



water resources / environmental consultants

3 Innwood Circle, Suite 220 • Little Rock, AR 72211-2449 • (501) 225-7779 • Fax (501) 225-6738

May 3, 2013
bailey@adeq.state.ar.us

Mr. John Bailey
Water Division – Permits Branch Manager
Arkansas Department of Environmental Quality
5301 Northshore Drive
North Little Rock, AR 72118-5317

RE: NPDES Permit No. AR0001210 (AFIN: 02-00013)
FTN No. R06390-0100-001

Dear Mr. Bailey:

On behalf of Georgia-Pacific Chemicals Plant in Crossett (GP), we are submitting the enclosed Closure Plan for an existing clay-lined Surface Water Containment Pond (pond) located on the GP site. FTN Associates, Ltd. (FTN) was retained by GP to develop this closure plan for the pond.

This plan addresses the requirements for closure of wastewater containment ponds as described in the Waste Storage Pond Closure Guidelines (Appendix A of the Plan) established by the Water Division of the Arkansas Department of Environmental Quality.

If you have any questions or require additional information regarding this plan, please feel free to contact me or Ray Wieda, PE, at (501) 225-7779.


Respectfully submitted,
FTN ASSOCIATES, LTD.

Rex Robbins, PE
Project Manager

RMR/tas

Attachment

CC: Tom Hudson, GP Crossett

R:\WP_FILES\06390-0100-001\CORRESPONDENCE\L-J BAILEY 2013-05-03 GP CLOSURE PLAN\L-J BAILEY 2013-05-03.DOCX 



water resources / environmental consultants

GEORGIA-PACIFIC CHEMICALS LLC

**SURFACE WATER CONTAINMENT POND
CLOSURE PLAN**

**NPDES PERMIT NO. AR0001210 (AFIN: 02-00013)
AFIN: 02-00028**

May 3, 2013

GEORGIA-PACIFIC CHEMICALS LLC

SURFACE WATER CONTAINMENT POND
CLOSURE PLAN

NPDES PERMIT NO. AR0001210 (AFIN: 02-00013)
AFIN: 02-00028

Prepared for

Georgia-Pacific Chemicals LLC
Highway 82 and Papermill Road
Crossett, AR 71635

Prepared by

FTN Associates, Ltd.
3 Innwood Circle, Suite 220
Little Rock, AR 72211

FTN No. 06390-0100-001

May 3, 2013

ENGINEERS CERTIFICATION

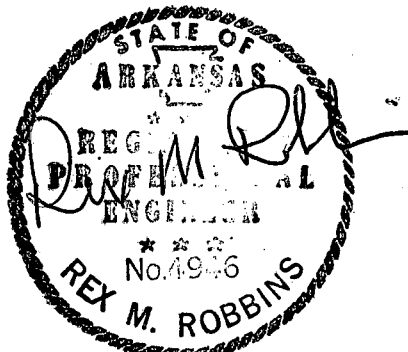
I, Rex Robbins, having examined the Georgia-Pacific Chemicals LLC facility located in Crossett, Arkansas, and being familiar with the provisions of 40 CFR Part 112, attest that, as of the date of this certification, this Closure Plan has been prepared in accordance with good engineering practices. This Closure Plan was prepared based upon my examination of the site and upon information provided to me by Georgia-Pacific Chemicals LLC. This certification is contingent upon the fact that all information supplied, up to the date of this certification, is unquestionably accurate and was provided in good faith. This certification in no way relieves Georgia-Pacific Chemicals LLC of its duty to prepare and fully implement this Closure Plan and to amend this Closure Plan in accordance with the regulations as may be appropriate. This certification is valid only if this page has the original seal and signature of the engineer present on it.

Rex M. Robbins

Rex M. Robbins, PE
Arkansas No. 4946

5-3-2013

Date



5-3-2013

TABLE OF CONTENTS

ENGINEERS CERTIFICATION	i
1.0 GENERAL SITE INFORMATION	1-1
1.1 General Site Description	1-1
1.2 Site Future Uses	1-2
2.0 EXISTING NPDES PERMIT	2-1
3.0 EXISTING SURFACE WATER CONTAINMENT POND	3-1
4.0 POND WASTE CHARACTERISTICS	4-1
4.1 Surface Water	4-1
4.2 Sediment Sludge	4-1
5.0 POND CLOSURE PLAN	5-1
5.1 Closure	5-1
5.2 Screening Levels for Clean Closure	5-2
5.3 Revegetation	5-3

LIST OF APPENDICES

APPENDIX A:	Storage Pond Closure Guidelines
APPENDIX B:	Sediment Sludge Analytical Results
APPENDIX C:	Boiler Ash Analytical Results
APPENDIX D:	Clean Soil Analytical Results
APPENDIX E:	Closure Plan Drawings

LIST OF FIGURES

Figure 1.1 Site location map..... 1-3

LIST OF TABLES

Table 4.1 Pond Sediments - Analytical results and regulatory limits..... 4-3
Table 4.2 Boiler Ash - Analytical results and regulatory limits 4-4

1.0 GENERAL SITE INFORMATION

1.1 General Site Description

The Georgia-Pacific Chemicals Plant (GP), Crossett, is the site of a chemical plant and is located at Highway 82 and Papermill Road in Crossett, Ashley County, Arkansas (Figure 1.1). The site is located on approximately 40 acres of land. The GP facility consists of the following operations.

1. Tall Oil Manufacturing Plant
 - a. Crude Tall Oil Fractionation (TOFRAC) Plant
 - b. Rosin Size Plant
 - c. Rosin Derivatives and Pastillation Plant
2. Liquid Resin Manufacturing Plant
 - d. PF Resin Manufacturing
 - e. UF Resin Manufacturing
 - f. Wet Strength Resin Manufacturing
 - g. Novacote Resin Manufacturing
 - h. Resi-Mix Resin Manufacturing
3. Spray Dry Resin Manufacturing
4. Formaldehyde and Urea Formaldehyde Concentrate (UFC) Manufacturing Plant

Upon completion of various stormwater drainage and process wastewater reuse projects at the facility, currently scheduled for July 2013, the facility will no longer have a need for the clay-lined Surface Water Containment Pond (pond) located on site. The facility intends to close the pond in accordance with a Closure Plan approved by the Water Division of the Arkansas Department of Environmental Quality (ADEQ). FTN Associates, Ltd. (FTN) was retained by GP to develop this closure plan for the pond.

This plan addresses the requirements for closure of wastewater containment ponds as described in the Waste Storage Pond Closure Guidelines (Appendix A) set forth by the State Permits Branch of the Water Division of ADEQ.

General site information is as follows:

1. AFIN: 02-00028;
2. Site Address: Highway 82 and Papermill Road, Crossett, Arkansas 71635;
3. NAICS Numbers: 35211, 325191, 325199;
4. Facility Coordinates (front gate): 33 deg. 08'10" N, 91 deg. 58'01"W;
5. Pond Coordinates (center of pond): 33 deg 08'27"N, 91 deg 58' 00" W;
6. Facility Contact: Tom Hudson, Environmental Manager; (870) 567-7342; and
7. Certifying Professional Engineer: Rex Robbins, PE (Arkansas License 4946).

1.2 Site Future Uses

The Surface Water Containment Pond is located within the property boundaries of the Georgia-Pacific Chemical facility and within a secured area (fenced, gated, and 24/7 security personnel). The pond is not accessible to the public. There are no short or long-term plans that would affect that status. Based on this description, it is proposed that ADEQ screening levels for TPH in soil and the U.S. Environmental Protection Agency (EPA) (November 2012) Regional Screening Levels (RSLs) for industrial site soil would be applicable to the clean closure of the pond. Additional information regarding these screening levels and the applicable criteria are discussed in Section 5.2 of this Plan.

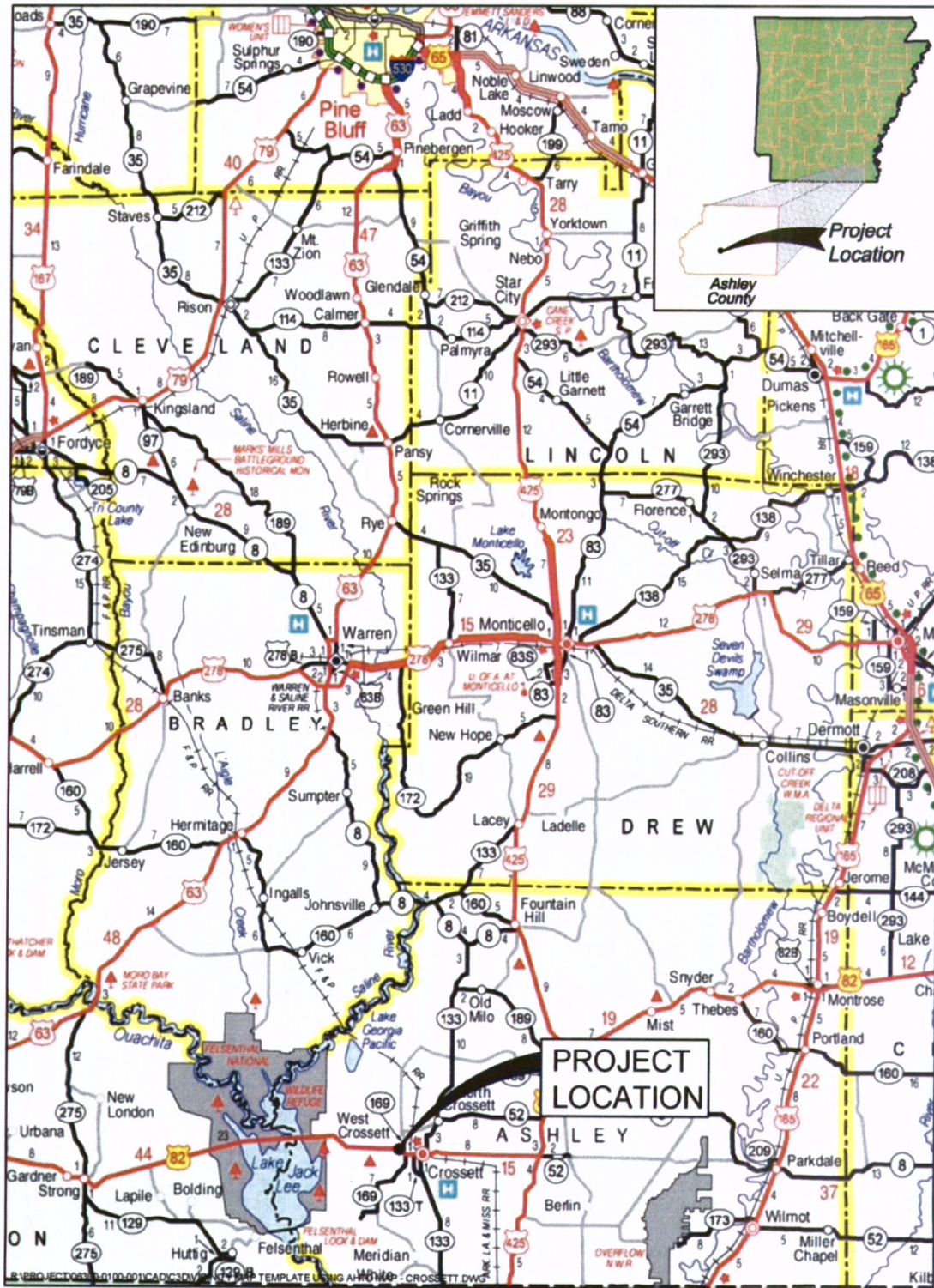


Figure 1.1. Site location map.

2.0 EXISTING NPDES PERMIT

The Surface Water containment pond proposed for closure is permitted by ADEQ under the Georgia-Pacific Complex wastewater treatment system, National Pollutant Discharge Elimination System (NPDES) Permit No. AR0001210 (AFIN: 02-00013); is managed by the Georgia-Pacific Crossett pulp & paper mill. While the pond itself is not specifically mentioned in the permit, discharges from the chemical plant to the GP complex wastewater treatment plant are listed as a source to permitted Outfall 001. The pond discharges process wastewater and stormwater from the chemical plant to the treatment plant of the adjacent paper mill. Communication with the Permits Section of the Water Division of ADEQ indicates that the pond is considered a part of the NPDES system and will require an approved closure plan.

3.0 EXISTING SURFACE WATER CONTAINMENT POND

With the current operation, as covered under the NPDES permit, discharges from the chemical plant's manufacturing operations, as well as stormwater, flow through a series of sumps and u-drains to the Surface Water Containment Pond. This pond covers approximately 18,500 square feet of water surface. At various intervals, dependent upon the water level in the pond, the collected process wastewater/stormwater mixture is pumped to the wastewater treatment plant of the adjacent Paper Mill also owned by Georgia-Pacific.

Changes to the flow of process wastewater and stormwater are currently being executed that will eliminate the need for the Surface Water Containment Pond. The following elements required for Pond Closure have been scheduled for completion by the end of July 2013:

- All required spill containment and storm water segregation upgrades will be completed.
- The new treatment Oil/Water separators will be installed and operational.
- All process wastewater streams currently going to the Surface Water Containment Pond will be redirected to the new treatment Oil/Water separators or directly to the Mill Trench, if appropriate. The Mill Trench is an existing conveyance to the NPDES wastewater system.

4.0 POND WASTE CHARACTERISTICS

4.1 Surface Water

The Surface Water Containment Pond was designed to collect and hold stormwater runoff and process wastewater from the chemical plant. After the current plans for process modifications are completed, the Surface Water Containment Pond will no longer be utilized as an active unit for holding process wastewater. Until closure is completed, some stormwater will continue to be received by the pond. GP will continue to periodically pump the stormwater from the pond as needed to maintain the pond level. This activity will still be covered by the existing NPDES permit.

As part of the pond closure activities, GP plans to pump all of the free water remaining in the pond to the GP complex wastewater treatment plant in accordance with the provisions of the NPDES permit. The free water from the pond will be treated and discharged through the NPDES Outfall 001. This water will not be significantly different in quality than the existing water being handled under the current NPDES permit.

Following the completion of the pumping operation, a small amount of free water and a significant quantity of wet sediment will remain in the pond. This sediment will require a separate disposal method compared to the water pumped through the NPDES outfall.

4.2 Sediment Sludge

The runoff and process wastewater from the chemical plant contains settleable solids that have precipitated in the Surface Water Containment Pond. This material has been retained in the pond. Over a period of time, a sediment sludge layer has accumulated in the bottom of the pond. In the past, GP has periodically excavated this layer for disposal. During this disposal operation, the sediments have been sampled, tested, and transported to the Georgia-Pacific Pulp and Paper Mill's Class 3N landfill for final disposal. This final disposal has been completed under the terms of the GP pulp and paper mill landfill's operating permit (AFIN: 02-00013; Permit Number: 270-S3N-R2). This landfill is owned and operated by Georgia-Pacific Crossett Paper

LLC. The removal and disposal of sediments during the proposed Pond Closure process will essentially follow this same procedure.

After the water in the pond has been pumped to the wastewater treatment plant, GP will excavate the entire sediment sludge layer in the pond down to the clay pond liner or to clean soil. GP estimates the total volume of solid or semi-solid material removed in this operation will be approximately 3,500 cubic yards.

A composite, representative sample of the sediment material, including the sediment layer and the clay liner, has already been collected from locations within the pond perimeter. FTN assisted and oversaw the collection of this composite sample. Analytical testing to include Toxicity Characteristic Leaching Procedure (TCLP) of June 13, 1986, metals; TCLP volatile organics; and TCLP semi-volatile organics tests were performed by an ADEQ certified laboratory. The results of this testing demonstrated that the concentrations of the tested parameters were below levels of regulatory concern based on the sampling requirements imposed by the landfill's operating permit. The results of this testing are shown in Table 4.1. The laboratory data sheets for this testing are provided as Appendix B.

Prior to the removal of sediments from the pond, boiler ash will be used to mix with the sediments to provide bulking and de-watering. The objective of this operation is to eliminate any free water from the sediments prior to transport to the GP pulp and paper mill landfill. The landfill is already being used for disposal of the boiler ash. An analysis of the boiler ash has also been completed and the results are shown in Table 4.2. The laboratory data sheets are shown in Appendix C. As with the sediments, the concentrations of the tested parameters were below levels of regulatory concern based on the sampling requirements imposed by the landfill's operating permit.

Based on the results of the above sampling for both the sediments and the boiler ash, the resulting material will be sent for final disposition to the GP pulp and paper mill Class 3N landfill.

Table 4.1. Pond Sediments - Analytical results and regulatory limits.

Parameter	Analytical Results (TCLP, mg/l)	Toxicity Characteristic Regulatory Level (mg/l)	Below Regulatory Toxicity Characteristic Limits?
Arsenic	<0.3	5.0	Yes
Barium	0.16	100	Yes
Cadmium	<0.02	1.0	Yes
Chromium	<0.04	5.0	Yes
Lead	<0.2	5.0	Yes
Mercury	<0.008	0.2	Yes
Selenium	<0.4	1.0	Yes
Silver	<0.04	5.0	Yes
Benzene	<0.50	0.5	Yes
Carbon Tetrachloride	<0.20	0.5	Yes
Chlorobenzene	<0.50	100	Yes
Chloroform	<0.50	6.0	Yes
1,4-Dichlorobenzene	<0.05	7.5	Yes
1,2-Dichloroethane	<0.50	0.50	Yes
1,1-Dichloroethylene	<0.50	0.70	Yes
Methyl Ethyl Ketone	<1.0	200	Yes
Tetrachloroethylene	<0.50	0.7	Yes
Trichloroethylene	<0.50	0.50	Yes
Vinyl Chloride	<0.20	0.20	Yes
Cresols	<0.10	200	Yes
2,4-Dinitrotoluene	<0.05	0.13	Yes
Hexachlorobenzene	<0.05	0.13	Yes
Hexachlorobutadiene	<0.05	0.5	Yes
Hexachloroethane	<0.05	3.0	Yes
Nitrobenzene	<0.05	2.0	Yes
Pentachlorophenol	<0.05	100	Yes
Pyridine	<0.05	5.0	Yes
2,4,5-Trichlorophenol	<0.05	400	Yes
2,4,6-Trichlorophenol	<0.05	2.0	Yes

Table 4.2. Boiler Ash - Analytical results and regulatory limits.

Parameter	Ash Pond Analytical Results (TCLP, mg/l)	Ash Basin Analytical Results (TCLP, mg/l)	Toxicity Characteristic Regulatory Level (mg/l)	Below Regulatory Toxicity Characteristic Limits?
Arsenic	<0.3	<0.3	5.0	Yes
Barium	2.2	1.6	100	Yes
Cadmium	<0.02	<0.02	1.0	Yes
Chromium	<0.04	<0.04	5.0	Yes
Lead	<0.2	<0.2	5.0	Yes
Mercury	<0.008	<0.008	0.2	Yes
Selenium	<0.4	<0.4	1.0	Yes
Silver	<0.04	<0.04	5.0	Yes
Benzene	<0.50	<0.50	0.5	Yes
Carbon Tetrachloride	<0.20	<0.20	0.5	Yes
Chlorobenzene	<0.50	<0.50	100	Yes
Chloroform	<0.50	<0.50	6.0	Yes
1,2-Dichloroethane	<0.50	<0.50	0.50	Yes
1,1-Dichloroethylene	<0.50	<0.50	0.70	Yes
Methyl Ethyl Ketone	<1.0	<1.0	200	Yes
Tetrachloroethylene	<0.50	<0.50	0.7	Yes
Trichloroethylene	<0.50	<0.50	0.50	Yes
Vinyl Chloride	<0.20	<0.20	0.20	Yes
Cresols	<0.10	<0.10	200	Yes
2,4-Dinitrotoluene	<0.05	<0.05	0.13	Yes
Hexachlorobenzene	<0.05	<0.05	0.13	Yes
Hexachlorobutadiene	<0.05	<0.05	0.5	Yes
Hexachloroethane	<0.05	<0.05	3.0	Yes
Nitrobenzene	<0.05	<0.05	2.0	Yes
Pentachlorophenol	<0.05	<0.05	100	Yes
Pyridine	<0.05	<0.05	5.0	Yes
2,4,5-Trichlorophenol	<0.05	<0.05	400	Yes
2,4,6-Trichlorophenol	<0.05	<0.05	2.0	Yes

5.0 POND CLOSURE PLAN

5.1 Closure

The following plan will be followed in the execution of the closure activities. All activities will also be completed in accordance with the closure plan approval issued by ADEQ:

1. All process wastewater inputs will be diverted away from the pond as described in Sections 3.0 and 4.1 of this Plan.
2. Free water, including accumulated stormwater, will be pumped from the pond through the existing NPDES treatment system and on to Outfall 001.
3. After free water has been removed from the pond, sediments will be excavated to an average depth of 6 ft below natural grade across the approximately 0.5 acre area. The area of excavation is shown in the attached drawing provided as Drawing 1 (Appendix E). This drawing is overlaid onto an aerial view of the pond and shows the approximate limits of excavation. Excavated sediments will be mixed with boiler ash and landfilled as described in Section 4.2 of this Plan. Runoff from the excavated sediments or from rainfall that falls onto the excavated material will be directed back into the pond or into the Mill Trench which also drains to the NPDES treatment system.
4. After sediment removal is complete, four (4) samples will be taken of the exposed soil layer from an approximate grid laid out in quadrants over the exposed area. Confirmation soil samples will be collected by the certifying engineer or his designated representative.
5. An analysis of the soil samples will be performed by an analytical laboratory certified by ADEQ. The list of parameters for testing will be based on the contaminants potentially present in the pond. The list of these parameters will include the following:
 - a. Total Petroleum Hydrocarbons (TPH) - Gasoline Range Organics,
 - b. TPH - Diesel Range Organics,
 - c. TPH - Residual Oil,
 - d. Formaldehyde,
 - e. Methanol,
 - f. Toluene, and
 - g. Acetaldehyde.

6. The testing results will be compared to ADEQ screening levels for TPH in soil and EPA RSLs for other compounds in soil. For industrial sites, these screening levels are shown in Section 5.2 of this Plan.
7. If contaminant levels are below the screening levels shown in Section 5.2 of this Plan, the certifying engineer will issue a statement that the pond is ready for backfilling.
8. If the contaminant levels are not below required levels established by the stated screening levels, additional excavation will be completed or a new plan will be developed for the site remediation. If a new plan is developed, ADEQ will be provided with the opportunity to review and approve the revised plan.
9. After the sediment sludge layer is removed, GP will backfill the pond with clean offsite fill material from an established borrow site to establish final grades to natural ground level. An analysis of the soil to be used for backfill is attached as Appendix D. The final grading plan for the pond closure will provide for positive stormwater drainage runoff. The proposed final grading plan is shown in Drawing 2 (Appendix E).
10. Disturbed soils from the area will be re-vegetated as described in Section 5.3 below.
11. Following the completion of backfilling, the certifying engineer will prepare a Clean Closure Affidavit that will be submitted to ADEQ. This affidavit will state that the pond was closed in accordance with this Closure Plan as prepared by FTN and approved by ADEQ.

5.2 Screening Levels for Clean Closure

It is proposed that ADEQ screening levels for TPH in soil and EPA RSLs for soil at industrial sites would be applicable to the clean closure of the pond based on the description of the site given in Section 1.2 of this Plan. A list of applicable parameters is shown below. This list is derived from a review of analytical data from process wastewater sources to the pond and from the pond wastewater itself. The list is not comprehensive of all chemicals used in the chemical production process, but is representative of the parameters identified in previous studies of the waste streams. The selected parameters will serve as surrogate indicators of significant residual contamination for all chemical species.

- TPH -GRO – 440 mg/Kg,
- TPH - DRO – 2,300 mg/Kg,

- TPH - Residual Oil – 4,500 mg/Kg,
- Formaldehyde – 1.2×10^5 mg/Kg,
- Methanol – 3.1×10^5 mg/Kg,
- Toluene – 4.5×10^5 mg/Kg,
- Acetaldehyde - 52 mg/Kg.

5.3 Revegetation

Upon completion of final grading activities and establishment of final grades, top soil will be added to the area as required to support revegetation. All disturbed areas will be seeded with a temporary vegetation cover such as rye grass for erosion control. Permanent vegetation will include seeding the area with a cover such as Bermuda grass or other grass mixture appropriate for the season and soil conditions.

APPENDIX A

Storage Pond Closure Guidelines

**ARKANSAS DEPARTMENT OF ENVIRONMENTAL QUALITY
STATE PERMITS BRANCH
WATER DIVISION**

WASTE STORAGE POND CLOSURE GUIDELINES

1. Permitted facilities are required to notify the Department at least **sixty (60) days** prior of any planned removal, closure or abandonment of any waste storage or treatment structure containing waste or residuals from confined animal facilities, municipal water or wastewater treatment facilities, processing plants or other specified wastes.
2. A closure plan must be submitted to the Department for approval prior to closure of the structure. The closure plan must be developed by the Natural Resources Conservation Service (NRCS), an Arkansas Soil and Water Conservation District water quality technician or a professional engineer registered in the State of Arkansas.
3. A closure plan must contain the following information:
 - A. Permittee name, type of permit and permit number.
 - B. Facility location, type of facility and county.
 - C. Type and size of waste storage structure to be closed (pond, concrete tank, etc.)
 - D. Quality and quantity of waste contained in waste storage structure.
 - E. Method of waste disposal.
 - F. Final status of waste storage structure (i.e. destroyed, removed, remain in place, convert to fresh water pond, etc.).
4. For earthen ponds and lagoons converted to fresh water ponds, a minimum of six (6) inches of soil must be removed from the bottom and inside levees of the pond. The disposal of this waste must be addressed in the closure plan.
5. If remaining waste will be land applied, the following additional information is required:
 - A. Legal description and identification of proposed waste application site.
 - B. Permit status of proposed waste application site (i.e. is it included in the current permit?).
 - C. Solids content (%) of waste.
 - D. Plant Available Nitrogen (PAN) of waste.
 - E. Waste application rate.
 - F. Cover crop at waste application site and the corresponding nutrient uptake rate.
 - G. Total number of acres required for disposal of remaining waste.
6. Any waste disposal methods other than land application must be described in sufficient detail and include the final destination of the waste.

APPENDIX B

Sediment Sludge Analytical Results

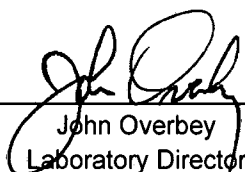


Georgia-Pacific Corporation
ATTN: Mr. Mark Woods
Post Office Box 520
Crossett, AR 71635

This report contains the analytical results and supporting information for the sample submitted on November 8, 2012. Attached please find a copy of the Chain of Custody and/or other documents received. Note that any remaining sample will be discarded two weeks from the original report date unless other arrangements are made.

This report is intended for the sole use of the client listed above. Assessment of the data requires access to the entire document.

This report has been reviewed by the Laboratory Director or a qualified designee.



John Overbey
Laboratory Director

This document has been distributed to the following:

PDF cc: FTN Associates, Ltd.
ATTN: Mr. Rex Robbins
rnr@ftn-assoc.com

FTN Associates, LTD.
ATTN: Mr. Nick Siria
ncs@ftn-assoc.com

Georgia-Pacific Corporation
ATTN: Mr. Mark Woods
mark.woods@gapac.com



Georgia-Pacific Corporation
Post Office Box 520
Crossett, AR 71635

SAMPLE INFORMATION

Project Description:

One (1) solid sample(s) received on November 8, 2012
Georgia Pacific-Crossett
P.O. No. P554122872

Receipt Details:

A Chain of Custody was provided. The samples were delivered in one (1) ice chest.

Each sample container was checked for proper labeling, including date and time sampled. Sample containers were reviewed for proper type, adequate volume, integrity, temperature, preservation, and holding times. Any exceptions are noted below:

Sample Identification:

<u>Laboratory ID</u>	<u>Client Sample ID</u>	<u>Sampled Date/Time</u>	<u>Notes</u>
162377-1	GP Holding Pond 11-8-12 1000	08-Nov-2012 1000	

Qualifiers:

D Result is from a secondary dilution factor

References:

"Methods for Chemical Analysis of Water and Wastes", EPA/600/4-79-020 (Mar 1983) with updates and supplements EPA/600/5-91-010 (Jun 1991), EPA/600/R-92-129 (Aug 1992) and EPA/600/R-93-100 (Aug 1993).
"Test Methods for Evaluating Solid Waste Physical/Chemical Methods (SW846)", Third Edition.
"Standard Methods for the Examination of Water and Wastewaters", 21st edition.
"American Society for Testing and Materials" (ASTM).
"Association of Analytical Chemists" (AOAC).



Georgia-Pacific Corporation
Post Office Box 520
Crossett, AR 71635

ANALYTICAL RESULTS

AIC No. 162377-1

Sample Identification: GP Holding Pond 11-8-12 1000

Analyte	Result	RL	Units	Qualifier
TCLP: Solids EPA 1311	100 Analyzed: 08-Nov-2012 1625 by 271	0.5	% Batch: S33352	
TCLP: Arsenic EPA 3010A, 6010C	< 0.3 Prep: 13-Nov-2012 1352 by 271 Analyzed: 13-Nov-2012 2048 by 305	0.3	mg/l Batch: S33493	D Dil: 5
TCLP: Barium EPA 3010A, 6010C	0.16 Prep: 13-Nov-2012 1352 by 271 Analyzed: 13-Nov-2012 2048 by 305	0.01	mg/l Batch: S33493	D Dil: 5
TCLP: Cadmium EPA 3010A, 6010C	< 0.02 Prep: 13-Nov-2012 1352 by 271 Analyzed: 13-Nov-2012 2048 by 305	0.02	mg/l Batch: S33493	D Dil: 5
TCLP: Chromium EPA 3010A, 6010C	< 0.04 Prep: 13-Nov-2012 1352 by 271 Analyzed: 13-Nov-2012 2048 by 305	0.04	mg/l Batch: S33493	D Dil: 5
TCLP: Lead EPA 3010A, 6010C	< 0.2 Prep: 13-Nov-2012 1352 by 271 Analyzed: 13-Nov-2012 2048 by 305	0.2	mg/l Batch: S33493	D Dil: 5
TCLP: Selenium EPA 3010A, 6010C	< 0.4 Prep: 13-Nov-2012 1352 by 271 Analyzed: 13-Nov-2012 2048 by 305	0.4	mg/l Batch: S33493	D Dil: 5
TCLP: Silver EPA 3010A, 6010C	< 0.04 Prep: 13-Nov-2012 1352 by 271 Analyzed: 13-Nov-2012 2048 by 305	0.04	mg/l Batch: S33493	D Dil: 5
TCLP: Mercury EPA 7470A	< 0.008 Prep: 13-Nov-2012 1351 by 271 Analyzed: 15-Nov-2012 1153 by 271	0.008	mg/l Batch: S33492	D Dil: 40
TCLP Base/Neutral and Acid Compounds By EPA 3510C, 8270D				
Cresols EPA 3510C, 8270D	< 0.10 Prep: 12-Nov-2012 1044 by 301 Analyzed: 12-Nov-2012 2020 by 301	0.10	mg/l Batch: B7980	D Dil: 10
1,4-Dichlorobenzene EPA 3510C, 8270D	< 0.050 Prep: 12-Nov-2012 1044 by 301 Analyzed: 12-Nov-2012 2020 by 301	0.050	mg/l Batch: B7980	D Dil: 10
2,4-Dinitrotoluene EPA 3510C, 8270D	< 0.050 Prep: 12-Nov-2012 1044 by 301 Analyzed: 12-Nov-2012 2020 by 301	0.050	mg/l Batch: B7980	D Dil: 10
Hexachlorobenzene EPA 3510C, 8270D	< 0.050 Prep: 12-Nov-2012 1044 by 301 Analyzed: 12-Nov-2012 2020 by 301	0.050	mg/l Batch: B7980	D Dil: 10
Hexachlorobutadiene EPA 3510C, 8270D	< 0.050 Prep: 12-Nov-2012 1044 by 301 Analyzed: 12-Nov-2012 2020 by 301	0.050	mg/l Batch: B7980	D Dil: 10
Hexachloroethane EPA 3510C, 8270D	< 0.050 Prep: 12-Nov-2012 1044 by 301 Analyzed: 12-Nov-2012 2020 by 301	0.050	mg/l Batch: B7980	D Dil: 10
Nitrobenzene EPA 3510C, 8270D	< 0.050 Prep: 12-Nov-2012 1044 by 301 Analyzed: 12-Nov-2012 2020 by 301	0.050	mg/l Batch: B7980	D Dil: 10
Pentachlorophenol EPA 3510C, 8270D	< 0.050 Prep: 12-Nov-2012 1044 by 301 Analyzed: 12-Nov-2012 2020 by 301	0.050	mg/l Batch: B7980	D Dil: 10
Pyridine EPA 3510C, 8270D	< 0.050 Prep: 12-Nov-2012 1044 by 301 Analyzed: 12-Nov-2012 2020 by 301	0.050	mg/l Batch: B7980	D Dil: 10
2,4,5-Trichlorophenol EPA 3510C, 8270D	< 0.050 Prep: 12-Nov-2012 1044 by 301 Analyzed: 12-Nov-2012 2020 by 301	0.050	mg/l Batch: B7980	D Dil: 10

Georgia-Pacific Corporation
Post Office Box 520
Crossett, AR 71635

ANALYTICAL RESULTS

AIC No. 162377-1 (Continued)

Sample Identification: GP Holding Pond 11-8-12 1000

Analyte	Result	RL	Units	Qualifier
TCLP Base/Neutral and Acid Compounds By EPA 3510C, 8270D (Continued)				
2,4,6-Trichlorophenol EPA 3510C, 8270D	< 0.050	0.050	mg/l	D
Prep: 12-Nov-2012 1044 by 301	Analyzed: 12-Nov-2012 2020 by 301		Batch: B7980	Dil: 10
Surrogate: 2-Fluorobiphenyl (50.0-110%) EPA 3510C, 8270D	78.8		%	
Prep: 12-Nov-2012 1044 by 301	Analyzed: 12-Nov-2012 2020 by 301		Batch: B7980	
Surrogate: 2-Fluorophenol (20.0-110%) EPA 3510C, 8270D	64.2		%	
Prep: 12-Nov-2012 1044 by 301	Analyzed: 12-Nov-2012 2020 by 301		Batch: B7980	
Surrogate: Nitrobenzene-D5 (40.0-110%) EPA 3510C, 8270D	78.0		%	
Prep: 12-Nov-2012 1044 by 301	Analyzed: 12-Nov-2012 2020 by 301		Batch: B7980	
Surrogate: Terphenyl-D14 (50.0-135%) EPA 3510C, 8270D	76.5		%	
Prep: 12-Nov-2012 1044 by 301	Analyzed: 12-Nov-2012 2020 by 301		Batch: B7980	
Surrogate: 2,4,6-Tribromophenol (40.0-125%) EPA 3510C, 8270D	76.8		%	
Prep: 12-Nov-2012 1044 by 301	Analyzed: 12-Nov-2012 2020 by 301		Batch: B7980	
TCLP Volatile Organic Compounds By EPA 5030C, 8260C				
Benzene EPA 5030C, 8260C	< 0.50	0.50	mg/l	D
Prep: 09-Nov-2012 1000 by 301	Analyzed: 09-Nov-2012 1824 by 301		Batch: V8150	Dil: 100
Carbon tetrachloride EPA 5030C, 8260C	< 0.20	0.20	mg/l	D
Prep: 09-Nov-2012 1000 by 301	Analyzed: 09-Nov-2012 1824 by 301		Batch: V8150	Dil: 100
Chlorobenzene EPA 5030C, 8260C	< 0.50	0.50	mg/l	D
Prep: 09-Nov-2012 1000 by 301	Analyzed: 09-Nov-2012 1824 by 301		Batch: V8150	Dil: 100
Chloroform EPA 5030C, 8260C	< 0.50	0.50	mg/l	D
Prep: 09-Nov-2012 1000 by 301	Analyzed: 09-Nov-2012 1824 by 301		Batch: V8150	Dil: 100
1,2-Dichloroethane EPA 5030C, 8260C	< 0.50	0.50	mg/l	D
Prep: 09-Nov-2012 1000 by 301	Analyzed: 09-Nov-2012 1824 by 301		Batch: V8150	Dil: 100
1,1-Dichloroethylene EPA 5030C, 8260C	< 0.50	0.50	mg/l	D
Prep: 09-Nov-2012 1000 by 301	Analyzed: 09-Nov-2012 1824 by 301		Batch: V8150	Dil: 100
Methyl ethyl ketone EPA 5030C, 8260C	< 1.0	1.0	mg/l	D
Prep: 09-Nov-2012 1000 by 301	Analyzed: 09-Nov-2012 1824 by 301		Batch: V8150	Dil: 100
Tetrachloroethylene EPA 5030C, 8260C	< 0.50	0.50	mg/l	D
Prep: 09-Nov-2012 1000 by 301	Analyzed: 09-Nov-2012 1824 by 301		Batch: V8150	Dil: 100
Trichloroethylene EPA 5030C, 8260C	< 0.50	0.50	mg/l	D
Prep: 09-Nov-2012 1000 by 301	Analyzed: 09-Nov-2012 1824 by 301		Batch: V8150	Dil: 100
Vinyl chloride EPA 5030C, 8260C	< 0.20	0.20	mg/l	D
Prep: 09-Nov-2012 1000 by 301	Analyzed: 09-Nov-2012 1824 by 301		Batch: V8150	Dil: 100
Surrogate: 4-Bromofluorobenzene (75.0-120%) EPA 5030C, 8260C	98.1		%	D
Prep: 09-Nov-2012 1000 by 301	Analyzed: 09-Nov-2012 1824 by 301		Batch: V8150	Dil: 100
Surrogate: Dibromofluoromethane (85.0-115%) EPA 5030C, 8260C	96.7		%	D
Prep: 09-Nov-2012 1000 by 301	Analyzed: 09-Nov-2012 1824 by 301		Batch: V8150	Dil: 100
Surrogate: Toluene-D8 (85.0-120%) EPA 5030C, 8260C	93.2		%	D
Prep: 09-Nov-2012 1000 by 301	Analyzed: 09-Nov-2012 1824 by 301		Batch: V8150	Dil: 100



Georgia-Pacific Corporation
Post Office Box 520
Crossett, AR 71635

DUPLICATE RESULTS

Analyte	AIC No.	Result	RPD	RPD Limit	Preparation Date	Analysis Date	Dil	Qual
TCLP Volatile Organic Compounds								
Benzene	162198-1	< 0.50 mg/l			09Nov12 1000 by 301	09Nov12 1553 by 301	100	D
	Batch: V8150 Duplicate	< 0.50 mg/l	0.00	30.0	09Nov12 1000 by 301	09Nov12 1623 by 301	100	D
Carbon tetrachloride	162198-1	< 0.20 mg/l			09Nov12 1000 by 301	09Nov12 1553 by 301	100	D
	Batch: V8150 Duplicate	< 0.20 mg/l	0.00	30.0	09Nov12 1000 by 301	09Nov12 1623 by 301	100	D
Chlorobenzene	162198-1	< 0.50 mg/l			09Nov12 1000 by 301	09Nov12 1553 by 301	100	D
	Batch: V8150 Duplicate	< 0.50 mg/l	0.00	30.0	09Nov12 1000 by 301	09Nov12 1623 by 301	100	D
Chloroform	162198-1	< 0.50 mg/l			09Nov12 1000 by 301	09Nov12 1553 by 301	100	D
	Batch: V8150 Duplicate	< 0.50 mg/l	0.00	30.0	09Nov12 1000 by 301	09Nov12 1623 by 301	100	D
1,2-Dichloroethane	162198-1	< 0.50 mg/l			09Nov12 1000 by 301	09Nov12 1553 by 301	100	D
	Batch: V8150 Duplicate	< 0.50 mg/l	0.00	30.0	09Nov12 1000 by 301	09Nov12 1623 by 301	100	D
1,1-Dichloroethylene	162198-1	< 0.50 mg/l			09Nov12 1000 by 301	09Nov12 1553 by 301	100	D
	Batch: V8150 Duplicate	< 0.50 mg/l	0.00	30.0	09Nov12 1000 by 301	09Nov12 1623 by 301	100	D
Methyl ethyl ketone	162198-1	< 1.0 mg/l			09Nov12 1000 by 301	09Nov12 1553 by 301	100	D
	Batch: V8150 Duplicate	< 1.0 mg/l	0.00	30.0	09Nov12 1000 by 301	09Nov12 1623 by 301	100	D
Tetrachloroethylene	162198-1	< 0.50 mg/l			09Nov12 1000 by 301	09Nov12 1553 by 301	100	D
	Batch: V8150 Duplicate	< 0.50 mg/l	0.00	30.0	09Nov12 1000 by 301	09Nov12 1623 by 301	100	D
Trichloroethylene	162198-1	< 0.50 mg/l			09Nov12 1000 by 301	09Nov12 1553 by 301	100	D
	Batch: V8150 Duplicate	< 0.50 mg/l	0.00	30.0	09Nov12 1000 by 301	09Nov12 1623 by 301	100	D
Vinyl chloride	162198-1	< 0.20 mg/l			09Nov12 1000 by 301	09Nov12 1553 by 301	100	D
	Batch: V8150 Duplicate	< 0.20 mg/l	0.00	30.0	09Nov12 1000 by 301	09Nov12 1623 by 301	100	D
4-Bromofluorobenzene (75.0-120%)	162198-1	98.3 %			09Nov12 1000 by 301	09Nov12 1553 by 301	100	D
	Batch: V8150 Duplicate	97.3 %			09Nov12 1000 by 301	09Nov12 1623 by 301	100	D
Dibromofluoromethane (85.0-115%)	162198-1	96.3 %			09Nov12 1000 by 301	09Nov12 1553 by 301	100	D
	Batch: V8150 Duplicate	97.5 %			09Nov12 1000 by 301	09Nov12 1623 by 301	100	D
Toluene-D8 (85.0-120%)	162198-1	92.4 %			09Nov12 1000 by 301	09Nov12 1553 by 301	100	D
	Batch: V8150 Duplicate	92.5 %			09Nov12 1000 by 301	09Nov12 1623 by 301	100	D

Georgia-Pacific Corporation
Post Office Box 520
Crossett, AR 71635

LABORATORY CONTROL SAMPLE RESULTS

Analyte	Spike Amount	%	Limits	RPD	Limit	Batch	Preparation Date	Analysis Date	Dil	Qual
TCLP: Arsenic	5 mg/l	100	85.0-115			S33493	13Nov12 1352 by 271	13Nov12 2036 by 305		
TCLP: Barium	0.5 mg/l	98.8	85.0-115			S33493	13Nov12 1352 by 271	13Nov12 2036 by 305		
TCLP: Cadmium	5 mg/l	100	85.0-115			S33493	13Nov12 1352 by 271	13Nov12 2036 by 305		
TCLP: Chromium	0.5 mg/l	98.2	85.0-115			S33493	13Nov12 1352 by 271	13Nov12 2036 by 305		
TCLP: Lead	5 mg/l	100	85.0-115			S33493	13Nov12 1352 by 271	13Nov12 2036 by 305		
TCLP: Selenium	5 mg/l	89.4	85.0-115			S33493	13Nov12 1352 by 271	13Nov12 2036 by 305		
TCLP: Silver	0.1 mg/l	94.6	85.0-115			S33493	13Nov12 1352 by 271	13Nov12 2036 by 305		
TCLP: Mercury	0.0025 mg/l	93.2	85.0-115			S33492	13Nov12 1351 by 271	15Nov12 1132 by 271		
TCLP Volatile Organic Compounds										
Benzene	20 ug/l	90.0	80.0-120			V8150	09Nov12 1000 by 301	09Nov12 1018 by 301		
2-Butanone	40 ug/l	86.7	30.0-150			V8150	09Nov12 1000 by 301	09Nov12 1018 by 301		
Carbon tetrachloride	20 ug/l	82.4	65.0-140			V8150	09Nov12 1000 by 301	09Nov12 1018 by 301		
Chlorobenzene	20 ug/l	88.8	80.0-120			V8150	09Nov12 1000 by 301	09Nov12 1018 by 301		
Chloroform	20 ug/l	89.8	65.0-135			V8150	09Nov12 1000 by 301	09Nov12 1018 by 301		
1,2-Dichloroethane	20 ug/l	88.5	70.0-130			V8150	09Nov12 1000 by 301	09Nov12 1018 by 301		
1,1-Dichloroethene	20 ug/l	95.6	70.0-130			V8150	09Nov12 1000 by 301	09Nov12 1018 by 301		
Tetrachloroethene	20 ug/l	92.2	45.0-150			V8150	09Nov12 1000 by 301	09Nov12 1018 by 301		
Trichloroethene	20 ug/l	89.3	70.0-125			V8150	09Nov12 1000 by 301	09Nov12 1018 by 301		
Vinyl chloride	20 ug/l	74.4	50.0-145			V8150	09Nov12 1000 by 301	09Nov12 1018 by 301		
TCLP Volatile Organic Compounds Surrogates:										
4-Bromofluorobenzene	50 ug/l	101	75.0-120			V8150	09Nov12 1000 by 301	09Nov12 1018 by 301		
Dibromofluoromethane	50 ug/l	98.9	85.0-115			V8150	09Nov12 1000 by 301	09Nov12 1018 by 301		
Toluene-D8	50 ug/l	94.7	85.0-120			V8150	09Nov12 1000 by 301	09Nov12 1018 by 301		
TCLP Base/Neutral and Acid Compounds										
Cresols	80 ug/l	72.5	38.0-98.0			B7980	12Nov12 1045 by 301	12Nov12 1802 by 301		
1,4-Dichlorobenzene	40 ug/l	70.8	30.0-100			B7980	12Nov12 1045 by 301	12Nov12 1802 by 301		
2,4-Dinitrotoluene	40 ug/l	72.0	50.0-120			B7980	12Nov12 1045 by 301	12Nov12 1802 by 301		
Hexachlorobenzene	40 ug/l	81.8	50.0-110			B7980	12Nov12 1045 by 301	12Nov12 1802 by 301		
Hexachlorobutadiene	40 ug/l	72.5	25.0-105			B7980	12Nov12 1045 by 301	12Nov12 1802 by 301		
Hexachloroethane	40 ug/l	70.0	30.0-100			B7980	12Nov12 1045 by 301	12Nov12 1802 by 301		
Nitrobenzene	40 ug/l	79.2	45.0-110			B7980	12Nov12 1045 by 301	12Nov12 1802 by 301		
Pentachlorophenol	40 ug/l	51.5	40.0-115			B7980	12Nov12 1045 by 301	12Nov12 1802 by 301		
Pyridine	40 ug/l	38.5	0.100-85.7			B7980	12Nov12 1045 by 301	12Nov12 1802 by 301		
2,4,5-Trichlorophenol	40 ug/l	80.0	50.0-110			B7980	12Nov12 1045 by 301	12Nov12 1802 by 301		
2,4,6-Trichlorophenol	40 ug/l	79.8	50.0-115			B7980	12Nov12 1045 by 301	12Nov12 1802 by 301		
TCLP Base/Neutral and Acid Compounds Surrogates:										
2-Fluorobiphenyl	40 ug/l	81.0	50.0-110			B7980	12Nov12 1045 by 301	12Nov12 1802 by 301		
2-Fluorophenol	40 ug/l	62.0	20.0-110			B7980	12Nov12 1045 by 301	12Nov12 1802 by 301		
Nitrobenzene-D5	40 ug/l	81.8	40.0-110			B7980	12Nov12 1045 by 301	12Nov12 1802 by 301		
Terphenyl-D14	40 ug/l	83.5	50.0-135			B7980	12Nov12 1045 by 301	12Nov12 1802 by 301		



Georgia-Pacific Corporation
Post Office Box 520
Crossett, AR 71635

LABORATORY CONTROL SAMPLE RESULTS

Analyte	Spike Amount	%	Limits	RPD	Limit	Batch	Preparation Date	Analysis Date	Dil	Qual
TCLP Base/Neutral and Acid Compounds (Continued)										
TCLP Base/Neutral and Acid Compounds Surrogates:										
2,4,6-Tribromophenol	40 ug/l	86.8	40.0-125			B7980	12Nov12 1045 by 301	12Nov12 1802 by 301		



Georgia-Pacific Corporation
Post Office Box 520
Crossett, AR 71635

MATRIX SPIKE SAMPLE RESULTS

Analyte	Sample	Spike Amount	%	Limits	Batch	Preparation Date	Analysis Date	Dil	Qual
TCLP: Arsenic	162448-1	5 mg/l	99.6	75.0-125	S33493	13Nov12 1352 by 271	13Nov12 2039 by 305	5	D
	162448-1	5 mg/l	99.4	75.0-125	S33493	13Nov12 1352 by 271	13Nov12 2042 by 305	5	D
	Relative Percent Difference:		0.186	20.0	S33493				
TCLP: Barium	162448-1	0.5 mg/l	97.2	75.0-125	S33493	13Nov12 1352 by 271	13Nov12 2039 by 305	5	D
	162448-1	0.5 mg/l	96.7	75.0-125	S33493	13Nov12 1352 by 271	13Nov12 2042 by 305	5	D
	Relative Percent Difference:		0.461	20.0	S33493				
TCLP: Cadmium	162448-1	5 mg/l	97.9	75.0-125	S33493	13Nov12 1352 by 271	13Nov12 2039 by 305	5	D
	162448-1	5 mg/l	97.9	75.0-125	S33493	13Nov12 1352 by 271	13Nov12 2042 by 305	5	D
	Relative Percent Difference:		0.0288	20.0	S33493				
TCLP: Chromium	162448-1	0.5 mg/l	96.2	75.0-125	S33493	13Nov12 1352 by 271	13Nov12 2039 by 305	5	D
	162448-1	0.5 mg/l	96.0	75.0-125	S33493	13Nov12 1352 by 271	13Nov12 2042 by 305	5	D
	Relative Percent Difference:		0.288	20.0	S33493				
TCLP: Lead	162448-1	5 mg/l	98.1	75.0-125	S33493	13Nov12 1352 by 271	13Nov12 2039 by 305	5	D
	162448-1	5 mg/l	97.6	75.0-125	S33493	13Nov12 1352 by 271	13Nov12 2042 by 305	5	D
	Relative Percent Difference:		0.540	20.0	S33493				
TCLP: Selenium	162448-1	5 mg/l	89.1	75.0-125	S33493	13Nov12 1352 by 271	13Nov12 2039 by 305	5	D
	162448-1	5 mg/l	88.7	75.0-125	S33493	13Nov12 1352 by 271	13Nov12 2042 by 305	5	D
	Relative Percent Difference:		0.444	20.0	S33493				
TCLP: Silver	162448-1	0.1 mg/l	93.1	75.0-125	S33493	13Nov12 1352 by 271	13Nov12 2039 by 305	5	D
	162448-1	0.1 mg/l	92.9	75.0-125	S33493	13Nov12 1352 by 271	13Nov12 2042 by 305	5	D
	Relative Percent Difference:		0.172	20.0	S33493				
TCLP: Mercury	162448-1	0.0025 mg/l	89.4	70.0-130	S33492	13Nov12 1351 by 271	15Nov12 1138 by 271	40	D
	162448-1	0.0025 mg/l	93.8	70.0-130	S33492	13Nov12 1351 by 271	15Nov12 1143 by 271	40	D
	Relative Percent Difference:		4.79	20.0	S33492				
TCLP Volatile Organic Compounds									
Benzene	162198-1	20 ug/l	82.1	80.0-120	V8150	09Nov12 1000 by 301	09Nov12 1354 by 301	100	D
2-Butanone	162198-1	40 ug/l	82.6	30.0-150	V8150	09Nov12 1000 by 301	09Nov12 1354 by 301	100	D
Carbon tetrachloride	162198-1	20 ug/l	76.6	65.0-140	V8150	09Nov12 1000 by 301	09Nov12 1354 by 301	100	D
Chlorobenzene	162198-1	20 ug/l	80.9	80.0-120	V8150	09Nov12 1000 by 301	09Nov12 1354 by 301	100	D
Chloroform	162198-1	20 ug/l	81.6	65.0-135	V8150	09Nov12 1000 by 301	09Nov12 1354 by 301	100	D
1,2-Dichloroethane	162198-1	20 ug/l	83.2	70.0-130	V8150	09Nov12 1000 by 301	09Nov12 1354 by 301	100	D
1,1-Dichloroethene	162198-1	20 ug/l	83.8	70.0-130	V8150	09Nov12 1000 by 301	09Nov12 1354 by 301	100	D
Tetrachloroethene	162198-1	20 ug/l	82.2	45.0-150	V8150	09Nov12 1000 by 301	09Nov12 1354 by 301	100	D
Trichloroethene	162198-1	20 ug/l	81.5	70.0-125	V8150	09Nov12 1000 by 301	09Nov12 1354 by 301	100	D
Vinyl chloride	162198-1	20 ug/l	65.9	50.0-145	V8150	09Nov12 1000 by 301	09Nov12 1354 by 301	100	D
TCLP Volatile Organic Compounds Surrogates:									
4-Bromofluorobenzene	162198-1	50 ug/l	100	75.0-120	V8150	09Nov12 1000 by 301	09Nov12 1354 by 301	100	D
Dibromofluoromethane	162198-1	50 ug/l	98.2	85.0-115	V8150	09Nov12 1000 by 301	09Nov12 1354 by 301	100	D
Toluene-D8	162198-1	50 ug/l	94.0	85.0-120	V8150	09Nov12 1000 by 301	09Nov12 1354 by 301	100	D
TCLP Base/Neutral and Acid Compounds									
Cresols	162324-1	80 ug/l	62.4	35.2-107	B7980	12Nov12 1045 by 301	12Nov12 1837 by 301	10	D
	162324-1	80 ug/l	69.5	35.2-107	B7980	12Nov12 1045 by 301	12Nov12 1911 by 301	10	D
	Relative Percent Difference:		10.8	30.0	B7980				



Georgia-Pacific Corporation
Post Office Box 520
Crossett, AR 71635

MATRIX SPIKE SAMPLE RESULTS

Analyte	Sample	Spike Amount	%	Limits	Batch	Preparation Date	Analysis Date	Dil	Qual
1,4-Dichlorobenzene	162324-1	40 ug/l	70.0	30.0-100	B7980	12Nov12 1045 by 301	12Nov12 1837 by 301	10	D
	162324-1	40 ug/l	74.5	30.0-100	B7980	12Nov12 1045 by 301	12Nov12 1911 by 301	10	D
	Relative Percent Difference:		6.23	30.0	B7980				
2,4-Dinitrotoluene	162324-1	40 ug/l	67.8	50.0-120	B7980	12Nov12 1045 by 301	12Nov12 1837 by 301	10	D
	162324-1	40 ug/l	78.2	50.0-120	B7980	12Nov12 1045 by 301	12Nov12 1911 by 301	10	D
	Relative Percent Difference:		14.4	30.0	B7980				
Hexachlorobenzene	162324-1	40 ug/l	81.0	50.0-110	B7980	12Nov12 1045 by 301	12Nov12 1837 by 301	10	D
	162324-1	40 ug/l	85.0	50.0-110	B7980	12Nov12 1045 by 301	12Nov12 1911 by 301	10	D
	Relative Percent Difference:		4.82	30.0	B7980				
Hexachlorobutadiene	162324-1	40 ug/l	71.8	25.0-105	B7980	12Nov12 1045 by 301	12Nov12 1837 by 301	10	D
	162324-1	40 ug/l	76.8	25.0-105	B7980	12Nov12 1045 by 301	12Nov12 1911 by 301	10	D
	Relative Percent Difference:		6.73	30.0	B7980				
Hexachloroethane	162324-1	40 ug/l	69.8	30.0-100	B7980	12Nov12 1045 by 301	12Nov12 1837 by 301	10	D
	162324-1	40 ug/l	74.2	30.0-100	B7980	12Nov12 1045 by 301	12Nov12 1911 by 301	10	D
	Relative Percent Difference:		6.25	30.0	B7980				
Nitrobenzene	162324-1	40 ug/l	77.2	45.0-110	B7980	12Nov12 1045 by 301	12Nov12 1837 by 301	10	D
	162324-1	40 ug/l	81.5	45.0-110	B7980	12Nov12 1045 by 301	12Nov12 1911 by 301	10	D
	Relative Percent Difference:		5.35	30.0	B7980				
Pentachlorophenol	162324-1	40 ug/l	54.2	40.0-115	B7980	12Nov12 1045 by 301	12Nov12 1837 by 301	10	D
	162324-1	40 ug/l	65.0	40.0-115	B7980	12Nov12 1045 by 301	12Nov12 1911 by 301	10	D
	Relative Percent Difference:		18.0	30.0	B7980				
Pyridine	162324-1	40 ug/l	41.5	0.100-73.6	B7980	12Nov12 1045 by 301	12Nov12 1837 by 301	10	D
	162324-1	40 ug/l	46.0	0.100-73.6	B7980	12Nov12 1045 by 301	12Nov12 1911 by 301	10	D
	Relative Percent Difference:		10.3	29.7	B7980				
2,4,5-Trichlorophenol	162324-1	40 ug/l	74.5	50.0-110	B7980	12Nov12 1045 by 301	12Nov12 1837 by 301	10	D
	162324-1	40 ug/l	81.0	50.0-110	B7980	12Nov12 1045 by 301	12Nov12 1911 by 301	10	D
	Relative Percent Difference:		8.36	30.0	B7980				
2,4,6-Trichlorophenol	162324-1	40 ug/l	74.5	50.0-115	B7980	12Nov12 1045 by 301	12Nov12 1837 by 301	10	D
	162324-1	40 ug/l	81.2	50.0-115	B7980	12Nov12 1045 by 301	12Nov12 1911 by 301	10	D
	Relative Percent Difference:		8.67	30.0	B7980				
TCLP Base/Neutral and Acid Compounds Surrogates:									
2-Fluorobiphenyl	162324-1	40 ug/l	78.8	50.0-110	B7980	12Nov12 1045 by 301	12Nov12 1837 by 301		
	162324-1	40 ug/l	81.8	50.0-110	B7980	12Nov12 1045 by 301	12Nov12 1911 by 301		
2-Fluorophenol	162324-1	40 ug/l	58.0	20.0-110	B7980	12Nov12 1045 by 301	12Nov12 1837 by 301		
	162324-1	40 ug/l	63.2	20.0-110	B7980	12Nov12 1045 by 301	12Nov12 1911 by 301		
Nitrobenzene-D5	162324-1	40 ug/l	78.0	40.0-110	B7980	12Nov12 1045 by 301	12Nov12 1837 by 301		
	162324-1	40 ug/l	83.0	40.0-110	B7980	12Nov12 1045 by 301	12Nov12 1911 by 301		
Terphenyl-D14	162324-1	40 ug/l	69.5	50.0-135	B7980	12Nov12 1045 by 301	12Nov12 1837 by 301		
	162324-1	40 ug/l	73.5	50.0-135	B7980	12Nov12 1045 by 301	12Nov12 1911 by 301		
2,4,6-Tribromophenol	162324-1	40 ug/l	80.5	40.0-125	B7980	12Nov12 1045 by 301	12Nov12 1837 by 301		
	162324-1	40 ug/l	85.2	40.0-125	B7980	12Nov12 1045 by 301	12Nov12 1911 by 301		

Georgia-Pacific Corporation
Post Office Box 520
Crossett, AR 71635

LABORATORY BLANK RESULTS

Analyte	Result	RL	PQL	QC Sample	Preparation Date	Analysis Date	Qual
TCLP: Arsenic	< 0.05 mg/l	0.05	0.05	S33493-1	13Nov12 1352 by 271	13Nov12 2030 by 305	
TCLP: Barium	< 0.002 mg/l	0.002	0.002	S33493-1	13Nov12 1352 by 271	13Nov12 2030 by 305	
TCLP: Cadmium	< 0.004 mg/l	0.004	0.004	S33493-1	13Nov12 1352 by 271	13Nov12 2030 by 305	
TCLP: Chromium	< 0.007 mg/l	0.007	0.007	S33493-1	13Nov12 1352 by 271	13Nov12 2030 by 305	
TCLP: Lead	< 0.04 mg/l	0.04	0.04	S33493-1	13Nov12 1352 by 271	13Nov12 2030 by 305	
TCLP: Selenium	< 0.07 mg/l	0.07	0.07	S33493-1	13Nov12 1352 by 271	13Nov12 2030 by 305	
TCLP: Silver	< 0.007 mg/l	0.007	0.007	S33493-1	13Nov12 1352 by 271	13Nov12 2030 by 305	
TCLP: Mercury	< 0.0002 mg/l	0.0002	0.0002	S33492-1	13Nov12 1351 by 271	15Nov12 1128 by 271	
TCLP Base/Neutral and Acid Compounds							
Cresols	< 0.010 mg/l	0.010	0.010	B7980-1	12Nov12 1045 by 301	12Nov12 1727 by 301	
1,4-Dichlorobenzene	< 0.0050 mg/l	0.0050	0.0050	B7980-1	12Nov12 1045 by 301	12Nov12 1727 by 301	
2,4-Dinitrotoluene	< 0.0050 mg/l	0.0050	0.0050	B7980-1	12Nov12 1045 by 301	12Nov12 1727 by 301	
Hexachlorobenzene	< 0.0050 mg/l	0.0050	0.0050	B7980-1	12Nov12 1045 by 301	12Nov12 1727 by 301	
Hexachlorobutadiene	< 0.0050 mg/l	0.0050	0.0050	B7980-1	12Nov12 1045 by 301	12Nov12 1727 by 301	
Hexachloroethane	< 0.0050 mg/l	0.0050	0.0050	B7980-1	12Nov12 1045 by 301	12Nov12 1727 by 301	
Nitrobenzene	< 0.0050 mg/l	0.0050	0.0050	B7980-1	12Nov12 1045 by 301	12Nov12 1727 by 301	
Pentachlorophenol	< 0.0050 mg/l	0.0050	0.0050	B7980-1	12Nov12 1045 by 301	12Nov12 1727 by 301	
Pyridine	< 0.0050 mg/l	0.0050	0.0050	B7980-1	12Nov12 1045 by 301	12Nov12 1727 by 301	
2,4,5-Trichlorophenol	< 0.0050 mg/l	0.0050	0.0050	B7980-1	12Nov12 1045 by 301	12Nov12 1727 by 301	
2,4,6-Trichlorophenol	< 0.0050 mg/l	0.0050	0.0050	B7980-1	12Nov12 1045 by 301	12Nov12 1727 by 301	
TCLP Base/Neutral and Acid Compounds Surrogates:							
2-Fluorobiphenyl (50.0-110%)	81.8 %			B7980-1	12Nov12 1045 by 301	12Nov12 1727 by 301	
2-Fluorophenol (20.0-110%)	63.0 %			B7980-1	12Nov12 1045 by 301	12Nov12 1727 by 301	
Nitrobenzene-D5 (40.0-110%)	84.8 %			B7980-1	12Nov12 1045 by 301	12Nov12 1727 by 301	
Terphenyl-D14 (50.0-135%)	91.0 %			B7980-1	12Nov12 1045 by 301	12Nov12 1727 by 301	
2,4,6-Tribromophenol (40.0-125%)	64.2 %			B7980-1	12Nov12 1045 by 301	12Nov12 1727 by 301	
TCLP Volatile Organic Compounds							
Benzene	< 0.0050 mg/l	0.0050	0.0050	V8150-1	09Nov12 1000 by 301	09Nov12 1453 by 301	
2-Butanone	< 0.010 mg/l	0.010	0.010	V8150-1	09Nov12 1000 by 301	09Nov12 1453 by 301	
Carbon tetrachloride	< 0.0020 mg/l	0.0020	0.0020	V8150-1	09Nov12 1000 by 301	09Nov12 1453 by 301	
Chlorobenzene	< 0.0050 mg/l	0.0050	0.0050	V8150-1	09Nov12 1000 by 301	09Nov12 1453 by 301	
Chloroform	< 0.0050 mg/l	0.0050	0.0050	V8150-1	09Nov12 1000 by 301	09Nov12 1453 by 301	
1,2-Dichloroethane	< 0.0050 mg/l	0.0050	0.0050	V8150-1	09Nov12 1000 by 301	09Nov12 1453 by 301	
1,1-Dichloroethene	< 0.0050 mg/l	0.0050	0.0050	V8150-1	09Nov12 1000 by 301	09Nov12 1453 by 301	
Tetrachloroethene	< 0.0050 mg/l	0.0050	0.0050	V8150-1	09Nov12 1000 by 301	09Nov12 1453 by 301	
Trichloroethene	< 0.0050 mg/l	0.0050	0.0050	V8150-1	09Nov12 1000 by 301	09Nov12 1453 by 301	
Vinyl chloride	< 0.0020 mg/l	0.0020	0.0020	V8150-1	09Nov12 1000 by 301	09Nov12 1453 by 301	
TCLP Volatile Organic Compounds Surrogates:							
4-Bromofluorobenzene (75.0-120%)	98.2 %			V8150-1	09Nov12 1000 by 301	09Nov12 1453 by 301	
Dibromofluoromethane (85.0-115%)	97.8 %			V8150-1	09Nov12 1000 by 301	09Nov12 1453 by 301	
Toluene-D8 (85.0-120%)	92.5 %			V8150-1	09Nov12 1000 by 301	09Nov12 1453 by 301	

APPENDIX C

Boiler Ash Analytical Results

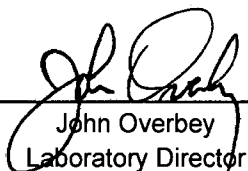


Georgia-Pacific Chemicals, LLC-Chemical Plant
ATTN: Mr. Tom Hudson
Highway 82 and Papermill Road
Crossett, AR 71635

This report contains the analytical results and supporting information for samples submitted on November 28, 2012. Attached please find a copy of the Chain of Custody and/or other documents received. Note that any remaining sample will be discarded two weeks from the original report date unless other arrangements are made.

This report is intended for the sole use of the client listed above. Assessment of the data requires access to the entire document.

This report has been reviewed by the Laboratory Director or a qualified designee.



John Overbey
Laboratory Director

This document has been distributed to the following:

PDF cc: Georgia-Pacific Chemicals, LLC-Chemical Plant
ATTN: Mr. Tom Hudson
thomas.hudson@gapac.com



Georgia-Pacific Chemicals, LLC-Chemical
Plant
Highway 82 and Papermill Road
Crossett, AR 71635

SAMPLE INFORMATION

Project Description:

Two (2) ash sample(s) received on November 28, 2012
Ash
P.O. No. P554122934

Receipt Details:

A Chain of Custody was provided. The samples were delivered in one (1) ice chest.
Ice chest #1 was delivered with shipping documentation.

Each sample container was checked for proper labeling, including date and time sampled. Sample containers were reviewed for proper type, adequate volume, integrity, temperature, preservation, and holding times. Any exceptions are noted below:

Sample Identification:

<u>Laboratory ID</u>	<u>Client Sample ID</u>	<u>Sampled Date/Time</u>	<u>Notes</u>
162782-1	Ash Pond 11/27/12 9:15	27-Nov-2012 0915	
162782-2	Ash Basin 11/27/12 9:15	27-Nov-2012 0915	

Qualifiers:

- D Result is from a secondary dilution factor
- H Analytical holding time exceeded regulatory requirements

Case Narrative:

Analysis of soils/sludges are reported on a dry-weight basis unless otherwise specified.

References:

- "Methods for Chemical Analysis of Water and Wastes", EPA/600/4-79-020 (Mar 1983) with updates and supplements EPA/600/5-91-010 (Jun 1991), EPA/600/R-92-129 (Aug 1992) and EPA/600/R-93-100 (Aug 1993).
- "Test Methods for Evaluating Solid Waste Physical/Chemical Methods (SW846)", Third Edition.
- "Standard Methods for the Examination of Water and Wastewaters", 21st edition.
- "American Society for Testing and Materials" (ASTM).
- "Association of Analytical Chemists" (AOAC).



Georgia-Pacific Chemicals, LLC-Chemical Plant
Highway 82 and Papermill Road
Crossett, AR 71635

ANALYTICAL RESULTS

AIC No. 162782-1

Sample Identification: Ash Pond 11/27/12 9:15

Analyte	Result	RL	Units	Qualifier
TCLP: Solids EPA 1311	100 Analyzed: 28-Nov-2012 1800 by 271	0.5	% Batch: S33489	
TCLP: Arsenic EPA 3010A, 6010C Prep: 30-Nov-2012 0847 by 271	< 0.3 Analyzed: 30-Nov-2012 1128 by 305	0.3	mg/l Batch: S33569	D Dil: 5
TCLP: Barium EPA 3010A, 6010C Prep: 30-Nov-2012 0847 by 271	2.2 Analyzed: 30-Nov-2012 1128 by 305	0.01	mg/l Batch: S33569	D Dil: 5
TCLP: Cadmium EPA 3010A, 6010C Prep: 30-Nov-2012 0847 by 271	< 0.02 Analyzed: 30-Nov-2012 1128 by 305	0.02	mg/l Batch: S33569	D Dil: 5
TCLP: Chromium EPA 3010A, 6010C Prep: 30-Nov-2012 0847 by 271	< 0.04 Analyzed: 30-Nov-2012 1128 by 305	0.04	mg/l Batch: S33569	D Dil: 5
TCLP: Lead EPA 3010A, 6010C Prep: 30-Nov-2012 0847 by 271	< 0.2 Analyzed: 30-Nov-2012 1128 by 305	0.2	mg/l Batch: S33569	D Dil: 5
TCLP: Selenium EPA 3010A, 6010C Prep: 30-Nov-2012 0847 by 271	< 0.4 Analyzed: 30-Nov-2012 1128 by 305	0.4	mg/l Batch: S33569	D Dil: 5
TCLP: Silver EPA 3010A, 6010C Prep: 30-Nov-2012 0847 by 271	< 0.04 Analyzed: 30-Nov-2012 1128 by 305	0.04	mg/l Batch: S33569	D Dil: 5
TCLP: Mercury EPA 7470A Prep: 30-Nov-2012 0848 by 271	< 0.008 Analyzed: 30-Nov-2012 1747 by 271	0.008	mg/l Batch: S33570	D Dil: 40
pH EPA 9045C Prep: 28-Nov-2012 1356 by 306	8.6 Analyzed: 28-Nov-2012 1535 by 306		Units Batch: W41801	H
TCLP Chlorinated Herbicides By EPA 8321A				
2,4-D EPA 8321A Analyzed: 29-Nov-2012 1448 by 07	< 0.20	0.20	mg/l Batch: C15571	
2,4,5-TP EPA 8321A Analyzed: 29-Nov-2012 1448 by 07	< 0.10	0.10	mg/l Batch: C15571	
TCLP Base/Neutral and Acid Compounds By EPA 3510C, 8270D				
Cresols EPA 3510C, 8270D Prep: 29-Nov-2012 1352 by 301	< 0.10 Analyzed: 29-Nov-2012 2153 by 301	0.10	mg/l Batch: B8009	D Dil: 10
1,4-Dichlorobenzene EPA 3510C, 8270D Prep: 29-Nov-2012 1352 by 301	< 0.050 Analyzed: 29-Nov-2012 2153 by 301	0.050	mg/l Batch: B8009	D Dil: 10
2,4-Dinitrotoluene EPA 3510C, 8270D Prep: 29-Nov-2012 1352 by 301	< 0.050 Analyzed: 29-Nov-2012 2153 by 301	0.050	mg/l Batch: B8009	D Dil: 10
Hexachlorobenzene EPA 3510C, 8270D Prep: 29-Nov-2012 1352 by 301	< 0.050 Analyzed: 29-Nov-2012 2153 by 301	0.050	mg/l Batch: B8009	D Dil: 10
Hexachlorobutadiene EPA 3510C, 8270D Prep: 29-Nov-2012 1352 by 301	< 0.050 Analyzed: 29-Nov-2012 2153 by 301	0.050	mg/l Batch: B8009	D Dil: 10
Hexachloroethane EPA 3510C, 8270D Prep: 29-Nov-2012 1352 by 301	< 0.050 Analyzed: 29-Nov-2012 2153 by 301	0.050	mg/l Batch: B8009	D Dil: 10
Nitrobenzene EPA 3510C, 8270D Prep: 29-Nov-2012 1352 by 301	< 0.050 Analyzed: 29-Nov-2012 2153 by 301	0.050	mg/l Batch: B8009	D Dil: 10



Georgia-Pacific Chemicals, LLC-Chemical
Plant
Highway 82 and Papermill Road
Crossett, AR 71635

ANALYTICAL RESULTS

AIC No. 162782-1 (Continued)

Sample Identification: Ash Pond 11/27/12 9:15

Analyte	Result	RL	Units	Qualifier
TCLP Base/Neutral and Acid Compounds By EPA 3510C, 8270D (Continued)				
Pentachlorophenol EPA 3510C, 8270D	< 0.050	0.050	mg/l	D
Prep: 29-Nov-2012 1352 by 301	Analyzed: 29-Nov-2012 2153 by 301		Batch: B8009	Dil: 10
Pyridine EPA 3510C, 8270D	< 0.050	0.050	mg/l	D
Prep: 29-Nov-2012 1352 by 301	Analyzed: 29-Nov-2012 2153 by 301		Batch: B8009	Dil: 10
2,4,5-Trichlorophenol EPA 3510C, 8270D	< 0.050	0.050	mg/l	D
Prep: 29-Nov-2012 1352 by 301	Analyzed: 29-Nov-2012 2153 by 301		Batch: B8009	Dil: 10
2,4,6-Trichlorophenol EPA 3510C, 8270D	< 0.050	0.050	mg/l	D
Prep: 29-Nov-2012 1352 by 301	Analyzed: 29-Nov-2012 2153 by 301		Batch: B8009	Dil: 10
Surrogate: 2-Fluorobiphenyl (50.0-110%) EPA 3510C, 8270D	88.5		%	
Prep: 29-Nov-2012 1352 by 301	Analyzed: 29-Nov-2012 2153 by 301		Batch: B8009	
Surrogate: 2-Fluorophenol (20.0-110%) EPA 3510C, 8270D	62.2		%	
Prep: 29-Nov-2012 1352 by 301	Analyzed: 29-Nov-2012 2153 by 301		Batch: B8009	
Surrogate: Nitrobenzene-D5 (40.0-110%) EPA 3510C, 8270D	84.0		%	
Prep: 29-Nov-2012 1352 by 301	Analyzed: 29-Nov-2012 2153 by 301		Batch: B8009	
Surrogate: Terphenyl-D14 (50.0-135%) EPA 3510C, 8270D	99.2		%	
Prep: 29-Nov-2012 1352 by 301	Analyzed: 29-Nov-2012 2153 by 301		Batch: B8009	
Surrogate: 2,4,6-Tribromophenol (40.0-125%) EPA 3510C, 8270D	85.0		%	
Prep: 29-Nov-2012 1352 by 301	Analyzed: 29-Nov-2012 2153 by 301		Batch: B8009	
TCLP Volatile Organic Compounds By EPA 5030C, 8260C				
Benzene EPA 5030C, 8260C	< 0.50	0.50	mg/l	D
Prep: 29-Nov-2012 1515 by 301	Analyzed: 29-Nov-2012 1734 by 301		Batch: V8161	Dil: 100
Carbon tetrachloride EPA 5030C, 8260C	< 0.20	0.20	mg/l	D
Prep: 29-Nov-2012 1515 by 301	Analyzed: 29-Nov-2012 1734 by 301		Batch: V8161	Dil: 100
Chlorobenzene EPA 5030C, 8260C	< 0.50	0.50	mg/l	D
Prep: 29-Nov-2012 1515 by 301	Analyzed: 29-Nov-2012 1734 by 301		Batch: V8161	Dil: 100
Chloroform EPA 5030C, 8260C	< 0.50	0.50	mg/l	D
Prep: 29-Nov-2012 1515 by 301	Analyzed: 29-Nov-2012 1734 by 301		Batch: V8161	Dil: 100
1,2-Dichloroethane EPA 5030C, 8260C	< 0.50	0.50	mg/l	D
Prep: 29-Nov-2012 1515 by 301	Analyzed: 29-Nov-2012 1734 by 301		Batch: V8161	Dil: 100
1,1-Dichloroethylene EPA 5030C, 8260C	< 0.50	0.50	mg/l	D
Prep: 29-Nov-2012 1515 by 301	Analyzed: 29-Nov-2012 1734 by 301		Batch: V8161	Dil: 100
Methyl ethyl ketone EPA 5030C, 8260C	< 1.0	1.0	mg/l	D
Prep: 29-Nov-2012 1515 by 301	Analyzed: 29-Nov-2012 1734 by 301		Batch: V8161	Dil: 100
Tetrachloroethylene EPA 5030C, 8260C	< 0.50	0.50	mg/l	D
Prep: 29-Nov-2012 1515 by 301	Analyzed: 29-Nov-2012 1734 by 301		Batch: V8161	Dil: 100
Trichloroethylene EPA 5030C, 8260C	< 0.50	0.50	mg/l	D
Prep: 29-Nov-2012 1515 by 301	Analyzed: 29-Nov-2012 1734 by 301		Batch: V8161	Dil: 100
Vinyl chloride EPA 5030C, 8260C	< 0.20	0.20	mg/l	D
Prep: 29-Nov-2012 1515 by 301	Analyzed: 29-Nov-2012 1734 by 301		Batch: V8161	Dil: 100

Georgia-Pacific Chemicals, LLC-Chemical Plant
Highway 82 and Papermill Road
Crossett, AR 71635

ANALYTICAL RESULTS

AIC No. 162782-1 (Continued)

Sample Identification: Ash Pond 11/27/12 9:15

Analyte	Result	RL	Units	Qualifier
TCLP Volatile Organic Compounds By EPA 5030C, 8260C (Continued)				
Surrogate: 4-Bromofluorobenzene (75.0-120%) EPA 5030C, 8260C	97.8		%	D
Prep: 29-Nov-2012 1515 by 301	Analyzed: 29-Nov-2012 1734 by 301		Batch: V8161	Dil: 100
Surrogate: Dibromofluoromethane (85.0-115%) EPA 5030C, 8260C	92.1		%	D
Prep: 29-Nov-2012 1515 by 301	Analyzed: 29-Nov-2012 1734 by 301		Batch: V8161	Dil: 100
Surrogate: Toluene-D8 (85.0-120%) EPA 5030C, 8260C	97.8		%	D
Prep: 29-Nov-2012 1515 by 301	Analyzed: 29-Nov-2012 1734 by 301		Batch: V8161	Dil: 100
TCLP Organochlorine Pesticides By EPA 3510C, 8081B				
Chlordane EPA 3510C, 8081B	< 0.010	0.010	mg/l	D
Prep: 29-Nov-2012 1449 by 301	Analyzed: 29-Nov-2012 1946 by 288		Batch: G9084	Dil: 10
Endrin EPA 3510C, 8081B	< 0.0020	0.0020	mg/l	D
Prep: 29-Nov-2012 1449 by 301	Analyzed: 29-Nov-2012 1946 by 288		Batch: G9084	Dil: 10
gamma-BHC EPA 3510C, 8081B	< 0.0020	0.0020	mg/l	D
Prep: 29-Nov-2012 1449 by 301	Analyzed: 29-Nov-2012 1946 by 288		Batch: G9084	Dil: 10
Heptachlor EPA 3510C, 8081B	< 0.0010	0.0010	mg/l	D
Prep: 29-Nov-2012 1449 by 301	Analyzed: 29-Nov-2012 1946 by 288		Batch: G9084	Dil: 10
Heptachlor epoxide EPA 3510C, 8081B	< 0.0010	0.0010	mg/l	D
Prep: 29-Nov-2012 1449 by 301	Analyzed: 29-Nov-2012 1946 by 288		Batch: G9084	Dil: 10
Methoxychlor EPA 3510C, 8081B	< 0.0020	0.0020	mg/l	D
Prep: 29-Nov-2012 1449 by 301	Analyzed: 29-Nov-2012 1946 by 288		Batch: G9084	Dil: 10
Toxaphene EPA 3510C, 8081B	< 0.020	0.020	mg/l	D
Prep: 29-Nov-2012 1449 by 301	Analyzed: 29-Nov-2012 1946 by 288		Batch: G9084	Dil: 10
Surrogate: Decachlorobiphenyl (30.0-135%) EPA 3510C, 8081B	99.7		%	
Prep: 29-Nov-2012 1449 by 301	Analyzed: 29-Nov-2012 1946 by 288		Batch: G9084	
Surrogate: Tetrachloro-m-xylene (25.0-140%) EPA 3510C, 8081B	117		%	
Prep: 29-Nov-2012 1449 by 301	Analyzed: 29-Nov-2012 1946 by 288		Batch: G9084	

AIC No. 162782-2

Sample Identification: Ash Basin 11/27/12 9:15

Analyte	Result	RL	Units	Qualifier
TCLP: Solids EPA 1311	100	0.5	%	
	Analyzed: 28-Nov-2012 1800 by 271		Batch: S33489	
TCLP: Arsenic EPA 3010A, 6010C	< 0.3	0.3	mg/l	D
Prep: 30-Nov-2012 0847 by 271	Analyzed: 30-Nov-2012 1131 by 305		Batch: S33569	Dil: 5
TCLP: Barium EPA 3010A, 6010C	1.6	0.01	mg/l	D
Prep: 30-Nov-2012 0847 by 271	Analyzed: 30-Nov-2012 1131 by 305		Batch: S33569	Dil: 5
TCLP: Cadmium EPA 3010A, 6010C	< 0.02	0.02	mg/l	D
Prep: 30-Nov-2012 0847 by 271	Analyzed: 30-Nov-2012 1131 by 305		Batch: S33569	Dil: 5
TCLP: Chromium EPA 3010A, 6010C	< 0.04	0.04	mg/l	D
Prep: 30-Nov-2012 0847 by 271	Analyzed: 30-Nov-2012 1131 by 305		Batch: S33569	Dil: 5

Georgia-Pacific Chemicals, LLC-Chemical Plant
Highway 82 and Papermill Road
Crossett, AR 71635

ANALYTICAL RESULTS

AIC No. 162782-2 (Continued)

Sample Identification: Ash Basin 11/27/12 9:15

Analyte	Result	RL	Units	Qualifier
TCLP: Lead EPA 3010A, 6010C Prep: 30-Nov-2012 0847 by 271	< 0.2	0.2	mg/l	D
	Analyzed: 30-Nov-2012 1131 by 305		Batch: S33569	Dil: 5
TCLP: Selenium EPA 3010A, 6010C Prep: 30-Nov-2012 0847 by 271	< 0.4	0.4	mg/l	D
	Analyzed: 30-Nov-2012 1131 by 305		Batch: S33569	Dil: 5
TCLP: Silver EPA 3010A, 6010C Prep: 30-Nov-2012 0847 by 271	< 0.04	0.04	mg/l	D
	Analyzed: 30-Nov-2012 1131 by 305		Batch: S33569	Dil: 5
TCLP: Mercury EPA 7470A Prep: 30-Nov-2012 0848 by 271	< 0.008	0.008	mg/l	D
	Analyzed: 30-Nov-2012 1752 by 271		Batch: S33570	Dil: 40
pH EPA 9045C Prep: 28-Nov-2012 1356 by 306	7.8		Units	H
	Analyzed: 28-Nov-2012 1535 by 306		Batch: W41801	
TCLP Chlorinated Herbicides By EPA 8321A				
2,4-D EPA 8321A	< 0.20	0.20	mg/l	
	Analyzed: 29-Nov-2012 1448 by 07		Batch: C15571	
2,4,5-TP EPA 8321A	< 0.10	0.10	mg/l	
	Analyzed: 29-Nov-2012 1448 by 07		Batch: C15571	
TCLP Base/Neutral and Acid Compounds By EPA 3510C, 8270D				
Cresols EPA 3510C, 8270D Prep: 29-Nov-2012 1352 by 301	< 0.10	0.10	mg/l	D
	Analyzed: 29-Nov-2012 2228 by 301		Batch: B8009	Dil: 10
1,4-Dichlorobenzene EPA 3510C, 8270D Prep: 29-Nov-2012 1352 by 301	< 0.050	0.050	mg/l	D
	Analyzed: 29-Nov-2012 2228 by 301		Batch: B8009	Dil: 10
2,4-Dinitrotoluene EPA 3510C, 8270D Prep: 29-Nov-2012 1352 by 301	< 0.050	0.050	mg/l	D
	Analyzed: 29-Nov-2012 2228 by 301		Batch: B8009	Dil: 10
Hexachlorobenzene EPA 3510C, 8270D Prep: 29-Nov-2012 1352 by 301	< 0.050	0.050	mg/l	D
	Analyzed: 29-Nov-2012 2228 by 301		Batch: B8009	Dil: 10
Hexachlorobutadiene EPA 3510C, 8270D Prep: 29-Nov-2012 1352 by 301	< 0.050	0.050	mg/l	D
	Analyzed: 29-Nov-2012 2228 by 301		Batch: B8009	Dil: 10
Hexachloroethane EPA 3510C, 8270D Prep: 29-Nov-2012 1352 by 301	< 0.050	0.050	mg/l	D
	Analyzed: 29-Nov-2012 2228 by 301		Batch: B8009	Dil: 10
Nitrobenzene EPA 3510C, 8270D Prep: 29-Nov-2012 1352 by 301	< 0.050	0.050	mg/l	D
	Analyzed: 29-Nov-2012 2228 by 301		Batch: B8009	Dil: 10
Pentachlorophenol EPA 3510C, 8270D Prep: 29-Nov-2012 1352 by 301	< 0.050	0.050	mg/l	D
	Analyzed: 29-Nov-2012 2228 by 301		Batch: B8009	Dil: 10
Pyridine EPA 3510C, 8270D Prep: 29-Nov-2012 1352 by 301	< 0.050	0.050	mg/l	D
	Analyzed: 29-Nov-2012 2228 by 301		Batch: B8009	Dil: 10
2,4,5-Trichlorophenol EPA 3510C, 8270D Prep: 29-Nov-2012 1352 by 301	< 0.050	0.050	mg/l	D
	Analyzed: 29-Nov-2012 2228 by 301		Batch: B8009	Dil: 10
2,4,6-Trichlorophenol EPA 3510C, 8270D Prep: 29-Nov-2012 1352 by 301	< 0.050	0.050	mg/l	D
	Analyzed: 29-Nov-2012 2228 by 301		Batch: B8009	Dil: 10
Surrogate: 2-Fluorobiphenyl (50.0-110%) EPA 3510C, 8270D Prep: 29-Nov-2012 1352 by 301	86.5		%	
	Analyzed: 29-Nov-2012 2228 by 301		Batch: B8009	

Georgia-Pacific Chemicals, LLC-Chemical Plant
Highway 82 and Papermill Road
Crossett, AR 71635

ANALYTICAL RESULTS

AIC No. 162782-2 (Continued)

Sample Identification: Ash Basin 11/27/12 9:15

Analyte	Result	RL	Units	Qualifier
TCLP Base/Neutral and Acid Compounds By EPA 3510C, 8270D (Continued)				
Surrogate: 2-Fluorophenol (20.0-110%) EPA 3510C, 8270D	62.2		%	
Prep: 29-Nov-2012 1352 by 301	Analyzed: 29-Nov-2012 2228 by 301		Batch: B8009	
Surrogate: Nitrobenzene-D5 (40.0-110%) EPA 3510C, 8270D	81.5		%	
Prep: 29-Nov-2012 1352 by 301	Analyzed: 29-Nov-2012 2228 by 301		Batch: B8009	
Surrogate: Terphenyl-D14 (50.0-135%) EPA 3510C, 8270D	102		%	
Prep: 29-Nov-2012 1352 by 301	Analyzed: 29-Nov-2012 2228 by 301		Batch: B8009	
Surrogate: 2,4,6-Tribromophenol (40.0-125%) EPA 3510C, 8270D	90.2		%	
Prep: 29-Nov-2012 1352 by 301	Analyzed: 29-Nov-2012 2228 by 301		Batch: B8009	
TCLP Volatile Organic Compounds By EPA 5030C, 8260C				
Benzene EPA 5030C, 8260C	< 0.50	0.50	mg/l	D
Prep: 29-Nov-2012 1515 by 301	Analyzed: 29-Nov-2012 1832 by 301		Batch: V8161	Dil: 100
Carbon tetrachloride EPA 5030C, 8260C	< 0.20	0.20	mg/l	D
Prep: 29-Nov-2012 1515 by 301	Analyzed: 29-Nov-2012 1832 by 301		Batch: V8161	Dil: 100
Chlorobenzene EPA 5030C, 8260C	< 0.50	0.50	mg/l	D
Prep: 29-Nov-2012 1515 by 301	Analyzed: 29-Nov-2012 1832 by 301		Batch: V8161	Dil: 100
Chloroform EPA 5030C, 8260C	< 0.50	0.50	mg/l	D
Prep: 29-Nov-2012 1515 by 301	Analyzed: 29-Nov-2012 1832 by 301		Batch: V8161	Dil: 100
1,2-Dichloroethane EPA 5030C, 8260C	< 0.50	0.50	mg/l	D
Prep: 29-Nov-2012 1515 by 301	Analyzed: 29-Nov-2012 1832 by 301		Batch: V8161	Dil: 100
1,1-Dichloroethylene EPA 5030C, 8260C	< 0.50	0.50	mg/l	D
Prep: 29-Nov-2012 1515 by 301	Analyzed: 29-Nov-2012 1832 by 301		Batch: V8161	Dil: 100
Methyl ethyl ketone EPA 5030C, 8260C	< 1.0	1.0	mg/l	D
Prep: 29-Nov-2012 1515 by 301	Analyzed: 29-Nov-2012 1832 by 301		Batch: V8161	Dil: 100
Tetrachloroethylene EPA 5030C, 8260C	< 0.50	0.50	mg/l	D
Prep: 29-Nov-2012 1515 by 301	Analyzed: 29-Nov-2012 1832 by 301		Batch: V8161	Dil: 100
Trichloroethylene EPA 5030C, 8260C	< 0.50	0.50	mg/l	D
Prep: 29-Nov-2012 1515 by 301	Analyzed: 29-Nov-2012 1832 by 301		Batch: V8161	Dil: 100
Vinyl chloride EPA 5030C, 8260C	< 0.20	0.20	mg/l	D
Prep: 29-Nov-2012 1515 by 301	Analyzed: 29-Nov-2012 1832 by 301		Batch: V8161	Dil: 100
Surrogate: 4-Bromofluorobenzene (75.0-120%) EPA 5030C, 8260C	97.4		%	D
Prep: 29-Nov-2012 1515 by 301	Analyzed: 29-Nov-2012 1832 by 301		Batch: V8161	Dil: 100
Surrogate: Dibromofluoromethane (85.0-115%) EPA 5030C, 8260C	92.4		%	D
Prep: 29-Nov-2012 1515 by 301	Analyzed: 29-Nov-2012 1832 by 301		Batch: V8161	Dil: 100
Surrogate: Toluene-D8 (85.0-120%) EPA 5030C, 8260C	97.3		%	D
Prep: 29-Nov-2012 1515 by 301	Analyzed: 29-Nov-2012 1832 by 301		Batch: V8161	Dil: 100
TCLP Organochlorine Pesticides By EPA 3510C, 8081B				
Chlordane EPA 3510C, 8081B	< 0.010	0.010	mg/l	D
Prep: 29-Nov-2012 1449 by 301	Analyzed: 29-Nov-2012 2003 by 288		Batch: G9084	Dil: 10



Georgia-Pacific Chemicals, LLC-Chemical Plant
Highway 82 and Papermill Road
Crossett, AR 71635

ANALYTICAL RESULTS

AIC No. 162782-2 (Continued)

Sample Identification: Ash Basin 11/27/12 9:15

Analyte	Result	RL	Units	Qualifier
TCLP Organochlorine Pesticides By EPA 3510C, 8081B (Continued)				
Endrin EPA 3510C, 8081B	< 0.0020	0.0020	mg/l	D
Prep: 29-Nov-2012 1449 by 301	Analyzed: 29-Nov-2012 2003 by 288		Batch: G9084	Dil: 10
gamma-BHC EPA 3510C, 8081B	< 0.0020	0.0020	mg/l	D
Prep: 29-Nov-2012 1449 by 301	Analyzed: 29-Nov-2012 2003 by 288		Batch: G9084	Dil: 10
Heptachlor EPA 3510C, 8081B	< 0.0010	0.0010	mg/l	D
Prep: 29-Nov-2012 1449 by 301	Analyzed: 29-Nov-2012 2003 by 288		Batch: G9084	Dil: 10
Heptachlor epoxide EPA 3510C, 8081B	< 0.0010	0.0010	mg/l	D
Prep: 29-Nov-2012 1449 by 301	Analyzed: 29-Nov-2012 2003 by 288		Batch: G9084	Dil: 10
Methoxychlor EPA 3510C, 8081B	< 0.0020	0.0020	mg/l	D
Prep: 29-Nov-2012 1449 by 301	Analyzed: 29-Nov-2012 2003 by 288		Batch: G9084	Dil: 10
Toxaphene EPA 3510C, 8081B	< 0.020	0.020	mg/l	D
Prep: 29-Nov-2012 1449 by 301	Analyzed: 29-Nov-2012 2003 by 288		Batch: G9084	Dil: 10
Surrogate: Decachlorobiphenyl (30.0-135%) EPA 3510C, 8081B	97.8		%	
Prep: 29-Nov-2012 1449 by 301	Analyzed: 29-Nov-2012 2003 by 288		Batch: G9084	
Surrogate: Tetrachloro-m-xylene (25.0-140%) EPA 3510C, 8081B	91.5		%	
Prep: 29-Nov-2012 1449 by 301	Analyzed: 29-Nov-2012 2003 by 288		Batch: G9084	



Georgia-Pacific Chemicals, LLC-Chemical Plant
Highway 82 and Papermill Road
Crossett, AR 71635

DUPLICATE RESULTS

Analyte	AIC No.	Result	RPD		Preparation Date	Analysis Date	Dil	Qual
			RPD	Limit				
pH	162782-1	8.6 Units			28Nov12 1356 by 306	28Nov12 1535 by 306		H
	Batch: W41801 Duplicate	8.6 Units	0.348	5.00	28Nov12 1356 by 306	28Nov12 1535 by 306		H
TCLP Volatile Organic Compounds								
Benzene	162782-1	< 0.50 mg/l			29Nov12 1515 by 301	29Nov12 1734 by 301	100	D
	Batch: V8161 Duplicate	< 0.50 mg/l	0.00	30.0	29Nov12 1516 by 301	29Nov12 1803 by 301	100	D
Carbon tetrachloride	162782-1	< 0.20 mg/l			29Nov12 1515 by 301	29Nov12 1734 by 301	100	D
	Batch: V8161 Duplicate	< 0.20 mg/l	0.00	30.0	29Nov12 1516 by 301	29Nov12 1803 by 301	100	D
Chlorobenzene	162782-1	< 0.50 mg/l			29Nov12 1515 by 301	29Nov12 1734 by 301	100	D
	Batch: V8161 Duplicate	< 0.50 mg/l	0.00	30.0	29Nov12 1516 by 301	29Nov12 1803 by 301	100	D
Chloroform	162782-1	< 0.50 mg/l			29Nov12 1515 by 301	29Nov12 1734 by 301	100	D
	Batch: V8161 Duplicate	< 0.50 mg/l	0.00	30.0	29Nov12 1516 by 301	29Nov12 1803 by 301	100	D
1,2-Dichloroethane	162782-1	< 0.50 mg/l			29Nov12 1515 by 301	29Nov12 1734 by 301	100	D
	Batch: V8161 Duplicate	< 0.50 mg/l	0.00	30.0	29Nov12 1516 by 301	29Nov12 1803 by 301	100	D
1,1-Dichloroethylene	162782-1	< 0.50 mg/l			29Nov12 1515 by 301	29Nov12 1734 by 301	100	D
	Batch: V8161 Duplicate	< 0.50 mg/l	0.00	30.0	29Nov12 1516 by 301	29Nov12 1803 by 301	100	D
Methyl ethyl ketone	162782-1	< 1.0 mg/l			29Nov12 1515 by 301	29Nov12 1734 by 301	100	D
	Batch: V8161 Duplicate	< 1.0 mg/l	0.00	30.0	29Nov12 1516 by 301	29Nov12 1803 by 301	100	D
Tetrachloroethylene	162782-1	< 0.50 mg/l			29Nov12 1515 by 301	29Nov12 1734 by 301	100	D
	Batch: V8161 Duplicate	< 0.50 mg/l	0.00	30.0	29Nov12 1516 by 301	29Nov12 1803 by 301	100	D
Trichloroethylene	162782-1	< 0.50 mg/l			29Nov12 1515 by 301	29Nov12 1734 by 301	100	D
	Batch: V8161 Duplicate	< 0.50 mg/l	0.00	30.0	29Nov12 1516 by 301	29Nov12 1803 by 301	100	D
Vinyl chloride	162782-1	< 0.20 mg/l			29Nov12 1515 by 301	29Nov12 1734 by 301	100	D
	Batch: V8161 Duplicate	< 0.20 mg/l	0.00	30.0	29Nov12 1516 by 301	29Nov12 1803 by 301	100	D
4-Bromofluorobenzene (75.0-120%)	162782-1	97.8 %			29Nov12 1515 by 301	29Nov12 1734 by 301	100	D
	Batch: V8161 Duplicate	96.1 %			29Nov12 1516 by 301	29Nov12 1803 by 301	100	D
Dibromofluoromethane (85.0-115%)	162782-1	92.1 %			29Nov12 1515 by 301	29Nov12 1734 by 301	100	D
	Batch: V8161 Duplicate	91.0 %			29Nov12 1516 by 301	29Nov12 1803 by 301	100	D
Toluene-D8 (85.0-120%)	162782-1	97.8 %			29Nov12 1515 by 301	29Nov12 1734 by 301	100	D
	Batch: V8161 Duplicate	97.3 %			29Nov12 1516 by 301	29Nov12 1803 by 301	100	D



Georgia-Pacific Chemicals, LLC-Chemical Plant
Highway 82 and Papermill Road
Crossett, AR 71635

LABORATORY CONTROL SAMPLE RESULTS

Analyte	Spike Amount	%	Limits	RPD	Limit	Batch	Preparation Date	Analysis Date	Dil	Qual
TCLP: Arsenic	5 mg/l	92.0	85.0-115			S33569	30Nov12 0847 by 271	30Nov12 1119 by 305		
TCLP: Barium	0.5 mg/l	90.1	85.0-115			S33569	30Nov12 0847 by 271	30Nov12 1119 by 305		
TCLP: Cadmium	5 mg/l	90.7	85.0-115			S33569	30Nov12 0847 by 271	30Nov12 1119 by 305		
TCLP: Chromium	0.5 mg/l	88.6	85.0-115			S33569	30Nov12 0847 by 271	30Nov12 1119 by 305		
TCLP: Lead	5 mg/l	92.9	85.0-115			S33569	30Nov12 0847 by 271	30Nov12 1119 by 305		
TCLP: Selenium	5 mg/l	87.7	85.0-115			S33569	30Nov12 0847 by 271	30Nov12 1119 by 305		
TCLP: Silver	0.1 mg/l	96.9	85.0-115			S33569	30Nov12 0847 by 271	30Nov12 1119 by 305		
TCLP: Mercury	0.0025 mg/l	90.0	85.0-115			S33570	30Nov12 0848 by 271	30Nov12 1732 by 271		
pH	-	99.5	98.0-102			W41801	28Nov12 1356 by 306	28Nov12 1535 by 306		
TCLP Volatile Organic Compounds										
Benzene	20 ug/l	86.8	80.0-120			V8161	29Nov12 1516 by 301	29Nov12 1537 by 301		
2-Butanone	40 ug/l	122	30.0-150			V8161	29Nov12 1516 by 301	29Nov12 1537 by 301		
Carbon tetrachloride	20 ug/l	86.2	65.0-140			V8161	29Nov12 1516 by 301	29Nov12 1537 by 301		
Chlorobenzene	20 ug/l	91.1	80.0-120			V8161	29Nov12 1516 by 301	29Nov12 1537 by 301		
Chloroform	20 ug/l	82.0	65.0-135			V8161	29Nov12 1516 by 301	29Nov12 1537 by 301		
1,2-Dichloroethane	20 ug/l	88.5	70.0-130			V8161	29Nov12 1516 by 301	29Nov12 1537 by 301		
1,1-Dichloroethene	20 ug/l	108	70.0-130			V8161	29Nov12 1516 by 301	29Nov12 1537 by 301		
Tetrachloroethene	20 ug/l	96.2	45.0-150			V8161	29Nov12 1516 by 301	29Nov12 1537 by 301		
Trichloroethene	20 ug/l	85.8	70.0-125			V8161	29Nov12 1516 by 301	29Nov12 1537 by 301		
Vinyl chloride	20 ug/l	96.8	50.0-145			V8161	29Nov12 1516 by 301	29Nov12 1537 by 301		
TCLP Volatile Organic Compounds Surrogates:										
4-Bromofluorobenzene	50 ug/l	103	75.0-120			V8161	29Nov12 1516 by 301	29Nov12 1537 by 301		
Dibromofluoromethane	50 ug/l	91.9	85.0-115			V8161	29Nov12 1516 by 301	29Nov12 1537 by 301		
Toluene-D8	50 ug/l	102	85.0-120			V8161	29Nov12 1516 by 301	29Nov12 1537 by 301		
TCLP Chlorinated Herbicides										
2,4-D	0.251 mg/l	102	40.0-160			C15571		29Nov12 1448 by 07		
2,4,5-TP	0.254 mg/l	105	40.0-160			C15571		29Nov12 1448 by 07		
TCLP Base/Neutral and Acid Compounds										
Cresols	80 ug/l	81.5	38.0-98.0			B8009	29Nov12 1352 by 301	29Nov12 2007 by 301		
1,4-Dichlorobenzene	40 ug/l	81.8	30.0-100			B8009	29Nov12 1352 by 301	29Nov12 2007 by 301		
2,4-Dinitrotoluene	40 ug/l	104	50.0-120			B8009	29Nov12 1352 by 301	29Nov12 2007 by 301		
Hexachlorobenzene	40 ug/l	101	50.0-110			B8009	29Nov12 1352 by 301	29Nov12 2007 by 301		
Hexachlorobutadiene	40 ug/l	88.2	25.0-105			B8009	29Nov12 1352 by 301	29Nov12 2007 by 301		
Hexachloroethane	40 ug/l	76.2	30.0-100			B8009	29Nov12 1352 by 301	29Nov12 2007 by 301		
Nitrobenzene	40 ug/l	87.0	45.0-110			B8009	29Nov12 1352 by 301	29Nov12 2007 by 301		
Pentachlorophenol	40 ug/l	87.0	40.0-115			B8009	29Nov12 1352 by 301	29Nov12 2007 by 301		
Pyridine	40 ug/l	44.8	0.100-85.7			B8009	29Nov12 1352 by 301	29Nov12 2007 by 301		
2,4,5-Trichlorophenol	40 ug/l	100	50.0-110			B8009	29Nov12 1352 by 301	29Nov12 2007 by 301		
2,4,6-Trichlorophenol	40 ug/l	98.2	50.0-115			B8009	29Nov12 1352 by 301	29Nov12 2007 by 301		



Georgia-Pacific Chemicals, LLC-Chemical Plant
Highway 82 and Papermill Road
Crossett, AR 71635

LABORATORY CONTROL SAMPLE RESULTS

Analyte	Spike Amount	%	Limits	RPD	Limit	Batch	Preparation Date	Analysis Date	Dil	Qual
TCLP Base/Neutral and Acid Compounds (Continued)										
TCLP Base/Neutral and Acid Compounds Surrogates:										
2-Fluorobiphenyl	40 ug/l	81.2	50.0-110			B8009	29Nov12 1352 by 301	29Nov12 2007 by 301		
2-Fluorophenol	40 ug/l	65.2	20.0-110			B8009	29Nov12 1352 by 301	29Nov12 2007 by 301		
Nitrobenzene-D5	40 ug/l	79.2	40.0-110			B8009	29Nov12 1352 by 301	29Nov12 2007 by 301		
Terphenyl-D14	40 ug/l	88.2	50.0-135			B8009	29Nov12 1352 by 301	29Nov12 2007 by 301		
2,4,6-Tribromophenol	40 ug/l	104	40.0-125			B8009	29Nov12 1352 by 301	29Nov12 2007 by 301		
TCLP Organochlorine Pesticides										
Endrin	10 ug/l	99.2	55.0-135			G9084	29Nov12 1450 by 301	29Nov12 1854 by 288		
gamma-BHC	10 ug/l	94.1	25.0-135			G9084	29Nov12 1450 by 301	29Nov12 1854 by 288		
Heptachlor	10 ug/l	93.2	40.0-130			G9084	29Nov12 1450 by 301	29Nov12 1854 by 288		
Heptachlor epoxide	10 ug/l	96.1	60.0-130			G9084	29Nov12 1450 by 301	29Nov12 1854 by 288		
Methoxychlor	10 ug/l	100	55.0-150			G9084	29Nov12 1450 by 301	29Nov12 1854 by 288		
TCLP Organochlorine Pesticides Surrogates:										
Decachlorobiphenyl	20 ug/l	90.6	30.0-135			G9084	29Nov12 1450 by 301	29Nov12 1854 by 288		
Tetrachloro-m-xylene	20 ug/l	78.2	25.0-140			G9084	29Nov12 1450 by 301	29Nov12 1854 by 288		



Georgia-Pacific Chemicals, LLC-Chemical Plant
Highway 82 and Papermill Road
Crossett, AR 71635

MATRIX SPIKE SAMPLE RESULTS

Analyte	Sample	Spike Amount	%	Limits	Batch	Preparation Date	Analysis Date	Dil	Qual
TCLP: Arsenic	162782-1	5 mg/l	99.7	75.0-125	S33569	30Nov12 0847 by 271	30Nov12 1122 by 305	5	D
	162782-1	5 mg/l	99.6	75.0-125	S33569	30Nov12 0847 by 271	30Nov12 1125 by 305	5	D
	Relative Percent Difference:		0.147	20.0	S33569				
TCLP: Barium	162782-1	0.5 mg/l	88.8	75.0-125	S33569	30Nov12 0847 by 271	30Nov12 1122 by 305	5	D
	162782-1	0.5 mg/l	89.1	75.0-125	S33569	30Nov12 0847 by 271	30Nov12 1125 by 305	5	D
	Relative Percent Difference:		0.114	20.0	S33569				
TCLP: Cadmium	162782-1	5 mg/l	89.9	75.0-125	S33569	30Nov12 0847 by 271	30Nov12 1122 by 305	5	D
	162782-1	5 mg/l	90.1	75.0-125	S33569	30Nov12 0847 by 271	30Nov12 1125 by 305	5	D
	Relative Percent Difference:		0.254	20.0	S33569				
TCLP: Chromium	162782-1	0.5 mg/l	90.2	75.0-125	S33569	30Nov12 0847 by 271	30Nov12 1122 by 305	5	D
	162782-1	0.5 mg/l	90.3	75.0-125	S33569	30Nov12 0847 by 271	30Nov12 1125 by 305	5	D
	Relative Percent Difference:		0.168	20.0	S33569				
TCLP: Lead	162782-1	5 mg/l	97.3	75.0-125	S33569	30Nov12 0847 by 271	30Nov12 1122 by 305	5	D
	162782-1	5 mg/l	97.7	75.0-125	S33569	30Nov12 0847 by 271	30Nov12 1125 by 305	5	D
	Relative Percent Difference:		0.446	20.0	S33569				
TCLP: Selenium	162782-1	5 mg/l	90.8	75.0-125	S33569	30Nov12 0847 by 271	30Nov12 1122 by 305	5	D
	162782-1	5 mg/l	91.1	75.0-125	S33569	30Nov12 0847 by 271	30Nov12 1125 by 305	5	D
	Relative Percent Difference:		0.293	20.0	S33569				
TCLP: Silver	162782-1	0.1 mg/l	94.7	75.0-125	S33569	30Nov12 0847 by 271	30Nov12 1122 by 305	5	D
	162782-1	0.1 mg/l	94.9	75.0-125	S33569	30Nov12 0847 by 271	30Nov12 1125 by 305	5	D
	Relative Percent Difference:		0.189	20.0	S33569				
TCLP: Mercury	162782-1	0.0025 mg/l	85.3	70.0-130	S33570	30Nov12 0848 by 271	30Nov12 1737 by 271	40	D
	162782-1	0.0025 mg/l	80.9	70.0-130	S33570	30Nov12 0848 by 271	30Nov12 1742 by 271	40	D
	Relative Percent Difference:		5.03	20.0	S33570				
TCLP Volatile Organic Compounds									
Benzene	162782-1	20 ug/l	101	80.0-120	V8161	29Nov12 1516 by 301	29Nov12 1606 by 301	100	D
2-Butanone	162782-1	40 ug/l	125	30.0-150	V8161	29Nov12 1516 by 301	29Nov12 1606 by 301	100	D
Carbon tetrachloride	162782-1	20 ug/l	94.8	65.0-140	V8161	29Nov12 1516 by 301	29Nov12 1606 by 301	100	D
Chlorobenzene	162782-1	20 ug/l	101	80.0-120	V8161	29Nov12 1516 by 301	29Nov12 1606 by 301	100	D
Chloroform	162782-1	20 ug/l	96.6	65.0-135	V8161	29Nov12 1516 by 301	29Nov12 1606 by 301	100	D
1,2-Dichloroethane	162782-1	20 ug/l	101	70.0-130	V8161	29Nov12 1516 by 301	29Nov12 1606 by 301	100	D
1,1-Dichloroethene	162782-1	20 ug/l	99.1	70.0-130	V8161	29Nov12 1516 by 301	29Nov12 1606 by 301	100	D
Tetrachloroethene	162782-1	20 ug/l	99.7	45.0-150	V8161	29Nov12 1516 by 301	29Nov12 1606 by 301	100	D
Trichloroethene	162782-1	20 ug/l	99.2	70.0-125	V8161	29Nov12 1516 by 301	29Nov12 1606 by 301	100	D
Vinyl chloride	162782-1	20 ug/l	101	50.0-145	V8161	29Nov12 1516 by 301	29Nov12 1606 by 301	100	D
TCLP Volatile Organic Compounds Surrogates:									
4-Bromofluorobenzene	162782-1	50 ug/l	99.0	75.0-120	V8161	29Nov12 1516 by 301	29Nov12 1606 by 301	100	D
Dibromofluoromethane	162782-1	50 ug/l	97.0	85.0-115	V8161	29Nov12 1516 by 301	29Nov12 1606 by 301	100	D
Toluene-D8	162782-1	50 ug/l	99.1	85.0-120	V8161	29Nov12 1516 by 301	29Nov12 1606 by 301	100	D
TCLP Chlorinated Herbicides									
2,4-D	162782-1	0.251 mg/l	96.8	40.0-160	C15571		29Nov12 1448 by 07		
	162782-1	0.251 mg/l	97.2	40.0-160	C15571		29Nov12 1448 by 07		
	Relative Percent Difference:		0.411	20.0	C15571				
2,4,5-TP	162782-1	0.254 mg/l	104	40.0-160	C15571		29Nov12 1448 by 07		
	162782-1	0.254 mg/l	104	40.0-160	C15571		29Nov12 1448 by 07		
	Relative Percent Difference:		0.380	20.0	C15571				



Georgia-Pacific Chemicals, LLC-Chemical
Plant
Highway 82 and Papermill Road
Crossett, AR 71635

MATRIX SPIKE SAMPLE RESULTS

Analyte	Sample	Spike Amount	%	Limits	Batch	Preparation Date	Analysis Date	Dil	Qual
TCLP Base/Neutral and Acid Compounds									
Cresols	162782-1	80 ug/l	76.2	35.2-107	B8009	29Nov12 1352 by 301	29Nov12 2042 by 301	10	D
	162782-1	80 ug/l	78.4	35.2-107	B8009	29Nov12 1352 by 301	29Nov12 2118 by 301	10	D
	Relative Percent Difference:		2.75	30.0	B8009				
1,4-Dichlorobenzene	162782-1	40 ug/l	77.0	30.0-100	B8009	29Nov12 1352 by 301	29Nov12 2042 by 301	10	D
	162782-1	40 ug/l	78.8	30.0-100	B8009	29Nov12 1352 by 301	29Nov12 2118 by 301	10	D
	Relative Percent Difference:		2.25	30.0	B8009				
2,4-Dinitrotoluene	162782-1	40 ug/l	95.5	50.0-120	B8009	29Nov12 1352 by 301	29Nov12 2042 by 301	10	D
	162782-1	40 ug/l	98.2	50.0-120	B8009	29Nov12 1352 by 301	29Nov12 2118 by 301	10	D
	Relative Percent Difference:		2.84	30.0	B8009				
Hexachlorobenzene	162782-1	40 ug/l	94.5	50.0-110	B8009	29Nov12 1352 by 301	29Nov12 2042 by 301	10	D
	162782-1	40 ug/l	98.0	50.0-110	B8009	29Nov12 1352 by 301	29Nov12 2118 by 301	10	D
	Relative Percent Difference:		3.64	30.0	B8009				
Hexachlorobutadiene	162782-1	40 ug/l	82.8	25.0-105	B8009	29Nov12 1352 by 301	29Nov12 2042 by 301	10	D
	162782-1	40 ug/l	84.5	25.0-105	B8009	29Nov12 1352 by 301	29Nov12 2118 by 301	10	D
	Relative Percent Difference:		2.09	30.0	B8009				
Hexachloroethane	162782-1	40 ug/l	71.8	30.0-100	B8009	29Nov12 1352 by 301	29Nov12 2042 by 301	10	D
	162782-1	40 ug/l	72.8	30.0-100	B8009	29Nov12 1352 by 301	29Nov12 2118 by 301	10	D
	Relative Percent Difference:		1.38	30.0	B8009				
Nitrobenzene	162782-1	40 ug/l	82.0	45.0-110	B8009	29Nov12 1352 by 301	29Nov12 2042 by 301	10	D
	162782-1	40 ug/l	81.2	45.0-110	B8009	29Nov12 1352 by 301	29Nov12 2118 by 301	10	D
	Relative Percent Difference:		0.919	30.0	B8009				
Pentachlorophenol	162782-1	40 ug/l	97.0	40.0-115	B8009	29Nov12 1352 by 301	29Nov12 2042 by 301	10	D
	162782-1	40 ug/l	93.5	40.0-115	B8009	29Nov12 1352 by 301	29Nov12 2118 by 301	10	D
	Relative Percent Difference:		3.67	30.0	B8009				
Pyridine	162782-1	40 ug/l	43.0	0.100-73.6	B8009	29Nov12 1352 by 301	29Nov12 2042 by 301	10	D
	162782-1	40 ug/l	45.5	0.100-73.6	B8009	29Nov12 1352 by 301	29Nov12 2118 by 301	10	D
	Relative Percent Difference:		5.65	29.7	B8009				
2,4,5-Trichlorophenol	162782-1	40 ug/l	95.2	50.0-110	B8009	29Nov12 1352 by 301	29Nov12 2042 by 301	10	D
	162782-1	40 ug/l	94.8	50.0-110	B8009	29Nov12 1352 by 301	29Nov12 2118 by 301	10	D
	Relative Percent Difference:		0.526	30.0	B8009				
2,4,6-Trichlorophenol	162782-1	40 ug/l	92.5	50.0-115	B8009	29Nov12 1352 by 301	29Nov12 2042 by 301	10	D
	162782-1	40 ug/l	94.2	50.0-115	B8009	29Nov12 1352 by 301	29Nov12 2118 by 301	10	D
	Relative Percent Difference:		1.87	30.0	B8009				
TCLP Base/Neutral and Acid Compounds Surrogates:									
2-Fluorobiphenyl	162782-1	40 ug/l	87.8	50.0-110	B8009	29Nov12 1352 by 301	29Nov12 2042 by 301		
	162782-1	40 ug/l	88.5	50.0-110	B8009	29Nov12 1352 by 301	29Nov12 2118 by 301		
2-Fluorophenol	162782-1	40 ug/l	69.8	20.0-110	B8009	29Nov12 1352 by 301	29Nov12 2042 by 301		
	162782-1	40 ug/l	70.0	20.0-110	B8009	29Nov12 1352 by 301	29Nov12 2118 by 301		
Nitrobenzene-D5	162782-1	40 ug/l	87.8	40.0-110	B8009	29Nov12 1352 by 301	29Nov12 2042 by 301		
	162782-1	40 ug/l	87.2	40.0-110	B8009	29Nov12 1352 by 301	29Nov12 2118 by 301		
Terphenyl-D14	162782-1	40 ug/l	96.0	50.0-135	B8009	29Nov12 1352 by 301	29Nov12 2042 by 301		
	162782-1	40 ug/l	98.8	50.0-135	B8009	29Nov12 1352 by 301	29Nov12 2118 by 301		
2,4,6-Tribromophenol	162782-1	40 ug/l	113	40.0-125	B8009	29Nov12 1352 by 301	29Nov12 2042 by 301		
	162782-1	40 ug/l	114	40.0-125	B8009	29Nov12 1352 by 301	29Nov12 2118 by 301		



Georgia-Pacific Chemicals, LLC-Chemical
Plant
Highway 82 and Papermill Road
Crossett, AR 71635

MATRIX SPIKE SAMPLE RESULTS

Analyte	Sample	Spike Amount	%	Limits	Batch	Preparation Date	Analysis Date	Dil	Qual
TCLP Organochlorine Pesticides									
Endrin	162782-1	10 ug/l	96.2	55.0-135	G9084	29Nov12 1450 by 301	29Nov12 1911 by 288	10	D
	162782-1	10 ug/l	99.7	55.0-135	G9084	29Nov12 1450 by 301	29Nov12 1929 by 288	10	D
	Relative Percent Difference:		3.57	30.0	G9084				
gamma-BHC	162782-1	10 ug/l	91.8	25.0-135	G9084	29Nov12 1450 by 301	29Nov12 1911 by 288	10	D
	162782-1	10 ug/l	94.3	25.0-135	G9084	29Nov12 1450 by 301	29Nov12 1929 by 288	10	D
	Relative Percent Difference:		2.69	30.0	G9084				
Heptachlor	162782-1	10 ug/l	92.2	40.0-130	G9084	29Nov12 1450 by 301	29Nov12 1911 by 288	10	D
	162782-1	10 ug/l	91.3	40.0-130	G9084	29Nov12 1450 by 301	29Nov12 1929 by 288	10	D
	Relative Percent Difference:		0.981	30.0	G9084				
Heptachlor epoxide	162782-1	10 ug/l	92.3	60.0-130	G9084	29Nov12 1450 by 301	29Nov12 1911 by 288	10	D
	162782-1	10 ug/l	96.7	60.0-130	G9084	29Nov12 1450 by 301	29Nov12 1929 by 288	10	D
	Relative Percent Difference:		4.66	30.0	G9084				
Methoxychlor	162782-1	10 ug/l	99.7	55.0-150	G9084	29Nov12 1450 by 301	29Nov12 1911 by 288	10	D
	162782-1	10 ug/l	106	55.0-150	G9084	29Nov12 1450 by 301	29Nov12 1929 by 288	10	D
	Relative Percent Difference:		5.94	30.0	G9084				
TCLP Organochlorine Pesticides Surrogates:									
Decachlorobiphenyl	162782-1	20 ug/l	87.7	30.0-135	G9084	29Nov12 1450 by 301	29Nov12 1911 by 288		
	162782-1	20 ug/l	91.6	30.0-135	G9084	29Nov12 1450 by 301	29Nov12 1929 by 288		
Tetrachloro-m-xylene	162782-1	20 ug/l	100	25.0-140	G9084	29Nov12 1450 by 301	29Nov12 1911 by 288		
	162782-1	20 ug/l	111	25.0-140	G9084	29Nov12 1450 by 301	29Nov12 1929 by 288		

Georgia-Pacific Chemicals, LLC-Chemical Plant
Highway 82 and Papermill Road
Crossett, AR 71635

LABORATORY BLANK RESULTS

Analyte	Result	RL	PQL	QC Sample	Preparation Date	Analysis Date	Qual
TCLP: Arsenic	< 0.05 mg/l	0.05	0.05	S33569-1	30Nov12 0847 by 271	30Nov12 1117 by 305	
TCLP: Barium	< 0.002 mg/l	0.002	0.002	S33569-1	30Nov12 0847 by 271	30Nov12 1117 by 305	
TCLP: Cadmium	< 0.004 mg/l	0.004	0.004	S33569-1	30Nov12 0847 by 271	30Nov12 1117 by 305	
TCLP: Chromium	< 0.007 mg/l	0.007	0.007	S33569-1	30Nov12 0847 by 271	30Nov12 1117 by 305	
TCLP: Lead	< 0.04 mg/l	0.04	0.04	S33569-1	30Nov12 0847 by 271	30Nov12 1117 by 305	
TCLP: Selenium	< 0.07 mg/l	0.07	0.07	S33569-1	30Nov12 0847 by 271	30Nov12 1117 by 305	
TCLP: Silver	< 0.007 mg/l	0.007	0.007	S33569-1	30Nov12 0847 by 271	30Nov12 1117 by 305	
TCLP: Mercury	< 0.0002 mg/l	0.0002	0.0002	S33570-1	30Nov12 0848 by 271	30Nov12 1727 by 271	
TCLP Chlorinated Herbicides							
2,4-D	< 0.20 mg/l	0.20	0.2	C15571-1		29Nov12 1448 by 07	
2,4,5-TP	< 0.10 mg/l	0.10	0.1	C15571-1		29Nov12 1448 by 07	
TCLP Base/Neutral and Acid Compounds							
Cresols	< 0.010 mg/l	0.010	0.010	B8009-1	29Nov12 1352 by 301	29Nov12 1932 by 301	
1,4-Dichlorobenzene	< 0.0050 mg/l	0.0050	0.0050	B8009-1	29Nov12 1352 by 301	29Nov12 1932 by 301	
2,4-Dinitrotoluene	< 0.0050 mg/l	0.0050	0.0050	B8009-1	29Nov12 1352 by 301	29Nov12 1932 by 301	
Hexachlorobenzene	< 0.0050 mg/l	0.0050	0.0050	B8009-1	29Nov12 1352 by 301	29Nov12 1932 by 301	
Hexachlorobutadiene	< 0.0050 mg/l	0.0050	0.0050	B8009-1	29Nov12 1352 by 301	29Nov12 1932 by 301	
Hexachloroethane	< 0.0050 mg/l	0.0050	0.0050	B8009-1	29Nov12 1352 by 301	29Nov12 1932 by 301	
Nitrobenzene	< 0.0050 mg/l	0.0050	0.0050	B8009-1	29Nov12 1352 by 301	29Nov12 1932 by 301	
Pentachlorophenol	< 0.0050 mg/l	0.0050	0.0050	B8009-1	29Nov12 1352 by 301	29Nov12 1932 by 301	
Pyridine	< 0.0050 mg/l	0.0050	0.0050	B8009-1	29Nov12 1352 by 301	29Nov12 1932 by 301	
2,4,5-Trichlorophenol	< 0.0050 mg/l	0.0050	0.0050	B8009-1	29Nov12 1352 by 301	29Nov12 1932 by 301	
2,4,6-Trichlorophenol	< 0.0050 mg/l	0.0050	0.0050	B8009-1	29Nov12 1352 by 301	29Nov12 1932 by 301	
TCLP Base/Neutral and Acid Compounds Surrogates:							
2-Fluorobiphenyl (50.0-110%)	89.5 %			B8009-1	29Nov12 1352 by 301	29Nov12 1932 by 301	
2-Fluorophenol (20.0-110%)	68.2 %			B8009-1	29Nov12 1352 by 301	29Nov12 1932 by 301	
Nitrobenzene-D5 (40.0-110%)	85.8 %			B8009-1	29Nov12 1352 by 301	29Nov12 1932 by 301	
Terphenyl-D14 (50.0-135%)	106 %			B8009-1	29Nov12 1352 by 301	29Nov12 1932 by 301	
2,4,6-Tribromophenol (40.0-125%)	95.2 %			B8009-1	29Nov12 1352 by 301	29Nov12 1932 by 301	
TCLP Volatile Organic Compounds							
Benzene	< 0.0050 mg/l	0.0050	0.0050	V8161-1	29Nov12 1516 by 301	29Nov12 1705 by 301	
2-Butanone	< 0.010 mg/l	0.010	0.010	V8161-1	29Nov12 1516 by 301	29Nov12 1705 by 301	
Carbon tetrachloride	< 0.0020 mg/l	0.0020	0.0020	V8161-1	29Nov12 1516 by 301	29Nov12 1705 by 301	
Chlorobenzene	< 0.0050 mg/l	0.0050	0.0050	V8161-1	29Nov12 1516 by 301	29Nov12 1705 by 301	
Chloroform	< 0.0050 mg/l	0.0050	0.0050	V8161-1	29Nov12 1516 by 301	29Nov12 1705 by 301	
1,2-Dichloroethane	< 0.0050 mg/l	0.0050	0.0050	V8161-1	29Nov12 1516 by 301	29Nov12 1705 by 301	
1,1-Dichloroethene	< 0.0050 mg/l	0.0050	0.0050	V8161-1	29Nov12 1516 by 301	29Nov12 1705 by 301	
Tetrachloroethene	< 0.0050 mg/l	0.0050	0.0050	V8161-1	29Nov12 1516 by 301	29Nov12 1705 by 301	
Trichloroethene	< 0.0050 mg/l	0.0050	0.0050	V8161-1	29Nov12 1516 by 301	29Nov12 1705 by 301	
Vinyl chloride	< 0.0020 mg/l	0.0020	0.0020	V8161-1	29Nov12 1516 by 301	29Nov12 1705 by 301	
TCLP Volatile Organic Compounds Surrogates:							
4-Bromofluorobenzene (75.0-120%)	97.0 %			V8161-1	29Nov12 1516 by 301	29Nov12 1705 by 301	
Dibromofluoromethane (85.0-115%)	92.4 %			V8161-1	29Nov12 1516 by 301	29Nov12 1705 by 301	
Toluene-D8 (85.0-120%)	97.8 %			V8161-1	29Nov12 1516 by 301	29Nov12 1705 by 301	
TCLP Organochlorine Pesticides							
Chlordane	< 0.0010 mg/l	0.0010	0.0010	G9084-1	29Nov12 1450 by 301	29Nov12 1836 by 288	
Endrin	< 0.00020 mg/l	0.00020	0.00020	G9084-1	29Nov12 1450 by 301	29Nov12 1836 by 288	



Georgia-Pacific Chemicals, LLC-Chemical
Plant
Highway 82 and Papermill Road
Crossett, AR 71635

LABORATORY BLANK RESULTS

<u>Analyte</u>	<u>Result</u>	<u>RL</u>	<u>PQL</u>	<u>QC Sample</u>	<u>Preparation Date</u>	<u>Analysis Date</u>	<u>Qual</u>
TCLP Organochlorine Pesticides							
gamma-BHC	< 0.00020 mg/l	0.00020	0.00020	G9084-1	29Nov12 1450 by 301	29Nov12 1836 by 288	
Heptachlor	< 0.00010 mg/l	0.00010	0.00020	G9084-1	29Nov12 1450 by 301	29Nov12 1836 by 288	
Heptachlor epoxide	< 0.00010 mg/l	0.00010	0.00020	G9084-1	29Nov12 1450 by 301	29Nov12 1836 by 288	
Methoxychlor	< 0.00020 mg/l	0.00020	0.00020	G9084-1	29Nov12 1450 by 301	29Nov12 1836 by 288	
Toxaphene	< 0.0020 mg/l	0.0020	0.0020	G9084-1	29Nov12 1450 by 301	29Nov12 1836 by 288	
TCLP Organochlorine Pesticides Surrogates:							
Decachlorobiphenyl (30.0-135%)	81.6 %			G9084-1	29Nov12 1450 by 301	29Nov12 1836 by 288	
Tetrachloro-m-xylene (25.0-140%)	74.4 %			G9084-1	29Nov12 1450 by 301	29Nov12 1836 by 288	

APPENDIX D

Clean Soil Analytical Results

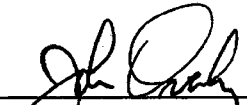


Georgia-Pacific Chemicals, LLC-Chemical
Plant
ATTN: Mr. Tom Hudson
Post Office Box 520
Highway 82 and Papermill Road
Crossett, AR 71635

This report contains the analytical results and supporting information for the sample submitted on March 25, 2013. Attached please find a copy of the Chain of Custody and/or other documents received. Note that any remaining sample will be discarded two weeks from the original report date unless other arrangements are made.

This report is intended for the sole use of the client listed above. Assessment of the data requires access to the entire document.

This report has been reviewed by the Laboratory Director or a qualified designee.



John Overbey
Laboratory Director

This document has been distributed to the following:

PDF cc: Georgia-Pacific Chemicals, LLC-Chemical Plant
ATTN: Mr. Tom Hudson
thomas.hudson@gapac.com



Georgia-Pacific Chemicals, LLC-Chemical
Plant
Post Office Box 520
Highway 82 and Papermill Road
Crossett, AR 71635

SAMPLE INFORMATION

Project Description:

One (1) soil sample(s) received on March 25, 2013
Fill Dirt to Pond Testing
P.O. No. P554130677

Receipt Details:

A Chain of Custody was provided. The samples were delivered in one (1) ice chest.
Ice chest #1 was delivered with shipping documentation.

Each sample container was checked for proper labeling, including date and time sampled. Sample containers were reviewed for proper type, adequate volume, integrity, temperature, preservation, and holding times. Any exceptions are noted below:

Sample Identification:

<u>Laboratory ID</u>	<u>Client Sample ID</u>	<u>Sampled Date/Time</u>	<u>Notes</u>
165981-1	Fill Dirt to Pond 3/20/13 1345	20-Mar-2013 1345	

Qualifiers:

D Result is from a secondary dilution factor

References:

- "Methods for Chemical Analysis of Water and Wastes", EPA/600/4-79-020 (Mar 1983) with updates and supplements EPA/600/5-91-010 (Jun 1991), EPA/600/R-92-129 (Aug 1992) and EPA/600/R-93-100 (Aug 1993).
- "Test Methods for Evaluating Solid Waste Physical/Chemical Methods (SW846)", Third Edition.
- "Standard Methods for the Examination of Water and Wastewaters", 21st edition.
- "American Society for Testing and Materials" (ASTM).
- "Association of Analytical Chemists" (AOAC).

Georgia-Pacific Chemicals, LLC-Chemical
Plant
Post Office Box 520
Highway 82 and Papermill Road
Crossett, AR 71635

ANALYTICAL RESULTS

AIC No. 165981-1

Sample Identification: Fill Dirt to Pond 3/20/13 1345

Analyte	Result	RL	Units	Qualifier
TCLP: Solids EPA 1311	100 Analyzed: 25-Mar-2013 1555 by 100	0.5 Batch: S34240	%	
TCLP: Arsenic EPA 3010A, 6010C Prep: 26-Mar-2013 1118 by 271	< 0.3 Analyzed: 26-Mar-2013 1422 by 305	0.3	mg/l	D Dil: 5
TCLP: Barium EPA 3010A, 6010C Prep: 26-Mar-2013 1118 by 271	0.60 Analyzed: 26-Mar-2013 1422 by 305	0.01	mg/l	D Dil: 5
TCLP: Cadmium EPA 3010A, 6010C Prep: 26-Mar-2013 1118 by 271	< 0.02 Analyzed: 26-Mar-2013 1422 by 305	0.02	mg/l	D Dil: 5
TCLP: Chromium EPA 3010A, 6010C Prep: 26-Mar-2013 1118 by 271	< 0.04 Analyzed: 26-Mar-2013 1422 by 305	0.04	mg/l	D Dil: 5
TCLP: Lead EPA 3010A, 6010C Prep: 26-Mar-2013 1118 by 271	< 0.2 Analyzed: 26-Mar-2013 1422 by 305	0.2	mg/l	D Dil: 5
TCLP: Selenium EPA 3010A, 6010C Prep: 26-Mar-2013 1118 by 271	< 0.4 Analyzed: 26-Mar-2013 1422 by 305	0.4	mg/l	D Dil: 5
TCLP: Silver EPA 3010A, 6010C Prep: 26-Mar-2013 1118 by 271	< 0.04 Analyzed: 26-Mar-2013 1422 by 305	0.04	mg/l	D Dil: 5
TCLP: Mercury EPA 7470A Prep: 26-Mar-2013 1118 by 271	< 0.008 Analyzed: 26-Mar-2013 1416 by 271	0.008	mg/l	D Dil: 40
TCLP Chlorinated Herbicides By EPA 8321A				
2,4-D EPA 8321A	< 0.20 Analyzed: 28-Mar-2013 0836 by 07	0.20	mg/l	D Batch: C15768
2,4,5-TP EPA 8321A	< 0.10 Analyzed: 28-Mar-2013 0836 by 07	0.10	mg/l	D Batch: C15768
TCLP Base/Neutral and Acid Compounds By EPA 3510C, 8270D				
Cresols EPA 3510C, 8270D Prep: 26-Mar-2013 1419 by 306	< 0.10 Analyzed: 26-Mar-2013 2044 by 301	0.10	mg/l	D Dil: 10 Batch: B8245
1,4-Dichlorobenzene EPA 3510C, 8270D Prep: 26-Mar-2013 1419 by 306	< 0.050 Analyzed: 26-Mar-2013 2044 by 301	0.050	mg/l	D Dil: 10 Batch: B8245
2,4-Dinitrotoluene EPA 3510C, 8270D Prep: 26-Mar-2013 1419 by 306	< 0.050 Analyzed: 26-Mar-2013 2044 by 301	0.050	mg/l	D Dil: 10 Batch: B8245
Hexachlorobenzene EPA 3510C, 8270D Prep: 26-Mar-2013 1419 by 306	< 0.050 Analyzed: 26-Mar-2013 2044 by 301	0.050	mg/l	D Dil: 10 Batch: B8245
Hexachlorobutadiene EPA 3510C, 8270D Prep: 26-Mar-2013 1419 by 306	< 0.050 Analyzed: 26-Mar-2013 2044 by 301	0.050	mg/l	D Dil: 10 Batch: B8245
Hexachloroethane EPA 3510C, 8270D Prep: 26-Mar-2013 1419 by 306	< 0.050 Analyzed: 26-Mar-2013 2044 by 301	0.050	mg/l	D Dil: 10 Batch: B8245
Nitrobenzene EPA 3510C, 8270D Prep: 26-Mar-2013 1419 by 306	< 0.050 Analyzed: 26-Mar-2013 2044 by 301	0.050	mg/l	D Dil: 10 Batch: B8245

Georgia-Pacific Chemicals, LLC-Chemical
Plant
Post Office Box 520
Highway 82 and Papermill Road
Crossett, AR 71635

ANALYTICAL RESULTS

AIC No. 165981-1 (Continued)

Sample Identification: Fill Dirt to Pond 3/20/13 1345

Analyte	Result	RL	Units	Qualifier
TCLP Base/Neutral and Acid Compounds By EPA 3510C, 8270D (Continued)				
Pentachlorophenol EPA 3510C, 8270D	< 0.050	0.050	mg/l	D
Prep: 26-Mar-2013 1419 by 306	Analyzed: 26-Mar-2013 2044 by 301		Batch: B8245	Dil: 10
Pyridine EPA 3510C, 8270D	< 0.050	0.050	mg/l	D
Prep: 26-Mar-2013 1419 by 306	Analyzed: 26-Mar-2013 2044 by 301		Batch: B8245	Dil: 10
2,4,5-Trichlorophenol EPA 3510C, 8270D	< 0.050	0.050	mg/l	D
Prep: 26-Mar-2013 1419 by 306	Analyzed: 26-Mar-2013 2044 by 301		Batch: B8245	Dil: 10
2,4,6-Trichlorophenol EPA 3510C, 8270D	< 0.050	0.050	mg/l	D
Prep: 26-Mar-2013 1419 by 306	Analyzed: 26-Mar-2013 2044 by 301		Batch: B8245	Dil: 10
Surrogate: 2-Fluorobiphenyl (50.0-110%) EPA 3510C, 8270D	85.0		%	
Prep: 26-Mar-2013 1419 by 306	Analyzed: 26-Mar-2013 2044 by 301		Batch: B8245	
Surrogate: 2-Fluorophenol (20.0-110%) EPA 3510C, 8270D	62.0		%	
Prep: 26-Mar-2013 1419 by 306	Analyzed: 26-Mar-2013 2044 by 301		Batch: B8245	
Surrogate: Nitrobenzene-D5 (40.0-110%) EPA 3510C, 8270D	97.5		%	
Prep: 26-Mar-2013 1419 by 306	Analyzed: 26-Mar-2013 2044 by 301		Batch: B8245	
Surrogate: Terphenyl-D14 (50.0-135%) EPA 3510C, 8270D	114		%	
Prep: 26-Mar-2013 1419 by 306	Analyzed: 26-Mar-2013 2044 by 301		Batch: B8245	
Surrogate: 2,4,6-Tribromophenol (40.0-125%) EPA 3510C, 8270D	63.0		%	
Prep: 26-Mar-2013 1419 by 306	Analyzed: 26-Mar-2013 2044 by 301		Batch: B8245	
TCLP Volatile Organic Compounds By EPA 5030C, 8260C				
Benzene EPA 5030C, 8260C	< 0.50	0.50	mg/l	D
Prep: 26-Mar-2013 1100 by 301	Analyzed: 26-Mar-2013 1435 by 301		Batch: V8231	Dil: 100
Carbon tetrachloride EPA 5030C, 8260C	< 0.20	0.20	mg/l	D
Prep: 26-Mar-2013 1100 by 301	Analyzed: 26-Mar-2013 1435 by 301		Batch: V8231	Dil: 100
Chlorobenzene EPA 5030C, 8260C	< 0.50	0.50	mg/l	D
Prep: 26-Mar-2013 1100 by 301	Analyzed: 26-Mar-2013 1435 by 301		Batch: V8231	Dil: 100
Chloroform EPA 5030C, 8260C	< 0.50	0.50	mg/l	D
Prep: 26-Mar-2013 1100 by 301	Analyzed: 26-Mar-2013 1435 by 301		Batch: V8231	Dil: 100
1,2-Dichloroethane EPA 5030C, 8260C	< 0.50	0.50	mg/l	D
Prep: 26-Mar-2013 1100 by 301	Analyzed: 26-Mar-2013 1435 by 301		Batch: V8231	Dil: 100
1,1-Dichloroethylene EPA 5030C, 8260C	< 0.50	0.50	mg/l	D
Prep: 26-Mar-2013 1100 by 301	Analyzed: 26-Mar-2013 1435 by 301		Batch: V8231	Dil: 100
Methyl ethyl ketone EPA 5030C, 8260C	< 1.0	1.0	mg/l	D
Prep: 26-Mar-2013 1100 by 301	Analyzed: 26-Mar-2013 1435 by 301		Batch: V8231	Dil: 100
Tetrachloroethylene EPA 5030C, 8260C	< 0.50	0.50	mg/l	D
Prep: 26-Mar-2013 1100 by 301	Analyzed: 26-Mar-2013 1435 by 301		Batch: V8231	Dil: 100
Trichloroethylene EPA 5030C, 8260C	< 0.50	0.50	mg/l	D
Prep: 26-Mar-2013 1100 by 301	Analyzed: 26-Mar-2013 1435 by 301		Batch: V8231	Dil: 100

Georgia-Pacific Chemicals, LLC-Chemical
Plant
Post Office Box 520
Highway 82 and Papermill Road
Crossett, AR 71635

ANALYTICAL RESULTS

AIC No. 165981-1 (Continued)

Sample Identification: Fill Dirt to Pond 3/20/13 1345

<u>Analyte</u>	<u>Result</u>	<u>RL</u>	<u>Units</u>	<u>Qualifier</u>
TCLP Volatile Organic Compounds By EPA 5030C, 8260C (Continued)				
Vinyl chloride EPA 5030C, 8260C	< 0.20	0.20	mg/l	D
Prep: 26-Mar-2013 1100 by 301	Analyzed: 26-Mar-2013 1435 by 301		Batch: V8231	Dil: 100
Surrogate: 4-Bromofluorobenzene (75.0-120%) EPA 5030C, 8260C	96.6		%	D
Prep: 26-Mar-2013 1100 by 301	Analyzed: 26-Mar-2013 1435 by 301		Batch: V8231	Dil: 100
Surrogate: Dibromofluoromethane (85.0-115%) EPA 5030C, 8260C	95.8		%	D
Prep: 26-Mar-2013 1100 by 301	Analyzed: 26-Mar-2013 1435 by 301		Batch: V8231	Dil: 100
Surrogate: Toluene-D8 (85.0-120%) EPA 5030C, 8260C	96.5		%	D
Prep: 26-Mar-2013 1100 by 301	Analyzed: 26-Mar-2013 1435 by 301		Batch: V8231	Dil: 100
TCLP Organochlorine Pesticides By EPA 3510C, 8081B				
Chlordane EPA 3510C, 8081B	< 0.0010	0.0010	mg/l	D
Prep: 27-Mar-2013 1414 by 306	Analyzed: 27-Mar-2013 2238 by 306		Batch: G9225	Dil: 10
Endrin EPA 3510C, 8081B	< 0.00020	0.00020	mg/l	D
Prep: 27-Mar-2013 1414 by 306	Analyzed: 27-Mar-2013 2238 by 306		Batch: G9225	Dil: 10
gamma-BHC EPA 3510C, 8081B	< 0.00020	0.00020	mg/l	D
Prep: 27-Mar-2013 1414 by 306	Analyzed: 27-Mar-2013 2238 by 306		Batch: G9225	Dil: 10
Heptachlor EPA 3510C, 8081B	< 0.00010	0.00010	mg/l	D
Prep: 27-Mar-2013 1414 by 306	Analyzed: 27-Mar-2013 2238 by 306		Batch: G9225	Dil: 10
Heptachlor epoxide EPA 3510C, 8081B	< 0.00010	0.00010	mg/l	D
Prep: 27-Mar-2013 1414 by 306	Analyzed: 27-Mar-2013 2238 by 306		Batch: G9225	Dil: 10
Methoxychlor EPA 3510C, 8081B	< 0.00020	0.00020	mg/l	D
Prep: 27-Mar-2013 1414 by 306	Analyzed: 27-Mar-2013 2238 by 306		Batch: G9225	Dil: 10
Toxaphene EPA 3510C, 8081B	< 0.0020	0.0020	mg/l	D
Prep: 27-Mar-2013 1414 by 306	Analyzed: 27-Mar-2013 2238 by 306		Batch: G9225	Dil: 10
Surrogate: Decachlorobiphenyl (30.0-135%) EPA 3510C, 8081B	47.0		%	
Prep: 27-Mar-2013 1414 by 306	Analyzed: 27-Mar-2013 2238 by 306		Batch: G9225	
Surrogate: Tetrachloro-m-xylene (25.0-140%) EPA 3510C, 8081B	60.4		%	
Prep: 27-Mar-2013 1414 by 306	Analyzed: 27-Mar-2013 2238 by 306		Batch: G9225	



Georgia-Pacific Chemicals, LLC-Chemical
Plant
Post Office Box 520
Highway 82 and Papermill Road
Crossett, AR 71635

DUPLICATE RESULTS

Analyte	AIC No.	Result	RPD	RPD Limit	Preparation Date	Analysis Date	Dil	Qual
TCLP Volatile Organic Compounds								
Benzene	165981-1	< 0.50 mg/l			26Mar13 1100 by 301	26Mar13 1435 by 301	100	D
	Batch: V8231 Duplicate	< 0.50 mg/l	0.00	30.0	26Mar13 1100 by 301	26Mar13 1512 by 301	100	D
Carbon tetrachloride	165981-1	< 0.20 mg/l			26Mar13 1100 by 301	26Mar13 1435 by 301	100	D
	Batch: V8231 Duplicate	< 0.20 mg/l	0.00	30.0	26Mar13 1100 by 301	26Mar13 1512 by 301	100	D
Chlorobenzene	165981-1	< 0.50 mg/l			26Mar13 1100 by 301	26Mar13 1435 by 301	100	D
	Batch: V8231 Duplicate	< 0.50 mg/l	0.00	30.0	26Mar13 1100 by 301	26Mar13 1512 by 301	100	D
Chloroform	165981-1	< 0.50 mg/l			26Mar13 1100 by 301	26Mar13 1435 by 301	100	D
	Batch: V8231 Duplicate	< 0.50 mg/l	0.00	30.0	26Mar13 1100 by 301	26Mar13 1512 by 301	100	D
1,2-Dichloroethane	165981-1	< 0.50 mg/l			26Mar13 1100 by 301	26Mar13 1435 by 301	100	D
	Batch: V8231 Duplicate	< 0.50 mg/l	0.00	30.0	26Mar13 1100 by 301	26Mar13 1512 by 301	100	D
1,1-Dichloroethylene	165981-1	< 0.50 mg/l			26Mar13 1100 by 301	26Mar13 1435 by 301	100	D
	Batch: V8231 Duplicate	< 0.50 mg/l	0.00	30.0	26Mar13 1100 by 301	26Mar13 1512 by 301	100	D
Methyl ethyl ketone	165981-1	< 1.0 mg/l			26Mar13 1100 by 301	26Mar13 1435 by 301	100	D
	Batch: V8231 Duplicate	< 1.0 mg/l	0.00	30.0	26Mar13 1100 by 301	26Mar13 1512 by 301	100	D
Tetrachloroethylene	165981-1	< 0.50 mg/l			26Mar13 1100 by 301	26Mar13 1435 by 301	100	D
	Batch: V8231 Duplicate	< 0.50 mg/l	0.00	30.0	26Mar13 1100 by 301	26Mar13 1512 by 301	100	D
Trichloroethylene	165981-1	< 0.50 mg/l			26Mar13 1100 by 301	26Mar13 1435 by 301	100	D
	Batch: V8231 Duplicate	< 0.50 mg/l	0.00	30.0	26Mar13 1100 by 301	26Mar13 1512 by 301	100	D
Vinyl chloride	165981-1	< 0.20 mg/l			26Mar13 1100 by 301	26Mar13 1435 by 301	100	D
	Batch: V8231 Duplicate	< 0.20 mg/l	0.00	30.0	26Mar13 1100 by 301	26Mar13 1512 by 301	100	D
4-Bromofluorobenzene (75.0-120%)	165981-1	96.6 %			26Mar13 1100 by 301	26Mar13 1435 by 301	100	D
	Batch: V8231 Duplicate	96.8 %			26Mar13 1100 by 301	26Mar13 1512 by 301	100	D
Dibromofluoromethane (85.0-115%)	165981-1	95.8 %			26Mar13 1100 by 301	26Mar13 1435 by 301	100	D
	Batch: V8231 Duplicate	94.7 %			26Mar13 1100 by 301	26Mar13 1512 by 301	100	D
Toluene-D8 (85.0-120%)	165981-1	96.5 %			26Mar13 1100 by 301	26Mar13 1435 by 301	100	D
	Batch: V8231 Duplicate	98.3 %			26Mar13 1100 by 301	26Mar13 1512 by 301	100	D

Georgia-Pacific Chemicals, LLC-Chemical
Plant
Post Office Box 520
Highway 82 and Papermill Road
Crossett, AR 71635

LABORATORY CONTROL SAMPLE RESULTS

Analyte	Spike Amount	%	Limits	RPD	Limit	Batch	Preparation Date	Analysis Date	Dil	Qual
TCLP: Arsenic	5 mg/l	113	85.0-115			S34276	26Mar13 1118 by 271	26Mar13 1358 by 305		
TCLP: Barium	0.5 mg/l	107	85.0-115			S34276	26Mar13 1118 by 271	26Mar13 1358 by 305		
TCLP: Cadmium	5 mg/l	108	85.0-115			S34276	26Mar13 1118 by 271	26Mar13 1358 by 305		
TCLP: Chromium	0.5 mg/l	110	85.0-115			S34276	26Mar13 1118 by 271	26Mar13 1358 by 305		
TCLP: Lead	5 mg/l	104	85.0-115			S34276	26Mar13 1118 by 271	26Mar13 1358 by 305		
TCLP: Selenium	5 mg/l	108	85.0-115			S34276	26Mar13 1118 by 271	26Mar13 1358 by 305		
TCLP: Silver	0.1 mg/l	94.7	85.0-115			S34276	26Mar13 1118 by 271	26Mar13 1358 by 305		
TCLP: Mercury	0.0025 mg/l	111	85.0-115			S34277	26Mar13 1119 by 271	26Mar13 1356 by 271		
TCLP Volatile Organic Compounds										
Benzene	20 ug/l	97.6	80.0-120			V8231	26Mar13 1100 by 301	26Mar13 1113 by 301		
2-Butanone	40 ug/l	89.9	30.0-150			V8231	26Mar13 1100 by 301	26Mar13 1113 by 301		
Carbon tetrachloride	20 ug/l	102	65.0-140			V8231	26Mar13 1100 by 301	26Mar13 1113 by 301		
Chlorobenzene	20 ug/l	92.5	80.0-120			V8231	26Mar13 1100 by 301	26Mar13 1113 by 301		
Chloroform	20 ug/l	98.4	65.0-135			V8231	26Mar13 1100 by 301	26Mar13 1113 by 301		
1,2-Dichloroethane	20 ug/l	96.1	70.0-130			V8231	26Mar13 1100 by 301	26Mar13 1113 by 301		
1,1-Dichloroethene	20 ug/l	105	70.0-130			V8231	26Mar13 1100 by 301	26Mar13 1113 by 301		
Tetrachloroethene	20 ug/l	99.9	45.0-150			V8231	26Mar13 1100 by 301	26Mar13 1113 by 301		
Trichloroethene	20 ug/l	101	70.0-125			V8231	26Mar13 1100 by 301	26Mar13 1113 by 301		
Vinyl chloride	20 ug/l	110	50.0-145			V8231	26Mar13 1100 by 301	26Mar13 1113 by 301		
TCLP Volatile Organic Compounds Surrogates:										
4-Bromofluorobenzene	50 ug/l	103	75.0-120			V8231	26Mar13 1100 by 301	26Mar13 1113 by 301		
Dibromofluoromethane	50 ug/l	102	85.0-115			V8231	26Mar13 1100 by 301	26Mar13 1113 by 301		
Toluene-D8	50 ug/l	97.6	85.0-120			V8231	26Mar13 1100 by 301	26Mar13 1113 by 301		
TCLP Chlorinated Herbicides										
2,4-D	0.251 mg/l	102	40.0-160			C15768		28Mar13 0837 by 07		
2,4,5-TP	0.254 mg/l	103	40.0-160			C15768		28Mar13 0837 by 07		
TCLP Base/Neutral and Acid Compounds										
Cresols	80 ug/l	66.4	39.6-107			B8245	26Mar13 1419 by 306	26Mar13 1822 by 301		
1,4-Dichlorobenzene	40 ug/l	61.8	30.0-100			B8245	26Mar13 1419 by 306	26Mar13 1822 by 301		
2,4-Dinitrotoluene	40 ug/l	74.8	50.0-120			B8245	26Mar13 1419 by 306	26Mar13 1822 by 301		
Hexachlorobenzene	40 ug/l	76.5	50.0-110			B8245	26Mar13 1419 by 306	26Mar13 1822 by 301		
Hexachlorobutadiene	40 ug/l	61.2	25.0-105			B8245	26Mar13 1419 by 306	26Mar13 1822 by 301		
Hexachloroethane	40 ug/l	60.2	30.0-100			B8245	26Mar13 1419 by 306	26Mar13 1822 by 301		
Nitrobenzene	40 ug/l	80.8	45.0-110			B8245	26Mar13 1419 by 306	26Mar13 1822 by 301		
Pentachlorophenol	40 ug/l	78.2	40.0-115			B8245	26Mar13 1419 by 306	26Mar13 1822 by 301		
Pyridine	40 ug/l	35.2	11.7-78.3			B8245	26Mar13 1419 by 306	26Mar13 1822 by 301		
2,4,5-Trichlorophenol	40 ug/l	73.8	50.0-110			B8245	26Mar13 1419 by 306	26Mar13 1822 by 301		
2,4,6-Trichlorophenol	40 ug/l	71.2	50.0-115			B8245	26Mar13 1419 by 306	26Mar13 1822 by 301		

Georgia-Pacific Chemicals, LLC-Chemical
Plant
Post Office Box 520
Highway 82 and Papermill Road
Crossett, AR 71635

LABORATORY CONTROL SAMPLE RESULTS

Analyte	Spike Amount	%	Limits	RPD	Limit	Batch	Preparation Date	Analysis Date	Dil	Qual
TCLP Base/Neutral and Acid Compounds Surrogates:										
2-Fluorobiphenyl	40 ug/l	69.5	50.0-110			B8245	26Mar13 1419 by 306	26Mar13 1822 by 301		
2-Fluorophenol	40 ug/l	63.2	20.0-110			B8245	26Mar13 1419 by 306	26Mar13 1822 by 301		
Nitrobenzene-D5	40 ug/l	81.5	40.0-110			B8245	26Mar13 1419 by 306	26Mar13 1822 by 301		
Terphenyl-D14	40 ug/l	92.5	50.0-135			B8245	26Mar13 1419 by 306	26Mar13 1822 by 301		
2,4,6-Tribromophenol	40 ug/l	76.8	40.0-125			B8245	26Mar13 1419 by 306	26Mar13 1822 by 301		
TCLP Organochlorine Pesticides										
Endrin	10 ug/l	88.1	55.0-135			G9225	27Mar13 1415 by 306	27Mar13 2146 by 306		
gamma-BHC	10 ug/l	83.7	25.0-135			G9225	27Mar13 1415 by 306	27Mar13 2146 by 306		
Heptachlor	10 ug/l	78.5	40.0-130			G9225	27Mar13 1415 by 306	27Mar13 2146 by 306		
Heptachlor epoxide	10 ug/l	87.5	60.0-130			G9225	27Mar13 1415 by 306	27Mar13 2146 by 306		
Methoxychlor	10 ug/l	95.7	55.0-150			G9225	27Mar13 1415 by 306	27Mar13 2146 by 306		
TCLP Organochlorine Pesticides Surrogates:										
Decachlorobiphenyl	20 ug/l	79.6	30.0-135			G9225	27Mar13 1415 by 306	27Mar13 2146 by 306		
Tetrachloro-m-xylene	20 ug/l	81.8	25.0-140			G9225	27Mar13 1415 by 306	27Mar13 2146 by 306		



Georgia-Pacific Chemicals, LLC-Chemical
Plant
Post Office Box 520
Highway 82 and Papermill Road
Crossett, AR 71635

MATRIX SPIKE SAMPLE RESULTS

Analyte	Sample	Spike Amount	%	Limits	Batch	Preparation Date	Analysis Date	Dil	Qual
TCLP: Arsenic	165936-1	5 mg/l	106	75.0-125	S34276	26Mar13 1118 by 271	26Mar13 1404 by 305	5	D
	165936-1	5 mg/l	108	75.0-125	S34276	26Mar13 1118 by 271	26Mar13 1410 by 305	5	D
	Relative Percent Difference:		1.86	20.0	S34276				
TCLP: Barium	165936-1	0.5 mg/l	98.4	75.0-125	S34276	26Mar13 1118 by 271	26Mar13 1404 by 305	5	D
	165936-1	0.5 mg/l	98.0	75.0-125	S34276	26Mar13 1118 by 271	26Mar13 1410 by 305	5	D
	Relative Percent Difference:		0.424	20.0	S34276				
TCLP: Cadmium	165936-1	5 mg/l	91.9	75.0-125	S34276	26Mar13 1118 by 271	26Mar13 1404 by 305	5	D
	165936-1	5 mg/l	92.8	75.0-125	S34276	26Mar13 1118 by 271	26Mar13 1410 by 305	5	D
	Relative Percent Difference:		1.00	20.0	S34276				
TCLP: Chromium	165936-1	0.5 mg/l	95.5	75.0-125	S34276	26Mar13 1118 by 271	26Mar13 1404 by 305	5	D
	165936-1	0.5 mg/l	97.2	75.0-125	S34276	26Mar13 1118 by 271	26Mar13 1410 by 305	5	D
	Relative Percent Difference:		1.80	20.0	S34276				
TCLP: Lead	165936-1	5 mg/l	97.8	75.0-125	S34276	26Mar13 1118 by 271	26Mar13 1404 by 305	5	D
	165936-1	5 mg/l	94.4	75.0-125	S34276	26Mar13 1118 by 271	26Mar13 1410 by 305	5	D
	Relative Percent Difference:		3.49	20.0	S34276				
TCLP: Selenium	165936-1	5 mg/l	101	75.0-125	S34276	26Mar13 1118 by 271	26Mar13 1404 by 305	5	D
	165936-1	5 mg/l	104	75.0-125	S34276	26Mar13 1118 by 271	26Mar13 1410 by 305	5	D
	Relative Percent Difference:		2.58	20.0	S34276				
TCLP: Silver	165936-1	0.1 mg/l	94.7	75.0-125	S34276	26Mar13 1118 by 271	26Mar13 1404 by 305	5	D
	165936-1	0.1 mg/l	87.9	75.0-125	S34276	26Mar13 1118 by 271	26Mar13 1410 by 305	5	D
	Relative Percent Difference:		7.38	20.0	S34276				
TCLP: Mercury	165936-1	0.0025 mg/l	112	70.0-130	S34277	26Mar13 1119 by 271	26Mar13 1402 by 271	40	D
	165936-1	0.0025 mg/l	111	70.0-130	S34277	26Mar13 1119 by 271	26Mar13 1407 by 271	40	D
	Relative Percent Difference:		0.359	20.0	S34277				
TCLP Volatile Organic Compounds									
Benzene	165981-1	20 ug/l	106	80.0-120	V8231	26Mar13 1100 by 301	26Mar13 1217 by 301	100	D
2-Butanone	165981-1	40 ug/l	86.6	30.0-150	V8231	26Mar13 1100 by 301	26Mar13 1217 by 301	100	D
Carbon tetrachloride	165981-1	20 ug/l	115	65.0-140	V8231	26Mar13 1100 by 301	26Mar13 1217 by 301	100	D
Chlorobenzene	165981-1	20 ug/l	103	80.0-120	V8231	26Mar13 1100 by 301	26Mar13 1217 by 301	100	D
Chloroform	165981-1	20 ug/l	106	65.0-135	V8231	26Mar13 1100 by 301	26Mar13 1217 by 301	100	D
1,2-Dichloroethane	165981-1	20 ug/l	101	70.0-130	V8231	26Mar13 1100 by 301	26Mar13 1217 by 301	100	D
1,1-Dichloroethene	165981-1	20 ug/l	113	70.0-130	V8231	26Mar13 1100 by 301	26Mar13 1217 by 301	100	D
Tetrachloroethene	165981-1	20 ug/l	113	45.0-150	V8231	26Mar13 1100 by 301	26Mar13 1217 by 301	100	D
Trichloroethene	165981-1	20 ug/l	108	70.0-125	V8231	26Mar13 1100 by 301	26Mar13 1217 by 301	100	D
Vinyl chloride	165981-1	20 ug/l	110	50.0-145	V8231	26Mar13 1100 by 301	26Mar13 1217 by 301	100	D
TCLP Volatile Organic Compounds Surrogates:									
4-Bromofluorobenzene	165981-1	50 ug/l	101	75.0-120	V8231	26Mar13 1100 by 301	26Mar13 1217 by 301	100	D
Dibromofluoromethane	165981-1	50 ug/l	105	85.0-115	V8231	26Mar13 1100 by 301	26Mar13 1217 by 301	100	D
Toluene-D8	165981-1	50 ug/l	96.8	85.0-120	V8231	26Mar13 1100 by 301	26Mar13 1217 by 301	100	D
TCLP Chlorinated Herbicides									
2,4-D	165981-1	0.251 mg/l	99.2	40.0-160	C15768		28Mar13 0837 by 07		
	165981-1	0.251 mg/l	102	40.0-160	C15768		28Mar13 0837 by 07		
	Relative Percent Difference:		2.38	20.0	C15768				

Georgia-Pacific Chemicals, LLC-Chemical
Plant
Post Office Box 520
Highway 82 and Papermill Road
Crossett, AR 71635

MATRIX SPIKE SAMPLE RESULTS

Analyte	Sample	Spike Amount	%	Limits	Batch	Preparation Date	Analysis Date	Dil	Qual
2,4,5-TP	165981-1	0.254 mg/l	99.2	40.0-160	C15768		28Mar13 0837 by 07		
	165981-1	0.254 mg/l	102	40.0-160	C15768		28Mar13 0837 by 07		
	Relative Percent Difference:		3.12	20.0	C15768				
TCLP Base/Neutral and Acid Compounds									
Cresols	165992-1	80 ug/l	72.0	41.4-102	B8245	26Mar13 1419 by 306	26Mar13 1858 by 301	10	D
	165992-1	80 ug/l	64.6	41.4-102	B8245	26Mar13 1419 by 306	26Mar13 1933 by 301	10	D
	Relative Percent Difference:		10.8	30.0	B8245				
1,4-Dichlorobenzene	165992-1	40 ug/l	66.8	30.0-100	B8245	26Mar13 1419 by 306	26Mar13 1858 by 301	10	D
	165992-1	40 ug/l	59.0	30.0-100	B8245	26Mar13 1419 by 306	26Mar13 1933 by 301	10	D
	Relative Percent Difference:		12.3	30.0	B8245				
2,4-Dinitrotoluene	165992-1	40 ug/l	82.8	50.0-120	B8245	26Mar13 1419 by 306	26Mar13 1858 by 301	10	D
	165992-1	40 ug/l	72.2	50.0-120	B8245	26Mar13 1419 by 306	26Mar13 1933 by 301	10	D
	Relative Percent Difference:		13.5	30.0	B8245				
Hexachlorobenzene	165992-1	40 ug/l	83.2	50.0-110	B8245	26Mar13 1419 by 306	26Mar13 1858 by 301	10	D
	165992-1	40 ug/l	75.8	50.0-110	B8245	26Mar13 1419 by 306	26Mar13 1933 by 301	10	D
	Relative Percent Difference:		9.43	30.0	B8245				
Hexachlorobutadiene	165992-1	40 ug/l	68.0	25.0-105	B8245	26Mar13 1419 by 306	26Mar13 1858 by 301	10	D
	165992-1	40 ug/l	57.5	25.0-105	B8245	26Mar13 1419 by 306	26Mar13 1933 by 301	10	D
	Relative Percent Difference:		16.7	30.0	B8245				
Hexachloroethane	165992-1	40 ug/l	65.5	30.0-100	B8245	26Mar13 1419 by 306	26Mar13 1858 by 301	10	D
	165992-1	40 ug/l	57.0	30.0-100	B8245	26Mar13 1419 by 306	26Mar13 1933 by 301	10	D
	Relative Percent Difference:		13.9	30.0	B8245				
Nitrobenzene	165992-1	40 ug/l	87.2	45.0-110	B8245	26Mar13 1419 by 306	26Mar13 1858 by 301	10	D
	165992-1	40 ug/l	76.8	45.0-110	B8245	26Mar13 1419 by 306	26Mar13 1933 by 301	10	D
	Relative Percent Difference:		12.8	30.0	B8245				
Pentachlorophenol	165992-1	40 ug/l	97.5	40.0-115	B8245	26Mar13 1419 by 306	26Mar13 1858 by 301	10	D
	165992-1	40 ug/l	83.5	40.0-115	B8245	26Mar13 1419 by 306	26Mar13 1933 by 301	10	D
	Relative Percent Difference:		15.5	30.0	B8245				
Pyridine	165992-1	40 ug/l	47.0	7.60-74.2	B8245	26Mar13 1419 by 306	26Mar13 1858 by 301	10	D
	165992-1	40 ug/l	40.5	7.60-74.2	B8245	26Mar13 1419 by 306	26Mar13 1933 by 301	10	D
	Relative Percent Difference:		14.9	31.7	B8245				
2,4,5-Trichlorophenol	165992-1	40 ug/l	89.5	50.0-110	B8245	26Mar13 1419 by 306	26Mar13 1858 by 301	10	D
	165992-1	40 ug/l	79.0	50.0-110	B8245	26Mar13 1419 by 306	26Mar13 1933 by 301	10	D
	Relative Percent Difference:		12.5	30.0	B8245				
2,4,6-Trichlorophenol	165992-1	40 ug/l	88.8	50.0-115	B8245	26Mar13 1419 by 306	26Mar13 1858 by 301	10	D
	165992-1	40 ug/l	78.2	50.0-115	B8245	26Mar13 1419 by 306	26Mar13 1933 by 301	10	D
	Relative Percent Difference:		12.6	30.0	B8245				
TCLP Base/Neutral and Acid Compounds Surrogates:									
2-Fluorobiphenyl	165992-1	40 ug/l	85.0	50.0-110	B8245	26Mar13 1419 by 306	26Mar13 1858 by 301		
	165992-1	40 ug/l	73.8	50.0-110	B8245	26Mar13 1419 by 306	26Mar13 1933 by 301		
2-Fluorophenol	165992-1	40 ug/l	63.2	20.0-110	B8245	26Mar13 1419 by 306	26Mar13 1858 by 301		
	165992-1	40 ug/l	55.2	20.0-110	B8245	26Mar13 1419 by 306	26Mar13 1933 by 301		
Nitrobenzene-D5	165992-1	40 ug/l	90.8	40.0-110	B8245	26Mar13 1419 by 306	26Mar13 1858 by 301		
	165992-1	40 ug/l	77.5	40.0-110	B8245	26Mar13 1419 by 306	26Mar13 1933 by 301		
Terphenyl-D14	165992-1	40 ug/l	102	50.0-135	B8245	26Mar13 1419 by 306	26Mar13 1858 by 301		
	165992-1	40 ug/l	92.5	50.0-135	B8245	26Mar13 1419 by 306	26Mar13 1933 by 301		
2,4,6-Tribromophenol	165992-1	40 ug/l	95.5	40.0-125	B8245	26Mar13 1419 by 306	26Mar13 1858 by 301		
	165992-1	40 ug/l	78.8	40.0-125	B8245	26Mar13 1419 by 306	26Mar13 1933 by 301		



Georgia-Pacific Chemicals, LLC-Chemical
Plant
Post Office Box 520
Highway 82 and Papermill Road
Crossett, AR 71635

MATRIX SPIKE SAMPLE RESULTS

Analyte	Sample	Spike Amount	%	Limits	Batch	Preparation Date	Analysis Date	Dil	Qual
TCLP Organochlorine Pesticides									
Endrin	165981-1	10 ug/l	80.8	55.0-135	G9225	27Mar13 1415 by 306	27Mar13 2204 by 306	10	D
	165981-1	10 ug/l	96.6	55.0-135	G9225	27Mar13 1415 by 306	27Mar13 2221 by 306	10	D
	Relative Percent Difference:		17.8	30.0	G9225				
gamma-BHC	165981-1	10 ug/l	78.6	25.0-135	G9225	27Mar13 1415 by 306	27Mar13 2204 by 306	10	D
	165981-1	10 ug/l	90.3	25.0-135	G9225	27Mar13 1415 by 306	27Mar13 2221 by 306	10	D
	Relative Percent Difference:		13.9	30.0	G9225				
Heptachlor	165981-1	10 ug/l	69.0	40.0-130	G9225	27Mar13 1415 by 306	27Mar13 2204 by 306	10	D
	165981-1	10 ug/l	81.2	40.0-130	G9225	27Mar13 1415 by 306	27Mar13 2221 by 306	10	D
	Relative Percent Difference:		16.2	30.0	G9225				
Heptachlor epoxide	165981-1	10 ug/l	78.6	60.0-130	G9225	27Mar13 1415 by 306	27Mar13 2204 by 306	10	D
	165981-1	10 ug/l	90.4	60.0-130	G9225	27Mar13 1415 by 306	27Mar13 2221 by 306	10	D
	Relative Percent Difference:		14.0	30.0	G9225				
Methoxychlor	165981-1	10 ug/l	90.6	55.0-150	G9225	27Mar13 1415 by 306	27Mar13 2204 by 306	10	D
	165981-1	10 ug/l	103	55.0-150	G9225	27Mar13 1415 by 306	27Mar13 2221 by 306	10	D
	Relative Percent Difference:		12.5	30.0	G9225				
TCLP Organochlorine Pesticides Surrogates:									
Decachlorobiphenyl	165981-1	20 ug/l	67.7	30.0-135	G9225	27Mar13 1415 by 306	27Mar13 2204 by 306		
	165981-1	20 ug/l	74.7	30.0-135	G9225	27Mar13 1415 by 306	27Mar13 2221 by 306		
Tetrachloro-m-xylene	165981-1	20 ug/l	58.0	25.0-140	G9225	27Mar13 1415 by 306	27Mar13 2204 by 306		
	165981-1	20 ug/l	79.6	25.0-140	G9225	27Mar13 1415 by 306	27Mar13 2221 by 306		



Georgia-Pacific Chemicals, LLC-Chemical
Plant
Post Office Box 520
Highway 82 and Papermill Road
Crossett, AR 71635

LABORATORY BLANK RESULTS

Analyte	Result	RL	PQL	QC Sample	Preparation Date	Analysis Date	Qual
TCLP: Arsenic	< 0.05 mg/l	0.05	0.05	S34276-1	26Mar13 1118 by 271	26Mar13 1352 by 305	
TCLP: Barium	< 0.002 mg/l	0.002	0.002	S34276-1	26Mar13 1118 by 271	26Mar13 1352 by 305	
TCLP: Cadmium	< 0.004 mg/l	0.004	0.004	S34276-1	26Mar13 1118 by 271	26Mar13 1352 by 305	
TCLP: Chromium	< 0.007 mg/l	0.007	0.007	S34276-1	26Mar13 1118 by 271	26Mar13 1352 by 305	
TCLP: Lead	< 0.04 mg/l	0.04	0.04	S34276-1	26Mar13 1118 by 271	26Mar13 1352 by 305	
TCLP: Selenium	< 0.07 mg/l	0.07	0.07	S34276-1	26Mar13 1118 by 271	26Mar13 1352 by 305	
TCLP: Silver	< 0.007 mg/l	0.007	0.007	S34276-1	26Mar13 1118 by 271	26Mar13 1352 by 305	
TCLP: Mercury	< 0.0002 mg/l	0.0002	0.0002	S34277-1	26Mar13 1119 by 271	26Mar13 1351 by 271	
TCLP Chlorinated Herbicides							
2,4-D	< 0.20 mg/l	0.20	0.2	C15768-1		28Mar13 0837 by 07	
2,4,5-TP	< 0.10 mg/l	0.10	0.1	C15768-1		28Mar13 0837 by 07	
TCLP Base/Neutral and Acid Compounds							
Cresols	< 0.010 mg/l	0.010	0.010	B8245-1	26Mar13 1419 by 306	26Mar13 1747 by 301	
1,4-Dichlorobenzene	< 0.0050 mg/l	0.0050	0.0050	B8245-1	26Mar13 1419 by 306	26Mar13 1747 by 301	
2,4-Dinitrotoluene	< 0.0050 mg/l	0.0050	0.0050	B8245-1	26Mar13 1419 by 306	26Mar13 1747 by 301	
Hexachlorobenzene	< 0.0050 mg/l	0.0050	0.0050	B8245-1	26Mar13 1419 by 306	26Mar13 1747 by 301	
Hexachlorobutadiene	< 0.0050 mg/l	0.0050	0.0050	B8245-1	26Mar13 1419 by 306	26Mar13 1747 by 301	
Hexachloroethane	< 0.0050 mg/l	0.0050	0.0050	B8245-1	26Mar13 1419 by 306	26Mar13 1747 by 301	
Nitrobenzene	< 0.0050 mg/l	0.0050	0.0050	B8245-1	26Mar13 1419 by 306	26Mar13 1747 by 301	
Pentachlorophenol	< 0.0050 mg/l	0.0050	0.0050	B8245-1	26Mar13 1419 by 306	26Mar13 1747 by 301	
Pyridine	< 0.0050 mg/l	0.0050	0.0050	B8245-1	26Mar13 1419 by 306	26Mar13 1747 by 301	
2,4,5-Trichlorophenol	< 0.0050 mg/l	0.0050	0.0050	B8245-1	26Mar13 1419 by 306	26Mar13 1747 by 301	
2,4,6-Trichlorophenol	< 0.0050 mg/l	0.0050	0.0050	B8245-1	26Mar13 1419 by 306	26Mar13 1747 by 301	
TCLP Base/Neutral and Acid Compounds Surrogates:							
2-Fluorobiphenyl (50.0-110%)	77.5 %			B8245-1	26Mar13 1419 by 306	26Mar13 1747 by 301	
2-Fluorophenol (20.0-110%)	68.2 %			B8245-1	26Mar13 1419 by 306	26Mar13 1747 by 301	
Nitrobenzene-D5 (40.0-110%)	80.8 %			B8245-1	26Mar13 1419 by 306	26Mar13 1747 by 301	
Terphenyl-D14 (50.0-135%)	95.0 %			B8245-1	26Mar13 1419 by 306	26Mar13 1747 by 301	
2,4,6-Tribromophenol (40.0-125%)	64.0 %			B8245-1	26Mar13 1419 by 306	26Mar13 1747 by 301	
TCLP Volatile Organic Compounds							
Benzene	< 0.0050 mg/l	0.0050	0.0050	V8231-1	26Mar13 1100 by 301	26Mar13 1325 by 301	
2-Butanone	< 0.010 mg/l	0.010	0.010	V8231-1	26Mar13 1100 by 301	26Mar13 1325 by 301	
Carbon tetrachloride	< 0.0020 mg/l	0.0020	0.0020	V8231-1	26Mar13 1100 by 301	26Mar13 1325 by 301	
Chlorobenzene	< 0.0050 mg/l	0.0050	0.0050	V8231-1	26Mar13 1100 by 301	26Mar13 1325 by 301	
Chloroform	< 0.0050 mg/l	0.0050	0.0050	V8231-1	26Mar13 1100 by 301	26Mar13 1325 by 301	
1,2-Dichloroethane	< 0.0050 mg/l	0.0050	0.0050	V8231-1	26Mar13 1100 by 301	26Mar13 1325 by 301	
1,1-Dichloroethene	< 0.0050 mg/l	0.0050	0.0050	V8231-1	26Mar13 1100 by 301	26Mar13 1325 by 301	
Tetrachloroethene	< 0.0050 mg/l	0.0050	0.0050	V8231-1	26Mar13 1100 by 301	26Mar13 1325 by 301	
Trichloroethene	< 0.0050 mg/l	0.0050	0.0050	V8231-1	26Mar13 1100 by 301	26Mar13 1325 by 301	
Vinyl chloride	< 0.0020 mg/l	0.0020	0.0020	V8231-1	26Mar13 1100 by 301	26Mar13 1325 by 301	
TCLP Volatile Organic Compounds Surrogates:							
4-Bromofluorobenzene (75.0-120%)	96.8 %			V8231-1	26Mar13 1100 by 301	26Mar13 1325 by 301	
Dibromofluoromethane (85.0-115%)	94.5 %			V8231-1	26Mar13 1100 by 301	26Mar13 1325 by 301	
Toluene-D8 (85.0-120%)	98.0 %			V8231-1	26Mar13 1100 by 301	26Mar13 1325 by 301	
TCLP Organochlorine Pesticides							
Chlordane	< 0.00010 mg/l	0.00010	0.00010	G9225-1	27Mar13 1415 by 306	27Mar13 2129 by 306	



Georgia-Pacific Chemicals, LLC-Chemical
 Plant
 Post Office Box 520
 Highway 82 and Papermill Road
 Crossett, AR 71635

LABORATORY BLANK RESULTS

<u>Analyte</u>	<u>Result</u>	<u>RL</u>	<u>PQL</u>	<u>QC Sample</u>	<u>Preparation Date</u>	<u>Analysis Date</u>	<u>Qual</u>
TCLP Organochlorine Pesticides							
Endrin	< 0.00002 mg/l	0.00002	0.00002	G9225-1	27Mar13 1415 by 306	27Mar13 2129 by 306	
gamma-BHC	< 0.00002 mg/l	0.00002	0.00002	G9225-1	27Mar13 1415 by 306	27Mar13 2129 by 306	
Heptachlor	< 0.00001 mg/l	0.00001	0.00002	G9225-1	27Mar13 1415 by 306	27Mar13 2129 by 306	
Heptachlor epoxide	< 0.00001 mg/l	0.00001	0.00002	G9225-1	27Mar13 1415 by 306	27Mar13 2129 by 306	
Methoxychlor	< 0.00002 mg/l	0.00002	0.00002	G9225-1	27Mar13 1415 by 306	27Mar13 2129 by 306	
Toxaphene	< 0.00020 mg/l	0.00020	0.00020	G9225-1	27Mar13 1415 by 306	27Mar13 2129 by 306	
TCLP Organochlorine Pesticides Surrogates:							
Decachlorobiphenyl (30.0-135%)	96.3 %			G9225-1	27Mar13 1415 by 306	27Mar13 2129 by 306	
Tetrachloro-m-xylene (25.0-140%)	95.8 %			G9225-1	27Mar13 1415 by 306	27Mar13 2129 by 306	



Georgia-Pacific Chemicals, LLC-Chemical
Plant
ATTN: Mr. Tom Hudson
Post Office Box 520
Highway 82 and Papermill Road
Crossett, AR 71635

This report contains the analytical results and supporting information for the sample submitted on March 29, 2013. Attached please find a copy of the Chain of Custody and/or other documents received. Note that any remaining sample will be discarded two weeks from the original report date unless other arrangements are made.

This report is intended for the sole use of the client listed above. Assessment of the data requires access to the entire document.

This report has been reviewed by the Laboratory Director or a qualified designee.

John Overbey
Laboratory Director

A handwritten signature in black ink, appearing to read 'John Overbey', is written over a horizontal line. Below the line, the name 'John Overbey' and title 'Laboratory Director' are printed in a standard font.

This document has been distributed to the following:

PDF cc: Georgia-Pacific Corporation
ATTN: Ms. Rachel Johnson
rachel.childress@gapac.com



Georgia-Pacific Chemicals, LLC-Chemical
Plant
Post Office Box 520
Highway 82 and Papermill Road
Crossett, AR 71635

SAMPLE INFORMATION

Project Description:

One (1) soil sample(s) (AIC Control No.165981) Resubmitted March 29, 2013
Fill Dirt to Pond Testing
P.O. No. P554130677

Receipt Details:

A Chain of Custody was provided. The samples were delivered in one (1) ice chest.

Each sample container was checked for proper labeling, including date and time sampled. Sample containers were reviewed for proper type, adequate volume, integrity, temperature, preservation, and holding times. Any exceptions are noted below:

Sample Identification:

<u>Laboratory ID</u>	<u>Client Sample ID</u>	<u>Sampled Date/Time</u>	<u>Notes</u>
166162-1	Fill Dirt to Pond 3/20/13 13:45	20-Mar-2013 1345	

Qualifiers:

- R n-Nitrosodiphenylamine cannot be separated from diphenylamine
- W Result is presented on a Wet Weight Basis

Case Narrative:

Matrix spike / matrix spike duplicate results for Organochlorine Pesticides, Herbicides, and Base/Neutral and Acid Compounds are not available due to insufficient sample submitted.

Analysis of soils/sludges are reported on a dry-weight basis unless specified.

References:

- "Methods for Chemical Analysis of Water and Wastes", EPA/600/4-79-020 (Mar 1983) with updates and supplements EPA/600/5-91-010 (Jun 1991), EPA/600/R-92-129 (Aug 1992) and EPA/600/R-93-100 (Aug 1993).
- "Test Methods for Evaluating Solid Waste Physical/Chemical Methods (SW846)", Third Edition.
- "Standard Methods for the Examination of Water and Wastewaters", 21st edition.
- "American Society for Testing and Materials" (ASTM).
- "Association of Analytical Chemists" (AOAC).

Georgia-Pacific Chemicals, LLC-Chemical
Plant
Post Office Box 520
Highway 82 and Papermill Road
Crossett, AR 71635

ANALYTICAL RESULTS

AIC No. 166162-1

Sample Identification: Fill Dirt to Pond 3/20/13 13:45

Analyte	Result	RL	Units	Qualifier
Arsenic EPA 3051A, 6010C	< 5	5	mg/Kg	
Prep: 01-Apr-2013 1318 by 100	Analyzed: 01-Apr-2013 1614 by 305		Batch: S34321	
Barium EPA 3051A, 6010C	98	0.2	mg/Kg	
Prep: 01-Apr-2013 1318 by 100	Analyzed: 01-Apr-2013 1614 by 305		Batch: S34321	
Cadmium EPA 3051A, 6010C	< 0.4	0.4	mg/Kg	
Prep: 01-Apr-2013 1318 by 100	Analyzed: 01-Apr-2013 1614 by 305		Batch: S34321	
Chromium EPA 3051A, 6010C	18	0.7	mg/Kg	
Prep: 01-Apr-2013 1318 by 100	Analyzed: 01-Apr-2013 1614 by 305		Batch: S34321	
Lead EPA 3051A, 6010C	7.4	4	mg/Kg	
Prep: 01-Apr-2013 1318 by 100	Analyzed: 01-Apr-2013 1614 by 305		Batch: S34321	
Selenium EPA 3051A, 6010C	< 7	7	mg/Kg	
Prep: 01-Apr-2013 1318 by 100	Analyzed: 01-Apr-2013 1614 by 305		Batch: S34321	
Silver EPA 3051A, 6010C	< 0.7	0.7	mg/Kg	
Prep: 01-Apr-2013 1318 by 100	Analyzed: 01-Apr-2013 1614 by 305		Batch: S34321	
Mercury EPA 7471B	< 0.1	0.1	mg/Kg	
Prep: 01-Apr-2013 1459 by 271	Analyzed: 02-Apr-2013 1211 by 271		Batch: S34322	
Base/Neutral and Acid Compounds By EPA 3550C, 8270D				
3 & 4-Methylphenol EPA 3550C, 8270D	< 330	330	ug/Kg	W
Prep: 01-Apr-2013 1347 by 306	Analyzed: 01-Apr-2013 1845 by 301		Batch: B8257	
Acenaphthene EPA 3550C, 8270D	< 330	330	ug/Kg	W
Prep: 01-Apr-2013 1347 by 306	Analyzed: 01-Apr-2013 1845 by 301		Batch: B8257	
Acenaphthylene EPA 3550C, 8270D	< 330	330	ug/Kg	W
Prep: 01-Apr-2013 1347 by 306	Analyzed: 01-Apr-2013 1845 by 301		Batch: B8257	
Anthracene EPA 3550C, 8270D	< 330	330	ug/Kg	W
Prep: 01-Apr-2013 1347 by 306	Analyzed: 01-Apr-2013 1845 by 301		Batch: B8257	
Benzo(a)anthracene EPA 3550C, 8270D	< 330	330	ug/Kg	W
Prep: 01-Apr-2013 1347 by 306	Analyzed: 01-Apr-2013 1845 by 301		Batch: B8257	
Benzo(a)pyrene EPA 3550C, 8270D	< 330	330	ug/Kg	W
Prep: 01-Apr-2013 1347 by 306	Analyzed: 01-Apr-2013 1845 by 301		Batch: B8257	
Benzo(b)fluoranthene EPA 3550C, 8270D	< 330	330	ug/Kg	W
Prep: 01-Apr-2013 1347 by 306	Analyzed: 01-Apr-2013 1845 by 301		Batch: B8257	
Benzo(g,h,i)perylene EPA 3550C, 8270D	< 330	330	ug/Kg	W
Prep: 01-Apr-2013 1347 by 306	Analyzed: 01-Apr-2013 1845 by 301		Batch: B8257	
Benzo(k)fluoranthene EPA 3550C, 8270D	< 330	330	ug/Kg	W
Prep: 01-Apr-2013 1347 by 306	Analyzed: 01-Apr-2013 1845 by 301		Batch: B8257	
Benzoic acid EPA 3550C, 8270D	< 1700	1700	ug/Kg	W
Prep: 01-Apr-2013 1347 by 306	Analyzed: 01-Apr-2013 1845 by 301		Batch: B8257	
Benzyl alcohol EPA 3550C, 8270D	< 330	330	ug/Kg	W
Prep: 01-Apr-2013 1347 by 306	Analyzed: 01-Apr-2013 1845 by 301		Batch: B8257	

Georgia-Pacific Chemicals, LLC-Chemical
Plant
Post Office Box 520
Highway 82 and Papermill Road
Crossett, AR 71635

ANALYTICAL RESULTS

AIC No. 166162-1 (Continued)

Sample Identification: Fill Dirt to Pond 3/20/13 13:45

Analyte	Result	RL	Units	Qualifier
Base/Neutral and Acid Compounds By EPA 3550C, 8270D (Continued)				
bis(2-Chloroethoxy)Methane EPA 3550C, 8270D Prep: 01-Apr-2013 1347 by 306	< 330	330	ug/Kg	W
	Analyzed: 01-Apr-2013 1845 by 301		Batch: B8257	
bis(2-Chloroethyl)Ether EPA 3550C, 8270D Prep: 01-Apr-2013 1347 by 306	< 330	330	ug/Kg	W
	Analyzed: 01-Apr-2013 1845 by 301		Batch: B8257	
bis(2-Chloroisopropyl)Ether EPA 3550C, 8270D Prep: 01-Apr-2013 1347 by 306	< 330	330	ug/Kg	W
	Analyzed: 01-Apr-2013 1845 by 301		Batch: B8257	
bis(2-Ethylhexyl)Phthalate EPA 3550C, 8270D Prep: 01-Apr-2013 1347 by 306	< 330	330	ug/Kg	W
	Analyzed: 01-Apr-2013 1845 by 301		Batch: B8257	
4-Bromophenyl phenyl ether EPA 3550C, 8270D Prep: 01-Apr-2013 1347 by 306	< 330	330	ug/Kg	W
	Analyzed: 01-Apr-2013 1845 by 301		Batch: B8257	
Butyl benzyl phthalate EPA 3550C, 8270D Prep: 01-Apr-2013 1347 by 306	< 330	330	ug/Kg	W
	Analyzed: 01-Apr-2013 1845 by 301		Batch: B8257	
4-Chloro-3-methylphenol EPA 3550C, 8270D Prep: 01-Apr-2013 1347 by 306	< 330	330	ug/Kg	W
	Analyzed: 01-Apr-2013 1845 by 301		Batch: B8257	
4-Chloroaniline EPA 3550C, 8270D Prep: 01-Apr-2013 1347 by 306	< 330	330	ug/Kg	W
	Analyzed: 01-Apr-2013 1845 by 301		Batch: B8257	
2-Chloronaphthalene EPA 3550C, 8270D Prep: 01-Apr-2013 1347 by 306	< 330	330	ug/Kg	W
	Analyzed: 01-Apr-2013 1845 by 301		Batch: B8257	
2-Chlorophenol EPA 3550C, 8270D Prep: 01-Apr-2013 1347 by 306	< 330	330	ug/Kg	W
	Analyzed: 01-Apr-2013 1845 by 301		Batch: B8257	
4-Chlorophenyl phenyl ether EPA 3550C, 8270D Prep: 01-Apr-2013 1347 by 306	< 330	330	ug/Kg	W
	Analyzed: 01-Apr-2013 1845 by 301		Batch: B8257	
Chrysene EPA 3550C, 8270D Prep: 01-Apr-2013 1347 by 306	< 330	330	ug/Kg	W
	Analyzed: 01-Apr-2013 1845 by 301		Batch: B8257	
Di-n-butyl phthalate EPA 3550C, 8270D Prep: 01-Apr-2013 1347 by 306	< 330	330	ug/Kg	W
	Analyzed: 01-Apr-2013 1845 by 301		Batch: B8257	
Di-n-octyl phthalate EPA 3550C, 8270D Prep: 01-Apr-2013 1347 by 306	< 330	330	ug/Kg	W
	Analyzed: 01-Apr-2013 1845 by 301		Batch: B8257	
Dibenz(a,h)anthracene EPA 3550C, 8270D Prep: 01-Apr-2013 1347 by 306	< 330	330	ug/Kg	W
	Analyzed: 01-Apr-2013 1845 by 301		Batch: B8257	
Dibenzofuran EPA 3550C, 8270D Prep: 01-Apr-2013 1347 by 306	< 330	330	ug/Kg	W
	Analyzed: 01-Apr-2013 1845 by 301		Batch: B8257	
1,2-Dichlorobenzene EPA 3550C, 8270D Prep: 01-Apr-2013 1347 by 306	< 330	330	ug/Kg	W
	Analyzed: 01-Apr-2013 1845 by 301		Batch: B8257	
1,3-Dichlorobenzene EPA 3550C, 8270D Prep: 01-Apr-2013 1347 by 306	< 330	330	ug/Kg	W
	Analyzed: 01-Apr-2013 1845 by 301		Batch: B8257	
1,4-Dichlorobenzene EPA 3550C, 8270D Prep: 01-Apr-2013 1347 by 306	< 330	330	ug/Kg	W
	Analyzed: 01-Apr-2013 1845 by 301		Batch: B8257	

Georgia-Pacific Chemicals, LLC-Chemical
Plant
Post Office Box 520
Highway 82 and Papermill Road
Crossett, AR 71635

ANALYTICAL RESULTS

AIC No. 166162-1 (Continued)
Sample Identification: Fill Dirt to Pond 3/20/13 13:45

Analyte	Result	RL	Units	Qualifier
Base/Neutral and Acid Compounds By EPA 3550C, 8270D (Continued)				
3,3'-Dichlorobenzidine EPA 3550C, 8270D	< 330	330	ug/Kg	W
Prep: 01-Apr-2013 1347 by 306	Analyzed: 01-Apr-2013 1845 by 301		Batch: B8257	
2,4-Dichlorophenol EPA 3550C, 8270D	< 330	330	ug/Kg	W
Prep: 01-Apr-2013 1347 by 306	Analyzed: 01-Apr-2013 1845 by 301		Batch: B8257	
Diethyl phthalate EPA 3550C, 8270D	< 330	330	ug/Kg	W
Prep: 01-Apr-2013 1347 by 306	Analyzed: 01-Apr-2013 1845 by 301		Batch: B8257	
Dimethyl phthalate EPA 3550C, 8270D	< 330	330	ug/Kg	W
Prep: 01-Apr-2013 1347 by 306	Analyzed: 01-Apr-2013 1845 by 301		Batch: B8257	
2,4-Dimethylphenol EPA 3550C, 8270D	< 330	330	ug/Kg	W
Prep: 01-Apr-2013 1347 by 306	Analyzed: 01-Apr-2013 1845 by 301		Batch: B8257	
4,6-Dinitro-2-methylphenol EPA 3550C, 8270D	< 330	330	ug/Kg	W
Prep: 01-Apr-2013 1347 by 306	Analyzed: 01-Apr-2013 1845 by 301		Batch: B8257	
2,4-Dinitrophenol EPA 3550C, 8270D	< 330	330	ug/Kg	W
Prep: 01-Apr-2013 1347 by 306	Analyzed: 01-Apr-2013 1845 by 301		Batch: B8257	
2,4-Dinitrotoluene EPA 3550C, 8270D	< 330	330	ug/Kg	W
Prep: 01-Apr-2013 1347 by 306	Analyzed: 01-Apr-2013 1845 by 301		Batch: B8257	
2,6-Dinitrotoluene EPA 3550C, 8270D	< 330	330	ug/Kg	W
Prep: 01-Apr-2013 1347 by 306	Analyzed: 01-Apr-2013 1845 by 301		Batch: B8257	
Fluoranthene EPA 3550C, 8270D	< 330	330	ug/Kg	W
Prep: 01-Apr-2013 1347 by 306	Analyzed: 01-Apr-2013 1845 by 301		Batch: B8257	
Fluorene EPA 3550C, 8270D	< 330	330	ug/Kg	W
Prep: 01-Apr-2013 1347 by 306	Analyzed: 01-Apr-2013 1845 by 301		Batch: B8257	
Hexachlorobenzene EPA 3550C, 8270D	< 330	330	ug/Kg	W
Prep: 01-Apr-2013 1347 by 306	Analyzed: 01-Apr-2013 1845 by 301		Batch: B8257	
Hexachlorobutadiene EPA 3550C, 8270D	< 330	330	ug/Kg	W
Prep: 01-Apr-2013 1347 by 306	Analyzed: 01-Apr-2013 1845 by 301		Batch: B8257	
Hexachlorocyclopentadiene EPA 3550C, 8270D	< 330	330	ug/Kg	W
Prep: 01-Apr-2013 1347 by 306	Analyzed: 01-Apr-2013 1845 by 301		Batch: B8257	
Hexachloroethane EPA 3550C, 8270D	< 330	330	ug/Kg	W
Prep: 01-Apr-2013 1347 by 306	Analyzed: 01-Apr-2013 1845 by 301		Batch: B8257	
Indeno(1,2,3-cd)pyrene EPA 3550C, 8270D	< 330	330	ug/Kg	W
Prep: 01-Apr-2013 1347 by 306	Analyzed: 01-Apr-2013 1845 by 301		Batch: B8257	
Isophorone EPA 3550C, 8270D	< 330	330	ug/Kg	W
Prep: 01-Apr-2013 1347 by 306	Analyzed: 01-Apr-2013 1845 by 301		Batch: B8257	
2-Methylnaphthalene EPA 3550C, 8270D	< 330	330	ug/Kg	W
Prep: 01-Apr-2013 1347 by 306	Analyzed: 01-Apr-2013 1845 by 301		Batch: B8257	
2-Methylphenol EPA 3550C, 8270D	< 330	330	ug/Kg	W
Prep: 01-Apr-2013 1347 by 306	Analyzed: 01-Apr-2013 1845 by 301		Batch: B8257	

Georgia-Pacific Chemicals, LLC-Chemical
Plant
Post Office Box 520
Highway 82 and Papermill Road
Crossett, AR 71635

ANALYTICAL RESULTS

AIC No. 166162-1 (Continued)

Sample Identification: Fill Dirt to Pond 3/20/13 13:45

Analyte	Result	RL	Units	Qualifier
Base/Neutral and Acid Compounds By EPA 3550C, 8270D (Continued)				
N-Nitroso-di-n-propylamine EPA 3550C, 8270D	< 330	330	ug/Kg	W
Prep: 01-Apr-2013 1347 by 306	Analyzed: 01-Apr-2013 1845 by 301		Batch: B8257	
n-Nitrosodiphenylamine EPA 3550C, 8270D	< 330	330	ug/Kg	WR
Prep: 01-Apr-2013 1347 by 306	Analyzed: 01-Apr-2013 1845 by 301		Batch: B8257	
Naphthalene EPA 3550C, 8270D	< 330	330	ug/Kg	W
Prep: 01-Apr-2013 1347 by 306	Analyzed: 01-Apr-2013 1845 by 301		Batch: B8257	
2-Nitroaniline EPA 3550C, 8270D	< 330	330	ug/Kg	W
Prep: 01-Apr-2013 1347 by 306	Analyzed: 01-Apr-2013 1845 by 301		Batch: B8257	
3-Nitroaniline EPA 3550C, 8270D	< 330	330	ug/Kg	W
Prep: 01-Apr-2013 1347 by 306	Analyzed: 01-Apr-2013 1845 by 301		Batch: B8257	
4-Nitroaniline EPA 3550C, 8270D	< 330	330	ug/Kg	W
Prep: 01-Apr-2013 1347 by 306	Analyzed: 01-Apr-2013 1845 by 301		Batch: B8257	
Nitrobenzene EPA 3550C, 8270D	< 330	330	ug/Kg	W
Prep: 01-Apr-2013 1347 by 306	Analyzed: 01-Apr-2013 1845 by 301		Batch: B8257	
2-Nitrophenol EPA 3550C, 8270D	< 330	330	ug/Kg	W
Prep: 01-Apr-2013 1347 by 306	Analyzed: 01-Apr-2013 1845 by 301		Batch: B8257	
4-Nitrophenol EPA 3550C, 8270D	< 330	330	ug/Kg	W
Prep: 01-Apr-2013 1347 by 306	Analyzed: 01-Apr-2013 1845 by 301		Batch: B8257	
Pentachlorophenol EPA 3550C, 8270D	< 330	330	ug/Kg	W
Prep: 01-Apr-2013 1347 by 306	Analyzed: 01-Apr-2013 1845 by 301		Batch: B8257	
Phenanthrene EPA 3550C, 8270D	< 330	330	ug/Kg	W
Prep: 01-Apr-2013 1347 by 306	Analyzed: 01-Apr-2013 1845 by 301		Batch: B8257	
Phenol EPA 3550C, 8270D	< 330	330	ug/Kg	W
Prep: 01-Apr-2013 1347 by 306	Analyzed: 01-Apr-2013 1845 by 301		Batch: B8257	
Pyrene EPA 3550C, 8270D	< 330	330	ug/Kg	W
Prep: 01-Apr-2013 1347 by 306	Analyzed: 01-Apr-2013 1845 by 301		Batch: B8257	
1,2,4-Trichlorobenzene EPA 3550C, 8270D	< 330	330	ug/Kg	W
Prep: 01-Apr-2013 1347 by 306	Analyzed: 01-Apr-2013 1845 by 301		Batch: B8257	
2,4,5-Trichlorophenol EPA 3550C, 8270D	< 330	330	ug/Kg	W
Prep: 01-Apr-2013 1347 by 306	Analyzed: 01-Apr-2013 1845 by 301		Batch: B8257	
2,4,6-Trichlorophenol EPA 3550C, 8270D	< 330	330	ug/Kg	W
Prep: 01-Apr-2013 1347 by 306	Analyzed: 01-Apr-2013 1845 by 301		Batch: B8257	
Surrogate: 2-Fluorobiphenyl (45.0-105%) EPA 3550C, 8270D	75.0		%	W
Prep: 01-Apr-2013 1347 by 306	Analyzed: 01-Apr-2013 1845 by 301		Batch: B8257	
Surrogate: 2-Fluorophenol (35.0-105%) EPA 3550C, 8270D	76.2		%	W
Prep: 01-Apr-2013 1347 by 306	Analyzed: 01-Apr-2013 1845 by 301		Batch: B8257	
Surrogate: Nitrobenzene-D5 (35.0-100%) EPA 3550C, 8270D	71.8		%	W
Prep: 01-Apr-2013 1347 by 306	Analyzed: 01-Apr-2013 1845 by 301		Batch: B8257	

Georgia-Pacific Chemicals, LLC-Chemical
Plant
Post Office Box 520
Highway 82 and Papermill Road
Crossett, AR 71635

ANALYTICAL RESULTS

AIC No. 166162-1 (Continued)

Sample Identification: Fill Dirt to Pond 3/20/13 13:45

Analyte	Result	RL	Units	Qualifier
Base/Neutral and Acid Compounds By EPA 3550C, 8270D (Continued)				
Surrogate: Terphenyl-D14 (30.0-125%) EPA 3550C, 8270D	88.0		%	W
Prep: 01-Apr-2013 1347 by 306	Analyzed: 01-Apr-2013 1845 by 301		Batch: B8257	
Surrogate: 2,4,6-Tribromophenol (35.0-125%) EPA 3550C, 8270D	75.8		%	W
Prep: 01-Apr-2013 1347 by 306	Analyzed: 01-Apr-2013 1845 by 301		Batch: B8257	
Volatile Organic Compounds By EPA 5035, 8260C				
Acetone EPA 5035, 8260C	< 10	10	ug/Kg	W
Prep: 01-Apr-2013 0859 by 301	Analyzed: 04-Apr-2013 1046 by 301		Batch: V8235	
Benzene EPA 5035, 8260C	< 5.0	5.0	ug/Kg	W
Prep: 01-Apr-2013 0859 by 301	Analyzed: 04-Apr-2013 1046 by 301		Batch: V8235	
Bromobenzene EPA 5035, 8260C	< 5.0	5.0	ug/Kg	W
Prep: 01-Apr-2013 0859 by 301	Analyzed: 04-Apr-2013 1046 by 301		Batch: V8235	
Bromochloromethane EPA 5035, 8260C	< 5.0	5.0	ug/Kg	W
Prep: 01-Apr-2013 0859 by 301	Analyzed: 04-Apr-2013 1046 by 301		Batch: V8235	
Bromodichloromethane EPA 5035, 8260C	< 5.0	5.0	ug/Kg	W
Prep: 01-Apr-2013 0859 by 301	Analyzed: 04-Apr-2013 1046 by 301		Batch: V8235	
Bromoform EPA 5035, 8260C	< 5.0	5.0	ug/Kg	W
Prep: 01-Apr-2013 0859 by 301	Analyzed: 04-Apr-2013 1046 by 301		Batch: V8235	
Bromomethane EPA 5035, 8260C	< 5.0	5.0	ug/Kg	W
Prep: 01-Apr-2013 0859 by 301	Analyzed: 04-Apr-2013 1046 by 301		Batch: V8235	
2-Butanone EPA 5035, 8260C	< 10	10	ug/Kg	W
Prep: 01-Apr-2013 0859 by 301	Analyzed: 04-Apr-2013 1046 by 301		Batch: V8235	
Carbon disulfide EPA 5035, 8260C	< 10	10	ug/Kg	W
Prep: 01-Apr-2013 0859 by 301	Analyzed: 04-Apr-2013 1046 by 301		Batch: V8235	
Carbon Tetrachloride EPA 5035, 8260C	< 5.0	5.0	ug/Kg	W
Prep: 01-Apr-2013 0859 by 301	Analyzed: 04-Apr-2013 1046 by 301		Batch: V8235	
Chlorobenzene EPA 5035, 8260C	< 5.0	5.0	ug/Kg	W
Prep: 01-Apr-2013 0859 by 301	Analyzed: 04-Apr-2013 1046 by 301		Batch: V8235	
Chloroethane EPA 5035, 8260C	< 5.0	5.0	ug/Kg	W
Prep: 01-Apr-2013 0859 by 301	Analyzed: 04-Apr-2013 1046 by 301		Batch: V8235	
2-Chloroethyl vinyl ether EPA 5035, 8260C	< 10	10	ug/Kg	W
Prep: 01-Apr-2013 0859 by 301	Analyzed: 04-Apr-2013 1046 by 301		Batch: V8235	
Chloroform EPA 5035, 8260C	< 5.0	5.0	ug/Kg	W
Prep: 01-Apr-2013 0859 by 301	Analyzed: 04-Apr-2013 1046 by 301		Batch: V8235	
Chloromethane EPA 5035, 8260C	< 5.0	5.0	ug/Kg	W
Prep: 01-Apr-2013 0859 by 301	Analyzed: 04-Apr-2013 1046 by 301		Batch: V8235	
2-Chlorotoluene EPA 5035, 8260C	< 5.0	5.0	ug/Kg	W
Prep: 01-Apr-2013 0859 by 301	Analyzed: 04-Apr-2013 1046 by 301		Batch: V8235	

Georgia-Pacific Chemicals, LLC-Chemical
Plant
Post Office Box 520
Highway 82 and Papermill Road
Crossett, AR 71635

ANALYTICAL RESULTS

AIC No. 166162-1 (Continued)

Sample Identification: Fill Dirt to Pond 3/20/13 13:45

Analyte	Result	RL	Units	Qualifier
Volatile Organic Compounds By EPA 5035, 8260C (Continued)				
4-Chlorotoluene EPA 5035, 8260C	< 5.0	5.0	ug/Kg	W
Prep: 01-Apr-2013 0859 by 301	Analyzed: 04-Apr-2013 1046 by 301		Batch: V8235	
1,2-Dibromo-3-chloropropane EPA 5035, 8260C	< 5.0	5.0	ug/Kg	W
Prep: 01-Apr-2013 0859 by 301	Analyzed: 04-Apr-2013 1046 by 301		Batch: V8235	
Dibromochloromethane EPA 5035, 8260C	< 5.0	5.0	ug/Kg	W
Prep: 01-Apr-2013 0859 by 301	Analyzed: 04-Apr-2013 1046 by 301		Batch: V8235	
1,2-Dibromoethane EPA 5035, 8260C	< 5.0	5.0	ug/Kg	W
Prep: 01-Apr-2013 0859 by 301	Analyzed: 04-Apr-2013 1046 by 301		Batch: V8235	
Dibromomethane EPA 5035, 8260C	< 5.0	5.0	ug/Kg	W
Prep: 01-Apr-2013 0859 by 301	Analyzed: 04-Apr-2013 1046 by 301		Batch: V8235	
1,2-Dichlorobenzene EPA 5035, 8260C	< 5.0	5.0	ug/Kg	W
Prep: 01-Apr-2013 0859 by 301	Analyzed: 04-Apr-2013 1046 by 301		Batch: V8235	
1,3-Dichlorobenzene EPA 5035, 8260C	< 5.0	5.0	ug/Kg	W
Prep: 01-Apr-2013 0859 by 301	Analyzed: 04-Apr-2013 1046 by 301		Batch: V8235	
1,4-Dichlorobenzene EPA 5035, 8260C	< 5.0	5.0	ug/Kg	W
Prep: 01-Apr-2013 0859 by 301	Analyzed: 04-Apr-2013 1046 by 301		Batch: V8235	
Dichlorodifluoromethane EPA 5035, 8260C	< 5.0	5.0	ug/Kg	W
Prep: 01-Apr-2013 0859 by 301	Analyzed: 04-Apr-2013 1046 by 301		Batch: V8235	
1,1-Dichloroethane EPA 5035, 8260C	< 5.0	5.0	ug/Kg	W
Prep: 01-Apr-2013 0859 by 301	Analyzed: 04-Apr-2013 1046 by 301		Batch: V8235	
1,2-Dichloroethane EPA 5035, 8260C	< 5.0	5.0	ug/Kg	W
Prep: 01-Apr-2013 0859 by 301	Analyzed: 04-Apr-2013 1046 by 301		Batch: V8235	
1,1-Dichloroethene EPA 5035, 8260C	< 5.0	5.0	ug/Kg	W
Prep: 01-Apr-2013 0859 by 301	Analyzed: 04-Apr-2013 1046 by 301		Batch: V8235	
cis-1,2-Dichloroethene EPA 5035, 8260C	< 5.0	5.0	ug/Kg	W
Prep: 01-Apr-2013 0859 by 301	Analyzed: 04-Apr-2013 1046 by 301		Batch: V8235	
trans-1,2-Dichloroethene EPA 5035, 8260C	< 5.0	5.0	ug/Kg	W
Prep: 01-Apr-2013 0859 by 301	Analyzed: 04-Apr-2013 1046 by 301		Batch: V8235	
1,2-Dichloropropane EPA 5035, 8260C	< 5.0	5.0	ug/Kg	W
Prep: 01-Apr-2013 0859 by 301	Analyzed: 04-Apr-2013 1046 by 301		Batch: V8235	
1,3-Dichloropropane EPA 5035, 8260C	< 5.0	5.0	ug/Kg	W
Prep: 01-Apr-2013 0859 by 301	Analyzed: 04-Apr-2013 1046 by 301		Batch: V8235	
2,2-Dichloropropane EPA 5035, 8260C	< 5.0	5.0	ug/Kg	W
Prep: 01-Apr-2013 0859 by 301	Analyzed: 04-Apr-2013 1046 by 301		Batch: V8235	
1,1-Dichloropropene EPA 5035, 8260C	< 5.0	5.0	ug/Kg	W
Prep: 01-Apr-2013 0859 by 301	Analyzed: 04-Apr-2013 1046 by 301		Batch: V8235	
cis-1,3-Dichloropropene EPA 5035, 8260C	< 5.0	5.0	ug/Kg	W
Prep: 01-Apr-2013 0859 by 301	Analyzed: 04-Apr-2013 1046 by 301		Batch: V8235	

Georgia-Pacific Chemicals, LLC-Chemical
Plant
Post Office Box 520
Highway 82 and Papermill Road
Crossett, AR 71635

ANALYTICAL RESULTS

AIC No. 166162-1 (Continued)

Sample Identification: Fill Dirt to Pond 3/20/13 13:45

Analyte	Result	RL	Units	Qualifier
Volatile Organic Compounds By EPA 5035, 8260C (Continued)				
trans-1,3-Dichloropropene EPA 5035, 8260C	< 5.0	5.0	ug/Kg	W
Prep: 01-Apr-2013 0859 by 301	Analyzed: 04-Apr-2013 1046 by 301		Batch: V8235	
Ethylbenzene EPA 5035, 8260C	< 5.0	5.0	ug/Kg	W
Prep: 01-Apr-2013 0859 by 301	Analyzed: 04-Apr-2013 1046 by 301		Batch: V8235	
Hexachlorobutadiene EPA 5035, 8260C	< 5.0	5.0	ug/Kg	W
Prep: 01-Apr-2013 0859 by 301	Analyzed: 04-Apr-2013 1046 by 301		Batch: V8235	
2-Hexanone EPA 5035, 8260C	< 10	10	ug/Kg	W
Prep: 01-Apr-2013 0859 by 301	Analyzed: 04-Apr-2013 1046 by 301		Batch: V8235	
Isopropylbenzene EPA 5035, 8260C	< 5.0	5.0	ug/Kg	W
Prep: 01-Apr-2013 0859 by 301	Analyzed: 04-Apr-2013 1046 by 301		Batch: V8235	
m&p-Xylenes EPA 5035, 8260C	< 10	10	ug/Kg	W
Prep: 01-Apr-2013 0859 by 301	Analyzed: 04-Apr-2013 1046 by 301		Batch: V8235	
4-Methyl-2-pentanone EPA 5035, 8260C	< 10	10	ug/Kg	W
Prep: 01-Apr-2013 0859 by 301	Analyzed: 04-Apr-2013 1046 by 301		Batch: V8235	
Methylene chloride EPA 5035, 8260C	< 5.0	5.0	ug/Kg	W
Prep: 01-Apr-2013 0859 by 301	Analyzed: 04-Apr-2013 1046 by 301		Batch: V8235	
n-Butylbenzene EPA 5035, 8260C	< 5.0	5.0	ug/Kg	W
Prep: 01-Apr-2013 0859 by 301	Analyzed: 04-Apr-2013 1046 by 301		Batch: V8235	
n-Propylbenzene EPA 5035, 8260C	< 5.0	5.0	ug/Kg	W
Prep: 01-Apr-2013 0859 by 301	Analyzed: 04-Apr-2013 1046 by 301		Batch: V8235	
Naphthalene EPA 5035, 8260C	< 5.0	5.0	ug/Kg	W
Prep: 01-Apr-2013 0859 by 301	Analyzed: 04-Apr-2013 1046 by 301		Batch: V8235	
o-Xylene EPA 5035, 8260C	< 5.0	5.0	ug/Kg	W
Prep: 01-Apr-2013 0859 by 301	Analyzed: 04-Apr-2013 1046 by 301		Batch: V8235	
p-Isopropyltoluene EPA 5035, 8260C	< 5.0	5.0	ug/Kg	W
Prep: 01-Apr-2013 0859 by 301	Analyzed: 04-Apr-2013 1046 by 301		Batch: V8235	
sec-Butylbenzene EPA 5035, 8260C	< 5.0	5.0	ug/Kg	W
Prep: 01-Apr-2013 0859 by 301	Analyzed: 04-Apr-2013 1046 by 301		Batch: V8235	
Styrene EPA 5035, 8260C	< 5.0	5.0	ug/Kg	W
Prep: 01-Apr-2013 0859 by 301	Analyzed: 04-Apr-2013 1046 by 301		Batch: V8235	
tert-Butylbenzene EPA 5035, 8260C	< 5.0	5.0	ug/Kg	W
Prep: 01-Apr-2013 0859 by 301	Analyzed: 04-Apr-2013 1046 by 301		Batch: V8235	
1,1,1,2-Tetrachloroethane EPA 5035, 8260C	< 5.0	5.0	ug/Kg	W
Prep: 01-Apr-2013 0859 by 301	Analyzed: 04-Apr-2013 1046 by 301		Batch: V8235	
1,1,2,2-Tetrachloroethane EPA 5035, 8260C	< 5.0	5.0	ug/Kg	W
Prep: 01-Apr-2013 0859 by 301	Analyzed: 04-Apr-2013 1046 by 301		Batch: V8235	
Tetrachloroethene EPA 5035, 8260C	< 5.0	5.0	ug/Kg	W
Prep: 01-Apr-2013 0859 by 301	Analyzed: 04-Apr-2013 1046 by 301		Batch: V8235	

Georgia-Pacific Chemicals, LLC-Chemical
Plant
Post Office Box 520
Highway 82 and Papermill Road
Crossett, AR 71635

ANALYTICAL RESULTS

AIC No. 166162-1 (Continued)

Sample Identification: Fill Dirt to Pond 3/20/13 13:45

Analyte	Result	RL	Units	Qualifier
Volatile Organic Compounds By EPA 5035, 8260C (Continued)				
Toluene EPA 5035, 8260C	< 5.0	5.0	ug/Kg	W
Prep: 01-Apr-2013 0859 by 301	Analyzed: 04-Apr-2013 1046 by 301		Batch: V8235	
1,2,3-Trichlorobenzene EPA 5035, 8260C	< 5.0	5.0	ug/Kg	W
Prep: 01-Apr-2013 0859 by 301	Analyzed: 04-Apr-2013 1046 by 301		Batch: V8235	
1,2,4-Trichlorobenzene EPA 5035, 8260C	< 5.0	5.0	ug/Kg	W
Prep: 01-Apr-2013 0859 by 301	Analyzed: 04-Apr-2013 1046 by 301		Batch: V8235	
1,1,1-Trichloroethane EPA 5035, 8260C	< 5.0	5.0	ug/Kg	W
Prep: 01-Apr-2013 0859 by 301	Analyzed: 04-Apr-2013 1046 by 301		Batch: V8235	
1,1,2-Trichloroethane EPA 5035, 8260C	< 5.0	5.0	ug/Kg	W
Prep: 01-Apr-2013 0859 by 301	Analyzed: 04-Apr-2013 1046 by 301		Batch: V8235	
Trichloroethene EPA 5035, 8260C	< 5.0	5.0	ug/Kg	W
Prep: 01-Apr-2013 0859 by 301	Analyzed: 04-Apr-2013 1046 by 301		Batch: V8235	
Trichlorofluoromethane EPA 5035, 8260C	< 5.0	5.0	ug/Kg	W
Prep: 01-Apr-2013 0859 by 301	Analyzed: 04-Apr-2013 1046 by 301		Batch: V8235	
1,2,3-Trichloropropane EPA 5035, 8260C	< 5.0	5.0	ug/Kg	W
Prep: 01-Apr-2013 0859 by 301	Analyzed: 04-Apr-2013 1046 by 301		Batch: V8235	
1,2,4-Trimethylbenzene EPA 5035, 8260C	< 5.0	5.0	ug/Kg	W
Prep: 01-Apr-2013 0859 by 301	Analyzed: 04-Apr-2013 1046 by 301		Batch: V8235	
1,3,5-Trimethylbenzene EPA 5035, 8260C	< 5.0	5.0	ug/Kg	W
Prep: 01-Apr-2013 0859 by 301	Analyzed: 04-Apr-2013 1046 by 301		Batch: V8235	
Vinyl acetate EPA 5035, 8260C	< 10	10	ug/Kg	W
Prep: 01-Apr-2013 0859 by 301	Analyzed: 04-Apr-2013 1046 by 301		Batch: V8235	
Vinyl chloride EPA 5035, 8260C	< 5.0	5.0	ug/Kg	W
Prep: 01-Apr-2013 0859 by 301	Analyzed: 04-Apr-2013 1046 by 301		Batch: V8235	
Surrogate: 4-Bromofluorobenzene (85.0-120%) EPA 5035, 8260C	88.5		%	W
Prep: 01-Apr-2013 0859 by 301	Analyzed: 04-Apr-2013 1046 by 301		Batch: V8235	
Surrogate: Dibromofluoromethane (83.4-114%) EPA 5035, 8260C	92.5		%	W
Prep: 01-Apr-2013 0859 by 301	Analyzed: 04-Apr-2013 1046 by 301		Batch: V8235	
Surrogate: Toluene-D8 (85.0-115%) EPA 5035, 8260C	101		%	W
Prep: 01-Apr-2013 0859 by 301	Analyzed: 04-Apr-2013 1046 by 301		Batch: V8235	
Organochlorine Pesticides By EPA 3550C, 8081B				
Aldrin EPA 3550C, 8081B	< 0.67	0.67	ug/Kg	W
Prep: 01-Apr-2013 1414 by 306	Analyzed: 01-Apr-2013 1757 by 306		Batch: G9233	
alpha-BHC EPA 3550C, 8081B	< 1.4	1.4	ug/Kg	W
Prep: 01-Apr-2013 1414 by 306	Analyzed: 01-Apr-2013 1757 by 306		Batch: G9233	
alpha-Endosulfan EPA 3550C, 8081B	< 0.67	0.67	ug/Kg	W
Prep: 01-Apr-2013 1414 by 306	Analyzed: 01-Apr-2013 1757 by 306		Batch: G9233	

Georgia-Pacific Chemicals, LLC-Chemical
Plant
Post Office Box 520
Highway 82 and Papermill Road
Crossett, AR 71635

ANALYTICAL RESULTS

AIC No. 166162-1 (Continued)

Sample Identification: Fill Dirt to Pond 3/20/13 13:45

Analyte	Result	RL	Units	Qualifier
Organochlorine Pesticides By EPA 3550C, 8081B (Continued)				
beta-BHC EPA 3550C, 8081B Prep: 01-Apr-2013 1414 by 306	< 1.4	1.4	ug/Kg	W
	Analyzed: 01-Apr-2013 1757 by 306		Batch: G9233	
beta-Endosulfan EPA 3550C, 8081B Prep: 01-Apr-2013 1414 by 306	< 1.4	1.4	ug/Kg	W
	Analyzed: 01-Apr-2013 1757 by 306		Batch: G9233	
Chlordane EPA 3550C, 8081B Prep: 01-Apr-2013 1414 by 306	< 6.7	6.7	ug/Kg	W
	Analyzed: 01-Apr-2013 1757 by 306		Batch: G9233	
4,4'-DDD EPA 3550C, 8081B Prep: 01-Apr-2013 1414 by 306	< 1.4	1.4	ug/Kg	W
	Analyzed: 01-Apr-2013 1757 by 306		Batch: G9233	
4,4'-DDE EPA 3550C, 8081B Prep: 01-Apr-2013 1414 by 306	< 1.4	1.4	ug/Kg	W
	Analyzed: 01-Apr-2013 1757 by 306		Batch: G9233	
4,4'-DDT EPA 3550C, 8081B Prep: 01-Apr-2013 1414 by 306	< 1.4	1.4	ug/Kg	W
	Analyzed: 01-Apr-2013 1757 by 306		Batch: G9233	
delta-BHC EPA 3550C, 8081B Prep: 01-Apr-2013 1414 by 306	< 1.4	1.4	ug/Kg	W
	Analyzed: 01-Apr-2013 1757 by 306		Batch: G9233	
Dieldrin EPA 3550C, 8081B Prep: 01-Apr-2013 1414 by 306	< 1.4	1.4	ug/Kg	W
	Analyzed: 01-Apr-2013 1757 by 306		Batch: G9233	
Endosulfan sulfate EPA 3550C, 8081B Prep: 01-Apr-2013 1414 by 306	< 1.4	1.4	ug/Kg	W
	Analyzed: 01-Apr-2013 1757 by 306		Batch: G9233	
Endrin EPA 3550C, 8081B Prep: 01-Apr-2013 1414 by 306	< 1.4	1.4	ug/Kg	W
	Analyzed: 01-Apr-2013 1757 by 306		Batch: G9233	
Endrin aldehyde EPA 3550C, 8081B Prep: 01-Apr-2013 1414 by 306	< 1.4	1.4	ug/Kg	W
	Analyzed: 01-Apr-2013 1757 by 306		Batch: G9233	
gamma-BHC EPA 3550C, 8081B Prep: 01-Apr-2013 1414 by 306	< 1.4	1.4	ug/Kg	W
	Analyzed: 01-Apr-2013 1757 by 306		Batch: G9233	
Heptachlor EPA 3550C, 8081B Prep: 01-Apr-2013 1414 by 306	< 0.67	0.67	ug/Kg	W
	Analyzed: 01-Apr-2013 1757 by 306		Batch: G9233	
Heptachlor epoxide EPA 3550C, 8081B Prep: 01-Apr-2013 1414 by 306	< 0.67	0.67	ug/Kg	W
	Analyzed: 01-Apr-2013 1757 by 306		Batch: G9233	
Methoxychlor EPA 3550C, 8081B Prep: 01-Apr-2013 1414 by 306	< 1.4	1.4	ug/Kg	W
	Analyzed: 01-Apr-2013 1757 by 306		Batch: G9233	
Toxaphene EPA 3550C, 8081B Prep: 01-Apr-2013 1414 by 306	< 14	14	ug/Kg	W
	Analyzed: 01-Apr-2013 1757 by 306		Batch: G9233	
Surrogate: Decachlorobiphenyl (55.0-130%) EPA 3550C, 8081B Prep: 01-Apr-2013 1414 by 306	96.8		%	W
	Analyzed: 01-Apr-2013 1757 by 306		Batch: G9233	
Surrogate: Tetrachloro-m-xylene (70.0-125%) EPA 3550C, 8081B Prep: 01-Apr-2013 1414 by 306	91.1		%	W
	Analyzed: 01-Apr-2013 1757 by 306		Batch: G9233	
Chlorinated Herbicides By EPA 8151A				
2,4-D EPA 8151A Prep: 02-Apr-2013 1113 by 301	< 2.1	2.1	ug/Kg	W
	Analyzed: 04-Apr-2013 1116 by 306		Batch: G9234	



Georgia-Pacific Chemicals, LLC-Chemical
Plant
Post Office Box 520
Highway 82 and Papermill Road
Crossett, AR 71635

ANALYTICAL RESULTS

AIC No. 166162-1 (Continued)
Sample Identification: Fill Dirt to Pond 3/20/13 13:45

Analyte	Result	RL	Units	Qualifier
Chlorinated Herbicides By EPA 8151A (Continued)				
2,4,5-T EPA 8151A	< 2.1 Prep: 02-Apr-2013 1113 by 301	2.1 Analyzed: 04-Apr-2013 1116 by 306	ug/Kg Batch: G9234	W
2,4,5-TP EPA 8151A	< 2.1 Prep: 02-Apr-2013 1113 by 301	2.1 Analyzed: 04-Apr-2013 1116 by 306	ug/Kg Batch: G9234	W
Surrogate: Dichlorophenylacetic Acid (23.5-155%) EPA 8151A	29.1 Prep: 02-Apr-2013 1113 by 301	Analyzed: 04-Apr-2013 1116 by 306	% Batch: G9234	W



Georgia-Pacific Chemicals, LLC-Chemical Plant
Post Office Box 520
Highway 82 and Papermill Road
Crossett, AR 71635

LABORATORY CONTROL SAMPLE RESULTS

Analyte	Spike Amount	%	Limits	RPD	Limit	Batch	Preparation Date	Analysis Date	Dil	Qual
Arsenic	500 mg/Kg	107	85.0-115			S34321	01Apr13 1318 by 100	01Apr13 1451 by 305		
Barium	50.0 mg/Kg	102	85.0-115			S34321	01Apr13 1318 by 100	01Apr13 1451 by 305		
Cadmium	500 mg/Kg	101	85.0-115			S34321	01Apr13 1318 by 100	01Apr13 1451 by 305		
Chromium	50.0 mg/Kg	104	85.0-115			S34321	01Apr13 1318 by 100	01Apr13 1451 by 305		
Lead	500 mg/Kg	97.3	85.0-115			S34321	01Apr13 1318 by 100	01Apr13 1451 by 305		
Selenium	500 mg/Kg	102	85.0-115			S34321	01Apr13 1318 by 100	01Apr13 1451 by 305		
Silver	10.0 mg/Kg	91.9	85.0-115			S34321	01Apr13 1318 by 100	01Apr13 1451 by 305		
Mercury	1.25 mg/Kg	90.8	85.0-115			S34322	01Apr13 1459 by 271	02Apr13 1156 by 271		
Base/Neutral and Acid Compounds										
3 & 4-Methylphenol	2670 ug/Kg	70.8	40.0-105			B8257	01Apr13 1347 by 306	01Apr13 1738 by 301		
	2670 ug/Kg	71.2	40.0-105	0.704	30.0	B8257	01Apr13 1347 by 306	01Apr13 1811 by 301		
Acenaphthene	2670 ug/Kg	71.0	45.0-110			B8257	01Apr13 1347 by 306	01Apr13 1738 by 301		
	2670 ug/Kg	71.8	45.0-110	1.05	30.0	B8257	01Apr13 1347 by 306	01Apr13 1811 by 301		
Acenaphthylene	2670 ug/Kg	71.0	45.0-105			B8257	01Apr13 1347 by 306	01Apr13 1738 by 301		
	2670 ug/Kg	71.0	45.0-105	0.00	30.0	B8257	01Apr13 1347 by 306	01Apr13 1811 by 301		
Anthracene	2670 ug/Kg	75.5	55.0-105			B8257	01Apr13 1347 by 306	01Apr13 1738 by 301		
	2670 ug/Kg	75.0	55.0-105	0.664	30.0	B8257	01Apr13 1347 by 306	01Apr13 1811 by 301		
Benzo(a)anthracene	2670 ug/Kg	75.5	50.0-110			B8257	01Apr13 1347 by 306	01Apr13 1738 by 301		
	2670 ug/Kg	76.0	50.0-110	0.660	30.0	B8257	01Apr13 1347 by 306	01Apr13 1811 by 301		
Benzo(a)pyrene	2670 ug/Kg	76.8	50.0-110			B8257	01Apr13 1347 by 306	01Apr13 1738 by 301		
	2670 ug/Kg	76.8	50.0-110	0.00	30.0	B8257	01Apr13 1347 by 306	01Apr13 1811 by 301		
Benzo(b)fluoranthene	2670 ug/Kg	75.0	45.0-115			B8257	01Apr13 1347 by 306	01Apr13 1738 by 301		
	2670 ug/Kg	78.0	45.0-115	3.92	30.0	B8257	01Apr13 1347 by 306	01Apr13 1811 by 301		
Benzo(g,h,i)perylene	2670 ug/Kg	83.0	40.0-125			B8257	01Apr13 1347 by 306	01Apr13 1738 by 301		
	2670 ug/Kg	79.8	40.0-125	3.99	30.0	B8257	01Apr13 1347 by 306	01Apr13 1811 by 301		
Benzo(k)fluoranthene	2670 ug/Kg	77.5	45.0-125			B8257	01Apr13 1347 by 306	01Apr13 1738 by 301		
	2670 ug/Kg	76.2	45.0-125	1.63	30.0	B8257	01Apr13 1347 by 306	01Apr13 1811 by 301		
Benzoic acid	6670 ug/Kg	48.5	0.00-110			B8257	01Apr13 1347 by 306	01Apr13 1738 by 301		
	6670 ug/Kg	50.0	0.00-110	3.05	30.0	B8257	01Apr13 1347 by 306	01Apr13 1811 by 301		
Benzyl alcohol	2670 ug/Kg	72.5	20.0-125			B8257	01Apr13 1347 by 306	01Apr13 1738 by 301		
	2670 ug/Kg	72.2	20.0-125	0.345	30.0	B8257	01Apr13 1347 by 306	01Apr13 1811 by 301		
bis(2-Chloroethoxy)Methane	2670 ug/Kg	72.2	45.0-110			B8257	01Apr13 1347 by 306	01Apr13 1738 by 301		
	2670 ug/Kg	72.5	45.0-110	0.345	30.0	B8257	01Apr13 1347 by 306	01Apr13 1811 by 301		
bis(2-Chloroethyl)Ether	2670 ug/Kg	68.5	40.0-105			B8257	01Apr13 1347 by 306	01Apr13 1738 by 301		
	2670 ug/Kg	68.0	40.0-105	0.733	30.0	B8257	01Apr13 1347 by 306	01Apr13 1811 by 301		
bis(2-Chloroisopropyl)Ether	2670 ug/Kg	71.0	20.0-115			B8257	01Apr13 1347 by 306	01Apr13 1738 by 301		
	2670 ug/Kg	71.5	20.0-115	0.702	30.0	B8257	01Apr13 1347 by 306	01Apr13 1811 by 301		
bis(2-Ethylhexyl)Phthalate	2670 ug/Kg	81.0	45.0-125			B8257	01Apr13 1347 by 306	01Apr13 1738 by 301		
	2670 ug/Kg	80.2	45.0-125	0.930	30.0	B8257	01Apr13 1347 by 306	01Apr13 1811 by 301		
4-Bromophenyl phenyl ether	2670 ug/Kg	76.8	45.0-115			B8257	01Apr13 1347 by 306	01Apr13 1738 by 301		
	2670 ug/Kg	75.8	45.0-115	1.31	30.0	B8257	01Apr13 1347 by 306	01Apr13 1811 by 301		
Butyl benzyl phthalate	2670 ug/Kg	82.0	50.0-125			B8257	01Apr13 1347 by 306	01Apr13 1738 by 301		
	2670 ug/Kg	79.0	50.0-125	3.73	30.0	B8257	01Apr13 1347 by 306	01Apr13 1811 by 301		



Georgia-Pacific Chemicals, LLC-Chemical Plant
Post Office Box 520
Highway 82 and Papermill Road
Crossett, AR 71635

LABORATORY CONTROL SAMPLE RESULTS

Analyte	Spike Amount	%	Limits	RPD	Limit	Batch	Preparation Date	Analysis Date	Dil	Qual
4-Chloro-3-methylphenol	2670 ug/Kg	75.0	45.0-115			B8257	01Apr13 1347 by 306	01Apr13 1738 by 301		
	2670 ug/Kg	75.5	45.0-115	0.664	30.0	B8257	01Apr13 1347 by 306	01Apr13 1811 by 301		
4-Chloroaniline	2670 ug/Kg	67.5	10.0-100			B8257	01Apr13 1347 by 306	01Apr13 1738 by 301		
	2670 ug/Kg	69.0	10.0-100	2.20	30.0	B8257	01Apr13 1347 by 306	01Apr13 1811 by 301		
2-Chloronaphthalene	2670 ug/Kg	70.5	45.0-105			B8257	01Apr13 1347 by 306	01Apr13 1738 by 301		
	2670 ug/Kg	70.8	45.0-105	0.354	30.0	B8257	01Apr13 1347 by 306	01Apr13 1811 by 301		
2-Chlorophenol	2670 ug/Kg	69.8	45.0-105			B8257	01Apr13 1347 by 306	01Apr13 1738 by 301		
	2670 ug/Kg	70.0	45.0-105	0.358	30.0	B8257	01Apr13 1347 by 306	01Apr13 1811 by 301		
4-Chlorophenyl phenyl ether	2670 ug/Kg	73.8	45.0-110			B8257	01Apr13 1347 by 306	01Apr13 1738 by 301		
	2670 ug/Kg	73.8	45.0-110	0.00	30.0	B8257	01Apr13 1347 by 306	01Apr13 1811 by 301		
Chrysene	2670 ug/Kg	77.0	55.0-110			B8257	01Apr13 1347 by 306	01Apr13 1738 by 301		
	2670 ug/Kg	78.0	55.0-110	1.29	30.0	B8257	01Apr13 1347 by 306	01Apr13 1811 by 301		
Di-n-butyl phthalate	2670 ug/Kg	77.8	55.0-110			B8257	01Apr13 1347 by 306	01Apr13 1738 by 301		
	2670 ug/Kg	77.2	55.0-110	0.645	30.0	B8257	01Apr13 1347 by 306	01Apr13 1811 by 301		
Di-n-octyl phthalate	2670 ug/Kg	78.2	40.0-130			B8257	01Apr13 1347 by 306	01Apr13 1738 by 301		
	2670 ug/Kg	77.5	40.0-130	0.963	30.0	B8257	01Apr13 1347 by 306	01Apr13 1811 by 301		
Dibenz(a,h)anthracene	2670 ug/Kg	79.2	40.0-125			B8257	01Apr13 1347 by 306	01Apr13 1738 by 301		
	2670 ug/Kg	78.0	40.0-125	1.59	30.0	B8257	01Apr13 1347 by 306	01Apr13 1811 by 301		
Dibenzofuran	2670 ug/Kg	70.5	50.0-105			B8257	01Apr13 1347 by 306	01Apr13 1738 by 301		
	2670 ug/Kg	71.5	50.0-105	1.41	30.0	B8257	01Apr13 1347 by 306	01Apr13 1811 by 301		
1,2-Dichlorobenzene	2670 ug/Kg	70.0	45.0-100			B8257	01Apr13 1347 by 306	01Apr13 1738 by 301		
	2670 ug/Kg	69.0	45.0-100	1.44	30.0	B8257	01Apr13 1347 by 306	01Apr13 1811 by 301		
1,3-Dichlorobenzene	2670 ug/Kg	66.8	40.0-100			B8257	01Apr13 1347 by 306	01Apr13 1738 by 301		
	2670 ug/Kg	67.0	40.0-100	0.374	30.0	B8257	01Apr13 1347 by 306	01Apr13 1811 by 301		
1,4-Dichlorobenzene	2670 ug/Kg	67.5	35.0-105			B8257	01Apr13 1347 by 306	01Apr13 1738 by 301		
	2670 ug/Kg	67.2	35.0-105	0.371	30.0	B8257	01Apr13 1347 by 306	01Apr13 1811 by 301		
3,3'-Dichlorobenzidine	2670 ug/Kg	112	10.0-130			B8257	01Apr13 1347 by 306	01Apr13 1738 by 301		
	2670 ug/Kg	121	10.0-130	7.28	30.0	B8257	01Apr13 1347 by 306	01Apr13 1811 by 301		
2,4-Dichlorophenol	2670 ug/Kg	71.5	45.0-110			B8257	01Apr13 1347 by 306	01Apr13 1738 by 301		
	2670 ug/Kg	71.8	45.0-110	0.349	30.0	B8257	01Apr13 1347 by 306	01Apr13 1811 by 301		
Diethyl phthalate	2670 ug/Kg	75.8	50.0-115			B8257	01Apr13 1347 by 306	01Apr13 1738 by 301		
	2670 ug/Kg	76.8	50.0-115	1.31	30.0	B8257	01Apr13 1347 by 306	01Apr13 1811 by 301		
Dimethyl phthalate	2670 ug/Kg	75.2	50.0-110			B8257	01Apr13 1347 by 306	01Apr13 1738 by 301		
	2670 ug/Kg	76.0	50.0-110	0.992	30.0	B8257	01Apr13 1347 by 306	01Apr13 1811 by 301		
2,4-Dimethylphenol	2670 ug/Kg	70.0	30.0-105			B8257	01Apr13 1347 by 306	01Apr13 1738 by 301		
	2670 ug/Kg	70.8	30.0-105	1.07	30.0	B8257	01Apr13 1347 by 306	01Apr13 1811 by 301		
4,6-Dinitro-2-methylphenol	2670 ug/Kg	86.2	30.0-135			B8257	01Apr13 1347 by 306	01Apr13 1738 by 301		
	2670 ug/Kg	89.5	30.0-135	3.70	30.0	B8257	01Apr13 1347 by 306	01Apr13 1811 by 301		
2,4-Dinitrophenol	2670 ug/Kg	80.0	15.0-130			B8257	01Apr13 1347 by 306	01Apr13 1738 by 301		
	2670 ug/Kg	83.8	15.0-130	4.58	30.0	B8257	01Apr13 1347 by 306	01Apr13 1811 by 301		
2,4-Dinitrotoluene	2670 ug/Kg	74.0	50.0-115			B8257	01Apr13 1347 by 306	01Apr13 1738 by 301		
	2670 ug/Kg	76.2	50.0-115	3.00	30.0	B8257	01Apr13 1347 by 306	01Apr13 1811 by 301		
2,6-Dinitrotoluene	2670 ug/Kg	74.0	50.0-110			B8257	01Apr13 1347 by 306	01Apr13 1738 by 301		
	2670 ug/Kg	75.2	50.0-110	1.68	30.0	B8257	01Apr13 1347 by 306	01Apr13 1811 by 301		
Fluoranthene	2670 ug/Kg	76.2	55.0-115			B8257	01Apr13 1347 by 306	01Apr13 1738 by 301		
	2670 ug/Kg	78.8	55.0-115	3.23	30.0	B8257	01Apr13 1347 by 306	01Apr13 1811 by 301		



Georgia-Pacific Chemicals, LLC-Chemical Plant
Post Office Box 520
Highway 82 and Papermill Road
Crossett, AR 71635

LABORATORY CONTROL SAMPLE RESULTS

Analyte	Spike Amount	%	Limits	RPD	Limit	Batch	Preparation Date	Analysis Date	Dil	Qual
Base/Neutral and Acid Compounds (Continued)										
Fluorene	2670 ug/Kg	74.2	50.0-110			B8257	01Apr13 1347 by 306	01Apr13 1738 by 301		
	2670 ug/Kg	73.2	50.0-110	1.36	30.0	B8257	01Apr13 1347 by 306	01Apr13 1811 by 301		
Hexachlorobenzene	2670 ug/Kg	76.2	45.0-120			B8257	01Apr13 1347 by 306	01Apr13 1738 by 301		
	2670 ug/Kg	76.2	45.0-120	0.00	30.0	B8257	01Apr13 1347 by 306	01Apr13 1811 by 301		
Hexachlorobutadiene	2670 ug/Kg	69.8	40.0-115			B8257	01Apr13 1347 by 306	01Apr13 1738 by 301		
	2670 ug/Kg	69.0	40.0-115	1.08	30.0	B8257	01Apr13 1347 by 306	01Apr13 1811 by 301		
Hexachlorocyclopentadiene	2670 ug/Kg	72.0	31.4-118			B8257	01Apr13 1347 by 306	01Apr13 1738 by 301		
	2670 ug/Kg	72.2	31.4-118	0.347	30.0	B8257	01Apr13 1347 by 306	01Apr13 1811 by 301		
Hexachloroethane	2670 ug/Kg	68.2	35.0-110			B8257	01Apr13 1347 by 306	01Apr13 1738 by 301		
	2670 ug/Kg	68.2	35.0-110	0.00	30.0	B8257	01Apr13 1347 by 306	01Apr13 1811 by 301		
Indeno(1,2,3-cd)pyrene	2670 ug/Kg	80.5	40.0-120			B8257	01Apr13 1347 by 306	01Apr13 1738 by 301		
	2670 ug/Kg	79.5	40.0-120	1.25	30.0	B8257	01Apr13 1347 by 306	01Apr13 1811 by 301		
Isophorone	2670 ug/Kg	71.2	45.0-110			B8257	01Apr13 1347 by 306	01Apr13 1738 by 301		
	2670 ug/Kg	71.0	45.0-110	0.351	30.0	B8257	01Apr13 1347 by 306	01Apr13 1811 by 301		
2-Methylnaphthalene	2670 ug/Kg	71.8	45.0-105			B8257	01Apr13 1347 by 306	01Apr13 1738 by 301		
	2670 ug/Kg	70.8	45.0-105	1.40	30.0	B8257	01Apr13 1347 by 306	01Apr13 1811 by 301		
2-Methylphenol	2670 ug/Kg	71.8	40.0-105			B8257	01Apr13 1347 by 306	01Apr13 1738 by 301		
	2670 ug/Kg	72.2	40.0-105	0.694	30.0	B8257	01Apr13 1347 by 306	01Apr13 1811 by 301		
N-Nitroso-di-n-propylamine	2670 ug/Kg	67.5	40.0-115			B8257	01Apr13 1347 by 306	01Apr13 1738 by 301		
	2670 ug/Kg	67.8	40.0-115	0.370	30.0	B8257	01Apr13 1347 by 306	01Apr13 1811 by 301		
n-Nitrosodiphenylamine	2670 ug/Kg	76.0	50.0-115			B8257	01Apr13 1347 by 306	01Apr13 1738 by 301		
	2670 ug/Kg	75.2	50.0-115	0.992	30.0	B8257	01Apr13 1347 by 306	01Apr13 1811 by 301		
Naphthalene	2670 ug/Kg	69.8	40.0-105			B8257	01Apr13 1347 by 306	01Apr13 1738 by 301		
	2670 ug/Kg	69.2	40.0-105	0.719	30.0	B8257	01Apr13 1347 by 306	01Apr13 1811 by 301		
2-Nitroaniline	2670 ug/Kg	73.2	45.0-120			B8257	01Apr13 1347 by 306	01Apr13 1738 by 301		
	2670 ug/Kg	75.0	45.0-120	2.36	30.0	B8257	01Apr13 1347 by 306	01Apr13 1811 by 301		
3-Nitroaniline	2670 ug/Kg	67.8	25.0-110			B8257	01Apr13 1347 by 306	01Apr13 1738 by 301		
	2670 ug/Kg	73.5	25.0-110	8.14	30.0	B8257	01Apr13 1347 by 306	01Apr13 1811 by 301		
4-Nitroaniline	2670 ug/Kg	75.5	35.0-115			B8257	01Apr13 1347 by 306	01Apr13 1738 by 301		
	2670 ug/Kg	80.5	35.0-115	6.41	30.0	B8257	01Apr13 1347 by 306	01Apr13 1811 by 301		
Nitrobenzene	2670 ug/Kg	70.0	40.0-115			B8257	01Apr13 1347 by 306	01Apr13 1738 by 301		
	2670 ug/Kg	70.5	40.0-115	0.712	30.0	B8257	01Apr13 1347 by 306	01Apr13 1811 by 301		
2-Nitrophenol	2670 ug/Kg	71.0	40.0-110			B8257	01Apr13 1347 by 306	01Apr13 1738 by 301		
	2670 ug/Kg	71.8	40.0-110	1.05	30.0	B8257	01Apr13 1347 by 306	01Apr13 1811 by 301		
4-Nitrophenol	2670 ug/Kg	77.0	15.0-140			B8257	01Apr13 1347 by 306	01Apr13 1738 by 301		
	2670 ug/Kg	81.0	15.0-140	5.06	30.0	B8257	01Apr13 1347 by 306	01Apr13 1811 by 301		
Pentachlorophenol	2670 ug/Kg	82.2	25.0-120			B8257	01Apr13 1347 by 306	01Apr13 1738 by 301		
	2670 ug/Kg	84.0	25.0-120	2.11	30.0	B8257	01Apr13 1347 by 306	01Apr13 1811 by 301		
Phenanthrene	2670 ug/Kg	75.0	50.0-110			B8257	01Apr13 1347 by 306	01Apr13 1738 by 301		
	2670 ug/Kg	73.8	50.0-110	1.68	30.0	B8257	01Apr13 1347 by 306	01Apr13 1811 by 301		
Phenol	2670 ug/Kg	72.2	40.0-100			B8257	01Apr13 1347 by 306	01Apr13 1738 by 301		
	2670 ug/Kg	72.0	40.0-100	0.347	30.0	B8257	01Apr13 1347 by 306	01Apr13 1811 by 301		
Pyrene	2670 ug/Kg	82.5	45.0-125			B8257	01Apr13 1347 by 306	01Apr13 1738 by 301		
	2670 ug/Kg	75.2	45.0-125	9.19	30.0	B8257	01Apr13 1347 by 306	01Apr13 1811 by 301		



Georgia-Pacific Chemicals, LLC-Chemical Plant
Post Office Box 520
Highway 82 and Papermill Road
Crossett, AR 71635

LABORATORY CONTROL SAMPLE RESULTS

Analyte	Spike Amount	%	Limits	RPD	Limit	Batch	Preparation Date	Analysis Date	Dil	Qual
Base/Neutral and Acid Compounds (Continued)										
1,2,4-Trichlorobenzene	2670 ug/Kg	71.2	45.0-110			B8257	01Apr13 1347 by 306	01Apr13 1738 by 301		
	2670 ug/Kg	71.8	45.0-110	0.699	30.0	B8257	01Apr13 1347 by 306	01Apr13 1811 by 301		
2,4,5-Trichlorophenol	2670 ug/Kg	74.5	50.0-110			B8257	01Apr13 1347 by 306	01Apr13 1738 by 301		
	2670 ug/Kg	75.5	50.0-110	1.33	30.0	B8257	01Apr13 1347 by 306	01Apr13 1811 by 301		
2,4,6-Trichlorophenol	2670 ug/Kg	72.5	45.0-110			B8257	01Apr13 1347 by 306	01Apr13 1738 by 301		
	2670 ug/Kg	73.2	45.0-110	1.03	30.0	B8257	01Apr13 1347 by 306	01Apr13 1811 by 301		
Base/Neutral and Acid Compounds Surrogates:										
2-Fluorobiphenyl	2670 ug/Kg	74.2	45.0-105			B8257	01Apr13 1347 by 306	01Apr13 1738 by 301		
	2670 ug/Kg	74.5	45.0-105	-	-	B8257	01Apr13 1347 by 306	01Apr13 1811 by 301		
2-Fluorophenol	2670 ug/Kg	72.8	35.0-105			B8257	01Apr13 1347 by 306	01Apr13 1738 by 301		
	2670 ug/Kg	73.5	35.0-105	-	-	B8257	01Apr13 1347 by 306	01Apr13 1811 by 301		
Nitrobenzene-D5	2670 ug/Kg	73.5	35.0-100			B8257	01Apr13 1347 by 306	01Apr13 1738 by 301		
	2670 ug/Kg	73.8	35.0-100	-	-	B8257	01Apr13 1347 by 306	01Apr13 1811 by 301		
Terphenyl-D14	2670 ug/Kg	95.2	30.0-125			B8257	01Apr13 1347 by 306	01Apr13 1738 by 301		
	2670 ug/Kg	88.2	30.0-125	-	-	B8257	01Apr13 1347 by 306	01Apr13 1811 by 301		
2,4,6-Tribromophenol	2670 ug/Kg	82.8	35.0-125			B8257	01Apr13 1347 by 306	01Apr13 1738 by 301		
	2670 ug/Kg	82.0	35.0-125	-	-	B8257	01Apr13 1347 by 306	01Apr13 1811 by 301		
Volatile Organic Compounds										
Acetone	40.0 ug/Kg	94.5	20.0-160			V8235	01Apr13 0900 by 301	04Apr13 0729 by 301		
Benzene	20.0 ug/Kg	107	75.0-125			V8235	01Apr13 0900 by 301	04Apr13 0729 by 301		
Bromobenzene	20.0 ug/Kg	101	65.0-120			V8235	01Apr13 0900 by 301	04Apr13 0729 by 301		
Bromochloromethane	20.0 ug/Kg	96.6	70.0-125			V8235	01Apr13 0900 by 301	04Apr13 0729 by 301		
Bromodichloromethane	20.0 ug/Kg	102	70.0-130			V8235	01Apr13 0900 by 301	04Apr13 0729 by 301		
Bromoform	20.0 ug/Kg	106	55.0-135			V8235	01Apr13 0900 by 301	04Apr13 0729 by 301		
Bromomethane	20.0 ug/Kg	101	30.0-160			V8235	01Apr13 0900 by 301	04Apr13 0729 by 301		
2-Butanone	40.0 ug/Kg	95.7	30.0-160			V8235	01Apr13 0900 by 301	04Apr13 0729 by 301		
Carbon disulfide	40.0 ug/Kg	91.0	45.0-160			V8235	01Apr13 0900 by 301	04Apr13 0729 by 301		
Carbon tetrachloride	20.0 ug/Kg	97.9	65.0-135			V8235	01Apr13 0900 by 301	04Apr13 0729 by 301		
Chlorobenzene	20.0 ug/Kg	105	75.0-125			V8235	01Apr13 0900 by 301	04Apr13 0729 by 301		
Chloroethane	20.0 ug/Kg	99.0	40.0-155			V8235	01Apr13 0900 by 301	04Apr13 0729 by 301		
2-Chloroethyl vinyl ether	40.0 ug/Kg	106	74.7-120			V8235	01Apr13 0900 by 301	04Apr13 0729 by 301		
Chloroform	20.0 ug/Kg	98.4	70.0-125			V8235	01Apr13 0900 by 301	04Apr13 0729 by 301		
Chloromethane	20.0 ug/Kg	98.4	50.0-130			V8235	01Apr13 0900 by 301	04Apr13 0729 by 301		
2-Chlorotoluene	20.0 ug/Kg	102	70.0-130			V8235	01Apr13 0900 by 301	04Apr13 0729 by 301		
4-Chlorotoluene	20.0 ug/Kg	102	75.0-125			V8235	01Apr13 0900 by 301	04Apr13 0729 by 301		
1,2-Dibromo-3-chloropropane	20.0 ug/Kg	93.6	40.0-135			V8235	01Apr13 0900 by 301	04Apr13 0729 by 301		
Dibromochloromethane	20.0 ug/Kg	102	65.0-130			V8235	01Apr13 0900 by 301	04Apr13 0729 by 301		
1,2-Dibromoethane	20.0 ug/Kg	113	70.0-125			V8235	01Apr13 0900 by 301	04Apr13 0729 by 301		
Dibromomethane	20.0 ug/Kg	111	75.0-130			V8235	01Apr13 0900 by 301	04Apr13 0729 by 301		
1,2-Dichlorobenzene	20.0 ug/Kg	104	75.0-120			V8235	01Apr13 0900 by 301	04Apr13 0729 by 301		



Georgia-Pacific Chemicals, LLC-Chemical
Plant
Post Office Box 520
Highway 82 and Papermill Road
Crossett, AR 71635

LABORATORY CONTROL SAMPLE RESULTS

Analyte	Spike Amount	%	Limits	RPD	Limit	Batch	Preparation Date	Analysis Date	Dil	Qual
Volatile Organic Compounds (Continued)										
1,3-Dichlorobenzene	20.0 ug/Kg	99.3	70.0-125			V8235	01Apr13 0900 by 301	04Apr13 0729 by 301		
1,4-Dichlorobenzene	20.0 ug/Kg	97.4	70.0-125			V8235	01Apr13 0900 by 301	04Apr13 0729 by 301		
Dichlorodifluoromethane	20.0 ug/Kg	104	35.0-135			V8235	01Apr13 0900 by 301	04Apr13 0729 by 301		
1,1-Dichloroethane	20.0 ug/Kg	98.8	75.0-125			V8235	01Apr13 0900 by 301	04Apr13 0729 by 301		
1,2-Dichloroethane	20.0 ug/Kg	112	70.0-135			V8235	01Apr13 0900 by 301	04Apr13 0729 by 301		
1,1-Dichloroethene	20.0 ug/Kg	106	65.0-135			V8235	01Apr13 0900 by 301	04Apr13 0729 by 301		
cis-1,2-Dichloroethene	20.0 ug/Kg	103	65.0-125			V8235	01Apr13 0900 by 301	04Apr13 0729 by 301		
trans-1,2-Dichloroethene	20.0 ug/Kg	105	65.0-135			V8235	01Apr13 0900 by 301	04Apr13 0729 by 301		
1,2-Dichloropropane	20.0 ug/Kg	104	70.0-120			V8235	01Apr13 0900 by 301	04Apr13 0729 by 301		
1,3-Dichloropropane	20.0 ug/Kg	110	75.0-125			V8235	01Apr13 0900 by 301	04Apr13 0729 by 301		
2,2-Dichloropropane	20.0 ug/Kg	82.2	65.0-135			V8235	01Apr13 0900 by 301	04Apr13 0729 by 301		
1,1-Dichloropropene	20.0 ug/Kg	104	70.0-135			V8235	01Apr13 0900 by 301	04Apr13 0729 by 301		
cis-1,3-Dichloropropene	20.0 ug/Kg	93.0	70.0-125			V8235	01Apr13 0900 by 301	04Apr13 0729 by 301		
trans-1,3-Dichloropropene	20.0 ug/Kg	89.6	65.0-125			V8235	01Apr13 0900 by 301	04Apr13 0729 by 301		
Ethylbenzene	20.0 ug/Kg	113	75.0-125			V8235	01Apr13 0900 by 301	04Apr13 0729 by 301		
Hexachlorobutadiene	20.0 ug/Kg	101	55.0-140			V8235	01Apr13 0900 by 301	04Apr13 0729 by 301		
2-Hexanone	40.0 ug/Kg	112	45.0-145			V8235	01Apr13 0900 by 301	04Apr13 0729 by 301		
Isopropylbenzene	20.0 ug/Kg	104	75.0-130			V8235	01Apr13 0900 by 301	04Apr13 0729 by 301		
m&p-Xylenes	40.0 ug/Kg	107	80.0-125			V8235	01Apr13 0900 by 301	04Apr13 0729 by 301		
4-Methyl-2-pentanone	40.0 ug/Kg	113	45.0-145			V8235	01Apr13 0900 by 301	04Apr13 0729 by 301		
Methylene chloride	20.0 ug/Kg	99.0	55.0-140			V8235	01Apr13 0900 by 301	04Apr13 0729 by 301		
n-Butylbenzene	20.0 ug/Kg	93.2	65.0-140			V8235	01Apr13 0900 by 301	04Apr13 0729 by 301		
n-Propylbenzene	20.0 ug/Kg	102	65.0-135			V8235	01Apr13 0900 by 301	04Apr13 0729 by 301		
Naphthalene	20.0 ug/Kg	92.4	40.0-125			V8235	01Apr13 0900 by 301	04Apr13 0729 by 301		
o-Xylene	20.0 ug/Kg	108	75.0-125			V8235	01Apr13 0900 by 301	04Apr13 0729 by 301		
p-Isopropyltoluene	20.0 ug/Kg	94.5	75.0-135			V8235	01Apr13 0900 by 301	04Apr13 0729 by 301		
sec-Butylbenzene	20.0 ug/Kg	102	65.0-130			V8235	01Apr13 0900 by 301	04Apr13 0729 by 301		
Styrene	20.0 ug/Kg	108	75.0-125			V8235	01Apr13 0900 by 301	04Apr13 0729 by 301		
tert-Butylbenzene	20.0 ug/Kg	97.2	65.0-130			V8235	01Apr13 0900 by 301	04Apr13 0729 by 301		
1,1,1,2-Tetrachloroethane	20.0 ug/Kg	102	75.0-125			V8235	01Apr13 0900 by 301	04Apr13 0729 by 301		
1,1,2,2-Tetrachloroethane	20.0 ug/Kg	100	55.0-130			V8235	01Apr13 0900 by 301	04Apr13 0729 by 301		
Tetrachloroethene	20.0 ug/Kg	109	65.0-140			V8235	01Apr13 0900 by 301	04Apr13 0729 by 301		
Toluene	20.0 ug/Kg	107	70.0-125			V8235	01Apr13 0900 by 301	04Apr13 0729 by 301		
1,2,3-Trichlorobenzene	20.0 ug/Kg	92.4	60.0-135			V8235	01Apr13 0900 by 301	04Apr13 0729 by 301		
1,2,4-Trichlorobenzene	20.0 ug/Kg	84.8	65.0-130			V8235	01Apr13 0900 by 301	04Apr13 0729 by 301		
1,1,1-Trichloroethane	20.0 ug/Kg	101	70.0-135			V8235	01Apr13 0900 by 301	04Apr13 0729 by 301		
1,1,2-Trichloroethane	20.0 ug/Kg	115	60.0-125			V8235	01Apr13 0900 by 301	04Apr13 0729 by 301		
Trichloroethene	20.0 ug/Kg	110	75.0-125			V8235	01Apr13 0900 by 301	04Apr13 0729 by 301		



Georgia-Pacific Chemicals, LLC-Chemical Plant
Post Office Box 520
Highway 82 and Papermill Road
Crossett, AR 71635

LABORATORY CONTROL SAMPLE RESULTS

Analyte	Spike Amount	%	Limits	RPD	Limit	Batch	Preparation Date	Analysis Date	Dil	Qual
Volatile Organic Compounds (Continued)										
Trichlorofluoromethane	20.0 ug/Kg	108	25.0-185			V8235	01Apr13 0900 by 301	04Apr13 0729 by 301		
1,2,3-Trichloropropane	20.0 ug/Kg	96.6	65.0-130			V8235	01Apr13 0900 by 301	04Apr13 0729 by 301		
1,2,4-Trimethylbenzene	20.0 ug/Kg	99.0	65.0-135			V8235	01Apr13 0900 by 301	04Apr13 0729 by 301		
1,3,5-Trimethylbenzene	20.0 ug/Kg	101	65.0-135			V8235	01Apr13 0900 by 301	04Apr13 0729 by 301		
Vinyl acetate	40.0 ug/Kg	101	51.6-137			V8235	01Apr13 0900 by 301	04Apr13 0729 by 301		
Vinyl chloride	20.0 ug/Kg	94.3	60.0-125			V8235	01Apr13 0900 by 301	04Apr13 0729 by 301		
Volatile Organic Compounds Surrogates:										
4-Bromofluorobenzene	50.0 ug/Kg	106	85.0-120			V8235	01Apr13 0900 by 301	04Apr13 0729 by 301		
Dibromofluoromethane	50.0 ug/Kg	94.1	82.3-112			V8235	01Apr13 0900 by 301	04Apr13 0729 by 301		
Toluene-D8	50.0 ug/Kg	104	85.0-115			V8235	01Apr13 0900 by 301	04Apr13 0729 by 301		
Organochlorine Pesticides										
Aldrin	4.44 ug/Kg	88.7	45.0-140			G9233	01Apr13 1414 by 306	01Apr13 1722 by 306		
	4.44 ug/Kg	80.8	45.0-140	9.34	30.0	G9233	01Apr13 1414 by 306	01Apr13 1740 by 306		
alpha-BHC	4.44 ug/Kg	88.7	60.0-125			G9233	01Apr13 1414 by 306	01Apr13 1722 by 306		
	4.44 ug/Kg	70.8	60.0-125	22.5	30.0	G9233	01Apr13 1414 by 306	01Apr13 1740 by 306		
alpha-Endosulfan	4.44 ug/Kg	87.5	15.0-135			G9233	01Apr13 1414 by 306	01Apr13 1722 by 306		
	4.44 ug/Kg	79.0	15.0-135	10.2	30.0	G9233	01Apr13 1414 by 306	01Apr13 1740 by 306		
beta-BHC	4.44 ug/Kg	85.5	60.0-125			G9233	01Apr13 1414 by 306	01Apr13 1722 by 306		
	4.44 ug/Kg	77.0	60.0-125	10.5	30.0	G9233	01Apr13 1414 by 306	01Apr13 1740 by 306		
beta-Endosulfan	4.44 ug/Kg	87.2	35.0-140			G9233	01Apr13 1414 by 306	01Apr13 1722 by 306		
	4.44 ug/Kg	77.6	35.0-140	11.7	30.0	G9233	01Apr13 1414 by 306	01Apr13 1740 by 306		
4,4'-DDD	4.44 ug/Kg	86.7	30.0-135			G9233	01Apr13 1414 by 306	01Apr13 1722 by 306		
	4.44 ug/Kg	77.1	30.0-135	11.8	30.0	G9233	01Apr13 1414 by 306	01Apr13 1740 by 306		
4,4'-DDE	4.44 ug/Kg	89.8	70.0-125			G9233	01Apr13 1414 by 306	01Apr13 1722 by 306		
	4.44 ug/Kg	80.4	70.0-125	11.1	30.0	G9233	01Apr13 1414 by 306	01Apr13 1740 by 306		
4,4'-DDT	4.44 ug/Kg	89.9	45.0-140			G9233	01Apr13 1414 by 306	01Apr13 1722 by 306		
	4.44 ug/Kg	80.3	45.0-140	11.3	30.0	G9233	01Apr13 1414 by 306	01Apr13 1740 by 306		
delta-BHC	4.44 ug/Kg	89.7	55.0-130			G9233	01Apr13 1414 by 306	01Apr13 1722 by 306		
	4.44 ug/Kg	80.4	55.0-130	11.0	30.0	G9233	01Apr13 1414 by 306	01Apr13 1740 by 306		
Dieldrin	4.44 ug/Kg	89.3	65.0-125			G9233	01Apr13 1414 by 306	01Apr13 1722 by 306		
	4.44 ug/Kg	80.2	65.0-125	10.8	30.0	G9233	01Apr13 1414 by 306	01Apr13 1740 by 306		
Endosulfan sulfate	4.44 ug/Kg	97.8	60.0-135			G9233	01Apr13 1414 by 306	01Apr13 1722 by 306		
	4.44 ug/Kg	74.5	60.0-135	27.1	30.0	G9233	01Apr13 1414 by 306	01Apr13 1740 by 306		
Endrin	4.44 ug/Kg	87.3	60.0-135			G9233	01Apr13 1414 by 306	01Apr13 1722 by 306		
	4.44 ug/Kg	78.8	60.0-135	10.3	30.0	G9233	01Apr13 1414 by 306	01Apr13 1740 by 306		
Endrin aldehyde	4.44 ug/Kg	91.0	35.0-145			G9233	01Apr13 1414 by 306	01Apr13 1722 by 306		
	4.44 ug/Kg	79.9	35.0-145	13.0	30.0	G9233	01Apr13 1414 by 306	01Apr13 1740 by 306		
gamma-BHC	4.44 ug/Kg	88.5	60.0-125			G9233	01Apr13 1414 by 306	01Apr13 1722 by 306		
	4.44 ug/Kg	80.5	60.0-125	9.49	30.0	G9233	01Apr13 1414 by 306	01Apr13 1740 by 306		
Heptachlor	4.44 ug/Kg	88.6	50.0-140			G9233	01Apr13 1414 by 306	01Apr13 1722 by 306		
	4.44 ug/Kg	78.4	50.0-140	12.2	30.0	G9233	01Apr13 1414 by 306	01Apr13 1740 by 306		
Heptachlor epoxide	4.44 ug/Kg	89.1	65.0-130			G9233	01Apr13 1414 by 306	01Apr13 1722 by 306		
	4.44 ug/Kg	81.0	65.0-130	9.55	30.0	G9233	01Apr13 1414 by 306	01Apr13 1740 by 306		



Georgia-Pacific Chemicals, LLC-Chemical
Plant
Post Office Box 520
Highway 82 and Papermill Road
Crossett, AR 71635

LABORATORY CONTROL SAMPLE RESULTS

Analyte	Spike Amount	%	Limits	RPD	Limit	Batch	Preparation Date	Analysis Date	Dil	Qual
Organochlorine Pesticides (Continued)										
Methoxychlor	4.44 ug/Kg	86.7	55.0-145			G9233	01Apr13 1414 by 306	01Apr13 1722 by 306		
	4.44 ug/Kg	82.4	55.0-145	5.10	30.0	G9233	01Apr13 1414 by 306	01Apr13 1740 by 306		
Organochlorine Pesticides Surrogates:										
Decachlorobiphenyl	8.89 ug/Kg	93.9	55.0-130			G9233	01Apr13 1414 by 306	01Apr13 1722 by 306		
	8.89 ug/Kg	82.1	55.0-130	-	-	G9233	01Apr13 1414 by 306	01Apr13 1740 by 306		
Tetrachloro-m-xylene	8.89 ug/Kg	84.1	70.0-125			G9233	01Apr13 1414 by 306	01Apr13 1722 by 306		
	8.89 ug/Kg	78.1	70.0-125	-	-	G9233	01Apr13 1414 by 306	01Apr13 1740 by 306		
Chlorinated Herbicides										
2,4-D	20.8 ug/Kg	46.2	35.0-145			G9234	02Apr13 1113 by 301	04Apr13 1044 by 306		
	20.8 ug/Kg	47.4	35.0-145	2.58	30.0	G9234	02Apr13 1113 by 301	04Apr13 1100 by 306		
2,4,5-T	20.8 ug/Kg	56.7	45.0-135			G9234	02Apr13 1113 by 301	04Apr13 1044 by 306		
	20.8 ug/Kg	59.2	45.0-135	4.29	30.0	G9234	02Apr13 1113 by 301	04Apr13 1100 by 306		
2,4,5-TP	20.8 ug/Kg	68.7	45.0-125			G9234	02Apr13 1113 by 301	04Apr13 1044 by 306		
	20.8 ug/Kg	71.0	45.0-125	3.23	30.0	G9234	02Apr13 1113 by 301	04Apr13 1100 by 306		
Chlorinated Herbicides Surrogates:										
Dichlorophenylacetic Acid	20.8 ug/Kg	77.4	35.7-132			G9234	02Apr13 1113 by 301	04Apr13 1044 by 306		
	20.8 ug/Kg	81.3	35.7-132	-	-	G9234	02Apr13 1113 by 301	04Apr13 1100 by 306		

Georgia-Pacific Chemicals, LLC-Chemical
Plant
Post Office Box 520
Highway 82 and Papermill Road
Crossett, AR 71635

MATRIX SPIKE SAMPLE RESULTS

Analyte	Sample	Spike Amount	%	Limits	Batch	Preparation Date	Analysis Date	Dil	Qual
Arsenic	166122-1	499 mg/Kg	101	75.0-125	S34321	01Apr13 1318 by 100	01Apr13 1456 by 305		
	166122-1	499 mg/Kg	103	75.0-125	S34321	01Apr13 1318 by 100	01Apr13 1502 by 305		
	Relative Percent Difference:		1.58	20.0	S34321				
Barium	166122-1	49.9 mg/Kg	98.6	75.0-125	S34321	01Apr13 1318 by 100	01Apr13 1456 by 305		
	166122-1	49.9 mg/Kg	108	75.0-125	S34321	01Apr13 1318 by 100	01Apr13 1502 by 305		
	Relative Percent Difference:		1.95	20.0	S34321				
Cadmium	166122-1	499 mg/Kg	89.1	75.0-125	S34321	01Apr13 1318 by 100	01Apr13 1456 by 305		
	166122-1	499 mg/Kg	90.8	75.0-125	S34321	01Apr13 1318 by 100	01Apr13 1502 by 305		
	Relative Percent Difference:		1.94	20.0	S34321				
Chromium	166122-1	49.9 mg/Kg	106	75.0-125	S34321	01Apr13 1318 by 100	01Apr13 1456 by 305		
	166122-1	49.9 mg/Kg	108	75.0-125	S34321	01Apr13 1318 by 100	01Apr13 1502 by 305		
	Relative Percent Difference:		1.75	20.0	S34321				
Lead	166122-1	499 mg/Kg	88.0	75.0-125	S34321	01Apr13 1318 by 100	01Apr13 1456 by 305		
	166122-1	499 mg/Kg	89.7	75.0-125	S34321	01Apr13 1318 by 100	01Apr13 1502 by 305		
	Relative Percent Difference:		1.92	20.0	S34321				
Selenium	166122-1	499 mg/Kg	83.6	75.0-125	S34321	01Apr13 1318 by 100	01Apr13 1456 by 305		
	166122-1	499 mg/Kg	84.8	75.0-125	S34321	01Apr13 1318 by 100	01Apr13 1502 by 305		
	Relative Percent Difference:		1.40	20.0	S34321				
Silver	166122-1	9.98 mg/Kg	92.4	75.0-125	S34321	01Apr13 1318 by 100	01Apr13 1456 by 305		
	166122-1	9.98 mg/Kg	93.5	75.0-125	S34321	01Apr13 1318 by 100	01Apr13 1502 by 305		
	Relative Percent Difference:		1.12	20.0	S34321				
Mercury	166162-1	1.21 mg/Kg	100	70.0-130	S34322	01Apr13 1459 by 271	02Apr13 1201 by 271		
	166162-1	1.22 mg/Kg	94.7	70.0-130	S34322	01Apr13 1459 by 271	02Apr13 1206 by 271		
	Relative Percent Difference:		5.81	20.0	S34322				
Volatile Organic Compounds									
Acetone	166084-1	40 ug/Kg	102	20.0-160	V8235	01Apr13 0900 by 301	04Apr13 0816 by 301		
Benzene	166084-1	20 ug/Kg	104	75.0-125	V8235	01Apr13 0900 by 301	04Apr13 0816 by 301		
Bromobenzene	166084-1	20 ug/Kg	91.6	65.0-120	V8235	01Apr13 0900 by 301	04Apr13 0816 by 301		
Bromochloromethane	166084-1	20 ug/Kg	85.1	70.0-125	V8235	01Apr13 0900 by 301	04Apr13 0816 by 301		
Bromodichloromethane	166084-1	20 ug/Kg	85.0	70.0-130	V8235	01Apr13 0900 by 301	04Apr13 0816 by 301		
Bromoform	166084-1	20 ug/Kg	88.6	55.0-135	V8235	01Apr13 0900 by 301	04Apr13 0816 by 301		
Bromomethane	166084-1	20 ug/Kg	90.2	30.0-160	V8235	01Apr13 0900 by 301	04Apr13 0816 by 301		
2-Butanone	166084-1	40 ug/Kg	93.3	30.0-160	V8235	01Apr13 0900 by 301	04Apr13 0816 by 301		
Carbon disulfide	166084-1	40 ug/Kg	74.1	45.0-160	V8235	01Apr13 0900 by 301	04Apr13 0816 by 301		
Carbon tetrachloride	166084-1	20 ug/Kg	81.0	65.0-135	V8235	01Apr13 0900 by 301	04Apr13 0816 by 301		
Chlorobenzene	166084-1	20 ug/Kg	101	75.0-125	V8235	01Apr13 0900 by 301	04Apr13 0816 by 301		
Chloroethane	166084-1	20 ug/Kg	81.6	40.0-155	V8235	01Apr13 0900 by 301	04Apr13 0816 by 301		
2-Chloroethyl vinyl ether	166084-1	40 ug/Kg	102	47.5-132	V8235	01Apr13 0900 by 301	04Apr13 0816 by 301		
Chloroform	166084-1	20 ug/Kg	90.6	70.0-125	V8235	01Apr13 0900 by 301	04Apr13 0816 by 301		
Chloromethane	166084-1	20 ug/Kg	99.6	50.0-130	V8235	01Apr13 0900 by 301	04Apr13 0816 by 301		
2-Chlorotoluene	166084-1	20 ug/Kg	88.2	70.0-130	V8235	01Apr13 0900 by 301	04Apr13 0816 by 301		
4-Chlorotoluene	166084-1	20 ug/Kg	83.4	75.0-125	V8235	01Apr13 0900 by 301	04Apr13 0816 by 301		
1,2-Dibromo-3-chloropropane	166084-1	20 ug/Kg	96.4	40.0-135	V8235	01Apr13 0900 by 301	04Apr13 0816 by 301		
Dibromochloromethane	166084-1	20 ug/Kg	86.6	65.0-130	V8235	01Apr13 0900 by 301	04Apr13 0816 by 301		



Georgia-Pacific Chemicals, LLC-Chemical Plant
Post Office Box 520
Highway 82 and Papermill Road
Crossett, AR 71635

MATRIX SPIKE SAMPLE RESULTS

Analyte	Sample	Spike Amount	%	Limits	Batch	Preparation Date	Analysis Date	Dil	Qual
Volatile Organic Compounds (Continued)									
1,2-Dibromoethane	166084-1	20 ug/Kg	108	70.0-125	V8235	01Apr13 0900 by 301	04Apr13 0816 by 301		
Dibromomethane	166084-1	20 ug/Kg	96.8	75.0-130	V8235	01Apr13 0900 by 301	04Apr13 0816 by 301		
1,2-Dichlorobenzene	166084-1	20 ug/Kg	104	75.0-120	V8235	01Apr13 0900 by 301	04Apr13 0816 by 301		
1,3-Dichlorobenzene	166084-1	20 ug/Kg	96.3	70.0-125	V8235	01Apr13 0900 by 301	04Apr13 0816 by 301		
1,4-Dichlorobenzene	166084-1	20 ug/Kg	98.8	70.0-125	V8235	01Apr13 0900 by 301	04Apr13 0816 by 301		
Dichlorodifluoromethane	166084-1	20 ug/Kg	103	35.0-135	V8235	01Apr13 0900 by 301	04Apr13 0816 by 301		
1,1-Dichloroethane	166084-1	20 ug/Kg	89.4	75.0-125	V8235	01Apr13 0900 by 301	04Apr13 0816 by 301		
1,2-Dichloroethane	166084-1	20 ug/Kg	102	70.0-135	V8235	01Apr13 0900 by 301	04Apr13 0816 by 301		
1,1-Dichloroethene	166084-1	20 ug/Kg	86.6	65.0-135	V8235	01Apr13 0900 by 301	04Apr13 0816 by 301		
cis-1,2-Dichloroethene	166084-1	20 ug/Kg	93.5	65.0-125	V8235	01Apr13 0900 by 301	04Apr13 0816 by 301		
trans-1,2-Dichloroethene	166084-1	20 ug/Kg	90.0	65.0-135	V8235	01Apr13 0900 by 301	04Apr13 0816 by 301		
1,2-Dichloropropane	166084-1	20 ug/Kg	97.1	70.0-120	V8235	01Apr13 0900 by 301	04Apr13 0816 by 301		
1,3-Dichloropropane	166084-1	20 ug/Kg	110	75.0-125	V8235	01Apr13 0900 by 301	04Apr13 0816 by 301		
2,2-Dichloropropane	166084-1	20 ug/Kg	69.2	65.0-135	V8235	01Apr13 0900 by 301	04Apr13 0816 by 301		
1,1-Dichloropropene	166084-1	20 ug/Kg	96.8	70.0-135	V8235	01Apr13 0900 by 301	04Apr13 0816 by 301		
cis-1,3-Dichloropropene	166084-1	20 ug/Kg	80.6	70.0-125	V8235	01Apr13 0900 by 301	04Apr13 0816 by 301		
trans-1,3-Dichloropropene	166084-1	20 ug/Kg	79.3	65.0-125	V8235	01Apr13 0900 by 301	04Apr13 0816 by 301		
Ethylbenzene	166084-1	20 ug/Kg	117	75.0-125	V8235	01Apr13 0900 by 301	05Apr13 1348 by 301		
Hexachlorobutadiene	166084-1	20 ug/Kg	92.2	55.0-140	V8235	01Apr13 0900 by 301	04Apr13 0816 by 301		
2-Hexanone	166084-1	40 ug/Kg	104	45.0-145	V8235	01Apr13 0900 by 301	04Apr13 0816 by 301		
Isopropylbenzene	166084-1	20 ug/Kg	109	75.0-130	V8235	01Apr13 0900 by 301	04Apr13 0816 by 301		
m&p-Xylenes	166084-1	40 ug/Kg	112	80.0-125	V8235	01Apr13 0900 by 301	05Apr13 1348 by 301		
4-Methyl-2-pentanone	166084-1	40 ug/Kg	123	45.0-145	V8235	01Apr13 0900 by 301	04Apr13 0816 by 301		
Methylene chloride	166084-1	20 ug/Kg	98.1	55.0-140	V8235	01Apr13 0900 by 301	04Apr13 0816 by 301		
n-Butylbenzene	166084-1	20 ug/Kg	80.4	65.0-140	V8235	01Apr13 0900 by 301	04Apr13 0816 by 301		
n-Propylbenzene	166084-1	20 ug/Kg	108	65.0-135	V8235	01Apr13 0900 by 301	04Apr13 0816 by 301		
Naphthalene	166084-1	20 ug/Kg	111	40.0-125	V8235	01Apr13 0900 by 301	05Apr13 1348 by 301		
o-Xylene	166084-1	20 ug/Kg	120	75.0-125	V8235	01Apr13 0900 by 301	05Apr13 1348 by 301		
p-Isopropyltoluene	166084-1	20 ug/Kg	87.4	75.0-135	V8235	01Apr13 0900 by 301	04Apr13 0816 by 301		
sec-Butylbenzene	166084-1	20 ug/Kg	84.4	65.0-130	V8235	01Apr13 0900 by 301	04Apr13 0816 by 301		
Styrene	166084-1	20 ug/Kg	109	75.0-125	V8235	01Apr13 0900 by 301	04Apr13 0816 by 301		
tert-Butylbenzene	166084-1	20 ug/Kg	100	65.0-130	V8235	01Apr13 0900 by 301	04Apr13 0816 by 301		
1,1,1,2-Tetrachloroethane	166084-1	20 ug/Kg	93.6	75.0-125	V8235	01Apr13 0900 by 301	04Apr13 0816 by 301		
1,1,2,2-Tetrachloroethane	166084-1	20 ug/Kg	104	55.0-130	V8235	01Apr13 0900 by 301	04Apr13 0816 by 301		
Tetrachloroethene	166084-1	20 ug/Kg	110	65.0-140	V8235	01Apr13 0900 by 301	04Apr13 0816 by 301		
Toluene	166084-1	20 ug/Kg	118	70.0-125	V8235	01Apr13 0900 by 301	05Apr13 1348 by 301		
1,2,3-Trichlorobenzene	166084-1	20 ug/Kg	129	60.0-135	V8235	01Apr13 0900 by 301	04Apr13 0816 by 301		
1,2,4-Trichlorobenzene	166084-1	20 ug/Kg	112	65.0-130	V8235	01Apr13 0900 by 301	04Apr13 0816 by 301		



Georgia-Pacific Chemicals, LLC-Chemical
 Plant
 Post Office Box 520
 Highway 82 and Papermill Road
 Crossett, AR 71635

MATRIX SPIKE SAMPLE RESULTS

Analyte	Sample	Spike Amount	%	Limits	Batch	Preparation Date	Analysis Date	Dil	Qual
Volatile Organic Compounds (Continued)									
1,1,1-Trichloroethane	166084-1	20 ug/Kg	87.1	70.0-135	V8235	01Apr13 0900 by 301	04Apr13 0816 by 301		
1,1,2-Trichloroethane	166084-1	20 ug/Kg	110	60.0-125	V8235	01Apr13 0900 by 301	04Apr13 0816 by 301		
Trichloroethene	166084-1	20 ug/Kg	102	75.0-125	V8235	01Apr13 0900 by 301	04Apr13 0816 by 301		
Trichlorofluoromethane	166084-1	20 ug/Kg	80.4	25.0-185	V8235	01Apr13 0900 by 301	04Apr13 0816 by 301		
1,2,3-Trichloropropane	166084-1	20 ug/Kg	99.8	65.0-130	V8235	01Apr13 0900 by 301	04Apr13 0816 by 301		
1,2,4-Trimethylbenzene	166084-1	20 ug/Kg	101	65.0-135	V8235	01Apr13 0900 by 301	05Apr13 1348 by 301		
1,3,5-Trimethylbenzene	166084-1	20 ug/Kg	98.3	65.0-135	V8235	01Apr13 0900 by 301	04Apr13 0816 by 301		
Vinyl acetate	166084-1	40 ug/Kg	82.6	0.100-149	V8235	01Apr13 0900 by 301	04Apr13 0816 by 301		
Vinyl chloride	166084-1	20 ug/Kg	92.2	60.0-125	V8235	01Apr13 0900 by 301	04Apr13 0816 by 301		
Volatile Organic Compounds Surrogates:									
4-Bromofluorobenzene	166084-1	50 ug/Kg	110	85.0-120	V8235	01Apr13 0900 by 301	04Apr13 0816 by 301		
Dibromofluoromethane	166084-1	50 ug/Kg	86.9	83.4-114	V8235	01Apr13 0900 by 301	04Apr13 0816 by 301		
Toluene-D8	166084-1	50 ug/Kg	107	85.0-115	V8235	01Apr13 0900 by 301	04Apr13 0816 by 301		

Georgia-Pacific Chemicals, LLC-Chemical
Plant
Post Office Box 520
Highway 82 and Papermill Road
Crossett, AR 71635

LABORATORY BLANK RESULTS

Analyte	Result	RL	PQL	QC		Qual
				Sample	Preparation Date	
Arsenic	< 5 mg/Kg	5	5	S34321-1	01Apr13 1318 by 100	01Apr13 1447 by 305
Barium	< 0.2 mg/Kg	0.2	0.2	S34321-1	01Apr13 1318 by 100	01Apr13 1447 by 305
Cadmium	< 0.4 mg/Kg	0.4	0.4	S34321-1	01Apr13 1318 by 100	01Apr13 1447 by 305
Chromium	< 0.7 mg/Kg	0.7	0.7	S34321-1	01Apr13 1318 by 100	01Apr13 1447 by 305
Lead	< 4 mg/Kg	4	4	S34321-1	01Apr13 1318 by 100	01Apr13 1447 by 305
Selenium	< 7 mg/Kg	7	7	S34321-1	01Apr13 1318 by 100	01Apr13 1447 by 305
Silver	< 0.7 mg/Kg	0.7	0.7	S34321-1	01Apr13 1318 by 100	01Apr13 1447 by 305
Mercury	< 0.1 mg/Kg	0.1	0.1	S34322-1	01Apr13 1459 by 271	02Apr13 1150 by 271
Base/Neutral and Acid Compounds						
3 & 4-Methylphenol	< 130 ug/Kg	130	330	B8257-1	01Apr13 1347 by 306	01Apr13 1705 by 301
Acenaphthene	< 120 ug/Kg	120	330	B8257-1	01Apr13 1347 by 306	01Apr13 1705 by 301
Acenaphthylene	< 120 ug/Kg	120	330	B8257-1	01Apr13 1347 by 306	01Apr13 1705 by 301
Anthracene	< 81 ug/Kg	81	330	B8257-1	01Apr13 1347 by 306	01Apr13 1705 by 301
Benzo(a)anthracene	< 94 ug/Kg	94	330	B8257-1	01Apr13 1347 by 306	01Apr13 1705 by 301
Benzo(a)pyrene	< 89 ug/Kg	89	330	B8257-1	01Apr13 1347 by 306	01Apr13 1705 by 301
Benzo(b)fluoranthene	< 120 ug/Kg	120	330	B8257-1	01Apr13 1347 by 306	01Apr13 1705 by 301
Benzo(g,h,i)perylene	< 160 ug/Kg	160	330	B8257-1	01Apr13 1347 by 306	01Apr13 1705 by 301
Benzo(k)fluoranthene	< 120 ug/Kg	120	330	B8257-1	01Apr13 1347 by 306	01Apr13 1705 by 301
Benzoic acid	< 1700 ug/Kg	1700	1700	B8257-1	01Apr13 1347 by 306	01Apr13 1705 by 301
Benzyl alcohol	< 130 ug/Kg	130	330	B8257-1	01Apr13 1347 by 306	01Apr13 1705 by 301
bis(2-Chloroethoxy)Methane	< 120 ug/Kg	120	330	B8257-1	01Apr13 1347 by 306	01Apr13 1705 by 301
bis(2-Chloroethyl)Ether	< 150 ug/Kg	150	330	B8257-1	01Apr13 1347 by 306	01Apr13 1705 by 301
bis(2-Chloroisopropyl)Ether	< 130 ug/Kg	130	330	B8257-1	01Apr13 1347 by 306	01Apr13 1705 by 301
bis(2-Ethylhexyl)Phthalate	< 330 ug/Kg	330	330	B8257-1	01Apr13 1347 by 306	01Apr13 1705 by 301
4-Bromophenyl phenyl ether	< 97 ug/Kg	97	330	B8257-1	01Apr13 1347 by 306	01Apr13 1705 by 301
Butyl benzyl phthalate	< 330 ug/Kg	330	330	B8257-1	01Apr13 1347 by 306	01Apr13 1705 by 301
4-Chloro-3-methylphenol	< 90 ug/Kg	90	330	B8257-1	01Apr13 1347 by 306	01Apr13 1705 by 301
4-Chloroaniline	< 87 ug/Kg	87	330	B8257-1	01Apr13 1347 by 306	01Apr13 1705 by 301
2-Chloronaphthalene	< 120 ug/Kg	120	330	B8257-1	01Apr13 1347 by 306	01Apr13 1705 by 301
2-Chlorophenol	< 140 ug/Kg	140	330	B8257-1	01Apr13 1347 by 306	01Apr13 1705 by 301
4-Chlorophenyl phenyl ether	< 95 ug/Kg	95	330	B8257-1	01Apr13 1347 by 306	01Apr13 1705 by 301
Chrysene	< 82 ug/Kg	82	330	B8257-1	01Apr13 1347 by 306	01Apr13 1705 by 301
Di-n-butyl phthalate	< 330 ug/Kg	330	330	B8257-1	01Apr13 1347 by 306	01Apr13 1705 by 301
Di-n-octyl phthalate	< 330 ug/Kg	330	330	B8257-1	01Apr13 1347 by 306	01Apr13 1705 by 301
Dibenz(a,h)anthracene	< 110 ug/Kg	110	330	B8257-1	01Apr13 1347 by 306	01Apr13 1705 by 301
Dibenzofuran	< 110 ug/Kg	110	330	B8257-1	01Apr13 1347 by 306	01Apr13 1705 by 301
1,2-Dichlorobenzene	< 130 ug/Kg	130	330	B8257-1	01Apr13 1347 by 306	01Apr13 1705 by 301
1,3-Dichlorobenzene	< 130 ug/Kg	130	330	B8257-1	01Apr13 1347 by 306	01Apr13 1705 by 301
1,4-Dichlorobenzene	< 120 ug/Kg	120	330	B8257-1	01Apr13 1347 by 306	01Apr13 1705 by 301
3,3'-Dichlorobenzidine	< 330 ug/Kg	330	330	B8257-1	01Apr13 1347 by 306	01Apr13 1705 by 301
2,4-Dichlorophenol	< 130 ug/Kg	130	330	B8257-1	01Apr13 1347 by 306	01Apr13 1705 by 301
Diethyl phthalate	< 330 ug/Kg	330	330	B8257-1	01Apr13 1347 by 306	01Apr13 1705 by 301
Dimethyl phthalate	< 330 ug/Kg	330	330	B8257-1	01Apr13 1347 by 306	01Apr13 1705 by 301
2,4-Dimethylphenol	< 97 ug/Kg	97	330	B8257-1	01Apr13 1347 by 306	01Apr13 1705 by 301
4,6-Dinitro-2-methylphenol	< 160 ug/Kg	160	330	B8257-1	01Apr13 1347 by 306	01Apr13 1705 by 301
2,4-Dinitrophenol	< 210 ug/Kg	210	330	B8257-1	01Apr13 1347 by 306	01Apr13 1705 by 301
2,4-Dinitrotoluene	< 130 ug/Kg	130	330	B8257-1	01Apr13 1347 by 306	01Apr13 1705 by 301
2,6-Dinitrotoluene	< 81 ug/Kg	81	330	B8257-1	01Apr13 1347 by 306	01Apr13 1705 by 301



Georgia-Pacific Chemicals, LLC-Chemical
Plant
Post Office Box 520
Highway 82 and Papermill Road
Crossett, AR 71635

LABORATORY BLANK RESULTS

Analyte	Result	RL	PQL	QC Sample	Preparation Date	Analysis Date	Qual
Base/Neutral and Acid Compounds							
Fluoranthene	< 82 ug/Kg	82	330	B8257-1	01Apr13 1347 by 306	01Apr13 1705 by 301	
Fluorene	< 94 ug/Kg	94	330	B8257-1	01Apr13 1347 by 306	01Apr13 1705 by 301	
Hexachlorobenzene	< 110 ug/Kg	110	330	B8257-1	01Apr13 1347 by 306	01Apr13 1705 by 301	
Hexachlorobutadiene	< 130 ug/Kg	130	330	B8257-1	01Apr13 1347 by 306	01Apr13 1705 by 301	
Hexachlorocyclopentadiene	< 140 ug/Kg	140	330	B8257-1	01Apr13 1347 by 306	01Apr13 1705 by 301	
Hexachloroethane	< 130 ug/Kg	130	330	B8257-1	01Apr13 1347 by 306	01Apr13 1705 by 301	
Indeno(1,2,3-cd)pyrene	< 140 ug/Kg	140	330	B8257-1	01Apr13 1347 by 306	01Apr13 1705 by 301	
Isophorone	< 130 ug/Kg	130	330	B8257-1	01Apr13 1347 by 306	01Apr13 1705 by 301	
2-Methylnaphthalene	< 130 ug/Kg	130	330	B8257-1	01Apr13 1347 by 306	01Apr13 1705 by 301	
2-Methylphenol	< 130 ug/Kg	130	330	B8257-1	01Apr13 1347 by 306	01Apr13 1705 by 301	
N-Nitroso-di-n-propylamine	< 130 ug/Kg	130	330	B8257-1	01Apr13 1347 by 306	01Apr13 1705 by 301	
n-Nitrosodiphenylamine	< 86 ug/Kg	86	330	B8257-1	01Apr13 1347 by 306	01Apr13 1705 by 301	R
Naphthalene	< 140 ug/Kg	140	330	B8257-1	01Apr13 1347 by 306	01Apr13 1705 by 301	
2-Nitroaniline	< 88 ug/Kg	88	330	B8257-1	01Apr13 1347 by 306	01Apr13 1705 by 301	
3-Nitroaniline	< 96 ug/Kg	96	330	B8257-1	01Apr13 1347 by 306	01Apr13 1705 by 301	
4-Nitroaniline	< 96 ug/Kg	96	330	B8257-1	01Apr13 1347 by 306	01Apr13 1705 by 301	
Nitrobenzene	< 120 ug/Kg	120	330	B8257-1	01Apr13 1347 by 306	01Apr13 1705 by 301	
2-Nitrophenol	< 130 ug/Kg	130	330	B8257-1	01Apr13 1347 by 306	01Apr13 1705 by 301	
4-Nitrophenol	< 170 ug/Kg	170	330	B8257-1	01Apr13 1347 by 306	01Apr13 1705 by 301	
Pentachlorophenol	< 140 ug/Kg	140	330	B8257-1	01Apr13 1347 by 306	01Apr13 1705 by 301	
Phenanthrene	< 120 ug/Kg	120	330	B8257-1	01Apr13 1347 by 306	01Apr13 1705 by 301	
Phenol	< 120 ug/Kg	120	330	B8257-1	01Apr13 1347 by 306	01Apr13 1705 by 301	
Pyrene	< 110 ug/Kg	110	330	B8257-1	01Apr13 1347 by 306	01Apr13 1705 by 301	
1,2,4-Trichlorobenzene	< 130 ug/Kg	130	330	B8257-1	01Apr13 1347 by 306	01Apr13 1705 by 301	
2,4,5-Trichlorophenol	< 98 ug/Kg	98	330	B8257-1	01Apr13 1347 by 306	01Apr13 1705 by 301	
2,4,6-Trichlorophenol	< 110 ug/Kg	110	330	B8257-1	01Apr13 1347 by 306	01Apr13 1705 by 301	
Base/Neutral and Acid Compounds Surrogates:							
2-Fluorobiphenyl (45.0-105%)	65.8 %			B8257-1	01Apr13 1347 by 306	01Apr13 1705 by 301	
2-Fluorophenol (35.0-105%)	66.0 %			B8257-1	01Apr13 1347 by 306	01Apr13 1705 by 301	
Nitrobenzene-D5 (35.0-100%)	69.5 %			B8257-1	01Apr13 1347 by 306	01Apr13 1705 by 301	
Terphenyl-D14 (30.0-125%)	65.8 %			B8257-1	01Apr13 1347 by 306	01Apr13 1705 by 301	
2,4,6-Tribromophenol (35.0-125%)	66.5 %			B8257-1	01Apr13 1347 by 306	01Apr13 1705 by 301	
Volatile Organic Compounds							
Acetone	< 4.0 ug/Kg	4.0	10	V8235-1	01Apr13 0900 by 301	04Apr13 0957 by 301	
Benzene	< 0.50 ug/Kg	0.50	5.0	V8235-1	01Apr13 0900 by 301	04Apr13 0957 by 301	
Bromobenzene	< 1.0 ug/Kg	1.0	5.0	V8235-1	01Apr13 0900 by 301	04Apr13 0957 by 301	
Bromochloromethane	< 1.0 ug/Kg	1.0	5.0	V8235-1	01Apr13 0900 by 301	04Apr13 0957 by 301	
Bromodichloromethane	< 0.50 ug/Kg	0.50	5.0	V8235-1	01Apr13 0900 by 301	04Apr13 0957 by 301	
Bromoform	< 0.50 ug/Kg	0.50	5.0	V8235-1	01Apr13 0900 by 301	04Apr13 0957 by 301	
Bromomethane	< 0.50 ug/Kg	0.50	5.0	V8235-1	01Apr13 0900 by 301	04Apr13 0957 by 301	
2-Butanone	< 1.0 ug/Kg	1.0	10	V8235-1	01Apr13 0900 by 301	04Apr13 0957 by 301	
Carbon disulfide	< 1.0 ug/Kg	1.0	10	V8235-1	01Apr13 0900 by 301	04Apr13 0957 by 301	
Carbon Tetrachloride	< 2.0 ug/Kg	2.0	5.0	V8235-1	01Apr13 0900 by 301	04Apr13 0957 by 301	
Chlorobenzene	< 0.50 ug/Kg	0.50	5.0	V8235-1	01Apr13 0900 by 301	04Apr13 0957 by 301	
Chloroethane	< 0.50 ug/Kg	0.50	5.0	V8235-1	01Apr13 0900 by 301	04Apr13 0957 by 301	
2-Chloroethyl vinyl ether	< 1.0 ug/Kg	1.0	10	V8235-1	01Apr13 0900 by 301	04Apr13 0957 by 301	
Chloroform	< 0.50 ug/Kg	0.50	5.0	V8235-1	01Apr13 0900 by 301	04Apr13 0957 by 301	

Georgia-Pacific Chemicals, LLC-Chemical
Plant
Post Office Box 520
Highway 82 and Papermill Road
Crossett, AR 71635

LABORATORY BLANK RESULTS

Analyte	Result	RL	PQL	QC Sample	Preparation Date	Analysis Date	Qual
Volatile Organic Compounds							
Chloromethane	< 0.50 ug/Kg	0.50	5.0	V8235-1	01Apr13 0900 by 301	04Apr13 0957 by 301	
2-Chlorotoluene	< 1.0 ug/Kg	1.0	5.0	V8235-1	01Apr13 0900 by 301	04Apr13 0957 by 301	
4-Chlorotoluene	< 1.0 ug/Kg	1.0	5.0	V8235-1	01Apr13 0900 by 301	04Apr13 0957 by 301	
1,2-Dibromo-3-chloropropane	< 2.0 ug/Kg	2.0	5.0	V8235-1	01Apr13 0900 by 301	04Apr13 0957 by 301	
Dibromochloromethane	< 0.50 ug/Kg	0.50	5.0	V8235-1	01Apr13 0900 by 301	04Apr13 0957 by 301	
1,2-Dibromoethane	< 1.0 ug/Kg	1.0	5.0	V8235-1	01Apr13 0900 by 301	04Apr13 0957 by 301	
Dibromomethane	< 0.50 ug/Kg	0.50	5.0	V8235-1	01Apr13 0900 by 301	04Apr13 0957 by 301	
1,2-Dichlorobenzene	< 1.0 ug/Kg	1.0	5.0	V8235-1	01Apr13 0900 by 301	04Apr13 0957 by 301	
1,3-Dichlorobenzene	< 1.0 ug/Kg	1.0	5.0	V8235-1	01Apr13 0900 by 301	04Apr13 0957 by 301	
1,4-Dichlorobenzene	< 1.0 ug/Kg	1.0	5.0	V8235-1	01Apr13 0900 by 301	04Apr13 0957 by 301	
Dichlorodifluoromethane	< 0.50 ug/Kg	0.50	5.0	V8235-1	01Apr13 0900 by 301	04Apr13 0957 by 301	
1,1-Dichloroethane	< 0.50 ug/Kg	0.50	5.0	V8235-1	01Apr13 0900 by 301	04Apr13 0957 by 301	
1,2-Dichloroethane	< 0.50 ug/Kg	0.50	5.0	V8235-1	01Apr13 0900 by 301	04Apr13 0957 by 301	
1,1-Dichloroethene	< 0.50 ug/Kg	0.50	5.0	V8235-1	01Apr13 0900 by 301	04Apr13 0957 by 301	
cis-1,2-Dichloroethene	< 0.50 ug/Kg	0.50	5.0	V8235-1	01Apr13 0900 by 301	04Apr13 0957 by 301	
trans-1,2-Dichloroethene	< 0.50 ug/Kg	0.50	5.0	V8235-1	01Apr13 0900 by 301	04Apr13 0957 by 301	
1,2-Dichloropropane	< 0.50 ug/Kg	0.50	5.0	V8235-1	01Apr13 0900 by 301	04Apr13 0957 by 301	
1,3-Dichloropropane	< 0.50 ug/Kg	0.50	5.0	V8235-1	01Apr13 0900 by 301	04Apr13 0957 by 301	
2,2-Dichloropropane	< 0.50 ug/Kg	0.50	5.0	V8235-1	01Apr13 0900 by 301	04Apr13 0957 by 301	
1,1-Dichloropropene	< 0.50 ug/Kg	0.50	5.0	V8235-1	01Apr13 0900 by 301	04Apr13 0957 by 301	
cis-1,3-Dichloropropene	< 0.50 ug/Kg	0.50	5.0	V8235-1	01Apr13 0900 by 301	04Apr13 0957 by 301	
trans-1,3-Dichloropropene	< 0.50 ug/Kg	0.50	5.0	V8235-1	01Apr13 0900 by 301	04Apr13 0957 by 301	
Ethylbenzene	< 0.50 ug/Kg	0.50	5.0	V8235-1	01Apr13 0900 by 301	04Apr13 0957 by 301	
Hexachlorobutadiene	< 1.0 ug/Kg	1.0	5.0	V8235-1	01Apr13 0900 by 301	04Apr13 0957 by 301	
2-Hexanone	< 2.0 ug/Kg	2.0	10	V8235-1	01Apr13 0900 by 301	04Apr13 0957 by 301	
Isopropylbenzene	< 1.0 ug/Kg	1.0	5.0	V8235-1	01Apr13 0900 by 301	04Apr13 0957 by 301	
m&p-Xylenes	< 1.0 ug/Kg	1.0	10	V8235-1	01Apr13 0900 by 301	04Apr13 0957 by 301	
4-Methyl-2-pentanone	< 1.0 ug/Kg	1.0	10	V8235-1	01Apr13 0900 by 301	04Apr13 0957 by 301	
Methylene chloride	< 1.0 ug/Kg	1.0	5.0	V8235-1	01Apr13 0900 by 301	04Apr13 0957 by 301	
n-Butylbenzene	< 1.0 ug/Kg	1.0	5.0	V8235-1	01Apr13 0900 by 301	04Apr13 0957 by 301	
n-Propylbenzene	< 1.0 ug/Kg	1.0	5.0	V8235-1	01Apr13 0900 by 301	04Apr13 0957 by 301	
Naphthalene	< 1.0 ug/Kg	1.0	5.0	V8235-1	01Apr13 0900 by 301	04Apr13 0957 by 301	
o-Xylene	< 0.50 ug/Kg	0.50	5.0	V8235-1	01Apr13 0900 by 301	04Apr13 0957 by 301	
p-Isopropyltoluene	< 1.0 ug/Kg	1.0	5.0	V8235-1	01Apr13 0900 by 301	04Apr13 0957 by 301	
sec-Butylbenzene	< 1.0 ug/Kg	1.0	5.0	V8235-1	01Apr13 0900 by 301	04Apr13 0957 by 301	
Styrene	< 0.50 ug/Kg	0.50	5.0	V8235-1	01Apr13 0900 by 301	04Apr13 0957 by 301	
tert-Butylbenzene	< 1.0 ug/Kg	1.0	5.0	V8235-1	01Apr13 0900 by 301	04Apr13 0957 by 301	
1,1,1,2-Tetrachloroethane	< 1.0 ug/Kg	1.0	5.0	V8235-1	01Apr13 0900 by 301	04Apr13 0957 by 301	
1,1,2,2-Tetrachloroethane	< 0.50 ug/Kg	0.50	5.0	V8235-1	01Apr13 0900 by 301	04Apr13 0957 by 301	
Tetrachloroethene	< 0.50 ug/Kg	0.50	5.0	V8235-1	01Apr13 0900 by 301	04Apr13 0957 by 301	
Toluene	< 0.50 ug/Kg	0.50	5.0	V8235-1	01Apr13 0900 by 301	04Apr13 0957 by 301	
1,2,3-Trichlorobenzene	< 1.0 ug/Kg	1.0	5.0	V8235-1	01Apr13 0900 by 301	04Apr13 0957 by 301	
1,2,4-Trichlorobenzene	< 1.0 ug/Kg	1.0	5.0	V8235-1	01Apr13 0900 by 301	04Apr13 0957 by 301	
1,1,1-Trichloroethane	< 0.50 ug/Kg	0.50	5.0	V8235-1	01Apr13 0900 by 301	04Apr13 0957 by 301	
1,1,2-Trichloroethane	< 0.50 ug/Kg	0.50	5.0	V8235-1	01Apr13 0900 by 301	04Apr13 0957 by 301	
Trichloroethene	< 0.50 ug/Kg	0.50	5.0	V8235-1	01Apr13 0900 by 301	04Apr13 0957 by 301	
Trichlorofluoromethane	< 0.50 ug/Kg	0.50	5.0	V8235-1	01Apr13 0900 by 301	04Apr13 0957 by 301	



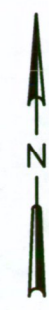
Georgia-Pacific Chemicals, LLC-Chemical
Plant
Post Office Box 520
Highway 82 and Papermill Road
Crossett, AR 71635

LABORATORY BLANK RESULTS

Analyte	Result	RL	PQL	QC Sample	Preparation Date	Analysis Date	Qual
Volatile Organic Compounds							
1,2,3-Trichloropropane	< 0.50 ug/Kg	0.50	5.0	V8235-1	01Apr13 0900 by 301	04Apr13 0957 by 301	
1,2,4-Trimethylbenzene	< 1.0 ug/Kg	1.0	5.0	V8235-1	01Apr13 0900 by 301	04Apr13 0957 by 301	
1,3,5-Trimethylbenzene	< 1.0 ug/Kg	1.0	5.0	V8235-1	01Apr13 0900 by 301	04Apr13 0957 by 301	
Vinyl acetate	< 1.0 ug/Kg	1.0	10	V8235-1	01Apr13 0900 by 301	04Apr13 0957 by 301	
Vinyl chloride	< 0.50 ug/Kg	0.50	5.0	V8235-1	01Apr13 0900 by 301	04Apr13 0957 by 301	
Volatile Organic Compounds Surrogates:							
4-Bromofluorobenzene (85.0-120%)	94.8 %			V8235-1	01Apr13 0900 by 301	04Apr13 0957 by 301	
Dibromofluoromethane (82.3-112%)	95.6 %			V8235-1	01Apr13 0900 by 301	04Apr13 0957 by 301	
Toluene-D8 (85.0-115%)	93.0 %			V8235-1	01Apr13 0900 by 301	04Apr13 0957 by 301	
Organochlorine Pesticides							
Aldrin	< 0.33 ug/Kg	0.33	0.67	G9233-1	01Apr13 1414 by 306	01Apr13 1705 by 306	
alpha-BHC	< 0.33 ug/Kg	0.33	1.4	G9233-1	01Apr13 1414 by 306	01Apr13 1705 by 306	
alpha-Endosulfan	< 0.33 ug/Kg	0.33	0.67	G9233-1	01Apr13 1414 by 306	01Apr13 1705 by 306	
beta-BHC	< 0.33 ug/Kg	0.33	1.4	G9233-1	01Apr13 1414 by 306	01Apr13 1705 by 306	
beta-Endosulfan	< 0.33 ug/Kg	0.33	1.4	G9233-1	01Apr13 1414 by 306	01Apr13 1705 by 306	
Chlordane	< 6.7 ug/Kg	6.7	6.7	G9233-1	01Apr13 1414 by 306	01Apr13 1705 by 306	
4,4'-DDD	< 0.33 ug/Kg	0.33	1.4	G9233-1	01Apr13 1414 by 306	01Apr13 1705 by 306	
4,4'-DDE	< 0.33 ug/Kg	0.33	1.4	G9233-1	01Apr13 1414 by 306	01Apr13 1705 by 306	
4,4'-DDT	< 0.33 ug/Kg	0.33	1.4	G9233-1	01Apr13 1414 by 306	01Apr13 1705 by 306	
delta-BHC	< 0.33 ug/Kg	0.33	1.4	G9233-1	01Apr13 1414 by 306	01Apr13 1705 by 306	
Dieldrin	< 0.33 ug/Kg	0.33	1.4	G9233-1	01Apr13 1414 by 306	01Apr13 1705 by 306	
Endosulfan sulfate	< 0.33 ug/Kg	0.33	1.4	G9233-1	01Apr13 1414 by 306	01Apr13 1705 by 306	
Endrin	< 0.33 ug/Kg	0.33	1.4	G9233-1	01Apr13 1414 by 306	01Apr13 1705 by 306	
Endrin aldehyde	< 0.33 ug/Kg	0.33	1.4	G9233-1	01Apr13 1414 by 306	01Apr13 1705 by 306	
gamma-BHC	< 0.33 ug/Kg	0.33	1.4	G9233-1	01Apr13 1414 by 306	01Apr13 1705 by 306	
Heptachlor	< 0.33 ug/Kg	0.33	0.67	G9233-1	01Apr13 1414 by 306	01Apr13 1705 by 306	
Heptachlor epoxide	< 0.33 ug/Kg	0.33	0.67	G9233-1	01Apr13 1414 by 306	01Apr13 1705 by 306	
Methoxychlor	< 0.33 ug/Kg	0.33	1.4	G9233-1	01Apr13 1414 by 306	01Apr13 1705 by 306	
Toxaphene	< 14 ug/Kg	14	14	G9233-1	01Apr13 1414 by 306	01Apr13 1705 by 306	
Organochlorine Pesticides Surrogates:							
Decachlorobiphenyl (55.0-130%)	87.1 %			G9233-1	01Apr13 1414 by 306	01Apr13 1705 by 306	
Tetrachloro-m-xylene (70.0-125%)	72.1 %			G9233-1	01Apr13 1414 by 306	01Apr13 1705 by 306	
Chlorinated Herbicides							
2,4-D	< 2.1 ug/Kg	2.1	2.1	G9234-1	02Apr13 1113 by 301	04Apr13 1027 by 306	
2,4,5-T	< 2.1 ug/Kg	2.1	2.1	G9234-1	02Apr13 1113 by 301	04Apr13 1027 by 306	
2,4,5-TP	< 2.1 ug/Kg	2.1	2.1	G9234-1	02Apr13 1113 by 301	04Apr13 1027 by 306	
Chlorinated Herbicides Surrogates:							
Dichlorophenylacetic Acid (35.7-132%)	86.0 %			G9234-1	02Apr13 1113 by 301	04Apr13 1027 by 306	

APPENDIX E

Closure Plan Drawings



**WASTEWATER CONTAINMENT POND
CLOSURE PLAN**
GEORGIA PACIFIC CHEMICALS, LLC
CROSSETT, AR

EXCAVATION PLAN

NOTES:

- 1) EXCAVATE ALL SEDIMENTS AND STAINED SOILS WITHIN THE ESTABLISHED "LIMITS OF EXCAVATION".
- 2) EXCAVATION ACTIVITIES TO BE DIRECTED BY GP PROJECT MANAGER.
- 3) CONFIRMATION SAMPLES MUST BE COLLECTED BY CERTIFYING ENGINEER OR REPRESENTATIVE.
- 4) EXPECTED EXCAVATION QUANTITIES – APPROXIMATELY 3500 CUBIC YARDS.
- 5) EXCAVATED MATERIALS TO BE DE-WATERED PRIOR TO TRANSPORT.

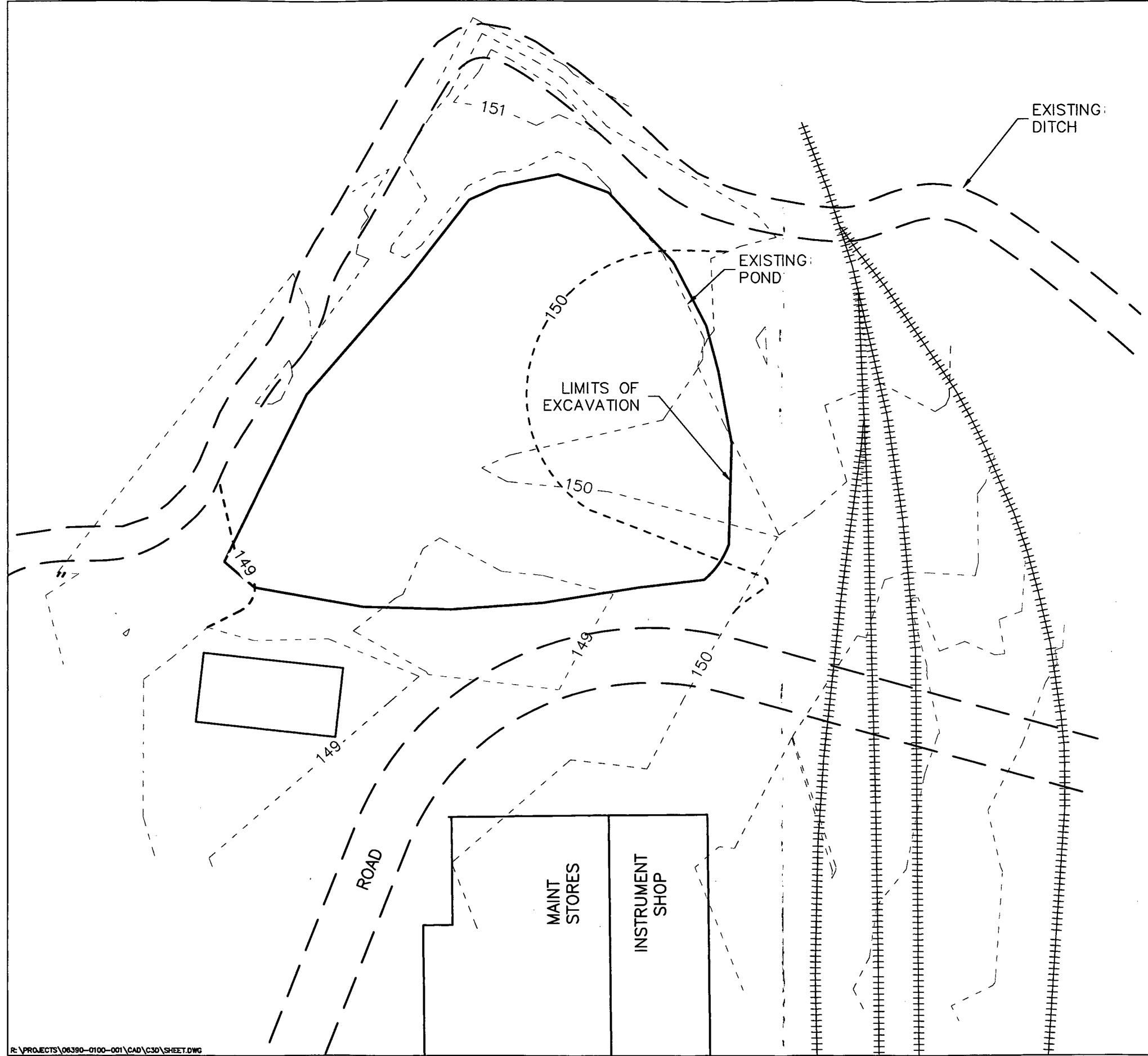
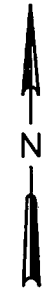
DRAWN BY: DCH	FILE NAME: EXCAVATION.DWG
APPROVED: RMR	PROJECT NO. 08390-0100-001
SCALE: NTS	DATE: 2/21/13
SHEET NO. 1	



**WASTEWATER CONTAINMENT POND
CLOSURE PLAN**
GEORGIA PACIFIC CHEMICALS, LLC
CROSSETT, AR

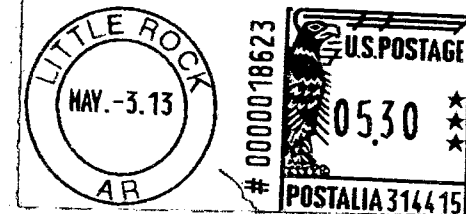
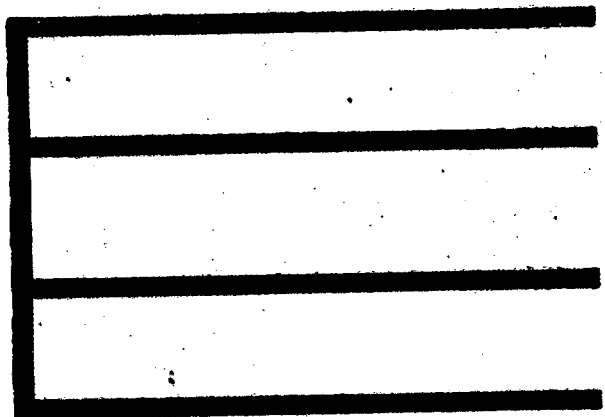
FINAL GRADING PLAN

DRAWN BY:	FILE NAME:
DCH	SHEET.DWG
APPROVED:	PROJECT NO.
RMR	08390-0100-001
SCALE:	DATE:
NTS	2/21/13
SHEET NO.	
2	



NOTES:

- 1) CERTIFYING ENGINEER MUST ISSUE A CONFIRMATION OF SAMPLE RESULTS PRIOR TO BACKFILLING.
- 2) EXPECTED FILL MATERIAL - APPROXIMATELY 6500 CUBIC YARDS AT 1.35 COMPACTION FACTOR.
- 3) FILL MATERIAL TO BE COMPACTED TO 90% MODIFIED PROCTOR DENSITY OR AS DIRECTED BY GEORGIA PACIFIC PROJECT MANAGER.



3 Innwood Circle, Suite 220
Little Rock, AR 72211-2492

water resources / environmental consultants

Mr. John Bailey
Water Division-Permits Branch Manager
Arkansas Department of Environmental Quality
NPDES Enforcement Division
5301 Northshore Drive
North Little Rock, AR 72118-5317