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amec

July 16, 2013

Mr. James M. Cashwell, PE
Olin Corporation
Environmental Remediation Group
3855 North Ocoee Street, Suite 200
Cleveland, Tennessee 37312

Subject: **Groundwater Model Update Report**
Geigy Chemical Corporation CERCLA Site
Aberdeen, North Carolina
AMEC Project 6107-13-0014

Dear Mr. Cashwell:

AMEC Environment & Infrastructure, Inc. (AMEC) is pleased to present Olin Corporation (Olin) the attached groundwater model update report for the Geigy Chemical site. The report has been prepared in accordance with our proposed scope of services dated March 26, 2013 approved by Olin on April 4, 2013.

We appreciate the opportunity to provide these services to Olin. If you have any questions related to the report please contact the undersigned.

Sincerely,
AMEC ENVIRONMENT & INFRASTRUCTURE, INC.

Andrew M. Clark, LG
Project Manager

Jackie Williams
Neven Kresic, PhD., PG
Principal Hydrogeologist

For Neven Kresic
With Permission

Attachment

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Geigy Chemical Corporation Site
Numeric Model of Groundwater Flow, Fate and Transport of Contaminants of Concern, Capture Zone Analysis
AMEC Project 6107-13-0014
July 16, 2013

Introduction

A three-dimensional numeric model of groundwater flow, and fate and transport (F&T) of contaminants of concern (COCs), in two water-bearing zones, the Upper and Lower Black Creek Aquifers underlying the Geigy Chemical Corporation Site in Aberdeen, North Carolina was reconstructed using available information on the historic numeric model developed by RUST Environment & Infrastructure on behalf of Olin Corporation. Written description of this historic model is provided by RUST (1997), including textual and graphical details regarding model construction, input parameters, and results. The information on the historic model was transferred into the new digital model as feasibly as possible. The resulting groundwater flow model was then used as the basis for developing an updated F&T model of COCs. This updated F&T model predicts future concentrations of COCs in the Upper and Lower Black Creek Aquifers using their concentrations observed in the field in 2012 as the starting point (baseline).

Both the old and the reconstructed flow model were developed using MODFLOW, a public-domain computer program by the U.S. Geological Survey (USGS; Harbaugh, 2005; McDonald and Harbaugh, 1988; Harbaugh and McDonald, 1996; Harbaugh et al., 2000). This program is thoroughly documented and widely used by consultants, government agencies, and researchers and is consistently accepted in regulatory and litigation proceedings.

The historic F&T model was developed with what appears to be MT3D, a three-dimensional computer program originally developed by Chunmiao Zheng at S.S. Papadopulos & Associates, Inc. (Zheng, 1996), and documented for the United States Environmental Protection Agency. This program uses MODFLOW solution for the groundwater flow field and simulates transport of contaminants dissolved in groundwater subject to one or more of the following mechanisms: advection, dispersion, sorption, and degradation. The updated F&T model is developed using the public domain version of an F&T computer program MT3DMS (Zheng and Wang, 1999) which is based on MT3D and has become the preferred F&T program used by the industry, government agencies and regulators.

Processing of model input data and modeling results was performed with a graphical user interface (GUI) computer program Processing Modflow, version 8.0.34 (Simcore Software, 2011).

Model Domain and Geometry

The domain and orientation of the new model, shown in Figure 1, is the same as in the original model. The extent of the new model domain is 12,000 feet along the X-axis and 11,200 feet along the Y-axis. The model domain is rotated -30.6 degrees from horizontal so that the X-axis is aligned parallel with the primary groundwater flow direction in the Lower Black Creek aquifer (RUST, 1997). Coordinates of the upper-left grid corner are X=1,872,916, Y=510,393. The entire original model had uniform cell size of 100x100 ft, 112 rows, 120 columns, and 3 layers which, from top to bottom, represent the Upper Black Creek aquifer (Layer 1), the Lower Black Creek aquifer confining unit (Layer 2), and the Lower Black Creek aquifer (Layer 3). As illustrated in Figure 2 for Layer 3, the active model domain was smaller and had 66 rows and 102 columns. The cell size of the updated model has been refined to 10x10 feet in the areas of active pumping (such as around municipal well MUW-2 and recovery wells PW-1D, PW-2D, and PW-3D; see Figure 3) to more accurately represent pumping effects.

The average bottom of Layer 1 is at elevation of 365 feet above mean sea level (amsl). The average bottom of Layer 2 it is at 354 feet amsl. Layer 2 (the Lower Black Creek aquifer confining unit) is missing in the central portion of the model as illustrated in Figure 4. The bottom of Layer 3, or the bottom of the vertical flow domain, is at average elevation of 295 feet amsl. The physical top of Layer 1 (see Figure 5) in the model is represented by the actual land surface topography derived from the new USGS Digital Elevation Model (DEM) of the area available at http://nationalmap.gov (formerly seamless.usgs.gov).

Model Boundary Conditions

Model boundary conditions are illustrated with Figures 6 through 8. No-flow boundaries are established around the edge of the active domain and in areas where the Upper Black Creek aquifer and Lower Black Creek confining unit have been eroded away. River boundaries were used to simulate McFarland's Branch, Trough Branch, Ray's Mill Creek, and Aberdeen Creek. Constant head boundaries were established in Layers 1 and 3 by extrapolating groundwater contours from potentiometric surface maps. Constant head boundaries were also used to simulate Pages Lake. Drain nodes were set along the Trough and McFarland's Branches in Layers 1 and 2 based on stream channel elevation; they start where the layers pinch-out to allow for possible drying out of the streams in case they have an intermittent character in the upper reaches.

The groundwater flow model includes precipitation recharge from the land surface to the uppermost active layer of the model. Recharge values range from 0.0013 to 0.0019 feet/day. Low values of recharge (0.000025 feet/day) were assigned to areas where Layers 1 and 2 are absent and the Lower Black Creek aquifer is covered with inactive cells.

Model Input Parameters

Groundwater Flow

As in the original model, the horizontal hydraulic conductivity of all three layers is isotropic, i.e., it is the same in both X and Y directions. In Layers 1 and 2 (Upper Black Creek aquifer and Lower Black Creek confining unit) it has a uniform value of 22 feet/day and 0.05 feet/day, respectively. Where the confining unit is absent, the horizontal hydraulic conductivity of Layer 2 is 11 feet/day which allows for an exchange of flow between the Upper and Lower Black Creek aquifers (between Layers 1 and 3). The horizontal hydraulic conductivity in Layer 3 varies between 10 feet/day and 75 feet/day. The vertical hydraulic conductivity of Layer 1 has uniform value of 0.022 feet/day. In Layer 2 it has uniform value of 0.0025 feet/day where the confining unit is present, and 0.02 feet/day where it is absent. The vertical hydraulic conductivity of Layer 3 is 0.04 feet/day.

As in the original model, the effective porosity of Layers 1 and 3 (Upper and Lower Black Creek aquifers respectively) is 0.28, whereas it is 0.10 in Layer 2 where the confining unit is present and 0.28 where the confining unit is absent.

Municipal well MUW-2 is pumping from Layer 3 at 18 gallons per minute (gpm) in the updated model. This pumping rate is scaled down from the total well pumping rate of 125 gpm (from discussions with the Town of Aberdeen) proportionally to account only for withdrawal from the Lower Black Creek aquifer via the first screen interval, 5.4 feet long. Most of the pumped water is coming from the second screen interval, 30.8 feet long, which is below the bottom of the active vertical model. This screen interval is within Cape Fear aquifer which is separated from the overlying Lower Black Creek aquifer by the regional Cape Fear confining unit.

Site recovery wells PW-1D, PW-2D, and PW-3D pump from the Upper Black Creek aquifer at 7.8 gpm, 0.5 gpm, and 1.6 gpm respectively, based on recent system operating information.

Contaminant Fate and Transport

Parameters of contaminant fate and transport in the original model had wide ranges of values for different modeled scenarios including contaminant degradation half-life as low as 1.5 years and retardation factor as high as 52 in some cases. Based on the United States Environmental protection Agency (EPA) comments regarding the likely values of F&T parameters for the modeled pesticides (RUST, 1997), the updated model conservatively assumes no degradation of alpha-BHC, beta-BHC, delta-BHC, and Lindane (gamma-BHC) and, due to very low soil organic carbon content, it is assumed that there is no contaminant retardation. As in the original model, it is assumed that there is no contaminant dispersion in Layers 1 and 2; the longitudinal, transverse, and vertical dispersion in Layer 3 is 50 ft, 5 ft, and 1 ft respectively.

Groundwater Flow Model Results

Simulated potentiometric surface contour lines for the Upper and Lower Black Creek aquifers using the reconstructed model are consistent with the historic calibrated model by RUST as shown in Figures 9 and 10 (see Figures F-6 and F-7 in Appendix F of RUST, 1997). As such, the reconstructed flow model was used to update predictions of the F&T model described further.

Fate and Transport Model Results

Lindane (gamma-BHC)

Figure 11 shows concentration of Lindane, in micrograms per liter (ug/L, ppb), observed in Lower Black Creek aquifer in October 2012 (top) and assigned as initial concentration in the F&T model (bottom). Notably, the Lindane concentration exceeded the site groundwater performance standard of 0.2 ug/L at only two monitoring wells: PZ-2 and PZ-5. Lindane concentrations at all monitoring wells screened in the Upper Black Creek aquifer were lower than the site performance standard.

The updated F&T model predicts that Lindane concentration in the Lower Black Creek aquifer will meet the site performance standard in 9 years. Figure 12 shows the predicted Lindane plume after 5 years for illustration purposes. Incorporation of any Lindane degradation rate in the F&T model would result in less time needed to reach the performance standard.

Beta-BHC

Initial concentrations of beta-BHC in the Upper and the Lower Black Creek aquifers assigned in the F&T model are shown in Figure 13. They are based on the field observed concentrations at monitoring wells in October 2012. As shown in Figures 14 and 15, the updated F&T model predicts that the beta-BHC concentrations in the Upper and Lower Black Creek aquifers will meet the site performance standards in 24 years and 27 years respectively. Incorporation of any beta-BHC degradation rate in the F&T model would result in less time needed to reach the performance standard.

Alpha-BHC and delta-BHC

Footprints of alpha-BHC and delta-BHC plumes in the Upper and Lower Black Creek aquifers are similar to the beta-BHC plumes, whereas their overall concentrations at individual monitoring wells are mostly lower than the concentrations of beta-BHC. Since the fate and transport parameters and the site performance standards for the three pesticide congeners are the same, model-predicted times needed for alpha- and beta-BHC to reach the site performance standard of 0.05 ug/L will be within the time-frame presented for beta-BHC.

The purpose of this modeling is to provide information to USEPA as part of the current 2013 5-year Record of Decision (ROD) Effectiveness Review and thus allow USEPA to notify the public of any significant changes to the conclusion of the original ROD and related documents. The remedies memorialized by the ROD are still protective and appropriate. The Final Downgradient Groundwater Remedial Action Work Plan (September 12, 1997) presented the results of the original F&T model and specified that natural attenuation (as modeled) was expected to result in attainment of the remedial goals within 4-30+ years. The results herein clearly demonstrate that remedial expectations are still valid with no significant changes to report.

Capture Zone Analysis – On-Site Groundwater Extraction System

The uppermost hydraulic zone (UHZ) underlying the site is a very thin perched zone above a low-permeability aquitard. Below the aquitard there is an unsaturated zone which transitions to the Upper Black Creek (UBC) aquifer. Migration from the UHZ to the UBC aquifer is primarily vertical and limited to leaky portions of the aquitard. The limited thickness and yield of the UHZ prevent use of electric submersible pumps and groundwater is extracted using recirculation jet pumps. Extraction rates per well are on the order of 0.5 gpm or less, and are at the limit of feasibility due to frequent drying up of the extraction wells and de-saturation of the UHZ. Concentrations of beta- and delta-BHC isomers at shallow monitoring wells are below 10 ug/l, whereas concentrations of alpha-BHC and gamma-BHC (Lindane) are below detection levels.

A capture zone analysis of the UHZ is unnecessary because:

- Lateral migration is minimal and limited to the perched unit and operation of the extraction wells is physically limited by the lack of water in this unit (the perched zone is frequently de-saturated).
- The effective mass contribution based on limited vertical leakage of low concentration BHC isomers is minimal and accounted for in the modeling of the UBC aquifer.
- 15 years of pumping and associated groundwater monitoring have established stable, declining concentrations in the UHZ including decrease of alpha-BHC and gamma-BHC (Lindane) below detection levels.

We recommend discontinuing operation of the UHZ extraction wells due to the very low extraction rates and physical limitations referenced above. The wells were originally installed to incrementally remove residual impacts remaining following the removal action. The wells have affected their purpose and are no longer necessary for the on-going protectiveness of the existing remedies.

The extraction wells in the Upper Black Creek Aquifer will be maintained due to the fact that they do continue to remove a modicum of BHC isomer mass from the system.

References

Harbaugh, A.W., 2005, MODFLOW-2005, the U.S. Geological Survey modular groundwater model – the Ground-Water Flow Process: U.S. Geological Survey Techniques and Methods 6-A16.

Harbaugh, A.W., and M.G. McDonald, 1996. User's documentation for Modflow-96, an update to the U.S. Geological Survey modular finite-difference ground-water flow model. *U.S. Geological Survey* Open-File Report 96-485, Reston, Virginia, 56 p.

Harbaugh, A.W., Banta, E.R., Hill, M.C., and McDonald, M.G., 2000. MODFLOW-2000, The U.S. Geological Survey Modular Ground-water Model User Guide to Modularization Concepts And the Ground-water Flow Process, U. S. Geological Survey, Open-file report 00-92.

McDonald, M.G., and Harbaugh, A.W., 1988. A modular three-dimensional finite-difference ground-water flow model: U.S. Geological Survey Techniques of Water-Resources Investigations, book 6, chap. A1, 586 p.

RUST, 1997. Final Downgradient Groundwater Remedial Action Work Plan, Geigy Chemical Corporation Site, Aberdeen, North Carolina, September 1997.

Simcore Software, 2011. *Processing Modflow Pro* Version 8.0.31 (computer program).

Zheng, C., 1996. MT3D Version DoD 1.5, a modular three-dimensional transport model, The Hydrogeology Group, University of Alabama.

Zheng, C., and Wang, P.P., 1999. MT3DMS: A modular three-dimensional multispecies model for simulation of advection, dispersion and chemical reactions of contaminants in groundwater systems; Documentation and Users Guide, Contract Report SERDP-99-1, U.S. Army Engineer Research and Development Center, Vicksburg, MS.

Figure 1 Model domain of the historic groundwater model. Inactive cells in Layer 1 are grayed.

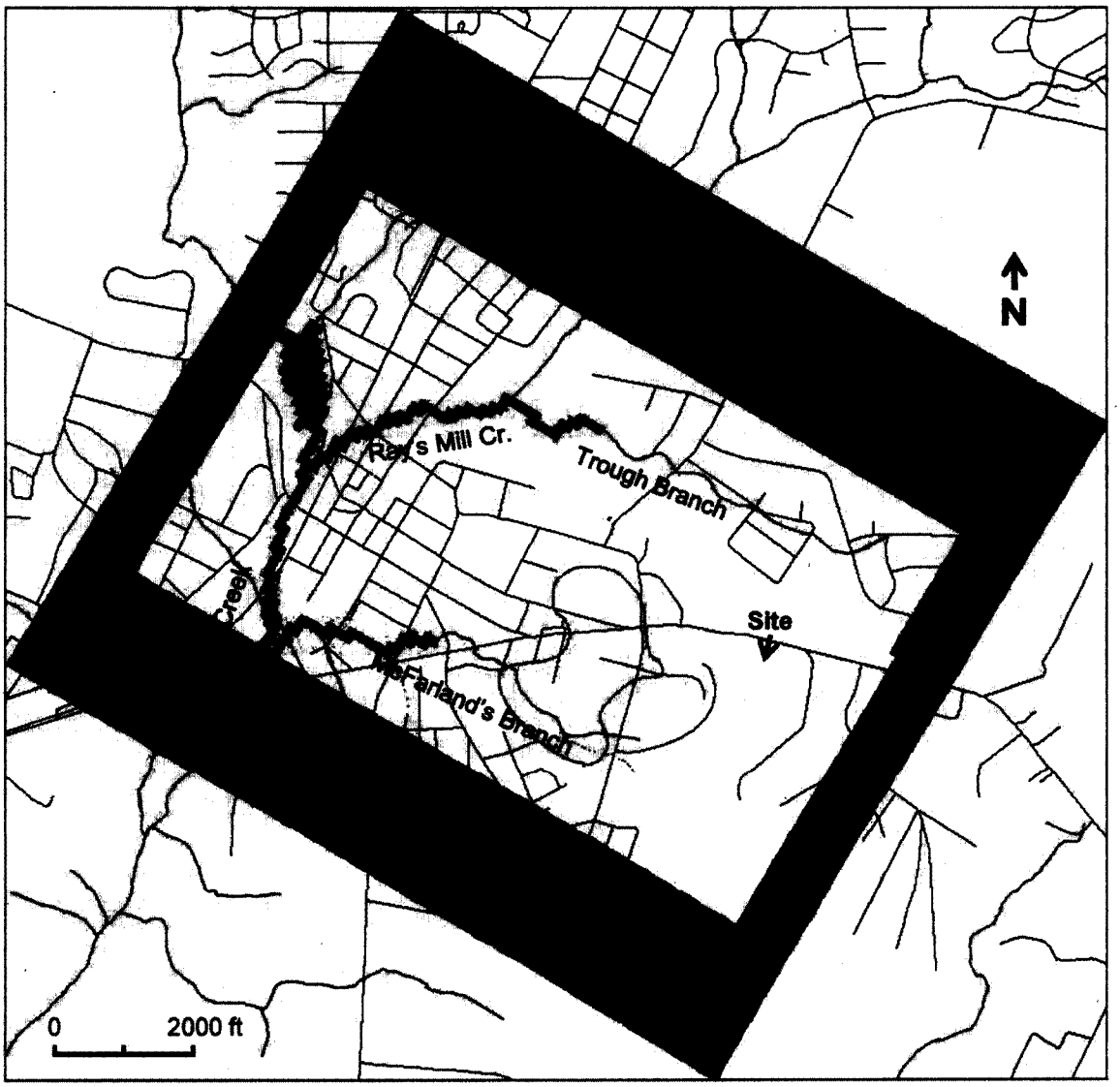

Figure 2 Model domain of the historic groundwater model. Inactive cells in Layer 3 are grayed.

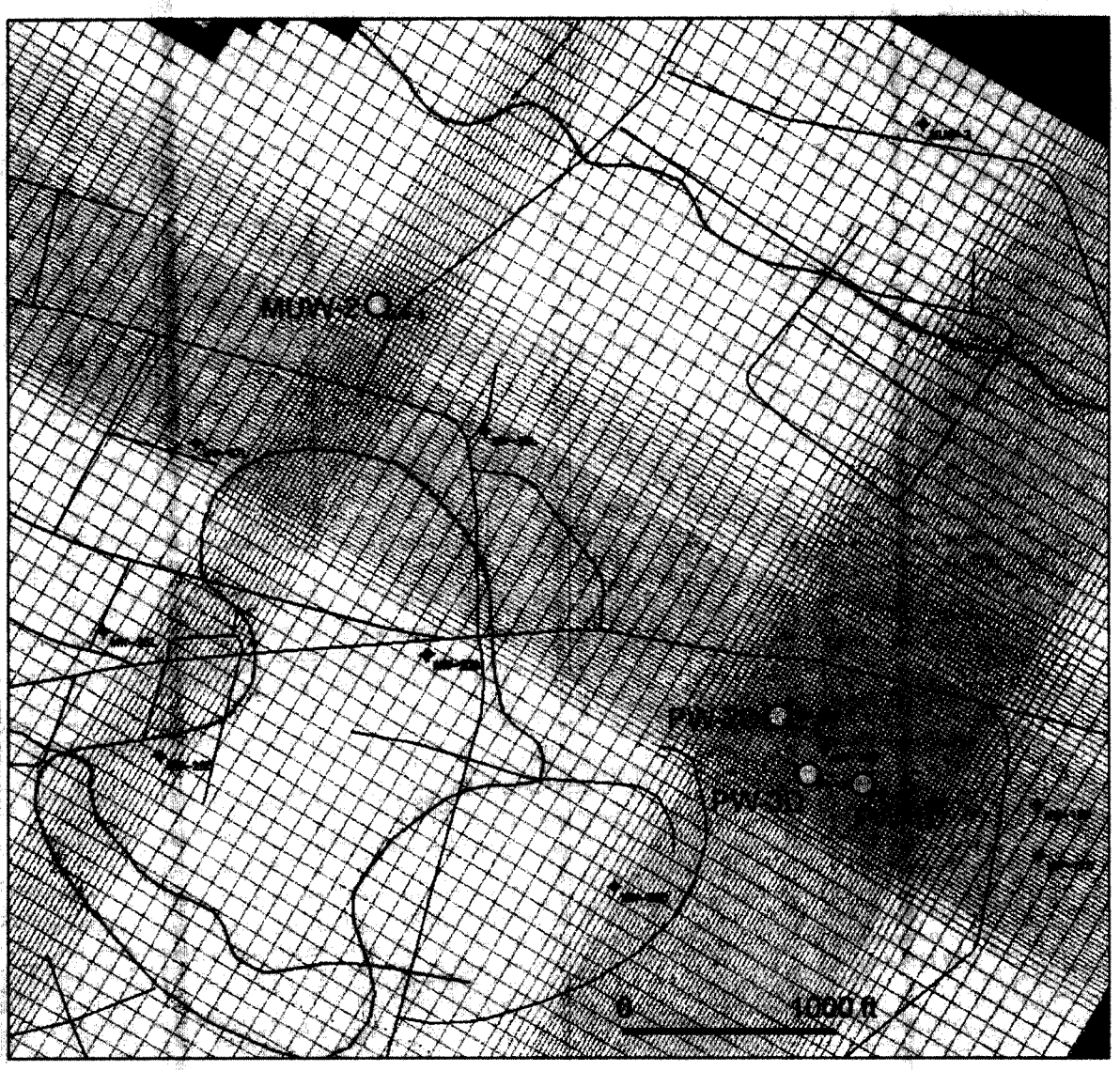

Figure 3 Cell size in the updated model varies between 10x10 feet around pumping centers and 100x100 feet farther away (pumping wells shown as yellow circles).

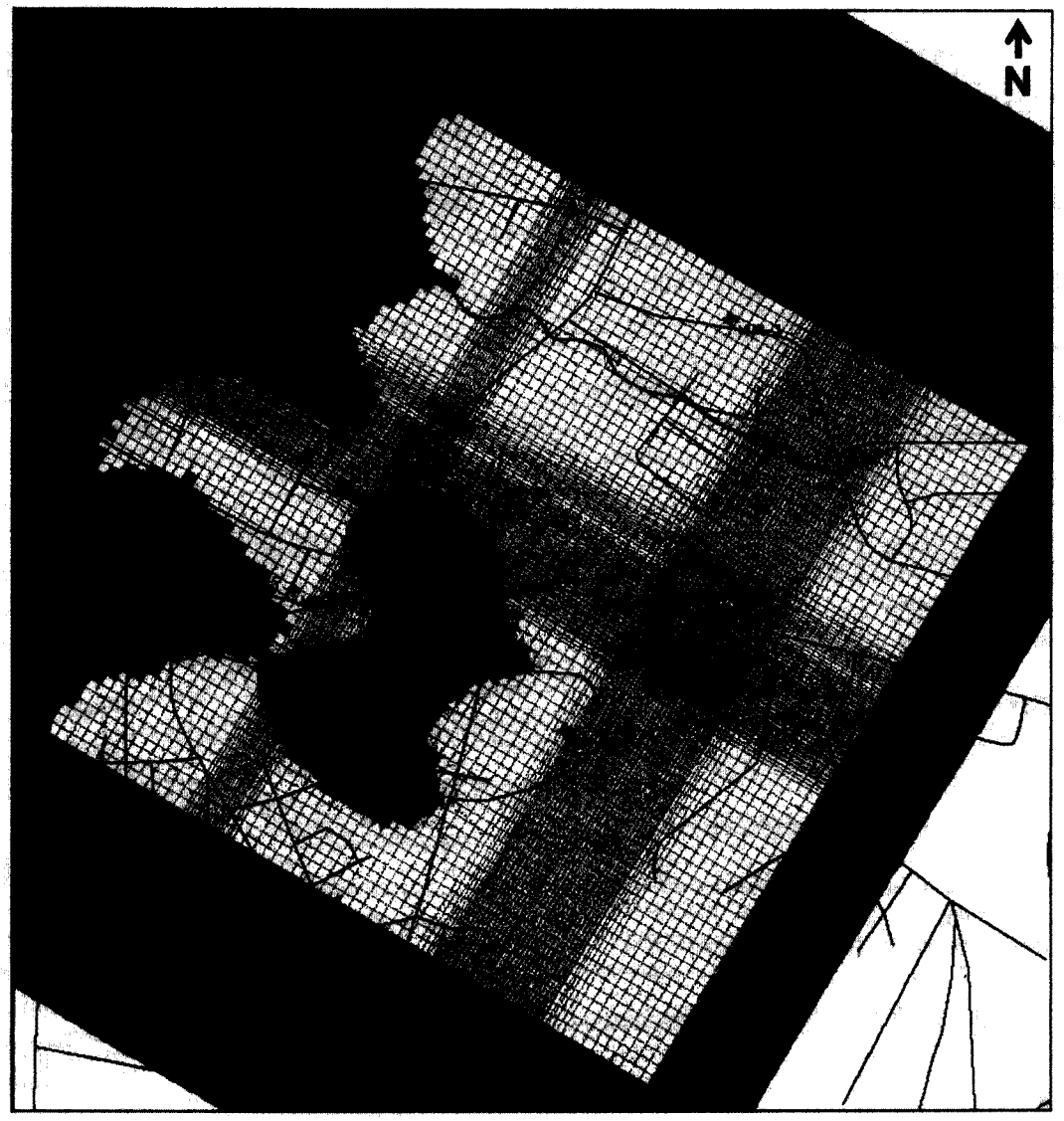

Figure 4 Area (in blue) in Layer 2 where the Lower Black Creek confining unit is missing.

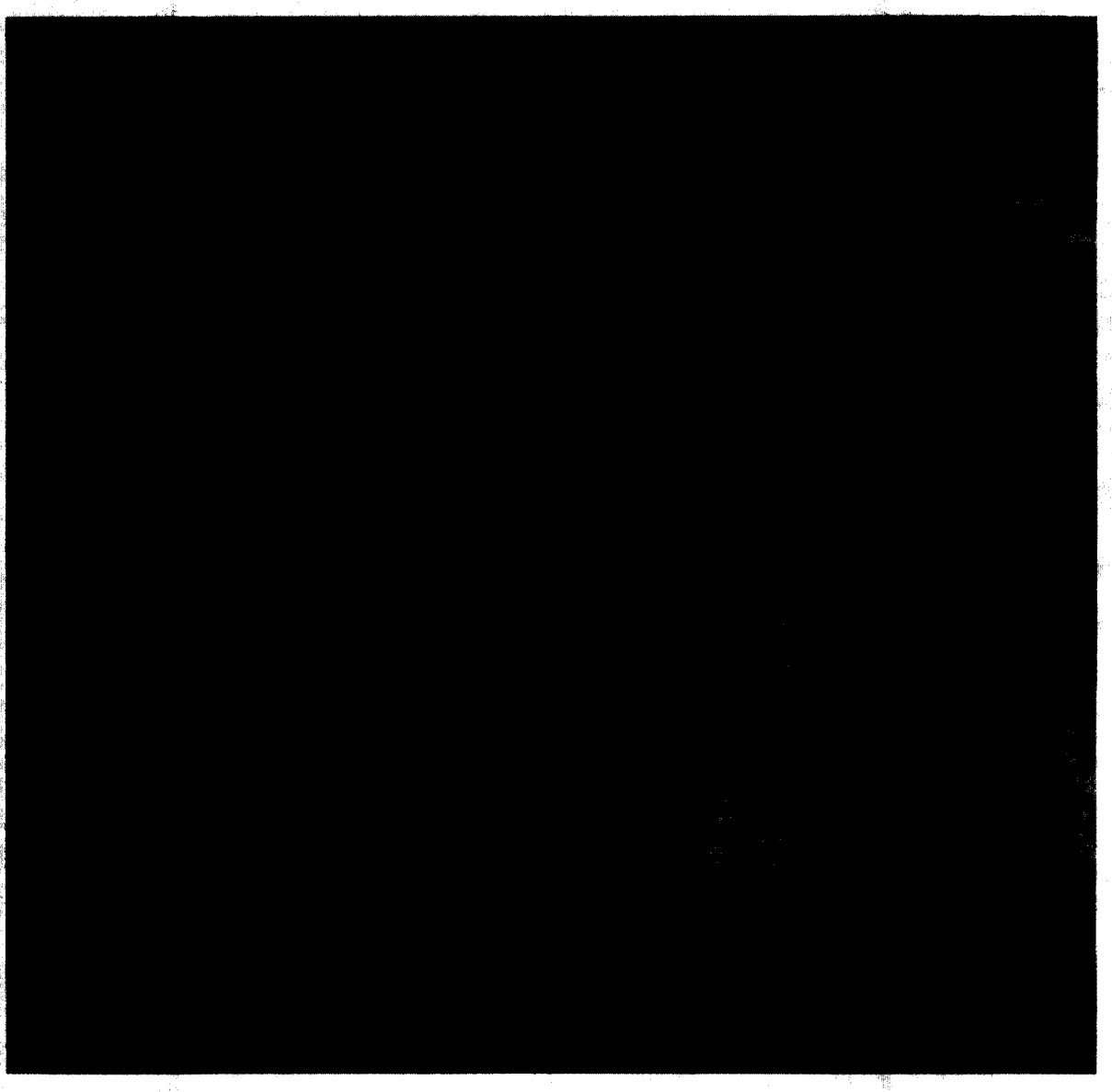

Figure 5 Digital Elevation Model (DEM) of the model area obtained from the United States Geological Survey (USGS) at http://seamless.usgs.gov. The highest elevation is in the northeast (532.4 ft asl; brown area) and the lowest is in the southwest (313.9 ft asl; light pink area along the Aberdeen Creek)

Figure 6 Boundary conditions in Layer 1 (Upper Black Creek aquifer.)

Figure 7 Boundary conditions in Layer 2 (Lower Black Creek aquifer confining unit)

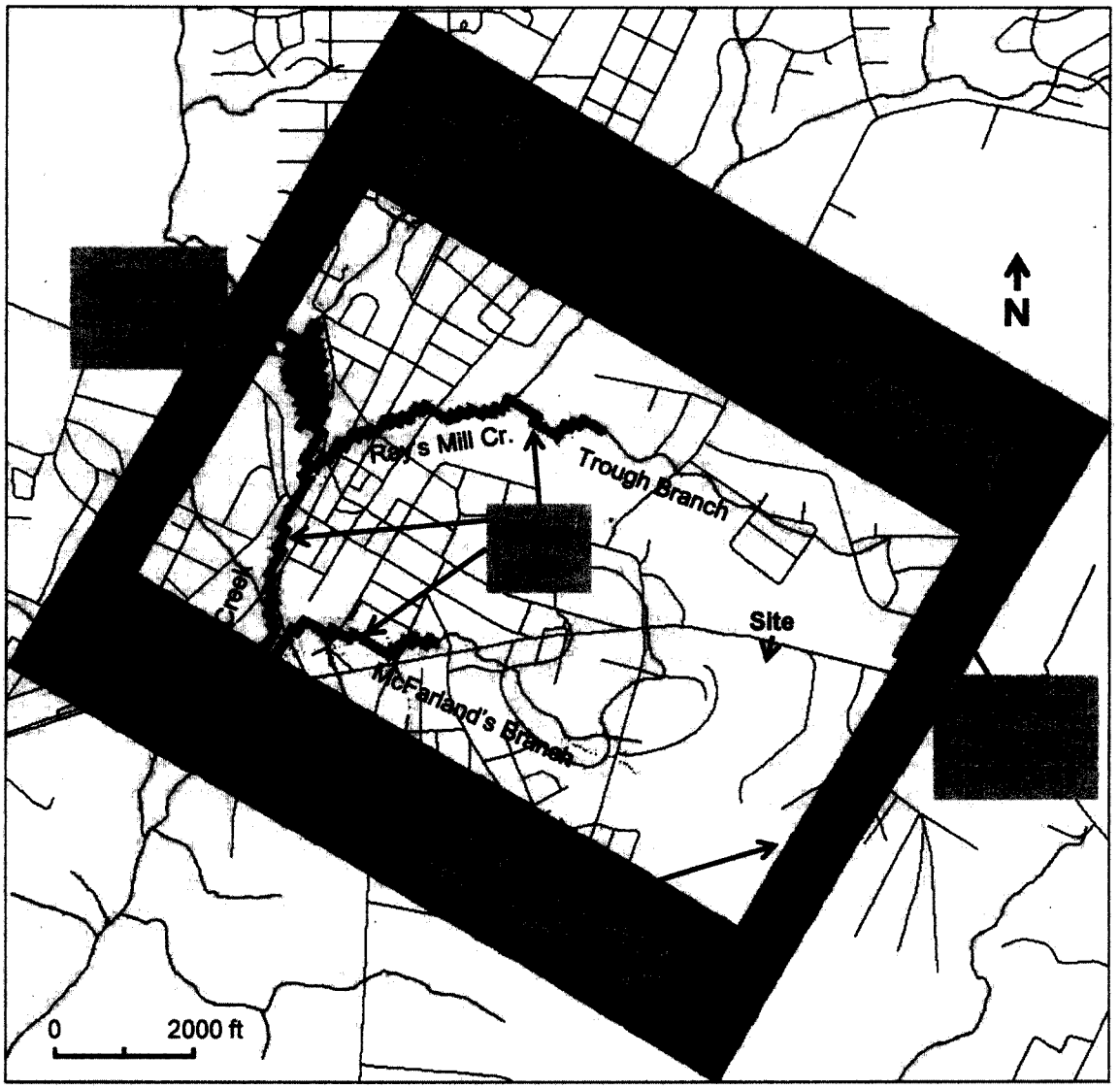

Figure 8 Boundary conditions in Layer 3 (Lower Black Creek aquifer.)

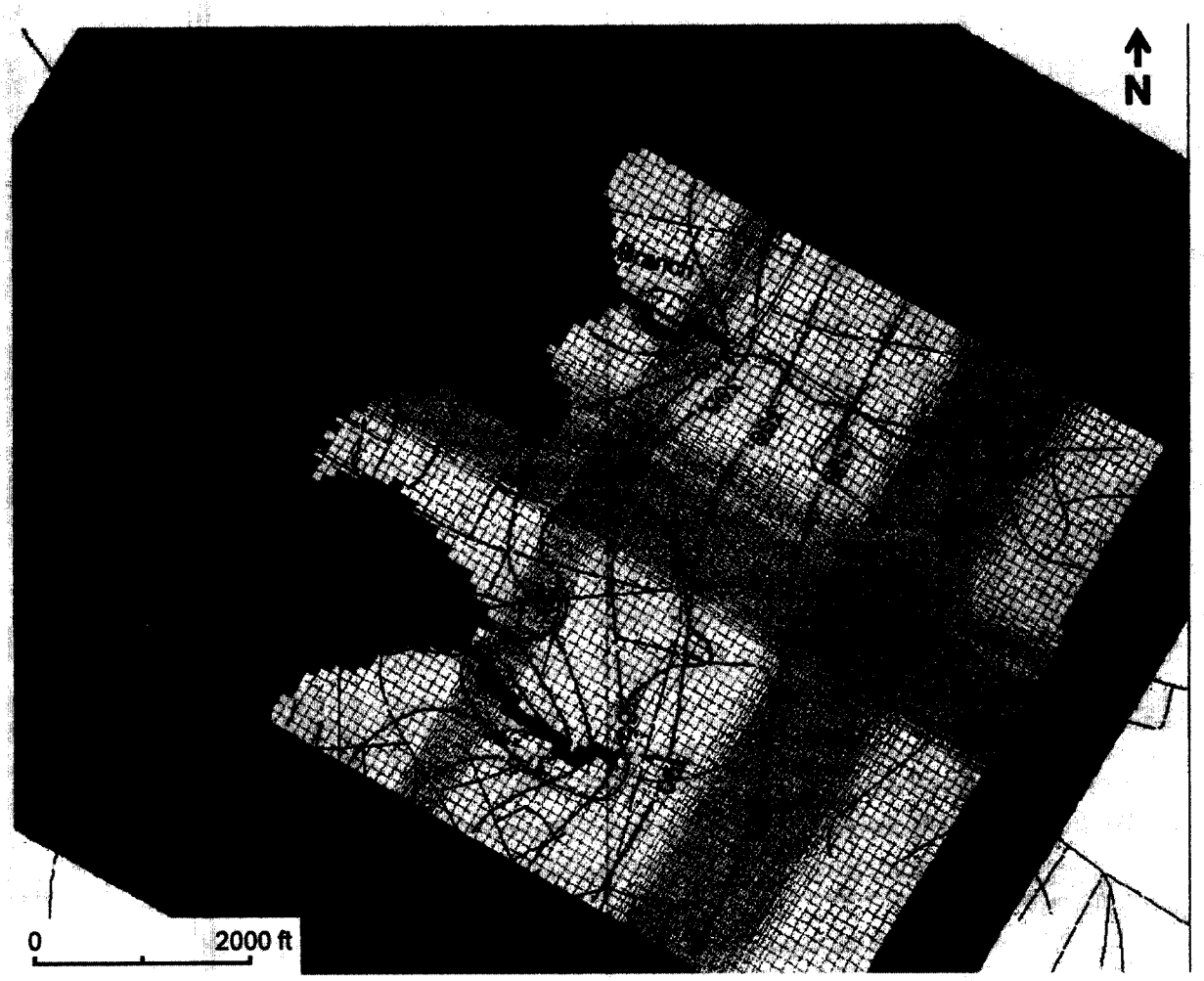

Figure 9 Modeled potentiometric surface contour lines in Layer 1 (Upper Black Creek aquifer) in feet above mean sea level; contour interval 5 feet.

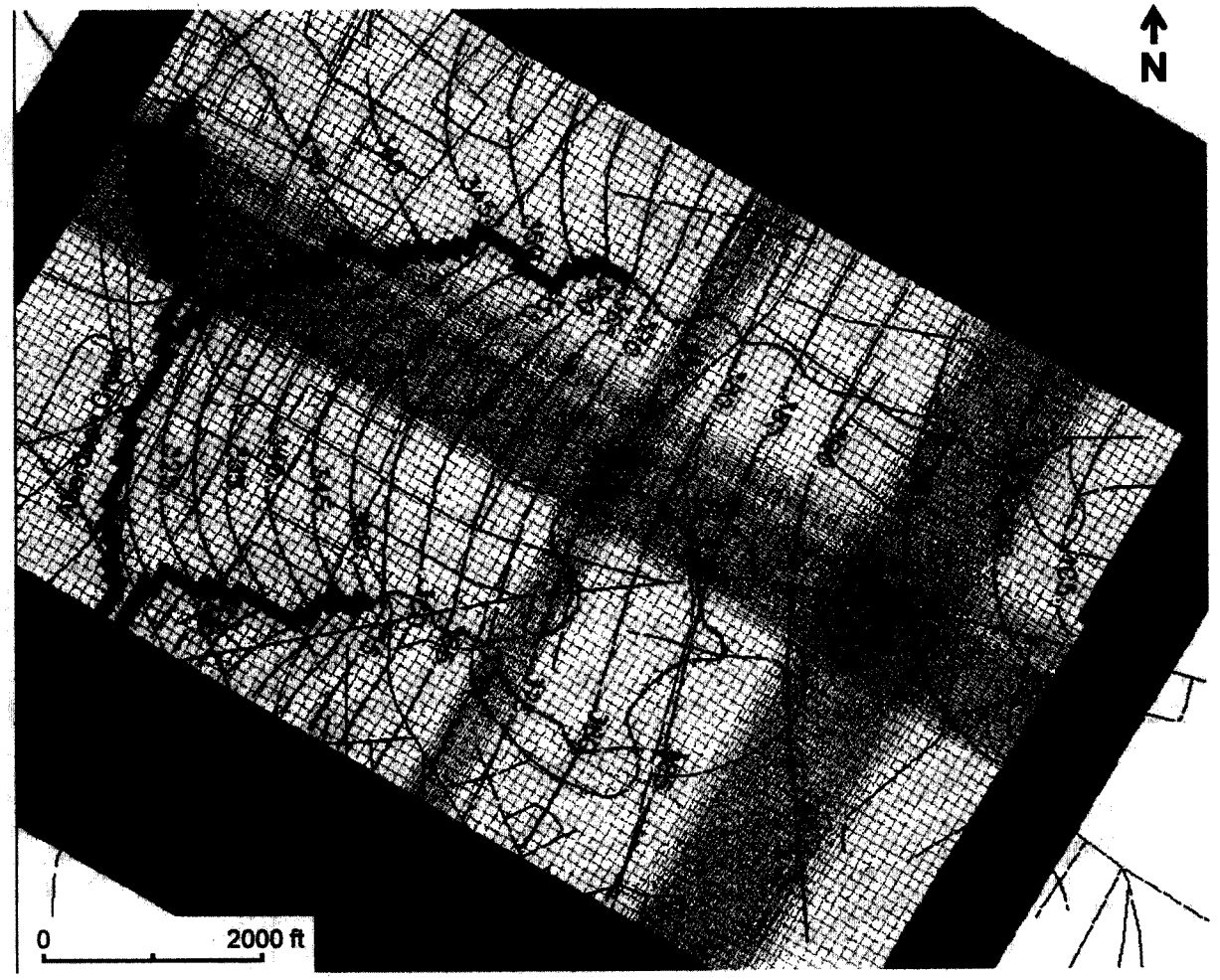

Figure 10 Modeled potentiometric surface contour lines in Layer 3 (Lower Black Creek aquifer) in feet above mean sea level; contour interval 5 feet.

Figure 11 Top: Lindane concentrations in the Lower Black Creek aquifer observed at monitoring wells in October 2012. Green circles indicate monitoring wells where concentration is less than the site performance standard. Bottom: initial Lindane concentration assigned in the F&T model. All values are in (ug/L; ppb).

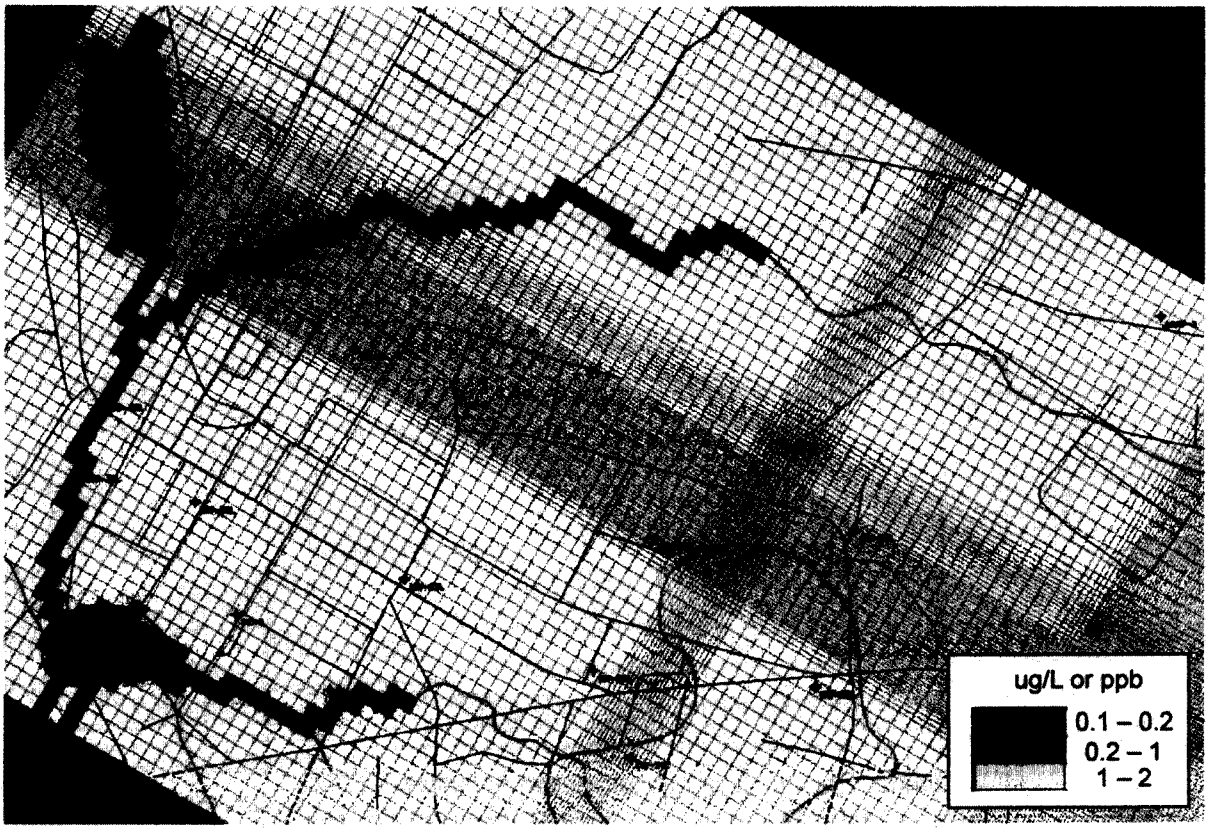

Figure 12 Predicted Lindane concentrations in the Lower Black Creek aquifer after 5 years. All concentrations are less than the site performance standard of 2 ug/L after 9 years.

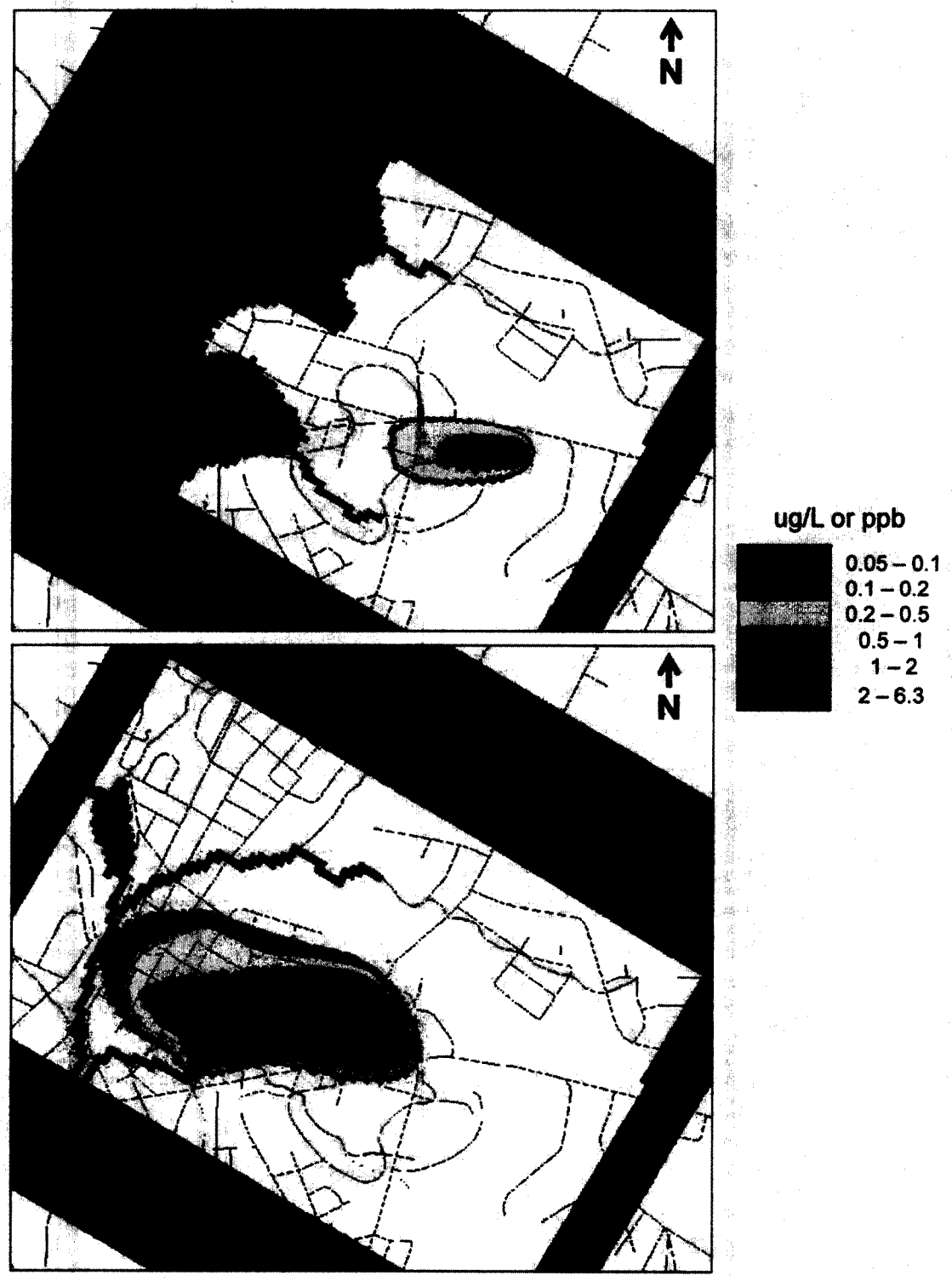

Figure 13 Beta-BHC concentrations in the Upper Black Creek aquifer (top), and the Lower Black Creek aquifer (bottom) assigned to the F&T model based on the concentrations observed at monitoring wells in October 2012.

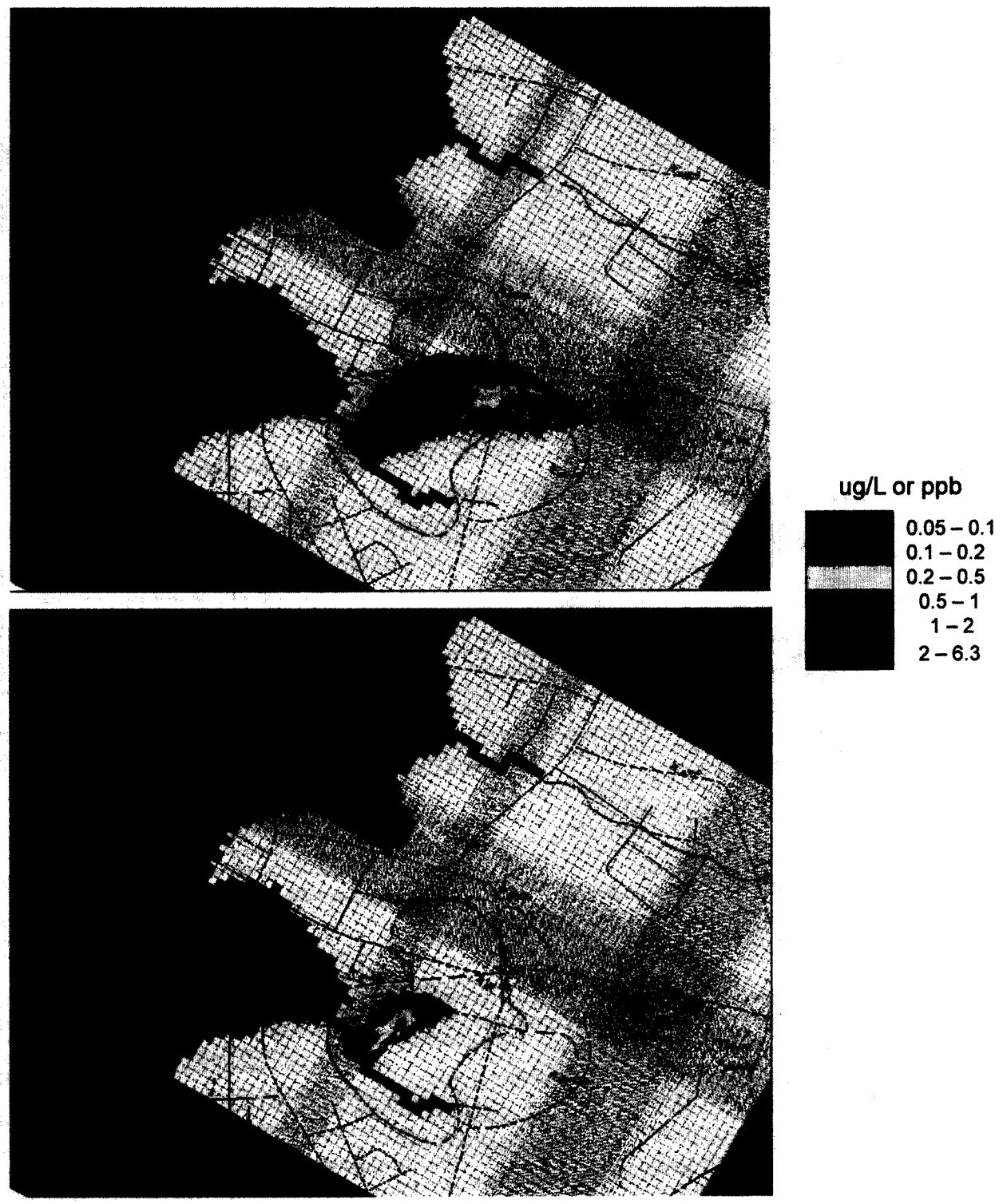

Figure 14 Predicted beta-BHC concentrations in the Upper Black Creek aquifer after 10 years (top) and after 20 years (bottom). All concentrations are less than the site performance standard of 0.05 ug/L after 24 years.

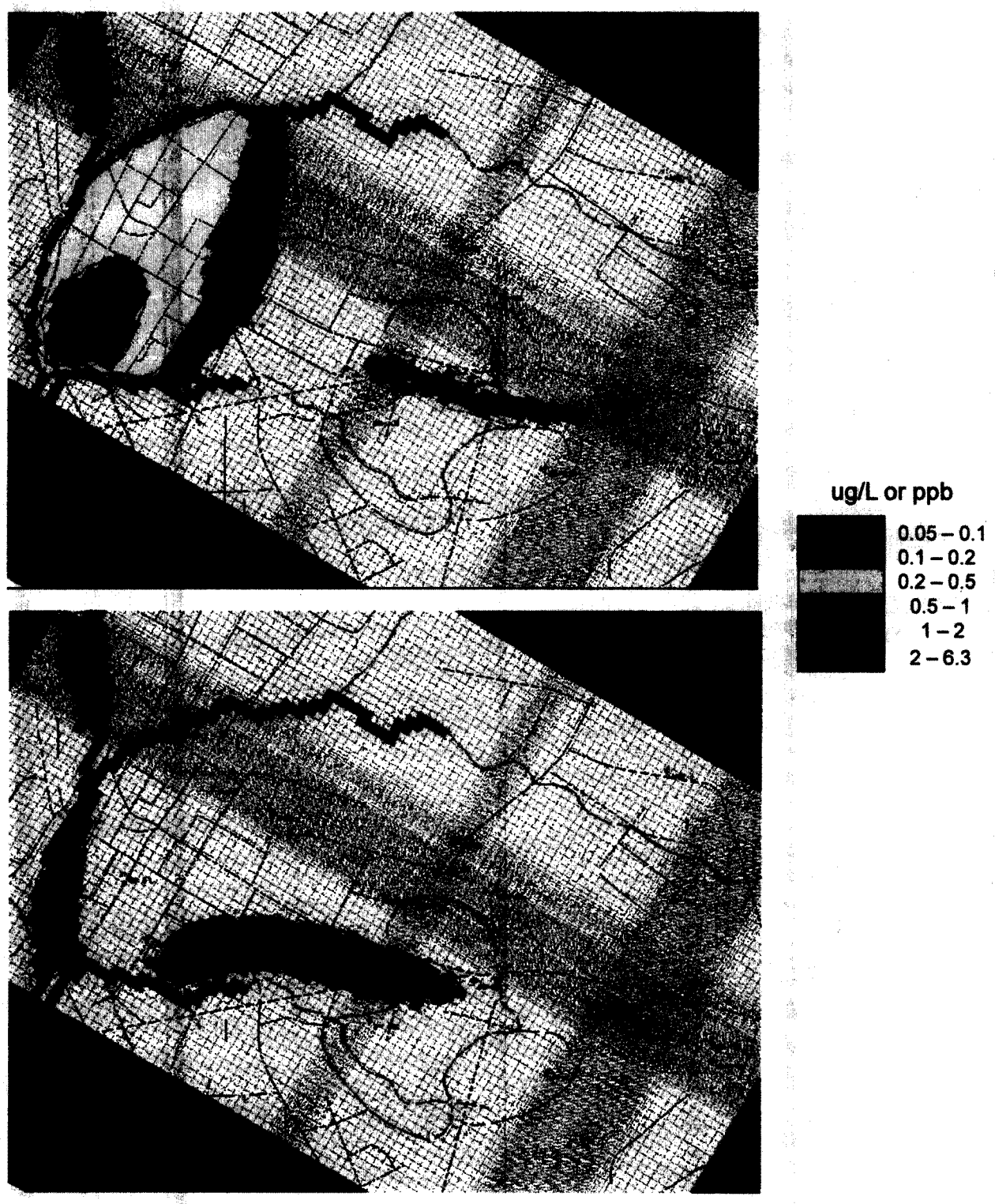

Figure 15 Predicted beta-BHC concentrations in the Lower Black Creek aquifer after 10 years (top) and after 20 years (bottom). All concentrations are less than the site performance standard of 0.05 ug/L after 27 years.

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GEIGY CHEMICAL CORPORATION SITE
ABERDEEN, NORTH CAROLINA
COMMITTEE CORRESPONDENCE

December 18, 2012
File No. 124792 | GSO12R0257

Mr. Jon Bornholm
Remedial Project Manager
USEPA Region IV
61 Forsyth Street, SW
Mail Code: 9T25
Atlanta, GA 30303-8960

RE: 2011 Annual Operating Report
Groundwater Remediation Permit No. WQ0009949
Geigy Chemical Corporation CERCLA Site
Aberdeen, North Carolina

Dear Mr. Bornholm:

On behalf of Olin Corporation and Syngenta Crop Protection (the Companies), the purpose of this letter is to transmit the analytical results for the 2011 Annual Operating sampling event for the Geigy Chemical Corporation CERCLA Site groundwater extraction, treatment, and discharge system. Information provided in this report includes:

- Monitoring requirements summary table (Attachment 1);
- Site extraction and treatment system layout (Attachment 2);
- Monitoring event analytical summary tables (Attachment 3);
- BHC isomer trend graphs for site indicator wells (Attachment 4); and
- Completed copies of NCDENR DWQ Groundwater Section Form GW-59, groundwater sampling field data sheets, and laboratory reports with Chain-of-Custody documents (Attachment 5).

Information provided in Attachment 5 of this submittal is intended to fulfill the annual reporting requirements described in Section IV, Paragraph 4 of the Site Groundwater Remediation Permit. Accordingly, one copy of this report has been sent to the North Carolina Department of Environment and Natural Resources (NCDENR) Division of Water Quality (DWQ) Groundwater Section.

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The system performed as designed during 2011 and experienced minimal down-time. Just over five million gallons of water was extracted and treated between November 2010 and October 2011, at effective treatment efficiency greater than ninety-eight percent. Pumping of the Upper Black Creek Aquifer extraction wells (PW-1D, PW-2D, and PW-3D) continues to fulfill the closed-loop requirement of the Site Groundwater Remediation Permit.

BHC isomer concentration trend graphs are provided in Attachment 4. The graphs include data from the initial sampling event through the October 2011 sampling event to facilitate review of the groundwater quality monitoring data. Alpha-BHC, beta-BHC, delta-BHC, and gamma-BHC concentrations are provided on the graphs as these constituents typically present the highest constituent concentrations and detection frequencies among the pesticides included in the sample analyses. In reviewing the graphs, please note that monitoring wells MW-16S, MW-17S, and MW-18S are screened in the surficial aquifer to monitor the infiltration gallery. Monitoring wells MW-16D and MW-17D are screened in the Upper Black Creek aquifer and are located hydraulically upgradient of the site. Monitoring wells MW-11D and MW-20D were not sampled because they were dry. The graphs generally indicate steady or decreasing trends in BHC isomer concentrations from historical levels.

If you have questions about the monitoring results, please contact Chris Hay at (336) 668-0093.

Sincerely,

KLEINFELDER SOUTHEAST, INC.

Annamarie Blauser/cas

Annamarie Blauser
Staff Professional II

Christopher W. Hay, E.I.
Program Manager

AB/CWH:cas
Enclosure

cc: NCDENR DWQ Groundwater Section, w/enc.
James Cashwell, Olin Corporation, w/enc.
George Krouse, Syngenta, w/enc.

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ATTACHMENT 1

MONITORING REQUIREMENTS SUMMARY TABLE

TABLE 1: GROUNDWATER EXTRACTION AND TREATMENT SYSTEM MONITORING SCHEDULE

SAMPLE LOCATION	PARAMETERS		FREQUENCY	
	TCL PESTICIDES	TCE	QUARTERLY	ANNUALLY
MW-4S	✓			✓
MW-5S	✓			✓
MW-6S	✓			✓
MW-10S	✓	✓		✓
MW-16S	✓	✓		✓
MW-17S	✓	✓		✓
MW-18S	✓	✓		✓
MW-11D	✓	✓		✓
MW-16D		✓		✓
MW-17D		✓		✓
MW-18D	✓	✓		✓
MW-20D	✓			✓
MW-22D	✓			✓
MW-23D	✓			✓
MW-26D	✓			✓
MW-30D	✓	✓		✓
MW-22L	✓			✓
MW-25L	✓			✓
MW-27L	✓			✓
MW-31L	✓			✓
MW-32L	✓			✓
MW-36L	✓			✓
MW-37L	✓			✓
MW-38L	✓			✓
MW-39L	✓			✓
MW-40L	✓			✓
PZ-2	✓			✓
PZ-3	✓			✓
PZ-5	✓			✓
Influent	✓	✓	✓	
Effluent	✓	✓	✓	
Carbon Train A	✓	✓	✓	
Carbon Train B	✓	✓	✓	

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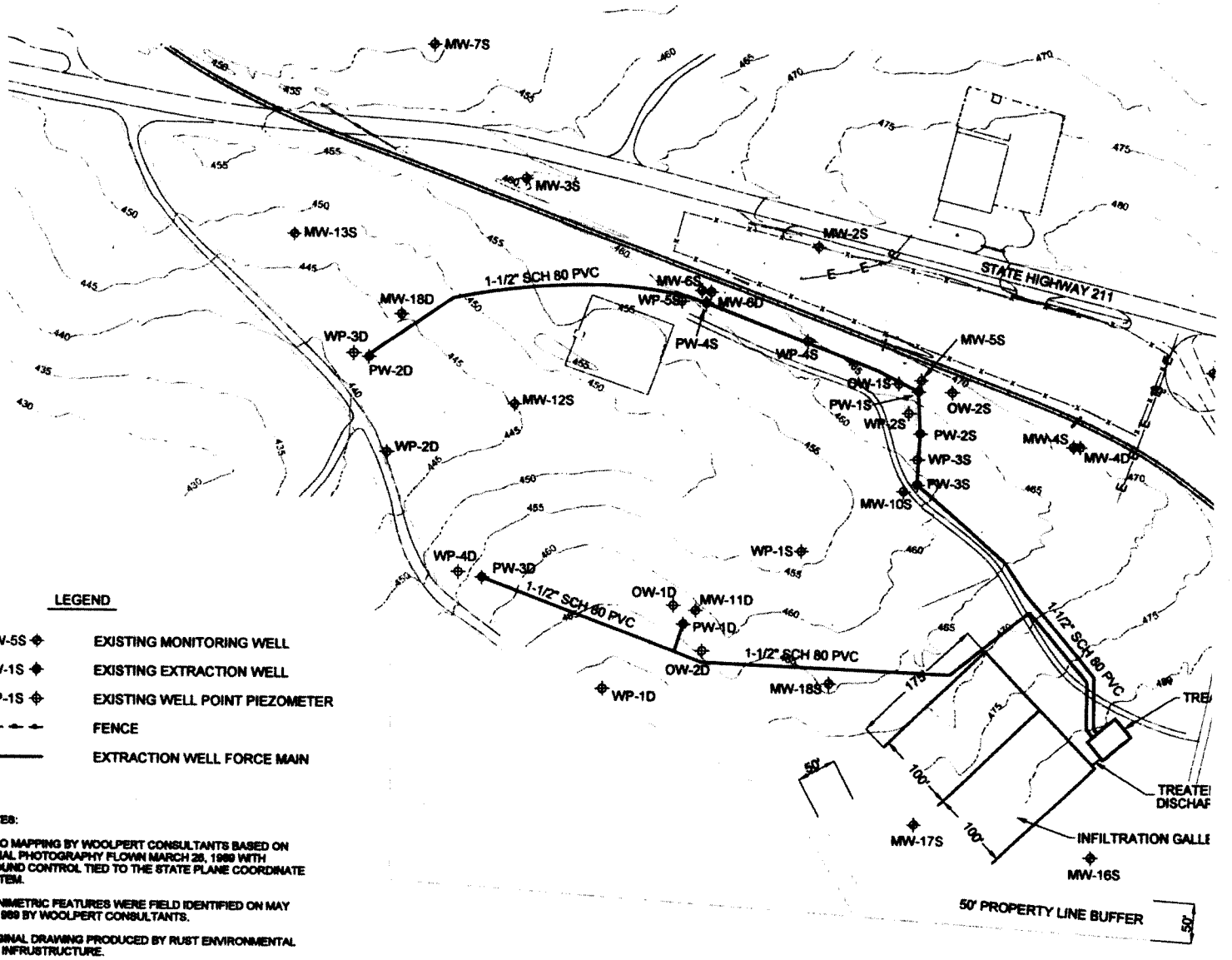
ATTACHMENT 2

SITE EXTRACTION AND TREATMENT SYSTEM LAYOUT



LEGEND

MW-5S	EXISTING MONITORING WELL
PW-1S	EXISTING EXTRACTION WELL
WP-1S	EXISTING WELL POINT PIEZOMETER
- - - -	FENCE
———	EXTRACTION WELL FORCE MAIN

NOTES:

TOPO MAPPING BY WOOLPERT CONSULTANTS BASED ON AERIAL PHOTOGRAPHY FLOWN MARCH 26, 1999 WITH GROUND CONTROL TIED TO THE STATE PLANE COORDINATE SYSTEM.

PLANIMETRIC FEATURES WERE FIELD IDENTIFIED ON MAY 18, 1999 BY WOOLPERT CONSULTANTS.

ORIGINAL DRAWING PRODUCED BY RUST ENVIRONMENTAL AND INFRUSTRUCTURE.

LOCATION OF ACCESS ROAD SHOWN ON THIS DRAWING IS APPROXIMATE.

0 50 100 200 300

SCALE IN FEET

KLEINFELDER

Bright People. Right Solutions.

313 GALLIMORE DAIRY ROAD
GREENSBORO, NORTH CAROLINA
PHONE: 336.668.0093

EXTRACTION AND TRE

Geigy Ch
Aberde

DATE: 11-13-2009

APPROV

DRAWN BY: GGL

Figure 2
Treatment System Process Layout
Geigy Chemical Corporation Site

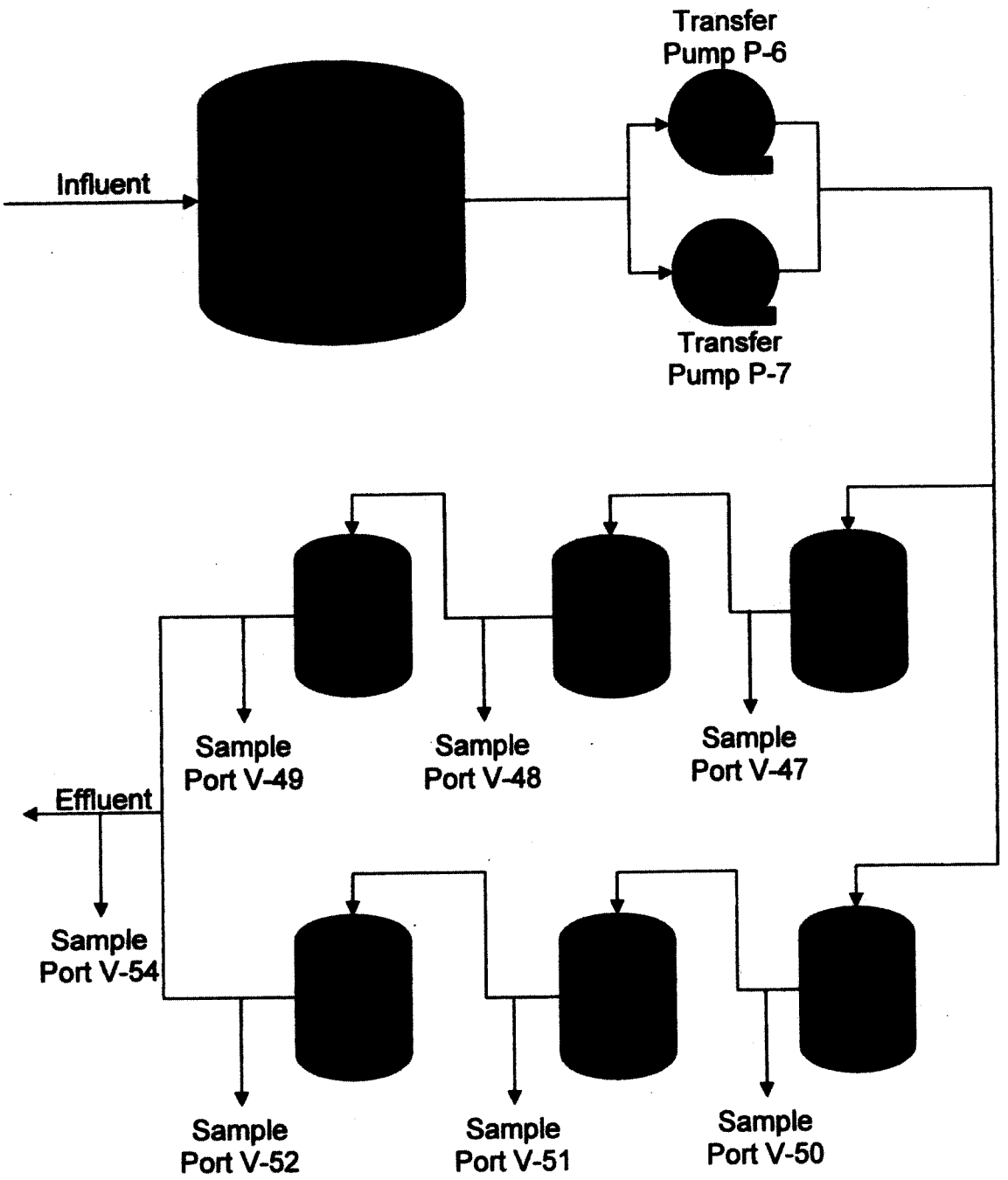


TABLE 2: UPPER BLACK CREEK AQUIFER GROUNDWATER MONITORING SUMMARY

PARAMETER	ANALYTICAL DATA						PERFORM STAND
SAMPLE LOCATION	MW-18D	MW-20D	MW-22D	MW-23D	MW-26D	MW-30D	
DATE COLLECTION	10/11/2011	10/11/2011	10/12/2011	10/12/2011	10/12/2011	10/11/2011	
Aldrin	0.048 U	NS	0.053 U	0.049 U	0.051 U	0.048 U	0.0
alpha-BHC	**0.28**	NS	0.032 J	0.033 J	0.014 J	**0.10**	0.0
beta-BHC	**1.1 D**	NS	**0.14 p**	0.028 Jp	0.013 Jp	**3.3 D**	0.0
delta-BHC	**0.24**	NS	**0.11**	0.049 U	0.051 U	**0.44**	0.0
gamma-BHC (Lindane)	**0.24**	NS	0.018 Jp	0.020 Jp	0.029 J	0.087	0.2
alpha-Chlordane	0.048 U	NS	0.053 U	0.049 U	0.051 U	0.048 U	NE
gamma-Chlordane	0.048 U	NS	0.053 U	0.049 U	0.051 U	0.048 U	NE
Dieldrin	0.090 J	NS	0.11 U	0.098 U	0.10 U	**0.29**	0.1
4,4'-DDD	0.096 U	NS	0.11 U	0.098 U	0.10 U	0.096 U	NE
4,4'-DDE	0.096 U	NS	0.11 U	0.098 U	0.10 U	0.096 U	NE
4,4'-DDT	0.096 U	NS	0.11 U	0.098 U	0.10 U	0.096 U	NE
Endosulfan I	0.048 U	NS	0.053 U	0.049 U	0.051 U	0.048 U	NE
Endosulfan II	0.096 U	NS	0.11 U	0.098 U	0.10 U	0.096 U	NE
Endosulfan sulfate	0.096 U	NS	0.11 U	0.098 U	0.10 U	0.096 U	NE
Endrin	0.096 U	NS	0.11 U	0.098 U	0.10 U	0.096 U	NE
Endrin aldehyde	0.096 U	NS	0.11 U	0.098 U	0.10 U	0.096 U	NE
Endrin ketone	**0.17**	NS	0.11 U	0.098 U	0.10 U	**0.43**	0.1
Heptachlor	0.048 U	NS	0.053 U	0.049 U	0.051 U	0.048 U	NE
Heptachlor epoxide	0.048 U	NS	0.053 U	0.049 U	0.051 U	0.048 U	NE
Methoxychlor	0.096 U	NS	0.11 U	0.098 U	0.10 U	0.096 U	NE
Toxaphene	**1.2 Jp**	NS	5.3 U	4.9 U	5.1 U	**4.3 Jp**	1
Trichloroethene	24	NS	NA	NA	NA	2.9	**

NOTES:

Results are presented in micrograms per liter
J = Estimated value less than the reporting limit but greater than the method detection limit
U = Indicates the analyte was not detected
p = The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported
D = Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution may be flagged with a D
NE = No standard established
** = Trichloroethene is not a COC for the Geigy site
NA = Not analyzed for this compound
Bold = Concentration exceeds performance standard or method detection limits if no standard is established
NS = Not sampled

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TABLE 3: LOWER BLACK CREEK AQUIFER GROUNDWATER MONITORING SUMMARY

PARAMETER							ANAL
SAMPLE LOCATION	MW-22L	MW-25L	MW-27L	MW-31L	MW-32L	MW-36L	
DATE COLLECTED	10/12/2011	10/12/2011	1/10/1900	10/12/2011	10/12/2011	10/12/2011	1
Aldrin	0.049 U	0.050 U	0.050 U	0.054 U	0.052 U	0.048 U	
alpha-BHC	**0.27**	**0.87 D**	**1.0 D**	**0.59**	0.052 U	0.048 U	
beta-BHC	**0.52 p**	**0.54 p**	**2.2 D**	**0.65**	0.052 U	0.048 U	
delta-BHC	**0.51**	**1.1 D**	**2.7 D**	**0.69**	0.052 U	0.048 U	
gamma-BHC (Lindane)	**0.24**	0.15	**0.22**	0.16	0.052 U	0.048 U	
alpha-Chlordane	0.049 U	0.050 U	0.050 U	0.054 U	0.052 U	0.048 U	
gamma-Chlordane	0.049 U	0.050 U	0.050 U	0.054 U	0.052 U	0.048 U	
Dieldrin	0.059 J	0.099 U	**0.11**	0.11 U	0.10 U	0.097 U	
4,4'-DDD	0.097 U	0.099 U	0.10 U	0.11 U	0.10 U	0.097 U	
4,4'-DDE	0.097 U	0.099 U	0.024 Jp	0.11 U	0.10 U	0.097 U	
4,4'-DDT	0.097 U	0.099 U	0.10 U	0.11 U	0.10 U	0.097 U	
Endosulfan I	0.49 U	0.050 U	0.050 U	0.054 U	0.052 U	0.048 U	
Endosulfan II	0.097 U	0.099 U	0.10 U	0.11 U	0.10 U	0.097 U	
Endosulfan sulfate	0.097 U	0.099 U	0.10 U	0.11 U	0.10 U	0.097 U	
Endrin	0.097 U	0.099 U	0.10 U	0.11 U	0.10 U	0.097 U	
Endrin aldehyde	0.097 U	0.099 U	0.10 U	0.11 U	0.10 U	0.097 U	
Endrin ketone	0.097 U	0.099 U	**0.22**	0.021 Jp	0.10 U	0.097 U	
Heptachlor	0.049 U	0.050 U	0.050 U	0.054 U	0.052 U	0.048 U	
Heptachlor epoxide	0.049 U	0.050 U	0.050 U	0.054 U	0.052 U	0.048 U	
Methoxychlor	0.097 U	0.099 U	0.10 U	0.11 U	0.10 U	0.097 U	
Toxaphene	4.9 U	5.0 U	5.0 U	5.4 U	5.2 U	4.8 U	

NOTES:

Results are presented in micrograms per liter

D = Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds

J = Estimated value less than the reporting limit, but greater than or equal to the method detection limit

U = Indicates the analyte was not detected.

p = The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.

NE = Not established

Bold = Concentration exceeds performance standard or method detection limits if no standard is established

* = LCS or LCSD exceeds the control limits

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TABLE 4: INFLUENT AND EFFLUENT MONITORING SUMMARY

PARAMETER	ANNUAL EVENT		PERFORMANCE STANDARD
SAMPLE LOCATON	INFLUENT	EFFLUENT	
DATE COLLECTED	10/13/2011	10/13/2011	
Aldrin	0.050 U	0.048 U	0.05
alpha-BHC	**0.071**	0.048 U	0.05
beta-BHC	**2.4 D**	0.048 U	0.05
delta-BHC	**0.60**	0.048 U	0.05
gamma-BHC (Lindane)	0.11	0.048 U	0.2
alpha-Chlordane	0.050 U	0.048 U	NE
gamma-Chlordane	0.050 U	0.048 U	NE
Dieldrin	**0.26**	0.096 U	0.1
4,4'-DDD	0.099 U	0.096 U	NE
4,4'-DDE	**0.073 J**	0.096 U	NE
4,4'-DDT	0.099 U	0.096 U	NE
Endosulfan I	0.050 U	0.048 U	NE
Endosulfan II	0.099 U	0.096 U	NE
Endosulfan sulfate	0.099 U	0.096 U	NE
Endrin	0.099 U	0.096 U	NE
Endrin aldehyde	0.099 U	0.096 U	NE
Endrin ketone	**0.25**	0.096 U	0.1
Heptachlor	0.050 U	0.048 U	NE
Heptachlor epoxide	0.050 U	0.048 U	NE
Methoxychlor	0.099 U	0.096 U	NE
Toxaphene	**1.4 Jp**	4.8 U	1
Trichloroethene	2.0	1.0 U	**

NOTES:

Results are presented in micrograms per liter
U = Indicates the analyte was not detected
NE = No standard established
J = Estimated value less than the reporting limit but greater than the method detection limit
p = The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.
** = Trichloroethene is not a COC for the Geigy site
Bold = Influent concentration exceeds performance standard or method detection limits if no standard is established
D = compound analyzed with a dilution

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TABLE 5: ON SITE GROUNDWATER MONITORING SUMMARY

PARAMETER					
SAMPLE LOCATION	MW-4S	MW-5S	MW-6S	MW-10S	MW-16S
DATE COLLECTED	10/11/2011	10/11/2011	10/11/2011	10/11/2011	10/11/2011
Aldrin	0.050 U	0.053 U	0.049 U	0.051 U	0.050 U
alpha-BHC	0.013 J	0.053 U	**0.098**	0.013 J	0.050 U
beta-BHC	**1.1 D**	**0.93 D**	**5.9 D**	**1.6 D**	0.050 U
delta-BHC	**0.21 D**	**0.10**	**1.1 D**	0.047 J	0.050 U
gamma-BHC (Lindane)	0.018 Jp	0.053 U	0.054 p	0.0098 Jp	0.050 U
alpha-Chlordane	0.050 U	0.053 U	0.049 U	0.51 U	0.050 U
gamma-Chlordane	0.050 U	0.053 U	0.049 U	0.51 U	0.050 U
Dieldrin	**0.13**	**0.13**	**0.33**	**0.17**	0.10 U
4,4'-DDD	0.099 U	0.11 U	0.099 U	0.10 U	0.10 U
4,4'-DDE	**0.067 Jp**	0.11 U	0.099 U	0.10 U	0.10 U
4,4'-DDT	0.099 U	0.11 U	0.099 U	0.10 U	0.10 U
Endosulfan I	0.050 U	0.053 U	0.049 U	0.051 U	0.050 U
Endosulfan II	0.099 U	0.11 U	0.099 U	0.10 U	0.10 U
Endosulfan sulfate	0.099 U	0.11 U	0.099 U	0.10 U	0.10 U
Endrin	0.099 U	0.11 U	0.099 U	0.10 U	0.10 U
Endrin aldehyde	0.099 U	0.11 U	0.099 U	0.10 U	0.10 U
Endrin ketone	0.086 J	**0.10 J**	**0.32**	**0.28**	0.10 U
Heptachlor	0.050 U	0.053 U	0.049 U	0.051 U	0.050 U
Heptachlor epoxide	0.050 U	0.053 U	0.049 U	0.051 U	0.050 U
Methoxychlor	0.099 U	0.11 U	0.099 U	0.10 U	0.10 U
Toxaphene	5.0 U	**1.7 J**	**6.9**	**1.6 Jp**	5.0 U
Trichloroethene	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U

NOTES:

Results are presented in micrograms per liter

J = Estimated value less than the reporting limit but greater than the method detection limit

U = Indicates the analyte was not detected

D = Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also com may be flagged with a D.

p = The %RPD between the primary and confirmation column/detector is >40%. The lower value has been report

NE = No standard established

** = Trichloroethene is not a COC for the Geigy site

NA = Not analyzed for this compound

Bold = Concentration exceeds performance standard or method detection limits if no standard is established

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TABLE 6: GROUNDWATER EXTRACTION AND TREATMENT SYSTEM SUMMARY

LOCATION					
DATE	**24-Nov-10**	**16-Dec-10**	**13-Jan-11**	**15-Feb-11**	**3-Mar-1**
PW-1S	2,766,336	4,029,813	4,044,218	4,061,588	4,090,16
PW-1D	46,067,962	46,300,876	46,608,563	46,951,081	47,439,7
PW-2S	1,027,929	1,035,346	1,044,302	1,054,805	1,067,29
PW-2D	14,849,016	14,895,090	14,947,550	15,018,329	15,152,5
PW-3S	1,112,508	1,115,852	1,120,234	1,125,147	1,129,21
PW-3D	9,737,075	9,805,185	9,890,924	9,935,625	9,940,62
PW-4S	16,608,617	16,608,617	16,608,617	16,654,771	16,695,1
Extraction Wells	92,169,443	93,790,779	94,264,408	94,801,346	95,514,7
Treatment Building	99,859,710	100,244,306	101,736,002	101,298,412	102,034,4
Difference	7,690,267	6,453,527	7,471,594	6,497,066	6,519,65
% Difference	7.7%	6.4%	7.3%	6.4%	6.4%

LOCATION					
TIME PERIOD	**14-Oct-10 24-Nov-10**	**24-Nov-10 16-Dec-10**	**16-Dec-10 13-Jan-11**	**13-Jan-11 15-Feb-11**	**15-Feb-1 3-Mar-1**
DAYS IN PERIOD	41	28	28	33	16
TOTAL DAYS OF OPERATION	5,019	5,047	5,075	5,108	5,124
Average Daily Volume (gallons)					
PW-1S	-29,687	45,124	514	526	1,786
PW-1D	532	8,318	10,989	10,379	30,543
PW-2S	3,532	265	320	318	781
PW-2D	25,263	1,646	1,874	2,145	8,391
PW-3S	1,601	119	157	149	254
PW-3D	17,089	2,433	3,062	1,355	313
PW-4S	28,430	0	0	1,399	2,521
Extraction Wells	46,760	57,905	16,915	16,271	44,588
Average Flow Rate (gallons per minute)					
PW-1S	-0.05	0.03	2.80	2.74	0.81
PW-1D	2.71	0.17	0.13	0.14	0.05
PW-2S	0.41	5.44	4.50	4.52	1.84
PW-2D	0.06	0.88	0.77	0.67	0.17
PW-3S	0.90	12.06	9.20	9.67	5.67
PW-3D	0.08	0.59	0.47	1.06	4.61
PW-4S	0.05	---	---	1.03	0.57
EXTRACTION WELLS	4.16	19.17	17.87	19.84	13.72
SYSTEM TO DATE	13.82	13.79	13.92	13.77	13.83

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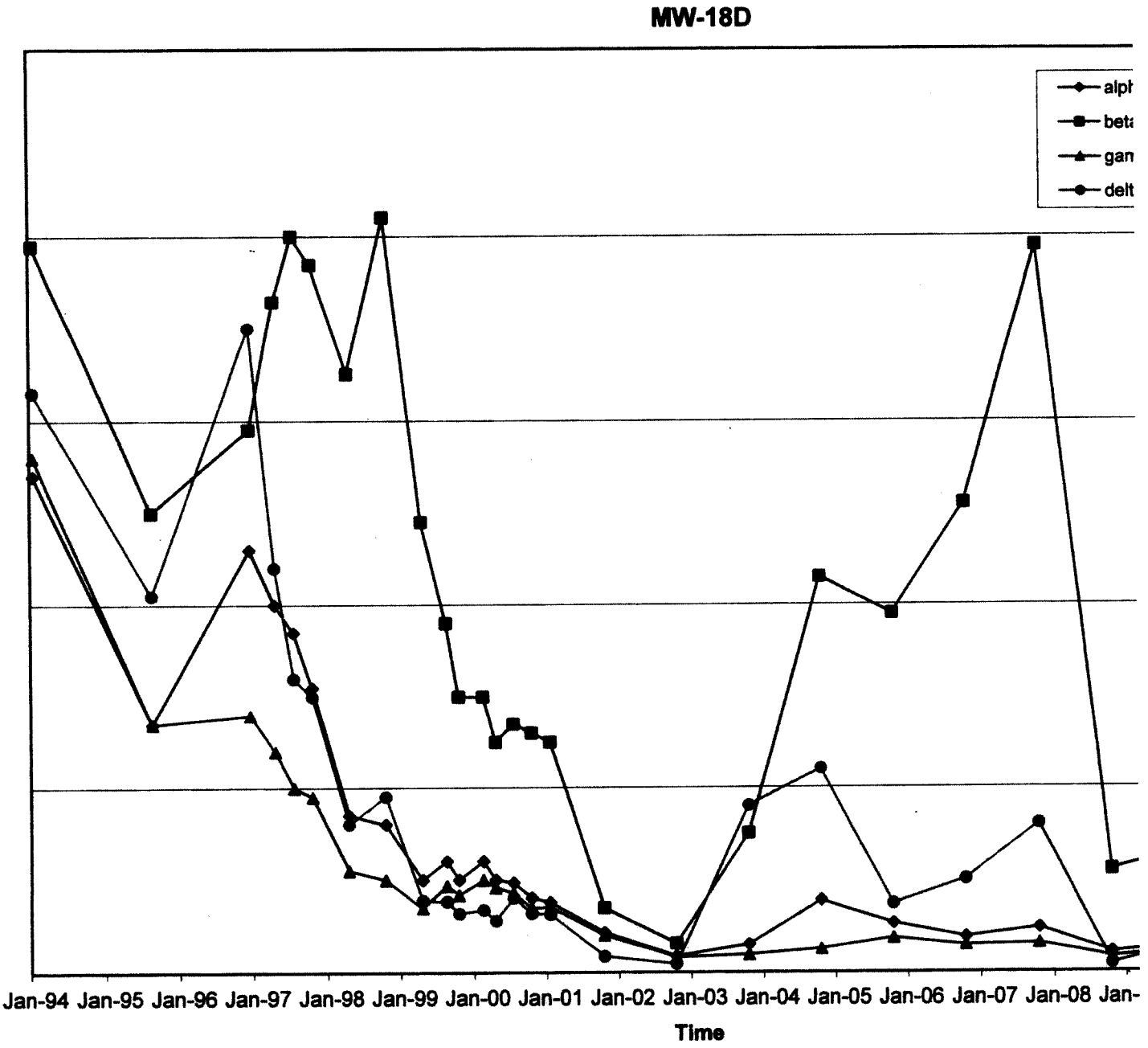
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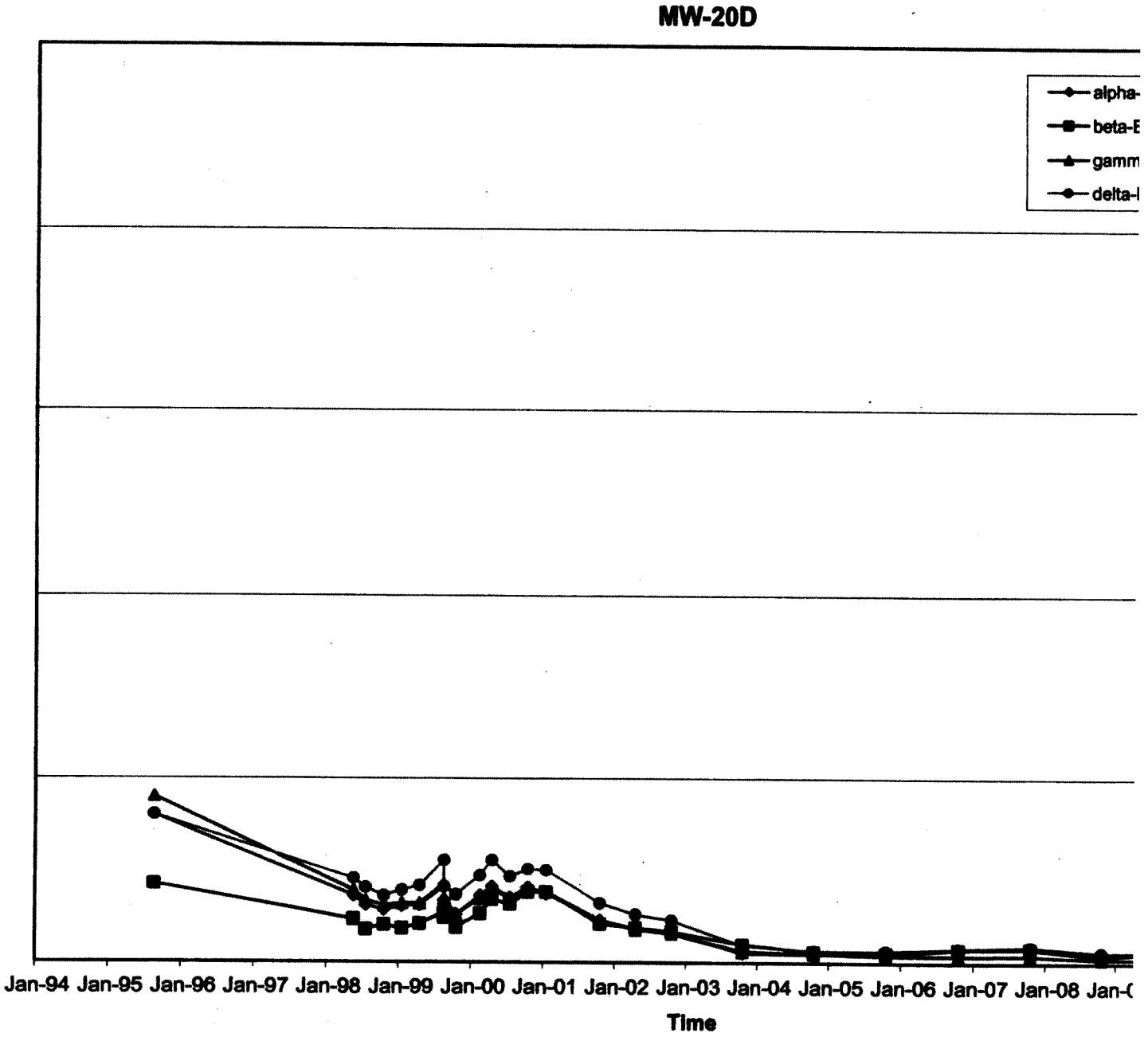
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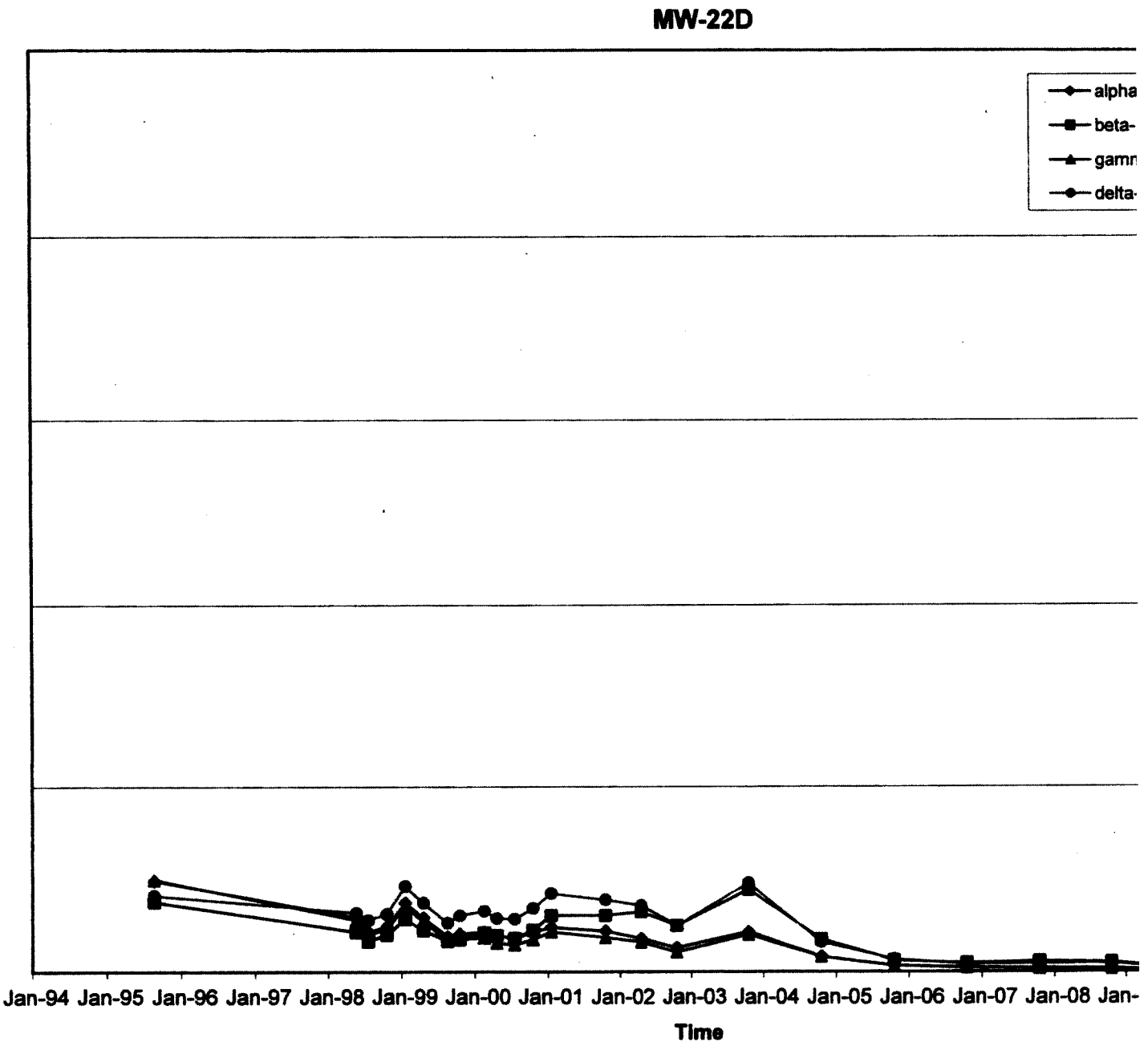
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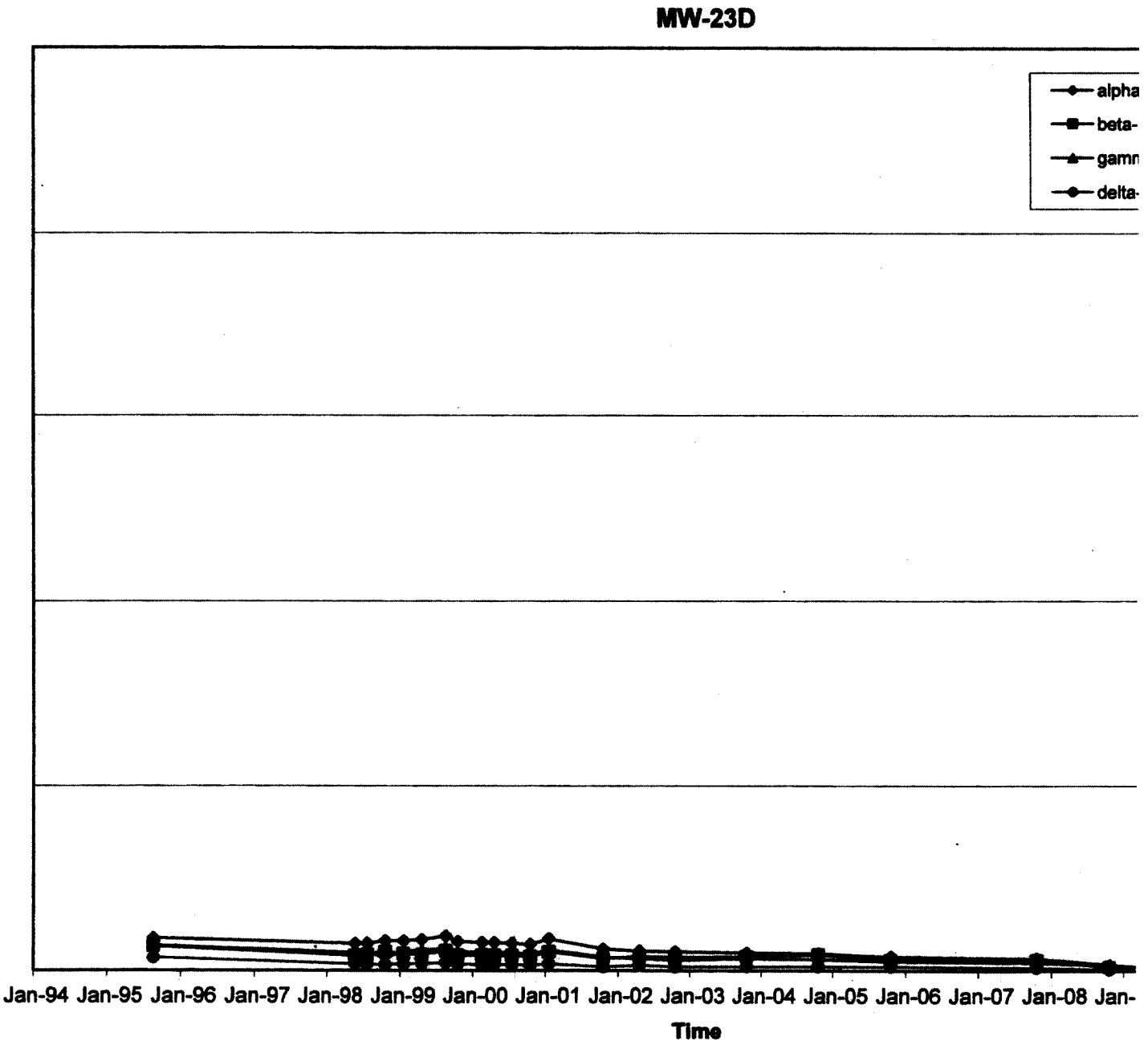
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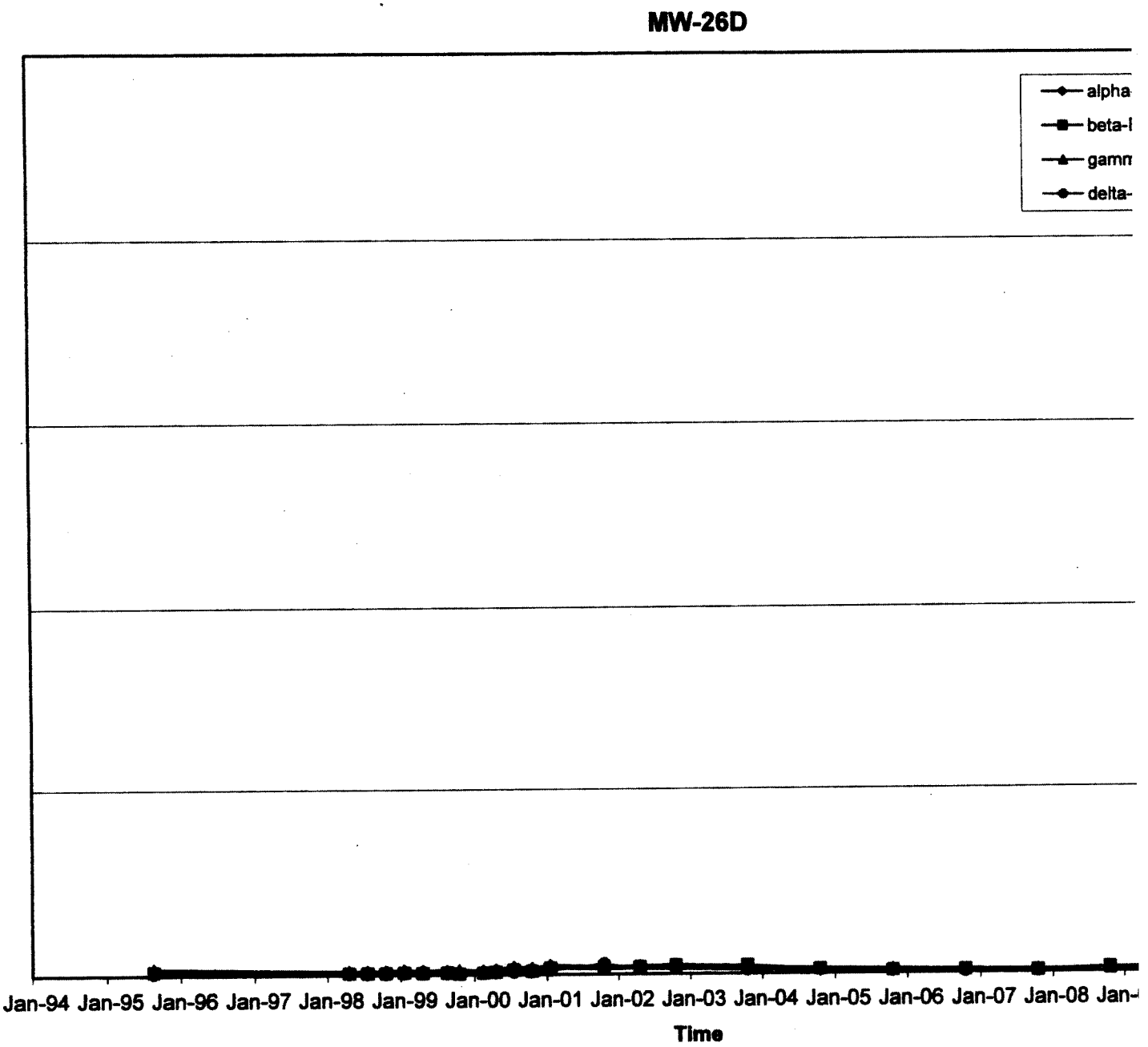
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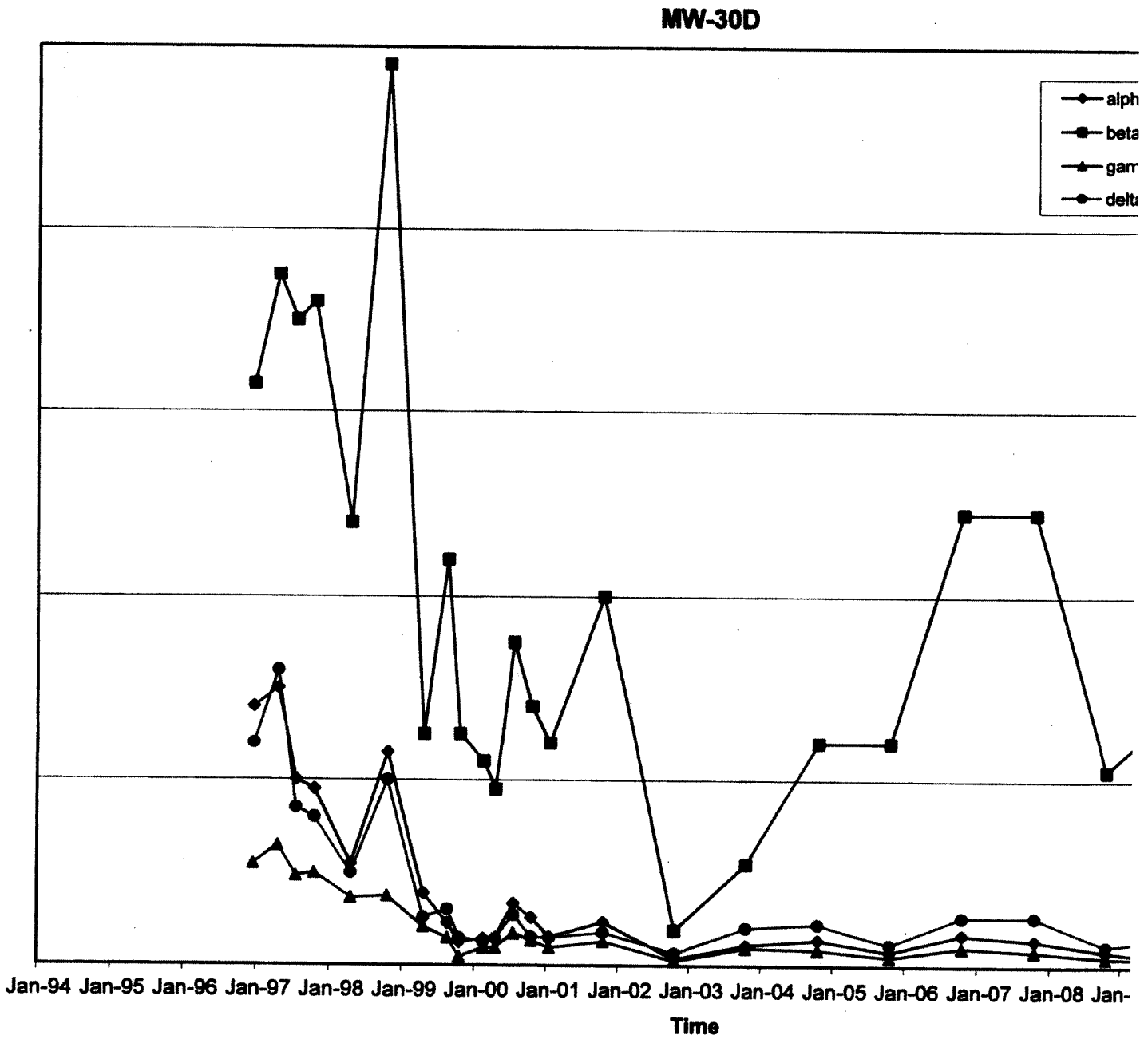
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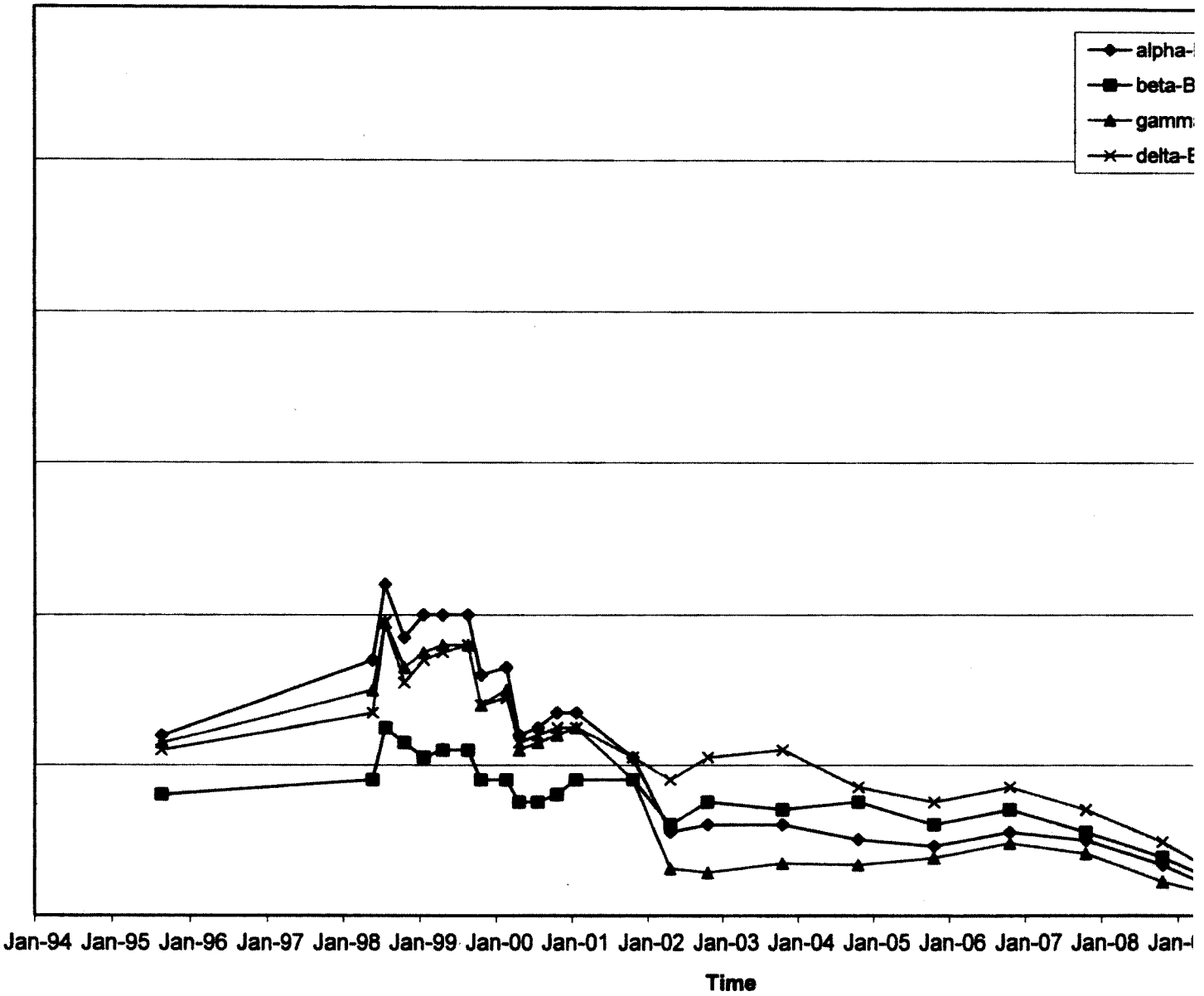
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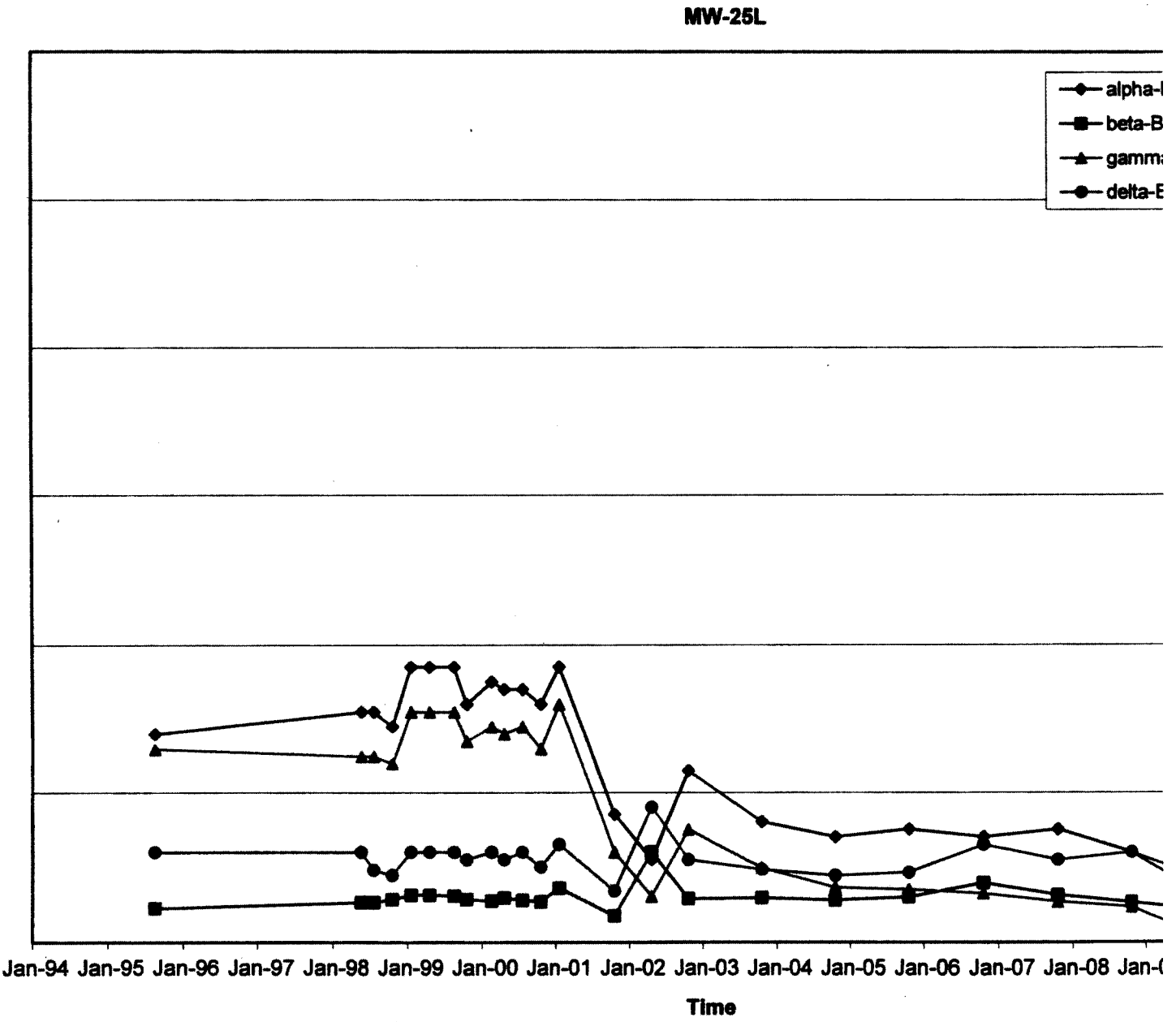
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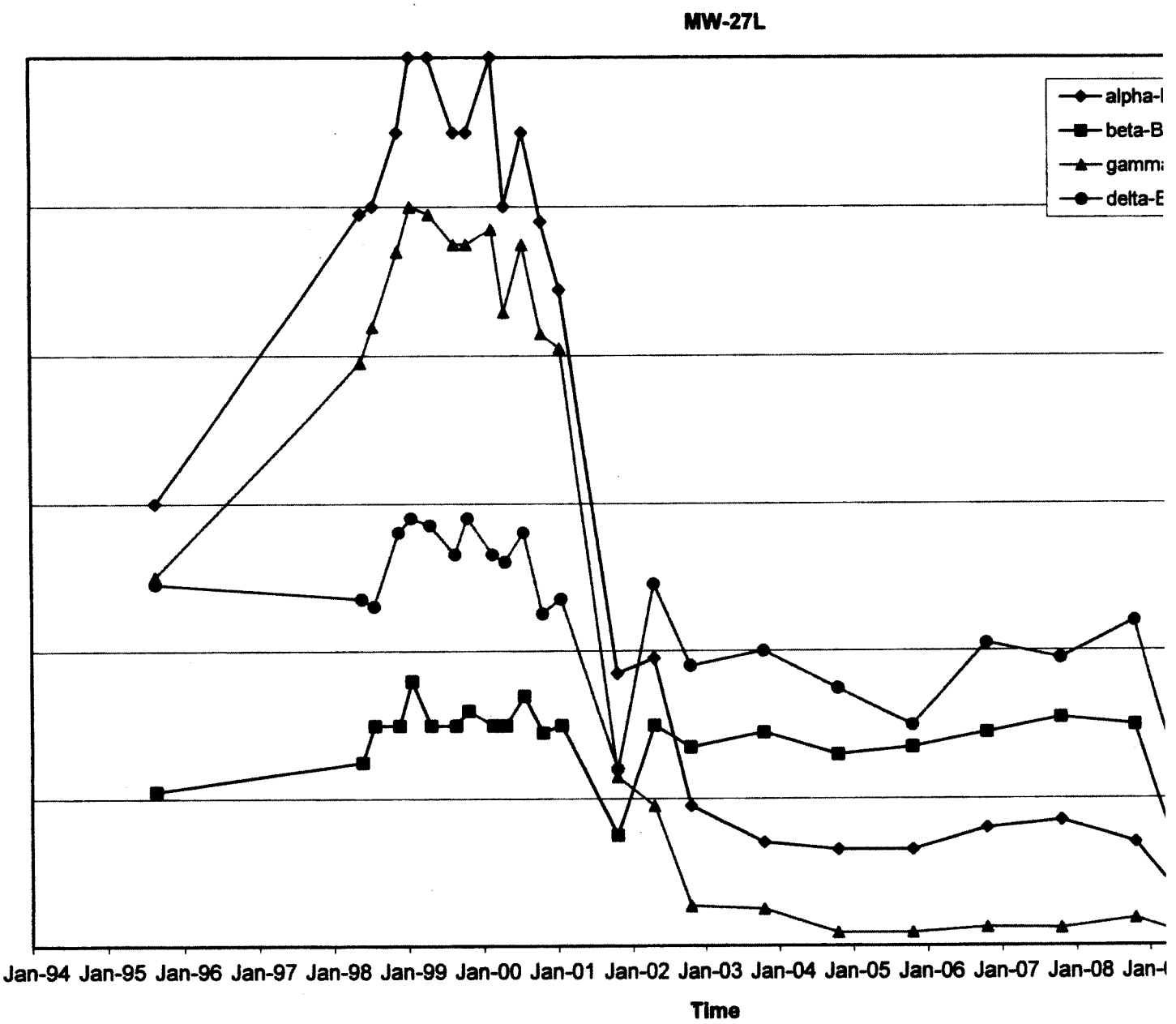
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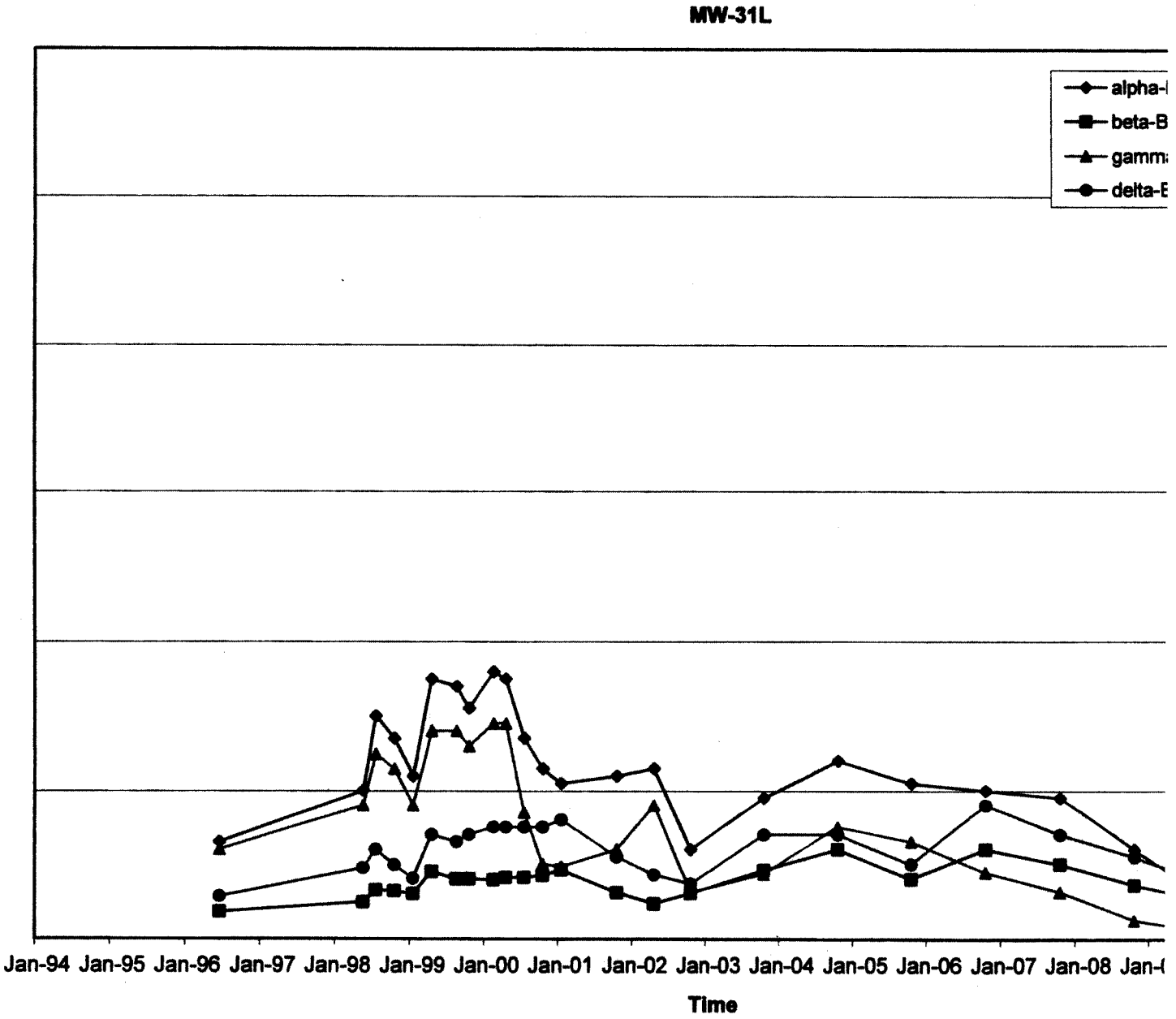
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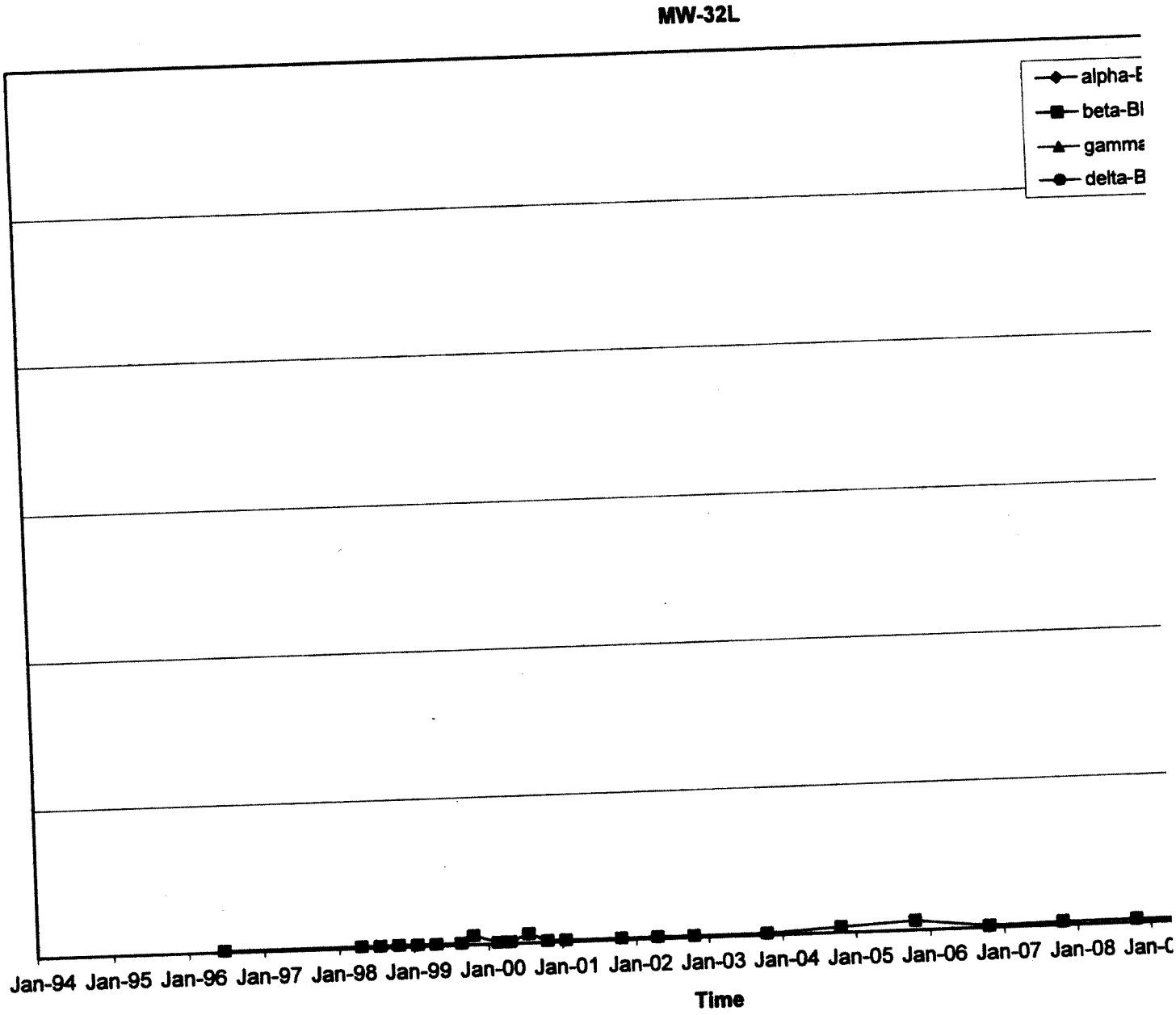
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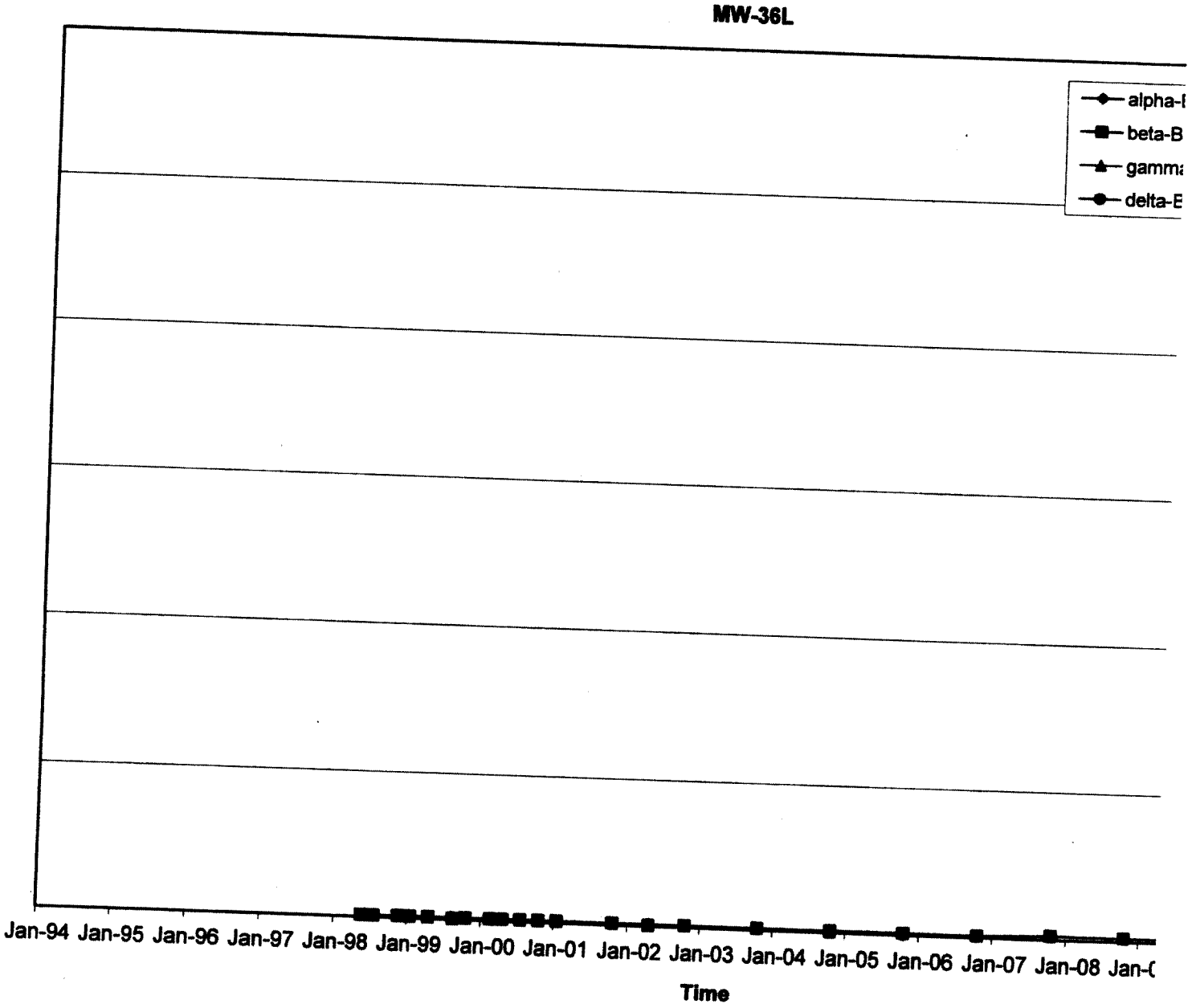
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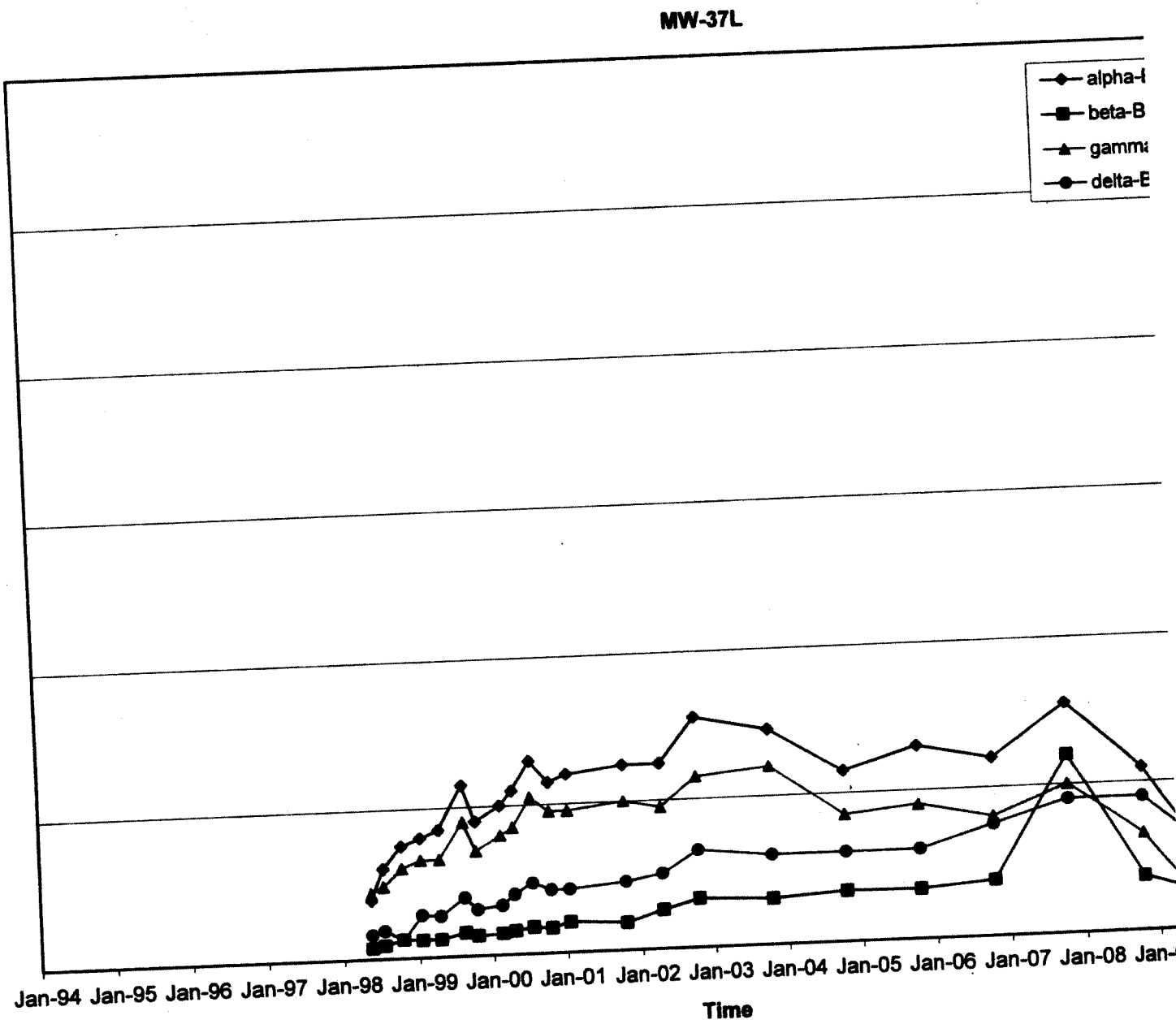
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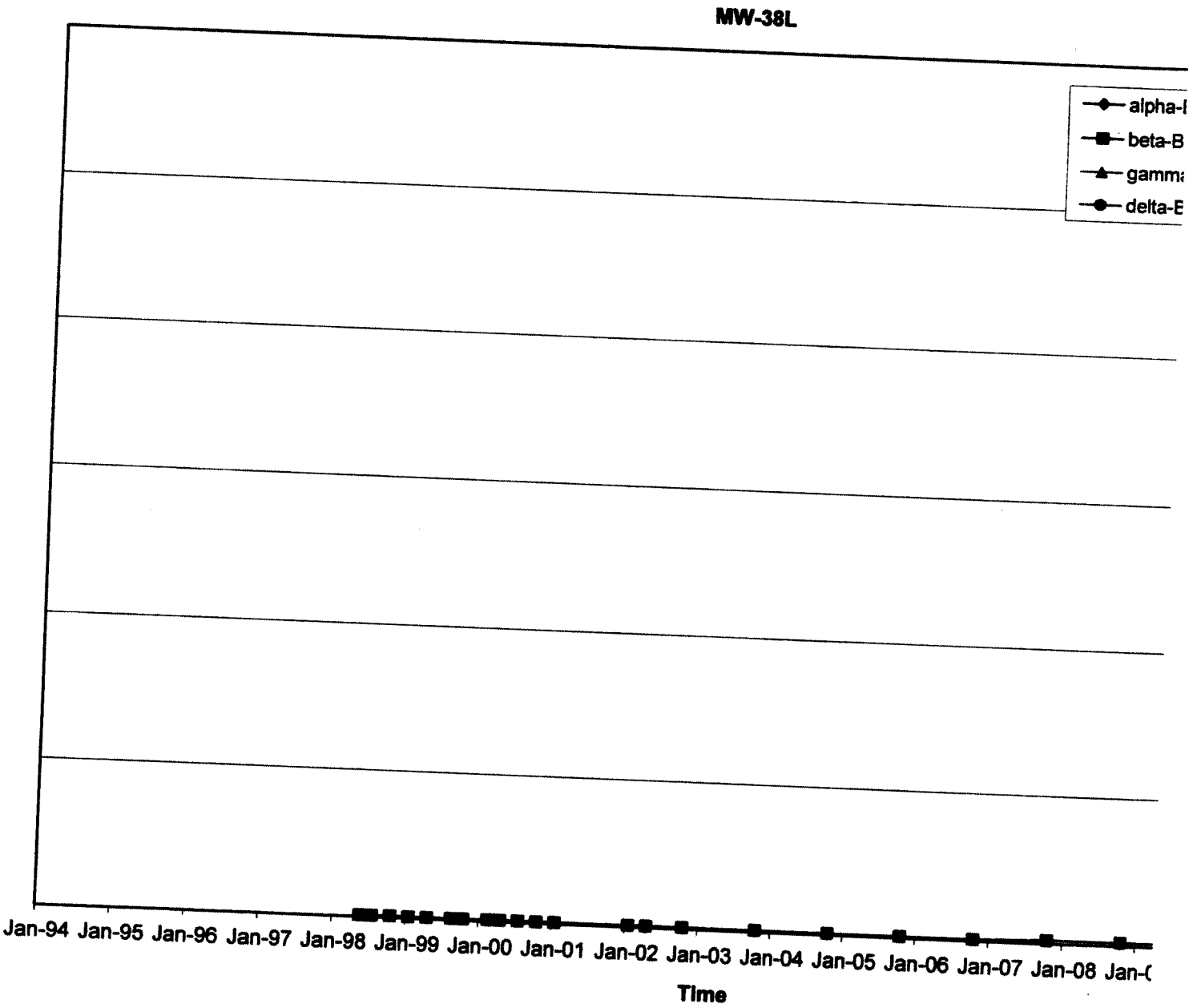
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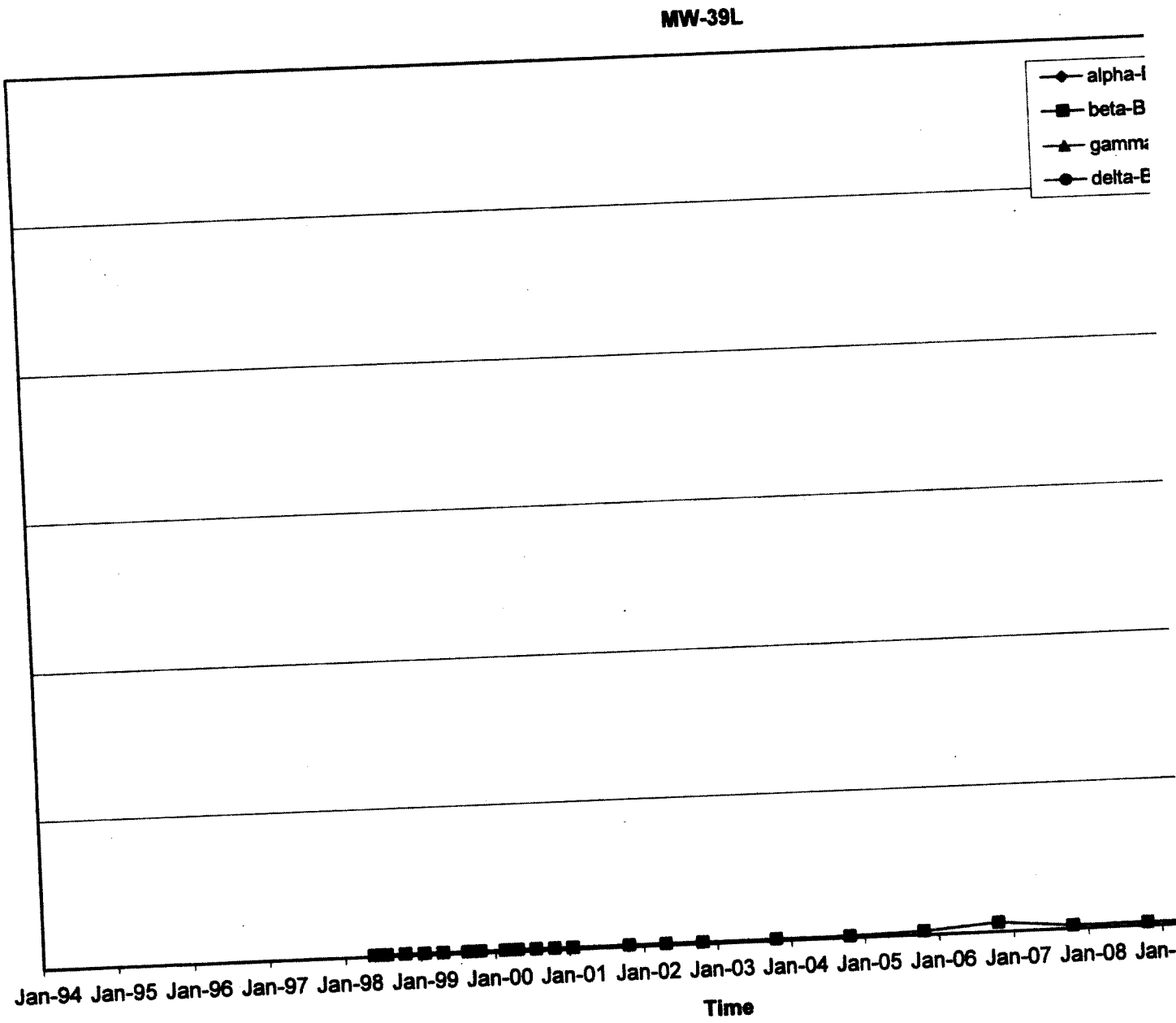
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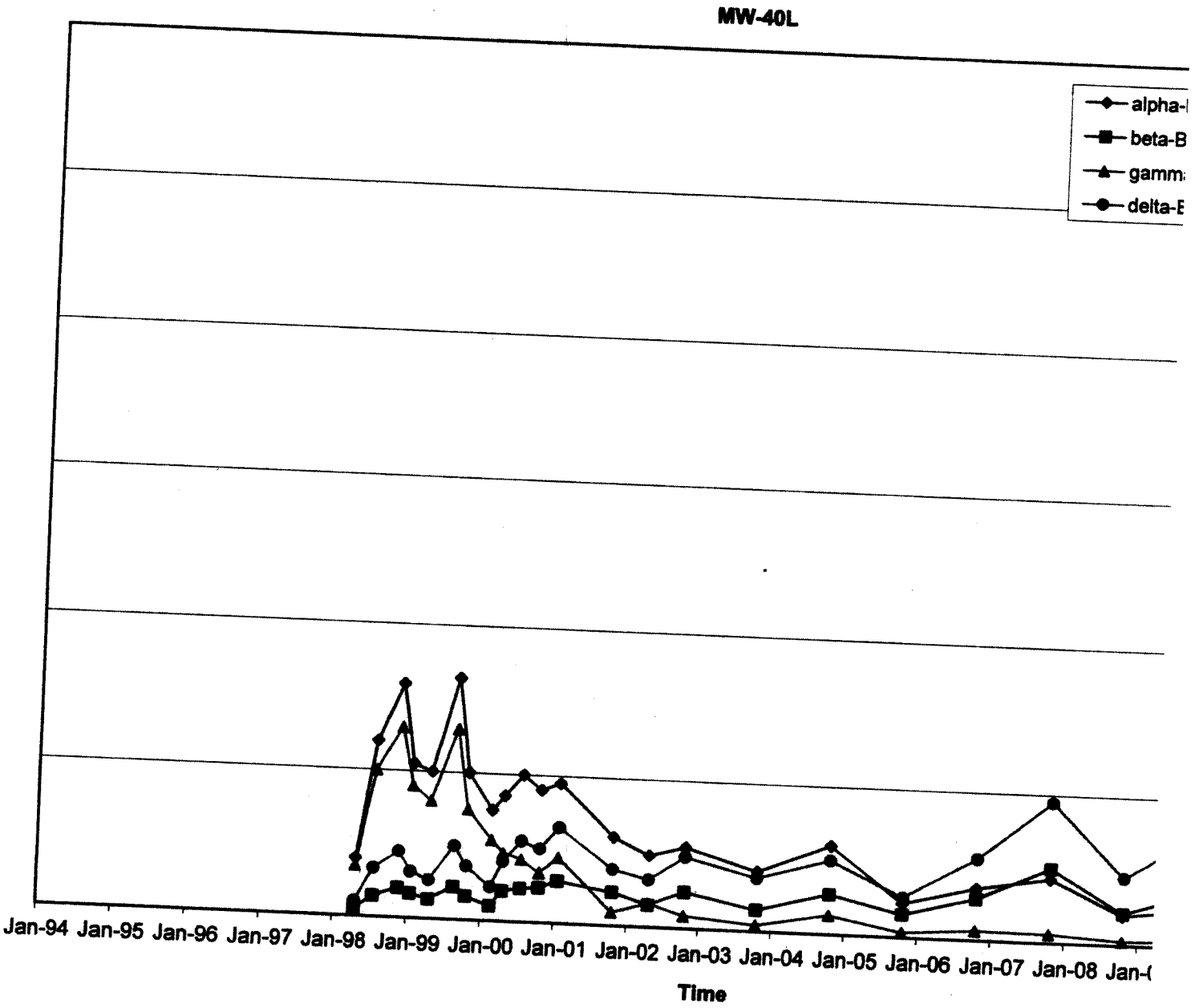
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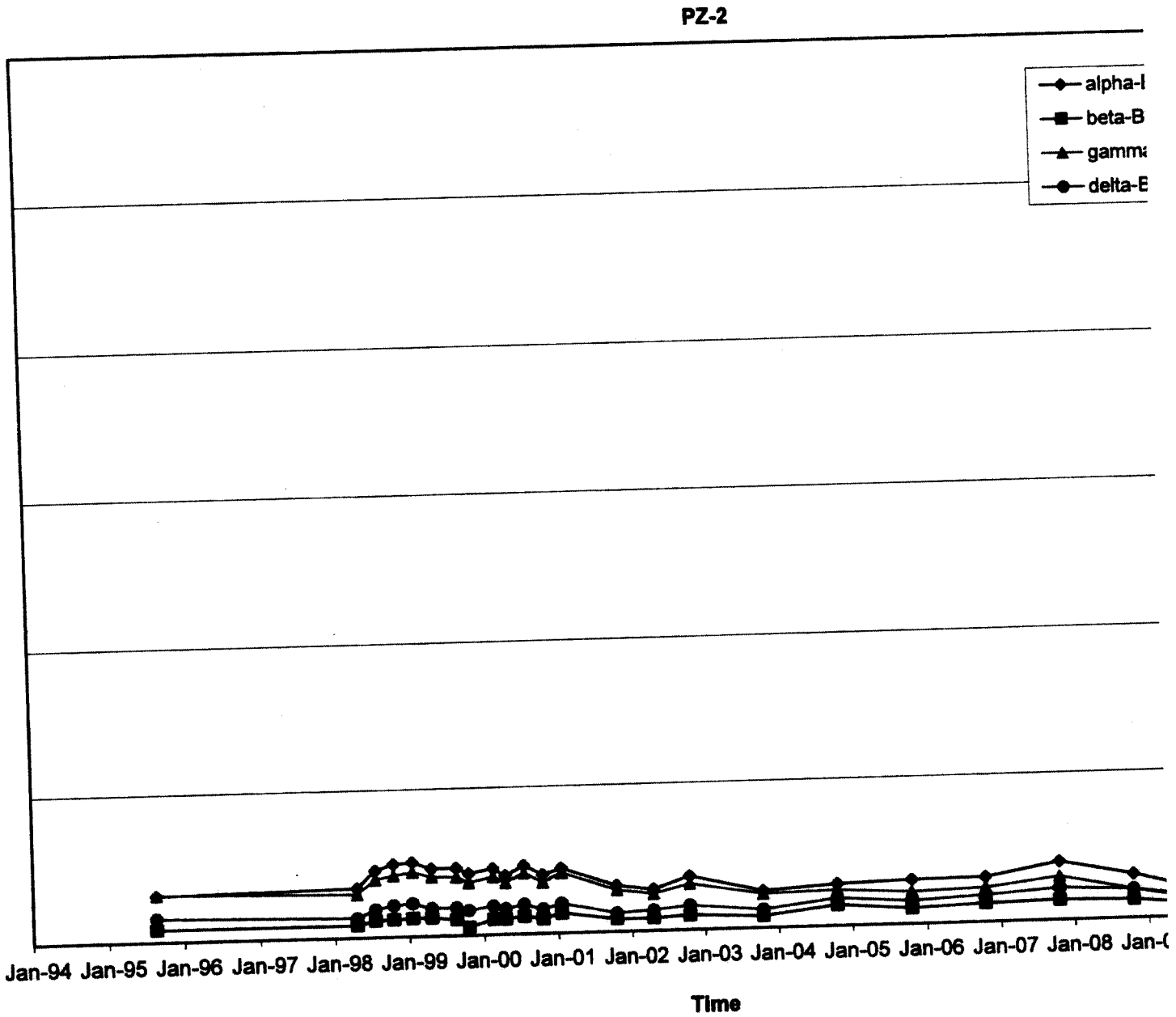
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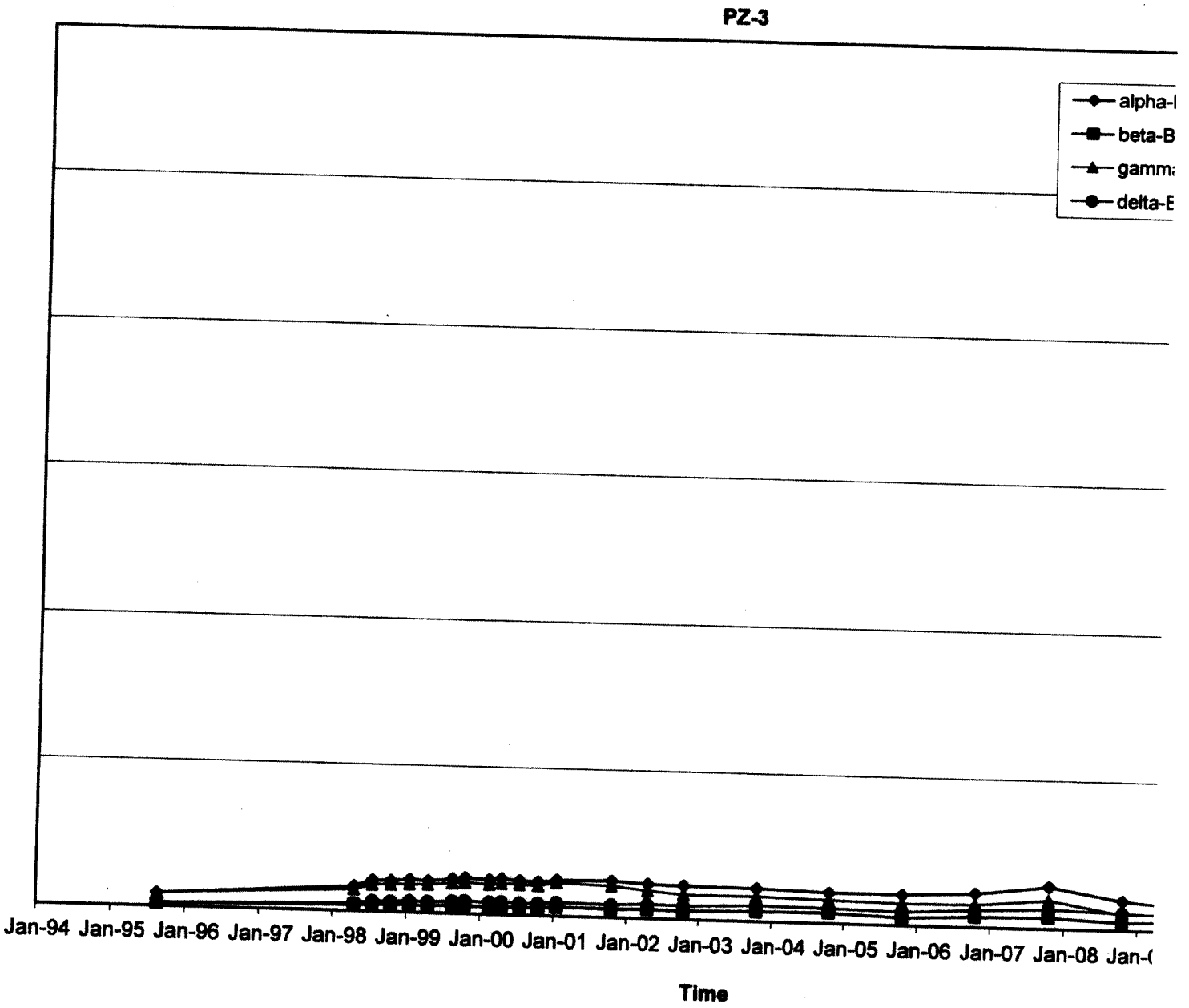
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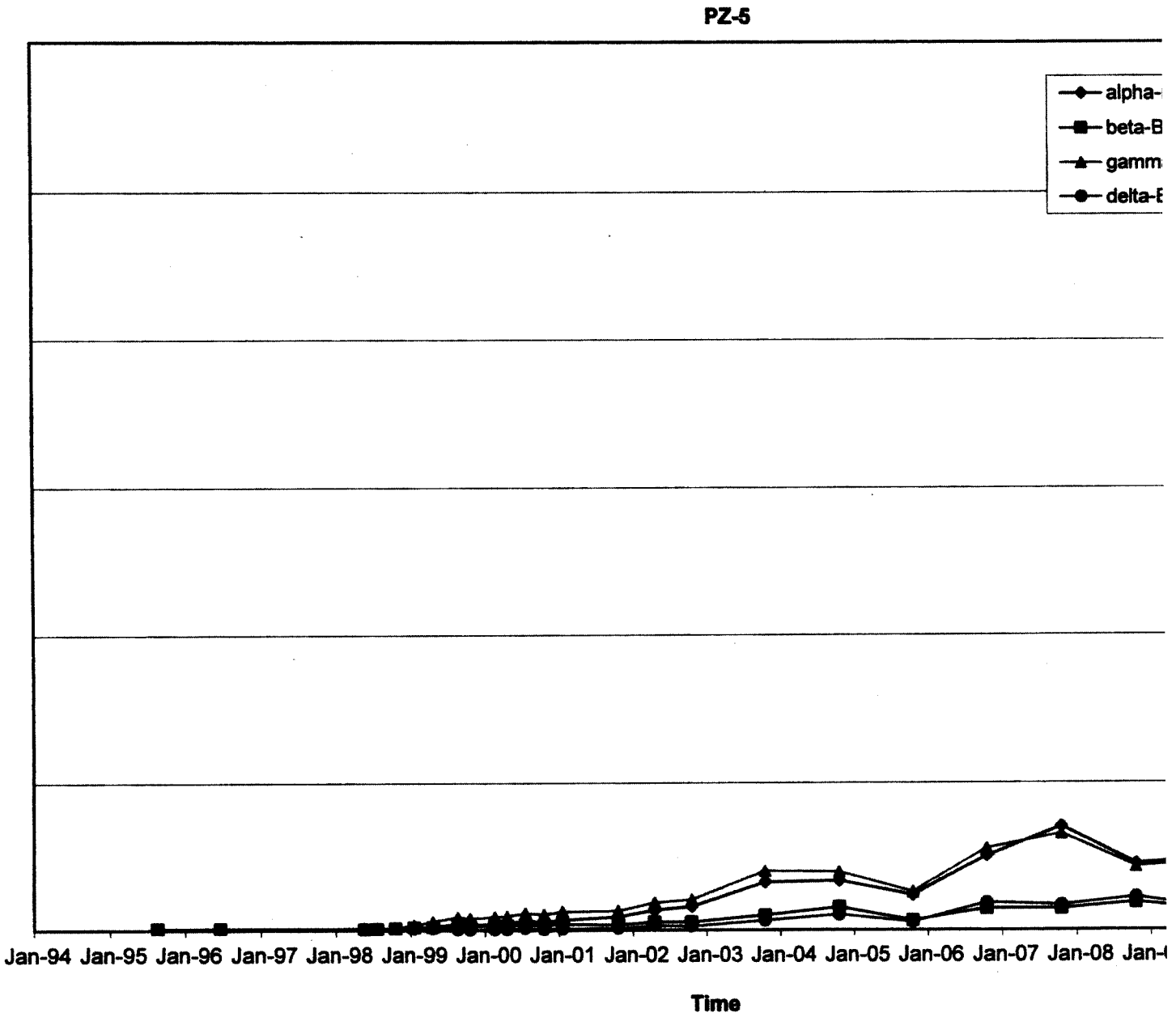
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Jan-05
Jan-06
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Time

SUBMIT FORM ON YELLOW PAPER ONLY

GROUNDWATER QUALITY MONITORING: COMPLIANCE REPORT FORM

Mail original and 1 copy to: DEPARTMENT OF ENVIRONMENT & NATUR DIVISION OF WATER QUALITY-INFORMATI 1617 MAIL SERVICE CENTER, RALEIGH, NC

FACILITY INFORMATION *Please Print Clearly or Type*

Facility Name: Geigy Chemical Corporation Site

Permit Name (if different):

Facility Address: Domino Drive (Street)

Aberdeen (City) NC (State) 28315 (Zip) County Moore

Contact Person: James Cashwell Telephone#: 423.336.4012

Well Location/Site Name: No. of wells to be sampled: (See Permit)

PERMIT Number: Ex

Non-Discharge WQ0009949

NPDES

TYPE OF PERMITTED OPERATION

- ☐ Lagoon ☐
- ☐ Spray Field ☒
- ☐ Rotary Distributor ☐
- ☐ Water Source Heat Pump ☐

SAMPLING INFORMATION

WELL ID NUMBER (from Permit): MW-4S Date sample collected: 10/11/11

Well Depth: 41.97 ft. Well Diameter: 2 in.

Depth to Water Level: 40.83 ft. below measuring point Screened Interval: 31.9 ft. to 41.9 ft.

Measuring Point is ____ ft. above land surface Relative M.P. Elevation: 473.49 ft.

Volume of water pumped/bailed before sampling: 0 gallons

Samples for metals were collected unfiltered: ☐ YES ☐ NO and field acidified: ☐ YES ☐ NO

FIELD ANALYSES:

pH ____ units Temp

Spec. Cond. ____

Odor ____

Appearance ____

LABORATORY INFORMATION

Date sample analyzed: 10/21/11 - TCE and PEST Laboratory Name: Test America Certificati

PARAMETERS NOTE: Values should reflect dissolved and colloidal concentrations.

COD	mg/l	Nitrite (NO_2) as N	mg/l	Pb - Lead	
Coliform: MF Fecal	/100ml	Nitrate (NO_3) as N	mg/l	Zn - Zinc	
Coliform: MF Total	/100ml	Phosphorus: Total as P	mg/l		
(Note: Use MPN method for highly turbid samples)		Orthophosphate	mg/l	Other (Specify Compounds an	
Dissolved Solids: Total	mg/l	Al - Aluminum	mg/l	TCL Pesticides - Results	
pH (when analyzed)	units	Ba - Barium	mg/l	TCE - Results attached	
TOC	mg/l	Ca - Calcium	mg/l		
Chloride	mg/l	Cd - Cadmium	mg/l		
Arsenic	mg/l	Chromium: Total	mg/l		
Grease and Oils	mg/l	Cu - Copper	mg/l	ORGANICS: (by GC, GC/MS,	
Phenol	mg/l	Fe - Iron	mg/l	(Specify test and method #. /	
Sulfate	mg/l	Hg - Mercury	mg/l	Report Attached? ☒	
Specific Conductance	µMhos	K - Potassium	mg/l	VOC	, me
Total Ammonia (Ammonia Nitrogen; NH_3 as N; Ammonia Nitrogen, Total)	mg/l	Mg - Magnesium	mg/l		, me
		Mn - Manganese	mg/l		, me
TKN as N	mg/l	Ni - Nickel	mg/l		, me

For Remediation Systems Only (Attach Lab Reports): Influent Total VOCs: ____ mg/L Effluent Total VOCs: ____

James Cashwell, P.E., Sr. Associate - Environmental Remediation

Permittee (or Authorized Agent) Name and Title - Please print or type

Signature of Permittee (or Authorized Agent)

GW-59 Rev. 1/2007

SUBMIT FORM ON YELLOW PAPER ONLY

GROUNDWATER QUALITY MONITORING: COMPLIANCE REPORT FORM

FACILITY INFORMATION *Please Print Clearly or Type*

Facility Name: Geigy Chemical Corporation Site

Permit Name (if different):

Facility Address: Domino Drive (Street)

Aberdeen (City) NC (State) 28315 (Zip) County Moore

Contact Person: James Cashwell Telephone#: 423.336.4012

Well Location/Site Name: No. of wells to be sampled: (from Permit)

PERMIT Number: Ex

Non-Discharge WQ0009949

NPDES

TYPE OF PERMITTED OPERATION

- ☐ Lagoon ☐
- ☐ Spray Field ☒
- ☐ Rotary Distributor ☐
- ☐ Water Source Heat Pump ☐

SAMPLING INFORMATION

WELL ID NUMBER (from Permit): MW-5S Date sample collected: 10/11/11

Well Depth: 47.44 ft. Well Diameter: 2 in.

Depth to Water Level: 43.3 ft. below measuring point Screened Interval: 37.4 ft. to 47.4 ft.

Measuring Point is _____ ft. above land surface Relative M.P. Elevation: 471.36 ft.

Volume of water pumped/bailed before sampling: 1 gallons

Samples for metals were collected unfiltered: ☐ YES ☐ NO and field acidified: ☐ YES ☐ NO

FIELD ANALYSES:

pH 4.02 units Tem

Spec. Cond.

Odor None

Appearance Clear

LABORATORY INFORMATION

Date sample analyzed: 10/21/11 - TCE and PEST Laboratory Name: Test America Certificat

PARAMETERS NOTE: Values should reflect dissolved and colloidal concentrations.

COD	mg/l	Nitrite (NO_2) as N	mg/l	Pb - Lead	
Coliform: MF Fecal	/100ml	Nitrate (NO_3) as N	mg/l	Zn - Zinc	
Coliform: MF Total	/100ml	Phosphorus: Total as P	mg/l		
(Note: Use MPN method for highly turbid samples)		Orthophosphate	mg/l	Other (Specify Compounds an	
Dissolved Solids: Total	mg/l	Al - Aluminum	mg/l	TCL Pesticides - Results	
pH (when analyzed)	units	Ba - Barium	mg/l	TCE - Results attached	
TOC	mg/l	Ca - Calcium	mg/l		
Chloride	mg/l	Cd - Cadmium	mg/l		
Arsenic	mg/l	Chromium: Total	mg/l		
Grease and Oils	mg/l	Cu - Copper	mg/l	ORGANICS: (by GC, GC/MS,	
Phenol	mg/l	Fe - Iron	mg/l	(Specify test and method #.	
Sulfate	mg/l	Hg - Mercury	mg/l	Report Attached? ☐	
Specific Conductance	µMhos	K - Potassium	mg/l	VOC	, me
Total Ammonia (Ammonia Nitrogen; NH_3 as N; Ammonia Nitrogen, Total)	mg/l	Mg - Magnesium	mg/l		, me
		Mn - Manganese	mg/l		, me
TKN as N	mg/l	Ni - Nickel	mg/l		, me

For Remediation Systems Only (Attach Lab Reports): Influent Total VOCs: _____ mg/L Effluent Total VOCs: _____

James Cashwell, P.E., Sr. Associate - Environmental Remediation

Permittee (or Authorized Agent) Name and Title - Please print or type

Signature of Permittee (or Authorized Agent)

GW-59 Rev. 1/2007

SUBMIT FORM ON YELLOW PAPER ONLY

GROUNDWATER QUALITY MONITORING: COMPLIANCE REPORT FORM

[illegible] and 1 copy to: DEPARTMENT OF ENVIRONMENT & NATU[illegible] DIVISION OF WATER QUALITY-INFORMATI[illegible] 1617 MAIL SERVICE CENTER, RALEIGH, N[illegible]

FACILITY INFORMATION *Please Print Clearly or Type*

Facility Name: Geigy Chemical Corporation Site

Permit Name (if different):

Facility Address: Domino Drive

Aberdeen NC 28315 County Moore

Contact Person: James Cashwell Telephone#: 423.336.4012

Well Location/Site Name: No. of wells to be sampled: (from Permit)

PERMIT Number: Ex

Non-Discharge WQ0009949

NPDES

TYPE OF PERMITTED OPERATIO[illegible]

- ☐ Lagoon ☐
- ☐ Spray Field ☒
- ☐ Rotary Distributor ☐
- ☐ Water Source Heat Pump ☐

SAMPLING INFORMATION

WELL ID NUMBER (from Permit): MW-6S Date sample collected: 10/11/11

Well Depth: 47.01 ft. Well Diameter: 2 in.

Depth to Water Level: 43.7 ft. below measuring point Screened Interval: 37. ft. to 47.0 ft.

Measuring Point is _____ ft. above land surface Relative M.P. Elevation: 464.73 ft.

Volume of water pumped/bailed before sampling: 0 gallons

Samples for metals were collected unfiltered: ☐YES ☐NO and field acidified: ☐YES ☐NO

FIELD ANALYSES:

pH ____ units Tem[illegible]

Spec. Cond. _____

Odor _____

Appearance _____

LABORATORY INFORMATION

Date sample analyzed: 10/21/11 - TCE and PEST Laboratory Name: Test America Certificat[illegible]

PARAMETERS NOTE: Values should reflect dissolved and colloidal concentrations.

COD	mg/l	Nitrite (NO_2) as N	mg/l	Pb - Lead	
Coliform: MF Fecal	/100ml	Nitrate (NO_3) as N	mg/l	Zn - Zinc	
Coliform: MF Total	/100ml	Phosphorus: Total as P	mg/l		
(Note: Use MPN method for highly turbid samples)		Orthophosphate	mg/l	Other (Specify Compounds ar[illegible]	
Dissolved Solids: Total	mg/l	Al - Aluminum	mg/l	TCL Pesticides - Results	
pH (when analyzed)	units	Ba - Barium	mg/l	TCE - Results attached	
TOC	mg/l	Ca - Calcium	mg/l		
Chloride	mg/l	Cd - Cadmium	mg/l		
Arsenic	mg/l	Chromium: Total	mg/l		
Grease and Oils	mg/l	Cu - Copper	mg/l	ORGANICS: (by GC, GC/MS,	
Phenol	mg/l	Fe - Iron	mg/l	(Specify test and method if[illegible]	
Sulfate	mg/l	Hg - Mercury	mg/l	Report Attached? ☐	
Specific Conductance	µMhos	K - Potassium	mg/l	VOC	, me[illegible]
Total Ammonia (Ammonia Nitrogen; NH_3 as N; Ammonia Nitrogen, Total)	mg/l	Mg - Magnesium	mg/l		, me[illegible]
		Mn - Manganese	mg/l		, me[illegible]
TKN as N	mg/l	Ni - Nickel	mg/l		, me[illegible]

For Remediation Systems Only (Attach Lab Reports): Influent Total VOCs: _____ mg/L Effluent Total VOCs: _____

James Cashwell, P.E., Sr. Associate - Environmental Remediation

Permittee (or Authorized Agent) Name and Title - Please print or type

Signature of Permittee (or Authorized Agent)

GW-59 Rev. 1/2007

SUBMIT FORM ON YELLOW PAPER ONLY

GROUNDWATER QUALITY MONITORING: COMPLIANCE REPORT FORM

DEPARTMENT OF ENVIRONMENT & NATU
DIVISION OF WATER QUALITY INFORMATI
1617 MAIL SERVICE CENTER, RALEIGH, N

FACILITY INFORMATION *Please Print Clearly or Type*

Facility Name: Geigy Chemical Corporation Site

Permit Name (if different):

Facility Address: Domino Drive (Street)

Aberdeen (City) NC (State) 28315 (Zip) County Moore

Contact Person: James Cashwell Telephone#: 423.336.4012

Well Location/Site Name: No. of wells to be sampled: (from Permit)

PERMIT Number: Ex

Non-Discharge WQ0009949

NPDES

TYPE OF PERMITTED OPERATIO

- ☐ Lagoon ☐
- ☐ Spray Field ☒
- ☐ Rotary Distributor ☐
- ☐ Water Source Heat Pump ☐

SAMPLING INFORMATION

WELL ID NUMBER (from Permit): MW-10S

Date sample collected: 10/11/11

Well Depth: 41.36 ft.

Well Diameter: 2 in.

Depth to Water Level: 33.25 ft. below measuring point

Screened Interval: 31.3 ft. to 41.3 ft.

Measuring Point is ____ ft. above land surface

Relative M.P. Elevation: 461.50 ft.

Volume of water pumped/bailed before sampling: 2 gallons

Samples for metals were collected unfiltered: ☐ YES ☐ NO and field acidified: ☐ YES ☐ NO

FIELD ANALYSES:

pH 4.29 units Tem

Spec. Cond.

Odor Septic

Appearance Clear

LABORATORY INFORMATION

Date sample analyzed: 10/21/11 - TCE and PEST

Laboratory Name: Test America

Certificat

PARAMETERS NOTE: Values should reflect dissolved and colloidal concentrations.

COD	mg/l	Nitrite (NO_2) as N	mg/l	Pb - Lead	
Coliform: MF Fecal	/100ml	Nitrate (NO_3) as N	mg/l	Zn - Zinc	
Coliform: MF Total	/100ml	Phosphorus: Total as P	mg/l		
(Note: Use MPN method for highly turbid samples)		Orthophosphate	mg/l	Other (Specify Compounds ar	
Dissolved Solids: Total	mg/l	Al - Aluminum	mg/l	TCL Pesticides - Results	
pH (when analyzed)	units	Ba - Barium	mg/l	TCE - Results attached	
TOC	mg/l	Ca - Calcium	mg/l		
Chloride	mg/l	Cd - Cadmium	mg/l		
Arsenic	mg/l	Chromium: Total	mg/l		
Grease and Oils	mg/l	Cu - Copper	mg/l	ORGANICS: (by GC, GC/MS,	
Phenol	mg/l	Fe - Iron	mg/l	(Specify test and method #.	
Sulfate	mg/l	Hg - Mercury	mg/l	Report Attached? ☐	
Specific Conductance	µMhos	K - Potassium	mg/l	VOC	, me
Total Ammonia	mg/l	Mg - Magnesium	mg/l		, me
(Ammonia Nitrogen; NH_3 as N; Ammonia Nitrogen, Total)		Mn - Manganese	mg/l		, me
TKN as N	mg/l	Ni - Nickel	mg/l		, me

For Remediation Systems Only (Attach Lab Reports): Influent Total VOCs: ____ mg/L Effluent Total VOCs: ____

James Cashwell, P.E., Sr. Associate - Environmental Remediation

Permittee (or Authorized Agent) Name and Title - Please print or type

Signature of Permittee (or Authorized Agent)

GW-59 Rev. 1/2007

SUBMIT FORM ON YELLOW PAPER ONLY

GROUNDWATER QUALITY MONITORING: COMPLIANCE REPORT FORM

[redacted]

FACILITY INFORMATION *Please Print Clearly or Type*

Facility Name: Geigy Chemical Corporation Site

Permit Name (if different):

Facility Address: Domino Drive (Street)

Aberdeen (City) NC (State) 28315 (Zip) County Moore

Contact Person: James Cashwell Telephone#: 423.336.4012

Well Location/Site Name: No. of wells to be sampled: (from Permit)

PERMIT Number: Ex

Non-Discharge WQ0009949

NPDES

TYPE OF PERMITTED OPERATION

- ☐ Lagoon ☐
- ☐ Spray Field ☒
- ☐ Rotary Distributor ☐
- ☐ Water Source Heat Pump ☐

SAMPLING INFORMATION

WELL ID NUMBER (from Permit): MW-16S Date sample collected: 10/11/11

Well Depth: 68.04 ft. Well Diameter: 2 in.

Depth to Water Level: 52.64 ft. below measuring point Screened Interval: 58. ft. to 68. ft.

Measuring Point is _____ ft. above land surface Relative M.P. Elevation: 484.58 ft.

Volume of water pumped/bailed before sampling: 3 gallons

Samples for metals were collected unfiltered: ☐ YES ☐ NO and field acidified: ☐ YES ☐ NO

FIELD ANALYSES:

pH 4.63 units Temp

Spec. Cond.

Odor None

Appearance Clear

LABORATORY INFORMATION

Date sample analyzed: 10/21/11 - TCE and PEST Laboratory Name: Test America Certificati

PARAMETERS NOTE: Values should reflect dissolved and colloidal concentrations.

COD	mg/l	Nitrite (NO_2) as N	mg/l	Pb - Lead	
Coliform: MF Fecal	/100ml	Nitrate (NO_3) as N	mg/l	Zn - Zinc	
Coliform: MF Total	/100ml	Phosphorus: Total as P	mg/l		
(Note: Use MPN method for highly turbid samples)		Orthophosphate	mg/l	Other (Specify Compounds an	
Dissolved Solids: Total	mg/l	Al - Aluminum	mg/l	TCL Pesticides - Results	
pH (when analyzed)	units	Ba - Barium	mg/l	TCE - Results attached	
TOC	mg/l	Ca - Calcium	mg/l		
Chloride	mg/l	Cd - Cadmium	mg/l		
Arsenic	mg/l	Chromium: Total	mg/l		
Grease and Oils	mg/l	Cu - Copper	mg/l	ORGANICS: (by GC, GC/MS,	
Phenol	mg/l	Fe - Iron	mg/l	(Specify test and method #.	
Sulfate	mg/l	Hg - Mercury	mg/l	Report Attached? ☐	
Specific Conductance	µMhos	K - Potassium	mg/l	VOC	, met
Total Ammonia (Ammonia Nitrogen: NH_3 as N; Ammonia Nitrogen, Total)	mg/l	Mg - Magnesium	mg/l		, met
		Mn - Manganese	mg/l		, met
TKN as N	mg/l	Ni - Nickel	mg/l		, met

For Remediation Systems Only (Attach Lab Reports): Influent Total VOCs: _____ mg/L Effluent Total VOCs: _____

[redacted]

James Cashwell, P.E., Sr. Associate - Environmental Remediation

Permittee (or Authorized Agent) Name and Title - Please print or type

Signature of Permittee (or Authorized Agent)

GW-59 . Rev. 1/2007

SUBMIT FORM ON YELLOW PAPER ONLY

GROUNDWATER QUALITY MONITORING: COMPLIANCE REPORT FORM

[redacted]

FACILITY INFORMATION *Please Print Clearly or Type*

Facility Name: Geigy Chemical Corporation Site

Permit Name (if different):

Facility Address: Domino Drive

Aberdeen (City) NC (State) 28315 (Zip) County Moore

Contact Person: James Cashwell Telephone#: 423.336.4012

Well Location/Site Name: No. of wells to be sampled: (See Permit)

PERMIT Number: Ex

Non-Discharge WQ0009949

NPDES

TYPE OF PERMITTED OPERATION

- ☐ Lagoon ☐
- ☐ Spray Field ☒
- ☐ Rotary Distributor ☐
- ☐ Water Source Heat Pump ☐

SAMPLING INFORMATION

WELL ID NUMBER (from Permit): MW-17S Date sample collected: 10/11/11

Well Depth: 59.42 ft. Well Diameter: 2 in.

Depth to Water Level: 49.31 ft. below measuring point Screened Interval: 49.4 ft. to 59.4 ft.

Measuring Point is ft. above land surface Relative M.P. Elevation: 480.22 ft.

Volume of water pumped/bailed before sampling: 4 gallons

Samples for metals were collected unfiltered: ☐YES ☐NO and field acidified: ☐YES ☐NO

FIELD ANALYSES:

pH 3.88 units Tem

Spec. Cond.

Odor None

Appearance Clear

LABORATORY INFORMATION

Date sample analyzed: 10/21/11 - TCE and PEST Laboratory Name: Test America Certificat

PARAMETERS NOTE: Values should reflect dissolved and colloidal concentrations.

COD	mg/l	Nitrite (NO_2) as N	mg/l	Pb - Lead	
Coliform: MF Fecal	/100ml	Nitrate (NO_3) as N	mg/l	Zn - Zinc	
Coliform: MF Total	/100ml	Phosphorus: Total as P	mg/l		
(Note: Use MPN method for highly turbid samples)		Orthophosphate	mg/l	Other (Specify Compounds an	
Dissolved Solids: Total	mg/l	Al - Aluminum	mg/l	TCL Pesticides - Results	
pH (when analyzed)	units	Ba - Barium	mg/l	TCE - Results attached	
TOC	mg/l	Ca - Calcium	mg/l		
Chloride	mg/l	Cd - Cadmium	mg/l		
Arsenic	mg/l	Chromium: Total	mg/l		
Grease and Oils	mg/l	Cu - Copper	mg/l	ORGANICS: (by GC, GC/MS,	
Phenol	mg/l	Fe - Iron	mg/l	(Specify test and method #.	
Sulfate	mg/l	Hg - Mercury	mg/l	Report Attached? ☐	
Specific Conductance	µMhos	K - Potassium	mg/l	VOC , me	
Total Ammonia (Ammonia Nitrogen; NH_3 as N; Ammonia Nitrogen, Total)	mg/l	Mg - Magnesium	mg/l	, me	
		Mn - Manganese	mg/l	, me	
TKN as N	mg/l	Ni - Nickel	mg/l	, me	

For Remediation Systems Only (Attach Lab Reports): Influent Total VOCs: mg/L Effluent Total VOCs:

James Cashwell, P.E., Sr. Associate - Environmental Remediation

Permittee (or Authorized Agent) Name and Title - Please print or type

Signature of Permittee (or Authorized Agent)

GW-59 Rev. 1/2007

SUBMIT FORM ON YELLOW PAPER ONLY

GROUNDWATER QUALITY MONITORING: COMPLIANCE REPORT FORM

[redacted]

FACILITY INFORMATION *Please Print Clearly or Type*

Facility Name: Geigy Chemical Corporation Site

Permit Name (if different):

Facility Address: Domino Drive (Street)

Aberdeen (City) NC (State) 28315 (Zip) County Moore

Contact Person: James Cashwell Telephone#: 423.336.4012

Well Location/Site Name: No. of wells to be sampled: (from Permit)

PERMIT Number: Ex

Non-Discharge WQ0009949

NPDES

TYPE OF PERMITTED OPERATION

- ☐ Lagoon ☐
- ☐ Spray Field ☒
- ☐ Rotary Distributor ☐
- ☐ Water Source Heat Pump ☐

SAMPLING INFORMATION

WELL ID NUMBER (from Permit): MW-18S Date sample collected: 10/11/11

Well Depth: 49.75 ft. Well Diameter: 2 in.

Depth to Water Level: 49.13 ft. below measuring point Screened Interval: 39.7 ft. to 49.7 ft.

Measuring Point is ____ ft. above land surface Relative M.P. Elevation: 467.83 ft.

Volume of water pumped/bailed before sampling: 1 gallons

Samples for metals were collected unfiltered: ☐ YES ☐ NO and field acidified: ☐ YES ☐ NO

FIELD ANALYSES:

pH 4.12 units Temp

Spec. Cond.

Odor None

Appearance Clear

LABORATORY INFORMATION

Date sample analyzed: 10/21/11 - TCE and PEST Laboratory Name: Test America Certificati

PARAMETERS NOTE: Values should reflect dissolved and colloidal concentrations.

COD	mg/l	Nitrite (NO_2) as N	mg/l	Pb - Lead	
Coliform: MF Fecal	/100ml	Nitrate (NO_3) as N	mg/l	Zn - Zinc	
Coliform: MF Total	/100ml	Phosphorus: Total as P	mg/l		
(Note: Use MPN method for highly turbid samples)		Orthophosphate	mg/l	Other (Specify Compounds an	
Dissolved Solids: Total	mg/l	Al - Aluminum	mg/l	TCL Pesticides - Results	
pH (when analyzed)	units	Ba - Barium	mg/l	TCE - Results attached	
TOC	mg/l	Ca - Calcium	mg/l		
Chloride	mg/l	Cd - Cadmium	mg/l		
Arsenic	mg/l	Chromium: Total	mg/l		
Grease and Oils	mg/l	Cu - Copper	mg/l	ORGANICS: (by GC, GC/MS,	
Phenol	mg/l	Fe - Iron	mg/l	(Specify test and method #.	
Sulfate	mg/l	Hg - Mercury	mg/l	Report Attached? ☐	
Specific Conductance	µMhos	K - Potassium	mg/l	VOC	, met
Total Ammonia (Ammonia Nitrogen; NH_3as N; Ammonia Nitrogen, Total)	mg/l	Mg - Magnesium	mg/l		, met
		Mn - Manganese	mg/l		, met
TKN as N	mg/l	Ni - Nickel	mg/l		, met

For Remediation Systems Only (Attach Lab Reports): Influent Total VOCs: ____ mg/L Effluent Total VOCs: ____

[redacted]

James Cashwell, P.E., Sr. Associate - Environmental Remediation

Permittee (or Authorized Agent) Name and Title - Please print or type

Signature of Permittee (or Authorized Agent)

GW-59 Rev. 1/2007

SUBMIT FORM ON YELLOW PAPER ONLY

GROUNDWATER QUALITY MONITORING: COMPLIANCE REPORT FORM

[redacted]

FACILITY INFORMATION *Please Print Clearly or Type*

Facility Name: Geigy Chemical Corporation Site

Permit Name (if different):

Facility Address: Domino Drive

Aberdeen (City) NC (State) 28315 (ZIP) County Moore

Contact Person: James Cashwell Telephone#: 423.336.4012

Well Location/Site Name: No. of wells to be sampled: (from Permit)

PERMIT Number: E

Non-Discharge WQ0009949

NPDES

TYPE OF PERMITTED OPERATIO

- ☐ Lagoon ☐
- ☐ Spray Field ☒
- ☐ Rotary Distributor ☐
- ☐ Water Source Heat Pump ☐

SAMPLING INFORMATION

WELL ID NUMBER (from Permit): MW-11D Date sample collected: N/A

Well Depth: N/A ft. Well Diameter: ____ in.

Depth to Water Level: 75.39 ft. below measuring point Screened Interval: ____ ft. to ____ ft.

Measuring Point is ____ ft. above land surface Relative M.P. Elevation: ____ ft.

Volume of water pumped/bailed before sampling: ____ gallons

Samples for metals were collected unfiltered: ☐ YES ☐ NO and field acidified: ☐ YES ☐ NO

FIELD ANALYSES:

pH ____ units Ten

Spec. Cond. ____

Odor ____

Appearance ____

LABORATORY INFORMATION

Date sample analyzed: 10/20/10 Laboratory Name: Test America Certifica

PARAMETERS NOTE: Values should reflect dissolved and colloidal concentrations.

COD	mg/l	Nitrite (NO_2) as N	mg/l	Pb - Lead	
Coliform: MF Fecal	/100ml	Nitrate (NO_3) as N	mg/l	Zn - Zinc	
Coliform: MF Total	/100ml	Phosphorus: Total as P	mg/l		
(Note: Use MPN method for highly turbid samples)		Orthophosphate	mg/l	Other (Specify Compounds a	
Dissolved Solids: Total	mg/l	Al - Aluminum	mg/l	TCE - Results attached	
pH (when analyzed)	units	Ba - Barium	mg/l		
TOC	mg/l	Ca - Calcium	mg/l		
Chloride	mg/l	Cd - Cadmium	mg/l		
Arsenic	mg/l	Chromium: Total	mg/l		
Grease and Oils	mg/l	Cu - Copper	mg/l	ORGANICS: (by GC, GC/MS	
Phenol	mg/l	Fe - Iron	mg/l	(Specify test and method #.	
Sulfate	mg/l	Hg - Mercury	mg/l	Report Attached? ☐	
Specific Conductance	µMhos	K - Potassium	mg/l	VOC	, m
Total Ammonia (Ammonia Nitrogen; NH_3 as N; Ammonia Nitrogen, Total)	mg/l	Mg - Magnesium	mg/l		, m
		Mn - Manganese	mg/l		, m
TKN as N	mg/l	Ni - Nickel	mg/l		, m

For Remediation Systems Only (Attach Lab Reports): Influent Total VOCs: ____ mg/L Effluent Total VOCs: ____

[redacted]

James Cashwell, P.E., Sr. Associate - Environmental Remediation

Permittee (or Authorized Agent) Name and Title - Please print or type

Signature of Permittee (or Authorized Agent)

GW-59 Rev. 1/2007

SUBMIT FORM ON YELLOW PAPER ONLY

GROUNDWATER QUALITY MONITORING: COMPLIANCE REPORT FORM

[redacted]

FACILITY INFORMATION *Please Print Clearly or Type*

Facility Name: Geigy Chemical Corporation Site

Permit Name (if different):

Facility Address: Domino Drive (Street)

Aberdeen (City) NC (State) 28315 (Zip) County Moore

Contact Person: James Cashwell Telephone#: 423.336.4012

Well Location/Site Name: No. of wells to be sampled: (from Permit)

PERMIT Number: Exp

Non-Discharge WQ0009949

NPDES

TYPE OF PERMITTED OPERATION

- ☐ Lagoon ☐ F
- ☐ Spray Field ☒ F
- ☐ Rotary Distributor ☐ L
- ☐ Water Source Heat Pump ☐ C

SAMPLING INFORMATION

WELL ID NUMBER (from Permit): MW-16D Date sample collected: 10/11/11

Well Depth: 123.57 ft. Well Diameter: 2 in.

Depth to Water Level: 94.59 ft. below measuring point Screened Interval: 113 ft. to 123 ft.

Measuring Point is ____ ft. above land surface Relative M.P. Elevation: 487.55 ft.

Volume of water pumped/bailed before sampling: 3 gallons

Samples for metals were collected unfiltered: ☐ YES ☐ NO and field acidified: ☐ YES ☐ NO

FIELD ANALYSES:

pH 4.21 units Temp.

Spec. Cond.

Odor None

Appearance Clear

LABORATORY INFORMATION

Date sample analyzed: 10/21/11 - TCE Laboratory Name: Test America Certificatio

PARAMETERS NOTE: Values should reflect dissolved and colloidal concentrations.

COD	mg/l	Nitrite (NO_2) as N	mg/l	Pb - Lead	
Coliform: MF Fecal	/100ml	Nitrate (NO_3) as N	mg/l	Zn - Zinc	
Coliform: MF Total	/100ml	Phosphorus: Total as P	mg/l		
(Note: Use MPN method for highly turbid samples)		Orthophosphate	mg/l	Other (Specify Compounds and	
Dissolved Solids: Total	mg/l	Al - Aluminum	mg/l	TCE - Results attached	
pH (when analyzed)	units	Ba - Barium	mg/l		
TOC	mg/l	Ca - Calcium	mg/l		
Chloride	mg/l	Cd - Cadmium	mg/l		
Arsenic	mg/l	Chromium: Total	mg/l		
Grease and Oils	mg/l	Cu - Copper	mg/l	ORGANICS: (by GC, GC/MS, H	
Phenol	mg/l	Fe - Iron	mg/l	(Specify test and method #. A	
Sulfate	mg/l	Hg - Mercury	mg/l	Report Attached? ☐ Y	
Specific Conductance	µMhos	K - Potassium	mg/l	VOC , meth	
Total Ammonia (Ammonia Nitrogen; NH_3 as N; Ammonia Nitrogen, Total)	mg/l	Mg - Magnesium	mg/l	, meth	
		Mn - Manganese	mg/l	, meth	
TKN as N	mg/l	Ni - Nickel	mg/l	, meth	

For Remediation Systems Only (Attach Lab Reports): Influent Total VOCs: ____ mg/L. Effluent Total VOCs: ____ m

[redacted]

James Cashwell, P.E., Sr. Associate - Environmental Remediation

Permittee (or Authorized Agent) Name and Title - Please print or type

Signature of Permittee (or Authorized Agent)

GW-59 Rev. 1/2007

SUBMIT FORM ON YELLOW PAPER ONLY

GROUNDWATER QUALITY MONITORING: COMPLIANCE REPORT FORM

[redacted]

FACILITY INFORMATION *Please Print Clearly or Type*

Facility Name: Geigy Chemical Corporation Site

Permit Name (if different):

Facility Address: Domino Drive (Street)

Aberdeen (City) NC (State) 28315 (Zip) County Moore

Contact Person: James Cashwell Telephone#: 423.336.4012

Well Location/Site Name: No. of wells to be sampled: (for Permit)

PERMIT Number: Ex

Non-Discharge WQ0009949

NPDES

TYPE OF PERMITTED OPERATION

- ☐ Lagoon ☐
- ☐ Spray Field ☒
- ☐ Rotary Distributor ☐
- ☐ Water Source Heat Pump ☐

SAMPLING INFORMATION

WELL ID NUMBER (from Permit): MW-17D Date sample collected: 10/11/11

Well Depth: 123.17 ft. Well Diameter: 2 in.

Depth to Water Level: 96.56 ft. below measuring point Screened Interval: 113 ft. to 123 ft.

Measuring Point is ft. above land surface Relative M.P. Elevation: 489.60 ft.

Volume of water pumped/bailed before sampling: 5 gallons

Samples for metals were collected unfiltered: ☐ YES ☐ NO and field acidified: ☐ YES ☐ NO

FIELD ANALYSES:

pH - units Tem

Spec. Cond.

Odor None

Appearance Clear

LABORATORY INFORMATION

Date sample analyzed: 10/21/11 - TCE Laboratory Name: Test America Certificati

PARAMETERS NOTE: Values should reflect dissolved and colloidal concentrations.

COD	mg/l	Nitrite (NO_2) as N	mg/l	Pb - Lead	
Coliform: MF Fecal	/100ml	Nitrate (NO_3) as N	mg/l	Zn - Zinc	
Coliform: MF Total	/100ml	Phosphorus: Total as P	mg/l		
(Note: Use MPN method for highly turbid samples)		Orthophosphate	mg/l	Other (Specify Compounds an	
Dissolved Solids: Total	mg/l	Al - Aluminum	mg/l	TCE - Results attached	
pH (when analyzed)	units	Ba - Barium	mg/l		
TOC	mg/l	Ca - Calcium	mg/l		
Chloride	mg/l	Cd - Cadmium	mg/l		
Arsenic	mg/l	Chromium: Total	mg/l		
Grease and Oils	mg/l	Cu - Copper	mg/l	ORGANICS: (by GC, GC/MS,	
Phenol	mg/l	Fe - Iron	mg/l	(Specify test and method if.	
Sulfate	mg/l	Hg - Mercury	mg/l	Report Attached?	☒
Specific Conductance	µMhos	K - Potassium	mg/l	VOC	, me
Total Ammonia (Ammonia Nitrogen; NH_3 as N; Ammonia Nitrogen, Total)	mg/l	Mg - Magnesium	mg/l		, me
		Mn - Manganese	mg/l		, me
TKN as N	mg/l	Ni - Nickel	mg/l		, me

For Remediation Systems Only (Attach Lab Reports): Influent Total VOCs: mg/L Effluent Total VOCs:

[redacted]

James Cashwell, P.E., Sr. Associate - Environmental Remediation

Permittee (or Authorized Agent) Name and Title - Please print or type

Signature of Permittee (or Authorized Agent)

GW-59 Rev. 1/2007

SUBMIT FORM ON YELLOW PAPER ONLY

GROUNDWATER QUALITY MONITORING: COMPLIANCE REPORT FORM

[redacted]

FACILITY INFORMATION *Please Print Clearly or Type*

Facility Name: Geigy Chemical Corporation Site

Permit Name (if different):

Facility Address: Domino Drive (Street)

Aberdeen (City) NC (State) 28315 (Zip) County Moore

Contact Person: James Cashwell Telephone#: 423.336.4012

Well Location/Site Name: No. of wells to be sampled: (from Permit)

PERMIT Number: Exp

Non-Discharge WQ0009949

NPDES

TYPE OF PERMITTED OPERATION

- ☐ Lagoon ☐
- ☐ Spray Field ☒
- ☐ Rotary Distributor ☐
- ☐ Water Source Heat Pump ☐

SAMPLING INFORMATION

WELL ID NUMBER (from Permit): MW-18D Date sample collected: 10/11/11

Well Depth: 72.36 ft. Well Diameter: 2 in.

Depth to Water Level: 58.87 ft. below measuring point Screened Interval: 62.6 ft. to 72.3 ft.

Measuring Point is ____ ft. above land surface Relative M.P. Elevation: 447.41 ft.

Volume of water pumped/bailed before sampling: 4 gallons

Samples for metals were collected unfiltered: ☐YES ☐NO and field acidified: ☐YES ☐NO

FIELD ANALYSES:

pH 4.22 units Temp

Spec. Cond.

Odor None

Appearance Clear

LABORATORY INFORMATION

Date sample analyzed: 10/21/11-TCE 10/21&25/11-PEST Laboratory Name: Test America Certificatio

PARAMETERS NOTE: Values should reflect dissolved and colloidal concentrations.

COD	mg/l	Nitrite (NO_2) as N	mg/l	Pb - Lead	
Coliform: MF Fecal	/100ml	Nitrate (NO_3) as N	mg/l	Zn - Zinc	
Coliform: MF Total	/100ml	Phosphorus: Total as P	mg/l		
(Note: Use MPN method for highly turbid samples)		Orthophosphate	mg/l	Other (Specify Compounds and	
Dissolved Solids: Total	mg/l	Al - Aluminum	mg/l	TGE - Results attached	
pH (when analyzed)	units	Ba - Barium	mg/l	TCL Pesticides - Results	
TOC	mg/l	Ca - Calcium	mg/l		
Chloride	mg/l	Cd - Cadmium	mg/l		
Arsenic	mg/l	Chromium: Total	mg/l		
Grease and Oils	mg/l	Cu - Copper	mg/l	ORGANICS: (by GC, GC/MS, H	
Phenol	mg/l	Fe - Iron	mg/l	(Specify test and method if A	
Sulfate	mg/l	Hg - Mercury	mg/l	Report Attached?	☒
Specific Conductance	µMhos	K - Potassium	mg/l	VOC	, meth
Total Ammonia	mg/l	Mg - Magnesium	mg/l	Pest & Biphenyls	, meth
(Ammonia Nitrogen: NH_3 as N; Ammonia Nitrogen, Total)		Mn - Manganese	mg/l		, meth
TKN as N	mg/l	Ni - Nickel	mg/l		, meth

For Remediation Systems Only (Attach Lab Reports): Influent Total VOCs: ____ mg/L Effluent Total VOCs: ____

[redacted]

James Cashwell, P.E., Sr. Associate - Environmental Remediation

Permittee (or Authorized Agent) Name and Title - Please print or type

Signature of Permittee (or Authorized Agent)

GW-59 Rev. 1/2007

SUBMIT FORM ON YELLOW PAPER ONLY

GROUNDWATER QUALITY MONITORING: COMPLIANCE REPORT FORM

[redacted]

FACILITY INFORMATION *Please Print Clearly or Type*

Facility Name: Geigy Chemical Corporation Site

Permit Name (if different):

Facility Address: Domino Drive (Street)

Aberdeen (City) NC (State) 28315 (Zip) County Moore

Contact Person: James Cashwell Telephone#: 423.336.4012

Well Location/Site Name: No. of wells to be sampled: (from Permit)

PERMIT Number: Exp

Non-Discharge WQ0009949

NPDES

TYPE OF PERMITTED OPERATION

- ☐ Lagoon ☐
- ☐ Spray Field ☒
- ☐ Rotary Distributor ☐
- ☐ Water Source Heat Pump ☐

SAMPLING INFORMATION

WELL ID NUMBER (from Permit): MW-20D

Date sample collected: Not Sampled

Well Depth: DRY ft.

Well Diameter: 2 in.

Depth to Water Level: 37.98 ft. below measuring point

Screened Interval: 37.4 ft. to 47.4 ft.

Measuring Point is ____ ft. above land surface

Relative M.P. Elevation: 421.24 ft.

Volume of water pumped/bailed before sampling: ____ gallons

Samples for metals were collected unfiltered: ☐ YES ☐ NO and field acidified: ☐ YES ☐ NO

FIELD ANALYSES:

pH ____ units Temp

Spec. Cond. ____

Odor None

Appearance Clear

LABORATORY INFORMATION

Date sample analyzed: ____

Laboratory Name: Test America

Certificati

PARAMETERS NOTE: Values should reflect dissolved and colloidal concentrations.

COD	mg/l	Nitrite (NO_2) as N	mg/l	Pb - Lead	
Coliform: MF Fecal	/100ml	Nitrate (NO_3) as N	mg/l	Zn - Zinc	
Coliform: MF Total	/100ml	Phosphorus: Total as P	mg/l		
(Note: Use MPN method for highly turbid samples)		Orthophosphate	mg/l	Other (Specify Compounds an	
Dissolved Solids: Total	mg/l	Al - Aluminum	mg/l		
pH (when analyzed)	units	Ba - Barium	mg/l		
TOC	mg/l	Ca - Calcium	mg/l		
Chloride	mg/l	Cd - Cadmium	mg/l		
Arsenic	mg/l	Chromium: Total	mg/l		
Grease and Oils	mg/l	Cu - Copper	mg/l	ORGANICS: (by GC, GC/MS,	
Phenol	mg/l	Fe - Iron	mg/l	(Specify test and method #.	
Sulfate	mg/l	Hg - Mercury	mg/l	Report Attached? ☐	
Specific Conductance	µMhos	K - Potassium	mg/l	____, met	
Total Ammonia	mg/l	Mg - Magnesium	mg/l	____, met	
(Ammonia Nitrogen; NH_3 as N; Ammonia Nitrogen, Total)		Mn - Manganese	mg/l	____, met	
TKN as N	mg/l	Ni - Nickel	mg/l	____, met	

For Remediation Systems Only (Attach Lab Reports): Influent Total VOCs: ____ mg/L Effluent Total VOCs: ____

[redacted]

James Cashwell, P.E., Sr. Associate - Environmental Remediation

Permittee (or Authorized Agent) Name and Title - Please print or type

Signature of Permittee (or Authorized Agent)

GW-59 Rev. 1/2007

SUBMIT FORM ON YELLOW PAPER ONLY

GROUNDWATER QUALITY MONITORING: COMPLIANCE REPORT FORM

[redacted]

FACILITY INFORMATION *Please Print Clearly or Type*

Facility Name: Geigy Chemical Corporation Site

Permit Name (If different):

Facility Address: Domino Drive (Street)

Aberdeen (City) NC (State) 28315 (Zip) County Moore

Contact Person: James Cashwell Telephone#: 423.336.4012

Well Location/Site Name: No. of wells to be sampled: (from Permit)

PERMIT Number: Exp

Non-Discharge WQ0009949

NPDES

TYPE OF PERMITTED OPERATION

- ☐ Lagoon ☐
- ☐ Spray Field ☒
- ☐ Rotary Distributor ☐
- ☐ Water Source Heat Pump ☐

SAMPLING INFORMATION

WELL ID NUMBER (from Permit): MW-22D Date sample collected: 10/12/11

Well Depth: 85.73 ft. Well Diameter: 2 in.

Depth to Water Level: 66.43 ft. below measuring point Screened Interval: 75.7 ft. to 85.7 ft.

Measuring Point is ____ ft. above land surface Relative M.P. Elevation: 449.23 ft.

Volume of water pumped/bailed before sampling: 4 gallons

Samples for metals were collected unfiltered: ☐ YES ☐ NO and field acidified: ☐ YES ☐ NO

FIELD ANALYSES:

pH 4.11 units Temp

Spec. Cond.

Odor None

Appearance Clear

LABORATORY INFORMATION

Date sample analyzed: 10/22/11 - PEST Laboratory Name: Test America Certificatio

PARAMETERS NOTE: Values should reflect dissolved and colloidal concentrations.

COD	mg/l	Nitrite (NO_2) as N	mg/l	Pb - Lead	
Coliform: MF Fecal	/100ml	Nitrate (NO_3) as N	mg/l	Zn - Zinc	
Coliform: MF Total	/100ml	Phosphorus: Total as P	mg/l		
(Note: Use MPN method for highly turbid samples)		Orthophosphate	mg/l	Other (Specify Compounds and	
Dissolved Solids: Total	mg/l	Al - Aluminum	mg/l	TCL Pesticides - Results	
pH (when analyzed)	units	Ba - Barium	mg/l		
TOC	mg/l	Ca - Calcium	mg/l		
Chloride	mg/l	Cd - Cadmium	mg/l		
Arsenic	mg/l	Chromium: Total	mg/l		
Grease and Oils	mg/l	Cu - Copper	mg/l	ORGANICS: (by GC, GC/MS,	
Phenol	mg/l	Fe - Iron	mg/l	(Specify test and method #. A	
Sulfate	mg/l	Hg - Mercury	mg/l	Report Attached? ☒	
Specific Conductance	µMhos	K - Potassium	mg/l	, met	
Total Ammonia (Ammonia Nitrogen; NH_3 as N; Ammonia Nitrogen, Total)	mg/l	Mg - Magnesium	mg/l	Pest & Biphenyls , met	
		Mn - Manganese	mg/l	, met	
TKN as N	mg/l	Ni - Nickel	mg/l	, met	

For Remediation Systems Only (Attach Lab Reports): Influent Total VOCs: ____ mg/L Effluent Total VOCs: ____

[redacted]

James Cashwell, P.E., Sr. Associate - Environmental Remediation

Permittee (or Authorized Agent) Name and Title - Please print or type

Signature of Permittee (or Authorized Agent)

GW-59 Rev. 1/2007

SUBMIT FORM ON YELLOW PAPER ONLY

GROUNDWATER QUALITY MONITORING: COMPLIANCE REPORT FORM

FACILITY INFORMATION *Please Print Clearly or Type*

Facility Name: Geigy Chemical Corporation Site

Permit Name (if different):

Facility Address: Domino Drive (Street)

Aberdeen (City) NC (State) 28315 (Zip) County Moore

Contact Person: James Cashwell Telephone#: 423.336.4012

Well Location/Site Name: No. of wells to be sampled: (See Form)

PERMIT Number: E

Non-Discharge WQ0009949

NPDES

TYPE OF PERMITTED OPERATIO

- ☐ Lagoon ☐
- ☐ Spray Field ☒
- ☐ Rotary Distributor ☐
- ☐ Water Source Heat Pump ☐

SAMPLING INFORMATION

WELL ID NUMBER (from Permit): MW-23D Date sample collected: 10/12/11

Well Depth: 87.96 ft. Well Diameter: 2 in.

Depth to Water Level: 70.68 ft. below measuring point Screened Interval: 77.9 ft. to 87.9 ft.

Measuring Point is ____ ft. above land surface Relative M.P. Elevation: 455.22 ft.

Volume of water pumped/bailed before sampling: 2 gallons

Samples for metals were collected unfiltered: ☐ YES ☐ NO and field acidified: ☐ YES ☐ NO

FIELD ANALYSES:

pH 4.62 units Ten

Spec. Cond.

Odor None

Appearance Clear

LABORATORY INFORMATION

Date sample analyzed: 10/22/11-PEST Laboratory Name: Test America Certifica

PARAMETERS NOTE: Values should reflect dissolved and colloidal concentrations.

COD	mg/l	Nitrite (NO_2) as N	mg/l	Pb - Lead	
Coliform: MF Fecal	/100ml	Nitrate (NO_3) as N	mg/l	Zn - Zinc	
Coliform: MF Total	/100ml	Phosphorus: Total as P	mg/l		
(Note: Use MPN method for highly turbid samples)		Orthophosphate	mg/l	Other (Specify Compounds a	
Dissolved Solids: Total	mg/l	Al - Aluminum	mg/l	TCL Pesticides - Results	
pH (when analyzed)	units	Ba - Barium	mg/l		
TOC	mg/l	Ca - Calcium	mg/l		
Chloride	mg/l	Cd - Cadmium	mg/l		
Arsenic	mg/l	Chromium: Total	mg/l		
Grease and Oils	mg/l	Cu - Copper	mg/l	ORGANICS: (by GC, GC/MS	
Phenol	mg/l	Fe - Iron	mg/l	(Specify test and method #.	
Sulfate	mg/l	Hg - Mercury	mg/l	Report Attached? ☐	
Specific Conductance	µMhos	K - Potassium	mg/l	VOC	, m
Total Ammonia (Ammonia Nitrogen; NH_3 as N; Ammonia Nitrogen, Total)	mg/l	Mg - Magnesium	mg/l		, m
		Mn - Manganese	mg/l		, m
TKN as N	mg/l	Ni - Nickel	mg/l		, m

For Remediation Systems Only (Attach Lab Reports): Influent Total VOCs: ____ mg/L Effluent Total VOCs: ____

James Cashwell, P.E., Sr. Associate - Environmental Remediation

Permittee (or Authorized Agent) Name and Title - Please print or type

Signature of Permittee (or Authorized Agent)

GW-59 Rev. 1/2007

SUBMIT FORM ON YELLOW PAPER ONLY

GROUNDWATER QUALITY MONITORING: COMPLIANCE REPORT FORM

[redacted]

FACILITY INFORMATION *Please Print Clearly or Type*

Facility Name: Geigy Chemical Corporation Site

Permit Name (If different):

Facility Address: Domino Drive (Street)

Aberdeen (City) NC (State) 28315 (Zip) County Moore

Contact Person: James Cashwell Telephone#: 423.336.4012

Well Location/Site Name: No. of wells to be sampled: (from Permit)

PERMIT Number: Ex

Non-Discharge WQ0008949

NPDES

TYPE OF PERMITTED OPERATION

- ☐ Lagoon ☐
- ☐ Spray Field ☒
- ☐ Rotary Distributor ☐
- ☐ Water Source Heat Pump ☐

SAMPLING INFORMATION

WELL ID NUMBER (from Permit): MW-26D Date sample collected: 10/12/11

Well Depth: 27.35 ft. Well Diameter: 2 in.

Depth to Water Level: 8.05 ft. below measuring point Screened Interval: 17.3 ft. to 27.3 ft.

Measuring Point is ____ ft. above land surface Relative M.P. Elevation: 378.95 ft.

Volume of water pumped/bailed before sampling: 4 gallons

Samples for metals were collected unfiltered: ☐ YES ☐ NO and field acidified: ☐ YES ☐ NO

FIELD ANALYSES:

pH 4.57 units Temp

Spec. Cond.

Odor None

Appearance Clear

LABORATORY INFORMATION

Date sample analyzed: 10/22/11-PEST Laboratory Name: Test America Certificati

PARAMETERS NOTE: Values should reflect dissolved and colloidal concentrations.

COD	mg/l	Nitrite (NO_2) as N	mg/l	Pb - Lead	
Coliform: MF Fecal	/100ml	Nitrate (NO_3) as N	mg/l	Zn - Zinc	
Coliform: MF Total (Note: Use MPN method for highly turbid samples)	/100ml	Phosphorus: Total as P	mg/l		
		Orthophosphate	mg/l	Other (Specify Compounds an	
Dissolved Solids: Total	mg/l	Al - Aluminum	mg/l	TCL Pesticides - Results	
pH (when analyzed)	units	Ba - Barium	mg/l		
TOC	mg/l	Ca - Calcium	mg/l		
Chloride	mg/l	Cd - Cadmium	mg/l		
Arsenic	mg/l	Chromium: Total	mg/l		
Grease and Oils	mg/l	Cu - Copper	mg/l	ORGANICS: (by GC, GC/MS,	
Phenol	mg/l	Fe - Iron	mg/l	(Specify test and method #.	
Sulfate	mg/l	Hg - Mercury	mg/l	Report Attached? ☐	
Specific Conductance	µMhos	K - Potassium	mg/l	VOC	, met
Total Ammonia (Ammonia Nitrogen; NH_3 as N; Ammonia Nitrogen, Total)	mg/l	Mg - Magnesium	mg/l		, met
		Mn - Manganese	mg/l		, met
TKN as N	mg/l	Ni - Nickel	mg/l		, met

For Remediation Systems Only (Attach Lab Reports): Influent Total VOCs: ____ mg/L Effluent Total VOCs: ____

[redacted]

James Cashwell, P.E., Sr. Associate - Environmental Remediation

Permittee (or Authorized Agent) Name and Title - Please print or type

Signature of Permittee (or Authorized Agent)

GW-59 Rev. 1/2007

SUBMIT FORM ON YELLOW PAPER ONLY

GROUNDWATER QUALITY MONITORING: COMPLIANCE REPORT FORM

[redacted]

FACILITY INFORMATION *Please Print Clearly or Type*

Facility Name: Geigy Chemical Corporation Site

Permit Name (if different):

Facility Address: Domino Drive (Street)

Aberdeen (City) NC (State) 28315 (Zip) County Moore

Contact Person: James Cashwell Telephone#: 423.336.4012

Well Location/Site Name: No. of wells to be sampled: (from Permit)

PERMIT Number: Ex

Non-Discharge WQ0009949

NPDES

TYPE OF PERMITTED OPERATIO

- ☐ Lagoon ☐
- ☐ Spray Field ☒
- ☐ Rotary Distributor ☐
- ☐ Water Source Heat Pump ☐

SAMPLING INFORMATION

WELL ID NUMBER (from Permit): MW-30D

Date sample collected: 10/11/11

Well Depth: 75.38 ft.

Well Diameter: 2 in.

Depth to Water Level: 61.65 ft. below measuring point

Screened Interval: 65.3 ft. to 75.3 ft.

Measuring Point is ____ ft. above land surface

Relative M.P. Elevation: 451.25 ft.

Volume of water pumped/bailed before sampling: 3 gallons

Samples for metals were collected unfiltered: ☐ YES ☐ NO and field acidified: ☐ YES ☐ NO

FIELD ANALYSES:

pH 4.56 units Tem

Spec. Cond.

Odor None

Appearance Clear

LABORATORY INFORMATION

Date sample analyzed: 10/21/11-TCE and PEST

Laboratory Name: Test America

Certificat

PARAMETERS NOTE: Values should reflect dissolved and colloidal concentrations.

COD	mg/l	Nitrite (NO_2) as N	mg/l	Pb - Lead	
Coliform: MF Fecal	/100ml	Nitrate (NO_3) as N	mg/l	Zn - Zinc	
Coliform: MF Total	/100ml	Phosphorus: Total as P	mg/l		
(Note: Use MPN method for highly turbid samples)		Orthophosphate	mg/l	Other (Specify Compounds an	
Dissolved Solids: Total	mg/l	Al - Aluminum	mg/l	TCL Pesticides - Results	
pH (when analyzed)	units	Ba - Barium	mg/l	TCE - Results attached	
TOC	mg/l	Ca - Calcium	mg/l		
Chloride	mg/l	Cd - Cadmium	mg/l		
Arsenic	mg/l	Chromium: Total	mg/l		
Grease and Oils	mg/l	Cu - Copper	mg/l	ORGANICS: (by GC, GC/MS,	
Phenol	mg/l	Fe - Iron	mg/l	(Specify test and method #.	
Sulfate	mg/l	Hg - Mercury	mg/l	Report Attached? ☐	
Specific Conductance	µMhos	K - Potassium	mg/l	VOC	, me
Total Ammonia	mg/l	Mg - Magnesium	mg/l		, me
(Ammonia Nitrogen; NH_3 as N; Ammonia Nitrogen, Total)		Mn - Manganese	mg/l		, me
TKN as N	mg/l	Ni - Nickel	mg/l		, me

For Remediation Systems Only (Attach Lab Reports): Influent Total VOCs: ____ mg/L Effluent Total VOCs: ____

[redacted]

James Cashwell, P.E., Sr. Associate - Environmental Remediation

Permittee (or Authorized Agent) Name and Title - Please print or type

Signature of Permittee (or Authorized Agent)

GW-59 Rev. 1/2007

SUBMIT FORM ON YELLOW PAPER ONLY

GROUNDWATER QUALITY MONITORING: COMPLIANCE REPORT FORM

[redacted]

FACILITY INFORMATION *Please Print Clearly or Type*

Facility Name: Geigy Chemical Corporation Site

Permit Name (if different):

Facility Address: Domino Drive (Street)

Aberdeen (City) NC (State) 28315 (Zip) County Moore

Contact Person: James Cashwell Telephone#: 423.336.4012

Well Location/Site Name: No. of wells to be sampled:

PERMIT Number: Exp

Non-Discharge WQ0009949

NPDES

TYPE OF PERMITTED OPERATION

- ☐ Lagoon ☐ F
- ☐ Spray Field ☒ F
- ☐ Rotary Distributor ☐ L
- ☐ Water Source Heat Pump ☐ C

SAMPLING INFORMATION

WELL ID NUMBER (from Permit): MW-22L Date sample collected: 10/12/11

Well Depth: 145.20 ft. Well Diameter: 2 in.

Depth to Water Level: 71.67 ft. below measuring point Screened Interval: 135 ft. to 145 ft.

Measuring Point is ____ ft. above land surface Relative M.P. Elevation: 449.51 ft.

Volume of water pumped/bailed before sampling: 6 gallons

Samples for metals were collected unfiltered: ☐ YES ☐ NO and field acidified: ☐ YES ☐ NO

FIELD ANALYSES:

pH 3.8 units Temp.

Spec. Cond.

Odor None

Appearance Clear

LABORATORY INFORMATION

Date sample analyzed: 10/22/11-PEST Laboratory Name: Test America Certificatio

PARAMETERS NOTE: Values should reflect dissolved and colloidal concentrations.

COD	mg/l	Nitrite (NO_2) as N	mg/l	Pb - Lead	
Coliform: MF Fecal	/100ml	Nitrate (NO_3) as N	mg/l	Zn - Zinc	
Coliform: MF Total	/100ml	Phosphorus: Total as P	mg/l		
(Note: Use MPN method for highly turbid samples)		Orthophosphate	mg/l	Other (Specify Compounds and	
Dissolved Solids: Total	mg/l	Al - Aluminum	mg/l	TCL Pesticides - Results	
pH (when analyzed)	units	Ba - Barium	mg/l		
TOC	mg/l	Ca - Calcium	mg/l		
Chloride	mg/l	Cd - Cadmium	mg/l		
Arsenic	mg/l	Chromium: Total	mg/l		
Grease and Oils	mg/l	Cu - Copper	mg/l	ORGANICS: (by GC, GC/MS, H	
Phenol	mg/l	Fe - Iron	mg/l	(Specify test and method #. A	
Sulfate	mg/l	Hg - Mercury	mg/l	Report Attached? ☒ Y	
Specific Conductance	µMhos	K - Potassium	mg/l		, meth
Total Ammonia (Ammonia Nitrogen; NH_3 as N; Ammonia Nitrogen, Total)	mg/l	Mg - Magnesium	mg/l	Pest & Biphenyls	, meth
		Mn - Manganese	mg/l		, meth
TKN as N	mg/l	Ni - Nickel	mg/l		, meth

For Remediation Systems Only (Attach Lab Reports): Influent Total VOCs: ____ mg/L Effluent Total VOCs: ____

[redacted]

James Cashwell, P.E., Sr. Associate - Environmental Remediation

Permittee (or Authorized Agent) Name and Title - Please print or type

Signature of Permittee (or Authorized Agent)

GW-59 Rev. 1/2007

SUBMIT FORM ON YELLOW PAPER ONLY

GROUNDWATER QUALITY MONITORING: COMPLIANCE REPORT FORM

[redacted]

FACILITY INFORMATION *Please Print Clearly or Type*

Facility Name: Geigy Chemical Corporation Site

Permit Name (if different):

Facility Address: Domino Drive (Street)

Aberdeen (City) NC (State) 28315 (Zip) County Moore

Contact Person: James Cashwell Telephone#: 423.336.4012

Well Location/Site Name: No. of wells to be sampled: (Rem Fund)

PERMIT Number: B

Non-Discharge WQ0009949

NPDES

TYPE OF PERMITTED OPERATIO

- ☐ Lagoon ☐
- ☐ Spray Field ☒
- ☐ Rotary Distributor ☐
- ☐ Water Source Heat Pump ☐

SAMPLING INFORMATION

WELL ID NUMBER (from Permit): MW-25L Date sample collected: 10/12/11

Well Depth: 74.60 ft. Well Diameter: 2 in.

Depth to Water Level: 27.59 ft. below measuring point Screened Interval: 64.6 ft. to 74.6 ft.

Measuring Point is _____ ft. above land surface Relative M.P. Elevation: 384.63 ft.

Volume of water pumped/bailed before sampling: 10 gallons

Samples for metals were collected unfiltered: ☐ YES ☐ NO and field acidified: ☐ YES ☐ NO

FIELD ANALYSES:

pH 4.15 units Tem

Spec. Cond.

Odor None

Appearance Clear

LABORATORY INFORMATION

Date sample analyzed: 10/22&25/11-PEST Laboratory Name: Test America Certificat

PARAMETERS NOTE: Values should reflect dissolved and colloidal concentrations.

COD	mg/l	Nitrite (NO_2) as N	mg/l	Pb - Lead	
Coliform: MF Fecal	/100ml	Nitrate (NO_3) as N	mg/l	Zn - Zinc	
Coliform: MF Total	/100ml	Phosphorus: Total as P	mg/l		
(Note: Use MPN method for highly turbid samples)		Orthophosphate	mg/l	Other (Specify Compounds or	
Dissolved Solids: Total	mg/l	Al - Aluminum	mg/l	TCL Pesticides - Results	
pH (when analyzed)	units	Ba - Barium	mg/l		
TOC	mg/l	Ca - Calcium	mg/l		
Chloride	mg/l	Cd - Cadmium	mg/l		
Arsenic	mg/l	Chromium: Total	mg/l		
Grease and Oils	mg/l	Cu - Copper	mg/l	ORGANICS: (by GC, GC/MS,	
Phenol	mg/l	Fe - Iron	mg/l	(Specify test and method #.	
Sulfate	mg/l	Hg - Mercury	mg/l	Report Attached? ☐	
Specific Conductance	µ/mhos	K - Potassium	mg/l	VOC	, mg
Total Ammonia (Ammonia Nitrogen; NH_3 as N; Ammonia Nitrogen, Total)	mg/l	Mg - Magnesium	mg/l		, mg
		Mn - Manganese	mg/l		, mg
TKN as N	mg/l	Ni - Nickel	mg/l		, mg

For Remediation Systems Only (Attach Lab Reports): Influent Total VOCs: _____ mg/L Effluent Total VOCs: _____

[redacted]

James Cashwell, P.E., Sr. Associate - Environmental Remediation

Permittee (or Authorized Agent) Name and Title - Please print or type

Signature of Permittee (or Authorized Agent)

GW-59 Rev. 1/2007

SUBMIT FORM ON YELLOW PAPER ONLY

GROUNDWATER QUALITY MONITORING: COMPLIANCE REPORT FORM

[redacted]

FACILITY INFORMATION *Please Print Clearly or Type*

Facility Name: Geigy Chemical Corporation Site

Permit Name (if different):

Facility Address: Domino Drive (Street)

Aberdeen (City) NC (State) 28315 (Zip) County Moore

Contact Person: James Cashwell Telephone#: 423.336.4012

Well Location/Site Name: No. of wells to be sampled: (from Permit)

PERMIT Number: Ex

Non-Discharge WQ0009949

NPDES

TYPE OF PERMITTED OPERATION

- ☐ Lagoon ☐
- ☐ Spray Field ☒
- ☐ Rotary Distributor ☐
- ☐ Water Source Heat Pump ☐

SAMPLING INFORMATION

WELL ID NUMBER (from Permit): MW-27L Date sample collected: 10/12/11

Well Depth: 86.54 ft. Well Diameter: 2 in.

Depth to Water Level: 36.76 ft. below measuring point Screened Interval: 76.5 ft. to 86.5 ft.

Measuring Point is ____ ft. above land surface Relative M.P. Elevation: 397.13 ft.

Volume of water pumped/bailed before sampling: 3 gallons

Samples for metals were collected unfiltered: ☐ YES ☐ NO and field acidified: ☐ YES ☐ NO

FIELD ANALYSES:

pH 4.42 units Temp

Spec. Cond.

Odor None

Appearance Slightly tan, c

LABORATORY INFORMATION

Date sample analyzed: 10/22/11-PEST Laboratory Name: Test America Certificati

PARAMETERS NOTE: Values should reflect dissolved and colloidal concentrations.

COD	mg/l	Nitrite (NO_2) as N	mg/l	Pb - Lead	
Coliform: MF Fecal	/100ml	Nitrate (NO_3) as N	mg/l	Zn - Zinc	
Coliform: MF Total (Note: Use MPN method for highly turbid samples)	/100ml	Phosphorus: Total as P	mg/l		
		Orthophosphate	mg/l	Other (Specify Compounds an	
Dissolved Solids: Total	mg/l	Al - Aluminum	mg/l	TCL Pesticides - Results	
pH (when analyzed)	units	Ba - Barium	mg/l		
TOC	mg/l	Ca - Calcium	mg/l		
Chloride	mg/l	Cd - Cadmium	mg/l		
Arsenic	mg/l	Chromium: Total	mg/l		
Grease and Oils	mg/l	Cu - Copper	mg/l	ORGANICS: (by GC, GC/MS,	
Phenol	mg/l	Fe - Iron	mg/l	(Specify test and method #.	
Sulfate	mg/l	Hg - Mercury	mg/l	Report Attached? ☐	
Specific Conductance	µMhos	K - Potassium	mg/l	VOC	, met
Total Ammonia (Ammonia Nitrogen; NH_3 as N; Ammonia Nitrogen, Total)	mg/l	Mg - Magnesium	mg/l		, met
		Mn - Manganese	mg/l		, met
TKN as N	mg/l	Ni - Nickel	mg/l		, met

For Remediation Systems Only (Attach Lab Reports): Influent Total VOCs: ____ mg/L Effluent Total VOCs: ____

[redacted]

James Cashwell, P.E., Sr. Associate - Environmental Remediation

Permittee (or Authorized Agent) Name and Title - Please print or type

Signature of Permittee (or Authorized Agent)

GW-59 Rev. 1/2007

SUBMIT FORM ON YELLOW PAPER ONLY

GROUNDWATER QUALITY MONITORING: COMPLIANCE REPORT FORM

FACILITY INFORMATION *Please Print Clearly or Type*

Facility Name: Geigy Chemical Corporation Site

Permit Name (If different):

Facility Address: Domino Drive (Street)

Aberdeen (City) NC (State) 28315 (Zip) County Moore

Contact Person: James Cashwell Telephone#: 423.336.4012

Well Location/Site Name: No. of wells to be sampled: (from Form B)

PERMIT Number: Ex

Non-Discharge WQ0009949

NPDES

TYPE OF PERMITTED OPERATION

- ☐ Lagoon ☐
- ☐ Spray Field ☒
- ☐ Rotary Distributor ☐
- ☐ Water Source Heat Pump ☐

SAMPLING INFORMATION

WELL ID NUMBER (from Permit): MW-31L Date sample collected: 10/12/11

Well Depth: 22.0 ft. Well Diameter: 2 in.

Depth to Water Level: 3.78 ft. below measuring point Screened Interval: 12.0 ft. to 22. ft.

Measuring Point is ft. above land surface Relative M.P. Elevation: 332.68 ft.

Volume of water pumped/bailed before sampling: 5 gallons

Samples for metals were collected unfiltered: ☐YES ☐NO and field acidified: ☐YES ☐NO

FIELD ANALYSES:

pH 4.28 units Temp

Spec. Cond.

Odor

Appearance

LABORATORY INFORMATION

Date sample analyzed: 10/22/11 - PEST Laboratory Name: Test America Certificati

PARAMETERS NOTE: Values should reflect dissolved and colloidal concentrations.

COD	mg/l	Nitrite (NO_2) as N	mg/l	Pb - Lead	
Coliform: MF Fecal	/100ml	Nitrate (NO_3) as N	mg/l	Zn - Zinc	
Coliform: MF Total	/100ml	Phosphorus: Total as P	mg/l		
(Note: Use MPN method for highly turbid samples)		Orthophosphate	mg/l	Other (Specify Compounds an	
Dissolved Solids: Total	mg/l	Al - Aluminum	mg/l	TCL Pesticides - Results	
pH (when analyzed)	units	Ba - Barium	mg/l		
TOC	mg/l	Ca - Calcium	mg/l		
Chloride	mg/l	Cd - Cadmium	mg/l		
Arsenic	mg/l	Chromium: Total	mg/l		
Grease and Oils	mg/l	Cu - Copper	mg/l	ORGANICS: (by GC, GC/MS,	
Phenol	mg/l	Fe - Iron	mg/l	(Specify test and method #.	
Sulfate	mg/l	Hg - Mercury	mg/l	Report Attached? ☐	
Specific Conductance	µMhos	K - Potassium	mg/l	VOC	, met
Total Ammonia	mg/l	Mg - Magnesium	mg/l		, met
(Ammonia Nitrogen; NH_3 as N; Ammonia Nitrogen, Total)		Mn - Manganese	mg/l		, met
TKN as N	mg/l	Ni - Nickel	mg/l		, met

For Remediation Systems Only (Attach Lab Reports): Influent Total VOCs: mg/L Effluent Total VOCs:

James Cashwell, P.E., Sr. Associate - Environmental Remediation

Permittee (or Authorized Agent) Name and Title - Please print or type

Signature of Permittee (or Authorized Agent)

GW-59 Rev. 1/2007

SUBMIT FORM ON YELLOW PAPER ONLY

GROUNDWATER QUALITY MONITORING: COMPLIANCE REPORT FORM

FACILITY INFORMATION *Please Print Clearly or Type*

Facility Name: Geigy Chemical Corporation Site

Permit Name (if different):

Facility Address: Domino Drive (Street)

Aberdeen (City) NC (State) 28315 (Zip) County Moore

Contact Person: James Cashwell Telephone#: 423.336.4012

Well Location/Site Name: No. of wells to be sampled: (See Form B)

PERMIT Number: Exp

Non-Discharge WQ0009949

NPDES

TYPE OF PERMITTED OPERATION

- ☐ Lagoon
- ☐ Spray Field
- ☐ Rotary Distributor
- ☐ Water Source Heat Pump

SAMPLING INFORMATION

WELL ID NUMBER (from Permit): MW-32L

Date sample collected: 10/12/11

Well Depth: 26.99 ft.

Well Diameter: 2 in.

Depth to Water Level: 4.36 ft. below measuring point

Screened Interval: 16.9 ft. to 26.9 ft.

Measuring Point is _____ ft. above land surface

Relative M.P. Elevation: 322.45 ft.

Volume of water pumped/bailed before sampling: 4 gallons

Samples for metals were collected unfiltered: ☐ YES ☐ NO and field acidified: ☐ YES ☐ NO

FIELD ANALYSES:

pH 5.0 units Temp

Spec. Cond.

Odor Slight Septic Odor

Appearance Clear

LABORATORY INFORMATION

Date sample analyzed: 10/22/11-PEST

Laboratory Name: Test America

Certificatio

PARAMETERS NOTE: Values should reflect dissolved and colloidal concentrations.

COD	mg/l	Nitrite (NO_2) as N	mg/l	Pb - Lead	
Coliform: MF Fecal	/100ml	Nitrate (NO_3) as N	mg/l	Zn - Zinc	
Coliform: MF Total	/100ml	Phosphorus: Total as P	mg/l		
(Note: Use MPN method for highly turbid samples)		Orthophosphate	mg/l	Other (Specify Compounds and	
Dissolved Solids: Total	mg/l	Al - Aluminum	mg/l	TCL Pesticides - Results a	
pH (when analyzed)	units	Ba - Barium	mg/l		
TOC	mg/l	Ca - Calcium	mg/l		
Chloride	mg/l	Cd - Cadmium	mg/l		
Arsenic	mg/l	Chromium: Total	mg/l		
Grease and Oils	mg/l	Cu - Copper	mg/l	ORGANICS: (by GC, GC/MS,	
Phenol	mg/l	Fe - Iron	mg/l	(Specify test and method #. A	
Sulfate	mg/l	Hg - Mercury	mg/l	Report Attached? ☐	
Specific Conductance	µMhos	K - Potassium	mg/l	VOC	, met
Total Ammonia (Ammonia Nitrogen: NH_3 as N; Ammonia Nitrogen, Total)	mg/l	Mg - Magnesium	mg/l		, met
		Mn - Manganese	mg/l		, met
TKN as N	mg/l	Ni - Nickel	mg/l		, met

For Remediation Systems Only (Attach Lab Reports): Influent Total VOCs: _____ mg/L Effluent Total VOCs: _____

James Cashwell, P.E., Sr. Associate - Environmental Remediation

Permittee (or Authorized Agent) Name and Title - Please print or type

Signature of Permittee (or Authorized Agent)

GW-59 Rev. 1/2007

SUBMIT FORM ON YELLOW PAPER ONLY

GROUNDWATER QUALITY MONITORING: COMPLIANCE REPORT FORM

[redacted]

FACILITY INFORMATION *Please Print Clearly or Type*

Facility Name: Geigy Chemical Corporation Site

Permit Name (if different):

Facility Address: Domino Drive (Street)

Aberdeen (City) NC (State) 28315 (Zip) County Moore

Contact Person: James Cashwell Telephone#: 423.336.4012

Well Location/Site Name: No. of wells to be sampled: (from Permit)

PERMIT Number: Ex

Non-Discharge WQ0009949

NPDES

TYPE OF PERMITTED OPERATION

- ☐ Lagoon ☐
- ☐ Spray Field ☒
- ☐ Rotary Distributor ☐
- ☐ Water Source Heat Pump ☐

SAMPLING INFORMATION

WELL ID NUMBER (from Permit): MW-36L

Date sample collected: 10/12/11

Well Depth: 106.0 ft.

Well Diameter: 2 in.

Depth to Water Level: 41.26 ft. below measuring point

Screened Interval: 96.0 ft. to 106 ft.

Measuring Point is ____ ft. above land surface

Relative M.P. Elevation: 414.18 ft.

Volume of water pumped/bailed before sampling: 3 gallons

Samples for metals were collected unfiltered: ☐YES ☐NO and field acidified: ☐YES ☐NO

FIELD ANALYSES:

pH 4.7 units Tem

Spec. Cond.

Odor None

Appearance Clear

LABORATORY INFORMATION

Date sample analyzed: 10/22/11-PEST

Laboratory Name: Test America

Certificat

PARAMETERS NOTE: Values should reflect dissolved and colloidal concentrations.

COD	mg/l	Nitrite (NO_2) as N	mg/l	Pb - Lead	
Coliform: MF Fecal	/100ml	Nitrate (NO_3) as N	mg/l	Zn - Zinc	
Coliform: MF Total	/100ml	Phosphorus: Total as P	mg/l		
(Note: Use MPN method for highly turbid samples)		Orthophosphate	mg/l	Other (Specify Compounds an	
Dissolved Solids: Total	mg/l	Al - Aluminum	mg/l	TCL Pesticides - Results	
pH (when analyzed)	units	Ba - Barium	mg/l		
TOC	mg/l	Ca - Calcium	mg/l		
Chloride	mg/l	Cd - Cadmium	mg/l		
Arsenic	mg/l	Chromium: Total	mg/l		
Grease and Oils	mg/l	Cu - Copper	mg/l	ORGANICS: (by GC, GC/MS,	
Phenol	mg/l	Fe - Iron	mg/l	(Specify test and method #.	
Sulfate	mg/l	Hg - Mercury	mg/l	Report Attached? ☐	
Specific Conductance	µMhos	K - Potassium	mg/l	VOC	, me
Total Ammonia	mg/l	Mg - Magnesium	mg/l		, me
(Ammonia Nitrogen; NH_3 as N; Ammonia Nitrogen, Total)		Mn - Manganese	mg/l		, me
TKN as N	mg/l	Ni - Nickel	mg/l		, me

For Remediation Systems Only (Attach Lab Reports): Influent Total VOCs: ____ mg/L Effluent Total VOCs: ____

[redacted]

James Cashwell, P.E., Sr. Associate - Environmental Remediation

Permittee (or Authorized Agent) Name and Title - Please print or type

Signature of Permittee (or Authorized Agent)

GW-59 Rev. 1/2007

SUBMIT FORM ON YELLOW PAPER ONLY

GROUNDWATER QUALITY MONITORING: COMPLIANCE REPORT FORM

[redacted]

FACILITY INFORMATION *Please Print Clearly or Type*

Facility Name: Geigy Chemical Corporation Site

Permit Name (if different):

Facility Address: Domino Drive (Street)

Aberdeen (City) NC (State) 28315 (Zip) County Moore

Contact Person: James Cashwell Telephone#: 423.336.4012

Well Location/Site Name: No. of wells to be sampled: (for Permit)

PERMIT Number: Exp

Non-Discharge WQ0009949

NPDES

TYPE OF PERMITTED OPERATION

- ☐ Lagoon ☐
- ☐ Spray Field ☒
- ☐ Rotary Distributor ☐
- ☐ Water Source Heat Pump ☐

SAMPLING INFORMATION

WELL, ID NUMBER (from Permit): MW-37L Date sample collected: 10/12/11

Well Depth: 46.18 ft. Well Diameter: 2 in.

Depth to Water Level: 13.43 ft. below measuring point Screened Interval: 36.1 ft. to 46.1 ft.

Measuring Point is ____ ft. above land surface Relative M.P. Elevation: 354.86 ft.

Volume of water pumped/bailed before sampling: 2.0 gallons

Samples for metals were collected unfiltered: ☐ YES ☐ NO and field acidified: ☐ YES ☐ NO

FIELD ANALYSES:

pH 3.95 units Temp

Spec. Cond.

Odor None

Appearance Clear

LABORATORY INFORMATION

Date sample analyzed: 10/22/11-PEST Laboratory Name: Test America Certificatio

PARAMETERS NOTE: Values should reflect dissolved and colloidal concentrations.

COD	mg/l	Nitrite (NO_2) as N	mg/l	Pb - Lead	
Coliform: MF Fecal	/100ml	Nitrate (NO_3) as N	mg/l	Zn - Zinc	
Coliform: MF Total	/100ml	Phosphorus: Total as P	mg/l		
(Note: Use MPN method for highly turbid samples)		Orthophosphate	mg/l	Other (Specify Compounds and	
Dissolved Solids: Total	mg/l	Al - Aluminum	mg/l	TCL Pesticides - Results a	
pH (when analyzed)	units	Ba - Barium	mg/l		
TOC	mg/l	Ca - Calcium	mg/l		
Chloride	mg/l	Cd - Cadmium	mg/l		
Arsenic	mg/l	Chromium: Total	mg/l		
Grease and Oils	mg/l	Cu - Copper	mg/l	ORGANICS: (by GC, GC/MS, H	
Phenol	mg/l	Fe - Iron	mg/l	(Specify test and method if A	
Sulfate	mg/l	Hg - Mercury	mg/l	Report Attached? ☐	
Specific Conductance	µMhos	K - Potassium	mg/l	VOC	, meth
Total Ammonia (Ammonia Nitrogen; NH_3 as N; Ammonia Nitrogen, Total)	mg/l	Mg - Magnesium	mg/l		, meth
		Mn - Manganese	mg/l		, meth
TKN as N	mg/l	Ni - Nickel	mg/l		, meth

For Remediation Systems Only (Attach Lab Reports): Influent Total VOCs: ____ mg/L Effluent Total VOCs: ____

[redacted]

James Cashwell, P.E., Sr. Associate - Environmental Remediation

Permittee (or Authorized Agent) Name and Title - Please print or type

Signature of Permittee (or Authorized Agent)

GW-59 Rev. 1/2007

SUBMIT FORM ON YELLOW PAPER ONLY

GROUNDWATER QUALITY MONITORING: COMPLIANCE REPORT FORM

[redacted]

Please Print Clearly or Type

FACILITY INFORMATION

Facility Name: Geigy Chemical Corporation Site

Permit Name (if different):

Facility Address: Domino Drive (Street)

Aberdeen (City) NC (State) 28315 (Zip) County Moore

Contact Person: James Cashwell Telephone#: 423.336.4012

Well Location/Site Name: No. of wells to be sampled: (see back)

PERMIT Number: Ex

Non-Discharge WQ0009949

NPDES

TYPE OF PERMITTED OPERATION

- ☐ Lagoon ☐
- ☐ Spray Field ☒
- ☐ Rotary Distributor ☐
- ☐ Water Source Heat Pump ☐

SAMPLING INFORMATION

WELL ID NUMBER (from Permit): MW-38L Date sample collected: 10/13/11

Well Depth: 28.14 ft. Well Diameter: 2 in.

Depth to Water Level: 9.83 ft. below measuring point Screened Interval: 18.1 ft. to 28.1 ft.

Measuring Point is _____ ft. above land surface Relative M.P. Elevation: 327.30 ft.

Volume of water pumped/bailed before sampling: 5 gallons

Samples for metals were collected unfiltered: ☐ YES ☐ NO and field acidified: ☐ YES ☐ NO

FIELD ANALYSES:

pH 5.84 units Tem

Spec. Cond.

Odor Septic

Appearance Slightly cloud

LABORATORY INFORMATION

Date sample analyzed: 10/21/11-PEST Laboratory Name: Test America Certificati

PARAMETERS NOTE: Values should reflect dissolved and colloidal concentrations.

COD	mg/l	Nitrite (NO_2) as N	mg/l	Pb - Lead	
Coliform: MF Fecal	/100ml	Nitrate (NO_3) as N	mg/l	Zn - Zinc	
Coliform: MF Total	/100ml	Phosphorus: Total as P	mg/l		
(Note: Use MPN method for highly turbid samples)		Orthophosphate	mg/l	Other (Specify Compounds an	
Dissolved Solids: Total	mg/l	Al - Aluminum	mg/l	TCL Pesticides - Results	
pH (when analyzed)	units	Ba - Barium	mg/l		
TOC	mg/l	Ca - Calcium	mg/l		
Chloride	mg/l	Cd - Cadmium	mg/l		
Arsenic	mg/l	Chromium: Total	mg/l		
Grease and Oils	mg/l	Cu - Copper	mg/l	ORGANICS: (by GC, GC/MS,	
Phenol	mg/l	Fe - Iron	mg/l	(Specify test and method #.	
Sulfate	mg/l	Hg - Mercury	mg/l	Report Attached?	☐
Specific Conductance	µMhos	K - Potassium	mg/l	VOC	, me
Total Ammonia (Ammonia Nitrogen; NH_4 as N; Ammonia Nitrogen, Total)	mg/l	Mg - Magnesium	mg/l		, me
		Mn - Manganese	mg/l		, me
TKN as N	mg/l	Ni - Nickel	mg/l		, me

For Remediation Systems Only (Attach Lab Reports): Influent Total VOCs: _____ mg/L Effluent Total VOCs: _____

[redacted]

James Cashwell, P.E., Sr. Associate - Environmental Remediation

Permittee (or Authorized Agent) Name and Title - Please print or type

Signature of Permittee (or Authorized Agent)

GW-59 Rev. 1/2007

SUBMIT FORM ON YELLOW PAPER ONLY

GROUNDWATER QUALITY MONITORING: COMPLIANCE REPORT FORM

[redacted]

FACILITY INFORMATION *Please Print Clearly or Type*

Facility Name: Geigy Chemical Corporation Site

Permit Name (if different):

Facility Address: Domino Drive (Street)

Aberdeen (City) NC (State) 28315 (Zip) County Moore

Contact Person: James Cashwell Telephone#: 423.336.4012

Well Location/Site Name: No. of wells to be sampled: (from Permit)

PERMIT Number: Exp

Non-Discharge WQ0009949

NPDES

TYPE OF PERMITTED OPERATION

- ☐ Lagoon ☐
- ☐ Spray Field ☒
- ☐ Rotary Distributor ☐
- ☐ Water Source Heat Pump ☐

SAMPLING INFORMATION

WELL ID NUMBER (from Permit): MW-39L Date sample collected: 10/13/11

Well Depth: 20.29 ft. Well Diameter: 2 in.

Depth to Water Level: 4.31 ft. below measuring point Screened Interval: 10.2 ft. to 20.2 ft.

Measuring Point is _____ ft. above land surface Relative M.P. Elevation: 389.86 ft.

Volume of water pumped/bailed before sampling: 3 gallons

Samples for metals were collected unfiltered: ☐ YES ☐ NO and field acidified: ☐ YES ☐ NO

FIELD ANALYSES:

pH 4.97 units Temp

Spec. Cond.

Odor None

Appearance Red - tan clo

LABORATORY INFORMATION

Date sample analyzed: 10/21/11-PEST Laboratory Name: Test America Certificatio

PARAMETERS NOTE: Values should reflect dissolved and colloidal concentrations.

COD	mg/l	Nitrite (NO_2) as N	mg/l	Pb - Lead	
Coliform: MF Fecal	/100ml	Nitrate (NO_3) as N	mg/l	Zn - Zinc	
Coliform: MF Total	/100ml	Phosphorus: Total as P	mg/l		
(Note: Use MPN method for highly turbid samples)		Orthophosphate	mg/l	Other (Specify Compounds and	
Dissolved Solids: Total	mg/l	Al - Aluminum	mg/l	TCL Pesticides - Results	
pH (when analyzed)	units	Ba - Barium	mg/l		
TOC	mg/l	Ca - Calcium	mg/l		
Chloride	mg/l	Cd - Cadmium	mg/l		
Arsenic	mg/l	Chromium: Total	mg/l		
Grease and Oils	mg/l	Cu - Copper	mg/l	ORGANICS: (by GC, GC/MS,	
Phenol	mg/l	Fe - Iron	mg/l	(Specify test and method #. A	
Sulfate	mg/l	Hg - Mercury	mg/l	Report Attached? ☐	
Specific Conductance	µMhos	K - Potassium	mg/l	VOC _____, meth	
Total Ammonia (Ammonia Nitrogen: NH_3 as N; Ammonia Nitrogen, Total)	mg/l	Mg - Magnesium	mg/l	_____, meth	
		Mn - Manganese	mg/l	_____, meth	
TKN as N	mg/l	Ni - Nickel	mg/l	_____, meth	

For Remediation Systems Only (Attach Lab Reports): Influent Total VOCs: _____ mg/L Effluent Total VOCs: _____

[redacted]

James Cashwell, P.E., Sr. Associate - Environmental Remediation

Permittee (or Authorized Agent) Name and Title - Please print or type

Signature of Permittee (or Authorized Agent)

GW-59 Rev. 1/2007

SUBMIT FORM ON YELLOW PAPER ONLY

GROUNDWATER QUALITY MONITORING: COMPLIANCE REPORT FORM

[redacted]

FACILITY INFORMATION *Please Print Clearly or Type*

Facility Name: Geigy Chemical Corporation Site

Permit Name (if different):

Facility Address: Domino Drive (Street)

Aberdeen (City) NC (State) 28315 (Zip) County Moore

Contact Person: James Cashwell Telephone#: 423.336.4012

Well Location/Site Name: No. of wells to be sampled: (from Permit)

PERMIT Number: Ex

Non-Discharge WQ0009949

NPDES

TYPE OF PERMITTED OPERATION

- ☐ Lagoon ☐
- ☐ Spray Field ☒
- ☐ Rotary Distributor ☐
- ☐ Water Source Heat Pump ☐

SAMPLING INFORMATION

WELL ID NUMBER (from Permit): MW-40L

Date sample collected: 10/13/11

Well Depth: 27.76 ft.

Well Diameter: 2 in.

Depth to Water Level: 3.18 ft. below measuring point

Screened Interval: 17.7 ft. to 27.7 ft.

Measuring Point is ____ ft. above land surface

Relative M.P. Elevation: 334.45 ft.

Volume of water pumped/bailed before sampling: 12 gallons

Samples for metals were collected unfiltered: ☐ YES ☐ NO and field acidified: ☐ YES ☐ NO

FIELD ANALYSES:

pH 4.74 units Tem

Spec. Cond.

Odor None

Appearance Tan, cloudy

LABORATORY INFORMATION

Date sample analyzed: 10/21/11-PEST

Laboratory Name: Test America

Certificati

PARAMETERS NOTE: Values should reflect dissolved and colloidal concentrations.

COD	mg/l	Nitrite (NO_2) as N	mg/l	Pb - Lead	
Coliform: MF Fecal	/100ml	Nitrate (NO_3) as N	mg/l	Zn - Zinc	
Coliform: MF Total	/100ml	Phosphorus: Total as P	mg/l		
(Note: Use MPN method for highly turbid samples)		Orthophosphate	mg/l	Other (Specify Compounds an	
Dissolved Solids: Total	mg/l	Al - Aluminum	mg/l	TCL Pesticides - Results	
pH (when analyzed)	units	Ba - Barium	mg/l		
TOC	mg/l	Ca - Calcium	mg/l		
Chloride	mg/l	Cd - Cadmium	mg/l		
Arsenic	mg/l	Chromium: Total	mg/l		
Grease and Oils	mg/l	Cu - Copper	mg/l	ORGANICS: (by GC, GC/MS,	
Phenol	mg/l	Fe - Iron	mg/l	(Specify test and method #.	
Sulfate	mg/l	Hg - Mercury	mg/l	Report Attached? ☐	
Specific Conductance	µMhos	K - Potassium	mg/l	VOC	, me
Total Ammonia	mg/l	Mg - Magnesium	mg/l		, me
(Ammonia Nitrogen; NH_3 as N; Ammonia Nitrogen, Total)		Mn - Manganese	mg/l		, me
TKN as N	mg/l	Ni - Nickel	mg/l		, me

For Remediation Systems Only (Attach Lab Reports): Influent Total VOCs: ____ mg/L Effluent Total VOCs: ____

[redacted]

James Cashwell, P.E., Sr. Associate - Environmental Remediation

Permittee (or Authorized Agent) Name and Title - Please print or type

Signature of Permittee (or Authorized Agent)

GW-59 Rev. 1/2007

SUBMIT FORM ON YELLOW PAPER ONLY

GROUNDWATER QUALITY MONITORING: COMPLIANCE REPORT FORM

[redacted]

FACILITY INFORMATION *Please Print Clearly or Type*

Facility Name: Geigy Chemical Corporation Site

Permit Name (if different):

Facility Address: Domino Drive (Street)

Aberdeen (City) NC (State) 28315 (Zip) County Moore

Contact Person: James Cashwell Telephone#: 423.336.4012

Well Location/Site Name: No. of wells to be sampled: (from Permit)

PERMIT Number: Ex

Non-Discharge WQ0009949

NPDES

TYPE OF PERMITTED OPERATION

- ☐ Lagoon ☐
- ☐ Spray Field ☒
- ☐ Rotary Distributor ☐
- ☐ Water Source Heat Pump ☐

SAMPLING INFORMATION

WELL ID NUMBER (from Permit): PZ-2 Date sample collected: 10/13/11

Well Depth: 36.18 ft. Well Diameter: 2 in.

Depth to Water Level: 6.46 ft. below measuring point Screened Interval: 26.1 ft. to 36.1 ft.

Measuring Point is _____ ft. above land surface Relative M.P. Elevation: 343.79 ft.

Volume of water pumped/bailed before sampling: 4 gallons

Samples for metals were collected unfiltered: ☐ YES ☐ NO and field acidified: ☐ YES ☐ NO

FIELD ANALYSES:

pH 4.58 units Temp

Spec. Cond.

Odor None

Appearance Tan, white, cl

LABORATORY INFORMATION

Date sample analyzed: 10/21/11-PEST Laboratory Name: Test America Certificati

PARAMETERS NOTE: Values should reflect dissolved and colloidal concentrations.

COD	mg/l	Nitrite (NO_2) as N	mg/l	Pb - Lead	
Coliform: MF Fecal	/100ml	Nitrate (NO_3) as N	mg/l	Zn - Zinc	
Coliform: MF Total	/100ml	Phosphorus: Total as P	mg/l		
(Note: Use MPN method for highly turbid samples)		Orthophosphate	mg/l	Other (Specify Compounds an	
Dissolved Solids: Total	mg/l	Al - Aluminum	mg/l	TCL Pesticides - Results	
pH (when analyzed)	units	Ba - Barium	mg/l		
TOC	mg/l	Ca - Calcium	mg/l		
Chloride	mg/l	Cd - Cadmium	mg/l		
Arsenic	mg/l	Chromium: Total	mg/l		
Grease and Oils	mg/l	Cu - Copper	mg/l	ORGANICS: (by GC, GC/MS,	
Phenol	mg/l	Fe - Iron	mg/l	(Specify test and method #.	
Sulfate	mg/l	Hg - Mercury	mg/l	Report Attached? ☐	
Specific Conductance	µMhos	K - Potassium	mg/l	VOC	, met
Total Ammonia (Ammonia Nitrogen; NH_3 as N; Ammonia Nitrogen, Total)	mg/l	Mg - Magnesium	mg/l		, met
		Mn - Manganese	mg/l		, met
TKN as N	mg/l	Ni - Nickel	mg/l		, met

For Remediation Systems Only (Attach Lab Reports): Influent Total VOCs: _____ mg/L Effluent Total VOCs: _____

[redacted]

James Cashwell, P.E., Sr. Associate - Environmental Remediation

Permittee (or Authorized Agent) Name and Title - Please print or type

Signature of Permittee (or Authorized Agent)

GW-59 Rev. 1/2007

SUBMIT FORM ON YELLOW PAPER ONLY

GROUNDWATER QUALITY MONITORING: COMPLIANCE REPORT FORM

FACILITY INFORMATION *Please Print Clearly or Type*

Facility Name: Geigy Chemical Corporation Site

Permit Name (if different):

Facility Address: Domino Drive

Aberdeen (City) NC (State) 28315 (Zip) County Moore

Contact Person: James Cashwell Telephone#: 423.336.4012

Well Location/Site Name: No. of wells to be sampled: (from Permit)

PERMIT Number: Ex

Non-Discharge WQ0009949

NPDES

TYPE OF PERMITTED OPERATION

- ☐ Lagoon ☐
- ☐ Spray Field ☒
- ☐ Rotary Distributor ☐
- ☐ Water Source Heat Pump ☐

SAMPLING INFORMATION

WELL ID NUMBER (from Permit): PZ-3 Date sample collected: 10/13/11

Well Depth: 61.54 ft. Well Diameter: 2 in.

Depth to Water Level: 37.21 ft. below measuring point Screened Interval: 51.5 ft. to 61.5 ft.

Measuring Point is ft. above land surface Relative M.P. Elevation: 381.02 ft.

Volume of water pumped/bailed before sampling: 3.25 gallons

Samples for metals were collected unfiltered: ☐ YES ☐ NO and field acidified: ☐ YES ☐ NO

FIELD ANALYSES:

pH 4.80 units Tem

Spec. Cond.

Odor None

Appearance Clear

LABORATORY INFORMATION

Date sample analyzed: 10/21/11-PEST Laboratory Name: Test America Certificat

PARAMETERS NOTE: Values should reflect dissolved and colloidal concentrations.

COD	mg/l	Nitrite (NO_2) as N	mg/l	Pb - Lead	
Coliform: MF Fecal	/100ml	Nitrate (NO_3) as N	mg/l	Zn - Zinc	
Coliform: MF Total	/100ml	Phosphorus: Total as P	mg/l		
(Note: Use MPN method for highly turbid samples)		Orthophosphate	mg/l	Other (Specify Compounds ar	
Dissolved Solids: Total	mg/l	Al - Aluminum	mg/l	TCL Pesticides - Results	
pH (when analyzed)	units	Ba - Barium	mg/l		
TOC	mg/l	Ca - Calcium	mg/l		
Chloride	mg/l	Cd - Cadmium	mg/l		
Arsenic	mg/l	Chromium: Total	mg/l		
Grease and Oils	mg/l	Cu - Copper	mg/l	ORGANICS: (by GC, GC/MS,	
Phenol	mg/l	Fe - Iron	mg/l	(Specify test and method #.	
Sulfate	mg/l	Hg - Mercury	mg/l	Report Attached? ☐	
Specific Conductance	µMhos	K - Potassium	mg/l	VOC	, me
Total Ammonia (Ammonia Nitrogen; NH_3 as N; Ammonia Nitrogen, Total)	mg/l	Mg - Magnesium	mg/l		, me
		Mn - Manganese	mg/l		, me
TKN as N	mg/l	Ni - Nickel	mg/l		, me

For Remediation Systems Only (Attach Lab Reports): Influent Total VOCs: mg/L Effluent Total VOCs:

James Cashwell, P.E., Sr. Associate - Environmental Remediation

Permittee (or Authorized Agent) Name and Title - Please print or type

Signature of Permittee (or Authorized Agent)

GW-59 Rev. 1/2007

SUBMIT FORM ON YELLOW PAPER ONLY

GROUNDWATER QUALITY MONITORING: COMPLIANCE REPORT FORM

[redacted]

FACILITY INFORMATION *Please Print Clearly or Type*

Facility Name: Geigy Chemical Corporation Site

Permit Name (if different):

Facility Address: Domino Drive (Street)

Aberdeen (City) NC (State) 28315 (Zip) County Moore

Contact Person: James Cashwell Telephone#: 423.336.4012

Well Location/Site Name: No. of wells to be sampled: (from Permit)

PERMIT Number: Exp

Non-Discharge WQ0009949

NPDES

TYPE OF PERMITTED OPERATION

- ☐ Lagoon ☐
- ☐ Spray Field ☒
- ☐ Rotary Distributor ☐
- ☐ Water Source Heat Pump ☐

SAMPLING INFORMATION

WELL ID NUMBER (from Permit): PZ-5 Date sample collected: 10/12/11

Well Depth: 30.12 ft. Well Diameter: 2 in.

Depth to Water Level: 7.52 ft. below measuring point Screened Interval: 20.1 ft. to 30.1 ft.

Measuring Point is ____ ft. above land surface Relative M.P. Elevation: 335.98 ft.

Volume of water pumped/bailed before sampling: 5 gallons

Samples for metals were collected unfiltered: ☐YES ☐NO and field acidified: ☐YES ☐NO

FIELD ANALYSES:

pH 4.47 units Temp

Spec. Cond.

Odor None

Appearance Red - tan clo

LABORATORY INFORMATION

Date sample analyzed: 10/25/11-PEST Laboratory Name: Test America Certificatio

PARAMETERS NOTE: Values should reflect dissolved and colloidal concentrations.

COD	mg/l	Nitrite (NO_2) as N	mg/l	Pb - Lead	
Coliform: MF Fecal	/100ml	Nitrate (NO_3) as N	mg/l	Zn - Zinc	
Coliform: MF Total	/100ml	Phosphorus: Total as P	mg/l		
(Note: Use MPN method for highly turbid samples)		Orthophosphate	mg/l	Other (Specify Compounds and	
Dissolved Solids: Total	mg/l	Al - Aluminum	mg/l	TCL Pesticides - Results	
pH (when analyzed)	units	Ba - Barium	mg/l		
TOC	mg/l	Ca - Calcium	mg/l		
Chloride	mg/l	Cd - Cadmium	mg/l		
Arsenic	mg/l	Chromium: Total	mg/l		
Grease and Oils	mg/l	Cu - Copper	mg/l	ORGANICS: (by GC, GC/MS,	
Phenol	mg/l	Fe - Iron	mg/l	(Specify test and method if A	
Sulfate	mg/l	Hg - Mercury	mg/l	Report Attached? ☐	
Specific Conductance	µMhos	K - Potassium	mg/l	VOC	, met
Total Ammonia (Ammonia Nitrogen; NH_3 as N; Ammonia Nitrogen, Total)	mg/l	Mg - Magnesium	mg/l		, met
		Mn - Manganese	mg/l		, met
TKN as N	mg/l	Ni - Nickel	mg/l		, met

For Remediation Systems Only (Attach Lab Reports): Influent Total VOCs: ____ mg/L Effluent Total VOCs: ____

[redacted]

James Cashwell, P.E., Sr. Associate - Environmental Remediation

Permittee (or Authorized Agent) Name and Title - Please print or type

Signature of Permittee (or Authorized Agent)

GW-59 Rev. 1/2007

SUBMIT FORM ON YELLOW PAPER ONLY

GROUNDWATER QUALITY MONITORING: COMPLIANCE REPORT FORM

[redacted]

FACILITY INFORMATION *Please Print Clearly or Type*

Facility Name: Geigy Chemical Corporation Site

Permit Name (if different):

Facility Address: Domino Drive (Street)

Aberdeen (City) NC (State) (Zip) County Moore

Contact Person: James Cashwell Telephone#: 423.336.4012

Well Location/Site Name: No. of wells to be sampled: (from Permit)

PERMIT Number: Exp

Non-Discharge WQ0009949

NPDES

TYPE OF PERMITTED OPERATION

- ☐ Lagoon ☐
- ☐ Spray Field ☒
- ☐ Rotary Distributor ☐
- ☐ Water Source Heat Pump ☐

SAMPLING INFORMATION

WELL ID NUMBER (from Permit): Influent

Date sample collected: 10/13/11

Well Depth: ft.

Well Diameter: in.

Depth to Water Level: ft. below measuring point

Screened Interval: ft. to ft.

Measuring Point is ft. above land surface

Relative M.P. Elevation: ft.

Volume of water pumped/bailed before sampling: gallons

Samples for metals were collected unfiltered: ☐YES ☐NO and field acidified: ☐YES ☐NO

FIELD ANALYSES:

pH 4.03 units Temp

Spec. Cond. (

Odor None

Appearance Clear

LABORATORY INFORMATION

Date sample analyzed: 10/25/11-TCE 10/21&25/11-PEST Laboratory Name: Test America Certificati

PARAMETERS NOTE: Values should reflect dissolved and colloidal concentrations.

COD	mg/l	Nitrite (NO_2) as N	mg/l	Pb - Lead	
Coliform: MF Fecal	/100ml	Nitrate (NO_3) as N	mg/l	Zn - Zinc	
Coliform: MF Total	/100ml	Phosphorus: Total as P	mg/l		
(Note: Use MPN method for highly turbid samples)		Orthophosphate	mg/l	Other (Specify Compounds and	
Dissolved Solids: Total	mg/l	Al - Aluminum	mg/l	Alpha-BHC 0.071, Beta-B	
pH (when analyzed)	units	Ba - Barium	mg/l	delta-BHC 0.6 Gamma-BH	
TOC	mg/l	Ca - Calcium	mg/l	Dieldrin 0.28, 4,4'-DDE =	
Chloride	mg/l	Cd - Cadmium	mg/l	Endrin Ketone 0.25 ppb	
Arsenic	mg/l	Chromium: Total	mg/l	Toxaphene = 1.4Jp; Trich	
Grease and Oils	mg/l	Cu - Copper	mg/l	ORGANICS: (by GC, GC/MS,	
Phenol	mg/l	Fe - Iron	mg/l	(Specify test and method #. A	
Sulfate	mg/l	Hg - Mercury	mg/l	Report Attached? ☒	
Specific Conductance	µMhos	K - Potassium	mg/l	VOC	, met
Total Ammonia	mg/l	Mg - Magnesium	mg/l	Pest & Biphenyls	, met
(Ammonia Nitrogen; NH_3 as N; Ammonia Nitrogen, Total)		Mn - Manganese	mg/l		, met
TKN as N	mg/l	Ni - Nickel	mg/l		, met

For Remediation Systems Only (Attach Lab Reports): Influent Total VOCs: 0.002 mg/L Effluent Total VOCs: <0.00013

[redacted]

James Cashwell, P.E., Sr. Associate - Environmental Remediation

Permittee (or Authorized Agent) Name and Title - Please print or type

Signature of Permittee (or Authorized Agent)

GW-59 Rev. 1/2007

SUBMIT FORM ON YELLOW PAPER ONLY

GROUNDWATER QUALITY MONITORING: COMPLIANCE REPORT FORM

[redacted]

FACILITY INFORMATION *Please Print Clearly or Type*

Facility Name: Geigy Chemical Corporation Site

Permit Name (if different):

Facility Address: Domino Drive (Street)

Aberdeen (City) NC (State) (Zip) County Moore

Contact Person: James Cashwell Telephone#: 423.336.4012

Well Location/Site Name: No. of wells to be sampled: (from Permit)

PERMIT Number: Ex

Non-Discharge WQ0009949

NPDES

TYPE OF PERMITTED OPERATION

- ☐ Lagoon ☐
- ☐ Spray Field ☒
- ☐ Rotary Distributor ☐
- ☐ Water Source Heat Pump ☐

SAMPLING INFORMATION

WELL ID NUMBER (from Permit): Effluent Date sample collected: 10/13/11

Well Depth: ft. Well Diameter: in.

Depth to Water Level: ft. below measuring point Screened Interval: ft. to ft.

Measuring Point is ft. above land surface Relative M.P. Elevation: ft.

Volume of water pumped/bailed before sampling: gallons

Samples for metals were collected unfiltered: ☐ YES ☐ NO and field acidified: ☐ YES ☐ NO

FIELD ANALYSES:

pH 4.05 units Temp

Spec. Cond.

Odor None

Appearance Clear

LABORATORY INFORMATION

Date sample analyzed: 10/25/11-TCE 10/21&25/11-PEST Laboratory Name: Test America Certificati

PARAMETERS NOTE: Values should reflect dissolved and colloidal concentrations.

COD	mg/l	Nitrite (NO_2) as N	mg/l	Pb - Lead	
Coliform: MF Fecal	/100ml	Nitrate (NO_3) as N	mg/l	Zn - Zinc	
Coliform: MF Total	/100ml	Phosphorus: Total as P	mg/l		
(Note: Use MPN method for highly turbid samples)		Orthophosphate	mg/l	Other (Specify Compounds an	
Dissolved Solids: Total	mg/l	Al - Aluminum	mg/l	TCE- BQL	
pH (when analyzed)	units	Ba - Barium	mg/l	PEST = BQL	
TOC	mg/l	Ca - Calcium	mg/l		
Chloride	mg/l	Cd - Cadmium	mg/l		
Arsenic	mg/l	Chromium: Total	mg/l		
Grease and Oils	mg/l	Cu - Copper	mg/l	ORGANICS: (by GC, GC/MS,	
Phenol	mg/l	Fe - Iron	mg/l	(Specify test and method #.	
Sulfate	mg/l	Hg - Mercury	mg/l	Report Attached?	☒
Specific Conductance	µMhos	K - Potassium	mg/l	VOC	, met
Total Ammonia (Ammonia Nitrogen; NH_3 as N; Ammonia Nitrogen, Total)	mg/l	Mg - Magnesium	mg/l	Pest & Biphenyls	, met
		Mn - Manganese	mg/l		, met
TKN as N	mg/l	Ni - Nickel	mg/l		, met

For Remediation Systems Only (Attach Lab Reports): Influent Total VOCs: 0.002 mg/L Effluent Total VOCs: <0.00013

[redacted]

James Cashwell, P.E., Sr. Associate - Environmental Remediation

Permittee (or Authorized Agent) Name and Title - Please print or type

Signature of Permittee (or Authorized Agent)

GW-59 Rev. 1/2007

KLEINFELDER
Bright People. Right Solutions.

Client: Olin/Syngenta
Project Number: 124792

GROUNDWATER SAMPLING FIELD DATA

Location: Aberdeen, North Carolina
Source/Well: MW-16D
Locked: Yes [X] No [ ]
PVC [X] Steel [ ] Stainless Steel [ ]
Measuring point description: TOC

Purge Date: 10/11/2011
Purge Time: 15:50 to 16:00
Sample Date: 10/11/2011
Sample Time: 16:02
Sampled By: AB

Water Level and Well Data

1)	Depth to free product from measuring point	NA	ft.
2)	Depth to water from measuring point	94.59	ft.
3)	Thickness of free product	NA	ft.
4)	Depth to well bottom from measuring point	123.57	ft.
5)	Height of water column (h)	28.98	ft.

Well Purging and Sample Collection

1) Purge Method: DEDICATED WELL WIZARD
2) Sample Method: DEDICATED WELL WIZARD
3) Flow Rate: 0.3 gal/min
4) Volume of water in well
   - [ ] 1" well . . . . (v = 0.041 x h)
   - [X] 2" well . . . . (v = 0.163 x h)
   - [ ] 4" well . . . . (v = 0.651 x h)
   - [ ] 6" well . . . . (v = 1.5 x h)

   4.72 gal.
5) Volume of water removed prior to sampling: 3 gal.
6) Was well purged DRY? YES [ ] NO [X]

Field Analysis

1) Turbidity	3.62	NTU
2) Temperature	17.2	°C
3) Specific Conductance	0.031	ms/cm^3
4) pH	4.21	
5) Dissolved Oxygen	8.8	mg/L
6) ORP	267	mV

7) Physical Apperance and Odor: No odor / Clear
8) Other: Only collected VOCs

KLEINFELDER
Bright People. Right Solutions.

Client: Olin/Syngenta
Project Number: 124792

GROUNDWATER SAMPLING FIELD DATA

Location: Aberdeen, North Carolina
Source/Well: MW-17D
Locked: Yes [X] No [ ]
PVC [X] Steel [ ] Stainless Steel [ ]
Measuring point description: TOC

Purge Date: 10/11/2011
Purge Time: 15:09 to 15:27
Sample Date: 10/11/2011
Sample Time: 15:29
Sampled By: AB/PFP

Water Level and Well Data

1)	Depth to free product from measuring point	NA	ft.
2)	Depth to water from measuring point	96.56	ft.
3)	Thickness of free product	NA	ft.
4)	Depth to well bottom from measuring point	123.17	ft.
5)	Height of water column (h)	26.61	ft.

Well Purging and Sample Collection

1) Purge Method: DEDICATED WELL WIZARD
2) Sample Method: DEDICATED WELL WIZARD
3) Flow Rate: 0.25 gal/min
4) Volume of water in well
   - [ ] 1" well . . . . (v = 0.041 x h)
   - [X] 2" well . . . . (v = 0.163 x h)
   - [ ] 4" well . . . . (v = 0.651 x h)
   - [ ] 6" well . . . . (v = 1.5 x h)

   4.34 gal.
5) Volume of water removed prior to sampling: 5 gal.
6) Was well purged DRY? YES [ ] NO [X]

Field Analysis

1) Turbidity	2.9	NTU
2) Temperature	17.03	°C
3) Specific Conductance	0.032	ms/cm^3
4) pH		
5) Dissolved Oxygen	9.48	mg/L
6) ORP	263.4	mV

7) Physical Apperance and Odor: No odor / Clear
8) Other

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Client: Olin/Syngenta
Project Number: 124792

GROUNDWATER SAMPLING FIELD DATA

Location: Aberdeen, North Carolina
Source/Well: MW-18D
Locked: Yes [X] No [ ]
PVC [X] Steel [ ] Stainless Steel [ ]
Measuring point description: TOC

Purge Date: 10/11/2011
Purge Time: 12:49 to 13:04
Sample Date: 10/11/2011
Sample Time: 13:07
Sampled By: PFP

Water Level and Well Data

1)	Depth to free product from measuring point	NA	ft.
2)	Depth to water from measuring point	58.87	ft.
3)	Thickness of free product	NA	ft.
4)	Depth to well bottom from measuring point	72.36	ft.
5)	Height of water column (h)	13.49	ft.

Well Purging and Sample Collection

1) Purge Method: DEDICATED WELL WIZARD
2) Sample Method: DEDICATED WELL WIZARD
3) Flow Rate: 0.29 gal/min
4) Volume of water in well
   - [ ] 1" well . . . . (v = 0.041 x h)
   - [X] 2" well . . . . (v = 0.163 x h)
   - [ ] 4" well . . . . (v = 0.651 x h)
   - [ ] 6" well . . . . (v = 1.5 x h)

   2.20 gal.
5) Volume of water removed prior to sampling: 4 gal.
6) Was well purged DRY? YES [ ] NO [X]

Field Analysis

1) Turbidity	3	NTU
2) Temperature	16.64	°C
3) Specific Conductance	0.064	ms/cm^3
4) pH	4.22	
5) Dissolved Oxygen	9.01	mg/L
6) ORP	234.4	mV

7) Physical Apperance and Odor: No odor / Clear
8) Other

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Client: Olin/Syngenta
Project Number: 124792

GROUNDWATER SAMPLING FIELD DATA

Location: Aberdeen, North Carolina
Source/Well: MW-20D
Locked: Yes [X] No [ ]
PVC [X] Steel [ ] Stainless Steel [ ]
Measuring point description: TOC

Purge Date: --
Purge Time: -- to --
Sample Date: --
Sample Time: --
Sampled By: --

Water Level and Well Data

1)	Depth to free product from measuring point	NA	ft.
2)	Depth to water from measuring point	--	ft.
3)	Thickness of free product	NA	ft.
4)	Depth to well bottom from measuring point	47.44	ft.
5)	Height of water column (h)	#VALUE!	ft.

Well Purging and Sample Collection

1) Purge Method: DEDICATED WELL WIZARD
2) Sample Method: DEDICATED WELL WIZARD
3) Flow Rate: -- gal/min
4) Volume of water in well
   - [ ] 1" well . . . . (v = 0.041 x h)
   - [X] 2" well . . . . (v = 0.163 x h)
   - [ ] 4" well . . . . (v = 0.651 x h)
   - [ ] 6" well . . . . (v = 1.5 x h)

   #VALUE! gal.
5) Volume of water removed prior to sampling: -- gal.
6) Was well purged DRY? YES [ ] NO [ ]

Field Analysis

1) Turbidity	--	NTU
2) Temperature	--	°C
3) Specific Conductance	--	ms/cm^3
4) pH	--	
5) Dissolved Oxygen	--	mg/L
6) ORP	--	mV

7) Physical Apperance and Odor: --
8) Other: Dry Well

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Client: Olin/Syngenta
Project Number: 124792

GROUNDWATER SAMPLING FIELD DATA

Location: Aberdeen, North Carolina
Source/Well: MW-22D
Locked: Yes [X] No [ ]
PVC [X] Steel [ ] Stainless Steel [ ]
Measuring point description: TOC

Purge Date: 10/12/2011
Purge Time: 10:25 to 10:35
Sample Date: 10/11/2012
Sample Time: 10:37
Sampled By: AB

Water Level and Well Data

1)	Depth to free product from measuring point	NA	ft.
2)	Depth to water from measuring point	66.43	ft.
3)	Thickness of free product	NA	ft.
4)	Depth to well bottom from measuring point	85.73	ft.
5)	Height of water column (h)	19.30	ft.

Well Purging and Sample Collection

1) Purge Method: DEDICATED WELL WIZARD
2) Sample Method: DEDICATED WELL WIZARD
3) Flow Rate: 0.35 gal/min
4) Volume of water in well
   - [ ] 1" well . . . . (v = 0.041 x h)
   - [X] 2" well . . . . (v = 0.163 x h)
   - [ ] 4" well . . . . (v = 0.651 x h)
   - [ ] 6" well . . . . (v = 1.5 x h)

   3.15 gal.
5) Volume of water removed prior to sampling: 4 gal.
6) Was well purged DRY? YES [ ] NO [X]

Field Analysis

1) Turbidity	0.37	NTU
2) Temperature	17.63	°C
3) Specific Conductance	0.034	ms/cm^3
4) pH	4.11	
5) Dissolved Oxygen	7.79	mg/L
6) ORP	288.1	mV

7) Physical Apperance and Odor: No odor / Clear
8) Other:

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Client: Olin/Syngenta
Project Number: 124792

GROUNDWATER SAMPLING FIELD DATA

Location: Aberdeen, North Carolina
Source/Well: MW-23D
Locked: Yes [X] No [ ]
PVC [X] Steel [ ] Stainless Steel [ ]
Measuring point description: TOC

Purge Date: 10/12/2011
Purge Time: 10:08 to 10:23
Sample Date: 10/12/2011
Sample Time: 10:26
Sampled By: PFP

Water Level and Well Data

1)	Depth to free product from measuring point	NA	ft.
2)	Depth to water from measuring point	70.68	ft.
3)	Thickness of free product	NA	ft.
4)	Depth to well bottom from measuring point	87.96	ft.
5)	Height of water column (h)	17.28	ft.

Well Purging and Sample Collection

1) Purge Method: DEDICATED WELL WIZARD
2) Sample Method: DEDICATED WELL WIZARD
3) Flow Rate: 0.13 gal/min
4) Volume of water in well

- [ ] 1" well . . . . (v = 0.041 x h)
- [X] 2" well . . . . (v = 0.163 x h)
- [ ] 4" well . . . . (v = 0.651 x h)
- [ ] 6" well . . . . (v = 1.5 x h)

2.82 gal.

5) Volume of water removed prior to sampling: 2 gal.
6) Was well purged DRY? YES [ ] NO [X]

Field Analysis

1) Turbidity	2.9	NTU
2) Temperature	17.54	°C
3) Specific Conductance	0.025	ms/cm^3
4) pH	4.62	
5) Dissolved Oxygen	8.83	mg/L
6) ORP	279.9	mV

7) Physical Apperance and Odor: No Odor / Clear
8) Other:

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Client: Olin/Syngenta
Project Number: 124792

GROUNDWATER SAMPLING FIELD DATA

Location: Aberdeen, North Carolina
Source/Well: MW-26D
Locked: Yes [X] No [ ]
PVC [X] Steel [ ] Stainless Steel [ ]
Measuring point description: TOC

Purge Date: 10/12/2011
Purge Time: 15:08 to 15:23
Sample Date: 10/12/2011
Sample Time: 15:24
Sampled By: AB/PFP

Water Level and Well Data

1)	Depth to free product from measuring point	NA	ft.
2)	Depth to water from measuring point	8.05	ft.
3)	Thickness of free product	NA	ft.
4)	Depth to well bottom from measuring point	27.35	ft.
5)	Height of water column (h)	19.30	ft.

Well Purging and Sample Collection

1) Purge Method: DEDICATED WELL WIZARD
2) Sample Method: DEDICATED WELL WIZARD
3) Flow Rate: 0.27 gal/min
4) Volume of water in well
   - [ ] 1" well . . . . (v = 0.041 x h)
   - [X] 2" well . . . . (v = 0.163 x h)
   - [ ] 4" well . . . . (v = 0.651 x h)
   - [ ] 6" well . . . . (v = 1.5 x h) — 3.15 gal.
5) Volume of water removed prior to sampling: 4 gal.
6) Was well purged DRY? YES [ ] NO [X]

Field Analysis

1) Turbidity	4	NTU
2) Temperature	17.19	°C
3) Specific Conductance	0.047	ms/cm^3
4) pH	4.57	
5) Dissolved Oxygen	8.04	mg/L
6) ORP	235.7	mV

7) Physical Apperance and Odor: No odor / Clear
8) Other:

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Client: Olin/Syngenta
Project Number: 124792

GROUNDWATER SAMPLING FIELD DATA

Location: Aberdeen, North Carolina
Source/Well: MW-30D
Locked: Yes [X] No [ ]
PVC [X] Steel [ ] Stainless Steel [ ]
Measuring point description: TOC

Purge Date: 10/11/2011
Purge Time: 11:43 to 11:58
Sample Date: 10/11/2011
Sample Time: 12:01
Sampled By: PFP

Water Level and Well Data

1)	Depth to free product from measuring point	NA	ft.
2)	Depth to water from measuring point	61.65	ft.
3)	Thickness of free product	NA	ft.
4)	Depth to well bottom from measuring point	75.38	ft.
5)	Height of water column (h)	13.73	ft.

Well Purging and Sample Collection

1) Purge Method: DEDICATED WELL WIZARD
2) Sample Method: DEDICATED WELL WIZARD
3) Flow Rate: 0.22 gal/min
4) Volume of water in well

- [ ] 1" well . . . . (v = 0.041 x h)
- [X] 2" well . . . . (v = 0.163 x h)
- [ ] 4" well . . . . (v = 0.651 x h)
- [ ] 6" well . . . . (v = 1.5 x h)

2.24 gal.

5) Volume of water removed prior to sampling: 3 gal.
6) Was well purged DRY? YES [ ] NO [X]

Field Analysis

1) Turbidity	2.9	NTU
2) Temperature	16.54	°C
3) Specific Conductance	0.037	ms/cm^3
4) pH	4.56	
5) Dissolved Oxygen	9.04	mg/L
6) ORP	201.19	mV

7) Physical Apperance and Odor: No odor / Clear
8) Other:

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Client: Olin/Syngenta
Project Number: 124792

GROUNDWATER SAMPLING FIELD DATA

Location: Aberdeen, North Carolina
Source/Well: MW-22L
Locked: Yes [X] No [ ]
PVC [X] Steel [ ] Stainless Steel [ ]
Measuring point description: TOC

Purge Date: 10/12/2011
Purge Time: 10:04 to 10:14
Sample Date: 10/12/2011
Sample Time: 10:17
Sampled By: AB

Water Level and Well Data

1)	Depth to free product from measuring point	NA	ft.
2)	Depth to water from measuring point	71.67	ft.
3)	Thickness of free product	NA	ft.
4)	Depth to well bottom from measuring point	145.20	ft.
5)	Height of water column (h)	73.53	ft.

Well Purging and Sample Collection

1) Purge Method: DEDICATED WELL WIZARD
2) Sample Method: DEDICATED WELL WIZARD
3) Flow Rate: 0.6 gal/min
4) Volume of water in well
   - [ ] 1" well . . . . (v = 0.041 x h)
   - [X] 2" well . . . . (v = 0.163 x h)
   - [ ] 4" well . . . . (v = 0.651 x h)
   - [ ] 6" well . . . . (v = 1.5 x h)

   11.99 gal.
5) Volume of water removed prior to sampling: 6 gal.
6) Was well purged DRY? YES [ ] NO [X]

Field Analysis

1) Turbidity		NTU
2) Temperature	17.46	°C
3) Specific Conductance	0.067	ms/cm^3
4) pH	3.8	
5) Dissolved Oxygen	5.4	mg/L
6) ORP	298	mV

7) Physical Apperance and Odor: No odor / Clear
8) Other:

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Client: Olin/Syngenta
Project Number: 124792

GROUNDWATER SAMPLING FIELD DATA

Location: Aberdeen, North Carolina
Source/Well: MW-25L
Locked: Yes [X] No [ ]
PVC [X] Steel [ ] Stainless Steel [ ]
Measuring point description: TOC

Purge Date: 10/12/2011
Purge Time: 11:10 to 11:20
Sample Date: 10/12/2011
Sample Time: 11:23
Sampled By: AB

Water Level and Well Data

1)	Depth to free product from measuring point	NA	ft.
2)	Depth to water from measuring point	27.59	ft.
3)	Thickness of free product	NA	ft.
4)	Depth to well bottom from measuring point	74.60	ft.
5)	Height of water column (h)	47.01	ft.

Well Purging and Sample Collection

1) Purge Method: DEDICATED WELL WIZARD
2) Sample Method: DEDICATED WELL WIZARD
3) Flow Rate: 0.6 gal/min
4) Volume of water in well
   - [ ] 1" well . . . . (v = 0.041 x h)
   - [X] 2" well . . . . (v = 0.163 x h)
   - [ ] 4" well . . . . (v = 0.651 x h)
   - [ ] 6" well . . . . (v = 1.5 x h)

   7.66 gal.
5) Volume of water removed prior to sampling: 10 gal.
6) Was well purged DRY? YES [ ] NO [X]

Field Analysis

1) Turbidity	--	NTU
2) Temperature	17.23	°C
3) Specific Conductance	0.022	ms/cm^3
4) pH	4.15	
5) Dissolved Oxygen	7.18	mg/L
6) ORP	291.1	mV

7) Physical Apperance and Odor: No odor / Clear
8) Other

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Client: Olin/Syngenta
Project Number: 124792

GROUNDWATER SAMPLING FIELD DATA

Location: Aberdeen, North Carolina
Source/Well: MW-27L
Locked: Yes [X] No [ ]
PVC [X] Steel [ ] Stainless Steel [ ]
Measuring point description: TOC

Purge Date: 10/12/2011
Purge Time: 12:01 to 12:16
Sample Date: 10/12/2011
Sample Time: 12:18
Sampled By: PFP

Water Level and Well Data

1)	Depth to free product from measuring point	NA	ft.
2)	Depth to water from measuring point	36.76	ft.
3)	Thickness of free product	NA	ft.
4)	Depth to well bottom from measuring point	86.54	ft.
5)	Height of water column (h)	49.78	ft.

Well Purging and Sample Collection

1) Purge Method: DEDICATED WELL WIZARD
2) Sample Method: DEDICATED WELL WIZARD
3) Flow Rate: 0.18 gal/min
4) Volume of water in well
   - [ ] 1" well . . . . (v = 0.041 x h)
   - [X] 2" well . . . . (v = 0.163 x h)
   - [ ] 4" well . . . . (v = 0.651 x h)
   - [ ] 6" well . . . . (v = 1.5 x h)

   8.11 gal.
5) Volume of water removed prior to sampling: 3 gal.
6) Was well purged DRY? YES [ ] NO [X]

Field Analysis

1) Turbidity	7.9	NTU
2) Temperature	16.97	°C
3) Specific Conductance	0.075	ms/cm^3
4) pH	4.42	
5) Dissolved Oxygen	1.22	mg/L
6) ORP	332.2	mV

7) Physical Apperance and Odor: No odor / Slightly tan cloudy
8) Other

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Client: Olin/Syngenta
Project Number: 124792

GROUNDWATER SAMPLING FIELD DATA

Location: Aberdeen, North Carolina
Source/Well: MW-31L
Locked: Yes [X] No [ ]
PVC [X] Steel [ ] Stainless Steel [ ]
Measuring point description: TOC

Purge Date: 10/12/2011
Purge Time: 15:59 to 16:09
Sample Date: 10/12/2011
Sample Time: 16:11
Sampled By: AB

Water Level and Well Data

1)	Depth to free product from measuring point	NA	ft.
2)	Depth to water from measuring point	3.78	ft.
3)	Thickness of free product	NA	ft.
4)	Depth to well bottom from measuring point	22.00	ft.
5)	Height of water column (h)	18.22	ft.

Well Purging and Sample Collection

1) Purge Method: DEDICATED WELL WIZARD
2) Sample Method: DEDICATED WELL WIZARD
3) Flow Rate: 0.45 gal/min
4) Volume of water in well

- [ ] 1" well . . . . (v = 0.041 x h)
- [X] 2" well . . . . (v = 0.163 x h)
- [ ] 4" well . . . . (v = 0.651 x h)
- [ ] 6" well . . . . (v = 1.5 x h)

2.97 gal.

5) Volume of water removed prior to sampling: 5 gal.
6) Was well purged DRY? YES [ ] NO [X]

Field Analysis

1) Turbidity	1.55	NTU
2) Temperature	23.71	°C
3) Specific Conductance	0.061	ms/cm^3
4) pH	4.28	
5) Dissolved Oxygen	5.61	mg/L
6) ORP	239.7	mV

7) Physical Apperance and Odor: 0
8) Other:

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Client: Olin/Syngenta
Project Number: 124792

GROUNDWATER SAMPLING FIELD DATA

Location: Aberdeen, North Carolina
Source/Well: MW-32L
Locked: Yes [X] No [ ]
PVC [X] Steel [ ] Stainless Steel [ ]
Measuring point description: TOC

Purge Date: 10/12/2011
Purge Time: 14:21 to 14:31
Sample Date: 10/12/2011
Sample Time: 14:33
Sampled By: PFP/AB

Water Level and Well Data

1)	Depth to free product from measuring point	NA	ft.
2)	Depth to water from measuring point	4.38	ft.
3)	Thickness of free product	NA	ft.
4)	Depth to well bottom from measuring point	26.99	ft.
5)	Height of water column (h)	22.61	ft.

Well Purging and Sample Collection

1) Purge Method: DEDICATED WELL WIZARD
2) Sample Method: DEDICATED WELL WIZARD
3) Flow Rate: 0.35 gal/min
4) Volume of water in well

- [ ] 1" well . . . . (v = 0.041 x h)
- [X] 2" well . . . . (v = 0.163 x h)
- [ ] 4" well . . . . (v = 0.651 x h)
- [ ] 6" well . . . . (v = 1.5 x h)

3.69 gal.

5) Volume of water removed prior to sampling: 4 gal.
6) Was well purged DRY? YES [ ] NO [X]

Field Analysis

1) Turbidity	3.7	NTU
2) Temperature	19.49	°C
3) Specific Conductance	0.037	ms/cm^3
4) pH	5	
5) Dissolved Oxygen	0.45	mg/L
6) ORP	53.1	mV

7) Physical Apperance and Odor: Septic odor / Clear
8) Other

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Client: Olin/Syngenta
Project Number: 124792

GROUNDWATER SAMPLING FIELD DATA

Location: Aberdeen, North Carolina
Source/Well: MW-36L
Locked: Yes [X] No [ ]
PVC [X] Steel [ ] Stainless Steel [ ]
Measuring point description: TOC

Purge Date: 10/12/2011
Purge Time: 11:25 to 11:40
Sample Date: 10/12/2011
Sample Time: 11:42
Sampled By: PFP

Water Level and Well Data

1)	Depth to free product from measuring point	NA	ft.
2)	Depth to water from measuring point	41.26	ft.
3)	Thickness of free product	NA	ft.
4)	Depth to well bottom from measuring point	106.00	ft.
5)	Height of water column (h)	64.74	ft.

Well Purging and Sample Collection

1) Purge Method: DEDICATED WELL WIZARD
2) Sample Method: DEDICATED WELL WIZARD
3) Flow Rate: 0.12 gal/min
4) Volume of water in well
   - [ ] 1" well . . . . (v = 0.041 x h)
   - [X] 2" well . . . . (v = 0.163 x h)
   - [ ] 4" well . . . . (v = 0.651 x h)
   - [ ] 6" well . . . . (v = 1.5 x h)

   10.55 gal.
5) Volume of water removed prior to sampling: 3 gal.
6) Was well purged DRY? YES [ ] NO [X]

Field Analysis

1) Turbidity	6.1	NTU
2) Temperature	16.98	°C
3) Specific Conductance	0.018	ms/cm^3
4) pH	4.7	
5) Dissolved Oxygen	9.77	mg/L
6) ORP	286.4	mV

7) Physical Apperance and Odor: No odor / Clear
8) Other:

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Client: Olin/Syngenta
Project Number: 124792

GROUNDWATER SAMPLING FIELD DATA

Location: Aberdeen, North Carolina
Source/Well: MW-37L
Locked: Yes [X] No [ ]
PVC [X] Steel [ ] Stainless Steel [ ]
Measuring point description: TOC

Purge Date: 10/12/2011
Purge Time: 11:48 to 11:58
Sample Date: 10/12/2011
Sample Time: 12:00
Sampled By: AB

Water Level and Well Data

1)	Depth to free product from measuring point	NA	ft.
2)	Depth to water from measuring point	13.43	ft.
3)	Thickness of free product	NA	ft.
4)	Depth to well bottom from measuring point	46.18	ft.
5)	Height of water column (h)	32.75	ft.

Well Purging and Sample Collection

1) Purge Method: DEDICATED WELL WIZARD
2) Sample Method: DEDICATED WELL WIZARD
3) Flow Rate: 0.15 gal/min
4) Volume of water in well
   - [ ] 1" well . . . . (v = 0.041 x h)
   - [X] 2" well . . . . (v = 0.163 x h)
   - [ ] 4" well . . . . (v = 0.651 x h)
   - [ ] 6" well . . . . (v = 1.5 x h)

   5.34 gal.
5) Volume of water removed prior to sampling: 2 gal.
6) Was well purged DRY? YES [ ] NO [X]

Field Analysis

1) Turbidity	0.72	NTU
2) Temperature	16.84	°C
3) Specific Conductance	0.029	ms/cm^3
4) pH	3.95	
5) Dissolved Oxygen	5.96	mg/L
6) ORP	309.5	mV

7) Physical Apperance and Odor: No odor / Clear
8) Other:

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Client: Olin/Syngenta
Project Number: 124792

GROUNDWATER SAMPLING FIELD DATA

Location: Aberdeen, North Carolina
Source/Well: MW-38L
Locked: Yes [X] No [ ]
PVC [X] Steel [ ] Stainless Steel [ ]
Measuring point description: TOC

Purge Date: 10/13/2011
Purge Time: 9:54 to 10:09
Sample Date: 10/13/2011
Sample Time: 10:13
Sampled By: PFP

Water Level and Well Data

1)	Depth to free product from measuring point	NA	ft.
2)	Depth to water from measuring point	9.83	ft.
3)	Thickness of free product	NA	ft.
4)	Depth to well bottom from measuring point	28.14	ft.
5)	Height of water column (h)	18.31	ft.

Well Purging and Sample Collection

1) Purge Method: DEDICATED WELL WIZARD
2) Sample Method: DEDICATED WELL WIZARD
3) Flow Rate: 0.33 gal/min
4) Volume of water in well
   - [ ] 1" well . . . . (v = 0.041 x h)
   - [X] 2" well . . . . (v = 0.163 x h)
   - [ ] 4" well . . . . (v = 0.651 x h)
   - [ ] 6" well . . . . (v = 1.5 x h)

   2.98 gal.
5) Volume of water removed prior to sampling: 5 gal.
6) Was well purged DRY? YES [ ] NO [X]

Field Analysis

1) Turbidity	3.5	NTU
2) Temperature	20.22	°C
3) Specific Conductance	0.128	ms/cm^3
4) pH	5.84	
5) Dissolved Oxygen	0.3	mg/L
6) ORP		mV

7) Physical Apperance and Odor: Septic odor / Slightly cloudy
8) Other

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Client: Olin/Syngenta
Project Number: 124792

GROUNDWATER SAMPLING FIELD DATA

Location: Aberdeen, North Carolina
Source/Well: MW-39L
Locked: Yes [X] No [ ]
PVC [X] Steel [ ] Stainless Steel [ ]
Measuring point description: TOC

Purge Date: 10/13/2011
Purge Time: 9:13 to 9:33
Sample Date: 10/13/2011
Sample Time: 9:35
Sampled By: PFP

Water Level and Well Data

1)	Depth to free product from measuring point	NA	ft.
2)	Depth to water from measuring point	4.31	ft.
3)	Thickness of free product	NA	ft.
4)	Depth to well bottom from measuring point	20.29	ft.
5)	Height of water column (h)	15.98	ft.

Well Purging and Sample Collection

1) Purge Method: DEDICATED WELL WIZARD
2) Sample Method: DEDICATED WELL WIZARD
3) Flow Rate: 0.13 gal/min
4) Volume of water in well
   - [ ] 1" well . . . . (v = 0.041 x h)
   - [X] 2" well . . . . (v = 0.163 x h)
   - [ ] 4" well . . . . (v = 0.651 x h)
   - [ ] 6" well . . . . (v = 1.5 x h)

   2.60 gal.
5) Volume of water removed prior to sampling: 3 gal.
6) Was well purged DRY? YES [ ] NO [X]

Field Analysis

1) Turbidity	7.8	NTU
2) Temperature	21.78	°C
3) Specific Conductance	0.067	ms/cm^3
4) pH	4.97	
5) Dissolved Oxygen	0.62	mg/L
6) ORP	177.9	mV

7) Physical Apperance and Odor: No odor / Red tan cloudy
8) Other

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Client: Olin/Syngenta
Project Number: 124792

GROUNDWATER SAMPLING FIELD DATA

Location: Aberdeen, North Carolina
Source/Well: MW-40L
Locked: Yes [X] No [ ]
PVC [X] Steel [ ] Stainless Steel [ ]
Measuring point description: TOC

Purge Date: 10/13/2011
Purge Time: 12:10 to 12:19
Sample Date: 10/13/2011
Sample Time: 12:23
Sampled By: PFP

Water Level and Well Data

1)	Depth to free product from measuring point	NA	ft.
2)	Depth to water from measuring point	3.18	ft.
3)	Thickness of free product	NA	ft.
4)	Depth to well bottom from measuring point	27.76	ft.
5)	Height of water column (h)	24.58	ft.

Well Purging and Sample Collection

1) Purge Method: Disposable Bailer
2) Sample Method: Disposable Bailer
3) Flow Rate: – gal/min
4) Volume of water in well
   - [ ] 1" well . . . . (v = 0.041 x h)
   - [X] 2" well . . . . (v = 0.163 x h)
   - [ ] 4" well . . . . (v = 0.651 x h)
   - [ ] 6" well . . . . (v = 1.5 x h)

   4.01 gal.
5) Volume of water removed prior to sampling: 12 gal.
6) Was well purged DRY? YES [ ] NO [X]

Field Analysis

1) Turbidity	208.2	NTU
2) Temperature	18.29	°C
3) Specific Conductance	0.031	ms/cm^3
4) pH	4.74	
5) Dissolved Oxygen	9.15	mg/L
6) ORP	323.4	mV

7) Physical Apperance and Odor: No odor / Tan cloudy
8) Other: Pump missing

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Client: Olin/Syngenta
Project Number: 124792

GROUNDWATER SAMPLING FIELD DATA

Location: Aberdeen, North Carolina
Source/Well: MW-4S
Locked: Yes [X] No [ ]
PVC [X] Steel [ ] Stainless Steel [ ]
Measuring point description: TOC

Purge Date: 10/11/2011
Purge Time: – to –
Sample Date: 10/11/2011
Sample Time: 14:09
Sampled By: PFP

Water Level and Well Data

1)	Depth to free product from measuring point	NA	ft.
2)	Depth to water from measuring point	>40.83	ft.
3)	Thickness of free product	NA	ft.
4)	Depth to well bottom from measuring point	41.97	ft.
5)	Height of water column (h)	#VALUE!	ft.

Well Purging and Sample Collection

1) Purge Method: DEDICATED WELL WIZARD
2) Sample Method: DEDICATED WELL WIZARD
3) Flow Rate: – gal/min
4) Volume of water in well
   - [ ] 1" well . . . . (v = 0.041 x h)
   - [X] 2" well . . . . (v = 0.163 x h)
   - [ ] 4" well . . . . (v = 0.651 x h)
   - [ ] 6" well . . . . (v = 1.5 x h)

   #VALUE! gal.
5) Volume of water removed prior to sampling: – gal.
6) Was well purged DRY? YES [X] NO [ ]

Field Analysis

1) Turbidity	–	NTU
2) Temperature	–	°C
3) Specific Conductance	–	ms/cm^3
4) pH	–	
5) Dissolved Oxygen	-	mg/L
6) ORP	–	mV

7) Physical Apperance and Odor: Septic odor / Tan cloudy
8) Other: Water level at top of pump. Did not purge, sampled directly.

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Client: Olin/Syngenta
Project Number: 124792

GROUNDWATER SAMPLING FIELD DATA

Location: Aberdeen, North Carolina
Source/Well: MW-5S
Locked: Yes [X] No [ ]
PVC [X] Steel [ ] Stainless Steel [ ]
Measuring point description: TOC

Purge Date: 10/11/2011
Purge Time: 12:38 to 12:58
Sample Date: 10/11/2011
Sample Time: 13:00
Sampled By: AB

Water Level and Well Data

1)	Depth to free product from measuring point	NA	ft.
2)	Depth to water from measuring point	43.30	ft.
3)	Thickness of free product	NA	ft.
4)	Depth to well bottom from measuring point	47.44	ft.
5)	Height of water column (h)	4.14	ft.

Well Purging and Sample Collection

1) Purge Method: DEDICATED WELL WIZARD
2) Sample Method: DEDICATED WELL WIZARD
3) Flow Rate: 0.04 gal/min
4) Volume of water in well
   - [ ] 1" well . . . . (v = 0.041 x h)
   - [X] 2" well . . . . (v = 0.163 x h)
   - [ ] 4" well . . . . (v = 0.651 x h)
   - [ ] 6" well . . . . (v = 1.5 x h)

   0.67 gal.
5) Volume of water removed prior to sampling: 1 gal.
6) Was well purged DRY? YES [ ] NO [X]

Field Analysis

1) Turbidity	1.98	NTU
2) Temperature	17.86	°C
3) Specific Conductance	0.033	ms/cm^3
4) pH	4.02	
5) Dissolved Oxygen	7.34	mg/L
6) ORP	304.4	mV

7) Physical Apperance and Odor: No odor / Clear
8) Other: Very slow pumping

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Client: Olin/Syngenta
Project Number: 124792

GROUNDWATER SAMPLING FIELD DATA

Location: Aberdeen, North Carolina
Source/Well: MW-6S
Locked: Yes [X] No [ ]
PVC [X] Steel [ ] Stainless Steel [ ]
Measuring point description: TOC

Purge Date: 10/11/2011
Purge Time: -- to --
Sample Date: 10/11/2011
Sample Time: 14:10
Sampled By: AB

Water Level and Well Data

1)	Depth to free product from measuring point	NA	ft.
2)	Depth to water from measuring point	43.70	ft.
3)	Thickness of free product	NA	ft.
4)	Depth to well bottom from measuring point	47.01	ft.
5)	Height of water column (h)	3.31	ft.

Well Purging and Sample Collection

1) Purge Method: DEDICATED WELL WIZARD
2) Sample Method: DEDICATED WELL WIZARD
3) Flow Rate: -- gal/min
4) Volume of water in well
   - [ ] 1" well . . . . (v = 0.041 x h)
   - [X] 2" well . . . . (v = 0.163 x h)
   - [ ] 4" well . . . . (v = 0.651 x h)
   - [ ] 6" well . . . . (v = 1.5 x h) — 0.54 gal.
5) Volume of water removed prior to sampling: -- gal.
6) Was well purged DRY? YES [X] NO [ ]

Field Analysis

1) Turbidity	--	NTU
2) Temperature	--	°C
3) Specific Conductance	--	ms/cm^3
4) pH	--	
5) Dissolved Oxygen	-	mg/L
6) ORP	--	mV

7) Physical Apperance and Odor: 0
8) Other: Dry well. There was just enough water in the well to collect 3 VOAs and 1 Amber.

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Client: Olin/Syngenta
Project Number: 124792

GROUNDWATER SAMPLING FIELD DATA

Location: Aberdeen, North Carolina
Source/Well: MW-10S
Locked: Yes [X] No [ ]
PVC [X] Steel [ ] Stainless Steel [ ]
Measuring point description: TOC

Purge Date: 10/11/2011
Purge Time: 11:30 to 11:40
Sample Date: 10/11/2011
Sample Time: 11:42
Sampled By: AB

Water Level and Well Data

1)	Depth to free product from measuring point	NA	ft.
2)	Depth to water from measuring point	33.25	ft.
3)	Thickness of free product	NA	ft.
4)	Depth to well bottom from measuring point	41.36	ft.
5)	Height of water column (h)	8.11	ft.

Well Purging and Sample Collection

1) Purge Method: DEDICATED WELL WIZARD
2) Sample Method: DEDICATED WELL WIZARD
3) Flow Rate: 0.2 gal/min
4) Volume of water in well
   - [ ] 1" well . . . . (v = 0.041 x h)
   - [X] 2" well . . . . (v = 0.163 x h)
   - [ ] 4" well . . . . (v = 0.651 x h)
   - [ ] 6" well . . . . (v = 1.5 x h)

   1.32 gal.
5) Volume of water removed prior to sampling: 2.0 gal.
6) Was well purged DRY? YES [ ] NO [X]

Field Analysis

1) Turbidity	3.53	NTU
2) Temperature	16.91	°C
3) Specific Conductance	0.069	ms/cm^3
4) pH	4.29	
5) Dissolved Oxygen	7.6	mg/L
6) ORP	291.9	mV

7) Physical Apperance and Odor: Septic odor / Clear
8) Other:

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Client: Olin/Syngenta
Project Number: 124792

GROUNDWATER SAMPLING FIELD DATA

Location: Aberdeen, North Carolina
Source/Well: MW-16S
Locked: Yes [X] No [ ]
PVC [X] Steel [ ] Stainless Steel [ ]
Measuring point description: TOC

Purge Date: 10/11/2011
Purge Time: 10:11 to 10:26
Sample Date: 10/11/2011
Sample Time: 10:28
Sampled By: PFP

Water Level and Well Data

1)	Depth to free product from measuring point	NA	ft.
2)	Depth to water from measuring point	52.64	ft.
3)	Thickness of free product	NA	ft.
4)	Depth to well bottom from measuring point	68.04	ft.
5)	Height of water column (h)	15.40	ft.

Well Purging and Sample Collection

1) Purge Method: DEDICATED WELL WIZARD
2) Sample Method: DEDICATED WELL WIZARD
3) Flow Rate: 0.22 gal/min
4) Volume of water in well
   - [ ] 1" well . . . . (v = 0.041 x h)
   - [X] 2" well . . . . (v = 0.163 x h)
   - [ ] 4" well . . . . (v = 0.651 x h)
   - [ ] 6" well . . . . (v = 1.5 x h)

   2.51 gal.
5) Volume of water removed prior to sampling: 3 gal.
6) Was well purged DRY? YES [ ] NO [X]

Field Analysis

1) Turbidity	3.5	NTU
2) Temperature	16.96	°C
3) Specific Conductance	0.055	ms/cm^3
4) pH	4.63	
5) Dissolved Oxygen	9.24	mg/L
6) ORP	171.14	mV

7) Physical Apperance and Odor: No odor / Clear
8) Other:

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Client: Olin/Syngenta
Project Number: 124792

GROUNDWATER SAMPLING FIELD DATA

Location: Aberdeen, North Carolina
Source/Well: MW-17S
Locked: Yes [X] No [ ]
PVC [X] Steel [ ] Stainless Steel [ ]
Measuring point description: TOC

Purge Date: 10/11/2011
Purge Time: 10:36 to 10:56
Sample Date: 10/11/2011
Sample Time: 10:58
Sampled By: AB

Water Level and Well Data

1)	Depth to free product from measuring point	NA	ft.
2)	Depth to water from measuring point	49.31	ft.
3)	Thickness of free product	NA	ft.
4)	Depth to well bottom from measuring point	59.42	ft.
5)	Height of water column (h)	10.11	ft.

Well Purging and Sample Collection

1) Purge Method: DEDICATED WELL WIZARD
2) Sample Method: DEDICATED WELL WIZARD
3) Flow Rate: 0.2 gal/min
4) Volume of water in well

- [ ] 1" well . . . . (v = 0.041 x h)
- [X] 2" well . . . . (v = 0.163 x h)
- [ ] 4" well . . . . (v = 0.651 x h)
- [ ] 6" well . . . . (v = 1.5 x h)

1.65 gal.

5) Volume of water removed prior to sampling: 4 gal.
6) Was well purged DRY? YES [ ] NO [X]

Field Analysis

1) Turbidity	1.72	NTU
2) Temperature	17.14	°C
3) Specific Conductance	0.072	ms/cm^3
4) pH	3.88	
5) Dissolved Oxygen	8.44	mg/L
6) ORP	244.4	mV

7) Physical Apperance and Odor: No odor / Clear
8) Other:

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Client: Olin/Syngenta
Project Number: 124792

GROUNDWATER SAMPLING FIELD DATA

Location: Aberdeen, North Carolina
Source/Well: MW-18S
Locked: Yes [X] No [ ]
PVC [X] Steel [ ] Stainless Steel [ ]
Measuring point description: TOC

Purge Date: 10/11/2011
Purge Time: 10:58 to 10:08
Sample Date: 10/11/2011
Sample Time: 11:14
Sampled By: PFP

Water Level and Well Data

1)	Depth to free product from measuring point	NA	ft.
2)	Depth to water from measuring point	49.13	ft.
3)	Thickness of free product	NA	ft.
4)	Depth to well bottom from measuring point	49.75	ft.
5)	Height of water column (h)	0.62	ft.

Well Purging and Sample Collection

1) Purge Method: DEDICATED WELL WIZARD
2) Sample Method: DEDICATED WELL WIZARD
3) Flow Rate: 0.08 gal/min
4) Volume of water in well
   - [ ] 1" well . . . . (v = 0.041 x h)
   - [X] 2" well . . . . (v = 0.163 x h)
   - [ ] 4" well . . . . (v = 0.651 x h)
   - [ ] 6" well . . . . (v = 1.5 x h)

   0.10 gal.
5) Volume of water removed prior to sampling: 1 gal.
6) Was well purged DRY? YES [X] NO [ ]

Field Analysis

1) Turbidity	4.9	NTU
2) Temperature	17.25	°C
3) Specific Conductance	0.101	ms/cm^3
4) pH	4.12	
5) Dissolved Oxygen	8.91	mg/L
6) ORP	211.1	mV

7) Physical Apperance and Odor: No odor / Clear
8) Other:

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Client: Olin/Syngenta
Project Number: 124792

GROUNDWATER SAMPLING FIELD DATA

Location: Aberdeen, North Carolina
Source/Well: PZ-2
Locked: Yes [X] No [ ]
PVC [X] Steel [ ] Stainless Steel [ ]
Measuring point description: TOC

Purge Date: 10/13/2011
Purge Time: 10:30 to 10:45
Sample Date: 10/13/2011
Sample Time: 10:48
Sampled By: PFP

Water Level and Well Data

1)	Depth to free product from measuring point	NA	ft.
2)	Depth to water from measuring point	6.46	ft.
3)	Thickness of free product	NA	ft.
4)	Depth to well bottom from measuring point	36.18	ft.
5)	Height of water column (h)	29.72	ft.

Well Purging and Sample Collection

1) Purge Method: DEDICATED WELL WIZARD
2) Sample Method: DEDICATED WELL WIZARD
3) Flow Rate: 0.23 gal/min
4) Volume of water in well
   - [ ] 1" well . . . . (v = 0.041 x h)
   - [X] 2" well . . . . (v = 0.163 x h)
   - [ ] 4" well . . . . (v = 0.651 x h)
   - [ ] 6" well . . . . (v = 1.5 x h)

   4.84 gal.
5) Volume of water removed prior to sampling: 4 gal.
6) Was well purged DRY? YES [ ] NO [X]

Field Analysis

1) Turbidity	62	NTU
2) Temperature	18.51	°C
3) Specific Conductance	0.029	ms/cm^3
4) pH	4.58	
5) Dissolved Oxygen	8.88	mg/L
6) ORP	355.3	mV

7) Physical Apperance and Odor: No odor / Tan white cloudy
8) Other:

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Client: Olin/Syngenta
Project Number: 124792

GROUNDWATER SAMPLING FIELD DATA

Location: Aberdeen, North Carolina
Source/Well: PZ-3
Locked: Yes [X] No [ ]
PVC [X] Steel [ ] Stainless Steel [ ]
Measuring point description: TOC

Purge Date: 10/13/2011
Purge Time: 11:05 to 11:20
Sample Date: 10/13/2011
Sample Time: 11:23
Sampled By: PFP

Water Level and Well Data

1)	Depth to free product from measuring point	NA	ft.
2)	Depth to water from measuring point	37.21	ft.
3)	Thickness of free product	NA	ft.
4)	Depth to well bottom from measuring point	61.54	ft.
5)	Height of water column (h)	24.33	ft.

Well Purging and Sample Collection

1) Purge Method: DEDICATED WELL WIZARD
2) Sample Method: DEDICATED WELL WIZARD
3) Flow Rate: 0.22 gal/min
4) Volume of water in well
   - [ ] 1" well . . . . (v = 0.041 x h)
   - [X] 2" well . . . . (v = 0.163 x h)
   - [ ] 4" well . . . . (v = 0.651 x h)
   - [ ] 6" well . . . . (v = 1.5 x h)

   3.97 gal.
5) Volume of water removed prior to sampling: 3.3 gal.
6) Was well purged DRY? YES [ ] NO [X]

Field Analysis

1) Turbidity	4	NTU
2) Temperature	17	°C
3) Specific Conductance	0.018	ms/cm^3
4) pH	4.8	
5) Dissolved Oxygen	9.8	mg/L
6) ORP	354.7	mV

7) Physical Apperance and Odor: No odor / Clear
8) Other:

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Client: Olin/Syngenta
Project Number: 124792

GROUNDWATER SAMPLING FIELD DATA

Location: Aberdeen, North Carolina
Source/Well: PZ-5
Locked: Yes [X] No [ ]
PVC [X] Steel [ ] Stainless Steel [ ]
Measuring point description: TOC

Purge Date: 10/12/2011
Purge Time: 15:58 to 16:13
Sample Date: 10/12/2011
Sample Time: 16:15
Sampled By: PFP

Water Level and Well Data

1)	Depth to free product from measuring point	NA	ft.
2)	Depth to water from measuring point	7.52	ft.
3)	Thickness of free product	NA	ft.
4)	Depth to well bottom from measuring point	30.12	ft.
5)	Height of water column (h)	22.60	ft.

Well Purging and Sample Collection

1) Purge Method: DEDICATED WELL WIZARD
2) Sample Method: DEDICATED WELL WIZARD
3) Flow Rate: 0.3 gal/min
4) Volume of water in well
   - [ ] 1" well . . . . (v = 0.041 x h)
   - [X] 2" well . . . . (v = 0.163 x h)
   - [ ] 4" well . . . . (v = 0.651 x h)
   - [ ] 6" well . . . . (v = 1.5 x h)

   3.68 gal.
5) Volume of water removed prior to sampling: 5 gal.
6) Was well purged DRY? YES [ ] NO [X]

Field Analysis

1) Turbidity	59.5	NTU
2) Temperature	19.82	°C
3) Specific Conductance	0.06	ms/cm^3
4) pH	4.47	
5) Dissolved Oxygen	5.58	mg/L
6) ORP	294.7	mV

7) Physical Apperance and Odor: No odor / Red tan cloudy
8) Other:

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Tel: (912)354-7858

TestAmerica Job ID: 680-73320-1
Client Project/Site: Geigy Chemical Corp.- GW Annual OCT 2011

For:
Kleinfelder Inc
313 Gallimore Dairy Road
Greensboro, North Carolina 27409

Attn: Mr. Christopher W Hay

Lidya Gulizia

Authorized for release by:
10/31/2011 10:24:53 AM

Lidya Gulizia
Project Manager II
lidya.gulizia@testamericainc.com

Results relate only to the items tested and the sample(s) as received by the laboratory. The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

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Job ID: 680-73320-1

Laboratory: TestAmerica Savannah

Narrative

Job Narrative
680-73320-1

Receipt
The following sample(s) was received with headspace in 1 of the 2 sample vials: Trip Blank (680-73320-24) (B vial).

All other samples were received in good condition within temperature requirements.

GC/MS VOA
Method(s) 8260B: The trip blank associated with these samples contained a detection above the method detection limit (MDL) for the following analyte: trichloroethene.

No other analytical or quality issues were noted.

GC Semi VOA
Method(s) 8081B/8082A: Two surrogates are used for this analysis. The laboratory's SOP allows one of these surrogates to be outside acceptance criteria without performing re-extraction/re-analysis. The following sample(s) contained an allowable number of surrogate compounds outside limits: PZ-5 (680-73320-1). These results have been reported and qualified.

Method(s) 8081B/8082A: Due to the level of dilution required for the following sample(s), surrogate recoveries are not reported: MW-30D (680-73320-14), MW-6S (680-73320-21).

No other analytical or quality issues were noted.

Comments
No additional comments.

Sample Summary

Client: Kleinfelder Inc
Project/Site: Geigy Chemical Corp.- GW Annual OCT 2011

TestAmerica Job ID: 680-73320-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-73320-1	PZ-5	Water	10/12/11 16:15	10/13/11 12:20
680-73320-2	MW-32L	Water	10/12/11 14:33	10/13/11 12:20
680-73320-3	MW-27L	Water	10/12/11 12:18	10/13/11 12:20
680-73320-4	MW-36L	Water	10/12/11 11:42	10/13/11 12:20
680-73320-5	MW-22D	Water	10/12/11 10:37	10/13/11 12:20
680-73320-6	MW-31L	Water	10/12/11 16:11	10/13/11 12:20
680-73320-7	Dup-2	Water	10/12/11 16:12	10/13/11 12:20
680-73320-8	MW-22L	Water	10/12/11 10:17	10/13/11 12:20
680-73320-9	MW-25L	Water	10/12/11 11:23	10/13/11 12:20
680-73320-10	MW-23D	Water	10/12/11 10:26	10/13/11 12:20
680-73320-11	MW-37L	Water	10/12/11 12:00	10/13/11 12:20
680-73320-12	MW-16S	Water	10/11/11 10:28	10/13/11 12:20
680-73320-13	MW-18S	Water	10/11/11 11:14	10/13/11 12:20
680-73320-14	MW-30D	Water	10/11/11 12:01	10/13/11 12:20
680-73320-15	MW-10S	Water	10/11/11 12:42	10/13/11 12:20
680-73320-16	MW-5S	Water	10/11/11 13:00	10/13/11 12:20
680-73320-17	MW-17S	Water	10/11/11 10:58	10/13/11 12:20
680-73320-18	MW-18D	Water	10/11/11 13:07	10/13/11 12:20
680-73320-19	MW-26D	Water	10/12/11 15:24	10/13/11 12:20
680-73320-20	MW-4S	Water	10/11/11 14:09	10/13/11 12:20
680-73320-21	MW-6S	Water	10/11/11 14:10	10/13/11 12:20
680-73320-22	MW-17D	Water	10/11/11 15:29	10/13/11 12:20
680-73320-23	MW-16D	Water	10/11/11 16:02	10/13/11 12:20
680-73320-24	Trip Blank	Water	10/11/11 00:00	10/13/11 10:11

Method Summary

Client: Kleinfelder Inc
Project/Site: Geigy Chemical Corp.- GW Annual OCT 2011

TestAmerica Job ID: 680-73320-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL SAV
8081B/8082A	Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography	SW846	TAL SAV

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC Semi VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
X	Surrogate is outside control limits
D	Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution may be flagged with a D.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
E	Result exceeded calibration range.
*	LCS or LCSD exceeds the control limits
F	MS or MSD exceeds the control limits
p	The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.
4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Detection Summary

Client: Kleinfelder Inc
Project/Site: Geigy Chemical Corp.- GW Annual OCT 2011

TestAmerica Job ID: 680-73320-1

Client Sample ID: PZ-5 — Lab Sample ID: 680-73320-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
alpha-BHC	1.3	E	0.050	0.0057	ug/L	1		8081B/8082A	Total/NA
beta-BHC	0.28	*	0.050	0.0067	ug/L	1		8081B/8082A	Total/NA
delta-BHC	0.43		0.050	0.0048	ug/L	1		8081B/8082A	Total/NA
gamma-BHC (Lindane)	1.2	E	0.050	0.0059	ug/L	1		8081B/8082A	Total/NA
Endrin ketone	0.018	J	0.099	0.0083	ug/L	1		8081B/8082A	Total/NA
alpha-BHC - DL	0.93	D	0.099	0.011	ug/L	2		8081B/8082A	Total/NA
beta-BHC - DL	0.21	D	0.099	0.013	ug/L	2		8081B/8082A	Total/NA
delta-BHC - DL	0.30	D	0.099	0.0095	ug/L	2		8081B/8082A	Total/NA
gamma-BHC (Lindane) - DL	0.89	D	0.099	0.012	ug/L	2		8081B/8082A	Total/NA

Client Sample ID: MW-32L — Lab Sample ID: 680-73320-2

No Detections

Client Sample ID: MW-27L — Lab Sample ID: 680-73320-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
alpha-BHC	1.2	E	0.050	0.0057	ug/L	1		8081B/8082A	Total/NA
beta-BHC	2.0	E	0.050	0.0067	ug/L	1		8081B/8082A	Total/NA
delta-BHC	2.7	E	0.050	0.0048	ug/L	1		8081B/8082A	Total/NA
gamma-BHC (Lindane)	0.22		0.050	0.0059	ug/L	1		8081B/8082A	Total/NA
Dieldrin	0.11		0.10	0.0091	ug/L	1		8081B/8082A	Total/NA
4,4'-DDE	0.024	J p	0.10	0.0077	ug/L	1		8081B/8082A	Total/NA
Endrin ketone	0.22		0.10	0.0084	ug/L	1		8081B/8082A	Total/NA
alpha-BHC - DL	1.0	D	0.20	0.023	ug/L	4		8081B/8082A	Total/NA
beta-BHC - DL	2.2	D	0.20	0.027	ug/L	4		8081B/8082A	Total/NA
delta-BHC - DL	2.7	D	0.20	0.019	ug/L	4		8081B/8082A	Total/NA
gamma-BHC (Lindane) - DL	0.20	D	0.20	0.024	ug/L	4		8081B/8082A	Total/NA
Dieldrin - DL	0.069	J D	0.40	0.037	ug/L	4		8081B/8082A	Total/NA
Endrin ketone - DL	0.18	J D	0.40	0.034	ug/L	4		8081B/8082A	Total/NA

Client Sample ID: MW-36L — Lab Sample ID: 680-73320-4

No Detections

Client Sample ID: MW-22D — Lab Sample ID: 680-73320-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
alpha-BHC	0.032	J	0.053	0.0060	ug/L	1		8081B/8082A	Total/NA
beta-BHC	0.14	p	0.053	0.0071	ug/L	1		8081B/8082A	Total/NA
delta-BHC	0.11		0.053	0.0051	ug/L	1		8081B/8082A	Total/NA
gamma-BHC (Lindane)	0.018	J p	0.053	0.0063	ug/L	1		8081B/8082A	Total/NA

Client Sample ID: MW-31L — Lab Sample ID: 680-73320-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
alpha-BHC	0.59		0.054	0.0061	ug/L	1		8081B/8082A	Total/NA
beta-BHC	0.65		0.054	0.0072	ug/L	1		8081B/8082A	Total/NA
delta-BHC	0.69		0.054	0.0051	ug/L	1		8081B/8082A	Total/NA
gamma-BHC (Lindane)	0.16		0.054	0.0063	ug/L	1		8081B/8082A	Total/NA
Endrin ketone	0.021	J p	0.11	0.0090	ug/L	1		8081B/8082A	Total/NA

Client Sample ID: Dup-2 — Lab Sample ID: 680-73320-7

Client Sample ID: Dup-2 (Continued) — Lab Sample ID: 680-73320-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
alpha-BHC	0.59		0.056	0.0064	ug/L	1		8081B/8082A	Total/NA
beta-BHC	0.68		0.056	0.0075	ug/L	1		8081B/8082A	Total/NA
delta-BHC	0.69		0.056	0.0054	ug/L	1		8081B/8082A	Total/NA
gamma-BHC (Lindane)	0.15		0.056	0.0066	ug/L	1		8081B/8082A	Total/NA

Client Sample ID: MW-22L — Lab Sample ID: 680-73320-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
alpha-BHC	0.27		0.049	0.0055	ug/L	1		8081B/8082A	Total/NA
beta-BHC	0.52	p	0.049	0.0065	ug/L	1		8081B/8082A	Total/NA
delta-BHC	0.51		0.049	0.0047	ug/L	1		8081B/8082A	Total/NA
gamma-BHC (Lindane)	0.24		0.049	0.0057	ug/L	1		8081B/8082A	Total/NA
Dieldrin	0.059	J	0.097	0.0089	ug/L	1		8081B/8082A	Total/NA

Client Sample ID: MW-25L — Lab Sample ID: 680-73320-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
alpha-BHC	1.0	E	0.050	0.0057	ug/L	1		8081B/8082A	Total/NA
beta-BHC	0.54	p	0.050	0.0067	ug/L	1		8081B/8082A	Total/NA
delta-BHC	1.2	E	0.050	0.0048	ug/L	1		8081B/8082A	Total/NA
gamma-BHC (Lindane)	0.15		0.050	0.0059	ug/L	1		8081B/8082A	Total/NA
alpha-BHC - DL	0.87	D	0.099	0.011	ug/L	2		8081B/8082A	Total/NA
beta-BHC - DL	0.52	D	0.099	0.013	ug/L	2		8081B/8082A	Total/NA
delta-BHC - DL	1.1	D	0.099	0.0095	ug/L	2		8081B/8082A	Total/NA
gamma-BHC (Lindane) - DL	0.13	D	0.099	0.012	ug/L	2		8081B/8082A	Total/NA

Client Sample ID: MW-23D — Lab Sample ID: 680-73320-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
alpha-BHC	0.033	J	0.049	0.0056	ug/L	1		8081B/8082A	Total/NA
beta-BHC	0.028	J p	0.049	0.0066	ug/L	1		8081B/8082A	Total/NA
gamma-BHC (Lindane)	0.020	J p	0.049	0.0058	ug/L	1		8081B/8082A	Total/NA

Client Sample ID: MW-37L — Lab Sample ID: 680-73320-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
alpha-BHC	0.92	E	0.050	0.0057	ug/L	1		8081B/8082A	Total/NA
beta-BHC	0.59		0.050	0.0067	ug/L	1		8081B/8082A	Total/NA
delta-BHC	1.2	E	0.050	0.0048	ug/L	1		8081B/8082A	Total/NA
gamma-BHC (Lindane)	0.23		0.050	0.0059	ug/L	1		8081B/8082A	Total/NA
Endrin ketone	0.018	J p	0.10	0.0084	ug/L	1		8081B/8082A	Total/NA
alpha-BHC - DL	0.93	D	0.10	0.011	ug/L	2		8081B/8082A	Total/NA
beta-BHC - DL	0.92	D	0.10	0.013	ug/L	2		8081B/8082A	Total/NA
delta-BHC - DL	1.4	D	0.10	0.0096	ug/L	2		8081B/8082A	Total/NA
gamma-BHC (Lindane) - DL	0.35	D	0.10	0.012	ug/L	2		8081B/8082A	Total/NA
Endrin ketone - DL	0.035	J D	0.20	0.017	ug/L	2		8081B/8082A	Total/NA

Client Sample ID: MW-16S — Lab Sample ID: 680-73320-12

No Detections

Client Sample ID: MW-18S — Lab Sample ID: 680-73320-13

No Detections

Detection Summary

Client: Kleinfelder Inc
Project/Site: Geigy Chemical Corp.- GW Annual OCT 2011

TestAmerica Job ID: 680-73320-1

Client Sample ID: MW-30D — Lab Sample ID: 680-73320-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Trichloroethene	2.9		1.0	0.13	ug/L	1		8260B	Total/NA
alpha-BHC	0.10		0.048	0.0055	ug/L	1		8081B/8082A	Total/NA
beta-BHC	3.0	E	0.048	0.0064	ug/L	1		8081B/8082A	Total/NA
delta-BHC	0.44		0.048	0.0046	ug/L	1		8081B/8082A	Total/NA
gamma-BHC (Lindane)	0.087		0.048	0.0056	ug/L	1		8081B/8082A	Total/NA
Dieldrin	0.29		0.096	0.0087	ug/L	1		8081B/8082A	Total/NA
Endrin ketone	0.43		0.096	0.0080	ug/L	1		8081B/8082A	Total/NA
Toxaphene	4.3	J p	4.8	0.48	ug/L	1		8081B/8082A	Total/NA
alpha-BHC - DL	0.11	J D	0.48	0.055	ug/L	10		8081B/8082A	Total/NA
beta-BHC - DL	3.3	D	0.48	0.064	ug/L	10		8081B/8082A	Total/NA
delta-BHC - DL	0.41	J D	0.48	0.046	ug/L	10		8081B/8082A	Total/NA
gamma-BHC (Lindane) - DL	0.091	J D	0.48	0.056	ug/L	10		8081B/8082A	Total/NA
Dieldrin - DL	0.31	J D	0.96	0.087	ug/L	10		8081B/8082A	Total/NA
Endrin ketone - DL	0.48	J D	0.96	0.080	ug/L	10		8081B/8082A	Total/NA

Client Sample ID: MW-10S — Lab Sample ID: 680-73320-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
alpha-BHC	0.013	J	0.051	0.0058	ug/L	1		8081B/8082A	Total/NA
beta-BHC	1.5	E	0.051	0.0068	ug/L	1		8081B/8082A	Total/NA
delta-BHC	0.047	J	0.051	0.0049	ug/L	1		8081B/8082A	Total/NA
gamma-BHC (Lindane)	0.0098	J p	0.051	0.0060	ug/L	1		8081B/8082A	Total/NA
Dieldrin	0.17		0.10	0.0092	ug/L	1		8081B/8082A	Total/NA
Endrin ketone	0.28		0.10	0.0085	ug/L	1		8081B/8082A	Total/NA
Toxaphene	1.6	J p	5.1	0.51	ug/L	1		8081B/8082A	Total/NA
beta-BHC - DL	1.6	D	0.20	0.027	ug/L	4		8081B/8082A	Total/NA
Dieldrin - DL	0.18	J D	0.41	0.037	ug/L	4		8081B/8082A	Total/NA
Endrin ketone - DL	0.27	J D	0.41	0.034	ug/L	4		8081B/8082A	Total/NA

Client Sample ID: MW-5S — Lab Sample ID: 680-73320-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
beta-BHC	0.94	E	0.053	0.0071	ug/L	1		8081B/8082A	Total/NA
delta-BHC	0.10		0.053	0.0051	ug/L	1		8081B/8082A	Total/NA
Dieldrin	0.13		0.11	0.0097	ug/L	1		8081B/8082A	Total/NA
Endrin ketone	0.10	J	0.11	0.0089	ug/L	1		8081B/8082A	Total/NA
Toxaphene	1.7	J	5.3	0.53	ug/L	1		8081B/8082A	Total/NA
beta-BHC - DL	0.93	D	0.11	0.014	ug/L	2		8081B/8082A	Total/NA
delta-BHC - DL	0.10	J D	0.11	0.010	ug/L	2		8081B/8082A	Total/NA
Dieldrin - DL	0.12	J D	0.21	0.019	ug/L	2		8081B/8082A	Total/NA
Endrin ketone - DL	0.094	J D	0.21	0.018	ug/L	2		8081B/8082A	Total/NA

Client Sample ID: MW-17S — Lab Sample ID: 680-73320-17

No Detections

Client Sample ID: MW-18D — Lab Sample ID: 680-73320-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Trichloroethene	24		1.0	0.13	ug/L	1		8260B	Total/NA
alpha-BHC	0.28		0.048	0.0055	ug/L	1		8081B/8082A	Total/NA
beta-BHC	1.1	E	0.048	0.0064	ug/L	1		8081B/8082A	Total/NA
delta-BHC	0.24		0.048	0.0046	ug/L	1		8081B/8082A	Total/NA
gamma-BHC (Lindane)	0.24		0.048	0.0057	ug/L	1		8081B/8082A	Total/NA

Client Sample ID: MW-18D (Continued)

Lab Sample ID: 680-73320-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Dieldrin	0.090	J	0.096	0.0088	ug/L	1		8081B/8082A	Total/NA
Endrin ketone	0.17		0.096	0.0081	ug/L	1		8081B/8082A	Total/NA
Toxaphene	1.2	J p	4.8	0.48	ug/L	1		8081B/8082A	Total/NA
alpha-BHC - DL	0.25	D	0.096	0.011	ug/L	2		8081B/8082A	Total/NA
beta-BHC - DL	1.1	D	0.096	0.013	ug/L	2		8081B/8082A	Total/NA
delta-BHC - DL	0.22	D	0.096	0.0092	ug/L	2		8081B/8082A	Total/NA
gamma-BHC (Lindane) - DL	0.23	D	0.096	0.011	ug/L	2		8081B/8082A	Total/NA
Dieldrin - DL	0.086	J D	0.19	0.018	ug/L	2		8081B/8082A	Total/NA
Endrin ketone - DL	0.14	J D	0.19	0.016	ug/L	2		8081B/8082A	Total/NA

Client Sample ID: MW-26D

Lab Sample ID: 680-73320-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
alpha-BHC	0.014	J	0.051	0.0058	ug/L	1		8081B/8082A	Total/NA
beta-BHC	0.013	J p	0.051	0.0068	ug/L	1		8081B/8082A	Total/NA
gamma-BHC (Lindane)	0.029	J	0.051	0.0060	ug/L	1		8081B/8082A	Total/NA

Client Sample ID: MW-4S

Lab Sample ID: 680-73320-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
alpha-BHC	0.013	J	0.050	0.0057	ug/L	1		8081B/8082A	Total/NA
beta-BHC	1.1	E	0.050	0.0067	ug/L	1		8081B/8082A	Total/NA
delta-BHC	0.19		0.050	0.0048	ug/L	1		8081B/8082A	Total/NA
gamma-BHC (Lindane)	0.018	J p	0.050	0.0059	ug/L	1		8081B/8082A	Total/NA
Dieldrin	0.13		0.099	0.0090	ug/L	1		8081B/8082A	Total/NA
4,4'-DDE	0.067	J p	0.099	0.0077	ug/L	1		8081B/8082A	Total/NA
Endrin ketone	0.086	J	0.099	0.0084	ug/L	1		8081B/8082A	Total/NA
beta-BHC - DL	1.1	D	0.099	0.013	ug/L	2		8081B/8082A	Total/NA
delta-BHC - DL	0.21	D	0.099	0.0095	ug/L	2		8081B/8082A	Total/NA
gamma-BHC (Lindane) - DL	0.017	J p D	0.099	0.012	ug/L	2		8081B/8082A	Total/NA
Dieldrin - DL	0.14	J D	0.20	0.018	ug/L	2		8081B/8082A	Total/NA
Endrin ketone - DL	0.097	J D	0.20	0.017	ug/L	2		8081B/8082A	Total/NA

Client Sample ID: MW-6S

Lab Sample ID: 680-73320-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
alpha-BHC	0.098		0.049	0.0056	ug/L	1		8081B/8082A	Total/NA
beta-BHC	5.6	E	0.049	0.0066	ug/L	1		8081B/8082A	Total/NA
delta-BHC	1.3	E	0.049	0.0047	ug/L	1		8081B/8082A	Total/NA
gamma-BHC (Lindane)	0.054	p	0.049	0.0058	ug/L	1		8081B/8082A	Total/NA
Dieldrin	0.33		0.099	0.0090	ug/L	1		8081B/8082A	Total/NA
Endrin ketone	0.32		0.099	0.0083	ug/L	1		8081B/8082A	Total/NA
Toxaphene	6.9		4.9	0.49	ug/L	1		8081B/8082A	Total/NA
alpha-BHC - DL	0.10	J D	0.49	0.056	ug/L	10		8081B/8082A	Total/NA
beta-BHC - DL	5.9	D	0.49	0.066	ug/L	10		8081B/8082A	Total/NA
delta-BHC - DL	1.1	D	0.49	0.047	ug/L	10		8081B/8082A	Total/NA
Dieldrin - DL	0.21	J p D	0.99	0.090	ug/L	10		8081B/8082A	Total/NA
Endrin ketone - DL	0.26	J D	0.99	0.083	ug/L	10		8081B/8082A	Total/NA

Client Sample ID: MW-17D

Lab Sample ID: 680-73320-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Trichloroethene	190		1.0	0.13	ug/L	1		8260B	Total/NA

Detection Summary

Client: Kleinfelder Inc
Project/Site: Geigy Chemical Corp.- GW Annual OCT 2011

TestAmerica Job ID: 680-73320-1

Client Sample ID: MW-16D

Lab Sample ID: 680-73320-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Trichloroethene	99		1.0	0.13	ug/L	1		8260B	Total/NA

Client Sample ID: Trip Blank

Lab Sample ID: 680-73320-24

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Trichloroethene	0.14	J	1.0	0.13	ug/L	1		8260B	Total/NA

Client Sample Results

Client: Kleinfelder Inc
Project/Site: Geigy Chemical Corp.- GW Annual OCT 2011

TestAmerica Job ID: 680-73320-1

Client Sample ID: PZ-5
Date Collected: 10/12/11 16:15
Date Received: 10/13/11 12:20

Lab Sample ID: 680-73320-1
Matrix: Water

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.050	U	0.050	0.0070	ug/L		10/19/11 14:58	10/25/11 17:26	1
alpha-BHC	1.3	E	0.050	0.0057	ug/L		10/19/11 14:58	10/25/11 17:26	1
beta-BHC	0.28	*	0.050	0.0067	ug/L		10/19/11 14:58	10/25/11 17:26	1
delta-BHC	0.43		0.050	0.0048	ug/L		10/19/11 14:58	10/25/11 17:26	1
gamma-BHC (Lindane)	1.2	E	0.050	0.0059	ug/L		10/19/11 14:58	10/25/11 17:26	1
alpha-Chlordane	0.050	U	0.050	0.0060	ug/L		10/19/11 14:58	10/25/11 17:26	1
gamma-Chlordane	0.050	U	0.050	0.0051	ug/L		10/19/11 14:58	10/25/11 17:26	1
Dieldrin	0.099	U	0.099	0.0090	ug/L		10/19/11 14:58	10/25/11 17:26	1
4,4'-DDD	0.099	U	0.099	0.0065	ug/L		10/19/11 14:58	10/25/11 17:26	1
4,4'-DDE	0.099	U	0.099	0.0076	ug/L		10/19/11 14:58	10/25/11 17:26	1
4,4'-DDT	0.099	U	0.099	0.0096	ug/L		10/19/11 14:58	10/25/11 17:26	1
Endosulfan I	0.050	U	0.050	0.0042	ug/L		10/19/11 14:58	10/25/11 17:26	1
Endosulfan II	0.099	U	0.099	0.0097	ug/L		10/19/11 14:58	10/25/11 17:26	1
Endosulfan sulfate	0.099	U	0.099	0.0068	ug/L		10/19/11 14:58	10/25/11 17:26	1
Endrin	0.099	U	0.099	0.0096	ug/L		10/19/11 14:58	10/25/11 17:26	1
Endrin aldehyde	0.099	U	0.099	0.016	ug/L		10/19/11 14:58	10/25/11 17:26	1
Endrin ketone	0.018	J	0.099	0.0083	ug/L		10/19/11 14:58	10/25/11 17:26	1
Heptachlor	0.050	U	0.050	0.0070	ug/L		10/19/11 14:58	10/25/11 17:26	1
Heptachlor epoxide	0.050	U	0.050	0.0060	ug/L		10/19/11 14:58	10/25/11 17:26	1
Methoxychlor	0.099	U	0.099	0.013	ug/L		10/19/11 14:58	10/25/11 17:26	1
Toxaphene	5.0	U	5.0	0.50	ug/L		10/19/11 14:58	10/25/11 17:26	1

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*44*		*40 - 130*	*10/19/11 14:58*	*10/25/11 17:26*	*1*
DCB Decachlorobiphenyl	*44*		*40 - 130*	*10/19/11 14:58*	*10/25/11 17:26*	*1*
Tetrachloro-m-xylene	*44*		*36 - 130*	*10/19/11 14:58*	*10/25/11 17:26*	*1*
Tetrachloro-m-xylene	*49*		*36 - 130*	*10/19/11 14:58*	*10/25/11 17:26*	*1*

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.099	U	0.099	0.014	ug/L		10/19/11 14:58	10/25/11 16:55	2
alpha-BHC	0.93	D	0.099	0.011	ug/L		10/19/11 14:58	10/25/11 16:55	2
beta-BHC	0.21	D	0.099	0.013	ug/L		10/19/11 14:58	10/25/11 16:55	2
delta-BHC	0.30	D	0.099	0.0095	ug/L		10/19/11 14:58	10/25/11 16:55	2
gamma-BHC (Lindane)	0.89	D	0.099	0.012	ug/L		10/19/11 14:58	10/25/11 16:55	2
alpha-Chlordane	0.099	U	0.099	0.012	ug/L		10/19/11 14:58	10/25/11 16:55	2
gamma-Chlordane	0.099	U	0.099	0.010	ug/L		10/19/11 14:58	10/25/11 16:55	2
Dieldrin	0.20	U	0.20	0.018	ug/L		10/19/11 14:58	10/25/11 16:55	2
4,4'-DDD	0.20	U	0.20	0.013	ug/L		10/19/11 14:58	10/25/11 16:55	2
4,4'-DDE	0.20	U	0.20	0.015	ug/L		10/19/11 14:58	10/25/11 16:55	2
4,4'-DDT	0.20	U	0.20	0.019	ug/L		10/19/11 14:58	10/25/11 16:55	2
Endosulfan I	0.099	U	0.099	0.0083	ug/L		10/19/11 14:58	10/25/11 16:55	2
Endosulfan II	0.20	U	0.20	0.019	ug/L		10/19/11 14:58	10/25/11 16:55	2
Endosulfan sulfate	0.20	U	0.20	0.014	ug/L		10/19/11 14:58	10/25/11 16:55	2
Endrin	0.20	U	0.20	0.019	ug/L		10/19/11 14:58	10/25/11 16:55	2
Endrin aldehyde	0.20	U	0.20	0.032	ug/L		10/19/11 14:58	10/25/11 16:55	2
Endrin ketone	0.20	U	0.20	0.017	ug/L		10/19/11 14:58	10/25/11 16:55	2
Heptachlor	0.099	U	0.099	0.014	ug/L		10/19/11 14:58	10/25/11 16:55	2
Heptachlor epoxide	0.099	U	0.099	0.012	ug/L		10/19/11 14:58	10/25/11 16:55	2
Methoxychlor	0.20	U	0.20	0.026	ug/L		10/19/11 14:58	10/25/11 16:55	2

Client Sample Results

Client: Kleinfelder Inc
Project/Site: Geigy Chemical Corp.- GW Annual OCT 2011

TestAmerica Job ID: 680-73320-1

Client Sample ID: PZ-5
Date Collected: 10/12/11 16:15
Date Received: 10/13/11 12:20

Lab Sample ID: 680-73320-1
Matrix: Water

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography - DL (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toxaphene	9.9	U	9.9	0.99	ug/L		10/19/11 14:58	10/25/11 16:55	2

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	36	X	40 - 130	10/19/11 14:58	10/25/11 16:55	2
DCB Decachlorobiphenyl	35	X	40 - 130	10/19/11 14:58	10/25/11 16:55	2
Tetrachloro-m-xylene	33	X	36 - 130	10/19/11 14:58	10/25/11 16:55	2
Tetrachloro-m-xylene	36		36 - 130	10/19/11 14:58	10/25/11 16:55	2

Client Sample Results

Client: Kleinfelder Inc
Project/Site: Geigy Chemical Corp.- GW Annual OCT 2011

TestAmerica Job ID: 680-73320-1

Client Sample ID: MW-32L

Date Collected: 10/12/11 14:33
Date Received: 10/13/11 12:20

Lab Sample ID: 680-73320-2

Matrix: Water

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.052	U	0.052	0.0073	ug/L		10/19/11 14:58	10/22/11 18:41	1
alpha-BHC	0.052	U	0.052	0.0060	ug/L		10/19/11 14:58	10/22/11 18:41	1
beta-BHC	0.052	U	0.052	0.0070	ug/L		10/19/11 14:58	10/22/11 18:41	1
delta-BHC	0.052	U	0.052	0.0050	ug/L		10/19/11 14:58	10/22/11 18:41	1
gamma-BHC (Lindane)	0.052	U	0.052	0.0062	ug/L		10/19/11 14:58	10/22/11 18:41	1
alpha-Chlordane	0.052	U	0.052	0.0063	ug/L		10/19/11 14:58	10/22/11 18:41	1
gamma-Chlordane	0.052	U	0.052	0.0053	ug/L		10/19/11 14:58	10/22/11 18:41	1
Dieldrin	0.10	U	0.10	0.0095	ug/L		10/19/11 14:58	10/22/11 18:41	1
4,4'-DDD	0.10	U	0.10	0.0068	ug/L		10/19/11 14:58	10/22/11 18:41	1
4,4'-DDE	0.10	U	0.10	0.0081	ug/L		10/19/11 14:58	10/22/11 18:41	1
4,4'-DDT	0.10	U	0.10	0.010	ug/L		10/19/11 14:58	10/22/11 18:41	1
Endosulfan I	0.052	U	0.052	0.0044	ug/L		10/19/11 14:58	10/22/11 18:41	1
Endosulfan II	0.10	U	0.10	0.010	ug/L		10/19/11 14:58	10/22/11 18:41	1
Endosulfan sulfate	0.10	U	0.10	0.0071	ug/L		10/19/11 14:58	10/22/11 18:41	1
Endrin	0.10	U	0.10	0.010	ug/L		10/19/11 14:58	10/22/11 18:41	1
Endrin aldehyde	0.10	U	0.10	0.017	ug/L		10/19/11 14:58	10/22/11 18:41	1
Endrin ketone	0.10	U	0.10	0.0088	ug/L		10/19/11 14:58	10/22/11 18:41	1
Heptachlor	0.052	U	0.052	0.0073	ug/L		10/19/11 14:58	10/22/11 18:41	1
Heptachlor epoxide	0.052	U	0.052	0.0063	ug/L		10/19/11 14:58	10/22/11 18:41	1
Methoxychlor	0.10	U	0.10	0.014	ug/L		10/19/11 14:58	10/22/11 18:41	1
Toxaphene	5.2	U	5.2	0.52	ug/L		10/19/11 14:58	10/22/11 18:41	1

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*52*		*40 - 130*	*10/19/11 14:58*	*10/22/11 18:41*	*1*
DCB Decachlorobiphenyl	*53*		*40 - 130*	*10/19/11 14:58*	*10/22/11 18:41*	*1*
Tetrachloro-m-xylene	*62*		*36 - 130*	*10/19/11 14:58*	*10/22/11 18:41*	*1*
Tetrachloro-m-xylene	*61*		*36 - 130*	*10/19/11 14:58*	*10/22/11 18:41*	*1*

Client Sample Results

Client: Kleinfelder Inc
Project/Site: Geigy Chemical Corp.- GW Annual OCT 2011

TestAmerica Job ID: 680-73320-1

Client Sample ID: MW-27L

Date Collected: 10/12/11 12:18
Date Received: 10/13/11 12:20

Lab Sample ID: 680-73320-3
Matrix: Water

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.050	U	0.050	0.0070	ug/L		10/19/11 14:58	10/22/11 19:00	1
alpha-BHC	1.2	E	0.050	0.0057	ug/L		10/19/11 14:58	10/22/11 19:00	1
beta-BHC	2.0	E	0.050	0.0067	ug/L		10/19/11 14:58	10/22/11 19:00	1
delta-BHC	2.7	E	0.050	0.0048	ug/L		10/19/11 14:58	10/22/11 19:00	1
gamma-BHC (Lindane)	0.22		0.050	0.0059	ug/L		10/19/11 14:58	10/22/11 19:00	1
alpha-Chlordane	0.050	U	0.050	0.0060	ug/L		10/19/11 14:58	10/22/11 19:00	1
gamma-Chlordane	0.050	U	0.050	0.0051	ug/L		10/19/11 14:58	10/22/11 19:00	1
Dieldrin	0.11		0.10	0.0091	ug/L		10/19/11 14:58	10/22/11 19:00	1
4,4'-DDD	0.10	U	0.10	0.0065	ug/L		10/19/11 14:58	10/22/11 19:00	1
4,4'-DDE	0.024	J p	0.10	0.0077	ug/L		10/19/11 14:58	10/22/11 19:00	1
4,4'-DDT	0.10	U	0.10	0.0097	ug/L		10/19/11 14:58	10/22/11 19:00	1
Endosulfan I	0.050	U	0.050	0.0042	ug/L		10/19/11 14:58	10/22/11 19:00	1
Endosulfan II	0.10	U	0.10	0.0098	ug/L		10/19/11 14:58	10/22/11 19:00	1
Endosulfan sulfate	0.10	U	0.10	0.0088	ug/L		10/19/11 14:58	10/22/11 19:00	1
Endrin	0.10	U	0.10	0.0097	ug/L		10/19/11 14:58	10/22/11 19:00	1
Endrin aldehyde	0.10	U	0.10	0.016	ug/L		10/19/11 14:58	10/22/11 19:00	1
Endrin ketone	0.22		0.10	0.0084	ug/L		10/19/11 14:58	10/22/11 19:00	1
Heptachlor	0.050	U	0.050	0.0070	ug/L		10/19/11 14:58	10/22/11 19:00	1
Heptachlor epoxide	0.050	U	0.050	0.0060	ug/L		10/19/11 14:58	10/22/11 19:00	1
Methoxychlor	0.10	U	0.10	0.013	ug/L		10/19/11 14:58	10/22/11 19:00	1
Toxaphene	5.0	U	5.0	0.50	ug/L		10/19/11 14:58	10/22/11 19:00	1

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*78*		*40 - 130*	*10/19/11 14:58*	*10/22/11 19:00*	*1*
DCB Decachlorobiphenyl	*75*		*40 - 130*	*10/19/11 14:58*	*10/22/11 19:00*	*1*
Tetrachloro-m-xylene	*70*		*36 - 130*	*10/19/11 14:58*	*10/22/11 19:00*	*1*
Tetrachloro-m-xylene	*66*		*36 - 130*	*10/19/11 14:58*	*10/22/11 19:00*	*1*

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.20	U	0.20	0.028	ug/L		10/19/11 14:58	10/25/11 17:56	4
alpha-BHC	1.0	D	0.20	0.023	ug/L		10/19/11 14:58	10/25/11 17:56	4
beta-BHC	2.2	D	0.20	0.027	ug/L		10/19/11 14:58	10/25/11 17:56	4
delta-BHC	2.7	D	0.20	0.019	ug/L		10/19/11 14:58	10/25/11 17:56	4
gamma-BHC (Lindane)	0.20	D	0.20	0.024	ug/L		10/19/11 14:58	10/25/11 17:56	4
alpha-Chlordane	0.20	U	0.20	0.024	ug/L		10/19/11 14:58	10/25/11 17:56	4
gamma-Chlordane	0.20	U	0.20	0.020	ug/L		10/19/11 14:58	10/25/11 17:56	4
Dieldrin	0.069	J D	0.40	0.037	ug/L		10/19/11 14:58	10/25/11 17:56	4
4,4'-DDD	0.40	U	0.40	0.026	ug/L		10/19/11 14:58	10/25/11 17:56	4
4,4'-DDE	0.40	U	0.40	0.031	ug/L		10/19/11 14:58	10/25/11 17:56	4
4,4'-DDT	0.40	U	0.40	0.039	ug/L		10/19/11 14:58	10/25/11 17:56	4
Endosulfan I	0.20	U	0.20	0.017	ug/L		10/19/11 14:58	10/25/11 17:56	4
Endosulfan II	0.40	U	0.40	0.039	ug/L		10/19/11 14:58	10/25/11 17:56	4
Endosulfan sulfate	0.40	U	0.40	0.027	ug/L		10/19/11 14:58	10/25/11 17:56	4
Endrin	0.40	U	0.40	0.039	ug/L		10/19/11 14:58	10/25/11 17:56	4
Endrin aldehyde	0.40	U	0.40	0.064	ug/L		10/19/11 14:58	10/25/11 17:56	4
Endrin ketone	0.18	J D	0.40	0.034	ug/L		10/19/11 14:58	10/25/11 17:56	4
Heptachlor	0.20	U	0.20	0.028	ug/L		10/19/11 14:58	10/25/11 17:56	4
Heptachlor epoxide	0.20	U	0.20	0.024	ug/L		10/19/11 14:58	10/25/11 17:56	4
Methoxychlor	0.40	U	0.40	0.052	ug/L		10/19/11 14:58	10/25/11 17:56	4

Client Sample Results

Client: Kleinfelder Inc
Project/Site: Geigy Chemical Corp.- GW Annual OCT 2011

TestAmerica Job ID: 680-73320-1

Client Sample ID: MW-27L
Date Collected: 10/12/11 12:18
Date Received: 10/13/11 12:20

Lab Sample ID: 680-73320-3
Matrix: Water

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography - DL (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toxaphene	20	U	20	2.0	ug/L		10/19/11 14:58	10/25/11 17:56	4

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*76*		*40 - 130*	*10/19/11 14:58*	*10/25/11 17:56*	*4*
DCB Decachlorobiphenyl	*74*		*40 - 130*	*10/19/11 14:58*	*10/25/11 17:56*	*4*
Tetrachloro-m-xylene	*56*		*36 - 130*	*10/19/11 14:58*	*10/25/11 17:56*	*4*
Tetrachloro-m-xylene	*63*		*36 - 130*	*10/19/11 14:58*	*10/25/11 17:56*	*4*

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Client Sample Results

Client: Kleinfelder Inc
Project/Site: Geigy Chemical Corp.- GW Annual OCT 2011

TestAmerica Job ID: 680-73320-1

Client Sample ID: MW-36L
Date Collected: 10/12/11 11:42
Date Received: 10/13/11 12:20

Lab Sample ID: 680-73320-4
Matrix: Water

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.048	U	0.048	0.0068	ug/L		10/19/11 14:58	10/22/11 19:19	1
alpha-BHC	0.048	U	0.048	0.0055	ug/L		10/19/11 14:58	10/22/11 19:19	1
beta-BHC	0.048	U	0.048	0.0065	ug/L		10/19/11 14:58	10/22/11 19:19	1
delta-BHC	0.048	U	0.048	0.0046	ug/L		10/19/11 14:58	10/22/11 19:19	1
gamma-BHC (Lindane)	0.048	U	0.048	0.0057	ug/L		10/19/11 14:58	10/22/11 19:19	1
alpha-Chlordane	0.048	U	0.048	0.0058	ug/L		10/19/11 14:58	10/22/11 19:19	1
gamma-Chlordane	0.048	U	0.048	0.0049	ug/L		10/19/11 14:58	10/22/11 19:19	1
Dieldrin	0.097	U	0.097	0.0088	ug/L		10/19/11 14:58	10/22/11 19:19	1
4,4'-DDD	0.097	U	0.097	0.0063	ug/L		10/19/11 14:58	10/22/11 19:19	1
4,4'-DDE	0.097	U	0.097	0.0074	ug/L		10/19/11 14:58	10/22/11 19:19	1
4,4'-DDT	0.097	U	0.097	0.0094	ug/L		10/19/11 14:58	10/22/11 19:19	1
Endosulfan I	0.048	U	0.048	0.0041	ug/L		10/19/11 14:58	10/22/11 19:19	1
Endosulfan II	0.097	U	0.097	0.0095	ug/L		10/19/11 14:58	10/22/11 19:19	1
Endosulfan sulfate	0.097	U	0.097	0.0086	ug/L		10/19/11 14:58	10/22/11 19:19	1
Endrin	0.097	U	0.097	0.0094	ug/L		10/19/11 14:58	10/22/11 19:19	1
Endrin aldehyde	0.097	U	0.097	0.015	ug/L		10/19/11 14:58	10/22/11 19:19	1
Endrin ketone	0.097	U	0.097	0.0081	ug/L		10/19/11 14:58	10/22/11 19:19	1
Heptachlor	0.048	U	0.048	0.0068	ug/L		10/19/11 14:58	10/22/11 19:19	1
Heptachlor epoxide	0.048	U	0.048	0.0058	ug/L		10/19/11 14:58	10/22/11 19:19	1
Methoxychlor	0.097	U	0.097	0.013	ug/L		10/19/11 14:58	10/22/11 19:19	1
Toxaphene	4.8	U	4.8	0.48	ug/L		10/19/11 14:58	10/22/11 19:19	1

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*65*		*40 - 130*	*10/19/11 14:58*	*10/22/11 19:19*	*1*
DCB Decachlorobiphenyl	*67*		*40 - 130*	*10/19/11 14:58*	*10/22/11 19:19*	*1*
Tetrachloro-m-xylene	*64*		*36 - 130*	*10/19/11 14:58*	*10/22/11 19:19*	*1*
Tetrachloro-m-xylene	*62*		*36 - 130*	*10/19/11 14:58*	*10/22/11 19:19*	*1*

Client Sample Results

Client: Kleinfelder Inc
Project/Site: Geigy Chemical Corp.- GW Annual OCT 2011

TestAmerica Job ID: 680-73320-1

Client Sample ID: MW-22D

Date Collected: 10/12/11 10:37
Date Received: 10/13/11 12:20

Lab Sample ID: 680-73320-5
Matrix: Water

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.053	U	0.053	0.0074	ug/L		10/19/11 14:58	10/22/11 19:38	1
alpha-BHC	0.032	J	0.053	0.0060	ug/L		10/19/11 14:58	10/22/11 19:38	1
beta-BHC	0.14	p	0.053	0.0071	ug/L		10/19/11 14:58	10/22/11 19:38	1
delta-BHC	0.11		0.053	0.0051	ug/L		10/19/11 14:58	10/22/11 19:38	1
gamma-BHC (Lindane)	0.018	J p	0.053	0.0063	ug/L		10/19/11 14:58	10/22/11 19:38	1
alpha-Chlordane	0.053	U	0.053	0.0064	ug/L		10/19/11 14:58	10/22/11 19:38	1
gamma-Chlordane	0.053	U	0.053	0.0054	ug/L		10/19/11 14:58	10/22/11 19:38	1
Dieldrin	0.11	U	0.11	0.0096	ug/L		10/19/11 14:58	10/22/11 19:38	1
4,4'-DDD	0.11	U	0.11	0.0069	ug/L		10/19/11 14:58	10/22/11 19:38	1
4,4'-DDE	0.11	U	0.11	0.0082	ug/L		10/19/11 14:58	10/22/11 19:38	1
4,4'-DDT	0.11	U	0.11	0.010	ug/L		10/19/11 14:58	10/22/11 19:38	1
Endosulfan I	0.053	U	0.053	0.0045	ug/L		10/19/11 14:58	10/22/11 19:38	1
Endosulfan II	0.11	U	0.11	0.010	ug/L		10/19/11 14:58	10/22/11 19:38	1
Endosulfan sulfate	0.11	U	0.11	0.0072	ug/L		10/19/11 14:58	10/22/11 19:38	1
Endrin	0.11	U	0.11	0.010	ug/L		10/19/11 14:58	10/22/11 19:38	1
Endrin aldehyde	0.11	U	0.11	0.017	ug/L		10/19/11 14:58	10/22/11 19:38	1
Endrin ketone	0.11	U	0.11	0.0089	ug/L		10/19/11 14:58	10/22/11 19:38	1
Heptachlor	0.053	U	0.053	0.0074	ug/L		10/19/11 14:58	10/22/11 19:38	1
Heptachlor epoxide	0.053	U	0.053	0.0064	ug/L		10/19/11 14:58	10/22/11 19:38	1
Methoxychlor	0.11	U	0.11	0.014	ug/L		10/19/11 14:58	10/22/11 19:38	1
Toxaphene	5.3	U	5.3	0.53	ug/L		10/19/11 14:58	10/22/11 19:38	1

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*78*		*40 - 130*	*10/19/11 14:58*	*10/22/11 19:38*	*1*
DCB Decachlorobiphenyl	*74*		*40 - 130*	*10/19/11 14:58*	*10/22/11 19:38*	*1*
Tetrachloro-m-xylene	*60*		*36 - 130*	*10/19/11 14:58*	*10/22/11 19:38*	*1*
Tetrachloro-m-xylene	*60*		*36 - 130*	*10/19/11 14:58*	*10/22/11 19:38*	*1*

Client Sample Results

Client: Kleinfelder Inc
Project/Site: Geigy Chemical Corp.- GW Annual OCT 2011

TestAmerica Job ID: 680-73320-1

Client Sample ID: MW-31L

Date Collected: 10/12/11 16:11
Date Received: 10/13/11 12:20

Lab Sample ID: 680-73320-6

Matrix: Water

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.054	U	0.054	0.0075	ug/L		10/19/11 14:58	10/22/11 19:57	1
alpha-BHC	0.59		0.054	0.0061	ug/L		10/19/11 14:58	10/22/11 19:57	1
beta-BHC	0.65		0.054	0.0072	ug/L		10/19/11 14:58	10/22/11 19:57	1
delta-BHC	0.69		0.054	0.0051	ug/L		10/19/11 14:58	10/22/11 19:57	1
gamma-BHC (Lindane)	0.16		0.054	0.0063	ug/L		10/19/11 14:58	10/22/11 19:57	1
alpha-Chlordane	0.054	U	0.054	0.0064	ug/L		10/19/11 14:58	10/22/11 19:57	1
gamma-Chlordane	0.054	U	0.054	0.0055	ug/L		10/19/11 14:58	10/22/11 19:57	1
Dieldrin	0.11	U	0.11	0.0098	ug/L		10/19/11 14:58	10/22/11 19:57	1
4,4'-DDD	0.11	U	0.11	0.0070	ug/L		10/19/11 14:58	10/22/11 19:57	1
4,4'-DDE	0.11	U	0.11	0.0083	ug/L		10/19/11 14:58	10/22/11 19:57	1
4,4'-DDT	0.11	U	0.11	0.010	ug/L		10/19/11 14:58	10/22/11 19:57	1
Endosulfan I	0.054	U	0.054	0.0045	ug/L		10/19/11 14:58	10/22/11 19:57	1
Endosulfan II	0.11	U	0.11	0.011	ug/L		10/19/11 14:58	10/22/11 19:57	1
Endosulfan sulfate	0.11	U	0.11	0.0073	ug/L		10/19/11 14:58	10/22/11 19:57	1
Endrin	0.11	U	0.11	0.010	ug/L		10/19/11 14:58	10/22/11 19:57	1
Endrin aldehyde	0.11	U	0.11	0.017	ug/L		10/19/11 14:58	10/22/11 19:57	1
Endrin ketone	0.021	J p	0.11	0.0090	ug/L		10/19/11 14:58	10/22/11 19:57	1
Heptachlor	0.054	U	0.054	0.0075	ug/L		10/19/11 14:58	10/22/11 19:57	1
Heptachlor epoxide	0.054	U	0.054	0.0064	ug/L		10/19/11 14:58	10/22/11 19:57	1
Methoxychlor	0.11	U	0.11	0.014	ug/L		10/19/11 14:58	10/22/11 19:57	1
Toxaphene	5.4	U	5.4	0.54	ug/L		10/19/11 14:58	10/22/11 19:57	1

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*59*		*40 - 130*	*10/19/11 14:58*	*10/22/11 19:57*	*1*
DCB Decachlorobiphenyl	*64*		*40 - 130*	*10/19/11 14:58*	*10/22/11 19:57*	*1*
Tetrachloro-m-xylene	*69*		*36 - 130*	*10/19/11 14:58*	*10/22/11 19:57*	*1*
Tetrachloro-m-xylene	*66*		*36 - 130*	*10/19/11 14:58*	*10/22/11 19:57*	*1*

Client Sample Results

Client: Kleinfelder Inc
Project/Site: Geigy Chemical Corp.- GW Annual OCT 2011

TestAmerica Job ID: 680-73320-1

Client Sample ID: Dup-2

Date Collected: 10/12/11 16:12
Date Received: 10/13/11 12:20

Lab Sample ID: 680-73320-7
Matrix: Water

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.056	U	0.056	0.0078	ug/L		10/19/11 14:58	10/22/11 20:16	1
alpha-BHC	0.59		0.056	0.0064	ug/L		10/19/11 14:58	10/22/11 20:16	1
beta-BHC	0.68		0.056	0.0075	ug/L		10/19/11 14:58	10/22/11 20:16	1
delta-BHC	0.69		0.056	0.0054	ug/L		10/19/11 14:58	10/22/11 20:16	1
gamma-BHC (Lindane)	0.15		0.056	0.0066	ug/L		10/19/11 14:58	10/22/11 20:16	1
alpha-Chlordane	0.056	U	0.056	0.0067	ug/L		10/19/11 14:58	10/22/11 20:16	1
gamma-Chlordane	0.056	U	0.056	0.0057	ug/L		10/19/11 14:58	10/22/11 20:16	1
Dieldrin	0.11	U	0.11	0.010	ug/L		10/19/11 14:58	10/22/11 20:16	1
4,4'-DDD	0.11	U	0.11	0.0073	ug/L		10/19/11 14:58	10/22/11 20:16	1
4,4'-DDE	0.11	U	0.11	0.0086	ug/L		10/19/11 14:58	10/22/11 20:16	1
4,4'-DDT	0.11	U	0.11	0.011	ug/L		10/19/11 14:58	10/22/11 20:16	1
Endosulfan I	0.056	U	0.056	0.0047	ug/L		10/19/11 14:58	10/22/11 20:16	1
Endosulfan II	0.11	U	0.11	0.011	ug/L		10/19/11 14:58	10/22/11 20:16	1
Endosulfan sulfate	0.11	U	0.11	0.0076	ug/L		10/19/11 14:58	10/22/11 20:16	1
Endrin	0.11	U	0.11	0.011	ug/L		10/19/11 14:58	10/22/11 20:16	1
Endrin aldehyde	0.11	U	0.11	0.018	ug/L		10/19/11 14:58	10/22/11 20:16	1
Endrin ketone	0.11	U	0.11	0.0094	ug/L		10/19/11 14:58	10/22/11 20:16	1
Heptachlor	0.056	U	0.056	0.0078	ug/L		10/19/11 14:58	10/22/11 20:16	1
Heptachlor epoxide	0.056	U	0.056	0.0067	ug/L		10/19/11 14:58	10/22/11 20:16	1
Methoxychlor	0.11	U	0.11	0.015	ug/L		10/19/11 14:58	10/22/11 20:16	1
Toxaphene	5.6	U	5.6	0.56	ug/L		10/19/11 14:58	10/22/11 20:16	1

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*60*		*40 - 130*	*10/19/11 14:58*	*10/22/11 20:16*	*1*
DCB Decachlorobiphenyl	*61*		*40 - 130*	*10/19/11 14:58*	*10/22/11 20:16*	*1*
Tetrachloro-m-xylene	*65*		*36 - 130*	*10/19/11 14:58*	*10/22/11 20:16*	*1*
Tetrachloro-m-xylene	*60*		*36 - 130*	*10/19/11 14:58*	*10/22/11 20:16*	*1*

Client Sample Results

Client: Kleinfelder Inc
Project/Site: Geigy Chemical Corp.- GW Annual OCT 2011

TestAmerica Job ID: 680-73320-1

Client Sample ID: MW-22L
Date Collected: 10/12/11 10:17
Date Received: 10/13/11 12:20

Lab Sample ID: 680-73320-8
Matrix: Water

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.049	U	0.049	0.0068	ug/L		10/19/11 14:58	10/22/11 20:35	1
alpha-BHC	0.27		0.049	0.0055	ug/L		10/19/11 14:58	10/22/11 20:35	1
beta-BHC	0.52	p	0.049	0.0065	ug/L		10/19/11 14:58	10/22/11 20:35	1
delta-BHC	0.51		0.049	0.0047	ug/L		10/19/11 14:58	10/22/11 20:35	1
gamma-BHC (Lindane)	0.24		0.049	0.0057	ug/L		10/19/11 14:58	10/22/11 20:35	1
alpha-Chlordane	0.049	U	0.049	0.0058	ug/L		10/19/11 14:58	10/22/11 20:35	1
gamma-Chlordane	0.049	U	0.049	0.0050	ug/L		10/19/11 14:58	10/22/11 20:35	1
Dieldrin	0.069	J	0.097	0.0089	ug/L		10/19/11 14:58	10/22/11 20:35	1
4,4'-DDD	0.097	U	0.097	0.0063	ug/L		10/19/11 14:58	10/22/11 20:35	1
4,4'-DDE	0.097	U	0.097	0.0075	ug/L		10/19/11 14:58	10/22/11 20:35	1
4,4'-DDT	0.097	U	0.097	0.0094	ug/L		10/19/11 14:58	10/22/11 20:35	1
Endosulfan I	0.049	U	0.049	0.0041	ug/L		10/19/11 14:58	10/22/11 20:35	1
Endosulfan II	0.097	U	0.097	0.0095	ug/L		10/19/11 14:58	10/22/11 20:35	1
Endosulfan sulfate	0.097	U	0.097	0.0066	ug/L		10/19/11 14:58	10/22/11 20:35	1
Endrin	0.097	U	0.097	0.0094	ug/L		10/19/11 14:58	10/22/11 20:35	1
Endrin aldehyde	0.097	U	0.097	0.016	ug/L		10/19/11 14:58	10/22/11 20:35	1
Endrin ketone	0.097	U	0.097	0.0082	ug/L		10/19/11 14:58	10/22/11 20:35	1
Heptachlor	0.049	U	0.049	0.0068	ug/L		10/19/11 14:58	10/22/11 20:35	1
Heptachlor epoxide	0.049	U	0.049	0.0058	ug/L		10/19/11 14:58	10/22/11 20:35	1
Methoxychlor	0.097	U	0.097	0.013	ug/L		10/19/11 14:58	10/22/11 20:35	1
Toxaphene	4.9	U	4.9	0.49	ug/L		10/19/11 14:58	10/22/11 20:35	1

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*68*		*40 - 130*	*10/19/11 14:58*	*10/22/11 20:35*	*1*
DCB Decachlorobiphenyl	*75*		*40 - 130*	*10/19/11 14:58*	*10/22/11 20:35*	*1*
Tetrachloro-m-xylene	*62*		*36 - 130*	*10/19/11 14:58*	*10/22/11 20:35*	*1*
Tetrachloro-m-xylene	*57*		*36 - 130*	*10/19/11 14:58*	*10/22/11 20:35*	*1*

Client Sample Results

Client: Kleinfelder Inc
Project/Site: Geigy Chemical Corp.- GW Annual OCT 2011

TestAmerica Job ID: 680-73320-1

Client Sample ID: MW-25L
Date Collected: 10/12/11 11:23
Date Received: 10/13/11 12:20

Lab Sample ID: 680-73320-9
Matrix: Water

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Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.050	U	0.050	0.0070	ug/L		10/19/11 14:58	10/22/11 20:54	1
alpha-BHC	1.0	E	0.050	0.0057	ug/L		10/19/11 14:58	10/22/11 20:54	1
beta-BHC	0.54	p	0.050	0.0067	ug/L		10/19/11 14:58	10/22/11 20:54	1
delta-BHC	1.2	E	0.050	0.0048	ug/L		10/19/11 14:58	10/22/11 20:54	1
gamma-BHC (Lindane)	0.15		0.050	0.0059	ug/L		10/19/11 14:58	10/22/11 20:54	1
alpha-Chlordane	0.050	U	0.050	0.0060	ug/L		10/19/11 14:58	10/22/11 20:54	1
gamma-Chlordane	0.050	U	0.050	0.0051	ug/L		10/19/11 14:58	10/22/11 20:54	1
Dieldrin	0.099	U	0.099	0.0091	ug/L		10/19/11 14:58	10/22/11 20:54	1
4,4'-DDD	0.099	U	0.099	0.0065	ug/L		10/19/11 14:58	10/22/11 20:54	1
4,4'-DDE	0.099	U	0.099	0.0077	ug/L		10/19/11 14:58	10/22/11 20:54	1
4,4'-DDT	0.099	U	0.099	0.0096	ug/L		10/19/11 14:58	10/22/11 20:54	1
Endosulfan I	0.050	U	0.050	0.0042	ug/L		10/19/11 14:58	10/22/11 20:54	1
Endosulfan II	0.099	U	0.099	0.0097	ug/L		10/19/11 14:58	10/22/11 20:54	1
Endosulfan sulfate	0.099	U	0.099	0.0068	ug/L		10/19/11 14:58	10/22/11 20:54	1
Endrin	0.099	U	0.099	0.0096	ug/L		10/19/11 14:58	10/22/11 20:54	1
Endrin aldehyde	0.099	U	0.099	0.016	ug/L		10/19/11 14:58	10/22/11 20:54	1
Endrin ketone	0.099	U	0.099	0.0084	ug/L		10/19/11 14:58	10/22/11 20:54	1
Heptachlor	0.050	U	0.050	0.0070	ug/L		10/19/11 14:58	10/22/11 20:54	1
Heptachlor epoxide	0.050	U	0.050	0.0060	ug/L		10/19/11 14:58	10/22/11 20:54	1
Methoxychlor	0.099	U	0.099	0.013	ug/L		10/19/11 14:58	10/22/11 20:54	1
Toxaphene	5.0	U	5.0	0.50	ug/L		10/19/11 14:58	10/22/11 20:54	1

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*63*		*40 - 130*	*10/19/11 14:58*	*10/22/11 20:54*	*1*
DCB Decachlorobiphenyl	*71*		*40 - 130*	*10/19/11 14:58*	*10/22/11 20:54*	*1*
Tetrachloro-m-xylene	*75*		*36 - 130*	*10/19/11 14:58*	*10/22/11 20:54*	*1*
Tetrachloro-m-xylene	*76*		*36 - 130*	*10/19/11 14:58*	*10/22/11 20:54*	*1*

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.099	U	0.099	0.014	ug/L		10/19/11 14:58	10/25/11 18:26	2
alpha-BHC	0.87	D	0.099	0.011	ug/L		10/19/11 14:58	10/25/11 18:26	2
beta-BHC	0.52	D	0.099	0.013	ug/L		10/19/11 14:58	10/25/11 18:26	2
delta-BHC	1.1	D	0.099	0.0095	ug/L		10/19/11 14:58	10/25/11 18:26	2
gamma-BHC (Lindane)	0.13	D	0.099	0.012	ug/L		10/19/11 14:58	10/25/11 18:26	2
alpha-Chlordane	0.099	U	0.099	0.012	ug/L		10/19/11 14:58	10/25/11 18:26	2
gamma-Chlordane	0.099	U	0.099	0.010	ug/L		10/19/11 14:58	10/25/11 18:26	2
Dieldrin	0.20	U	0.20	0.018	ug/L		10/19/11 14:58	10/25/11 18:26	2
4,4'-DDD	0.20	U	0.20	0.013	ug/L		10/19/11 14:58	10/25/11 18:26	2
4,4'-DDE	0.20	U	0.20	0.015	ug/L		10/19/11 14:58	10/25/11 18:26	2
4,4'-DDT	0.20	U	0.20	0.019	ug/L		10/19/11 14:58	10/25/11 18:26	2
Endosulfan I	0.099	U	0.099	0.0084	ug/L		10/19/11 14:58	10/25/11 18:26	2
Endosulfan II	0.20	U	0.20	0.019	ug/L		10/19/11 14:58	10/25/11 18:26	2
Endosulfan sulfate	0.20	U	0.20	0.014	ug/L		10/19/11 14:58	10/25/11 18:26	2
Endrin	0.20	U	0.20	0.019	ug/L		10/19/11 14:58	10/25/11 18:26	2
Endrin aldehyde	0.20	U	0.20	0.032	ug/L		10/19/11 14:58	10/25/11 18:26	2
Endrin ketone	0.20	U	0.20	0.017	ug/L		10/19/11 14:58	10/25/11 18:26	2
Heptachlor	0.099	U	0.099	0.014	ug/L		10/19/11 14:58	10/25/11 18:26	2
Heptachlor epoxide	0.099	U	0.099	0.012	ug/L		10/19/11 14:58	10/25/11 18:26	2
Methoxychlor	0.20	U	0.20	0.026	ug/L		10/19/11 14:58	10/25/11 18:26	2

Client Sample Results

Client: Kleinfelder Inc
Project/Site: Geigy Chemical Corp.- GW Annual OCT 2011

TestAmerica Job ID: 680-73320-1

Client Sample ID: MW-25L
Date Collected: 10/12/11 11:23
Date Received: 10/13/11 12:20

Lab Sample ID: 680-73320-9
Matrix: Water

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography - DL (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toxaphene	9.9	U	9.9	0.99	ug/L		10/19/11 14:58	10/25/11 18:26	2

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*63*		*40 - 130*	*10/19/11 14:58*	*10/25/11 18:26*	*2*
DCB Decachlorobiphenyl	*62*		*40 - 130*	*10/19/11 14:58*	*10/25/11 18:26*	*2*
Tetrachloro-m-xylene	*65*		*36 - 130*	*10/19/11 14:58*	*10/25/11 18:26*	*2*
Tetrachloro-m-xylene	*66*		*36 - 130*	*10/19/11 14:58*	*10/25/11 18:26*	*2*

Client Sample Results

Client: Kleinfelder Inc
Project/Site: Geigy Chemical Corp.- GW Annual OCT 2011

TestAmerica Job ID: 680-73320-1

Client Sample ID: MW-23D
Date Collected: 10/12/11 10:26
Date Received: 10/13/11 12:20

Lab Sample ID: 680-73320-10
Matrix: Water

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.049	U	0.049	0.0069	ug/L		10/19/11 14:58	10/22/11 21:13	1
alpha-BHC	0.033	J	0.049	0.0056	ug/L		10/19/11 14:58	10/22/11 21:13	1
beta-BHC	0.028	J p	0.049	0.0066	ug/L		10/19/11 14:58	10/22/11 21:13	1
delta-BHC	0.049	U	0.049	0.0047	ug/L		10/19/11 14:58	10/22/11 21:13	1
gamma-BHC (Lindane)	0.020	J p	0.049	0.0058	ug/L		10/19/11 14:58	10/22/11 21:13	1
alpha-Chlordane	0.049	U	0.049	0.0059	ug/L		10/19/11 14:58	10/22/11 21:13	1
gamma-Chlordane	0.049	U	0.049	0.0050	ug/L		10/19/11 14:58	10/22/11 21:13	1
Dieldrin	0.098	U	0.098	0.0090	ug/L		10/19/11 14:58	10/22/11 21:13	1
4,4'-DDD	0.098	U	0.098	0.0064	ug/L		10/19/11 14:58	10/22/11 21:13	1
4,4'-DDE	0.098	U	0.098	0.0076	ug/L		10/19/11 14:58	10/22/11 21:13	1
4,4'-DDT	0.098	U	0.098	0.0096	ug/L		10/19/11 14:58	10/22/11 21:13	1
Endosulfan I	0.049	U	0.049	0.0041	ug/L		10/19/11 14:58	10/22/11 21:13	1
Endosulfan II	0.098	U	0.098	0.0096	ug/L		10/19/11 14:58	10/22/11 21:13	1
Endosulfan sulfate	0.098	U	0.098	0.0067	ug/L		10/19/11 14:58	10/22/11 21:13	1
Endrin	0.098	U	0.098	0.0096	ug/L		10/19/11 14:58	10/22/11 21:13	1
Endrin aldehyde	0.098	U	0.098	0.016	ug/L		10/19/11 14:58	10/22/11 21:13	1
Endrin ketone	0.098	U	0.098	0.0083	ug/L		10/19/11 14:58	10/22/11 21:13	1
Heptachlor	0.049	U	0.049	0.0069	ug/L		10/19/11 14:58	10/22/11 21:13	1
Heptachlor epoxide	0.049	U	0.049	0.0059	ug/L		10/19/11 14:58	10/22/11 21:13	1
Methoxychlor	0.098	U	0.098	0.013	ug/L		10/19/11 14:58	10/22/11 21:13	1
Toxaphene	4.9	U	4.9	0.49	ug/L		10/19/11 14:58	10/22/11 21:13	1

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*60*		*40 - 130*	*10/19/11 14:58*	*10/22/11 21:13*	*1*
DCB Decachlorobiphenyl	*63*		*40 - 130*	*10/19/11 14:58*	*10/22/11 21:13*	*1*
Tetrachloro-m-xylene	*60*		*36 - 130*	*10/19/11 14:58*	*10/22/11 21:13*	*1*
Tetrachloro-m-xylene	*56*		*36 - 130*	*10/19/11 14:58*	*10/22/11 21:13*	*1*

Client Sample Results

Client: Kleinfelder Inc
Project/Site: Geigy Chemical Corp.- GW Annual OCT 2011

TestAmerica Job ID: 680-73320-1

Client Sample ID: MW-37L
Date Collected: 10/12/11 12:00
Date Received: 10/13/11 12:20

Lab Sample ID: 680-73320-11
Matrix: Water

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.050	U	0.050	0.0070	ug/L		10/19/11 14:58	10/22/11 21:31	1
alpha-BHC	0.92	E	0.050	0.0057	ug/L		10/19/11 14:58	10/22/11 21:31	1
beta-BHC	0.59		0.050	0.0067	ug/L		10/19/11 14:58	10/22/11 21:31	1
delta-BHC	1.2	E	0.050	0.0048	ug/L		10/19/11 14:58	10/22/11 21:31	1
gamma-BHC (Lindane)	0.23		0.050	0.0059	ug/L		10/19/11 14:58	10/22/11 21:31	1
alpha-Chlordane	0.050	U	0.050	0.0060	ug/L		10/19/11 14:58	10/22/11 21:31	1
gamma-Chlordane	0.050	U	0.050	0.0051	ug/L		10/19/11 14:58	10/22/11 21:31	1
Dieldrin	0.10	U	0.10	0.0091	ug/L		10/19/11 14:58	10/22/11 21:31	1
4,4'-DDD	0.10	U	0.10	0.0065	ug/L		10/19/11 14:58	10/22/11 21:31	1
4,4'-DDE	0.10	U	0.10	0.0077	ug/L		10/19/11 14:58	10/22/11 21:31	1
4,4'-DDT	0.10	U	0.10	0.0097	ug/L		10/19/11 14:58	10/22/11 21:31	1
Endosulfan I	0.050	U	0.050	0.0042	ug/L		10/19/11 14:58	10/22/11 21:31	1
Endosulfan II	0.10	U	0.10	0.0098	ug/L		10/19/11 14:58	10/22/11 21:31	1
Endosulfan sulfate	0.10	U	0.10	0.0068	ug/L		10/19/11 14:58	10/22/11 21:31	1
Endrin	0.10	U	0.10	0.0097	ug/L		10/19/11 14:58	10/22/11 21:31	1
Endrin aldehyde	0.10	U	0.10	0.016	ug/L		10/19/11 14:58	10/22/11 21:31	1
Endrin ketone	0.018	J p	0.10	0.0084	ug/L		10/19/11 14:58	10/22/11 21:31	1
Heptachlor	0.050	U	0.050	0.0070	ug/L		10/19/11 14:58	10/22/11 21:31	1
Heptachlor epoxide	0.050	U	0.050	0.0060	ug/L		10/19/11 14:58	10/22/11 21:31	1
Methoxychlor	0.10	U	0.10	0.013	ug/L		10/19/11 14:58	10/22/11 21:31	1
Toxaphene	5.0	U	5.0	0.50	ug/L		10/19/11 14:58	10/22/11 21:31	1

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*59*		*40 - 130*	*10/19/11 14:58*	*10/22/11 21:31*	*1*
DCB Decachlorobiphenyl	*62*		*40 - 130*	*10/19/11 14:58*	*10/22/11 21:31*	*1*
Tetrachloro-m-xylene	*60*		*36 - 130*	*10/19/11 14:58*	*10/22/11 21:31*	*1*
Tetrachloro-m-xylene	*59*		*36 - 130*	*10/19/11 14:58*	*10/22/11 21:31*	*1*

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.10	U	0.10	0.014	ug/L		10/19/11 14:58	10/25/11 18:55	2
alpha-BHC	0.93	D	0.10	0.011	ug/L		10/19/11 14:58	10/25/11 18:55	2
beta-BHC	0.92	D	0.10	0.013	ug/L		10/19/11 14:58	10/25/11 18:55	2
delta-BHC	1.4	D	0.10	0.0096	ug/L		10/19/11 14:58	10/25/11 18:55	2
gamma-BHC (Lindane)	0.35	D	0.10	0.012	ug/L		10/19/11 14:58	10/25/11 18:55	2
alpha-Chlordane	0.10	U	0.10	0.012	ug/L		10/19/11 14:58	10/25/11 18:55	2
gamma-Chlordane	0.10	U	0.10	0.010	ug/L		10/19/11 14:58	10/25/11 18:55	2
Dieldrin	0.20	U	0.20	0.018	ug/L		10/19/11 14:58	10/25/11 18:55	2
4,4'-DDD	0.20	U	0.20	0.013	ug/L		10/19/11 14:58	10/25/11 18:55	2
4,4'-DDE	0.20	U	0.20	0.015	ug/L		10/19/11 14:58	10/25/11 18:55	2
4,4'-DDT	0.20	U	0.20	0.019	ug/L		10/19/11 14:58	10/25/11 18:55	2
Endosulfan I	0.10	U	0.10	0.0084	ug/L		10/19/11 14:58	10/25/11 18:55	2
Endosulfan II	0.20	U	0.20	0.020	ug/L		10/19/11 14:58	10/25/11 18:55	2
Endosulfan sulfate	0.20	U	0.20	0.014	ug/L		10/19/11 14:58	10/25/11 18:55	2
Endrin	0.20	U	0.20	0.019	ug/L		10/19/11 14:58	10/25/11 18:55	2
Endrin aldehyde	0.20	U	0.20	0.032	ug/L		10/19/11 14:58	10/25/11 18:55	2
Endrin ketone	0.035	J D	0.20	0.017	ug/L		10/19/11 14:58	10/25/11 18:55	2
Heptachlor	0.10	U	0.10	0.014	ug/L		10/19/11 14:58	10/25/11 18:55	2
Heptachlor epoxide	0.10	U	0.10	0.012	ug/L		10/19/11 14:58	10/25/11 18:55	2
Methoxychlor	0.20	U	0.20	0.026	ug/L		10/19/11 14:58	10/25/11 18:55	2

Client Sample Results

Client: Kleinfelder Inc
Project/Site: Geigy Chemical Corp.- GW Annual OCT 2011

TestAmerica Job ID: 680-73320-1

Client Sample ID: MW-37L
Date Collected: 10/12/11 12:00
Date Received: 10/13/11 12:20

Lab Sample ID: 680-73320-11
Matrix: Water

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography - DL (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toxaphene	10	U	10	1.0	ug/L		10/19/11 14:58	10/25/11 18:55	2

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*83*		*40 - 130*	*10/19/11 14:58*	*10/25/11 18:55*	*2*
DCB Decachlorobiphenyl	*53*		*40 - 130*	*10/19/11 14:58*	*10/25/11 18:55*	*2*
Tetrachloro-m-xylene	*104*		*36 - 130*	*10/19/11 14:58*	*10/25/11 18:55*	*2*
Tetrachloro-m-xylene	*60*		*36 - 130*	*10/19/11 14:58*	*10/25/11 18:55*	*2*

Client Sample Results

Client: Kleinfelder Inc
Project/Site: Geigy Chemical Corp.- GW Annual OCT 2011

TestAmerica Job ID: 680-73320-1

Client Sample ID: MW-16S

Date Collected: 10/11/11 10:28
Date Received: 10/13/11 12:20

Lab Sample ID: 680-73320-12
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	1.0	U	1.0	0.13	ug/L			10/21/11 00:16	1

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	104		70 - 130		10/21/11 00:16	1
4-Bromofluorobenzene	108		70 - 130		10/21/11 00:16	1
Dibromofluoromethane	97		70 - 130		10/21/11 00:16	1

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.050	U	0.050	0.0070	ug/L		10/18/11 15:38	10/21/11 16:17	1
alpha-BHC	0.050	U	0.050	0.0057	ug/L		10/18/11 15:38	10/21/11 16:17	1
beta-BHC	0.050	U	0.050	0.0067	ug/L		10/18/11 15:38	10/21/11 16:17	1
delta-BHC	0.050	U	0.050	0.0048	ug/L		10/18/11 15:38	10/21/11 16:17	1
gamma-BHC (Lindane)	0.050	U	0.050	0.0059	ug/L		10/18/11 15:38	10/21/11 16:17	1
alpha-Chlordane	0.050	U	0.050	0.0060	ug/L		10/18/11 15:38	10/21/11 16:17	1
gamma-Chlordane	0.050	U	0.050	0.0051	ug/L		10/18/11 15:38	10/21/11 16:17	1
Dieldrin	0.10	U	0.10	0.0091	ug/L		10/18/11 15:38	10/21/11 16:17	1
4,4'-DDD	0.10	U	0.10	0.0065	ug/L		10/18/11 15:38	10/21/11 16:17	1
4,4'-DDE	0.10	U	0.10	0.0077	ug/L		10/18/11 15:38	10/21/11 16:17	1
4,4'-DDT	0.10	U	0.10	0.0097	ug/L		10/18/11 15:38	10/21/11 16:17	1
Endosulfan I	0.050	U	0.050	0.0042	ug/L		10/18/11 15:38	10/21/11 16:17	1
Endosulfan II	0.10	U	0.10	0.0098	ug/L		10/18/11 15:38	10/21/11 16:17	1
Endosulfan sulfate	0.10	U	0.10	0.0068	ug/L		10/18/11 15:38	10/21/11 16:17	1
Endrin	0.10	U	0.10	0.0097	ug/L		10/18/11 15:38	10/21/11 16:17	1
Endrin aldehyde	0.10	U	0.10	0.016	ug/L		10/18/11 15:38	10/21/11 16:17	1
Endrin ketone	0.10	U	0.10	0.0084	ug/L		10/18/11 15:38	10/21/11 16:17	1
Heptachlor	0.050	U	0.050	0.0070	ug/L		10/18/11 15:38	10/21/11 16:17	1
Heptachlor epoxide	0.050	U	0.050	0.0060	ug/L		10/18/11 15:38	10/21/11 16:17	1
Methoxychlor	0.10	U	0.10	0.013	ug/L		10/18/11 15:38	10/21/11 16:17	1
Toxaphene	5.0	U	5.0	0.50	ug/L		10/18/11 15:38	10/21/11 16:17	1

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	65		40 - 130	10/18/11 15:38	10/21/11 16:17	1
DCB Decachlorobiphenyl	64		40 - 130	10/18/11 15:38	10/21/11 16:17	1
Tetrachloro-m-xylene	56		36 - 130	10/18/11 15:38	10/21/11 16:17	1
Tetrachloro-m-xylene	57		36 - 130	10/18/11 15:38	10/21/11 16:17	1

Client Sample Results

Client: Kleinfelder Inc
Project/Site: Geigy Chemical Corp.- GW Annual OCT 2011

TestAmerica Job ID: 680-73320-1

Client Sample ID: MW-18S

Date Collected: 10/11/11 11:14
Date Received: 10/13/11 12:20

Lab Sample ID: 680-73320-13
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	1.0	U	1.0	0.13	ug/L			10/21/11 00:39	1

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*102*		*70 - 130*		*10/21/11 00:39*	*1*
4-Bromofluorobenzene	*109*		*70 - 130*		*10/21/11 00:39*	*1*
Dibromofluoromethane	*95*		*70 - 130*		*10/21/11 00:39*	*1*

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.049	U	0.049	0.0069	ug/L		10/18/11 15:38	10/21/11 16:48	1
alpha-BHC	0.049	U	0.049	0.0056	ug/L		10/18/11 15:38	10/21/11 16:48	1
beta-BHC	0.049	U	0.049	0.0066	ug/L		10/18/11 15:38	10/21/11 16:48	1
delta-BHC	0.049	U	0.049	0.0047	ug/L		10/18/11 15:38	10/21/11 16:48	1
gamma-BHC (Lindane)	0.049	U	0.049	0.0058	ug/L		10/18/11 15:38	10/21/11 16:48	1
alpha-Chlordane	0.049	U	0.049	0.0059	ug/L		10/18/11 15:38	10/21/11 16:48	1
gamma-Chlordane	0.049	U	0.049	0.0050	ug/L		10/18/11 15:38	10/21/11 16:48	1
Dieldrin	0.098	U	0.098	0.0090	ug/L		10/18/11 15:38	10/21/11 16:48	1
4,4'-DDD	0.098	U	0.098	0.0064	ug/L		10/18/11 15:38	10/21/11 16:48	1
4,4'-DDE	0.098	U	0.098	0.0076	ug/L		10/18/11 15:38	10/21/11 16:48	1
4,4'-DDT	0.098	U	0.098	0.0095	ug/L		10/18/11 15:38	10/21/11 16:48	1
Endosulfan I	0.049	U	0.049	0.0041	ug/L		10/18/11 15:38	10/21/11 16:48	1
Endosulfan II	0.098	U	0.098	0.0096	ug/L		10/18/11 15:38	10/21/11 16:48	1
Endosulfan sulfate	0.098	U	0.098	0.0067	ug/L		10/18/11 15:38	10/21/11 16:48	1
Endrin	0.098	U	0.098	0.0095	ug/L		10/18/11 15:38	10/21/11 16:48	1
Endrin aldehyde	0.098	U	0.098	0.016	ug/L		10/18/11 15:38	10/21/11 16:48	1
Endrin ketone	0.098	U	0.098	0.0083	ug/L		10/18/11 15:38	10/21/11 16:48	1
Heptachlor	0.049	U	0.049	0.0069	ug/L		10/18/11 15:38	10/21/11 16:48	1
Heptachlor epoxide	0.049	U	0.049	0.0059	ug/L		10/18/11 15:38	10/21/11 16:48	1
Methoxychlor	0.098	U	0.098	0.013	ug/L		10/18/11 15:38	10/21/11 16:48	1
Toxaphene	4.9	U	4.9	0.49	ug/L		10/18/11 15:38	10/21/11 16:48	1

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*72*		*40 - 130*	*10/18/11 15:38*	*10/21/11 16:48*	*1*
DCB Decachlorobiphenyl	*72*		*40 - 130*	*10/18/11 15:38*	*10/21/11 16:48*	*1*
Tetrachloro-m-xylene	*57*		*36 - 130*	*10/18/11 15:38*	*10/21/11 16:48*	*1*
Tetrachloro-m-xylene	*60*		*36 - 130*	*10/18/11 15:38*	*10/21/11 16:48*	*1*

Client Sample Results

Client: Kleinfelder Inc
Project/Site: Geigy Chemical Corp.- GW Annual OCT 2011

TestAmerica Job ID: 680-73320-1

Client Sample ID: MW-30D

Date Collected: 10/11/11 12:01
Date Received: 10/13/11 12:20

Lab Sample ID: 680-73320-14

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	2.9		1.0	0.13	ug/L			10/21/11 01:02	1

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	102		70 - 130		10/21/11 01:02	1
4-Bromofluorobenzene	106		70 - 130		10/21/11 01:02	1
Dibromofluoromethane	95		70 - 130		10/21/11 01:02	1

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.048	U	0.048	0.0067	ug/L		10/18/11 15:38	10/21/11 17:19	1
alpha-BHC	0.10		0.048	0.0055	ug/L		10/18/11 15:38	10/21/11 17:19	1
beta-BHC	3.0	E	0.048	0.0064	ug/L		10/18/11 15:38	10/21/11 17:19	1
delta-BHC	0.44		0.048	0.0046	ug/L		10/18/11 15:38	10/21/11 17:19	1
gamma-BHC (Lindane)	0.067		0.048	0.0056	ug/L		10/18/11 15:38	10/21/11 17:19	1
alpha-Chlordane	0.048	U	0.048	0.0057	ug/L		10/18/11 15:38	10/21/11 17:19	1
gamma-Chlordane	0.048	U	0.048	0.0049	ug/L		10/18/11 15:38	10/21/11 17:19	1
Dieldrin	0.29		0.096	0.0067	ug/L		10/18/11 15:38	10/21/11 17:19	1
4,4'-DDD	0.096	U	0.096	0.0062	ug/L		10/18/11 15:38	10/21/11 17:19	1
4,4'-DDE	0.096	U	0.096	0.0074	ug/L		10/18/11 15:38	10/21/11 17:19	1
4,4'-DDT	0.096	U	0.096	0.0093	ug/L		10/18/11 15:38	10/21/11 17:19	1
Endosulfan I	0.048	U	0.048	0.0040	ug/L		10/18/11 15:38	10/21/11 17:19	1
Endosulfan II	0.096	U	0.096	0.0094	ug/L		10/18/11 15:38	10/21/11 17:19	1
Endosulfan sulfate	0.096	U	0.096	0.0065	ug/L		10/18/11 15:38	10/21/11 17:19	1
Endrin	0.096	U	0.096	0.0093	ug/L		10/18/11 15:38	10/21/11 17:19	1
Endrin aldehyde	0.096	U	0.096	0.015	ug/L		10/18/11 15:38	10/21/11 17:19	1
Endrin ketone	0.43		0.096	0.0080	ug/L		10/18/11 15:38	10/21/11 17:19	1
Heptachlor	0.048	U	0.048	0.0067	ug/L		10/18/11 15:38	10/21/11 17:19	1
Heptachlor epoxide	0.048	U	0.048	0.0057	ug/L		10/18/11 15:38	10/21/11 17:19	1
Methoxychlor	0.096	U	0.096	0.012	ug/L		10/18/11 15:38	10/21/11 17:19	1
Toxaphene	4.3	J p	4.8	0.48	ug/L		10/18/11 15:38	10/21/11 17:19	1

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	74		40 - 130	10/18/11 15:38	10/21/11 17:19	1
DCB Decachlorobiphenyl	71		40 - 130	10/18/11 15:38	10/21/11 17:19	1
Tetrachloro-m-xylene	67		36 - 130	10/18/11 15:38	10/21/11 17:19	1
Tetrachloro-m-xylene	67		36 - 130	10/18/11 15:38	10/21/11 17:19	1

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.48	U	0.48	0.067	ug/L		10/18/11 15:38	10/25/11 19:25	10
alpha-BHC	0.11	J D	0.48	0.055	ug/L		10/18/11 15:38	10/25/11 19:25	10
beta-BHC	3.3	D	0.48	0.064	ug/L		10/18/11 15:38	10/25/11 19:25	10
delta-BHC	0.41	J D	0.48	0.046	ug/L		10/18/11 15:38	10/25/11 19:25	10
gamma-BHC (Lindane)	0.091	J D	0.48	0.056	ug/L		10/18/11 15:38	10/25/11 19:25	10
alpha-Chlordane	0.48	U	0.48	0.057	ug/L		10/18/11 15:38	10/25/11 19:25	10
gamma-Chlordane	0.48	U	0.48	0.049	ug/L		10/18/11 15:38	10/25/11 19:25	10
Dieldrin	0.31	J D	0.96	0.067	ug/L		10/18/11 15:38	10/25/11 19:25	10
4,4'-DDD	0.96	U	0.96	0.062	ug/L		10/18/11 15:38	10/25/11 19:25	10
4,4'-DDE	0.96	U	0.96	0.074	ug/L		10/18/11 15:38	10/25/11 19:25	10
4,4'-DDT	0.96	U	0.96	0.093	ug/L		10/18/11 15:38	10/25/11 19:25	10
Endosulfan I	0.48	U	0.48	0.040	ug/L		10/18/11 15:38	10/25/11 19:25	10

Client Sample Results

Client: Kleinfelder Inc
Project/Site: Geigy Chemical Corp.- GW Annual OCT 2011

TestAmerica Job ID: 680-73320-1

Client Sample ID: MW-30D
Date Collected: 10/11/11 12:01
Date Received: 10/13/11 12:20

Lab Sample ID: 680-73320-14
Matrix: Water

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography - DL (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Endosulfan II	0.96	U	0.96	0.094	ug/L		10/18/11 15:38	10/25/11 19:25	10
Endosulfan sulfate	0.96	U	0.96	0.065	ug/L		10/18/11 15:38	10/25/11 19:25	10
Endrin	0.96	U	0.96	0.093	ug/L		10/18/11 15:38	10/25/11 19:25	10
Endrin aldehyde	0.96	U	0.96	0.15	ug/L		10/18/11 15:38	10/25/11 19:25	10
Endrin ketone	0.48	J D	0.96	0.080	ug/L		10/18/11 15:38	10/25/11 19:25	10
Heptachlor	0.48	U	0.48	0.067	ug/L		10/18/11 15:38	10/25/11 19:25	10
Heptachlor epoxide	0.48	U	0.48	0.057	ug/L		10/18/11 15:38	10/25/11 19:25	10
Methoxychlor	0.96	U	0.96	0.12	ug/L		10/18/11 15:38	10/25/11 19:25	10
Toxaphene	48	U	48	4.8	ug/L		10/18/11 15:38	10/25/11 19:25	10

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*0*	*D*	*40 - 130*	*10/18/11 15:38*	*10/25/11 19:25*	*10*
DCB Decachlorobiphenyl	*0*	*D*	*40 - 130*	*10/18/11 15:38*	*10/25/11 19:25*	*10*
Tetrachloro-m-xylene	*0*	*D*	*36 - 130*	*10/18/11 15:38*	*10/25/11 19:25*	*10*
Tetrachloro-m-xylene	*0*	*D*	*36 - 130*	*10/18/11 15:38*	*10/25/11 19:25*	*10*

Client Sample Results

Client: Kleinfelder Inc
Project/Site: Geigy Chemical Corp.- GW Annual OCT 2011

TestAmerica Job ID: 680-73320-1

Client Sample ID: MW-10S

Date Collected: 10/11/11 12:42
Date Received: 10/13/11 12:20

Lab Sample ID: 680-73320-15
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	1.0	U	1.0	0.13	ug/L			10/21/11 01:25	1

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	102		70 - 130		10/21/11 01:25	1
4-Bromofluorobenzene	110		70 - 130		10/21/11 01:25	1
Dibromofluoromethane	94		70 - 130		10/21/11 01:25	1

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.051	U	0.051	0.0071	ug/L		10/18/11 15:38	10/21/11 17:50	1
alpha-BHC	0.013	J	0.051	0.0058	ug/L		10/18/11 15:38	10/21/11 17:50	1
beta-BHC	1.5	E	0.051	0.0068	ug/L		10/18/11 15:38	10/21/11 17:50	1
delta-BHC	0.047	J	0.051	0.0049	ug/L		10/18/11 15:38	10/21/11 17:50	1
gamma-BHC (Lindane)	0.0098	J p	0.051	0.0060	ug/L		10/18/11 15:38	10/21/11 17:50	1
alpha-Chlordane	0.051	U	0.051	0.0061	ug/L		10/18/11 15:38	10/21/11 17:50	1
gamma-Chlordane	0.051	U	0.051	0.0052	ug/L		10/18/11 15:38	10/21/11 17:50	1
Dieldrin	0.17		0.10	0.0092	ug/L		10/18/11 15:38	10/21/11 17:50	1
4,4'-DDD	0.10	U	0.10	0.0066	ug/L		10/18/11 15:38	10/21/11 17:50	1
4,4'-DDE	0.10	U	0.10	0.0078	ug/L		10/18/11 15:38	10/21/11 17:50	1
4,4'-DDT	0.10	U	0.10	0.0098	ug/L		10/18/11 15:38	10/21/11 17:50	1
Endosulfan I	0.051	U	0.051	0.0043	ug/L		10/18/11 15:38	10/21/11 17:50	1
Endosulfan II	0.10	U	0.10	0.0099	ug/L		10/18/11 15:38	10/21/11 17:50	1
Endosulfan sulfate	0.10	U	0.10	0.0069	ug/L		10/18/11 15:38	10/21/11 17:50	1
Endrin	0.10	U	0.10	0.0098	ug/L		10/18/11 15:38	10/21/11 17:50	1
Endrin aldehyde	0.10	U	0.10	0.016	ug/L		10/18/11 15:38	10/21/11 17:50	1
Endrin ketone	0.28		0.10	0.0065	ug/L		10/18/11 15:38	10/21/11 17:50	1
Heptachlor	0.051	U	0.051	0.0071	ug/L		10/18/11 15:38	10/21/11 17:50	1
Heptachlor epoxide	0.051	U	0.051	0.0061	ug/L		10/18/11 15:38	10/21/11 17:50	1
Methoxychlor	0.10	U	0.10	0.013	ug/L		10/18/11 15:38	10/21/11 17:50	1
Toxaphene	1.6	J p	5.1	0.51	ug/L		10/18/11 15:38	10/21/11 17:50	1

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	64		40 - 130	10/18/11 15:38	10/21/11 17:50	1
DCB Decachlorobiphenyl	66		40 - 130	10/18/11 15:38	10/21/11 17:50	1
Tetrachloro-m-xylene	55		36 - 130	10/18/11 15:38	10/21/11 17:50	1
Tetrachloro-m-xylene	65		36 - 130	10/18/11 15:38	10/21/11 17:50	1

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.20	U	0.20	0.028	ug/L		10/18/11 15:38	10/25/11 19:55	4
alpha-BHC	0.20	U	0.20	0.023	ug/L		10/18/11 15:38	10/25/11 19:55	4
beta-BHC	1.6	D	0.20	0.027	ug/L		10/18/11 15:38	10/25/11 19:55	4
delta-BHC	0.20	U	0.20	0.019	ug/L		10/18/11 15:38	10/25/11 19:55	4
gamma-BHC (Lindane)	0.20	U	0.20	0.024	ug/L		10/18/11 15:38	10/25/11 19:55	4
alpha-Chlordane	0.20	U	0.20	0.024	ug/L		10/18/11 15:38	10/25/11 19:55	4
gamma-Chlordane	0.20	U	0.20	0.021	ug/L		10/18/11 15:38	10/25/11 19:55	4
Dieldrin	0.18	J D	0.41	0.037	ug/L		10/18/11 15:38	10/25/11 19:55	4
4,4'-DDD	0.41	U	0.41	0.026	ug/L		10/18/11 15:38	10/25/11 19:55	4
4,4'-DDE	0.41	U	0.41	0.031	ug/L		10/18/11 15:38	10/25/11 19:55	4
4,4'-DDT	0.41	U	0.41	0.039	ug/L		10/18/11 15:38	10/25/11 19:55	4
Endosulfan I	0.20	U	0.20	0.017	ug/L		10/18/11 15:38	10/25/11 19:55	4

Client Sample Results

Client: Kleinfelder Inc
Project/Site: Geigy Chemical Corp.- GW Annual OCT 2011

TestAmerica Job ID: 680-73320-1

Client Sample ID: MW-10S
Date Collected: 10/11/11 12:42
Date Received: 10/13/11 12:20

Lab Sample ID: 680-73320-15
Matrix: Water

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography - DL (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Endosulfan II	0.41	U	0.41	0.040	ug/L		10/18/11 15:38	10/25/11 19:55	4
Endosulfan sulfate	0.41	U	0.41	0.028	ug/L		10/18/11 15:38	10/25/11 19:55	4
Endrin	0.41	U	0.41	0.039	ug/L		10/18/11 15:38	10/25/11 19:55	4
Endrin aldehyde	0.41	U	0.41	0.065	ug/L		10/18/11 15:38	10/25/11 19:55	4
Endrin ketone	0.27	J D	0.41	0.034	ug/L		10/18/11 15:38	10/25/11 19:55	4
Heptachlor	0.20	U	0.20	0.028	ug/L		10/18/11 15:38	10/25/11 19:55	4
Heptachlor epoxide	0.20	U	0.20	0.024	ug/L		10/18/11 15:38	10/25/11 19:55	4
Methoxychlor	0.41	U	0.41	0.053	ug/L		10/18/11 15:38	10/25/11 19:55	4
Toxaphene	20	U	20	2.0	ug/L		10/18/11 15:38	10/25/11 19:55	4

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*70*		*40 - 130*	*10/18/11 15:38*	*10/25/11 19:55*	*4*
DCB Decachlorobiphenyl	*69*		*40 - 130*	*10/18/11 15:38*	*10/25/11 19:55*	*4*
Tetrachloro-m-xylene	*67*		*36 - 130*	*10/18/11 15:38*	*10/25/11 19:55*	*4*
Tetrachloro-m-xylene	*71*		*36 - 130*	*10/18/11 15:38*	*10/25/11 19:55*	*4*

Client Sample Results

Client: Kleinfelder Inc
Project/Site: Geigy Chemical Corp.- GW Annual OCT 2011

TestAmerica Job ID: 680-73320-1

Client Sample ID: MW-5S
Date Collected: 10/11/11 13:00
Date Received: 10/13/11 12:20

Lab Sample ID: 680-73320-16
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	1.0	U	1.0	0.13	ug/L			10/21/11 01:48	1

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	103		70 - 130		10/21/11 01:48	1
4-Bromofluorobenzene	109		70 - 130		10/21/11 01:48	1
Dibromofluoromethane	95		70 - 130		10/21/11 01:48	1

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.053	U	0.053	0.0074	ug/L		10/18/11 15:38	10/21/11 18:21	1
alpha-BHC	0.053	U	0.053	0.0061	ug/L		10/18/11 15:38	10/21/11 18:21	1
beta-BHC	0.94	E	0.053	0.0071	ug/L		10/18/11 15:38	10/21/11 18:21	1
delta-BHC	0.10		0.053	0.0051	ug/L		10/18/11 15:38	10/21/11 18:21	1
gamma-BHC (Lindane)	0.053	U	0.053	0.0063	ug/L		10/18/11 15:38	10/21/11 18:21	1
alpha-Chlordane	0.053	U	0.053	0.0064	ug/L		10/18/11 15:38	10/21/11 18:21	1
gamma-Chlordane	0.053	U	0.053	0.0054	ug/L		10/18/11 15:38	10/21/11 18:21	1
Dieldrin	0.13		0.11	0.0097	ug/L		10/18/11 15:38	10/21/11 18:21	1
4,4'-DDD	0.11	U	0.11	0.0069	ug/L		10/18/11 15:38	10/21/11 18:21	1
4,4'-DDE	0.11	U	0.11	0.0082	ug/L		10/18/11 15:38	10/21/11 18:21	1
4,4'-DDT	0.11	U	0.11	0.010	ug/L		10/18/11 15:38	10/21/11 18:21	1
Endosulfan I	0.053	U	0.053	0.0045	ug/L		10/18/11 15:38	10/21/11 18:21	1
Endosulfan II	0.11	U	0.11	0.010	ug/L		10/18/11 15:38	10/21/11 18:21	1
Endosulfan sulfate	0.11	U	0.11	0.0072	ug/L		10/18/11 15:38	10/21/11 18:21	1
Endrin	0.11	U	0.11	0.010	ug/L		10/18/11 15:38	10/21/11 18:21	1
Endrin aldehyde	0.11	U	0.11	0.017	ug/L		10/18/11 15:38	10/21/11 18:21	1
Endrin ketone	0.10	J	0.11	0.0089	ug/L		10/18/11 15:38	10/21/11 18:21	1
Heptachlor	0.053	U	0.053	0.0074	ug/L		10/18/11 15:38	10/21/11 18:21	1
Heptachlor epoxide	0.053	U	0.053	0.0064	ug/L		10/18/11 15:38	10/21/11 18:21	1
Methoxychlor	0.11	U	0.11	0.014	ug/L		10/18/11 15:38	10/21/11 18:21	1
Toxaphene	1.7	J	5.3	0.53	ug/L		10/18/11 15:38	10/21/11 18:21	1

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	63		40 - 130	10/18/11 15:38	10/21/11 18:21	1
DCB Decachlorobiphenyl	65		40 - 130	10/18/11 15:38	10/21/11 18:21	1
Tetrachloro-m-xylene	57		36 - 130	10/18/11 15:38	10/21/11 18:21	1
Tetrachloro-m-xylene	63		36 - 130	10/18/11 15:38	10/21/11 18:21	1

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.11	U	0.11	0.015	ug/L		10/18/11 15:38	10/25/11 20:24	2
alpha-BHC	0.11	U	0.11	0.012	ug/L		10/18/11 15:38	10/25/11 20:24	2
beta-BHC	0.93	D	0.11	0.014	ug/L		10/18/11 15:38	10/25/11 20:24	2
delta-BHC	0.10	J D	0.11	0.010	ug/L		10/18/11 15:38	10/25/11 20:24	2
gamma-BHC (Lindane)	0.11	U	0.11	0.013	ug/L		10/18/11 15:38	10/25/11 20:24	2
alpha-Chlordane	0.11	U	0.11	0.013	ug/L		10/18/11 15:38	10/25/11 20:24	2
gamma-Chlordane	0.11	U	0.11	0.011	ug/L		10/18/11 15:38	10/25/11 20:24	2
Dieldrin	0.12	J D	0.21	0.019	ug/L		10/18/11 15:38	10/25/11 20:24	2
4,4'-DDD	0.21	U	0.21	0.014	ug/L		10/18/11 15:38	10/25/11 20:24	2
4,4'-DDE	0.21	U	0.21	0.016	ug/L		10/18/11 15:38	10/25/11 20:24	2
4,4'-DDT	0.21	U	0.21	0.021	ug/L		10/18/11 15:38	10/25/11 20:24	2
Endosulfan I	0.11	U	0.11	0.0089	ug/L		10/18/11 15:38	10/25/11 20:24	2

Client: Kleinfelder Inc
Project/Site: Geigy Chemical Corp.- GW Annual OCT 2011

TestAmerica Job ID: 680-73320-1

Client Sample ID: MW-5S
Date Collected: 10/11/11 13:00
Date Received: 10/13/11 12:20

Lab Sample ID: 680-73320-16
Matrix: Water

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography - DL (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Endosulfan II	0.21	U	0.21	0.021	ug/L		10/18/11 15:38	10/25/11 20:24	2
Endosulfan sulfate	0.21	U	0.21	0.014	ug/L		10/18/11 15:38	10/25/11 20:24	2
Endrin	0.21	U	0.21	0.021	ug/L		10/18/11 15:38	10/25/11 20:24	2
Endrin aldehyde	0.21	U	0.21	0.034	ug/L		10/18/11 15:38	10/25/11 20:24	2
Endrin ketone	0.094	J D	0.21	0.018	ug/L		10/18/11 15:38	10/25/11 20:24	2
Heptachlor	0.11	U	0.11	0.015	ug/L		10/18/11 15:38	10/25/11 20:24	2
Heptachlor epoxide	0.11	U	0.11	0.013	ug/L		10/18/11 15:38	10/25/11 20:24	2
Methoxychlor	0.21	U	0.21	0.028	ug/L		10/18/11 15:38	10/25/11 20:24	2
Toxaphene	11	U	11	1.1	ug/L		10/18/11 15:38	10/25/11 20:24	2

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*62*		*40 - 130*	*10/18/11 15:38*	*10/25/11 20:24*	*2*
DCB Decachlorobiphenyl	*63*		*40 - 130*	*10/18/11 15:38*	*10/25/11 20:24*	*2*
Tetrachloro-m-xylene	*56*		*36 - 130*	*10/18/11 15:38*	*10/25/11 20:24*	*2*
Tetrachloro-m-xylene	*60*		*36 - 130*	*10/18/11 15:38*	*10/25/11 20:24*	*2*

Client Sample Results

Client: Kleinfelder Inc
Project/Site: Geigy Chemical Corp.- GW Annual OCT 2011

TestAmerica Job ID: 680-73320-1

Client Sample ID: MW-17S

Date Collected: 10/11/11 10:58
Date Received: 10/13/11 12:20

Lab Sample ID: 680-73320-17
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	1.0	U	1.0	0.13	ug/L			10/21/11 02:11	1

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	103		70 - 130		10/21/11 02:11	1
4-Bromofluorobenzene	106		70 - 130		10/21/11 02:11	1
Dibromofluoromethane	97		70 - 130		10/21/11 02:11	1

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.048	U	0.048	0.0067	ug/L		10/18/11 15:38	10/21/11 18:51	1
alpha-BHC	0.048	U	0.048	0.0054	ug/L		10/18/11 15:38	10/21/11 18:51	1
beta-BHC	0.048	U	0.048	0.0064	ug/L		10/18/11 15:38	10/21/11 18:51	1
delta-BHC	0.048	U	0.048	0.0046	ug/L		10/18/11 15:38	10/21/11 18:51	1
gamma-BHC (Lindane)	0.048	U	0.048	0.0056	ug/L		10/18/11 15:38	10/21/11 18:51	1
alpha-Chlordane	0.048	U	0.048	0.0057	ug/L		10/18/11 15:38	10/21/11 18:51	1
gamma-Chlordane	0.048	U	0.048	0.0049	ug/L		10/18/11 15:38	10/21/11 18:51	1
Dieldrin	0.096	U	0.096	0.0087	ug/L		10/18/11 15:38	10/21/11 18:51	1
4,4'-DDD	0.096	U	0.096	0.0062	ug/L		10/18/11 15:38	10/21/11 18:51	1
4,4'-DDE	0.096	U	0.096	0.0074	ug/L		10/18/11 15:38	10/21/11 18:51	1
4,4'-DDT	0.096	U	0.096	0.0093	ug/L		10/18/11 15:38	10/21/11 18:51	1
Endosulfan I	0.048	U	0.048	0.0040	ug/L		10/18/11 15:38	10/21/11 18:51	1
Endosulfan II	0.096	U	0.096	0.0094	ug/L		10/18/11 15:38	10/21/11 18:51	1
Endosulfan sulfate	0.096	U	0.096	0.0065	ug/L		10/18/11 15:38	10/21/11 18:51	1
Endrin	0.096	U	0.096	0.0093	ug/L		10/18/11 15:38	10/21/11 18:51	1
Endrin aldehyde	0.096	U	0.096	0.015	ug/L		10/18/11 15:38	10/21/11 18:51	1
Endrin ketone	0.096	U	0.096	0.0080	ug/L		10/18/11 15:38	10/21/11 18:51	1
Heptachlor	0.048	U	0.048	0.0067	ug/L		10/18/11 15:38	10/21/11 18:51	1
Heptachlor epoxide	0.048	U	0.048	0.0057	ug/L		10/18/11 15:38	10/21/11 18:51	1
Methoxychlor	0.096	U	0.096	0.012	ug/L		10/18/11 15:38	10/21/11 18:51	1
Toxaphene	4.8	U	4.8	0.48	ug/L		10/18/11 15:38	10/21/11 18:51	1

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	74		40 - 130	10/18/11 15:38	10/21/11 18:51	1
DCB Decachlorobiphenyl	71		40 - 130	10/18/11 15:38	10/21/11 18:51	1
Tetrachloro-m-xylene	67		36 - 130	10/18/11 15:38	10/21/11 18:51	1
Tetrachloro-m-xylene	70		36 - 130	10/18/11 15:38	10/21/11 18:51	1

Client Sample Results

Client: Kleinfelder Inc
Project/Site: Geigy Chemical Corp.- GW Annual OCT 2011

TestAmerica Job ID: 680-73320-1

Client Sample ID: MW-18D

Date Collected: 10/11/11 13:07
Date Received: 10/13/11 12:20

Lab Sample ID: 680-73320-18
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	24		1.0	0.13	ug/L			10/21/11 02:34	1

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	103		70 - 130		10/21/11 02:34	1
4-Bromofluorobenzene	111		70 - 130		10/21/11 02:34	1
Dibromofluoromethane	95		70 - 130		10/21/11 02:34	1

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.048	U	0.048	0.0067	ug/L		10/18/11 15:38	10/21/11 19:20	1
alpha-BHC	0.28		0.048	0.0055	ug/L		10/18/11 15:38	10/21/11 19:20	1
beta-BHC	1.1	E	0.048	0.0064	ug/L		10/18/11 15:38	10/21/11 19:20	1
delta-BHC	0.24		0.048	0.0046	ug/L		10/18/11 15:38	10/21/11 19:20	1
gamma-BHC (Lindane)	0.24		0.048	0.0057	ug/L		10/18/11 15:38	10/21/11 19:20	1
alpha-Chlordane	0.048	U	0.048	0.0058	ug/L		10/18/11 15:38	10/21/11 19:20	1
gamma-Chlordane	0.048	U	0.048	0.0049	ug/L		10/18/11 15:38	10/21/11 19:20	1
Dieldrin	0.090	J	0.096	0.0088	ug/L		10/18/11 15:38	10/21/11 19:20	1
4,4'-DDD	0.096	U	0.096	0.0063	ug/L		10/18/11 15:38	10/21/11 19:20	1
4,4'-DDE	0.096	U	0.096	0.0074	ug/L		10/18/11 15:38	10/21/11 19:20	1
4,4'-DDT	0.096	U	0.096	0.0093	ug/L		10/18/11 15:38	10/21/11 19:20	1
Endosulfan I	0.048	U	0.048	0.0040	ug/L		10/18/11 15:38	10/21/11 19:20	1
Endosulfan II	0.096	U	0.096	0.0094	ug/L		10/18/11 15:38	10/21/11 19:20	1
Endosulfan sulfate	0.096	U	0.096	0.0065	ug/L		10/18/11 15:38	10/21/11 19:20	1
Endrin	0.096	U	0.096	0.0093	ug/L		10/18/11 15:38	10/21/11 19:20	1
Endrin aldehyde	0.096	U	0.096	0.015	ug/L		10/18/11 15:38	10/21/11 19:20	1
Endrin ketone	0.17		0.096	0.0081	ug/L		10/18/11 15:38	10/21/11 19:20	1
Heptachlor	0.048	U	0.048	0.0067	ug/L		10/18/11 15:38	10/21/11 19:20	1
Heptachlor epoxide	0.048	U	0.048	0.0058	ug/L		10/18/11 15:38	10/21/11 19:20	1
Methoxychlor	0.096	U	0.096	0.013	ug/L		10/18/11 15:38	10/21/11 19:20	1
Toxaphene	1.2	J p	4.8	0.48	ug/L		10/18/11 15:38	10/21/11 19:20	1

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	78		40 - 130	10/18/11 15:38	10/21/11 19:20	1
DCB Decachlorobiphenyl	74		40 - 130	10/18/11 15:38	10/21/11 19:20	1
Tetrachloro-m-xylene	68		36 - 130	10/18/11 15:38	10/21/11 19:20	1
Tetrachloro-m-xylene	65		36 - 130	10/18/11 15:38	10/21/11 19:20	1

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.096	U	0.096	0.013	ug/L		10/18/11 15:38	10/25/11 20:54	2
alpha-BHC	0.25	D	0.096	0.011	ug/L		10/18/11 15:38	10/25/11 20:54	2
beta-BHC	1.1	D	0.096	0.013	ug/L		10/18/11 15:38	10/25/11 20:54	2
delta-BHC	0.22	D	0.096	0.0092	ug/L		10/18/11 15:38	10/25/11 20:54	2
gamma-BHC (Lindane)	0.23	D	0.096	0.011	ug/L		10/18/11 15:38	10/25/11 20:54	2
alpha-Chlordane	0.096	U	0.096	0.012	ug/L		10/18/11 15:38	10/25/11 20:54	2
gamma-Chlordane	0.096	U	0.096	0.0098	ug/L		10/18/11 15:38	10/25/11 20:54	2
Dieldrin	0.086	J D	0.19	0.018	ug/L		10/18/11 15:38	10/25/11 20:54	2
4,4'-DDD	0.19	U	0.19	0.013	ug/L		10/18/11 15:38	10/25/11 20:54	2
4,4'-DDE	0.19	U	0.19	0.015	ug/L		10/18/11 15:38	10/25/11 20:54	2
4,4'-DDT	0.19	U	0.19	0.019	ug/L		10/18/11 15:38	10/25/11 20:54	2
Endosulfan I	0.096	U	0.096	0.0081	ug/L		10/18/11 15:38	10/25/11 20:54	2

Client Sample Results

Client: Kleinfelder Inc
Project/Site: Geigy Chemical Corp.- GW Annual OCT 2011

TestAmerica Job ID: 680-73320-1

Client Sample ID: MW-18D
Date Collected: 10/11/11 13:07
Date Received: 10/13/11 12:20

Lab Sample ID: 680-73320-18
Matrix: Water

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography - DL (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Endosulfan II	0.19	U	0.19	0.019	ug/L		10/18/11 15:38	10/25/11 20:54	2
Endosulfan sulfate	0.19	U	0.19	0.013	ug/L		10/18/11 15:38	10/25/11 20:54	2
Endrin	0.19	U	0.19	0.019	ug/L		10/18/11 15:38	10/25/11 20:54	2
Endrin aldehyde	0.19	U	0.19	0.031	ug/L		10/18/11 15:38	10/25/11 20:54	2
Endrin ketone	0.14	J D	0.19	0.016	ug/L		10/18/11 15:38	10/25/11 20:54	2
Heptachlor	0.096	U	0.096	0.013	ug/L		10/18/11 15:38	10/25/11 20:54	2
Heptachlor epoxide	0.096	U	0.096	0.012	ug/L		10/18/11 15:38	10/25/11 20:54	2
Methoxychlor	0.19	U	0.19	0.025	ug/L		10/18/11 15:38	10/25/11 20:54	2
Toxaphene	9.6	U	9.6	0.96	ug/L		10/18/11 15:38	10/25/11 20:54	2

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	70		40 - 130	10/18/11 15:38	10/25/11 20:54	2
DCB Decachlorobiphenyl	68		40 - 130	10/18/11 15:38	10/25/11 20:54	2
Tetrachloro-m-xylene	59		36 - 130	10/18/11 15:38	10/25/11 20:54	2
Tetrachloro-m-xylene	63		36 - 130	10/18/11 15:38	10/25/11 20:54	2

Client Sample Results

Client: Kleinfelder Inc
Project/Site: Geigy Chemical Corp.- GW Annual OCT 2011

TestAmerica Job ID: 680-73320-1

Client Sample ID: MW-26D
Date Collected: 10/12/11 15:24
Date Received: 10/13/11 12:20

Lab Sample ID: 680-73320-19
Matrix: Water

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.051	U	0.051	0.0071	ug/L		10/19/11 14:58	10/22/11 21:50	1
alpha-BHC	0.014	J	0.051	0.0058	ug/L		10/19/11 14:58	10/22/11 21:50	1
beta-BHC	0.013	J p	0.051	0.0068	ug/L		10/19/11 14:58	10/22/11 21:50	1
delta-BHC	0.051	U	0.051	0.0049	ug/L		10/19/11 14:58	10/22/11 21:50	1
gamma-BHC (Lindane)	0.029	J	0.051	0.0060	ug/L		10/19/11 14:58	10/22/11 21:50	1
alpha-Chlordane	0.051	U	0.051	0.0061	ug/L		10/19/11 14:58	10/22/11 21:50	1
gamma-Chlordane	0.051	U	0.051	0.0052	ug/L		10/19/11 14:58	10/22/11 21:50	1
Dieldrin	0.10	U	0.10	0.0092	ug/L		10/19/11 14:58	10/22/11 21:50	1
4,4'-DDD	0.10	U	0.10	0.0066	ug/L		10/19/11 14:58	10/22/11 21:50	1
4,4'-DDE	0.10	U	0.10	0.0078	ug/L		10/19/11 14:58	10/22/11 21:50	1
4,4'-DDT	0.10	U	0.10	0.0098	ug/L		10/19/11 14:58	10/22/11 21:50	1
Endosulfan I	0.051	U	0.051	0.0043	ug/L		10/19/11 14:58	10/22/11 21:50	1
Endosulfan II	0.10	U	0.10	0.0099	ug/L		10/19/11 14:58	10/22/11 21:50	1
Endosulfan sulfate	0.10	U	0.10	0.0069	ug/L		10/19/11 14:58	10/22/11 21:50	1
Endrin	0.10	U	0.10	0.0098	ug/L		10/19/11 14:58	10/22/11 21:50	1
Endrin aldehyde	0.10	U	0.10	0.016	ug/L		10/19/11 14:58	10/22/11 21:50	1
Endrin ketone	0.10	U	0.10	0.0085	ug/L		10/19/11 14:58	10/22/11 21:50	1
Heptachlor	0.051	U	0.051	0.0071	ug/L		10/19/11 14:58	10/22/11 21:50	1
Heptachlor epoxide	0.051	U	0.051	0.0061	ug/L		10/19/11 14:58	10/22/11 21:50	1
Methoxychlor	0.10	U	0.10	0.013	ug/L		10/19/11 14:58	10/22/11 21:50	1
Toxaphene	5.1	U	5.1	0.51	ug/L		10/19/11 14:58	10/22/11 21:50	1

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*62*		*40 - 130*	*10/19/11 14:58*	*10/22/11 21:50*	*1*
DCB Decachlorobiphenyl	*69*		*40 - 130*	*10/19/11 14:58*	*10/22/11 21:50*	*1*
Tetrachloro-m-xylene	*63*		*36 - 130*	*10/19/11 14:58*	*10/22/11 21:50*	*1*
Tetrachloro-m-xylene	*58*		*36 - 130*	*10/19/11 14:58*	*10/22/11 21:50*	*1*

Client Sample Results

Client: Kleinfelder Inc
Project/Site: Geigy Chemical Corp.- GW Annual OCT 2011

TestAmerica Job ID: 680-73320-1

Client Sample ID: MW-4S
Date Collected: 10/11/11 14:09
Date Received: 10/13/11 12:20

Lab Sample ID: 680-73320-20
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	1.0	U	1.0	0.13	ug/L			10/21/11 02:57	1

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	102		70 - 130		10/21/11 02:57	1
4-Bromofluorobenzene	109		70 - 130		10/21/11 02:57	1
Dibromofluoromethane	94		70 - 130		10/21/11 02:57	1

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.050	U	0.050	0.0070	ug/L		10/18/11 15:38	10/21/11 19:49	1
alpha-BHC	0.013	J	0.050	0.0057	ug/L		10/18/11 15:38	10/21/11 19:49	1
beta-BHC	1.1	E	0.050	0.0067	ug/L		10/18/11 15:38	10/21/11 19:49	1
delta-BHC	0.19		0.050	0.0048	ug/L		10/18/11 15:38	10/21/11 19:49	1
gamma-BHC (Lindane)	0.018	J p	0.050	0.0059	ug/L		10/18/11 15:38	10/21/11 19:49	1
alpha-Chlordane	0.050	U	0.050	0.0060	ug/L		10/18/11 15:38	10/21/11 19:49	1
gamma-Chlordane	0.050	U	0.050	0.0051	ug/L		10/18/11 15:38	10/21/11 19:49	1
Dieldrin	0.13		0.099	0.0090	ug/L		10/18/11 15:38	10/21/11 19:49	1
4,4'-DDD	0.099	U	0.099	0.0065	ug/L		10/18/11 15:38	10/21/11 19:49	1
4,4'-DDE	0.067	J p	0.099	0.0077	ug/L		10/18/11 15:38	10/21/11 19:49	1
4,4'-DDT	0.099	U	0.099	0.0096	ug/L		10/18/11 15:38	10/21/11 19:49	1
Endosulfan I	0.050	U	0.050	0.0042	ug/L		10/18/11 15:38	10/21/11 19:49	1
Endosulfan II	0.099	U	0.099	0.0097	ug/L		10/18/11 15:38	10/21/11 19:49	1
Endosulfan sulfate	0.099	U	0.099	0.0068	ug/L		10/18/11 15:38	10/21/11 19:49	1
Endrin	0.099	U	0.099	0.0096	ug/L		10/18/11 15:38	10/21/11 19:49	1
Endrin aldehyde	0.099	U	0.099	0.016	ug/L		10/18/11 15:38	10/21/11 19:49	1
Endrin ketone	0.086	J	0.099	0.0084	ug/L		10/18/11 15:38	10/21/11 19:49	1
Heptachlor	0.050	U	0.050	0.0070	ug/L		10/18/11 15:38	10/21/11 19:49	1
Heptachlor epoxide	0.050	U	0.050	0.0060	ug/L		10/18/11 15:38	10/21/11 19:49	1
Methoxychlor	0.099	U	0.099	0.013	ug/L		10/18/11 15:38	10/21/11 19:49	1
Toxaphene	5.0	U	5.0	0.50	ug/L		10/18/11 15:38	10/21/11 19:49	1

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	44		40 - 130	10/18/11 15:38	10/21/11 19:49	1
DCB Decachlorobiphenyl	40		40 - 130	10/18/11 15:38	10/21/11 19:49	1
Tetrachloro-m-xylene	71		36 - 130	10/18/11 15:38	10/21/11 19:49	1
Tetrachloro-m-xylene	55		36 - 130	10/18/11 15:38	10/21/11 19:49	1

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.099	U	0.099	0.014	ug/L		10/18/11 15:38	10/25/11 21:24	2
alpha-BHC	0.099	U	0.099	0.011	ug/L		10/18/11 15:38	10/25/11 21:24	2
beta-BHC	1.1	D	0.099	0.013	ug/L		10/18/11 15:38	10/25/11 21:24	2
delta-BHC	0.21	D	0.099	0.0095	ug/L		10/18/11 15:38	10/25/11 21:24	2
gamma-BHC (Lindane)	0.017	J p D	0.099	0.012	ug/L		10/18/11 15:38	10/25/11 21:24	2
alpha-Chlordane	0.099	U	0.099	0.012	ug/L		10/18/11 15:38	10/25/11 21:24	2
gamma-Chlordane	0.099	U	0.099	0.010	ug/L		10/18/11 15:38	10/25/11 21:24	2
Dieldrin	0.14	J D	0.20	0.018	ug/L		10/18/11 15:38	10/25/11 21:24	2
4,4'-DDD	0.20	U	0.20	0.013	ug/L		10/18/11 15:38	10/25/11 21:24	2
4,4'-DDE	0.20	U	0.20	0.015	ug/L		10/18/11 15:38	10/25/11 21:24	2
4,4'-DDT	0.20	U	0.20	0.019	ug/L		10/18/11 15:38	10/25/11 21:24	2
Endosulfan I	0.099	U	0.099	0.0084	ug/L		10/18/11 15:38	10/25/11 21:24	2

Client Sample Results

Client: Kleinfelder Inc
Project/Site: Geigy Chemical Corp.- GW Annual OCT 2011

TestAmerica Job ID: 680-73320-1

Client Sample ID: MW-4S
Date Collected: 10/11/11 14:09
Date Received: 10/13/11 12:20

Lab Sample ID: 680-73320-20
Matrix: Water

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography - DL (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Endosulfan II	0.20	U	0.20	0.019	ug/L		10/18/11 15:38	10/25/11 21:24	2
Endosulfan sulfate	0.20	U	0.20	0.014	ug/L		10/18/11 15:38	10/25/11 21:24	2
Endrin	0.20	U	0.20	0.019	ug/L		10/18/11 15:38	10/25/11 21:24	2
Endrin aldehyde	0.20	U	0.20	0.032	ug/L		10/18/11 15:38	10/25/11 21:24	2
Endrin ketone	0.097	J D	0.20	0.017	ug/L		10/18/11 15:38	10/25/11 21:24	2
Heptachlor	0.099	U	0.099	0.014	ug/L		10/18/11 15:38	10/25/11 21:24	2
Heptachlor epoxide	0.099	U	0.099	0.012	ug/L		10/18/11 15:38	10/25/11 21:24	2
Methoxychlor	0.20	U	0.20	0.026	ug/L		10/18/11 15:38	10/25/11 21:24	2
Toxaphene	9.9	U	9.9	0.99	ug/L		10/18/11 15:38	10/25/11 21:24	2

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*43*		*40 - 130*	*10/18/11 15:38*	*10/25/11 21:24*	*2*
DCB Decachlorobiphenyl	*39*	*X*	*40 - 130*	*10/18/11 15:38*	*10/25/11 21:24*	*2*
Tetrachloro-m-xylene	*78*		*36 - 130*	*10/18/11 15:38*	*10/25/11 21:24*	*2*
Tetrachloro-m-xylene	*60*		*36 - 130*	*10/18/11 15:38*	*10/25/11 21:24*	*2*

Client Sample Results

Client: Kleinfelder Inc
Project/Site: Geigy Chemical Corp.- GW Annual OCT 2011

TestAmerica Job ID: 680-73320-1

Client Sample ID: MW-6S
Date Collected: 10/11/11 14:10
Date Received: 10/13/11 12:20

Lab Sample ID: 680-73320-21
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	1.0	U	1.0	0.13	ug/L			10/21/11 03:20	1

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	102		70 - 130		10/21/11 03:20	1
4-Bromofluorobenzene	109		70 - 130		10/21/11 03:20	1
Dibromofluoromethane	94		70 - 130		10/21/11 03:20	1

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.049	U	0.049	0.0069	ug/L		10/18/11 15:38	10/21/11 20:18	1
alpha-BHC	0.098		0.049	0.0056	ug/L		10/18/11 15:38	10/21/11 20:18	1
beta-BHC	5.6	E	0.049	0.0066	ug/L		10/18/11 15:38	10/21/11 20:18	1
delta-BHC	1.3	E	0.049	0.0047	ug/L		10/18/11 15:38	10/21/11 20:18	1
gamma-BHC (Lindane)	0.054	p	0.049	0.0058	ug/L		10/18/11 15:38	10/21/11 20:18	1
alpha-Chlordane	0.049	U	0.049	0.0059	ug/L		10/18/11 15:38	10/21/11 20:18	1
gamma-Chlordane	0.049	U	0.049	0.0050	ug/L		10/18/11 15:38	10/21/11 20:18	1
Dieldrin	0.33		0.099	0.0090	ug/L		10/18/11 15:38	10/21/11 20:18	1
4,4'-DDD	0.099	U	0.099	0.0064	ug/L		10/18/11 15:38	10/21/11 20:18	1
4,4'-DDE	0.099	U	0.099	0.0076	ug/L		10/18/11 15:38	10/21/11 20:18	1
4,4'-DDT	0.099	U	0.099	0.0096	ug/L		10/18/11 15:38	10/21/11 20:18	1
Endosulfan I	0.049	U	0.049	0.0041	ug/L		10/18/11 15:38	10/21/11 20:18	1
Endosulfan II	0.099	U	0.099	0.0097	ug/L		10/18/11 15:38	10/21/11 20:18	1
Endosulfan sulfate	0.099	U	0.099	0.0067	ug/L		10/18/11 15:38	10/21/11 20:18	1
Endrin	0.099	U	0.099	0.0096	ug/L		10/18/11 15:38	10/21/11 20:18	1
Endrin aldehyde	0.099	U	0.099	0.016	ug/L		10/18/11 15:38	10/21/11 20:18	1
Endrin ketone	0.32		0.099	0.0083	ug/L		10/18/11 15:38	10/21/11 20:18	1
Heptachlor	0.049	U	0.049	0.0069	ug/L		10/18/11 15:38	10/21/11 20:18	1
Heptachlor epoxide	0.049	U	0.049	0.0059	ug/L		10/18/11 15:38	10/21/11 20:18	1
Methoxychlor	0.099	U	0.099	0.013	ug/L		10/18/11 15:38	10/21/11 20:18	1
Toxaphene	6.9		4.9	0.49	ug/L		10/18/11 15:38	10/21/11 20:18	1

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	46		40 - 130	10/18/11 15:38	10/21/11 20:18	1
DCB Decachlorobiphenyl	48		40 - 130	10/18/11 15:38	10/21/11 20:18	1
Tetrachloro-m-xylene	53		36 - 130	10/18/11 15:38	10/21/11 20:18	1
Tetrachloro-m-xylene	57		36 - 130	10/18/11 15:38	10/21/11 20:18	1

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.49	U	0.49	0.069	ug/L		10/18/11 15:38	10/25/11 21:54	10
alpha-BHC	0.10	J D	0.49	0.056	ug/L		10/18/11 15:38	10/25/11 21:54	10
beta-BHC	5.9	D	0.49	0.066	ug/L		10/18/11 15:38	10/25/11 21:54	10
delta-BHC	1.1	D	0.49	0.047	ug/L		10/18/11 15:38	10/25/11 21:54	10
gamma-BHC (Lindane)	0.49	U	0.49	0.058	ug/L		10/18/11 15:38	10/25/11 21:54	10
alpha-Chlordane	0.49	U	0.49	0.059	ug/L		10/18/11 15:38	10/25/11 21:54	10
gamma-Chlordane	0.49	U	0.49	0.050	ug/L		10/18/11 15:38	10/25/11 21:54	10
Dieldrin	0.21	J p D	0.99	0.090	ug/L		10/18/11 15:38	10/25/11 21:54	10
4,4'-DDD	0.99	U	0.99	0.064	ug/L		10/18/11 15:38	10/25/11 21:54	10
4,4'-DDE	0.99	U	0.99	0.076	ug/L		10/18/11 15:38	10/25/11 21:54	10
4,4'-DDT	0.99	U	0.99	0.096	ug/L		10/18/11 15:38	10/25/11 21:54	10
Endosulfan I	0.49	U	0.49	0.041	ug/L		10/18/11 15:38	10/25/11 21:54	10

Client Sample Results

Client: Kleinfelder Inc
Project/Site: Geigy Chemical Corp.- GW Annual OCT 2011

TestAmerica Job ID: 680-73320-1

Client Sample ID: MW-6S
Date Collected: 10/11/11 14:10
Date Received: 10/13/11 12:20

Lab Sample ID: 680-73320-21
Matrix: Water

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography - DL (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Endosulfan II	0.99	U	0.99	0.097	ug/L		10/18/11 15:38	10/25/11 21:54	10
Endosulfan sulfate	0.99	U	0.99	0.067	ug/L		10/18/11 15:38	10/25/11 21:54	10
Endrin	0.99	U	0.99	0.096	ug/L		10/18/11 15:38	10/25/11 21:54	10
Endrin aldehyde	0.99	U	0.99	0.16	ug/L		10/18/11 15:38	10/25/11 21:54	10
Endrin ketone	0.26	J D	0.99	0.083	ug/L		10/18/11 15:38	10/25/11 21:54	10
Heptachlor	0.49	U	0.49	0.069	ug/L		10/18/11 15:38	10/25/11 21:54	10
Heptachlor epoxide	0.49	U	0.49	0.059	ug/L		10/18/11 15:38	10/25/11 21:54	10
Methoxychlor	0.99	U	0.99	0.13	ug/L		10/18/11 15:38	10/25/11 21:54	10
Toxaphene	49	U	49	4.9	ug/L		10/18/11 15:38	10/25/11 21:54	10

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*0*	*D*	*40 - 130*	*10/18/11 15:38*	*10/25/11 21:54*	*10*
DCB Decachlorobiphenyl	*0*	*D*	*40 - 130*	*10/18/11 15:38*	*10/25/11 21:54*	*10*
Tetrachloro-m-xylene	*0*	*D*	*36 - 130*	*10/18/11 15:38*	*10/25/11 21:54*	*10*
Tetrachloro-m-xylene	*0*	*D*	*36 - 130*	*10/18/11 15:38*	*10/25/11 21:54*	*10*

Client Sample Results

Client: Kleinfelder Inc
Project/Site: Geigy Chemical Corp.- GW Annual OCT 2011

TestAmerica Job ID: 680-73320-1

Client Sample ID: MW-17D
Date Collected: 10/11/11 15:29
Date Received: 10/13/11 12:20

Lab Sample ID: 680-73320-22
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	190		1.0	0.13	ug/L			10/21/11 03:43	1

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	101		70 - 130		10/21/11 03:43	1
4-Bromofluorobenzene	108		70 - 130		10/21/11 03:43	1
Dibromofluoromethane	96		70 - 130		10/21/11 03:43	1

Client Sample Results

Client: Kleinfelder Inc
Project/Site: Geigy Chemical Corp.- GW Annual OCT 2011

TestAmerica Job ID: 680-73320-1

Client Sample ID: MW-16D
Date Collected: 10/11/11 16:02
Date Received: 10/13/11 12:20

Lab Sample ID: 680-73320-23
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	99		1.0	0.13	ug/L			10/21/11 04:06	1

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*102*		*70 - 130*		*10/21/11 04:06*	*1*
4-Bromofluorobenzene	*108*		*70 - 130*		*10/21/11 04:06*	*1*
Dibromofluoromethane	*93*		*70 - 130*		*10/21/11 04:06*	*1*

Client Sample Results

Client: Kleinfelder Inc
Project/Site: Geigy Chemical Corp.- GW Annual OCT 2011

TestAmerica Job ID: 680-73320-1

Client Sample ID: Trip Blank
Date Collected: 10/11/11 00:00
Date Received: 10/13/11 10:11

Lab Sample ID: 680-73320-24
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	0.14	J	1.0	0.13	ug/L			10/20/11 23:33	1

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	104		70 - 130		10/20/11 23:33	1
4-Bromofluorobenzene	100		70 - 130		10/20/11 23:33	1
Dibromofluoromethane	80		70 - 130		10/20/11 23:33	1

Surrogate Summary

Client: Kleinfelder Inc
Project/Site: Geigy Chemical Corp.- GW Annual OCT 2011

TestAmerica Job ID: 680-73320-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)		
		TOL	BFB	DBFM
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	(70-130)
680-73320-12	MW-16S	104	108	97
680-73320-13	MW-18S	102	109	95
680-73320-14	MW-30D	102	106	95
680-73320-15	MW-10S	102	110	94
680-73320-16	MW-5S	103	109	95
680-73320-17	MW-17S	103	106	97
680-73320-18	MW-18D	103	111	95
680-73320-20	MW-4S	102	109	94
680-73320-21	MW-6S	102	109	94
680-73320-22	MW-17D	101	108	96
680-73320-23	MW-16D	102	108	93
680-73320-24	Trip Blank	104	100	80
LCS 680-218405/7	Lab Control Sample	93	99	95
LCS 680-218424/4	Lab Control Sample	105	100	87
LCSD 680-218405/8	Lab Control Sample Dup	95	104	98
LCSD 680-218424/3	Lab Control Sample Dup	102	102	89
MB 680-218405/1	Method Blank	100	105	95
MB 680-218424/2	Method Blank	103	99	79

Surrogate Legend

TOL = Toluene-d8 (Surr)
BFB = 4-Bromofluorobenzene
DBFM = Dibromofluoromethane

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		DCB1	DCB2	TCX1	TCX2
Lab Sample ID	Client Sample ID	(40-130)	(40-130)	(36-130)	(36-130)
680-73320-1 - DL	PZ-5	36 X	35 X	33 X	36
680-73320-1	PZ-5	44	44	44	49
680-73320-1 MS	PZ-5	58	64	53	49
680-73320-1 MSD	PZ-5	41	49	57	57
680-73320-2	MW-32L	52	53	62	61
680-73320-3	MW-27L	78	75	70	66
680-73320-3 - DL	MW-27L	76	74	56	63
680-73320-4	MW-36L	65	67	64	62
680-73320-5	MW-22D	78	74	60	60
680-73320-6	MW-31L	59	64	69	66
680-73320-7	Dup-2	60	61	65	60
680-73320-8	MW-22L	68	75	62	57
680-73320-9	MW-25L	63	71	75	76
680-73320-9 - DL	MW-25L	63	62	65	66
680-73320-10	MW-23D	60	63	60	56
680-73320-11	MW-37L	59	62	60	59
680-73320-11 - DL	MW-37L	83	53	104	60
680-73320-12	MW-16S	65	64	56	57
680-73320-12 MS	MW-16S	65	65	48	49
680-73320-12 MSD	MW-16S	81	78	59	62

Surrogate Summary

Client: Kleinfelder Inc
Project/Site: Geigy Chemical Corp.- GW Annual OCT 2011

TestAmerica Job ID: 680-73320-1

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography (Continued)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCB1	DCB2	TCX1	TCX2
Lab Sample ID	Client Sample ID	(40-130)	(40-130)	(36-130)	(36-130)
680-73320-13	MW-18S	72	72	57	60
680-73320-14	MW-30D	74	71	67	67
680-73320-14 - DL	MW-30D	0 D	0 D	0 D	0 D
680-73320-15	MW-10S	64	66	55	65
680-73320-15 - DL	MW-10S	70	69	67	71
680-73320-16	MW-5S	63	65	57	63
680-73320-16 - DL	MW-5S	62	63	56	60
680-73320-17	MW-17S	74	71	67	70
680-73320-18	MW-18D	78	74	68	65
680-73320-18 - DL	MW-18D	70	68	59	63
680-73320-19	MW-26D	62	69	63	58
680-73320-20	MW-4S	44	40	71	55
680-73320-20 - DL	MW-4S	43	39 X	78	60
680-73320-21	MW-6S	46	48	53	57
680-73320-21 - DL	MW-6S	0 D	0 D	0 D	0 D
LCS 680-218075/14-A	Lab Control Sample	61	61	64	67
LCS 680-218170/22-A	Lab Control Sample	53	55	63	62
LCSD 680-218170/23-A	Lab Control Sample Dup	53	54	58	56
MB 680-218075/13-A	Method Blank	62	64	67	73
MB 680-218170/21-A	Method Blank	52	55	73	73

Surrogate Legend

DCB = DCB Decachlorobiphenyl

TCX = Tetrachloro-m-xylene

QC Sample Results

Client: Kleinfelder Inc
Project/Site: Geigy Chemical Corp.- GW Annual OCT 2011

TestAmerica Job ID: 680-73320-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 680-218405/1
Matrix: Water
Analysis Batch: 218405

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	1.0	U	1.0	0.13	ug/L			10/20/11 20:49	1

Surrogate	MB % Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	100		70 - 130		10/20/11 20:49	1
4-Bromofluorobenzene	105		70 - 130		10/20/11 20:49	1
Dibromofluoromethane	95		70 - 130		10/20/11 20:49	1

Lab Sample ID: LCS 680-218405/7
Matrix: Water
Analysis Batch: 218405

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Trichloroethene	50.0	50.8		ug/L		102	70 - 130

Surrogate	LCS % Recovery	LCS Qualifier	Limits
Toluene-d8 (Surr)	93		70 - 130
4-Bromofluorobenzene	99		70 - 130
Dibromofluoromethane	95		70 - 130

Lab Sample ID: LCSD 680-218405/8
Matrix: Water
Analysis Batch: 218405

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Trichloroethene	50.0	51.0		ug/L		102	70 - 130	0	30

Surrogate	LCSD % Recovery	LCSD Qualifier	Limits
Toluene-d8 (Surr)	95		70 - 130
4-Bromofluorobenzene	104		70 - 130
Dibromofluoromethane	98		70 - 130

Lab Sample ID: MB 680-218424/2
Matrix: Water
Analysis Batch: 218424

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	1.0	U	1.0	0.13	ug/L			10/20/11 22:48	1

Surrogate	MB % Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	103		70 - 130		10/20/11 22:48	1
4-Bromofluorobenzene	99		70 - 130		10/20/11 22:48	1
Dibromofluoromethane	79		70 - 130		10/20/11 22:48	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 680-218424/4
Matrix: Water
Analysis Batch: 218424

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits		
Trichloroethene			50.0	47.9		ug/L		96	70 - 130		

Surrogate	LCS % Recovery	LCS Qualifier	Limits
Toluene-d8 (Surr)	105		70 - 130
4-Bromofluorobenzene	100		70 - 130
Dibromofluoromethane	87		70 - 130

Lab Sample ID: LCSD 680-218424/3
Matrix: Water
Analysis Batch: 218424

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Trichloroethene			50.0	47.4		ug/L		95	70 - 130	1	30

Surrogate	LCSD % Recovery	LCSD Qualifier	Limits
Toluene-d8 (Surr)	102		70 - 130
4-Bromofluorobenzene	102		70 - 130
Dibromofluoromethane	89		70 - 130

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Lab Sample ID: MB 680-218075/13-A
Matrix: Water
Analysis Batch: 218881

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 218075

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.050	U	0.050	0.0070	ug/L		10/18/11 15:38	10/21/11 14:15	1
alpha-BHC	0.050	U	0.050	0.0057	ug/L		10/18/11 15:38	10/21/11 14:15	1
beta-BHC	0.050	U	0.050	0.0067	ug/L		10/18/11 15:38	10/21/11 14:15	1
delta-BHC	0.050	U	0.050	0.0048	ug/L		10/18/11 15:38	10/21/11 14:15	1
gamma-BHC (Lindane)	0.050	U	0.050	0.0059	ug/L		10/18/11 15:38	10/21/11 14:15	1
alpha-Chlordane	0.050	U	0.050	0.0060	ug/L		10/18/11 15:38	10/21/11 14:15	1
gamma-Chlordane	0.050	U	0.050	0.0051	ug/L		10/18/11 15:38	10/21/11 14:15	1
Dieldrin	0.10	U	0.10	0.0091	ug/L		10/18/11 15:38	10/21/11 14:15	1
4,4'-DDD	0.10	U	0.10	0.0065	ug/L		10/18/11 15:38	10/21/11 14:15	1
4,4'-DDE	0.10	U	0.10	0.0077	ug/L		10/18/11 15:38	10/21/11 14:15	1
4,4'-DDT	0.10	U	0.10	0.0097	ug/L		10/18/11 15:38	10/21/11 14:15	1
Endosulfan I	0.050	U	0.050	0.0042	ug/L		10/18/11 15:38	10/21/11 14:15	1
Endosulfan II	0.10	U	0.10	0.0098	ug/L		10/18/11 15:38	10/21/11 14:15	1
Endosulfan sulfate	0.10	U	0.10	0.0068	ug/L		10/18/11 15:38	10/21/11 14:15	1
Endrin	0.10	U	0.10	0.0097	ug/L		10/18/11 15:38	10/21/11 14:15	1
Endrin aldehyde	0.10	U	0.10	0.016	ug/L		10/18/11 15:38	10/21/11 14:15	1
Endrin ketone	0.10	U	0.10	0.0084	ug/L		10/18/11 15:38	10/21/11 14:15	1
Heptachlor	0.050	U	0.050	0.0070	ug/L		10/18/11 15:38	10/21/11 14:15	1
Heptachlor epoxide	0.050	U	0.050	0.0060	ug/L		10/18/11 15:38	10/21/11 14:15	1
Methoxychlor	0.10	U	0.10	0.013	ug/L		10/18/11 15:38	10/21/11 14:15	1
Toxaphene	5.0	U	5.0	0.50	ug/L		10/18/11 15:38	10/21/11 14:15	1

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography (Continued)

Lab Sample ID: MB 680-218075/13-A
Matrix: Water
Analysis Batch: 218881

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 218075

Surrogate	MB % Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	62		40 - 130	10/18/11 15:38	10/21/11 14:15	1
DCB Decachlorobiphenyl	64		40 - 130	10/18/11 15:38	10/21/11 14:15	1
Tetrachloro-m-xylene	67		36 - 130	10/18/11 15:38	10/21/11 14:15	1
Tetrachloro-m-xylene	73		36 - 130	10/18/11 15:38	10/21/11 14:15	1

Lab Sample ID: LCS 680-218075/14-A
Matrix: Water
Analysis Batch: 218881

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 218075

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Aldrin	0.100	0.0713		ug/L		71	14 - 168
alpha-BHC	0.100	0.0738		ug/L		74	43 - 138
beta-BHC	0.100	0.0755		ug/L		75	38 - 158
delta-BHC	0.100	0.0872		ug/L		87	23 - 191
gamma-BHC (Lindane)	0.100	0.0797		ug/L		80	54 - 134
alpha-Chlordane	0.100	0.0760		ug/L		76	60 - 130
gamma-Chlordane	0.100	0.0722		ug/L		72	50 - 145
Dieldrin	0.200	0.148		ug/L		74	61 - 136
4,4'-DDD	0.200	0.152		ug/L		76	49 - 144
4,4'-DDE	0.200	0.145		ug/L		72	46 - 144
4,4'-DDT	0.200	0.152		ug/L		76	48 - 166
Endosulfan I	0.100	0.0843		ug/L		84	52 - 141
Endosulfan II	0.200	0.168		ug/L		84	60 - 140
Endosulfan sulfate	0.200	0.166		ug/L		83	60 - 151
Endrin	0.200	0.148		ug/L		74	66 - 150
Endrin aldehyde	0.200	0.204		ug/L		102	16 - 200
Endrin ketone	0.200	0.179		ug/L		89	55 - 156
Heptachlor	0.100	0.0793		ug/L		79	10 - 200
Heptachlor epoxide	0.100	0.0780		ug/L		78	49 - 142
Methoxychlor	0.200	0.158		ug/L		79	13 - 186

Surrogate	LCS % Recovery	LCS Qualifier	Limits
DCB Decachlorobiphenyl	61		40 - 130
DCB Decachlorobiphenyl	61		40 - 130
Tetrachloro-m-xylene	64		36 - 130
Tetrachloro-m-xylene	67		36 - 130

Lab Sample ID: 680-73320-12 MS
Matrix: Water
Analysis Batch: 218881

Client Sample ID: MW-16S
Prep Type: Total/NA
Prep Batch: 218075

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	% Rec	% Rec. Limits
Aldrin	0.050		0.0999	0.0583		ug/L		58	14 - 168
alpha-BHC	0.050		0.0999	0.0655		ug/L		66	43 - 138
beta-BHC	0.050		0.0999	0.0744	p	ug/L		75	38 - 158
delta-BHC	0.050		0.0999	0.0819		ug/L		82	23 - 191
gamma-BHC (Lindane)	0.050		0.0999	0.0697		ug/L		70	54 - 134
alpha-Chlordane	0.050		0.0999	0.0674		ug/L		67	60 - 130

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography (Continued)

Lab Sample ID: 680-73320-12 MS
Matrix: Water
Analysis Batch: 218881

Client Sample ID: MW-16S
Prep Type: Total/NA
Prep Batch: 218075

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	% Rec	% Rec. Limits
gamma-Chlordane	0.050		0.0999	0.0691		ug/L		69	50 - 145
Dieldrin	0.10		0.200	0.130		ug/L		65	61 - 136
4,4'-DDD	0.10		0.200	0.141		ug/L		70	49 - 144
4,4'-DDE	0.10		0.200	0.139		ug/L		70	46 - 144
4,4'-DDT	0.10		0.200	0.152		ug/L		76	48 - 166
Endosulfan I	0.050		0.0999	0.0733		ug/L		73	52 - 141
Endosulfan II	0.10		0.200	0.154		ug/L		77	60 - 140
Endosulfan sulfate	0.10		0.200	0.153		ug/L		77	60 - 151
Endrin	0.10		0.200	0.141		ug/L		71	66 - 150
Endrin aldehyde	0.10		0.200	0.170		ug/L		85	16 - 200
Endrin ketone	0.10		0.200	0.161		ug/L		81	55 - 156
Heptachlor	0.050		0.0999	0.0658		ug/L		66	10 - 200
Heptachlor epoxide	0.050		0.0999	0.0657		ug/L		66	49 - 142
Methoxychlor	0.10		0.200	0.155		ug/L		78	13 - 186

Surrogate	*MS % Recovery*	*MS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*65*		*40 - 130*
DCB Decachlorobiphenyl	*65*		*40 - 130*
Tetrachloro-m-xylene	*48*		*36 - 130*
Tetrachloro-m-xylene	*49*		*36 - 130*

Lab Sample ID: 680-73320-12 MSD
Matrix: Water
Analysis Batch: 218881

Client Sample ID: MW-16S
Prep Type: Total/NA
Prep Batch: 218075

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Aldrin	0.050		0.0955	0.0680		ug/L		71	14 - 166	15	50
alpha-BHC	0.050		0.0955	0.0728		ug/L		76	43 - 138	11	50
beta-BHC	0.050		0.0955	0.0819	p	ug/L		86	38 - 158	10	50
delta-BHC	0.050		0.0955	0.0989		ug/L		104	23 - 191	19	50
gamma-BHC (Lindane)	0.050		0.0955	0.0793		ug/L		83	54 - 134	13	50
alpha-Chlordane	0.050		0.0955	0.0748		ug/L		78	60 - 130	10	50
gamma-Chlordane	0.050		0.0955	0.0723		ug/L		76	50 - 145	5	50
Dieldrin	0.10		0.191	0.148		ug/L		78	61 - 136	13	50
4,4'-DDD	0.10		0.191	0.161		ug/L		84	49 - 144	13	50
4,4'-DDE	0.10		0.191	0.155		ug/L		81	46 - 144	10	50
4,4'-DDT	0.10		0.191	0.173		ug/L		90	48 - 166	13	50
Endosulfan I	0.050		0.0955	0.0818		ug/L		86	52 - 141	11	50
Endosulfan II	0.10		0.191	0.175		ug/L		91	60 - 140	12	50
Endosulfan sulfate	0.10		0.191	0.174		ug/L		91	60 - 151	13	50
Endrin	0.10		0.191	0.160		ug/L		84	66 - 150	12	50
Endrin aldehyde	0.10		0.191	0.218		ug/L		114	16 - 200	24	50
Endrin ketone	0.10		0.191	0.184		ug/L		96	55 - 156	13	50
Heptachlor	0.050		0.0955	0.0794		ug/L		83	10 - 200	19	50
Heptachlor epoxide	0.050		0.0955	0.0757		ug/L		79	49 - 142	14	50
Methoxychlor	0.10		0.191	0.174		ug/L		91	13 - 186	11	50

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography (Continued)

Lab Sample ID: 680-73320-12 MSD
Matrix: Water
Analysis Batch: 218881

Client Sample ID: MW-16S
Prep Type: Total/NA
Prep Batch: 218075

Surrogate	MSD % Recovery	MSD Qualifier	Limits
DCB Decachlorobiphenyl	81		40 - 130
DCB Decachlorobiphenyl	78		40 - 130
Tetrachloro-m-xylene	59		36 - 130
Tetrachloro-m-xylene	62		36 - 130

Lab Sample ID: MB 680-218170/21-A
Matrix: Water
Analysis Batch: 218842

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 218170

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.050	U	0.050	0.0070	ug/L		10/19/11 14:58	10/22/11 16:10	1
alpha-BHC	0.050	U	0.050	0.0057	ug/L		10/19/11 14:58	10/22/11 16:10	1
beta-BHC	0.050	U	0.050	0.0067	ug/L		10/19/11 14:58	10/22/11 16:10	1
delta-BHC	0.050	U	0.050	0.0048	ug/L		10/19/11 14:58	10/22/11 16:10	1
gamma-BHC (Lindane)	0.050	U	0.050	0.0059	ug/L		10/19/11 14:58	10/22/11 16:10	1
alpha-Chlordane	0.050	U	0.050	0.0060	ug/L		10/19/11 14:58	10/22/11 16:10	1
gamma-Chlordane	0.050	U	0.050	0.0051	ug/L		10/19/11 14:58	10/22/11 16:10	1
Dieldrin	0.10	U	0.10	0.0091	ug/L		10/19/11 14:58	10/22/11 16:10	1
4,4'-DDD	0.10	U	0.10	0.0065	ug/L		10/19/11 14:58	10/22/11 16:10	1
4,4'-DDE	0.10	U	0.10	0.0077	ug/L		10/19/11 14:58	10/22/11 16:10	1
4,4'-DDT	0.10	U	0.10	0.0097	ug/L		10/19/11 14:58	10/22/11 16:10	1
Endosulfan I	0.050	U	0.050	0.0042	ug/L		10/19/11 14:58	10/22/11 16:10	1
Endosulfan II	0.10	U	0.10	0.0098	ug/L		10/19/11 14:58	10/22/11 16:10	1
Endosulfan sulfate	0.10	U	0.10	0.0068	ug/L		10/19/11 14:58	10/22/11 16:10	1
Endrin	0.10	U	0.10	0.0097	ug/L		10/19/11 14:58	10/22/11 16:10	1
Endrin aldehyde	0.10	U	0.10	0.016	ug/L		10/19/11 14:58	10/22/11 16:10	1
Endrin ketone	0.10	U	0.10	0.0084	ug/L		10/19/11 14:58	10/22/11 16:10	1
Heptachlor	0.050	U	0.050	0.0070	ug/L		10/19/11 14:58	10/22/11 16:10	1
Heptachlor epoxide	0.050	U	0.050	0.0060	ug/L		10/19/11 14:58	10/22/11 16:10	1
Methoxychlor	0.10	U	0.10	0.013	ug/L		10/19/11 14:58	10/22/11 16:10	1
Toxaphene	5.0	U	5.0	0.50	ug/L		10/19/11 14:58	10/22/11 16:10	1

Surrogate	MB % Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	52		40 - 130	10/19/11 14:58	10/22/11 16:10	1
DCB Decachlorobiphenyl	55		40 - 130	10/19/11 14:58	10/22/11 16:10	1
Tetrachloro-m-xylene	73		36 - 130	10/19/11 14:58	10/22/11 16:10	1
Tetrachloro-m-xylene	73		36 - 130	10/19/11 14:58	10/22/11 16:10	1

Lab Sample ID: LCS 680-218170/22-A
Matrix: Water
Analysis Batch: 218842

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 218170

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Aldrin	0.100	0.0793		ug/L		79	14 - 168
alpha-BHC	0.100	0.0844		ug/L		84	43 - 138
beta-BHC	0.100	0.0936		ug/L		94	38 - 158
delta-BHC	0.100	0.117		ug/L		117	23 - 191
gamma-BHC (Lindane)	0.100	0.0870		ug/L		87	54 - 134

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography (Continued)

Lab Sample ID: LCS 680-218170/22-A
Matrix: Water
Analysis Batch: 218842

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 218170

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
alpha-Chlordane	0.100	0.0891		ug/L		89	60 - 130
gamma-Chlordane	0.100	0.0881		ug/L		88	50 - 145
Dieldrin	0.200	0.175		ug/L		88	61 - 136
4,4'-DDD	0.200	0.182		ug/L		91	49 - 144
4,4'-DDE	0.200	0.171		ug/L		86	46 - 144
4,4'-DDT	0.200	0.237		ug/L		119	48 - 166
Endosulfan I	0.100	0.0897		ug/L		90	52 - 141
Endosulfan II	0.200	0.188		ug/L		94	60 - 140
Endosulfan sulfate	0.200	0.206		ug/L		103	60 - 151
Endrin	0.200	0.213		ug/L		107	66 - 150
Endrin aldehyde	0.200	0.224		ug/L		112	16 - 200
Endrin ketone	0.200	0.216		ug/L		108	55 - 156
Heptachlor	0.100	0.112		ug/L		112	10 - 200
Heptachlor epoxide	0.100	0.0910		ug/L		91	49 - 142
Methoxychlor	0.200	0.229		ug/L		115	13 - 186

Surrogate	*LCS % Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*53*		*40 - 130*
DCB Decachlorobiphenyl	*55*		*40 - 130*
Tetrachloro-m-xylene	*63*		*36 - 130*
Tetrachloro-m-xylene	*62*		*36 - 130*

Lab Sample ID: LCSD 680-218170/23-A
Matrix: Water
Analysis Batch: 218842

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 218170

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Aldrin	0.100	0.0777		ug/L		78	14 - 168	2	50
alpha-BHC	0.100	0.0829		ug/L		83	43 - 138	2	50
beta-BHC	0.100	0.0948		ug/L		95	38 - 158	1	50
delta-BHC	0.100	0.112		ug/L		112	23 - 191	4	50
gamma-BHC (Lindane)	0.100	0.0867		ug/L		87	54 - 134	0	50
alpha-Chlordane	0.100	0.0895		ug/L		89	60 - 130	0	50
gamma-Chlordane	0.100	0.0883		ug/L		88	50 - 145	0	50
Dieldrin	0.200	0.181		ug/L		91	61 - 136	3	50
4,4'-DDD	0.200	0.188		ug/L		94	49 - 144	3	50
4,4'-DDE	0.200	0.173		ug/L		86	46 - 144	1	50
4,4'-DDT	0.200	0.232		ug/L		116	48 - 166	2	50
Endosulfan I	0.100	0.0911		ug/L		91	52 - 141	2	50
Endosulfan II	0.200	0.193		ug/L		97	60 - 140	2	50
Endosulfan sulfate	0.200	0.215		ug/L		108	60 - 151	4	50
Endrin	0.200	0.181		ug/L		91	66 - 150	16	50
Endrin aldehyde	0.200	0.218		ug/L		109	16 - 200	3	50
Endrin ketone	0.200	0.242		ug/L		121	55 - 156	12	50
Heptachlor	0.100	0.102		ug/L		102	10 - 200	9	50
Heptachlor epoxide	0.100	0.0901		ug/L		90	49 - 142	1	50
Methoxychlor	0.200	0.229		ug/L		115	13 - 186	0	50

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography (Continued)

Lab Sample ID: LCSD 680-218170/23-A
Matrix: Water
Analysis Batch: 218842

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 218170

Surrogate	LCSD % Recovery	LCSD Qualifier	Limits
DCB Decachlorobiphenyl	53		40 - 130
DCB Decachlorobiphenyl	54		40 - 130
Tetrachloro-m-xylene	58		36 - 130
Tetrachloro-m-xylene	56		36 - 130

Lab Sample ID: 680-73320-1 MS
Matrix: Water
Analysis Batch: 218842

Client Sample ID: PZ-5
Prep Type: Total/NA
Prep Batch: 218170

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Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	% Rec	% Rec. Limits
Aldrin	0.050		0.0998	0.0655		ug/L		66	14 - 168
alpha-BHC	1.3	E	0.0998	1.34	E 4	ug/L		455	43 - 138
beta-BHC	0.26	*	0.0998	0.362	p F	ug/L		177	38 - 158
delta-BHC	0.39		0.0998	0.463	F	ug/L		194	23 - 191
gamma-BHC (Lindane)	1.2	E	0.0998	1.19	E 4	ug/L		403	54 - 134
alpha-Chlordane	0.050		0.0998	0.0899		ug/L		90	60 - 130
gamma-Chlordane	0.050		0.0998	0.0834		ug/L		84	50 - 145
Dieldrin	0.099		0.200	0.171		ug/L		86	61 - 136
4,4'-DDD	0.099		0.200	0.174		ug/L		87	49 - 144
4,4'-DDE	0.099		0.200	0.165		ug/L		83	46 - 144
4,4'-DDT	0.099		0.200	0.282		ug/L		142	48 - 166
Endosulfan I	0.050		0.0998	0.0853		ug/L		85	52 - 141
Endosulfan II	0.099		0.200	0.183		ug/L		92	60 - 140
Endosulfan sulfate	0.099		0.200	0.195		ug/L		98	60 - 151
Endrin	0.099		0.200	0.207		ug/L		104	66 - 150
Endrin aldehyde	0.099		0.200	0.169		ug/L		85	16 - 200
Endrin ketone	0.017		0.200	0.161	p	ug/L		81	55 - 156
Heptachlor	0.050		0.0998	0.0921		ug/L		92	10 - 200
Heptachlor epoxide	0.050		0.0998	0.0865		ug/L		87	49 - 142
Methoxychlor	0.099		0.200	0.122	p	ug/L		61	13 - 186

Surrogate	MS % Recovery	MS Qualifier	Limits
DCB Decachlorobiphenyl	58		40 - 130
DCB Decachlorobiphenyl	64		40 - 130
Tetrachloro-m-xylene	53		36 - 130
Tetrachloro-m-xylene	49		36 - 130

Lab Sample ID: 680-73320-1 MSD
Matrix: Water
Analysis Batch: 218842

Client Sample ID: PZ-5
Prep Type: Total/NA
Prep Batch: 218170

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Aldrin	0.050		0.103	0.0735		ug/L		72	14 - 168	11	50
alpha-BHC	1.3	E	0.103	1.26	E 4	ug/L		370	43 - 138	6	50
beta-BHC	0.26	*	0.103	0.349	p F	ug/L		159	38 - 158	4	50
delta-BHC	0.39		0.103	0.435		ug/L		161	23 - 191	6	50
gamma-BHC (Lindane)	1.2	E	0.103	1.13	E 4	ug/L		333	54 - 134	5	50
alpha-Chlordane	0.050		0.103	0.0889		ug/L		87	60 - 130	1	50

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography (Continued)

Lab Sample ID: 680-73320-1 MSD
Matrix: Water
Analysis Batch: 218842

Client Sample ID: PZ-5
Prep Type: Total/NA
Prep Batch: 218170

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
gamma-Chlordane	0.050		0.103	0.0860		ug/L		84	50 - 145	3	50
Dieldrin	0.099		0.205	0.185		ug/L		90	61 - 136	7	50
4,4'-DDD	0.099		0.205	0.184		ug/L		90	49 - 144	5	50
4,4'-DDE	0.099		0.205	0.172		ug/L		84	46 - 144	4	50
4,4'-DDT	0.099		0.205	0.273		ug/L		133	48 - 166	3	50
Endosulfan I	0.050		0.103	0.0913		ug/L		89	52 - 141	7	50
Endosulfan II	0.099		0.205	0.196		ug/L		95	60 - 140	7	50
Endosulfan sulfate	0.099		0.205	0.209		ug/L		102	60 - 151	7	50
Endrin	0.099		0.205	0.226		ug/L		110	66 - 150	9	50
Endrin aldehyde	0.099		0.205	0.232		ug/L		113	16 - 200	31	50
Endrin ketone	0.018		0.205	0.252		ug/L		123	55 - 156	44	50
Heptachlor	0.050		0.103	0.107		ug/L		104	10 - 200	15	50
Heptachlor epoxide	0.050		0.103	0.0955		ug/L		93	49 - 142	10	50
Methoxychlor	0.099		0.205	0.133	p	ug/L		65	13 - 186	8	50

Surrogate	*MSD % Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*41*		*40 - 130*
DCB Decachlorobiphenyl	*49*		*40 - 130*
Tetrachloro-m-xylene	*57*		*36 - 130*
Tetrachloro-m-xylene	*57*		*36 - 130*

QC Association Summary

Client: Kleinfelder Inc
Project/Site: Geigy Chemical Corp.- GW Annual OCT 2011

TestAmerica Job ID: 680-73320-1

GC/MS VOA

Analysis Batch: 218405

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-73320-12	MW-16S	Total/NA	Water	8260B	
680-73320-13	MW-18S	Total/NA	Water	8260B	
680-73320-14	MW-30D	Total/NA	Water	8260B	
680-73320-15	MW-10S	Total/NA	Water	8260B	
680-73320-16	MW-5S	Total/NA	Water	8260B	
680-73320-17	MW-17S	Total/NA	Water	8260B	
680-73320-18	MW-18D	Total/NA	Water	8260B	
680-73320-20	MW-4S	Total/NA	Water	8260B	
680-73320-21	MW-6S	Total/NA	Water	8260B	
680-73320-22	MW-17D	Total/NA	Water	8260B	
680-73320-23	MW-16D	Total/NA	Water	8260B	
LCS 680-218405/7	Lab Control Sample	Total/NA	Water	8260B	
LCSD 680-218405/8	Lab Control Sample Dup	Total/NA	Water	8260B	
MB 680-218405/1	Method Blank	Total/NA	Water	8260B	

Analysis Batch: 218424

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-73320-24	Trip Blank	Total/NA	Water	8260B	
LCS 680-218424/4	Lab Control Sample	Total/NA	Water	8260B	
LCSD 680-218424/3	Lab Control Sample Dup	Total/NA	Water	8260B	
MB 680-218424/2	Method Blank	Total/NA	Water	8260B	

GC Semi VOA

Prep Batch: 218075

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-73320-12	MW-16S	Total/NA	Water	3520C	
680-73320-12 MS	MW-16S	Total/NA	Water	3520C	
680-73320-12 MSD	MW-16S	Total/NA	Water	3520C	
680-73320-13	MW-18S	Total/NA	Water	3520C	
680-73320-14	MW-30D	Total/NA	Water	3520C	
680-73320-14 - DL	MW-30D	Total/NA	Water	3520C	
680-73320-15	MW-10S	Total/NA	Water	3520C	
680-73320-15 - DL	MW-10S	Total/NA	Water	3520C	
680-73320-16	MW-5S	Total/NA	Water	3520C	
680-73320-16 - DL	MW-5S	Total/NA	Water	3520C	
680-73320-17	MW-17S	Total/NA	Water	3520C	
680-73320-18	MW-18D	Total/NA	Water	3520C	
680-73320-18 - DL	MW-18D	Total/NA	Water	3520C	
680-73320-20	MW-4S	Total/NA	Water	3520C	
680-73320-20 - DL	MW-4S	Total/NA	Water	3520C	
680-73320-21	MW-6S	Total/NA	Water	3520C	
680-73320-21 - DL	MW-6S	Total/NA	Water	3520C	
LCS 680-218075/14-A	Lab Control Sample	Total/NA	Water	3520C	
MB 680-218075/13-A	Method Blank	Total/NA	Water	3520C	

Prep Batch: 218170

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-73320-1 - DL	PZ-5	Total/NA	Water	3520C	
680-73320-1	PZ-5	Total/NA	Water	3520C	
680-73320-1 MS	PZ-5	Total/NA	Water	3520C	
680-73320-1 MSD	PZ-5	Total/NA	Water	3520C	

GC Semi VOA (Continued)

Prep Batch: 218170 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-73320-2	MW-32L	Total/NA	Water	3520C	
680-73320-3	MW-27L	Total/NA	Water	3520C	
680-73320-3 - DL	MW-27L	Total/NA	Water	3520C	
680-73320-4	MW-36L	Total/NA	Water	3520C	
680-73320-5	MW-22D	Total/NA	Water	3520C	
680-73320-6	MW-31L	Total/NA	Water	3520C	
680-73320-7	Dup-2	Total/NA	Water	3520C	
680-73320-8	MW-22L	Total/NA	Water	3520C	
680-73320-9	MW-25L	Total/NA	Water	3520C	
680-73320-9 - DL	MW-25L	Total/NA	Water	3520C	
680-73320-10	MW-23D	Total/NA	Water	3520C	
680-73320-11	MW-37L	Total/NA	Water	3520C	
680-73320-11 - DL	MW-37L	Total/NA	Water	3520C	
680-73320-19	MW-26D	Total/NA	Water	3520C	
LCS 680-218170/22-A	Lab Control Sample	Total/NA	Water	3520C	
LCSD 680-218170/23-A	Lab Control Sample Dup	Total/NA	Water	3520C	
MB 680-218170/21-A	Method Blank	Total/NA	Water	3520C	

Analysis Batch: 218842

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-73320-1 MS	PZ-5	Total/NA	Water	8081B/8082A	218170
680-73320-1 MSD	PZ-5	Total/NA	Water	8081B/8082A	218170
680-73320-2	MW-32L	Total/NA	Water	8081B/8082A	218170
680-73320-3	MW-27L	Total/NA	Water	8081B/8082A	218170
680-73320-4	MW-36L	Total/NA	Water	8081B/8082A	218170
680-73320-5	MW-22D	Total/NA	Water	8081B/8082A	218170
680-73320-6	MW-31L	Total/NA	Water	8081B/8082A	218170
680-73320-7	Dup-2	Total/NA	Water	8081B/8082A	218170
680-73320-8	MW-22L	Total/NA	Water	8081B/8082A	218170
680-73320-9	MW-25L	Total/NA	Water	8081B/8082A	218170
680-73320-10	MW-23D	Total/NA	Water	8081B/8082A	218170
680-73320-11	MW-37L	Total/NA	Water	8081B/8082A	218170
680-73320-19	MW-26D	Total/NA	Water	8081B/8082A	218170
LCS 680-218170/22-A	Lab Control Sample	Total/NA	Water	8081B/8082A	218170
LCSD 680-218170/23-A	Lab Control Sample Dup	Total/NA	Water	8081B/8082A	218170
MB 680-218170/21-A	Method Blank	Total/NA	Water	8081B/8082A	218170

Analysis Batch: 218881

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-73320-12	MW-16S	Total/NA	Water	8081B/8082A	218075
680-73320-12 MS	MW-16S	Total/NA	Water	8081B/8082A	218075
680-73320-12 MSD	MW-16S	Total/NA	Water	8081B/8082A	218075
680-73320-13	MW-18S	Total/NA	Water	8081B/8082A	218075
680-73320-14	MW-30D	Total/NA	Water	8081B/8082A	218075
680-73320-15	MW-10S	Total/NA	Water	8081B/8082A	218075
680-73320-16	MW-5S	Total/NA	Water	8081B/8082A	218075
680-73320-17	MW-17S	Total/NA	Water	8081B/8082A	218075
680-73320-18	MW-18D	Total/NA	Water	8081B/8082A	218075
680-73320-20	MW-4S	Total/NA	Water	8081B/8082A	218075
680-73320-21	MW-6S	Total/NA	Water	8081B/8082A	218075
LCS 680-218075/14-A	Lab Control Sample	Total/NA	Water	8081B/8082A	218075
MB 680-218075/13-A	Method Blank	Total/NA	Water	8081B/8082A	218075

GC Semi VOA (Continued)

Analysis Batch: 218943

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-73320-1 - DL	PZ-5	Total/NA	Water	8081B/8082A	218170
680-73320-1	PZ-5	Total/NA	Water	8081B/8082A	218170
680-73320-3 - DL	MW-27L	Total/NA	Water	8081B/8082A	218170
680-73320-9 - DL	MW-25L	Total/NA	Water	8081B/8082A	218170
680-73320-11 - DL	MW-37L	Total/NA	Water	8081B/8082A	218170
680-73320-14 - DL	MW-30D	Total/NA	Water	8081B/8082A	218075
680-73320-15 - DL	MW-10S	Total/NA	Water	8081B/8082A	218075
680-73320-16 - DL	MW-5S	Total/NA	Water	8081B/8082A	218075
680-73320-18 - DL	MW-18D	Total/NA	Water	8081B/8082A	218075
680-73320-20 - DL	MW-4S	Total/NA	Water	8081B/8082A	218075
680-73320-21 - DL	MW-6S	Total/NA	Water	8081B/8082A	218075

Lab Chronicle

Client: Kleinfelder Inc
Project/Site: Geigy Chemical Corp.- GW Annual OCT 2011

TestAmerica Job ID: 680-73320-1

Client Sample ID: PZ-5

Lab Sample ID: 680-73320-1
Matrix: Water

Date Collected: 10/12/11 16:15
Date Received: 10/13/11 12:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Prep	3520C	DL		218170	10/19/11 14:58	RBS	TAL SAV
Total/NA	Analysis	8081B/8082A	DL	2	218943	10/25/11 16:55	JK	TAL SAV
Total/NA	Prep	3520C			218170	10/19/11 14:58	RBS	TAL SAV
Total/NA	Analysis	8081B/8082A		1	218943	10/25/11 17:26	JK	TAL SAV

Client Sample ID: MW-32L

Lab Sample ID: 680-73320-2
Matrix: Water

Date Collected: 10/12/11 14:33
Date Received: 10/13/11 12:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			218170	10/19/11 14:58	RBS	TAL SAV
Total/NA	Analysis	8081B/8082A		1	218842	10/22/11 18:41	JK	TAL SAV

Client Sample ID: MW-27L

Lab Sample ID: 680-73320-3
Matrix: Water

Date Collected: 10/12/11 12:18
Date Received: 10/13/11 12:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			218170	10/19/11 14:58	RBS	TAL SAV
Total/NA	Analysis	8081B/8082A		1	218842	10/22/11 19:00	JK	TAL SAV
Total/NA	Prep	3520C	DL		218170	10/19/11 14:58	RBS	TAL SAV
Total/NA	Analysis	8081B/8082A	DL	4	218943	10/25/11 17:56	JK	TAL SAV

Client Sample ID: MW-36L

Lab Sample ID: 680-73320-4
Matrix: Water

Date Collected: 10/12/11 11:42
Date Received: 10/13/11 12:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			218170	10/19/11 14:58	RBS	TAL SAV
Total/NA	Analysis	8081B/8082A		1	218842	10/22/11 19:19	JK	TAL SAV

Client Sample ID: MW-22D

Lab Sample ID: 680-73320-5
Matrix: Water

Date Collected: 10/12/11 10:37
Date Received: 10/13/11 12:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			218170	10/19/11 14:58	RBS	TAL SAV
Total/NA	Analysis	8081B/8082A		1	218842	10/22/11 19:38	JK	TAL SAV

Lab Chronicle

Client: Kleinfelder Inc
Project/Site: Geigy Chemical Corp.- GW Annual OCT 2011

TestAmerica Job ID: 680-73320-1

Client Sample ID: MW-31L

Date Collected: 10/12/11 16:11
Date Received: 10/13/11 12:20

Lab Sample ID: 680-73320-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			218170	10/19/11 14:58	RBS	TAL SAV
Total/NA	Analysis	8081B/8082A		1	218842	10/22/11 19:57	JK	TAL SAV

Client Sample ID: Dup-2

Date Collected: 10/12/11 16:12
Date Received: 10/13/11 12:20

Lab Sample ID: 680-73320-7
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			218170	10/19/11 14:58	RBS	TAL SAV
Total/NA	Analysis	8081B/8082A		1	218842	10/22/11 20:16	JK	TAL SAV

Client Sample ID: MW-22L

Date Collected: 10/12/11 10:17
Date Received: 10/13/11 12:20

Lab Sample ID: 680-73320-8
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			218170	10/19/11 14:58	RBS	TAL SAV
Total/NA	Analysis	8081B/8082A		1	218842	10/22/11 20:35	JK	TAL SAV

Client Sample ID: MW-25L

Date Collected: 10/12/11 11:23
Date Received: 10/13/11 12:20

Lab Sample ID: 680-73320-9
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			218170	10/19/11 14:58	RBS	TAL SAV
Total/NA	Analysis	8081B/8082A		1	218842	10/22/11 20:54	JK	TAL SAV
Total/NA	Prep	3520C	DL		218170	10/19/11 14:58	RBS	TAL SAV
Total/NA	Analysis	8081B/8082A	DL	2	218943	10/25/11 18:26	JK	TAL SAV

Client Sample ID: MW-23D

Date Collected: 10/12/11 10:26
Date Received: 10/13/11 12:20

Lab Sample ID: 680-73320-10
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			218170	10/19/11 14:58	RBS	TAL SAV
Total/NA	Analysis	8081B/8082A		1	218842	10/22/11 21:13	JK	TAL SAV

Client Sample ID: MW-37L

Date Collected: 10/12/11 12:00
Date Received: 10/13/11 12:20

Lab Sample ID: 680-73320-11
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			218170	10/19/11 14:58	RBS	TAL SAV
Total/NA	Analysis	8081B/8082A		1	218842	10/22/11 21:31	JK	TAL SAV

Lab Chronicle

Client: Kleinfelder Inc
Project/Site: Geigy Chemical Corp.- GW Annual OCT 2011

TestAmerica Job ID: 680-73320-1

Client Sample ID: MW-37L

Lab Sample ID: 680-73320-11
Matrix: Water

Date Collected: 10/12/11 12:00
Date Received: 10/13/11 12:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Prep	3520C	DL		218170	10/19/11 14:58	RBS	TAL SAV
Total/NA	Analysis	8081B/8082A	DL	2	218943	10/25/11 18:55	JK	TAL SAV

Client Sample ID: MW-16S

Lab Sample ID: 680-73320-12
Matrix: Water

Date Collected: 10/11/11 10:28
Date Received: 10/13/11 12:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	218405	10/21/11 00:16	AJMC	TAL SAV
Total/NA	Prep	3520C			218075	10/18/11 15:38	RBS	TAL SAV
Total/NA	Analysis	8081B/8082A		1	218881	10/21/11 16:17	JK	TAL SAV

Client Sample ID: MW-18S

Lab Sample ID: 680-73320-13
Matrix: Water

Date Collected: 10/11/11 11:14
Date Received: 10/13/11 12:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	218405	10/21/11 00:39	AJMC	TAL SAV
Total/NA	Prep	3520C			218075	10/18/11 15:38	RBS	TAL SAV
Total/NA	Analysis	8081B/8082A		1	218881	10/21/11 16:48	JK	TAL SAV

Client Sample ID: MW-30D

Lab Sample ID: 680-73320-14
Matrix: Water

Date Collected: 10/11/11 12:01
Date Received: 10/13/11 12:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	218405	10/21/11 01:02	AJMC	TAL SAV
Total/NA	Prep	3520C			218075	10/18/11 15:38	RBS	TAL SAV
Total/NA	Analysis	8081B/8082A		1	218881	10/21/11 17:19	JK	TAL SAV
Total/NA	Prep	3520C	DL		218075	10/18/11 15:38	RBS	TAL SAV
Total/NA	Analysis	8081B/8082A	DL	10	218943	10/25/11 19:25	JK	TAL SAV

Client Sample ID: MW-10S

Lab Sample ID: 680-73320-15
Matrix: Water

Date Collected: 10/11/11 12:42
Date Received: 10/13/11 12:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	218405	10/21/11 01:25	AJMC	TAL SAV
Total/NA	Prep	3520C			218075	10/18/11 15:38	RBS	TAL SAV
Total/NA	Analysis	8081B/8082A		1	218881	10/21/11 17:50	JK	TAL SAV
Total/NA	Prep	3520C	DL		218075	10/18/11 15:38	RBS	TAL SAV
Total/NA	Analysis	8081B/8082A	DL	4	218943	10/25/11 19:55	JK	TAL SAV

Lab Chronicle

Client: Kleinfelder Inc
Project/Site: Geigy Chemical Corp.- GW Annual OCT 2011

TestAmerica Job ID: 680-73320-1

Client Sample ID: MW-5S

Date Collected: 10/11/11 13:00
Date Received: 10/13/11 12:20

Lab Sample ID: 680-73320-16
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	218405	10/21/11 01:48	AJMC	TAL SAV
Total/NA	Prep	3520C			218075	10/18/11 15:38	RBS	TAL SAV
Total/NA	Analysis	8081B/8082A		1	218881	10/21/11 18:21	JK	TAL SAV
Total/NA	Prep	3520C	DL		218075	10/18/11 15:38	RBS	TAL SAV
Total/NA	Analysis	8081B/8082A	DL	2	218943	10/25/11 20:24	JK	TAL SAV

Client Sample ID: MW-17S

Date Collected: 10/11/11 10:58
Date Received: 10/13/11 12:20

Lab Sample ID: 680-73320-17
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	218405	10/21/11 02:11	AJMC	TAL SAV
Total/NA	Prep	3520C			218075	10/18/11 15:38	RBS	TAL SAV
Total/NA	Analysis	8081B/8082A		1	218881	10/21/11 18:51	JK	TAL SAV

Client Sample ID: MW-18D

Date Collected: 10/11/11 13:07
Date Received: 10/13/11 12:20

Lab Sample ID: 680-73320-18
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	218405	10/21/11 02:34	AJMC	TAL SAV
Total/NA	Prep	3520C			218075	10/18/11 15:38	RBS	TAL SAV
Total/NA	Analysis	8081B/8082A		1	218881	10/21/11 19:20	JK	TAL SAV
Total/NA	Prep	3520C	DL		218075	10/18/11 15:38	RBS	TAL SAV
Total/NA	Analysis	8081B/8082A	DL	2	218943	10/25/11 20:54	JK	TAL SAV

Client Sample ID: MW-26D

Date Collected: 10/12/11 15:24
Date Received: 10/13/11 12:20

Lab Sample ID: 680-73320-19
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			218170	10/19/11 14:58	RBS	TAL SAV
Total/NA	Analysis	8081B/8082A		1	218842	10/22/11 21:50	JK	TAL SAV

Client Sample ID: MW-4S

Date Collected: 10/11/11 14:09
Date Received: 10/13/11 12:20

Lab Sample ID: 680-73320-20
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	218405	10/21/11 02:57	AJMC	TAL SAV
Total/NA	Prep	3520C			218075	10/18/11 15:38	RBS	TAL SAV
Total/NA	Analysis	8081B/8082A		1	218881	10/21/11 19:49	JK	TAL SAV
Total/NA	Prep	3520C	DL		218075	10/18/11 15:38	RBS	TAL SAV
Total/NA	Analysis	8081B/8082A	DL	2	218943	10/25/11 21:24	JK	TAL SAV

Lab Chronicle

Client: Kleinfelder Inc
Project/Site: Geigy Chemical Corp.- GW Annual OCT 2011

TestAmerica Job ID: 680-73320-1

Client Sample ID: MW-6S

Lab Sample ID: 680-73320-21
Matrix: Water

Date Collected: 10/11/11 14:10
Date Received: 10/13/11 12:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	218405	10/21/11 03:20	AJMC	TAL SAV
Total/NA	Prep	3520C			218075	10/18/11 15:38	RBS	TAL SAV
Total/NA	Analysis	8081B/8082A		1	218881	10/21/11 20:18	JK	TAL SAV
Total/NA	Prep	3520C	DL		218075	10/18/11 15:38	RBS	TAL SAV
Total/NA	Analysis	8081B/8082A	DL	10	218943	10/25/11 21:54	JK	TAL SAV

Client Sample ID: MW-17D

Lab Sample ID: 680-73320-22
Matrix: Water

Date Collected: 10/11/11 15:29
Date Received: 10/13/11 12:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	218405	10/21/11 03:43	AJMC	TAL SAV

Client Sample ID: MW-16D

Lab Sample ID: 680-73320-23
Matrix: Water

Date Collected: 10/11/11 16:02
Date Received: 10/13/11 12:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	218405	10/21/11 04:06	AJMC	TAL SAV

Client Sample ID: Trip Blank

Lab Sample ID: 680-73320-24
Matrix: Water

Date Collected: 10/11/11 00:00
Date Received: 10/13/11 10:11

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	218424	10/20/11 23:33	AJMC	TAL SAV

Laboratory References:

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Serial Number U

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404

Alternate Laboratory Name/Location

PROJECT REFERENCE: Olin/Grieggy	PROJECT NO.: 115984	PROJECT LOCATION (STATE): NC	
TAL (LAB) PROJECT MANAGER: Lidya Gutiza	P.O. NUMBER:	CONTRACT NO.:	
CLIENT (SITE) PM: Chris Hay	CLIENT PHONE: (336)668-0093	CLIENT FAX:	
CLIENT NAME: Kleinfelder	CLIENT E-MAIL: chay@kleinfelder.com ppozzo@kleinfelder.com		
CLIENT ADDRESS: 313 Grathmore Dairy Rd. Greensboro NC 27409			
COMPANY CONTRACTING THIS WORK (if applicable):			

MATRIX TYPE: COMPOSITE (C) OR GRAB (G) INDICATE; AQUEOUS (WATER); SOLID OR SEMISOLID; AIR; NONAQUEOUS LIQUID (OIL, SOLVENT, ...)

REQUIRED ANALYSIS: 8081, 8082 GNC; TCLP only 8260; 1,4-Dioxane - Hydrocarbon Capped

PRESERVATIVE

NUMBER OF CONTAINERS SUBMITTED

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	8081, 8082 GNC	TCLP only 8260
10-12-11	16:15	PZ-5	✓	
	14:33	MW-32L	✓	
	12:18	MW-27L	✓	
	11:42	MW-36L	✓	
	10:37	MW-22D	✓	
	16:11	MW-31L	✓	
	16:12	Dup-2	✓	
	10:17	MW-22L	✓	
	11:23	MW-25L	✓	
	10:26	MW-23D	✓	
	12:00	MW-37L	✓	
10-11-11	10:28	MW-16S		✓

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)
Eric Blume	10-12-11	19:30	Fedex	10-12-11	19:30	
RECEIVED BY: (SIGNATURE)	**DATE**	**TIME**	**RECEIVED BY: (SIGNATURE)**	**DATE**	**TIME**	**RECEIVED BY: (SIGNATURE)**

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	SAVANNAH LOG NO.	LABORATORY REMARKS
George Kloss	10/13/11	1011	YES ○ NO ○		690-73326	4.4 / 5.1 / 4.4 / 5.1 /

Serial Number U

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404

Webs
Phone
Fax: (

Alternate Laboratory Name/Location

Phone:
Fax:

PROJECT REFERENCE: Olin/Geigy	PROJECT NO.: ~~1188~~ 115984	PROJECT LOCATION (STATE): NC
TAL (LAB) PROJECT MANAGER: Lidya Guliza	P.O. NUMBER:	CONTRACT NO.:
CLIENT (SITE) PM: Chris Hay	CLIENT PHONE: 336 668 0093	CLIENT FAX:
CLIENT NAME: Kleinfelder	CLIENT E-MAIL: Chay@Kleinfelder.com ppozzo@kleinfelder.com	
CLIENT ADDRESS: 313 Gallimore Dairy Rd Greensboro, NC 27409		
COMPANY CONTRACTING THIS WORK (if applicable):		

MATRIX TYPE: COMPOSITE (C) OR GRAB (G) INDICATE; AQUEOUS (WATER); SOLID OR SEMISOLID; AIR; NONAQUEOUS LIQUID (OIL, SOLVENT, ...)

REQUIRED ANALYSIS: 8081, 8082 EWC Isomer Heptachlorex-pyride; TCE only 8260

PRESERVATIVE

NUMBER OF CONTAINERS SUBMITTED

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	8081, 8082 EWC Isomer Heptachlorex-pyride	TCE only 8260
10-11-11	11:14	MW-18S						✓	✓
	12:01	MW-30D						✓	✓
	12:42	MW-10S						✓	✓
	13:00	MW-5S						✓	✓
	10:58	MW-17S						✓	✓
	13:07	MW-18D						✓	✓
10-12-11	15:24	MW-26D						✓	
10-11-11	14:09	MW-4S						✓	✓
	14:10	MW-6S						✓	✓
	15:29	MW-17D							✓
	16:02	MW-16D							✓

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATUR
[signature]	10-12-11	19:30	Fed ex	10-12-11	19:30	
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	SAVANNAH LOG NO.	LABORATORY REMARKS
[signature]	10/13/11	1015	YES ○ NO ○		680-73320	

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Login Sample Receipt Checklist

Client: Kleinfelder Inc

Job Number: 680-73320-1

Login Number: 73320
List Number: 1
Creator: Conner, Keaton

List Source: TestAmerica Savannah

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	5 coolers rec'd on ice
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	4.4, 5.1, 4.6, 5.1, 4.4 C
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	False	Trip not listed on COC/-12 received liter volumes
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	Insufficient volume received for MS/MSD.
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	

Certification Summary

Client: Kleinfelder Inc
Project/Site: Geigy Chemical Corp.- GW Annual OCT 2011

TestAmerica Job ID: 680-73320-1

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Savannah	A2LA	DoD ELAP		0399-01
TestAmerica Savannah	A2LA	ISO/IEC 17025		399.01
TestAmerica Savannah	Alabama	State Program	4	41450
TestAmerica Savannah	Arkansas	Arkansas DOH	6	N/A
TestAmerica Savannah	Arkansas	State Program	6	88-0692
TestAmerica Savannah	California	NELAC	9	3217CA
TestAmerica Savannah	Colorado	State Program	8	N/A
TestAmerica Savannah	Connecticut	State Program	1	PH-0161
TestAmerica Savannah	Delaware	State Program	3	N/A
TestAmerica Savannah	Florida	NELAC	4	E87052
TestAmerica Savannah	Georgia	Georgia EPD	4	N/A
TestAmerica Savannah	Georgia	State Program	4	803
TestAmerica Savannah	Guam	State Program	9	09-005r
TestAmerica Savannah	Hawaii	State Program	9	N/A
TestAmerica Savannah	Illinois	NELAC	5	200022
TestAmerica Savannah	Indiana	State Program	5	N/A
TestAmerica Savannah	Iowa	State Program	7	353
TestAmerica Savannah	Kentucky	Kentucky UST	4	18
TestAmerica Savannah	Kentucky	State Program	4	90084
TestAmerica Savannah	Louisiana	NELAC	6	30690
TestAmerica Savannah	Louisiana	NELAC	6	LA100015
TestAmerica Savannah	Maine	State Program	1	GA00006
TestAmerica Savannah	Maryland	State Program	3	250
TestAmerica Savannah	Massachusetts	State Program	1	M-GA006
TestAmerica Savannah	Michigan	State Program	5	9925
TestAmerica Savannah	Mississippi	State Program	4	N/A
TestAmerica Savannah	Montana	State Program	8	CERT0081
TestAmerica Savannah	Nebraska	State Program	7	TestAmerica-Savannah
TestAmerica Savannah	New Jersey	NELAC	2	GA769
TestAmerica Savannah	New Mexico	State Program	6	N/A
TestAmerica Savannah	New York	NELAC	2	10842
TestAmerica Savannah	North Carolina	North Carolina DENR	4	269
TestAmerica Savannah	North Carolina	North Carolina PHL	4	13701
TestAmerica Savannah	Oklahoma	State Program	6	9984
TestAmerica Savannah	Pennsylvania	NELAC	3	68-00474
TestAmerica Savannah	Puerto Rico	State Program	2	GA00006
TestAmerica Savannah	Rhode Island	State Program	1	LAO00244
TestAmerica Savannah	South Carolina	State Program	4	98001
TestAmerica Savannah	Tennessee	State Program	4	TN02961
TestAmerica Savannah	Texas	NELAC	6	T104704185-08-TX
TestAmerica Savannah	USDA	USDA		SAV 3-04
TestAmerica Savannah	Vermont	State Program	1	87052
TestAmerica Savannah	Virginia	NELAC Secondary AB	3	460161
TestAmerica Savannah	Virginia	State Program	3	302
TestAmerica Savannah	Washington	State Program	10	C1794
TestAmerica Savannah	West Virginia	West Virginia DEP	3	94
TestAmerica Savannah	West Virginia	West Virginia DHHR (DW)	3	9950C
TestAmerica Savannah	Wisconsin	State Program	5	999819810
TestAmerica Savannah	Wyoming	State Program	8	8TMS-Q

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Tel: (912)354-7858

TestAmerica Job ID: 680-73393-1
Client Project/Site: Geigy Chemical Corp.- GW Annual OCT 2011

For:
Kleinfelder Inc
313 Gallimore Dairy Road
Greensboro, North Carolina 27409

Attn: Mr. Christopher W Hay

Authorized for release by:
10/31/2011 10:29:39 AM

Lidya Gulizia
Project Manager II
lidya.gulizia@testamericainc.com

Results relate only to the items tested and the sample(s) as received by the laboratory. The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

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Job ID: 680-73393-1

Laboratory: TestAmerica Savannah

Narrative

Job Narrative
680-73393-1

Receipt
All samples were received in good condition within temperature requirements.

GC/MS VOA
No analytical or quality issues were noted.

GC Semi VOA
Method(s) 8081B/8082A: Internal standard (ISTD) response for the following sample(s) exceeded the control limit on Column one: MW-40L (680-73393-5). As such, the sample results associated with this ISTD were reported from the other column, which met ISTD acceptance criteria.

Method(s) 8081B/8082A: Two surrogates are used for this analysis. The laboratory's SOP allows one of these surrogates to be outside acceptance criteria without performing re-extraction/re-analysis. The following sample(s) contained an allowable number of surrogate compounds outside limits: MW-38L (680-73393-7), MW-40L (680-73393-5), (LCS 680-218292/15-A), MW-40L (680-73393-5). These results have been reported and qualified.

Method(s) 8081B/8082A: This method incorporates the use of second column confirmation. Corrective action for unacceptable percent recovery is not taken for surrogate compounds unless the results from both columns are outside criteria. Any results which fall outside criteria are qualified and reported.

No other analytical or quality issues were noted.

Comments
No additional comments.

Sample Summary

Client: Kleinfelder Inc
Project/Site: Geigy Chemical Corp.- GW Annual OCT 2011

TestAmerica Job ID: 680-73393-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-73393-1	Carbon A-2	Water	10/13/11 14:07	10/14/11 09:27
680-73393-2	Carbon B-1	Water	10/13/11 13:55	10/14/11 09:27
680-73393-3	Influent	Water	10/13/11 14:13	10/14/11 09:27
680-73393-4	Effluent	Water	10/13/11 14:21	10/14/11 09:27
680-73393-5	MW-40L	Water	10/13/11 12:23	10/14/11 09:27
680-73393-6	PZ-2	Water	10/13/11 10:48	10/14/11 09:27
680-73393-7	MW-38L	Water	10/13/11 10:13	10/14/11 09:27
680-73393-8	MW-39L	Water	10/13/11 09:35	10/14/11 09:27
680-73393-9	PZ-3	Water	10/13/11 11:23	10/14/11 09:27
680-73393-10	Trip Blank	Water	10/13/11 00:00	10/14/11 09:27

Method Summary

Client: Kleinfelder Inc
Project/Site: Geigy Chemical Corp.- GW Annual OCT 2011

TestAmerica Job ID: 680-73393-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL SAV
8081B/8082A	Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography	SW846	TAL SAV

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Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Definitions/Glossary

Client: Kleinfelder Inc
Project/Site: Geigy Chemical Corp.- GW Annual OCT 2011

TestAmerica Job ID: 680-73393-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC Semi VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
E	Result exceeded calibration range.
p	The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.
D	Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution may be flagged with a D.
X	Surrogate is outside control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Detection Summary

Client: Kleinfelder Inc
Project/Site: Geigy Chemical Corp.- GW Annual OCT 2011

TestAmerica Job ID: 680-73393-1

Client Sample ID: Carbon A-2 — Lab Sample ID: 680-73393-1

No Detections

Client Sample ID: Carbon B-1 — Lab Sample ID: 680-73393-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Trichloroethene	0.15	J	1.0	0.13	ug/L	1		8260B	Total/NA
beta-BHC	0.074		0.050	0.0067	ug/L	1		8081B/8082A	Total/NA

Client Sample ID: Influent — Lab Sample ID: 680-73393-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Trichloroethene	2.0		1.0	0.13	ug/L	1		8260B	Total/NA
alpha-BHC	0.071		0.050	0.0056	ug/L	1		8081B/8082A	Total/NA
beta-BHC	2.0	E	0.050	0.0066	ug/L	1		8081B/8082A	Total/NA
delta-BHC	0.60		0.050	0.0048	ug/L	1		8081B/8082A	Total/NA
gamma-BHC (Lindane)	0.11		0.050	0.0058	ug/L	1		8081B/8082A	Total/NA
Dieldrin	0.26		0.099	0.0090	ug/L	1		8081B/8082A	Total/NA
4,4'-DDE	0.073	J	0.099	0.0076	ug/L	1		8081B/8082A	Total/NA
Endrin ketone	0.25		0.099	0.0083	ug/L	1		8081B/8082A	Total/NA
Toxaphene	1.4	J p	5.0	0.50	ug/L	1		8081B/8082A	Total/NA
alpha-BHC - DL	0.066	J D	0.20	0.023	ug/L	4		8081B/8082A	Total/NA
beta-BHC - DL	2.4	D	0.20	0.027	ug/L	4		8081B/8082A	Total/NA
delta-BHC - DL	0.69	D	0.20	0.019	ug/L	4		8081B/8082A	Total/NA
gamma-BHC (Lindane) - DL	0.057	J D	0.20	0.023	ug/L	4		8081B/8082A	Total/NA
Dieldrin - DL	0.25	J D	0.40	0.036	ug/L	4		8081B/8082A	Total/NA
Endrin ketone - DL	0.25	J D	0.40	0.033	ug/L	4		8081B/8082A	Total/NA

Client Sample ID: Effluent — Lab Sample ID: 680-73393-4

No Detections

Client Sample ID: MW-40L — Lab Sample ID: 680-73393-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
alpha-BHC	0.54		0.048	0.0054	ug/L	1		8081B/8082A	Total/NA
beta-BHC	0.93	E	0.048	0.0064	ug/L	1		8081B/8082A	Total/NA
delta-BHC	1.9	E	0.048	0.0046	ug/L	1		8081B/8082A	Total/NA
gamma-BHC (Lindane)	0.084		0.048	0.0056	ug/L	1		8081B/8082A	Total/NA
Dieldrin	0.019	J p	0.095	0.0087	ug/L	1		8081B/8082A	Total/NA
Endrin ketone	0.062	J p	0.095	0.0080	ug/L	1		8081B/8082A	Total/NA
alpha-BHC - DL	0.53	D	0.19	0.022	ug/L	4		8081B/8082A	Total/NA
beta-BHC - DL	1.1	D	0.19	0.025	ug/L	4		8081B/8082A	Total/NA
delta-BHC - DL	2.1	D	0.19	0.018	ug/L	4		8081B/8082A	Total/NA
gamma-BHC (Lindane) - DL	0.079	J D	0.19	0.022	ug/L	4		8081B/8082A	Total/NA
Endrin ketone - DL	0.066	J D	0.38	0.032	ug/L	4		8081B/8082A	Total/NA

Client Sample ID: PZ-2 — Lab Sample ID: 680-73393-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
alpha-BHC	0.43		0.050	0.0057	ug/L	1		8081B/8082A	Total/NA
beta-BHC	0.25		0.050	0.0067	ug/L	1		8081B/8082A	Total/NA
delta-BHC	0.34		0.050	0.0048	ug/L	1		8081B/8082A	Total/NA
gamma-BHC (Lindane)	0.28		0.050	0.0059	ug/L	1		8081B/8082A	Total/NA

Detection Summary

Client: Kleinfelder Inc
Project/Site: Geigy Chemical Corp.- GW Annual OCT 2011

TestAmerica Job ID: 680-73393-1

Client Sample ID: MW-38L — Lab Sample ID: 680-73393-7

No Detections

Client Sample ID: MW-39L — Lab Sample ID: 680-73393-8

No Detections

Client Sample ID: PZ-3 — Lab Sample ID: 680-73393-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
alpha-BHC	0.29		0.049	0.0056	ug/L	1		8081B/8082A	Total/NA
beta-BHC	0.11	p	0.049	0.0066	ug/L	1		8081B/8082A	Total/NA
delta-BHC	0.19		0.049	0.0047	ug/L	1		8081B/8082A	Total/NA
gamma-BHC (Lindane)	0.20		0.049	0.0058	ug/L	1		8081B/8082A	Total/NA

Client Sample ID: Trip Blank — Lab Sample ID: 680-73393-10

No Detections

Client Sample Results

Client: Kleinfelder Inc
Project/Site: Geigy Chemical Corp.- GW Annual OCT 2011

TestAmerica Job ID: 680-73393-1

Client Sample ID: Carbon A-2

Date Collected: 10/13/11 14:07
Date Received: 10/14/11 09:27

Lab Sample ID: 680-73393-1
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	1.0	U	1.0	0.13	ug/L			10/25/11 17:30	1

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*100*		*70 - 130*		*10/25/11 17:30*	*1*
4-Bromofluorobenzene	*100*		*70 - 130*		*10/25/11 17:30*	*1*
Dibromofluoromethane	*98*		*70 - 130*		*10/25/11 17:30*	*1*

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.048	U	0.048	0.0067	ug/L		10/20/11 14:54	10/21/11 19:51	1
alpha-BHC	0.048	U	0.048	0.0054	ug/L		10/20/11 14:54	10/21/11 19:51	1
beta-BHC	0.048	U	0.048	0.0064	ug/L		10/20/11 14:54	10/21/11 19:51	1
delta-BHC	0.048	U	0.048	0.0046	ug/L		10/20/11 14:54	10/21/11 19:51	1
gamma-BHC (Lindane)	0.048	U	0.048	0.0056	ug/L		10/20/11 14:54	10/21/11 19:51	1
alpha-Chlordane	0.048	U	0.048	0.0057	ug/L		10/20/11 14:54	10/21/11 19:51	1
gamma-Chlordane	0.048	U	0.048	0.0049	ug/L		10/20/11 14:54	10/21/11 19:51	1
Dieldrin	0.095	U	0.095	0.0087	ug/L		10/20/11 14:54	10/21/11 19:51	1
4,4'-DDD	0.095	U	0.095	0.0062	ug/L		10/20/11 14:54	10/21/11 19:51	1
4,4'-DDE	0.095	U	0.095	0.0073	ug/L		10/20/11 14:54	10/21/11 19:51	1
4,4'-DDT	0.095	U	0.095	0.0093	ug/L		10/20/11 14:54	10/21/11 19:51	1
Endosulfan I	0.048	U	0.048	0.0040	ug/L		10/20/11 14:54	10/21/11 19:51	1
Endosulfan II	0.095	U	0.095	0.0094	ug/L		10/20/11 14:54	10/21/11 19:51	1
Endosulfan sulfate	0.095	U	0.095	0.0065	ug/L		10/20/11 14:54	10/21/11 19:51	1
Endrin	0.095	U	0.095	0.0093	ug/L		10/20/11 14:54	10/21/11 19:51	1
Endrin aldehyde	0.095	U	0.095	0.015	ug/L		10/20/11 14:54	10/21/11 19:51	1
Endrin ketone	0.095	U	0.095	0.0080	ug/L		10/20/11 14:54	10/21/11 19:51	1
Heptachlor	0.048	U	0.048	0.0067	ug/L		10/20/11 14:54	10/21/11 19:51	1
Heptachlor epoxide	0.048	U	0.048	0.0057	ug/L		10/20/11 14:54	10/21/11 19:51	1
Methoxychlor	0.095	U	0.095	0.012	ug/L		10/20/11 14:54	10/21/11 19:51	1
Toxaphene	4.8	U	4.8	0.48	ug/L		10/20/11 14:54	10/21/11 19:51	1

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*68*		*40 - 130*	*10/20/11 14:54*	*10/21/11 19:51*	*1*
DCB Decachlorobiphenyl	*67*		*40 - 130*	*10/20/11 14:54*	*10/21/11 19:51*	*1*
Tetrachloro-m-xylene	*66*		*36 - 130*	*10/20/11 14:54*	*10/21/11 19:51*	*1*
Tetrachloro-m-xylene	*60*		*36 - 130*	*10/20/11 14:54*	*10/21/11 19:51*	*1*

Client Sample Results

Client: Kleinfelder Inc
Project/Site: Geigy Chemical Corp.- GW Annual OCT 2011

TestAmerica Job ID: 680-73393-1

Client Sample ID: Carbon B-1
Date Collected: 10/13/11 13:55
Date Received: 10/14/11 09:27

Lab Sample ID: 680-73393-2
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	0.16	J	1.0	0.13	ug/L			10/25/11 17:56	1

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	100		70 - 130		10/25/11 17:56	1
4-Bromofluorobenzene	100		70 - 130		10/25/11 17:56	1
Dibromofluoromethane	97		70 - 130		10/25/11 17:56	1

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.050	U	0.050	0.0070	ug/L		10/20/11 14:54	10/21/11 20:10	1
alpha-BHC	0.050	U	0.050	0.0057	ug/L		10/20/11 14:54	10/21/11 20:10	1
beta-BHC	0.074		0.050	0.0067	ug/L		10/20/11 14:54	10/21/11 20:10	1
delta-BHC	0.050	U	0.050	0.0048	ug/L		10/20/11 14:54	10/21/11 20:10	1
gamma-BHC (Lindane)	0.050	U	0.050	0.0059	ug/L		10/20/11 14:54	10/21/11 20:10	1
alpha-Chlordane	0.050	U	0.050	0.0060	ug/L		10/20/11 14:54	10/21/11 20:10	1
gamma-Chlordane	0.050	U	0.050	0.0051	ug/L		10/20/11 14:54	10/21/11 20:10	1
Dieldrin	0.099	U	0.099	0.0090	ug/L		10/20/11 14:54	10/21/11 20:10	1
4,4'-DDD	0.099	U	0.099	0.0065	ug/L		10/20/11 14:54	10/21/11 20:10	1
4,4'-DDE	0.099	U	0.099	0.0077	ug/L		10/20/11 14:54	10/21/11 20:10	1
4,4'-DDT	0.099	U	0.099	0.0096	ug/L		10/20/11 14:54	10/21/11 20:10	1
Endosulfan I	0.050	U	0.050	0.0042	ug/L		10/20/11 14:54	10/21/11 20:10	1
Endosulfan II	0.099	U	0.099	0.0097	ug/L		10/20/11 14:54	10/21/11 20:10	1
Endosulfan sulfate	0.099	U	0.099	0.0068	ug/L		10/20/11 14:54	10/21/11 20:10	1
Endrin	0.099	U	0.099	0.0096	ug/L		10/20/11 14:54	10/21/11 20:10	1
Endrin aldehyde	0.099	U	0.099	0.016	ug/L		10/20/11 14:54	10/21/11 20:10	1
Endrin ketone	0.099	U	0.099	0.0083	ug/L		10/20/11 14:54	10/21/11 20:10	1
Heptachlor	0.050	U	0.050	0.0070	ug/L		10/20/11 14:54	10/21/11 20:10	1
Heptachlor epoxide	0.050	U	0.050	0.0060	ug/L		10/20/11 14:54	10/21/11 20:10	1
Methoxychlor	0.099	U	0.099	0.013	ug/L		10/20/11 14:54	10/21/11 20:10	1
Toxaphene	5.0	U	5.0	0.50	ug/L		10/20/11 14:54	10/21/11 20:10	1

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	71		40 - 130	10/20/11 14:54	10/21/11 20:10	1
DCB Decachlorobiphenyl	74		40 - 130	10/20/11 14:54	10/21/11 20:10	1
Tetrachloro-m-xylene	69		36 - 130	10/20/11 14:54	10/21/11 20:10	1
Tetrachloro-m-xylene	67		36 - 130	10/20/11 14:54	10/21/11 20:10	1

Client Sample Results

Client: Kleinfelder Inc
Project/Site: Geigy Chemical Corp.- GW Annual OCT 2011

TestAmerica Job ID: 680-73393-1

Client Sample ID: Influent

Date Collected: 10/13/11 14:13
Date Received: 10/14/11 09:27

Lab Sample ID: 680-73393-3
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	2.0		1.0	0.13	ug/L			10/25/11 18:22	1

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	102		70 - 130		10/25/11 18:22	1
4-Bromofluorobenzene	100		70 - 130		10/25/11 18:22	1
Dibromofluoromethane	97		70 - 130		10/25/11 18:22	1

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.050	U	0.050	0.0069	ug/L		10/20/11 14:54	10/21/11 20:29	1
alpha-BHC	0.071		0.050	0.0056	ug/L		10/20/11 14:54	10/21/11 20:29	1
beta-BHC	2.0	E	0.050	0.0066	ug/L		10/20/11 14:54	10/21/11 20:29	1
delta-BHC	0.60		0.050	0.0048	ug/L		10/20/11 14:54	10/21/11 20:29	1
gamma-BHC (Lindane)	0.11		0.050	0.0058	ug/L		10/20/11 14:54	10/21/11 20:29	1
alpha-Chlordane	0.050	U	0.050	0.0059	ug/L		10/20/11 14:54	10/21/11 20:29	1
gamma-Chlordane	0.050	U	0.050	0.0051	ug/L		10/20/11 14:54	10/21/11 20:29	1
Dieldrin	0.26		0.099	0.0090	ug/L		10/20/11 14:54	10/21/11 20:29	1
4,4'-DDD	0.099	U	0.099	0.0064	ug/L		10/20/11 14:54	10/21/11 20:29	1
4,4'-DDE	0.073	J	0.099	0.0076	ug/L		10/20/11 14:54	10/21/11 20:29	1
4,4'-DDT	0.099	U	0.099	0.0096	ug/L		10/20/11 14:54	10/21/11 20:29	1
Endosulfan I	0.050	U	0.050	0.0042	ug/L		10/20/11 14:54	10/21/11 20:29	1
Endosulfan II	0.099	U	0.099	0.0097	ug/L		10/20/11 14:54	10/21/11 20:29	1
Endosulfan sulfate	0.099	U	0.099	0.0067	ug/L		10/20/11 14:54	10/21/11 20:29	1
Endrin	0.099	U	0.099	0.0096	ug/L		10/20/11 14:54	10/21/11 20:29	1
Endrin aldehyde	0.099	U	0.099	0.016	ug/L		10/20/11 14:54	10/21/11 20:29	1
Endrin ketone	0.25		0.099	0.0083	ug/L		10/20/11 14:54	10/21/11 20:29	1
Heptachlor	0.050	U	0.050	0.0069	ug/L		10/20/11 14:54	10/21/11 20:29	1
Heptachlor epoxide	0.050	U	0.050	0.0059	ug/L		10/20/11 14:54	10/21/11 20:29	1
Methoxychlor	0.099	U	0.099	0.013	ug/L		10/20/11 14:54	10/21/11 20:29	1
Toxaphene	1.4	J p	5.0	0.50	ug/L		10/20/11 14:54	10/21/11 20:29	1

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	69		40 - 130	10/20/11 14:54	10/21/11 20:29	1
DCB Decachlorobiphenyl	77		40 - 130	10/20/11 14:54	10/21/11 20:29	1
Tetrachloro-m-xylene	65		36 - 130	10/20/11 14:54	10/21/11 20:29	1
Tetrachloro-m-xylene	70		36 - 130	10/20/11 14:54	10/21/11 20:29	1

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.20	U	0.20	0.028	ug/L		10/20/11 14:54	10/25/11 15:56	4
alpha-BHC	0.066	J D	0.20	0.023	ug/L		10/20/11 14:54	10/25/11 15:56	4
beta-BHC	2.4	D	0.20	0.027	ug/L		10/20/11 14:54	10/25/11 15:56	4
delta-BHC	0.69	D	0.20	0.019	ug/L		10/20/11 14:54	10/25/11 15:56	4
gamma-BHC (Lindane)	0.057	J D	0.20	0.023	ug/L		10/20/11 14:54	10/25/11 15:56	4
alpha-Chlordane	0.20	U	0.20	0.024	ug/L		10/20/11 14:54	10/25/11 15:56	4
gamma-Chlordane	0.20	U	0.20	0.020	ug/L		10/20/11 14:54	10/25/11 15:56	4
Dieldrin	0.25	J D	0.40	0.036	ug/L		10/20/11 14:54	10/25/11 15:56	4
4,4'-DDD	0.40	U	0.40	0.026	ug/L		10/20/11 14:54	10/25/11 15:56	4
4,4'-DDE	0.40	U	0.40	0.030	ug/L		10/20/11 14:54	10/25/11 15:56	4
4,4'-DDT	0.40	U	0.40	0.038	ug/L		10/20/11 14:54	10/25/11 15:56	4
Endosulfan I	0.20	U	0.20	0.017	ug/L		10/20/11 14:54	10/25/11 15:56	4

Client Sample Results

Client: Kleinfelder Inc
Project/Site: Geigy Chemical Corp.- GW Annual OCT 2011

TestAmerica Job ID: 680-73393-1

Client Sample ID: Influent
Date Collected: 10/13/11 14:13
Date Received: 10/14/11 09:27

Lab Sample ID: 680-73393-3
Matrix: Water

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography - DL (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Endosulfan II	0.40	U	0.40	0.039	ug/L		10/20/11 14:54	10/25/11 15:56	4
Endosulfan sulfate	0.40	U	0.40	0.027	ug/L		10/20/11 14:54	10/25/11 15:56	4
Endrin	0.40	U	0.40	0.038	ug/L		10/20/11 14:54	10/25/11 15:56	4
Endrin aldehyde	0.40	U	0.40	0.063	ug/L		10/20/11 14:54	10/25/11 15:56	4
Endrin ketone	0.25	J D	0.40	0.033	ug/L		10/20/11 14:54	10/25/11 15:56	4
Heptachlor	0.20	U	0.20	0.028	ug/L		10/20/11 14:54	10/25/11 15:56	4
Heptachlor epoxide	0.20	U	0.20	0.024	ug/L		10/20/11 14:54	10/25/11 15:56	4
Methoxychlor	0.40	U	0.40	0.051	ug/L		10/20/11 14:54	10/25/11 15:56	4
Toxaphene	20	U	20	2.0	ug/L		10/20/11 14:54	10/25/11 15:56	4

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*92*		*40 - 130*	*10/20/11 14:54*	*10/25/11 15:56*	*4*
DCB Decachlorobiphenyl	*85*		*40 - 130*	*10/20/11 14:54*	*10/25/11 15:56*	*4*
Tetrachloro-m-xylene	*72*		*36 - 130*	*10/20/11 14:54*	*10/25/11 15:56*	*4*
Tetrachloro-m-xylene	*72*		*36 - 130*	*10/20/11 14:54*	*10/25/11 15:56*	*4*

Client Sample Results

Client: Kleinfelder Inc
Project/Site: Geigy Chemical Corp.- GW Annual OCT 2011

TestAmerica Job ID: 680-73393-1

Client Sample ID: Effluent

Date Collected: 10/13/11 14:21
Date Received: 10/14/11 09:27

Lab Sample ID: 680-73393-4
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	1.0	U	1.0	0.13	ug/L			10/25/11 18:49	1

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	100		70 - 130		10/25/11 18:49	1
4-Bromofluorobenzene	98		70 - 130		10/25/11 18:49	1
Dibromofluoromethane	95		70 - 130		10/25/11 18:49	1

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.048	U	0.048	0.0067	ug/L		10/20/11 14:54	10/21/11 20:47	1
alpha-BHC	0.048	U	0.048	0.0055	ug/L		10/20/11 14:54	10/21/11 20:47	1
beta-BHC	0.048	U	0.048	0.0065	ug/L		10/20/11 14:54	10/21/11 20:47	1
delta-BHC	0.048	U	0.048	0.0046	ug/L		10/20/11 14:54	10/21/11 20:47	1
gamma-BHC (Lindane)	0.048	U	0.048	0.0057	ug/L		10/20/11 14:54	10/21/11 20:47	1
alpha-Chlordane	0.048	U	0.048	0.0058	ug/L		10/20/11 14:54	10/21/11 20:47	1
gamma-Chlordane	0.048	U	0.048	0.0049	ug/L		10/20/11 14:54	10/21/11 20:47	1
Dieldrin	0.096	U	0.096	0.0088	ug/L		10/20/11 14:54	10/21/11 20:47	1
4,4'-DDD	0.096	U	0.096	0.0063	ug/L		10/20/11 14:54	10/21/11 20:47	1
4,4'-DDE	0.096	U	0.096	0.0074	ug/L		10/20/11 14:54	10/21/11 20:47	1
4,4'-DDT	0.096	U	0.096	0.0093	ug/L		10/20/11 14:54	10/21/11 20:47	1
Endosulfan I	0.048	U	0.048	0.0040	ug/L		10/20/11 14:54	10/21/11 20:47	1
Endosulfan II	0.096	U	0.096	0.0094	ug/L		10/20/11 14:54	10/21/11 20:47	1
Endosulfan sulfate	0.096	U	0.096	0.0066	ug/L		10/20/11 14:54	10/21/11 20:47	1
Endrin	0.096	U	0.096	0.0093	ug/L		10/20/11 14:54	10/21/11 20:47	1
Endrin aldehyde	0.096	U	0.096	0.015	ug/L		10/20/11 14:54	10/21/11 20:47	1
Endrin ketone	0.096	U	0.096	0.0081	ug/L		10/20/11 14:54	10/21/11 20:47	1
Heptachlor	0.048	U	0.048	0.0067	ug/L		10/20/11 14:54	10/21/11 20:47	1
Heptachlor epoxide	0.048	U	0.048	0.0058	ug/L		10/20/11 14:54	10/21/11 20:47	1
Methoxychlor	0.096	U	0.096	0.013	ug/L		10/20/11 14:54	10/21/11 20:47	1
Toxaphene	4.8	U	4.8	0.48	ug/L		10/20/11 14:54	10/21/11 20:47	1

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	69		40 - 130	10/20/11 14:54	10/21/11 20:47	1
DCB Decachlorobiphenyl	70		40 - 130	10/20/11 14:54	10/21/11 20:47	1
Tetrachloro-m-xylene	66		36 - 130	10/20/11 14:54	10/21/11 20:47	1
Tetrachloro-m-xylene	61		36 - 130	10/20/11 14:54	10/21/11 20:47	1

Client Sample Results

Client: Kleinfelder Inc
Project/Site: Geigy Chemical Corp.- GW Annual OCT 2011

TestAmerica Job ID: 680-73393-1

Client Sample ID: MW-40L
Date Collected: 10/13/11 12:23
Date Received: 10/14/11 09:27

Lab Sample ID: 680-73393-5
Matrix: Water

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.048	U	0.048	0.0067	ug/L		10/20/11 14:54	10/21/11 21:06	1
alpha-BHC	0.54		0.048	0.0054	ug/L		10/20/11 14:54	10/21/11 21:06	1
beta-BHC	0.93	E	0.048	0.0064	ug/L		10/20/11 14:54	10/21/11 21:06	1
delta-BHC	1.9	E	0.048	0.0046	ug/L		10/20/11 14:54	10/21/11 21:06	1
gamma-BHC (Lindane)	0.084		0.048	0.0056	ug/L		10/20/11 14:54	10/21/11 21:06	1
alpha-Chlordane	0.048	U	0.048	0.0057	ug/L		10/20/11 14:54	10/21/11 21:06	1
gamma-Chlordane	0.048	U	0.048	0.0048	ug/L		10/20/11 14:54	10/21/11 21:06	1
Dieldrin	0.019	J p	0.095	0.0087	ug/L		10/20/11 14:54	10/21/11 21:06	1
4,4'-DDD	0.095	U	0.095	0.0062	ug/L		10/20/11 14:54	10/21/11 21:06	1
4,4'-DDE	0.095	U	0.095	0.0073	ug/L		10/20/11 14:54	10/21/11 21:06	1
4,4'-DDT	0.095	U	0.095	0.0092	ug/L		10/20/11 14:54	10/21/11 21:06	1
Endosulfan I	0.048	U	0.048	0.0040	ug/L		10/20/11 14:54	10/21/11 21:06	1
Endosulfan II	0.095	U	0.095	0.0093	ug/L		10/20/11 14:54	10/21/11 21:06	1
Endosulfan sulfate	0.095	U	0.095	0.0065	ug/L		10/20/11 14:54	10/21/11 21:06	1
Endrin	0.095	U	0.095	0.0092	ug/L		10/20/11 14:54	10/21/11 21:06	1
Endrin aldehyde	0.095	U	0.095	0.015	ug/L		10/20/11 14:54	10/21/11 21:06	1
Endrin ketone	0.062	J p	0.095	0.0080	ug/L		10/20/11 14:54	10/21/11 21:06	1
Heptachlor	0.048	U	0.048	0.0067	ug/L		10/20/11 14:54	10/21/11 21:06	1
Heptachlor epoxide	0.048	U	0.048	0.0057	ug/L		10/20/11 14:54	10/21/11 21:06	1
Methoxychlor	0.095	U	0.095	0.012	ug/L		10/20/11 14:54	10/21/11 21:06	1
Toxaphene	4.8	U	4.8	0.48	ug/L		10/20/11 14:54	10/21/11 21:06	1

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*31*	*X*	*40 - 130*	*10/20/11 14:54*	*10/21/11 21:06*	*1*
DCB Decachlorobiphenyl	*30*	*X*	*40 - 130*	*10/20/11 14:54*	*10/21/11 21:06*	*1*
Tetrachloro-m-xylene	*62*		*36 - 130*	*10/20/11 14:54*	*10/21/11 21:06*	*1*
Tetrachloro-m-xylene	*59*		*36 - 130*	*10/20/11 14:54*	*10/21/11 21:06*	*1*

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.19	U	0.19	0.027	ug/L		10/20/11 14:54	10/25/11 16:25	4
alpha-BHC	0.53	D	0.19	0.022	ug/L		10/20/11 14:54	10/25/11 16:25	4
beta-BHC	1.1	D	0.19	0.025	ug/L		10/20/11 14:54	10/25/11 16:25	4
delta-BHC	2.1	D	0.19	0.018	ug/L		10/20/11 14:54	10/25/11 16:25	4
gamma-BHC (Lindane)	0.079	J D	0.19	0.022	ug/L		10/20/11 14:54	10/25/11 16:25	4
alpha-Chlordane	0.19	U	0.19	0.023	ug/L		10/20/11 14:54	10/25/11 16:25	4
gamma-Chlordane	0.19	U	0.19	0.019	ug/L		10/20/11 14:54	10/25/11 16:25	4
Dieldrin	0.38	U	0.38	0.035	ug/L		10/20/11 14:54	10/25/11 16:25	4
4,4'-DDD	0.38	U	0.38	0.025	ug/L		10/20/11 14:54	10/25/11 16:25	4
4,4'-DDE	0.38	U	0.38	0.029	ug/L		10/20/11 14:54	10/25/11 16:25	4
4,4'-DDT	0.38	U	0.38	0.037	ug/L		10/20/11 14:54	10/25/11 16:25	4
Endosulfan I	0.19	U	0.19	0.016	ug/L		10/20/11 14:54	10/25/11 16:25	4
Endosulfan II	0.38	U	0.38	0.037	ug/L		10/20/11 14:54	10/25/11 16:25	4
Endosulfan sulfate	0.38	U	0.38	0.026	ug/L		10/20/11 14:54	10/25/11 16:25	4
Endrin	0.38	U	0.38	0.037	ug/L		10/20/11 14:54	10/25/11 16:25	4
Endrin aldehyde	0.38	U	0.38	0.061	ug/L		10/20/11 14:54	10/25/11 16:25	4
Endrin ketone	0.066	J D	0.38	0.032	ug/L		10/20/11 14:54	10/25/11 16:25	4
Heptachlor	0.19	U	0.19	0.027	ug/L		10/20/11 14:54	10/25/11 16:25	4
Heptachlor epoxide	0.19	U	0.19	0.023	ug/L		10/20/11 14:54	10/25/11 16:25	4
Methoxychlor	0.38	U	0.38	0.049	ug/L		10/20/11 14:54	10/25/11 16:25	4

Client Sample Results

Client: Kleinfelder Inc
Project/Site: Geigy Chemical Corp.- GW Annual OCT 2011

TestAmerica Job ID: 680-73393-1

Client Sample ID: MW-40L
Date Collected: 10/13/11 12:23
Date Received: 10/14/11 09:27

Lab Sample ID: 680-73393-5
Matrix: Water

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography - DL (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toxaphene	19	U	19	1.9	ug/L		10/20/11 14:54	10/25/11 16:25	4

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*31*	*X*	*40 - 130*	*10/20/11 14:54*	*10/25/11 16:25*	*4*
DCB Decachlorobiphenyl	*32*	*X*	*40 - 130*	*10/20/11 14:54*	*10/25/11 16:25*	*4*
Tetrachloro-m-xylene	*62*		*36 - 130*	*10/20/11 14:54*	*10/25/11 16:25*	*4*
Tetrachloro-m-xylene	*65*		*36 - 130*	*10/20/11 14:54*	*10/25/11 16:25*	*4*

Client Sample Results

Client: Kleinfelder Inc
Project/Site: Geigy Chemical Corp.- GW Annual OCT 2011

TestAmerica Job ID: 680-73393-1

Client Sample ID: PZ-2
Date Collected: 10/13/11 10:48
Date Received: 10/14/11 09:27

Lab Sample ID: 680-73393-6
Matrix: Water

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.050	U	0.050	0.0070	ug/L		10/20/11 14:54	10/21/11 21:25	1
alpha-BHC	0.43		0.050	0.0057	ug/L		10/20/11 14:54	10/21/11 21:25	1
beta-BHC	0.25		0.050	0.0067	ug/L		10/20/11 14:54	10/21/11 21:25	1
delta-BHC	0.34		0.050	0.0048	ug/L		10/20/11 14:54	10/21/11 21:25	1
gamma-BHC (Lindane)	0.28		0.050	0.0059	ug/L		10/20/11 14:54	10/21/11 21:25	1
alpha-Chlordane	0.050	U	0.050	0.0060	ug/L		10/20/11 14:54	10/21/11 21:25	1
gamma-Chlordane	0.050	U	0.050	0.0051	ug/L		10/20/11 14:54	10/21/11 21:25	1
Dieldrin	0.10	U	0.10	0.0091	ug/L		10/20/11 14:54	10/21/11 21:25	1
4,4'-DDD	0.10	U	0.10	0.0065	ug/L		10/20/11 14:54	10/21/11 21:25	1
4,4'-DDE	0.10	U	0.10	0.0077	ug/L		10/20/11 14:54	10/21/11 21:25	1
4,4'-DDT	0.10	U	0.10	0.0097	ug/L		10/20/11 14:54	10/21/11 21:25	1
Endosulfan I	0.050	U	0.050	0.0042	ug/L		10/20/11 14:54	10/21/11 21:25	1
Endosulfan II	0.10	U	0.10	0.0098	ug/L		10/20/11 14:54	10/21/11 21:25	1
Endosulfan sulfate	0.10	U	0.10	0.0068	ug/L		10/20/11 14:54	10/21/11 21:25	1
Endrin	0.10	U	0.10	0.0097	ug/L		10/20/11 14:54	10/21/11 21:25	1
Endrin aldehyde	0.10	U	0.10	0.016	ug/L		10/20/11 14:54	10/21/11 21:25	1
Endrin ketone	0.10	U	0.10	0.0084	ug/L		10/20/11 14:54	10/21/11 21:25	1
Heptachlor	0.050	U	0.050	0.0070	ug/L		10/20/11 14:54	10/21/11 21:25	1
Heptachlor epoxide	0.050	U	0.050	0.0060	ug/L		10/20/11 14:54	10/21/11 21:25	1
Methoxychlor	0.10	U	0.10	0.013	ug/L		10/20/11 14:54	10/21/11 21:25	1
Toxaphene	5.0	U	5.0	0.50	ug/L		10/20/11 14:54	10/21/11 21:25	1

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*39*	*X*	*40 - 130*	*10/20/11 14:54*	*10/21/11 21:25*	*1*
DCB Decachlorobiphenyl	*44*		*40 - 130*	*10/20/11 14:54*	*10/21/11 21:25*	*1*
Tetrachloro-m-xylene	*78*		*36 - 130*	*10/20/11 14:54*	*10/21/11 21:25*	*1*
Tetrachloro-m-xylene	*72*		*36 - 130*	*10/20/11 14:54*	*10/21/11 21:25*	*1*

Client Sample Results

Client: Kleinfelder Inc
Project/Site: Geigy Chemical Corp.- GW Annual OCT 2011

TestAmerica Job ID: 680-73393-1

Client Sample ID: MW-38L
Date Collected: 10/13/11 10:13
Date Received: 10/14/11 09:27

Lab Sample ID: 680-73393-7
Matrix: Water

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.050	U	0.050	0.0070	ug/L		10/20/11 14:54	10/21/11 21:44	1
alpha-BHC	0.050	U	0.050	0.0057	ug/L		10/20/11 14:54	10/21/11 21:44	1
beta-BHC	0.050	U	0.050	0.0067	ug/L		10/20/11 14:54	10/21/11 21:44	1
delta-BHC	0.050	U	0.050	0.0048	ug/L		10/20/11 14:54	10/21/11 21:44	1
gamma-BHC (Lindane)	0.050	U	0.050	0.0059	ug/L		10/20/11 14:54	10/21/11 21:44	1
alpha-Chlordane	0.050	U	0.050	0.0060	ug/L		10/20/11 14:54	10/21/11 21:44	1
gamma-Chlordane	0.050	U	0.050	0.0051	ug/L		10/20/11 14:54	10/21/11 21:44	1
Dieldrin	0.10	U	0.10	0.0091	ug/L		10/20/11 14:54	10/21/11 21:44	1
4,4'-DDD	0.10	U	0.10	0.0065	ug/L		10/20/11 14:54	10/21/11 21:44	1
4,4'-DDE	0.10	U	0.10	0.0077	ug/L		10/20/11 14:54	10/21/11 21:44	1
4,4'-DDT	0.10	U	0.10	0.0097	ug/L		10/20/11 14:54	10/21/11 21:44	1
Endosulfan I	0.050	U	0.050	0.0042	ug/L		10/20/11 14:54	10/21/11 21:44	1
Endosulfan II	0.10	U	0.10	0.0096	ug/L		10/20/11 14:54	10/21/11 21:44	1
Endosulfan sulfate	0.10	U	0.10	0.0068	ug/L		10/20/11 14:54	10/21/11 21:44	1
Endrin	0.10	U	0.10	0.0097	ug/L		10/20/11 14:54	10/21/11 21:44	1
Endrin aldehyde	0.10	U	0.10	0.016	ug/L		10/20/11 14:54	10/21/11 21:44	1
Endrin ketone	0.10	U	0.10	0.0084	ug/L		10/20/11 14:54	10/21/11 21:44	1
Heptachlor	0.050	U	0.050	0.0070	ug/L		10/20/11 14:54	10/21/11 21:44	1
Heptachlor epoxide	0.050	U	0.050	0.0060	ug/L		10/20/11 14:54	10/21/11 21:44	1
Methoxychlor	0.10	U	0.10	0.013	ug/L		10/20/11 14:54	10/21/11 21:44	1
Toxaphene	5.0	U	5.0	0.50	ug/L		10/20/11 14:54	10/21/11 21:44	1

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*25*	*X*	*40 - 130*	*10/20/11 14:54*	*10/21/11 21:44*	*1*
DCB Decachlorobiphenyl	*26*	*X*	*40 - 130*	*10/20/11 14:54*	*10/21/11 21:44*	*1*
Tetrachloro-m-xylene	*69*		*36 - 130*	*10/20/11 14:54*	*10/21/11 21:44*	*1*
Tetrachloro-m-xylene	*64*		*36 - 130*	*10/20/11 14:54*	*10/21/11 21:44*	*1*

Client Sample Results

Client: Kleinfelder Inc
Project/Site: Geigy Chemical Corp.- GW Annual OCT 2011

TestAmerica Job ID: 680-73393-1

Client Sample ID: MW-39L
Date Collected: 10/13/11 09:35
Date Received: 10/14/11 09:27

Lab Sample ID: 680-73393-8
Matrix: Water

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.048	U	0.048	0.0068	ug/L		10/20/11 14:54	10/21/11 22:03	1
alpha-BHC	0.048	U	0.048	0.0055	ug/L		10/20/11 14:54	10/21/11 22:03	1
beta-BHC	0.048	U	0.048	0.0065	ug/L		10/20/11 14:54	10/21/11 22:03	1
delta-BHC	0.048	U	0.048	0.0046	ug/L		10/20/11 14:54	10/21/11 22:03	1
gamma-BHC (Lindane)	0.048	U	0.048	0.0057	ug/L		10/20/11 14:54	10/21/11 22:03	1
alpha-Chlordane	0.048	U	0.048	0.0058	ug/L		10/20/11 14:54	10/21/11 22:03	1
gamma-Chlordane	0.048	U	0.048	0.0049	ug/L		10/20/11 14:54	10/21/11 22:03	1
Dieldrin	0.097	U	0.097	0.0088	ug/L		10/20/11 14:54	10/21/11 22:03	1
4,4'-DDD	0.097	U	0.097	0.0063	ug/L		10/20/11 14:54	10/21/11 22:03	1
4,4'-DDE	0.097	U	0.097	0.0074	ug/L		10/20/11 14:54	10/21/11 22:03	1
4,4'-DDT	0.097	U	0.097	0.0094	ug/L		10/20/11 14:54	10/21/11 22:03	1
Endosulfan I	0.048	U	0.048	0.0041	ug/L		10/20/11 14:54	10/21/11 22:03	1
Endosulfan II	0.097	U	0.097	0.0095	ug/L		10/20/11 14:54	10/21/11 22:03	1
Endosulfan sulfate	0.097	U	0.097	0.0066	ug/L		10/20/11 14:54	10/21/11 22:03	1
Endrin	0.097	U	0.097	0.0094	ug/L		10/20/11 14:54	10/21/11 22:03	1
Endrin aldehyde	0.097	U	0.097	0.015	ug/L		10/20/11 14:54	10/21/11 22:03	1
Endrin ketone	0.097	U	0.097	0.0081	ug/L		10/20/11 14:54	10/21/11 22:03	1
Heptachlor	0.048	U	0.048	0.0068	ug/L		10/20/11 14:54	10/21/11 22:03	1
Heptachlor epoxide	0.048	U	0.048	0.0058	ug/L		10/20/11 14:54	10/21/11 22:03	1
Methoxychlor	0.097	U	0.097	0.013	ug/L		10/20/11 14:54	10/21/11 22:03	1
Toxaphene	4.8	U	4.8	0.48	ug/L		10/20/11 14:54	10/21/11 22:03	1

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	*70*		*40 - 130*	*10/20/11 14:54*	*10/21/11 22:03*	*1*
DCB Decachlorobiphenyl	*63*		*40 - 130*	*10/20/11 14:54*	*10/21/11 22:03*	*1*
Tetrachloro-m-xylene	*70*		*36 - 130*	*10/20/11 14:54*	*10/21/11 22:03*	*1*
Tetrachloro-m-xylene	*61*		*36 - 130*	*10/20/11 14:54*	*10/21/11 22:03*	*1*

Client Sample Results

Client: Kleinfelder Inc
Project/Site: Geigy Chemical Corp.- GW Annual OCT 2011

TestAmerica Job ID: 680-73393-1

Client Sample ID: PZ-3
Date Collected: 10/13/11 11:23
Date Received: 10/14/11 09:27

Lab Sample ID: 680-73393-9
Matrix: Water

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.049	U	0.049	0.0069	ug/L		10/20/11 14:54	10/21/11 22:22	1
alpha-BHC	0.29		0.049	0.0056	ug/L		10/20/11 14:54	10/21/11 22:22	1
beta-BHC	0.11	p	0.049	0.0066	ug/L		10/20/11 14:54	10/21/11 22:22	1
delta-BHC	0.19		0.049	0.0047	ug/L		10/20/11 14:54	10/21/11 22:22	1
gamma-BHC (Lindane)	0.20		0.049	0.0058	ug/L		10/20/11 14:54	10/21/11 22:22	1
alpha-Chlordane	0.049	U	0.049	0.0059	ug/L		10/20/11 14:54	10/21/11 22:22	1
gamma-Chlordane	0.049	U	0.049	0.0050	ug/L		10/20/11 14:54	10/21/11 22:22	1
Dieldrin	0.098	U	0.098	0.0089	ug/L		10/20/11 14:54	10/21/11 22:22	1
4,4'-DDD	0.098	U	0.098	0.0064	ug/L		10/20/11 14:54	10/21/11 22:22	1
4,4'-DDE	0.098	U	0.098	0.0075	ug/L		10/20/11 14:54	10/21/11 22:22	1
4,4'-DDT	0.098	U	0.098	0.0095	ug/L		10/20/11 14:54	10/21/11 22:22	1
Endosulfan I	0.049	U	0.049	0.0041	ug/L		10/20/11 14:54	10/21/11 22:22	1
Endosulfan II	0.098	U	0.098	0.0096	ug/L		10/20/11 14:54	10/21/11 22:22	1
Endosulfan sulfate	0.098	U	0.098	0.0067	ug/L		10/20/11 14:54	10/21/11 22:22	1
Endrin	0.098	U	0.098	0.0095	ug/L		10/20/11 14:54	10/21/11 22:22	1
Endrin aldehyde	0.098	U	0.098	0.016	ug/L		10/20/11 14:54	10/21/11 22:22	1
Endrin ketone	0.098	U	0.098	0.0082	ug/L		10/20/11 14:54	10/21/11 22:22	1
Heptachlor	0.049	U	0.049	0.0069	ug/L		10/20/11 14:54	10/21/11 22:22	1
Heptachlor epoxide	0.049	U	0.049	0.0059	ug/L		10/20/11 14:54	10/21/11 22:22	1
Methoxychlor	0.098	U	0.098	0.013	ug/L		10/20/11 14:54	10/21/11 22:22	1
Toxaphene	4.9	U	4.9	0.49	ug/L		10/20/11 14:54	10/21/11 22:22	1

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*58*		*40 - 130*	*10/20/11 14:54*	*10/21/11 22:22*	*1*
DCB Decachlorobiphenyl	*60*		*40 - 130*	*10/20/11 14:54*	*10/21/11 22:22*	*1*
Tetrachloro-m-xylene	*60*		*36 - 130*	*10/20/11 14:54*	*10/21/11 22:22*	*1*
Tetrachloro-m-xylene	*57*		*36 - 130*	*10/20/11 14:54*	*10/21/11 22:22*	*1*

Client Sample Results

Client: Kleinfelder Inc
Project/Site: Geigy Chemical Corp.- GW Annual OCT 2011

TestAmerica Job ID: 680-73393-1

Client Sample ID: Trip Blank

Date Collected: 10/13/11 00:00
Date Received: 10/14/11 09:27

Lab Sample ID: 680-73393-10
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	1.0	U	1.0	0.13	ug/L			10/25/11 13:34	1

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	99		70 - 130		10/25/11 13:34	1
4-Bromofluorobenzene	99		70 - 130		10/25/11 13:34	1
Dibromofluoromethane	98		70 - 130		10/25/11 13:34	1

Surrogate Summary

Client: Kleinfelder Inc
Project/Site: Geigy Chemical Corp.- GW Annual OCT 2011

TestAmerica Job ID: 680-73393-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)		
Lab Sample ID	Client Sample ID	TOL (70-130)	BFB (70-130)	DBFM (70-130)
680-73393-1	Carbon A-2	100	100	98
680-73393-2	Carbon B-1	100	100	97
680-73393-3	Influent	102	100	97
680-73393-4	Effluent	100	98	95
680-73393-10	Trip Blank	99	99	98
LCS 680-218855/2	Lab Control Sample	99	99	99
LCSD 680-218855/7	Lab Control Sample Dup	94	96	92
MB 680-218855/8	Method Blank	100	99	98

Surrogate Legend

TOL = Toluene-d8 (Surr)
BFB = 4-Bromofluorobenzene
DBFM = Dibromofluoromethane

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
Lab Sample ID	Client Sample ID	DCB1 (40-130)	DCB2 (40-130)	TCX1 (36-130)	TCX2 (36-130)
680-73393-1	Carbon A-2	68	67	66	60
680-73393-2	Carbon B-1	71	74	69	67
680-73393-3	Influent	69	77	65	70
680-73393-3 - DL	Influent	92	85	72	72
680-73393-4	Effluent	69	70	66	61
680-73393-5	MW-40L	31 X	30 X	62	59
680-73393-5 - DL	MW-40L	31 X	32 X	62	65
680-73393-6	PZ-2	39 X	44	78	72
680-73393-7	MW-38L	25 X	26 X	69	64
680-73393-8	MW-39L	70	63	70	61
680-73393-9	PZ-3	58	60	60	57
680-73393-9 MS	PZ-3	67	67	63	59
680-73393-9 MSD	PZ-3	56	56	64	59
LCS 680-218292/15-A	Lab Control Sample	35 X	35 X	69	67
MB 680-218292/14-A	Method Blank	50	48	76	76

Surrogate Legend

DCB = DCB Decachlorobiphenyl
TCX = Tetrachloro-m-xylene

QC Sample Results

Client: Kleinfelder Inc
Project/Site: Geigy Chemical Corp.- GW Annual OCT 2011

TestAmerica Job ID: 680-73393-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 680-218855/8
Matrix: Water
Analysis Batch: 218855

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	1.0	U	1.0	0.13	ug/L			10/25/11 10:48	1

Surrogate	MB % Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	100		70 - 130		10/25/11 10:48	1
4-Bromofluorobenzene	99		70 - 130		10/25/11 10:48	1
Dibromofluoromethane	98		70 - 130		10/25/11 10:48	1

Lab Sample ID: LCS 680-218855/2
Matrix: Water
Analysis Batch: 218855

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Trichloroethene	50.0	50.4		ug/L		101	70 - 130

Surrogate	LCS % Recovery	LCS Qualifier	Limits
Toluene-d8 (Surr)	99		70 - 130
4-Bromofluorobenzene	99		70 - 130
Dibromofluoromethane	99		70 - 130

Lab Sample ID: LCSD 680-218855/7
Matrix: Water
Analysis Batch: 218855

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Trichloroethene	50.0	47.9		ug/L		96	70 - 130	5	30

Surrogate	LCSD % Recovery	LCSD Qualifier	Limits
Toluene-d8 (Surr)	94		70 - 130
4-Bromofluorobenzene	96		70 - 130
Dibromofluoromethane	92		70 - 130

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Lab Sample ID: MB 680-218292/14-A
Matrix: Water
Analysis Batch: 218807

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 218292

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.050	U	0.050	0.0070	ug/L		10/20/11 14:54	10/21/11 18:54	1
alpha-BHC	0.050	U	0.050	0.0057	ug/L		10/20/11 14:54	10/21/11 18:54	1
beta-BHC	0.050	U	0.050	0.0067	ug/L		10/20/11 14:54	10/21/11 18:54	1
delta-BHC	0.050	U	0.050	0.0048	ug/L		10/20/11 14:54	10/21/11 18:54	1
gamma-BHC (Lindane)	0.050	U	0.050	0.0059	ug/L		10/20/11 14:54	10/21/11 18:54	1
alpha-Chlordane	0.050	U	0.050	0.0060	ug/L		10/20/11 14:54	10/21/11 18:54	1
gamma-Chlordane	0.050	U	0.050	0.0051	ug/L		10/20/11 14:54	10/21/11 18:54	1
Dieldrin	0.10	U	0.10	0.0091	ug/L		10/20/11 14:54	10/21/11 18:54	1
4,4'-DDD	0.10	U	0.10	0.0065	ug/L		10/20/11 14:54	10/21/11 18:54	1

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography (Continued)

Lab Sample ID: MB 680-218292/14-A
Matrix: Water
Analysis Batch: 218807

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 218292

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDE	0.10	U	0.10	0.0077	ug/L		10/20/11 14:54	10/21/11 18:54	1
4,4'-DDT	0.10	U	0.10	0.0097	ug/L		10/20/11 14:54	10/21/11 18:54	1
Endosulfan I	0.050	U	0.050	0.0042	ug/L		10/20/11 14:54	10/21/11 18:54	1
Endosulfan II	0.10	U	0.10	0.0098	ug/L		10/20/11 14:54	10/21/11 18:54	1
Endosulfan sulfate	0.10	U	0.10	0.0068	ug/L		10/20/11 14:54	10/21/11 18:54	1
Endrin	0.10	U	0.10	0.0097	ug/L		10/20/11 14:54	10/21/11 18:54	1
Endrin aldehyde	0.10	U	0.10	0.016	ug/L		10/20/11 14:54	10/21/11 18:54	1
Endrin ketone	0.10	U	0.10	0.0084	ug/L		10/20/11 14:54	10/21/11 18:54	1
Heptachlor	0.050	U	0.050	0.0070	ug/L		10/20/11 14:54	10/21/11 18:54	1
Heptachlor epoxide	0.050	U	0.050	0.0060	ug/L		10/20/11 14:54	10/21/11 18:54	1
Methoxychlor	0.10	U	0.10	0.013	ug/L		10/20/11 14:54	10/21/11 18:54	1
Toxaphene	5.0	U	5.0	0.50	ug/L		10/20/11 14:54	10/21/11 18:54	1

Surrogate	*MB % Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*50*		*40 - 130*	*10/20/11 14:54*	*10/21/11 18:54*	*1*
DCB Decachlorobiphenyl	*48*		*40 - 130*	*10/20/11 14:54*	*10/21/11 18:54*	*1*
Tetrachloro-m-xylene	*76*		*36 - 130*	*10/20/11 14:54*	*10/21/11 18:54*	*1*
Tetrachloro-m-xylene	*76*		*36 - 130*	*10/20/11 14:54*	*10/21/11 18:54*	*1*

Lab Sample ID: LCS 680-218292/15-A
Matrix: Water
Analysis Batch: 218807

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 218292

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Aldrin	0.100	0.0857		ug/L		86	14 - 168
alpha-BHC	0.100	0.0851		ug/L		85	43 - 138
beta-BHC	0.100	0.0950		ug/L		95	38 - 158
delta-BHC	0.100	0.105		ug/L		105	23 - 191
gamma-BHC (Lindane)	0.100	0.0905		ug/L		91	54 - 134
alpha-Chlordane	0.100	0.0933		ug/L		93	60 - 130
gamma-Chlordane	0.100	0.0924		ug/L		92	50 - 145
Dieldrin	0.200	0.193		ug/L		96	61 - 136
4,4'-DDD	0.200	0.200		ug/L		100	49 - 144
4,4'-DDE	0.200	0.181		ug/L		90	46 - 144
4,4'-DDT	0.200	0.222		ug/L		111	48 - 166
Endosulfan I	0.100	0.0940		ug/L		94	52 - 141
Endosulfan II	0.200	0.196		ug/L		98	60 - 140
Endosulfan sulfate	0.200	0.216		ug/L		108	60 - 151
Endrin	0.200	0.225		ug/L		112	66 - 150
Endrin aldehyde	0.200	0.209		ug/L		105	16 - 200
Endrin ketone	0.200	0.227		ug/L		113	55 - 156
Heptachlor	0.100	0.106		ug/L		106	10 - 200
Heptachlor epoxide	0.100	0.0941		ug/L		94	49 - 142
Methoxychlor	0.200	0.225		ug/L		112	13 - 186

Surrogate	*LCS % Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*35*	*X*	*40 - 130*
DCB Decachlorobiphenyl	*35*	*X*	*40 - 130*

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography (Continued)

Lab Sample ID: LCS 680-218292/15-A
Matrix: Water
Analysis Batch: 218807

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 218292

Surrogate	LCS % Recovery	LCS Qualifier	Limits
Tetrachloro-m-xylene	69		36 - 130
Tetrachloro-m-xylene	67		36 - 130

Lab Sample ID: 680-73393-9 MS
Matrix: Water
Analysis Batch: 218807

Client Sample ID: PZ-3
Prep Type: Total/NA
Prep Batch: 218292

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	% Rec	% Rec. Limits
Aldrin	0.049		0.0985	0.0819		ug/L		83	14 - 168
alpha-BHC	0.29		0.0985	0.348		ug/L		55	43 - 138
beta-BHC	0.11		0.0985	0.187		ug/L		83	38 - 158
delta-BHC	0.19		0.0985	0.262		ug/L		70	23 - 191
gamma-BHC (Lindane)	0.20		0.0985	0.265		ug/L		67	54 - 134
alpha-Chlordane	0.049		0.0985	0.0879		ug/L		89	60 - 130
gamma-Chlordane	0.049		0.0985	0.0806		ug/L		82	50 - 145
Dieldrin	0.098		0.197	0.172		ug/L		87	61 - 136
4,4'-DDD	0.098		0.197	0.171		ug/L		87	49 - 144
4,4'-DDE	0.098		0.197	0.166		ug/L		84	46 - 144
4,4'-DDT	0.098		0.197	0.217		ug/L		110	48 - 166
Endosulfan I	0.049		0.0985	0.0837		ug/L		85	52 - 141
Endosulfan II	0.098		0.197	0.175		ug/L		89	60 - 140
Endosulfan sulfate	0.098		0.197	0.194		ug/L		99	60 - 151
Endrin	0.098		0.197	0.197		ug/L		100	66 - 150
Endrin aldehyde	0.098		0.197	0.181		ug/L		92	16 - 200
Endrin ketone	0.098		0.197	0.230		ug/L		117	55 - 156
Heptachlor	0.049		0.0985	0.100		ug/L		102	10 - 200
Heptachlor epoxide	0.049		0.0985	0.0856		ug/L		87	49 - 142
Methoxychlor	0.098		0.197	0.113	p	ug/L		57	13 - 186

Surrogate	MS % Recovery	MS Qualifier	Limits
DCB Decachlorobiphenyl	67		40 - 130
DCB Decachlorobiphenyl	67		40 - 130
Tetrachloro-m-xylene	63		36 - 130
Tetrachloro-m-xylene	59		36 - 130

Lab Sample ID: 680-73393-9 MSD
Matrix: Water
Analysis Batch: 218807

Client Sample ID: PZ-3
Prep Type: Total/NA
Prep Batch: 218292

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Aldrin	0.049		0.0953	0.0793		ug/L		83	14 - 168	3	50
alpha-BHC	0.29		0.0953	0.351		ug/L		60	43 - 138	1	50
beta-BHC	0.11		0.0953	0.196	p	ug/L		95	38 - 158	5	50
delta-BHC	0.19		0.0953	0.277		ug/L		88	23 - 191	6	50
gamma-BHC (Lindane)	0.20		0.0953	0.274		ug/L		79	54 - 134	3	50
alpha-Chlordane	0.049		0.0953	0.0921		ug/L		97	60 - 130	5	50
gamma-Chlordane	0.049		0.0953	0.0848		ug/L		89	50 - 145	5	50
Dieldrin	0.098		0.191	0.182		ug/L		96	61 - 136	6	50

QC Sample Results

Client: Kleinfelder Inc
Project/Site: Geigy Chemical Corp.- GW Annual OCT 2011

TestAmerica Job ID: 680-73393-1

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography (Continued)

Lab Sample ID: 680-73393-9 MSD
Matrix: Water
Analysis Batch: 218807

Client Sample ID: PZ-3
Prep Type: Total/NA
Prep Batch: 218292

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
4,4'-DDD	0.098		0.191	0.181		ug/L		95	49 - 144	6	50
4,4'-DDE	0.098		0.191	0.168		ug/L		88	46 - 144	1	50
4,4'-DDT	0.098		0.191	0.217		ug/L		114	48 - 166	0	50
Endosulfan I	0.049		0.0953	0.0886		ug/L		93	52 - 141	6	50
Endosulfan II	0.098		0.191	0.184		ug/L		96	60 - 140	5	50
Endosulfan sulfate	0.098		0.191	0.197		ug/L		103	60 - 151	1	50
Endrin	0.098		0.191	0.205		ug/L		108	66 - 150	4	50
Endrin aldehyde	0.098		0.191	0.175		ug/L		92	16 - 200	3	50
Endrin ketone	0.098		0.191	0.240		ug/L		126	55 - 156	4	50
Heptachlor	0.049		0.0953	0.0991		ug/L		104	10 - 200	1	50
Heptachlor epoxide	0.049		0.0953	0.0877		ug/L		92	49 - 142	2	50
Methoxychlor	0.098		0.191	0.112	p	ug/L		59	13 - 186	0	50

Surrogate	*MSD % Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*56*		*40 - 130*
DCB Decachlorobiphenyl	*56*		*40 - 130*
Tetrachloro-m-xylene	*64*		*36 - 130*
Tetrachloro-m-xylene	*59*		*36 - 130*

QC Association Summary

Client: Kleinfelder Inc
Project/Site: Geigy Chemical Corp.- GW Annual OCT 2011

TestAmerica Job ID: 680-73393-1

GC/MS VOA

Analysis Batch: 218855

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-73393-1	Carbon A-2	Total/NA	Water	8260B	
680-73393-2	Carbon B-1	Total/NA	Water	8260B	
680-73393-3	Influent	Total/NA	Water	8260B	
680-73393-4	Effluent	Total/NA	Water	8260B	
680-73393-10	Trip Blank	Total/NA	Water	8260B	
LCS 680-218855/2	Lab Control Sample	Total/NA	Water	8260B	
LCSD 680-218855/7	Lab Control Sample Dup	Total/NA	Water	8260B	
MB 680-218855/6	Method Blank	Total/NA	Water	8260B	

GC Semi VOA

Prep Batch: 218292

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-73393-1	Carbon A-2	Total/NA	Water	3520C	
680-73393-2	Carbon B-1	Total/NA	Water	3520C	
680-73393-3	Influent	Total/NA	Water	3520C	
680-73393-3 - DL	Influent	Total/NA	Water	3520C	
680-73393-4	Effluent	Total/NA	Water	3520C	
680-73393-5	MW-40L	Total/NA	Water	3520C	
680-73393-5 - DL	MW-40L	Total/NA	Water	3520C	
680-73393-6	PZ-2	Total/NA	Water	3520C	
680-73393-7	MW-38L	Total/NA	Water	3520C	
680-73393-8	MW-39L	Total/NA	Water	3520C	
680-73393-9	PZ-3	Total/NA	Water	3520C	
680-73393-9 MS	PZ-3	Total/NA	Water	3520C	
680-73393-9 MSD	PZ-3	Total/NA	Water	3520C	
LCS 680-218292/15-A	Lab Control Sample	Total/NA	Water	3520C	
MB 680-218292/14-A	Method Blank	Total/NA	Water	3520C	

Analysis Batch: 218807

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-73393-1	Carbon A-2	Total/NA	Water	8081B/8082A	218292
680-73393-2	Carbon B-1	Total/NA	Water	8081B/8082A	218292
680-73393-3	Influent	Total/NA	Water	8081B/8082A	218292
680-73393-4	Effluent	Total/NA	Water	8081B/8082A	218292
680-73393-5	MW-40L	Total/NA	Water	8081B/8082A	218292
680-73393-6	PZ-2	Total/NA	Water	8081B/8082A	218292
680-73393-7	MW-38L	Total/NA	Water	8081B/8082A	218292
680-73393-8	MW-39L	Total/NA	Water	8081B/8082A	218292
680-73393-9	PZ-3	Total/NA	Water	8081B/8082A	218292
680-73393-9 MS	PZ-3	Total/NA	Water	8081B/8082A	218292
680-73393-9 MSD	PZ-3	Total/NA	Water	8081B/8082A	218292
LCS 680-218292/15-A	Lab Control Sample	Total/NA	Water	8081B/8082A	218292
MB 680-218292/14-A	Method Blank	Total/NA	Water	8081B/8082A	218292

Analysis Batch: 218943

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-73393-3 - DL	Influent	Total/NA	Water	8081B/8082A	218292
680-73393-5 - DL	MW-40L	Total/NA	Water	8081B/8082A	218292

Lab Chronicle

Client: Kleinfelder Inc
Project/Site: Geigy Chemical Corp.- GW Annual OCT 2011

TestAmerica Job ID: 680-73393-1

Client Sample ID: Carbon A-2

Lab Sample ID: 680-73393-1
Matrix: Water

Date Collected: 10/13/11 14:07
Date Received: 10/14/11 09:27

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	218855	10/25/11 17:30	JG	TAL SAV
Total/NA	Prep	3520C			218292	10/20/11 14:54	RBS	TAL SAV
Total/NA	Analysis	8081B/8082A		1	218807	10/21/11 19:51	JK	TAL SAV

Client Sample ID: Carbon B-1

Lab Sample ID: 680-73393-2
Matrix: Water

Date Collected: 10/13/11 13:55
Date Received: 10/14/11 09:27

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	218855	10/25/11 17:56	JG	TAL SAV
Total/NA	Prep	3520C			218292	10/20/11 14:54	RBS	TAL SAV
Total/NA	Analysis	8081B/8082A		1	218807	10/21/11 20:10	JK	TAL SAV

Client Sample ID: Influent

Lab Sample ID: 680-73393-3
Matrix: Water

Date Collected: 10/13/11 14:13
Date Received: 10/14/11 09:27

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	218855	10/25/11 18:22	JG	TAL SAV
Total/NA	Prep	3520C			218292	10/20/11 14:54	RBS	TAL SAV
Total/NA	Analysis	8081B/8082A		1	218807	10/21/11 20:29	JK	TAL SAV
Total/NA	Prep	3520C	DL		218292	10/20/11 14:54	RBS	TAL SAV
Total/NA	Analysis	8081B/8082A	DL	4	218943	10/25/11 15:56	JK	TAL SAV

Client Sample ID: Effluent

Lab Sample ID: 680-73393-4
Matrix: Water

Date Collected: 10/13/11 14:21
Date Received: 10/14/11 09:27

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	218855	10/25/11 18:49	JG	TAL SAV
Total/NA	Prep	3520C			218292	10/20/11 14:54	RBS	TAL SAV
Total/NA	Analysis	8081B/8082A		1	218807	10/21/11 20:47	JK	TAL SAV

Client Sample ID: MW-40L

Lab Sample ID: 680-73393-5
Matrix: Water

Date Collected: 10/13/11 12:23
Date Received: 10/14/11 09:27

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			218292	10/20/11 14:54	RBS	TAL SAV
Total/NA	Analysis	8081B/8082A		1	218807	10/21/11 21:06	JK	TAL SAV
Total/NA	Prep	3520C	DL		218292	10/20/11 14:54	RBS	TAL SAV
Total/NA	Analysis	8081B/8082A	DL	4	218943	10/25/11 16:25	JK	TAL SAV

Lab Chronicle

Client: Kleinfelder Inc
Project/Site: Geigy Chemical Corp.- GW Annual OCT 2011

TestAmerica Job ID: 680-73393-1

Client Sample ID: PZ-2

Lab Sample ID: 680-73393-6
Matrix: Water

Date Collected: 10/13/11 10:48
Date Received: 10/14/11 09:27

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			218292	10/20/11 14:54	RBS	TAL SAV
Total/NA	Analysis	8081B/8082A		1	218807	10/21/11 21:25	JK	TAL SAV

Client Sample ID: MW-38L

Lab Sample ID: 680-73393-7
Matrix: Water

Date Collected: 10/13/11 10:13
Date Received: 10/14/11 09:27

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			218292	10/20/11 14:54	RBS	TAL SAV
Total/NA	Analysis	8081B/8082A		1	218807	10/21/11 21:44	JK	TAL SAV

Client Sample ID: MW-39L

Lab Sample ID: 680-73393-8
Matrix: Water

Date Collected: 10/13/11 09:35
Date Received: 10/14/11 09:27

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			218292	10/20/11 14:54	RBS	TAL SAV
Total/NA	Analysis	8081B/8082A		1	218807	10/21/11 22:03	JK	TAL SAV

Client Sample ID: PZ-3

Lab Sample ID: 680-73393-9
Matrix: Water

Date Collected: 10/13/11 11:23
Date Received: 10/14/11 09:27

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			218292	10/20/11 14:54	RBS	TAL SAV
Total/NA	Analysis	8081B/8082A		1	218807	10/21/11 22:22	JK	TAL SAV

Client Sample ID: Trip Blank

Lab Sample ID: 680-73393-10
Matrix: Water

Date Collected: 10/13/11 00:00
Date Received: 10/14/11 09:27

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	218855	10/25/11 13:34	JG	TAL SAV

Laboratory References:

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Serial Number 04

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404

Website:
Phone: (
Fax: (912

Alternate Laboratory Name/Location

Phone:
Fax:

PROJECT REFERENCE: Olin/Giegy	PROJECT NO.: 115984	PROJECT LOCATION (STATE): NC	MATRIX TYPE
TAL (LAB) PROJECT MANAGER: Lidya Galiza	P.O. NUMBER:	CONTRACT NO.:	
CLIENT (SITE) PM: Chris Hay	CLIENT PHONE: 336 668 0093	CLIENT FAX:	
CLIENT NAME: Kleinfelder	CLIENT E-MAIL: chay@kleinfelder.com ppozzo@kleinfelder.com		
CLIENT ADDRESS: 313 Gallimore dairy Rd Greensboro NC 27409			
COMPANY CONTRACTING THIS WORK (if applicable):			

REQUIRED ANALYSIS: 8081-8082 TCL Pest; 8260 TCE only

✓ HC PRESERVATIVE

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	8081-8082 TCL Pest	8260 TCE only							
10/13/11	1407	Carbon A-2	G	X				✓	X							
	1355	Carbon B-1						✓	X							
	1413	Influent						✓	X							
	1421	Effluent						✓	X							
	1223	MW-40L						✓								
	1048	PZ-2						✓								
	1013	MW-38L						✓								
	935	MW-39L						✓								
	1123	PZ-3						✓								

NUMBER OF CONTAINERS SUBMITTED

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)
[signature]	10/13/11	1900	Fed Ex			
RECEIVED BY: (SIGNATURE)	**DATE**	**TIME**	**RECEIVED BY: (SIGNATURE)**	**DATE**	**TIME**	**RECEIVED BY: (SIGNATURE)**

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	SAVANNAH LOG NO.	LABORATORY REMARKS
Beth A Daughtry	10/14/11	0927	YES ○ NO ○		680-73393	Temp 0.

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Login Sample Receipt Checklist

Client: Kleinfelder Inc

Job Number: 680-73393-1

Login Number: 73393
List Number: 1
Creator: Daughtry, Beth

List Source: TestAmerica Savannah

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	3 coolers rec'd
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	0.8, 1.6, 1.2 C
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the sample IDs on the containers and the COC.	False	Rec'd Trip Blank not listed on COC
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	Insufficient volume received for MS/MSD.
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Certification Summary

Client: Kleinfelder Inc
Project/Site: Geigy Chemical Corp.- GW Annual OCT 2011

TestAmerica Job ID: 680-73393-1

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Savannah	A2LA	DoD ELAP		0399-01
TestAmerica Savannah	A2LA	ISO/IEC 17025		399.01
TestAmerica Savannah	Alabama	State Program	4	41450
TestAmerica Savannah	Arkansas	Arkansas DOH	6	N/A
TestAmerica Savannah	Arkansas	State Program	6	88-0692
TestAmerica Savannah	California	NELAC	9	3217CA
TestAmerica Savannah	Colorado	State Program	8	N/A
TestAmerica Savannah	Connecticut	State Program	1	PH-0161
TestAmerica Savannah	Delaware	State Program	3	N/A
TestAmerica Savannah	Florida	NELAC	4	E87052
TestAmerica Savannah	Georgia	Georgia EPD	4	N/A
TestAmerica Savannah	Georgia	State Program	4	803
TestAmerica Savannah	Guam	State Program	9	09-005r
TestAmerica Savannah	Hawaii	State Program	9	N/A
TestAmerica Savannah	Illinois	NELAC	5	200022
TestAmerica Savannah	Indiana	State Program	5	N/A
TestAmerica Savannah	Iowa	State Program	7	353
TestAmerica Savannah	Kentucky	Kentucky UST	4	18
TestAmerica Savannah	Kentucky	State Program	4	90084
TestAmerica Savannah	Louisiana	NELAC	6	30690
TestAmerica Savannah	Louisiana	NELAC	6	LA100015
TestAmerica Savannah	Maine	State Program	1	GA00006
TestAmerica Savannah	Maryland	State Program	3	250
TestAmerica Savannah	Massachusetts	State Program	1	M-GA006
TestAmerica Savannah	Michigan	State Program	5	9925
TestAmerica Savannah	Mississippi	State Program	4	N/A
TestAmerica Savannah	Montana	State Program	8	CERT0081
TestAmerica Savannah	Nebraska	State Program	7	TestAmerica-Savannah
TestAmerica Savannah	New Jersey	NELAC	2	GA769
TestAmerica Savannah	New Mexico	State Program	6	N/A
TestAmerica Savannah	New York	NELAC	2	10842
TestAmerica Savannah	North Carolina	North Carolina DENR	4	269
TestAmerica Savannah	North Carolina	North Carolina PHL	4	13701
TestAmerica Savannah	Oklahoma	State Program	6	9984
TestAmerica Savannah	Pennsylvania	NELAC	3	68-00474
TestAmerica Savannah	Puerto Rico	State Program	2	GA00006
TestAmerica Savannah	Rhode Island	State Program	1	LAO00244
TestAmerica Savannah	South Carolina	State Program	4	98001
TestAmerica Savannah	Tennessee	State Program	4	TN02961
TestAmerica Savannah	Texas	NELAC	6	T104704185-08-TX
TestAmerica Savannah	USDA	USDA		SAV 3-04
TestAmerica Savannah	Vermont	State Program	1	87052
TestAmerica Savannah	Virginia	NELAC Secondary AB	3	460161
TestAmerica Savannah	Virginia	State Program	3	302
TestAmerica Savannah	Washington	State Program	10	C1794
TestAmerica Savannah	West Virginia	West Virginia DEP	3	94
TestAmerica Savannah	West Virginia	West Virginia DHHR (DW)	3	9950C
TestAmerica Savannah	Wisconsin	State Program	5	999819810
TestAmerica Savannah	Wyoming	State Program	8	8TMS-Q

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.