



237547

**CBS Corporation**

Bloomington Project
P.O. Box 997
Bloomington, IN 47402
(812) 334-0030
(812) 334-7855 (Fax)

December 20, 1999

BP-99-0101

To: DISTRIBUTION LIST

Subject: Pre- & Post-Excavation Groundwater Monitoring Results for Bennetts Dump

CBS Corporation performed pre-excavation groundwater sampling at on-site monitoring wells and nearby surface waters on August 25-26, 1999. Post-excavation sampling at the same locations was done on November 11 & 12, 1999. These sampling events were in accordance with what CBS agreed to in the Bennetts Dump Statement of Work (SOW).

This report contains the analytical results and field data associated with these sampling events. A sample location map of springs, streams, and on-site monitoring wells (Figure 1) is included.

Ground water samples were collected from three monitor wells in accordance with approved sampling protocols. Prior to sample collection, the water level in each well was measured and the volume of water in well storage was calculated. Each well was then purged dry or until field parameters (temperature, pH, and specific conductance) stabilized to allow representative samples to be obtained.

Samples were collected upon completion of purging. Each sample was withdrawn with the dedicated bladder pump used to purge each respective well and added directly to the sample bottles.

Grab samples were supposed to be collected from the south line of seeps and the north spring at the culvert under the tracks, both of which were dry at the time of sampling in both August and November. Stouts Creek adjacent to the site was also dry at the time of the August sampling.

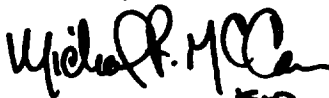
The field parameters of the samples were also measured and recorded. For quality assurance purposes, a duplicate sample, a matrix spike, and a field blank were also collected during monitoring well sampling. All samples were labeled and logged onto a chain-of-custody form. These samples were stored and transported in insulated coolers containing wet ice. Custody of the water samples was maintained by CBS Corporation until delivery to the analytical laboratory.

The water samples and quality assurance samples were analyzed by Heritage Laboratories, Inc., in Indianapolis, Indiana. The samples were analyzed to a detection limit of 0.1 parts per billion (ppb) for all PCB parameters, except as noted, by EPA Method 608/SW-846 Method 8082.

Attachment 1 contains Figure 1, Sample Location Map with Monitoring Well Locations. Field measurements and PCB analytical results for the monitoring wells and surface water sample locations are presented in Table 1. Laboratory reports for the sampling events are included in Attachment 2, and corresponding field log sheets are contained in Attachment 3. Attachment 4 contains the validation reports for the lab analyses.

If you have any questions, please call Mike McCann at (812) 334-0030.

Sincerely,

A handwritten signature in black ink, appearing to read "Dorothy M. Alke". The signature is stylized with a large, looped "D" and "A".

Dorothy M. Alke ^{For}
Project Director

Attachment 1

**Sample Location Map
with
Monitoring Well
Locations**

Summary Table of Sampling Results

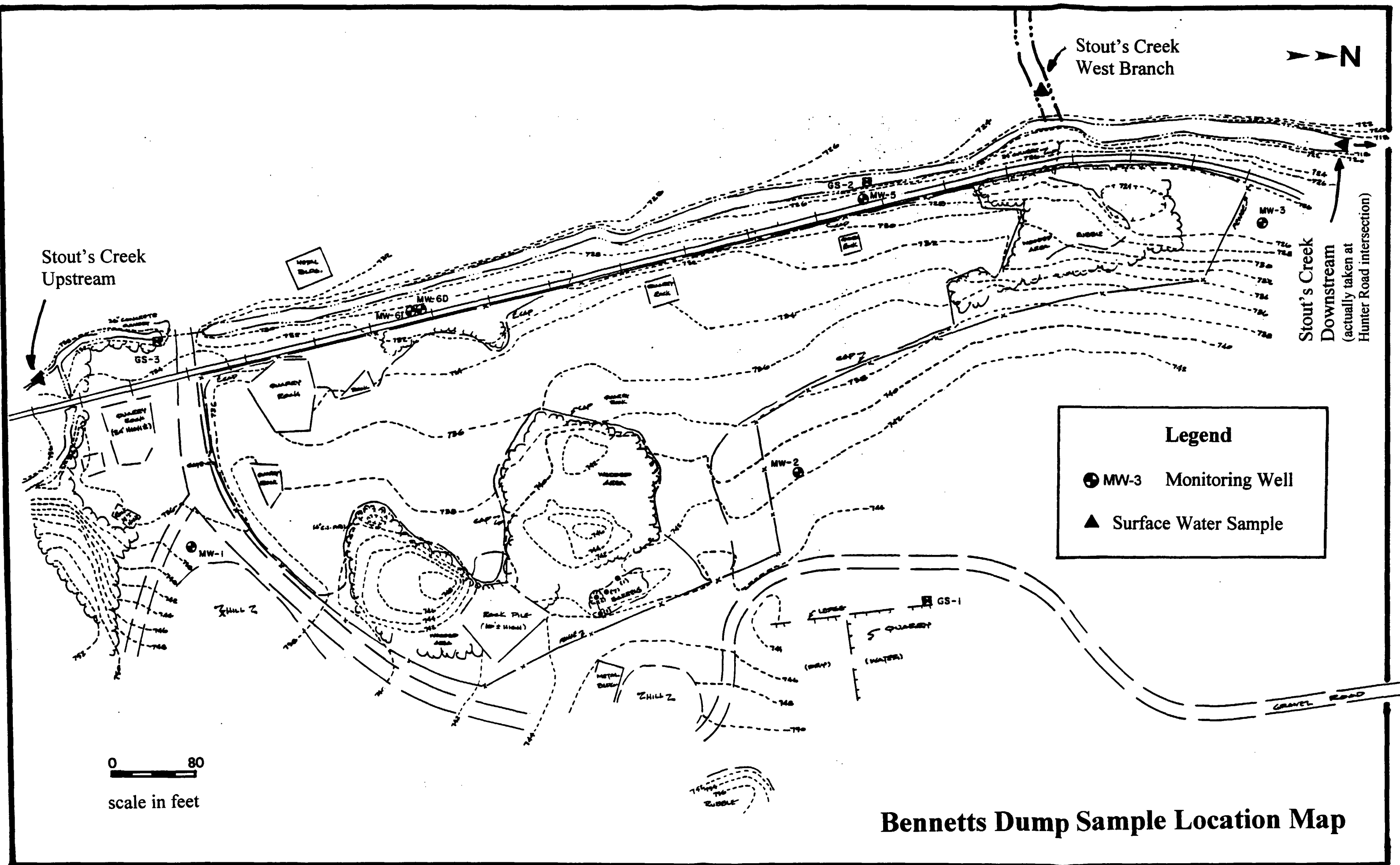


Table 1 - Bennett's Dump Groundwater & Surface Water Sampling Results

Location	TOC Elevation (feet)	Depth to Water (feet)	Water Elevation (feet)	Temperature (deg C)	Conductivity (us/cm)	pH	Sample Number	PCBs (ppb)	TSS (ppm)	Comments
<i>Pre-excavation - August 25 & 26, 1999</i>										
MW-6i	732.06	5.26	726.8	15.1	584	7.08	BD9002	0.11	200	
MW-6i	732.06	5.26	726.8	15.1	584	7.08	BD9003	0.11	170	Duplicate
MW-6D	731.99	4.65	727.34	14.0	607	6.9	BD9001	58	110	
MW-3	727.69	8.85	718.84	13.3	441	7.1	BD9007	BDL	41	
Stout's Cr. Upstrm				21.5	520		BD9005	BDL	35	
Stout's Cr. Dnstrm				21.6	445		BD9004	BDL	5	
W. Branch Stout's Cr.				23.4	403		BD9006	0.14	5	
Field Blank							BD9008	BDL	3	
<i>Post-excavation - November 11 & 12, 1999</i>										
MW-6i	732.06	5.34	726.72	14.7	575	7.1	BD9009	0.13	16	
MW-6D	731.99	4.94	727.05	13.1	603	6.8	BD9010	7	2	
MW-6D	731.99	4.94	727.05	13.1	603	6.8	BD9011	6.2	BDL	Duplicate
MW-3	727.69	8.53	719.16	12.8	445	6.8	BD9016	BDL	22	
Stout's Cr. Upstrm				12.0	675		BD9012	BDL	4	
Stout's Cr. Dnstrm				11.0	670		BD9013	BDL	6	
W. Branch Stout's Cr.				12.6	623		BD9014	BDL	2	
Field Blank							BD9015	BDL	BDL	

BDL - below detection limit

Attachment 2

Laboratory Certificates of Analysis

C E R T I F I C A T E O F A N A L Y S I S

Service Location HERITAGE ENVIRONMENTAL SERVICES, LLC COMMERCIAL LABORATORY OPERATIONS 7901 W. MORRIS ST. INDIANAPOLIS, IN 46231 (317)243-8304	Received	Project	Lab ID
	27-AUG-99	4602	A493876
	Complete	PO Number	
	10-SEP-99	
	Printed	Sampled	
	10-SEP-99	25-AUG-99 16:15	

Report To JIM PATRICK CBS CORPORATION ONE CITY CENTRE - SUITE 210 P.O. BOX 997 BLOOMINGTON, IN 47404-0997	Bill To ACCOUNTS PAYABLE CBS CORPORATION ONE CITY CENTRE - SUITE 210 PO BOX 997 BLOOMINGTON, IN 47402-0997
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CLIENT ID: BD9001 MATRIX: WG SITE: BENNETT'S DUMP	Sample Description
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PCB SEPARATORY FUNNEL LIQUID-LIQUID EXTRACTION SW846-3510B			
Analyst: B. WOOD	Analysis Date: 31-AUG-99	Instrument: PREP	Test: P230.1.0
Parameter	Result	Det. Limit	Units
WET WEIGHT RESULTS			
INITIAL WEIGHT OR VOLUME	950		mL
FINAL VOLUME	5		mL

PCB AROCLORS BY GAS CHROMATOGRAPHY/ECD SW846-8082			
Analyst: S. BRYAN	Analysis Date: 02-SEP-99	Instrument: GC/ECD	Test: 0301.7.0
Prep: PCB SEPARATORY FUNNEL LIQUID-LIQUID EXTRACTION SW846-3510B P230.1.0			
Parameter	Result	Det. Limit	Units
WET WEIGHT RESULTS			
PCB AROCLOR 1016	BDL	2.0	ug/L
PCB AROCLOR 1221	BDL	10	ug/L
PCB AROCLOR 1232	BDL	2.0	ug/L
PCB AROCLOR 1242	58	2.0	ug/L
PCB AROCLOR 1248	BDL	2.0	ug/L
PCB AROCLOR 1254	BDL	2.0	ug/L
PCB AROCLOR 1260	BDL	2.0	ug/L
PCB AROCLOR 1262	BDL	2.0	ug/L

SURROGATE RECOVERY			

DECACHLOROBIPHENYL (DCB)	40.0		% Rec
1:20 Dilution.			
DEGRADED AROCLOR 1242 REPORTED, HOWEVER SAMPLE HAD STRONG 1248 CHARACTERISTICS.			

TOTAL PCB CALCULATION HLI3			
Analyst: S. BRYAN	Analysis Date: 02-SEP-99	Instrument: GC/ECD	Test: 0301.3.0

Parameter	Result	Det. Limit	Units
WET WEIGHT RESULTS TOTAL PCBS 1:20 Dilution.	58	2.0	ug/L

TOTAL SUSPENDED SOLIDS EPA 160.2			
Analyst: T. BYRNE		Analysis Date: 31-AUG-99 13:00	
Test: G403.7.0			
Parameter	Result	Det. Limit	Units
WET WEIGHT RESULTS SUSPENDED SOLIDS	110	1	mg/L

Sample Comments
<p>BDL Below Detection Limit</p> <p>Sample was received on ice. Sample chain of custody number 86605.</p> <p>This Certificate shall not be reproduced, except in full, without the written approval of the lab.</p> <p>Additional copies of this report sent to: RUSS CEPKO, CBS CORPORATION 11 STANWIX STREET, PITTSBURG, PA 15222-1384</p>

C E R T I F I C A T E O F A N A L Y S I S

Service Location HERITAGE ENVIRONMENTAL SERVICES, LLC COMMERCIAL LABORATORY OPERATIONS 7901 W. MORRIS ST. INDIANAPOLIS, IN 46231 (317)243-8304	Received	Project	Lab ID
	27-AUG-99	4602	A493877
	Complete	PO Number	
	10-SEP-99	
	Printed	Sampled	
	10-SEP-99	25-AUG-99 14:30	

Report To JIM PATRICK CBS CORPORATION ONE CITY CENTRE - SUITE 210 P.O. BOX 997 BLOOMINGTON, IN 47404-0997	Bill To ACCOUNTS PAYABLE CBS CORPORATION ONE CITY CENTRE - SUITE 210 PO BOX 997 BLOOMINGTON, IN 47402-0997
Sample Description CLIENT ID: BD9002 MATRIX: WG SITE: BENNETT'S DUMP	

PCB SEPARATORY FUNNEL LIQUID-LIQUID EXTRACTION SW846-3510B			
Analyst: B. WOOD	Analysis Date: 31-AUG-99	Instrument: PREP	Test: P230.1.0
Parameter	Result	Det. Limit	Units
WET WEIGHT RESULTS			
INITIAL WEIGHT OR VOLUME	930		mL
FINAL VOLUME	5		mL

PCB AROCLORS BY GAS CHROMATOGRAPHY/ECD SW846-8082			
Analyst: S. BRYAN	Analysis Date: 01-SEP-99	Instrument: GC/ECD	Test: 0301.7.0
Prep: PCB SEPARATORY FUNNEL LIQUID-LIQUID EXTRACTION SW846-3510B P230.1.0			
Parameter	Result	Det. Limit	Units
WET WEIGHT RESULTS			
PCB AROCLOR 1016	BDL	0.10	ug/L
PCB AROCLOR 1221	BDL	0.50	ug/L
PCB AROCLOR 1232	BDL	0.10	ug/L
PCB AROCLOR 1242	0.11	0.10	ug/L
PCB AROCLOR 1248	BDL	0.10	ug/L
PCB AROCLOR 1254	BDL	0.10	ug/L
PCB AROCLOR 1260	BDL	0.10	ug/L
PCB AROCLOR 1262	BDL	0.10	ug/L
SURROGATE RECOVERY			
----- DECACHLOROBIPHENYL (DCB)	98.0		% Rec

TOTAL PCB CALCULATION HL13			
Analyst: S. BRYAN	Analysis Date: 01-SEP-99	Instrument: GC/ECD	Test: 0301.3.0
Parameter	Result	Det. Limit	Units

Parameter	Result	Det. Limit	Units
WET WEIGHT RESULTS TOTAL PCBS	0.11	0.10	ug/L

TOTAL SUSPENDED SOLIDS EPA 160.2

Analyst: T. BYRNE

Analysis Date: 31-AUG-99 13:00

Test: G403.7.0

Parameter	Result	Det. Limit	Units
WET WEIGHT RESULTS SUSPENDED SOLIDS	200	1	mg/L

Sample Comments*BDL Below Detection Limit**Sample was received on ice.**Sample chain of custody number 86605.**This Certificate shall not be reproduced, except in full,
without the written approval of the lab.**Additional copies of this report sent to:**RUSS CEPKO, CBS CORPORATION**11 STANWIX STREET, PITTSBURG, PA 15222-1384*Approved : *JK fence*

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Service Location HERITAGE ENVIRONMENTAL SERVICES, LLC COMMERCIAL LABORATORY OPERATIONS 7901 W. MORRIS ST. INDIANAPOLIS, IN 46231 (317)243-8304	Received	Project	Lab ID
	27-AUG-99	4602	A493878
	Complete	PO Number	
	10-SEP-99	
	Printed	Sampled	
	10-SEP-99	25-AUG-99 14:30	

Report To JIM PATRICK CBS CORPORATION ONE CITY CENTRE - SUITE 210 P.O. BOX 997 BLOOMINGTON, IN 47404-0997	Bill To ACCOUNTS PAYABLE CBS CORPORATION ONE CITY CENTRE - SUITE 210 PO BOX 997 BLOOMINGTON, IN 47402-0997
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CLIENT ID: BD9003 MATRIX: WG SITE: BENNETT'S DUMP	Sample Description
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PCB SEPARATORY FUNNEL LIQUID-LIQUID EXTRACTION SW846-3510B			
Analyst: B. WOOD	Analysis Date: 31-AUG-99	Instrument: PREP	Test: P230.1.0

Parameter	Result	Det. Limit	Units
WET WEIGHT RESULTS			
INITIAL WEIGHT OR VOLUME	940		mL
FINAL VOLUME	5		mL

PCB AROCLORS BY GAS CHROMATOGRAPHY/ECD SW846-8082			
Analyst: S. BRYAN	Analysis Date: 01-SEP-99	Instrument: GC/ECD	Test: 0301.7.0
Prep: PCB SEPARATORY FUNNEL LIQUID-LIQUID EXTRACTION SW846-3510B P230.1.0			

Parameter	Result	Det. Limit	Units
WET WEIGHT RESULTS			
PCB AROCLOR 1016	BDL	0.10	ug/L
PCB AROCLOR 1221	BDL	0.50	ug/L
PCB AROCLOR 1232	BDL	0.10	ug/L
PCB AROCLOR 1242	0.11	0.10	ug/L
PCB AROCLOR 1248	BDL	0.10	ug/L
PCB AROCLOR 1254	BDL	0.10	ug/L
PCB AROCLOR 1260	BDL	0.10	ug/L
PCB AROCLOR 1262	BDL	0.10	ug/L
... SURROGATE RECOVERY			
----- DECACHLOROBIPHENYL (DCB)	86.0		% Rec

TOTAL PCB CALCULATION HL13			
Analyst: S. BRYAN	Analysis Date: 01-SEP-99	Instrument: GC/ECD	Test: 0301.3.0

Parameter	Result	Det. Limit	Units

Parameter	Result	Det. Limit	Units
WET WEIGHT RESULTS TOTAL PCBS	0.11	0.10	ug/L

TOTAL SUSPENDED SOLIDS EPA 160.2

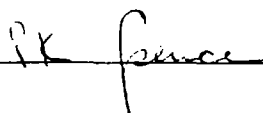
Analyst: T. BYRNE

Analysis Date: 31-AUG-99 13:00

Test: G403.7.0

Parameter	Result	Det. Limit	Units
WET WEIGHT RESULTS SUSPENDED SOLIDS	170	1	mg/L

Sample Comments

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Service Location HERITAGE ENVIRONMENTAL SERVICES, LLC COMMERCIAL LABORATORY OPERATIONS 7901 W. MORRIS ST. INDIANAPOLIS, IN 46231 (317)243-8304	Received	Project	Lab ID
	27-AUG-99	4602	A493879
	Complete	PO Number	
	10-SEP-99	
	Printed	Sampled	
	10-SEP-99	25-AUG-99 15:15	

Report To JIM PATRICK CBS CORPORATION ONE CITY CENTRE - SUITE 210 P.O. BOX 997 BLOOMINGTON, IN 47404-0997	Bill To ACCOUNTS PAYABLE CBS CORPORATION ONE CITY CENTRE - SUITE 210 PO BOX 997 BLOOMINGTON, IN 47402-0997
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CLIENT ID: BD9004 MATRIX: WS SITE: BENNETT'S DUMP	Sample Description
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PCB SEPARATORY FUNNEL LIQUID-LIQUID EXTRACTION SW846-3510B			
Analyst: B. WOOD	Analysis Date: 31-AUG-99	Instrument: PREP	Test: P230.1.0

Parameter	Result	Det. Limit	Units
WET WEIGHT RESULTS			
INITIAL WEIGHT OR VOLUME	960		mL
FINAL VOLUME	5		mL

PCB AROCLORS BY GAS CHROMATOGRAPHY/ECD SW846-8082			
Analyst: S. BRYAN	Analysis Date: 01-SEP-99	Instrument: GC/ECD	Test: 0301.7.0
Prep: PCB SEPARATORY FUNNEL LIQUID-LIQUID EXTRACTION SW846-3510B P230.1.0			

Parameter	Result	Det. Limit	Units
WET WEIGHT RESULTS			
PCB AROCLOR 1016	BDL	0.10	ug/L
PCB AROCLOR 1221	BDL	0.50	ug/L
PCB AROCLOR 1232	BDL	0.10	ug/L
PCB AROCLOR 1242	BDL	0.10	ug/L
PCB AROCLOR 1248	BDL	0.10	ug/L
PCB AROCLOR 1254	BDL	0.10	ug/L
PCB AROCLOR 1260	BDL	0.10	ug/L
PCB AROCLOR 1262	BDL	0.10	ug/L
...			
SURROGATE RECOVERY			
----- DECACHLOROBIPHENYL (DCB)	96.0		% Rec

TOTAL PCB CALCULATION HLI3			
Analyst: S. BRYAN	Analysis Date: 01-SEP-99	Instrument: GC/ECD	Test: 0301.3.0

Parameter	Result	Det. Limit	Units

Parameter	Result	Det. Limit	Units
WET WEIGHT RESULTS TOTAL PCBS	BDL	0.10	ug/L

TOTAL SUSPENDED SOLIDS EPA 160.2

Analyst: T. BYRNE

Analysis Date: 31-AUG-99 13:00

Test: G403.7.0

Parameter	Result	Det. Limit	Units
WET WEIGHT RESULTS SUSPENDED SOLIDS	5	1	mg/L

Sample Comments*BDL Below Detection Limit**Sample was received on ice.**Sample chain of custody number 86605.**This Certificate shall not be reproduced, except in full,
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11 STANWIX STREET, PITTSBURG, PA 15222-1384*

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Service Location HERITAGE ENVIRONMENTAL SERVICES, LLC COMMERCIAL LABORATORY OPERATIONS 7901 W. MORRIS ST. INDIANAPOLIS, IN 46231 (317)243-8304	Received	Project	Lab ID
	27-AUG-99	4602	A493880
	Complete	PO Number	
	10-SEP-99	
	Printed	Sampled	
	10-SEP-99	25-AUG-99 15:30	

Report To JIM PATRICK CBS CORPORATION ONE CITY CENTRE - SUITE 210 P.O. BOX 997 BLOOMINGTON, IN 47404-0997	Bill To ACCOUNTS PAYABLE CBS CORPORATION ONE CITY CENTRE - SUITE 210 PO BOX 997 BLOOMINGTON, IN 47402-0997
Sample Description CLIENT ID: BD9005 MATRIX: WS SITE: BENNETT'S DUMP	

PCB SEPARATORY FUNNEL LIQUID-LIQUID EXTRACTION SW846-3510B			
Analyst: B. WOOD	Analysis Date: 31-AUG-99	Instrument: PREP	Test: P230.1.0
Parameter	Result	Det. Limit	Units
WET WEIGHT RESULTS			
INITIAL WEIGHT OR VOLUME	850		mL
FINAL VOLUME	5		mL

PCB AROCLORS BY GAS CHROMATOGRAPHY/ECD SW846-8082			
Analyst: S. BRYAN	Analysis Date: 01-SEP-99	Instrument: GC/ECD	Test: 0301.7.0
Prep: PCB SEPARATORY FUNNEL LIQUID-LIQUID EXTRACTION SW846-3510B P230.1.0			
Parameter	Result	Det. Limit	Units
WET WEIGHT RESULTS			
PCB AROCLOR 1016	BDL	0.10	ug/L
PCB AROCLOR 1221	BDL	0.50	ug/L
PCB AROCLOR 1232	BDL	0.10	ug/L
PCB AROCLOR 1242	BDL	0.10	ug/L
PCB AROCLOR 1248	BDL	0.10	ug/L
PCB AROCLOR 1254	BDL	0.10	ug/L
PCB AROCLOR 1260	BDL	0.10	ug/L
PCB AROCLOR 1262	BDL	0.10	ug/L
...			
SURROGATE RECOVERY			

DECACHLOROBIPHENYL (DCB)	88.0		% Rec

TOTAL PCB CALCULATION HLI3			
Analyst: S. BRYAN	Analysis Date: 01-SEP-99	Instrument: GC/ECD	Test: 0301.3.0
Parameter	Result	Det. Limit	Units

Parameter	Result	Det. Limit	Units
WET WEIGHT RESULTS TOTAL PCBS	BDL	0.10	ug/L

TOTAL SUSPENDED SOLIDS EPA 160.2

Analyst: T. BYRNE

Analysis Date: 31-AUG-99 13:00

Test: G403.7.0

Parameter	Result	Det. Limit	Units
WET WEIGHT RESULTS SUSPENDED SOLIDS	35	1	mg/L

Sample Comments

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C E R T I F I C A T E O F A N A L Y S I S

Service Location HERITAGE ENVIRONMENTAL SERVICES, LLC COMMERCIAL LABORATORY OPERATIONS 7901 W. MORRIS ST. INDIANAPOLIS, IN 46231 (317)243-8304	Received	Project	Lab ID
	27-AUG-99	4602	A493881
	Complete	PO Number	
	10-SEP-99	
	Printed	Sampled	
	10-SEP-99	25-AUG-99 15:40	

Report To JIM PATRICK CBS CORPORATION ONE CITY CENTRE - SUITE 210 P.O. BOX 997 BLOOMINGTON, IN 47404-0997	Bill To ACCOUNTS PAYABLE CBS CORPORATION ONE CITY CENTRE - SUITE 210 PO BOX 997 BLOOMINGTON, IN 47402-0997
Sample Description CLIENT ID: BD9006 MATRIX: WS SITE: BENNETT'S DUMP	

PCB SEPARATORY FUNNEL LIQUID-LIQUID EXTRACTION SW846-3510B			
Analyst: B. WOOD	Analysis Date: 31-AUG-99	Instrument: PREP	Test: P230.1.0
Parameter	Result	Det. Limit	Units
WET WEIGHT RESULTS			
INITIAL WEIGHT OR VOLUME	940		mL
FINAL VOLUME	5		mL

PCB AROCLORS BY GAS CHROMATOGRAPHY/ECD SW846-8082			
Analyst: S. BRYAN	Analysis Date: 01-SEP-99	Instrument: GC/ECD	Test: 0301.7.0
Prep: PCB SEPARATORY FUNNEL LIQUID-LIQUID EXTRACTION SW846-3510B P230.1.0			
Parameter	Result	Det. Limit	Units
WET WEIGHT RESULTS			
PCB AROCLOR 1016	BDL	0.10	ug/L
PCB AROCLOR 1221	BDL	0.50	ug/L
PCB AROCLOR 1232	BDL	0.10	ug/L
PCB AROCLOR 1242	0.14	0.10	ug/L
PCB AROCLOR 1248	BDL	0.10	ug/L
PCB AROCLOR 1254	BDL	0.10	ug/L
PCB AROCLOR 1260	BDL	0.10	ug/L
PCB AROCLOR 1262	BDL	0.10	ug/L
... SURROGATE RECOVERY ----- DECACHLOROBIPHENYL (DCB)			
	98.0		% Rec
AROCLOR 1242 PATTERN HIGHLY DEGRADED			

TOTAL PCB CALCULATION HLI3			
Analyst: S. BRYAN	Analysis Date: 01-SEP-99	Instrument: GC/ECD	Test: 0301.3.0

Parameter	Result	Det. Limit	Units
WET WEIGHT RESULTS TOTAL PCBS	0.14	0.10	ug/L

TOTAL SUSPENDED SOLIDS EPA 160.2

Analyst: T. BYRNE

Analysis Date: 31-AUG-99 13:00

Test: G403.7.0

Parameter	Result	Det. Limit	Units
WET WEIGHT RESULTS SUSPENDED SOLIDS	5	1	mg/L

Sample Comments*BDL Below Detection Limit**Sample was received on ice.**Sample chain of custody number 86605.**This Certificate shall not be reproduced, except in full,
without the written approval of the lab.**Additional copies of this report sent to:
RUSS CEPKO, CBS CORPORATION
11 STANWIX STREET, PITTSBURG, PA 15222-1384*Approved: SK Prince

C E R T I F I C A T E O F A N A L Y S I S

Service Location HERITAGE ENVIRONMENTAL SERVICES, LLC COMMERCIAL LABORATORY OPERATIONS 7901 W. MORRIS ST. INDIANAPOLIS, IN 46231 (317)243-8304	Received	Project	Lab ID
	27-AUG-99	4602	A493882
	Complete	PO Number	
	10-SEP-99	
	Printed	Sampled	
	10-SEP-99	26-AUG-99 14:50	

Report To	Bill To
JIM PATRICK CBS CORPORATION ONE CITY CENTRE - SUITE 210 P.O. BOX 997 BLOOMINGTON, IN 47404-0997	ACCOUNTS PAYABLE CBS CORPORATION ONE CITY CENTRE - SUITE 210 PO BOX 997 BLOOMINGTON, IN 47402-0997
Sample Description	
CLIENT ID: BD9007 MATRIX: WG SITE: BENNETT'S DUMP	

PCB SEPARATORY FUNNEL LIQUID-LIQUID EXTRACTION SW846-3510B			
Analyst: B. WOOD	Analysis Date: 31-AUG-99	Instrument: PREP	Test: P230.1.0
Parameter	Result	Det. Limit	Units
WET WEIGHT RESULTS			
INITIAL WEIGHT OR VOLUME	1000		mL
FINAL VOLUME	5		mL

PCB AROCLORS BY GAS CHROMATOGRAPHY/ECD SW846-8082			
Analyst: S. BRYAN	Analysis Date: 02-SEP-99	Instrument: GC/ECD	Test: 0301.7.0
Prep: PCB SEPARATORY FUNNEL LIQUID-LIQUID EXTRACTION SW846-3510B P230.1.0			
Parameter	Result	Det. Limit	Units
WET WEIGHT RESULTS			
PCB AROCLOR 1016	BDL	0.10	ug/L
PCB AROCLOR 1221	BDL	0.50	ug/L
PCB AROCLOR 1232	BDL	0.10	ug/L
PCB AROCLOR 1242	BDL	0.10	ug/L
PCB AROCLOR 1248	BDL	0.10	ug/L
PCB AROCLOR 1254	BDL	0.10	ug/L
PCB AROCLOR 1260	BDL	0.10	ug/L
PCB AROCLOR 1262	BDL	0.10	ug/L
...			
SURROGATE RECOVERY			

DECACHLOROBIPHENYL (DCB)	80.0		% Rec

TOTAL PCB CALCULATION HLI3			
Analyst: S. BRYAN	Analysis Date: 02-SEP-99	Instrument: GC/ECD	Test: 0301.3.0
Parameter	Result	Det. Limit	Units

Parameter	Result	Det. Limit	Units
WET WEIGHT RESULTS TOTAL PCBS	BDL	0.10	ug/L

TOTAL SUSPENDED SOLIDS EPA 160.2

Analyst: T. BYRNE

Analysis Date: 31-AUG-99 13:00

Test: G403.7.0

Parameter	Result	Det. Limit	Units
WET WEIGHT RESULTS SUSPENDED SOLIDS	41	1	mg/L

Sample Comments

*BDL Below Detection Limit**Sample was received on ice.**Sample chain of custody number 86605.**This Certificate shall not be reproduced, except in full,
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C E R T I F I C A T E O F A N A L Y S I S

Service Location HERITAGE ENVIRONMENTAL SERVICES, LLC COMMERCIAL LABORATORY OPERATIONS 7901 W. MORRIS ST. INDIANAPOLIS, IN 46231 (317)243-8304	Received	Project	Lab ID
	27-AUG-99	4602	A493883
	Complete	PO Number	
	10-SEP-99	
	Printed	Sampled	
	10-SEP-99	26-AUG-99 14:50	

Report To JIM PATRICK CBS CORPORATION ONE CITY CENTRE - SUITE 210 P.O. BOX 997 BLOOMINGTON, IN 47404-0997	Bill To ACCOUNTS PAYABLE CBS CORPORATION ONE CITY CENTRE - SUITE 210 PO BOX 997 BLOOMINGTON, IN 47402-0997
Sample Description CLIENT ID: BD9008 MATRIX: WG SITE: BENNETT'S DUMP	

PCB SEPARATORY FUNNEL LIQUID-LIQUID EXTRACTION SW846-3510B			
Analyst: B. WOOD	Analysis Date: 31-AUG-99	Instrument: PREP	Test: P230.1.0
Parameter	Result	Det. Limit	Units
WET WEIGHT RESULTS			
INITIAL WEIGHT OR VOLUME	950		mL
FINAL VOLUME	5		mL

PCB AROCLORS BY GAS CHROMATOGRAPHY/ECD SW846-8082			
Analyst: S. BRYAN	Analysis Date: 01-SEP-99	Instrument: GC/ECD	Test: Q301.7.0
Prep: PCB SEPARATORY FUNNEL LIQUID-LIQUID EXTRACTION SW846-3510B P230.1.0			
Parameter	Result	Det. Limit	Units
WET WEIGHT RESULTS			
PCB AROCLOR 1016	BDL	0.10	ug/L
PCB AROCLOR 1221	BDL	0.50	ug/L
PCB AROCLOR 1232	BDL	0.10	ug/L
PCB AROCLOR 1242	BDL	0.10	ug/L
PCB AROCLOR 1248	BDL	0.10	ug/L
PCB AROCLOR 1254	BDL	0.10	ug/L
PCB AROCLOR 1260	BDL	0.10	ug/L
PCB AROCLOR 1262	BDL	0.10	ug/L

SURROGATE RECOVERY			

DECACHLOROBIPHENYL (DCB)	104.0		% Rec

TOTAL PCB CALCULATION HLI3			
Analyst: S. BRYAN	Analysis Date: 01-SEP-99	Instrument: GC/ECD	Test: Q301.3.0
Parameter	Result	Det. Limit	Units

Parameter	Result	Det. Limit	Units
WET WEIGHT RESULTS TOTAL PCBS	BDL	0.10	ug/L

TOTAL SUSPENDED SOLIDS EPA 160.2			
Analyst: T. BYRNE		Analysis Date: 31-AUG-99 13:00	
Test: G403.7.0			
Parameter	Result	Det. Limit	Units
WET WEIGHT RESULTS SUSPENDED SOLIDS	3	1	mg/L

Sample Comments
<p>BDL Below Detection Limit</p> <p>Sample was received on ice. Sample chain of custody number 86605.</p> <p>This Certificate shall not be reproduced, except in full, without the written approval of the lab.</p> <p>Additional copies of this report sent to: RUSS CEPKO, CBS CORPORATION 11 STANWIX STREET, PITTSBURG, PA 15222-1384</p>

C E R T I F I C A T E O F A N A L Y S I S

Service Location HERITAGE ENVIRONMENTAL SERVICES, LLC COMMERCIAL LABORATORY OPERATIONS 7901 W. MORRIS ST. INDIANAPOLIS, IN 46231 (317)243-8304	Received	Project	Lab ID
	12-NOV-99	4602	A500847
	Complete	PO Number	
	22-NOV-99***	
	Printed	Sampled	
	23-NOV-99	11-NOV-99 11:15	

Report To JIM PATRICK CBS CORPORATION ONE CITY CENTRE - SUITE 210 P.O. BOX 997 BLOOMINGTON, IN 47404-0997	Bill To ACCOUNTS PAYABLE CBS CORPORATION ONE CITY CENTRE - SUITE 210 PO BOX 997 BLOOMINGTON, IN 47402-0997
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Sample Description CLIENT ID: BD9009 MATRIX: WG SITE: BENNETT'S DUMP	
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PCB SEPARATORY FUNNEL LIQUID-LIQUID EXTRACTION SW846-3510B			
Analyst: B. WOOD	Analysis Date: 16-NOV-99	Instrument: PREP	Test: P230.1.0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	890		mL
FINAL VOLUME	5		mL

PCB AROCLORS BY GAS CHROMATOGRAPHY/ECD SW846-8082			
Analyst: M. KEEZER	Analysis Date: 18-NOV-99	Instrument: GC/ECD	Test: Q301.7.0
Prep: PCB SEPARATORY FUNNEL LIQUID-LIQUID EXTRACTION SW846-3510B P230.1.0			

Parameter	Result	Det. Limit	Units
PCB AROCLOR 1016	BDL	0.10	ug/L
PCB AROCLOR 1221	BDL	0.50	ug/L
PCB AROCLOR 1232	BDL	0.10	ug/L
PCB AROCLOR 1242	0.13	0.10	ug/L
PCB AROCLOR 1248	BDL	0.10	ug/L
PCB AROCLOR 1254	BDL	0.10	ug/L
PCB AROCLOR 1260	BDL	0.10	ug/L
PCB AROCLOR 1262	BDL	0.10	ug/L
... SURROGATE RECOVERY			
----- DECACHLOROBIPHENYL (DCB)	112.0		% Rec

TOTAL PCB CALCULATION HLI3			
Analyst: M. KEEZER	Analysis Date: 18-NOV-99	Instrument: GC/ECD	Test: Q301.3.0

Parameter	Result	Det. Limit	Units
TOTAL PCBs	0.13	0.10	ug/L

TOTAL PCB DETECTION LIMIT DOES NOT INCLUDE AROCLOR 1221

TOTAL SUSPENDED SOLIDS EPA 160.2

Analyst: T. BYRNE

Analysis Date: 15-NOV-99 14:50

Test: G403.7.0

Parameter	Result	Det. Limit	Units
SUSPENDED SOLIDS	16	1	mg/L

Sample Comments

*BDL Below Detection Limit**Sample was received on ice.**Sample chain of custody number 86618.**This Certificate shall not be reproduced, except in full,
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C E R T I F I C A T E O F A N A L Y S I S

Service Location HERITAGE ENVIRONMENTAL SERVICES, LLC COMMERCIAL LABORATORY OPERATIONS 7901 W. MORRIS ST. INDIANAPOLIS, IN 46231 (317)243-8304	Received 12-NOV-99	Project 4602	Lab ID A500840
	Complete 22-NOV-99	PO Number***	
	Printed 23-NOV-99	Sampled 11-NOV-99 13:50	

Report To JIM PATRICK CBS CORPORATION ONE CITY CENTRE - SUITE 210 P.O. BOX 997 BLOOMINGTON, IN 47404-0997	Bill To ACCOUNTS PAYABLE CBS CORPORATION ONE CITY CENTRE - SUITE 210 PO BOX 997 BLOOMINGTON, IN 47402-0997
Sample Description CLIENT ID: BD9010 MATRIX: WG SITE: BENNETT'S DUMP	

PCB SEPARATORY FUNNEL LIQUID-LIQUID EXTRACTION SW846-3510B			
Analyst: M. WRIGHT	Analysis Date: 16-NOV-99	Instrument: PREP	Test: P230.1.0
Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	1000		mL
FINAL VOLUME	5		mL

PCB AROCLORS BY GAS CHROMATOGRAPHY/ECD SW846-8082			
Analyst: M. KEEZER	Analysis Date: 18-NOV-99	Instrument: GC/ECD	Test: 0301.7.0
Prep: PCB SEPARATORY FUNNEL LIQUID-LIQUID EXTRACTION SW846-3510B P230.1.0			
Parameter	Result	Det. Limit	Units
PCB AROCLOR 1016	BDL	0.50	ug/L
PCB AROCLOR 1221	7.0	2.5	ug/L
PCB AROCLOR 1232	BDL	0.50	ug/L
PCB AROCLOR 1242	BDL	0.50	ug/L
PCB AROCLOR 1248	BDL	0.50	ug/L
PCB AROCLOR 1254	BDL	0.50	ug/L
PCB AROCLOR 1260	BDL	0.50	ug/L
PCB AROCLOR 1262	BDL	0.50	ug/L
... SURROGATE RECOVERY			
----- DECACHLOROBIPHENYL (DCB)	130.0		% Rec
1:5 DILUTION AROCLOR 1221 SLIGHTLY DEGRADED.			

TOTAL PCB CALCULATION HLI3			
Analyst: M. KEEZER	Analysis Date: 18-NOV-99	Instrument: GC/ECD	Test: 0301.3.0

Parameter	Result	Det. Limit	Units
TOTAL PCBS	7.0	0.50	ug/L
TOTAL PCB DETECTION LIMIT DOES NOT INCLUDE AROCLOR 1221 1:5 DILUTION			

TOTAL SUSPENDED SOLIDS EPA 160.2			
Analyst: T. BYRNE		Analysis Date: 15-NOV-99 14:50	
		Test: G403.7.0	
Parameter	Result	Det. Limit	Units
SUSPENDED SOLIDS	2	1	mg/L

Sample Comments

BDL Below Detection Limit

Sample was received on ice.

Sample chain of custody number 86618.

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C E R T I F I C A T E O F A N A L Y S I S

Service Location HERITAGE ENVIRONMENTAL SERVICES, LLC COMMERCIAL LABORATORY OPERATIONS 7901 W. MORRIS ST. INDIANAPOLIS, IN 46231 (317)243-8304	Received 12-NOV-99	Project 4602	Lab ID A500841
	Complete 22-NOV-99	PO Number***	
	Printed 23-NOV-99	Sampled 11-NOV-99 13:50	

Report To JIM PATRICK CBS CORPORATION ONE CITY CENTRE - SUITE 210 P.O. BOX 997 BLOOMINGTON, IN 47404-0997	Bill To ACCOUNTS PAYABLE CBS CORPORATION ONE CITY CENTRE - SUITE 210 PO BOX 997 BLOOMINGTON, IN 47402-0997
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CLIENT ID: BD9011 MATRIX: WG SITE: BENNETT'S DUMP	Sample Description
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PCB SEPARATORY FUNNEL LIQUID-LIQUID EXTRACTION SW846-3510B			
Analyst: B. WOOD	Analysis Date: 16-NOV-99	Instrument: PREP	Test: P230.1.0
Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	950		mL
FINAL VOLUME	5		mL

PCB AROCLORS BY GAS CHROMATOGRAPHY/ECD SW846-8082			
Analyst: M. KEEZER	Analysis Date: 18-NOV-99	Instrument: GC/ECD	Test: 0301.7.0
Prep: PCB SEPARATORY FUNNEL LIQUID-LIQUID EXTRACTION SW846-3510B P230.1.0			
Parameter	Result	Det. Limit	Units
PCB AROCLOR 1016	BDL	0.50	ug/L
PCB AROCLOR 1221	6.2	2.5	ug/L
PCB AROCLOR 1232	BDL	0.50	ug/L
PCB AROCLOR 1242	BDL	0.50	ug/L
PCB AROCLOR 1248	BDL	0.50	ug/L
PCB AROCLOR 1254	BDL	0.50	ug/L
PCB AROCLOR 1260	BDL	0.50	ug/L
PCB AROCLOR 1262	BDL	0.50	ug/L
... SURROGATE RECOVERY			
----- DECACHLOROBIPHENYL (DCB)	140		% Rec
AROCLOR 1221 SLIGHTLY DEGRADED. 1:5 DILUTION			

TOTAL PCB CALCULATION HLI3			
Analyst: M. KEEZER	Analysis Date: 18-NOV-99	Instrument: GC/ECD	Test: 0301.3.0

HERITAGE ENVIRONMENTAL SERVICES, LLC

Sample ID: A500841 BD9011

Parameter	Result	Det. Limit	Units
TOTAL PCBS	6.2	0.50	ug/L
TOTAL PCB DETECTION LIMIT DOES NOT INCLUDE AROCLOR 1221 1:5 DILUTION			

TOTAL SUSPENDED SOLIDS EPA 160.2			
Analyst: T. BYRNE		Analysis Date: 15-NOV-99 14:50	
Test: G403.7.0			
SUSPENDED SOLIDS	Parameter	Result	Det. Limit
		BDL	1
			Units
			mg/L

Sample Comments

BDL Below Detection Limit

Sample was received on ice.
Sample chain of custody number 86618.

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C E R T I F I C A T E O F A N A L Y S I S

Service Location HERITAGE ENVIRONMENTAL SERVICES, LLC COMMERCIAL LABORATORY OPERATIONS 7901 W. MORRIS ST. INDIANAPOLIS, IN 46231 (317)243-8304	Received 12-NOV-99	Project 4602	Lab ID A500842
	Complete 22-NOV-99	PO Number***	
	Printed 23-NOV-99	Sampled 11-NOV-99 14:15	

Report To JIM PATRICK CBS CORPORATION ONE CITY CENTRE - SUITE 210 P.O. BOX 997 BLOOMINGTON, IN 47404-0997	Bill To ACCOUNTS PAYABLE CBS CORPORATION ONE CITY CENTRE - SUITE 210 PO BOX 997 BLOOMINGTON, IN 47402-0997
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CLIENT ID: BD9012 MATRIX: WG SITE: BENNETT'S DUMP	Sample Description
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PCB SEPARATORY FUNNEL LIQUID-LIQUID EXTRACTION SW846-3510B			
Analyst: B. WOOD	Analysis Date: 16-NOV-99	Instrument: PREP	Test: P230.1.0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	930		mL
FINAL VOLUME	5		mL

PCB AROCLORS BY GAS CHROMATOGRAPHY/ECD SW846-8082			
Analyst: M. KEEZER	Analysis Date: 18-NOV-99	Instrument: GC/ECD	Test: Q301.7.0
Prep: PCB SEPARATORY FUNNEL LIQUID-LIQUID EXTRACTION SW846-3510B P230.1.0			

Parameter	Result	Det. Limit	Units
PCB AROCLOR 1016	BDL	0.10	ug/L
PCB AROCLOR 1221	BDL	0.50	ug/L
PCB AROCLOR 1232	BDL	0.10	ug/L
PCB AROCLOR 1242	BDL	0.10	ug/L
PCB AROCLOR 1248	BDL	0.10	ug/L
PCB AROCLOR 1254	BDL	0.10	ug/L
PCB AROCLOR 1260	BDL	0.10	ug/L
PCB AROCLOR 1262	BDL	0.10	ug/L
...			
SURROGATE RECOVERY			

DECACHLOROBIPHENYL (DCB)	118		% Rec

TOTAL PCB CALCULATION HLI3			
Analyst: M. KEEZER	Analysis Date: 18-NOV-99	Instrument: GC/ECD	Test: Q301.3.0

Parameter	Result	Det. Limit	Units
TOTAL PCBs	BDL	0.10	ug/L

TOTAL PCB DETECTION LIMIT DOES NOT INCLUDE AROCLOR 1221

TOTAL SUSPENDED SOLIDS EPA 160.2

Analyst: T. BYRNE

Analysis Date: 15-NOV-99 14:50

Test: G403.7.0

Parameter	Result	Det. Limit	Units
SUSPENDED SOLIDS	4	1	mg/L

Sample Comments

BDL Below Detection Limit

Sample was received on ice.

Sample chain of custody number 86618.

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11 STANWIX STREET, PITTSBURG, PA 15222-1384

Rx [Signature]

CERTIFICATE OF ANALYSIS

Service Location HERITAGE ENVIRONMENTAL SERVICES, LLC COMMERCIAL LABORATORY OPERATIONS 7901 W. MORRIS ST. INDIANAPOLIS, IN 46231 (317)243-8304	Received	Project	Lab ID
	12-NOV-99	4602	A500843
	Complete	PO Number	
	22-NOV-99	*****	
	Printed	Sampled	
	23-NOV-99	11-NOV-99 14:30	

Report To JIM PATRICK CBS CORPORATION ONE CITY CENTRE - SUITE 210 P.O. BOX 997 BLOOMINGTON, IN 47404-0997	Bill To ACCOUNTS PAYABLE CBS CORPORATION ONE CITY CENTRE - SUITE 210 PO BOX 997 BLOOMINGTON, IN 47402-0997
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Sample Description CLIENT ID: BD9013 MATRIX: WG SITE: BENNETT'S DUMP	
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PCB SEPARATORY FUNNEL LIQUID-LIQUID EXTRACTION SW846-3510B			
Analyst: M. WRIGHT	Analysis Date: 16-NOV-99	Instrument: PREP	Test: P230.1.0
Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	1000		mL
FINAL VOLUME	5		mL

PCB AROCLORS BY GAS CHROMATOGRAPHY/ECD SW846-8082			
Analyst: M. KEEZER	Analysis Date: 18-NOV-99	Instrument: GC/ECD	Test: 0301.7.0
Prep: PCB SEPARATORY FUNNEL LIQUID-LIQUID EXTRACTION SW846-3510B P230.1.0			
Parameter	Result	Det. Limit	Units
PCB AROCLOR 1016	BDL	0.10	ug/L
PCB AROCLOR 1221	BDL	0.50	ug/L
PCB AROCLOR 1232	BDL	0.10	ug/L
PCB AROCLOR 1242	BDL	0.10	ug/L
PCB AROCLOR 1248	BDL	0.10	ug/L
PCB AROCLOR 1254	BDL	0.10	ug/L
PCB AROCLOR 1260	BDL	0.10	ug/L
PCB AROCLOR 1262	BDL	0.10	ug/L
... SURROGATE RECOVERY			
----- DECACHLOROBIPHENYL (DCB)	104.0		% Rec

TOTAL PCB CALCULATION HLI3			
Analyst: M. KEEZER	Analysis Date: 18-NOV-99	Instrument: GC/ECD	Test: 0301.3.0
Parameter	Result	Det. Limit	Units
TOTAL PCBs	BDL	0.10	ug/L
TOTAL PCB DETECTION LIMIT DOES NOT INCLUDE AROCLOR 1221			

TOTAL SUSPENDED SOLIDS EPA 160.2

Analyst: T. BYRNE

Analysis Date: 15-NOV-99 14:50

Test: G403.7.0

Parameter	Result	Det. Limit	Units
SUSPENDED SOLIDS	6	1	mg/L

Sample Comments

*BDL Below Detection Limit**Sample was received on ice.**Sample chain of custody number 86618.**This Certificate shall not be reproduced, except in full,
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C E R T I F I C A T E O F A N A L Y S I S

Service Location HERITAGE ENVIRONMENTAL SERVICES, LLC COMMERCIAL LABORATORY OPERATIONS 7901 W. MORRIS ST. INDIANAPOLIS, IN 46231 (317)243-8304	Received	Project	Lab ID
	12-NOV-99	4602	A500844
	Complete	PO Number	
	22-NOV-99	*****	
	Printed	Sampled	
	23-NOV-99	11-NOV-99 14:50	

Report To JIM PATRICK CBS CORPORATION ONE CITY CENTRE - SUITE 210 P.O. BOX 997 BLOOMINGTON, IN 47404-0997	Bill To ACCOUNTS PAYABLE CBS CORPORATION ONE CITY CENTRE - SUITE 210 PO BOX 997 BLOOMINGTON, IN 47402-0997
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CLIENT ID: BD9014 MATRIX: WG SITE: BENNETT'S DUMP	Sample Description
---	---------------------------

PCB SEPARATORY FUNNEL LIQUID-LIQUID EXTRACTION SW846-3510B			
Analyst: B. WOOD	Analysis Date: 16-NOV-99	Instrument: PREP	Test: P230.1.0
Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	920		mL
FINAL VOLUME	5		mL

PCB AROCLORS BY GAS CHROMATOGRAPHY/ECD SW846-8082			
Analyst: M. KEEZER	Analysis Date: 18-NOV-99	Instrument: GC/ECD	Test: 0301.7.0
Prep: PCB SEPARATORY FUNNEL LIQUID-LIQUID EXTRACTION SW846-3510B P230.1.0			
Parameter	Result	Det. Limit	Units
PCB AROCLOR 1016	BDL	0.10	ug/L
PCB AROCLOR 1221	BDL	0.50	ug/L
PCB AROCLOR 1232	BDL	0.10	ug/L
PCB AROCLOR 1242	BDL	0.10	ug/L
PCB AROCLOR 1248	BDL	0.10	ug/L
PCB AROCLOR 1254	BDL	0.10	ug/L
PCB AROCLOR 1260	BDL	0.10	ug/L
PCB AROCLOR 1262	BDL	0.10	ug/L
... SURROGATE RECOVERY			
----- DECACHLOROBIPHENYL (DCB)	122.0		% Rec

TOTAL PCB CALCULATION HLI3			
Analyst: M. KEEZER	Analysis Date: 18-NOV-99	Instrument: GC/ECD	Test: 0301.3.0
Parameter	Result	Det. Limit	Units
TOTAL PCBs	BDL	0.10	ug/L
TOTAL PCB DETECTION LIMIT DOES NOT INCLUDE AROCLOR 1221			

TOTAL SUSPENDED SOLIDS EPA 160.2

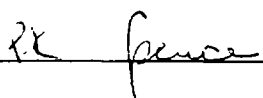
Analyst: T. BYRNE

Analysis Date: 15-NOV-99 14:50

Test: G403.7.0

Parameter	Result	Det. Limit	Units
SUSPENDED SOLIDS	2	1	mg/L

Sample Comments

*BDL Below Detection Limit**Sample was received on ice.**Sample chain of custody number 86618.**This Certificate shall not be reproduced, except in full,
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C E R T I F I C A T E O F A N A L Y S I S

Service Location HERITAGE ENVIRONMENTAL SERVICES, LLC COMMERCIAL LABORATORY OPERATIONS 7901 W. MORRIS ST. INDIANAPOLIS, IN 46231 (317)243-8304	Received	Project	Lab ID
	12-NOV-99	4602	A500845
	Complete	PO Number	
	22-NOV-99***	
	Printed	Sampled	
	23-NOV-99	11-NOV-99 15:00	

Report To	Bill To
JIM PATRICK CBS CORPORATION ONE CITY CENTRE - SUITE 210 P.O. BOX 997 BLOOMINGTON, IN 47404-0997	ACCOUNTS PAYABLE CBS CORPORATION ONE CITY CENTRE - SUITE 210 PO BOX 997 BLOOMINGTON, IN 47402-0997
Sample Description	
CLIENT ID: BD9015 MATRIX: WG SITE: BENNETT'S DUMP	

PCB SEPARATORY FUNNEL LIQUID-LIQUID EXTRACTION SW846-3510B			
Analyst: B. WOOD	Analysis Date: 16-NOV-99	Instrument: PREP	Test: P230.1.0
Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	950		mL
FINAL VOLUME	5		mL

PCB AROCLORS BY GAS CHROMATOGRAPHY/ECD SW846-8082			
Analyst: M. KEEZER	Analysis Date: 18-NOV-99	Instrument: GC/ECD	Test: 0301.7.0
Prep: PCB SEPARATORY FUNNEL LIQUID-LIQUID EXTRACTION SW846-3510B P230.1.0			
Parameter	Result	Det. Limit	Units
PCB AROCLOR 1016	BDL	0.10	ug/L
PCB AROCLOR 1221	BDL	0.50	ug/L
PCB AROCLOR 1232	BDL	0.10	ug/L
PCB AROCLOR 1242	BDL	0.10	ug/L
PCB AROCLOR 1248	BDL	0.10	ug/L
PCB AROCLOR 1254	BDL	0.10	ug/L
PCB AROCLOR 1260	BDL	0.10	ug/L
PCB AROCLOR 1262	BDL	0.10	ug/L
SURROGATE RECOVERY			

DECACHLOROBIPHENYL (DCB)	106.0		% Rec

TOTAL PCB CALCULATION HLI3			
Analyst: M. KEEZER	Analysis Date: 18-NOV-99	Instrument: GC/ECD	Test: 0301.3.0
Parameter	Result	Det. Limit	Units
TOTAL PCBs	BDL	0.10	ug/L
TOTAL PCB DETECTION LIMIT DOES NOT INCLUDE AROCLOR 1221			

TOTAL SUSPENDED SOLIDS EPA 160.2

Analyst: T. BYRNE

Analysis Date: 15-NOV-99 14:50

Test: G403.7.0

Parameter	Result	Det. Limit	Units
SUSPENDED SOLIDS	BDL	1	mg/L

Sample Comments

BDL Below Detection Limit

Sample was received on ice.

Sample chain of custody number 86618.

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without the written approval of the lab.

The sample results relate only to the analytes of interest tested
or to the sample as received by the lab.

Additional copies of this report sent to:
RUSS CEPKO, CBS CORPORATION
11 STANWIX STREET, PITTSBURG, PA 15222-1384

C E R T I F I C A T E O F A N A L Y S I S

Service Location HERITAGE ENVIRONMENTAL SERVICES, LLC COMMERCIAL LABORATORY OPERATIONS 7901 W. MORRIS ST. INDIANAPOLIS, IN 46231 (317)243-8304	Received	Project	Lab ID
	12-NOV-99	4602	A500846
	Complete	PO Number	
	22-NOV-99***	
	Printed	Sampled	
	23-NOV-99	11-NOV-99 09:45	

Report To JIM PATRICK CBS CORPORATION ONE CITY CENTRE - SUITE 210 P.O. BOX 997 BLOOMINGTON, IN 47404-0997	Bill To ACCOUNTS PAYABLE CBS CORPORATION ONE CITY CENTRE - SUITE 210 PO BOX 997 BLOOMINGTON, IN 47402-0997
Sample Description CLIENT ID: BD9016 MATRIX: WG SITE: BENNETT'S DUMP	

PCB SEPARATORY FUNNEL LIQUID-LIQUID EXTRACTION SW846-3510B Analyst: B. WOOD Analysis Date: 16-NOV-99 Instrument: PREP Test: P230.1.0			
Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	950		mL
FINAL VOLUME	5		mL

PCB AROCLORS BY GAS CHROMATOGRAPHY/ECD SW846-8082 Analyst: M. KEEZER Analysis Date: 18-NOV-99 Instrument: GC/ECD Test: 0301.7.0 Prep: PCB SEPARATORY FUNNEL LIQUID-LIQUID EXTRACTION SW846-3510B P230.1.0			
Parameter	Result	Det. Limit	Units
PCB AROCLOR 1016	BDL	0.10	ug/L
PCB AROCLOR 1221	BDL	0.50	ug/L
PCB AROCLOR 1232	BDL	0.10	ug/L
PCB AROCLOR 1242	BDL	0.10	ug/L
PCB AROCLOR 1248	BDL	0.10	ug/L
PCB AROCLOR 1254	BDL	0.10	ug/L
PCB AROCLOR 1260	BDL	0.10	ug/L
PCB AROCLOR 1262	BDL	0.10	ug/L
... SURROGATE RECOVERY			
----- DECACHLOROBIPHENYL (DCB)	112.0		% Rec

TOTAL PCB CALCULATION HLI3 Analyst: M. KEEZER Analysis Date: 18-NOV-99 Instrument: GC/ECD Test: 0301.3.0			
Parameter	Result	Det. Limit	Units
TOTAL PCBs	BDL	0.10	ug/L
TOTAL PCB DETECTION LIMIT DOES NOT INCLUDE AROCLOR 1221			

TOTAL SUSPENDED SOLIDS EPA 160.2

Analyst: T. BYRNE

Analysis Date: 15-NOV-99 14:50

Test: G403.7.0

Parameter	Result	Det. Limit	Units
SUSPENDED SOLIDS	22	1	mg/L

Sample Comments

BDL Below Detection Limit

Sample was received on ice.

Sample chain of custody number 86618.

This Certificate shall not be reproduced, except in full,
without the written approval of the lab.

The sample results relate only to the analytes of interest tested
or to the sample as received by the lab.

Additional copies of this report sent to:

RUSS CEPKO, CBS CORPORATION

11 STANWIX STREET, PITTSBURG, PA 15222-1384

Attachment 3

Field Log Sheets

WESTINGHOUSE ELECTRIC CORPORATION
GROUND WATER SAMPLING FIELD LOG
BLOOMINGTON, INDIANA

Site BD Well No. 6I
Sampling Purpose PNE-EX
Date/Time: 8/25/99 In 1345 Out 1440
Sampling Personnel MM NJ
HNU Background _____ Well NA Weather Sunny 80

I. Well Information

Reference Pt. (casing & height above grade) TOP PVC TIC
Well Diameter 2" Well Depth from RP 14.33
Water Depth from RP 5.26

II. Well Volume Information

Length of Water Column 9.07 Volume of Water Column 1.45 gal

III. Evacuation Information

Evacuation Method DEDICATED BAILER
Redline ✓ Calibration Stds: 7 10

Purge Volume (Gals)	T	pH	SpC	Time
<u>1.5</u>	<u>16.8</u>	<u>6.43</u>	<u>587</u>	<u>1419</u>
<u>2.7</u>	<u>15.9</u>	<u>6.91</u>	<u>583</u>	<u>1421</u>
<u>3.0</u>	<u>15.2</u>	<u>7.02</u>	<u>585</u>	<u>1423</u>
<u>4.0</u>	<u>15.1</u>	<u>7.08</u>	<u>584</u>	<u>1425</u>

IV. Sample Data

Container(s)	Preservation	Time Collected	Sample ID No.	Analysis
<u>2</u>	<u>ICE</u>	<u>1430</u>	<u>BD 9002</u>	<u>PUB</u>
<u>2</u>	<u>ICE</u>	<u>1430</u>	<u>BD 9003</u>	<u>PUB</u>

V. Field Measurements

Temp. 15.1 pH 7.08 SpC 584 Film NITE

VI. Remarks/Miscellaneous Observations IRON / YELLOW MUD

DUP. TAKEN

VII. Sample Destination

EMS Laboratory Via Courier By _____

W.D. MCCOY
Field Services Coordinator

WESTINGHOUSE ELECTRIC CORPORATION
GROUND WATER SAMPLING FIELD LOG
BLOOMINGTON, INDIANA

Site BD Well No. 6D
Sampling Purpose Pre-ex
Date/Time: 8/25/99 In 1345 Out 1440
Sampling Personnel HM NV
HNU Background _____ Well NA Weather SUNNY DB

I. Well Information

Reference Pt. (casing & height above grade) TIC PVC
Well Diameter 2" Well Depth from RP 34.11
Water Depth from RP 4.65

II. Well Volume Information

Length of Water Column 29.4 L Volume of Water Column 4.7 gm

III. Evacuation Information

Evacuation Method DEDICATED WATER
Redline ☒ Calibration Stds: ☒ 7 ☒ 10
Purge Volume (Gals) T pH SpC Time
5 14.3 6.9 719 14:08
6 (DRY) 14.0 6.9 607 14:10

IV. Sample Data

Container(s) 2 Preservation ice Time Collected 16:15 Sample ID No. BD 9001 Analysis PCB

V. Field Measurements

Temp. 14.0 pH 6.9 SpC 607 Film NONE

VI. Remarks/Miscellaneous Observations CLEAR TO SLIGHT MILKY

VII. Sample Destination

EMS Laboratory Via Courier By _____

M.P. W. [Signature]
Field Services Coordinator

WESTINGHOUSE ELECTRIC CORPORATION
GROUND WATER SAMPLING FIELD LOG
BLOOMINGTON, INDIANA

Site BENNETTS Well No. 3
Sampling Purpose Pre-excavation
Date/Time: 8/26/99 In 12:15 Out 15:00
Sampling Personnel N. Vaughan M. McCann
HNu Background _____ Well NA Weather cloudy, 75°

I. Well Information

Reference Pt. (casing & height above grade) TOC
Well Diameter 5 1/2" Well Depth from RP 43.63
Water Depth from RP 8.85

II. Well Volume Information

Length of Water Column 34.78 Volume of Water Column 45 gal

III. Evacuation Information

Evacuation Method BLADDER

Redline	Calibration Stds:	7	10	
Purge Volume (Gals)	T	pH	SpC	Time
48	13.5	7.1	439	1443
49	13.4	7.1	440	1445
50	13.3	7.1	441	1446

IV. Sample Data

Container(s)	Preservation	Time Collected	Sample ID No.	Analysis
2	ICE	1450	BD9007	PCB
2	ICE	1450	BD9008	PCB

V. Field Measurements

Temp. 13.3 pH 7.1 SpC 441 Film NONE

VI. Remarks/Miscellaneous Observations SLIGHTLY TURBID

BD9008 is Field Blank
BD9007 is Matrix Spike

VII. Sample Destination

EMS Laboratory Via Courier By _____

M.R. McCann

Field Services Coordinator

74

Location _____

Date

8/25/99

Project / Client _____

Bennetts Dmp 8/25/99 1348 hrs

MW-6I DTW 5.26' DTB 14.33'

MW-6D DTW 4.65' DTB 34.11'

MW-3 DTW 8.85 DTB 43.63

SEEPS ARE DRY, SPRING IS DRY

BD 9004 IS DOWNSTREAM STOUTS CR.

BD 9005 IS UPSTREAM STOUTS CR.

DOWNST. STOUTS CREEK 5:50pm - 10:00pm

PA 7.3 TEMP 21.6 COND 445

2 BUTTERES SAMPLE TIME 1515

UPSTREAM STOUTS CREEK 2 BT. @ 1530 hrs

Plt NA TEMP 21.5 COND 520

FLOW < 1 gpm

WEST BR. STOUTS BD 9006 1540 hr

TEMP 23.4

COND 403

≈ 5-10 gpm MAX AT THE FLOW

WESTINGHOUSE ELECTRIC CORPORATION
GROUND WATER SAMPLING FIELD LOG
BLOOMINGTON, INDIANA

Site BD Well No. 6I
Sampling Purpose POST-REM
Date/Time: 11/11/99 In 10:50 Out 11:25
Sampling Personnel NV, JK
HNU Background _____ Well _____ Weather cloudy, 55°F

I. Well Information

Reference Pt. (casing & height above grade) TOP & PVC (TIC)
Well Diameter 2" Well Depth from RP 14.33'
Water Depth from RP 5.34'

II. Well Volume Information

Length of Water Column 8.99' Volume of Water Column 1.4 gal

III. Evacuation Information

Evacuation Method BLADDER PUMP

Redline	Calibration Stds:		<u>7</u>	<u>10</u>
Purge Volume (Gals)	T	pH	SpC	Time
<u>2.0</u>	<u>14.6</u>	<u>6.5</u>	<u>620</u>	<u>11:08</u>
<u>2.5</u>	<u>14.7</u>	<u>6.9</u>	<u>575</u>	<u>11:10</u>
<u>2.7</u>	<u>14.7</u>	<u>7.0</u>	<u>575</u>	<u>11:11</u>
<u>3.0</u>	<u>14.7</u>	<u>7.1</u>	<u>575</u>	<u>11:12</u>

IV. Sample Data

Container(s)	Preservation	Time Collected	Sample ID No.	Analysis
<u>2</u>	<u>ICE</u>	<u>11:15</u>	<u>BD9009</u>	<u>PCB</u>

V. Field Measurements

Temp. 14.7°C pH 7.1 SpC 575 μ S/cm Film none

VI. Remarks/Miscellaneous Observations slightly milky

VII. Sample Destination

EMS Laboratory Via Carrier By _____

M. Vinyard
Field Services Coordinator

WESTINGHOUSE ELECTRIC CORPORATION
GROUND WATER SAMPLING FIELD LOG
BLOOMINGTON, INDIANA

Site BD Well No. 60D
Sampling Purpose POST-EXC
Date/Time: 11/11/79 In 11:25 Out 14:00
Sampling Personnel UV, JK
HNU Background _____ Well NA Weather cloudy, 55°F

I. Well Information

Reference Pt. (casing & height above grade) TIC PVC
Well Diameter 2" Well Depth from RP 34.1'
Water Depth from RP 4.94

II. Well Volume Information

Length of Water Column 29.17 Volume of Water Column 4.7 gal

III. Evacuation Information

Evacuation Method BLADDER

Redline	Calibration Stds:			
	T	pH	SpC	Time
Purge Volume (Gals)				
4.9	13.1	6.6	610	13:43
5.9	13.1	6.8	603	13:45
7.0	13.1	6.8	603	13:46

IV. Sample Data

Container(s)	Preservation	Time Collected	Sample ID No.	Analysis
2	ICE	13:50	BD9010	PCB
2	ICE	13:50	BD9011	PCB

V. Field Measurements

Temp. 13.1°C pH 6.8 SpC 603 μ S/cm Film none

VI. Remarks/Miscellaneous Observations

clear
SAMPLE ID# BD9011 is dupe

VII. Sample Destination

EMS Laboratory Via Carrier By _____

N. Vaughan
Field Services Coordinator

WESTINGHOUSE ELECTRIC CORPORATION
GROUND WATER SAMPLING FIELD LOG
BLOOMINGTON, INDIANA

Site BD Well No. 3
Sampling Purpose POST-EXC
Date/Time: 11-12-99 In 08:05 Out 09:55
Sampling Personnel NV JK
HNU Background _____ Well NA Weather cloudy, 53°

I. Well Information

Reference Pt. (casing & height above grade) TOC
Well Diameter 5 1/2" Well Depth from RP 43.63'
Water Depth from RP 8.53'

II. Well Volume Information

Length of Water Column 35.1' Volume of Water Column 45 gal

III. Evacuation Information

Evacuation Method BLADDER

Redline	Calibration Stds:			
Purge Volume (Gals)	T	pH	SpC	Time
<u>45</u>	<u>12.7</u>	<u>6.5</u>	<u>443</u>	<u>0938</u>
<u>46</u>	<u>12.7</u>	<u>6.7</u>	<u>444</u>	<u>0940</u>
<u>47</u>	<u>12.8</u>	<u>6.8</u>	<u>445</u>	<u>0942</u>

IV. Sample Data

Container(s)	Preservation	Time Collected	Sample ID No.	Analysis
<u>2</u>	<u>ICE</u>	<u>0945</u>	<u>BD9016</u>	<u>PCB</u>

V. Field Measurements

Temp. 12.8 pH 6.8 SpC 445 Film none

VI. Remarks/Miscellaneous Observations slightly reddish

VII. Sample Destination

EMS Laboratory Via Courier By _____

M. Vaughan
Field Services Coordinator

78

Location

Bennett's Dump

Date

11/11/99

Project / Client

N. Vaughan & J. Krathi sampled
Mon. Wells 6I and 6D in bladder
pumps. Had to replace bladder
pump in 6D.

14:15 Start's Cr., upstream station
Collected grab sample BD9012
Cond 675 μ S/cm Temp. 12.0°C
* Only trickle flow; sample collected at
same pool as August sample.

14:30 Start's Cr., downstream station (in the
Collected grab sample BD9013 (matrix sp.)
Cond 670 μ S/cm Temp. 11.0°C
* Only trickle flow in creek; sampled
from pool.

14:50 W. branch Start's Cr.
Collected grab sample BD9014
Cond 623 μ S/cm Temp. 12.6°C
* V. low flow ~5 gpm

15:00 Took field blank, sample 10
BD9015

N. Vaughan

Attachment 4

Validation Reports for

Laboratory Certificates of Analysis

Validation Results for the November 1999 Bennett's Dump Monitoring Well and Stream Samples

1. Validation of the following samples has been completed:

- o BD 9009-BD 9016

Validation was performed per the requirements for level 4 data in the project QAPjP. This includes a check for; Holding Time, Calibration, Blank Contamination, Precision, Accuracy, and Accuracy of Nominal Reporting Limits against method requirements. Based on this review all method requirements were met and no data qualification flags are recommended for samples BD 9010-BD 9016. It should be noted that the original data package showed potential contamination of the lab blank sample above the contract required detection limit (CRDL). When brought to the lab's attention, they reprinted the blank chromatogram at a smaller scale and recalculated the amount of potential PCBs present as less than the CRDL and also noted that although a few Aroclor peaks were present there is no pattern match for any Aroclor. Sample BD 9009 was quantitated just above the CRDL for Aroclor 1242. It is questionable whether there is really this Aroclor present because of the closeness to the detection limit and the small amount of contamination evident in the lab blank. However, the pattern is more like Aroclor 1242 than the lab blank therefore it may be positive for Aroclor 1242, but the exact quantitation is questionable because of blank contamination. Therefore a "J" flag is recommended.

2. The QAPjP requires an assessment of the overall data quality with respect to Precision, Accuracy, Representativeness, Completeness and Comparability (PARCC).

- Precision and accuracy: Precision and accuracy were assessed by reviewing the lab performance on lab spiked samples, lab spike duplicates and field duplicates. All requirements were met except where noted for sample BD 9009.
- Representativeness: The representativeness requirement involves an assessment of the field sampling and lab analytical techniques. The field sampling locations and techniques as well as lab procedures were in accordance with the approved sampling plan and QAPjP. There were no deviations and the representativeness requirement was met.
- Completeness: The completeness goal for the project was for all project data to be 90% accepted. Completeness is calculated by dividing the total number of acceptable analyses by the total performed. An acceptable analysis is defined as one that conformed to QC protocols and is not rejected. All the noted sample analyses in this batch were accepted so the completeness goal was met.
- Comparability: All the samples taken, analyzed and validated by CBS were taken by CBS sampling crews using the same procedures and analyzed by the same laboratory. Therefore within the samples taken by CBS there are no comparability issues.

Overall, the main objective of the sampling event was to determine if PCBs are present at a concentration of .1 ppb or more. This data is of sufficient quality to satisfy this goal.

Validation Results for the August 1999 Bennett's Dump Monitoring Well and Stream Samples

1. Validation of the following samples has been completed:

- o BD 9001-BD 9008

2. Validation was performed per the requirements for level 4 data in the project QAPjP. This includes a check for; Holding Time, Calibration, Blank Contamination, Precision, Accuracy, and Accuracy of Nominal Reporting Limits against method requirements. Based on this review, the following data qualification flags are recommended:

- Samples BD 9002, 9003, and 9006 results are reported by the lab as between the method detection limit (MCL) and the limit of quantitation (.1 and .3 ppb). They also are not 5 times the quantity of PCBs found in the method blank that itself contains what appear to be PCBs at near the MDL. The level of PCBs reported for these samples is too near the detection limit and not high enough above the method blank to be considered a reliable detection or quantitation. These samples should be flagged "UJ" and reported at the method detection limit of .1 ppb.
- Sample BD 9001 had two liters of liquid submitted. The first liter was extracted/analyzed and yielded a result of 58 ppb, but had very low surrogate recovery. Because of the low surrogate recovery, the lab then extracted/analyzed the second liter. This result was 2.6 ppb. The lab also reported that the two liters of sample were visibly different in that the first sample analyzed had more visible sediment. These samples were taken from the same well and should be considered field duplicates. Given the large PCB discrepancy and visible TSS differences, it appears that the field conditions were not stable during sampling this well. It is recommended that both samples be flagged "J" as estimates since it is not known which analysis is more representative of actual conditions at the well.
- 3. The QAPjP requires an assessment of the overall data quality with respect to Precision, Accuracy, Representativeness, Completeness and Comparability (PARCC).
 - Precision and accuracy: Precision and accuracy were assessed by reviewing the lab performance on lab spiked samples, lab spike duplicates and field duplicates. The PCBs in the method blank calls into question the accuracy of several of the samples as noted above.
 - Representativeness: The representativeness requirement involves an assessment of the field sampling and lab analytical techniques. The field sampling locations and techniques as well as lab procedures were in accordance with the approved sampling plan and QAPjP. The large relative percent deviation between replicates on sample BD 9001 calls into question the representativeness of the sample from this well. It is recommended that the samplers ensure that adequate purge volumes are taken from this well in future sampling to provide stable field parameters and that the level of TSS visibly in the samples stabilizes.
 - Completeness: The completeness goal for the project was for all project data to be 90% accepted. Completeness is calculated by dividing the total number of acceptable analyses by the total performed. An acceptable analysis is defined as one that conformed to QC protocols and is not rejected. All the noted sample analyses in this batch were accepted so the completeness goal was met.
 - Comparability: All the samples taken, analyzed and validated by CBS were taken by CBS

sampling crews using the same procedures and analyzed by the same laboratory. Therefore within the samples taken by CBS there are no comparability issues.

Overall, the main objective of the sampling event was to determine if PCBs are present at a concentration of .1 ppb or more. Because of the level of PCBs potentially in the method blank, this goal was not met for several of the samples as noted above. Additionally, it appears that the results for BD 9001 were not representative of stable aquifer conditions at the well. For the other samples (BD 9004, 5, 7 and 8), this data is of sufficient quality to satisfy this goal.