trichloroethane	**<0.42**	ug/L	1.0	0.42	1		07/06/09 15:23	79-00-5	
Trichloroethene	**17.0**	ug/L	1.0	0.48	1		07/06/09 15:23	79-01-6	
Vinyl chloride	**2.3**	ug/L	1.0	0.18	1		07/06/09 15:23	75-01-4	
Xylene (Total)	**<2.6**	ug/L	3.0	2.6	1		07/06/09 15:23	1330-20-7	
4-Bromofluorobenzene (S)	93	%	70-130		1		07/06/09 15:23	460-00-4	
Dibromofluoromethane (S)	93	%	70-130		1		07/06/09 15:23	1868-53-7	
Toluene-d8 (S)	102	%	70-130		1		07/06/09 15:23	2037-26-5	

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ANALYTICAL RESULTS

Project: 71238.40 SANGAMO PLANT SITE
Pace Project No.: 4019402

Sample: SPRW-401-D **Lab ID: 4019402039** Collected: 07/01/09 14:45 Received: 07/02/09 10:05 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Acetone	**10.1J**	ug/L	20.0	5.0	1		07/06/09 15:47	67-64-1	
Benzene	**<0.41**	ug/L	1.0	0.41	1		07/06/09 15:47	71-43-2	
Bromodichloromethane	**<0.56**	ug/L	1.0	0.56	1		07/06/09 15:47	75-27-4	
Bromoform	**<0.94**	ug/L	1.0	0.94	1		07/06/09 15:47	75-25-2	
Bromomethane	**<0.91**	ug/L	1.0	0.91	1		07/06/09 15:47	74-83-9	
2-Butanone (MEK)	**<4.3**	ug/L	20.0	4.3	1		07/06/09 15:47	78-93-3	
Carbon disulfide	**<0.66**	ug/L	1.0	0.66	1		07/06/09 15:47	75-15-0	
Carbon tetrachloride	**<0.49**	ug/L	1.0	0.49	1		07/06/09 15:47	56-23-5	
Chlorobenzene	**<0.41**	ug/L	1.0	0.41	1		07/06/09 15:47	108-90-7	
Chloroethane	**<0.97**	ug/L	1.0	0.97	1		07/06/09 15:47	75-00-3	
Chloroform	**<1.3**	ug/L	5.0	1.3	1		07/06/09 15:47	67-66-3	
Chloromethane	**<0.24**	ug/L	1.0	0.24	1		07/06/09 15:47	74-87-3	
Dibromochloromethane	**<0.81**	ug/L	1.0	0.81	1		07/06/09 15:47	124-48-1	
1,1-Dichloroethane	**<0.75**	ug/L	1.0	0.75	1		07/06/09 15:47	75-34-3	
1,2-Dichloroethane	**<0.36**	ug/L	1.0	0.36	1		07/06/09 15:47	107-06-2	
1,1-Dichloroethene	**<0.57**	ug/L	1.0	0.57	1		07/06/09 15:47	75-35-4	
cis-1,2-Dichloroethene	**116**	ug/L	1.0	0.83	1		07/06/09 15:47	156-59-2	
trans-1,2-Dichloroethene	**<0.89**	ug/L	1.0	0.89	1		07/06/09 15:47	156-60-5	
1,2-Dichloropropane	**<0.49**	ug/L	1.0	0.49	1		07/06/09 15:47	78-87-5	
cis-1,3-Dichloropropene	**<0.20**	ug/L	1.0	0.20	1		07/06/09 15:47	10061-01-5	
trans-1,3-Dichloropropene	**<0.19**	ug/L	1.0	0.19	1		07/06/09 15:47	10061-02-6	
Ethylbenzene	**<0.54**	ug/L	1.0	0.54	1		07/06/09 15:47	100-41-4	
2-Hexanone	**<2.0**	ug/L	5.0	2.0	1		07/06/09 15:47	591-78-6	
Methylene Chloride	**<0.43**	ug/L	1.0	0.43	1		07/06/09 15:47	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<1.2**	ug/L	5.0	1.2	1		07/06/09 15:47	108-10-1	
Styrene	**<0.86**	ug/L	1.0	0.86	1		07/06/09 15:47	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.20**	ug/L	1.0	0.20	1		07/06/09 15:47	79-34-5	
Tetrachloroethene	**42.9**	ug/L	1.0	0.45	1		07/06/09 15:47	127-18-4	
Toluene	**5.7**	ug/L	1.0	0.67	1		07/06/09 15:47	108-88-3	
1,1,1-Trichloroethane	**<0.90**	ug/L	1.0	0.90	1		07/06/09 15:47	71-55-6	
1,1,2-Trichloroethane	**<0.42**	ug/L	1.0	0.42	1		07/06/09 15:47	79-00-5	
Trichloroethene	**17.6**	ug/L	1.0	0.48	1		07/06/09 15:47	79-01-6	
Vinyl chloride	**2.3**	ug/L	1.0	0.18	1		07/06/09 15:47	75-01-4	
Xylene (Total)	**<2.6**	ug/L	3.0	2.6	1		07/06/09 15:47	1330-20-7	
4-Bromofluorobenzene (S)	92	%	70-130		1		07/06/09 15:47	460-00-4	
Dibromofluoromethane (S)	95	%	70-130		1		07/06/09 15:47	1868-53-7	
Toluene-d8 (S)	103	%	70-130		1		07/06/09 15:47	2037-26-5	

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ANALYTICAL RESULTS

Project: 71238.40 SANGAMO PLANT SITE
Pace Project No.: 4019402

Sample: SPRW-401-E **Lab ID: 4019402040** Collected: 07/01/09 14:55 Received: 07/02/09 10:05 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Acetone	**7.9J**	ug/L	20.0	5.0	1		07/06/09 16:11	67-64-1	
Benzene	**<0.41**	ug/L	1.0	0.41	1		07/06/09 16:11	71-43-2	
Bromodichloromethane	**<0.56**	ug/L	1.0	0.56	1		07/06/09 16:11	75-27-4	
Bromoform	**<0.94**	ug/L	1.0	0.94	1		07/06/09 16:11	75-25-2	
Bromomethane	**<0.91**	ug/L	1.0	0.91	1		07/06/09 16:11	74-83-9	
2-Butanone (MEK)	**<4.3**	ug/L	20.0	4.3	1		07/06/09 16:11	78-93-3	
Carbon disulfide	**<0.66**	ug/L	1.0	0.66	1		07/06/09 16:11	75-15-0	
Carbon tetrachloride	**<0.49**	ug/L	1.0	0.49	1		07/06/09 16:11	56-23-5	
Chlorobenzene	**<0.41**	ug/L	1.0	0.41	1		07/06/09 16:11	108-90-7	
Chloroethane	**<0.97**	ug/L	1.0	0.97	1		07/06/09 16:11	75-00-3	
Chloroform	**<1.3**	ug/L	5.0	1.3	1		07/06/09 16:11	67-66-3	
Chloromethane	**<0.24**	ug/L	1.0	0.24	1		07/06/09 16:11	74-87-3	
Dibromochloromethane	**<0.81**	ug/L	1.0	0.81	1		07/06/09 16:11	124-48-1	
1,1-Dichloroethane	**<0.75**	ug/L	1.0	0.75	1		07/06/09 16:11	75-34-3	
1,2-Dichloroethane	**<0.36**	ug/L	1.0	0.36	1		07/06/09 16:11	107-06-2	
1,1-Dichloroethene	**<0.57**	ug/L	1.0	0.57	1		07/06/09 16:11	75-35-4	
cis-1,2-Dichloroethene	**115**	ug/L	1.0	0.83	1		07/06/09 16:11	156-59-2	
trans-1,2-Dichloroethene	**<0.89**	ug/L	1.0	0.89	1		07/06/09 16:11	156-60-5	
1,2-Dichloropropane	**<0.49**	ug/L	1.0	0.49	1		07/06/09 16:11	78-87-5	
cis-1,3-Dichloropropene	**<0.20**	ug/L	1.0	0.20	1		07/06/09 16:11	10061-01-5	
trans-1,3-Dichloropropene	**<0.19**	ug/L	1.0	0.19	1		07/06/09 16:11	10061-02-6	
Ethylbenzene	**<0.54**	ug/L	1.0	0.54	1		07/06/09 16:11	100-41-4	
2-Hexanone	**<2.0**	ug/L	5.0	2.0	1		07/06/09 16:11	591-78-6	
Methylene Chloride	**<0.43**	ug/L	1.0	0.43	1		07/06/09 16:11	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<1.2**	ug/L	5.0	1.2	1		07/06/09 16:11	108-10-1	
Styrene	**<0.86**	ug/L	1.0	0.86	1		07/06/09 16:11	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.20**	ug/L	1.0	0.20	1		07/06/09 16:11	79-34-5	
Tetrachloroethene	**42.9**	ug/L	1.0	0.45	1		07/06/09 16:11	127-18-4	
Toluene	**7.5**	ug/L	1.0	0.67	1		07/06/09 16:11	108-88-3	
1,1,1-Trichloroethane	**<0.90**	ug/L	1.0	0.90	1		07/06/09 16:11	71-55-6	
1,1,2-Trichloroethane	**<0.42**	ug/L	1.0	0.42	1		07/06/09 16:11	79-00-5	
Trichloroethene	**15.6**	ug/L	1.0	0.48	1		07/06/09 16:11	79-01-6	
Vinyl chloride	**2.3**	ug/L	1.0	0.18	1		07/06/09 16:11	75-01-4	
Xylene (Total)	**<2.6**	ug/L	3.0	2.6	1		07/06/09 16:11	1330-20-7	
4-Bromofluorobenzene (S)	94	%	70-130		1		07/06/09 16:11	460-00-4	
Dibromofluoromethane (S)	95	%	70-130		1		07/06/09 16:11	1868-53-7	
Toluene-d8 (S)	105	%	70-130		1		07/06/09 16:11	2037-26-5	

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ANALYTICAL RESULTS

Project: 71238.40 SANGAMO PLANT SITE
Pace Project No.: 4019402

Sample: SPRW-401-F **Lab ID: 4019402041** Collected: 07/01/09 15:05 Received: 07/02/09 10:05 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Acetone	**8.2J**	ug/L	20.0	5.0	1		07/06/09 16:35	67-64-1	
Benzene	**<0.41**	ug/L	1.0	0.41	1		07/06/09 16:35	71-43-2	
Bromodichloromethane	**<0.56**	ug/L	1.0	0.56	1		07/06/09 16:35	75-27-4	
Bromoform	**<0.94**	ug/L	1.0	0.94	1		07/06/09 16:35	75-25-2	
Bromomethane	**<0.91**	ug/L	1.0	0.91	1		07/06/09 16:35	74-83-9	
2-Butanone (MEK)	**<4.3**	ug/L	20.0	4.3	1		07/06/09 16:35	78-93-3	
Carbon disulfide	**<0.66**	ug/L	1.0	0.66	1		07/06/09 16:35	75-15-0	
Carbon tetrachloride	**<0.49**	ug/L	1.0	0.49	1		07/06/09 16:35	56-23-5	
Chlorobenzene	**<0.41**	ug/L	1.0	0.41	1		07/06/09 16:35	108-90-7	
Chloroethane	**<0.97**	ug/L	1.0	0.97	1		07/06/09 16:35	75-00-3	
Chloroform	**<1.3**	ug/L	5.0	1.3	1		07/06/09 16:35	67-66-3	
Chloromethane	**<0.24**	ug/L	1.0	0.24	1		07/06/09 16:35	74-87-3	
Dibromochloromethane	**<0.81**	ug/L	1.0	0.81	1		07/06/09 16:35	124-48-1	
1,1-Dichloroethane	**<0.75**	ug/L	1.0	0.75	1		07/06/09 16:35	75-34-3	
1,2-Dichloroethane	**<0.36**	ug/L	1.0	0.36	1		07/06/09 16:35	107-06-2	
1,1-Dichloroethene	**<0.57**	ug/L	1.0	0.57	1		07/06/09 16:35	75-35-4	
cis-1,2-Dichloroethene	**119**	ug/L	1.0	0.83	1		07/06/09 16:35	156-59-2	
trans-1,2-Dichloroethene	**<0.89**	ug/L	1.0	0.89	1		07/06/09 16:35	156-60-5	
1,2-Dichloropropane	**<0.49**	ug/L	1.0	0.49	1		07/06/09 16:35	78-87-5	
cis-1,3-Dichloropropene	**<0.20**	ug/L	1.0	0.20	1		07/06/09 16:35	10061-01-5	
trans-1,3-Dichloropropene	**<0.19**	ug/L	1.0	0.19	1		07/06/09 16:35	10061-02-6	
Ethylbenzene	**<0.54**	ug/L	1.0	0.54	1		07/06/09 16:35	100-41-4	
2-Hexanone	**<2.0**	ug/L	5.0	2.0	1		07/06/09 16:35	591-78-6	
Methylene Chloride	**<0.43**	ug/L	1.0	0.43	1		07/06/09 16:35	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<1.2**	ug/L	5.0	1.2	1		07/06/09 16:35	108-10-1	
Styrene	**<0.86**	ug/L	1.0	0.86	1		07/06/09 16:35	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.20**	ug/L	1.0	0.20	1		07/06/09 16:35	79-34-5	
Tetrachloroethene	**38.5**	ug/L	1.0	0.45	1		07/06/09 16:35	127-18-4	
Toluene	**10.8**	ug/L	1.0	0.67	1		07/06/09 16:35	108-88-3	
1,1,1-Trichloroethane	**<0.90**	ug/L	1.0	0.90	1		07/06/09 16:35	71-55-6	
1,1,2-Trichloroethane	**<0.42**	ug/L	1.0	0.42	1		07/06/09 16:35	79-00-5	
Trichloroethene	**16.0**	ug/L	1.0	0.48	1		07/06/09 16:35	79-01-6	
Vinyl chloride	**2.4**	ug/L	1.0	0.18	1		07/06/09 16:35	75-01-4	
Xylene (Total)	**<2.6**	ug/L	3.0	2.6	1		07/06/09 16:35	1330-20-7	
4-Bromofluorobenzene (S)	92	%	70-130		1		07/06/09 16:35	460-00-4	
Dibromofluoromethane (S)	92	%	70-130		1		07/06/09 16:35	1868-53-7	
Toluene-d8 (S)	103	%	70-130		1		07/06/09 16:35	2037-26-5	

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ANALYTICAL RESULTS

Project: 71238.40 SANGAMO PLANT SITE
Pace Project No.: 4019402

Sample: TBLK-09201 **Lab ID: 4019402042** Collected: 07/01/09 00:00 Received: 07/02/09 10:05 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Acetone	**<5.0**	ug/L	20.0	5.0	1		07/06/09 13:24	67-64-1	
Benzene	**<0.41**	ug/L	1.0	0.41	1		07/06/09 13:24	71-43-2	
Bromodichloromethane	**<0.56**	ug/L	1.0	0.56	1		07/06/09 13:24	75-27-4	
Bromoform	**<0.94**	ug/L	1.0	0.94	1		07/06/09 13:24	75-25-2	
Bromomethane	**<0.91**	ug/L	1.0	0.91	1		07/06/09 13:24	74-83-9	
2-Butanone (MEK)	**<4.3**	ug/L	20.0	4.3	1		07/06/09 13:24	78-93-3	
Carbon disulfide	**<0.66**	ug/L	1.0	0.66	1		07/06/09 13:24	75-15-0	
Carbon tetrachloride	**<0.49**	ug/L	1.0	0.49	1		07/06/09 13:24	56-23-5	
Chlorobenzene	**<0.41**	ug/L	1.0	0.41	1		07/06/09 13:24	108-90-7	
Chloroethane	**<0.97**	ug/L	1.0	0.97	1		07/06/09 13:24	75-00-3	
Chloroform	**<1.3**	ug/L	5.0	1.3	1		07/06/09 13:24	67-66-3	
Chloromethane	**<0.24**	ug/L	1.0	0.24	1		07/06/09 13:24	74-87-3	
Dibromochloromethane	**<0.81**	ug/L	1.0	0.81	1		07/06/09 13:24	124-48-1	
1,1-Dichloroethane	**<0.75**	ug/L	1.0	0.75	1		07/06/09 13:24	75-34-3	
1,2-Dichloroethane	**<0.36**	ug/L	1.0	0.36	1		07/06/09 13:24	107-06-2	
1,1-Dichloroethene	**<0.57**	ug/L	1.0	0.57	1		07/06/09 13:24	75-35-4	
cis-1,2-Dichloroethene	**<0.83**	ug/L	1.0	0.83	1		07/06/09 13:24	156-59-2	
trans-1,2-Dichloroethene	**<0.89**	ug/L	1.0	0.89	1		07/06/09 13:24	156-60-5	
1,2-Dichloropropane	**<0.49**	ug/L	1.0	0.49	1		07/06/09 13:24	78-87-5	
cis-1,3-Dichloropropene	**<0.20**	ug/L	1.0	0.20	1		07/06/09 13:24	10061-01-5	
trans-1,3-Dichloropropene	**<0.19**	ug/L	1.0	0.19	1		07/06/09 13:24	10061-02-6	
Ethylbenzene	**<0.54**	ug/L	1.0	0.54	1		07/06/09 13:24	100-41-4	
2-Hexanone	**<2.0**	ug/L	5.0	2.0	1		07/06/09 13:24	591-78-6	
Methylene Chloride	**<0.43**	ug/L	1.0	0.43	1		07/06/09 13:24	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<1.2**	ug/L	5.0	1.2	1		07/06/09 13:24	108-10-1	
Styrene	**<0.86**	ug/L	1.0	0.86	1		07/06/09 13:24	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.20**	ug/L	1.0	0.20	1		07/06/09 13:24	79-34-5	
Tetrachloroethene	**<0.45**	ug/L	1.0	0.45	1		07/06/09 13:24	127-18-4	
Toluene	**0.73J**	ug/L	1.0	0.67	1		07/06/09 13:24	108-88-3	
1,1,1-Trichloroethane	**<0.90**	ug/L	1.0	0.90	1		07/06/09 13:24	71-55-6	
1,1,2-Trichloroethane	**<0.42**	ug/L	1.0	0.42	1		07/06/09 13:24	79-00-5	
Trichloroethene	**<0.48**	ug/L	1.0	0.48	1		07/06/09 13:24	79-01-6	
Vinyl chloride	**<0.18**	ug/L	1.0	0.18	1		07/06/09 13:24	75-01-4	
Xylene (Total)	**<2.6**	ug/L	3.0	2.6	1		07/06/09 13:24	1330-20-7	
4-Bromofluorobenzene (S)	92	%	70-130		1		07/06/09 13:24	460-00-4	
Dibromofluoromethane (S)	93	%	70-130		1		07/06/09 13:24	1868-53-7	
Toluene-d8 (S)	101	%	70-130		1		07/06/09 13:24	2037-26-5	

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QUALITY CONTROL DATA

Project: 71238.40 SANGAMO PLANT SITE
Pace Project No.: 4019402

QC Batch: MSV/4936 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 4019402003, 4019402004, 4019402005, 4019402006, 4019402007, 4019402008, 4019402009, 4019402010, 4019402011, 4019402012, 4019402013, 4019402014, 4019402015, 4019402016, 4019402017, 4019402018, 4019402019, 4019402020, 4019402021, 4019402022

METHOD BLANK: 178315 Matrix: Water
Associated Lab Samples: 4019402003, 4019402004, 4019402005, 4019402006, 4019402007, 4019402008, 4019402009, 4019402010, 4019402011, 4019402012, 4019402013, 4019402014, 4019402015, 4019402016, 4019402017, 4019402018, 4019402019, 4019402020, 4019402021, 4019402022

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	<0.90	1.0	07/06/09 08:45	
1,1,2,2-Tetrachloroethane	ug/L	<0.20	1.0	07/06/09 08:45	
1,1,2-Trichloroethane	ug/L	<0.42	1.0	07/06/09 08:45	
1,1-Dichloroethane	ug/L	<0.75	1.0	07/06/09 08:45	
1,1-Dichloroethene	ug/L	<0.57	1.0	07/06/09 08:45	
1,2-Dichloroethane	ug/L	<0.36	1.0	07/06/09 08:45	
1,2-Dichloropropane	ug/L	<0.49	1.0	07/06/09 08:45	
2-Butanone (MEK)	ug/L	<4.3	20.0	07/06/09 08:45	
2-Hexanone	ug/L	<2.0	5.0	07/06/09 08:45	
4-Methyl-2-pentanone (MIBK)	ug/L	<1.2	5.0	07/06/09 08:45	
Acetone	ug/L	<5.0	20.0	07/06/09 08:45	
Benzene	ug/L	<0.41	1.0	07/06/09 08:45	
Bromodichloromethane	ug/L	<0.56	1.0	07/06/09 08:45	
Bromoform	ug/L	<0.94	1.0	07/06/09 08:45	
Bromomethane	ug/L	<0.91	1.0	07/06/09 08:45	
Carbon disulfide	ug/L	<0.66	1.0	07/06/09 08:45	
Carbon tetrachloride	ug/L	<0.49	1.0	07/06/09 08:45	
Chlorobenzene	ug/L	<0.41	1.0	07/06/09 08:45	
Chloroethane	ug/L	<0.97	1.0	07/06/09 08:45	
Chloroform	ug/L	<1.3	5.0	07/06/09 08:45	
Chloromethane	ug/L	<0.24	1.0	07/06/09 08:45	
cis-1,2-Dichloroethene	ug/L	<0.83	1.0	07/06/09 08:45	
cis-1,3-Dichloropropene	ug/L	<0.20	1.0	07/06/09 08:45	
Dibromochloromethane	ug/L	<0.81	1.0	07/06/09 08:45	
Ethylbenzene	ug/L	<0.54	1.0	07/06/09 08:45	
Methylene Chloride	ug/L	<0.43	1.0	07/06/09 08:45	
Styrene	ug/L	<0.86	1.0	07/06/09 08:45	
Tetrachloroethene	ug/L	<0.45	1.0	07/06/09 08:45	
Toluene	ug/L	<0.67	1.0	07/06/09 08:45	
trans-1,2-Dichloroethene	ug/L	<0.89	1.0	07/06/09 08:45	
trans-1,3-Dichloropropene	ug/L	<0.19	1.0	07/06/09 08:45	
Trichloroethene	ug/L	<0.48	1.0	07/06/09 08:45	
Vinyl chloride	ug/L	<0.18	1.0	07/06/09 08:45	
Xylene (Total)	ug/L	<2.6	3.0	07/06/09 08:45	
4-Bromofluorobenzene (S)	%	92	70-130	07/06/09 08:45	
Dibromofluoromethane (S)	%	98	70-130	07/06/09 08:45	
Toluene-d8 (S)	%	93	70-130	07/06/09 08:45	

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QUALITY CONTROL DATA

Project: 71238.40 SANGAMO PLANT SITE
Pace Project No.: 4019402

LABORATORY CONTROL SAMPLE & LCSD: 178316 178317

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/L	50	50.4	53.9	101	108	70-132	7	20	
1,1,2,2-Tetrachloroethane	ug/L	50	42.7	43.9	85	88	69-130	3	20	
1,1,2-Trichloroethane	ug/L	50	47.9	47.6	96	95	70-130	.6	20	
1,1-Dichloroethane	ug/L	50	51.1	51.0	102	102	70-130	.2	20	
1,1-Dichloroethene	ug/L	50	48.8	50.1	98	100	70-130	3	20	
1,2-Dichloroethane	ug/L	50	53.0	53.2	106	106	70-134	.2	20	
1,2-Dichloropropane	ug/L	50	50.7	50.1	101	100	70-130	1	20	
2-Butanone (MEK)	ug/L	50	47.7	47.7	95	95	36-181	.006	35	
2-Hexanone	ug/L	50	46.7	46.1	93	92	46-171	1	27	
4-Methyl-2-pentanone (MIBK)	ug/L	50	46.1	47.3	92	95	50-150	3	20	
Acetone	ug/L	50	45.6	45.6	91	91	10-200	.06	36	
Benzene	ug/L	50	50.3	49.0	101	98	70-131	3	20	
Bromodichloromethane	ug/L	50	52.0	53.7	104	107	70-130	3	20	
Bromoform	ug/L	50	46.3	47.1	93	94	70-130	2	20	
Bromomethane	ug/L	50	46.2	46.2	92	92	23-200	.06	20	
Carbon disulfide	ug/L	50	49.1	49.9	98	100	70-138	2	20	
Carbon tetrachloride	ug/L	50	46.6	50.4	93	101	70-144	8	20	
Chlorobenzene	ug/L	50	49.1	49.6	98	99	70-130	1	20	
Chloroethane	ug/L	50	49.7	49.5	99	99	70-136	.3	20	
Chloroform	ug/L	50	51.2	52.5	102	105	70-130	2	20	
Chloromethane	ug/L	50	49.5	49.7	99	99	54-148	.3	20	
cis-1,2-Dichloroethene	ug/L	50	47.9	49.1	96	98	70-130	2	20	
cis-1,3-Dichloropropene	ug/L	50	49.9	52.9	100	106	70-130	6	20	
Dibromochloromethane	ug/L	50	45.9	47.0	92	94	70-130	2	20	
Ethylbenzene	ug/L	50	51.6	51.4	103	103	70-130	.4	20	
Methylene Chloride	ug/L	50	50.6	49.3	101	99	66-130	3	20	
Styrene	ug/L	50	46.7	46.5	93	93	70-130	.4	20	
Tetrachloroethene	ug/L	50	51.5	51.4	103	103	75-130	.1	20	
Toluene	ug/L	50	49.9	50.2	100	100	70-130	.6	20	
trans-1,2-Dichloroethene	ug/L	50	52.3	51.7	105	103	70-130	1	20	
trans-1,3-Dichloropropene	ug/L	50	42.9	44.8	86	90	70-130	4	20	
Trichloroethene	ug/L	50	51.4	52.7	103	105	70-130	2	20	
Vinyl chloride	ug/L	50	49.5	48.9	99	98	63-141	1	20	
Xylene (Total)	ug/L	150	151	149	100	99	70-130	1	20	
4-Bromofluorobenzene (S)	%				95	92	70-130			
Dibromofluoromethane (S)	%				97	95	70-130			
Toluene-d8 (S)	%				94	94	70-130			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 178422 178423

Parameter	Units	4019402006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1-Trichloroethane	ug/L	<18.0	1000	1000	1050	1070	105	107	70-137	2	20	
1,1,2,2-Tetrachloroethane	ug/L	<4.0	1000	1000	854	884	85	88	67-130	3	20	
1,1,2-Trichloroethane	ug/L	<8.4	1000	1000	918	927	92	93	70-130	1	20	
1,1-Dichloroethane	ug/L	<15.0	1000	1000	1030	1030	103	103	70-130	.7	20	
1,1-Dichloroethene	ug/L	<11.4	1000	1000	1000	1000	100	100	70-130	.2	20	

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Project: 71238.40 SANGAMO PLANT SITE
Pace Project No.: 4019402

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 178422 178423

Parameter	Units	4019402006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dichloroethane	ug/L	<7.2	1000	1000	1050	1080	105	108	69-134	3	20	
1,2-Dichloropropane	ug/L	<9.8	1000	1000	1020	1010	102	101	70-130	1	20	
2-Butanone (MEK)	ug/L	<86.0	1000	1000	940	995	94	99	36-181	6	35	
2-Hexanone	ug/L	<39.4	1000	1000	888	879	89	88	46-171	1	27	
4-Methyl-2-pentanone (MIBK)	ug/L	<24.0	1000	1000	952	931	95	93	50-150	2	20	
Acetone	ug/L	<99.8	1000	1000	894	815	89	82	10-200	9	36	
Benzene	ug/L	<8.2	1000	1000	1000	1010	100	101	69-131	1	20	
Bromodichloromethane	ug/L	<11.2	1000	1000	1070	1050	107	105	70-130	1	20	
Bromoform	ug/L	<18.8	1000	1000	896	941	90	94	68-130	5	20	
Bromomethane	ug/L	<18.2	1000	1000	1000	1080	100	108	22-200	8	20	
Carbon disulfide	ug/L	<13.2	1000	1000	899	928	90	93	68-138	3	20	
Carbon tetrachloride	ug/L	<9.8	1000	1000	992	992	99	99	70-144	.02	20	
Chlorobenzene	ug/L	<8.2	1000	1000	969	990	97	99	70-130	2	20	
Chloroethane	ug/L	<19.4	1000	1000	1010	991	101	99	66-136	2	20	
Chloroform	ug/L	<26.0	1000	1000	1050	1030	105	103	70-130	1	20	
Chloromethane	ug/L	<4.8	1000	1000	948	969	95	97	54-148	2	20	
cis-1,2-Dichloroethene	ug/L	20.7	1000	1000	979	988	96	97	70-130	.9	20	
cis-1,3-Dichloropropene	ug/L	<4.0	1000	1000	1040	1030	104	103	70-130	2	20	
Dibromochloromethane	ug/L	<16.2	1000	1000	924	916	92	92	70-130	1	20	
Ethylbenzene	ug/L	<10.8	1000	1000	1030	1030	103	103	70-130	.07	20	
Methylene Chloride	ug/L	<8.6	1000	1000	997	1010	100	101	64-130	1	20	
Styrene	ug/L	<17.2	1000	1000	928	930	93	93	43-130	.2	20	
Tetrachloroethene	ug/L	970	1000	1000	1940	1950	97	98	70-130	.6	20	
Toluene	ug/L	<13.4	1000	1000	998	999	100	100	70-130	.06	20	
trans-1,2-Dichloroethene	ug/L	<17.8	1000	1000	1030	1030	103	103	70-130	.7	20	
trans-1,3-Dichloropropene	ug/L	<3.8	1000	1000	874	888	87	89	70-130	2	20	
Trichloroethene	ug/L	1570	1000	1000	2670	2610	110	104	70-130	2	20	
Vinyl chloride	ug/L	<3.6	1000	1000	974	982	97	98	59-141	.8	20	
Xylene (Total)	ug/L	<52.0	3000	3000	2970	2980	99	99	70-130	.5	20	
4-Bromofluorobenzene (S)	%						90	94	70-130			
Dibromofluoromethane (S)	%						95	97	70-130			
Toluene-d8 (S)	%						92	94	70-130			

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QUALITY CONTROL DATA

Project: 71238.40 SANGAMO PLANT SITE
Pace Project No.: 4019402

QC Batch: MSV/4938 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 4019402023, 4019402024, 4019402025, 4019402026, 4019402027, 4019402028, 4019402029, 4019402030, 4019402031, 4019402032, 4019402033, 4019402034, 4019402035, 4019402036, 4019402037, 4019402038, 4019402039, 4019402040, 4019402041, 4019402042

METHOD BLANK: 178318 Matrix: Water
Associated Lab Samples: 4019402023, 4019402024, 4019402025, 4019402026, 4019402027, 4019402028, 4019402029, 4019402030, 4019402031, 4019402032, 4019402033, 4019402034, 4019402035, 4019402036, 4019402037, 4019402038, 4019402039, 4019402040, 4019402041, 4019402042

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	<0.90	1.0	07/06/09 11:27	
1,1,2,2-Tetrachloroethane	ug/L	<0.20	1.0	07/06/09 11:27	
1,1,2-Trichloroethane	ug/L	<0.42	1.0	07/06/09 11:27	
1,1-Dichloroethane	ug/L	<0.75	1.0	07/06/09 11:27	
1,1-Dichloroethene	ug/L	<0.57	1.0	07/06/09 11:27	
1,2-Dichloroethane	ug/L	<0.36	1.0	07/06/09 11:27	
1,2-Dichloropropane	ug/L	<0.49	1.0	07/06/09 11:27	
2-Butanone (MEK)	ug/L	<4.3	20.0	07/06/09 11:27	
2-Hexanone	ug/L	<2.0	5.0	07/06/09 11:27	
4-Methyl-2-pentanone (MIBK)	ug/L	<1.2	5.0	07/06/09 11:27	
Acetone	ug/L	<5.0	20.0	07/06/09 11:27	
Benzene	ug/L	<0.41	1.0	07/06/09 11:27	
Bromodichloromethane	ug/L	<0.56	1.0	07/06/09 11:27	
Bromoform	ug/L	<0.94	1.0	07/06/09 11:27	
Bromomethane	ug/L	<0.91	1.0	07/06/09 11:27	
Carbon disulfide	ug/L	<0.66	1.0	07/06/09 11:27	
Carbon tetrachloride	ug/L	<0.49	1.0	07/06/09 11:27	
Chlorobenzene	ug/L	<0.41	1.0	07/06/09 11:27	
Chloroethane	ug/L	<0.97	1.0	07/06/09 11:27	
Chloroform	ug/L	<1.3	5.0	07/06/09 11:27	
Chloromethane	ug/L	<0.24	1.0	07/06/09 11:27	
cis-1,2-Dichloroethene	ug/L	<0.83	1.0	07/06/09 11:27	
cis-1,3-Dichloropropene	ug/L	<0.20	1.0	07/06/09 11:27	
Dibromochloromethane	ug/L	<0.81	1.0	07/06/09 11:27	
Ethylbenzene	ug/L	<0.54	1.0	07/06/09 11:27	
Methylene Chloride	ug/L	<0.43	1.0	07/06/09 11:27	
Styrene	ug/L	<0.86	1.0	07/06/09 11:27	
Tetrachloroethene	ug/L	<0.45	1.0	07/06/09 11:27	
Toluene	ug/L	<0.67	1.0	07/06/09 11:27	
trans-1,2-Dichloroethene	ug/L	<0.89	1.0	07/06/09 11:27	
trans-1,3-Dichloropropene	ug/L	<0.19	1.0	07/06/09 11:27	
Trichloroethene	ug/L	<0.48	1.0	07/06/09 11:27	
Vinyl chloride	ug/L	<0.18	1.0	07/06/09 11:27	
Xylene (Total)	ug/L	<2.6	3.0	07/06/09 11:27	
4-Bromofluorobenzene (S)	%	93	70-130	07/06/09 11:27	
Dibromofluoromethane (S)	%	93	70-130	07/06/09 11:27	
Toluene-d8 (S)	%	102	70-130	07/06/09 11:27	

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QUALITY CONTROL DATA

Project: 71238.40 SANGAMO PLANT SITE
Pace Project No.: 4019402

LABORATORY CONTROL SAMPLE & LCSD: 178319 178320

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/L	50	42.9	42.3	86	85	70-132	1	20	
1,1,2,2-Tetrachloroethane	ug/L	50	40.8	40.3	82	81	69-130	1	20	
1,1,2-Trichloroethane	ug/L	50	47.2	46.2	94	92	70-130	2	20	
1,1-Dichloroethane	ug/L	50	46.3	46.9	93	94	70-130	1	20	
1,1-Dichloroethene	ug/L	50	44.7	44.4	89	89	70-130	.7	20	
1,2-Dichloroethane	ug/L	50	40.6	40.8	81	82	70-134	.4	20	
1,2-Dichloropropane	ug/L	50	47.8	48.6	96	97	70-130	2	20	
2-Butanone (MEK)	ug/L	50	40.5	42.6	81	85	36-181	5	35	
2-Hexanone	ug/L	50	42.4	43.0	85	86	46-171	2	27	
4-Methyl-2-pentanone (MIBK)	ug/L	50	43.8	44.2	88	88	50-150	.9	20	
Acetone	ug/L	50	31.3	35.1	63	70	10-200	11	36	
Benzene	ug/L	50	47.1	47.3	94	95	70-131	.5	20	
Bromodichloromethane	ug/L	50	42.5	42.5	85	85	70-130	.03	20	
Bromoform	ug/L	50	50.1	49.2	100	98	70-130	2	20	
Bromomethane	ug/L	50	39.5	40.3	79	81	23-200	2	20	
Carbon disulfide	ug/L	50	42.2	42.5	84	85	70-138	.7	20	
Carbon tetrachloride	ug/L	50	44.2	43.7	88	87	70-144	1	20	
Chlorobenzene	ug/L	50	50.4	50.7	101	101	70-130	.5	20	
Chloroethane	ug/L	50	42.0	43.7	84	87	70-136	4	20	
Chloroform	ug/L	50	44.4	43.9	89	88	70-130	1	20	
Chloromethane	ug/L	50	48.1	49.7	96	99	54-148	3	20	
cis-1,2-Dichloroethene	ug/L	50	45.6	45.2	91	90	70-130	1	20	
cis-1,3-Dichloropropene	ug/L	50	45.7	46.7	91	93	70-130	2	20	
Dibromochloromethane	ug/L	50	44.5	43.4	89	87	70-130	2	20	
Ethylbenzene	ug/L	50	48.7	48.6	97	97	70-130	.03	20	
Methylene Chloride	ug/L	50	46.5	46.7	93	93	66-130	.4	20	
Styrene	ug/L	50	45.7	45.1	91	90	70-130	1	20	
Tetrachloroethene	ug/L	50	55.8	56.2	112	112	75-130	.8	20	
Toluene	ug/L	50	50.0	50.0	100	100	70-130	.02	20	
trans-1,2-Dichloroethene	ug/L	50	45.1	46.0	90	92	70-130	2	20	
trans-1,3-Dichloropropene	ug/L	50	45.9	44.7	92	89	70-130	3	20	
Trichloroethene	ug/L	50	45.6	46.2	91	92	70-130	1	20	
Vinyl chloride	ug/L	50	44.6	44.9	89	90	63-141	.6	20	
Xylene (Total)	ug/L	150	151	150	101	100	70-130	.9	20	
4-Bromofluorobenzene (S)	%				93	94	70-130			
Dibromofluoromethane (S)	%				94	91	70-130			
Toluene-d8 (S)	%				103	102	70-130			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 178467 178468

Parameter	Units	4019402037 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1-Trichloroethane	ug/L	<0.90	50	50	43.4	43.2	87	86	70-137	.4	20	
1,1,2,2-Tetrachloroethane	ug/L	<0.20	50	50	41.4	41.2	83	82	67-130	.5	20	
1,1,2-Trichloroethane	ug/L	<0.42	50	50	48.6	46.5	97	93	70-130	5	20	
1,1-Dichloroethane	ug/L	<0.75	50	50	47.9	47.9	96	96	70-130	.03	20	
1,1-Dichloroethene	ug/L	<0.57	50	50	46.7	46.7	93	93	70-130	.1	20	

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QUALITY CONTROL DATA

Project: 71238.40 SANGAMO PLANT SITE
Pace Project No.: 4019402

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 178467 178468

Parameter	Units	4019402037 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dichloroethane	ug/L	<0.36	50	50	41.6	41.6	83	83	69-134	.09	20	
1,2-Dichloropropane	ug/L	<0.49	50	50	48.9	50.2	98	100	70-130	3	20	
2-Butanone (MEK)	ug/L	<4.3	50	50	45.0	44.8	90	90	36-181	.5	35	
2-Hexanone	ug/L	<2.0	50	50	43.8	44.8	88	90	46-171	2	27	
4-Methyl-2-pentanone (MIBK)	ug/L	<1.2	50	50	45.1	47.4	90	95	50-150	5	20	
Acetone	ug/L	6.0J	50	50	40.4	39.7	69	67	10-200	2	36	
Benzene	ug/L	<0.41	50	50	49.9	48.7	100	97	69-131	2	20	
Bromodichloromethane	ug/L	<0.56	50	50	42.6	43.4	85	87	70-130	2	20	
Bromoform	ug/L	<0.94	50	50	50.2	49.8	100	100	68-130	.9	20	
Bromomethane	ug/L	<0.91	50	50	41.9	41.1	84	82	22-200	2	20	
Carbon disulfide	ug/L	<0.66	50	50	41.1	40.9	82	82	68-138	.5	20	
Carbon tetrachloride	ug/L	<0.49	50	50	45.1	44.3	90	89	70-144	2	20	
Chlorobenzene	ug/L	<0.41	50	50	51.5	50.6	103	101	70-130	2	20	
Chloroethane	ug/L	<0.97	50	50	46.8	46.0	94	92	66-136	2	20	
Chloroform	ug/L	<1.3	50	50	45.6	44.4	91	89	70-130	3	20	
Chloromethane	ug/L	<0.24	50	50	51.0	51.0	102	102	54-148	.04	20	
cis-1,2-Dichloroethene	ug/L	115	50	50	165	165	100	100	70-130	.07	20	
cis-1,3-Dichloropropene	ug/L	<0.20	50	50	46.1	46.3	92	93	70-130	.5	20	
Dibromochloromethane	ug/L	<0.81	50	50	44.7	43.7	89	87	70-130	2	20	
Ethylbenzene	ug/L	<0.54	50	50	49.5	48.6	99	97	70-130	2	20	
Methylene Chloride	ug/L	<0.43	50	50	48.7	47.8	97	96	64-130	2	20	
Styrene	ug/L	<0.86	50	50	46.4	45.9	93	92	43-130	1	20	
Tetrachloroethene	ug/L	40.5	50	50	101	100	121	119	70-130	.6	20	
Toluene	ug/L	11.9	50	50	62.6	62.0	101	100	70-130	.9	20	
trans-1,2-Dichloroethene	ug/L	<0.89	50	50	47.6	46.0	95	92	70-130	3	20	
trans-1,3-Dichloropropene	ug/L	<0.19	50	50	45.9	44.2	92	88	70-130	4	20	
Trichloroethene	ug/L	16.2	50	50	65.6	66.3	99	100	70-130	1	20	
Vinyl chloride	ug/L	2.1	50	50	48.1	49.2	92	94	59-141	2	20	
Xylene (Total)	ug/L	<2.6	150	150	151	149	101	99	70-130	1	20	
4-Bromofluorobenzene (S)	%						94	91	70-130			
Dibromofluoromethane (S)	%						94	94	70-130			
Toluene-d8 (S)	%						102	103	70-130			

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QUALITY CONTROL DATA

Project: 71238.40 SANGAMO PLANT SITE
Pace Project No.: 4019402

QC Batch: MSV/4949
QC Batch Method: EPA 8260
Analysis Method: EPA 8260
Analysis Description: 8260 MSV
Associated Lab Samples: 4019402001, 4019402002

METHOD BLANK: 178577
Matrix: Water
Associated Lab Samples: 4019402001, 4019402002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	<0.90	1.0	07/07/09 08:18	
1,1,2,2-Tetrachloroethane	ug/L	<0.20	1.0	07/07/09 08:18	
1,1,2-Trichloroethane	ug/L	<0.42	1.0	07/07/09 08:18	
1,1-Dichloroethane	ug/L	<0.75	1.0	07/07/09 08:18	
1,1-Dichloroethene	ug/L	<0.57	1.0	07/07/09 08:18	
1,2-Dichloroethane	ug/L	<0.36	1.0	07/07/09 08:18	
1,2-Dichloropropane	ug/L	<0.49	1.0	07/07/09 08:18	
2-Butanone (MEK)	ug/L	<4.3	20.0	07/07/09 08:18	
2-Hexanone	ug/L	<2.0	5.0	07/07/09 08:18	
4-Methyl-2-pentanone (MIBK)	ug/L	<1.2	5.0	07/07/09 08:18	
Acetone	ug/L	<5.0	20.0	07/07/09 08:18	
Benzene	ug/L	<0.41	1.0	07/07/09 08:18	
Bromodichloromethane	ug/L	<0.56	1.0	07/07/09 08:18	
Bromoform	ug/L	<0.94	1.0	07/07/09 08:18	
Bromomethane	ug/L	<0.91	1.0	07/07/09 08:18	
Carbon disulfide	ug/L	<0.66	1.0	07/07/09 08:18	
Carbon tetrachloride	ug/L	<0.49	1.0	07/07/09 08:18	
Chlorobenzene	ug/L	<0.41	1.0	07/07/09 08:18	
Chloroethane	ug/L	<0.97	1.0	07/07/09 08:18	
Chloroform	ug/L	<1.3	5.0	07/07/09 08:18	
Chloromethane	ug/L	<0.24	1.0	07/07/09 08:18	
cis-1,2-Dichloroethene	ug/L	<0.83	1.0	07/07/09 08:18	
cis-1,3-Dichloropropene	ug/L	<0.20	1.0	07/07/09 08:18	
Dibromochloromethane	ug/L	<0.81	1.0	07/07/09 08:18	
Ethylbenzene	ug/L	<0.54	1.0	07/07/09 08:18	
Methylene Chloride	ug/L	<0.43	1.0	07/07/09 08:18	
Styrene	ug/L	<0.86	1.0	07/07/09 08:18	
Tetrachloroethene	ug/L	<0.45	1.0	07/07/09 08:18	
Toluene	ug/L	<0.67	1.0	07/07/09 08:18	
trans-1,2-Dichloroethene	ug/L	<0.89	1.0	07/07/09 08:18	
trans-1,3-Dichloropropene	ug/L	<0.19	1.0	07/07/09 08:18	
Trichloroethene	ug/L	<0.48	1.0	07/07/09 08:18	
Vinyl chloride	ug/L	<0.18	1.0	07/07/09 08:18	
Xylene (Total)	ug/L	<2.6	3.0	07/07/09 08:18	
4-Bromofluorobenzene (S)	%	93	70-130	07/07/09 08:18	
Dibromofluoromethane (S)	%	95	70-130	07/07/09 08:18	
Toluene-d8 (S)	%	95	70-130	07/07/09 08:18	

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QUALITY CONTROL DATA

Project: 71238.40 SANGAMO PLANT SITE
Pace Project No.: 4019402

LABORATORY CONTROL SAMPLE & LCSD: 178578 178579

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/L	50	53.1	53.1	106	106	70-132	.02	20	
1,1,2,2-Tetrachloroethane	ug/L	50	44.3	45.0	89	90	69-130	2	20	
1,1,2-Trichloroethane	ug/L	50	48.4	48.1	97	96	70-130	.5	20	
1,1-Dichloroethane	ug/L	50	51.0	49.6	102	99	70-130	3	20	
1,1-Dichloroethene	ug/L	50	49.4	49.0	99	98	70-130	.9	20	
1,2-Dichloroethane	ug/L	50	54.2	53.2	108	106	70-134	2	20	
1,2-Dichloropropane	ug/L	50	51.1	49.0	102	98	70-130	4	20	
2-Butanone (MEK)	ug/L	50	52.2	49.4	104	99	36-181	5	35	
2-Hexanone	ug/L	50	52.0	47.4	104	95	46-171	9	27	
4-Methyl-2-pentanone (MIBK)	ug/L	50	47.6	49.0	95	98	50-150	3	20	
Acetone	ug/L	50	53.3	43.3	107	87	10-200	21	36	
Benzene	ug/L	50	50.0	49.3	100	99	70-131	2	20	
Bromodichloromethane	ug/L	50	55.5	54.3	111	109	70-130	2	20	
Bromoform	ug/L	50	47.9	48.7	96	97	70-130	2	20	
Bromomethane	ug/L	50	47.0	48.8	94	98	23-200	4	20	
Carbon disulfide	ug/L	50	48.8	47.9	98	96	70-138	2	20	
Carbon tetrachloride	ug/L	50	49.7	50.8	99	102	70-144	2	20	
Chlorobenzene	ug/L	50	50.6	49.1	101	98	70-130	3	20	
Chloroethane	ug/L	50	48.4	49.0	97	98	70-136	1	20	
Chloroform	ug/L	50	52.8	52.0	106	104	70-130	1	20	
Chloromethane	ug/L	50	48.2	47.2	96	94	54-148	2	20	
cis-1,2-Dichloroethene	ug/L	50	48.6	47.3	97	95	70-130	3	20	
cis-1,3-Dichloropropene	ug/L	50	53.1	53.0	106	106	70-130	.3	20	
Dibromochloromethane	ug/L	50	48.1	48.3	96	97	70-130	.3	20	
Ethylbenzene	ug/L	50	52.6	51.8	105	104	70-130	1	20	
Methylene Chloride	ug/L	50	49.7	49.2	99	98	66-130	1	20	
Styrene	ug/L	50	47.4	46.4	95	93	70-130	2	20	
Tetrachloroethene	ug/L	50	51.5	50.8	103	102	75-130	2	20	
Toluene	ug/L	50	50.7	49.7	101	99	70-130	2	20	
trans-1,2-Dichloroethene	ug/L	50	51.6	50.9	103	102	70-130	1	20	
trans-1,3-Dichloropropene	ug/L	50	43.9	44.9	88	90	70-130	2	20	
Trichloroethene	ug/L	50	54.6	53.9	109	108	70-130	1	20	
Vinyl chloride	ug/L	50	48.0	47.1	96	94	63-141	2	20	
Xylene (Total)	ug/L	150	150	148	100	99	70-130	2	20	
4-Bromofluorobenzene (S)	%				93	93	70-130			
Dibromofluoromethane (S)	%				94	95	70-130			
Toluene-d8 (S)	%				94	94	70-130			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 178618 178619

Parameter	Units	4019402001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1-Trichloroethane	ug/L	<18.0	1000	1000	949	1060	95	106	70-137	11	20	
1,1,2,2-Tetrachloroethane	ug/L	<4.0	1000	1000	860	817	86	82	67-130	5	20	
1,1,2-Trichloroethane	ug/L	<8.4	1000	1000	951	867	95	87	70-130	9	20	
1,1-Dichloroethane	ug/L	<15.0	1000	1000	984	1050	98	105	70-130	6	20	
1,1-Dichloroethene	ug/L	<11.4	1000	1000	972	1060	97	106	70-130	9	20	

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QUALITY CONTROL DATA

Project: 71238.40 SANGAMO PLANT SITE
Pace Project No.: 4019402

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 178618 178619

Parameter	Units	4019402001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dichloroethane	ug/L	<7.2	1000	1000	1040	1060	104	106	69-134	3	20	
1,2-Dichloropropane	ug/L	<9.8	1000	1000	993	1060	99	106	70-130	6	20	
2-Butanone (MEK)	ug/L	<86.0	1000	1000	911	824	91	82	36-181	10	35	
2-Hexanone	ug/L	<39.4	1000	1000	892	815	89	82	46-171	9	27	
4-Methyl-2-pentanone (MIBK)	ug/L	<24.0	1000	1000	955	885	96	88	50-150	8	20	
Acetone	ug/L	<99.8	1000	1000	854	817	85	82	10-200	4	36	
Benzene	ug/L	<8.2	1000	1000	988	992	99	99	69-131	.4	20	
Bromodichloromethane	ug/L	<11.2	1000	1000	995	1080	99	108	70-130	8	20	
Bromoform	ug/L	<18.8	1000	1000	819	818	82	82	68-130	.2	20	
Bromomethane	ug/L	<18.2	1000	1000	931	1070	93	107	22-200	14	20	
Carbon disulfide	ug/L	<13.2	1000	1000	875	987	88	99	68-138	12	20	
Carbon tetrachloride	ug/L	<9.8	1000	1000	846	968	85	97	70-144	13	20	
Chlorobenzene	ug/L	<8.2	1000	1000	988	1010	99	101	70-130	2	20	
Chloroethane	ug/L	<19.4	1000	1000	972	1070	97	107	66-136	9	20	
Chloroform	ug/L	<26.0	1000	1000	1000	1080	100	108	70-130	8	20	
Chloromethane	ug/L	<4.8	1000	1000	889	1010	89	101	54-148	12	20	
cis-1,2-Dichloroethene	ug/L	<16.6	1000	1000	946	1030	95	103	70-130	8	20	
cis-1,3-Dichloropropene	ug/L	<4.0	1000	1000	958	1040	96	104	70-130	8	20	
Dibromochloromethane	ug/L	<16.2	1000	1000	859	858	86	86	70-130	.09	20	
Ethylbenzene	ug/L	<10.8	1000	1000	1020	1030	102	103	70-130	1	20	
Methylene Chloride	ug/L	<8.6	1000	1000	946	1020	95	102	64-130	8	20	
Styrene	ug/L	<17.2	1000	1000	920	932	92	93	43-130	1	20	
Tetrachloroethene	ug/L	894	1000	1000	1940	1930	104	103	70-130	.5	20	
Toluene	ug/L	<13.4	1000	1000	991	993	99	99	70-130	.2	20	
trans-1,2-Dichloroethene	ug/L	<17.8	1000	1000	1020	1090	102	109	70-130	7	20	
trans-1,3-Dichloropropene	ug/L	<3.8	1000	1000	804	784	80	78	70-130	3	20	
Trichloroethene	ug/L	1640	1000	1000	2760	2930	112	129	70-130	6	20	
Vinyl chloride	ug/L	<3.6	1000	1000	949	1040	95	104	59-141	9	20	
Xylene (Total)	ug/L	<52.0	3000	3000	2950	2990	98	100	70-130	1	20	
4-Bromofluorobenzene (S)	%						91	92	70-130			
Dibromofluoromethane (S)	%						93	99	70-130			
Toluene-d8 (S)	%						93	93	70-130			

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Pace Analytical
www.pacelabs.com

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALIFIERS

Project: 71238.40 SANGAMO PLANT SITE
Pace Project No.: 4019402

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

Pace Analytical is NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

U - Indicates the compound was analyzed for, but not detected.

LABORATORIES

PASI-G Pace Analytical Services - Green Bay

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Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 71238.40 SANGAMO PLANT SITE
Pace Project No.: 4019402

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
4019402003	SPRW-602-C	EPA 8260	MSV/4936		
4019402004	SPRW-602-D	EPA 8260	MSV/4936		
4019402005	SPRW-602-E	EPA 8260	MSV/4936		
4019402006	SPRW-602-F	EPA 8260	MSV/4936		
4019402007	SPRW-602-G	EPA 8260	MSV/4936		
4019402008	SPRW-602-H	EPA 8260	MSV/4936		
4019402009	SPRW-602-I	EPA 8260	MSV/4936		
4019402010	SPRW-602-J	EPA 8260	MSV/4936		
4019402011	SPRW-602-K	EPA 8260	MSV/4936		
4019402012	SPRW-202-A	EPA 8260	MSV/4936		
4019402013	SPRW-202-B	EPA 8260	MSV/4936		
4019402014	SPRW-202-C	EPA 8260	MSV/4936		
4019402015	SPRW-202-D	EPA 8260	MSV/4936		
4019402016	SPRW-202-E	EPA 8260	MSV/4936		
4019402017	SPRW-202-F	EPA 8260	MSV/4936		
4019402018	SPRW-202-G	EPA 8260	MSV/4936		
4019402019	SPRW-202-H	EPA 8260	MSV/4936		
4019402020	SPRW-202-I	EPA 8260	MSV/4936		
4019402021	SPRW-204-A	EPA 8260	MSV/4936		
4019402022	SPRW-204-B	EPA 8260	MSV/4936		
4019402023	SPRW-204-C	EPA 8260	MSV/4938		
4019402024	SPRW-303A-A	EPA 8260	MSV/4938		
4019402025	SPRW-303A-B	EPA 8260	MSV/4938		
4019402026	SPRW-303A-C	EPA 8260	MSV/4938		
4019402027	SPRW-303A-D	EPA 8260	MSV/4938		
4019402028	SPRW-303A-E	EPA 8260	MSV/4938		
4019402029	SPRW-303A-F	EPA 8260	MSV/4938		
4019402030	SPRW-301-A	EPA 8260	MSV/4938		
4019402031	SPRW-301-B	EPA 8260	MSV/4938		
4019402032	SPRW-301-C	EPA 8260	MSV/4938		
4019402033	SPRW-301-D	EPA 8260	MSV/4938		
4019402034	SPRW-301-E	EPA 8260	MSV/4938		
4019402035	SPRW-301-F	EPA 8260	MSV/4938		
4019402036	SPRW-401-A	EPA 8260	MSV/4938		
4019402037	SPRW-401-B	EPA 8260	MSV/4938		
4019402038	SPRW-401-C	EPA 8260	MSV/4938		
4019402039	SPRW-401-D	EPA 8260	MSV/4938		
4019402040	SPRW-401-E	EPA 8260	MSV/4938		
4019402041	SPRW-401-F	EPA 8260	MSV/4938		
4019402042	TBLK-09201	EPA 8260	MSV/4938		
4019402001	SPRW-602-A	EPA 8260	MSV/4949		
4019402002	SPRW-602-B	EPA 8260	MSV/4949		

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nelac

RMT

CHAIN OF CUSTODY RECORD

77210

4019402

30 Patewood Drive, Suite 100, Patewood Plaza One, Greenville, SC 29615-3535
Phone 864/281-0030 • Fax 864/281-0288

Project No.: 71238.40

Project/Client: Sangamo Plant Site

Project Manager/Contact Person: Mike Parker / Terry Hertz / Mark Miesfeldt

Lab No.	Yr. 09 Date	Time	Sample Station ID	Total Number of Containers	MATRIX	Analyses Requested: VOCs								Comments:
						Filtered (Yes/No)	N							
						Preserved (Code)	E							
001	6-30	1010	SPRW-602-A	3	GW	X				3-40mL E				* Please Call Mark
002		1020	SPRW-602-B			X								Miesfeldt for Ins-
003		1030	SPRW-602-C			X								tructions
004		1040	SPRW-602-D			X								
005		1050	SPRW-602-E			X								
006		1100	SPRW-602-F			X								
007		1110	SPRW-602-G			X								
008		1120	SPRW-602-H			X								
009		1130	SPPW-602-I			X								
010		1140	SPRW-602-J			X								

PRESERVED CODES
A — NONE
B — HNO_3
C — H_2SO_4
D — NaOH
E — HCl
F — METHANOL
G — _____

SPECIAL INSTRUCTIONS

FEDEX

SAMPLER Relinquished by (Signature) Kurt Arly	Date/Time 7/1/09 1800	Received by (Signature)	Date/Time
Relinquished by (Signature) FedEx	Date/Time 7-2-09 1005	Received by (Signature)	Date/Time 7-2-09 1005
Relinquished by (Signature)	Date/Time	Received by (Signature)	Date/Time

HAZARDS ASSOCIATED WITH SAMPLES
- ☐ Flammable
- ☐ Corrosive
- ☐ Highly Toxic
- ☐ Other (list) _____

Turn Around (circle one) Normal Rush
Report Due _____

(For Lab Use Only)
Receipt Temp:
Temp Blank Y N
Receipt pH (Wet/Metals)

Custody Seal: Present/Absent Intact/Not Intact Seal #s

F-268 (10/08)

WHITE—LABORATORY COPY YELLOW—REPORT APPENDIX PINK—SAMPLER/SUBMITTER

RMT

CHAIN OF CUSTODY RECORD

77211

4019402

30 Patewood Drive, Suite 100, Patewood Plaza One, Greenville, SC 29615-3535
Phone 864/281-0030 • Fax 864/281-0288

Project No. 71238.40

Project/Client: Sangamo Plant Site

Project Manager/Contact Person: Mike Parker / Mark Miesfeldt

Lab No.	Yr. 09 Date	Time	Sample Station ID	Total Number of Containers	MATRIX	Analyses Requested: VOC's	Filtered (Yes/No)	Preserved (Code)	Comments:
							N	E	
011	6/30	1150	SPRW-602-K	3	GW	X			3-40mL E
012		1420	SPRW-202-A			X			
013		1430	SPRW-202-B			X			
014		1440	SPRW-202-C			X			
015		1450	SPRW-202-D			X			
016		1500	SPRW-202-E			X			
017		1510	SPRW-202-F			X			
018		1520	SPRW-202-G			X			
019		1530	SPRW-202-H			X			
020		1540	SPRW-202-I			X			

PRESERVED CODES
A — NONE
B — HNO_3
C — H_2SO_4
D — NaOH
E — HCl
F — METHANOL
G — _____

SPECIAL INSTRUCTIONS

FEDEX

SAMPLER Relinquished by (Signature)	Date/Time	Received by (Signature)	Date/Time
[signature]	7/1/09 1500		
Relinquished by (Signature)	Date/Time	Received by (Signature)	Date/Time
FedEx	7-2-09 1005	[signature]	7-2-09 1005
Relinquished by (Signature)	Date/Time	Received by (Signature)	Date/Time

HAZARDS ASSOCIATED WITH SAMPLES
☐ Flammable
☐ Corrosive
☐ Highly Toxic
☐ Other (list) _____

Turn Around (circle one) Normal Rush
Report Due _____

(For Lab Use Only)
Receipt Temp:
Temp Blank Y N
Receipt pH (Wet/Metals)

Custody Seal: Present/Absent Intact/Not Intact Seal #s

F-268 (10/08)

WHITE—LABORATORY COPY YELLOW—REPORT APPENDIX PINK—SAMPLER/SUBMITTER

RMT

CHAIN OF CUSTODY RECORD

77213

4019402

30 Patewood Drive, Suite 100, Patewood Plaza One, Greenville, SC 29615-3535
Phone 864/281-0030 • Fax 864/281-0288

Project No. 71238.40

Project/Client: Sangamo Plant Site

Project Manager/Contact Person: M. Parker / M. Miesfeldt

Filtered (Yes/No): N

Preserved (Code): E

PRESERVED CODES
A — NONE
B — HNO_3
C — H_2SO_4
D — NaOH
E — HCl
F — METHANOL
G — _____

Lab No.	Yr. 09 Date	Time	Sample Station ID	Total Number of Containers	MATRIX	Analyses Requested VOC's	Comments:
021	6/30	1600	SPRW-204-A	3	GW	X	3-40mL E
022	↓	1610	SPRW-204-B	↓	↓	X	↓
023	↓	1620	SPRW-204-C			X	
024	7/1	1010	SPRW-303A-A			X	
025	↓	1020	SPRW-303A-B			X	
026		1030	SPRW-303A-C			X	
027		1040	SPRW-303A-D			X	
028		1050	SPRW-303A-E			X	
029		1100	SPRW-303A-F			X	
030	↓	1130	SPRW-301-A	↓	↓	X	↓

SPECIAL INSTRUCTIONS

FEDEX

SAMPLER Relinquished by (Signature) Kurt Ashby Date/Time 7/1/09 1800

Received by (Signature) Date/Time

Relinquished by (Signature) FedEx Date/Time 7-2-09 1005

Received by (Signature) Date/Time 7-2-09 1005

Relinquished by (Signature) Date/Time

Received by (Signature) Date/Time

HAZARDS ASSOCIATED WITH SAMPLES
☐ Flammable
☐ Corrosive
☐ Highly Toxic
☐ Other (list) _____

Turn Around (circle one) Normal Rush

Report Due _____

(For Lab Use Only)

Receipt Temp:

Temp Blank Y N

Receipt pH (Wet/Metals)

Custody Seal: Present/Absent Intact/Not Intact Seal #s

F-268 (10/08)

WHITE—LABORATORY COPY YELLOW—REPORT APPENDIX PINK—SAMPLER/SUBMITTER

RMT

CHAIN OF CUSTODY RECORD

77214

4019402

30 Patewood Drive, Suite 100, Patewood Plaza One, Greenville, SC 29615-3535
Phone 864/281-0030 • Fax 864/281-0288

Project No. 71238.40

Project/Client: Sangamo Plant Site

Project Manager/Contact Person: M. Parker / M. Miesfeldt

Filtered (Yes/No): N

Preserved (Code): E

PRESERVED CODES
A — NONE
B — HNO_3
C — H_2SO_4
D — NaOH
E — HCl
F — METHANOL
G — _____

Lab No.	Yr. 09 Date	Time	Sample Station ID	Total Number of Containers	MATRIX	Analyses Requested: VOC's	Comments:
031	7/1	1140	SPRW-301-B	3	GW	X	3-40mL E
032		1150	SPRW-301-C			X	
033		1200	SPRW-301-D			X	
034		1210	SPRW-301-E			X	
035		1220	SPRW-301-F			X	
036		1415	SPRW-401-A			X	SPRW-401-A
037		1425	SPRW-401-B			X	
038		1435	SPRW-401-C			X	
039		1445	SPRW-401-D			X	
040		1455	SPRW-401-E			X	

SPECIAL INSTRUCTIONS

FEDEX

SAMPLER Relinquished by (Signature) Date/Time: Kent Ashley 7/1/09 1800

Received by (Signature) Date/Time:

Relinquished by (Signature) Date/Time: FedEx 7-2-09 1005

Received by (Signature) Date/Time: 7-2-09 1005

Relinquished by (Signature) Date/Time:

Received by (Signature) Date/Time:

HAZARDS ASSOCIATED WITH SAMPLES
- ☐ Flammable
- ☐ Corrosive
- ☐ Highly Toxic
- ☐ Other (list) _____

Turn Around (circle one) Normal Rush

Report Due _____

(For Lab Use Only)

Receipt Temp: Temp Blank Y N

Receipt pH (Wet/Metals)

Custody Seal: Present/Absent Intact/Not Intact Seal #s

F-268 (10/08)

WHITE—LABORATORY COPY YELLOW—REPORT APPENDIX PINK—SAMPLER/SUBMITTER

RMT

CHAIN OF CUSTODY RECORD

77106
4019402

30 Patewood Drive, Suite 100, Patewood Plaza One, Greenville, SC 29615-3535
Phone 864/281-0030 • Fax 864/281-0288

Project No. 71238.40

Project/Client: Sangamo Plant Site

Project Manager/Contact Person: M. Parker / M. Miesfeldt

Lab No.	Yr. 09 Date	Time	Sample Station ID	Total Number of Containers	MATRIX	Analyses Requested: VOC's	Filtered (Yes/No): N	Preserved (Code): E	Comments:
041	7/1	1505	SPRW-401-F	3	GW	X			3-40mL E
042			TBLK-09201	3	DI	X			3-40mL

PRESERVED CODES
A — NONE
B — HNO_3
C — H_2SO_4
D — NaOH
E — HCl
F — METHANOL
G — _____

SPECIAL INSTRUCTIONS

FEDEX

SAMPLER Relinquished by (Signature) Kent Ashley	Date/Time 7/1/09 1800	Received by (Signature)	Date/Time
Relinquished by (Signature) FedEx	Date/Time 7-2-09 0005	Received by (Signature)	Date/Time 7-2-09 0005
Relinquished by (Signature)	Date/Time	Received by (Signature)	Date/Time

HAZARDS ASSOCIATED WITH SAMPLES
- ☐ Flammable
- ☐ Corrosive
- ☐ Highly Toxic
- ☐ Other (list) _____

Turn Around (circle one) Normal Rush
Report Due _____

(For Lab Use Only)
Receipt Temp:
Temp Blank Y N
Receipt pH (Wet/Metals)

Custody Seal: Present/Absent Intact/Not Intact Seal #s

F-268 (10/08)

WHITE—LABORATORY COPY YELLOW—REPORT APPENDIX PINK—SAMPLER/SUBMITTER

Sample Condition Upon Receipt

Pace Analytical

Client Name: RMT Project # 4019402

Courier: ☑ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace Other _____

Tracking #: _____

Optional
Proj. Due Date:
Proj. Name:

Custody Seal on Cooler/Box Present: ☑ yes ☐ no Seals intact: ☑ yes ☐ no

Packing Material: ☐ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other _____

Thermometer Used JB **Type of Ice:** (Wet) Blue None ☐ Samples on ice, cooling process has begun

Cooler Temperature 1° **Biological Tissue is Frozen:** Yes No

Temp should be above freezing to 6°C

Date and Initials of person examining contents: 7-2-09

Comments:

Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☐Yes ☑No ☐N/A	6.
Rush Turn Around Time Requested:	☐Yes ☑No ☐N/A	7.
Sufficient Volume:	☑Yes ☐No ☐N/A	8.
Correct Containers Used:	☑Yes ☐No ☐N/A	9.
-Pace Containers Used:	☑Yes ☐No ☐N/A	
Containers Intact:	☑Yes ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes ☑No ☐N/A	11.
Sample Labels match COC:	☑Yes ☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix: W		
All containers needing preservation have been checked.	☐Yes ☐No ☑N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☐Yes ☐No ☐N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☐Yes ☐No	Initial when completed / Lot # of added preservative
Samples checked for dechlorination:	☐Yes ☐No ☑N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes ☑No ☐N/A	15.
Trip Blank Present:	☑Yes ☐No ☐N/A	16.
Trip Blank Custody Seals Present	☑Yes ☐No ☐N/A	
Pace Trip Blank Lot # (if purchased): _____		

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____ **Date:** 7/2/09

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

Samples Collected 07/06/09

Pace Analytical®
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Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

July 14, 2009

Mark Bailey
RMT Greenville
30 Patewood Drive
Suite100, Patewood Plaza One
Greenville, SC 296153535

RE: Project: 71238.40 SANGAMO
Pace Project No.: 4019524

Dear Mark Bailey:
Enclosed are the analytical results for sample(s) received by the laboratory on July 08, 2009. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Kang Khang

kang.khang@pacelabs.com
Project Manager

Enclosures

cc: Lisa Clark, RMT - GREENVILLE
Terry Hertz, RMT GREENVILLE

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1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

CoC-SIGNED; TEMP-OK; HT-OK; NARR-
SURR- RECS OK ALTHOUGH "DILUTED OUT" FOR PCBs.
MBLKS - 0.63 J ug/Kg METHYLENE CHLORIDE AND
32.4 J ug/Kg PCB-1242. METHYLENE CHLORIDE
NOT DETECTED IN SAMPLE. PCB-1242 WAS DETECTED
IN SAMPLE SEVERAL ORDERS OF MAGNITUDE HIGHER
THAN IN MBLK. NO VALIDATION FLAG ADDED.

July 14, 2009

Mark Bailey
RMT Greenville
30 Patewood Drive
Suite100, Patewood Plaza One
Greenville, SC 296153535

LCS/LCSD - PCB - NO LCSD; LCS RECS OK
- VOC - RECS & RPDs OK EXCEPT FOR 1,1,2,2-TETRACHLOROETHANE WHICH HAD LOW RECS IN BOTH LCS AND LCSD. 1,1,2-TCA WAS NOT DETECTED IN THE SAMPLE

1,1,2,2-TETRACHLOROETHANE IN N15-13701 IS ASSIGNED A "J" FLAG.

RE: Project: 71238.40 SANGAMO
Pace Project No.: 4019524

MS/MSD - NO MS FOR VOCs
- N15-13701 USED FOR PCB MS/MSD; HOWEVER, SPIKE WAS HIGHLY DILUTED & RECOVERY WAS NOT EVALUATED.

Dear Mark Bailey:
Enclosed are the analytical results for sample(s) received by the laboratory on July 08, 2009. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

LAB DUP - FOR % MOISTURE - RPD OK

Sincerely,

Kang Khang

Kang Khang

kang.khang@pacelabs.com
Project Manager

TLH 7/14/09

Enclosures

cc: Lisa Clark, RMT - GREENVILLE
Terry Hertz, RMT GREENVILLE

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CERTIFICATIONS

Project: 71238.40 SANGAMO
Pace Project No.: 4019524

Green Bay Certification IDs

Wisconsin DATCP Certification #: 105-444
Wisconsin DATCP Certification #: 105-444
Wisconsin Certification #: 405132750
Wisconsin Certification #: 405132750
South Carolina Certification #: 83006001
South Carolina Certification #: 83006001
North Dakota Certification #: R-200
North Dakota Certification #: R-150
North Carolina Certification #: 503
North Carolina Certification #: 503
New York Certification #: 11887
New York Certification #: 11888
Minnesota Certification #: 055-999-334
Minnesota Certification #: 055-999-334
Louisiana Certification #: 04169
Louisiana Certification #: 04168
Kentucky Certification #: 83
Kentucky Certification #: 82
Illinois Certification #: 200051
Illinois Certification #: 200050
Florida/NELAP Certification #: E87951
Florida/NELAP Certification #: E87948

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SAMPLE SUMMARY

Project: 71238.40 SANGAMO
Pace Project No.: 4019524

Lab ID	Sample ID	Matrix	Date Collected	Date Received
4019524001	N15-13701	Solid	07/06/09 13:07	07/08/09 09:55

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SAMPLE ANALYTE COUNT

Project: 71238.40 SANGAMO
Pace Project No.: 4019524

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
4019524001	N15-13701	ASTM D2974-87	MRN	1	PASI-G
		EPA 8082	CAH	10	PASI-G
		EPA 8260	JJB	37	PASI-G

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PROJECT NARRATIVE

Project: 71238.40 SANGAMO
Pace Project No.: 4019524

Method: EPA 8082
Description: 8082 GCS PCB
Client: RMT - GREENVILLE
Date: July 14, 2009

General Information:
1 sample was analyzed for EPA 8082. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3541 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

QC Batch: OEXT/4781

S4: Surrogate recovery not evaluated against control limits due to sample dilution.

- MS (Lab ID: 180395)
  - Decachlorobiphenyl (S)
  - Tetrachloro-m-xylene (S)
- MSD (Lab ID: 180396)
  - Decachlorobiphenyl (S)
  - Tetrachloro-m-xylene (S)
- N15-13701 (Lab ID: 4019524001)
  - Decachlorobiphenyl (S)
  - Tetrachloro-m-xylene (S)

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: OEXT/4781

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 4019524001

M6: Matrix spike and Matrix spike duplicate recovery not evaluated against control limits due to sample dilution.

- MS (Lab ID: 180395)
  - PCB-1016 (Aroclor 1016)

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PROJECT NARRATIVE

Project: 71238.40 SANGAMO
Pace Project No.: 4019524

Method: **EPA 8082**
Description: 8082 GCS PCB
Client: RMT - GREENVILLE
Date: July 14, 2009

QC Batch: OEXT/4781

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 4019524001

M6: Matrix spike and Matrix spike duplicate recovery not evaluated against control limits due to sample dilution.

- PCB-1260 (Aroclor 1260)
- MSD (Lab ID: 180396)
  - PCB-1016 (Aroclor 1016)
  - PCB-1260 (Aroclor 1260)

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: 71238.40 SANGAMO
Pace Project No.: 4019524

Method: EPA 8260
Description: 8260 MSV 5035 Low Level
Client: RMT - GREENVILLE
Date: July 14, 2009

General Information:
1 sample was analyzed for EPA 8260. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 5035A with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

QC Batch: MSV/4974

L0: Analyte recovery in the laboratory control sample (LCS) was outside QC limits.

- LCS (Lab ID: 179705)
  - 1,1,2,2-Tetrachloroethane
- LCSD (Lab ID: 179706)
  - 1,1,2,2-Tetrachloroethane

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: MSV/4974

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: 71238.40 SANGAMO
Pace Project No.: 4019524

Method: **ASTM D2974-87**
Description: Percent Moisture
Client: RMT - GREENVILLE
Date: July 14, 2009

General Information:
1 sample was analyzed for ASTM D2974-87. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: 71238.40 SANGAMO
Pace Project No.: 4019524

Sample: N15-13701 **Lab ID: 4019524001** Collected: 07/06/09 13:07 Received: 07/08/09 09:55 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3541								
PCB-1016 (Aroclor 1016)	**<26700**	ug/kg	113000	26700	1000	07/10/09 14:10	07/13/09 10:42	12674-11-2	
PCB-1221 (Aroclor 1221)	**<26700**	ug/kg	113000	26700	1000	07/10/09 14:10	07/13/09 10:42	11104-28-2	
PCB-1232 (Aroclor 1232)	**<26700**	ug/kg	113000	26700	1000	07/10/09 14:10	07/13/09 10:42	11141-16-5	
PCB-1242 (Aroclor 1242)	**667000**	ug/kg	113000	26700	1000	07/10/09 14:10	07/13/09 10:42	53469-21-9	
PCB-1248 (Aroclor 1248)	**<26700**	ug/kg	113000	26700	1000	07/10/09 14:10	07/13/09 10:42	12672-29-6	
PCB-1254 (Aroclor 1254)	**155000**	ug/kg	113000	26700	1000	07/10/09 14:10	07/13/09 10:42	11097-69-1	
PCB-1260 (Aroclor 1260)	**<26700**	ug/kg	113000	26700	1000	07/10/09 14:10	07/13/09 10:42	11096-82-5	
PCB, Total	**822000**	ug/kg	113000	26700	1000	07/10/09 14:10	07/13/09 10:42	1336-36-3	
Tetrachloro-m-xylene (S)	0	%	50-137		1000	07/10/09 14:10	07/13/09 10:42	877-09-8	S4
Decachlorobiphenyl (S)	0	%	56-130		1000	07/10/09 14:10	07/13/09 10:42	2051-24-3	S4
8260 MSV 5035 Low Level	Analytical Method: EPA 8260 Preparation Method: EPA 5035A								
Acetone	**68.9**	ug/kg	21.9	7.3	1	07/09/09 06:55	07/09/09 09:22	67-64-1	
Benzene	**<0.67**	ug/kg	5.5	0.67	1	07/09/09 06:55	07/09/09 09:22	71-43-2	
Bromodichloromethane	**<0.38**	ug/kg	5.5	0.38	1	07/09/09 06:55	07/09/09 09:22	75-27-4	
Bromoform	**<1.1**	ug/kg	5.5	1.1	1	07/09/09 06:55	07/09/09 09:22	75-25-2	
Bromomethane	**<1.2**	ug/kg	5.5	1.2	1	07/09/09 06:55	07/09/09 09:22	74-83-9	
2-Butanone (MEK)	**4.5J**	ug/kg	5.5	2.0	1	07/09/09 06:55	07/09/09 09:22	78-93-3	
Carbon disulfide	**<1.2**	ug/kg	5.5	1.2	1	07/09/09 06:55	07/09/09 09:22	75-15-0	
Carbon tetrachloride	**<0.87**	ug/kg	5.5	0.87	1	07/09/09 06:55	07/09/09 09:22	56-23-5	
Chlorobenzene	**<0.23**	ug/kg	5.5	0.23	1	07/09/09 06:55	07/09/09 09:22	108-90-7	
Chloroethane	**<1.6**	ug/kg	5.5	1.6	1	07/09/09 06:55	07/09/09 09:22	75-00-3	
Chloroform	**<0.59**	ug/kg	5.5	0.59	1	07/09/09 06:55	07/09/09 09:22	67-66-3	
Chloromethane	**<0.93**	ug/kg	5.5	0.93	1	07/09/09 06:55	07/09/09 09:22	74-87-3	
Dibromochloromethane	**<0.77**	ug/kg	5.5	0.77	1	07/09/09 06:55	07/09/09 09:22	124-48-1	
1,1-Dichloroethane	**<0.75**	ug/kg	5.5	0.75	1	07/09/09 06:55	07/09/09 09:22	75-34-3	
1,2-Dichloroethane	**<0.63**	ug/kg	5.5	0.63	1	07/09/09 06:55	07/09/09 09:22	107-06-2	
1,1-Dichloroethene	**<0.57**	ug/kg	5.5	0.57	1	07/09/09 06:55	07/09/09 09:22	75-35-4	
cis-1,2-Dichloroethene	**<1.1**	ug/kg	5.5	1.1	1	07/09/09 06:55	07/09/09 09:22	156-59-2	
trans-1,2-Dichloroethene	**<0.82**	ug/kg	5.5	0.82	1	07/09/09 06:55	07/09/09 09:22	156-60-5	
1,2-Dichloropropane	**<0.70**	ug/kg	5.5	0.70	1	07/09/09 06:55	07/09/09 09:22	78-87-5	
cis-1,3-Dichloropropene	**<0.59**	ug/kg	5.5	0.59	1	07/09/09 06:55	07/09/09 09:22	10061-01-5	
trans-1,3-Dichloropropene	**<0.58**	ug/kg	5.5	0.58	1	07/09/09 06:55	07/09/09 09:22	10061-02-6	
Ethylbenzene	**<0.29**	ug/kg	5.5	0.29	1	07/09/09 06:55	07/09/09 09:22	100-41-4	
2-Hexanone	**<1.4**	ug/kg	5.5	1.4	1	07/09/09 06:55	07/09/09 09:22	591-78-6	
Methylene Chloride	**<0.44**	ug/kg	5.5	0.44	1	07/09/09 06:55	07/09/09 09:22	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<0.93**	ug/kg	5.5	0.93	1	07/09/09 06:55	07/09/09 09:22	108-10-1	
Styrene	**<0.13**	ug/kg	5.5	0.13	1	07/09/09 06:55	07/09/09 09:22	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.81**	ug/kg	5.5	0.81	1	07/09/09 06:55	07/09/09 09:22	79-34-5	L2
Tetrachloroethene	**<1.0**	ug/kg	5.5	1.0	1	07/09/09 06:55	07/09/09 09:22	127-18-4	
Toluene	**<0.93**	ug/kg	5.5	0.93	1	07/09/09 06:55	07/09/09 09:22	108-88-3	
1,1,1-Trichloroethane	**<0.85**	ug/kg	5.5	0.85	1	07/09/09 06:55	07/09/09 09:22	71-55-6	
1,1,2-Trichloroethane	**<0.78**	ug/kg	5.5	0.78	1	07/09/09 06:55	07/09/09 09:22	79-00-5	
Trichloroethene	**<0.63**	ug/kg	5.5	0.63	1	07/09/09 06:55	07/09/09 09:22	79-01-6	
Vinyl chloride	**<0.95**	ug/kg	5.5	0.95	1	07/09/09 06:55	07/09/09 09:22	75-01-4	

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ANALYTICAL RESULTS

Project: 71238.40 SANGAMO
Pace Project No.: 4019524

Sample: N15-13701 **Lab ID: 4019524001** Collected: 07/06/09 13:07 Received: 07/08/09 09:55 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035 Low Level	Analytical Method: EPA 8260 Preparation Method: EPA 5035A								
Xylene (Total)	**<1.8**	ug/kg	16.4	1.8	1	07/09/09 06:55	07/09/09 09:22	1330-20-7	
Dibromofluoromethane (S)	88	%	63-130		1	07/09/09 06:55	07/09/09 09:22	1868-53-7	
Toluene-d8 (S)	95	%	70-130		1	07/09/09 06:55	07/09/09 09:22	2037-26-5	
4-Bromofluorobenzene (S)	89	%	70-130		1	07/09/09 06:55	07/09/09 09:22	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**11.4**	%	0.10	0.10	1		07/09/09 08:02		

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QUALITY CONTROL DATA

Project: 71238.40 SANGAMO
Pace Project No.: 4019524

QC Batch: PMST/2679
QC Batch Method: ASTM D2974-87
Associated Lab Samples: 4019524001

Analysis Method: ASTM D2974-87
Analysis Description: Dry Weight/Percent Moisture

SAMPLE DUPLICATE: 179125

Parameter	Units	4019526023 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	12.8	12.4	3	10	

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QUALITY CONTROL DATA

Project: 71238.40 SANGAMO
Pace Project No.: 4019524

QC Batch: MSV/4974 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV 5035 Low Level
Associated Lab Samples: 4019524001

METHOD BLANK: 179704 Matrix: Solid
Associated Lab Samples: 4019524001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/kg	<0.77	5.0	07/09/09 08:11	
1,1,2,2-Tetrachloroethane	ug/kg	<0.74	5.0	07/09/09 08:11	
1,1,2-Trichloroethane	ug/kg	<0.71	5.0	07/09/09 08:11	
1,1-Dichloroethane	ug/kg	<0.69	5.0	07/09/09 08:11	
1,1-Dichloroethene	ug/kg	<0.52	5.0	07/09/09 08:11	
1,2-Dichloroethane	ug/kg	<0.57	5.0	07/09/09 08:11	
1,2-Dichloropropane	ug/kg	<0.64	5.0	07/09/09 08:11	
2-Butanone (MEK)	ug/kg	<1.8	5.0	07/09/09 08:11	
2-Hexanone	ug/kg	<1.3	5.0	07/09/09 08:11	
4-Methyl-2-pentanone (MIBK)	ug/kg	<0.85	5.0	07/09/09 08:11	
Acetone	ug/kg	<6.7	20.0	07/09/09 08:11	
Benzene	ug/kg	<0.61	5.0	07/09/09 08:11	
Bromodichloromethane	ug/kg	<0.35	5.0	07/09/09 08:11	
Bromoform	ug/kg	<0.99	5.0	07/09/09 08:11	
Bromomethane	ug/kg	<1.1	5.0	07/09/09 08:11	
Carbon disulfide	ug/kg	<1.1	5.0	07/09/09 08:11	
Carbon tetrachloride	ug/kg	<0.80	5.0	07/09/09 08:11	
Chlorobenzene	ug/kg	<0.21	5.0	07/09/09 08:11	
Chloroethane	ug/kg	<1.5	5.0	07/09/09 08:11	
Chloroform	ug/kg	<0.54	5.0	07/09/09 08:11	
Chloromethane	ug/kg	<0.85	5.0	07/09/09 08:11	
cis-1,2-Dichloroethene	ug/kg	<1.0	5.0	07/09/09 08:11	
cis-1,3-Dichloropropene	ug/kg	<0.54	5.0	07/09/09 08:11	
Dibromochloromethane	ug/kg	<0.71	5.0	07/09/09 08:11	
Ethylbenzene	ug/kg	<0.26	5.0	07/09/09 08:11	
Methylene Chloride	ug/kg	0.63J	5.0	07/09/09 08:11	
Styrene	ug/kg	<0.12	5.0	07/09/09 08:11	
Tetrachloroethene	ug/kg	<0.92	5.0	07/09/09 08:11	
Toluene	ug/kg	<0.85	5.0	07/09/09 08:11	
trans-1,2-Dichloroethene	ug/kg	<0.75	5.0	07/09/09 08:11	
trans-1,3-Dichloropropene	ug/kg	<0.53	5.0	07/09/09 08:11	
Trichloroethene	ug/kg	<0.57	5.0	07/09/09 08:11	
Vinyl chloride	ug/kg	<0.87	5.0	07/09/09 08:11	
4-Bromofluorobenzene (S)	%	89	70-130	07/09/09 08:11	
Dibromofluoromethane (S)	%	81	63-130	07/09/09 08:11	
Toluene-d8 (S)	%	96	70-130	07/09/09 08:11	

LABORATORY CONTROL SAMPLE & LCSD: 179705 179706

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/kg	50	48.8	46.4	98	93	70-130	5	20	

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QUALITY CONTROL DATA

Project: 71238.40 SANGAMO
Pace Project No.: 4019524

LABORATORY CONTROL SAMPLE & LCSD: 179705 179706

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,1,2,2-Tetrachloroethane	ug/kg	50	34.1	33.3	68	67	70-130	2	20	L0
1,1,2-Trichloroethane	ug/kg	50	45.3	43.2	91	86	70-130	5	20	
1,1-Dichloroethane	ug/kg	50	41.0	38.3	82	77	67-137	7	20	
1,1-Dichloroethene	ug/kg	50	52.3	50.4	105	101	70-130	4	20	
1,2-Dichloroethane	ug/kg	50	43.4	40.9	87	82	63-134	6	20	
1,2-Dichloropropane	ug/kg	50	43.6	41.8	87	84	70-130	4	20	
2-Butanone (MEK)	ug/kg	50	27.5	28.2	55	56	35-150	2	42	
2-Hexanone	ug/kg	50	36.7	35.6	73	71	42-157	3	20	
4-Methyl-2-pentanone (MIBK)	ug/kg	50	37.6	36.1	75	72	50-150	4	20	
Acetone	ug/kg	50	23.8	21.3	48	43	10-197	11	85	
Benzene	ug/kg	50	43.4	40.8	87	82	70-130	6	20	
Bromodichloromethane	ug/kg	50	49.3	48.0	99	96	70-130	3	20	
Bromoform	ug/kg	50	54.7	52.2	109	104	64-137	5	20	
Bromomethane	ug/kg	50	57.5	52.4	115	105	66-136	9	20	
Carbon disulfide	ug/kg	50	51.2	47.9	102	96	54-154	7	20	
Carbon tetrachloride	ug/kg	50	51.1	48.4	102	97	70-130	5	20	
Chlorobenzene	ug/kg	50	52.8	50.9	106	102	70-130	4	20	
Chloroethane	ug/kg	50	50.6	47.9	101	96	59-140	5	20	
Chloroform	ug/kg	50	44.1	42.0	88	84	69-130	5	20	
Chloromethane	ug/kg	50	46.0	42.8	92	86	27-141	7	20	
cis-1,2-Dichloroethene	ug/kg	50	44.2	41.8	88	84	70-130	6	20	
cis-1,3-Dichloropropene	ug/kg	50	46.2	44.7	92	89	70-130	3	20	
Dibromochloromethane	ug/kg	50	50.2	47.8	100	96	70-130	5	20	
Ethylbenzene	ug/kg	50	48.9	47.9	98	96	70-130	2	20	
Methylene Chloride	ug/kg	50	43.1	40.0	86	80	70-130	8	20	
Styrene	ug/kg	50	49.3	47.7	99	95	70-130	3	20	
Tetrachloroethene	ug/kg	50	61.7	59.7	123	119	67-139	3	20	
Toluene	ug/kg	50	50.7	49.3	101	99	70-130	3	20	
trans-1,2-Dichloroethene	ug/kg	50	44.4	42.6	89	85	70-130	4	20	
trans-1,3-Dichloropropene	ug/kg	50	43.7	42.7	87	85	70-130	2	20	
Trichloroethene	ug/kg	50	53.7	52.5	107	105	70-130	2	20	
Vinyl chloride	ug/kg	50	51.3	48.1	103	96	65-142	6	20	
4-Bromofluorobenzene (S)	%				90	91	70-130			
Dibromofluoromethane (S)	%				81	80	63-130			
Toluene-d8 (S)	%				96	98	70-130			

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QUALITY CONTROL DATA

Project: 71238.40 SANGAMO
Pace Project No.: 4019524

QC Batch: OEXT/4781
QC Batch Method: EPA 3541
Analysis Method: EPA 8082
Analysis Description: 8082 GCS PCB
Associated Lab Samples: 4019524001

METHOD BLANK: 180393 Matrix: Solid
Associated Lab Samples: 4019524001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	<11.8	50.0	07/13/09 08:57	
PCB-1221 (Aroclor 1221)	ug/kg	<11.8	50.0	07/13/09 08:57	
PCB-1232 (Aroclor 1232)	ug/kg	<11.8	50.0	07/13/09 08:57	
PCB-1242 (Aroclor 1242)	ug/kg	32.4J	50.0	07/13/09 08:57	
PCB-1248 (Aroclor 1248)	ug/kg	<11.8	50.0	07/13/09 08:57	
PCB-1254 (Aroclor 1254)	ug/kg	<11.8	50.0	07/13/09 08:57	
PCB-1260 (Aroclor 1260)	ug/kg	<11.8	50.0	07/13/09 08:57	
Decachlorobiphenyl (S)	%	70	56-130	07/13/09 08:57	
Tetrachloro-m-xylene (S)	%	65	50-137	07/13/09 08:57	

LABORATORY CONTROL SAMPLE: 180394

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	250	199	80	70-130	
PCB-1221 (Aroclor 1221)	ug/kg		<11.8			
PCB-1232 (Aroclor 1232)	ug/kg		<11.8			
PCB-1242 (Aroclor 1242)	ug/kg		<11.8			
PCB-1248 (Aroclor 1248)	ug/kg		<11.8			
PCB-1254 (Aroclor 1254)	ug/kg		<11.8			
PCB-1260 (Aroclor 1260)	ug/kg	250	164	65	53-109	
Decachlorobiphenyl (S)	%			75	56-130	
Tetrachloro-m-xylene (S)	%			71	50-137	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 180395 180396

Parameter	Units	4019524001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
PCB-1016 (Aroclor 1016)	ug/kg	<26700	565	565	<26700	<26700	0	0	38-110		21	M6
PCB-1221 (Aroclor 1221)	ug/kg	<26700			<26700	<26700					21	
PCB-1232 (Aroclor 1232)	ug/kg	<26700			<26700	<26700					21	
PCB-1242 (Aroclor 1242)	ug/kg	667000			837000	785000				6	21	
PCB-1248 (Aroclor 1248)	ug/kg	<26700			<26700	<26700					21	
PCB-1254 (Aroclor 1254)	ug/kg	155000			223000	196000				13	21	
PCB-1260 (Aroclor 1260)	ug/kg	<26700	565	565	<26700	<26700	0	0	38-110		21	M6
Decachlorobiphenyl (S)	%						0	0	56-130			S4
Tetrachloro-m-xylene (S)	%						0	0	50-137			S4

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QUALIFIERS

Project: 71238.40 SANGAMO
Pace Project No.: 4019524

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

Pace Analytical is NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

U - Indicates the compound was analyzed for, but not detected.

LABORATORIES

PASI-G	Pace Analytical Services - Green Bay

BATCH QUALIFIERS

Batch: MSV/4974

[M5]	A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

ANALYTE QUALIFIERS

L0	Analyte recovery in the laboratory control sample (LCS) was outside QC limits.
L2	Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results may be biased low.
M6	Matrix spike and Matrix spike duplicate recovery not evaluated against control limits due to sample dilution.
S4	Surrogate recovery not evaluated against control limits due to sample dilution.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 71238.40 SANGAMO
Pace Project No.: 4019524

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
4019524001	**N15-13701**	ASTM D2974-87	PMST/2679		
4019524001	**N15-13701**	EPA 5035A	MSV/4963	EPA 8260	MSV/4974
4019524001	**N15-13701**	EPA 3541	OEXT/4781	EPA 8082	GCSV/2992

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RMT

CHAIN OF CUSTODY RECORD

4019524 77215

30 Patewood Drive, Suite 100, Patewood Plaza One, Greenville, SC 29615-3535
Phone 864/281-0030 • Fax 864/281-0288

Filtered (Yes/No): N N
Preserved (Code): G H

Project No.: 71238.40
Project/Client: SANGAMO.
Project Manager/Contact Person: M/ Parker / D. White / D. Madison

PRESERVED CODES
A — NONE
B — HNO_3
C — H_2SO_4
D — NaOH
E — HCl
F — METHANOL
G — TRACERY

Lab No.	Yr. 09 Date	Time	Sample Station ID	Total Number of Containers	MATRIX	Analyses Requested: VOC's	PCB's							Comments:
001	7/6	1307	N15 - 13701			4	2							2-8oz CL, 1-100mL poly, 3-40mL FEG

SPECIAL INSTRUCTIONS

B6B2875925B1

SAMPLER Relinquished by (Signature)	Date/Time	Received by (Signature)	Date/Time
Larry Jenkins	7-7-09 0900	FedEx	7/7/09 09:00
Relinquished by (Signature)	Date/Time	Received by (Signature)	Date/Time
FedEx	7/8/09 955	[signature]	7/8/09 955
Relinquished by (Signature)	Date/Time	Received by (Signature)	Date/Time

HAZARDS ASSOCIATED WITH SAMPLES
- ☐ Flammable
- ☐ Corrosive
- ☐ Highly Toxic
- ☐ Other (list)

Turn Around (circle one) Normal Rush
Report Due

(For Lab Use Only)
Receipt Temp: Temp Blank Y (N) 2°
Receipt pH (Wet/Metals)

Custody Seal: Present/Absent Intact/Not Intact Seal #s

F-268 (10/08)

WHITE—LABORATORY COPY YELLOW—REPORT APPENDIX PINK—SAMPLER/SUBMITTER

Sample Condition Upon Receipt

Pace Analytical

Client Name: Rmt - Greenville Project # 4019524

Courier: ☑ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace Other _____

Tracking #: _____

Optional: Proj. Due Date: Proj. Name:

Custody Seal on Cooler/Box Present: ☐ yes ☑ no Seals intact: ☐ yes ☐ no

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ None ☑ Other Poly Bag, Foamy

Thermometer Used JB Type of Ice: (Wet) Blue None ☐ Samples on ice, cooling process has begun

Cooler Temperature 2° Biological Tissue is Frozen: Yes No

Date and Initials of person examining contents: 7-8-09

Temp should be above freezing to 6°C Comments:

Chain of Custody Present:	☑Yes	☐No	☐N/A	1.
Chain of Custody Filled Out:	☑Yes	☐No	☐N/A	2.
Chain of Custody Relinquished:	☑Yes	☐No	☐N/A	3.
Sampler Name & Signature on COC:	☑Yes	☐No	☐N/A	4.
Samples Arrived within Hold Time:	☑Yes	☐No	☐N/A	5.
Short Hold Time Analysis (<72hr):	☐Yes	☑No	☐N/A	6.
Rush Turn Around Time Requested:	☐Yes	☑No	☐N/A	7.
Sufficient Volume:	☑Yes	☐No	☐N/A	8.
Correct Containers Used:	☑Yes	☐No	☐N/A	9.
-Pace Containers Used:	☑Yes	☐No	☐N/A	
Containers Intact:	☑Yes	☐No	☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes	☐No	☑N/A	11.
Sample Labels match COC:	☑Yes	☐No	☐N/A	12.
-Includes date/time/ID/Analysis Matrix: S				
All containers needing preservation have been checked.	☐Yes	☐No	☑N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☐Yes	☐No	☐N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☐Yes	☐No		Initial when completed / Lot # of added preservative
Samples checked for dechlorination:	☐Yes	☐No	☑N/A	14.
Headspace in VOA Vials (>6mm):	☑Yes	☐No	☐N/A	15.
Trip Blank Present:	☐Yes	☑No	☐N/A	16.
Trip Blank Custody Seals Present	☐Yes	☐No	☐N/A	
Pace Trip Blank Lot # (if purchased): _____				

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____ **Date:** 7/8/09

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

Samples Collected 08/03/09

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August 06, 2009

Mark Bailey
RMT Greenville
30 Patewood Drive
Suite100, Patewood Plaza One
Greenville, SC 296153535

RE: Project: 71238.40 SANGAMO
Pace Project No.: 4020627

Dear Mark Bailey:
Enclosed are the analytical results for sample(s) received by the laboratory on August 04, 2009. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Kang Khang

kang.khang@pacelabs.com
Project Manager

Enclosures

cc: Lisa Clark, RMT - GREENVILLE
Terry Hertz, RMT GREENVILLE
Mark Miesfeldt, RMT Greenville

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HT-OK; COC-SIGNED; TEMP-OK; NARR-OK
SURRS - RECS OK
TBLK-09301 - CLEAN
METHOD BLANK - CLEAN
LCS/LCSD - RECS & RPD OK
MS/MSD - RECS & RPD OK; SW-13 USED FOR MS/MSD.

August 06, 2009

Mark Bailey
RMT Greenville
30 Patewood Drive
Suite100, Patewood Plaza One
Greenville, SC 296153535

SW-13 HAD A BUBBLE IN THE VIAL. 5ML HEASPACE BECAUSE SAME VIAL USED IN SCREENING. HEADSPACE EXISTED FOR ABOUT AN HOUR, ACCORDING TO THE LAB (SEE ATTACHED EMAIL).

RE: Project: 71238.40 SANGAMO
Pace Project No.: 4020627

"UJ" FLAG ADDED TO ALL TARGET ANALYTES IN SW-13. VERY LOW LEVELS OF VOCS WOULD HAVE BEEN LOST TO HEADSPACE.

Dear Mark Bailey:
Enclosed are the analytical results for sample(s) received by the laboratory on August 04, 2009. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

GLH 8/7/09

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Kang Khang

kang.khang@pacelabs.com
Project Manager

Enclosures

cc: Lisa Clark, RMT - GREENVILLE
Terry Hertz, RMT GREENVILLE
Mark Miesfeldt, RMT Greenville

REPORT OF LABORATORY ANALYSIS

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Terry Hertz - Sangamo finding (4020627)

From: "Kang Khang"
To: "Terry Hertz"
Date: 8/7/2009 1:35 PM
Subject: Sangamo finding (4020627)

Hi Terry,

We did a simulation to try and imitate your sample process in the lab by using a check standard that had already been ran once with a different set of samples. 5mls has already been taken out during initial analysis. The vial was left out for about 1 ½ hour. We re-ran the sample and it passed.

This simulation has verified our suspension of volatile compounds dissipating within the timeline before we had your sample analyzed. The analyst has also verified that the sample was put on the instrument less than 1 hour.

I hope that this simulation can put a little bit more ease with the flag and data provided here at Pace-GB. We are always looking to research and evolve new ideas. (I personally take these questions into great consideration because I take every opportunity I can to learn more and improve my knowledge).

Sincerely,
Kang Khang

"This world has many great wonders to be discovered and understood."

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CERTIFICATIONS

Project: 71238.40 SANGAMO
Pace Project No.: 4020627

Green Bay Certification IDs

California Certification #: 09268CA
Florida/NELAP Certification #: E87948
Illinois Certification #: 200050
Kentucky Certification #: 82
Kentucky Certification #: 83
Louisiana Certification #: 04168
Louisiana Certification #: 04169
Minnesota Certification #: 055-999-334
New York Certification #: 11887
New York Certification #: 11888
North Carolina Certification #: 503
North Dakota Certification #: R-150
South Carolina Certification #: 83006001
Wisconsin Certification #: 405132750
Wisconsin DATCP Certification #: 105-444

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SAMPLE SUMMARY

Project: 71238.40 SANGAMO
Pace Project No.: 4020627

Lab ID	Sample ID	Matrix	Date Collected	Date Received
4020627001	SW-13	Water	08/03/09 14:00	08/04/09 10:00
4020627002	SW-12	Water	08/03/09 14:15	08/04/09 10:00
4020627003	SW-11	Water	08/03/09 14:30	08/04/09 10:00
4020627004	SW-3	Water	08/03/09 14:40	08/04/09 10:00
4020627005	TBLK 09301	Water	08/03/09 00:00	08/04/09 10:00

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SAMPLE ANALYTE COUNT

Project: 71238.40 SANGAMO
Pace Project No.: 4020627

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
4020627001	**SW-13**	EPA 8260	HNW	37	PASI-G
4020627002	**SW-12**	EPA 8260	HNW	37	PASI-G
4020627003	**SW-11**	EPA 8260	HNW	37	PASI-G
4020627004	**SW-3**	EPA 8260	HNW	37	PASI-G
4020627005	**TBLK 09301**	EPA 8260	HNW	37	PASI-G

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PROJECT NARRATIVE

Project: 71238.40 SANGAMO
Pace Project No.: 4020627

Method: EPA 8260
Description: 8260 MSV
Client: RMT - GREENVILLE
Date: August 06, 2009

General Information:
5 samples were analyzed for EPA 8260. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: 71238.40 SANGAMO
Pace Project No.: 4020627

Sample: SW-13 **Lab ID: 4020627001** Collected: 08/03/09 14:00 Received: 08/04/09 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	20.0	1		08/05/09 11:26	67-64-1	
Benzene	ND	ug/L	1.0	1		08/05/09 11:26	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	1		08/05/09 11:26	75-27-4	
Bromoform	ND	ug/L	1.0	1		08/05/09 11:26	75-25-2	
Bromomethane	ND	ug/L	1.0	1		08/05/09 11:26	74-83-9	
2-Butanone (MEK)	ND	ug/L	20.0	1		08/05/09 11:26	78-93-3	
Carbon disulfide	ND	ug/L	1.0	1		08/05/09 11:26	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		08/05/09 11:26	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		08/05/09 11:26	108-90-7	
Chloroethane	ND	ug/L	1.0	1		08/05/09 11:26	75-00-3	
Chloroform	ND	ug/L	5.0	1		08/05/09 11:26	67-66-3	
Chloromethane	ND	ug/L	1.0	1		08/05/09 11:26	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	1		08/05/09 11:26	124-48-1	
1,1-Dichloroethane	ND	ug/L	1.0	1		08/05/09 11:26	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		08/05/09 11:26	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		08/05/09 11:26	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		08/05/09 11:26	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		08/05/09 11:26	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		08/05/09 11:26	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		08/05/09 11:26	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		08/05/09 11:26	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	1		08/05/09 11:26	100-41-4	
2-Hexanone	ND	ug/L	5.0	1		08/05/09 11:26	591-78-6	
Methylene Chloride	ND	ug/L	1.0	1		08/05/09 11:26	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		08/05/09 11:26	108-10-1	
Styrene	ND	ug/L	1.0	1		08/05/09 11:26	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		08/05/09 11:26	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		08/05/09 11:26	127-18-4	
Toluene	ND	ug/L	1.0	1		08/05/09 11:26	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		08/05/09 11:26	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		08/05/09 11:26	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		08/05/09 11:26	79-01-6	
Vinyl chloride	ND	ug/L	1.0	1		08/05/09 11:26	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		08/05/09 11:26	1330-20-7	
4-Bromofluorobenzene (S)	96	%	70-130	1		08/05/09 11:26	460-00-4	
Dibromofluoromethane (S)	94	%	70-130	1		08/05/09 11:26	1868-53-7	HS
Toluene-d8 (S)	97	%	70-130	1		08/05/09 11:26	2037-26-5	

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ANALYTICAL RESULTS

Project: 71238.40 SANGAMO
Pace Project No.: 4020627

Sample: SW-12 **Lab ID: 4020627002** Collected: 08/03/09 14:15 Received: 08/04/09 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	20.0	1		08/05/09 11:49	67-64-1	
Benzene	ND	ug/L	1.0	1		08/05/09 11:49	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	1		08/05/09 11:49	75-27-4	
Bromoform	ND	ug/L	1.0	1		08/05/09 11:49	75-25-2	
Bromomethane	ND	ug/L	1.0	1		08/05/09 11:49	74-83-9	
2-Butanone (MEK)	ND	ug/L	20.0	1		08/05/09 11:49	78-93-3	
Carbon disulfide	ND	ug/L	1.0	1		08/05/09 11:49	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		08/05/09 11:49	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		08/05/09 11:49	108-90-7	
Chloroethane	ND	ug/L	1.0	1		08/05/09 11:49	75-00-3	
Chloroform	ND	ug/L	5.0	1		08/05/09 11:49	67-66-3	
Chloromethane	ND	ug/L	1.0	1		08/05/09 11:49	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	1		08/05/09 11:49	124-48-1	
1,1-Dichloroethane	ND	ug/L	1.0	1		08/05/09 11:49	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		08/05/09 11:49	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		08/05/09 11:49	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		08/05/09 11:49	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		08/05/09 11:49	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		08/05/09 11:49	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		08/05/09 11:49	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		08/05/09 11:49	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	1		08/05/09 11:49	100-41-4	
2-Hexanone	ND	ug/L	5.0	1		08/05/09 11:49	591-78-6	
Methylene Chloride	ND	ug/L	1.0	1		08/05/09 11:49	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		08/05/09 11:49	108-10-1	
Styrene	ND	ug/L	1.0	1		08/05/09 11:49	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		08/05/09 11:49	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		08/05/09 11:49	127-18-4	
Toluene	ND	ug/L	1.0	1		08/05/09 11:49	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		08/05/09 11:49	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		08/05/09 11:49	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		08/05/09 11:49	79-01-6	
Vinyl chloride	ND	ug/L	1.0	1		08/05/09 11:49	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		08/05/09 11:49	1330-20-7	
4-Bromofluorobenzene (S)	99	%	70-130	1		08/05/09 11:49	460-00-4	
Dibromofluoromethane (S)	92	%	70-130	1		08/05/09 11:49	1868-53-7	
Toluene-d8 (S)	98	%	70-130	1		08/05/09 11:49	2037-26-5	

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ANALYTICAL RESULTS

Project: 71238.40 SANGAMO
Pace Project No.: 4020627

Sample: SW-11 **Lab ID: 4020627003** Collected: 08/03/09 14:30 Received: 08/04/09 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	20.0	1		08/05/09 12:11	67-64-1	
Benzene	ND	ug/L	1.0	1		08/05/09 12:11	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	1		08/05/09 12:11	75-27-4	
Bromoform	ND	ug/L	1.0	1		08/05/09 12:11	75-25-2	
Bromomethane	ND	ug/L	1.0	1		08/05/09 12:11	74-83-9	
2-Butanone (MEK)	ND	ug/L	20.0	1		08/05/09 12:11	78-93-3	
Carbon disulfide	ND	ug/L	1.0	1		08/05/09 12:11	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		08/05/09 12:11	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		08/05/09 12:11	108-90-7	
Chloroethane	ND	ug/L	1.0	1		08/05/09 12:11	75-00-3	
Chloroform	ND	ug/L	5.0	1		08/05/09 12:11	67-66-3	
Chloromethane	ND	ug/L	1.0	1		08/05/09 12:11	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	1		08/05/09 12:11	124-48-1	
1,1-Dichloroethane	ND	ug/L	1.0	1		08/05/09 12:11	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		08/05/09 12:11	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		08/05/09 12:11	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		08/05/09 12:11	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		08/05/09 12:11	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		08/05/09 12:11	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		08/05/09 12:11	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		08/05/09 12:11	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	1		08/05/09 12:11	100-41-4	
2-Hexanone	ND	ug/L	5.0	1		08/05/09 12:11	591-78-6	
Methylene Chloride	ND	ug/L	1.0	1		08/05/09 12:11	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		08/05/09 12:11	108-10-1	
Styrene	ND	ug/L	1.0	1		08/05/09 12:11	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		08/05/09 12:11	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		08/05/09 12:11	127-18-4	
Toluene	ND	ug/L	1.0	1		08/05/09 12:11	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		08/05/09 12:11	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		08/05/09 12:11	79-00-5	
Trichloroethene	**2.6**	ug/L	1.0	1		08/05/09 12:11	79-01-6	
Vinyl chloride	ND	ug/L	1.0	1		08/05/09 12:11	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		08/05/09 12:11	1330-20-7	
4-Bromofluorobenzene (S)	98	%	70-130	1		08/05/09 12:11	460-00-4	
Dibromofluoromethane (S)	93	%	70-130	1		08/05/09 12:11	1868-53-7	
Toluene-d8 (S)	96	%	70-130	1		08/05/09 12:11	2037-26-5	

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ANALYTICAL RESULTS

Project: 71238.40 SANGAMO
Pace Project No.: 4020627

Sample: SW-3 **Lab ID: 4020627004** Collected: 08/03/09 14:40 Received: 08/04/09 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	20.0	1		08/05/09 12:34	67-64-1	
Benzene	ND	ug/L	1.0	1		08/05/09 12:34	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	1		08/05/09 12:34	75-27-4	
Bromoform	ND	ug/L	1.0	1		08/05/09 12:34	75-25-2	
Bromomethane	ND	ug/L	1.0	1		08/05/09 12:34	74-83-9	
2-Butanone (MEK)	ND	ug/L	20.0	1		08/05/09 12:34	78-93-3	
Carbon disulfide	ND	ug/L	1.0	1		08/05/09 12:34	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		08/05/09 12:34	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		08/05/09 12:34	108-90-7	
Chloroethane	ND	ug/L	1.0	1		08/05/09 12:34	75-00-3	
Chloroform	ND	ug/L	5.0	1		08/05/09 12:34	67-66-3	
Chloromethane	ND	ug/L	1.0	1		08/05/09 12:34	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	1		08/05/09 12:34	124-48-1	
1,1-Dichloroethane	ND	ug/L	1.0	1		08/05/09 12:34	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		08/05/09 12:34	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		08/05/09 12:34	75-35-4	
cis-1,2-Dichloroethene	**4.2**	ug/L	1.0	1		08/05/09 12:34	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		08/05/09 12:34	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		08/05/09 12:34	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		08/05/09 12:34	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		08/05/09 12:34	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	1		08/05/09 12:34	100-41-4	
2-Hexanone	ND	ug/L	5.0	1		08/05/09 12:34	591-78-6	
Methylene Chloride	ND	ug/L	1.0	1		08/05/09 12:34	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		08/05/09 12:34	108-10-1	
Styrene	ND	ug/L	1.0	1		08/05/09 12:34	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		08/05/09 12:34	79-34-5	
Tetrachloroethene	**3.5**	ug/L	1.0	1		08/05/09 12:34	127-18-4	
Toluene	ND	ug/L	1.0	1		08/05/09 12:34	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		08/05/09 12:34	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		08/05/09 12:34	79-00-5	
Trichloroethene	**23.7**	ug/L	1.0	1		08/05/09 12:34	79-01-6	
Vinyl chloride	ND	ug/L	1.0	1		08/05/09 12:34	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		08/05/09 12:34	1330-20-7	
4-Bromofluorobenzene (S)	100	%	70-130	1		08/05/09 12:34	460-00-4	
Dibromofluoromethane (S)	94	%	70-130	1		08/05/09 12:34	1868-53-7	
Toluene-d8 (S)	98	%	70-130	1		08/05/09 12:34	2037-26-5	

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ANALYTICAL RESULTS

Project: 71238.40 SANGAMO
Pace Project No.: 4020627

Sample: TBLK 09301 **Lab ID: 4020627005** Collected: 08/03/09 00:00 Received: 08/04/09 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	20.0	1		08/05/09 13:19	67-64-1	
Benzene	ND	ug/L	1.0	1		08/05/09 13:19	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	1		08/05/09 13:19	75-27-4	
Bromoform	ND	ug/L	1.0	1		08/05/09 13:19	75-25-2	
Bromomethane	ND	ug/L	1.0	1		08/05/09 13:19	74-83-9	
2-Butanone (MEK)	ND	ug/L	20.0	1		08/05/09 13:19	78-93-3	
Carbon disulfide	ND	ug/L	1.0	1		08/05/09 13:19	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		08/05/09 13:19	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		08/05/09 13:19	108-90-7	
Chloroethane	ND	ug/L	1.0	1		08/05/09 13:19	75-00-3	
Chloroform	ND	ug/L	5.0	1		08/05/09 13:19	67-66-3	
Chloromethane	ND	ug/L	1.0	1		08/05/09 13:19	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	1		08/05/09 13:19	124-48-1	
1,1-Dichloroethane	ND	ug/L	1.0	1		08/05/09 13:19	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		08/05/09 13:19	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		08/05/09 13:19	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		08/05/09 13:19	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		08/05/09 13:19	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		08/05/09 13:19	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		08/05/09 13:19	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		08/05/09 13:19	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	1		08/05/09 13:19	100-41-4	
2-Hexanone	ND	ug/L	5.0	1		08/05/09 13:19	591-78-6	
Methylene Chloride	ND	ug/L	1.0	1		08/05/09 13:19	75-09-2	Z3
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		08/05/09 13:19	108-10-1	
Styrene	ND	ug/L	1.0	1		08/05/09 13:19	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		08/05/09 13:19	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		08/05/09 13:19	127-18-4	
Toluene	ND	ug/L	1.0	1		08/05/09 13:19	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		08/05/09 13:19	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		08/05/09 13:19	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		08/05/09 13:19	79-01-6	
Vinyl chloride	ND	ug/L	1.0	1		08/05/09 13:19	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		08/05/09 13:19	1330-20-7	
4-Bromofluorobenzene (S)	94	%	70-130	1		08/05/09 13:19	460-00-4	
Dibromofluoromethane (S)	93	%	70-130	1		08/05/09 13:19	1868-53-7	
Toluene-d8 (S)	94	%	70-130	1		08/05/09 13:19	2037-26-5	

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QUALITY CONTROL DATA

Project: 71238.40 SANGAMO
Pace Project No.: 4020627

QC Batch: MSV/5179 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 4020627001, 4020627002, 4020627003, 4020627004, 4020627005

METHOD BLANK: 190090 Matrix: Water
Associated Lab Samples: 4020627001, 4020627002, 4020627003, 4020627004, 4020627005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	08/05/09 09:33	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	08/05/09 09:33	
1,1,2-Trichloroethane	ug/L	ND	1.0	08/05/09 09:33	
1,1-Dichloroethane	ug/L	ND	1.0	08/05/09 09:33	
1,1-Dichloroethene	ug/L	ND	1.0	08/05/09 09:33	
1,2-Dichloroethane	ug/L	ND	1.0	08/05/09 09:33	
1,2-Dichloropropane	ug/L	ND	1.0	08/05/09 09:33	
2-Butanone (MEK)	ug/L	ND	20.0	08/05/09 09:33	
2-Hexanone	ug/L	ND	5.0	08/05/09 09:33	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	08/05/09 09:33	
Acetone	ug/L	ND	20.0	08/05/09 09:33	
Benzene	ug/L	ND	1.0	08/05/09 09:33	
Bromodichloromethane	ug/L	ND	1.0	08/05/09 09:33	
Bromoform	ug/L	ND	1.0	08/05/09 09:33	
Bromomethane	ug/L	ND	1.0	08/05/09 09:33	
Carbon disulfide	ug/L	ND	1.0	08/05/09 09:33	
Carbon tetrachloride	ug/L	ND	1.0	08/05/09 09:33	
Chlorobenzene	ug/L	ND	1.0	08/05/09 09:33	
Chloroethane	ug/L	ND	1.0	08/05/09 09:33	
Chloroform	ug/L	ND	5.0	08/05/09 09:33	
Chloromethane	ug/L	ND	1.0	08/05/09 09:33	
cis-1,2-Dichloroethene	ug/L	ND	1.0	08/05/09 09:33	
cis-1,3-Dichloropropene	ug/L	ND	1.0	08/05/09 09:33	
Dibromochloromethane	ug/L	ND	1.0	08/05/09 09:33	
Ethylbenzene	ug/L	ND	1.0	08/05/09 09:33	
Methylene Chloride	ug/L	ND	1.0	08/05/09 09:33	
Styrene	ug/L	ND	1.0	08/05/09 09:33	
Tetrachloroethene	ug/L	ND	1.0	08/05/09 09:33	
Toluene	ug/L	ND	1.0	08/05/09 09:33	
trans-1,2-Dichloroethene	ug/L	ND	1.0	08/05/09 09:33	
trans-1,3-Dichloropropene	ug/L	ND	1.0	08/05/09 09:33	
Trichloroethene	ug/L	ND	1.0	08/05/09 09:33	
Vinyl chloride	ug/L	ND	1.0	08/05/09 09:33	
Xylene (Total)	ug/L	ND	3.0	08/05/09 09:33	
4-Bromofluorobenzene (S)	%	95	70-130	08/05/09 09:33	
Dibromofluoromethane (S)	%	93	70-130	08/05/09 09:33	
Toluene-d8 (S)	%	94	70-130	08/05/09 09:33	

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QUALITY CONTROL DATA

Project: 71238.40 SANGAMO
Pace Project No.: 4020627

LABORATORY CONTROL SAMPLE & LCSD: 190091 190092

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/L	50	54.6	53.1	109	106	70-132	3	20	
1,1,2,2-Tetrachloroethane	ug/L	50	46.3	44.3	93	89	69-130	4	20	
1,1,2-Trichloroethane	ug/L	50	50.8	51.2	102	102	70-130	.7	20	
1,1-Dichloroethane	ug/L	50	50.8	50.5	102	101	70-130	.5	20	
1,1-Dichloroethene	ug/L	50	55.9	55.8	112	112	70-130	.3	20	
1,2-Dichloroethane	ug/L	50	49.8	51.5	100	103	70-134	3	20	
1,2-Dichloropropane	ug/L	50	50.2	49.7	100	99	70-130	1	20	
2-Butanone (MEK)	ug/L	50	43.3	47.0	87	94	36-181	8	35	
2-Hexanone	ug/L	50	45.7	45.2	91	90	46-171	.9	27	
4-Methyl-2-pentanone (MIBK)	ug/L	50	44.9	43.8	90	88	50-150	3	20	
Acetone	ug/L	50	50.9	48.7	102	97	10-200	4	36	
Benzene	ug/L	50	48.5	48.9	97	98	70-131	.9	20	
Bromodichloromethane	ug/L	50	49.9	49.3	100	99	70-130	1	20	
Bromoform	ug/L	50	46.6	46.0	93	92	70-130	1	20	
Bromomethane	ug/L	50	52.9	56.9	106	114	23-200	7	20	
Carbon disulfide	ug/L	50	53.7	54.5	107	109	70-138	1	20	
Carbon tetrachloride	ug/L	50	54.3	54.6	109	109	70-144	.5	20	
Chlorobenzene	ug/L	50	51.6	51.9	103	104	70-130	.6	20	
Chloroethane	ug/L	50	54.9	57.2	110	114	70-136	4	20	
Chloroform	ug/L	50	51.1	50.5	102	101	70-130	1	20	
Chloromethane	ug/L	50	46.4	45.7	93	91	54-148	2	20	
cis-1,2-Dichloroethene	ug/L	50	50.1	50.7	100	101	70-130	1	20	
cis-1,3-Dichloropropene	ug/L	50	49.6	48.9	99	98	70-130	1	20	
Dibromochloromethane	ug/L	50	49.5	49.9	99	100	70-130	.8	20	
Ethylbenzene	ug/L	50	51.6	52.6	103	105	70-130	2	20	
Methylene Chloride	ug/L	50	51.1	51.4	102	103	66-130	.6	20	
Styrene	ug/L	50	46.8	47.6	94	95	70-130	2	20	
Tetrachloroethene	ug/L	50	53.7	53.8	107	108	75-130	.2	20	
Toluene	ug/L	50	51.2	51.2	102	102	70-130	.05	20	
trans-1,2-Dichloroethene	ug/L	50	51.5	51.9	103	104	70-130	.6	20	
trans-1,3-Dichloropropene	ug/L	50	48.2	49.7	96	99	70-130	3	20	
Trichloroethene	ug/L	50	54.6	53.0	109	106	70-130	3	20	
Vinyl chloride	ug/L	50	51.5	52.0	103	104	63-141	1	20	
Xylene (Total)	ug/L	150	154	157	103	105	70-130	2	20	
4-Bromofluorobenzene (S)	%				97	98	70-130			
Dibromofluoromethane (S)	%				91	91	70-130			
Toluene-d8 (S)	%				96	98	70-130			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 190142 190143

Parameter	Units	4020627001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1-Trichloroethane	ug/L	ND	50	50	54.9	54.5	110	109	70-137	.8	20	
1,1,2,2-Tetrachloroethane	ug/L	ND	50	50	46.1	45.8	92	92	67-130	.8	20	
1,1,2-Trichloroethane	ug/L	ND	50	50	50.9	49.7	102	99	70-130	2	20	
1,1-Dichloroethane	ug/L	ND	50	50	51.5	50.3	103	101	70-130	2	20	
1,1-Dichloroethene	ug/L	ND	50	50	57.0	56.2	114	112	70-130	1	20	

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Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 71238.40 SANGAMO
Pace Project No.: 4020627

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 190142 190143

Parameter	Units	4020627001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dichloroethane	ug/L	ND	50	50	52.2	51.1	104	102	69-134	2	20	
1,2-Dichloropropane	ug/L	ND	50	50	51.1	49.6	102	99	70-130	3	20	
2-Butanone (MEK)	ug/L	ND	50	50	46.7	49.1	93	98	36-181	5	35	
2-Hexanone	ug/L	ND	50	50	43.1	46.0	86	92	46-171	6	27	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	50	50	45.7	46.1	91	92	50-150	.8	20	
Acetone	ug/L	ND	50	50	50.5	45.8	101	92	10-200	10	36	
Benzene	ug/L	ND	50	50	49.9	48.7	100	97	69-131	2	20	
Bromodichloromethane	ug/L	ND	50	50	49.8	49.8	100	100	70-130	.01	20	
Bromoform	ug/L	ND	50	50	45.9	46.1	92	92	68-130	.5	20	
Bromomethane	ug/L	ND	50	50	56.5	55.0	113	110	22-200	3	20	
Carbon disulfide	ug/L	ND	50	50	55.9	54.6	112	109	68-138	2	20	
Carbon tetrachloride	ug/L	ND	50	50	55.5	53.1	111	106	70-144	4	20	
Chlorobenzene	ug/L	ND	50	50	51.9	51.4	104	103	70-130	1	20	
Chloroethane	ug/L	ND	50	50	54.2	54.2	108	108	66-136	.09	20	
Chloroform	ug/L	ND	50	50	52.3	50.8	105	102	70-130	3	20	
Chloromethane	ug/L	ND	50	50	47.7	48.1	95	96	54-148	.7	20	
cis-1,2-Dichloroethene	ug/L	ND	50	50	50.9	49.0	102	98	70-130	4	20	
cis-1,3-Dichloropropene	ug/L	ND	50	50	50.6	48.7	101	97	70-130	4	20	
Dibromochloromethane	ug/L	ND	50	50	50.4	50.1	101	100	70-130	.6	20	
Ethylbenzene	ug/L	ND	50	50	52.6	51.4	105	103	70-130	2	20	
Methylene Chloride	ug/L	ND	50	50	50.9	50.4	102	101	64-130	1	20	
Styrene	ug/L	ND	50	50	47.7	45.6	95	91	43-130	4	20	
Tetrachloroethene	ug/L	ND	50	50	54.7	53.2	109	106	70-130	3	20	
Toluene	ug/L	ND	50	50	51.5	51.5	103	103	70-130	.02	20	
trans-1,2-Dichloroethene	ug/L	ND	50	50	52.6	52.3	105	105	70-130	.5	20	
trans-1,3-Dichloropropene	ug/L	ND	50	50	51.0	49.0	102	98	70-130	4	20	
Trichloroethene	ug/L	ND	50	50	54.3	53.4	109	107	70-130	2	20	
Vinyl chloride	ug/L	ND	50	50	53.4	53.9	107	108	59-141	.9	20	
Xylene (Total)	ug/L	ND	150	150	154	153	103	102	70-130	.8	20	
4-Bromofluorobenzene (S)	%						97	98	70-130			
Dibromofluoromethane (S)	%						92	93	70-130			
Toluene-d8 (S)	%						97	97	70-130			

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1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALIFIERS

Project: 71238.40 SANGAMO
Pace Project No.: 4020627

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

Pace Analytical is NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

U - Indicates the compound was analyzed for, but not detected.

LABORATORIES

PASI-G	Pace Analytical Services - Green Bay

ANALYTE QUALIFIERS

HS	Results are from sample aliquot taken from VOA vial with headspace (air bubble greater than 6 mm diameter).
Z3	Methylene chloride is a common laboratory contaminant. Results for this analyte should be considered estimated unless the amount found in the sample is 3 to 5 times higher than that found in the method blank.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 71238.40 SANGAMO
Pace Project No.: 4020627

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
4020627001	**SW-13**	EPA 8260	MSV/5179		
4020627002	**SW-12**	EPA 8260	MSV/5179		
4020627003	**SW-11**	EPA 8260	MSV/5179		
4020627004	**SW-3**	EPA 8260	MSV/5179		
4020627005	**TBLK 09301**	EPA 8260	MSV/5179		

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RMT

CHAIN OF CUSTODY RECORD

VMRW 4020627 77198

30 Patewood Drive, Suite 100, Patewood Plaza One, Greenville, SC 29615-3535
Phone 864/281-0030 • Fax 864/281-0288

Project No. 00001 (1) 71238.40 (was 71528.40)

Project/Client: SAWGRASS

Project Manager/Contact Person: M Parker / M. Miesfeldt

Lab No.	Yr. 09 Date	Time	Sample Station ID	Total Number of Containers	MATRIX	Analyses Requested: VOCs	Filtered (Yes/No): N	Preserved (Code): E	Comments:
001	8-3	1400	SW-13	3	SW	3	3-40mL B		Quick Turn
002	"	1415	SW-12	3	SW	3	"		
003	"	1430	SW-11	3	SW	3	"		TCL VOLATILES VIA
004	8-3	1440	SW-3	3	SW	3	2-40mL B		SW-846 Method 8260
005			TRIP BLK 09301	2	DI	2	"		

PRESERVED CODES
A — NONE
B — HNO_3
C — H_2SO_4
D — NaOH
E — HCl
F — METHANOL
G — _____

SPECIAL INSTRUCTIONS Rev Mark Miesfeldt - Proj # 71238.40, VOC list is 40 mL 3 ea. MM 8/4/09
8488-3084-7620

SAMPLER Relinquished by (Signature)	Date/Time	Received by (Signature)	Date/Time
Larry Lehn	8/3/09 1600	FED EX	8/3/09 1600
Relinquished by (Signature)	Date/Time	Received by (Signature)	Date/Time
Fed Ex	8/4/09 10:00AM	Heather Dunbar	8/4/09 10:00AM
Relinquished by (Signature)	Date/Time	Received by (Signature)	Date/Time

HAZARDS ASSOCIATED WITH SAMPLES
- ☐ Flammable
- ☐ Corrosive
- ☐ Highly Toxic
- ☐ Other (list) _____

Turn Around (circle one) Normal Rush
Report Due _____

(For Lab Use Only)
Receipt Temp:
Temp Blank (Y) N
1°C
Receipt pH (Wet/Metals)
N/A

Custody Seal: Present/(Absent) Intact/Not Intact Seal #s N/A

F-268 (10/08)

WHITE—LABORATORY COPY YELLOW—REPORT APPENDIX PINK—SAMPLER/SUBMITTER

Sample Condition Upon Receipt

Pace Analytical

Client Name: RMT Project # 4020627

Courier: ☒ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace Other _____

Tracking #: _____

Optional: Proj Due Date: Proj Name:

Custody Seal on Cooler/Box Present: ☐ yes ☒ no Seals intact: ☐ yes ☒ no

Packing Material: ☐ Bubble Wrap ☒ Bubble Bags ☐ None ☐ Other _____

Thermometer Used IR1 **Type of Ice:** (Wet) Blue None ☐ Samples on ice, cooling process has begun

Cooler Temperature 1°C **Biological Tissue is Frozen:** Yes No

Temp should be above freezing to 6°C

Comments:

Date and Initials of person examining contents: 8/4/09 HMH

Chain of Custody Present:	☒Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☒Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☒Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☐Yes ☒No ☐N/A	4.
Samples Arrived within Hold Time:	☒Yes ☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☐Yes ☒No ☐N/A	6.
Rush Turn Around Time Requested:	☒Yes ☐No ☐N/A	7. Listed as Quick Turn - No date
Sufficient Volume:	☒Yes ☐No ☐N/A	8.
Correct Containers Used:	☒Yes ☐No ☐N/A	9.
-Pace Containers Used:	☒Yes ☐No ☐N/A	
Containers Intact:	☐Yes ☒No ☐N/A	10. 1 vial for sample 004 broken in shipment dk
Filtered volume received for Dissolved tests	☐Yes ☒No ☐N/A	11.
Sample Labels match COC:	☒Yes ☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix: W		
All containers needing preservation have been checked.	☐Yes ☐No ☒N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☐Yes ☐No ☒N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☐Yes ☐No	Initial when completed / Lot # of added preservative
Samples checked for dechlorination:	☐Yes ☐No ☒N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes ☒No ☐N/A	15.
Trip Blank Present:	☒Yes ☐No ☐N/A	16. non-Pace T.B.
Trip Blank Custody Seals Present	☐Yes ☒No ☐N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____ **Date:** 8/4/09

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

Samples Collected 11/04/09

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1241 Bellevue Street - Suite 9
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November 06, 2009

Mark Bailey
RMT Greenville
30 Patewood Drive
Suite100, Patewood Plaza One
Greenville, SC 296153535

RE: Project: 71238.50 SCHLUMBERGER
Pace Project No.: 4024990

Dear Mark Bailey:
Enclosed are the analytical results for sample(s) received by the laboratory on November 05, 2009. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Kang Khang

kang.khang@pacelabs.com
Project Manager

Enclosures

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CoC -SIGNED; TEMP-OK; HT-OK; NARR-OK

TBLK-01 - CLEAN
MBLK - CLEAN
SURR-RECS OK
LCS/LCSD -RECS & RPDS OK
MS/MSD - VOC - BATCH QC, RPDS & RECS OK

NO FLAGS
TLH 11/6/09

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November 06, 2009

Mark Bailey
RMT Greenville
30 Patewood Drive
Suite100, Patewood Plaza One
Greenville, SC 296153535

RE: Project: 71238.50 SCHLUMBERGER
Pace Project No.: 4024990

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If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Kang Khang

Kang Khang

kang.khang@pacelabs.com
Project Manager

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nelac

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CERTIFICATIONS

Project: 71238.50 SCHLUMBERGER
Pace Project No.: 4024990

Green Bay Certification IDs

California Certification #: 09268CA
Florida/NELAP Certification #: E87948
Illinois Certification #: 200050
Kentucky Certification #: 82
Louisiana Certification #: 04168
Minnesota Certification #: 055-999-334
New York Certification #: 11887
New York Certification #: 11888
North Carolina Certification #: 503
North Dakota Certification #: R-150
South Carolina Certification #: 83006001
Wisconsin Certification #: 405132750
Wisconsin DATCP Certification #: 105-444
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SAMPLE SUMMARY

Project: 71238.50 SCHLUMBERGER
Pace Project No.: 4024990

Lab ID	Sample ID	Matrix	Date Collected	Date Received
4024990001	**TBLK-01**	Water	11/04/09 00:00	11/05/09 10:10
4024990002	**GWS-07**	Water	11/04/09 09:00	11/05/09 10:10
4024990003	**AREA 2 SEEP**	Water	11/04/09 09:25	11/05/09 10:10

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SAMPLE ANALYTE COUNT

Project: 71238.50 SCHLUMBERGER
Pace Project No.: 4024990

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
4024990001	TBLK-01	EPA 8260	SMT	36	PASI-G
4024990002	GWS-07	EPA 8260	SMT	36	PASI-G
4024990003	AREA 2 SEEP	EPA 8260	SMT	36	PASI-G

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PROJECT NARRATIVE

Project: 71238.50 SCHLUMBERGER
Pace Project No.: 4024990

Method: EPA 8260
Description: 8260 MSV
Client: RMT - GREENVILLE
Date: November 06, 2009

General Information:
3 samples were analyzed for EPA 8260. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: 71238.50 SCHLUMBERGER
Pace Project No.: 4024990

Sample: TBLK-01 **Lab ID: 4024990001** Collected: 11/04/09 00:00 Received: 11/05/09 10:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
1,1,1-Trichloroethane	ND	ug/L	1.0	1		11/06/09 10:12	71-55-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		11/06/09 10:12	79-34-5	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		11/06/09 10:12	79-00-5	
1,1-Dichloroethane	ND	ug/L	1.0	1		11/06/09 10:12	75-34-3	
1,1-Dichloroethene	ND	ug/L	1.0	1		11/06/09 10:12	75-35-4	
1,2-Dichloroethane	ND	ug/L	1.0	1		11/06/09 10:12	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	2.0	1		11/06/09 10:12	540-59-0	
1,2-Dichloropropane	ND	ug/L	1.0	1		11/06/09 10:12	78-87-5	
2-Butanone (MEK)	ND	ug/L	20.0	1		11/06/09 10:12	78-93-3	
2-Hexanone	ND	ug/L	5.0	1		11/06/09 10:12	591-78-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		11/06/09 10:12	108-10-1	
Acetone	ND	ug/L	20.0	1		11/06/09 10:12	67-64-1	
Benzene	ND	ug/L	1.0	1		11/06/09 10:12	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	1		11/06/09 10:12	75-27-4	
Bromoform	ND	ug/L	1.0	1		11/06/09 10:12	75-25-2	
Bromomethane	ND	ug/L	1.0	1		11/06/09 10:12	74-83-9	
Carbon disulfide	ND	ug/L	1.0	1		11/06/09 10:12	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		11/06/09 10:12	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		11/06/09 10:12	108-90-7	
Chloroethane	ND	ug/L	1.0	1		11/06/09 10:12	75-00-3	
Chloroform	ND	ug/L	5.0	1		11/06/09 10:12	67-66-3	
Chloromethane	ND	ug/L	1.0	1		11/06/09 10:12	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	1		11/06/09 10:12	124-48-1	
Ethylbenzene	ND	ug/L	1.0	1		11/06/09 10:12	100-41-4	
Methylene Chloride	ND	ug/L	1.0	1		11/06/09 10:12	75-09-2	
Styrene	ND	ug/L	1.0	1		11/06/09 10:12	100-42-5	
Tetrachloroethene	ND	ug/L	1.0	1		11/06/09 10:12	127-18-4	
Toluene	ND	ug/L	1.0	1		11/06/09 10:12	108-88-3	
Trichloroethene	ND	ug/L	1.0	1		11/06/09 10:12	79-01-6	
Vinyl chloride	ND	ug/L	1.0	1		11/06/09 10:12	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		11/06/09 10:12	1330-20-7	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		11/06/09 10:12	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		11/06/09 10:12	10061-02-6	
4-Bromofluorobenzene (S)	93	%	70-130	1		11/06/09 10:12	460-00-4	
Dibromofluoromethane (S)	92	%	70-130	1		11/06/09 10:12	1868-53-7	
Toluene-d8 (S)	96	%	70-130	1		11/06/09 10:12	2037-26-5	

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ANALYTICAL RESULTS

Project: 71238.50 SCHLUMBERGER
Pace Project No.: 4024990

Sample: GWS-07 **Lab ID: 4024990002** Collected: 11/04/09 09:00 Received: 11/05/09 10:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
1,1,1-Trichloroethane	ND	ug/L	1.0	1		11/06/09 10:36	71-55-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		11/06/09 10:36	79-34-5	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		11/06/09 10:36	79-00-5	
1,1-Dichloroethane	ND	ug/L	1.0	1		11/06/09 10:36	75-34-3	
1,1-Dichloroethene	ND	ug/L	1.0	1		11/06/09 10:36	75-35-4	
1,2-Dichloroethane	ND	ug/L	1.0	1		11/06/09 10:36	107-06-2	
1,2-Dichloroethene (Total)	**15.9**	ug/L	2.0	1		11/06/09 10:36	540-59-0	
1,2-Dichloropropane	ND	ug/L	1.0	1		11/06/09 10:36	78-87-5	
2-Butanone (MEK)	ND	ug/L	20.0	1		11/06/09 10:36	78-93-3	
2-Hexanone	ND	ug/L	5.0	1		11/06/09 10:36	591-78-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		11/06/09 10:36	108-10-1	
Acetone	ND	ug/L	20.0	1		11/06/09 10:36	67-64-1	
Benzene	ND	ug/L	1.0	1		11/06/09 10:36	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	1		11/06/09 10:36	75-27-4	
Bromoform	ND	ug/L	1.0	1		11/06/09 10:36	75-25-2	
Bromomethane	ND	ug/L	1.0	1		11/06/09 10:36	74-83-9	
Carbon disulfide	ND	ug/L	1.0	1		11/06/09 10:36	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		11/06/09 10:36	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		11/06/09 10:36	108-90-7	
Chloroethane	ND	ug/L	1.0	1		11/06/09 10:36	75-00-3	
Chloroform	ND	ug/L	5.0	1		11/06/09 10:36	67-66-3	
Chloromethane	ND	ug/L	1.0	1		11/06/09 10:36	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	1		11/06/09 10:36	124-48-1	
Ethylbenzene	ND	ug/L	1.0	1		11/06/09 10:36	100-41-4	
Methylene Chloride	ND	ug/L	1.0	1		11/06/09 10:36	75-09-2	
Styrene	ND	ug/L	1.0	1		11/06/09 10:36	100-42-5	
Tetrachloroethene	**8.8**	ug/L	1.0	1		11/06/09 10:36	127-18-4	
Toluene	ND	ug/L	1.0	1		11/06/09 10:36	108-88-3	
Trichloroethene	**19.8**	ug/L	1.0	1		11/06/09 10:36	79-01-6	
Vinyl chloride	ND	ug/L	1.0	1		11/06/09 10:36	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		11/06/09 10:36	1330-20-7	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		11/06/09 10:36	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		11/06/09 10:36	10061-02-6	
4-Bromofluorobenzene (S)	94	%	70-130	1		11/06/09 10:36	460-00-4	
Dibromofluoromethane (S)	92	%	70-130	1		11/06/09 10:36	1868-53-7	
Toluene-d8 (S)	98	%	70-130	1		11/06/09 10:36	2037-26-5	

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ANALYTICAL RESULTS

Project: 71238.50 SCHLUMBERGER
Pace Project No.: 4024990

Sample: AREA 2 SEEP **Lab ID: 4024990003** Collected: 11/04/09 09:25 Received: 11/05/09 10:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
1,1,1-Trichloroethane	ND	ug/L	10.0	10		11/06/09 11:00	71-55-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	10.0	10		11/06/09 11:00	79-34-5	
1,1,2-Trichloroethane	ND	ug/L	10.0	10		11/06/09 11:00	79-00-5	
1,1-Dichloroethane	ND	ug/L	10.0	10		11/06/09 11:00	75-34-3	
1,1-Dichloroethene	ND	ug/L	10.0	10		11/06/09 11:00	75-35-4	
1,2-Dichloroethane	ND	ug/L	10.0	10		11/06/09 11:00	107-06-2	
1,2-Dichloroethene (Total)	**1140**	ug/L	20.0	10		11/06/09 11:00	540-59-0	
1,2-Dichloropropane	ND	ug/L	10.0	10		11/06/09 11:00	78-87-5	
2-Butanone (MEK)	ND	ug/L	200	10		11/06/09 11:00	78-93-3	
2-Hexanone	ND	ug/L	50.0	10		11/06/09 11:00	591-78-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	50.0	10		11/06/09 11:00	108-10-1	
Acetone	ND	ug/L	200	10		11/06/09 11:00	67-64-1	
Benzene	ND	ug/L	10.0	10		11/06/09 11:00	71-43-2	
Bromodichloromethane	ND	ug/L	10.0	10		11/06/09 11:00	75-27-4	
Bromoform	ND	ug/L	10.0	10		11/06/09 11:00	75-25-2	
Bromomethane	ND	ug/L	10.0	10		11/06/09 11:00	74-83-9	
Carbon disulfide	ND	ug/L	10.0	10		11/06/09 11:00	75-15-0	
Carbon tetrachloride	ND	ug/L	10.0	10		11/06/09 11:00	56-23-5	
Chlorobenzene	ND	ug/L	10.0	10		11/06/09 11:00	108-90-7	
Chloroethane	ND	ug/L	10.0	10		11/06/09 11:00	75-00-3	
Chloroform	ND	ug/L	50.0	10		11/06/09 11:00	67-66-3	
Chloromethane	ND	ug/L	10.0	10		11/06/09 11:00	74-87-3	
Dibromochloromethane	ND	ug/L	10.0	10		11/06/09 11:00	124-48-1	
Ethylbenzene	ND	ug/L	10.0	10		11/06/09 11:00	100-41-4	
Methylene Chloride	ND	ug/L	10.0	10		11/06/09 11:00	75-09-2	
Styrene	ND	ug/L	10.0	10		11/06/09 11:00	100-42-5	
Tetrachloroethene	**41.4**	ug/L	10.0	10		11/06/09 11:00	127-18-4	
Toluene	ND	ug/L	10.0	10		11/06/09 11:00	108-88-3	
Trichloroethene	**147**	ug/L	10.0	10		11/06/09 11:00	79-01-6	
Vinyl chloride	**13.7**	ug/L	10.0	10		11/06/09 11:00	75-01-4	
Xylene (Total)	ND	ug/L	30.0	10		11/06/09 11:00	1330-20-7	
cis-1,3-Dichloropropene	ND	ug/L	10.0	10		11/06/09 11:00	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	10.0	10		11/06/09 11:00	10061-02-6	
4-Bromofluorobenzene (S)	92	%	70-130	10		11/06/09 11:00	460-00-4	
Dibromofluoromethane (S)	93	%	70-130	10		11/06/09 11:00	1868-53-7	
Toluene-d8 (S)	98	%	70-130	10		11/06/09 11:00	2037-26-5	

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QUALITY CONTROL DATA

Project: 71238.50 SCHLUMBERGER
Pace Project No.: 4024990

QC Batch: MSV/6027 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 4024990001, 4024990002, 4024990003

METHOD BLANK: 231563 Matrix: Water
Associated Lab Samples: 4024990001, 4024990002, 4024990003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	11/06/09 07:49	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	11/06/09 07:49	
1,1,2-Trichloroethane	ug/L	ND	1.0	11/06/09 07:49	
1,1-Dichloroethane	ug/L	ND	1.0	11/06/09 07:49	
1,1-Dichloroethene	ug/L	ND	1.0	11/06/09 07:49	
1,2-Dichloroethane	ug/L	ND	1.0	11/06/09 07:49	
1,2-Dichloroethene (Total)	ug/L	ND	2.0	11/06/09 07:49	
1,2-Dichloropropane	ug/L	ND	1.0	11/06/09 07:49	
2-Butanone (MEK)	ug/L	ND	20.0	11/06/09 07:49	
2-Hexanone	ug/L	ND	5.0	11/06/09 07:49	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	11/06/09 07:49	
Acetone	ug/L	ND	20.0	11/06/09 07:49	
Benzene	ug/L	ND	1.0	11/06/09 07:49	
Bromodichloromethane	ug/L	ND	1.0	11/06/09 07:49	
Bromoform	ug/L	ND	1.0	11/06/09 07:49	
Bromomethane	ug/L	ND	1.0	11/06/09 07:49	
Carbon disulfide	ug/L	ND	1.0	11/06/09 07:49	
Carbon tetrachloride	ug/L	ND	1.0	11/06/09 07:49	
Chlorobenzene	ug/L	ND	1.0	11/06/09 07:49	
Chloroethane	ug/L	ND	1.0	11/06/09 07:49	
Chloroform	ug/L	ND	5.0	11/06/09 07:49	
Chloromethane	ug/L	ND	1.0	11/06/09 07:49	
cis-1,3-Dichloropropene	ug/L	ND	1.0	11/06/09 07:49	
Dibromochloromethane	ug/L	ND	1.0	11/06/09 07:49	
Ethylbenzene	ug/L	ND	1.0	11/06/09 07:49	
Methylene Chloride	ug/L	ND	1.0	11/06/09 07:49	
Styrene	ug/L	ND	1.0	11/06/09 07:49	
Tetrachloroethene	ug/L	ND	1.0	11/06/09 07:49	
Toluene	ug/L	ND	1.0	11/06/09 07:49	
trans-1,3-Dichloropropene	ug/L	ND	1.0	11/06/09 07:49	
Trichloroethene	ug/L	ND	1.0	11/06/09 07:49	
Vinyl chloride	ug/L	ND	1.0	11/06/09 07:49	
Xylene (Total)	ug/L	ND	3.0	11/06/09 07:49	
4-Bromofluorobenzene (S)	%	92	70-130	11/06/09 07:49	
Dibromofluoromethane (S)	%	93	70-130	11/06/09 07:49	
Toluene-d8 (S)	%	93	70-130	11/06/09 07:49	

LABORATORY CONTROL SAMPLE & LCSD: 231564 231565

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/L	50	51.2	51.3	102	103	70-132	.1	20	

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QUALITY CONTROL DATA

Project: 71238.50 SCHLUMBERGER
Pace Project No.: 4024990

LABORATORY CONTROL SAMPLE & LCSD: 231564 231565

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,1,2,2-Tetrachloroethane	ug/L	50	39.5	39.2	79	78	69-130	.6	20	
1,1,2-Trichloroethane	ug/L	50	45.6	45.4	91	91	70-130	.4	20	
1,1-Dichloroethane	ug/L	50	49.3	49.4	99	99	70-130	.2	20	
1,1-Dichloroethene	ug/L	50	57.7	56.2	115	112	70-130	3	20	
1,2-Dichloroethane	ug/L	50	50.3	50.6	101	101	70-134	.5	20	
1,2-Dichloroethene (Total)	ug/L	100	105	102	105	102	70-130	3	20	
1,2-Dichloropropane	ug/L	50	48.8	48.6	98	97	70-130	.6	20	
2-Butanone (MEK)	ug/L	50	67.2	60.0	134	120	36-181	11	35	
2-Hexanone	ug/L	50	60.0	49.2	120	98	46-171	20	27	
4-Methyl-2-pentanone (MIBK)	ug/L	50	41.3	41.1	83	82	50-150	.3	20	
Acetone	ug/L	50	87.3	74.6	175	149	10-200	16	36	
Benzene	ug/L	50	52.2	51.8	104	104	70-131	.8	20	
Bromodichloromethane	ug/L	50	48.7	49.3	97	99	70-130	1	20	
Bromoform	ug/L	50	44.9	44.4	90	89	70-130	1	20	
Bromomethane	ug/L	50	54.0	59.5	108	119	23-200	10	20	
Carbon disulfide	ug/L	50	52.6	52.9	105	106	70-138	.4	20	
Carbon tetrachloride	ug/L	50	55.0	54.5	110	109	70-144	.8	20	
Chlorobenzene	ug/L	50	49.3	50.2	99	100	70-130	2	20	
Chloroethane	ug/L	50	55.0	53.9	110	108	70-136	2	20	
Chloroform	ug/L	50	51.5	52.2	103	104	70-130	1	20	
Chloromethane	ug/L	50	48.6	49.6	97	99	54-148	2	20	
cis-1,3-Dichloropropene	ug/L	50	47.8	47.3	96	95	70-130	1	20	
Dibromochloromethane	ug/L	50	44.2	45.2	88	90	70-130	2	20	
Ethylbenzene	ug/L	50	50.9	51.2	102	102	70-130	.5	20	
Methylene Chloride	ug/L	50	55.8	52.6	112	105	66-130	6	20	
Styrene	ug/L	50	44.8	45.0	90	90	70-130	.6	20	
Tetrachloroethene	ug/L	50	52.2	52.5	104	105	75-130	.6	20	
Toluene	ug/L	50	50.7	50.3	101	101	70-130	.8	20	
trans-1,3-Dichloropropene	ug/L	50	43.0	43.8	86	88	70-130	2	20	
Trichloroethene	ug/L	50	52.0	52.4	104	105	70-130	.7	20	
Vinyl chloride	ug/L	50	54.9	54.2	110	108	63-141	1	20	
Xylene (Total)	ug/L	150	155	156	104	104	70-130	.6	20	
4-Bromofluorobenzene (S)	%				93	95	70-130			
Dibromofluoromethane (S)	%				96	96	70-130			
Toluene-d8 (S)	%				94	95	70-130			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 231566 231567

Parameter	Units	4024884001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1-Trichloroethane	ug/L	<0.90	50	50	48.7	50.2	97	100	70-137	3	20	
1,1,2,2-Tetrachloroethane	ug/L	<0.20	50	50	38.2	39.2	76	78	67-130	2	20	
1,1,2-Trichloroethane	ug/L	<0.42	50	50	44.2	45.9	88	92	70-130	4	20	
1,1-Dichloroethane	ug/L	<0.75	50	50	46.9	49.8	94	100	70-130	6	20	
1,1-Dichloroethene	ug/L	<0.57	50	50	56.7	57.6	113	115	70-130	2	20	
1,2-Dichloroethane	ug/L	<0.36	50	50	47.0	48.9	94	98	69-134	4	20	
1,2-Dichloroethene (Total)	ug/L	<1.4	100	100	100	102	100	102	70-130	2	20	

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QUALITY CONTROL DATA

Project: 71238.50 SCHLUMBERGER
Pace Project No.: 4024990

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 231566 231567

Parameter	Units	4024884001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dichloropropane	ug/L	<0.49	50	50	47.1	47.4	94	95	70-130	.5	20	
2-Butanone (MEK)	ug/L	<4.3	50	50	42.1	42.9	84	86	36-181	2	35	
2-Hexanone	ug/L	<2.0	50	50	36.1	37.3	72	75	46-171	3	27	
4-Methyl-2-pentanone (MIBK)	ug/L	<1.2	50	50	38.8	38.8	78	78	50-150	.003	20	
Acetone	ug/L	<5.0	50	50	40.2	39.7	80	79	10-200	1	36	
Benzene	ug/L	<0.41	50	50	49.5	51.0	99	102	69-131	3	20	
Bromodichloromethane	ug/L	<0.56	50	50	47.4	47.9	95	96	70-130	1	20	
Bromoform	ug/L	<0.94	50	50	43.1	43.7	86	87	68-130	2	20	
Bromomethane	ug/L	<0.91	50	50	57.4	62.6	115	125	22-200	9	20	
Carbon disulfide	ug/L	<0.66	50	50	52.1	54.5	104	109	68-138	5	20	
Carbon tetrachloride	ug/L	<0.49	50	50	53.2	54.7	106	109	70-144	3	20	
Chlorobenzene	ug/L	<0.41	50	50	49.4	49.6	99	99	70-130	.5	20	
Chloroethane	ug/L	<0.97	50	50	52.7	54.1	105	108	66-136	3	20	
Chloroform	ug/L	<1.3	50	50	49.9	51.4	100	103	70-130	3	20	
Chloromethane	ug/L	<0.24	50	50	46.4	46.5	93	93	54-148	.2	20	
cis-1,3-Dichloropropene	ug/L	<0.20	50	50	46.0	46.2	92	92	70-130	.4	20	
Dibromochloromethane	ug/L	<0.81	50	50	43.9	44.6	88	89	70-130	2	20	
Ethylbenzene	ug/L	<0.54	50	50	50.2	50.6	100	101	70-130	.8	20	
Methylene Chloride	ug/L	<0.43	50	50	55.3	55.2	111	110	64-130	.2	20	
Styrene	ug/L	<0.86	50	50	43.9	44.7	88	89	43-130	2	20	
Tetrachloroethene	ug/L	<0.45	50	50	50.1	52.1	100	104	70-130	4	20	
Toluene	ug/L	<0.67	50	50	49.0	50.2	98	100	70-130	2	20	
trans-1,3-Dichloropropene	ug/L	<0.19	50	50	42.0	43.0	84	86	70-130	2	20	
Trichloroethene	ug/L	<0.48	50	50	50.7	51.6	101	103	70-130	2	20	
Vinyl chloride	ug/L	<0.18	50	50	53.2	53.4	106	107	59-141	.4	20	
Xylene (Total)	ug/L	<2.6	150	150	151	154	101	103	70-130	1	20	
4-Bromofluorobenzene (S)	%						94	94	70-130			
Dibromofluoromethane (S)	%						94	97	70-130			
Toluene-d8 (S)	%						94	95	70-130			

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QUALIFIERS

Project: 71238.50 SCHLUMBERGER
Pace Project No.: 4024990

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

Pace Analytical is NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

U - Indicates the compound was analyzed for, but not detected.

LABORATORIES

PASI-G Pace Analytical Services - Green Bay

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 71238.50 SCHLUMBERGER
Pace Project No.: 4024990

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
4024990001	**TBLK-01**	EPA 8260	MSV/6027		
4024990002	**GWS-07**	EPA 8260	MSV/6027		
4024990003	**AREA 2 SEEP**	EPA 8260	MSV/6027		

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RMT

CHAIN OF CUSTODY RECORD

REV

77292
4024990

30 Patewood Drive, Suite 100, Patewood Plaza One, Greenville, SC 29615-3535
Phone 864/281-0030 • Fax 864/281-0288

Project No.: 71238.50

Project/Client: Schlumberger

Project Manager/Contact Person: Mike Parker/ Travis Tarbet

Lab No.	Yr. 09 Date	Time	Sample Station ID	Total Number of Containers	MATRIX	Analyses Requested: VOCs	Filtered (Yes/No): N	Preserved (Code): E	Comments:
001			TBLK-01	2	DI	2			E-mail results
002	11/4	0900	GWS-07	3	SW	3			to :
003	11/4	0925	Area 2 Seep	3	SW	3			Travis.Tarbet@rmtinc.com
									Mike.Parker@rmtinc.com

40ml

PRESERVED CODES
A — NONE
B — HNO_3
C — H_2SO_4
D — NaOH
E — HCl
F — METHANOL
G — _____

SPECIAL INSTRUCTIONS

SAMPLER Relinquished by (Signature) IT Date/Time: 11/4/09 1600

Received by (Signature): FedEx 8082 8759 2283 Date/Time:

Relinquished by (Signature): Pedro Date/Time: 11/5/09 10:10

Received by (Signature): A. Bulnolica Date/Time: 11/5/09 10:10

Relinquished by (Signature) Date/Time:

Received by (Signature) Date/Time:

HAZARDS ASSOCIATED WITH SAMPLES
- ☐ Flammable
- ☐ Corrosive
- ☐ Highly Toxic
- ☐ Other (list) _____

Turn Around (circle one): Normal (Rush)

Report Due _____

(For Lab Use Only)

Receipt Temp: Temp Blank Y N

Receipt pH (Wet/Metals)

Custody Seal: Present/Absent Intact/Not Intact Seal #s

F-268 (10/08)

WHITE—LABORATORY COPY YELLOW—REPORT APPENDIX PINK—SAMPLER/SUBMITTER

Pace Analytical Services, Inc.
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Green Bay, WI 54302

Pace Analytical

Sample Condition Upon Receipt

Client Name: RMT Project # 4024990

Courier: ☑ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace Other _____

Tracking #: _____

Custody Seal on Cooler/Box Present: ☑ yes ☐ no Seals intact: ☑ yes ☐ no

Custody Seal on Samples Present: ☐ yes ☑ no Seals intact: ☐ yes ☐ no

Packing Material: ☐ Bubble Wrap ☑ Bubble Bags ☐ None Other

Optional
Proj. Due Date:
Proj. Name:

Thermometer Used VB **Type of Ice:** (Wet) Blue Dry None ☐ Samples on ice, cooling process has begun

Cooler Temperature 2°C **Biological Tissue is Frozen:** ☐ yes ☐ no

Temp Blank Present: ☐ yes ☑ no

Person examining contents:
Date: 11/5/09
Initials: _____

Temp should be above freezing to 6°C for all sample except Biota.
Biota Samples should be received ≤ 0°C.

		Comments:
Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☐Yes ☑No ☐N/A	6.
Rush Turn Around Time Requested:	☑Yes ☐No ☐N/A	7.
Sufficient Volume:	☑Yes ☐No ☐N/A	8.
Correct Containers Used:	☑Yes ☐No ☐N/A	9.
-Pace Containers Used:	☑Yes ☐No ☐N/A	
Containers Intact:	☑Yes ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☑N/A	11.
Sample Labels match COC:	☑Yes ☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix: W		
All containers needing preservation have been checked.	☐Yes ☐No ☑N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☐Yes ☐No ☑N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☐Yes ☐No	Initial when completed / Lot # of added preservative
Samples checked for dechlorination:	☐Yes ☐No ☑N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes ☑No ☐N/A	15.
Trip Blank Present:	☑Yes ☐No ☐N/A	16.
Trip Blank Custody Seals Present	☑Yes ☐No ☐N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____ **Date:** 11/5/09

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

Samples Collected 11/09/09

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(920)469-2436

November 11, 2009

Mark Bailey
RMT Greenville
30 Patewood Drive
Suite100, Patewood Plaza One
Greenville, SC 296153535

RE: Project: 71238.40 SANGAMO
Pace Project No.: 4025130

Dear Mark Bailey:
Enclosed are the analytical results for sample(s) received by the laboratory on November 10, 2009. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Kang Khang

kang.khang@pacelabs.com
Project Manager

Enclosures

cc: Lisa Clark, RMT - GREENVILLE
Terry Hertz, RMT GREENVILLE
Mark Miesfeldt, RMT Greenville

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CoC-SIGNED; HT-OK; TEMP-OK; NARR-OK

SURRS -RECS OK

MBLK -CLEAN

LCS/LCSD -RECS & RPDS OK

MS/MSD - BATCH QC; RPDS & RECS OK

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November 11, 2009

NO FLAGS

TLH 11/12/09

Mark Bailey
RMT Greenville
30 Patewood Drive
Suite100, Patewood Plaza One
Greenville, SC 296153535

RE: Project: 71238.40 SANGAMO
Pace Project No.: 4025130

Dear Mark Bailey:
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If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Kang Khang

kang.khang@pacelabs.com
Project Manager

Enclosures

cc: Lisa Clark, RMT - GREENVILLE
Terry Hertz, RMT GREENVILLE
Mark Miesfeldt, RMT Greenville

REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 71238.40 SANGAMO
Pace Project No.: 4025130

Green Bay Certification IDs

California Certification #: 09268CA
Florida/NELAP Certification #: E87948
Illinois Certification #: 200050
Kentucky Certification #: 82
Louisiana Certification #: 04168
Minnesota Certification #: 055-999-334
New York Certification #: 11887
New York Certification #: 11888
North Carolina Certification #: 503
North Dakota Certification #: R-150
South Carolina Certification #: 83006001
Wisconsin Certification #: 405132750
Wisconsin DATCP Certification #: 105-444
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SAMPLE SUMMARY

Project: 71238.40 SANGAMO
Pace Project No.: 4025130

Lab ID	Sample ID	Matrix	Date Collected	Date Received
4025130001	**SPMW-15**	Water	11/09/09 15:00	11/10/09 09:55

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SAMPLE ANALYTE COUNT

Project: 71238.40 SANGAMO
Pace Project No.: 4025130

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
4025130001	**SPMW-15**	EPA 8260	SMT	37	PASI-G

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PROJECT NARRATIVE

Project: 71238.40 SANGAMO
Pace Project No.: 4025130

Method: EPA 8260
Description: 8260 MSV
Client: RMT - GREENVILLE
Date: November 11, 2009

General Information:
1 sample was analyzed for EPA 8260. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: 71238.40 SANGAMO
Pace Project No.: 4025130

Sample: SPMW-15 **Lab ID: 4025130001** Collected: 11/09/09 15:00 Received: 11/10/09 09:55 Matrix: Water

Parameters	Results	Units	PQL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	50.0	2.5		11/10/09 21:09	67-64-1	
Benzene	ND	ug/L	2.5	2.5		11/10/09 21:09	71-43-2	
Bromodichloromethane	ND	ug/L	2.5	2.5		11/10/09 21:09	75-27-4	
Bromoform	ND	ug/L	2.5	2.5		11/10/09 21:09	75-25-2	
Bromomethane	ND	ug/L	2.5	2.5		11/10/09 21:09	74-83-9	
2-Butanone (MEK)	ND	ug/L	50.0	2.5		11/10/09 21:09	78-93-3	
Carbon disulfide	ND	ug/L	2.5	2.5		11/10/09 21:09	75-15-0	
Carbon tetrachloride	ND	ug/L	2.5	2.5		11/10/09 21:09	56-23-5	
Chlorobenzene	ND	ug/L	2.5	2.5		11/10/09 21:09	108-90-7	
Chloroethane	ND	ug/L	2.5	2.5		11/10/09 21:09	75-00-3	
Chloroform	**22.1**	ug/L	12.5	2.5		11/10/09 21:09	67-66-3	
Chloromethane	ND	ug/L	2.5	2.5		11/10/09 21:09	74-87-3	
Dibromochloromethane	ND	ug/L	2.5	2.5		11/10/09 21:09	124-48-1	
1,1-Dichloroethane	ND	ug/L	2.5	2.5		11/10/09 21:09	75-34-3	
1,2-Dichloroethane	ND	ug/L	2.5	2.5		11/10/09 21:09	107-06-2	
1,1-Dichloroethene	ND	ug/L	2.5	2.5		11/10/09 21:09	75-35-4	
cis-1,2-Dichloroethene	**49.5**	ug/L	2.5	2.5		11/10/09 21:09	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	2.5	2.5		11/10/09 21:09	156-60-5	
1,2-Dichloropropane	ND	ug/L	2.5	2.5		11/10/09 21:09	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	2.5	2.5		11/10/09 21:09	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	2.5	2.5		11/10/09 21:09	10061-02-6	
Ethylbenzene	ND	ug/L	2.5	2.5		11/10/09 21:09	100-41-4	
2-Hexanone	ND	ug/L	12.5	2.5		11/10/09 21:09	591-78-6	
Methylene Chloride	ND	ug/L	2.5	2.5		11/10/09 21:09	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	12.5	2.5		11/10/09 21:09	108-10-1	
Styrene	ND	ug/L	2.5	2.5		11/10/09 21:09	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	2.5	2.5		11/10/09 21:09	79-34-5	
Tetrachloroethene	**282**	ug/L	2.5	2.5		11/10/09 21:09	127-18-4	
Toluene	ND	ug/L	2.5	2.5		11/10/09 21:09	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	2.5	2.5		11/10/09 21:09	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	2.5	2.5		11/10/09 21:09	79-00-5	
Trichloroethene	**460**	ug/L	2.5	2.5		11/10/09 21:09	79-01-6	
Vinyl chloride	ND	ug/L	2.5	2.5		11/10/09 21:09	75-01-4	
Xylene (Total)	ND	ug/L	7.5	2.5		11/10/09 21:09	1330-20-7	
4-Bromofluorobenzene (S)	123	%	70-130	2.5		11/10/09 21:09	460-00-4	
Dibromofluoromethane (S)	103	%	70-130	2.5		11/10/09 21:09	1868-53-7	
Toluene-d8 (S)	99	%	70-130	2.5		11/10/09 21:09	2037-26-5	

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QUALITY CONTROL DATA

Project: 71238.40 SANGAMO
Pace Project No.: 4025130

QC Batch: MSV/6056 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 4025130001

METHOD BLANK: 232601 Matrix: Water
Associated Lab Samples: 4025130001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	11/10/09 10:31	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	11/10/09 10:31	
1,1,2-Trichloroethane	ug/L	ND	1.0	11/10/09 10:31	
1,1-Dichloroethane	ug/L	ND	1.0	11/10/09 10:31	
1,1-Dichloroethene	ug/L	ND	1.0	11/10/09 10:31	
1,2-Dichloroethane	ug/L	ND	1.0	11/10/09 10:31	
1,2-Dichloropropane	ug/L	ND	1.0	11/10/09 10:31	
2-Butanone (MEK)	ug/L	ND	20.0	11/10/09 10:31	
2-Hexanone	ug/L	ND	5.0	11/10/09 10:31	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	11/10/09 10:31	
Acetone	ug/L	ND	20.0	11/10/09 10:31	
Benzene	ug/L	ND	1.0	11/10/09 10:31	
Bromodichloromethane	ug/L	ND	1.0	11/10/09 10:31	
Bromoform	ug/L	ND	1.0	11/10/09 10:31	
Bromomethane	ug/L	ND	1.0	11/10/09 10:31	
Carbon disulfide	ug/L	ND	1.0	11/10/09 10:31	
Carbon tetrachloride	ug/L	ND	1.0	11/10/09 10:31	
Chlorobenzene	ug/L	ND	1.0	11/10/09 10:31	
Chloroethane	ug/L	ND	1.0	11/10/09 10:31	
Chloroform	ug/L	ND	5.0	11/10/09 10:31	
Chloromethane	ug/L	ND	1.0	11/10/09 10:31	
cis-1,2-Dichloroethene	ug/L	ND	1.0	11/10/09 10:31	
cis-1,3-Dichloropropene	ug/L	ND	1.0	11/10/09 10:31	
Dibromochloromethane	ug/L	ND	1.0	11/10/09 10:31	
Ethylbenzene	ug/L	ND	1.0	11/10/09 10:31	
Methylene Chloride	ug/L	ND	1.0	11/10/09 10:31	
Styrene	ug/L	ND	1.0	11/10/09 10:31	
Tetrachloroethene	ug/L	ND	1.0	11/10/09 10:31	
Toluene	ug/L	ND	1.0	11/10/09 10:31	
trans-1,2-Dichloroethene	ug/L	ND	1.0	11/10/09 10:31	
trans-1,3-Dichloropropene	ug/L	ND	1.0	11/10/09 10:31	
Trichloroethene	ug/L	ND	1.0	11/10/09 10:31	
Vinyl chloride	ug/L	ND	1.0	11/10/09 10:31	
Xylene (Total)	ug/L	ND	3.0	11/10/09 10:31	
4-Bromofluorobenzene (S)	%	123	70-130	11/10/09 10:31	
Dibromofluoromethane (S)	%	96	70-130	11/10/09 10:31	
Toluene-d8 (S)	%	101	70-130	11/10/09 10:31	

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QUALITY CONTROL DATA

Project: 71238.40 SANGAMO
Pace Project No.: 4025130

LABORATORY CONTROL SAMPLE & LCSD: 232602 232603

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/L	50	60.6	60.3	121	121	70-132	.4	20	
1,1,2,2-Tetrachloroethane	ug/L	50	43.1	45.7	86	91	69-130	6	20	
1,1,2-Trichloroethane	ug/L	50	45.8	48.7	92	97	70-130	6	20	
1,1-Dichloroethane	ug/L	50	56.3	56.5	113	113	70-130	.4	20	
1,1-Dichloroethene	ug/L	50	48.5	45.5	97	91	70-130	6	20	
1,2-Dichloroethane	ug/L	50	64.4	64.2	129	128	70-134	.3	20	
1,2-Dichloropropane	ug/L	50	54.0	56.3	108	113	70-130	4	20	
2-Butanone (MEK)	ug/L	50	39.0	44.3	78	89	36-181	13	35	
2-Hexanone	ug/L	50	51.1	55.4	102	111	46-171	8	27	
4-Methyl-2-pentanone (MIBK)	ug/L	50	54.1	64.2	108	128	50-150	17	20	
Acetone	ug/L	50	32.4	28.3	65	57	10-200	14	36	
Benzene	ug/L	50	51.0	51.4	102	103	70-131	.9	20	
Bromodichloromethane	ug/L	50	55.5	60.5	111	121	70-130	8	20	
Bromoform	ug/L	50	46.6	46.0	93	92	70-130	1	20	
Bromomethane	ug/L	50	44.4	50.8	89	102	23-200	13	20	
Carbon disulfide	ug/L	50	43.0	42.4	86	85	70-138	2	20	
Carbon tetrachloride	ug/L	50	60.5	58.9	121	118	70-144	3	20	
Chlorobenzene	ug/L	50	51.6	51.9	103	104	70-130	.6	20	
Chloroethane	ug/L	50	48.2	49.2	96	98	70-136	2	20	
Chloroform	ug/L	50	58.1	55.5	116	111	70-130	5	20	
Chloromethane	ug/L	50	53.6	53.3	107	107	54-148	.4	20	
cis-1,2-Dichloroethene	ug/L	50	49.6	50.0	99	100	70-130	.8	20	
cis-1,3-Dichloropropene	ug/L	50	51.2	53.8	102	108	70-130	5	20	
Dibromochloromethane	ug/L	50	44.2	43.3	88	87	70-130	2	20	
Ethylbenzene	ug/L	50	55.0	56.4	110	113	70-130	2	20	
Methylene Chloride	ug/L	50	42.8	40.5	86	81	66-130	6	20	
Styrene	ug/L	50	46.9	46.9	94	94	70-130	.02	20	
Tetrachloroethene	ug/L	50	51.7	50.9	103	102	75-130	2	20	
Toluene	ug/L	50	53.9	53.8	108	108	70-130	.2	20	
trans-1,2-Dichloroethene	ug/L	50	51.0	48.7	102	97	70-130	5	20	
trans-1,3-Dichloropropene	ug/L	50	51.0	51.2	102	102	70-130	.4	20	
Trichloroethene	ug/L	50	52.3	56.4	105	113	70-130	7	20	
Vinyl chloride	ug/L	50	47.5	45.1	95	90	63-141	5	20	
Xylene (Total)	ug/L	150	158	161	105	107	70-130	2	20	
4-Bromofluorobenzene (S)	%				117	120	70-130			
Dibromofluoromethane (S)	%				106	106	70-130			
Toluene-d8 (S)	%				99	99	70-130			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 232796 232797

Parameter	Units	4025063025 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1-Trichloroethane	ug/L	<0.90	50	50	58.9	60.2	118	120	70-137	2	20	
1,1,2,2-Tetrachloroethane	ug/L	<0.20	50	50	48.4	46.2	97	92	67-130	5	20	
1,1,2-Trichloroethane	ug/L	<0.42	50	50	48.6	47.7	97	95	70-130	2	20	
1,1-Dichloroethane	ug/L	<0.75	50	50	53.9	56.3	108	113	70-130	4	20	
1,1-Dichloroethene	ug/L	<0.57	50	50	46.1	49.8	92	100	70-130	8	20	

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QUALITY CONTROL DATA

Project: 71238.40 SANGAMO
Pace Project No.: 4025130

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 232796 232797

Parameter	Units	4025063025 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dichloroethane	ug/L	<0.36	50	50	61.7	63.5	123	127	69-134	3	20	
1,2-Dichloropropane	ug/L	<0.49	50	50	56.4	54.9	113	110	70-130	3	20	
2-Butanone (MEK)	ug/L	<4.3	50	50	42.2	39.5	84	79	36-181	7	35	
2-Hexanone	ug/L	<2.0	50	50	63.3	54.4	127	109	46-171	15	27	
4-Methyl-2-pentanone (MIBK)	ug/L	<1.2	50	50	68.5	60.6	137	121	50-150	12	20	
Acetone	ug/L	<5.0	50	50	34.8	31.8	70	64	10-200	9	36	
Benzene	ug/L	<0.41	50	50	50.8	53.0	102	106	69-131	4	20	
Bromodichloromethane	ug/L	<0.56	50	50	56.4	54.2	113	108	70-130	4	20	
Bromoform	ug/L	<0.94	50	50	47.2	47.4	94	95	68-130	.5	20	
Bromomethane	ug/L	<0.91	50	50	46.9	51.4	94	103	22-200	9	20	
Carbon disulfide	ug/L	<0.66	50	50	39.9	43.0	80	86	68-138	8	20	
Carbon tetrachloride	ug/L	<0.49	50	50	59.8	59.9	120	120	70-144	.2	20	
Chlorobenzene	ug/L	<0.41	50	50	52.1	51.6	104	103	70-130	.9	20	
Chloroethane	ug/L	<0.97	50	50	48.8	51.5	98	103	66-136	5	20	
Chloroform	ug/L	<1.3	50	50	53.5	58.1	107	116	70-130	8	20	
Chloromethane	ug/L	<0.24	50	50	51.2	51.2	102	102	54-148	.08	20	
cis-1,2-Dichloroethene	ug/L	<0.83	50	50	47.1	50.3	94	101	70-130	7	20	
cis-1,3-Dichloropropene	ug/L	<0.20	50	50	53.3	51.7	107	103	70-130	3	20	
Dibromochloromethane	ug/L	<0.81	50	50	44.2	44.5	88	89	70-130	.7	20	
Ethylbenzene	ug/L	<0.54	50	50	57.5	55.4	115	111	70-130	4	20	
Methylene Chloride	ug/L	<0.43	50	50	39.1	42.9	78	86	64-130	9	20	
Styrene	ug/L	<0.86	50	50	48.6	46.6	97	93	43-130	4	20	
Tetrachloroethene	ug/L	<0.45	50	50	50.6	52.6	101	105	70-130	4	20	
Toluene	ug/L	<0.67	50	50	53.2	52.1	106	104	70-130	2	20	
trans-1,2-Dichloroethene	ug/L	<0.89	50	50	48.0	50.0	96	100	70-130	4	20	
trans-1,3-Dichloropropene	ug/L	<0.19	50	50	51.0	51.0	102	102	70-130	.06	20	
Trichloroethene	ug/L	<0.48	50	50	55.5	54.3	111	109	70-130	2	20	
Vinyl chloride	ug/L	<0.18	50	50	47.2	47.5	94	95	59-141	.7	20	
Xylene (Total)	ug/L	<2.6	150	150	161	157	107	105	70-130	3	20	
4-Bromofluorobenzene (S)	%						119	121	70-130			
Dibromofluoromethane (S)	%						98	106	70-130			
Toluene-d8 (S)	%						97	100	70-130			

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(920)469-2436

QUALIFIERS

Project: 71238.40 SANGAMO
Pace Project No.: 4025130

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

Pace Analytical is NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

U - Indicates the compound was analyzed for, but not detected.

LABORATORIES

PASI-G Pace Analytical Services - Green Bay

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 71238.40 SANGAMO
Pace Project No.: 4025130

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
4025130001	**SPMW-15**	EPA 8260	MSV/6056		

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RMT

CHAIN OF CUSTODY RECORD

77261
4025130

30 Patewood Drive, Suite 100, Patewood Plaza One, Greenville, SC 29615-3535
Phone 864/281-0030 • Fax 864/281-0288

Project No. 7823B.40

Project/Client: SANGAMO.

Project Manager/Contact Person: S. WEBB / LISA CLARK.

Lab No.	Yr. 09 Date	Time	(1) per Lisa Clark 11/10/09 Sample Station ID	Total Number of Containers	MATRIX	Analyses Requested VOC 15	Filtered (Yes/No) N	Preserved (Code) 5	Comments:
	11/9	1500	SPMW-15	3	GW	3			24 Hour Turn Around

PRESERVED CODES
A — NONE
B — HNO_3
C — H_2SO_4
D — NaOH
E — HCl
F — METHANOL
G — _____

SPECIAL INSTRUCTIONS

8712 6041 8513

SAMPLER Relinquished by (Signature)	Date/Time	Received by (Signature)	Date/Time
[signature]	11/9/09 1600	FED EX	11/9/09 1620
Relinquished by (Signature)	Date/Time	Received by (Signature)	Date/Time
FedEx	11/10/09 955	[signature]	11/10/09 955
Relinquished by (Signature)	Date/Time	Received by (Signature)	Date/Time

HAZARDS ASSOCIATED WITH SAMPLES
☐ Flammable
☐ Corrosive
☐ Highly Toxic
☐ Other (list) _____

Turn Around (circle one) Normal Rush
Report Due _____

(For Lab Use Only)
Receipt Temp:
Temp Blank Y (N)
1°
Receipt pH (Wet/Metals)

Custody Seal: Present/(Absent) Intact/Not Intact Seal #s

F-268 (10/08)

WHITE—LABORATORY COPY YELLOW—REPORT APPENDIX PINK—SAMPLER/SUBMITTER

Pace Analytical Services, Inc.
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Green Bay, WI 54302

Pace Analytical

Sample Condition Upon Receipt

Client Name: RMT Project # 4025130

Courier: [X] Fed Ex [ ] UPS [ ] USPS [ ] Client [ ] Commercial [ ] Pace Other _____

Tracking #: _____

Custody Seal on Cooler/Box Present: [ ] yes [X] no Seals intact: [ ] yes [ ] no

Custody Seal on Samples Present: [ ] yes [X] no Seals intact: [ ] yes [ ] no

Packing Material: [ ] Bubble Wrap [X] Bubble Bags [ ] None Other

Thermometer Used JB Type of Ice: (Wet) Blue Dry None [ ] Samples on ice, cooling process has begun

Cooler Temperature 1° Biological Tissue is Frozen: [ ] yes [ ] no

Temp Blank Present: [ ] yes [X] no

Optional
Proj. Due Date:
Proj. Name:

Person examining contents:
Date: 11/10/09
Initials: MRV

Temp should be above freezing to 6°C for all sample except Biota.
Biota Samples should be received ≤ 0°C.

		Comments:
Chain of Custody Present:	[X]Yes [ ]No [ ]N/A	1.
Chain of Custody Filled Out:	[X]Yes [ ]No [ ]N/A	2.
Chain of Custody Relinquished:	[X]Yes [ ]No [ ]N/A	3.
Sampler Name & Signature on COC:	[ ]Yes [X]No [ ]N/A	4.
Samples Arrived within Hold Time:	[X]Yes [ ]No [ ]N/A	5.
Short Hold Time Analysis (<72hr):	[ ]Yes [X]No [ ]N/A	6.
Rush Turn Around Time Requested:	[X]Yes [ ]No [ ]N/A	7.
Sufficient Volume:	[X]Yes [ ]No [ ]N/A	8.
Correct Containers Used:	[X]Yes [ ]No [ ]N/A	9.
-Pace Containers Used:	[X]Yes [ ]No [ ]N/A	
Containers Intact:	[X]Yes [ ]No [ ]N/A	10.
Filtered volume received for Dissolved tests	[ ]Yes [ ]No [X]N/A	11.
Sample Labels match COC:	[X]Yes [ ]No [ ]N/A	12.
-Includes date/time/ID/Analysis Matrix: W		
All containers needing preservation have been checked.	[ ]Yes [ ]No [X]N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	[ ]Yes [ ]No [X]N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	[ ]Yes [ ]No	Initial when completed / Lot # of added preservative
Samples checked for dechlorination:	[ ]Yes [ ]No [X]N/A	14.
Headspace in VOA Vials (>6mm):	[ ]Yes [X]No [ ]N/A	15. MRV 11/10/09
Trip Blank Present:	[ ]Yes [X]No [ ]N/A	16.
Trip Blank Custody Seals Present	[ ]Yes [ ]No [X]N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: MAS for KK **Date:** 11-10-09

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

Samples Collected 11/16/09

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Green Bay, WI 54302
(920)469-2436

November 19, 2009

Mark Bailey
RMT Greenville
30 Patewood Drive
Suite100, Patewood Plaza One
Greenville, SC 296153535

RE: Project: 71238.50 SCHLUMBERGER
Pace Project No.: 4025481

Dear Mark Bailey:
Enclosed are the analytical results for sample(s) received by the laboratory on November 17, 2009. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Kang Khang

kang.khang@pacelabs.com
Project Manager

Enclosures

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CoC-SIGNED; TEMP-OK; NARR-OK; HT-OK

TBLK-01 - CLEAN
SURRS - RECS OK
MBLK - CLEAN
LCS/LCSD - RECS & RPDs OK
MS/MSD - BATCH QC - RECS & RPDs OK

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(920)469-2436

November 19, 2009

Mark Bailey
RMT Greenville
30 Patewood Drive
Suite100, Patewood Plaza One
Greenville, SC 296153535

NO FLAGS TLH 11/20/09

It was unclear in the field as to the source of the water sampled at GWS-08. Potential sources include:
- Ponded water from storm run-off.
- Ponded water from groundwater seep.

MAM 1-29-10

RE: Project: 71238.50 SCHLUMBERGER
Pace Project No.: 4025481

Dear Mark Bailey:
Enclosed are the analytical results for sample(s) received by the laboratory on November 17, 2009. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Kang Khang

kang.khang@pacelabs.com
Project Manager

Enclosures

REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 71238.50 SCHLUMBERGER
Pace Project No.: 4025481

Green Bay Certification IDs

California Certification #: 09268CA
Florida/NELAP Certification #: E87948
Illinois Certification #: 200050
Kentucky Certification #: 82
Louisiana Certification #: 04168
Minnesota Certification #: 055-999-334
New York Certification #: 11887
New York Certification #: 11888
North Carolina Certification #: 503
North Dakota Certification #: R-150
South Carolina Certification #: 83006001
Wisconsin Certification #: 405132750
Wisconsin DATCP Certification #: 105-444
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SAMPLE SUMMARY

Project: 71238.50 SCHLUMBERGER
Pace Project No.: 4025481

Lab ID	Sample ID	Matrix	Date Collected	Date Received
4025481001	**TBLK-01**	Water	11/16/09 00:00	11/17/09 09:30
4025481002	**GWS-08**	Water	11/16/09 15:10	11/17/09 09:30
4025481003	**AREA 2 SEEP**	Water	11/16/09 14:50	11/17/09 09:30

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SAMPLE ANALYTE COUNT

Project: 71238.50 SCHLUMBERGER
Pace Project No.: 4025481

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
4025481001	TBLK-01	EPA 8260	JJB	36	PASI-G
4025481002	GWS-08	EPA 8260	JJB	36	PASI-G
4025481003	AREA 2 SEEP	EPA 8260	JJB	36	PASI-G

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PROJECT NARRATIVE

Project: 71238.50 SCHLUMBERGER
Pace Project No.: 4025481

Method: EPA 8260
Description: 8260 MSV
Client: RMT - GREENVILLE
Date: November 19, 2009

General Information:
3 samples were analyzed for EPA 8260. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: 71238.50 SCHLUMBERGER
Pace Project No.: 4025481

Sample: TBLK-01 **Lab ID: 4025481001** Collected: 11/16/09 00:00 Received: 11/17/09 09:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
1,1,1-Trichloroethane	ND	ug/L	1.0	1		11/19/09 00:06	71-55-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		11/19/09 00:06	79-34-5	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		11/19/09 00:06	79-00-5	
1,1-Dichloroethane	ND	ug/L	1.0	1		11/19/09 00:06	75-34-3	
1,1-Dichloroethene	ND	ug/L	1.0	1		11/19/09 00:06	75-35-4	
1,2-Dichloroethane	ND	ug/L	1.0	1		11/19/09 00:06	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	2.0	1		11/19/09 00:06	540-59-0	
1,2-Dichloropropane	ND	ug/L	1.0	1		11/19/09 00:06	78-87-5	
2-Butanone (MEK)	ND	ug/L	20.0	1		11/19/09 00:06	78-93-3	
2-Hexanone	ND	ug/L	5.0	1		11/19/09 00:06	591-78-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		11/19/09 00:06	108-10-1	
Acetone	ND	ug/L	20.0	1		11/19/09 00:06	67-64-1	
Benzene	ND	ug/L	1.0	1		11/19/09 00:06	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	1		11/19/09 00:06	75-27-4	
Bromoform	ND	ug/L	1.0	1		11/19/09 00:06	75-25-2	
Bromomethane	ND	ug/L	1.0	1		11/19/09 00:06	74-83-9	
Carbon disulfide	ND	ug/L	1.0	1		11/19/09 00:06	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		11/19/09 00:06	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		11/19/09 00:06	108-90-7	
Chloroethane	ND	ug/L	1.0	1		11/19/09 00:06	75-00-3	
Chloroform	ND	ug/L	5.0	1		11/19/09 00:06	67-66-3	
Chloromethane	ND	ug/L	1.0	1		11/19/09 00:06	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	1		11/19/09 00:06	124-48-1	
Ethylbenzene	ND	ug/L	1.0	1		11/19/09 00:06	100-41-4	
Methylene Chloride	ND	ug/L	1.0	1		11/19/09 00:06	75-09-2	
Styrene	ND	ug/L	1.0	1		11/19/09 00:06	100-42-5	
Tetrachloroethene	ND	ug/L	1.0	1		11/19/09 00:06	127-18-4	
Toluene	ND	ug/L	1.0	1		11/19/09 00:06	108-88-3	
Trichloroethene	ND	ug/L	1.0	1		11/19/09 00:06	79-01-6	
Vinyl chloride	ND	ug/L	1.0	1		11/19/09 00:06	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		11/19/09 00:06	1330-20-7	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		11/19/09 00:06	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		11/19/09 00:06	10061-02-6	
4-Bromofluorobenzene (S)	93	%	70-130	1		11/19/09 00:06	460-00-4	
Dibromofluoromethane (S)	94	%	70-130	1		11/19/09 00:06	1868-53-7	
Toluene-d8 (S)	98	%	70-130	1		11/19/09 00:06	2037-26-5	

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ANALYTICAL RESULTS

Project: 71238.50 SCHLUMBERGER
Pace Project No.: 4025481

Sample: GWS-08 **Lab ID: 4025481002** Collected: 11/16/09 15:10 Received: 11/17/09 09:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
1,1,1-Trichloroethane	ND	ug/L	1.0	1		11/19/09 00:30	71-55-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		11/19/09 00:30	79-34-5	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		11/19/09 00:30	79-00-5	
1,1-Dichloroethane	ND	ug/L	1.0	1		11/19/09 00:30	75-34-3	
1,1-Dichloroethene	ND	ug/L	1.0	1		11/19/09 00:30	75-35-4	
1,2-Dichloroethane	ND	ug/L	1.0	1		11/19/09 00:30	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	2.0	1		11/19/09 00:30	540-59-0	
1,2-Dichloropropane	ND	ug/L	1.0	1		11/19/09 00:30	78-87-5	
2-Butanone (MEK)	ND	ug/L	20.0	1		11/19/09 00:30	78-93-3	
2-Hexanone	ND	ug/L	5.0	1		11/19/09 00:30	591-78-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		11/19/09 00:30	108-10-1	
Acetone	ND	ug/L	20.0	1		11/19/09 00:30	67-64-1	
Benzene	ND	ug/L	1.0	1		11/19/09 00:30	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	1		11/19/09 00:30	75-27-4	
Bromoform	ND	ug/L	1.0	1		11/19/09 00:30	75-25-2	
Bromomethane	ND	ug/L	1.0	1		11/19/09 00:30	74-83-9	
Carbon disulfide	ND	ug/L	1.0	1		11/19/09 00:30	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		11/19/09 00:30	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		11/19/09 00:30	108-90-7	
Chloroethane	ND	ug/L	1.0	1		11/19/09 00:30	75-00-3	
Chloroform	ND	ug/L	5.0	1		11/19/09 00:30	67-66-3	
Chloromethane	ND	ug/L	1.0	1		11/19/09 00:30	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	1		11/19/09 00:30	124-48-1	
Ethylbenzene	ND	ug/L	1.0	1		11/19/09 00:30	100-41-4	
Methylene Chloride	ND	ug/L	1.0	1		11/19/09 00:30	75-09-2	
Styrene	ND	ug/L	1.0	1		11/19/09 00:30	100-42-5	
Tetrachloroethene	ND	ug/L	1.0	1		11/19/09 00:30	127-18-4	
Toluene	ND	ug/L	1.0	1		11/19/09 00:30	108-88-3	
Trichloroethene	ND	ug/L	1.0	1		11/19/09 00:30	79-01-6	
Vinyl chloride	ND	ug/L	1.0	1		11/19/09 00:30	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		11/19/09 00:30	1330-20-7	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		11/19/09 00:30	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		11/19/09 00:30	10061-02-6	
4-Bromofluorobenzene (S)	93	%	70-130	1		11/19/09 00:30	460-00-4	
Dibromofluoromethane (S)	96	%	70-130	1		11/19/09 00:30	1868-53-7	
Toluene-d8 (S)	98	%	70-130	1		11/19/09 00:30	2037-26-5	

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ANALYTICAL RESULTS

Project: 71238.50 SCHLUMBERGER
Pace Project No.: 4025481

Sample: AREA 2 SEEP **Lab ID: 4025481003** Collected: 11/16/09 14:50 Received: 11/17/09 09:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
1,1,1-Trichloroethane	ND	ug/L	5.0	5		11/19/09 00:53	71-55-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	5		11/19/09 00:53	79-34-5	
1,1,2-Trichloroethane	ND	ug/L	5.0	5		11/19/09 00:53	79-00-5	
1,1-Dichloroethane	ND	ug/L	5.0	5		11/19/09 00:53	75-34-3	
1,1-Dichloroethene	ND	ug/L	5.0	5		11/19/09 00:53	75-35-4	
1,2-Dichloroethane	ND	ug/L	5.0	5		11/19/09 00:53	107-06-2	
1,2-Dichloroethene (Total)	**945**	ug/L	10.0	5		11/19/09 00:53	540-59-0	
1,2-Dichloropropane	ND	ug/L	5.0	5		11/19/09 00:53	78-87-5	
2-Butanone (MEK)	ND	ug/L	100	5		11/19/09 00:53	78-93-3	
2-Hexanone	ND	ug/L	25.0	5		11/19/09 00:53	591-78-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	5		11/19/09 00:53	108-10-1	
Acetone	ND	ug/L	100	5		11/19/09 00:53	67-64-1	
Benzene	ND	ug/L	5.0	5		11/19/09 00:53	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	5		11/19/09 00:53	75-27-4	
Bromoform	ND	ug/L	5.0	5		11/19/09 00:53	75-25-2	
Bromomethane	ND	ug/L	5.0	5		11/19/09 00:53	74-83-9	
Carbon disulfide	ND	ug/L	5.0	5		11/19/09 00:53	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	5		11/19/09 00:53	56-23-5	
Chlorobenzene	ND	ug/L	5.0	5		11/19/09 00:53	108-90-7	
Chloroethane	ND	ug/L	5.0	5		11/19/09 00:53	75-00-3	
Chloroform	ND	ug/L	25.0	5		11/19/09 00:53	67-66-3	
Chloromethane	ND	ug/L	5.0	5		11/19/09 00:53	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	5		11/19/09 00:53	124-48-1	
Ethylbenzene	ND	ug/L	5.0	5		11/19/09 00:53	100-41-4	
Methylene Chloride	ND	ug/L	5.0	5		11/19/09 00:53	75-09-2	
Styrene	ND	ug/L	5.0	5		11/19/09 00:53	100-42-5	
Tetrachloroethene	**31.8**	ug/L	5.0	5		11/19/09 00:53	127-18-4	
Toluene	ND	ug/L	5.0	5		11/19/09 00:53	108-88-3	
Trichloroethene	**181**	ug/L	5.0	5		11/19/09 00:53	79-01-6	
Vinyl chloride	**9.5**	ug/L	5.0	5		11/19/09 00:53	75-01-4	
Xylene (Total)	ND	ug/L	15.0	5		11/19/09 00:53	1330-20-7	
cis-1,3-Dichloropropene	ND	ug/L	5.0	5		11/19/09 00:53	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	5		11/19/09 00:53	10061-02-6	
4-Bromofluorobenzene (S)	93	%	70-130	5		11/19/09 00:53	460-00-4	
Dibromofluoromethane (S)	94	%	70-130	5		11/19/09 00:53	1868-53-7	
Toluene-d8 (S)	99	%	70-130	5		11/19/09 00:53	2037-26-5	

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QUALITY CONTROL DATA

Project: 71238.50 SCHLUMBERGER
Pace Project No.: 4025481

QC Batch: MSV/6165 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 4025481001, 4025481002, 4025481003

METHOD BLANK: 236760 Matrix: Water
Associated Lab Samples: 4025481001, 4025481002, 4025481003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	11/18/09 18:36	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	11/18/09 18:36	
1,1,2-Trichloroethane	ug/L	ND	1.0	11/18/09 18:36	
1,1-Dichloroethane	ug/L	ND	1.0	11/18/09 18:36	
1,1-Dichloroethene	ug/L	ND	1.0	11/18/09 18:36	
1,2-Dichloroethane	ug/L	ND	1.0	11/18/09 18:36	
1,2-Dichloroethene (Total)	ug/L	ND	2.0	11/18/09 18:36	
1,2-Dichloropropane	ug/L	ND	1.0	11/18/09 18:36	
2-Butanone (MEK)	ug/L	ND	20.0	11/18/09 18:36	
2-Hexanone	ug/L	ND	5.0	11/18/09 18:36	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	11/18/09 18:36	
Acetone	ug/L	ND	20.0	11/18/09 18:36	
Benzene	ug/L	ND	1.0	11/18/09 18:36	
Bromodichloromethane	ug/L	ND	1.0	11/18/09 18:36	
Bromoform	ug/L	ND	1.0	11/18/09 18:36	
Bromomethane	ug/L	ND	1.0	11/18/09 18:36	
Carbon disulfide	ug/L	ND	1.0	11/18/09 18:36	
Carbon tetrachloride	ug/L	ND	1.0	11/18/09 18:36	
Chlorobenzene	ug/L	ND	1.0	11/18/09 18:36	
Chloroethane	ug/L	ND	1.0	11/18/09 18:36	
Chloroform	ug/L	ND	5.0	11/18/09 18:36	
Chloromethane	ug/L	ND	1.0	11/18/09 18:36	
cis-1,3-Dichloropropene	ug/L	ND	1.0	11/18/09 18:36	
Dibromochloromethane	ug/L	ND	1.0	11/18/09 18:36	
Ethylbenzene	ug/L	ND	1.0	11/18/09 18:36	
Methylene Chloride	ug/L	ND	1.0	11/18/09 18:36	
Styrene	ug/L	ND	1.0	11/18/09 18:36	
Tetrachloroethene	ug/L	ND	1.0	11/18/09 18:36	
Toluene	ug/L	ND	1.0	11/18/09 18:36	
trans-1,3-Dichloropropene	ug/L	ND	1.0	11/18/09 18:36	
Trichloroethene	ug/L	ND	1.0	11/18/09 18:36	
Vinyl chloride	ug/L	ND	1.0	11/18/09 18:36	
Xylene (Total)	ug/L	ND	3.0	11/18/09 18:36	
4-Bromofluorobenzene (S)	%	91	70-130	11/18/09 18:36	
Dibromofluoromethane (S)	%	95	70-130	11/18/09 18:36	
Toluene-d8 (S)	%	97	70-130	11/18/09 18:36	

LABORATORY CONTROL SAMPLE & LCSD: 236761 236762

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/L	50	48.5	48.3	97	97	70-132	.4	20	

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QUALITY CONTROL DATA

Project: 71238.50 SCHLUMBERGER
Pace Project No.: 4025481

LABORATORY CONTROL SAMPLE & LCSD: 236761 236762

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,1,2,2-Tetrachloroethane	ug/L	50	40.6	38.6	81	77	69-130	5	20	
1,1,2-Trichloroethane	ug/L	50	45.0	46.0	90	92	70-130	2	20	
1,1-Dichloroethane	ug/L	50	49.0	48.2	98	96	70-130	2	20	
1,1-Dichloroethene	ug/L	50	63.9	64.7	128	129	70-130	1	20	
1,2-Dichloroethane	ug/L	50	51.2	49.7	102	99	70-134	3	20	
1,2-Dichloroethene (Total)	ug/L	100	97.9	98.0	98	98	70-130	.04	20	
1,2-Dichloropropane	ug/L	50	46.9	47.9	94	96	70-130	2	20	
2-Butanone (MEK)	ug/L	50	37.9	40.4	76	81	36-181	.7	35	
2-Hexanone	ug/L	50	35.3	36.6	71	73	46-171	3	27	
4-Methyl-2-pentanone (MIBK)	ug/L	50	37.4	38.0	75	76	50-150	2	20	
Acetone	ug/L	50	45.6	41.1	91	82	10-200	10	36	
Benzene	ug/L	50	49.8	48.9	100	98	70-131	2	20	
Bromodichloromethane	ug/L	50	47.3	47.6	95	95	70-130	.6	20	
Bromoform	ug/L	50	40.7	41.3	81	83	70-130	1	20	
Bromomethane	ug/L	50	62.4	69.3	125	139	23-200	10	20	
Carbon disulfide	ug/L	50	60.3	60.5	121	121	70-138	.3	20	
Carbon tetrachloride	ug/L	50	50.9	51.8	102	104	70-144	2	20	
Chlorobenzene	ug/L	50	49.2	48.8	98	98	70-130	.7	20	
Chloroethane	ug/L	50	61.8	64.3	124	129	70-136	4	20	
Chloroform	ug/L	50	51.3	50.4	103	101	70-130	2	20	
Chloromethane	ug/L	50	57.0	55.3	114	111	54-148	3	20	
cis-1,3-Dichloropropene	ug/L	50	42.7	44.4	85	89	70-130	4	20	
Dibromochloromethane	ug/L	50	43.0	43.4	86	87	70-130	.9	20	
Ethylbenzene	ug/L	50	51.2	50.7	102	101	70-130	1	20	
Methylene Chloride	ug/L	50	62.7	62.3	125	125	66-130	.7	20	
Styrene	ug/L	50	44.6	44.2	89	88	70-130	.8	20	
Tetrachloroethene	ug/L	50	49.6	50.3	99	101	75-130	1	20	
Toluene	ug/L	50	49.9	50.1	100	100	70-130	.3	20	
trans-1,3-Dichloropropene	ug/L	50	41.8	41.7	84	83	70-130	.3	20	
Trichloroethene	ug/L	50	49.0	50.5	98	101	70-130	3	20	
Vinyl chloride	ug/L	50	64.0	63.0	128	126	63-141	2	20	
Xylene (Total)	ug/L	150	153	152	102	102	70-130	.4	20	
4-Bromofluorobenzene (S)	%				94	93	70-130			
Dibromofluoromethane (S)	%				97	97	70-130			
Toluene-d8 (S)	%				100	98	70-130			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 236763 236764

Parameter	Units	4025488021 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1-Trichloroethane	ug/L	<1.0	50	50	49.5	47.1	99	94	70-137	5	20	
1,1,2,2-Tetrachloroethane	ug/L	<1.0	50	50	40.7	39.7	81	79	67-130	3	20	
1,1,2-Trichloroethane	ug/L	<1.0	50	50	45.2	45.9	90	92	70-130	1	20	
1,1-Dichloroethane	ug/L	<1.0	50	50	49.4	47.2	99	94	70-130	5	20	
1,1-Dichloroethene	ug/L	<1.0	50	50	62.5	60.1	125	120	70-130	4	20	
1,2-Dichloroethane	ug/L	<1.0	50	50	50.3	49.8	101	100	69-134	.9	20	
1,2-Dichloroethene (Total)	ug/L	<2.0	100	100	97.9	93.5	98	93	70-130	5	20	

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QUALITY CONTROL DATA

Project: 71238.50 SCHLUMBERGER
Pace Project No.: 4025481

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 236763 236764

Parameter	Units	4025488021 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dichloropropane	ug/L	<1.0	50	50	48.3	46.5	97	93	70-130	4	20	
2-Butanone (MEK)	ug/L	<20.0	50	50	39.4	42.9	79	86	36-181	8	35	
2-Hexanone	ug/L	<5.0	50	50	37.2	36.5	74	73	46-171	2	27	
4-Methyl-2-pentanone (MIBK)	ug/L	<5.0	50	50	38.8	38.7	78	77	50-150	.2	20	
Acetone	ug/L	<20.0	50	50	44.7	46.1	89	92	10-200	3	36	
Benzene	ug/L	<1.0	50	50	49.6	48.0	99	96	69-131	3	20	
Bromodichloromethane	ug/L	<1.0	50	50	47.7	46.8	95	94	70-130	2	20	
Bromoform	ug/L	<1.0	50	50	42.5	41.3	85	83	68-130	3	20	
Bromomethane	ug/L	<1.0	50	50	66.7	65.4	133	131	22-200	2	20	
Carbon disulfide	ug/L	<1.0	50	50	59.7	58.4	119	117	68-138	2	20	
Carbon tetrachloride	ug/L	<1.0	50	50	52.1	51.8	104	104	70-144	.5	20	
Chlorobenzene	ug/L	<1.0	50	50	48.9	48.9	98	98	70-130	.03	20	
Chloroethane	ug/L	<1.0	50	50	63.7	61.2	127	122	66-136	4	20	
Chloroform	ug/L	<5.0	50	50	51.4	50.5	103	101	70-130	2	20	
Chloromethane	ug/L	<1.0	50	50	54.1	53.4	108	107	54-148	1	20	
cis-1,3-Dichloropropene	ug/L	<1.0	50	50	44.3	43.5	89	87	70-130	2	20	
Dibromochloromethane	ug/L	<1.0	50	50	44.4	44.0	89	88	70-130	1	20	
Ethylbenzene	ug/L	<1.0	50	50	50.8	51.3	102	103	70-130	1	20	
Methylene Chloride	ug/L	<1.0	50	50	63.4	60.9	127	122	64-130	4	20	
Styrene	ug/L	<1.0	50	50	41.1	41.7	82	83	43-130	2	20	
Tetrachloroethene	ug/L	<1.0	50	50	50.5	51.3	101	103	70-130	2	20	
Toluene	ug/L	<1.0	50	50	50.4	50.0	100	99	70-130	.9	20	
trans-1,3-Dichloropropene	ug/L	<1.0	50	50	41.9	41.5	84	83	70-130	1	20	
Trichloroethene	ug/L	<1.0	50	50	48.7	47.7	97	95	70-130	2	20	
Vinyl chloride	ug/L	<1.0	50	50	60.2	59.6	120	119	59-141	.9	20	
Xylene (Total)	ug/L	<3.0	150	150	153	152	102	101	70-130	.3	20	
4-Bromofluorobenzene (S)	%						93	97	70-130			
Dibromofluoromethane (S)	%						97	98	70-130			
Toluene-d8 (S)	%						99	100	70-130			

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QUALIFIERS

Project: 71238.50 SCHLUMBERGER
Pace Project No.: 4025481

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

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U - Indicates the compound was analyzed for, but not detected.

LABORATORIES

PASI-G Pace Analytical Services - Green Bay

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 71238.50 SCHLUMBERGER
Pace Project No.: 4025481

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
4025481001	**TBLK-01**	EPA 8260	MSV/6165		
4025481002	**GWS-08**	EPA 8260	MSV/6165		
4025481003	**AREA 2 SEEP**	EPA 8260	MSV/6165		

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RMT

CHAIN OF CUSTODY RECORD

4025481

77349

30 Patewood Drive, Suite 100, Patewood Plaza One, Greenville, SC 29615-3535
Phone 864/281-0030 • Fax 864/281-0288

Project No. 71238.50

Project/Client: Schlumberger

Project Manager/Contact Person: Mike Parker / Travis Tarbet

Lab No.	Yr. 09 Date	Time	Sample Station ID	Total Number of Containers	MATRIX	Analyses Requested: VOCs	Filtered (Yes/No)	Preserved (Code)	Comments:
							N	E	
001	11/16		TBLK-01	3	DI	3			3-40ml
002	11/16	1510	GWS-08	3	GW	3			↓
003	11/16	1450	Area 2 Seep	3	GW	3			

PRESERVED CODES
A — NONE
B — HNO_3
C — H_2SO_4
D — NaOH
E — HCl
F — METHANOL
G — _____

SPECIAL INSTRUCTIONS

SAMPLER Relinquished by (Signature)	Date/Time	Received by (Signature)	Date/Time
Travis Tarbet	11/16/09 1630	FedEx # 1005-7452-7	
Relinquished by (Signature)	Date/Time	Received by (Signature)	Date/Time
FedEx	11/17/09 930	[signature]	11/17/09 930
Relinquished by (Signature)	Date/Time	Received by (Signature)	Date/Time

HAZARDS ASSOCIATED WITH SAMPLES
☐ Flammable
☐ Corrosive
☐ Highly Toxic
☐ Other (list) _____

Turn Around (circle one) Normal (Rush)
Report Due _____

(For Lab Use Only)
Receipt Temp:
Temp Blank (Y) N
0.5°C

Receipt pH (Wet/Metals)
N/A

Custody Seal: (Present)/Absent (Intact)/Not Intact Seal #s

F-268 (10/08)

WHITE—LABORATORY COPY YELLOW—REPORT APPENDIX PINK—SAMPLER/SUBMITTER

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1241 Bellevue Street, Suite 9
Green Bay, WI 54302

Pace Analytical

Sample Condition Upon Receipt

Client Name: RMT Project # 4025481

Courier: ☒ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace Other _____

Tracking #: _____

Custody Seal on Cooler/Box Present: ☒ yes ☐ no Seals intact: ☒ yes ☐ no

Custody Seal on Samples Present: ☐ yes ☒ no Seals intact: ☐ yes ☐ no

Packing Material: ☐ Bubble Wrap ☒ Bubble Bags ☐ None Other

Optional
Proj. Due Date:
Proj. Name:

Thermometer Used JB Type of Ice: (Wet) Blue Dry None ☐ Samples on ice, cooling process has begun

Cooler Temperature 0.5° Biological Tissue is Frozen: ☐ yes ☐ no

Temp Blank Present: ☒ yes ☐ no

Person examining contents:
Date: 11/17/09
Initials: MRN

Temp should be above freezing to 6°C for all sample except Biota.
Biota Samples should be received ≤ 0°C.

		Comments:
Chain of Custody Present:	☒Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☒Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☒Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☐Yes ☒No ☐N/A	4.
Samples Arrived within Hold Time:	☒Yes ☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☐Yes ☒No ☐N/A	6.
Rush Turn Around Time Requested:	☒Yes ☐No ☐N/A	7. COC only says "RUSH" MRN 11/17/09
Sufficient Volume:	☒Yes ☐No ☐N/A	8.
Correct Containers Used:	☒Yes ☐No ☐N/A	9.
-Pace Containers Used:	☒Yes ☐No ☐N/A	
Containers Intact:	☒Yes ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☒N/A	11.
Sample Labels match COC:	☒Yes ☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix: W		
All containers needing preservation have been checked.	☐Yes ☐No ☒N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☐Yes ☐No ☒N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☐Yes ☐No	Initial when completed / Lot # of added preservative
Samples checked for dechlorination:	☐Yes ☐No ☒N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes ☒No ☐N/A	15.
Trip Blank Present:	☒Yes ☐No ☐N/A	16.
Trip Blank Custody Seals Present	☐Yes ☒No ☐N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____ **Date:** 11/17/09

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

Samples Collected 12/04/09

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(920)469-2436

December 11, 2009

Mark Bailey
RMT Greenville
30 Patewood Drive
Suite100, Patewood Plaza One
Greenville, SC 296153535

RE: Project: 71238.40 SANGAMO PLANT SITE
Pace Project No.: 4026231

Dear Mark Bailey:
Enclosed are the analytical results for sample(s) received by the laboratory on December 07, 2009. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Kang Khang

kang.khang@pacelabs.com
Project Manager

Enclosures

cc: Lisa Clark, RMT - GREENVILLE
Terry Hertz, RMT GREENVILLE
Mark Miesfeldt, RMT Greenville

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CoC-SIGNED; TEMP-OK; NARR-OK; HT-OK

SURR-RECS OK
TBLK-09402 — CLEAN
MBLKS — CLEAN
LCS/LCSD — RECS & RPDS OK

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1241 Bellevue Street - Suite 9
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(920)469-2436

December 11, 2009

Mark Bailey
RMT Greenville
30 Patewood Drive
Suite100, Patewood Plaza One
Greenville, SC 296153535

NO FLAGS TLH 12/14/09

RE: Project: 71238.40 SANGAMO PLANT SITE
Pace Project No.: 4026231

Dear Mark Bailey:
Enclosed are the analytical results for sample(s) received by the laboratory on December 07, 2009. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Kang Khang

Kang Khang

kang.khang@pacelabs.com
Project Manager

Enclosures

cc: Lisa Clark, RMT - GREENVILLE
Terry Hertz, RMT GREENVILLE
Mark Miesfeldt, RMT Greenville

REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 71238.40 SANGAMO PLANT SITE
Pace Project No.: 4026231

Green Bay Certification IDs

California Certification #: 09268CA
Florida/NELAP Certification #: E87948
Illinois Certification #: 200050
Kentucky Certification #: 82
Louisiana Certification #: 04168
Minnesota Certification #: 055-999-334
New York Certification #: 11887
New York Certification #: 11888
North Carolina Certification #: 503
North Dakota Certification #: R-150
South Carolina Certification #: 83006001
Wisconsin Certification #: 405132750
Wisconsin DATCP Certification #: 105-444
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SAMPLE SUMMARY

Project: 71238.40 SANGAMO PLANT SITE
Pace Project No.: 4026231

Lab ID	Sample ID	Matrix	Date Collected	Date Received
4026231001	**SPMW-15**	Water	12/04/09 15:50	12/07/09 09:57
4026231002	**SPMW-16**	Water	12/04/09 16:15	12/07/09 09:57
4026231003	**TBLK-09402**	Water	12/04/09 00:00	12/07/09 09:57

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SAMPLE ANALYTE COUNT

Project: 71238.40 SANGAMO PLANT SITE
Pace Project No.: 4026231

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
4026231001	**SPMW-15**	EPA 8082	CAH	10	PASI-G
		EPA 8260	JJB	37	PASI-G
4026231002	**SPMW-16**	EPA 8082	CAH	10	PASI-G
		EPA 8260	JJB	37	PASI-G
4026231003	**TBLK-09402**	EPA 8260	JJB	37	PASI-G

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PROJECT NARRATIVE

Project: 71238.40 SANGAMO PLANT SITE
Pace Project No.: 4026231

Method: **EPA 8082**
Description: 8082 GCS PCB
Client: RMT - GREENVILLE
Date: December 11, 2009

General Information:
2 samples were analyzed for EPA 8082. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3510 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: GCSV/3795

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: 71238.40 SANGAMO PLANT SITE
Pace Project No.: 4026231

Method: EPA 8260
Description: 8260 MSV
Client: RMT - GREENVILLE
Date: December 11, 2009

General Information:
3 samples were analyzed for EPA 8260. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: 71238.40 SANGAMO PLANT SITE
Pace Project No.: 4026231

Sample: SPMW-15 **Lab ID: 4026231001** Collected: 12/04/09 15:50 Received: 12/07/09 09:57 Matrix: Water

Parameters	Results	Units	PQL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3510							
PCB-1016 (Aroclor 1016)	ND	ug/L	0.50	1	12/08/09 18:00	12/10/09 19:40	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/L	0.50	1	12/08/09 18:00	12/10/09 19:40	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/L	0.50	1	12/08/09 18:00	12/10/09 19:40	11141-16-5	
PCB-1242 (Aroclor 1242)	**0.14J**	ug/L	0.50	1	12/08/09 18:00	12/10/09 19:40	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/L	0.50	1	12/08/09 18:00	12/10/09 19:40	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/L	0.50	1	12/08/09 18:00	12/10/09 19:40	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/L	0.50	1	12/08/09 18:00	12/10/09 19:40	11096-82-5	
PCB, Total	**0.14J**	ug/L	0.50	1	12/08/09 18:00	12/10/09 19:40	1336-36-3	
Tetrachloro-m-xylene (S)	79	%	51-130	1	12/08/09 18:00	12/10/09 19:40	877-09-8	
Decachlorobiphenyl (S)	96	%	18-150	1	12/08/09 18:00	12/10/09 19:40	2051-24-3	
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	5		12/10/09 09:50	67-64-1	
Benzene	ND	ug/L	5.0	5		12/10/09 09:50	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	5		12/10/09 09:50	75-27-4	
Bromoform	ND	ug/L	5.0	5		12/10/09 09:50	75-25-2	
Bromomethane	ND	ug/L	5.0	5		12/10/09 09:50	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	5		12/10/09 09:50	78-93-3	
Carbon disulfide	ND	ug/L	5.0	5		12/10/09 09:50	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	5		12/10/09 09:50	56-23-5	
Chlorobenzene	ND	ug/L	5.0	5		12/10/09 09:50	108-90-7	
Chloroethane	ND	ug/L	5.0	5		12/10/09 09:50	75-00-3	
Chloroform	**10.9J**	ug/L	25.0	5		12/10/09 09:50	67-66-3	
Chloromethane	ND	ug/L	5.0	5		12/10/09 09:50	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	5		12/10/09 09:50	124-48-1	
1,1-Dichloroethane	ND	ug/L	5.0	5		12/10/09 09:50	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	5		12/10/09 09:50	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	5		12/10/09 09:50	75-35-4	
cis-1,2-Dichloroethene	**70.5**	ug/L	5.0	5		12/10/09 09:50	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	5		12/10/09 09:50	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	5		12/10/09 09:50	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	5		12/10/09 09:50	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	5		12/10/09 09:50	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	5		12/10/09 09:50	100-41-4	
2-Hexanone	ND	ug/L	25.0	5		12/10/09 09:50	591-78-6	
Methylene Chloride	ND	ug/L	5.0	5		12/10/09 09:50	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	5		12/10/09 09:50	108-10-1	
Styrene	ND	ug/L	5.0	5		12/10/09 09:50	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	5		12/10/09 09:50	79-34-5	
Tetrachloroethene	**309**	ug/L	5.0	5		12/10/09 09:50	127-18-4	
Toluene	ND	ug/L	5.0	5		12/10/09 09:50	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	5		12/10/09 09:50	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	5		12/10/09 09:50	79-00-5	
Trichloroethene	**512**	ug/L	5.0	5		12/10/09 09:50	79-01-6	
Vinyl chloride	ND	ug/L	5.0	5		12/10/09 09:50	75-01-4	
Xylene (Total)	ND	ug/L	15.0	5		12/10/09 09:50	1330-20-7	
4-Bromofluorobenzene (S)	79	%	70-130	5		12/10/09 09:50	460-00-4	

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ANALYTICAL RESULTS

Project: 71238.40 SANGAMO PLANT SITE
Pace Project No.: 4026231

Sample: SPMW-15 **Lab ID: 4026231001** Collected: 12/04/09 15:50 Received: 12/07/09 09:57 Matrix: Water

Parameters	Results	Units	PQL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Dibromofluoromethane (S)	101	%	70-130	5		12/10/09 09:50	1868-53-7	
Toluene-d8 (S)	92	%	70-130	5		12/10/09 09:50	2037-26-5	

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ANALYTICAL RESULTS

Project: 71238.40 SANGAMO PLANT SITE
Pace Project No.: 4026231

Sample: SPMW-16 **Lab ID: 4026231002** Collected: 12/04/09 16:15 Received: 12/07/09 09:57 Matrix: Water

Parameters	Results	Units	PQL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3510							
PCB-1016 (Aroclor 1016)	ND	ug/L	0.50	1	12/08/09 18:00	12/10/09 19:57	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/L	0.50	1	12/08/09 18:00	12/10/09 19:57	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/L	0.50	1	12/08/09 18:00	12/10/09 19:57	11141-16-5	
PCB-1242 (Aroclor 1242)	**0.38J**	ug/L	0.50	1	12/08/09 18:00	12/10/09 19:57	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/L	0.50	1	12/08/09 18:00	12/10/09 19:57	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/L	0.50	1	12/08/09 18:00	12/10/09 19:57	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/L	0.50	1	12/08/09 18:00	12/10/09 19:57	11096-82-5	
PCB, Total	**0.38J**	ug/L	0.50	1	12/08/09 18:00	12/10/09 19:57	1336-36-3	
Tetrachloro-m-xylene (S)	80	%	51-130	1	12/08/09 18:00	12/10/09 19:57	877-09-8	
Decachlorobiphenyl (S)	91	%	18-150	1	12/08/09 18:00	12/10/09 19:57	2051-24-3	
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	200	10		12/10/09 10:13	67-64-1	
Benzene	ND	ug/L	10.0	10		12/10/09 10:13	71-43-2	
Bromodichloromethane	ND	ug/L	10.0	10		12/10/09 10:13	75-27-4	
Bromoform	ND	ug/L	10.0	10		12/10/09 10:13	75-25-2	
Bromomethane	ND	ug/L	10.0	10		12/10/09 10:13	74-83-9	
2-Butanone (MEK)	ND	ug/L	200	10		12/10/09 10:13	78-93-3	
Carbon disulfide	ND	ug/L	10.0	10		12/10/09 10:13	75-15-0	
Carbon tetrachloride	ND	ug/L	10.0	10		12/10/09 10:13	56-23-5	
Chlorobenzene	ND	ug/L	10.0	10		12/10/09 10:13	108-90-7	
Chloroethane	ND	ug/L	10.0	10		12/10/09 10:13	75-00-3	
Chloroform	ND	ug/L	50.0	10		12/10/09 10:13	67-66-3	
Chloromethane	ND	ug/L	10.0	10		12/10/09 10:13	74-87-3	
Dibromochloromethane	ND	ug/L	10.0	10		12/10/09 10:13	124-48-1	
1,1-Dichloroethane	ND	ug/L	10.0	10		12/10/09 10:13	75-34-3	
1,2-Dichloroethane	ND	ug/L	10.0	10		12/10/09 10:13	107-06-2	
1,1-Dichloroethene	ND	ug/L	10.0	10		12/10/09 10:13	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	10.0	10		12/10/09 10:13	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	10.0	10		12/10/09 10:13	156-60-5	
1,2-Dichloropropane	ND	ug/L	10.0	10		12/10/09 10:13	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	10.0	10		12/10/09 10:13	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	10.0	10		12/10/09 10:13	10061-02-6	
Ethylbenzene	ND	ug/L	10.0	10		12/10/09 10:13	100-41-4	
2-Hexanone	ND	ug/L	50.0	10		12/10/09 10:13	591-78-6	
Methylene Chloride	ND	ug/L	10.0	10		12/10/09 10:13	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	50.0	10		12/10/09 10:13	108-10-1	
Styrene	ND	ug/L	10.0	10		12/10/09 10:13	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	10.0	10		12/10/09 10:13	79-34-5	
Tetrachloroethene	**666**	ug/L	10.0	10		12/10/09 10:13	127-18-4	
Toluene	ND	ug/L	10.0	10		12/10/09 10:13	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	10.0	10		12/10/09 10:13	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	10.0	10		12/10/09 10:13	79-00-5	
Trichloroethene	**1260**	ug/L	10.0	10		12/10/09 10:13	79-01-6	
Vinyl chloride	ND	ug/L	10.0	10		12/10/09 10:13	75-01-4	
Xylene (Total)	ND	ug/L	30.0	10		12/10/09 10:13	1330-20-7	
4-Bromofluorobenzene (S)	78	%	70-130	10		12/10/09 10:13	460-00-4	

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ANALYTICAL RESULTS

Project: 71238.40 SANGAMO PLANT SITE
Pace Project No.: 4026231

Sample: SPMW-16 **Lab ID: 4026231002** Collected: 12/04/09 16:15 Received: 12/07/09 09:57 Matrix: Water

Parameters	Results	Units	PQL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Dibromofluoromethane (S)	104	%	70-130	10		12/10/09 10:13	1868-53-7	
Toluene-d8 (S)	90	%	70-130	10		12/10/09 10:13	2037-26-5	

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ANALYTICAL RESULTS

Project: 71238.40 SANGAMO PLANT SITE
Pace Project No.: 4026231

Sample: TBLK-09402 **Lab ID: 4026231003** Collected: 12/04/09 00:00 Received: 12/07/09 09:57 Matrix: Water

Parameters	Results	Units	PQL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	20.0	1		12/10/09 09:28	67-64-1	
Benzene	ND	ug/L	1.0	1		12/10/09 09:28	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	1		12/10/09 09:28	75-27-4	
Bromoform	ND	ug/L	1.0	1		12/10/09 09:28	75-25-2	
Bromomethane	ND	ug/L	1.0	1		12/10/09 09:28	74-83-9	
2-Butanone (MEK)	ND	ug/L	20.0	1		12/10/09 09:28	78-93-3	
Carbon disulfide	ND	ug/L	1.0	1		12/10/09 09:28	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		12/10/09 09:28	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		12/10/09 09:28	108-90-7	
Chloroethane	ND	ug/L	1.0	1		12/10/09 09:28	75-00-3	
Chloroform	ND	ug/L	5.0	1		12/10/09 09:28	67-66-3	
Chloromethane	ND	ug/L	1.0	1		12/10/09 09:28	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	1		12/10/09 09:28	124-48-1	
1,1-Dichloroethane	ND	ug/L	1.0	1		12/10/09 09:28	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		12/10/09 09:28	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		12/10/09 09:28	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		12/10/09 09:28	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		12/10/09 09:28	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		12/10/09 09:28	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		12/10/09 09:28	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		12/10/09 09:28	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	1		12/10/09 09:28	100-41-4	
2-Hexanone	ND	ug/L	5.0	1		12/10/09 09:28	591-78-6	
Methylene Chloride	ND	ug/L	1.0	1		12/10/09 09:28	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		12/10/09 09:28	108-10-1	
Styrene	ND	ug/L	1.0	1		12/10/09 09:28	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		12/10/09 09:28	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		12/10/09 09:28	127-18-4	
Toluene	ND	ug/L	1.0	1		12/10/09 09:28	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		12/10/09 09:28	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		12/10/09 09:28	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		12/10/09 09:28	79-01-6	
Vinyl chloride	ND	ug/L	1.0	1		12/10/09 09:28	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		12/10/09 09:28	1330-20-7	
4-Bromofluorobenzene (S)	79	%	70-130	1		12/10/09 09:28	460-00-4	
Dibromofluoromethane (S)	100	%	70-130	1		12/10/09 09:28	1868-53-7	
Toluene-d8 (S)	91	%	70-130	1		12/10/09 09:28	2037-26-5	

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QUALITY CONTROL DATA

Project: 71238.40 SANGAMO PLANT SITE
Pace Project No.: 4026231

QC Batch: OEXT/6396 Analysis Method: EPA 8082
QC Batch Method: EPA 3510 Analysis Description: 8082 GCS PCB
Associated Lab Samples: 4026231001, 4026231002

METHOD BLANK: 244184 Matrix: Water
Associated Lab Samples: 4026231001, 4026231002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
PCB-1016 (Aroclor 1016)	ug/L	ND	0.50	12/10/09 16:29	
PCB-1221 (Aroclor 1221)	ug/L	ND	0.50	12/10/09 16:29	
PCB-1232 (Aroclor 1232)	ug/L	ND	0.50	12/10/09 16:29	
PCB-1242 (Aroclor 1242)	ug/L	ND	0.50	12/10/09 16:29	
PCB-1248 (Aroclor 1248)	ug/L	ND	0.50	12/10/09 16:29	
PCB-1254 (Aroclor 1254)	ug/L	ND	0.50	12/10/09 16:29	
PCB-1260 (Aroclor 1260)	ug/L	ND	0.50	12/10/09 16:29	
Decachlorobiphenyl (S)	%	27	18-150	12/10/09 16:29	
Tetrachloro-m-xylene (S)	%	77	51-130	12/10/09 16:29	

LABORATORY CONTROL SAMPLE & LCSD: 244185 244186

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
PCB-1016 (Aroclor 1016)	ug/L	2.5	2.4	2.5	97	101	70-130	3	20	
PCB-1221 (Aroclor 1221)	ug/L		ND	ND					20	
PCB-1232 (Aroclor 1232)	ug/L		ND	ND					20	
PCB-1242 (Aroclor 1242)	ug/L		ND	ND					20	
PCB-1248 (Aroclor 1248)	ug/L		ND	ND					20	
PCB-1254 (Aroclor 1254)	ug/L		ND	ND					20	
PCB-1260 (Aroclor 1260)	ug/L	2.5	2.3	2.4	91	97	62-130	6	20	
Decachlorobiphenyl (S)	%				76	95	18-150			
Tetrachloro-m-xylene (S)	%				77	88	51-130			

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QUALITY CONTROL DATA

Project: 71238.40 SANGAMO PLANT SITE
Pace Project No.: 4026231

QC Batch: MSV/6331 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 4026231001, 4026231002, 4026231003

METHOD BLANK: 243889 Matrix: Water
Associated Lab Samples: 4026231001, 4026231002, 4026231003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	12/09/09 09:32	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	12/09/09 09:32	
1,1,2-Trichloroethane	ug/L	ND	1.0	12/09/09 09:32	
1,1-Dichloroethane	ug/L	ND	1.0	12/09/09 09:32	
1,1-Dichloroethene	ug/L	ND	1.0	12/09/09 09:32	
1,2-Dichloroethane	ug/L	ND	1.0	12/09/09 09:32	
1,2-Dichloropropane	ug/L	ND	1.0	12/09/09 09:32	
2-Butanone (MEK)	ug/L	ND	20.0	12/09/09 09:32	
2-Hexanone	ug/L	ND	5.0	12/09/09 09:32	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	12/09/09 09:32	
Acetone	ug/L	ND	20.0	12/09/09 09:32	
Benzene	ug/L	ND	1.0	12/09/09 09:32	
Bromodichloromethane	ug/L	ND	1.0	12/09/09 09:32	
Bromoform	ug/L	ND	1.0	12/09/09 09:32	
Bromomethane	ug/L	ND	1.0	12/09/09 09:32	
Carbon disulfide	ug/L	ND	1.0	12/09/09 09:32	
Carbon tetrachloride	ug/L	ND	1.0	12/09/09 09:32	
Chlorobenzene	ug/L	ND	1.0	12/09/09 09:32	
Chloroethane	ug/L	ND	1.0	12/09/09 09:32	
Chloroform	ug/L	ND	5.0	12/09/09 09:32	
Chloromethane	ug/L	ND	1.0	12/09/09 09:32	
cis-1,2-Dichloroethene	ug/L	ND	1.0	12/09/09 09:32	
cis-1,3-Dichloropropene	ug/L	ND	1.0	12/09/09 09:32	
Dibromochloromethane	ug/L	ND	1.0	12/09/09 09:32	
Ethylbenzene	ug/L	ND	1.0	12/09/09 09:32	
Methylene Chloride	ug/L	ND	1.0	12/09/09 09:32	
Styrene	ug/L	ND	1.0	12/09/09 09:32	
Tetrachloroethene	ug/L	ND	1.0	12/09/09 09:32	
Toluene	ug/L	ND	1.0	12/09/09 09:32	
trans-1,2-Dichloroethene	ug/L	ND	1.0	12/09/09 09:32	
trans-1,3-Dichloropropene	ug/L	ND	1.0	12/09/09 09:32	
Trichloroethene	ug/L	ND	1.0	12/09/09 09:32	
Vinyl chloride	ug/L	ND	1.0	12/09/09 09:32	
Xylene (Total)	ug/L	ND	3.0	12/09/09 09:32	
4-Bromofluorobenzene (S)	%	81	70-130	12/09/09 09:32	
Dibromofluoromethane (S)	%	95	70-130	12/09/09 09:32	
Toluene-d8 (S)	%	93	70-130	12/09/09 09:32	

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QUALITY CONTROL DATA

Project: 71238.40 SANGAMO PLANT SITE
Pace Project No.: 4026231

LABORATORY CONTROL SAMPLE & LCSD: 243890 243891

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/L	50	51.4	50.9	103	102	70-132	1	20	
1,1,2,2-Tetrachloroethane	ug/L	50	49.9	51.1	100	102	69-130	2	20	
1,1,2-Trichloroethane	ug/L	50	50.0	50.8	100	102	70-130	2	20	
1,1-Dichloroethane	ug/L	50	51.9	52.3	104	105	70-130	.8	20	
1,1-Dichloroethene	ug/L	50	48.5	49.1	97	98	70-130	1	20	
1,2-Dichloroethane	ug/L	50	49.6	50.2	99	100	70-134	1	20	
1,2-Dichloropropane	ug/L	50	48.4	48.5	97	97	70-130	.2	20	
2-Butanone (MEK)	ug/L	50	57.4	53.5	115	107	36-181	7	35	
2-Hexanone	ug/L	50	47.6	47.1	95	94	46-171	1	27	
4-Methyl-2-pentanone (MIBK)	ug/L	50	45.6	45.6	91	91	50-150	.1	20	
Acetone	ug/L	50	58.1	54.0	116	108	10-200	7	36	
Benzene	ug/L	50	49.8	50.3	100	101	70-131	1	20	
Bromodichloromethane	ug/L	50	52.0	52.1	104	104	70-130	.3	20	
Bromoform	ug/L	50	46.3	47.8	93	96	70-130	3	20	
Bromomethane	ug/L	50	31.1	37.4	62	75	23-200	18	20	
Carbon disulfide	ug/L	50	47.6	48.7	95	97	70-138	2	20	
Carbon tetrachloride	ug/L	50	57.5	58.6	115	117	70-144	2	20	
Chlorobenzene	ug/L	50	52.3	53.3	105	107	70-130	2	20	
Chloroethane	ug/L	50	44.5	46.4	89	93	70-136	4	20	
Chloroform	ug/L	50	50.5	50.4	101	101	70-130	.2	20	
Chloromethane	ug/L	50	34.8	35.9	70	72	54-148	3	20	
cis-1,2-Dichloroethene	ug/L	50	51.9	52.3	104	105	70-130	.9	20	
cis-1,3-Dichloropropene	ug/L	50	49.3	49.5	99	99	70-130	.3	20	
Dibromochloromethane	ug/L	50	46.9	47.6	94	95	70-130	1	20	
Ethylbenzene	ug/L	50	52.3	53.0	105	106	70-130	1	20	
Methylene Chloride	ug/L	50	46.3	47.4	93	95	66-130	2	20	
Styrene	ug/L	50	48.6	49.8	97	100	70-130	3	20	
Tetrachloroethene	ug/L	50	51.4	53.2	103	106	75-130	3	20	
Toluene	ug/L	50	52.5	53.5	105	107	70-130	2	20	
trans-1,2-Dichloroethene	ug/L	50	46.9	48.4	94	97	70-130	3	20	
trans-1,3-Dichloropropene	ug/L	50	49.1	49.0	98	98	70-130	.4	20	
Trichloroethene	ug/L	50	52.6	52.1	105	104	70-130	.9	20	
Vinyl chloride	ug/L	50	41.4	42.0	83	84	63-141	1	20	
Xylene (Total)	ug/L	150	163	166	109	111	70-130	2	20	
4-Bromofluorobenzene (S)	%				83	84	70-130			
Dibromofluoromethane (S)	%				98	97	70-130			
Toluene-d8 (S)	%				95	95	70-130			

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QUALIFIERS

Project: 71238.40 SANGAMO PLANT SITE
Pace Project No.: 4026231

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

Pace Analytical is NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

U - Indicates the compound was analyzed for, but not detected.

LABORATORIES

PASI-G Pace Analytical Services - Green Bay

BATCH QUALIFIERS

Batch: GCSV/3795

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 71238.40 SANGAMO PLANT SITE
Pace Project No.: 4026231

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
4026231001	**SPMW-15**	EPA 3510	OEXT/6396	EPA 8082	GCSV/3795
4026231002	**SPMW-16**	EPA 3510	OEXT/6396	EPA 8082	GCSV/3795
4026231001	**SPMW-15**	EPA 8260	MSV/6331		
4026231002	**SPMW-16**	EPA 8260	MSV/6331		
4026231003	**TBLK-09402**	EPA 8260	MSV/6331		

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RMT

CHAIN OF CUSTODY RECORD

Vmen

77068

30 Patewood Drive, Suite 100, Patewood Plaza One, Greenville, SC 29615-3535
Phone 864/281-0030 • Fax 864/281-0288

Project No.: 71238.40
Project/Client: Sangamo Plant Site
Project Manager/Contact Person: Mike Parker/Lisa Clark, Terry Hertz

Filtered (Yes/No): N N
Preserved (Code): E A

PRESERVED CODES
A — NONE
B — HNO_3
C — H_2SO_4
D — NaOH
E — HCl
F — METHANOL
G — _____

Lab No.	Yr. 09 Date	Time	Sample Station ID	Total Number of Containers	MATRIX	Analyses Requested: VOC's	PCB's							Comments:
001	12-4	1550	SPMW-15	5	GW	X	X							2-1Lag, 3-40ml
002	12-4	1615	SPMW-16	5	GW	X	X							↓
003			TBLK-09402	3	DI	X								↓
														4026231

SPECIAL INSTRUCTIONS

8682 8759 1630

SAMPLER Relinquished by (Signature)	Date/Time	Received by (Signature)	Date/Time
[signature]	12-4-09 1650	FED	12-4-09 1650
Relinquished by (Signature)	Date/Time	Received by (Signature)	Date/Time
FedEx	12/7/09 940	[signature]	12/7/09 940
Relinquished by (Signature)	Date/Time	Received by (Signature)	Date/Time

HAZARDS ASSOCIATED WITH SAMPLES
- ☐ Flammable
- ☐ Corrosive
- ☐ Highly Toxic
- ☐ Other (list) _____

Turn Around (circle one) Normal Rush
Report Due _____

(For Lab Use Only)
Receipt Temp: Temp Blank Y (N) 1°
Receipt pH (Wet/Metals) N/A

Custody Seal: (Present)/Absent (Intact)/Not Intact Seal #s

F-268 (10/08)

WHITE—LABORATORY COPY YELLOW—REPORT APPENDIX PINK—SAMPLER/SUBMITTER

Pace Analytical Services, Inc.
1241 Bellevue Street, Suite 9
Green Bay, WI 54302

Pace Analytical

Sample Condition Upon Receipt

Client Name: RMT Project # 4026231

Courier: ☒ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace Other _____

Tracking #: _____

Custody Seal on Cooler/Box Present: ☒ yes ☐ no Seals intact: ☒ yes ☐ no

Custody Seal on Samples Present: ☐ yes ☒ no Seals intact: ☐ yes ☐ no

Packing Material: ☐ Bubble Wrap ☒ Bubble Bags ☐ None Other

Optional
Proj. Due Date:
Proj. Name:

Thermometer Used: 3B Type of Ice: (Wet) Blue Dry None ☐ Samples on ice, cooling process has begun

Cooler Temperature: 1° Biological Tissue is Frozen: ☐ yes ☐ no

Temp Blank Present: ☐ yes ☒ no

Person examining contents:
Date: 12/7/09
Initials: MRN

Temp should be above freezing to 6°C for all sample except Biota.
Biota Samples should be received ≤ 0°C.

		Comments:
Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☐Yes ☑No ☐N/A	6.
Rush Turn Around Time Requested:	☐Yes ☑No ☐N/A	7.
Sufficient Volume:	☑Yes ☐No ☐N/A	8.
Correct Containers Used:	☑Yes ☐No ☐N/A	9.
-Pace Containers Used:	☑Yes ☐No ☐N/A	
Containers Intact:	☑Yes ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☒N/A MRN 12/7/09	11.
Sample Labels match COC:	☑Yes ☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix: W		
All containers needing preservation have been checked.	☐Yes ☐No ☒N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☐Yes ☐No ☒N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☐Yes ☐No	Initial when completed / Lot # of added preservative
Samples checked for dechlorination:	☐Yes ☐No ☒N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes ☑No ☐N/A	15.
Trip Blank Present:	☑Yes ☐No ☐N/A	16.
Trip Blank Custody Seals Present	☐Yes ☑No ☐N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____ **Date:** 12/7/09

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

Appendix B
Gore™ Surveys – Final Report

GORE™ Surveys

Final Report

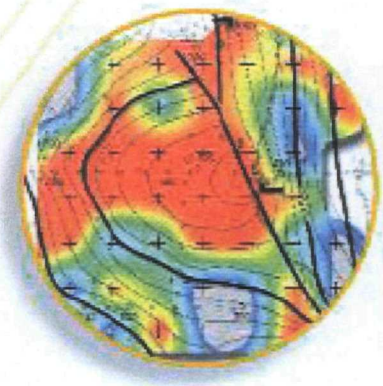
Project:	Schlumberger Remediation
Gore Order Number:	1405381
Date Prepared:	August 3, 2009
Prepared for:	RMT Inc. 30 Patewood Drive Patewood Plaza One Greenville, SC 29615

Written/Submitted by
Hilary G. Trethewey
Project Manager

Hilary G. Trethewey

Reviewed/Approved by
Ray F. Fenstermacher
Project Manager

Analytical Data Reviewed by
Don D'Apolito
Chemist



W.L. Gore & Associates, Inc.
Survey Products Group

GORE™ Surveys - Final Report

REPORT DATE: 08/03/2009 **AUTHOR:** HGT

SITE INFORMATION

Site Reference: Schlumberger Remediation
Gore Production Order Number: 14105381 **Gore Site Code:** EXE, EXG

FIELD PROCEDURES

Total # Modules shipped: 112
Total # Modules Installed: 100
Total # Modules Retrieved: 100
Total # Modules Lost in Field: 0
Total # Modules Not Returned: 0

Field work performed by: RMT Inc.
Total # Trip Blanks Returned: 11
Total # Unused Modules Returned: 1*

Site Code: EXE:
 # Modules shipped: 112
Installation Date(s): 5/26- 5/29/2009
 # Modules Installed: 64
Field work performed by: RMT Inc.

Retrieval date(s): 6/11/2009
 # Modules Retrieved: 64
 # Modules Lost in Field: 0
 # Modules Not Returned: 0

Exposure Time: 13-16 [days]
 # Trip Blanks Returned: 7
 # Unused Modules Returned: 1*

Date/Time Received by Gore: 6/12/2009 12:00 PM By: CW
Chain of Custody Form attached: Yes
Chain of Custody discrepancies: None

Comments:
7 Modules 596764-596773 were identified as trip blanks.
*Module 596666 was noted as "No Sample – No sample taken on GS-06 unused sampler is in box m# sequence" on the installation and retrieval log.

Site Code: EXG:
 # Modules shipped: 112
Installation Date(s): 5/29- 6/1/2009
 # Modules Installed: 36
Field work performed by: RMT Inc.

Retrieval date(s): 6/12/2009
 # Modules Retrieved: 36
 # Modules Lost in Field: 0
 # Modules Not Returned: 0

Exposure Time: 11-14 [days]
 # Trip Blanks Returned: 4
 # Unused Modules Returned: 0

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Date/Time Received by Gore: 6/16/2009 1:30 PM By: MM
Chain of Custody Form attached: Yes
Chain of Custody discrepancies: None

Comments:
4 Modules, 596774-596777 were identified as trip blanks.
The box was returned taped with duct tape which was noted upon receipt at Gore as having an odor.

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GORE™ Surveys - Final Report

ANALYTICAL PROCEDURES

W.L. Gore & Associates' Screening Module Laboratory operates under the guidelines of its Quality Assurance Manual, Operating Procedures and Methods. The quality assurance program is consistent with Good Laboratory Practices (GLP) and ISO Guide 25, "General Requirements for the Competence of Calibration and Testing Laboratories", third edition, 1990.

Instrumentation consists of state of the art gas chromatographs equipped with mass selective detectors, coupled with automated thermal desorption units. Sample preparation simply involves cutting the tip off the bottom of the sample module and transferring one or more exposed sorbent containers (sorbers, each containing engineered adsorbents) to a thermal desorption tube for analysis. Sorbers remain clean and protected from dirt, soil, and ground water by the insertion/retrieval cord, and require no further sample preparation.

Analytical Method Quality Assurance:
The analytical method employed is a modified EPA method 8260/8270. Before each run sequence, two instrument blanks, a sorber containing 5µg BFB (Bromofluorobenzene), and a method blank are analyzed. The BFB mass spectra must meet the criteria set forth in the method before samples can be analyzed. A method blank and a sorber containing BFB are also analyzed after every 30 samples and/or trip blanks. Standards containing the selected target compounds at five calibration levels are analyzed at the beginning of each run. The criterion for each target compound is less than 25% RSD (relative standard deviation). If this criterion is not met for any target compound, the analyst has the option of generating second- or third-order standard curves, as appropriate. A second-source reference standard, at a level of 10µg per target compound, is analyzed after every ten samples and/or trip blanks, and at the end of the run sequence. Positive identification of target compounds is determined by 1) the presence of the target ion and at least two secondary ions; 2) retention time versus reference standard; and, 3) the analyst's judgment.

NOTE: All data have been archived. Any replicate sorbers not used in the initial analysis will be discarded fifteen (15) days from the date of analysis.

Laboratory analysis: thermal desorption, gas chromatography, mass selective detection
Instrument ID: # 5 **Chemist:** FN
Compounds/mixtures requested: A10+TPH
Deviations from Standard Method:
EXE: Method Blank 3 had a 0.01 ug detection for PCE.
EXG: The 50ug level for pentadecane was deleted from the calibration curve due to poor linearity.
Comments: Soil vapor analytes and abbreviations are tabulated in the Data Table Key (page 6).

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GORE™ Surveys - Final Report

DATA TABULATION

 # CONTOUR MAPS ENCLOSED: One (1) B-sized color contour maps
LIST OF MAPS ENCLOSED:

- Tetrachloroethene (PCE)

NOTE: All data values presented in Appendix A represent masses of compound(s) desorbed from the GORE™ Modules received and analyzed by W.L. Gore & Associates, Inc., as identified in the Chain of Custody (Appendix A). The measurement traceability and instrument performance are reproducible and accurate for the measurement process documented. Semi-quantitation of the compound mass is based on a five-level standard calibration.

General Comments:

- This survey reports soil gas mass levels present in the vapor phase. Vapors are subject to a variety of attenuation factors during migration away from the source concentration to the module. Thus, mass levels reported from the module will often be less than concentrations reported in soil and groundwater matrix data. In most instances, the soil gas masses reported on the modules compare favorably with concentrations reported in the soil or groundwater (e.g., where soil gas levels are reported at greater levels relative to other sampled locations on the site, matrix data should reveal the same pattern, and vice versa). However, due to a variety of factors, a perfect comparison between matrix data and soil gas levels can rarely be achieved.
- Soil gas signals reported by this method cannot be identified specifically to soil adsorbed, groundwater, and/or free-product contamination. The soil gas signal reported from each module can evolve from all of these sources. Differentiation between soil and groundwater contamination can only be achieved with prior knowledge of the site history (i.e., the site is known to have groundwater contamination only).
- QA/QC trip blank modules were provided to document potential exposures that were not part of the soil gas signal of interest (i.e., impact during module shipment, installation and retrieval, and storage). The trip blanks are identically manufactured and packaged soil gas modules to those modules placed in the subsurface. However, the trip blanks remain unopened during all phases of the soil gas survey. Levels reported on the trip blanks may indicate potential impact to modules other than the contaminant source of interest.

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- Unresolved peak envelopes (UPEs) are represented as a series of compound peaks clustered together around a central gas chromatograph elution time in the total ion chromatogram. Typically, UPEs are indicative of complex fluid mixtures that are present in the subsurface. UPEs observed early in the chromatogram are considered to indicate the presence of more volatile fluids, while UPEs observed later in the chromatogram may indicate the presence of less volatile fluids. Multiple UPEs may indicate the presence of multiple complex fluids.
- Stacked total ion chromatograms (TICs) are included in Appendix A. The six-digit serial number of each module is incorporated into the TIC identification (e.g.: 123456S.D represents module #123456).

Project Specific Comments:

- The minimum (gray) contour level, for each mapped analyte or group of analytes, was set at the maximum blank level observed or the method detection limit, whichever was greater. The maximum contour level was set at the maximum value observed.
- Background and low levels of TPH, PCE and TCE were detected on the trip blanks and/or the method blanks. Thus, target analyte levels reported for the field-installed modules that exceed trip and method blank levels, and the analyte method detection limit, are more likely to have originated from on-site sources.
- The mapped spatial patterns indicated the presence of PCE throughout the majority of the survey area. Highest levels were detected primarily in the region between and near sites GS-33, GS-26 and GS-79. A relatively "hot spot" was also detected near site GS-03.
- If the objective of the soil gas survey was to delineate the nature and extent of the contamination, then additional soil gas sampling is recommended in those areas where the color contours appear to extend into unsampled areas. Subsequent sampling events can be combined with the data from this event and mapped together to provide greater coverage.

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GORE™ Surveys - Final Report

KEY TO DATA TABLE

UNITS

µg	micrograms (per sorber), reported for compounds
MDL	method detection limit
bdl	below detection limit
nd	non-detect

ANALYTES

TPH	total petroleum hydrocarbons
11DCE	1,1-dichloroethene
ClBENZ	chlorobenzene
ct12DCE	cis- & trans-1,2-dichloroethene
t12DCE	trans-1,2-dichloroethene
c12DCE	cis-1,2-dichloroethene
11DCA	1,1-dichloroethane
111TCA	1,1,1-trichloroethane
12DCA	1,2-dichloroethane
TCE	trichloroethene
PCE	tetrachloroethene
14DCB	1,4-dichlorobenzene
$CHCl_3$	chloroform
CCl_4	carbon tetrachloride
112TCA	1,1,2-trichloroethane
1112TetCA	1,1,1,2-tetrachloroethane
1122TetCA	1,1,2,2-tetrachloroethane
13DCB	1,3-dichlorobenzene
12DCB	1,2-dichlorobenzene

BLANKS

TBn	unexposed trip blanks, travels with the exposed modules
method blank	QA/QC module, documents analytical conditions during analysis

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APPENDIX A:

1. CHAIN OF CUSTODY AND INSTALLATION AND RETRIEVAL LOG
2. DATA TABLE
3. STACKED TOTAL ION CHROMATOGRAMS
4. COLOR CONTOUR MAP

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GORE-SORBER® Screening Survey Chain of Custody

For W.L. Gore & Associates use only
Production Order # 14105381

GORE Creative Technologies Worldwide

W. L. Gore & Associates, Inc., Survey Products Group

100 Chesapeake Boulevard • Elkton, Maryland 21921 • Tel: (410) 392-7600 • Fax (410) 506-4780

Instructions: Customer must complete ALL shaded cells

Customer Name: RMT INC	Site Name: SCHLUMBERGER REMED
Address: 30 PATEWOOD DRIVE	Site Address: SUPPORT ACTIVITES
PATEWOOD PLAZA ONE	
GREENVILLE SC 29615 U.S.A.	Project Manager: M MIESFELDT/A HOFFMA
Phone: (864) 234 9324	Customer Project No.: 12246215
FAX:	Customer P.O. #: 007123840-001 Quote #: 232292

Serial # of Modules Shipped			# of Modules for Installation 100	# of Trip Blanks 12	
# 596661 - # 596689	# - #		Total Modules Shipped: 112 Pieces		
# 596691 - # 596696	# - #		Total Modules Received: Pieces		
# 596698 - # 596768	# - #		Total Modules Installed: Pieces		
# 596772 - # 596777	# - #		Serial # of Trip Blanks (Client Decides)		#
# - #	# - #		# 596764	#	#
# - #	# - #		# 596765	#	#
# - #	# - #		# 596766	#	#
# - #	# - #		# 596767	#	#
# - #	# - #		# 596768	#	#
# - #	# - #		# 596772	#	#
Prepared By: Darlene Gillowdy			# 596773	#	#
Verified By: Clarence Whyte			#	#	#

Installation Performed By:	Installation Method(s) (*circle those that apply*):
Name (*please print*): WKA/WEM Kent Ashley	Slide Hammer Hammer Drill Auger
Company/Affiliation: RMT Inc	Other:
Installation Start Date and Time: 5 / 26 / 09	AM PM
Installation Complete Date and Time: 6 / 01 / 09	AM PM
Retrieval Performed By:	Total Modules Retrieved: 64 Pieces
Name (*please print*): Kent Ashley	Total Modules Lost in Field: None Pieces
Company/Affiliation: RMT	Total Unused Modules Returned: None Pieces
Retrieval Start Date and Time: 6 / 11 / 09	AM PM
Retrieval Complete Date and Time: Parshel Shipment 6 / 11 / 09	AM PM

	Date	Time		Date	Time
Relinquished By Darlene Gillowdy Affiliation: W.L. Gore & Associates, Inc.	5-19-09	9:00	Received By: WKA Affiliation: RMT	5-26-09	AM
Relinquished By WKA Affiliation: RMT	6-11-09	1700	Received By: Affiliation:		
Relinquished By Affiliation			Received By: Clarence Whyte Affiliation: W.L. Gore & Associates, Inc.	6/12/09	12:00

* NOTE - NOT Finnished Will finnish & Ship on Monday 6-15-09

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* NO Sample taken on GS-06 unused Sampler is in box in # Sequence

GORE-SORBER® Screening Survey Installation and Retrieval Log

Page 1 of 3

SITE NAME & LOCATION

LINE #	MODULE #	INSTALLATION DATE/TIME	RETRIEVAL DATE/TIME	EVIDENCE OF LIQUID HYDROCARBONS (LPH) or HYDROCARBON ODOR (Check as appropriate) LPH	ODOR	MODULE IN WATER (check one) NONE	YES	NO	COMMENTS
1.	596661	5/26/09 1430	6/11/09 0945			✓		✓	*Moved 12'S. of mark Depth at 28"
2.	596662	" 1500	" 0951			✓	✓		Depth 28"
3.	596663	5/27/09 1055	" 0954			✓		✓	Depth 28"
4.	596664	" 1105	" 0957			✓		✓	Had refusal at 2' inst at 2' at 18"
5.	596665	" 1120	" 1000			✓		✓	Depth 17"
6.	596666 *	No Sample	No Sample						~~Depth 29"~~ WK
7.	596667	5/27/09 1330	6/11/09 1035			✓		✓	Depth 29"
8.	596668	" 1345	" 1040			✓		✓	Depth at 30"
9.	596669	" 1355	" 1045			✓	✓		Depth at 33"
10.	596670	" 1410	" 1050			✓		✓	Depth at 33"
11.	596671	" 1420	" 1053			✓		✓	Depth at 30"
12.	596672	" 1435	" 1056			✓		✓	Depth at 33"
13.	596673	" 1500	6/11/09 1101			✓	✓		Depth at 30"
14.	596674	" 1520	" 1104						Depth at 33"
15.	596675	" 1540	" 1107			✓	✓		Depth at 33"
16.	596676	" 1600	" 1110			✓	✓		Depth at 33"
17.	596677	" 1610	" 1114			✓		✓	Depth at 33"
18.	596678	1645	" 1117			✓		✓	Depth at 33"
19.	596679	" 1620	" 1120			✓		✓	Depth at 33"
20.	596680	" 1635	" 1123			✓	✓	✓	Depth at 25"
21.	596681	5/28/09 1140	" 1128			✓		✓	Depth at 33"
22.	596682	" 1130	" 1131			✓		✓	Depth at 24"
23.	596683	" 1120	" 1134			✓		✓	Depth at 31"
24.	596684	" 1110	" 1137			✓		✓	Depth at 16"
25.	596685	" 1105	" 1140			✓		✓	Depth at 33"
26.	596686	" 1055	" 1143			✓		✓	Depth at 24"
27.	596687	" 1045	" 1147			✓		✓	Depth at 16"
28.	596688	" 1030	" 1150			✓		✓	Depth at 33"
29.	596689	5/28/09 1015	" 1152			✓		✓	Depth at 18"
30.	596691	1150	" 1240			✓		✓	" at 30"
31.	596692	1200	" 1244			✓		✓	" at 30"
32.	596693	1300	" 1247			✓		✓	" at 33"
33.	596694	1310	" 1251			✓		✓	" at 33"
34.	596695	1320	" 1255			✓		✓	" at 20"
35.	596696	1330	" 1300			✓		✓	" at 20"
36.	596698	1340	" 1305			✓		✓	" at 28"
37.	596699	1350	" 1310			✓		✓	" at 28"
38.	596700	1400	" 1315			✓		✓	" at 20"
39.	596701	5/29/09 1000	" 1313			✓		✓	" at 30"
40.	596702	" 1030	" 1315			✓		✓	" at 16"
41.	596703	" 1040	" 1318			✓		✓	" at 24"
42.	596704	" 1050	" 1320			✓		✓	" at 24"

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GORE-SORBER® Screening Survey Installation and Retrieval Log

SITE NAME & LOCATION

Page 2 of 3

LINE #	MODULE #	INSTALLATION DATE/TIME	RETRIEVAL DATE/TIME	EVIDENCE OF LIQUID HYDROCARBONS (LPH) or HYDROCARBON ODOR (Check as appropriate) LPH	ODOR	NONE	MODULE IN WATER (check one) YES	NO	COMMENTS
43.	596705	5/29/09 1055	6/11/09 1322			✓		✓	Depth at 20"
44.	596706	" 1100	" 1324			✓		✓	" at 30"
45.	596707	" 1105	" 1326			✓		✓	" at 28"
46.	596708	" 1115	" 1330			✓		✓	" at 24"
47.	596709	" 1120	" 1333			✓		✓	" at 30"
48.	596710	" 1130	" 1355			✓		✓	" at 14"
49.	596711	" 1140	" 1353			✓		✓	" 22"
50.	596712	" 1150	" 1350			✓		✓	" 20"
51.	596713	" 1200	" 1348			✓		✓	" 22"
52.	596714	" 1210	" 1345			✓		✓	" 22"
53.	596715	" 1220	" 1343			✓		✓	" 22"
54.	596716	" 1230	" 1340			✓		✓	" 20
55.	596717	" 1240	" 1338			✓		✓	" 18"
56.	596718	" 1250	" 1335			✓		✓	" 18"
57.	596719	" 1400	" 1359			✓		✓	" 24"
58.	596720	" 1410	" 1403			✓		✓	" 20"
59.	596721	" 1420	" 1405			✓		✓	" 20"
60.	596722	" 1430	" 1408			✓		✓	" 20"
61.	596723	" 1440	" 1410			✓		✓	" 18"
62.	596724	" 1450	" 1413			✓		✓	" 18"
63.	596725	" 1500	" 1415			✓		✓	" 16"
64.	596726	" 1510	" 1418			✓		✓	" 16"
65.	596727	" 1520	" 1422			✓		✓	" 16"
66.	596728	6-1-09 0930							Depth at 19"
67.	596729	" 0940							" 19"
68.	596730	" 0950							" 18"
69.	596731	" 1000							" 18"
70.	596732	" 1015							" 30"
71.	596733	" 1025							" 22"
72.	596734	" 1035							" 19"
73.	596735	" 1050							" 18
74.	596736	" 1105							" 22"
75.	596737	" 1115							" 18"
76.	596738	" 1125							" 18"
77.	596739	" 1140							" 24"
78.	596740	" 1310							" 16"
79.	596741	" 1325							" 28
80.	596742	" 1340							" 16"
81.	596743	" 1350							" 22" 22'
82.	596744	" 1410							" 18"
83.	596745	" 1425							" 18"
84.	596746	5/29/09 1825							Depth at 27"

596,727 is bottom Slough

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FORM 8R.8
1/08/0

GORE-SORBER® Screening Survey Installation and Retrieval Log

SITE NAME & LOCATION

LINE #	MODULE #	INSTALLATION DATE/TIME	RETRIEVAL DATE/TIME	EVIDENCE OF LIQUID HYDROCARBONS (LPH) or HYDROCARBON ODOR (Check as appropriate)			MODULE IN WATER (check one)		COMMENTS
				LPH	ODOR	NONE	YES	NO	
85.	596747	1810							Depth at 28"
86.	596748	1800							" 29"
87.	596749	1750							" 27"
88.	596750	1740							" 26"
89.	596751	1730							" 26"
90.	596752	1720							" 26"
91.	596753	1710							" 27"
92.	596754	1700							" 28"
93.	596755	1650							" 28"
94.	596756	1640							" 28"
95.	596757	1630							" 30"
96.	596758	1620							" 30"
97.	596759	1610							" 27" [illegible]
98.	596760	1600							" @ 30"
99.	596761	1550							" 30"
100.	596762	1540							" 30"
101.	596763	5/29/09 1530							" at 30"
102.	596764	TBLK							
103.	596765	TBLK							
104.	596766	TBLK							
105.	596767	TBLK							
106.	596768	TBLK							
107.	596772	TBLK							
108.	596773	TBLK							
109.	596774								
110.	596775								
111.	596776								
112.	596777								
113.									
114.									
115.									
116.									
117.									
118.									
119.									
120.									
121.									
122.									
123.									
124.									
125.									
126.									

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GORE-SORBER® Screening Survey Chain of Custody

For W.L. Gore & Associates use only
Production Order # 14105381

GORE
Creative Technologies Worldwide

W. L. Gore & Associates, Inc., Survey Products Group

100 Chesapeake Boulevard • Elkton, Maryland 21921 • Tel: (410) 392-7600 • Fax (410) 506-4780

Instructions: Customer must complete ALL shaded cells

Customer Name: RMT INC	Site Name: SCHLUMBERGER REMED
Address: 30 PATEWOOD DRIVE	Site Address: SUPPORT ACTIVITES
PATEWOOD PLAZA ONE	
GREENVILLE SC 29615 U.S.A.	Project Manager: M MIESFELDT/A HOFFMA
Phone: (864) 234 9324	Customer Project No.: 12246215
FAX:	Customer P.O. #: 007123840-001 Quote #: 232292

Serial # of Modules Shipped		# of Modules for Installation 100	# of Trip Blanks 12
# 596661 - # 596689	# - #	Total Modules Shipped: 112	Pieces
# 596691 - # 596696	# - #	Total Modules Received:	Pieces
# 596698 - # 596768	# - #	Total Modules Installed:	Pieces
# 596772 - # 596777	# - #	Serial # of Trip Blanks (*Client Decides*)	#
# - #	# - #	# 596774	# #
# - #	# - #	# 596775	# #
# - #	# - #	# 596776	# #
# - #	# - #	# 596777	# #
# - #	# - #	#	# #
# - #	# - #	#	# #
Prepared By: Darlene Gillowdy		#	# #
Verified By: Clarence Whyte		#	# #

Installation Performed By:	Installation Method(s) (*circle those that apply*):
Name (*please print*): Kent Ashley	Slide Hammer Hammer Drill Auger
Company/Affiliation: RMT Inc	Other:
Installation Start Date and Time: 5-29-09 5:29 '09	AM PM
Installation Complete Date and Time: 6:01 '09	AM PM
Retrieval Performed By:	Total Modules Retrieved: 36 Pieces
Name (*please print*): Kent Ashley	Total Modules Lost in Field: none Pieces
Company/Affiliation: RMT Inc	Total Unused Modules Returned: none Pieces
Retrieval Start Date and Time: 6 12 '09	AM PM
Retrieval Complete Date and Time: 6 12 '09	AM PM

	Date	Time		Date	Time
Relinquished By Darlene Gillowdy Affiliation: W.L. Gore & Associates, Inc.	5-19-09	9:00	Received By: Kent Ashley Affiliation: RMT Inc	5-26-09	AM
Relinquished By Affiliation:			Received By: Affiliation:		
Relinquished By Affiliation			Received By: Mary Anne Menghi Affiliation: W.L. Gore & Associates, Inc.	6-16-09	1:30

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FORM 8R.8
1/08/0

GORE-SORBER® Screening Survey Installation and Retrieval Log

SITE NAME & LOCATION

LINE #	MODULE #	INSTALLATION DATE/TIME	RETRIEVAL DATE/TIME	EVIDENCE OF LIQUID HYDROCARBONS (LPH) or HYDROCARBON ODOR (Check as appropriate)			MODULE IN WATER (check one)		COMMENTS
				LPH	ODOR	NONE	YES	NO	
1.	596661	5/26/09 1430							*Moved 12's. of mark
2.	596662	" 1500							
3.	596663	5/27/09 1055							
4.	596664	" 1105							Had refusal at 2' inst at 2'
5.	596665	" 1120							
6.	596666								
7.	596667	5/27/09 1330							
8.	596668	" 1345							Depth at 30"
9.	596669	" 1355							Depth at 33"
10.	596670	" 1410							Depth at 33"
11.	596671	" 1420							Depth at 30"
12.	596672	" 1435							Depth at 33"
13.	596673	" 1500							Depth at 30"
14.	596674	" 1520							Depth at 33"
15.	596675	" 1540							Depth at 33"
16.	596676	" 1600							Depth at 33"
17.	596677	" 1610							Depth at 33"
18.	596678	1645							Depth at 33"
19.	596679	" 1620							Depth at 33"
20.	596680	" 1635							Depth at 25"
21.	596681	5/28/09 1140							Depth at 33"
22.	596682	" 1130							Depth at 24"
23.	596683	" 1120							Depth at 31"
24.	596684	" 1110							Depth at 16"
25.	596685	" 1105							Depth at 33"
26.	596686	" 1055							Depth at 24"
27.	596687	" 1045							Depth at 16"
28.	596688	" 1030							Depth at 33"
29.	596689	5/28/09 1015							Depth at 18"
30.	596691	1150							" at 30"
31.	596692	1200							" at 30"
32.	596693	1300							" at 33"
33.	596694	1310							" at 33"
34.	596695	1320							" at 20"
35.	596696	1330							" at 20"
36.	596698	1340							" at 28"
37.	596699	1350							" at 28"
38.	596700	1400							" at 20"
39.	596701	5/29/09 1000							" at 30"
40.	596702	" 1030							" at 16"
41.	596703	" 1040							" at 24"
42.	596704	" 1050	Sutton 6-11-09						" at 24"

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GORE-SORBER® Screening Survey Installation and Retrieval Log

SITE NAME & LOCATION

Page 2 of 3

LINE #	MODULE #	INSTALLATION DATE/TIME	RETRIEVAL DATE/TIME	EVIDENCE OF LIQUID HYDROCARBONS (LPH) or HYDROCARBON ODOR (Check as appropriate)			MODULE IN WATER (check one)		COMMENTS
				LPH	ODOR	NONE	YES	NO	
43.	596705	5/29/09 1055							Depth at 20"
44.	596706	" 1100							" at 30"
45.	596707	" 1105							" at 28"
46.	596708	" 1115							" at 24"
47.	596709	" 1120							" at 30"
48.	596710	" 1130							" at 14"
49.	596711	" 1140							" 22"
50.	596712	" 1150							" 20"
51.	596713	" 1200							" 22"
52.	596714	" 1210							" 22"
53.	596715	" 1220							" 22"
54.	596716	" 1230							" 20
55.	596717	" 1240							" 18"
56.	596718	" 1250							" 18"
57.	596719	" 1400							" 24"
58.	596720	" 1410							" 20"
59.	596721	" 1420							" 20"
60.	596722	" 1430							" 20"
61.	596723	" 1440							" 18"
62.	596724	" 1450							" 18"
63.	596725	" 1500							" 16"
64.	596726	" 1510							" 16"
65.	596727	" 1520	Sent on 6-11-09						" 16"
66.	596728	6-1-09	6-12-09 0940			✓		✓	Depth at 19"
67.	596729	"	" 0945			✓		✓	" 19"
68.	596730	"	" 0950			✓		✓	" 18"
69.	596731	"	" 0955			✓		✓	" 18"
70.	596732	"	" 1000			✓		✓	" 30"
71.	596733	"	" 1005			✓		✓	" 22"
72.	596734	"	" 1010			✓		✓	" 19"
73.	596735	"	" 1015			✓		✓	" 18
74.	596736	"	" 1020			✓		✓	" 22"
75.	596737	"	" 1025			✓		✓	" 18"
76.	596738	"	" 1030			✓		✓	" 18"
77.	596739	"	" 1045			✓		✓	" 24"
78.	596740	"	" 1050			✓		✓	" 16"
79.	596741	"	" 1055			✓		✓	" 28
80.	596742	"	" 1100			✓		✓	" 16"
81.	596743	"	" 1105			✓		✓	" 22" 22
82.	596744	"	" 1110			✓		✓	" 18"
83.	596745	"	" 1115			✓		✓	" 18"
84.	596746	5/29/09 1825	" 1120			✓		✓	Depth at 27"

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GORE-SORBER® Screening Survey Installation and Retrieval Log

SITE NAME & LOCATION

Page 3 of 3

LINE #	MODULE #	INSTALLATION DATE/TIME	RETRIEVAL DATE/TIME	EVIDENCE OF LIQUID HYDROCARBONS (LPH) or HYDROCARBON ODOR (Check as appropriate)			MODULE IN WATER (check one)		COMMENTS
				LPH	ODOR	NONE	YES	NO	
85.	596747	1810 ✓	6-12-09 1130			✓		✓	Depth at 28"
86.	596748	1800 ✓	" 1135			✓		✓	" 29"
87.	596749	1750 ✓	" 1140			✓		✓	" 27"
88.	596750	1740 ✓	" 1145			✓		✓	" 26"
89.	596751	1730 ✓	" 1150			✓		✓	" 26"
90.	596752	1720 ✓	" 1155			✓		✓	" 26"
91.	596753	1710 ✓	" 1200			✓		✓	" 27"
92.	596754	1700 ✓	" 1205			✓		✓	" 28"
93.	596755	1650 ✓	" 1330			✓		✓	" 28"
94.	596756	1640 ✓	" 1335			✓		✓	" 28"
95.	596757	1630 ✓	" 1340			✓		✓	" 30"
96.	596758	1620 ✓	" 1345			✓		✓	" 30"
97.	596759	1610 ✓	" 1400			✓		✓	" 27" ~~30~~"
98.	596760	1600 ✓	" 1405			✓		✓	" @ 30"
99.	596761	1550 ✓	" 1410			✓		✓	" 30"
100.	596762	1540 ✓	" 1415			✓		✓	" 30"
101.	596763	5/29/09 1530 ✓	" 1420			✓		✓	" at 30"
102.	596764								
103.	596765								
104.	596766								
105.	596767								
106.	596768								
107.	596772								
108.	596773								
109.	596774	TBLK	✓ 6-12-09						
110.	596775	TBLK	✓ "						
111.	596776	TBLK	✓ "						
112.	596777	TBLK	✓ "						
113.									
114.									
115.									
116.									
117.									
118.									
119.									
120.									
121.									
122.									
123.									
124.									
125.									
126.									

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GORE(TM) SURVEYS ANALYTICAL RESULTS
RMT INC, GREENVILLE, SC
GORE CHLORINATED HYDROCARBONS (A10)
SCHLUMBERGER REMED, PICKENS, SC
SITE EXE - PRODUCTION ORDER #14105381

DATE ANALYZED	SAMPLE NAME	TPH, ug	CIBENZ, ug	ct12DCE, ug	t12DCE, ug	c12DCE, ug	11DCA, ug	CHCl3, ug	111TCA, ug	12DCA, ug
	MDL=	0.02	0.01		0.03	0.01	0.01	0.01	0.01	0.01
6/24/09	596661	4.21	nd	nd	nd	nd	nd	nd	nd	nd
6/24/09	596662	7.22	nd	nd	nd	nd	nd	nd	nd	nd
6/24/09	596663	8.27	nd	nd	nd	nd	nd	nd	nd	nd
6/23/09	596664	8.04	nd	nd	nd	nd	nd	nd	nd	nd
6/24/09	596665	3.78	nd	nd	nd	nd	nd	nd	nd	nd
6/22/09	596667	13.84	nd	nd	nd	nd	nd	nd	nd	nd
6/24/09	596668	18.05	nd	nd	nd	nd	0.03	nd	nd	nd
6/23/09	596669	12.53	nd	nd	nd	nd	nd	nd	nd	nd
6/22/09	596670	39.61	nd	nd	nd	nd	nd	nd	nd	nd
6/23/09	596671	2.70	nd	nd	nd	nd	nd	nd	nd	nd
6/24/09	596672	13.62	nd	nd	nd	nd	nd	nd	nd	nd
6/24/09	596673	18.48	nd	nd	nd	nd	nd	nd	nd	nd
6/23/09	596674	16.59	nd	nd	nd	nd	nd	nd	nd	nd
6/24/09	596675	11.52	nd	nd	nd	nd	nd	0.01	nd	nd
6/23/09	596676	3.97	nd	nd	nd	nd	nd	nd	nd	nd
6/23/09	596677	8.39	nd	nd	nd	nd	nd	nd	nd	nd
6/24/09	596678	5.71	nd	nd	nd	nd	nd	nd	nd	nd
6/23/09	596679	5.39	nd	nd	nd	nd	nd	nd	nd	nd
6/23/09	596680	2.63	nd	nd	nd	nd	nd	nd	nd	nd
6/24/09	596681	12.43	nd	nd	nd	nd	nd	nd	nd	nd
6/24/09	596682	3.79	nd	nd	nd	nd	nd	nd	nd	nd
6/24/09	596683	29.83	nd	nd	nd	nd	nd	nd	nd	nd
6/22/09	596684	13.70	nd	nd	nd	nd	nd	nd	nd	nd
6/23/09	596685	14.43	nd	nd	nd	nd	nd	nd	0.27	nd
6/24/09	596686	6.84	0.03	0.07	nd	0.07	nd	nd	0.06	nd
6/23/09	596687	9.44	nd	nd	nd	nd	nd	nd	nd	nd
6/23/09	596688	20.24	nd	nd	nd	nd	nd	nd	nd	nd
6/23/09	596689	16.19	nd	nd	nd	nd	nd	nd	nd	nd
6/24/09	596691	19.58	nd	nd	nd	nd	nd	nd	nd	nd
6/23/09	596692	1.65	nd	nd	nd	nd	nd	nd	nd	nd
6/23/09	596693	2.89	nd	nd	nd	nd	nd	nd	nd	nd

No mdl is available for summed combinations of analytes. In summed columns (eg., BTEX), the reported values should be considered ESTIMATED if any of the individual compounds were reported as bdl.

GORE(TM) SURVEYS ANALYTICAL RESULTS
RMT INC, GREENVILLE, SC
GORE CHLORINATED HYDROCARBONS (A10)
SCHLUMBERGER REMED, PICKENS, SC
SITE EXE - PRODUCTION ORDER #14105381

DATE ANALYZED	SAMPLE NAME	TPH, ug	CIBENZ, ug	ct12DCE, ug	t12DCE, ug	c12DCE, ug	11DCA, ug	CHCl3, ug	111TCA, ug	12DCA, ug
	MDL=	0.02	0.01		0.03	0.01	0.01	0.01	0.01	0.01
6/23/09	596694	10.78	nd	nd	nd	nd	nd	nd	nd	nd
6/23/09	596695	12.80	nd	nd	nd	nd	nd	nd	0.03	nd
6/24/09	596696	3.09	nd	nd	nd	nd	nd	nd	nd	nd
6/24/09	596698	10.93	nd	nd	nd	nd	nd	nd	nd	nd
6/23/09	596699	17.71	nd	nd	nd	nd	nd	nd	nd	nd
6/23/09	596700	15.92	nd	nd	nd	nd	nd	nd	nd	nd
6/23/09	596701	2.67	nd	nd	nd	nd	nd	nd	nd	nd
6/24/09	596702	8.97	nd	nd	nd	nd	nd	nd	nd	nd
6/24/09	596703	4.28	nd	nd	nd	nd	nd	nd	nd	nd
6/23/09	596704	9.53	nd	nd	nd	nd	nd	nd	0.02	nd
6/23/09	596705	7.70	nd	nd	nd	nd	nd	nd	0.01	nd
6/24/09	596706	2.58	nd	nd	nd	nd	nd	nd	nd	nd
6/23/09	596707	3.37	nd	nd	nd	nd	nd	nd	nd	nd
6/23/09	596708	5.52	nd	nd	nd	nd	nd	nd	nd	nd
6/24/09	596709	4.73	nd	nd	nd	nd	nd	nd	nd	nd
6/23/09	596710	5.30	nd	nd	nd	nd	nd	nd	nd	nd
6/24/09	596711	2.89	nd	nd	nd	nd	nd	nd	nd	nd
6/23/09	596712	11.65	nd	nd	nd	nd	nd	0.02	nd	nd
6/24/09	596713	3.72	nd	0.02	nd	0.02	nd	nd	nd	nd
6/22/09	596714	10.73	nd	nd	nd	nd	nd	nd	nd	nd
6/23/09	596715	2.75	nd	nd	nd	nd	nd	nd	nd	nd
6/24/09	596716	4.47	nd	nd	nd	nd	nd	nd	nd	nd
6/24/09	596717	6.20	nd	nd	nd	nd	nd	nd	nd	nd
6/22/09	596718	263.98	nd	nd	nd	nd	nd	nd	nd	nd
6/23/09	596719	31.42	nd	nd	nd	nd	nd	0.02	nd	nd
6/24/09	596720	12.20	nd	nd	nd	nd	nd	nd	nd	nd
6/23/09	596721	19.84	nd	nd	nd	nd	nd	nd	nd	nd
6/23/09	596722	3.13	nd	nd	nd	nd	nd	nd	nd	nd
6/23/09	596723	4.02	nd	nd	nd	nd	nd	nd	nd	nd
6/23/09	596724	2.74	nd	nd	nd	nd	nd	0.13	nd	nd
6/22/09	596725	11.59	nd	nd	nd	nd	nd	nd	nd	nd

No mdl is available for summed combinations of analytes. In summed columns (eg., BTEX), the reported values should be considered ESTIMATED if any of the individual compounds were reported as bdl.

GORE(TM) SURVEYS ANALYTICAL RESULTS
RMT INC, GREENVILLE, SC
GORE CHLORINATED HYDROCARBONS (A10)
SCHLUMBERGER REMED, PICKENS, SC
SITE EXE - PRODUCTION ORDER #14105381

DATE ANALYZED	SAMPLE NAME	TPH, ug	CIBENZ, ug	ct12DCE, ug	t12DCE, ug	c12DCE, ug	11DCA, ug	CHCl3, ug	111TCA, ug	12DCA, ug
	MDL=	0.02	0.01		0.03	0.01	0.01	0.01	0.01	0.01
6/23/09	596726	12.74	nd	nd	nd	nd	nd	nd	nd	nd
6/22/09	596727	8.07	nd	nd	nd	nd	nd	nd	nd	nd
6/22/09	596764	3.35	nd	nd	nd	nd	nd	nd	nd	nd
6/23/09	596765	0.18	nd	nd	nd	nd	nd	nd	nd	nd
6/22/09	596766	2.82	nd	nd	nd	nd	nd	nd	nd	nd
6/23/09	596767	1.75	nd	nd	nd	nd	nd	nd	nd	nd
6/23/09	596768	0.81	nd	nd	nd	nd	nd	nd	nd	nd
6/24/09	596772	0.10	nd	nd	nd	nd	nd	nd	nd	nd
6/23/09	596773	0.60	nd	nd	nd	nd	nd	nd	nd	nd
6/22/09	method blank	6.45	nd	nd	nd	nd	nd	nd	nd	nd
6/23/09	method blank	0.17	nd	nd	nd	nd	nd	nd	nd	nd
6/24/09	method blank	bdl	nd	nd	nd	nd	nd	nd	nd	nd
	Maximum	263.98	0.03	0.07	0.00	0.07	0.03	0.13	0.27	0.00
	Standard Dev.	32.62	0.00	0.01	0.00	0.01	0.00	0.02	0.03	0.00
	Mean	13.96	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00

No mdl is available for summed combinations of analytes. In summed columns (eg., BTEX), the reported values should be considered ESTIMATED if any of the individual compounds were reported as bdl.

GORE(TM) SURVEYS ANALYTICAL RESULTS
RMT INC, GREENVILLE, SC
GORE CHLORINATED HYDROCARBONS (A10)
SCHLUMBERGER REMED, PICKENS, SC
SITE EXE - PRODUCTION ORDER #14105381

SAMPLE NAME	TCE, ug	PCE, ug	14DCB, ug	CCl4, ug	112TCA, ug	1112TetCA, ug	1122TetCA, ug	13DCB, ug	12DCB, ug
MDL=	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
596661	nd	1.50	nd	nd	nd	nd	nd	nd	nd
596662	0.17	0.31	nd	nd	nd	nd	nd	nd	nd
596663	nd	15.14	nd	nd	nd	nd	nd	nd	nd
596664	0.59	3.38	nd	nd	nd	nd	nd	nd	nd
596665	nd	nd	nd	nd	nd	nd	nd	nd	nd
596667	nd	nd	nd	nd	nd	nd	nd	nd	nd
596668	nd	0.02	nd	nd	nd	nd	nd	nd	nd
596669	nd	0.05	nd	nd	nd	nd	nd	nd	nd
596670	nd	0.54	nd	nd	nd	nd	nd	nd	nd
596671	nd	0.45	nd	nd	nd	nd	nd	nd	nd
596672	nd	0.12	nd	nd	nd	nd	nd	nd	nd
596673	nd	nd	nd	nd	nd	nd	nd	nd	nd
596674	nd	nd	nd	nd	nd	nd	nd	nd	nd
596675	nd	nd	nd	nd	nd	nd	nd	nd	nd
596676	nd	nd	nd	nd	nd	nd	nd	nd	nd
596677	nd	0.02	nd	nd	nd	nd	nd	nd	nd
596678	nd	nd	nd	nd	nd	nd	nd	nd	nd
596679	nd	nd	nd	nd	nd	nd	nd	nd	nd
596680	nd	nd	nd	nd	nd	nd	nd	nd	nd
596681	nd	1.95	nd	nd	nd	nd	nd	nd	nd
596682	nd	2.45	nd	nd	nd	nd	nd	nd	nd
596683	nd	20.63	nd	nd	nd	nd	nd	nd	nd
596684	1.35	14.92	0.01	nd	nd	nd	nd	nd	0.07
596685	0.02	5.24	nd	nd	nd	nd	nd	nd	nd
596686	3.91	93.45	nd	nd	nd	nd	nd	nd	nd
596687	0.10	10.91	nd	nd	nd	nd	nd	nd	nd
596688	nd	0.12	nd	nd	nd	nd	0.02	nd	nd
596689	nd	0.09	nd	nd	nd	nd	nd	nd	nd
596691	nd	0.38	nd	nd	nd	nd	nd	nd	nd
596692	0.02	22.22	nd	nd	nd	nd	nd	nd	nd
596693	nd	40.03	nd	nd	nd	nd	nd	nd	nd

No mdl is available for summed combinations of analytes. In summed columns (eg., BTEX), the reported values should be considered ESTIMATED if any of the individual compounds were reported as bdl.

GORE(TM) SURVEYS ANALYTICAL RESULTS
RMT INC, GREENVILLE, SC
GORE CHLORINATED HYDROCARBONS (A10)
SCHLUMBERGER REMED, PICKENS, SC
SITE EXE - PRODUCTION ORDER #14105381

SAMPLE NAME	TCE, ug	PCE, ug	14DCB, ug	CCl4, ug	112TCA, ug	1112TetCA, ug	1122TetCA, ug	13DCB, ug	12DCB, ug
MDL=	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
596694	nd	145.90	nd	nd	nd	nd	nd	nd	nd
596695	nd	0.84	nd	nd	nd	nd	nd	nd	nd
596696	nd	2.17	nd	nd	nd	nd	nd	nd	nd
596698	nd	1.64	nd	nd	nd	nd	nd	nd	nd
596699	nd	5.16	nd	nd	nd	nd	nd	nd	nd
596700	nd	22.36	nd	nd	nd	nd	nd	nd	nd
596701	nd	1.77	nd	nd	nd	nd	nd	nd	nd
596702	nd	0.25	0.01	nd	nd	nd	nd	nd	nd
596703	nd	0.64	nd	nd	nd	nd	nd	nd	nd
596704	0.05	18.16	nd	nd	nd	nd	nd	nd	nd
596705	nd	17.81	nd	nd	nd	nd	nd	nd	nd
596706	0.03	2.49	nd	nd	nd	nd	nd	nd	nd
596707	nd	2.58	nd	nd	nd	nd	nd	nd	nd
596708	nd	2.93	nd	nd	nd	nd	nd	nd	nd
596709	nd	0.85	nd	nd	nd	nd	nd	nd	nd
596710	nd	0.34	nd	nd	nd	nd	nd	nd	nd
596711	nd	1.64	nd	nd	nd	nd	nd	nd	nd
596712	nd	1.27	nd	nd	nd	nd	nd	nd	nd
596713	nd	17.81	0.01	nd	nd	nd	nd	nd	0.02
596714	nd	9.69	nd	nd	nd	nd	nd	nd	nd
596715	nd	0.16	nd	nd	nd	nd	nd	nd	nd
596716	nd	0.07	nd	nd	nd	nd	nd	nd	nd
596717	nd	nd	nd	nd	nd	nd	nd	nd	nd
596718	nd	nd	nd	nd	nd	nd	nd	nd	nd
596719	nd	0.04	nd	nd	nd	nd	nd	nd	nd
596720	nd	0.10	nd	nd	nd	nd	nd	nd	nd
596721	nd	0.27	nd	nd	nd	nd	nd	nd	nd
596722	nd	1.10	nd	nd	nd	nd	nd	nd	nd
596723	nd	0.98	nd	nd	nd	nd	nd	nd	nd
596724	nd	8.79	nd	nd	nd	nd	nd	nd	nd
596725	nd	5.71	nd	nd	nd	nd	nd	nd	nd

No mdl is available for summed combinations of analytes. In summed columns (eg., BTEX), the reported values should be considered ESTIMATED if any of the individual compounds were reported as bdl.

GORE(TM) SURVEYS ANALYTICAL RESULTS
RMT INC, GREENVILLE, SC
GORE CHLORINATED HYDROCARBONS (A10)
SCHLUMBERGER REMED, PICKENS, SC
SITE EXE - PRODUCTION ORDER #14105381

SAMPLE NAME	TCE, ug	PCE, ug	14DCB, ug	CCl4, ug	112TCA, ug	1112TetCA, ug	1122TetCA, ug	13DCB, ug	12DCB, ug
MDL=	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
596726	nd	3.36	nd	nd	nd	nd	nd	nd	nd
596727	nd	0.28	nd	nd	nd	nd	nd	nd	nd
596764	nd	nd	nd	nd	nd	nd	nd	nd	nd
596765	nd	nd	nd	nd	nd	nd	nd	nd	nd
596766	nd	nd	nd	nd	nd	nd	nd	nd	nd
596767	nd	nd	nd	nd	nd	nd	nd	nd	nd
596768	nd	nd	nd	nd	nd	nd	nd	nd	nd
596772	nd	nd	nd	nd	nd	nd	nd	nd	nd
596773	nd	nd	nd	nd	nd	nd	nd	nd	nd
method blank	nd	nd	nd	nd	nd	nd	nd	nd	nd
method blank	nd	nd	nd	nd	nd	nd	nd	nd	nd
method blank	nd	0.01	nd	nd	nd	nd	nd	nd	nd
Maximum	3.91	145.90	0.01	0.00	0.00	0.00	0.02	0.00	0.07
Standard Dev.	0.52	22.12	0.00	0.00	0.00	0.00	0.00	0.00	0.01
Mean	0.10	7.99	0.00	0.00	0.00	0.00	0.00	0.00	0.00

No mdl is available for summed combinations of analytes. In summed columns (eg., BTEX), the reported values should be considered ESTIMATED if any of the individual compounds were reported as bdl.

GORE(TM) SURVEYS ANALYTICAL RESULTS
RMT INC, GREENVILLE, SC
GORE CHLORINATED HYDROCARBONS (A10)
SCHLUMBERGER REMED, SUPPORT ACTIVITIES
SITE EXG - PRODUCTION ORDER #14105381

DATE ANALYZED	SAMPLE NAME	TPH, ug	CIBENZ, ug	ct12DCE, ug	t12DCE, ug	c12DCE, ug	11DCA, ug	CHCl3, ug	111TCA, ug	12DCA, ug	TCE, ug
	MDL=	0.02	0.01		0.03	0.01	0.01	0.01	0.01	0.01	0.01
6/26/09	596728	523.91	nd	nd	nd	nd	nd	nd	nd	nd	nd
6/26/09	596729	51.48	nd	nd	nd	nd	nd	nd	nd	nd	nd
6/25/09	596730	36.33	nd	nd	nd	nd	nd	nd	nd	nd	0.02
6/26/09	596731	3.05	nd	nd	nd	nd	nd	nd	nd	nd	nd
6/26/09	596732	6.36	nd	nd	nd	nd	nd	nd	nd	nd	nd
6/26/09	596733	2.33	nd	nd	nd	nd	nd	nd	nd	nd	nd
6/25/09	596734	13.89	nd	nd	nd	nd	nd	nd	nd	nd	nd
6/25/09	596735	3.86	nd	nd	nd	nd	nd	nd	nd	nd	0.12
6/25/09	596736	28.25	nd	nd	nd	nd	nd	nd	nd	nd	nd
6/26/09	596737	4.01	nd	nd	nd	nd	nd	nd	nd	nd	nd
6/26/09	596738	3.53	nd	nd	nd	nd	nd	nd	nd	nd	nd
6/25/09	596739	2.21	nd	nd	nd	nd	nd	nd	nd	nd	nd
6/26/09	596740	5.21	nd	nd	nd	nd	nd	nd	nd	nd	nd
6/26/09	596741	3.75	0.08	nd	nd	nd	nd	nd	nd	nd	0.39
6/26/09	596742	4.34	nd	nd	nd	nd	nd	nd	nd	nd	nd
6/26/09	596743	56.48	nd	nd	nd	nd	nd	nd	nd	nd	nd
6/25/09	596744	6.42	nd	nd	nd	nd	nd	nd	nd	nd	nd
6/25/09	596745	15.12	nd	nd	nd	nd	nd	nd	nd	nd	nd
6/25/09	596746	2.65	nd	nd	nd	nd	nd	nd	nd	nd	nd
6/25/09	596747	16.11	nd	nd	nd	nd	nd	nd	nd	nd	0.63
6/26/09	596748	0.92	nd	nd	nd	nd	nd	nd	nd	nd	2.41
6/26/09	596749	2.78	nd	nd	nd	nd	nd	nd	nd	nd	nd
6/25/09	596750	59.03	nd	nd	nd	nd	nd	nd	nd	nd	nd
6/26/09	596751	10.06	nd	nd	nd	nd	nd	nd	nd	nd	nd
6/26/09	596752	59.19	nd	nd	nd	nd	nd	nd	nd	nd	nd
6/26/09	596753	15.24	nd	nd	nd	nd	nd	nd	nd	nd	nd
6/25/09	596754	46.67	nd	nd	nd	nd	nd	nd	nd	nd	nd
6/25/09	596755	15.56	nd	nd	nd	nd	nd	nd	nd	nd	nd
6/25/09	596756	2.10	nd	nd	nd	nd	nd	nd	nd	nd	nd
6/26/09	596757	37.74	nd	nd	nd	nd	nd	nd	nd	nd	nd
6/26/09	596758	3.93	nd	nd	nd	nd	nd	nd	nd	nd	nd

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GORE(TM) SURVEYS ANALYTICAL RESULTS
RMT INC, GREENVILLE, SC
GORE CHLORINATED HYDROCARBONS (A10)
SCHLUMBERGER REMED, SUPPORT ACTIVITIES
SITE EXG - PRODUCTION ORDER #14105381

DATE ANALYZED	SAMPLE NAME	TPH, ug	CIBENZ, ug	ct12DCE, ug	t12DCE, ug	c12DCE, ug	11DCA, ug	CHCl3, ug	111TCA, ug	12DCA, ug	TCE, ug
	MDL=	0.02	0.01		0.03	0.01	0.01	0.01	0.01	0.01	0.01
6/26/09	596759	0.76	nd	nd	nd	nd	nd	nd	nd	nd	nd
6/26/09	596760	4.26	nd	nd	nd	nd	nd	nd	nd	nd	0.03
6/26/09	596761	5.21	nd	nd	nd	nd	nd	nd	nd	nd	0.92
6/26/09	596762	1.79	nd	nd	nd	nd	nd	nd	nd	nd	nd
6/26/09	596763	0.56	nd	nd	nd	nd	nd	nd	nd	nd	nd
6/26/09	596774	0.03	nd	nd	nd	nd	nd	nd	nd	nd	nd
6/25/09	596775	0.05	nd	nd	nd	nd	nd	nd	nd	nd	0.01
6/26/09	596776	0.06	nd	nd	nd	nd	nd	nd	nd	nd	nd
6/26/09	596777	0.19	nd	nd	nd	nd	nd	nd	nd	nd	nd
6/25/09	method blank	0.02	nd	nd	nd	nd	nd	nd	nd	nd	nd
6/26/09	method blank	bdl	nd	nd	nd	nd	nd	nd	nd	nd	nd
	Maximum	523.91	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.41
	Standard Dev.	86.79	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.44
	Mean	29.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.13

No mdl is available for summed combinations of analytes. In summed columns (eg., BTEX), the reported values should be considered ESTIMATED if any of the individual compounds were reported as bdl.

GORE(TM) SURVEYS ANALYTICAL RESULTS
RMT INC, GREENVILLE, SC
GORE CHLORINATED HYDROCARBONS (A10)
SCHLUMBERGER REMED, SUPPORT ACTIVITIES
SITE EXG - PRODUCTION ORDER #14105381

SAMPLE NAME	PCE, ug	14DCB, ug	CCl4, ug	112TCA, ug	1112TetCA, ug	1122TetCA, ug	13DCB, ug	12DCB, ug
MDL=	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
596728	0.01	nd	nd	nd	nd	nd	nd	nd
596729	nd	nd	nd	nd	nd	nd	nd	nd
596730	0.11	nd	nd	nd	nd	nd	nd	nd
596731	0.94	nd	nd	nd	nd	nd	nd	nd
596732	20.36	nd	nd	nd	nd	nd	nd	nd
596733	8.99	nd	nd	nd	nd	nd	nd	nd
596734	2.18	nd	nd	nd	nd	nd	nd	nd
596735	25.07	nd	nd	nd	nd	nd	nd	nd
596736	1.36	nd	nd	nd	nd	nd	nd	nd
596737	0.04	nd	nd	nd	nd	nd	nd	nd
596738	0.64	nd	nd	nd	nd	nd	nd	nd
596739	9.48	nd	nd	nd	nd	nd	nd	nd
596740	0.21	nd	nd	nd	nd	nd	nd	nd
596741	144.66	nd	nd	nd	nd	nd	nd	0.01
596742	0.10	nd	nd	nd	nd	nd	nd	nd
596743	0.42	nd	nd	nd	nd	nd	nd	nd
596744	nd	nd	nd	nd	nd	nd	nd	nd
596745	0.01	nd	nd	nd	nd	nd	nd	nd
596746	0.05	0.04	nd	nd	nd	nd	0.01	0.25
596747	4.38	nd	nd	nd	nd	nd	nd	nd
596748	19.03	nd	nd	nd	nd	nd	nd	nd
596749	0.88	nd	nd	nd	nd	nd	nd	nd
596750	0.11	nd	nd	nd	nd	nd	nd	nd
596751	0.20	nd	nd	nd	nd	nd	nd	nd
596752	0.03	nd	nd	nd	nd	nd	nd	nd
596753	nd	nd	nd	nd	nd	nd	nd	nd
596754	nd	nd	nd	nd	nd	nd	nd	nd
596755	0.01	nd	nd	nd	nd	nd	nd	nd
596756	0.03	nd	nd	nd	nd	nd	nd	nd
596757	0.08	nd	nd	nd	nd	nd	nd	nd
596758	0.02	nd	nd	nd	nd	nd	nd	nd

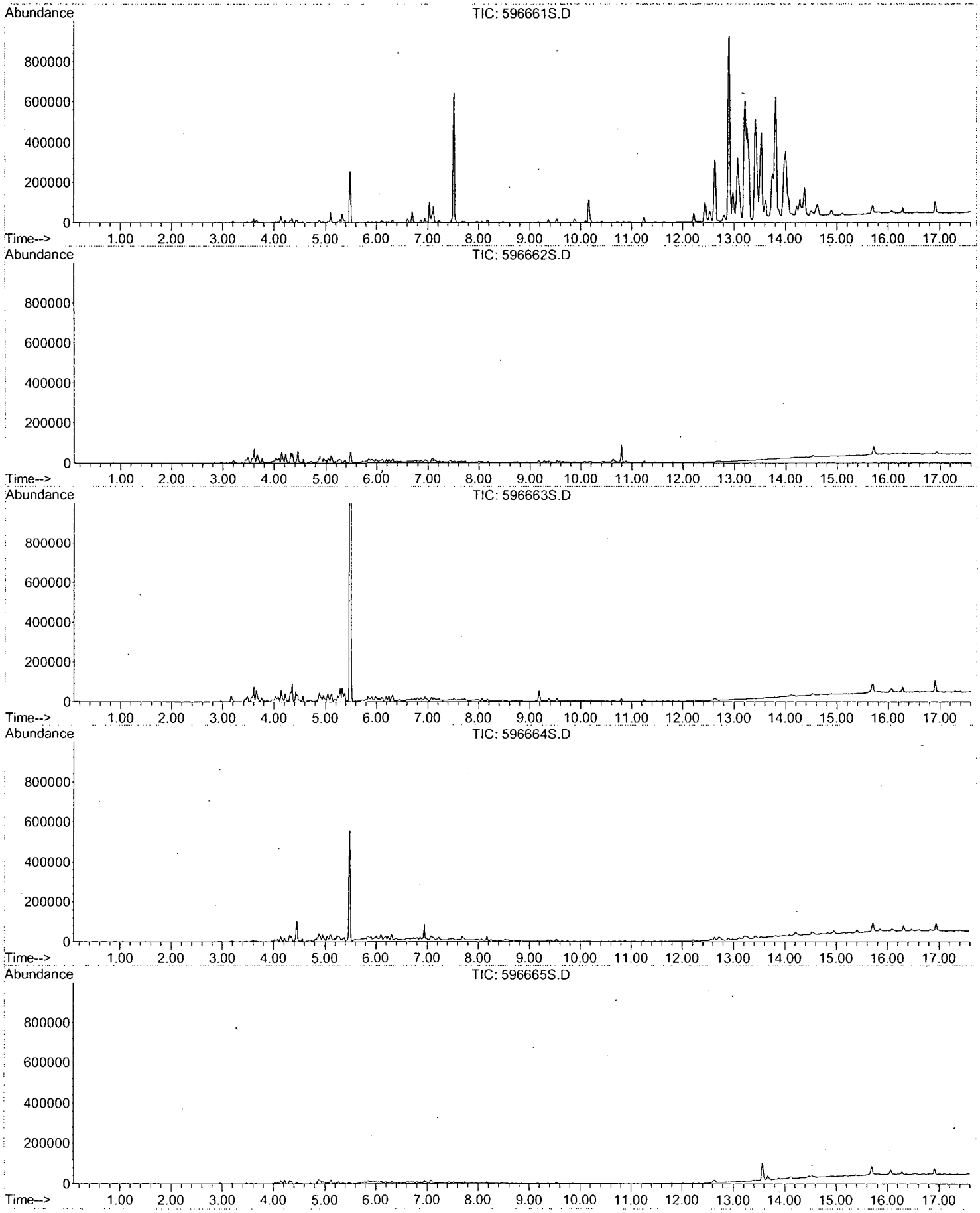
No mdl is available for summed combinations of analytes. In summed columns (eg., BTEX), the reported values should be considered ESTIMATED if any of the individual compounds were reported as bdl.

GORE(TM) SURVEYS ANALYTICAL RESULTS
RMT INC, GREENVILLE, SC
GORE CHLORINATED HYDROCARBONS (A10)
SCHLUMBERGER REMED, SUPPORT ACTIVITIES
SITE EXG - PRODUCTION ORDER #14105381

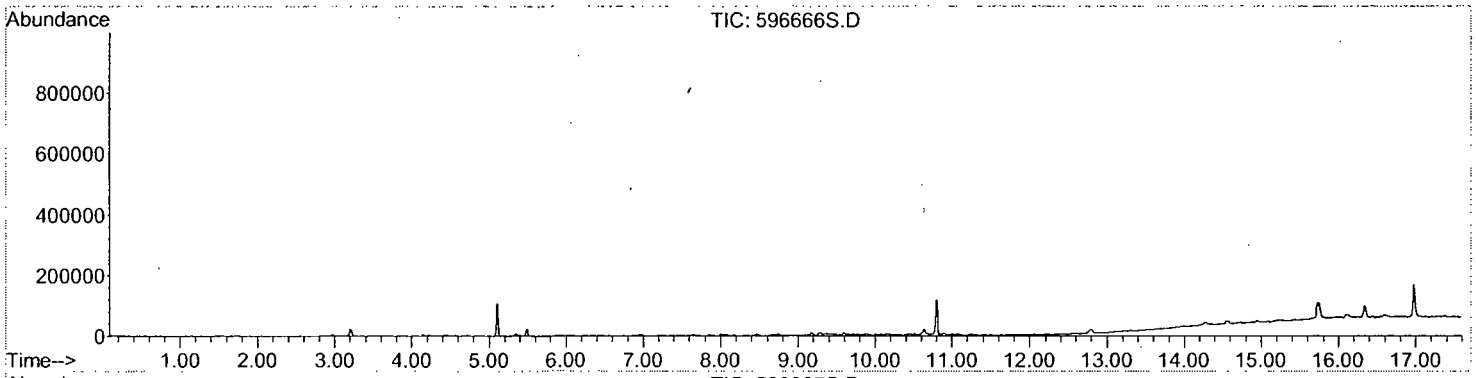
SAMPLE NAME	PCE, ug	14DCB, ug	CCl4, ug	112TCA, ug	1112TetCA, ug	1122TetCA, ug	13DCB, ug	12DCB, ug
MDL=	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
596759	2.84	nd	nd	nd	nd	nd	nd	nd
596760	1.64	nd	nd	nd	nd	nd	nd	nd
596761	7.10	nd	nd	nd	nd	nd	nd	nd
596762	0.06	nd	nd	nd	nd	nd	nd	nd
596763	0.04	nd	nd	nd	nd	nd	nd	nd
596774	nd	nd	nd	nd	nd	nd	nd	nd
596775	nd	nd	nd	nd	nd	nd	nd	nd
596776	nd	nd	nd	nd	nd	nd	nd	nd
596777	nd	nd	nd	nd	nd	nd	nd	nd
method blank	nd	nd	nd	nd	nd	nd	nd	nd
method blank	nd	nd	nd	nd	nd	nd	nd	nd
Maximum	144.66	0.04	0.00	0.00	0.00	0.00	0.01	0.25
Standard Dev.	24.40	0.01	0.00	0.00	0.00	0.00	0.00	0.04
Mean	6.97	0.00	0.00	0.00	0.00	0.00	0.00	0.01

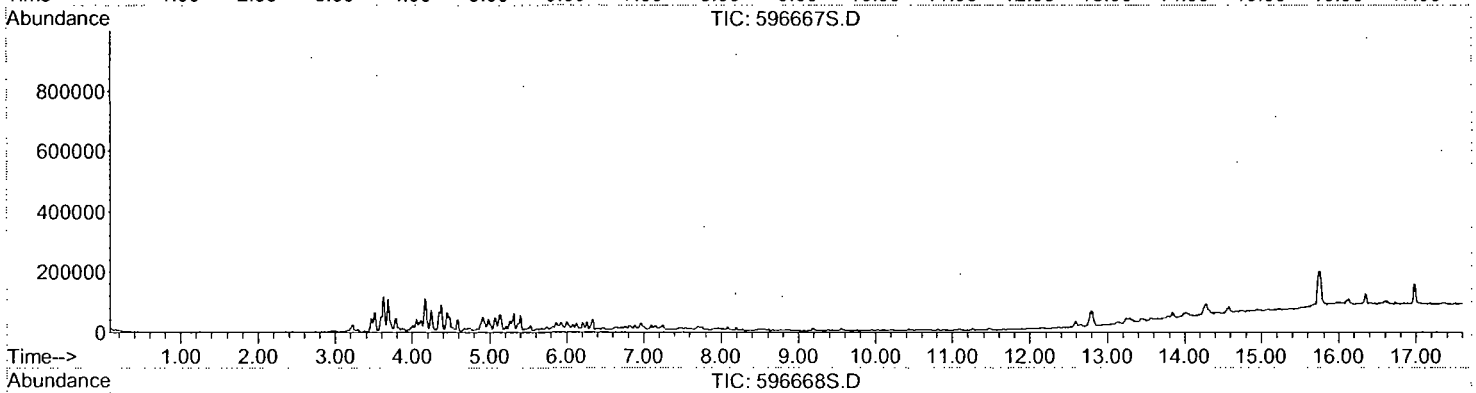
No mdl is available for summed combinations of analytes. In summed columns (eg., BTEX), the reported values should be considered ESTIMATED if any of the individual compounds were reported as bdl.

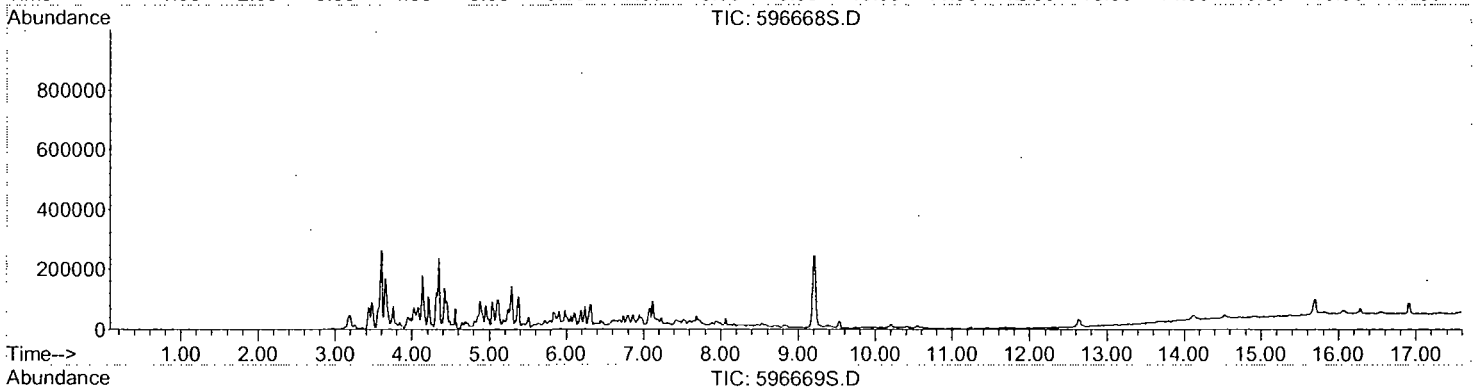
TICS - SITE EXE - PRODUCTION ORDER NUMBER: 14105381
IN NUMERICAL ORDER

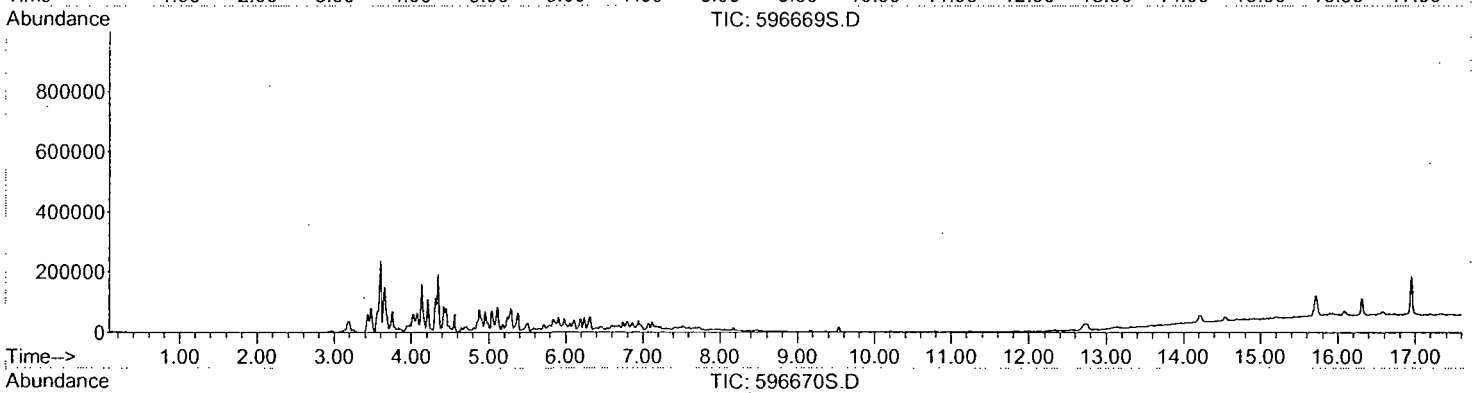


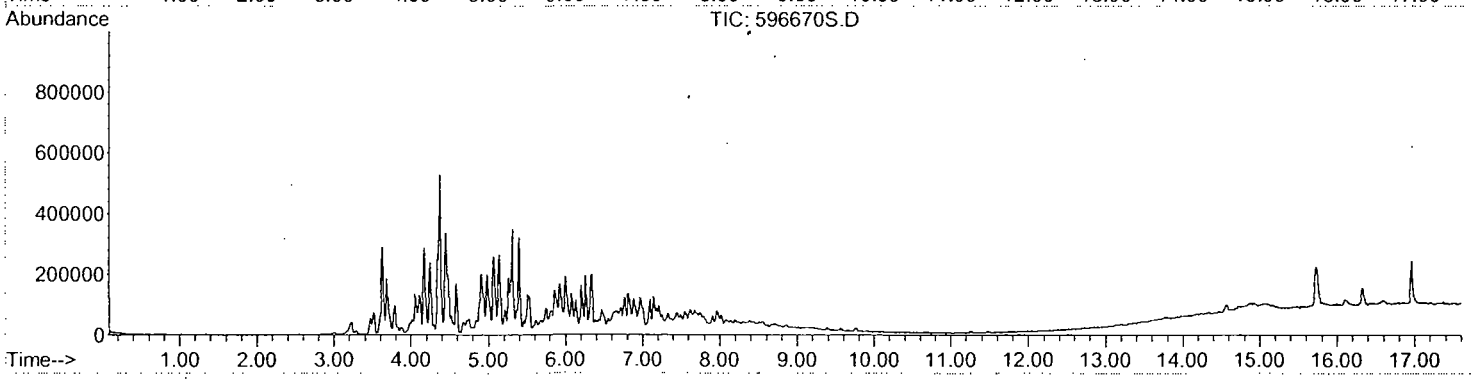
TICS - SITE EXE - PRODUCTION ORDER NUMBER: 14105381
IN NUMERICAL ORDER











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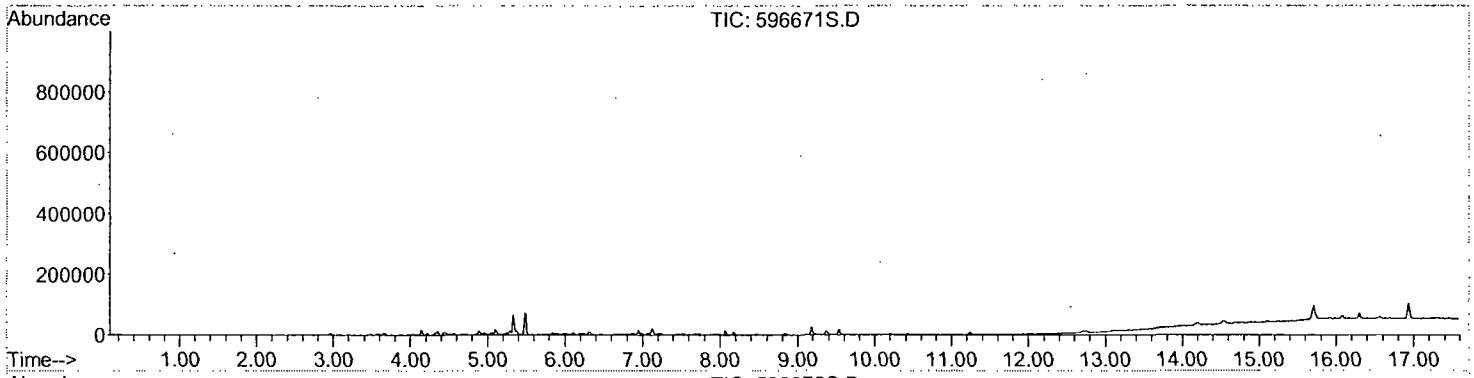
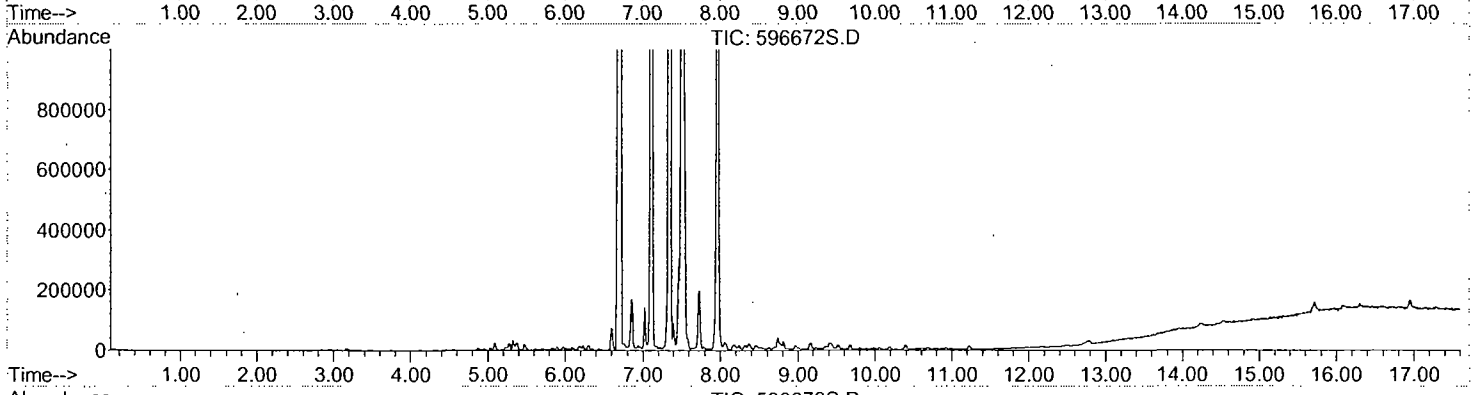
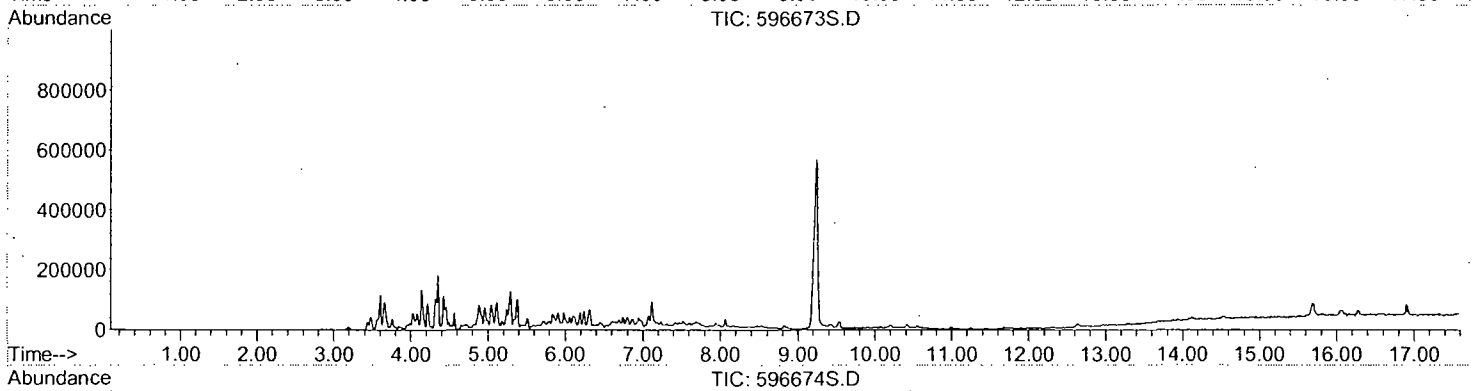
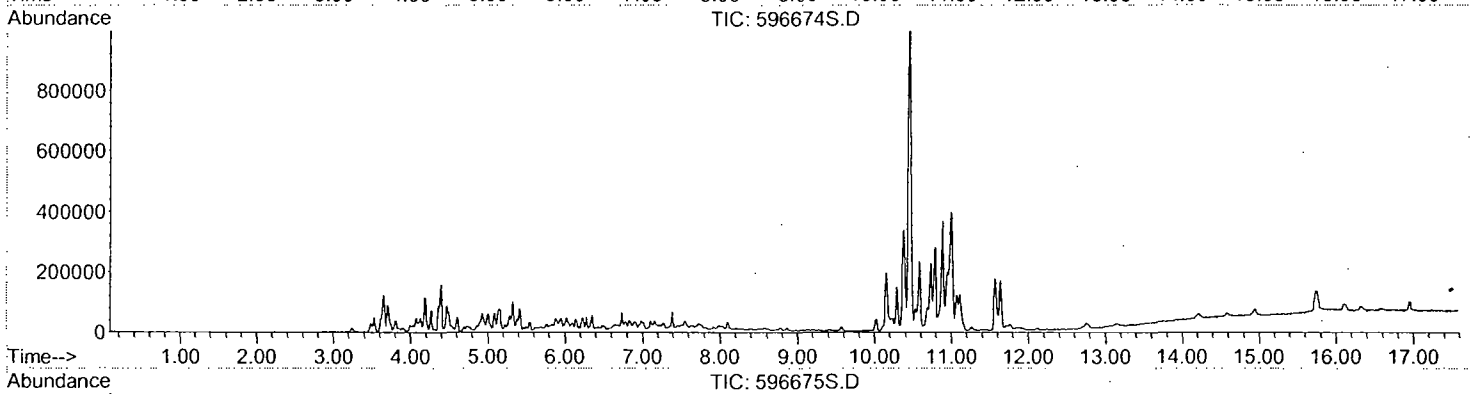
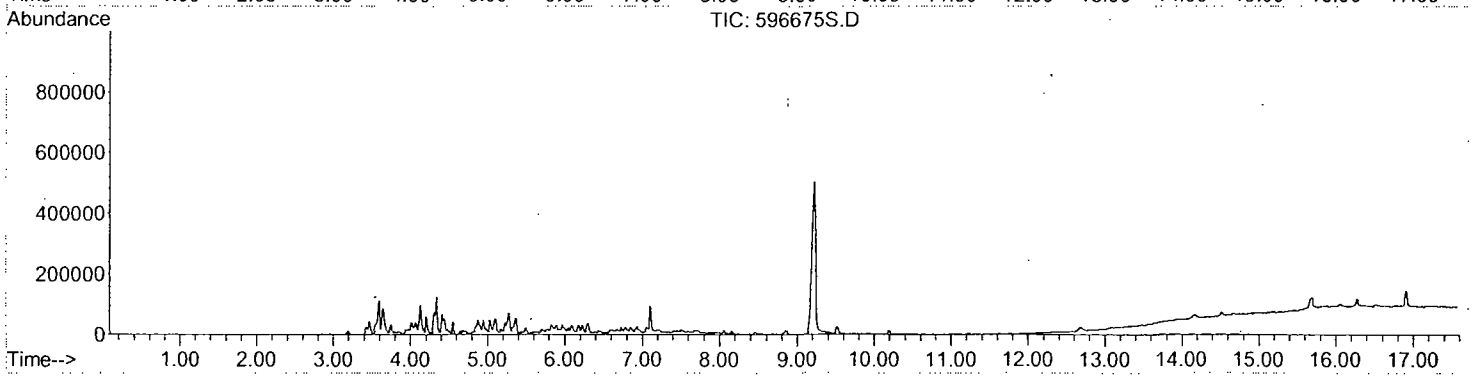
IN NUMERICAL ORDER











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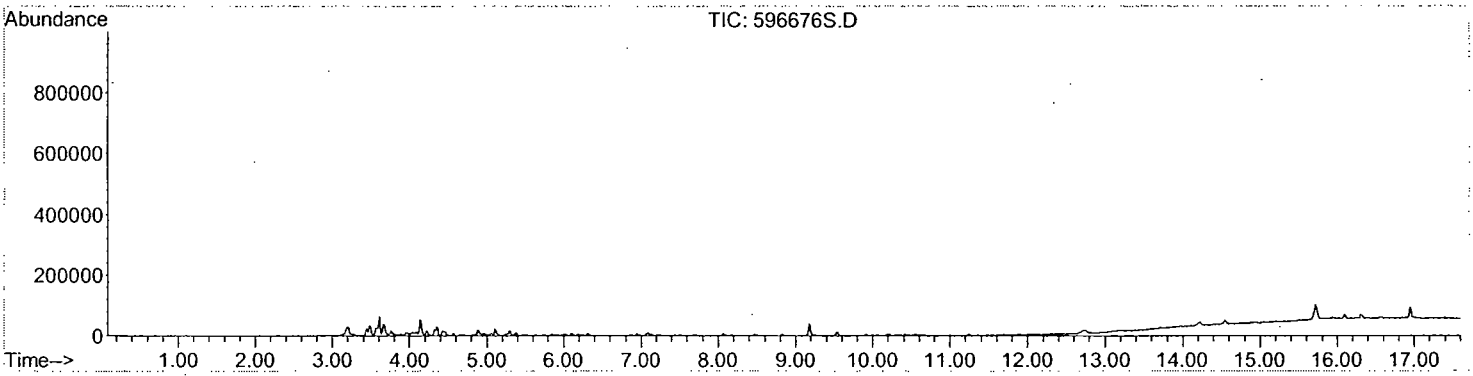
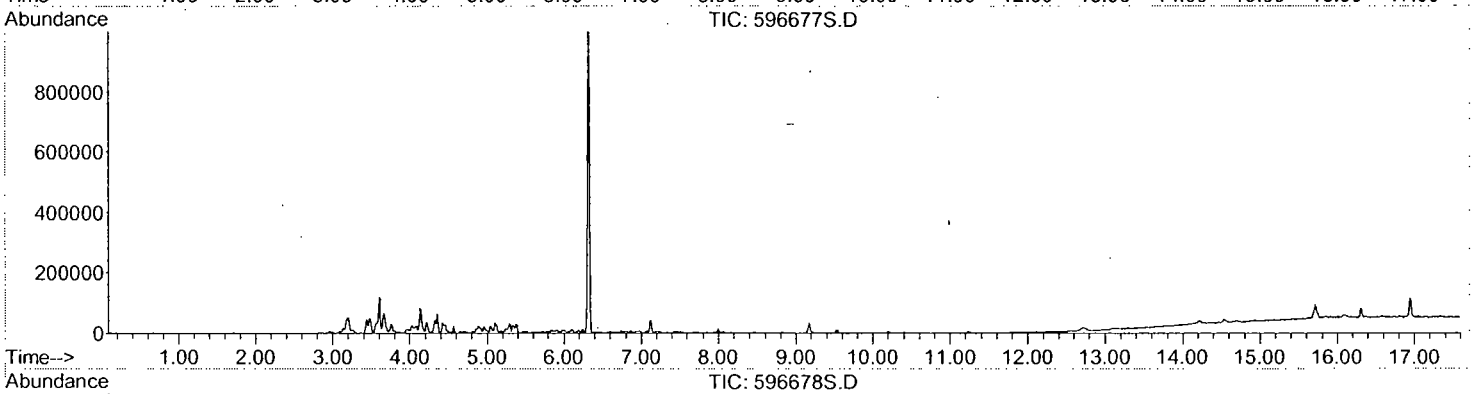
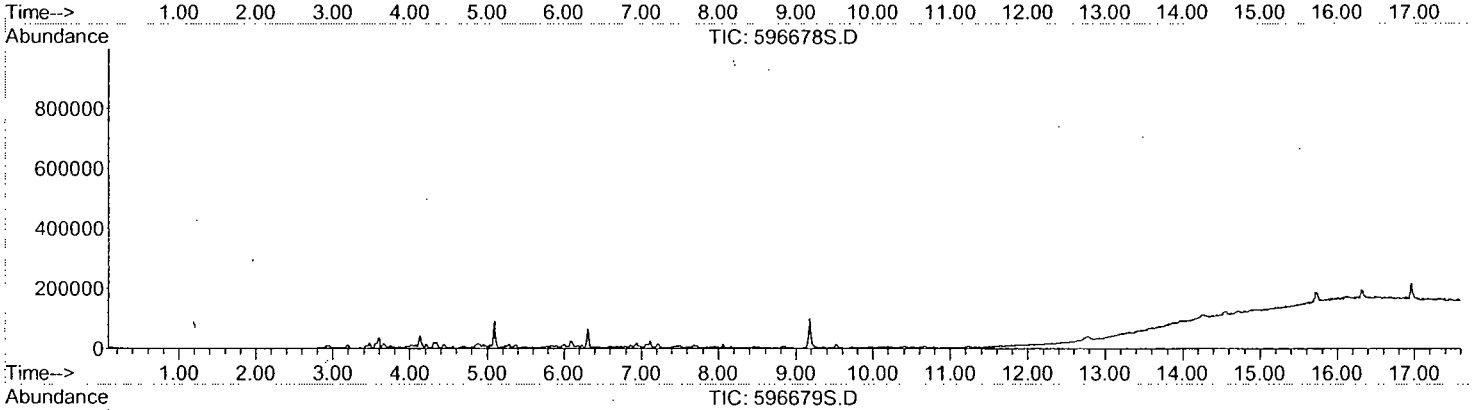
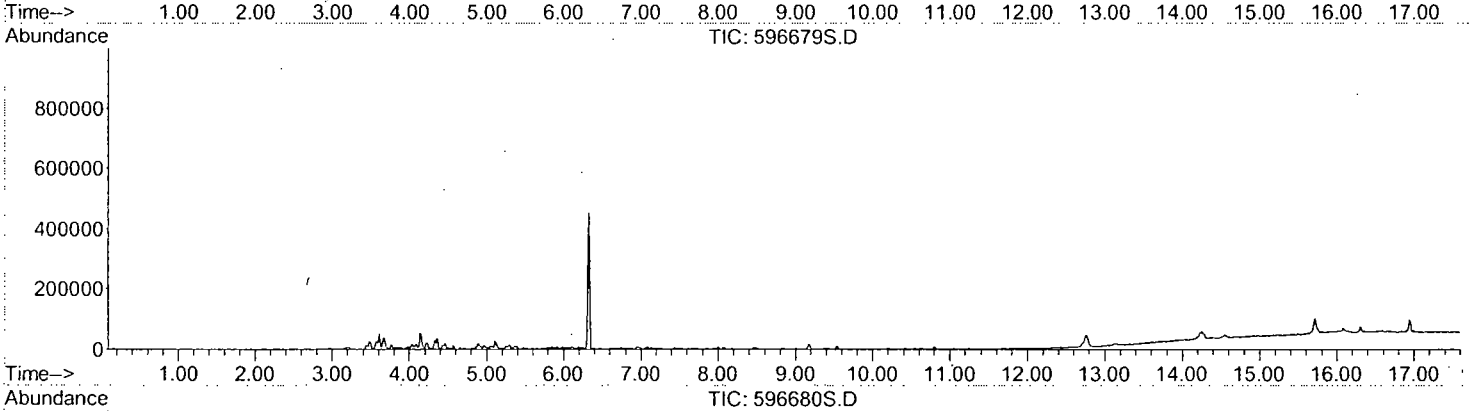
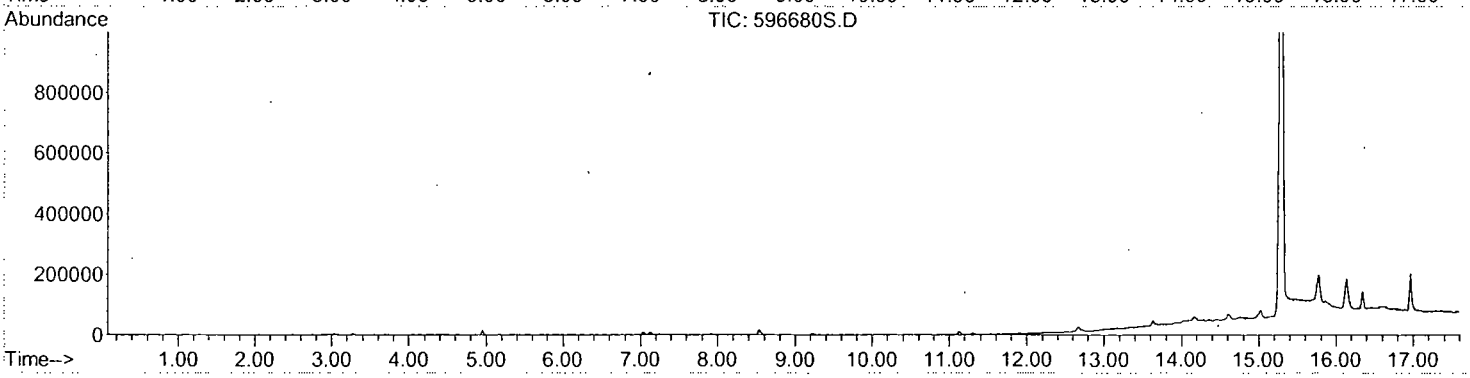


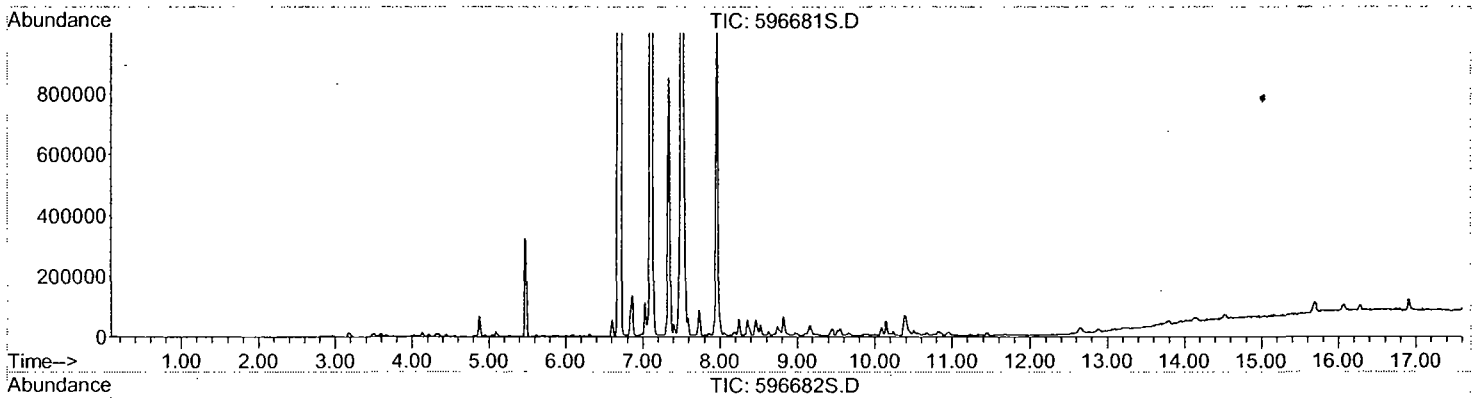


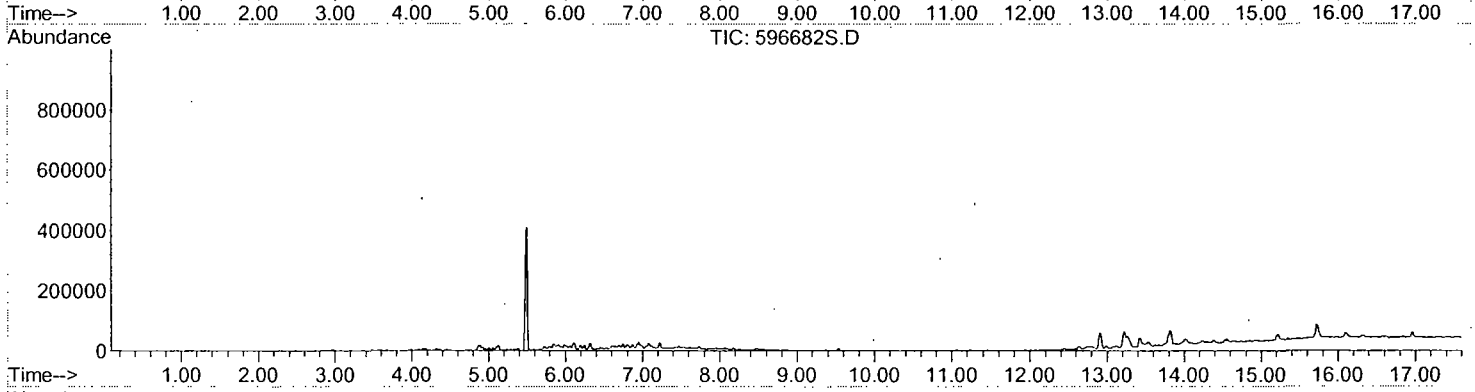


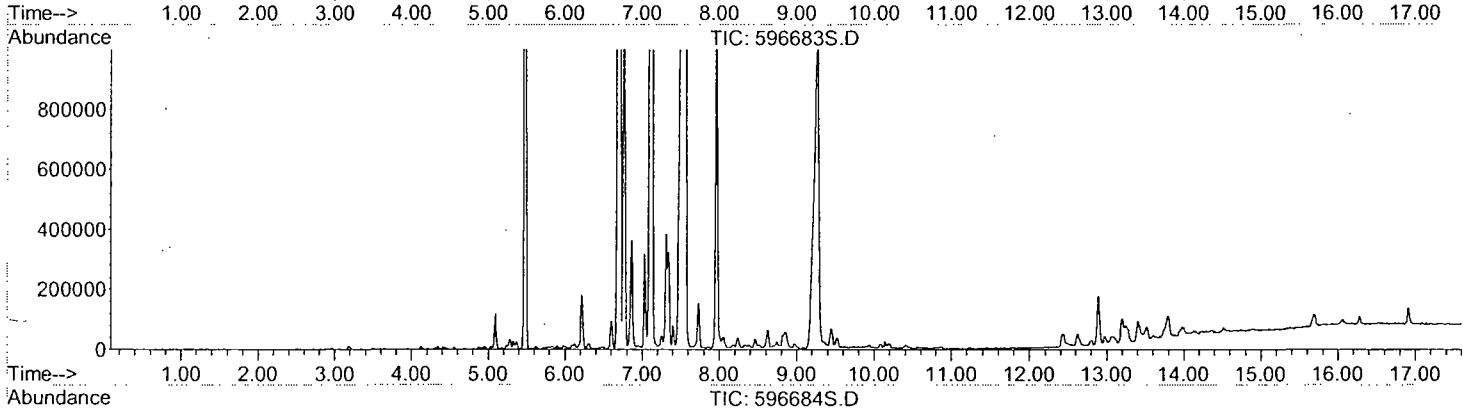


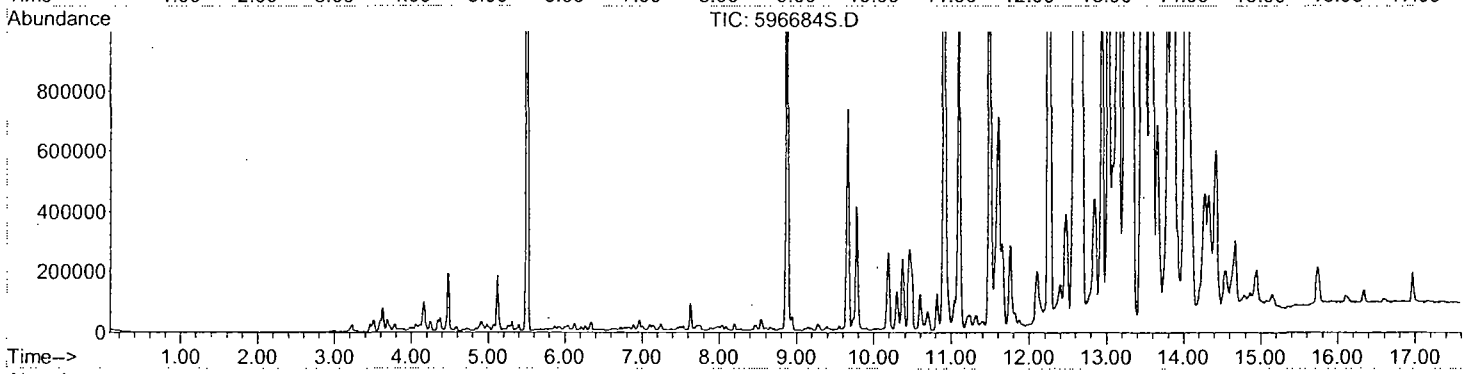


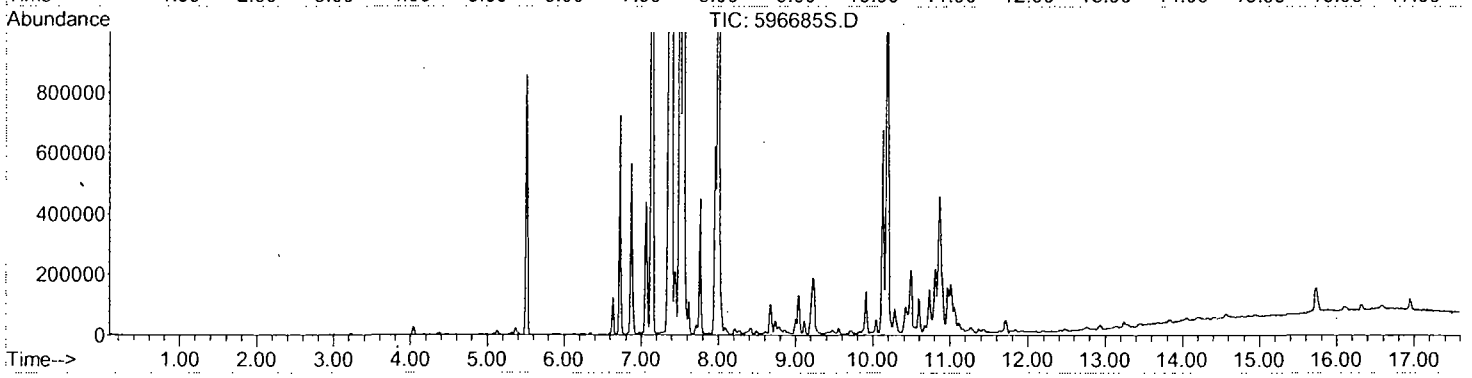
TICS - SITE EXE - PRODUCTION ORDER NUMBER: 14105381
IN NUMERICAL ORDER



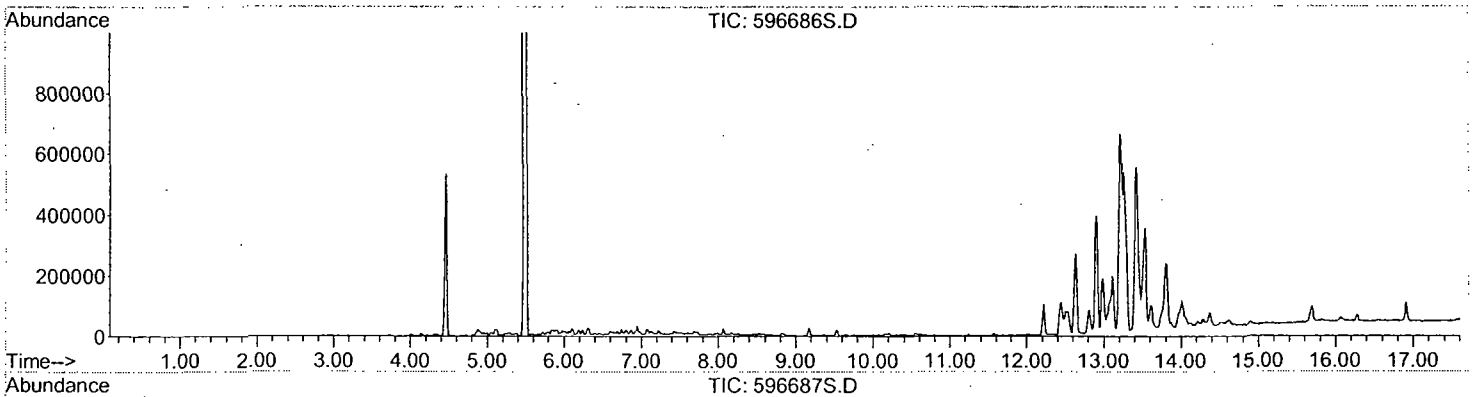


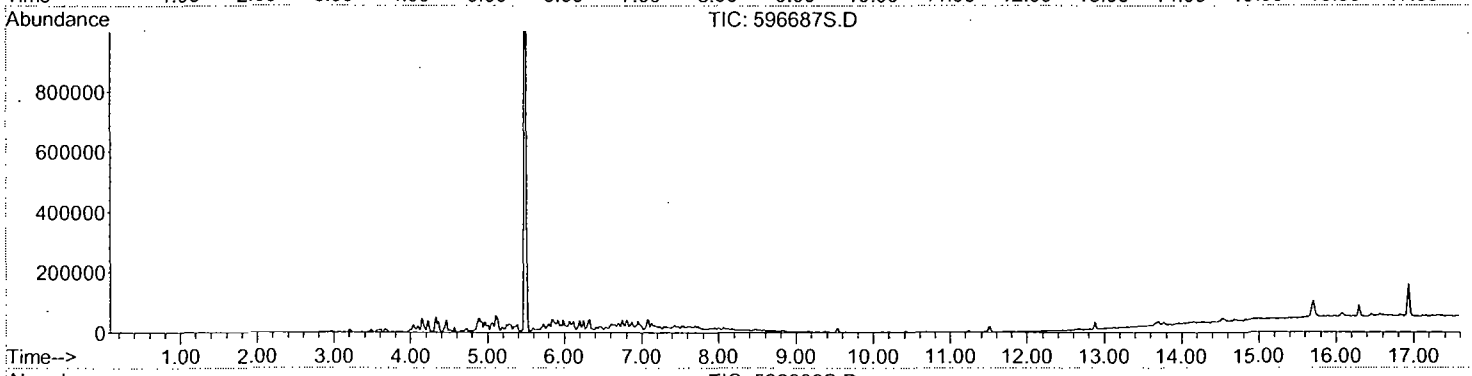


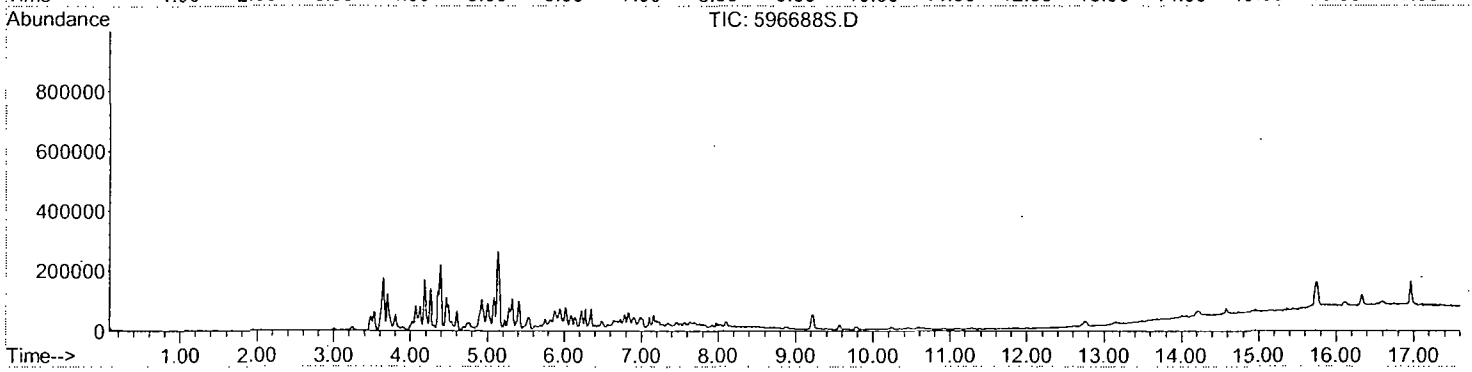


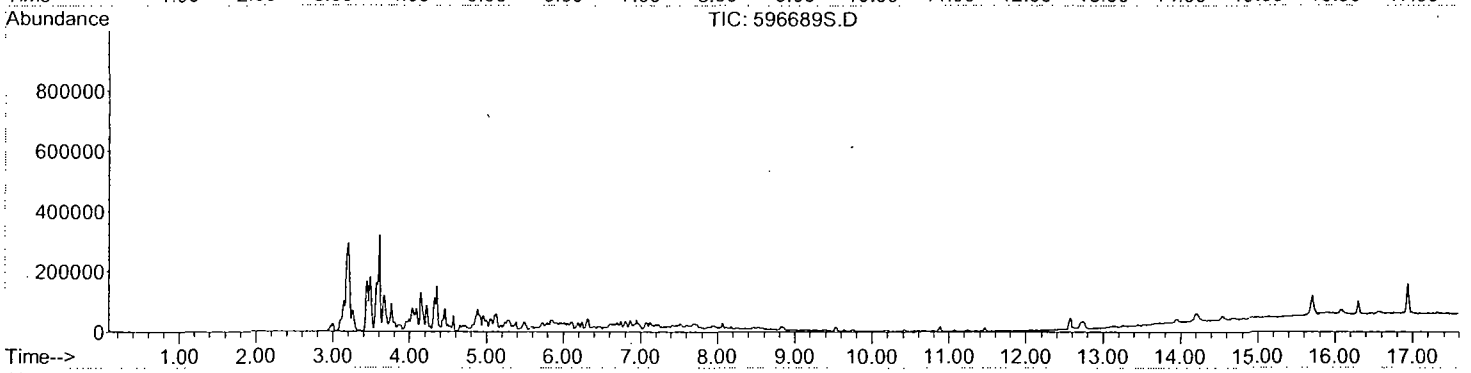


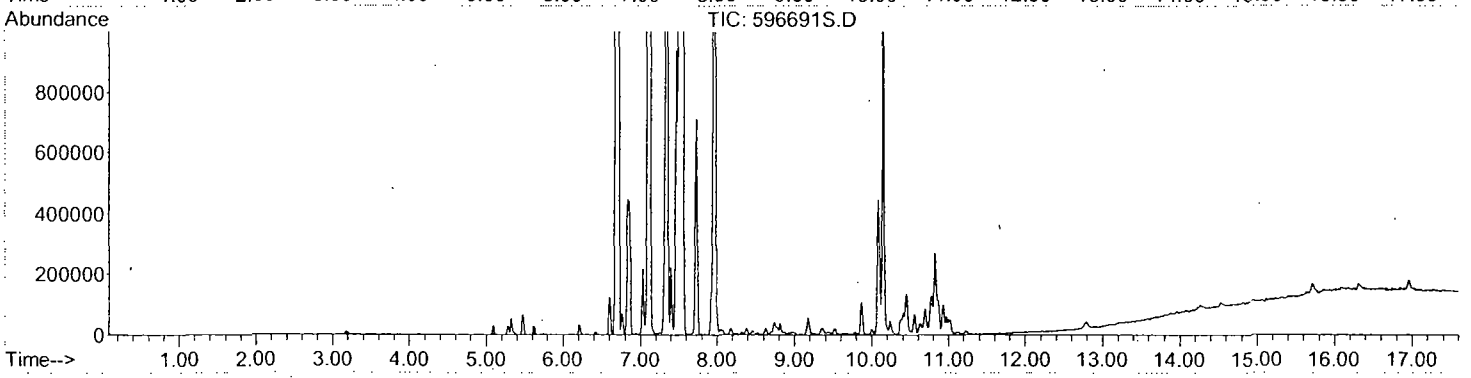
TICS - SITE EXE - PRODUCTION ORDER NUMBER: 14105381
IN NUMERICAL ORDER



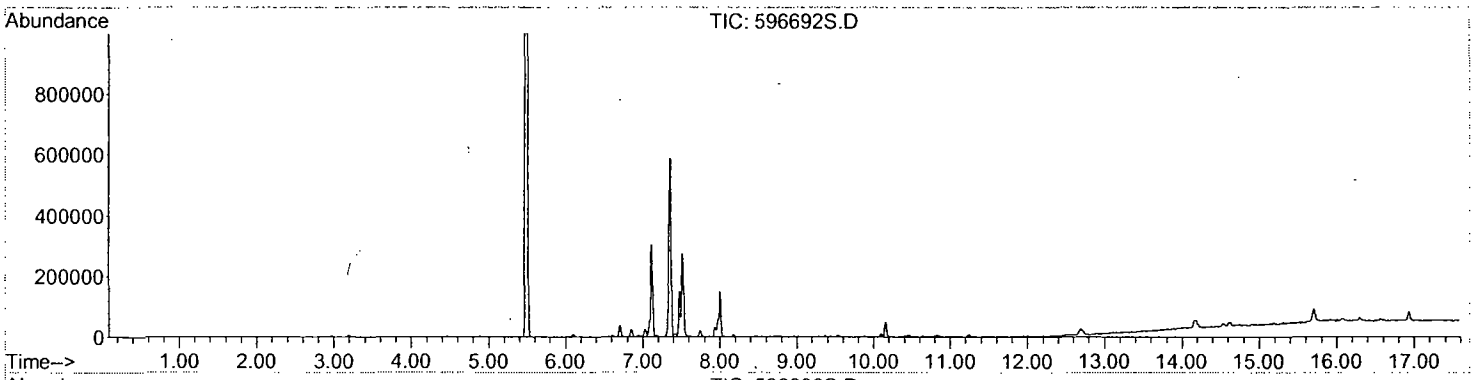


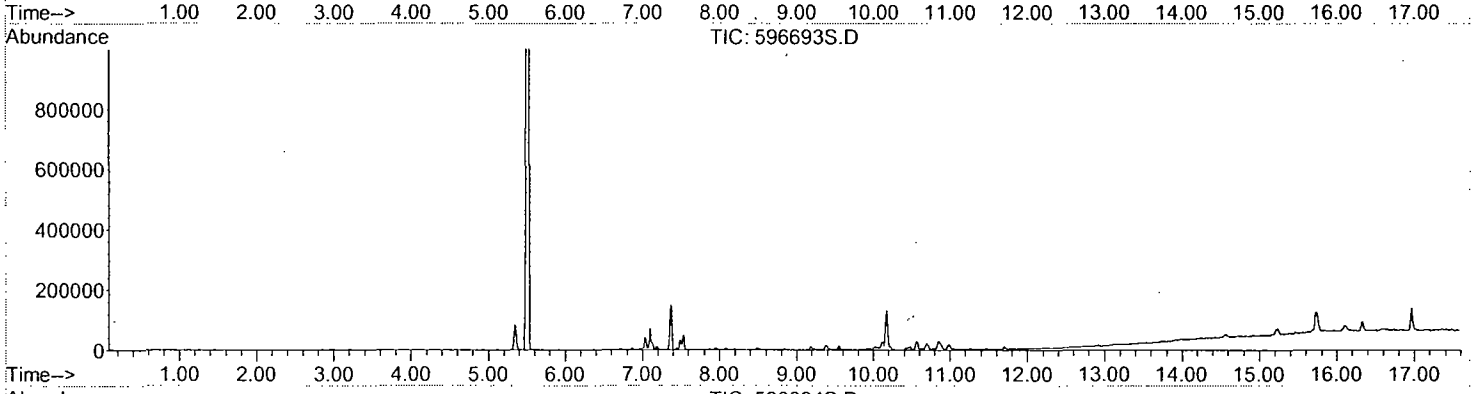


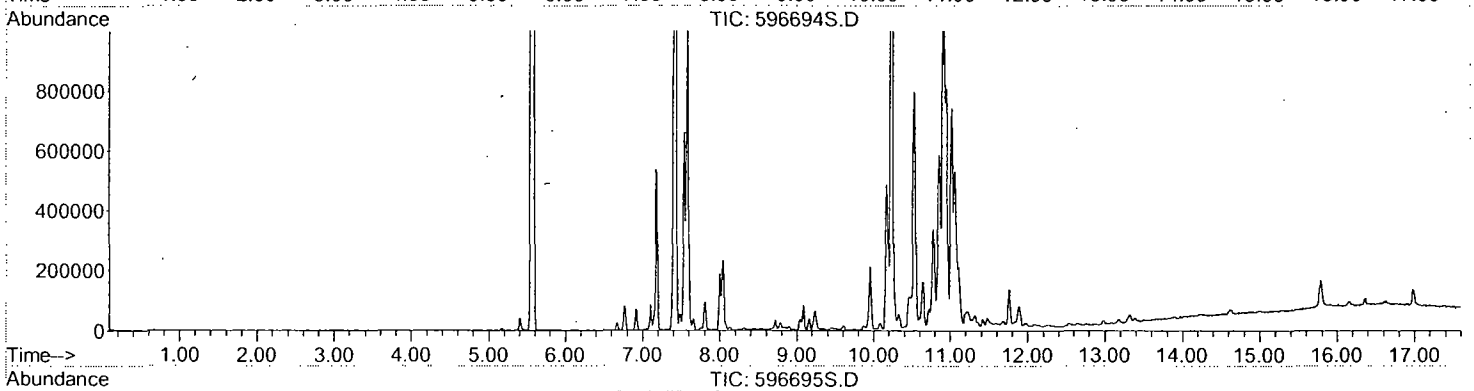


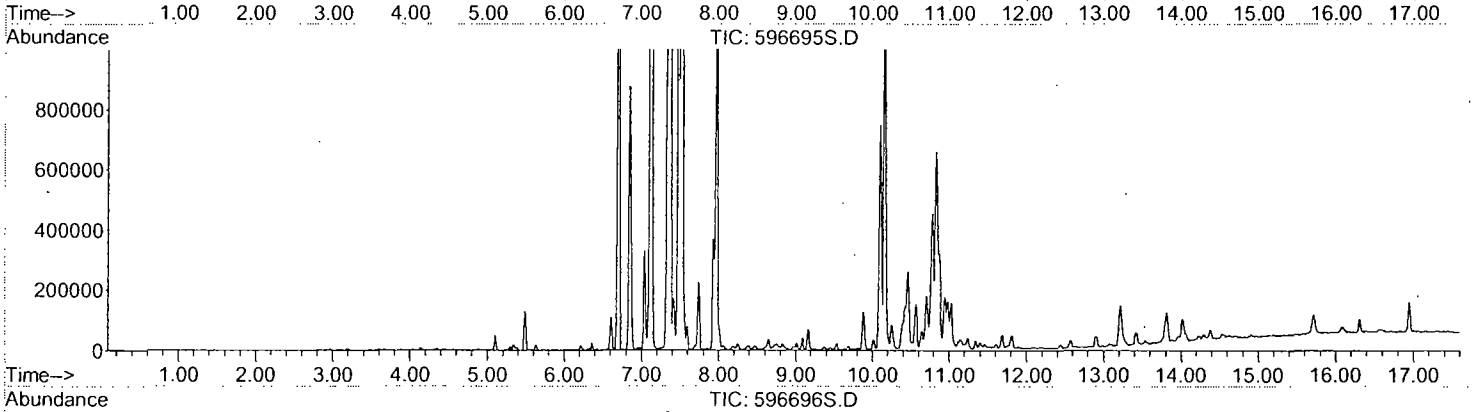


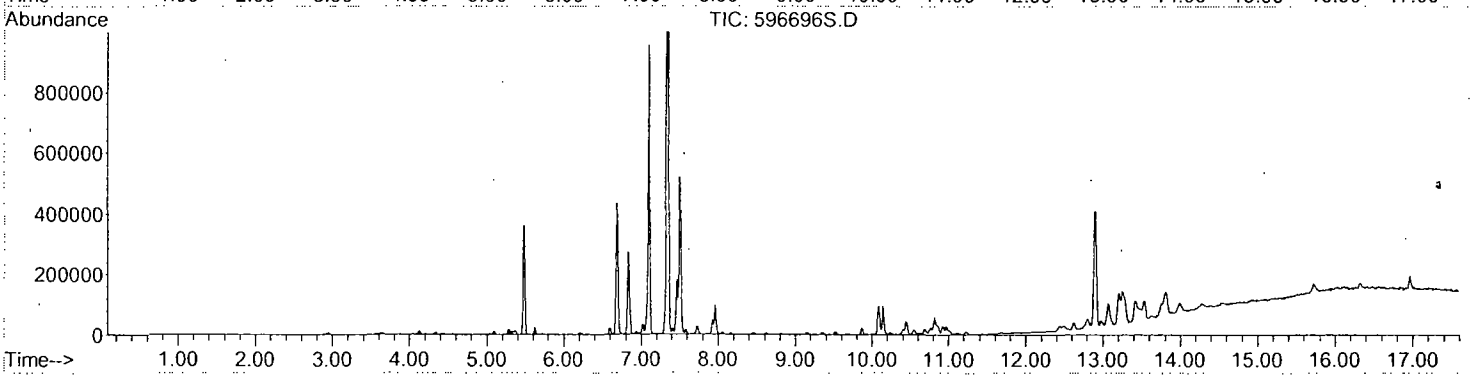
TICS - SITE EXE - PRODUCTION ORDER NUMBER: 14105381
IN NUMERICAL ORDER



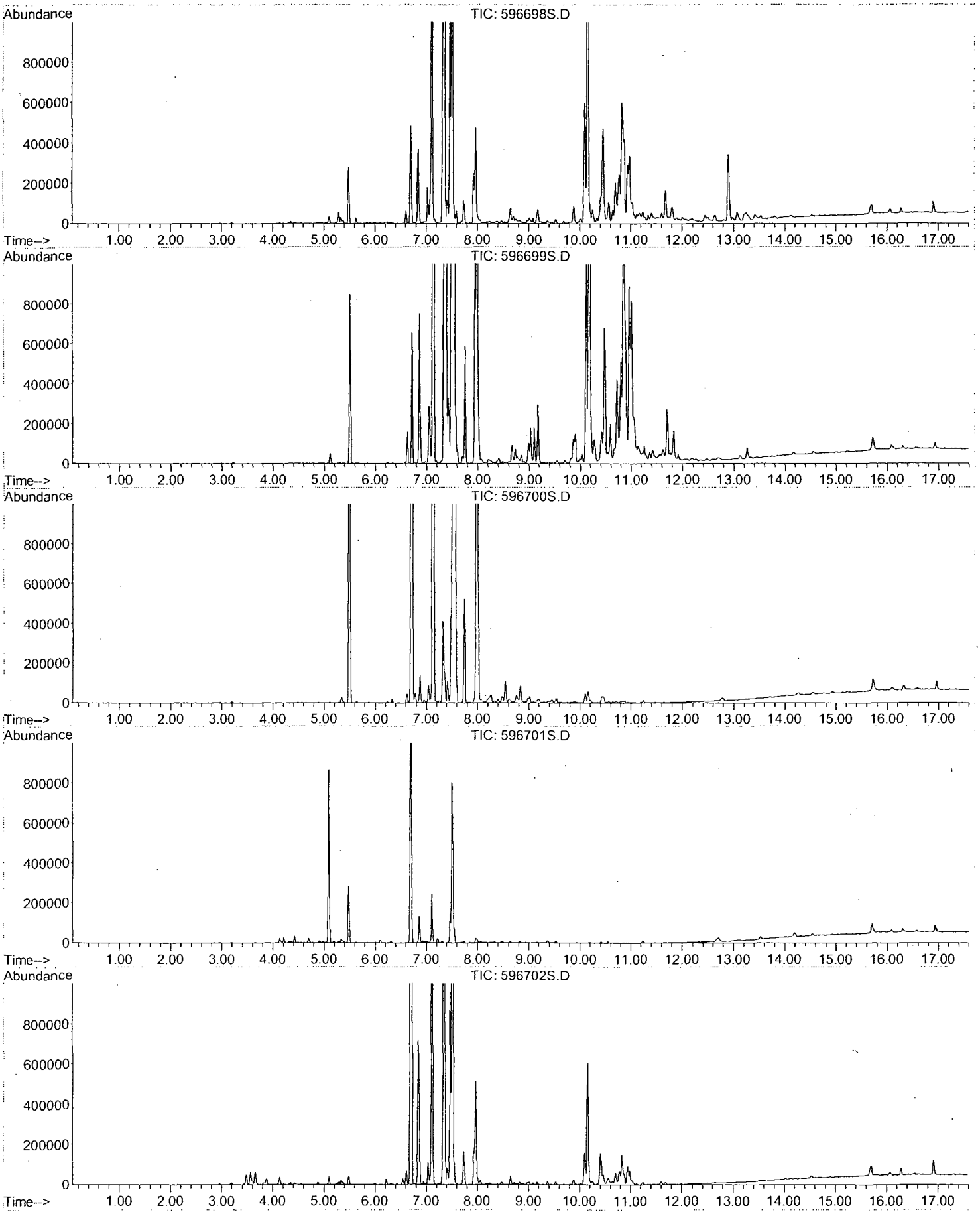




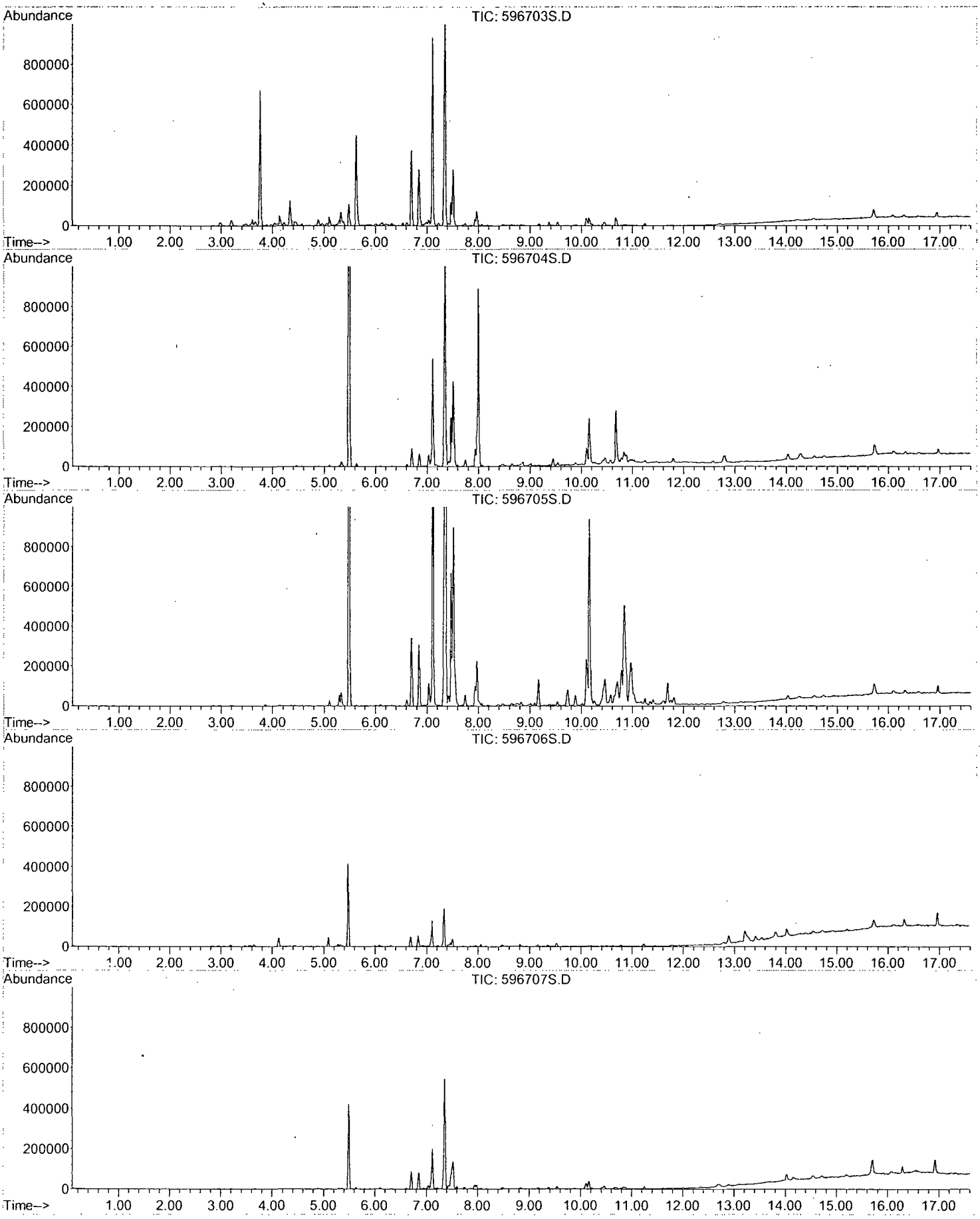




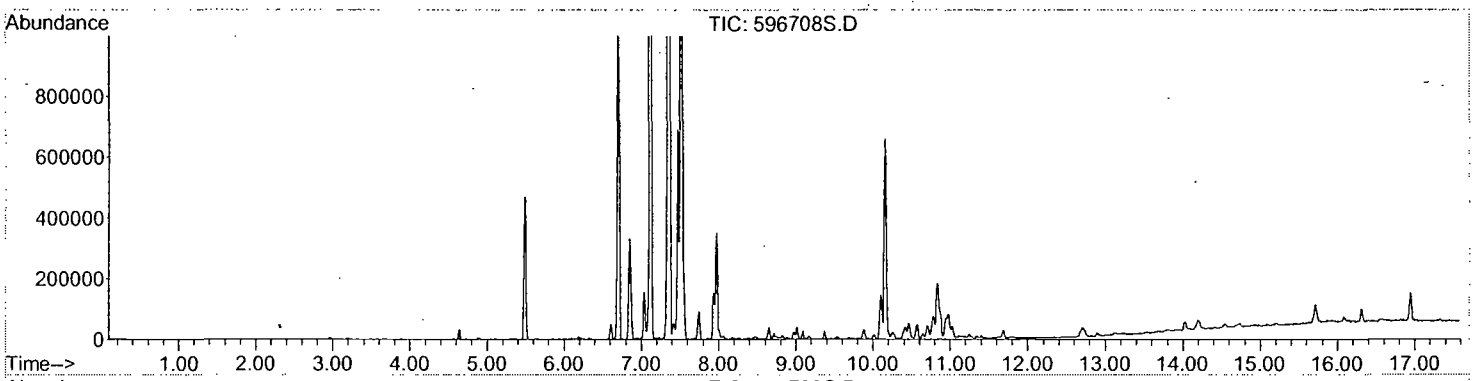
TICS - SITE EXE - PRODUCTION ORDER NUMBER: 14105381
IN NUMERICAL ORDER

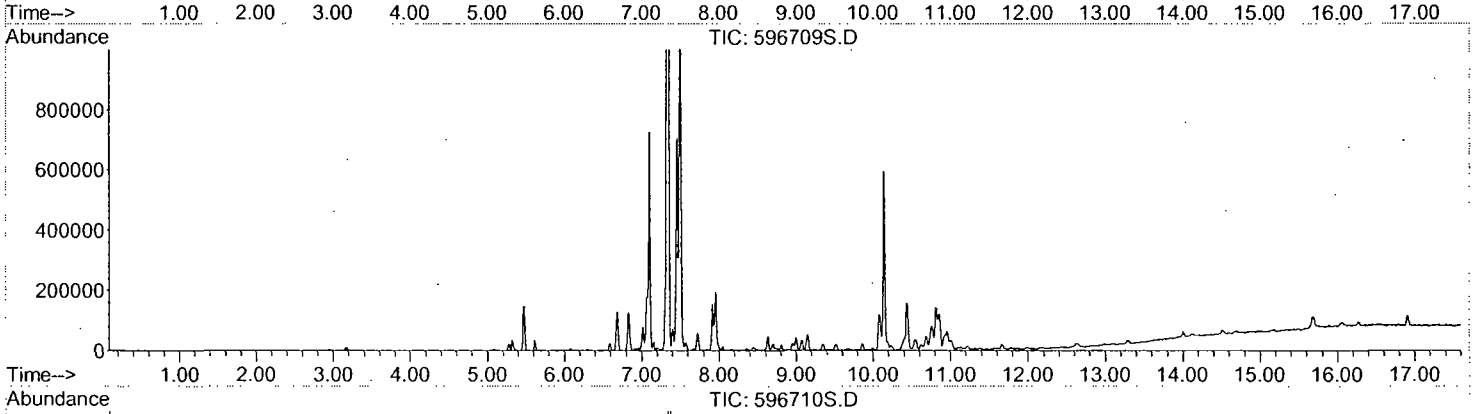


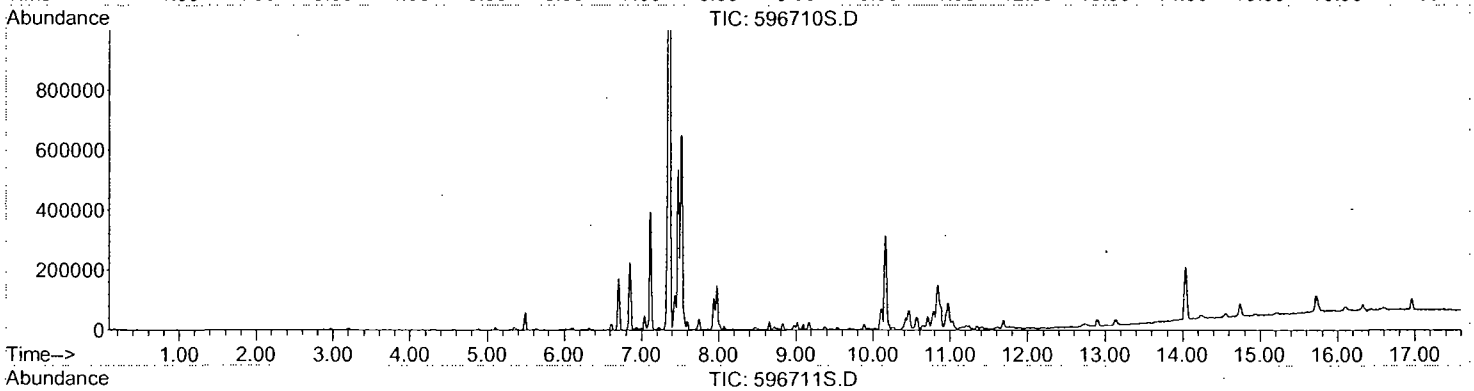
TICS - SITE EXE - PRODUCTION ORDER NUMBER: 14105381
IN NUMERICAL ORDER

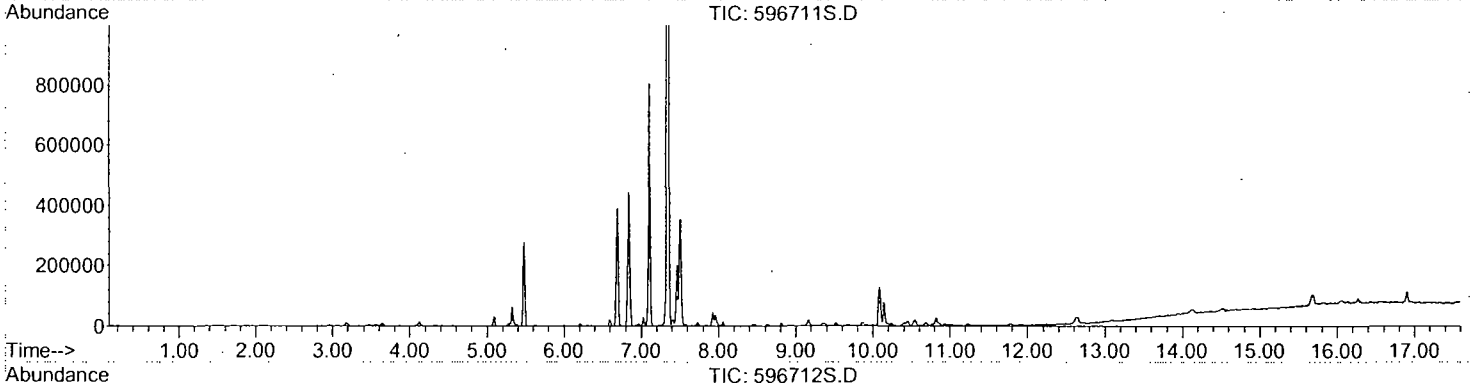


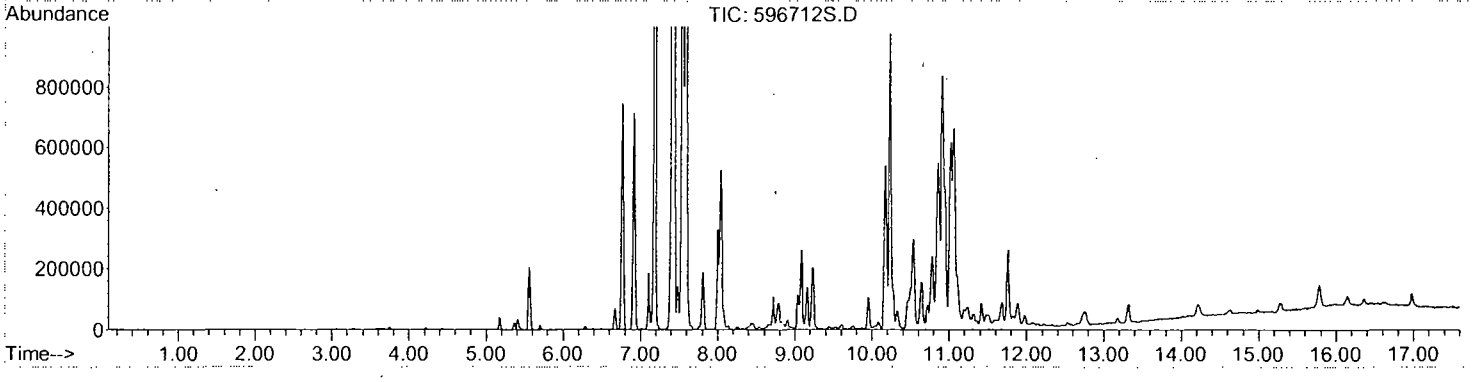
TICS - SITE EXE - PRODUCTION ORDER NUMBER: 14105381
IN NUMERICAL ORDER











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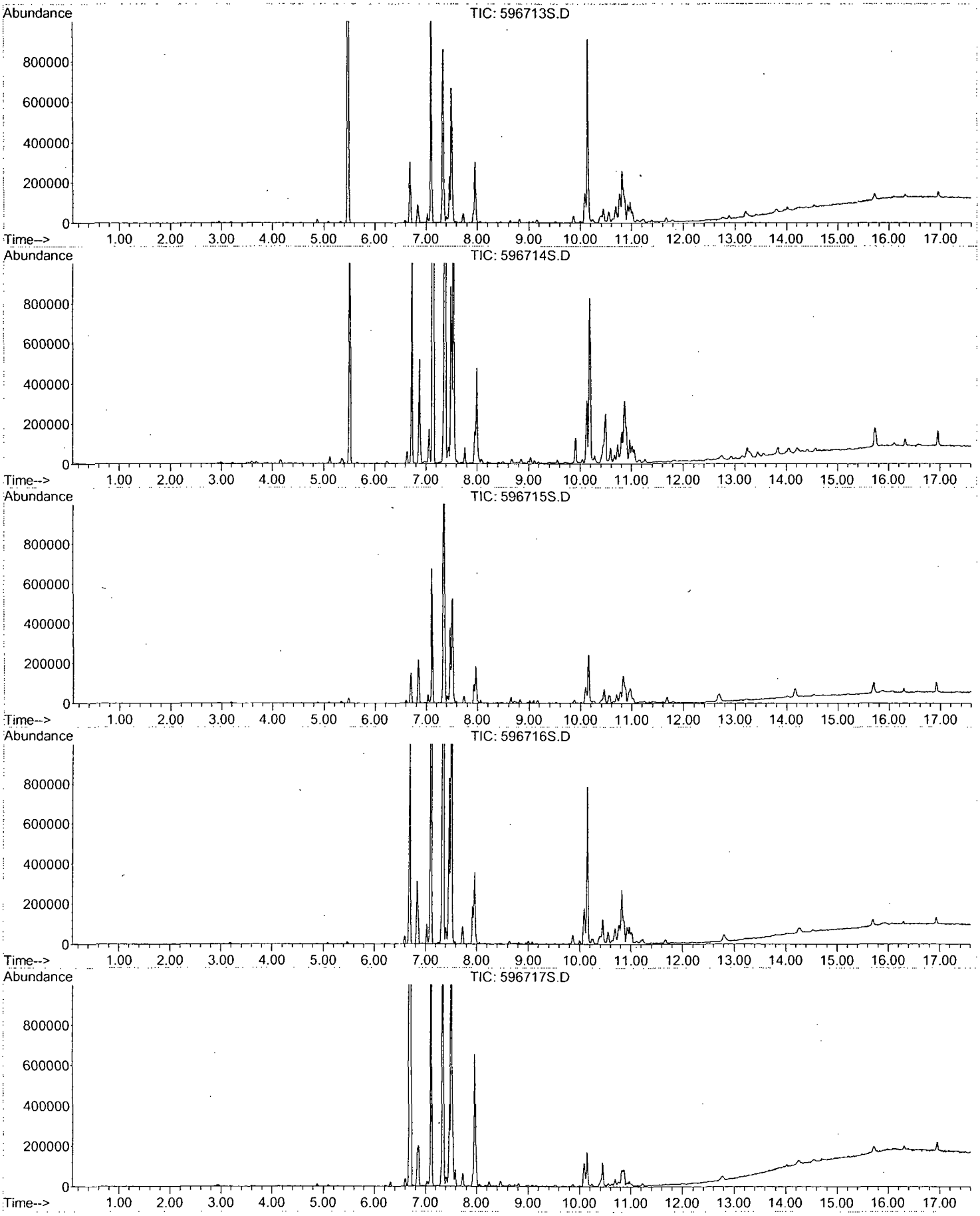

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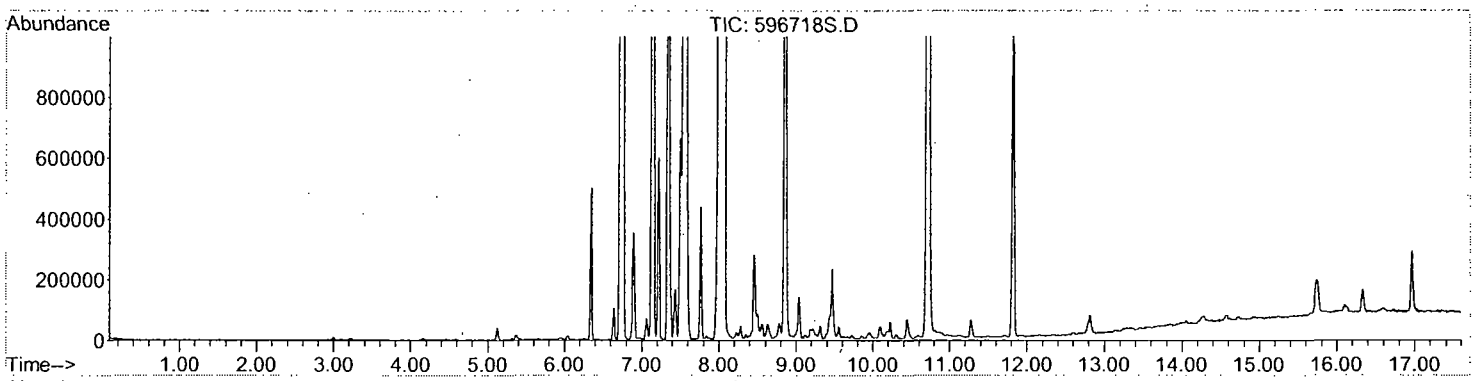

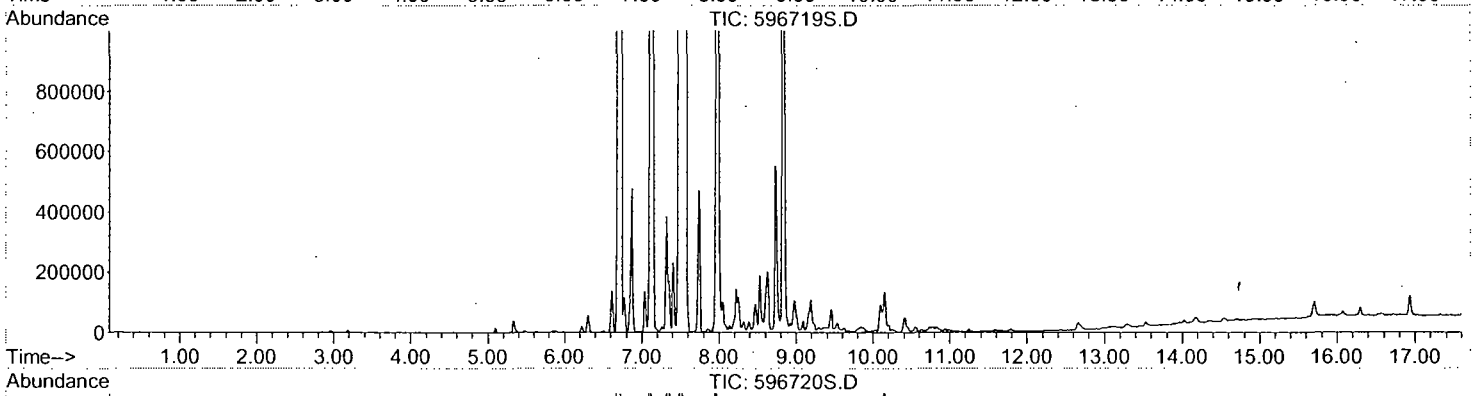

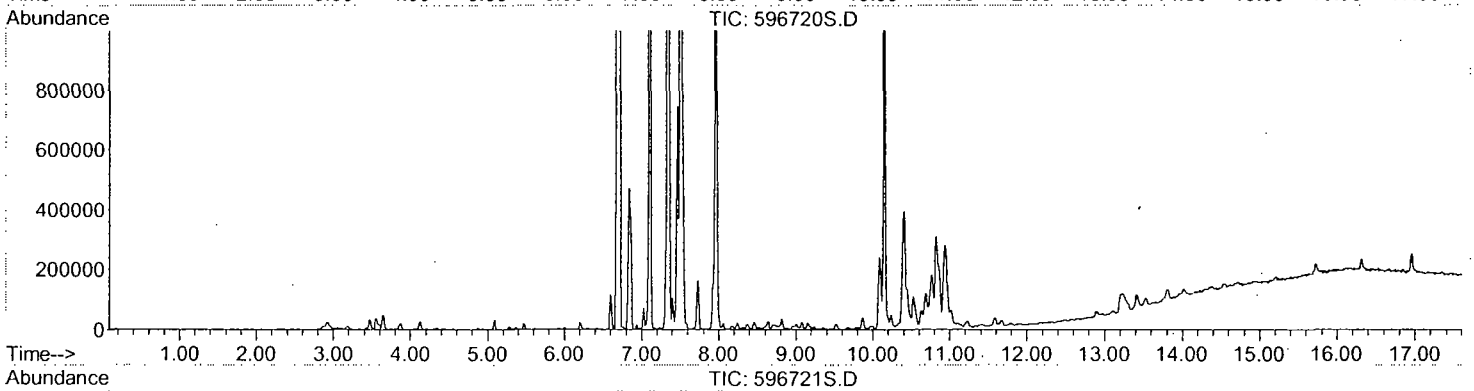

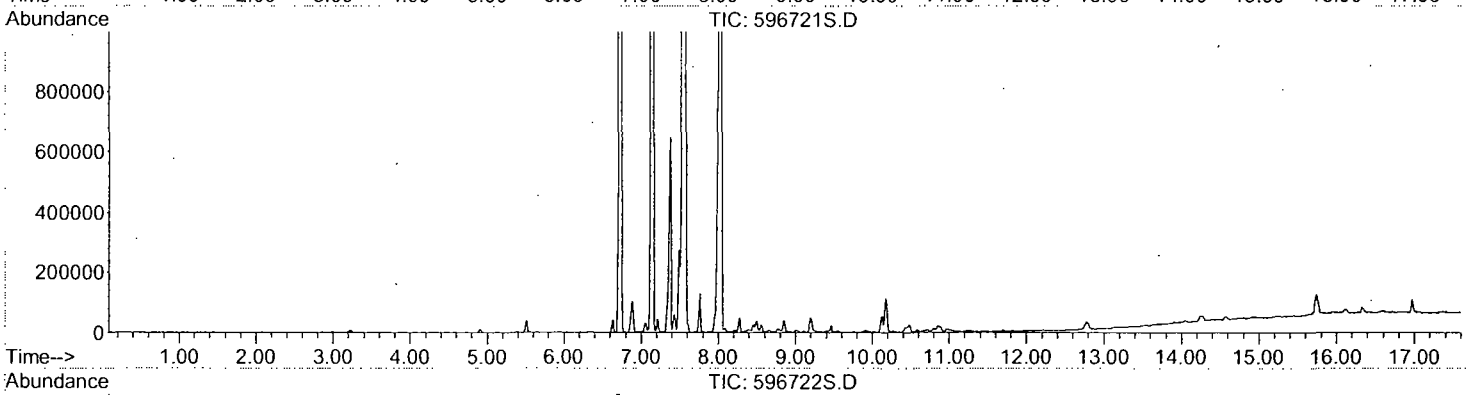

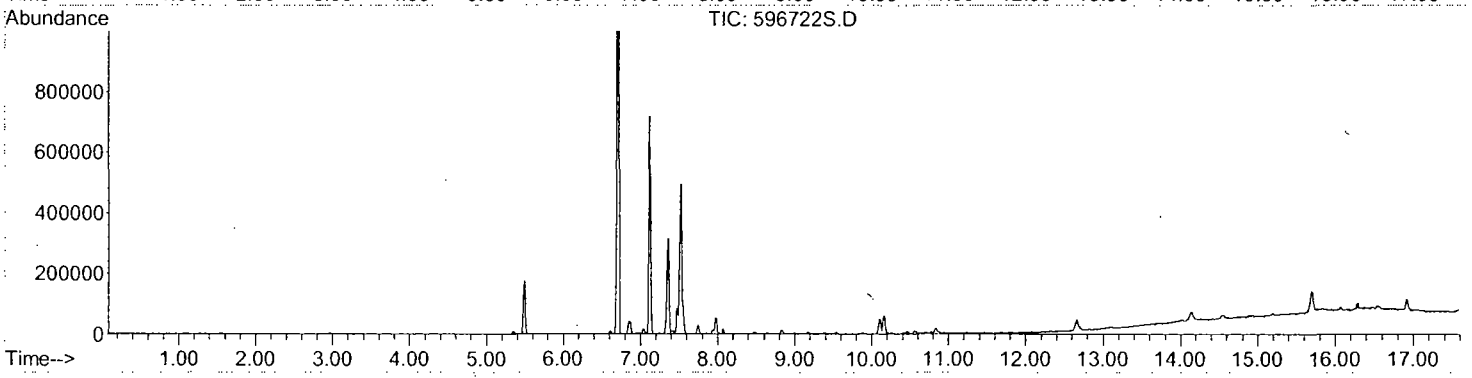

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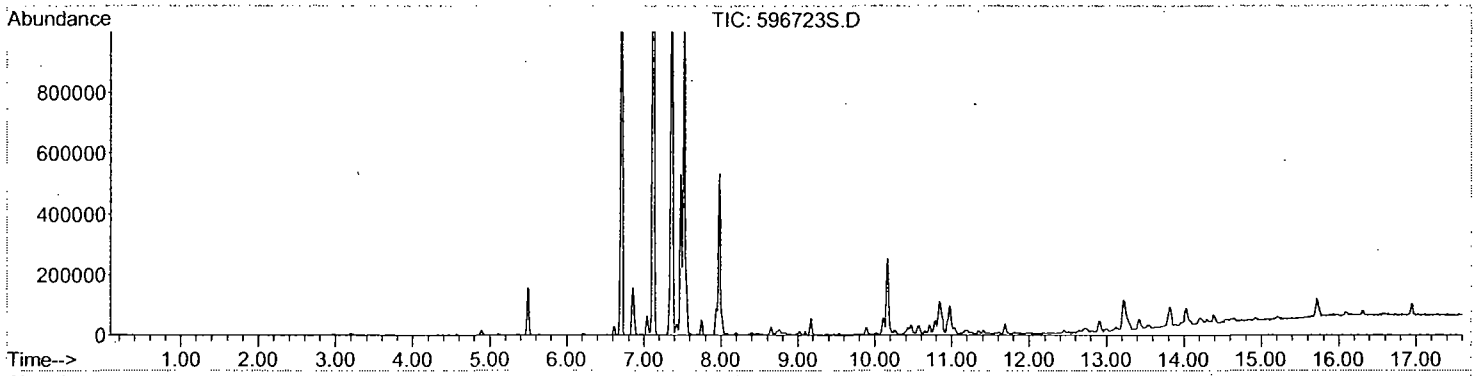

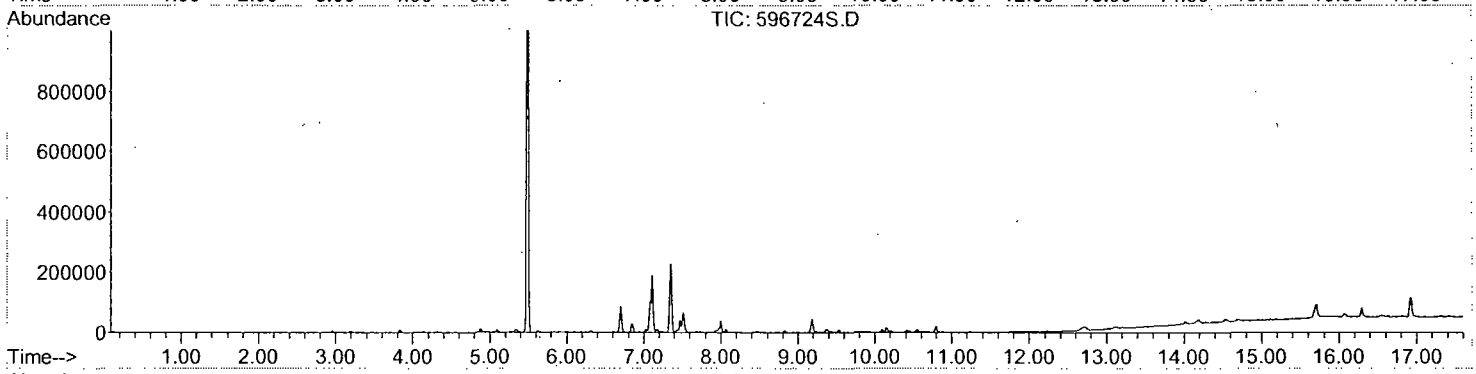

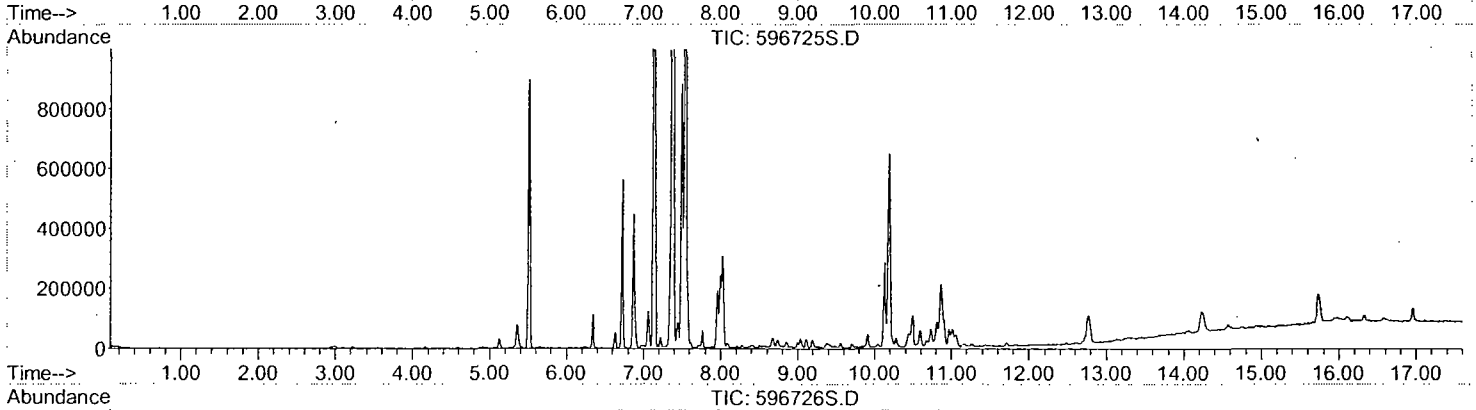

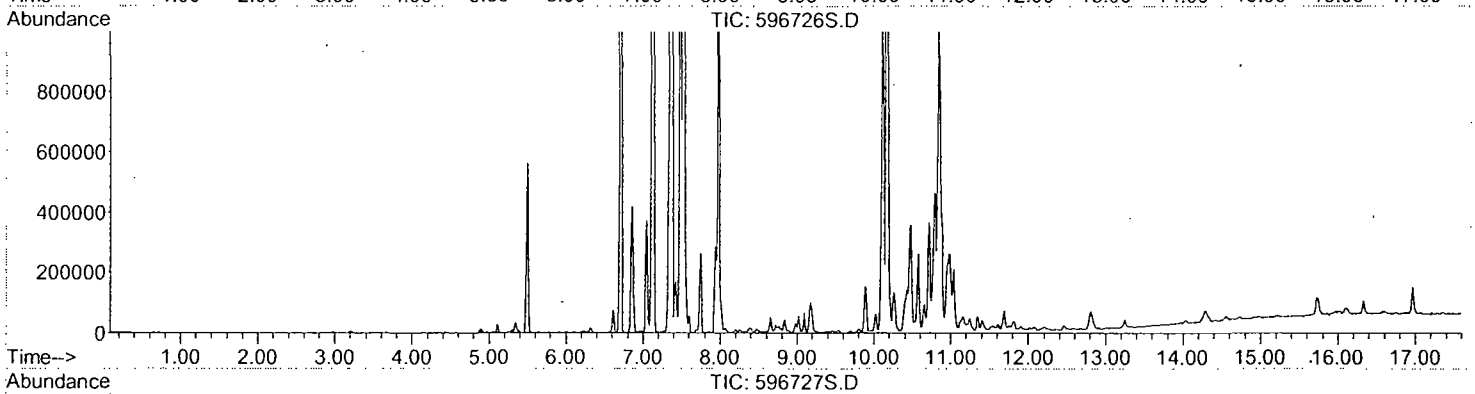

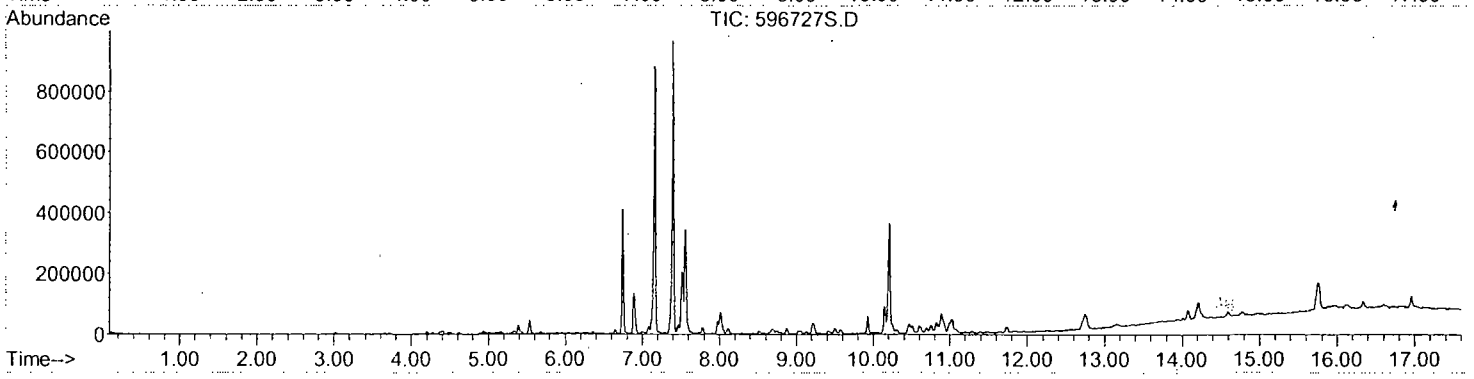

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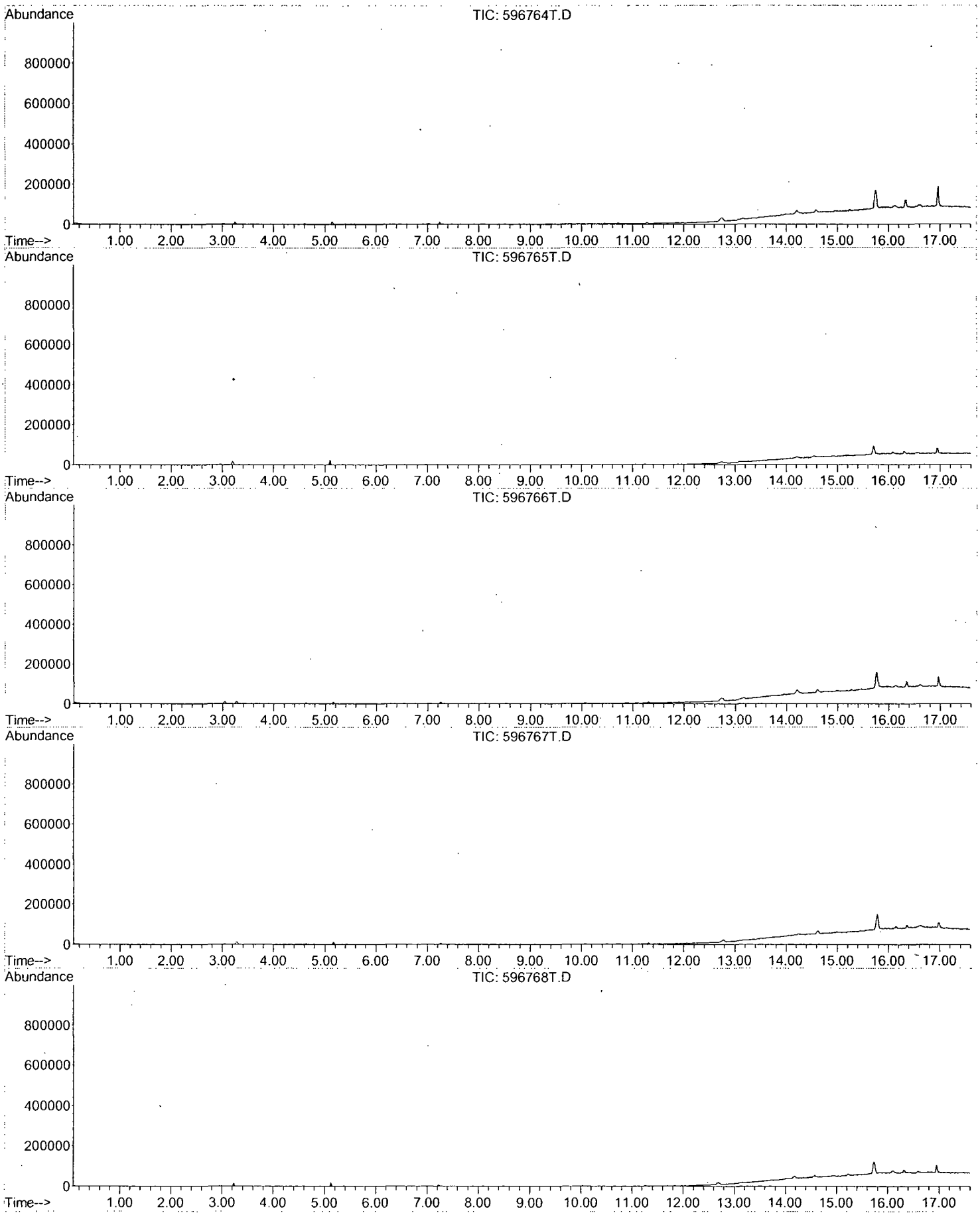

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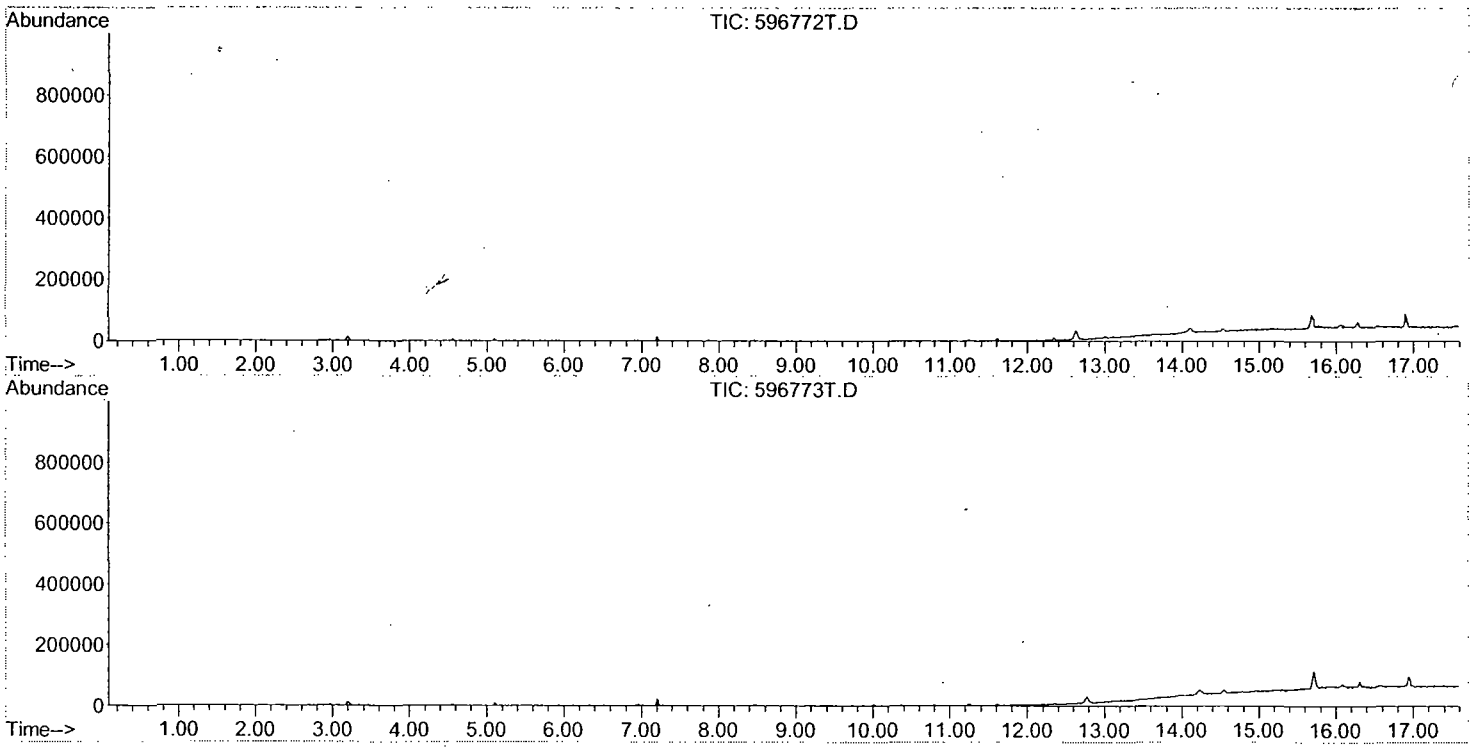

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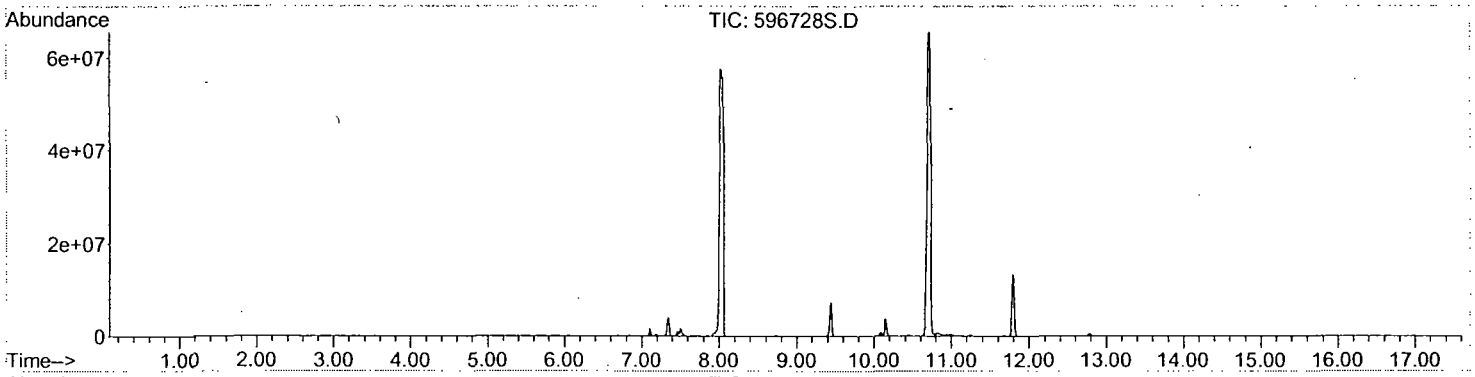

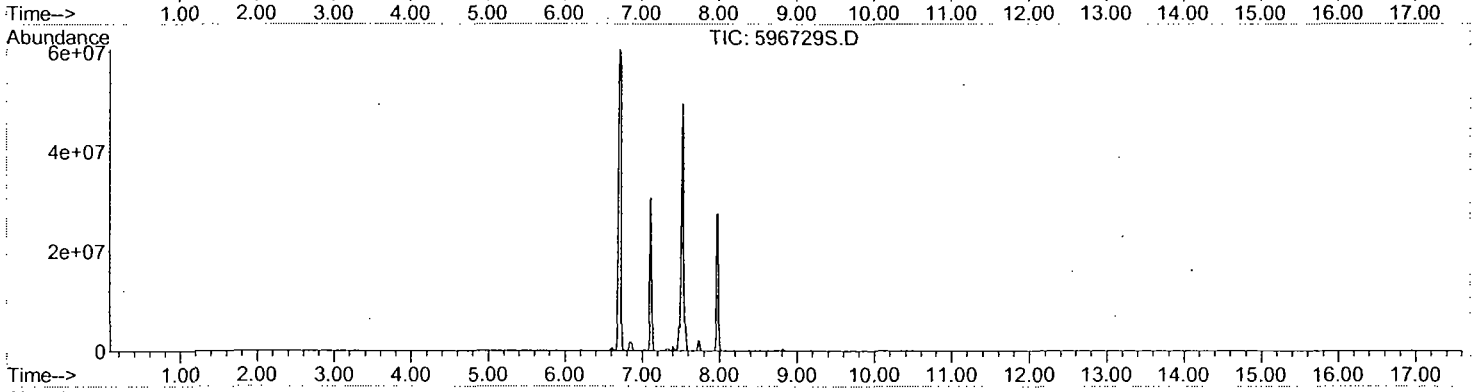

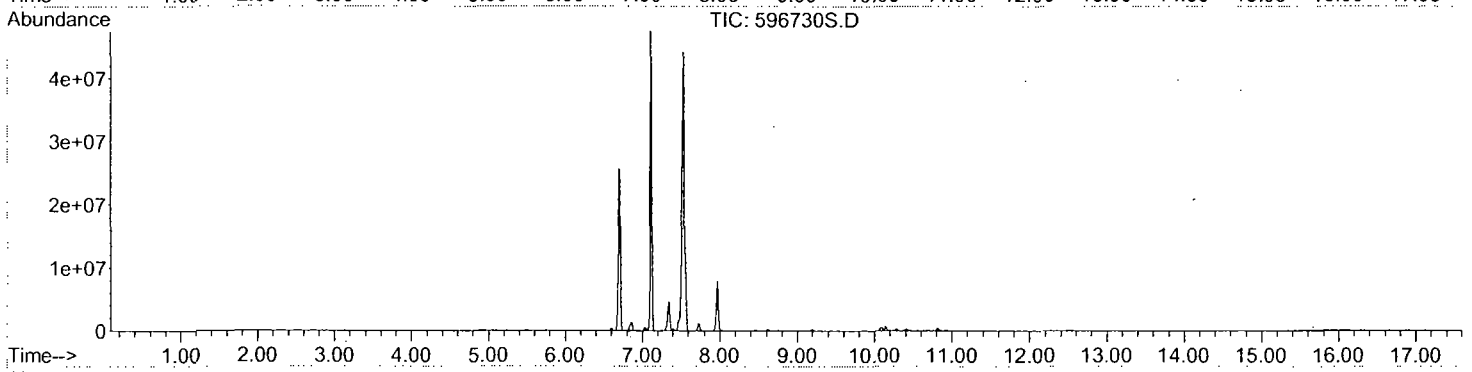

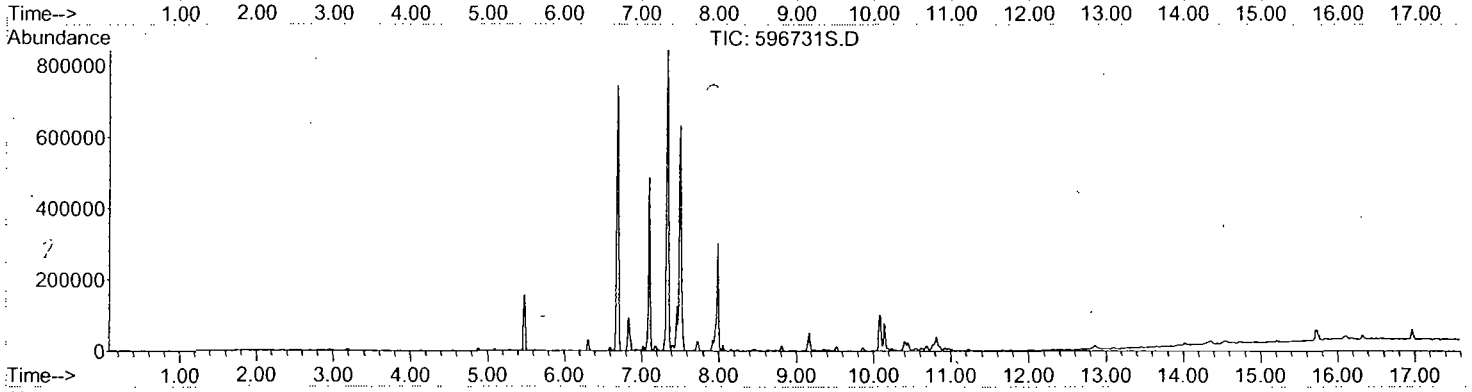

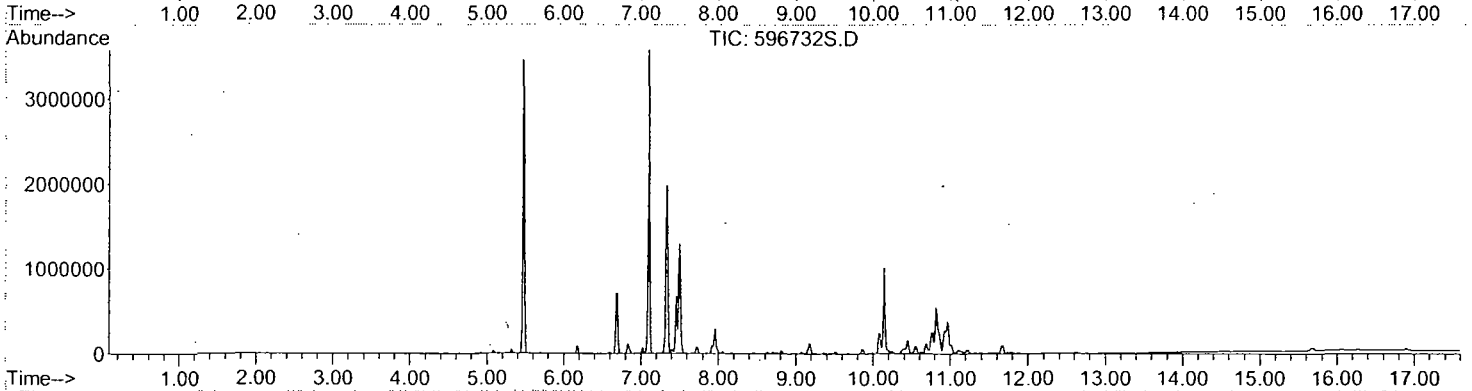

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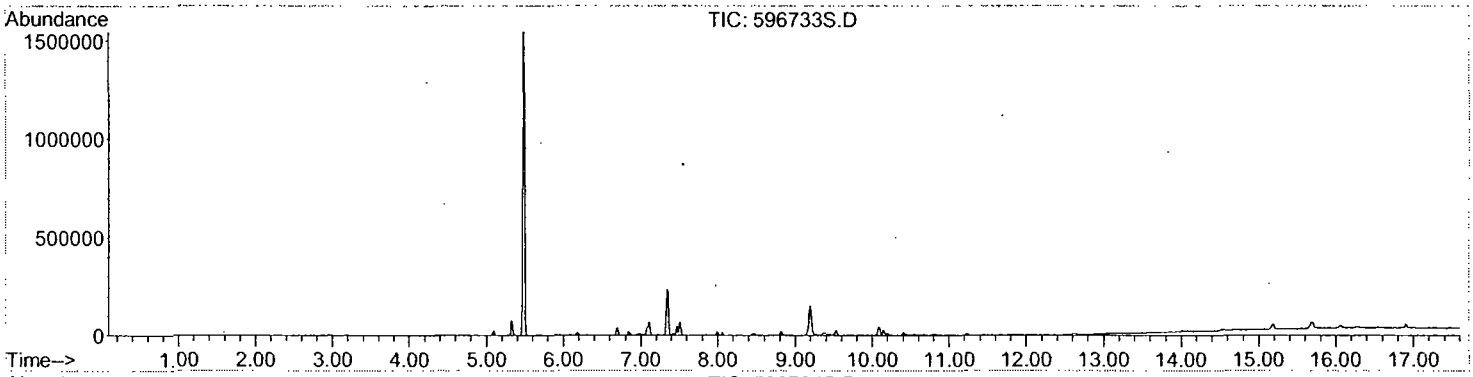

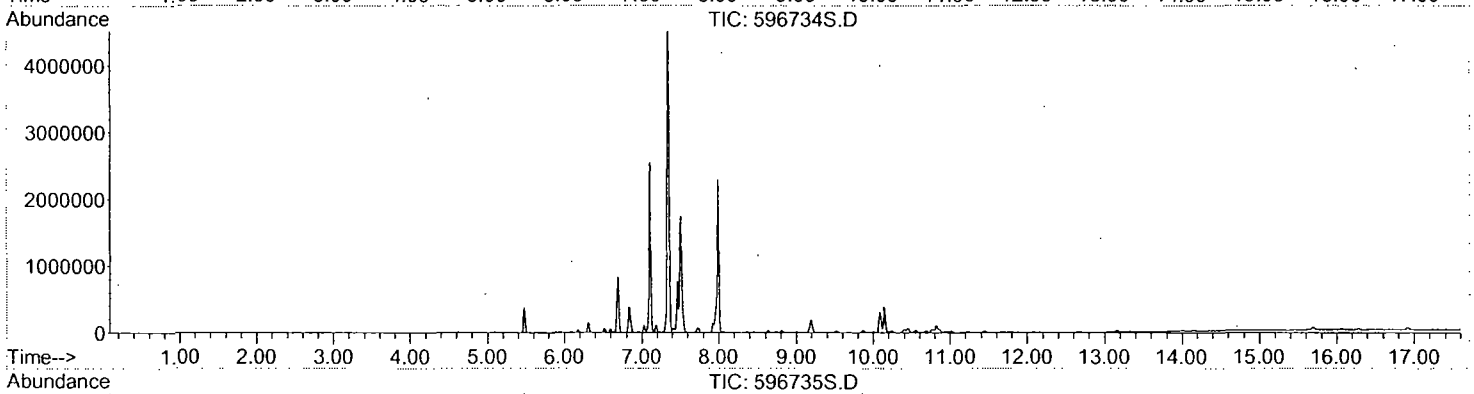

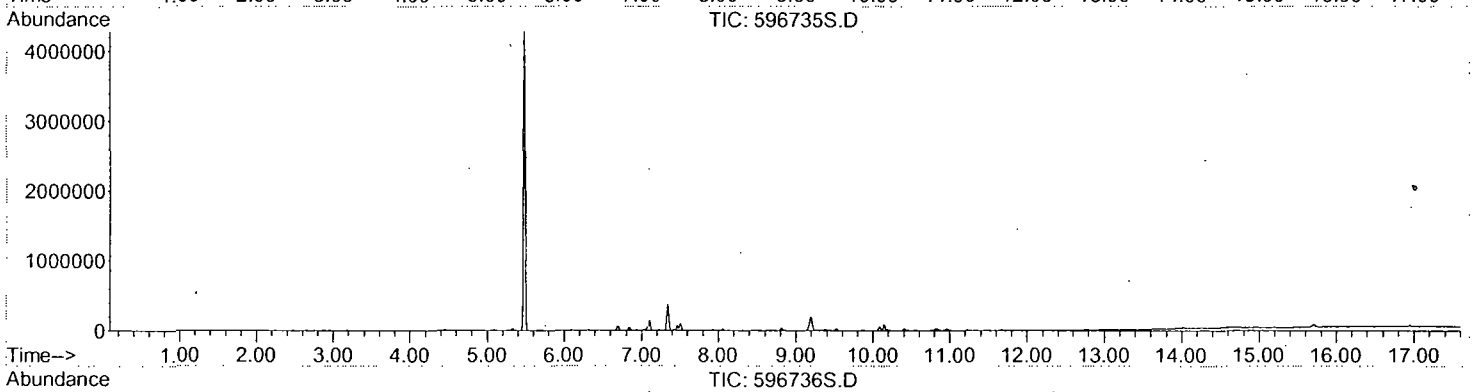

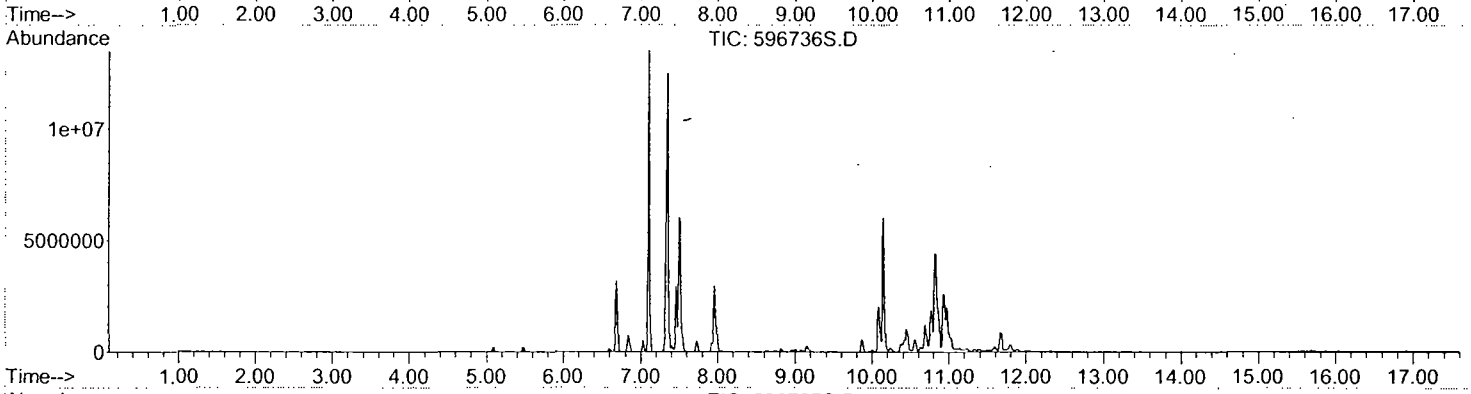

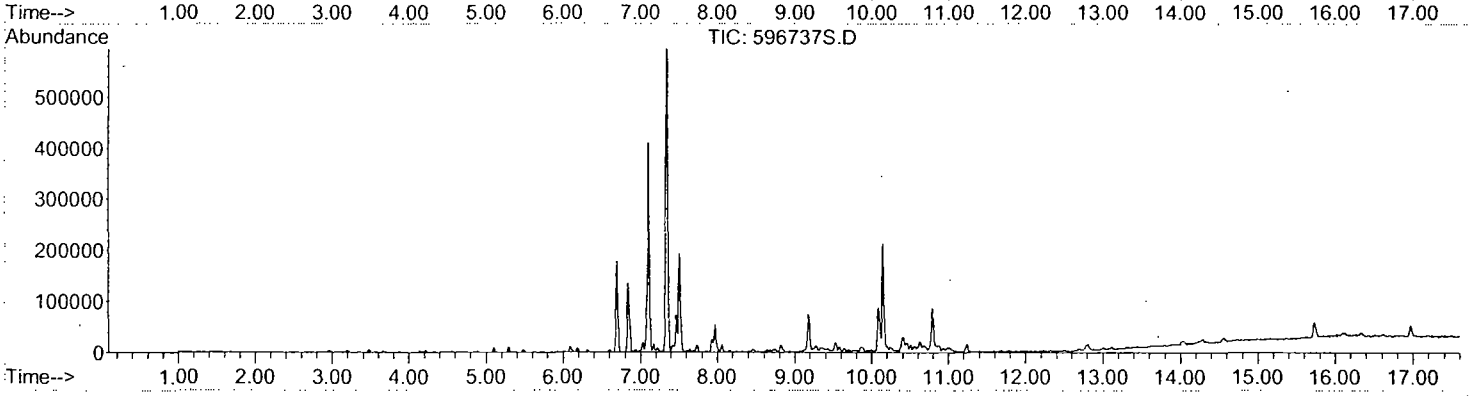

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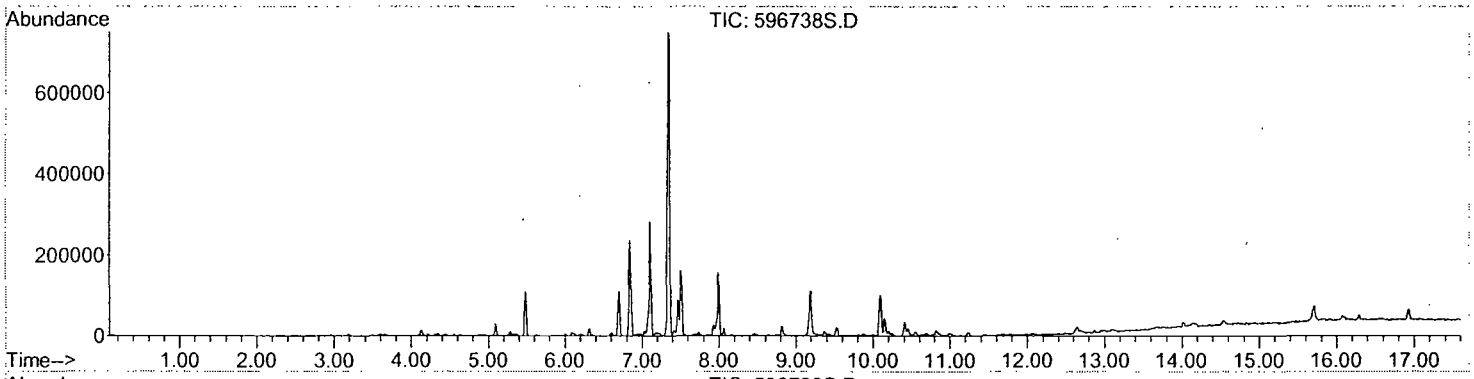

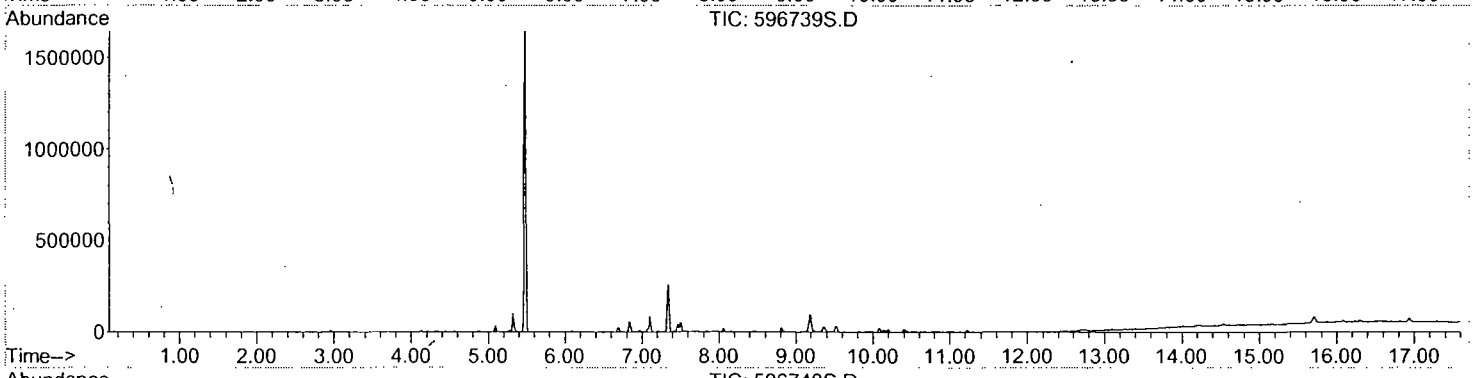

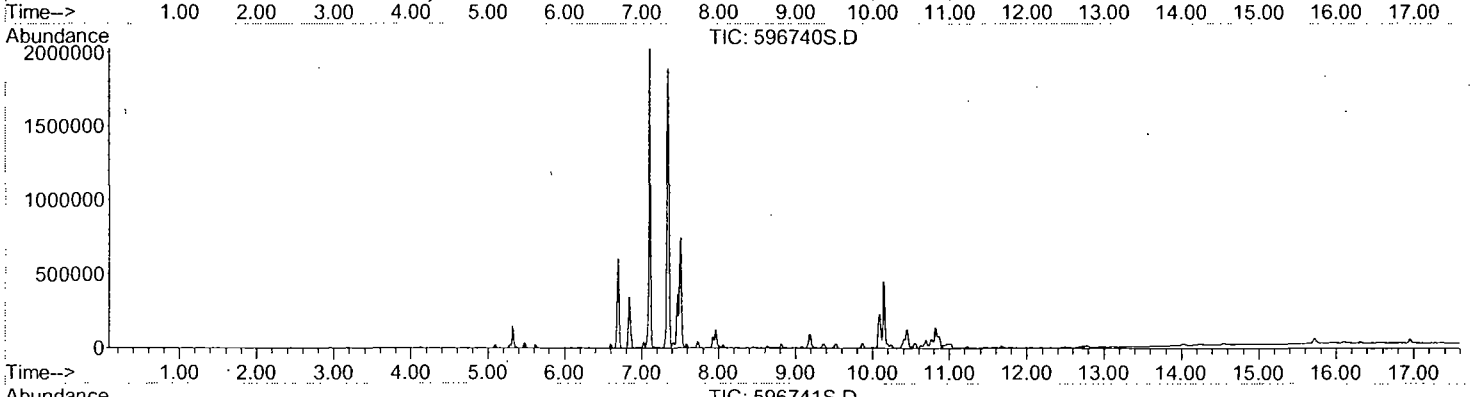

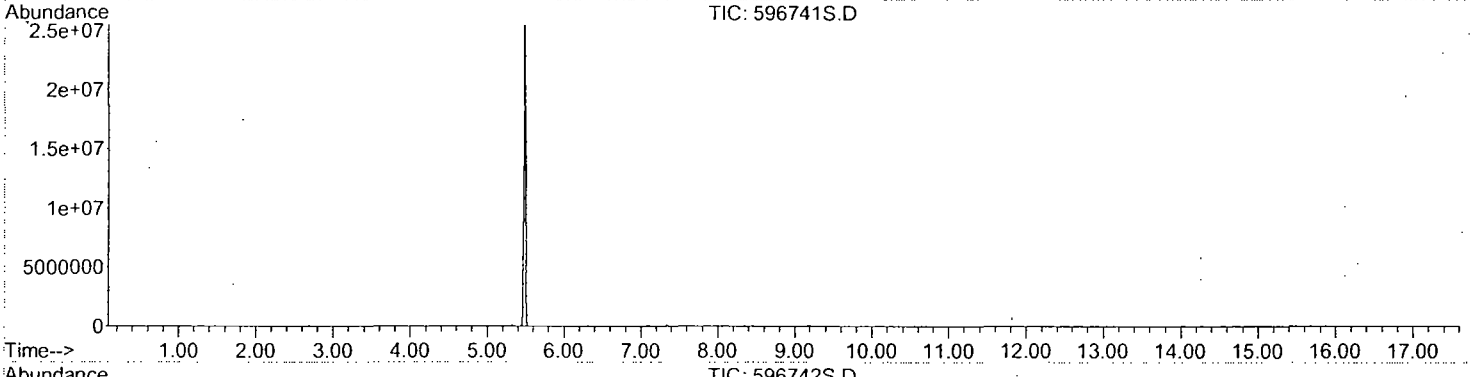

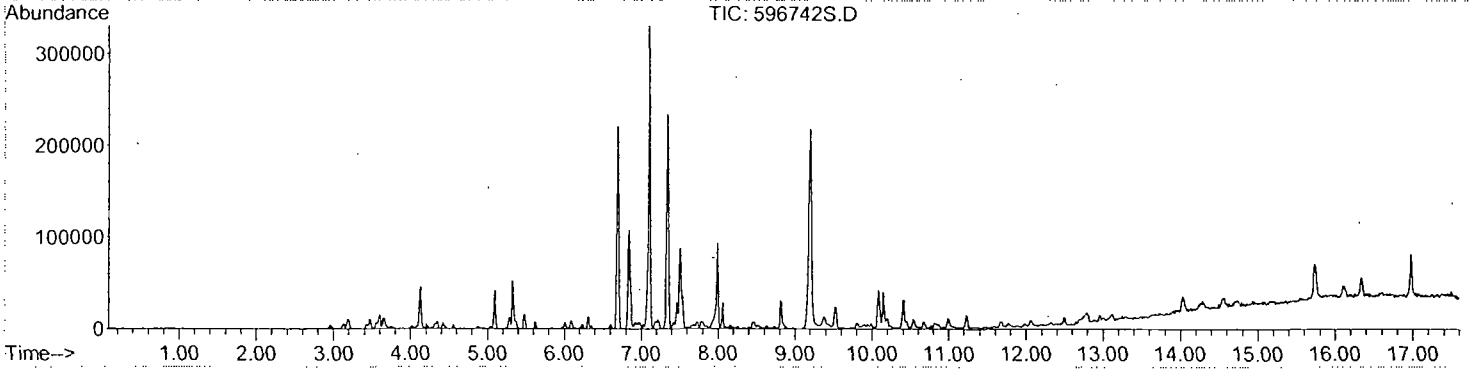

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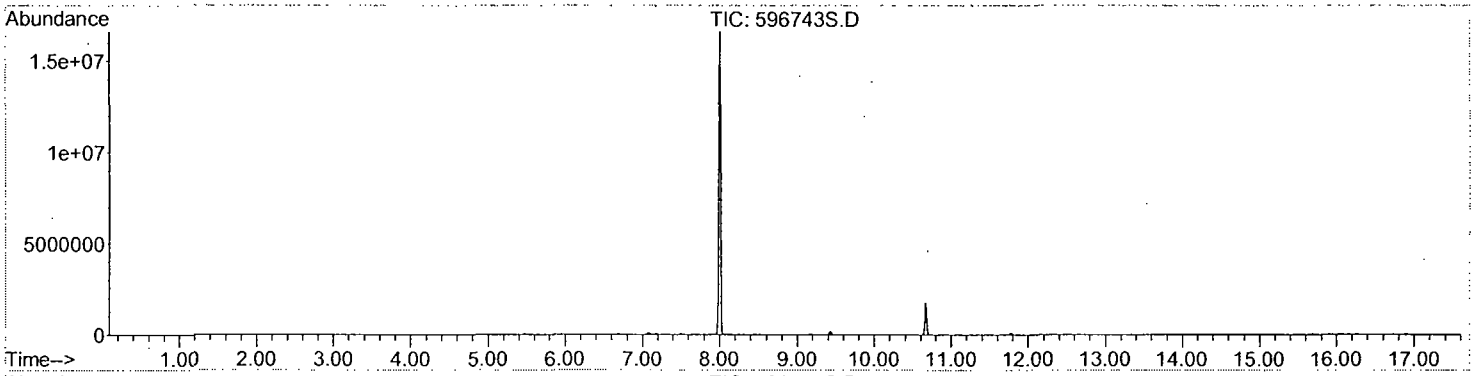

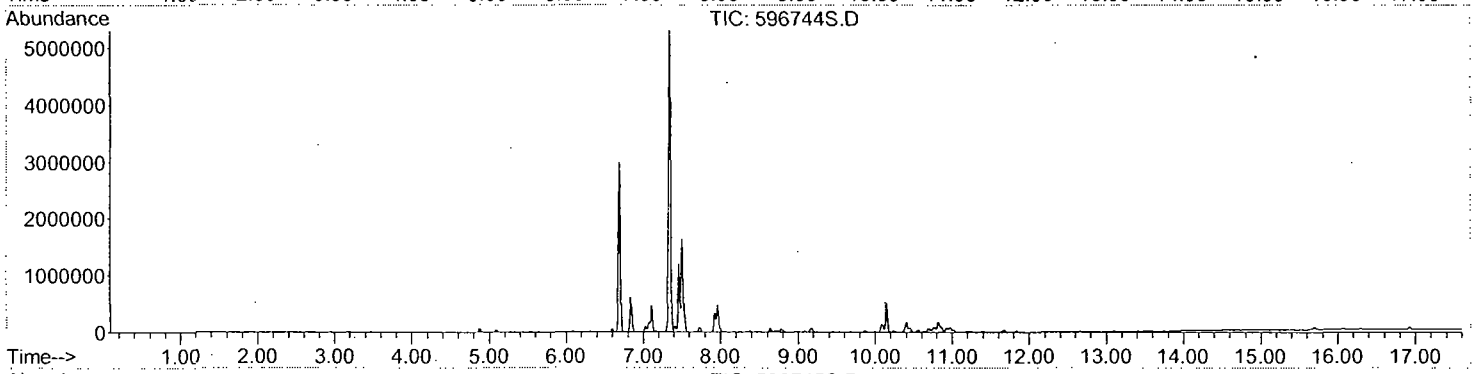

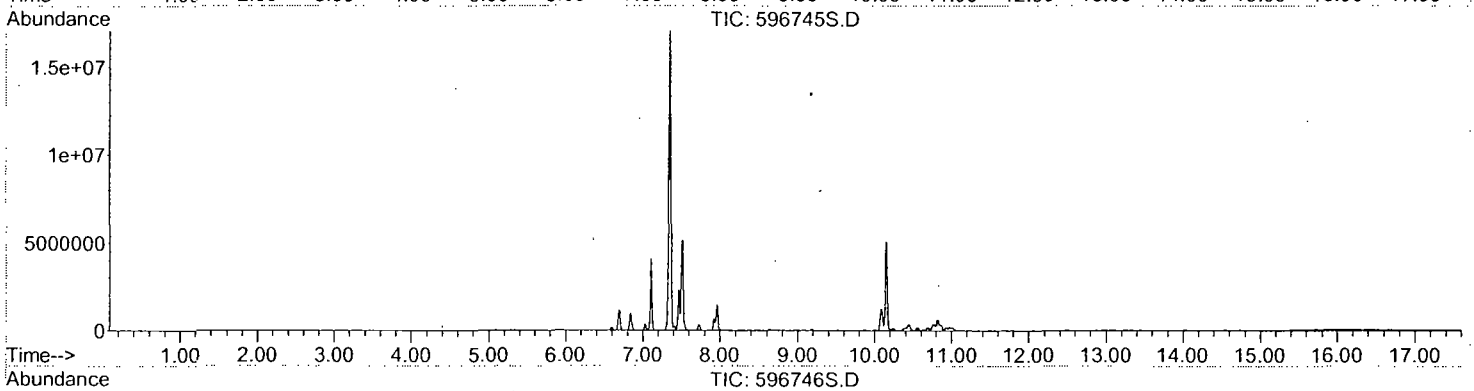

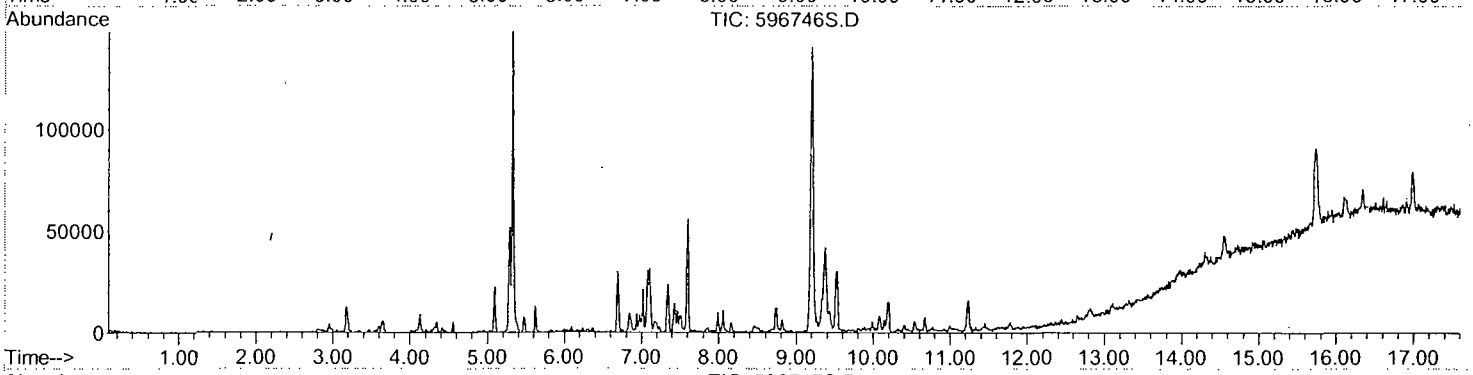

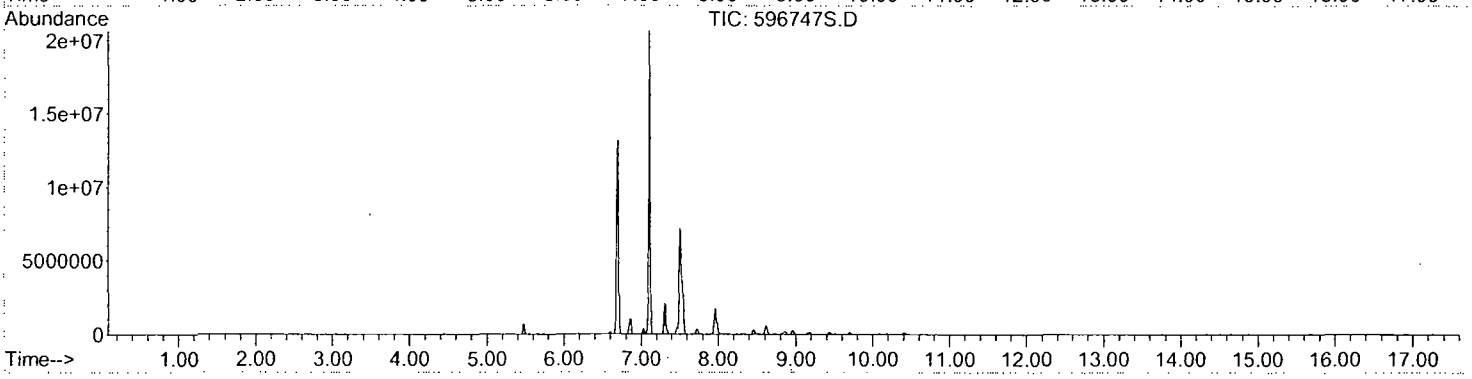

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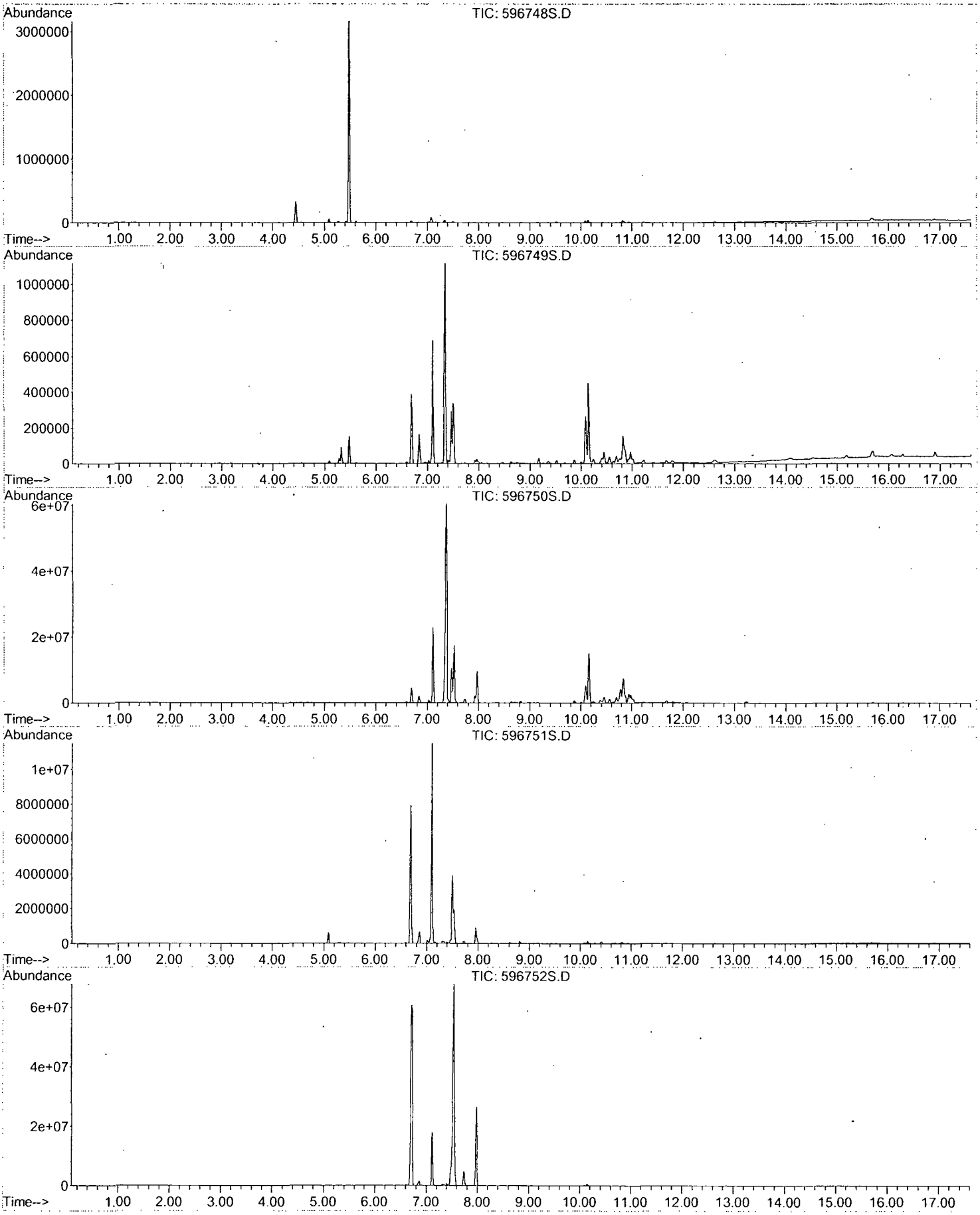

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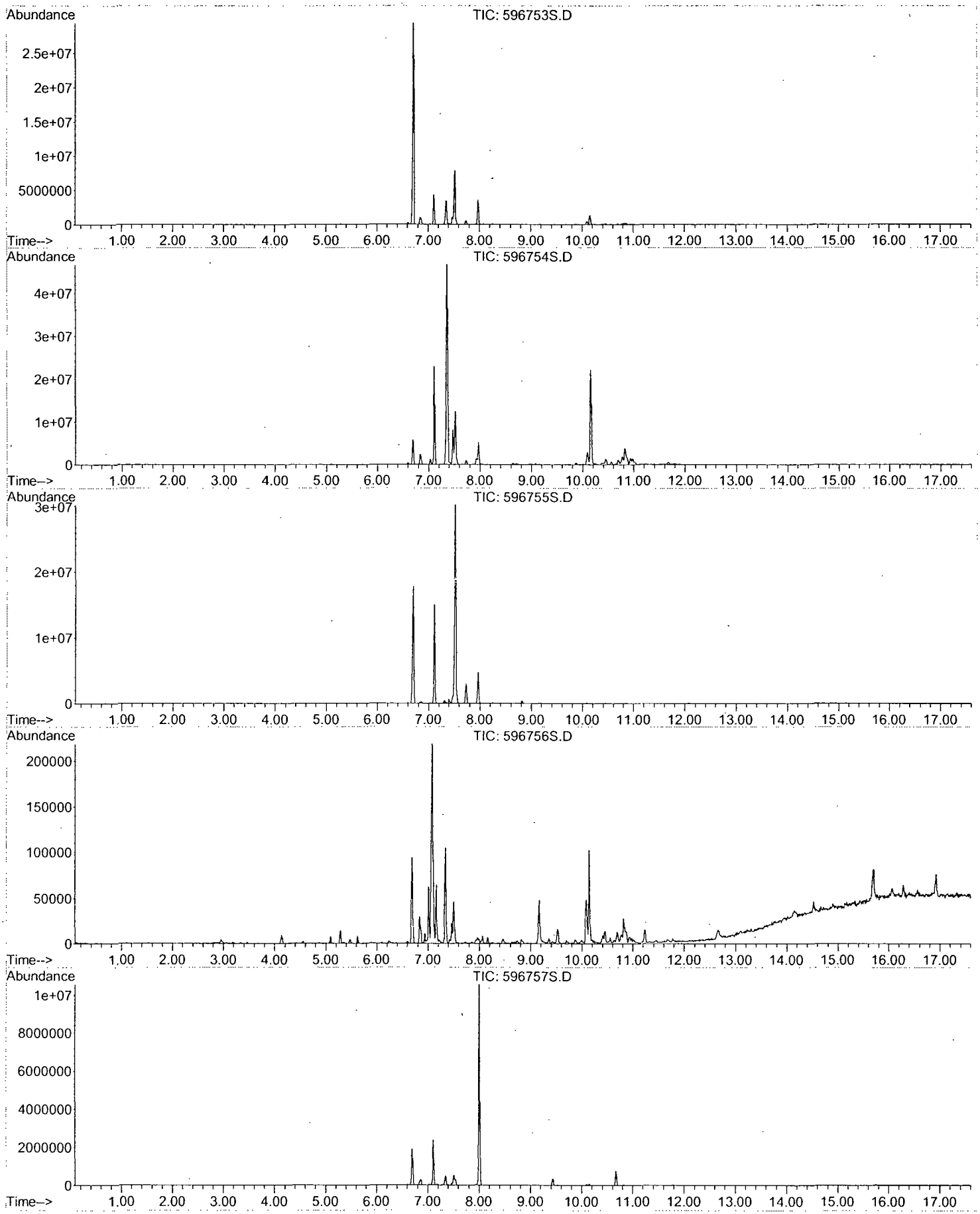

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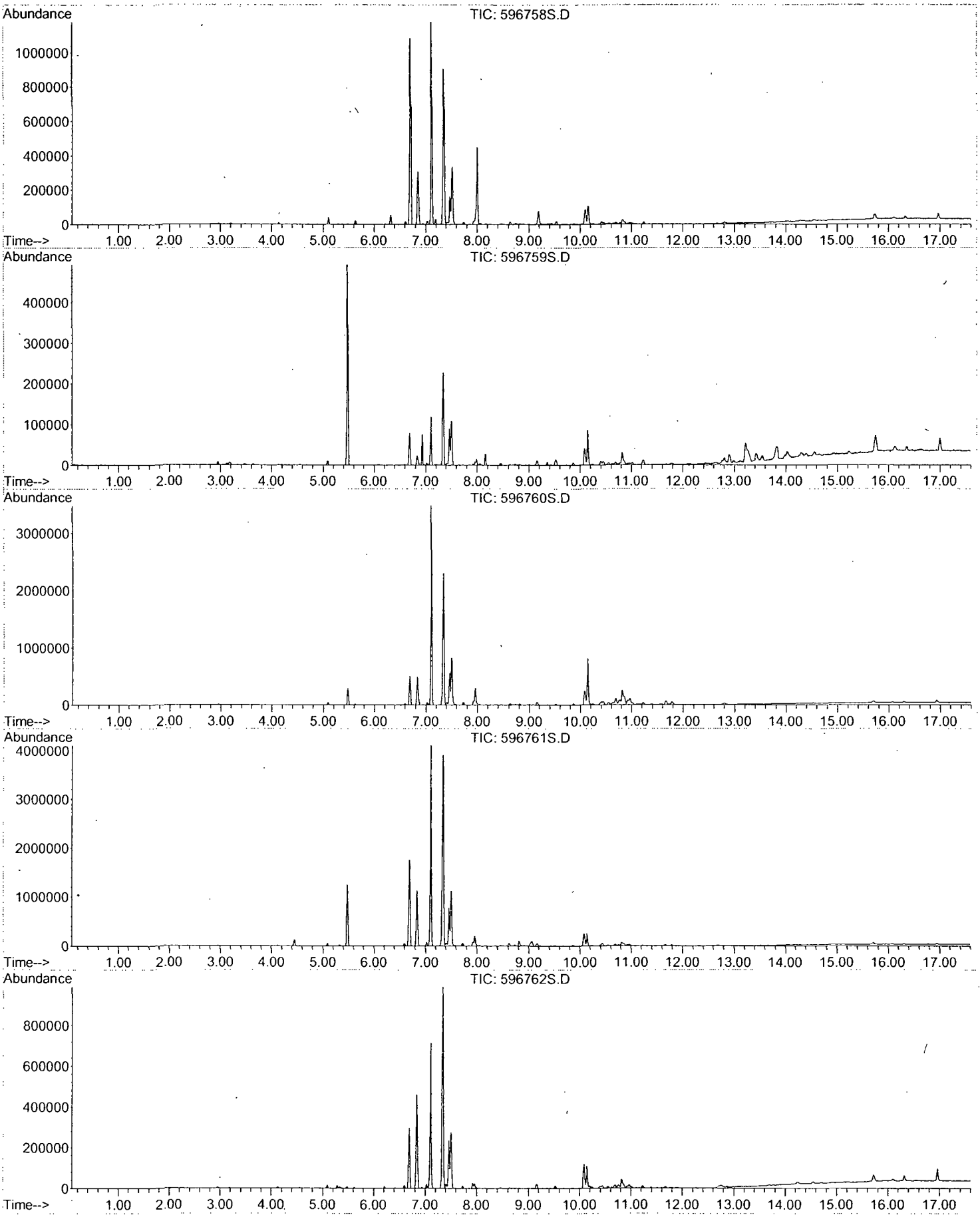

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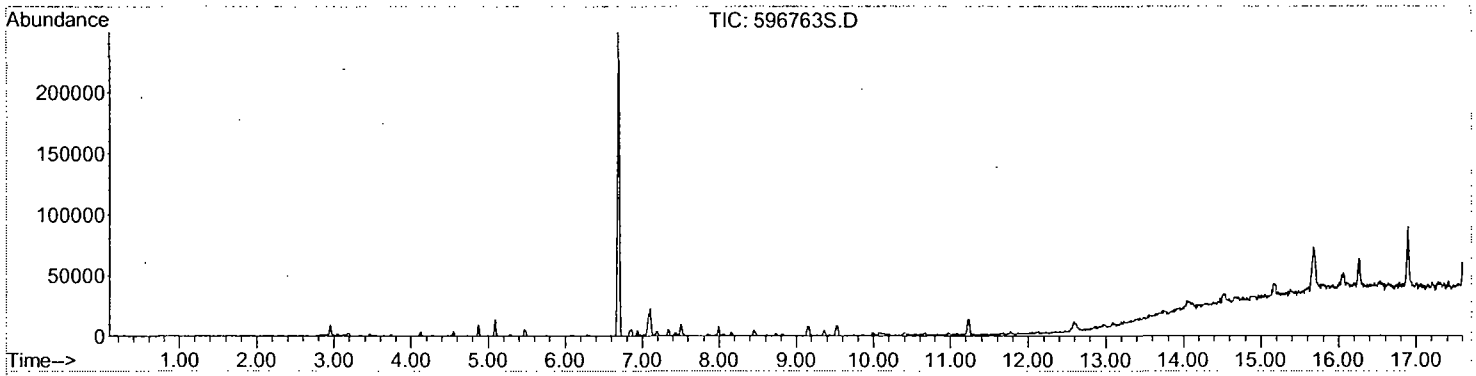

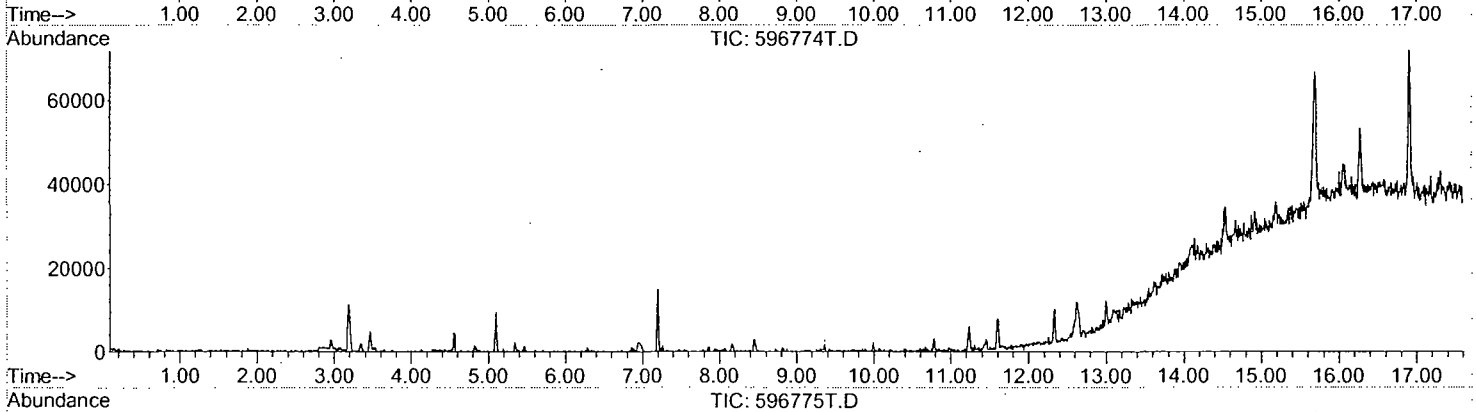

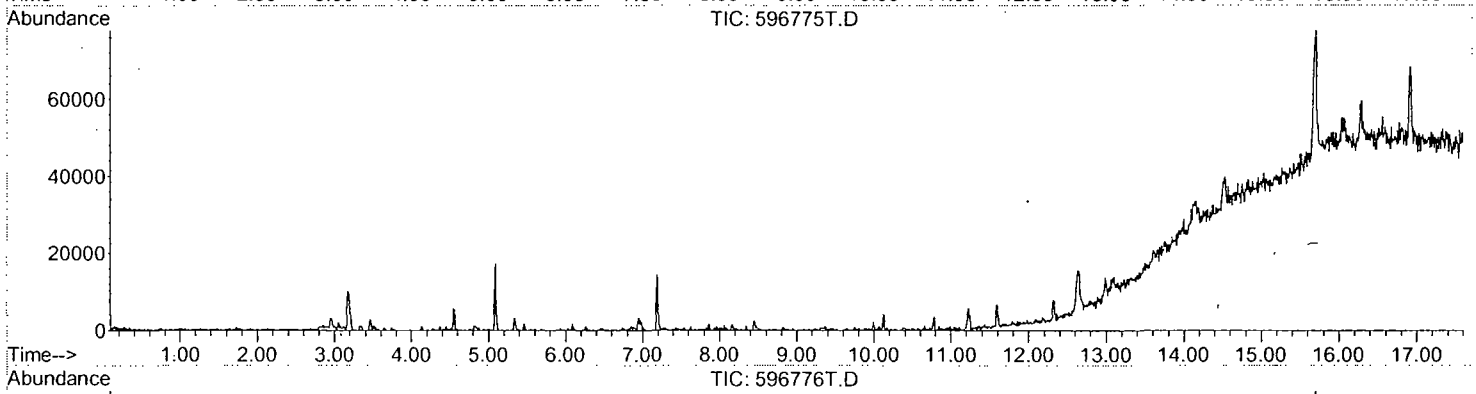

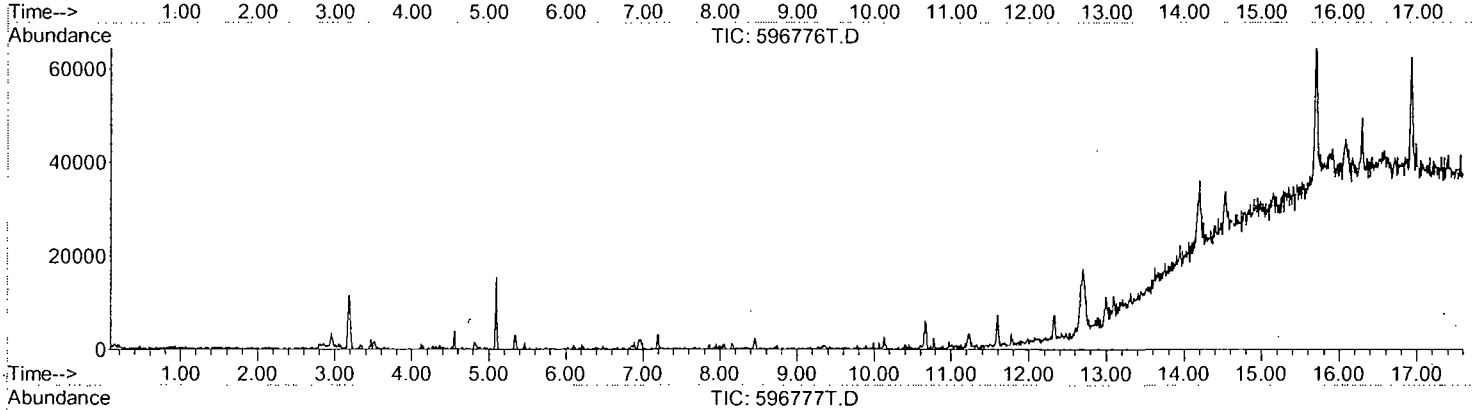

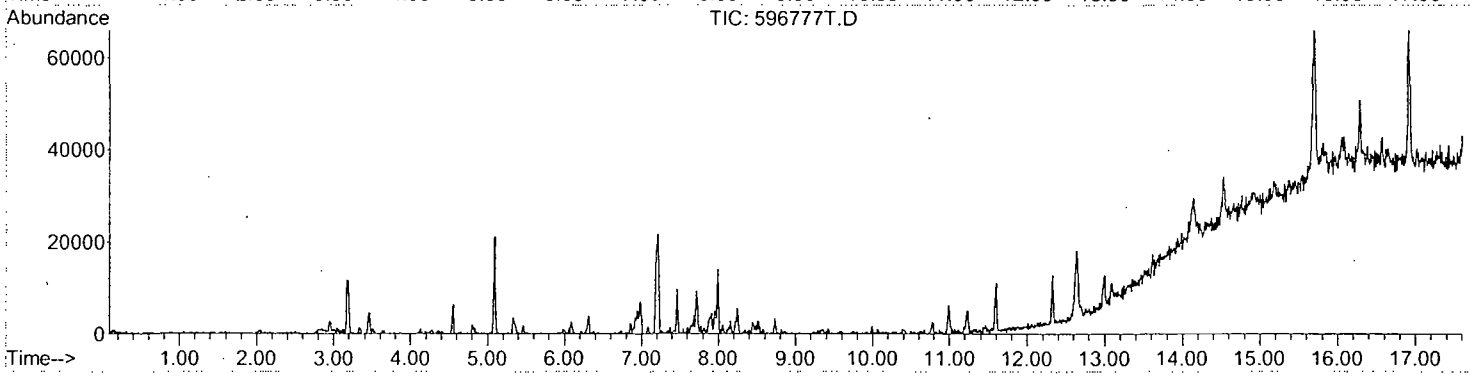

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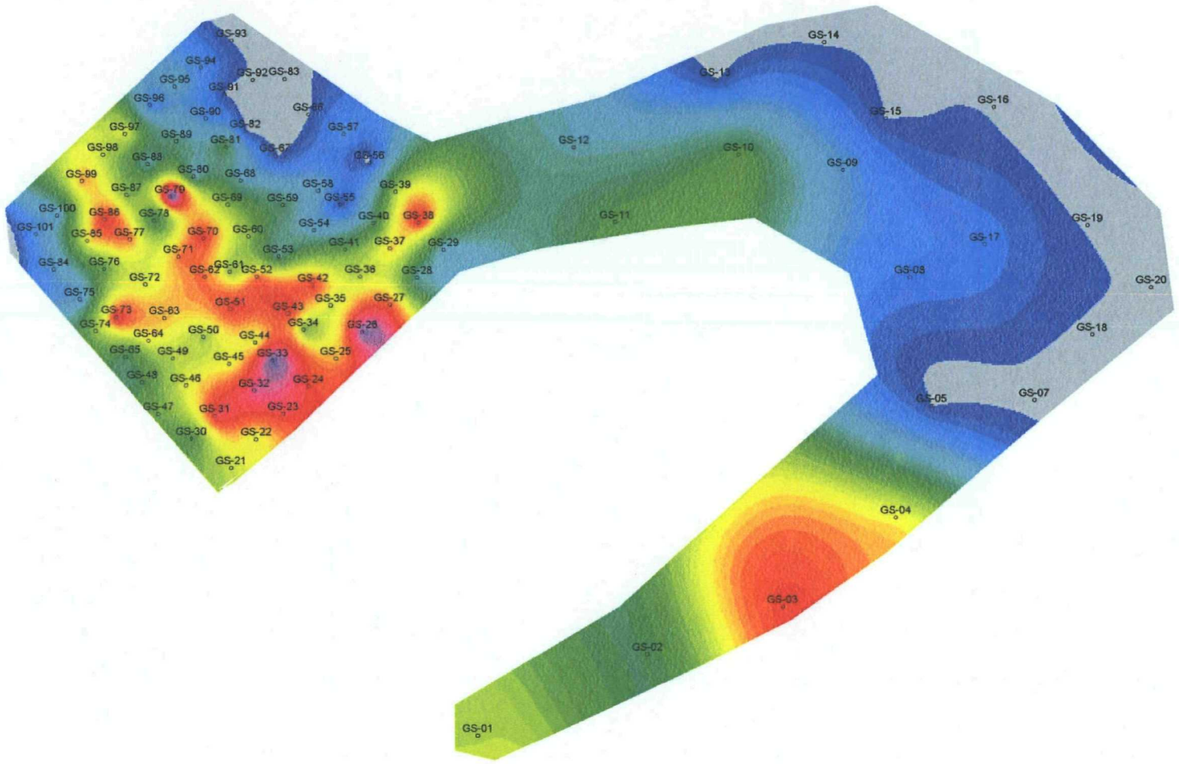

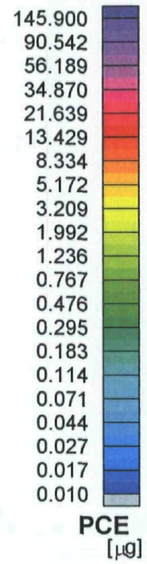

Scale 1:2400

100 0 100 200 300 400 500

(feet)

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GORE ™ Surveys for Environmental Site Assessment

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Creative Technologies Worldwide

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USA
(410) 392-7600

RMT Inc.
Schlumberger Remediation
Tetrachloroethene

DATE DRAWN: 2009 Jul 31	DRAWN BY: HGT	ORIG. CAD: shape	SITE CODE: EXG
REV. DATE:	REV. #:	PROJECT NUMBER: 14105381	

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Appendix C
Soils Laboratory Reports

RMT, Inc.

Falling Head Permeability Test (ASTM D5084)

QC:

QA:

Project Name:	Sangamo Plant Site	Cell #:	4
Project #:	71238.40	USCS Description:	N/A
Sample Name:	CP-H-02, 2-4'	USCS Classification:	N/A
Visual Descript:	Lean clay with sand	Average Kv =	5.4E-08 cm/sec

		Initial Values	Final Values			
Sample Type:	Undisturbed					
Sample Dia. (in)		2.87	2.87	Permeant:	Water	
Sample Ht. (in)		2.29	2.29	Permeant Specific Gravity:	1.00	
Tare & Wet (g)		218.95	728.40	Sample Specific Gravity:	2.69	Est.
Tare & Dry (g)		194.61	614.70	Confining Pressure (psi):	100.0	
Tare (g)		111.71	267.53	Burette Diameter (in):	0.250	
Sample Wt. (g)		454.90	460.87	Burette Zero (cm):	100.0	
Moisture (%)		29.4	32.8	Maximum Gradient:	14.8	
Wet Density (pcf)		117.0	118.5	Average Gradient:	13.5	
Dry Density (pcf)		90.4	89.3	Max. Effect. Stress (psi):	5.7	
Saturation (%)		92.2	100.1	Min. Effect. Stress (psi):	4.2	
				Ave. Effect. Stress (psi):	5.0	

	Date			Time		Run	Temp	Pressure (psi)			Cham.		Bot.		Top	Flow	Kv ***	Ave.*
	Yr.	Mo.	Day	Hr.	Min.	Time	C***	Bot	Top	Cham	Dif.	Bot	Dif.	Top	Dif.	Dif.%	cm/sec	0,1
1	2009	7	1	5	59.00		0.0	95	95	43.15		22.40		95.10				
2	2009	7	1	7	32.00	5580	20.0	95	95	43.80	0.65	22.95	0.55	94.10	1.00	-29.0	8.5E-08	
3	2009	7	1	10	5.00	9180	20.0	95	95	44.30	0.50	24.05	1.10	93.05	1.05	2.3	7.4E-08	
4	2009	7	1	12	56.00	10260	20.0	95	95	44.95	0.65	25.20	1.15	92.05	1.00	7.0	6.8E-08	
5	2009	7	1	14	8.00	4320	20.0	95	95	45.20	0.25	25.60	0.40	91.50	0.55	-15.8	7.3E-08	
6	2009	7	1	15	10.00	3720	20.0	95	95	45.30	0.10	25.95	0.35	91.25	0.25	16.7	5.4E-08	
7	2009	7	2	5	56.00	53160	19.0	95	95	47.90	2.60	30.65	4.70	86.55	4.70	0.0	6.6E-08	
8	2009	7	2	7	54.00	7080	20.0	95	95	48.40	0.50	31.20	0.55	86.10	0.45	10.0	5.6E-08	
9	2009	7	2	10	5.00	7860	20.0	95	95	48.65	0.25	31.75	0.55	85.45	0.65	-8.3	6.2E-08	
10	2009	7	2	12	5.00	7200	20.0	95	95	49.00	0.35	32.30	0.55	84.95	0.50	4.8	6.1E-08	
11	2009	7	2	14	6.00	7260	20.0	95	95	49.40	0.40	32.85	0.55	84.40	0.55	0.0	6.4E-08	
12	2009	7	2	15	51.00	6300	20.0	95	95	49.75	0.35	33.30	0.45	84.00	0.40	5.9	5.8E-08	
13	2009	7	6	5	38.00		0.0	95	95	56.55		3.15		98.20				
14	2009	7	6	9	39.00	14460	20.0	95	95	56.90	0.35	4.80	1.65	96.45	1.75	-2.9	5.6E-08	
15	2009	7	6	11	37.00	7080	20.0	95	95	57.15	0.25	5.65	0.85	95.60	0.85	0.0	5.8E-08	
16	2009	7	6	13	38.00	7260	20.0	95	95	57.15	0.00	6.40	0.75	94.80	0.80	-3.2	5.3E-08	
17	2009	7	6	16	30.00	10320	22.0	95	95	58.35	1.20	7.50	1.10	93.80	1.00	4.8	4.9E-08	
18	2009	7	7	5	37.00	47220	20.0	95	95	57.90	-0.45	12.15	4.65	88.80	5.00	-3.6	5.5E-08	1
19	2009	7	7	7	39.00	7320	20.0	95	95	58.35	0.45	12.85	0.70	88.15	0.65	3.7	5.4E-08	1
20	2009	7	7	10	11.00	9120	20.0	95	95	58.40	0.05	13.65	0.80	87.30	0.85	-3.0	5.4E-08	1
21	2009	7	7	11	56.00	6300	20.0	95	95	58.60	0.20	14.20	0.55	86.75	0.55	0.0	5.3E-08	1
22	2009	7	7	13	4.00	4080	20.0	95	95	58.85	0.25	14.55	0.35	86.40	0.35	0.0	5.2E-08	1
23																		
24																		
25																		
26																		

**A zero in this column starts a series of measurements.

*Average Kv for those rows with a 1 in the Ave. column.

5.4E-08 cm/sec

(Termination determined by stable Kv and low flow differential.)

***Kv adjusted for temperature.

RMT, Inc.

Falling Head Permeability Test (ASTM D5084)

QC:

QA:

Project Name:	Sangamo Plant Site	Cell #:	5
Project #:	71238.40	USCS Description:	N/A
Sample Name:	CP-H-02, 4-6'	USCS Classification:	N/A
Visual Descript:	Silty, clayey sand	Average Kv =	1.3E-06 cm/sec

		Initial Values	Final Values			
Sample Type:	Undisturbed					
Sample Dia. (in)		2.87	2.87	Permeant:	Water	
Sample Ht. (in)		2.30	2.30	Permeant Specific Gravity:	1.00	
Tare & Wet (g)		213.70	736.90	Sample Specific Gravity:	2.70	Est.
Tare & Dry (g)		194.98	626.60	Confining Pressure (psi):	100.0	
Tare (g)		117.77	265.94	Burette Diameter (in):	0.250	
Sample Wt. (g)		451.30	470.96	Burette Zero (cm):	100.0	
Moisture (%)		24.2	30.6	Maximum Gradient:	16.6	
Wet Density (pcf)		115.5	120.6	Average Gradient:	8.1	
Dry Density (pcf)		93.0	92.3	Max. Effect. Stress (psi):	6.1	
Saturation (%)		80.7	100.1	Min. Effect. Stress (psi):	4.3	
				Ave. Effect. Stress (psi):	5.0	

	Date			Time		Run	Temp	Pressure (psi)			Cham.		Bot.		Top	Flow	Kv ***	Ave.*
	Yr.	Mo.	Day	Hr.	Min.	Time	C°**	Bot	Top	Cham	Dif.	Bot	Dif.	Top	Dif.	Dif.%	cm/sec	0,1
1	2009	7	1	5	59.00		0.0	95	95	41.65		12.40		96.20				
2	2009	7	1	7	33.00	5640	20.0	95	95	42.20	0.55	28.05	15.65	80.30	15.90	-0.8	1.9E-06	
3	2009	7	1	10	6.00	9180	20.0	95	95	42.60	0.40	41.20	13.15	67.30	13.00	0.6	1.7E-06	
4	2009	7	1	10	8.00		0.0	95	95	43.20		2.15		102.05				
5	2009	7	1	11	10.00	3720	20.0	95	95	43.00	-0.20	14.15	12.00	89.70	12.35	-1.4	1.7E-06	
6	2009	7	1	12	57.00	6420	20.0	95	95	43.40	0.40	27.95	13.80	76.05	13.65	0.5	1.6E-06	
7	2009	7	1	14	10.00	4380	20.0	95	95	43.60	0.20	34.25	6.30	69.85	6.20	0.8	1.5E-06	
8	2009	7	1	15	11.00	3660	20.0	95	95	43.75	0.15	38.25	4.00	65.90	3.95	0.6	1.5E-06	
9	2009	7	2	6	3.00		0.0	95	95	46.30		4.15		98.35				
10	2009	7	2	7	55.00	6720	20.0	95	95	46.50	0.20	21.50	17.35	81.00	17.35	0.0	1.5E-06	
11	2009	7	2	8	50.00	3300	19.0	95	95	46.35	-0.15	27.30	5.80	75.25	5.75	0.4	1.5E-06	
12	2009	7	2	9	51.00	3660	20.0	95	95	46.70	0.35	32.35	5.05	70.25	5.00	0.5	1.4E-06	
13	2009	7	2	10	50.00	3540	20.0	95	95	46.80	0.10	36.25	3.90	66.40	3.85	0.6	1.4E-06	
14	2009	7	2	12	6.00	4560	20.0	95	95	47.10	0.30	40.10	3.85	62.60	3.80	0.7	1.4E-06	
15	2009	7	2	13	48.00	6120	20.0	95	95	47.45	0.35	43.80	3.70	58.90	3.70	0.0	1.4E-06	
16	2009	7	6	5	39.00		0.0	95	95	54.40		2.90		99.90				
17	2009	7	6	7	10.00	5460	20.0	95	95	54.60	0.20	16.55	13.65	86.00	13.90	-0.9	1.4E-06	
18	2009	7	6	9	34.00	8640	20.0	95	95	54.55	-0.05	30.50	13.95	72.25	13.75	0.7	1.3E-06	
19	2009	7	6	10	27.00	3180	20.0	95	95	54.70	0.15	33.95	3.45	68.75	3.50	-0.7	1.3E-06	
20	2009	7	6	11	28.00	3660	20.0	95	95	54.70	0.00	37.30	3.35	65.45	3.30	0.8	1.3E-06	1
21	2009	7	6	12	54.00	5160	20.0	95	95	54.70	0.00	40.95	3.65	61.90	3.55	1.4	1.3E-06	1
22	2009	7	6	14	28.00	5640	20.0	95	95	55.15	0.45	43.90	2.95	58.90	3.00	-0.8	1.3E-06	1
23	2009	7	6	14	35.00		0.0	95	95	24.90		7.95		99.55				
24	2009	7	6	16	31.00	6960	22.0	95	95	25.70	0.80	22.90	14.95	84.80	14.75	0.7	1.2E-06	1
25	2009	7	7	5	39.00		0.0	95	95	25.40		3.65		100.70				
26	2009	7	7	6	40.00	3660	20.0	95	95	24.40	-1.00	12.65	9.00	91.30	9.40	-2.2	1.3E-06	1
																	1.3E-06	cm/sec

**A zero in this column starts a series of measurements.

*Average Kv for those rows with a 1 in the Ave. column.

(Termination determined by stable Kv and low flow differential.)

***Kv adjusted for temperature.

RMT, Inc.

Falling Head Permeability Test (ASTM D5084)

QC: VE

QA: [illegible]

Project Name:	Sangamo Plant Site		Cell #:		6
Project #:	71238.40		USCS Description:		N/A
Sample Name:	CP-H-02, 10.5-12.5'		USCS Classification:		N/A
Visual Descript:	Silty clay with sand		Average Kv =	4.8E-07	cm/sec

Sample Type:	Undisturbed	Initial Values	Final Values			
Sample Dia. (in)		2.85	2.85	Permeant:	Water	
Sample Ht. (in)		2.29	2.29	Permeant Specific Gravity:	1.00	
Tare & Wet (g)		455.10	720.10	Sample Specific Gravity:	2.61	Est.
Tare & Dry (g)		360.03	618.70	Confining Pressure (psi):	100.0	
Tare (g)		0.00	258.67	Burette Diameter (in):	0.250	
Sample Wt. (g)		455.10	461.43	Burette Zero (cm):	100.0	
Moisture (%)		26.4	28.2	Maximum Gradient:	16.5	
Wet Density (pcf)		118.7	120.3	Average Gradient:	12.6	
Dry Density (pcf)		93.9	93.9	Max. Effect. Stress (psi):	5.8	
Saturation (%)		93.8	100.1	Min. Effect. Stress (psi):	4.2	
				Ave. Effect. Stress (psi):	5.0	

	Date			Time		Run	Temp	Pressure (psi)			Cham.		Bot.		Top	Flow	Kv ***	Ave.*
	Yr.	Mo.	Day	Hr.	Min.	Time	C**	Bot	Top	Cham	Dif.	Bot	Dif.	Top	Dif.	Dif.%	cm/sec	0,1
1	2009	7	1	6	0.00		0.0	95	95	44.85		15.85		97.75				
2	2009	7	1	7	34.00	5640	20.0	95	95	45.60	0.75	20.85	5.00	92.80	4.95	0.5	5.1E-07	
3	2009	7	1	10	6.00	9120	20.0	95	95	46.10	0.50	27.65	6.80	86.40	6.40	3.0	5.0E-07	
4	2009	7	1	12	58.00	10320	20.0	95	95	46.50	0.40	33.75	6.10	82.60	3.80	23.2	4.0E-07	
5	2009	7	1	14	11.00	4380	20.0	95	95	46.80	0.30	35.90	2.15	78.50	4.10	-31.2	7.0E-07	
6	2009	7	1	15	12.00	3660	20.0	95	95	46.95	0.15	37.60	1.70	76.95	1.55	4.6	4.9E-07	
7	2009	7	2	6	3.00		0.0	95	95	49.20		4.35		100.35				
8	2009	7	2	7	57.00	6840	20.0	95	95	49.60	0.40	11.45	7.10	93.65	6.70	2.9	5.1E-07	
9	2009	7	2	8	52.00	3300	19.0	95	95	49.40	-0.20	14.45	3.00	90.85	2.80	3.4	5.1E-07	
10	2009	7	2	9	53.00	3660	20.0	95	95	49.80	0.40	17.15	2.70	87.95	2.90	-3.6	4.7E-07	
11	2009	7	2	10	51.00	3480	20.0	95	95	50.10	0.30	20.10	2.95	85.40	2.55	7.3	5.2E-07	
12	2009	7	2	12	7.00	4560	20.0	95	95	50.35	0.25	23.20	3.10	82.35	3.05	0.8	4.9E-07	
13	2009	7	2	13	49.00	6120	20.0	95	95	50.75	0.40	27.05	3.85	78.70	3.65	2.7	5.0E-07	
14	2009	7	2	15	52.00	7380	20.0	95	95	51.00	0.25	31.00	3.95	75.00	3.70	3.3	4.9E-07	
15	2009	7	6	5	39.00		0.0	95	95	56.60		3.50		100.40				
16	2009	7	6	9	35.00	14160	20.0	95	95	56.90	0.30	16.40	12.90	88.15	12.25	2.6	4.7E-07	
17	2009	7	6	11	38.00	7380	20.0	95	95	57.20	0.30	21.65	5.25	83.10	5.05	1.9	4.7E-07	
18	2009	7	6	12	55.00	4620	20.0	95	95	57.15	-0.05	24.55	2.90	80.35	2.75	2.7	4.7E-07	
19	2009	7	6	14	29.00	5640	20.0	95	95	57.55	0.40	27.80	3.25	77.25	3.10	2.4	4.8E-07	
20	2009	7	6	16	32.00	7380	22.0	95	95	58.55	1.00	31.50	3.70	73.90	3.35	5.0	4.4E-07	
21	2009	7	7	5	40.00		0.0	95	95	57.75		3.70		99.95				
22	2009	7	7	7	49.00	7740	20.0	95	95	58.15	0.40	11.20	7.50	92.50	7.45	0.3	4.9E-07	1
23	2009	7	7	10	12.00	8580	20.0	95	95	58.20	0.05	18.15	6.95	85.90	6.60	2.6	4.8E-07	1
24	2009	7	7	11	30.00	4680	20.0	95	95	58.35	0.15	21.45	3.30	82.80	3.10	3.1	4.7E-07	1
25	2009	7	7	13	3.00	5580	20.0	95	95	58.65	0.30	24.90	3.45	79.40	3.40	0.7	4.7E-07	1
26																		

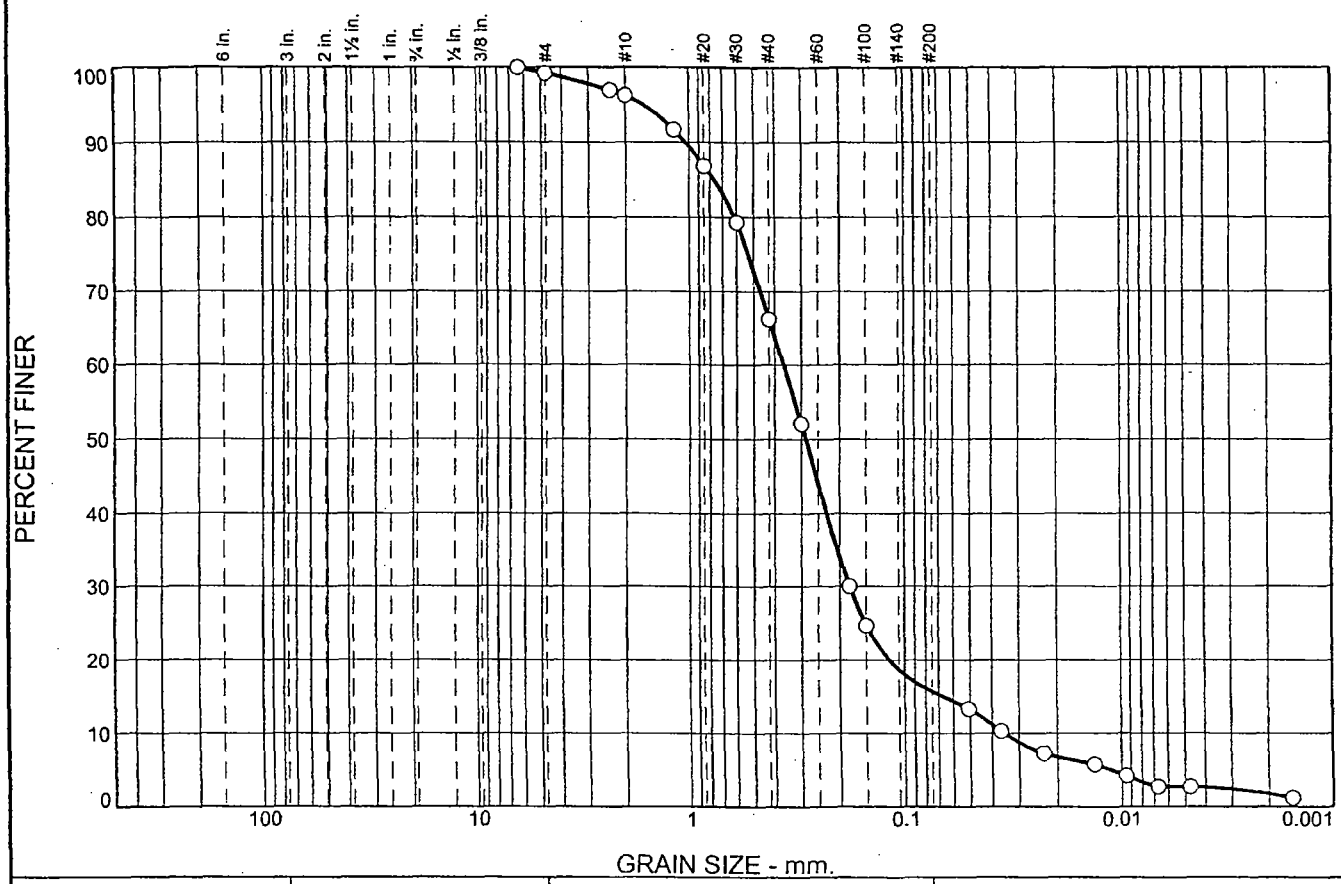
**A zero in this column starts a series of measurements.

(Termination determined by stable Kv and low flow differential.)

*Average Kv for those rows with a 1 in the Ave. column. 4.8E-07 cm/sec

***Kv adjusted for temperature.

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	0.8	3.0	30.0	50.5	13.0	2.7

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
.25	100.0		
#4	99.2		
#8	96.9		
#10	96.2		
#16	91.7		
#20	86.8		
#30	79.3		
#40	66.2		
#50	52.1		
#80	30.0		
#100	24.7		

* (no specification provided)

Material Description

Silty sand

Atterberg Limits

PL= 43 LL= 55 PI= 12

Coefficients

D_{90}= 1.0424 D_{85}= 0.7642 D_{60}= 0.3636
D_{50}= 0.2861 D_{30}= 0.1800 D_{15}= 0.0668
D_{10}= 0.0351 C_u= 10.35 C_c= 2.54

Classification

USCS= SM AASHTO= A-2-7(0)

Remarks

Source of Sample: CP-H-02
Sample Number: CP-H-02, 5-6'

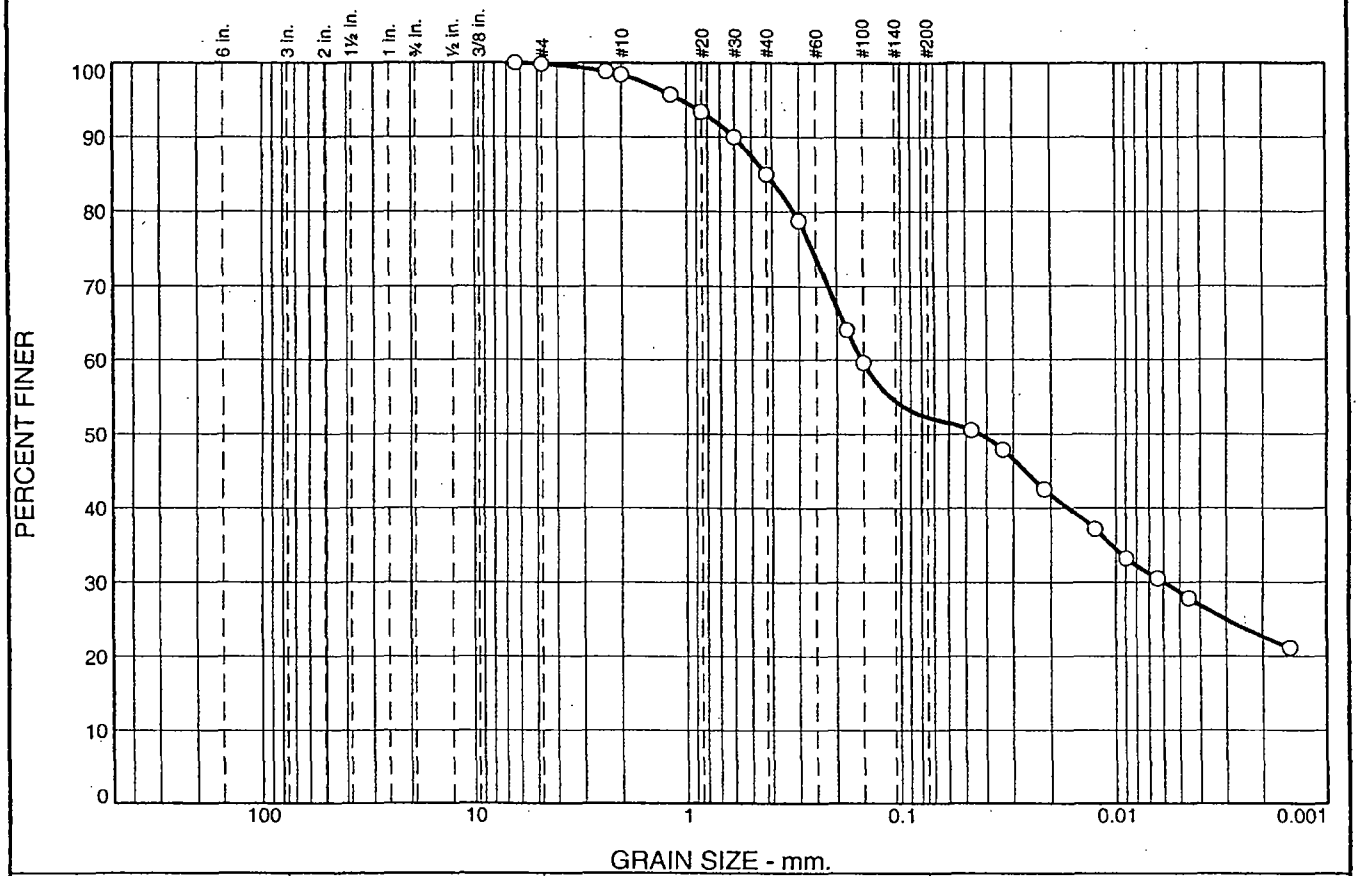
Date: 07-08-09

RMT, Inc.

Madison, Wisconsin

Client:
Project: Sangamo Plant Site
Project No: 71238.40
Figure:

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	0.2	1.4	13.4	32.7	23.7	28.6

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
.25	100.0		
#4	99.8		
#8	98.9		
#10	98.4		
#16	95.7		
#20	93.4		
#30	90.0		
#40	85.0		
#50	78.7		
#80	64.1		
#100	59.6		

* (no specification provided)

Material Description

Sandy silt

Atterberg Limits

PL= NP LL= NV PI= NP

Coefficients

D_{90}= 0.5993 D_{85}= 0.4257 D_{60}= 0.1526
D_{50}= 0.0429 D_{30}= 0.0060 D_{15}=
D_{10}= C_u= C_c=

Classification

USCS= ML AASHTO= A-4(0)

Remarks

Source of Sample: CP-H-03
Sample Number: CP-H-03, 13.3-15'

Date: 07-08-09

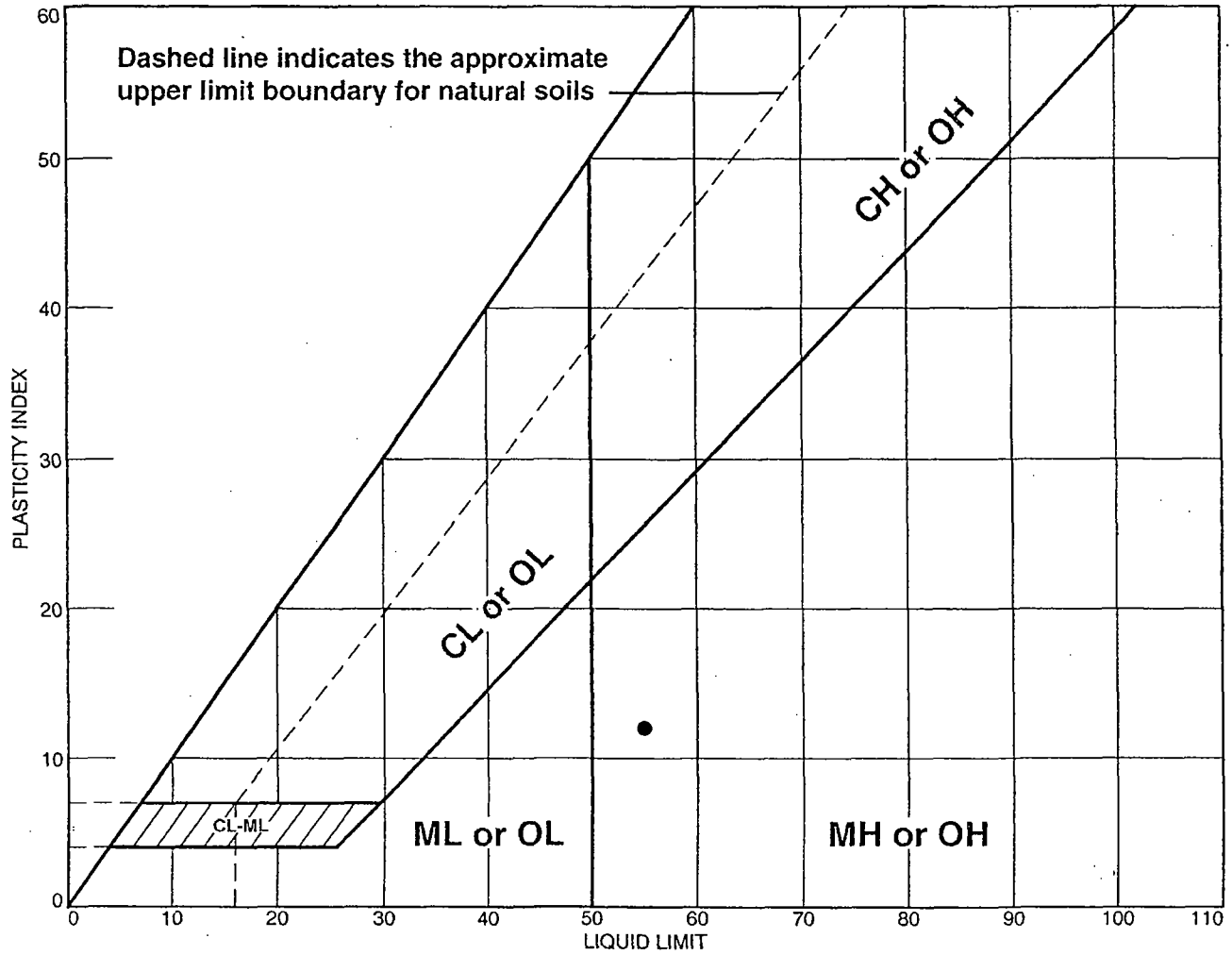
RMT, Inc.

Madison, Wisconsin

Client:
Project: Sangamo Plant Site

Project No: 71238.40 **Figure:**

LIQUID AND PLASTIC LIMITS TEST REPORT



	MATERIAL DESCRIPTION	LL	PL	PI	%<#40	%<#200	USCS
●	Silty sand	55	43	12	66.2	15.7	SM
■	Sandy silt	NV	NP	NP	85.0	52.3	ML

Project No. 71238.40 **Client:**

Project: Sangamo Plant Site

● **Source of Sample:** CP-H-02 **Sample Number:** CP-H-02, 5-6'

■ **Source of Sample:** CP-H-03 **Sample Number:** CP-H-03, 13.3-15'

RMT, Inc.

Madison, Wisconsin

Remarks:

Figure:

RMT Soils Laboratory

Tube Extrusion Form

QC:

QA:

Project Name: Sangamo Plant Site Sample Name: CP-H-02, 2-4'

Project #: 71238.40 Length (in) 30 Diameter (in): 3.00 Type: Shelby Tube

In.	Analysis	Depth(El)	Pp/Tv(tsf)	Fractures (x)	Visual Description
0		Top			
1					Lean clay with sand, red, stiff to medium stiff, low plasticity,
2					moist.
3					"
4	k			x	"
5					"
6					"
7					"
8					"
9					"
10					"
11					"
12					Silty sand, reddish yellow, soft to very soft, nonplastic, moist.
13				x	"
14					"
15					"
16					"
17					"
18					Lean clay with sand, red, stiff to medium stiff, low plasticity,
19					moist.
20					"
21					"
22					"
23					"
24		Bottom			
25					
26					
27					
28					
29					
30					
31					
32					
33					
34					
35					
36					

Analysis Codes:

Moisture(M), Density(D), Specific Gravity(Gs), (P200), Sieve(S), Grainsize(GS), Consolidation(CON), Atterberg Limits(AL), Shrinkage Limit(SL), Organic Content(O), Proctor(P), Permeability(k), Unconfined Compressive Strength(Qu), Triaxial Compression(Tx), Direct Shear(DS)

RMT Soils Laboratory

Tube Extrusion Form

QC:

QA:

Project Name: Sangamo Plant Site Sample Name: CP-H-02, 4-6'

Project #: 71238.40 Length (in) 30 Diameter (in): 3.00 Type: Shelby Tube

In.	Analysis	Depth(El)	Pp/Tv(tsf)	Fractures (x)	Visual Description
0		Top			
1					Silty, clayey sand, red, medium stiff, low to medium
2					plasticity, moist.
3					"
4					"
5					"
6					Silty, clayey sand, reddish yellow, medium stiff to stiff,
7					low to medium plasticity, moist.
8					"
9					"
10					"
11					"
12					"
13					Silty, clayey sand, red, stiff, low to medium plasticity, moist.
14					"
15					"
16					"
17					"
18	k				"
19					"
20					"
21					"
22		Bottom			
23					
24					
25					
26					
27					
28					
29					
30					
31					
32					
33					
34					
35					
36					

Analysis Codes:

Moisture(M), Density(D), Specific Gravity(Gs), (P200), Sieve(S), Grainsize(GS), Consolidation(CON), Atterberg Limits(AL), Shrinkage Limit(SL), Organic Content(O), Proctor(P), Permeability(k), Unconfined Compressive Strength(Qu), Triaxial Compression(Tx), Direct Shear(DS)

RMT Soils Laboratory

Tube Extrusion Form

QC:

QA:

Project Name: Sangamo Plant Site Sample Name: CP-H-02, 10.5-12.5'

Project #: 71238.40 Length (in) 30 Diameter (in): 3.00 Type: Shelby Tube

In.	Analysis	Depth(El)	Pp/Tv(tsf)	Fractures (x)	Visual Description
0		Top			
1					Silty clay with sand, red, medium stiff, low to medium
2					plasticity, moist.
3					"
4	k				"
5					"
6					"
7					"
8					Silty sand, yellowish brown, medium dense, low
9					plasticity, moist.
10					"
11					"
12					"
13					"
14					"
15					"
16					"
17					"
18					"
19					"
20					"
21					"
22		Bottom			
23					
24					
25					
26					
27					
28					
29					
30					
31					
32					
33					
34					
35					
36					

Analysis Codes:

Moisture(M), Density(D), Specific Gravity(Gs), (P200), Sieve(S), Grainsize(GS), Consolidation(CON), Atterberg Limits(AL), Shrinkage Limit(SL), Organic Content(O), Proctor(P), Permeability(k), Unconfined Compressive Strength(Qu), Triaxial Compression(Tx), Direct Shear(DS)

Appendix D
Boring Logs

SOIL BORING LOG

RMT

BORING NO. CP-D-01

Client:		Drilling Start Date:	Drilling End Date:	Page of
Schlumberger		6-17-09	6-17-09	1 2
Site:		Drilling Method:		Project Number:
Plant Site, Pickens, SC		DPT		71238.40
Geologist/Technician:	Driller (name/company):	Drill Rig Type:		Borehole Diameter (in.):
Lisa Clark	Gary Ellingworth Parratt-Wolff	Ingersoll Rand IR-300		1.5 in
Boring Coordinates:	Total Depth (ft.):	Measuring Point Elevation (ft.):		
N: E:	24.50			
Datum Description:	Datum Elevation (ft.):	Checked by:		

Sample Interval	% Recovery	Sample Type	Blow Counts	PID (ppm)	Depth (feet)	Stratigraphy	LITHOLOGIC DESCRIPTION
	100	MC		0	0		Silty Sand (SM) - fine grained; grey; slightly moist; roots.
					1		Sandy Clay (CL) - reddish brown with road gravel (fill).
							Sandy Clay (CL) - brick; slightly moist; some roots (may be fill).
					2		
					3		
	84	MC		0	4		Silty Sand (SM) - fine to coarse with rock fragments; rust and brown changing to brick at 4.9 feet; some clayey zones; no mica.
					5		
					6		Sandy Clay (CL) - very fine grained; brick; micaeous; homogeneous; slightly moist.
					7		Sandy Silt (ML) - fine to very fine grained; maroon and rust; mottled; slightly moist; micaeous; coarse sand layer at 6.5 feet (may be fill).
	88	MC		0	8		Sandy Silt to Silty Sand (ML/SM) - very fine grained; brick and orange; homogeneous; slightly moist; micaeous.
					9		Sandy Silt to Silty Sand (ML/SM) - fine to very fine grained; maroon, brick, orange, yellow, little black; indistinct layering to mottled; micaeous; trace quartz rock fragments.
					10		
					11		Hornblende Gneiss
	75	MC		0	12		Sandy Silt to Silty Sand (ML/SM) - very fine grained; maroon, black, rust, little white; laminated to mottled; slightly moist; micaeous; 1 inch quartzite layer at 13 feet.
					13		Silty Sand with Gravel (SM) - fine grained sand with abundant rock fragments; maroon, rust, black, gold; layered; micaeous.
					14		Hornblende Gneiss - weathered.
							Silty to Clayey Fine Sand (ML) - rust, orange, black, gold, some pink; micaeous.
					15		
	75	MC		0 - <1	16		Silty Sand with Gravel (SM) - fine grained sand with abundant rock fragments; pink, rust, gold, grey, lt. orange, little black; layered; slightly moist; micaeous.
					17		Hornblende Gneiss
					18		Sandy Silt to Silty Sand (ML/SM) - very fine grained with trace rock fragments; rust, maroon, black; mottled; slightly moist; micaeous.
					19		

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SOIL BORING LOG

RMT

BORING NO. CP-D-01

Client:		Drilling Start Date:	Drilling End Date:	Page of
Schlumberger		6-17-09	6-17-09	2 2
Site:		Drilling Method:		Project Number:
Plant Site, Pickens, SC		DPT		71238.40
Geologist/Technician:	Driller (name/company):	Drill Rig Type:		Borehole Diameter (in.):
Lisa Clark	Gary Ellingworth Parratt-Wolff	Ingersoll Rand IR-300		1.5 in
Boring Coordinates: N: E:	Total Depth (ft.): 24.50	Measuring Point Elevation (ft.):		
Datum Description:	Datum Elevation (ft.):	Checked by:		

Sample Interval	% Recovery	Sample Type	Blow Counts	PID (ppm)	Depth (feet)	Stratigraphy	LITHOLOGIC DESCRIPTION
	82	MC		0	21		Hornblende Gneiss
							Sandy Silt (ML) - very fine grained; brick, rust, black; mottled; micaeous.
							Silty Sand with Gravel (SM) - white, tan and rust; abundant rock fragments containing quartz and feldspar with little mica (weathered gneiss).
					22		Hornblende Gneiss
							Silty Sand with Gravel (SM) - abundant rock fragments; little clay; maroon, rust, yellow, grey; layered, micaeous (highly weathered gneiss).
					23		
					24		Sandy Silt to Silty Sand (ML/SM) - very fine grained; maroon, black, little rust; mottled; micaeous.
							DPT Refusal @ 24.5 feet
					25		
					26		
					27		
					28		
					29		
					30		
					31		
					32		
					33		
					34		
					35		
					36		
					37		
					38		
					39		

SOIL BORING LOG

RMT

BORING NO. CP-D-02

Client:		Drilling Start Date:	Drilling End Date:	Page of
Schlumberger		6-17-09	6-18-09	1 3
Site:		Drilling Method:		Project Number:
Plant Site, Pickens, SC		DPT		71238.40
Geologist/Technician:	Driller (name/company):	Drill Rig Type:		Borehole Diameter (in.):
Lisa Clark	Gary Ellingworth Parratt-Wolff	Ingersoll Rand IR-300		1.5 in.
Boring Coordinates: N: E:	Total Depth (ft.): 55.00	Measuring Point Elevation (ft.):		
Datum Description:	Datum Elevation (ft.):	Checked by:		

Sample Interval	% Recovery	Sample Type	Blow Counts	PID (ppm)	Depth (feet)	Stratigraphy	LITHOLOGIC DESCRIPTION
	100	MC		0 - 2.7	0		Sandy Clay (CL) - brownish-brick; micaeous; roots (fill).
					1		Road Gravel (fill).
							Silty Sand with Gravel (SM) - dark brown (probably fill).
					2		Sandy Clay (CL) - fine grained; brick red; little mica; little rock; mesh fabric at 1.75 feet (fill).
					3		
	50	MC		<2	4		Sandy Clay (CL) - fine grained; trace gravel; brick and orange; slightly moist; trace fibrous material (fill).
					5		
					6		
					7		
	100	MC		<1	8		
					9		
					10		
					11		Sandy Silt to Silty Sand (ML/SM) - very fine grained; pink, yellow, grading to maroon; mottled; slightly moist; some mica.
	88	MC		<1	12		Silty to Clayey Sand (SM/SC) - fine to very fine grained; white, orange, pink, gold; mottled; some mica (may be weathered granite).
					13		
					14		Silty Sand (SM) - very fine grained; little clay; orange, white, gold, black, maroon; mottled; slightly moist; some mica (may be weathered granite).
					15		Silt to Silty Sand (ML/SM) - very fine grained; maroon, orange, brown; mottled; slightly moist; micaeous.
	75	MC		0	16		Sandy Silt (ML) - brick; micaeous.
					17		
					18		
					19		

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SOIL BORING LOG

RMT

BORING NO. CP-D-02

Client:		Drilling Start Date:	Drilling End Date:	Page of
Schlumberger		6-17-09	6-18-09	2 3
Site:		Drilling Method:		Project Number:
Plant Site, Pickens, SC		DPT		71238.40
Geologist/Technician:	Driller (name/company):	Drill Rig Type:		Borehole Diameter (in.):
Lisa Clark	Gary Ellingworth Parratt-Wolff	Ingersoll Rand IR-300		1.5 in.
Boring Coordinates:	Total Depth (ft.):	Measuring Point Elevation (ft.):		
N: E:	55.00			
Datum Description:	Datum Elevation (ft.):	Checked by:		

Sample Interval	% Recovery	Sample Type	Blow Counts	PID (ppm)	Depth (feet)	Stratigraphy	LITHOLOGIC DESCRIPTION
	71	MC		<1	21		Silty Sand (SM) - fine to coarse grained; little clay; brick; little mica.
					22		Sandy Silt to Silty Sand (ML/SM) - very fine grained; maroon; little white, little black; layered; micaeous.
					23		Sandy Silt to Silty Sand (ML/SM) - very fine grained; rust with little white and black; layered; no obvious mica.
							- as above, color changing to maroon.
							Hornblend Gneiss - rust and black.
	81	MC		<1	24		Silty Sand to Sandy Silt (SM/ML) - very fine grained; maroon, gold, black; mottled; slightly moist; very micaeous.
					25		Silty Sand with Gravel (SM) - fine grained; rust with little maroon, white and black; indistinct mottling; some mica, rock fragments (weathered gneiss).
					26		
					27		Hornblend Gneiss - weathered.
							Silty Sand with Gravel (SM) - fine grained; rust; some mica; rock fragments (weathered gneiss).
	83	MC		0	28		Silty Sand (SM) - very fine grained; rust and yellow with black mottling; slightly moist; micaeous.
					29		Sandy Silt to Silty Sand (ML/SM) - fine to very fine grained; maroon, black, gold; mottled; slightly moist; micaeous.
					30		
					31		Silty Sand (SM) - fine to very fine grained; little clay; rust with some white and black; slightly moist (weathered gneiss).
	79	MC		<1	32		Silty Sand to Sandy Silt (SM/ML) - very fine grained; black, white, gold; mottled; slightly moist; micaeous (may be weathered granitic gneiss).
					33		Silty Sand (SM) - fine to very fine grained; rust, yellow, black, white; mottled; slightly moist; little mica.
					34		Sandy Silt to Silty Sand (ML/SM) - very fine grained; some to little clay; maroon, white, black, rust; mottled; slightly moist; little mica.
					35		
	75	MC		0	36		Sandy Silt (ML) - some clay; fine to very fine grained; maroon, white, black, gold; layered; slightly moist; micaeous.
					37		
							Granitic Gneiss - predominately feldspar with quartz and mica.
					38		Silty Sand (SM) - little clay; gold, maroon, pink, white; indistinct layering; slightly moist; micaeous.
					39		Silty Sand (SM) - little clay; white with little tan and gold; quartz, feldspar, muscovite (may be weathered granitic gneiss).
							Silty Sand to Sandy Silt (SM/ML) - fine to very fine grained; brick, rust, black, tan, white, little

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BORING NO. CP-D-02

Client:		Drilling Start Date:	Drilling End Date:	Page of
Schlumberger		6-17-09	6-18-09	3 3
Site:		Drilling Method:		Project Number:
Plant Site, Pickens, SC		DPT		71238.40
Geologist/Technician:	Driller (name/company):	Drill Rig Type:		Borehole Diameter (in.):
Lisa Clark	Gary Ellingworth Parratt-Wolff	Ingersoll Rand IR-300		1.5 in.
Boring Coordinates: N: E:	Total Depth (ft.): 55.00	Measuring Point Elevation (ft.):		
Datum Description:	Datum Elevation (ft.):	Checked by:		

Sample Interval	% Recovery	Sample Type	Blow Counts	PID (ppm)	Depth (feet)	Stratigraphy	LITHOLOGIC DESCRIPTION
	71	MC		<1	41		pink; layered; slightly moist; some mica.
					42		
					43		Sandy Silt (ML) - very fine grained; gold, black, rust; mottled; slightly moist; very micaeous (weathered schist).
	88	MC		<1	44		Silty Sand to Sand Silt (SM/ML) - fine to very fine grained; gold, white, rust, brick, black; indistinct layering; slightly moist; very micaeous (may be weathered schist).
					45		- as above, less mica.
							Silty to Sandy Clay with Gravel (CL) - brick, orange, black; layered; rock fragments (weathered hornblende gneiss).
					46		Hornblende Gneiss
							Silty to Sandy Clay (CL) - brick, gold, brown; indistinct layering; slightly moist; some mica.
					47		Hornblende Gneiss
							Silty Sand (SM) - very fine grained; tan, rust, gold, black; layered; micaeous.
	0	MC			48		Silty Sand (SM) - fine grained; some clay; tan, rust, white, black; indistinct layering; slightly moist; some to little mica.
					49		Silty Sand with Gravel (SM) - brick, rust, black (weathered hornblende gneiss).
							Gneiss - black and white.
					50		Silty Sand to Sandy Silt (SM/ML) - very fine grained; black, brick, orange, gold; mottled; very micaeous.
					51		Clayey Silt (MH) - rust, black, brick; mottled; no obvious mica.
							Silty to Clayey Sand with Gravel (SM/SC) - white, orange, brick; layered; some mica (weathered gneiss).
	100	MC		<2	52		Sandy Clay (CL) - very fine grained; white to orange to brick, some grey; layered; some mica.
					53		Silty Sand with Gravel (SM) - fine to coarse; little clay; white, tan, orange, gold; mottled; some mica (weathered granitic gneiss).
					54		Silty Sand with Gravel (SM) - very fine to coarse; clayey; rust, black, orange; mottled.
					55		Silty Sand (SM) - fine grained; some clay; orange, gold, white and grey, changing to black, white and gold; micaeous.
					56		**DPT Refusal at 55 feet**
					57		
					58		
					59		

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SOIL BORING LOG

RMT

BORING NO. CP-D-03

Client:		Drilling Start Date:	Drilling End Date:	Page of
Schlumberger		6-18-09	6-19-09	1 4
Site:		Drilling Method:		Project Number:
Plant Site, Pickens, SC		DPT		71238.40
Geologist/Technician:	Driller (name/company):	Drill Rig Type:		Borehole Diameter (in.):
Lisa Clark	Gary Ellingworth Parratt-Wolff	Ingersoll Rand IR-300		1.5 in.
Boring Coordinates:	Total Depth (ft.):	Measuring Point Elevation (ft.):		
N: E:	64.00			
Datum Description:	Datum Elevation (ft.):	Checked by:		

Sample Interval	% Recovery	Sample Type	Blow Counts	PID (ppm)	Depth (feet)	Stratigraphy	LITHOLOGIC DESCRIPTION
	100	MC		0	0		Sandy Clay and Gravel Fill - brick; micaeous; roots.
					1		Silty Sand with Gravel (SM) - clayey; dark brown and brick; alternating layers; dry (fill).
					2		
					3		
	96	MC		0.1 - 2.3	4		
					5		
					6		
					7		
					8		Silty to Clayey Sand (ML) - fine grained; maroon and white with little black; mottled; some mica (saprolite).
	90	MC		<2	9		Silty Sand (SM) - fine grained; rust, yellow, maroon, black; layered to mottled; micaeous.
					10		Silty Sand (SM) - little clay; fine to very fine grained; rust, orange, black, little maroon; micaeous, few quartzose rock fragments.
					11		Sandy Silt (ML) - little clay; fine to very fine grained; white, rust, black, little maroon; mottled; slightly moist (weathered granitic gneiss).
	94	MC		0.5 - 2.6	12		Weathered Granitic Gneiss
					13		Sandy Silt to Silty Sand (ML/SM) - very fine grained; maroon, white, rust, brown; indistinct mottling; micaeous.
					14		Silty to Clayey Sand (ML) - very fine grained; rust, white, and black grading to maroon; mottled; mica in maroon-colored sands only.
					15		Weathered Gneiss
					16		Silty to Clayey Sand (ML) - fine to very fine grained; rust grading to maroon, white and black; layered to mottled.
	88	MC		0.1 - 3.7	17		Silty Sand to Sandy Silt (SM/ML) - black, rust, orange, little maroon; some mica.
					18		Silty Sand with Gravel (SM) - rust, orange, white, little maroon; rock fragments (weathered gneiss).
					19		Clayey Sand with Gravel (SC) - rust, orange, yellow, black; indistinct layering.
							Silty Sand to Sandy Silt (SM/ML) - some clay; very fine grained; maroon, white, tan, balk; layered to mottled; micaeous.
							Silty Sand with Gravel (SM) - rust, little white, little black; layered to mottled.
							Silty Sand (SM) - fine grained; some clay; black, maroon, rust, yellow; indistinct layers and mottles; some mica.

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BORING NO. CP-D-03

Client:		Drilling Start Date:	Drilling End Date:	Page of
Schlumberger		6-18-09	6-19-09	2 4
Site:		Drilling Method:		Project Number:
Plant Site, Pickens, SC		DPT		71238.40
Geologist/Technician:	Driller (name/company):	Drill Rig Type:		Borehole Diameter (in.):
Lisa Clark	Gary Ellingworth Parratt-Wolff	Ingersoll Rand IR-300		1.5 in.
Boring Coordinates: N: E:	Total Depth (ft.): 64.00	Measuring Point Elevation (ft.):		
Datum Description:	Datum Elevation (ft.):	Checked by:		

Sample Interval	% Recovery	Sample Type	Blow Counts	PID (ppm)	Depth (feet)	Stratigraphy	LITHOLOGIC DESCRIPTION
	88	MC		<2	21		Silty Sand (SM) - fine grained; maroon, little tan, little black; steeply bedded (approx. 40 degrees); black mica layer at 19 feet.
							Silty Sand (SM) - some clay; very fine to medium grained; white, little pink; steeply bedded (approx. 40 degrees); trace to little mica (weathered granitic gneiss).
					22		Silty Sand to Sandy Silt (SM/ML) - very fine grained; black, brown, gold, little maroon, little tan; micaceous.
					23		Sandy Silt to Silty Sand (ML/SM) - some clay; rust, maroon, black, orange; layered (10 to 15 degree angled beds); micaceous.
	96	MC		<2	24		Silty Sand with Gravel (SM) - some clay; fine to medium grained; rust, yellow, white; indistinct layering; slightly moist; rock fragments (weathered gneiss).
					25		Silty to Sandy Clay (CL) - very fine grained; pink, little rust, little black; indistinct mottling; slightly moist; micaceous.
							Silty Sand with Gravel (SM) - some clay; rust, white; mottled; slightly moist (saprolite).
					26		Silty Sand to Sandy Silt (SM/ML) - very fine grained; maroon, white, black, gold; indistinct layering; micaceous.
					27		Weathered Gneiss - rust, yellow and black.
							Silty to Clayey Sand (ML) - fine grained; white, rust, brick, black, brown, little pink; mottled; some mica.
	85	MC		<1	28		Silty to Clayey Sand (ML) - fine grained; white, maroon, little rust; mottled; trace mica.
							Silty Sand (SM) - some clay; fine to very fine grained; white, orange and rust with black mottling.
					29		Silty Sand to Sandy Silt (SM/ML) - very fine grained; maroon, white, gold, black, some rust; indistinct layering; micaceous.
					30		
					31		
					32		
	82	MC		<1	33		Sandy Silt (ML) - little clay; very fine grained; maroon, pink, white, little gold; indistinct layering; few mottles; some mica; highly micaceous layer from 32.3 to 32.6 feet (may be weathered granitic gneiss).
					34		
					35		
					36		
	75	MC		<1	37		Silty Sand with Clay (SM) - fine to medium grained; white, pink, gold; indistinct layering; abundant quartz and feldspar, some mica (weathered granitic gneiss).
					38		Silt to Very Fine Sand (ML) - some clay; gold, brown, pink, white, black; layered; very micaceous with large mica crystals (weathered schist).
					39		Silty Sand to Sandy Silt (SM/ML) - very fine grained; trace to little clay; rust, black, white; layered; micaceous.

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RMT

BORING NO. CP-D-03

Client:		Drilling Start Date:	Drilling End Date:	Page of
Schlumberger		6-18-09	6-19-09	3 4
Site:		Drilling Method:		Project Number:
Plant Site, Pickens, SC		DPT		71238.40
Geologist/Technician:	Driller (name/company):	Drill Rig Type:		Borehole Diameter (in.):
Lisa Clark	Gary Ellingworth Parratt-Wolff	Ingersoll Rand IR-300		1.5 in.
Boring Coordinates:	Total Depth (ft.):	Measuring Point Elevation (ft.):		
N: E:	64.00			
Datum Description:	Datum Elevation (ft.):	Checked by:		

Sample Interval	% Recovery	Sample Type	Blow Counts	PID (ppm)	Depth (feet)	Stratigraphy	LITHOLOGIC DESCRIPTION
	63	MC		0 - 1	41		Sandy Silt to Silty Very Fine Sand (ML) - rust, brown, gold, little maroon and black; indistinct mottling and layering; micaeous.
							Sandy Silt to Silty Very Fine Sand (ML) - maroon, little gold and black; layered to mottled; very micaeous; large mica crystals in black layers (weathered schist).
					42		Silty to Clayey Sand (SM/SC) - fine to very fine grained; white, pink, little gold; mottled (weathered granite or granitic gneiss).
					43		
	83	MC		0.4 - 1	44		Silty to Clayey Sand (SM/SC) - fine grained; rust, yellow, orange, black; mottled; trace to little mica.
					45		Gneiss - black and white, finely granular.
					46		Silty Sand with Gravel (SM) - some clay; rust, orange, tan, black, gold; indistinct layering; micaeous (weathered gneiss).
					47		Silty Sand to Sandy Silt (SM/ML) - fine to very fine grained; black, gold, white, pink, rust; layered; micaeous.
	67	MC		<2	48		Silty Clay (CL) - pink, gold, little tan; micaeous.
					49		Silty Sand (ML) - very fine grained; rust, brick, tan, black, gold; layered; slightly moist; micaeous.
					50		Silty Sand with Clay (SM/SC) - fine to very fine grained; rust and black; layered to mottled; some mica.
					51		Silty Sand with Clay (SM/SC) - fine grained; white, pink, gold; layered; slightly moist; micaeous.
	69	MC		<1	52		Silty Sand with Gravel (SM) - little clay; rust, tan, little white, some yellow (weathered gneiss).
					53		Silty Sand to Sandy Silt (SM/ML) - rust, tan, gold; layered to mottled; slightly moist; micaeous.
							Silty Sand with Gravel (SM) - little clay; rust, tan, little white, some yellow (weathered gneiss).
					54		Silty Sand to Sandy Silt (SM/ML) - rust, tan, gold; layered to mottled; slightly moist; micaeous.
							Silty Sand with Gravel (SM) - little clay; rust, tan, little white, some yellow (weathered gneiss).
					55		Silty Sand to Sandy Silt (SM/ML) - rust, tan, gold; layered to mottled; slightly moist; micaeous.
							Silty Sand with Gravel (SM) - little clay; rust, tan, little white, some yellow (weathered gneiss).
					56		Silty Sand (SM) - fine to very fine grained; trace clay; yellow, rust, orange; layered; moist to wet.
	81	MC		<1			Silty Sand with Gravel (SM) - little clay; rust, tan, little white, some yellow (weathered gneiss).
					57		Silty Sand with Clay (SM/SC) - fine to very fine grained; white, tan, lt. orange; moist; some mica.
							Sandy Silt to Silty Very Fine Sand (ML) - rust, brick, black; mottled; micaeous; few rock fragments.
					58		Silty Sand with Clay (SM/SC) - fine grained; white, tan, lt. orange; few micaeous layers; rock fragments (weathered gneiss).
							Silty Very Fine Sand (ML) - few fine grains; black and gold; very micaeous (weathered schist).
					59		Silty Sand with Clay (SM/SC) - fine to medium grained; tan, lt. orange, black, gold; indistinct layering.

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BORING NO. CP-D-03

Client:		Drilling Start Date:	Drilling End Date:	Page of
Schlumberger		6-18-09	6-19-09	4 4
Site:		Drilling Method:		Project Number:
Plant Site, Pickens, SC		DPT		71238.40
Geologist/Technician:	Driller (name/company):	Drill Rig Type:		Borehole Diameter (in.):
Lisa Clark	Gary Ellingworth Parratt-Wolff	Ingersoll Rand IR-300		1.5 in.
Boring Coordinates: N: E:	Total Depth (ft.): 64.00	Measuring Point Elevation (ft.):		
Datum Description:	Datum Elevation (ft.):	Checked by:		

Sample Interval	% Recovery	Sample Type	Blow Counts	PID (ppm)	Depth (feet)	Stratigraphy	LITHOLOGIC DESCRIPTION
	100	MC		<1	61		Silty to Clayey Sand (SM/SC) - fine to medium grained with some coarse; gold, black, white; mottled; very micaeous.
					62		Silty Sand (SM) - fine to medium grained; some clay; white, gold, black, tan; mottled; wet; some rock fragments (weathered granitic gneiss).
					63		
					64		**DPT Boring Terminated at 64 feet**
					65		
					66		
					67		
					68		
					69		
					70		
					71		
					72		
					73		
					74		
					75		
					76		
					77		
					78		
					79		

SOIL BORING LOG

RMT

BORING NO. CP-D-04

Client:		Drilling Start Date:	Drilling End Date:	Page of
Schlumberger		6-23-09	6-23-09	1 2
Site:		Drilling Method:		Project Number:
Plant Site, Pickens, SC		DPT		71238.40
Geologist/Technician:	Driller (name/company):	Drill Rig Type:		Borehole Diameter (in.):
Lisa Clark	Gary Ellingworth Parratt-Wolff	Ingersoll Rand IR-300		1.5 in.
Boring Coordinates: N: E:	Total Depth (ft.): 21.00	Measuring Point Elevation (ft.):		
Datum Description:	Datum Elevation (ft.):	Checked by:		

Sample Interval	% Recovery	Sample Type	Blow Counts	PID (ppm)	Depth (feet)	Stratigraphy	LITHOLOGIC DESCRIPTION
	100	MC		0	1–7		Silty to Clayey Sand (SM/SC) - fine grained; brick; micaeous (fill). - color changes to dk. brown with brick-colored inclusions; some roots.
	100	MC		<2	7–8		Silty Sand (SM) - fine to very fine grained; little clay; brick; layered; moist; some mica.
	100	MC		0.3-2.9	8–9		Silty Sand (SM) - fine grained; little clay; rust, black, orange, gold; indistinct layering; moist; some mica.
					9–12		Silty Sand (SM) - very fine grained; maroon, rust, little black, little white; layered to mottled; moist; micaeous.
	75	MC		0-1	12–13		Silty Sand (SM) - very fine to medium grained; little clay; maroon, white, little rust; layered; moist; micaeous.
					13–14		Silty Sand (SM) - fine to very fine grained with some coarse grains at 12.7 feet; maroon, rust, yellow, black; layered at angles of approx. 30 degrees; moist; micaeous. Weathered Gneiss Silty Sand (SM) - fine grained; some clay; black and white with rust-stained layers.
					14–15		Weathered Gneiss
					15–16		Silty Sand (SM) - fine grained; some clay; black and white with rust-stained layers. Weathered Gneiss
	96	MC		<2	16–17		Sandy Silt to Silty Sand (ML/SM) - very fine grained; tan, little brown; laminated; moist; little mica.
					17–18		Sandy Silt to Silty Sand (ML/SM) - very fine grained; tan, black, rust; laminated; moist; micaeous.
					18–19		Silty Sand with Gravel (SM) - little clay; rust, brick, little black, yellow, and maroon; indistinct layering; moist; some mica.
					19		Gneiss - black and white. No recovery

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SOIL BORING LOG

RMT

BORING NO. CP-D-04

Client:		Drilling Start Date:	Drilling End Date:	Page of
Schlumberger		6-23-09	6-23-09	2 2
Site:		Drilling Method:		Project Number:
Plant Site, Pickens, SC		DPT		71238.40
Geologist/Technician:	Driller (name/company):	Drill Rig Type:		Borehole Diameter (in.):
Lisa Clark	Gary Ellingworth Parratt-Wolff	Ingersoll Rand IR-300		1.5 in.
Boring Coordinates: N: E:	Total Depth (ft.): 21.00	Measuring Point Elevation (ft.):		
Datum Description:	Datum Elevation (ft.):	Checked by:		

Sample Interval	% Recovery	Sample Type	Blow Counts	PID (ppm)	Depth (feet)	Stratigraphy	LITHOLOGIC DESCRIPTION
	0.	MC			21		No recovery
							DPT Refusal at 21 feet
					22		
					23		
					24		
					25		
					26		
					27		
					28		
					29		
					30		
					31		
					32		
					33		
					34		
					35		
					36		
					37		
					38		
					39		

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SOIL BORING LOG

RMT

BORING NO. CP-H-01

Client:		Drilling Start Date:	Drilling End Date:	Page of
Schlumberger		6-17-09	6-17-09	1 3
Site:		Drilling Method:		Project Number:
Plant Site, Pickens, SC		DPT		71238.40
Geologist/Technician:	Driller (name/company):	Drill Rig Type:		Borehole Diameter (in.):
Lisa Clark	Gary Ellingworth Parratt-Wolff	Ingersoll Rand IR-300		1.5 in
Boring Coordinates: N: E:	Total Depth (ft.): 44.20	Measuring Point Elevation (ft.):		
Datum Description:	Datum Elevation (ft.):	Checked by:		

Sample Interval	% Recovery	Sample Type	Blow Counts	PID (ppm)	Depth (feet)	Stratigraphy	LITHOLOGIC DESCRIPTION
	100	MC		0 - 0.5	1		Sandy Clay (CL) - fine grained; brick; moist; roots in upper 6 inches.
					2		Silty Sand (SM) - fine to medium grained; some clay; brick red with trace black; some mica; slightly moist.
					3		
	84	MC		<1	4		Silty to Clayey Sand (SM/SC) - rust, brick, black; trace to little mica; weathered gneiss fragments.
					5		Sandy Clay (CL) - very fine grained; brick; slightly moist; some mica.
							Highly Weathered Gneiss.
					6		Silty Sand to Sandy Silt (SM/ML) - very fine grained; brick, little orange; slightly moist; some mica.
					7		Silty to Clayey Sand (SM/SC) - fine grained with fine rock fragments; brick, brown and black; indistinct layering; some mica.
	88	MC		0 - 2.2	8		Silty Sand (SM) - fine to medium grained; black, white, rust; layered; slightly moist; some mica.
					9		Silty Sand (SM) - very fine grained; some clay; grey, white, orange, tan (weathered gneiss).
					10		Silty Sand (SM) - fine to medium grained; rust, brick, black, some gold; indistinct layering; micaeous.
							Silty Sand with Gravel (SM) - white, orange, gold (weathered gneiss).
					11		Sandy Silt to Silty Sand (ML/SM) - very fine grained; rust, tan, grey, black; indistinct layering; slightly moist; very micaeous (weathered schist).
	75	MC		<2.5	12		Silty Sand (SM) - fine to medium grained; trace clay; white, lt. grey, orange (weathered gneiss).
					13		Silt (ML) - rust, orange, black, gold; mottled; slightly moist; very micaeous.
					14		Silty Sand (SM) - fine to medium grained; some clay; white, lt. orange, black, gold; some mica (muscovite); some rock fragments (may be weathered granite).
					15		
	75	MC		0 - 1.2	16		
					17		
					18		
					19		

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SOIL BORING LOG

RMT

BORING NO. CP-H-01

Client:		Drilling Start Date:	Drilling End Date:	Page of
Schlumberger		6-17-09	6-17-09	2 3
Site:		Drilling Method:		Project Number:
Plant Site, Pickens, SC		DPT		71238.40
Geologist/Technician:	Driller (name/company):	Drill Rig Type:		Borehole Diameter (in.):
Lisa Clark	Gary Ellingworth Parratt-Wolff	Ingersoll Rand IR-300		1.5 in
Boring Coordinates: N: E:	Total Depth (ft.): 44.20	Measuring Point Elevation (ft.):		
Datum Description:	Datum Elevation (ft.):	Checked by:		

Sample Interval	% Recovery	Sample Type	Blow Counts	PID (ppm)	Depth (feet)	Stratigraphy	LITHOLOGIC DESCRIPTION
	85	MC		<2	21		Silty Sand (SM) - fine to medium grained; some clay; white, lt. orange, black, gold; some mica (muscovite); some rock fragments (may be weathered granite).
							Silty Sand (SM) - very fine grained; brick; slightly moist.
							Weathered Gneiss.
					22		Silty Sand (SM) - fine to medium grained; rust, brick, white, grey, litttle black; little mica (may be weathered granite).
					23		Silty Sand to Sandy Silt (SM/ML) - very fine grained; gold, black, rust, yellow, some grey; layered; very micaeous (may be weathered schist).
	84	MC		0 - 5.1	24		Silty Sand with Gravel (SM) - white, grey, gold, little pink; layered; slightly moist (weathered gneiss).
					25		Silty Sand to Sandy Silt (SM/ML) - rust, orange, gold, black; laminated; slightly moist; micaeous; some rock fragments (may be weathered schist).
					26		Silty Sand with Gravel (SM) - white, tan, lt. orange, little black; rock fragments (weathered gneiss).
					27		Silty Sand (SM) - fine to very fine grained; rust and orange; indistinct to distinct layering; slightly moist; no mica.
							Silty Sand with Gravel (SM) - fine to coarse grained with abundant rock fragments; little clay; white, black, little lt. orange (may be weathered granite).
	79	MC		0 - 5.3	28		Sandy Silt (ML) - very fine grained; brown, black, tan, orange; indistinct layers; slightly moist; micaeous.
					29		Weathered Gneiss - white to light grey.
					30		Sandy Silt to Silty Sand (ML/SM) - very fine grained; rust, brick and gold with black mottling; some indistinct layering; slightly moist; very micaeous.
					31		Silty Sand with Gravel (SM) - fine to coarse grained with abundant rock fragments; white, orange, tan, black; indistinct layering; slightly moist (weathered gneiss).
							Silty Sand (SM) - fine grained; brown, tan, lt. grey; indistinct layering; slightly moist; few weathered rock fragments.
	84	MC		<5	32		Weathered Gneiss
					33		Silty Sand (SM) - fine grained; trace clay; orange and yellow; laminated; slightly moist; no mica.
					34		Sandy Silt to Silty Sand (ML/SM) - very fine grained; orange and black; layered; slightly moist; very micaeous; 1/4 inch layer of quartz sand at 30.8 feet.
							Silty Sand (SM) - fine grained; some clay; grey and white; layered (weathered gneiss).
					35		Silty Sand to Sandy Silt (SM/ML) - black and gold; micaeous (may be weathered schist).
							Silty Sand (SM) - fine grained; some clay; rust, yellow, tan, little black and gold; laminated; little mica.
	75	MC		0.2 - 5.1	36		Silty Sand (SM) - fine grained; some clay; grey and white; some layering (weathered gneiss).
							Silty Sand to Sandy Silt (SM/ML) - black, gold, rust; layered; some mica.
					37		Silty Sand (SM) - fine grained; some clay; lt. grey, white and black (weathered gneiss).
							Silty Sand (SM) - fine grained; some clay; tan and brown (weathered gneiss).
					38		Silty Sand to Sandy Silt (SM/ML) - very fine grained; black and gold; layered (weathered schist).
					39		Silty Sand (SM) - very fine grained; gold, black, orange, tan; layered; slightly moist; very micaeous (weathered schist).
							Silty Sand (SM) - fine grained; lt. grey, tan; layered; slightly moist; some mica (weathered gneiss).

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RMT

BORING NO. CP-H-01

Client:		Drilling Start Date:	Drilling End Date:	Page of
Schlumberger		6-17-09	6-17-09	3 3
Site:		Drilling Method:		Project Number:
Plant Site, Pickens, SC		DPT		71238.40
Geologist/Technician:	Driller (name/company):	Drill Rig Type:		Borehole Diameter (in.):
Lisa Clark	Gary Ellingworth Parratt-Wolff	Ingersoll Rand IR-300		1.5 in
Boring Coordinates: N: E:	Total Depth (ft.): 44.20	Measuring Point Elevation (ft.):		
Datum Description:	Datum Elevation (ft.):	Checked by:		

Sample Interval	% Recovery	Sample Type	Blow Counts	PID (ppm)	Depth (feet)	Stratigraphy	LITHOLOGIC DESCRIPTION
	75	MC		2 - 18.9	41		Silty Sand (SM) - fine grained; brown, gold, grey, orange; layered; micaeous.
					42		Silty Sand (SM) - fine grained; little clay; layered; some mica; some rock fragments (weathered gneiss).
					43		*Hornblende Gneiss - black*
					44		Silty Sand to Sandy Silt (SM/ML) - very fine grained; black, tan, rust; layered; highly micaeous.
					45		**DPT Refusal @ 44.2 feet**
					46		
					47		
					48		
					49		
					50		
					51		
					52		
					53		
					54		
					55		
					56		
					57		
					58		
					59		

SOIL BORING LOG

RMT

BORING NO. CP-H-02

Client:		Drilling Start Date:	Drilling End Date:	Page of
Schlumberger		6-16-09	6-23-09	1 4
Site:		Drilling Method:		Project Number:
Plant Site, Pickens, SC		DPT/HSA		71238.40
Geologist/Technician:	Driller (name/company):	Drill Rig Type:		Borehole Diameter (in.):
Lisa Clark	Gary Ellingworth Parratt-Wolff	Ingersoll Rand IR-300		1.5 in/8.25 in
Boring Coordinates: N: E:	Total Depth (ft.): 66.00	Measuring Point Elevation (ft.):		
Datum Description:	Datum Elevation (ft.):	Checked by:		

Sample Interval	% Recovery	Sample Type	Blow Counts	PID (ppm)	Depth (feet)	Stratigraphy	LITHOLOGIC DESCRIPTION
	100	MC		46 - 415	1		Sandy Clay (CL) - brick red; slightly moist.
					2		Silty Clay (CL) - brick with little maroon, little rust; layered.
					3		Clayey Silt (ML) - some sand; brick with little maroon, little rust; layered; micaeous; trace rock fragments.
	100	MC		150 - 200	4		Sandy Silt with Clay (ML) - brick; micaeous; indistinct layering; moist.
					5		
					6		
					7		Silty Sand (SM) - rust, orange, yellow, tan; layered; slightly moist; little mica.
					8		Sandy Silt (ML) - brown, rust, maroon and black; indistinct layering; micaeous; some rock fragments.
	100	MC		18 - 987			Sandy Silt (ML) - very fine grained; maroon, brown, little orange; layered; micaeous.
					9		Silty Sand to Sandy Silt (SM/ML) - very fine grained; brown and orange with trace maroon, black and white; laminated; some mica; slightly moist.
					10		Sandy Silt (ML) - very fine grained; little clay; brick and orange; laminated; slightly moist.
							Sandy Silt (ML) - very fine grained with highly weathered rock fragments; little clay; rust, brick, grey and black; indistinct layering; micaeous; slightly moist.
					11		Silty Sand to Sandy Silt (SM/ML) - very fine grained; rust, brown and black; layered; some mica; slightly moist.
	100	MC		6 - 161	12		Silty Sand with Gravel (SM) - rust, brick, yellow; layered (weathered gneiss).
							Silty to Sandy Clay (CL) - maroon; micaeous; slightly moist.
					13		Sandy Silt (ML) - very fine grained; brick, yellow and orange; indistinct layering; loose.
							Silty Sand (SM) - fine to very fine grained; rust, black and white; laminated; some mica; slightly moist.
					14		Silty Sand with Gravel (SM) - rust; some mica (weathered gneiss).
					15		Silty Sand with Gravel (SM) - white, grey, rust and gold; layered (weathered gneiss).
							Silty Sand (SM) - fine to very fine grained; rust, orange, white and grey; laminated; trace mica.
	100	MC		<10 - 93	16		Silty Sand to Sandy Silt (SM/ML) - fine to very fine grained; rust; few rock fragments; some mica.
							Hornblende Gneiss - light grey, white and black; weathered.
					17		Silty Sand (SM) - fine to very fine grained; rust, grey, gold and black; layered; few rock fragments.
					18		
					19		Hornblende Gneiss - some silty fine sand; light grey, white, little tan and black; weathered.

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SOIL BORING LOG

RMT

BORING NO. CP-H-02

Client:		Drilling Start Date:	Drilling End Date:	Page of
Schlumberger		6-16-09	6-23-09	2 4
Site:		Drilling Method:		Project Number:
Plant Site, Pickens, SC		DPT/HSA		71238.40
Geologist/Technician:	Driller (name/company):	Drill Rig Type:		Borehole Diameter (in.):
Lisa Clark	Gary Ellingworth Parratt-Wolff	Ingersoll Rand IR-300		1.5 in/8.25 in
Boring Coordinates: N: E:	Total Depth (ft.): 66.00	Measuring Point Elevation (ft.):		
Datum Description:	Datum Elevation (ft.):	Checked by:		

Sample Interval	% Recovery	Sample Type	Blow Counts	PID (ppm)	Depth (feet)	Stratigraphy	LITHOLOGIC DESCRIPTION
	100	MC		<5	21		Silty Sand to Sandy Silt (SM/ML) - very fine grained; trace clay.
							Silty Sand (SM) - fine grained; rust orange and yellow; laminated; slightly moist.
							Silt (ML) - trace very fine sand; gold, black, some rust; indistinct layering; very micaeous.
					22		Silty Sand (SM) - little clay; light tan, grey, white, little orange; layered, rock fragments (weathered gneiss).
					23		Sandy Silt (ML) - very fine grained; gold, brown, white and black; layered; very micaeous; slightly moist; some black rock fragments.
	75	MC		<1 - 24	24		Sandy Silt (ML) - very fine grained; rust, brick, tan, white and black; laminated; micaeous; slightly moist.
							Hornblende Gneiss
					25		Sandy Silt (ML) - very fine grained; rust, brick, tan, white and black; laminated; micaeous; slightly moist.
					26		Silty Sand (SM) - fine grained; light grey, white and black (weathered gneiss).
					27		Silt (ML) - gold, black, tan, grey, orange; layered; micaeous; some rock fragments.
	94	MC		1.3 - 12	28		Silty Sand (SM) - fine grained; tan, rust, grey, white, black; indistinct layering; slightly moist to dry; micaeous; some rock fragments (weathered gneiss).
					29		
					30		
					31		Silty Sand (SM) - fine to very fine grained; rust, brown, yellow, orange; layered; very micaeous; some rock fragments (weathered schist).
	100	MC		0.2 - 50	32		Sandy Silt to Silty Very Fine Sand (ML) - rust, grey, tan, black; layered; micaeous.
					33		Sand and Gravel (SP) - fine to coarse grained; little silt; white and rust; predominately feldspar.
					34		Silty Sand (SM) - fine to very fine grained; brown, rust, orange, white, grey; layered; dry; micaeous.
					35		Silty Sand (SM) - fine to coarse; dk. brown and gold; well foliated; micaeous (weathered schist).
	88	MC		0.5 - 13	36		Silty Sand (SM) - very fine with some fine to medium grains; dk. brown and gold; very micaeous (weathered schist).
					37		
					38		
					39		Silty Very Fine Sand (ML) - tan, gold, rust, little grey; layered; micaeous.
							Clayey Sand (SC) - very fine with few medium grains; brown; dry; homogeneous.

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SOIL BORING LOG

RMT

BORING NO. CP-H-02

Client:		Drilling Start Date:	Drilling End Date:	Page of
Schlumberger		6-16-09	6-23-09	3 4
Site:		Drilling Method:		Project Number:
Plant Site, Pickens, SC		DPT/HSA		71238.40
Geologist/Technician:	Driller (name/company):	Drill Rig Type:		Borehole Diameter (in.):
Lisa Clark	Gary Ellingworth Parratt-Wolff	Ingersoll Rand IR-300		1.5 in/8.25 in
Boring Coordinates: N: E:	Total Depth (ft.): 66.00	Measuring Point Elevation (ft.):		
Datum Description:	Datum Elevation (ft.):	Checked by:		

Sample Interval	% Recovery	Sample Type	Blow Counts	PID (ppm)	Depth (feet)	Stratigraphy	LITHOLOGIC DESCRIPTION
	83	MC		0.5 - 3.4	41		Silty Sand (SM) - very fine grained; dk. brown and gold; micaeous; dry.
					42		Silt (ML) - gold and brown; predominately mica (weathered schist).
							Silty Sand to Sandy Silt (SM/ML) - very fine grained; rust, orange, tan, brown; layered; slightly moist; micaeous.
					43		Silty Sand to Sandy Silt (SM/ML) - very fine grained; brown, gold, rust; finely layered to laminated; predominately mica (weathered schist).
	88	SPT		<1	44		Silty Sand (SM) - very fine with trace fine grains; little clay; tan, rust, orange, some white; trace mica.
					45		Silty Sand to Sandy Silt (SM/ML) - very fine grained; grey, rust, little black, little white; indistinct layering; micaeous.
	96	SPT		1 - 5	46		Silty to Clayey Sand (SM/SC) - fine grained; white, orange, gold; mottled; slightly moist; evidence of iron-filled fractures at 35 to 40 degree angle (may be weathered granitic gneiss).
	67	SPT			47		
					48		
	63	SPT		<1	49		
					50		
					51		
	100	SPT		1.2 - 2.6	52		Silty Sand (SM) - fine grained; brown, rust, gold; loose; dry; very micaeous.
					53		Sandy Silt to Silty Sand (ML/SM) - very fine grained; brown, little rust, little white; finely layered to laminated; loose; dry; micaeous.
	100	SPT		0.6 - 2	54		Silty Sand (SM) - fine to very fine grained; lt. grey, rust, gold; laminated at approx. 10 degree angle; loose; dry to slightly moist; few inclusions of white feldspar and quartz crystals (weathered gneiss).
					55		
	100	SPT		0.3 - 5.2	56		Sandy Silt to Silty Sand (ML/SM) - very fine grained; lt. grey, tan, rust; some mica (weathered gneiss).
					57		Silty Sand to Sandy Silt (SM/ML) - very fine grained; gold, rust; predominately mica (weathered schist).
	71	SPT		0.7 - 1	58		Silty Sand (SM) - fine to medium grained; white, orange, little gold; some mica (weathered gneiss).
					59		Sandy Silt to Silty Very Fine Sand (ML) - grey and brown; indistinct layering; slightly moist; very micaeous (weathered schist).

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RMT

BORING NO. CP-H-02

Client:		Drilling Start Date:	Drilling End Date:	Page of
Schlumberger		6-16-09	6-23-09	4 4
Site:		Drilling Method:		Project Number:
Plant Site, Pickens, SC		DPT/HSA		71238.40
Geologist/Technician:	Driller (name/company):	Drill Rig Type:		Borehole Diameter (in.):
Lisa Clark	Gary Ellingworth Parratt-Wolff	Ingersoll Rand IR-300		1.5 in/8.25 in
Boring Coordinates: N: E:	Total Depth (ft.): 66.00	Measuring Point Elevation (ft.):		
Datum Description:	Datum Elevation (ft.):	Checked by:		

Sample Interval	% Recovery	Sample Type	Blow Counts	PID (ppm)	Depth (feet)	Stratigraphy	LITHOLOGIC DESCRIPTION
	21	SPT		<1	61–62		Silty Sand (SM) - fine to very fine with trace medium grains; trace clay; white, black, little gold; little mica; finely granular (weathered gneiss).
	50	SPT		<1	63–64		Silty Sand (SM) - very fine grained; brown, gold, rust, tan, white; layered; moist; very micaeous (may be weathered schist).
	0	SPT			65–66		
					66		**Boring Terminated at 66 feet**
					67–79		

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SOIL BORING LOG

RMT

BORING NO. CP-H-03

Client:		Drilling Start Date:	Drilling End Date:	Page of
Schlumberger		6-16-09	6-16-09	1 2
Site:		Drilling Method:		Project Number:
Plant Site, Pickens, SC		DPT		71238.40
Geologist/Technician:	Driller (name/company):	Drill Rig Type:		Borehole Diameter (in.):
Lisa Clark	Gary Ellingworth Parratt-Wolff	Ingersoll Rand IR-300		1.5 in.
Boring Coordinates: N: E:	Total Depth (ft.): 24.20	Measuring Point Elevation (ft.):		
Datum Description:	Datum Elevation (ft.):	Checked by:		

Sample Interval	% Recovery	Sample Type	Blow Counts	PID (ppm)	Depth (feet)	Stratigraphy	LITHOLOGIC DESCRIPTION
	100	MC		<5	1		Silty Sand (SM) - fine grained; trace clay; black, brick, and brown; micaeous; some roots (probably fill).
					2		Clay (CL) - trace sand; brick; little mica (probably fill).
					3		Silty Sand (SM) -fine grained; trace clay; brown and black; trace mica; loose; dry (probably fill).
					4		Silty Sand (SM) - fine to very fine grained; white, grey, and black; loose; dry.
	100	MC		<5			Silty Sand (SM) - brown; very organic.
					5		Sandy Silt (ML) - orange, rust, and brown; layered; very micaeous; loose; slightly moist.
					6		
					7		Silty Sand (SM) - fine grained; lt. yellow, white, and orange; dry (may be weathered gneiss).
					8		
	100	MC		<1			Silt (ML) - trace clay; brown, brick, little rust; irregularly layered; micaeous; dry.
					9		Silty Sand (SM) - grey and brown; very organic; abundant roots.
					10		Silty Sand (SM) - very fine grained; light tan, yellow, rust; layered to slightly mottled; trace to little mica.
							Silt (ML) - black, gold, rust, brick; layered, very micaeous; dry (may be weathered schist).
					11		Silty Sand (SM) - very fine grained; light grey, black, orange, pink; layered; abundant rock fragments (weathered gneiss).
	88	MC		<5	12		Silt (ML) - brown, rust, gold; micaeous; moist (may be weathered schist).
							Silty Sand with Gravel (SM) - white, orange, black (weathered gneiss).
					13		Silt (ML) - some very fine sand; brown, gold, black; layered; very micaeous; very slightly moist; occasional rock fragments.
					14		
					15		
					16		
	100	MC		<5			Silt (ML) - little very fine sand; tan, gold, brown with trace maroon; indistinct layering; slightly moist; micaeous to very micaeous.
					17		Silty Sand with Gravel (SM) - weathered rock; white with trace light orange; abundant quartz and feldspar; may be weathered gneiss.
					18		Silt with Sand (ML) - very fine grained; rust, orange, black; indistinct layering; slightly moist; micaeous.
					19		Silty Sand (SM) - fine to very fine grained; orange, yellow, white and black; layered; some mica; slightly moist.
							Silty Sand with Gravel (SM) - fine grained; rust and black; layered; some mica; slightly moist.

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SOIL BORING LOG

RMT

BORING NO. CP-H-03

Client:		Drilling Start Date:	Drilling End Date:	Page of
Schlumberger		6-16-09	6-16-09	2 2
Site:		Drilling Method:		Project Number:
Plant Site, Pickens, SC		DPT		71238.40
Geologist/Technician:	Driller (name/company):	Drill Rig Type:		Borehole Diameter (in.):
Lisa Clark	Gary Ellingworth Parratt-Wolff	Ingersoll Rand IR-300		1.5 in.
Boring Coordinates: N: E:	Total Depth (ft.): 24.20	Measuring Point Elevation (ft.):		
Datum Description:	Datum Elevation (ft.):	Checked by:		

Sample Interval	% Recovery	Sample Type	Blow Counts	PID (ppm)	Depth (feet)	Stratigraphy	LITHOLOGIC DESCRIPTION
	100	MC		1	21		Silt (ML) - tan, light brown and gold; very micaeous; slightly moist (may be weathered schist).
					22		Silty Sand (SM) - very fine grained; black, rust and gold; layered; micaeous, slightly moist.
					23		Silty Sand (SM) - very fine to medium grained; white, orange and gold; little mica (weathered gneiss).
					24		**DPT Refusal @ 24.2 feet**
					25		
					26		
					27		
					28		
					29		
					30		
					31		
					32		
					33		
					34		
					35		
					36		
					37		
					38		
					39		

SOIL BORING LOG

RMT

BORING NO. SPMW-15

Client:		Drilling Start Date:	Drilling End Date:	Page of
Schlumberger		11-2-09	11-4-09	1 5
Site:		Drilling Method:		Project Number:
Sangamo Plant Site, Pickens, SC		Mud Rotary		71238.40
Geologist/Technician:	Driller (name/company):	Drill Rig Type:		Borehole Diameter (in.):
LMC	Parratt-Wolff Joshua Ellingworth	Ingersoll Rand A300		8 in
Boring Coordinates:	Total Depth (ft.):	Measuring Point Elevation (ft.):		
N: 1118756.28 E: 1483029.63	86.00	1098.73		
Datum Description:	Datum Elevation (ft.):	Checked by:		

Sample Interval	% Recovery	Sample Type	Blow Counts	PID (ppm)	Depth (feet)	Stratigraphy	LITHOLOGIC DESCRIPTION
		CUT			1–9		Clayey Silt (MH) - reddish brown; moist.
					9–19		Sandy Silt (ML) - reddish brown; fine grained.

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SOIL BORING LOG

RMT

BORING NO. SPMW-15

Client:		Drilling Start Date:	Drilling End Date:	Page of
Schlumberger		11-2-09	11-4-09	2 5
Site:		Drilling Method:		Project Number:
Sangamo Plant Site, Pickens, SC		Mud Rotary		71238.40
Geologist/Technician:	Driller (name/company):	Drill Rig Type:		Borehole Diameter (in.):
LMC	Parratt-Wolff Joshua Ellingworth	Ingersoll Rand A300		8 in
Boring Coordinates:	Total Depth (ft.):	Measuring Point Elevation (ft.):		
N: 1118756.28 E: 1483029.63	86.00	1098.73		
Datum Description:	Datum Elevation (ft.):	Checked by:		

Sample Interval	% Recovery	Sample Type	Blow Counts	PID (ppm)	Depth (feet)	Stratigraphy	LITHOLOGIC DESCRIPTION
		CUT			21–39		Sandy Silt (ML) - reddish brown; fine grained. Silty Sand (SM) - fine to medium quartz sand with some mafics and abundant mica, predominately muscovite. Silty Sand (SM) - as above, but slightly finer grained. Silty Sand (SM) - fine grained; predominately quartz with some pink orthoclase feldspar and less than 5% mafic minerals.

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RMT

SOIL BORING LOG

BORING NO. SPMW-15

Client:		Drilling Start Date:	Drilling End Date:	Page of
Schlumberger		11-2-09	11-4-09	3 5
Site:		Drilling Method:		Project Number:
Sangamo Plant Site, Pickens, SC		Mud Rotary		71238.40
Geologist/Technician:	Driller (name/company):	Drill Rig Type:		Borehole Diameter (in.):
LMC	Parratt-Wolff Joshua Ellingworth	Ingersoll Rand A300		8 in
Boring Coordinates:	Total Depth (ft.):	Measuring Point Elevation (ft.):		
N: 1118756.28 E: 1483029.63	86.00	1098.73		
Datum Description:	Datum Elevation (ft.):	Checked by:		

Sample Interval	% Recovery	Sample Type	Blow Counts	PID (ppm)	Depth (feet)	Stratigraphy	LITHOLOGIC DESCRIPTION
		CUT			41		Silty Sand (SM) - fine grained; predominately quartz with some pink orthoclase feldspar and less than 5% mafic minerals.
					42		
					43		
					44		
					45		Silty Sand (SM) - fine to medium grained sand; quartz and feldspar; trace to no mafics.
					46		
					47		
					48		
					49		
					50		
					51		
					52		Silty Sand (SM) - fine to medium grained sand with few coarse feldspar and mica crystals. Mica both muscovite and biotite. Trace to little mafics.
					53		
					54		
					55		
					56		- as above, except no coarse grains. Drilling harder.
					57		
					58		
					59		

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SOIL BORING LOG

RMT

BORING NO. SPMW-15

Client:		Drilling Start Date:	Drilling End Date:	Page of
Schlumberger		11-2-09	11-4-09	4 5
Site:		Drilling Method:		Project Number:
Sangamo Plant Site, Pickens, SC		Mud Rotary		71238.40
Geologist/Technician:	Driller (name/company):	Drill Rig Type:		Borehole Diameter (in.):
LMC	Parratt-Wolff Joshua Ellingworth	Ingersoll Rand A300		8 in
Boring Coordinates:	Total Depth (ft.):	Measuring Point Elevation (ft.):		
N: 1118756.28 E: 1483029.63	86.00	1098.73		
Datum Description:	Datum Elevation (ft.):	Checked by:		

Sample Interval	% Recovery	Sample Type	Blow Counts	PID (ppm)	Depth (feet)	Stratigraphy	LITHOLOGIC DESCRIPTION
		CUT			61		Silty Sand (SM) - fine to medium graind quartz and feldspathic sand with some coarse mica flakes.
					62		
					63		
					64		Silty Sand (SM) - fine to medium grained; Approx. 55% quartz, 30% feldspar, 10% mica, and 5% mafics.
					65		
					66		
					67		
					68		
					69		Silty Sand (SM) - fine to medium grained; Approx. 40 - 45% quartz, 40 - 45% mafics and less than 10% feldspar. Few coarse mica crystals.
					70		
					71		
					72		
					73		
					74		
					75		
					76		
					77		
					78		
					79		Silty Sand (SM) - fine to medium grained with trace coarse; Approx. 50 - 60 % quartz, 20 - 30 % mafics, 5% feldspar, and 5 - 10 % muscovite. Schistocity apparent in biotite fragments.

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SOIL BORING LOG

RMT

BORING NO. SPMW-15

Client: Schlumberger		Drilling Start Date: 11-2-09	Drilling End Date: 11-4-09	Page 5 of 5
Site: Sangamo Plant Site, Pickens, SC		Drilling Method: Mud Rotary		Project Number: 71238.40
Geologist/Technician: LMC	Driller (name/company): Parratt-Wolff Joshua Ellingworth	Drill Rig Type: Ingersoll Rand A300		Borehole Diameter (in.): 8 in
Boring Coordinates: N: 1118756.28 E: 1483029.63	Total Depth (ft.): 86.00	Measuring Point Elevation (ft.): 1098.73		
Datum Description:	Datum Elevation (ft.):	Checked by:		

Sample Interval	% Recovery	Sample Type	Blow Counts	PID (ppm)	Depth (feet)	Stratigraphy	LITHOLOGIC DESCRIPTION
		CUT			81		Silty Sand (SM) - fine to medium grained with trace coarse; Approx. 50 - 60 % quartz, 20 - 30 % mafics, 5% feldspar, and 5 - 10 % muscovite. Schistocity apparent in biotite fragments.
					82		
					83		
					84		
					85		
					86		**Boring Terminated at 86 feet**
					87		
					88		
					89		
					90		
					91		
					92		
					93		
					94		
					95		
					96		
					97		
					98		
					99		

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SOIL BORING LOG

RMT

BORING NO. SPMW-16

Client:		Drilling Start Date:	Drilling End Date:	Page of
Schlumberger		11-16-09	11-17-09	1 4
Site:		Drilling Method:		Project Number:
Sangamo Plant Site, Pickens, SC		Mud Rotary		71238.40
Geologist/Technician:	Driller (name/company):	Drill Rig Type:		Borehole Diameter (in.):
LMC	Parratt-Wolff Joshua Ellingworth	Ingersoll Rand A300		8 in
Boring Coordinates:	Total Depth (ft.):	Measuring Point Elevation (ft.):		
N: 1118485.99 E: 1482453.78	69.00	1125.11		
Datum Description:	Datum Elevation (ft.):	Checked by:		

Sample Interval	% Recovery	Sample Type	Blow Counts	PID (ppm)	Depth (feet)	Stratigraphy	LITHOLOGIC DESCRIPTION
					1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19		See log for CP-H-02

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SOIL BORING LOG

RMT

BORING NO. SPMW-16

Client: Schlumberger	Drilling Start Date: 11-16-09	Drilling End Date: 11-17-09	Page 2 of 4
Site: Sangamo Plant Site, Pickens, SC	Drilling Method: Mud Rotary		Project Number: 71238.40
Geologist/Technician: LMC	Driller (name/company): Parratt-Wolff, Joshua Ellingworth	Drill Rig Type: Ingersoll Rand A300	Borehole Diameter (in.): 8 in
Boring Coordinates: N: 1118485.99 E: 1482453.78	Total Depth (ft.): 69.00	Measuring Point Elevation (ft.): 1125.11	
Datum Description:	Datum Elevation (ft.):	Checked by:	

Sample Interval	% Recovery	Sample Type	Blow Counts	PID (ppm)	Depth (feet)	Stratigraphy	LITHOLOGIC DESCRIPTION
					21		See log for CP-H-02
					22		
					23		
					24		
					25		
					26		
					27		
					28		
					29		
					30		
					31		
					32		
					33		
					34		
					35		
					36		
					37		
					38		
					39		

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SOIL BORING LOG

RMT

BORING NO. SPMW-16

Client:		Drilling Start Date:	Drilling End Date:	Page of
Schlumberger		11-16-09	11-17-09	3 4
Site:		Drilling Method:		Project Number:
Sangamo Plant Site, Pickens, SC		Mud Rotary		71238.40
Geologist/Technician:	Driller (name/company):	Drill Rig Type:		Borehole Diameter (in.):
LMC	Parratt-Wolff Joshua Ellingworth	Ingersoll Rand A300		8 in
Boring Coordinates:	Total Depth (ft.):	Measuring Point Elevation (ft.):		
N: 1118485.99 E: 1482453.78	69.00	1125.11		
Datum Description:	Datum Elevation (ft.):	Checked by:		

Sample Interval	% Recovery	Sample Type	Blow Counts	PID (ppm)	Depth (feet)	Stratigraphy	LITHOLOGIC DESCRIPTION
					41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59		See log for CP-H-02

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SOIL BORING LOG

RMT

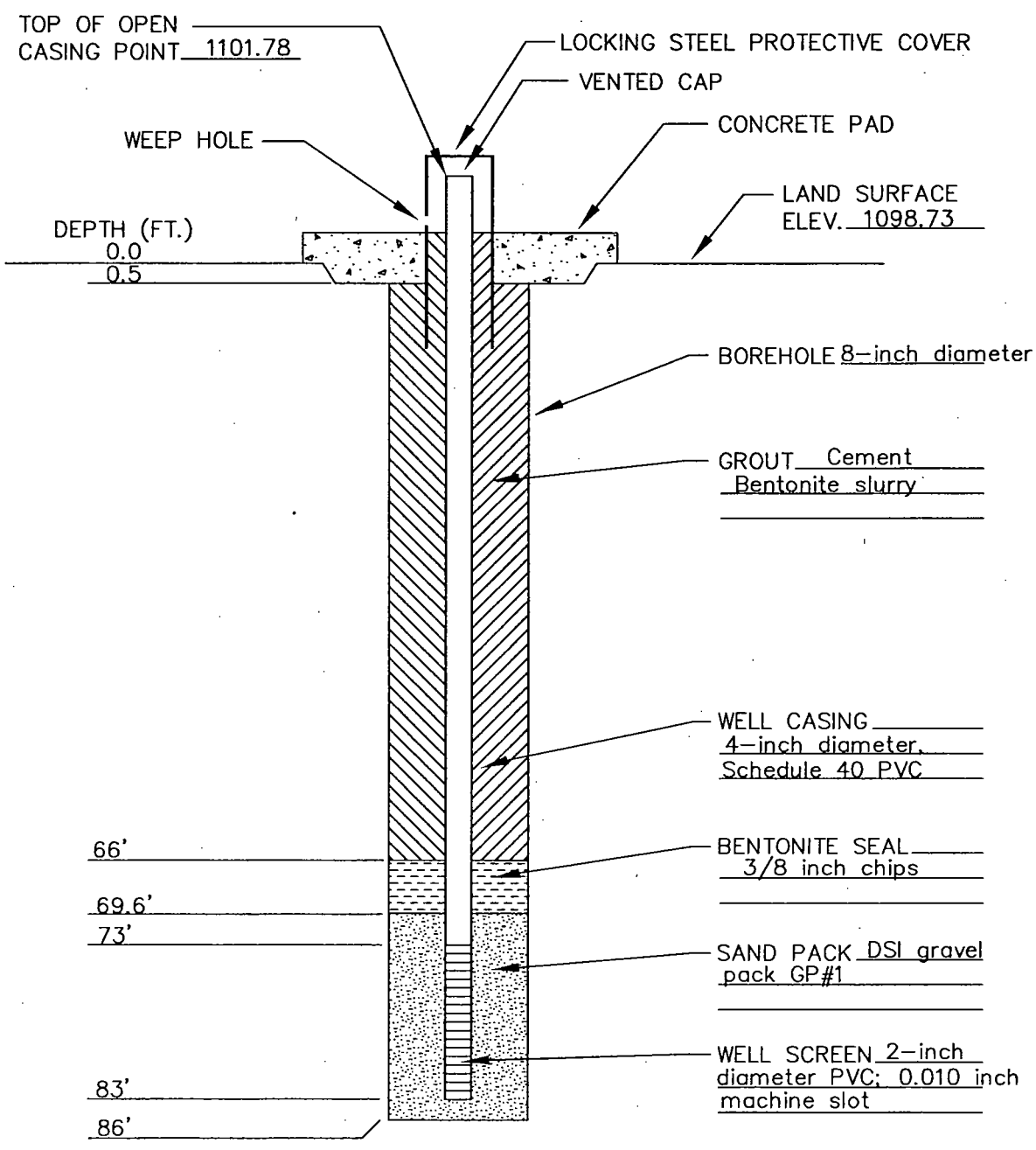
BORING NO. SPMW-16

Client:		Drilling Start Date:	Drilling End Date:	Page of
Schlumberger		11-16-09	11-17-09	4 4
Site:		Drilling Method:		Project Number:
Sangamo Plant Site, Pickens, SC		Mud Rotary		71238.40
Geologist/Technician:	Driller (name/company):	Drill Rig Type:		Borehole Diameter (in.):
LMC	Parratt-Wolff Joshua Ellingworth	Ingersoll Rand A300		8 in
Boring Coordinates:	Total Depth (ft.):	Measuring Point Elevation (ft.):		
N: 1118485.99 E: 1482453.78	69.00	1125.11		
Datum Description:	Datum Elevation (ft.):	Checked by:		

Sample Interval	% Recovery	Sample Type	Blow Counts	PID (ppm)	Depth (feet)	Stratigraphy	LITHOLOGIC DESCRIPTION
					61		See log for CP-H-02
					62		
					63		
					64		
					65		
					66		
					67		
					68		
					69		**Boring Terminated at 69 feet**
					70		
					71		
					72		
					73		
					74		
					75		
					76		
					77		
					78		
					79		

Appendix E
Well Construction Diagrams

J:CAD/71238/40/SPMW15/WEL-DIA/MW00000c



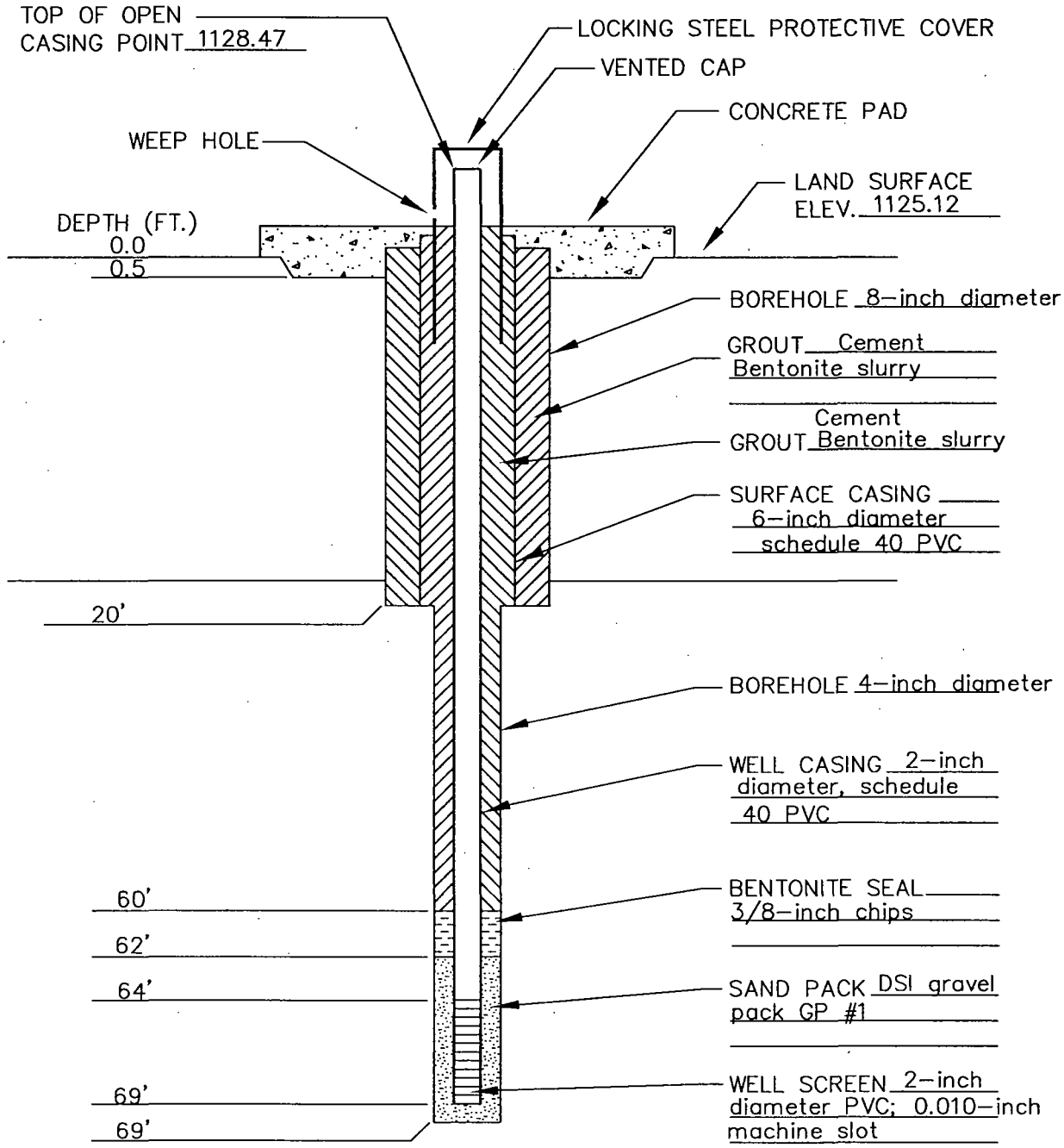
WELL CONSTRUCTION DIAGRAM

Not To Scale

PROJECT SANGAMO PLANT SITE
PROJECT NO. 00-71238.40
WELL NO. SPMW-15
DATE INSTALLED 11/4/09
DRILLING CONTRACTOR PARRATT-WOLFF
RMT TECHNICIAN LISA CLARK

RMT

J:CAD/71238/40/SPMW16/WEL-DIA/MW1G000C



WELL CONSTRUCTION DIAGRAM

Not To Scale

PROJECT SANGAMO PLANT SITE
PROJECT NO. 00-71238.40
WELL NO. SPMW-16
DATE INSTALLED 11/19/09
DRILLING CONTRACTOR PARRATT-WOLFF
RMT TECHNICIAN LISA CLARK

RMT