



Georgia-Pacific Corporation
ATTN: Ms. Rachel Johnson
Post Office Box 3333
Crossett, AR 71635

Dear Ms. Rachel Johnson:

Project Description: Four (4) water samples received on November 25, 2009
P.O. No. 783315

This report is the analytical results and supporting information for the sample submitted to American Interplex Corporation (AIC) on November 25, 2009. The following results are applicable only to the sample identified by the control number referenced above. Accurate assessment of the data requires access to the entire document. Each section of the report has been reviewed and approved by the laboratory director or a qualified designee.

Data has been validated using standard quality control measures performed on at least 10% of the samples analyzed. Quality Assurance, instrumentation, maintenance and calibration were performed in accordance with guidelines established by the cited methodology.

AMERICAN INTERPLEX CORPORATION

By _____

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

John Overbey
Laboratory Director

Enclosure(s): Chain of Custody



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CASE NARRATIVE

SAMPLE RECEIPT

Received Temperature: 2°C

Receipt Verification:	Complete Chain of Custody	Y
	Sample ID on Sample Labels	Y
	Date and Time on Sample Labels	Y
	Proper Sample Containers	Y
	Within Holding Times	Y
	Adequate Sample Volume	Y
	Sample Integrity	Y
	Proper Temperature	Y
	Proper Preservative	Y

COMMENTS

High recoveries on the semi-volatiles laboratory control sample are marginal exceedences, acceptable by the number of analytes spiked. Low semi-volatiles surrogate recoveries are due to matrix interference.

QUALIFIERS

Qualifiers	Definition
Q	Analyte is not within quality control limits

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", 20th edition, 1998.

"American Society for Testing and Materials" (ASTM).

"Association of Analytical Chemists" (AOAC).

"Self-Davis and Moore" (2000).



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ANALYTICAL RESULTS

AIC No. 134152-1
 Sample Identification: Outfall 001 11-24-09 1500

Analyte	Method	Result	RL	Units	Batch	Qualifier
Base/Neutral and Acid Compounds By EPA 625						
Bis(2-ethylhexyl)phthalate		35	2.5	ug/l	B6044	
Surrogate Recovery						
2-Fluorobiphenyl		43.2	-	%	B6044	Q
2-Fluorophenol		27.2	-	%	B6044	Q
Nitrobenzene-D5		39.2	-	%	B6044	Q
Phenol-D5		22.2	-	%	B6044	
Terphenyl-D14		72.2	-	%	B6044	
2,4,6-Tribromophenol		67.8	-	%	B6044	
Organochlorine Pesticides and PCBs By EPA 608						
alpha-Endosulfan		< 0.014	0.014	ug/l	G7832	
Dieldrin		< 0.002	0.002	ug/l	G7832	
Surrogate Recovery						
Decachlorobiphenyl		61.0	-	%	G7832	
Tetrachloro-m-xylene		67.0	-	%	G7832	
Total Recoverable:						
Cadmium	EPA 200.8	< 0.004	0.004	mg/l	S26794	



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SAMPLE PREPARATION REPORT

AIC No. 134152-1

<u>Analyte</u>	<u>Date/Time Prepared By</u>	<u>Date/Time Analyzed By</u>	<u>Dilution</u>	<u>Batch</u>	<u>Qualifier</u>
Base/Neutral and Acid Compounds	25NOV09 1047 290	02DEC09 1407 167		B6044	
Organochlorine Pesticides and PCBs	25NOV09 1342 290	02DEC09 1200 288		G7832	
Total Recoverable: Metals	25NOV09 1211 286	25NOV09 1924 270		S26794	

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LABORATORY CONTROL SAMPLE RESULTS

Analyte	Spike Amount	% Recovery	% Recovery Limits	RPD	RPD Limit	Batch	Qualifier
Base/Neutral and Acid Compounds							
Acenaphthene	20 ug/l	96.8/95.8	67.3-109	1.04	20.9	B6044	
Acenaphthylene	20 ug/l	96.4/93.7	66.1-107	2.89	44	B6044	
Anthracene	20 ug/l	102/98.6	67.9-110	3.68	22	B6044	
Benzo(a)anthracene	20 ug/l	105/102	67.7-112	2.75	22.4	B6044	
Benzo(a)pyrene	20 ug/l	110/107	68-114	1.94	21	B6044	
Benzo(g,h,i)perylene	20 ug/l	114/122	61.7-140	6.65	27.9	B6044	
Benzo(k)fluoranthene	20 ug/l	108/105	64-119	2.68	24	B6044	
3,4-Benzofluoranthene	20 ug/l	113/108	65.2-121	4.50	38.8	B6044	
Bis(2-chloroethoxy)methane	20 ug/l	95.4/95.0	64.6-106	0.368	22.8	B6044	
Bis(2-chloroethyl)ether	20 ug/l	92.3/91.8	65.6-103	0.543	19.7	B6044	
Bis(2-chloroisopropyl)ether	20 ug/l	91.0/90.8	65.3-105	0.110	19.6	B6044	
Bis(2-ethylhexyl)phthalate	20 ug/l	111/108	63.2-126	2.93	23.4	B6044	
4-Bromophenyl phenyl ether	20 ug/l	107/108	64.9-109	0.697	22.9	B6044	
Butylbenzyl phthalate	20 ug/l	110/108	58-127	1.42	28	B6044	
2-Chloronaphthalene	20 ug/l	96.3/96.0	61.2-101	0.312	22.2	B6044	
2-Chlorophenol	20 ug/l	94.8/93.2	63.1-102	1.70	30	B6044	
4-Chlorophenyl phenyl ether	20 ug/l	95.9/93.3	63.7-106	2.75	20.7	B6044	
Chrysene	20 ug/l	104/101	70.1-113	3.71	21.9	B6044	
Di-n-butyl phthalate	20 ug/l	100/96.3	64.7-119	4.12	22.7	B6044	
Di-n-octyl phthalate	20 ug/l	117/111	46.7-132	4.79	29	B6044	
Dibenzo(a,h)anthracene	20 ug/l	118/136	62.1-142	14.4	25.9	B6044	
1,2-Dichlorobenzene	20 ug/l	85.2/85.2	47.8-97.9	0.0587	20.2	B6044	
1,3-Dichlorobenzene	20 ug/l	83.2/83.2	54-97.4	0.00	24.3	B6044	
1,4-Dichlorobenzene	20 ug/l	82.2/82.4	47.1-91.3	0.243	23.7	B6044	
2,4-Dichlorophenol	20 ug/l	93.0/92.6	65.7-101	0.485	16.8	B6044	
Diethyl phthalate	20 ug/l	97.0/93.2	62.8-112	4.10	24.5	B6044	
Dimethyl phthalate	20 ug/l	100/96.6	63.8-112	3.56	28	B6044	
2,4-Dimethylphenol	20 ug/l	96.8/77.4	3-111	22.2	60.7	B6044	
4,6-Dinitro-o-cresol	20 ug/l	49.0/52.8	49.6-115	7.27	31.8	B6044	
2,4-Dinitrophenol	20 ug/l	38.6/42.4	29.9-119	9.14	45.3	B6044	
2,4-Dinitrotoluene	20 ug/l	94.0/91.3	64.8-108	2.86	24	B6044	
2,6-Dinitrotoluene	20 ug/l	95.8/95.2	65.4-112	0.628	19.4	B6044	
1,2-Diphenylhydrazine	20 ug/l	108/105	66.1-107	2.48	19.7	B6044	
Fluoranthene	20 ug/l	90.8/83.4	61-119	8.50	21.6	B6044	
Fluorene	20 ug/l	98.2/96.4	68.7-111	1.85	20.7	B6044	
Hexachlorobenzene	20 ug/l	117/115	66.8-109	1.73	22.1	B6044	Q
Hexachlorobutadiene	20 ug/l	94.9/97.7	43.3-93	2.91	26.8	B6044	Q
Hexachlorocyclopentadiene	20 ug/l	78.2/81.2	41-101	3.77	31.4	B6044	
Hexachloroethane	20 ug/l	84.4/84.2	40.2-91.5	0.178	25	B6044	
Indeno(1,2,3-cd)pyrene	20 ug/l	118/129	58.9-139	8.70	30.7	B6044	
Isophorone	20 ug/l	92.6/91.6	62.6-106	1.03	19.7	B6044	
n-Nitrosodi-n-propylamine	20 ug/l	97.6/94.5	65.4-110	3.18	24	B6044	
n-Nitrosodimethylamine	20 ug/l	73.0/71.0	37.3-77.1	2.92	40.1	B6044	
n-Nitrosodiphenylamine	20 ug/l	102/99.6	60.7-103	2.82	22.8	B6044	
Naphthalene	20 ug/l	93.7/92.8	66.7-106	0.911	30	B6044	
Nitrobenzene	20 ug/l	98.0/96.4	66-100	1.54	20.3	B6044	
2-Nitrophenol	20 ug/l	92.5/94.6	61.4-105	2.30	16.9	B6044	

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LABORATORY CONTROL SAMPLE RESULTS

Analyte	Spike Amount	% Recovery	% Recovery Limits	RPD	RPD Limit	Batch	Qualifier
Base/Neutral and Acid Compounds (Continued)							
4-Nitrophenol	20 ug/l	43.7/39.2	23.9-89.3	10.9	38.5	B6044	
p-Chloro-m-cresol	20 ug/l	91.4/90.1	45-110	1.43	22.4	B6044	
Pentachlorophenol	20 ug/l	62.0/60.0	45.6-117	3.11	29.3	B6044	
Phenanthrene	20 ug/l	102/99.0	69.6-111	3.23	22.1	B6044	
Phenol	20 ug/l	66.8/65.6	37-75.1	1.96	25.4	B6044	
Pyrene	20 ug/l	116/121	56.6-133	3.93	21.9	B6044	
1,2,4-Trichlorobenzene	20 ug/l	86.6/87.2	53.5-93.8	0.690	25.3	B6044	
2,4,6-Trichlorophenol	20 ug/l	91.8/92.2	62.3-105	0.380	22.1	B6044	
Surrogate Recovery							
2-Fluorobiphenyl	20 ug/l	86.6/85.8	61.3-103	-	-	B6044	
2-Fluorophenol	20 ug/l	76.4/74.6	53.8-87.8	-	-	B6044	
Nitrobenzene-D5	20 ug/l	91.1/90.4	62.9-105	-	-	B6044	
Phenol-D5	20 ug/l	56.3/55.2	37.6-64.4	-	-	B6044	
Terphenyl-D14	20 ug/l	118/120	62.2-117	-	-	B6044	Q
2,4,6-Tribromophenol	20 ug/l	79.8/81.4	30.5-120	-	-	B6044	
Organochlorine Pesticides and PCBs							
Aldrin	0.2 ug/l	75.5/81.5	39.8-109	7.64	20.5	G7832	
alpha-BHC	0.2 ug/l	76.5/83.5	52.7-112	8.75	13.6	G7832	
alpha-Endosulfan	0.2 ug/l	79.0/85.0	57.6-116	7.32	14.4	G7832	
beta-BHC	0.2 ug/l	83.0/91.5	59.6-115	9.74	13.9	G7832	
beta-Endosulfan	0.2 ug/l	80.5/86.5	59.8-120	7.19	18	G7832	
Chlorpyrifos	0.4 ug/l	63.8/70.0	46.6-141	9.35	32.7	G7832	
4,4'-DDD	0.2 ug/l	80.5/87.5	56.4-121	8.33	17.8	G7832	
4,4'-DDE	0.2 ug/l	80.0/85.5	62.1-118	6.65	18	G7832	
4,4'-DDT	0.2 ug/l	86.0/94.5	45-135	9.42	29.3	G7832	
delta-BHC	0.2 ug/l	81.5/87.5	46.6-113	7.10	13.5	G7832	
Dieldrin	0.2 ug/l	82.0/89.5	61.1-126	8.75	19	G7832	
Endosulfan sulfate	0.2 ug/l	81.0/87.5	60.2-112	7.72	18.7	G7832	
Endrin	0.2 ug/l	83.0/91.0	58.6-121	9.20	21.1	G7832	
Endrin aldehyde	0.2 ug/l	88.0/98.0	62.2-121	10.8	19.6	G7832	
gamma-BHC (Lindane)	0.2 ug/l	81.5/89.5	63.2-119	9.36	17	G7832	
Heptachlor	0.2 ug/l	81.0/88.5	48.4-123	8.85	20.8	G7832	
Heptachlor epoxide	0.2 ug/l	82.5/91.0	54.1-116	9.80	16.4	G7832	
Surrogate Recovery							
Decachlorobiphenyl	0.2 ug/l	83.0/89.5	41.9-115	-	-	G7832	
Tetrachloro-m-xylene	0.2 ug/l	75.5/82.5	42.9-109	-	-	G7832	
Total Recoverable:							
Cadmium	0.05 mg/l	99.6/99.3	85-115	0.303	20	S26794	

MATRIX SPIKE SAMPLE RESULTS

Analyte	Spike Amount	% Recovery	% Recovery Limits	RPD	RPD Limit	Batch	Qualifier
Total Recoverable:							
Cadmium	0.05 mg/l	95.5/95.4	75-125	0.0837	20	S26794	



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LABORATORY BLANK RESULTS

Analyte	Method	Result	Units	RL	PQL	QC Sample	Qual
Base/Neutral and Acid Compounds By EPA 625							
Bis(2-ethylhexyl)phthalate		< 2.5	ug/l	2.5	5	B6044-1	
Surrogate Recovery							
2-Fluorobiphenyl		71.9	%	-	-	B6044-1	
2-Fluorophenol		58.6	%	-	-	B6044-1	
Nitrobenzene-D5		72.6	%	-	-	B6044-1	
Phenol-D5		42.0	%	-	-	B6044-1	
Terphenyl-D14		103	%	-	-	B6044-1	
2,4,6-Tribromophenol		33.0	%	-	-	B6044-1	
Organochlorine Pesticides and PCBs By EPA 608							
alpha-Endosulfan		< 0.014	ug/l	0.014	0.02	G7832-1	
Dieldrin		< 0.002	ug/l	0.002	0.02	G7832-1	
Surrogate Recovery							
Decachlorobiphenyl		78.5	%	-	-	G7832-1	
Tetrachloro-m-xylene		78.5	%	-	-	G7832-1	
Total Recoverable:							
Cadmium	EPA 200.8	< 0.004	mg/l	0.004	0.004	S26794-1	



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QUALITY CONTROL PREPARATION REPORT

LABORATORY CONTROL SAMPLES

Analyte	Date/Time Prepared By	Date/Time Analyzed By	Dilution	QC Sample	Qualifier
Metals	25NOV09 0946 286	25NOV09 1624 270		S26794-3	
Base/Neutral and Acid Compounds	25NOV09 1048 290	25NOV09 1919 167		B6044-2	Q
Base/Neutral and Acid Compounds	25NOV09 1048 290	25NOV09 1958 167		B6044-3	Q
Organochlorine Pesticides and PCBs	25NOV09 1342 290	02DEC09 1131 288		G7832-2	
Organochlorine Pesticides and PCBs	25NOV09 1342 290	02DEC09 1145 288		G7832-3	
Total Recoverable:					
Metals	25NOV09 0946 286	25NOV09 1616 270		S26794-2	
Metals	25NOV09 0946 286	25NOV09 1624 270		S26794-3	

MATRIX SPIKE SAMPLES

Analyte	Date/Time Prepared By	Date/Time Analyzed By	Dilution	QC Sample	Qualifier
Metals	25NOV09 0946 286	25NOV09 1642 270		S26794-5	
Total Recoverable:					
Metals	25NOV09 0946 286	25NOV09 1633 270		S26794-4	
Metals	25NOV09 0946 286	25NOV09 1642 270		S26794-5	

LABORATORY BLANKS

Analyte	Date/Time Prepared By	Date/Time Analyzed By	Dilution	QC Sample	Qualifier
Base/Neutral and Acid Compounds	25NOV09 1048 290	25NOV09 1840 167		B6044-1	
Organochlorine Pesticides and PCBs	25NOV09 1342 290	02DEC09 1116 288		G7832-1	
Total Recoverable:					
Metals	25NOV09 0946 286	25NOV09 1607 270		S26794-1	