



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

Dear Ms. Rachel Johnson:

Project Description: Two (2) water sample(s) received on December 16, 2009  
Outfall 001  
P.O. No. 783315

This report is the analytical results and supporting information for the samples submitted to American Interplex Corporation (AIC) on December 16, 2009. The following results are applicable only to the samples 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 name 'John Overbey' and the title 'Laboratory Director' are printed in a standard font.

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

QUALIFIERS

Qualifiers	Definition
D	Result is from a secondary dilution factor
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. 134678-1  
Sample Identification: Outfall 001 12/10/09

Analyte	Method	Result	RL	Units	Batch	Qualifier
Base/Neutral and Acid Compounds By EPA 625						
Bis(2-ethylhexyl)phthalate		6.6	2.5	ug/l	B6089	
Surrogate Recovery						
2-Fluorobiphenyl		64.5	-	%	B6089	
2-Fluorophenol		51.2	-	%	B6089	
Nitrobenzene-D5		76.4	-	%	B6089	
Phenol-D5		41.6	-	%	B6089	
Terphenyl-D14		67.8	-	%	B6089	
2,4,6-Tribromophenol		63.2	-	%	B6089	
Organochlorine Pesticides and PCBs By EPA 608						
alpha-Endosulfan		< 0.014	0.014	ug/l	G7858	
Dieldrin		< 0.002	0.002	ug/l	G7858	
Surrogate Recovery						
Decachlorobiphenyl		18.0	-	%	G7858	
Tetrachloro-m-xylene		25.5	-	%	G7858	Q
Total Recoverable:						
Cadmium	EPA 200.8	< 0.004	0.004	mg/l	S26910	

AIC No. 134678-2  
Sample Identification: Outfall 001 12/14/09

Analyte	Method	Result	RL	Units	Batch	Qualifier
Base/Neutral and Acid Compounds By EPA 625						
Bis(2-ethylhexyl)phthalate		22	10	ug/l	B6089	D
Surrogate Recovery						
2-Fluorobiphenyl		-	-		B6089	D
2-Fluorophenol		-	-		B6089	D
Nitrobenzene-D5		-	-		B6089	D
Phenol-D5		-	-		B6089	D
Terphenyl-D14		-	-		B6089	D
2,4,6-Tribromophenol		-	-		B6089	D
Organochlorine Pesticides and PCBs By EPA 608						
alpha-Endosulfan		< 0.014	0.014	ug/l	G7858	
Dieldrin		< 0.002	0.002	ug/l	G7858	
Surrogate Recovery						
Decachlorobiphenyl		15.5	-	%	G7858	
Tetrachloro-m-xylene		14.5	-	%	G7858	Q
Total Recoverable:						
Cadmium	EPA 200.8	< 0.004	0.004	mg/l	S26910	



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SAMPLE PREPARATION REPORT

AIC No. 134678-1	Date/Time Prepared By	Date/Time Analyzed By	Dilution	Batch	Qualifier
Analyte					
Base/Neutral and Acid Compounds	16DEC09 1432 290	22DEC09 1457 293		B6089	
Organochlorine Pesticides and PCBs	16DEC09 1038 290	21DEC09 1726 288		G7858	
Total Recoverable:					
Metals	16DEC09 1431 286	17DEC09 0026 270		S26910	

AIC No. 134678-2	Date/Time Prepared By	Date/Time Analyzed By	Dilution	Batch	Qualifier
Analyte					
Base/Neutral and Acid Compounds	16DEC09 1432 290	21DEC09 1808 167	4	B6089	D
Organochlorine Pesticides and PCBs	16DEC09 1038 290	21DEC09 1741 288		G7858	
Total Recoverable:					
Metals	16DEC09 1431 286	17DEC09 0034 270		S26910	



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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	89.2/91.3	67.3-109	2.38	20.9	B6089	
Acenaphthylene	20 ug/l	89.2/92.2	66.1-107	3.25	44	B6089	
Anthracene	20 ug/l	93.3/97.2	67.9-110	4.04	22	B6089	
Benzo(a)anthracene	20 ug/l	88.9/93.4	67.7-112	4.99	22.4	B6089	
Benzo(a)pyrene	20 ug/l	90.1/95.4	68-114	5.77	21	B6089	
Benzo(g,h,i)perylene	20 ug/l	84.6/93.0	61.7-140	9.40	27.9	B6089	
Benzo(k)fluoranthene	20 ug/l	94.6/94.9	64-119	0.317	24	B6089	
3,4-Benzofluoranthene	20 ug/l	92.6/98.4	65.2-121	5.97	38.8	B6089	
Bis(2-chloroethoxy)methane	20 ug/l	86.9/88.6	64.6-106	1.88	22.8	B6089	
Bis(2-chloroethyl)ether	20 ug/l	89.6/92.2	57.5-110	2.91	19.7	B6089	
Bis(2-chloroisopropyl)ether	20 ug/l	90.2/90.8	62.9-106	0.773	19.6	B6089	
Bis(2-ethylhexyl)phthalate	20 ug/l	89.6/91.5	55.9-126	2.04	23.4	B6089	
4-Bromophenyl phenyl ether	20 ug/l	87.3/90.4	60.6-119	3.49	22.9	B6089	
Butylbenzyl phthalate	20 ug/l	93.8/97.2	58-127	3.61	28	B6089	
2-Chloronaphthalene	20 ug/l	86.6/88.8	65.6-109	2.51	22.2	B6089	
2-Chlorophenol	20 ug/l	89.2/91.2	63.1-102	2.22	30	B6089	
4-Chlorophenyl phenyl ether	20 ug/l	85.8/89.6	63.7-106	4.22	20.7	B6089	
Chrysene	20 ug/l	89.7/92.6	70.1-113	3.24	21.9	B6089	
Di-n-butyl phthalate	20 ug/l	93.2/94.9	64.7-119	1.86	22.7	B6089	
Di-n-octyl phthalate	20 ug/l	106/111	46.7-132	4.05	29	B6089	
Dibenzo(a,h)anthracene	20 ug/l	97.6/106	62.1-142	8.58	25.9	B6089	
1,2-Dichlorobenzene	20 ug/l	85.0/85.6	58.6-101	0.703	20.2	B6089	
1,3-Dichlorobenzene	20 ug/l	82.2/82.5	54-97.4	0.425	24.3	B6089	
1,4-Dichlorobenzene	20 ug/l	82.5/83.2	47.1-91.3	0.845	23.7	B6089	
2,4-Dichlorophenol	20 ug/l	81.2/81.6	64.2-109	0.430	16.8	B6089	
Diethyl phthalate	20 ug/l	88.6/91.7	62.8-112	3.50	24.5	B6089	
Dimethyl phthalate	20 ug/l	88.6/91.2	63.8-112	2.84	28	B6089	
2,4-Dimethylphenol	20 ug/l	79.9/79.9	75-134	0.00	29.5	B6089	
4,6-Dinitro-o-cresol	20 ug/l	78.8/85.2	37.2-133	7.75	31.8	B6089	
2,4-Dinitrophenol	20 ug/l	69.5/85.7	20-132	20.9	45.3	B6089	
2,4-Dinitrotoluene	20 ug/l	89.8/93.0	64.8-108	3.56	24	B6089	
2,6-Dinitrotoluene	20 ug/l	86.3/90.9	66.6-112	5.19	19.4	B6089	
1,2-Diphenylhydrazine	20 ug/l	87.8/92.1	66.1-107	4.72	19.7	B6089	
Fluoranthene	20 ug/l	97.4/99.5	61-119	2.08	21.6	B6089	
Fluorene	20 ug/l	90.7/95.2	68.7-111	4.89	20.7	B6089	
Hexachlorobenzene	20 ug/l	87.4/89.2	67.1-122	1.98	22.1	B6089	
Hexachlorobutadiene	20 ug/l	87.4/87.3	57-115	0.0573	26.8	B6089	
Hexachlorocyclopentadiene	20 ug/l	74.7/75.2	41.2-113	0.667	31.4	B6089	
Hexachloroethane	20 ug/l	78.4/79.6	50.3-103	1.65	25	B6089	
Indeno(1,2,3-cd)pyrene	20 ug/l	91.1/99.1	58.9-139	8.41	30.7	B6089	
Isophorone	20 ug/l	81.6/83.4	62.6-106	2.12	19.7	B6089	
n-Nitrosodi-n-propylamine	20 ug/l	90.6/90.4	65.4-110	0.276	24	B6089	
n-Nitrosodimethylamine	20 ug/l	80.6/81.8	32.4-92.2	1.54	40.1	B6089	
n-Nitrosodiphenylamine	20 ug/l	88.4/92.4	56.2-114	4.31	22.8	B6089	
Naphthalene	20 ug/l	89.2/90.8	66.7-106	1.89	30	B6089	
Nitrobenzene	20 ug/l	90.6/91.1	63.9-113	0.606	20.3	B6089	
2-Nitrophenol	20 ug/l	87.2/90.8	68.1-110	4.05	16.9	B6089	

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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	67.0/71.6	23.9-89.3	6.71	38.5	B6089	
p-Chloro-m-cresol	20 ug/l	85.4/92.2	45-110	7.55	22.4	B6089	
Pentachlorophenol	20 ug/l	90.2/98.6	37.4-141	8.89	29.3	B6089	
Phenanthrene	20 ug/l	91.8/95.2	69.6-111	3.58	22.1	B6089	
Phenol	20 ug/l	54.3/54.6	37-75.1	0.642	25.4	B6089	
Pyrene	20 ug/l	85.6/89.4	56.6-133	4.40	25	B6089	
1,2,4-Trichlorobenzene	20 ug/l	81.6/83.2	53.5-93.8	1.82	25.3	B6089	
2,4,6-Trichlorophenol	20 ug/l	84.3/88.1	64.8-114	4.41	22.1	B6089	
Surrogate Recovery							
2-Fluorobiphenyl	20 ug/l	78.8/79.9	69.3-96.7	-		B6089	
2-Fluorophenol	20 ug/l	71.2/71.4	53.8-87.8	-		B6089	
Nitrobenzene-D5	20 ug/l	85.1/87.0	69.6-105	-		B6089	
Phenol-D5	20 ug/l	50.2/51.2	37.6-64.4	-		B6089	
Terphenyl-D14	20 ug/l	84.8/88.8	64.2-129	-		B6089	
2,4,6-Tribromophenol	20 ug/l	81.9/85.4	30.5-120	-		B6089	
Organochlorine Pesticides and PCBs							
Aldrin	0.2 ug/l	89.0/90.0	39.8-109	1.12	20.5	G7858	
alpha-BHC	0.2 ug/l	83.5/87.0	52.7-112	4.11	13.6	G7858	
alpha-Endosulfan	0.2 ug/l	91.5/88.5	57.6-116	3.33	14.4	G7858	
beta-BHC	0.2 ug/l	93.5/95.0	59.6-115	1.59	13.9	G7858	
beta-Endosulfan	0.2 ug/l	94.0/92.5	59.8-120	1.61	18	G7858	
Chlorpyrifos	0.4 ug/l	74.0/74.5	33.7-124	0.673	32.7	G7858	
4,4'-DDD	0.2 ug/l	92.0/90.5	56.4-121	1.64	17.8	G7858	
4,4'-DDE	0.2 ug/l	96.5/96.0	62.1-118	0.519	18	G7858	
4,4'-DDT	0.2 ug/l	103/102	45-135	0.487	29.3	G7858	
delta-BHC	0.2 ug/l	88.0/88.5	46.6-113	0.567	13.5	G7858	
Dieldrin	0.2 ug/l	97.0/96.5	61.1-126	0.517	19	G7858	
Endosulfan sulfate	0.2 ug/l	89.5/87.5	60.2-112	2.26	18.7	G7858	
Endrin	0.2 ug/l	95.0/95.0	58.6-121	0.00	21.1	G7858	
Endrin aldehyde	0.2 ug/l	100/99.5	62.2-121	0.501	19.6	G7858	
gamma-BHC (Lindane)	0.2 ug/l	94.5/96.0	63.2-119	1.57	17	G7858	
Heptachlor	0.2 ug/l	96.5/97.0	48.4-123	0.517	20.8	G7858	
Heptachlor epoxide	0.2 ug/l	98.0/99.0	54.1-116	1.02	16.4	G7858	
Surrogate Recovery							
Decachlorobiphenyl	0.2 ug/l	89.0/86.5	41.9-115	-		G7858	
Tetrachloro-m-xylene	0.2 ug/l	84.0/81.5	42.9-109	-		G7858	
Total Recoverable:							
Cadmium	0.05 mg/l	99.8/99.7	85-115	0.0589	20	S26910	

MATRIX SPIKE SAMPLE RESULTS

Analyte	Spike Amount	% Recovery	% Recovery Limits	RPD	RPD Limit	Batch	Qualifier
Total Recoverable:							
Cadmium	0.05 mg/l	99.7/99.3	75-125	0.447	20	S26910	



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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	B6089-1	
Surrogate Recovery							
2-Fluorobiphenyl		92.6	%	-	-	B6089-1	
2-Fluorophenol		74.6	%	-	-	B6089-1	
Nitrobenzene-D5		91.4	%	-	-	B6089-1	
Phenol-D5		59.6	%	-	-	B6089-1	
Terphenyl-D14		95.0	%	-	-	B6089-1	
2,4,6-Tribromophenol		69.1	%	-	-	B6089-1	
Organochlorine Pesticides and PCBs By EPA 608							
alpha-Endosulfan		< 0.014	ug/l	0.014	0.02	G7858-5	
Dieldrin		< 0.002	ug/l	0.002	0.02	G7858-5	
Surrogate Recovery							
Decachlorobiphenyl		55.5	%	-	-	G7858-5	
Tetrachloro-m-xylene		59.5	%	-	-	G7858-5	
Total Recoverable:							
Cadmium	EPA 200.8	< 0.004	mg/l	0.004	0.004	S26910-1	



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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	16DEC09 1431 286	16DEC09 2154 270		S26910-3	
Base/Neutral and Acid Compounds	16DEC09 1433 290	17DEC09 1334 167		B6089-2	
Base/Neutral and Acid Compounds	16DEC09 1433 290	17DEC09 1408 167		B6089-3	
Organochlorine Pesticides and PCBs	16DEC09 1038 290	21DEC09 1643 288		G7858-6	
Organochlorine Pesticides and PCBs	16DEC09 1038 290	21DEC09 1657 288		G7858-7	
Total Recoverable:					
Metals	16DEC09 1431 286	16DEC09 2145 270		S26910-2	
Metals	16DEC09 1431 286	16DEC09 2154 270		S26910-3	

MATRIX SPIKE SAMPLES

Analyte	Date/Time Prepared By	Date/Time Analyzed By	Dilution	QC Sample	Qualifier
Metals	16DEC09 1431 286	16DEC09 2212 270		S26910-5	
Total Recoverable:					
Metals	16DEC09 1431 286	16DEC09 2203 270		S26910-4	
Metals	16DEC09 1431 286	16DEC09 2212 270		S26910-5	

LABORATORY BLANKS

Analyte	Date/Time Prepared By	Date/Time Analyzed By	Dilution	QC Sample	Qualifier
Base/Neutral and Acid Compounds	16DEC09 1433 290	17DEC09 1300 167		B6089-1	
Organochlorine Pesticides and PCBs	16DEC09 1038 290	21DEC09 1628 288		G7858-5	
Total Recoverable:					
Metals	16DEC09 1431 286	16DEC09 2136 270		S26910-1	