490466

ISAACSON, ROSENBAUM, WOODS & LEVY, P.C.

ATTORNEYS & COUNSELORS AT LAW

STANTON D. ROSENBAUM
GARY A. WOODS
SAMUEL L. LEVY
STEVEN G. WRIGHT
RICHARD D. GREENGARD
EDWARD T. RAMEY
WILLIAM M. SILBERSTEIN
LAWRENCE J. DONOVAN, JR.
GARY LOZOW
LAWRENCE R. KUETER
JONATHAN H. STEELER

SHELDON E. FRIEDMAN
MARK G. GRUESKIN
GARY A. KLEIMAN
JON R. TANDLER
BARRY PERMUT
NEIL B. OBERFELD
JOHN A. CHANIN
THERESA L. CORRADA
PAMELA A. JOHNSON
BLAIN D. MYHRE
PAULA J. WILLIAMS

MELISSA K. THOMPSON
STACEY STERN CHAPMAN
JESSICA E. JAY
ALISON T. DODSON
LISA D. L. WILLIAMS
DEREK C. WEST
LISA R. BRENNER
BRIAN D. MULQUEEN
T. BARTON FRENCH, JR.
RICHARD A. HARDAWAY
BRADLEY A. BECK

RICHARD L. REICHSTEIN
LISA C. WALTER
BONNIE LARSON-de PAZ

PAUL V. FRANKE SPECIAL COUNSEL
SANDY GAIL NYHOLM OF COUNSEL

LOUIS G. ISAACSON (1910-1993)
CHARLES ROSENBAUM (1901-1973)
SAMUEL M. GOLDBERG (1903-1974)
JOSEPH J. STOLLAR (1946-1984)

RECEIVED
JUN 21 2001

SENDER'S DIRECT DIAL
(303) 256-3986

SENDER'S INTERNET ADDRESS
jsteeler@irwl.com

June 21, 2001

HAND DELIVER
Ms. Dawn Tesorero
Technical Enforcement Program
U.S. Environmental Protection Agency
999 18th Street, Suite 300
Denver, CO 80202-2466

Re: First Request for Information Pursuant to § 104 of CERCLA for the Vasquez Boulevard/I-70 Site, Denver, Colorado

Dear Ms. Tesorero:

On behalf of Pepsi Bottling Group, the attached information is intended to supplement my client's preliminary response dated April 6, 2001, the response dated May 4, 2001, and the supplemental response dated May 16, 2001. Specifically, attached hereto as Attachment 1 is Exhibit 9.g-B to the Response dated May 4, 2001. This Exhibit is responsive to Question 9 of the above-referenced information request. This Exhibit provides additional sampling results of an approximately 14,000 cubic yard soil stockpile located on my client's property. It is anticipated that during or shortly after the week of July2, 2001, this material will be removed from my client's property by Diamond Excavating Inc. After removal, the area will be graded.

This letter is being submitted as a supplement to the previous responses. If you have any questions regarding the enclosure, the soils removal project, or need further information (including further certification), please advise the undersigned.

Very truly yours,

Jonathan H. Steeler

JHS:jkw
Enclosure
493861
cc: David H. Patrick, Esq. (w/encl)

1.0 Project Background

In order to evaluate disposal/recycling options for approximately 14,000 cubic yards of soil stockpiled in the west truck parking area at the Pepsi Bottling Group facility located at 3801 Brighton Blvd., Denver, Colorado 80216, soil samples were collected from the stockpile and analyzed for Full Range Toxicity Characteristic Leaching Procedure (TCLP) including volatile organic compounds (VOCs); semi-volatile organic compounds (SVOCs); RCRA Metals; pesticides, and herbicides.

Five soil samples were submitted for analysis from the stockpile. The sampling project was conducted by Gary E. Johnson and Christopher V. Johnson of Transportation & Industrial Services, Inc., 3772 Puritan Way, Unit # 4, Erie, Colorado 80516 on May 11, 2001.

2.0 Sampling Locations

The stockpile was represented by 5 soil samples collected from 5 soil borings. The boring locations were selected after walking the perimeter and the length and width of the stockpile to determine boring locations that would be representative of the typical makeup of the stockpile. Refer to Figure 1. Sample Location Diagram attached to this report for sample locations relative to the stockpile.

3.0 Sampling Procedure

The soil samples were collected using a stainless steel hand auger with a 1.5 inch diameter sample retrieval device. The hand auger was advanced through the soil at each boring location to a depth of 6 feet below the soil surface into the stockpile. Two samples were obtained from each boring; one from 2-2.5 feet below surface and one from 5.5-6 feet below surface. The 2 auger samples from each boring were placed in a stainless steel bowl and thoroughly mixed with a stainless steel spoon. Three sterile 4-ounce sample jars were filled with soil from the bowl, and the remaining soil in the bowl was placed back into the boring. This procedure was repeated for each boring, thus yielding 5 composite soil samples for analysis. The samples were designated SP-1, SP-2, SP-3, SP-4, and SP-5.

The hand auger, bowl, and spoon were decontaminated after each boring to prevent cross contamination between samples. These items were scrubbed in an Alconox ™ detergent and distilled water solution and then rinsed with distilled water and dried with clean paper towels.

A chain-of-custody was completed and the sample jars were labeled, sealed, and placed in a cooler on ice for shipment to the laboratory. The samples were analyzed by Bodycote Materials Testing Canada, Inc. 121, Boulevard Hymus, Point Claire, Quebec, Canada H9R 1E6. Each composite sample was submitted for Full Range TCLP analysis. The chain-of-custody is included as an attachment to this report.

4.0 Physical Description of Soil Samples

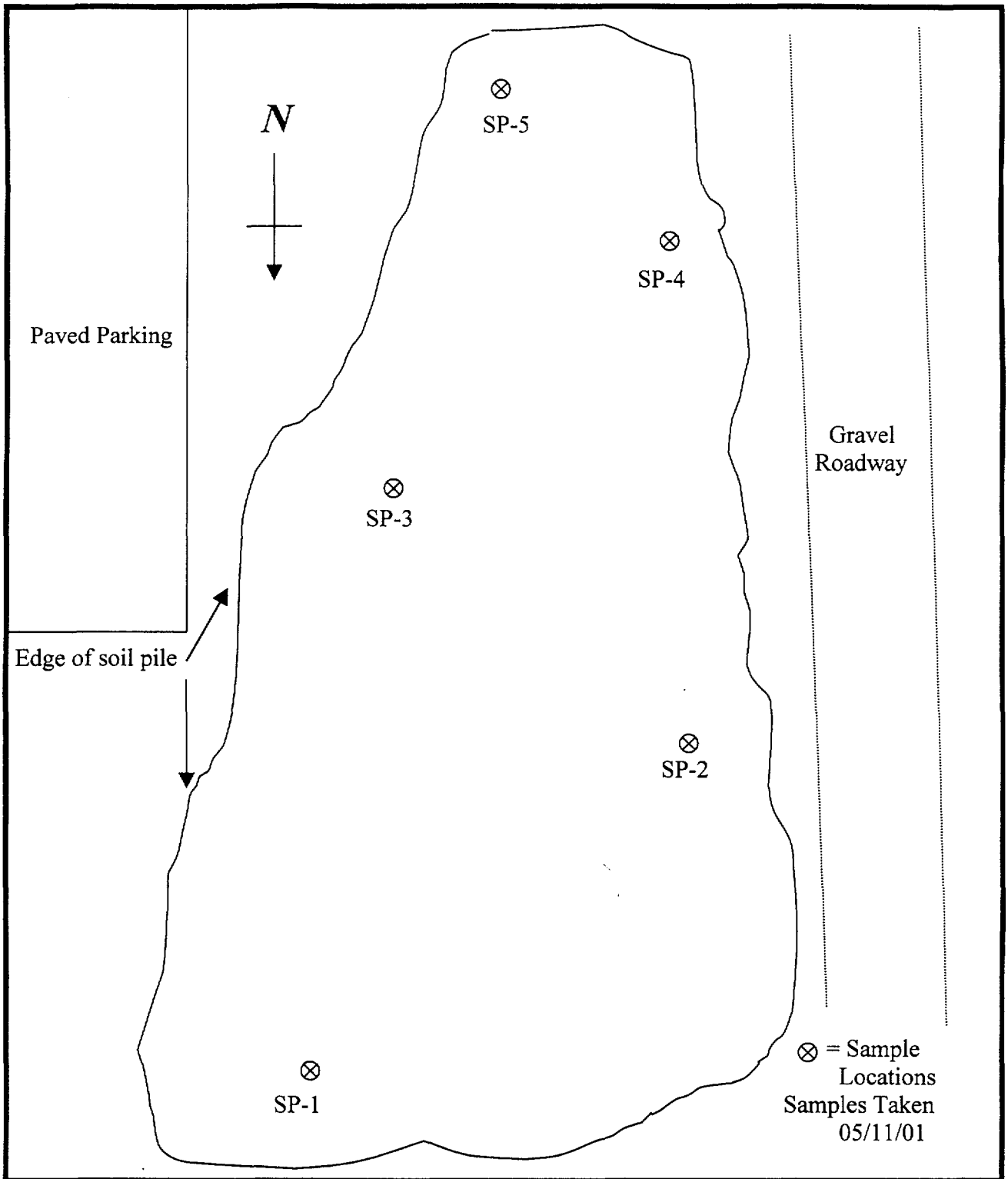
Below are descriptions of the soil samples collected from the stockpile.

Table 1.
Soil Description of Samples Collected on 05/11/01

Sample ID	Soil Description
SP-1	Dark brown loamy sand, well sorted
SP-2	Brown to dark brown dry sand with poorly sorted gravel to ¼ inch diameter
SP-3	Brown to dark brown dry sand with poorly sorted gravel to ¼ inch diameter, some wood pieces to ½ inch diameter, and small pieces of red brick to ½ inch diameter
SP-4	Brown to dark brown dry sand with poorly sorted gravel to ¼ inch diameter
SP-5	Brown to dark brown dry sand with poorly sorted gravel to ½ inch diameter

4.0 Project Photographs

Each boring location was photographed at the start of advancing the boring. Also, each composite sample was photographed in the stainless steel bowl after thorough mixing. These photographs and others documenting the procedures utilized to conduct the sampling project are included as an attachment to this report.



TIS
TRANSPORTATION & INDUSTRIAL SERVICES, INC.

Figure 1
SAMPLE LOCATION DIAGRAM

Pepsi Bottling Group
3801 Brighton Boulevard
Denver, CO 80216

Soil Stockpile Samples
Laboratory Analyses
Denver, Colorado

Constituent	Sample SP-1	Sample SP-2	Sample SP-3	Sample SP-4	Sample SP-5	Hazardous Waste Threshold
Arsenic (mg/l)	0.02	0.05	0.15	0.06	0.03	5.0 mg/l
Barium (mg/l)	0.51	0.81	0.83	0.70	0.97	100 mg/l
Cadmium (mg/l)	BQL	0.09	0.21	0.24	0.12	1.0 mg/l
Copper (mg/l)	0.02	0.12	0.03	0.07	0.05	NA
Nickel (mg/l)	BQL	0.02	0.02	0.03	0.03	NA
Lead (mg/l)	0.01	0.24	0.22	0.15	0.08	5.0 mg/l
Zinc (mg/l)	0.42	2.3	1.1	2.9	2.5	NA
Naphthalene (ug/l)	0.2	BQL	0.3	0.2	1.4	NA
Phenanthrene (ug/l)	BQL	0.2	0.2	0.2	0.2	NA
Anthracene (ug/l)	BQL	0.2	BQL	BQL	BQL	NA
Fluoranthene (ug/l)	0.1	2.4	0.1	0.1	0.1	NA
Pyrene (ug/l)	0.1	3.1	BQL	BQL	BQL	NA
Chloroform (ug/l)	BQL	BQL	17	BQL	BQL	6, 000 ug/l

Each soil sample was analyzed for: Full Range TCLP, including VOCs, SVOCs, RCRA metals, and Pesticides/Herbicides
All other constituents not listed are ND – Not Detected, or BQL – Below Quantitation Limit
NA-Not Applicable to Hazardous Waste Threshold

TEST CERTIFICATE

Bodycote

Technitrol Inc.
Division Envirolab
1918, rte de l'Aéroport
Sainte-Foy (Québec)
Canada, G2G 2P8
Téléphone:
(418) 871-8722
Télécopieur:
(418) 871-9556

Date : 01/06/05

Request # : 085514

Subject : LEACHING ANALYSIS

Client : BODYCOTE TECHNITROL INC.
Project manager : MME CHRISTINE CHENIER
Sampled by : VOTRE REPRESENTANT

Reference : CT-09596

Sample(s) received : 01/05/16

	Lab # :	311058	311059	311060	311061
	Ref :	104106-48 1469	104106-48 1470	104106-48 1471	104106-48 1472
	D.Pr.:	01/05/11	01/05/11	01/05/11	01/05/11
PARAMETERS Units	H.Pr.:				
Leaching (TCLP 1311)		pH 4.93	pH 4.93	pH 4.93	pH 4.93

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Approved by: FRANCOIS AUBE, Chimiste M.Sc.

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Technitrol Inc.
Division Envirolab
1818, rte de l'Aéroport
Sainte-Foy (Québec)
Canada, G2G 2P8
Téléphone:
(418) 871-8722
Télécopieur
(418) 871-9555

Date : 01/06/05

Request # : 085514

Subject : LEACHING ANALYSIS

Client : BODYCOTE TECHNITROL INC.
Project manager : MME CHRISTINE CHENIER
Sampled by : VOTRE REPRESENTANT

Reference : CT-09596

Sample(s) received : 01/05/16

PARAMETERS	Units	Lab # : / Ref : / D.Pr.: / H.Pr.:				
		Lab # :	311062			
		Ref :	104106-48 1473			
		D.Pr.:	01/05/11			
		H.Pr.:				
Leaching (TCLP 1311)			pH 4.93			

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Division Envirolab
1818, rte de l'Aéroport
Sainte-Foy (Québec)
Canada, G2G 2P8
Téléphone:
(418) 871-8722
Télécopieur:
(418) 871-9558

Date : 01/06/05

Request # : 085514

Subject : LEACHING ANALYSIS

Client : BODYCOTE TECHNITROL INC.
Project manager : MME CHRISTINE CHENIER
Sampled by : VOTRE REPRESENTANT

Reference : CT-09596

Sample(s) received : 01/05/16

PARAMETERS	Units	Lab # : / Ref : / D.Pr.: / H.Pr.:	311058 / 104106-48 1469 / 01/05/11	311059 / 104106-48 1470 / 01/05/11	311060 / 104106-48 1471 / 01/05/11	311061 / 104106-48 1472 / 01/05/11
Toxaphene	µg/L		<0.5	<0.5	<0.5	<1.0
Organochlorine pesticides						
Alpha-BHC	µg/L		<0.002	<0.002	<0.002	<0.004
Hexachlorobenzene (HCB)	µg/L		<0.003	<0.003	<0.003	<0.006
Beta-BHC	µg/L		<0.006	<0.006	<0.006	<0.012
Gamma-BHC(lindane)	µg/L		<0.002	<0.002	<0.002	<0.004
Delta-BHC	µg/L		<0.003	<0.004	<0.015	<0.006
Heptachlore	µg/L		<0.003	<0.003	<0.003	<0.006
Aldrin	µg/L		<0.002	<0.002	<0.002	<0.004
Heptachlore epoxide	µg/L		<0.004	<0.060	[illegible]	[illegible]
Gamma-chlordane	µg/L		<0.003	<0.005		
o,p'-DDE	µg/L		[illegible]	[illegible]	[illegible]	[illegible]
Endosulfan I	µg/L		<0.003	<0.003	<0.003	<0.006
Alpha-chlordane	µg/L		<0.002	<0.002	<0.002	<0.004
p,p'-DDE	µg/L		<0.002	<0.002	<0.002	<0.004
Dieldrin	µg/L		<0.005	<0.005	<0.005	<0.010
o,p'-DDD (TDE)	µg/L		<0.005	<0.005	<0.005	<0.010
Endrin	µg/L		<0.010	<0.010	<0.010	<0.020
Endosulfan II	µg/L		<0.003	<0.003	<0.003	<0.006
p,p'-DDD (TDE)	µg/L		<0.006	<0.006	<0.006	<0.012
o,p'-DDT	µg/L		<0.007	<0.007	<0.007	<0.014
Endrin aldehyde	µg/L		<0.003	<0.003	<0.003	<0.006
Endosulfan sulfate	µg/L		<0.003	<0.003	<0.003	<0.006
p,p'-DDT	µg/L		<0.006	<0.006	<0.006	<0.012
Endrin cetone	µg/L		<0.003	<0.010	<0.003	<0.006

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Division Envirolab
1818, rte de l'Aéroport
Sainte-Foy (Québec)
Canada, G2G 2P8
Téléphone:
(418) 871-8722
Télécopieur:
(418) 871-9556

PARAMETERS	Units	Lab # : / Ref : / D.Pr.: / H.Pr.:	311058 / 104106-48 / 1469 / 01/05/11	311059 / 104106-48 / 1470 / 01/05/11	311060 / 104106-48 / 1471 / 01/05/11	311061 / 104106-48 / 1472 / 01/05/11
Methoxychlor	µg/L		<0.030	<0.030	<0.030	<0.060
Mirex	µg/L		<0.010	<0.010	<0.010	<0.020
Recovery			-	-	-	-
1,2,4,5-tetrabromobenzene	%		94	98	93	99
Decachlorobiphenyle	%		101	112	98	99
Phenoxyacid pesticides						
Dicamba	µg/L		<3.5	<3.5	<3.5	<3.5
MCPP (Mecoprop)	µg/L		<0.2	<0.2	<0.2	<0.2
MCPA	µg/L		<0.3	<0.3	<0.3	<0.3
2,4-DP (Dichloprop)	µg/L		<0.2	<0.2	<0.2	<0.2
2,4-D	µg/L		<0.2	<0.2	<0.2	<0.2
2,4,5-TP (Silvex)	µg/L		<0.2	<0.2	<0.2	<0.2
2,4,5-T	µg/L		<0.1	<0.1	<0.1	<0.1
MCPB	µg/L		<0.2	<0.2	<0.2	<0.2
2,4-DB	µg/L		<0.1	<0.1	<0.1	<0.1
Picloram	µg/L		<0.1	<0.1	<0.1	<0.1

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Technitrol Inc.
Division Envirolab
1818, rue de l'Aéroport
Sainte-Foy (Québec)
Canada, G2G 2P8
Téléphone:
(418) 871-8722
Télécopieur:
(418) 871-9556

Date : 01/06/05

Request # : 085514

Subject : LEACHING ANALYSIS

Client : BODYCOTE TECHNITROL INC.
Project manager : MME CHRISTINE CHENIER
Sampled by : VOTRE REPRESENTANT

Reference : CT-09596

Sample(s) received : 01/05/16

PARAMETERS	Units	Lab # : / Ref : / D.Pr.: / H.Pr.:	311062 / 104106-48 / 1473 / 01/05/11			
Toxaphene	µg/L		<1.0			
Organochlorine pesticides						
Alpha-BHC	µg/L		<0.004			
Hexachlorobenzene (HCB)	µg/L		<0.006			
Beta-BHC	µg/L		<0.012			
Gamma-BHC(lindane)	µg/L		<0.004			
Delta-BHC	µg/L		<0.004			
Heptachlore	µg/L		<0.006			
Aldrin	µg/L		<0.004			
Heptachlore epoxide	µg/L		<0.008			
Gamma-chlordane	µg/L		<0.006			
o,p'-DDE	µg/L		<0.010			
Endosulfan I	µg/L		<0.005			
Alpha-chlordane	µg/L		<0.004			
p,p'-DDE	µg/L		<0.004			
Dieldrin	µg/L		<0.010			
o,p'-DDD (TDE)	µg/L		<0.010			
Endrin	µg/L		<0.020			
Endosulfan II	µg/L		<0.006			
p,p'-DDD (TDE)	µg/L		<0.012			
o,p'-DDT	µg/L		<0.014			
Endrin aldehyde	µg/L		<0.006			
Endosulfan sulfate	µg/L		<0.006			
p,p'-DDT	µg/L		<0.012			
Endrin cetone	µg/L		<0.006			

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Technitrol Inc.
Division Envirolab
1818, rte de l'Aéroport
Sainte-Foy (Québec)
Canada, G2G 2P8
Téléphone:
(418) 871-6722
Télécopieur:
(418) 871-9556

PARAMETERS	Units	Lab # : / Ref : / D.Pr.: / H.Pr.:	311062 / 104106-48 / 1473 / 01/05/11			
Methoxychlor	µg/L		<0.060			
Mirex	µg/L		<0.020			
Recovery			-			
1,2,4,5-tetrabromobenzene	%		92			
Decachlorobiphenyle	%		97			
Phenoxyacid pesticides						
Dicamba	µg/L		<3.5			
MCPP (Mecoprop)	µg/L		<0.2			
MCPA	µg/L		<0.3			
2,4-DP (Dichloprop)	µg/L		<0.2			
2,4-D	µg/L		<0.2			
2,4,5-TP (Silvex)	µg/L		<0.2			
2,4,5-T	µg/L		<0.1			
MCPB	µg/L		<0.2			
2,4-DB	µg/L		<0.1			
Picloram	µg/L		<0.1			

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1818, rte de l'Aeroport
Sainte-Foy (Québec)
Canada, G2G 2P8
Téléphone:
(418) 871-6722
Télécopieur:
(418) 871-9556

Date : 01/06/05

Request # : 85514

ANALYSIS METHODS

Analysis	Nature	Reference	Method	Version
Leaching (TCLP 1311)	Leaching	EPA 1311	5000.16	
Organochlorine pesticides	Leaching	MENVIQ 89.07/403 P.Oc 1.1	2016.01	2000/04
Phenoxyacid pesticides	Leaching	MENVIQ 89.11/403 P.Ao 1.1-EPA 8270	2018.01	1997/09

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Bodycote TECHNITROL INC.

121, BOUL. HYMUS, POINTE-CLAIRE, QUÉBEC H9R 1E6 • TÉL.: (514) 697-3273 • FAX: (514) 697-2090

Certificate of analysis

Certificat no.:	33436-01
Date issued:	2001-06-08
Request no.	01-104106
Date received:	2001-05-15

Submitter

DENNIS HUNTER
ENVIRONMENTAL CONSULTING GROUP INC
2039 HIDDEN COVE LANE
KNOXVILLE, TENNESSEE, ÉTATS-UNIS
37922-6156

Your projet information:

Your project name:	Not available
Purchase order:	Not available

Note: These results apply only to the sample analysed

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Bodycote TECHNITROL INC.

121, BOUL. HYMUS, POINTE-CLAIRE, QUÉBEC H9R 1E6 • TÉL.: (514) 697-3273 • FAX: (514) 697-2090

Certificate of analysis

Sample Identification

Identification:	SP-1	Date sampled:	2001-05-11
		Site sampled:	PB6
Work request no.	104106	Sampled by:	GEJ
Laboratory No.:	481469	Type:	leachate

Analytical and quality control results

Cadmium	Sample	Blank	Certified Control Obtained	Certified Control Expected	Duplicate
Date prepared	01-05-17	01-05-17	01-05-17		
Date analysed	01-05-17	01-05-17	01-05-17		
Cadmium	< 0.01 mg/L	< 0.01 mg/L	1.0 mg/L	(0.85-1.15)	

Analytical Equipement ICP-IRIS
Method: Métaux par ICP / Metals by ICP-IRIS

Chromium	Sample	Blank	Certified Control Obtained	Certified Control Expected	Duplicate
Date prepared	01-05-17	01-05-17	01-05-17		
Date analysed	01-05-17	01-05-17	01-05-17		
Chromium	< 0.01 mg/L	< 0.01 mg/L	0.90 mg/L	(0.85-1.15)	

Analytical Equipement ICP-IRIS
Method: Métaux par ICP / Metals by ICP-IRIS

Copper	Sample	Blank	Certified Control Obtained	Certified Control Expected	Duplicate
Date prepared	01-05-17	01-05-17	01-05-17		
Date analysed	01-05-17	01-05-17	01-05-17		
Copper	0.020 mg/L	< 0.001 mg/L	0.96 mg/L	(0.85-1.15)	

Analytical Equipement ICP-IRIS
Method: Métaux par ICP / Metals by ICP-IRIS

Nickel	Sample	Blank	Certified Control Obtained	Certified Control Expected	Duplicate
Date prepared	01-05-17	01-05-17	01-05-17		
Date analysed	01-05-17	01-05-17	01-05-17		
Nickel	< 0.01 mg/L	< 0.01 mg/L	0.95 mg/L	(0.85-1.15)	

Analytical Equipement ICP-IRIS
Method: Métaux par ICP / Metals by ICP-IRIS

Note: These results apply only to the sample analysed

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121, BOUL. HYMUS, POINTE-CLAIRE, QUÉBEC H9R 1E6 • TÉL.: (514) 697-3273 • FAX: (514) 697-2090

Certificate of analysis

Sample Identification

Identification:	SP-1	Date sampled:	2001-05-11
		Site sampled:	PB6
Work request no.	104106	Sampled by:	GEJ
Laboratory No :	481469	Type:	leachate

Lead	Sample	Blank	Certified Control Obtained	Certified Control Expected	Duplicate
Date prepared	01-05-17	01-05-17	01-05-17		
Date analysed	01-05-17	01-05-17	01-05-17		
Lead	0.01 mg/L	< 0.01 mg/L	0.99 mg/L	(0.85-1.15)	

Analytical Equipement ICP-IRIS

Method: Métaux par ICP / Metals by ICP-IRIS

Zinc	Sample	Blank	Certified Control Obtained	Certified Control Expected	Duplicate
Date prepared	01-05-17	01-05-17	01-05-17		
Date analysed	01-05-17	01-05-17	01-05-17		
Zinc	0.42 mg/L	0.05 mg/L	0.96 mg/L	(0.85-1.15)	

Analytical Equipement ICP-IRIS

Method: Métaux par ICP / Metals by ICP-IRIS

Petroleum Hydrocarbons (C25-C34)	Sample	Blank	Certified Control Obtained	Certified Control Expected	Duplicate
Date Prepared	01-05-18	01-05-18			01-05-18
Date Analysed	01-05-22	01-05-18			01-05-22
Petroleum Hydrocarbons (C25-C34)	< 50 µg/L	< 50 µg/L			< 50 µg/L

Method: Hydrocarbure pétrolier par CG-DIF / Petroleum hydrocarbon by GC-FID.

Note: These results apply only to the sample analysed

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Certificate of analysis

Sample Identification

Identification:	SP-1	Date sampled:	2001-05-11
		Site sampled:	P86
Work request no.	104106	Sampled by:	GEJ
Laboratory No.:	481469	Type:	leachate

Polyaromatic Hydrocarbons	Sample	Blank	Certified Control Obtained	Certified Control Expected	Duplicate
Date prepared	01-05-18	01-05-18	01-05-18		
Date analysed	01-05-18	01-05-18	01-05-18		
Naphthalene	0.2 µg/L	< 0.1 µg/L	1.6 µg/L	(0.41-1.8)	
Acenaphthylene	< 0.1 µg/L	< 0.1 µg/L			
Acenaphthene	< 0.1 µg/L	< 0.1 µg/L	0.9 µg/L	(0.21-1.3)	
Fluorene	< 0.1 µg/L	< 0.1 µg/L	1.6 µg/L	(0.58-2.1)	
Dibenzo(a,h)Anthracene	< 0.1 µg/L	< 0.1 µg/L			
Phenanthrene	< 0.1 µg/L	< 0.1 µg/L	1.3 µg/L	(0-2)	
Anthracene	< 0.1 µg/L	< 0.1 µg/L	1.6 µg/L	(0.29-2)	
Fluoranthene	0.1 µg/L	< 0.1 µg/L	1.7 µg/L	(0.34-2.1)	
Pyrene	0.1 µg/L	< 0.1 µg/L	1.6 µg/L	(0.8-1.7)	
7,12-Dimethylbenzoanthracene	< 0.1 µg/L	< 0.1 µg/L			
Benzo(g,h,i)perylene	< 0.1 µg/L	< 0.1 µg/L			
Benzo(c)phenanthrene	< 0.1 µg/L	< 0.1 µg/L			
Chrysene	< 0.1 µg/L	< 0.1 µg/L	1.0 µg/L	(0.38-1)	
Benzo(a)anthracene	< 0.1 µg/L	< 0.1 µg/L			
Benzo(b,j,k)fluoranthene	< 0.1 µg/L	< 0.1 µg/L			
Benzo(a)pyrene	< 0.1 µg/L	< 0.1 µg/L			
3-Methylcholanthrene	< 0.1 µg/L	< 0.1 µg/L			
Indeno (1,2,3-cd) Pyrene	< 0.1 µg/L	< 0.1 µg/L			
Dibenzo (a,l) pyrene	< 0.1 µg/L	< 0.1 µg/L			
Dibenzo (a,i) pyrene	< 0.1 µg/L	< 0.1 µg/L			
Dibenzo (a,h) pyrene	< 0.1 µg/L	< 0.1 µg/L			
Pourcentage recovery					
D10-Fluorene	83 %	70 %	75 %		
D10-pyrene	78 %	78 %	88 %		
D12-Benzo[a]pyrene	50 %	60 %	68 %		

Method: Composés semi-volatils par CG-SM / Semi-volatile Organic compounds by GC-MS.

Note: These results apply only to the sample analysed

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Certificate of analysis

Sample identification

Identification:	SP-1	Date sampled:	2001-05-11
		Site sampled:	PB6
Work request no.	104106	Sampled by:	GEJ
Laboratory No.:	481469	Type:	leachate

THH	Sample	Blank	Certified Control Obtained	Certified Control Expected	Duplicate
Date prepared	01-05-30	01-05-30	01-05-30		
Date analysed	01-05-30	01-05-30	01-05-30		
Chloroform	< 2.0 µg/L	< 0.1 µg/L	39 µg/L	(28.3-42.3)	
1,1-Dichloroethane	< 2.0 µg/L	< 0.1 µg/L			
1,1-Dichloroethene	< 2.0 µg/L	< 0.1 µg/L			
1,2-Dichloroethane	< 2.0 µg/L	< 0.1 µg/L	56 µg/L	(41.9-64.3)	
1,2-Dichloroethene (t+c)	< 2.0 µg/L	< 0.1 µg/L	27 µg/L	(18.4-33.1)	
1,2-Dichloropropane	< 2.0 µg/L	< 0.1 µg/L			
1,3-Dichloropropene (t+c)	< 2.0 µg/L	< 0.1 µg/L			
Dichloromethane	< 2.0 µg/L	0.2 µg/L	25 µg/L	(16.6-27.8)	
1,1,2,2-Tetrachloroethane	< 2.0 µg/L	< 0.1 µg/L			
Tetrachloroethene	< 2.0 µg/L	< 0.1 µg/L	58 µg/L	(53.8-82.7)	
Carbon Tetrachloride	< 2.0 µg/L	< 0.1 µg/L	28 µg/L	(24.1-41)	
1,1,1-Trichloroethane	< 2.0 µg/L	< 0.1 µg/L	32 µg/L	(23.4-37.1)	
1,1,2-Trichloroethane	< 2.0 µg/L	< 0.1 µg/L			
Trichloroethane	< 2.0 µg/L	< 0.1 µg/L	18 µg/L	(14.4-22.5)	
Vinyl Chloride	< 10 µg/L	< 0.5 µg/L			
Hexachloroethane	< 10 µg/L	< 0.5 µg/L			
Pentachloroethane	< 10 µg/L	< 0.5 µg/L			
Pourcentage recovery					
Dibromofluoromethane	101 %	100 %	100 %		
D8-Toluene	104 %	105 %	98 %		
1-Bromo-4-fluorobenzene	103 %	102 %	101 %		

Method. Composés organiques halogènes totaux par CG-SM / Total halides organic compounds by GC-MS.

Note: These results apply only to the sample analysed

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Certificate of analysis

Sample identification

Identification:	SP-1	Date sampled:	2001-05-11
		Site sampled:	PB6
Work request no.	104106	Sampled by:	GEJ
Laboratory No.:	481469	Type:	leachate

MAH	Sample	Blank	Certified Control Obtained	Certified Control Expected	Duplicate
Date prepared	01-05-30	01-05-30	01-05-30		
Date analysed	01-05-30	01-05-30	01-05-30		
Benzene	< 2.0 µg/L	< 0.1 µg/L	15 µg/L	(11.7-17.7)	
Toluene	< 2.0 µg/L	< 0.1 µg/L	30 µg/L	(24.5-35.6)	
Ethylbenzene	< 2.0 µg/L	< 0.1 µg/L	52 µg/L	(44.9-69.8)	
Chlorobenzene	< 2.0 µg/L	< 0.1 µg/L	26 µg/L	(22.6-32.8)	
Xylenes	< 2.0 µg/L	< 0.1 µg/L			
Styrene	< 2.0 µg/L	< 0.1 µg/L	17 µg/L	(15.3-25)	
1,3-Dichlorobenzene	< 2.0 µg/L	< 0.1 µg/L	30 µg/L	(25.6-37.4)	
1,4-Dichlorobenzene	< 2.0 µg/L	< 0.1 µg/L	15 µg/L	(12.9-19.8)	
1,2-Dichlorobenzene	< 2.0 µg/L	< 0.1 µg/L	34 µg/L	(28.8-42.4)	
Pourcentage recovery					
Dibromofluoromethane	101 %	100 %	100 %		
D8-Toluene	104 %	105 %	98 %		
1-Bromo-4-fluorobenzene	103 %	102 %	101 %		

Method: Composés organiques volatils par CG-SM / Volatile organic compounds by GC-MS.

Petroleum Hydrocarbons (C10-C24)	Sample	Blank	Certified Control Obtained	Certified Control Expected	Duplicate
Date prepared	01-05-18	01-05-18	01-05-18		01-05-18
Date analysed	01-05-22	01-05-22	01-05-22		01-05-22
Petroleum Hydrocarbons (C10-C24)	< 50 µg/L	< 50 µg/L	1200 µg/L	(1100-2800)	< 50 µg/L

Method: Hydrocarbure pétrolier par CG-DIF / Petroleum hydrocarbon by GC-FID.

Petroleum Hydrocarbons (C5-C10)	Sample	Blank	Certified Control Obtained	Certified Control Expected	Duplicate
Date prepared	01-05-30	01-05-30	01-05-30		
Date analysed	01-05-30	01-05-30	01-05-30		
Petroleum Hydrocarbons (C5-C10)	< 500 µg/L	< 25 µg/L	4300 µg/L	(3500-6500)	

Method: Hydrocarbure pétrolier par CG-DIF / Petroleum hydrocarbon by GC-FID.

Note: These results apply only to the sample analysed

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Certificate of analysis

Sample identification

Identification:	SP-1	Date sampled:	2001-05-11
		Site sampled:	PB8
Work request no.	104106	Sampled by:	GEJ
Laboratory No.:	481469	Type:	leachate

Chlorinated Phenolic Compounds	Sample	Blank	Certified Control Obtained	Certified Control Expected	Duplicate
Date prepared	01-05-18	01-05-18	01-05-18		
Date analysed	01-05-18	01-05-18	01-05-18		
2-Chlorophenol	< 1.0 µg/L	< 1.0 µg/L	0.9 µg/L	(0.6-1.6)	
3-Chlorophenol	< 1.0 µg/L	< 1.0 µg/L			
4-Chlorophenol	< 1.0 µg/L	< 1.0 µg/L			
2,3-Dichlorophenol	< 1.0 µg/L	< 1.0 µg/L			
2,4-Dichlorophenol	< 1.0 µg/L	< 1.0 µg/L			
2,5-Dichlorophenol	< 1.0 µg/L	< 1.0 µg/L			
2,6-Dichlorophenol	< 1.0 µg/L	< 1.0 µg/L			
3,4-Dichlorophenol	< 1.0 µg/L	< 1.0 µg/L			
3,5-Dichlorophenol	< 1.0 µg/L	< 1.0 µg/L			
2,3,4-Trichlorophenol	< 1.0 µg/L	< 1.0 µg/L			
2,3,5-Trichlorophenol	< 1.0 µg/L	< 1.0 µg/L			
2,3,6-Trichlorophenol	< 1.0 µg/L	< 1.0 µg/L			
2,4,5-Trichlorophenol	< 1.0 µg/L	< 1.0 µg/L			
2,4,6-Trichlorophenol	< 1.0 µg/L	< 1.0 µg/L			
3,4,5-Trichlorophenol	< 1.0 µg/L	< 1.0 µg/L			
2,3,4,5-Tetrachlorophenol	< 1.0 µg/L	< 1.0 µg/L			
2,3,4,6-Tetrachlorophenol	< 1.0 µg/L	< 1.0 µg/L			
2,3,5,6-Tetrachlorophenol	< 1.0 µg/L	< 1.0 µg/L			
Pentachlorophenol	< 1.0 µg/L	< 1.0 µg/L	3.4 µg/L	(1.4-4)	
Pourcentage recovery					
D3-2,4-dichlorophenol	76 %	68 %	70 %		
C13-Pentachlorophenol	98 %	96 %	82 %		
D2-2,4,6-Trichlorophenol	62 %	62 %	110 %		

Method: Composés semi-volatils par CG-SM / Semi-volatile Organic compounds by GC-MS.

Note: These results apply only to the sample analysed

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Certificate of analysis

Sample Identification

Identification:	SP-1	Date sampled:	2001-05-11
		Site sampled:	PB6
Work request no.	104106	Sampled by:	GEJ
Laboratory No.:	481469	Type:	leachate

Non Chlorinated Phenolic Compounds	Sample	Blank	Certified Control Obtained	Certified Control Expected	Duplicate
Date prepared	01-05-18	01-05-18	01-05-18		
Date analysed	01-05-18	01-05-18	01-05-18		
Phenol	< 1.0 µg/L	< 1.0 µg/L	0.4 µg/L	(0-1.5)	
o-Cresol	< 1.0 µg/L	< 1.0 µg/L			
m-Cresol	< 1.0 µg/L	< 1.0 µg/L			
p-Cresol	< 1.0 µg/L	< 1.0 µg/L			
2-Nitrophenol	< 1.0 µg/L	< 1.0 µg/L	2.2 µg/L	(0.6-2.9)	
2,4-Dimethylphenol	< 1.0 µg/L	< 1.0 µg/L			
2,4-Dinitrophenol	< 1.0 µg/L	< 1.0 µg/L			
4-Nitrophenol	< 1.0 µg/L	< 1.0 µg/L	1.7 µg/L	(0-4)	
2-Methyl-4,6-Dinitrophenol	< 1.0 µg/L	< 1.0 µg/L			
Pourcentage recovery					
D3-2,4-dichlorophenol	78 %	68 %	70 %		
C13-Pentachlorophenol	96 %	96 %	62 %		
D2-2,4,6-Trichlorophenol	62 %	62 %	110 %		

Method: Composés semi-volatils par CG-SM / Semi-volatile Organic compounds by GC-MS.

Comment: Blank for the zinc non-conform (>3xMQL).

Non-conformities: None

Note: These results apply only to the sample analysed

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Certificate of analysis

Sample identification

Identification:	SP-2	Date sampled:	2001-05-11
		Site sampled:	PB6
Work request no.	104106	Sampled by:	GEJ
Laboratory No.:	461470	Type:	leachate

Analytical and quality control results

Cadmium	Sample	Blank	Certified Control Obtained	Certified Control Expected	Duplicate
Date prepared	01-05-17	01-05-17	01-05-17		
Date analysed	01-05-17	01-05-17	01-05-17		
Cadmium	0.09 mg/L	< 0.01 mg/L	1.0 mg/L	(0.85-1.15)	

Analytical Equipement ICP-IRIS

Method: Métaux par ICP / Metals by ICP-IRIS

Chromium	Sample	Blank	Certified Control Obtained	Certified Control Expected	Duplicate
Date prepared	01-05-17	01-05-17	01-05-17		
Date analysed	01-05-17	01-05-17	01-05-17		
Chromium	< 0.01 mg/L	< 0.01 mg/L	0.90 mg/L	(0.85-1.15)	

Analytical Equipement ICP-IRIS

Method: Métaux par ICP / Metals by ICP-IRIS

Copper	Sample	Blank	Certified Control Obtained	Certified Control Expected	Duplicate
Date prepared	01-05-17	01-05-17	01-05-17		
Date analysed	01-05-17	01-05-17	01-05-17		
Copper	0.12 mg/L	< 0.001 mg/L	0.98 mg/L	(0.85-1.15)	

Analytical Equipement ICP-IRIS

Method: Métaux par ICP / Metals by ICP-IRIS

Nickel	Sample	Blank	Certified Control Obtained	Certified Control Expected	Duplicate
Date prepared	01-05-17	01-05-17	01-05-17		
Date analysed	01-05-17	01-05-17	01-05-17		
Nickel	0.02 mg/L	< 0.01 mg/L	0.95 mg/L	(0.85-1.15)	

Analytical Equipement ICP-IRIS

Method: Métaux par ICP / Metals by ICP-IRIS

Note: These results apply only to the sample analysed

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Certificate of analysis

Sample Identification

Identification:	SP-2	Date sampled:	2001-05-11
		Site sampled:	PB6
Work request no.	104106	Sampled by:	GEJ
Laboratory No.:	481470	Type:	leachate

Lead	Sample	Blank	Certified Control Obtained	Certified Control Expected	Duplicate
Date prepared	01-05-17	01-05-17	01-05-17		
Date analysed	01-05-17	01-05-17	01-05-17		
Lead	0.24 mg/L	< 0.01 mg/L	0.99 mg/L	(0.85-1.15)	

Analytical Equipement ICP-IRIS

Method: Métaux par ICP / Metals by ICP-IRIS

Zinc	Sample	Blank	Certified Control Obtained	Certified Control Expected	Duplicate
Date prepared	01-05-17	01-05-17	01-05-17		
Date analysed	01-05-17	01-05-17	01-05-17		
Zinc	2.3 mg/L	0.05 mg/L	0.96 mg/L	(0.85-1.15)	

Analytical Equipement ICP-IRIS

Method: Métaux par ICP / Metals by ICP-IRIS

Petroleum Hydrocarbons (C25-C34)	Sample	Blank	Certified Control Obtained	Certified Control Expected	Duplicate
Date Prepared	01-05-18	01-05-18			
Date Analysed	01-05-22	01-05-18			
Petroleum Hydrocarbons (C25-C34)	< 50 µg/L	< 50 µg/L			

Method: Hydrocarbure pétrolier par CG-DIF / Petroleum hydrocarbon by GC-FID.

Note: These results apply only to the sample analysed

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Certificate of analysis

Sample Identification

Identification:	SP-2	Date sampled:	2001-05-11
		Site sampled:	PB6
Work request no.	104106	Sampled by:	GEJ
Laboratory No.:	481470	Type:	leachate

Polyaromatic Hydrocarbons	Sample	Blank	Certified Control Obtained	Certified Control Expected	Duplicate
Date prepared	01-05-18	01-05-18	01-05-18		
Date analysed	01-05-18	01-05-18	01-05-18		
Naphthalene	< 0.1 µg/L	< 0.1 µg/L	1.6 µg/L	(0.41-1.8)	
Acenaphthylene	< 0.1 µg/L	< 0.1 µg/L			
Acenaphthene	< 0.1 µg/L	< 0.1 µg/L	0.9 µg/L	(0.21-1.3)	
Fluorene	< 0.1 µg/L	< 0.1 µg/L	1.6 µg/L	(0.58-2.1)	
Dibenzo(a,h)Anthracene	< 0.1 µg/L	< 0.1 µg/L			
Phenanthrene	0.2 µg/L	< 0.1 µg/L	1.3 µg/L	(0-2)	
Anthracene	0.2 µg/L	< 0.1 µg/L	1.6 µg/L	(0.29-2)	
Fluoranthene	2.4 µg/L	< 0.1 µg/L	1.7 µg/L	(0.34-2.1)	
Pyrene	3.1 µg/L	< 0.1 µg/L	1.6 µg/L	(0.8-1.7)	
7,12-Dimethylbenzoanthracene	< 0.1 µg/L	< 0.1 µg/L			
Benzo(g,h,i)perylene	< 0.1 µg/L	< 0.1 µg/L			
Benzo(c)phenanthrene	< 0.1 µg/L	< 0.1 µg/L			
Chrysene	< 0.1 µg/L	< 0.1 µg/L	1.0 µg/L	(0.38-1)	
Benzo(a)anthracene	< 0.1 µg/L	< 0.1 µg/L			
Benzo(b,j,k)fluoranthene	< 0.1 µg/L	< 0.1 µg/L			
Benzo(a)pyrene	< 0.1 µg/L	< 0.1 µg/L			
3-Methylcholanthrene	< 0.1 µg/L	< 0.1 µg/L			
Indeno (1,2,3-cd) Pyrene	< 0.1 µg/L	< 0.1 µg/L			
Dibenzo (a,l) pyrene	< 0.1 µg/L	< 0.1 µg/L			
Dibenzo (a,i) pyrene	< 0.1 µg/L	< 0.1 µg/L			
Dibenzo (a,h) pyrene	< 0.1 µg/L	< 0.1 µg/L			
Pourcentage recovery					
D10-Fluorene	86 %	70 %	75 %		
D10-pyrene	89 %	78 %	88 %		
D12-Benzo(a)pyrene	87 %	60 %	68 %		

Method: Composés semi-volatils par CG-SM / Semi-volatile Organic compounds by GC-MS.

Note: These results apply only to the sample analysed

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Certificate of analysis

Sample Identification

Identification:	SP-2	Date sampled:	2001-05-11
		Site sampled:	PB6
Work request no.	104106	Sampled by:	GEJ
Laboratory No.:	481470	Type:	leachate

THH	Sample	Blank	Certified Control Obtained	Certified Control Expected	Duplicate
Date prepared	01-05-30	01-05-30	01-05-30		
Date analysed	01-05-30	01-05-30	01-05-30		
Chloroform	< 2.0 µg/L	< 0.1 µg/L	39 µg/L	(28.3-42.3)	
1,1-Dichloroethane	< 2.0 µg/L	< 0.1 µg/L			
1,1-Dichloroethene	< 2.0 µg/L	< 0.1 µg/L			
1,2-Dichloroethane	< 2.0 µg/L	< 0.1 µg/L	56 µg/L	(41.9-84.3)	
1,2-Dichloroethene (t+c)	< 2.0 µg/L	< 0.1 µg/L	27 µg/L	(18.4-33.1)	
1,2-Dichloropropane	< 2.0 µg/L	< 0.1 µg/L			
1,3-Dichloropropene (t+c)	< 2.0 µg/L	< 0.1 µg/L			
Dichloromethane	< 2.0 µg/L	0.2 µg/L	25 µg/L	(16.6-27.8)	
1,1,2,2-Tetrachloroethane	< 2.0 µg/L	< 0.1 µg/L			
Tetrachloroethene	< 2.0 µg/L	< 0.1 µg/L	58 µg/L	(53.8-82.7)	
Carbon Tetrachloride	< 2.0 µg/L	< 0.1 µg/L	28 µg/L	(24.1-41)	
1,1,1-Trichloroethane	< 2.0 µg/L	< 0.1 µg/L	32 µg/L	(23.4-37.1)	
1,1,2-Trichloroethane	< 2.0 µg/L	< 0.1 µg/L			
Trichloroethene	< 2.0 µg/L	< 0.1 µg/L	18 µg/L	(14.4-22.5)	
Vinyl Chloride	< 10 µg/L	< 0.5 µg/L			
Hexachloroethane	< 10 µg/L	< 0.5 µg/L			
Pentachloroethane	< 10 µg/L	< 0.5 µg/L			
Pourcentage recovery					
Dibromofluoromethane	106 %	100 %	100 %		
D8-Toluene	105 %	105 %	98 %		
1-Bromo-4-fluorobenzene	103 %	102 %	101 %		

Method: Composés organiques halogènes totaux par CG-SM / Total halides organic compounds by GC-MS.

Note: These results apply only to the sample analysed

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121, BOUL. HYMUS, POINTE-CLAIRE, QUÉBEC H9R 1E6 • TÉL.: (514) 697-3273 • FAX: (514) 697-2090

Certificate of analysis

Sample identification

Identification:	SP-2	Date sampled:	2001-05-11
		Site sampled:	PB6
Work request no.	104106	Sampled by:	GEJ
Laboratory No.:	481470	Type:	leachate

MAH	Sample	Blank	Certified Control Obtained	Certified Control Expected	Duplicate
Date prepared	01-05-30	01-05-30	01-05-30		
Date analysed	01-05-30	01-05-30	01-05-30		
Benzene	< 2.0 µg/L	< 0.1 µg/L	15 µg/L	(11.7-17.7)	
Toluene	< 2.0 µg/L	< 0.1 µg/L	30 µg/L	(24.5-35.6)	
Ethylbenzene	< 2.0 µg/L	< 0.1 µg/L	52 µg/L	(44.9-69.8)	
Chlorobenzene	< 2.0 µg/L	< 0.1 µg/L	28 µg/L	(22.6-32.8)	
Xylenes	< 2.0 µg/L	< 0.1 µg/L			
Styrene	< 2.0 µg/L	< 0.1 µg/L	17 µg/L	(15.3-25)	
1,3-Dichlorobenzene	< 2.0 µg/L	< 0.1 µg/L	30 µg/L	(25.6-37.4)	
1,4-Dichlorobenzene	< 2.0 µg/L	< 0.1 µg/L	15 µg/L	(12.9-19.8)	
1,2-Dichlorobenzene	< 2.0 µg/L	< 0.1 µg/L	34 µg/L	(28.8-42.4)	
Pourcentage recovery					
Dibromofluoromethane	106 %	100 %	100 %		
D8-Toluene	105 %	105 %	98 %		
1-Bromo-4-fluorobenzene	103 %	102 %	101 %		

Method: *Composés organiques volatils par CG-SM / Volatile organic compounds by GC-MS.*

Petroleum Hydrocarbons (C10-C24)	Sample	Blank	Certified Control Obtained	Certified Control Expected	Duplicate
Date prepared	01-05-18	01-05-18	01-05-18		
Date analysed	01-05-22	01-05-22	01-05-22		
Petroleum Hydrocarbons (C10-C24)	< 50 µg/L	< 50 µg/L	1200 µg/L	(1100-2800)	

Method: Hydrocarbure pétrolier par CG-DIF / Petroleum hydrocarbon by GC-FID.

Petroleum Hydrocarbons (C5-C10)	Sample	Blank	Certified Control Obtained	Certified Control Expected	Duplicate
Date prepared	01-05-30	01-05-30	01-05-30		
Date analysed	01-05-30	01-05-30	01-05-30		
Petroleum Hydrocarbons (C5-C10)	< 500 µg/L	< 25 µg/L	4300 µg/L	(3500-6500)	

Method: Hydrocarbure pétrolier par CG-DIF / Petroleum hydrocarbon by GC-FID.

Note: These results apply only to the sample analysed

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Certificate of analysis

Sample Identification

Identification:	SP-2	Date sampled:	2001-05-11
		Site sampled:	PB8
Work request no.	104106	Sampled by:	GEJ
Laboratory No.:	481470	Type:	leachate

Chlorinated Phenolic Compounds	Sample	Blank	Certified Control Obtained	Certified Control Expected	Duplicate
Date prepared	01-05-18	01-05-18	01-05-18		
Date analysed	01-05-18	01-05-18	01-05-18		
2-Chlorophenol	< 1.0 µg/L	< 1.0 µg/L	0.9 µg/L	(0.8-1.8)	
3-Chlorophenol	< 1.0 µg/L	< 1.0 µg/L			
4-Chlorophenol	< 1.0 µg/L	< 1.0 µg/L			
2,3-Dichlorophenol	< 1.0 µg/L	< 1.0 µg/L			
2,4-Dichlorophenol	< 1.0 µg/L	< 1.0 µg/L			
2,5-Dichlorophenol	< 1.0 µg/L	< 1.0 µg/L			
2,6-Dichlorophenol	< 1.0 µg/L	< 1.0 µg/L			
3,4-Dichlorophenol	< 1.0 µg/L	< 1.0 µg/L			
3,5-Dichlorophenol	< 1.0 µg/L	< 1.0 µg/L			
2,3,4-Trichlorophenol	< 1.0 µg/L	< 1.0 µg/L			
2,3,5-Trichlorophenol	< 1.0 µg/L	< 1.0 µg/L			
2,3,6-Trichlorophenol	< 1.0 µg/L	< 1.0 µg/L			
2,4,5-Trichlorophenol	< 1.0 µg/L	< 1.0 µg/L			
2,4,6-Trichlorophenol	< 1.0 µg/L	< 1.0 µg/L			
3,4,5-Trichlorophenol	< 1.0 µg/L	< 1.0 µg/L			
2,3,4,5-Tetrachlorophenol	< 1.0 µg/L	< 1.0 µg/L			
2,3,4,6-Tetrachlorophenol	< 1.0 µg/L	< 1.0 µg/L			
2,3,5,6-Tetrachlorophenol	< 1.0 µg/L	< 1.0 µg/L			
Pentachlorophenol	< 1.0 µg/L	< 1.0 µg/L	3.4 µg/L	(1.4-4)	
Pourcentage recovery					
D3-2,4-dichlorophenol	70 %	68 %	70 %		
C13-Pentachlorophenol	96 %	96 %	62 %		
D2-2,4,6-Trichlorophenol	62 %	62 %	110 %		

Method: *Composés semi-volatils par CG-SM / Semi-volatile Organic compounds by GC-MS.*

Note: These results apply only to the sample analysed

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Certificate of analysis

Sample Identification

Identification:	SP-2	Date sampled:	2001-05-11
		Site sampled:	PB6
Work request no.	104106	Sampled by:	GEJ
Laboratory No	481470	Type:	leachate

Non Chlorinated Phenolic Compounds	Sample	Blank	Certified Control Obtained	Certified Control Expected	Duplicate
Date prepared	01-05-18	01-05-18	01-05-18		
Date analysed	01-05-18	01-05-18	01-05-18		
Phenol	< 1.0 µg/L	< 1.0 µg/L	0.4 µg/L	(0-1.5)	
o-Cresol	< 1.0 µg/L	< 1.0 µg/L			
m-Cresol	< 1.0 µg/L	< 1.0 µg/L			
p-Cresol	< 1.0 µg/L	< 1.0 µg/L			
2-Nitrophenol	< 1.0 µg/L	< 1.0 µg/L	2.2 µg/L	(0.6-2.9)	
2,4-Dimethylphenol	< 1.0 µg/L	< 1.0 µg/L			
2,4-Dinitrophenol	< 1.0 µg/L	< 1.0 µg/L			
4-Nitrophenol	< 1.0 µg/L	< 1.0 µg/L	1.7 µg/L	(0-4)	
2-Methyl-4,6-Dinitrophenol	< 1.0 µg/L	< 1.0 µg/L			
Pourcentage recovery					
D3-2,4-dichlorophenol	70 %	68 %	70 %		
C13-Pentachlorophenol	96 %	96 %	62 %		
D2-2,4,6-Trichlorophenol	62 %	62 %	110 %		

Method: Composés semi-volatils par CG-SM / Semi-volatile Organic compounds by GC-MS.

Comment: Blank for the zinc non-conform (>3xMQL).
Non-conformities: None

Note: These results apply only to the sample analysed

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Certificate of analysis

Sample Identification

Identification:	SP-3	Date sampled:	2001-05-11
		Site sampled:	PB6
Work request no.	104106	Sampled by:	GEJ
Laboratory No.:	481471	Type:	leachate

Analytical and quality control results

Cadmium	Sample	Blank	Certified Control Obtained	Certified Control Expected	Duplicate
Date prepared	01-05-17	01-05-17	01-05-17		
Date analysed	01-05-17	01-05-17	01-05-17		
Cadmium	0.21 mg/L	< 0.01 mg/L	1.0 mg/L	(0.85-1.15)	

Analytical Equipement ICP-IRIS
Method: Métaux par ICP / Metals by ICP-IRIS

Chromium	Sample	Blank	Certified Control Obtained	Certified Control Expected	Duplicate
Date prepared	01-05-17	01-05-17	01-05-17		
Date analysed	01-05-17	01-05-17	01-05-17		
Chromium	< 0.01 mg/L	< 0.01 mg/L	0.90 mg/L	(0.85-1.15)	

Analytical Equipement ICP-IRIS
Method: Métaux par ICP / Metals by ICP-IRIS

Copper	Sample	Blank	Certified Control Obtained	Certified Control Expected	Duplicate
Date prepared	01-05-17	01-05-17	01-05-17		
Date analysed	01-05-17	01-05-17	01-05-17		
Copper	0.030 mg/L	< 0.001 mg/L	0.98 mg/L	(0.85-1.15)	

Analytical Equipement ICP-IRIS
Method: Métaux par ICP / Metals by ICP-IRIS

Nickel	Sample	Blank	Certified Control Obtained	Certified Control Expected	Duplicate
Date prepared	01-05-17	01-05-17	01-05-17		
Date analysed	01-05-17	01-05-17	01-05-17		
Nickel	0.02 mg/L	< 0.01 mg/L	0.95 mg/L	(0.85-1.15)	

Analytical Equipement ICP-IRIS
Method: Métaux par ICP / Metals by ICP-IRIS

Note: These results apply only to the sample analysed

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Certificate of analysis

Sample Identification

Identification:	SP-3	Date sampled:	2001-05-11
		Site sampled:	PBS
Work request no.	104106	Sampled by:	GEJ
Laboratory No.:	481471	Type:	leachate

Lead	Sample	Blank	Certified Control Obtained	Certified Control Expected	Duplicate
Date prepared	01-05-17	01-05-17	01-05-17		
Date analysed	01-05-17	01-05-17	01-05-17		
Lead	0.22 mg/L	< 0.01 mg/L	0.99 mg/L	(0.85-1.15)	

Analytical Equipement ICP-IRIS

Method: Métaux par ICP / Metals by ICP-IRIS

Zinc	Sample	Blank	Certified Control Obtained	Certified Control Expected	Duplicate
Date prepared	01-05-17	01-05-17	01-05-17		
Date analysed	01-05-17	01-05-17	01-05-17		
Zinc	1.1 mg/L	0.05 mg/L	0.96 mg/L	(0.85-1.15)	

Analytical Equipement ICP-IRIS

Method: Métaux par ICP / Metals by ICP-IRIS

Petroleum Hydrocarbons (C25-C34)	Sample	Blank	Certified Control Obtained	Certified Control Expected	Duplicate
Date Prepared	01-05-18	01-05-18			
Date Analysed	01-05-22	01-05-18			
Petroleum Hydrocarbons (C25-C34)	< 50 µg/L	< 50 µg/L			

Method: Hydrocarbure pétrolier par CG-DIF / Petroleum hydrocarbon by GC-FID.

Note: These results apply only to the sample analysed

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Certificate of analysis

Sample Identification

Identification:	SP-3	Date sampled:	2001-05-11
		Site sampled:	PB6
Work request no.	104106	Sampled by:	GEJ
Laboratory No.:	481471	Type:	leachate

Polyaromatic Hydrocarbons	Sample	Blank	Certified Control Obtained	Certified Control Expected	Duplicate
Date prepared	01-05-18	01-05-18	01-05-18		
Date analysed	01-05-18	01-05-18	01-05-18		
Naphthalene	0.3 µg/L	< 0.1 µg/L	1.6 µg/L	(0.41-1.8)	
Acenaphthylene	< 0.1 µg/L	< 0.1 µg/L			
Acenaphthene	< 0.1 µg/L	< 0.1 µg/L	0.9 µg/L	(0.21-1.3)	
Fluorene	< 0.1 µg/L	< 0.1 µg/L	1.6 µg/L	(0.58-2.1)	
Dibenzo(a,h)Anthracene	< 0.1 µg/L	< 0.1 µg/L			
Phenanthrene	0.2 µg/L	< 0.1 µg/L	1.3 µg/L	(0-2)	
Anthracene	< 0.1 µg/L	< 0.1 µg/L	1.6 µg/L	(0.29-2)	
Fluoranthene	0.1 µg/L	< 0.1 µg/L	1.7 µg/L	(0.34-2.1)	
Pyrene	< 0.1 µg/L	< 0.1 µg/L	1.6 µg/L	(0.8-1.7)	
7,12-Dimethylbenzoanthracene	< 0.1 µg/L	< 0.1 µg/L			
Benzo(g,h,i)perylene	< 0.1 µg/L	< 0.1 µg/L			
Benzo(c)phenanthrene	< 0.1 µg/L	< 0.1 µg/L			
Chrysene	< 0.1 µg/L	< 0.1 µg/L	1.0 µg/L	(0.38-1)	
Benzo(a)anthracene	< 0.1 µg/L	< 0.1 µg/L			
Benzo(b,j,k)fluoranthene	< 0.1 µg/L	< 0.1 µg/L			
Benzo(a)pyrene	< 0.1 µg/L	< 0.1 µg/L			
3-Methylcholanthrene	< 0.1 µg/L	< 0.1 µg/L			
Indeno (1,2,3-cd) Pyrene	< 0.1 µg/L	< 0.1 µg/L			
Dibenzo (a,l) pyrene	< 0.1 µg/L	< 0.1 µg/L			
Dibenzo (a,i) pyrene	< 0.1 µg/L	< 0.1 µg/L			
Dibenzo (a,h) pyrene	< 0.1 µg/L	< 0.1 µg/L			
Pourcentage recovery					
D10-Fluorene	83 %	70 %	75 %		
D10-pyrene	84 %	78 %	88 %		
D12-Benzo(a)pyrene	79 %	80 %	68 %		

Method: Composés semi-volatils par CG-SM / Semi-volatile Organic compounds by GC-MS.

Note: These results apply only to the sample analysed

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Certificate of analysis

Sample identification

Identification:	SP-3	Date sampled:	2001-05-11
		Site sampled:	PB6
		Sampled by:	GEJ
Work request no.:	104106	Type:	leachate
Laboratory No.:	481471		

THH	Sample	Blank	Certified Control Obtained	Certified Control Expected	Duplicate
Date prepared	01-05-25	01-05-25	01-05-25		
Data analysed	01-05-25	01-05-25	01-05-25		
Chloroform	17 µg/L	< 0.1 µg/L	40 µg/L	(28.3-42.3)	
1,1-Dichloroethane	< 2.0 µg/L	< 0.1 µg/L			
1,1-Dichloroethene	< 2.0 µg/L	< 0.1 µg/L			
1,2-Dichloroethane	< 2.0 µg/L	< 0.1 µg/L	55 µg/L	(41.9-64.3)	
1,2-Dichloroethene (t+c)	< 2.0 µg/L	< 0.1 µg/L	27 µg/L	(18.4-33.1)	
1,2-Dichloropropane	< 2.0 µg/L	< 0.1 µg/L			
1,3-Dichloropropene (t+c)	< 2.0 µg/L	< 0.1 µg/L			
Dichloromethane	< 2.0 µg/L	0.2 µg/L	25 µg/L	(16.6-27.8)	
1,1,2,2-Tetrachloroethane	< 2.0 µg/L	< 0.1 µg/L			
Tetrachloroethene	< 2.0 µg/L	< 0.1 µg/L	67 µg/L	(53.8-82.7)	
Carbon Tetrachloride	< 2.0 µg/L	< 0.1 µg/L	32 µg/L	(24.1-41)	
1,1,1-Trichloroethane	< 2.0 µg/L	< 0.1 µg/L	33 µg/L	(23.4-37.1)	
1,1,2-Trichloroethane	< 2.0 µg/L	< 0.1 µg/L			
Trichloroethene	< 2.0 µg/L	< 0.1 µg/L	20 µg/L	(14.4-22.5)	
Vinyl Chloride	< 10 µg/L	< 0.5 µg/L			
Hexachloroethane	< 10 µg/L	< 0.5 µg/L			
Pentachloroethane	< 10 µg/L	< 0.5 µg/L			
Pourcentage recovery					
Dibromofluoromethane	103 %	102 %	103 %		
D8-Toluene	108 %	107 %	105 %		
1-Bromo-4-fluorobenzene	102 %	102 %	104 %		

Method: Composés organiques halogénés totaux par CG-SM / Total halides organic compounds by GC-MS.

Note: These results apply only to the sample analysed

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Certificate of analysis

Sample Identification

Identification:	SP-3	Date sampled:	2001-05-11
		Site sampled:	PB6
Work request no.	104106	Sampled by:	GEJ
Laboratory No.:	481471	Type:	leachate

MAH	Sample	Blank	Certified Control Obtained	Certified Control Expected	Duplicate
Date prepared	01-05-25	01-05-25	01-05-25		
Date analysed	01-05-25	01-05-25	01-05-25		
Benzene	< 2.0 µg/L	< 0.1 µg/L	17 µg/L	(11.7-17.7)	
Toluene	< 2.0 µg/L	< 0.1 µg/L	33 µg/L	(24.5-35.6)	
Ethylbenzene	< 2.0 µg/L	< 0.1 µg/L	58 µg/L	(44.9-69.8)	
Chlorobenzene	< 2.0 µg/L	< 0.1 µg/L	28 µg/L	(22.6-32.8)	
Xylenes	< 2.0 µg/L	< 0.1 µg/L			
Styrene	< 2.0 µg/L	< 0.1 µg/L	18 µg/L	(15.3-25)	
1,3-Dichlorobenzene	< 2.0 µg/L	< 0.1 µg/L	32 µg/L	(25.6-37.4)	
1,4-Dichlorobenzene	< 2.0 µg/L	< 0.1 µg/L	16 µg/L	(12.9-19.8)	
1,2-Dichlorobenzene	< 2.0 µg/L	< 0.1 µg/L	31 µg/L	(28.8-42.4)	
Pourcentage recovery					
Dibromofluoromethane	103 %	102 %	103 %		
D8-Toluene	108 %	107 %	105 %		
1-Bromo-4-fluorobenzene	102 %	102 %	104 %		

Method: Composés organiques volatils par CG-SM / Volatile organic compounds by GC-MS.

Petroleum Hydrocarbons (C10-C24)	Sample	Blank	Certified Control Obtained	Certified Control Expected	Duplicate
Date prepared	01-05-18	01-05-18	01-05-18		
Date analysed	01-05-22	01-05-22	01-05-22		
Petroleum Hydrocarbons (C10-C24)	< 50 µg/L	< 50 µg/L	1200 µg/L	(1100-2800)	

Method: Hydrocarbure pétrolier par CG-DIF / Petroleum hydrocarbon by GC-FID.

Petroleum Hydrocarbons (C5-C10)	Sample	Blank	Certified Control Obtained	Certified Control Expected	Duplicate
Date prepared	01-05-25	01-05-25	01-05-25		
Date analysed	01-05-25	01-05-25	01-05-25		
Petroleum Hydrocarbons (C5-C10)	< 500 µg/L	<25 µg/L	4500 µg/L	(3500-6500)	

Method: Hydrocarbure pétrolier par CG-DIF / Petroleum hydrocarbon by GC-FID.

Note: These results apply only to the sample analysed

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121, BOUL. HYMUS, POINTE-CLAIRE, QUÉBEC H9R 1E6 • TÉL.: (514) 697-3273 • FAX: (514) 697-2090

Certificate of analysis

Sample Identification

Identification:	SP-3	Date sampled:	2001-05-11
		Site sampled:	PB6
Work request no	104106	Sampled by.	GEJ
Laboratory No.:	481471	Type:	leachate

Chlorinated Phenolic Compounds	Sample	Blank	Certified Control Obtained	Certified Control Expected	Duplicate
Date prepared	01-05-18	01-05-18	01-05-18		
Date analysed	01-05-18	01-05-18	01-05-18		
2-Chlorophenol	< 1.0 µg/L	< 1.0 µg/L	0 9 µg/L	(0.6-1.6)	
3-Chlorophenol	< 1.0 µg/L	< 1.0 µg/L			
4-Chlorophenol	< 1.0 µg/L	< 1 0 µg/L			
2,3-Dichlorophenol	< 1.0 µg/L	< 1.0 µg/L			
2,4-Dichlorophenol	< 1.0 µg/L	< 1.0 µg/L			
2,5-Dichlorophenol	< 1.0 µg/L	< 1.0 µg/L			
2,6-Dichlorophenol	< 1.0 µg/L	< 1.0 µg/L			
3,4 Dichlorophenol	< 1.0 µg/L	< 1.0 µg/L			
3,5-Dichlorophenol	< 1.0 µg/L	< 1.0 µg/L			
2,3,4-Trichlorophenol	< 1.0 µg/L	< 1.0 µg/L			
2,3,5-Trichlorophenol	< 1.0 µg/L	< 1.0 µg/L			
2,3,6-Trichlorophenol	< 1.0 µg/L	< 1.0 µg/L			
2,4,5-Trichlorophenol	< 1.0 µg/L	< 1.0 µg/L			
2,4,6-Trichlorophenol	< 1.0 µg/L	< 1.0 µg/L			
3,4,5-Trichlorophenol	< 1.0 µg/L	< 1.0 µg/L			
2,3,4,5-Tetrachlorophenol	< 1.0 µg/L	< 1.0 µg/L			
2,3,4,6-Tetrachlorophenol	< 1.0 µg/L	< 1.0 µg/L			
2,3,5,6-Tetrachlorophenol	< 1.0 µg/L	< 1.0 µg/L			
Pentachlorophenol	< 1.0 µg/L	< 1.0 µg/L	3.4 µg/L	(1.4-4)	
Pourcentage recovery					
D3-2,4-dichlorophenol	67 %	68 %	70 %		
C13-Pentachlorophenol	92 %	96 %	62 %		
D2-2,4,6-Trichlorophenol	60 %	62 %	110 %		

Method: Composés semi-volatils par CG-SM / Semi-volatile Organic compounds by GC-MS.

Note: These results apply only to the sample analysed

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Certificate of analysis

Sample identification

Identification:	SP-3	Date sampled:	2001-05-11
		Site sampled:	PB6
Work request no.	104106	Sampled by:	GEJ
Laboratory No.:	481471	Type:	leachate

Non Chlorinated Phenolic Compounds	Sample	Blank	Certified Control Obtained	Certified Control Expected	Duplicate
Date prepared	01-05-18	01-05-18	01-05-18		
Date analysed	01-05-18	01-05-18	01-05-18		
Phenol	< 1.0 µg/L	< 1.0 µg/L	0.4 µg/L	(0-1.5)	
o-Cresol	< 1.0 µg/L	< 1.0 µg/L			
m-Cresol	< 1.0 µg/L	< 1.0 µg/L			
p-Cresol	< 1.0 µg/L	< 1.0 µg/L			
2-Nitrophenol	< 1.0 µg/L	< 1.0 µg/L	2.2 µg/L	(0.6-2.9)	
2,4-Dimethylphenol	< 1.0 µg/L	< 1.0 µg/L			
2,4-Dinitrophenol	< 1.0 µg/L	< 1.0 µg/L			
4-Nitrophenol	< 1.0 µg/L	< 1.0 µg/L	1.7 µg/L	(0-4)	
2-Methyl-4,6-Dinitrophenol	< 1.0 µg/L	< 1.0 µg/L			
Pourcentage recovery					
D3-2,4-dichlorophenol	67 %	68 %	70 %		
C13-Pentachlorophenol	92 %	96 %	62 %		
D2-2,4,6-Trichlorophenol	60 %	62 %	110 %		

Method: Composés semi-volatils par CG-SM / Semi-volatile Organic compounds by GC-MS.

Comment: Blank for the zinc non-conform (>3xMQL).
Non-conformities: None

Note: These results apply only to the sample analysed

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Certificate of analysis

Sample Identification

Identification:	SP-4	Date sampled:	2001-05-11
		Site sampled:	PB6
Work request no.	104106	Sampled by:	GEJ
Laboratory No.:	481472	Type:	leachate

Analytical and quality control results

Cadmium	Sample	Blank	Certified Control Obtained	Certified Control Expected	Duplicate
Date prepared	01-05-17	01-05-17	01-05-17		
Date analysed	01-05-17	01-05-17	01-05-17		
Cadmium	0.24 mg/L	< 0.01 mg/L	1.0 mg/L	(0.85-1.15)	

Analytical Equipement ICP-IRIS

Method: Métaux par ICP / Metals by ICP-IRIS

Chromium	Sample	Blank	Certified Control Obtained	Certified Control Expected	Duplicate
Date prepared	01-05-17	01-05-17	01-05-17		
Date analysed	01-05-17	01-05-17	01-05-17		
Chromium	< 0.01 mg/L	< 0.01 mg/L	0.90 mg/L	(0.85-1.15)	

Analytical Equipement ICP-IRIS

Method: Métaux par ICP / Metals by ICP-IRIS

Copper	Sample	Blank	Certified Control Obtained	Certified Control Expected	Duplicate
Date prepared	01-05-17	01-05-17	01-05-17		
Date analysed	01-05-17	01-05-17	01-05-17		
Copper	0.070 mg/L	< 0.001 mg/L	0.96 mg/L	(0.85-1.15)	

Analytical Equipement ICP-IRIS

Method: Métaux par ICP / Metals by ICP-IRIS

Nickel	Sample	Blank	Certified Control Obtained	Certified Control Expected	Duplicate
Date prepared	01-05-17	01-05-17	01-05-17		
Date analysed	01-05-17	01-05-17	01-05-17		
Nickel	0.03 mg/L	< 0.01 mg/L	0.95 mg/L	(0.85-1.15)	

Analytical Equipement ICP-IRIS

Method: Métaux par ICP / Metals by ICP-IRIS

Note: These results apply only to the sample analysed

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Certificate of analysis

Sample Identification

Identification:	SP-4	Date sampled:	2001-05-11
		Site sampled:	PB6
Work request no.	104106	Sampled by:	GEJ
Laboratory No.:	481472	Type:	leachate

Lead	Sample	Blank	Certified Control Obtained	Certified Control Expected	Duplicate
Date prepared	01-05-17	01-05-17	01-05-17		
Date analysed	01-05-17	01-05-17	01-05-17		
Lead	0.15 mg/L	< 0.01 mg/L	0.99 mg/L	(0.85-1.15)	

Analytical Equipement ICP-IRIS

Method: Métaux par ICP / Metals by ICP-IRIS

Zinc	Sample	Blank	Certified Control Obtained	Certified Control Expected	Duplicate
Date prepared	01-05-17	01-05-17	01-05-17		
Date analysed	01-05-17	01-05-17	01-05-17		
Zinc	2.9 mg/L	0.05 mg/L	0.98 mg/L	(0.85-1.15)	

Analytical Equipement ICP-IRIS

Method: Métaux par ICP / Metals by ICP-IRIS

Petroleum Hydrocarbons (C25-C34)	Sample	Blank	Certified Control Obtained	Certified Control Expected	Duplicate
Date Prepared	01-05-18	01-05-18			
Date Analysed	01-05-22	01-05-18			
Petroleum Hydrocarbons (C25-C34)	< 50 µg/L	< 50 µg/L			

Method: Hydrocarbure pétrolier par CG-DIF / Petroleum hydrocarbon by GC-FID.

Note: These results apply only to the sample analysed

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Certificate of analysis

Sample Identification

Identification:	SP-4	Date sampled:	2001-05-11
		Site sampled:	PB6
Work request no.	104106	Sampled by:	GEJ
Laboratory No.:	481472	Type:	leachate

Polyaromatic Hydrocarbons	Sample	Blank	Certified Control Obtained	Certified Control Expected	Duplicate
Date prepared	01-05-18	01-05-18	01-05-18		
Date analysed	01-05-18	01-05-18	01-05-18		
Naphthalene	0.2 µg/L	< 0.1 µg/L	1.6 µg/L	(0.41-1.8)	
Acenaphthylene	< 0.1 µg/L	< 0.1 µg/L			
Acenaphthene	< 0.1 µg/L	< 0.1 µg/L	0.9 µg/L	(0.21-1.3)	
Fluorene	< 0.1 µg/L	< 0.1 µg/L	1.6 µg/L	(0.58-2.1)	
Dibenzo(a,h)Anthracene	< 0.1 µg/L	< 0.1 µg/L			
Phenanthrene	0.2 µg/L	< 0.1 µg/L	1.3 µg/L	(0-2)	
Anthracene	< 0.1 µg/L	< 0.1 µg/L	1.6 µg/L	(0.29-2)	
Fluoranthene	0.1 µg/L	< 0.1 µg/L	1.7 µg/L	(0.34-2.1)	
Pyrene	< 0.1 µg/L	< 0.1 µg/L	1.6 µg/L	(0.8-1.7)	
7,12-Dimethylbenzoanthracene	< 0.1 µg/L	< 0.1 µg/L			
Benzo(g,h,i)perylene	< 0.1 µg/L	< 0.1 µg/L			
Benzo(c)phenanthrene	< 0.1 µg/L	< 0.1 µg/L			
Chrysene	< 0.1 µg/L	< 0.1 µg/L	1.0 µg/L	(0.38-1)	
Benzo(a)anthracene	< 0.1 µg/L	< 0.1 µg/L			
Benzo(b,j,k)fluoranthene	< 0.1 µg/L	< 0.1 µg/L			
Benzo(a)pyrene	< 0.1 µg/L	< 0.1 µg/L			
3-Methylcholanthrene	< 0.1 µg/L	< 0.1 µg/L			
Indeno (1,2,3-cd) Pyrene	< 0.1 µg/L	< 0.1 µg/L			
Dibenzo (a,l) pyrene	< 0.1 µg/L	< 0.1 µg/L			
Dibenzo (a,i) pyrene	< 0.1 µg/L	< 0.1 µg/L			
Dibenzo (a,h) pyrene	< 0.1 µg/L	< 0.1 µg/L			
Pourcentage recovery					
D10-Fluorene	88 %	70 %	75 %		
D10-pyrene	89 %	78 %	88 %		
D12-Benzo[a]pyrene	79 %	60 %	68 %		

Method: *Composés semi-volatils par CG-SM / Semi-volatile Organic compounds by GC-MS.*

Note: These results apply only to the sample analysed

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Certificate of analysis

Sample Identification

Identification:	SP-4	Date sampled:	2001-05-11
		Site sampled:	PB6
Work request no.	104106	Sampled by:	GEJ
Laboratory No.:	481472	Type:	leachate

THH	Sample	Blank	Certified Control Obtained	Certified Control Expected	Duplicate
Date prepared	01-05-25	01-05-25	01-05-25		
Date analysed	01-05-25	01-05-25	01-05-25		
Chloroform	< 2.0 µg/L	< 0.1 µg/L	40 µg/L	(28.3-42.3)	
1,1-Dichloroethane	< 2.0 µg/L	< 0.1 µg/L			
1,1-Dichloroethene	< 2.0 µg/L	< 0.1 µg/L			
1,2-Dichloroethane	< 2.0 µg/L	< 0.1 µg/L	55 µg/L	(41.9-64.3)	
1,2-Dichloroethene (t+c)	< 2.0 µg/L	< 0.1 µg/L	27 µg/L	(18.4-33.1)	
1,2-Dichloropropane	< 2.0 µg/L	< 0.1 µg/L			
1,3-Dichloropropene (t+c)	< 2.0 µg/L	< 0.1 µg/L			
Dichloromethane	< 2.0 µg/L	0.2 µg/L	25 µg/L	(16.6-27.8)	
1,1,2,2-Tetrachloroethane	< 2.0 µg/L	< 0.1 µg/L			
Tetrachloroethene	< 2.0 µg/L	< 0.1 µg/L	67 µg/L	(53.8-82.7)	
Carbon Tetrachloride	< 2.0 µg/L	< 0.1 µg/L	32 µg/L	(24.1-41)	
1,1,1-Trichloroethane	< 2.0 µg/L	< 0.1 µg/L	33 µg/L	(23.4-37.1)	
1,1,2-Trichloroethane	< 2.0 µg/L	< 0.1 µg/L			
Trichloroethene	< 2.0 µg/L	< 0.1 µg/L	20 µg/L	(14.4-22.5)	
Vinyl Chloride	< 10 µg/L	< 0.5 µg/L			
Hexachloroethane	< 10 µg/L	< 0.5 µg/L			
Pentachloroethane	< 10 µg/L	< 0.5 µg/L			
Pourcentage recovery					
Dibromofluoromethane	91 %	102 %	103 %		
D8-Toluene	93 %	107 %	105 %		
1-Bromo-4-fluorobenzene	93 %	102 %	104 %		

Method: Composés organiques halogènes totaux par CG-SM / Total halides organic compounds by GC-MS.

Note: These results apply only to the sample analysed

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Certificate of analysis

Sample Identification

Identification:	SP-4	Date sampled:	2001-05-11
		Site sampled:	PB6
Work request no.	104106	Sampled by:	GEJ
Laboratory No.:	481472	Type:	leachate

MAH	Sample	Blank	Certified Control Obtained	Certified Control Expected	Duplicate
Date prepared	01-05-25	01-05-25	01-05-25		
Date analysed	01-05-25	01-05-25	01-05-25		
Benzene	< 2.0 µg/L	< 0.1 µg/L	17 µg/L	(11.7-17.7)	
Toluene	< 2.0 µg/L	< 0.1 µg/L	33 µg/L	(24.5-35.6)	
Ethylbenzene	< 2.0 µg/L	< 0.1 µg/L	58 µg/L	(44.9-69.8)	
Chlorobenzene	< 2.0 µg/L	< 0.1 µg/L	28 µg/L	(22.6-32.8)	
Xylenes	< 2.0 µg/L	< 0.1 µg/L			
Styrene	< 2.0 µg/L	< 0.1 µg/L	18 µg/L	(15.3-25)	
1,3-Dichlorobenzene	< 2.0 µg/L	< 0.1 µg/L	32 µg/L	(25.6-37.4)	
1,4-Dichlorobenzene	< 2.0 µg/L	< 0.1 µg/L	16 µg/L	(12.9-19.8)	
1,2-Dichlorobenzene	< 2.0 µg/L	< 0.1 µg/L	31 µg/L	(28.8-42.4)	
Pourcentage recovery					
Dibromofluoromethane	91 %	102 %	103 %		
D8-Toluene	93 %	107 %	105 %		
1-Bromo-4-fluorobenzene	93 %	102 %	104 %		

Method: Composés organiques volatils par CG-SM / Volatile organic compounds by GC-MS.

Petroleum Hydrocarbons (C10-C24)	Sample	Blank	Certified Control Obtained	Certified Control Expected	Duplicate
Date prepared	01-05-18	01-05-18	01-05-18		
Date analysed	01-05-22	01-05-22	01-05-22		
Petroleum Hydrocarbons (C10-C24)	< 50 µg/L	< 50 µg/L	1200 µg/L	(1100-2800)	

Method: Hydrocarbure pétrolier par CG-DIF / Petroleum hydrocarbon by GC-FID.

Petroleum Hydrocarbons (C5-C10)	Sample	Blank	Certified Control Obtained	Certified Control Expected	Duplicate
Date prepared	01-05-25	01-05-25	01-05-25		
Date analysed	01-05-25	01-05-25	01-05-25		
Petroleum Hydrocarbons (C5-C10)	< 500 µg/L	<25 µg/L	4500 µg/L	(3500-6500)	

Method: Hydrocarbure pétrolier par CG-DIF / Petroleum hydrocarbon by GC-FID.

Note: These results apply only to the sample analysed

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Certificate of analysis

Sample Identification

Identification:	SP-4	Date sampled:	2001-05-11
		Site sampled:	PB6
Work request no.	104106	Sampled by:	GEJ
Laboratory No.:	481472	Type:	leachate

Chlorinated Phenolic Compounds	Sample	Blank	Certified Control Obtained	Certified Control Expected	Duplicate
Date prepared	01-05-18	01-05-18	01-05-18		
Date analysed	01-05-18	01-05-18	01-05-18		
2-Chlorophenol	< 1.0 µg/L	< 1.0 µg/L	0.9 µg/L	(0.6-1.6)	
3-Chlorophenol	< 1.0 µg/L	< 1.0 µg/L			
4-Chlorophenol	< 1.0 µg/L	< 1.0 µg/L			
2,3-Dichlorophenol	< 1.0 µg/L	< 1.0 µg/L			
2,4-Dichlorophenol	< 1.0 µg/L	< 1.0 µg/L			
2,5-Dichlorophenol	< 1.0 µg/L	< 1.0 µg/L			
2,6-Dichlorophenol	< 1.0 µg/L	< 1.0 µg/L			
3,4-Dichlorophenol	< 1.0 µg/L	< 1.0 µg/L			
3,5-Dichlorophenol	< 1.0 µg/L	< 1.0 µg/L			
2,3,4-Trichlorophenol	< 1.0 µg/L	< 1.0 µg/L			
2,3,5-Trichlorophenol	< 1.0 µg/L	< 1.0 µg/L			
2,3,6-Trichlorophenol	< 1.0 µg/L	< 1.0 µg/L			
2,4,5-Trichlorophenol	< 1.0 µg/L	< 1.0 µg/L			
2,4,6-Trichlorophenol	< 1.0 µg/L	< 1.0 µg/L			
3,4,5-Trichlorophenol	< 1.0 µg/L	< 1.0 µg/L			
2,3,4,5-Tetrachlorophenol	< 1.0 µg/L	< 1.0 µg/L			
2,3,4,6-Tetrachlorophenol	< 1.0 µg/L	< 1.0 µg/L			
2,3,5,6-Tetrachlorophenol	< 1.0 µg/L	< 1.0 µg/L			
Pentachlorophenol	< 1.0 µg/L	< 1.0 µg/L	3.4 µg/L	(1.4-4)	
Pourcentage recovery					
D3-2,4-dichlorophenol	81 %	88 %	70 %		
C13-Pentachlorophenol	98 %	96 %	62 %		
D2-2,4,6-Trichlorophenol	62 %	62 %	110 %		

Method: Composés semi-volatils par CG-SM / Semi-volatile Organic compounds by GC-MS.

Note: These results apply only to the sample analysed

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Certificate of analysis

Sample Identification

Identification:	**SP-4**	Date sampled:	2001-05-11
		Site sampled:	PBS
Work request no.	104108	Sampled by:	GEJ
Laboratory No.:	481472	Type:	leachate

Non Chlorinated Phenolic Compounds	Sample	Blank	Certified Control Obtained	Certified Control Expected	Duplicate
Date prepared	01-05-18	01-05-18	01-05-18		
Date analysed	01-05-18	01-05-18	01-05-18		
Phenol	< 1.0 µg/L	< 1.0 µg/L	0.4 µg/L	(0-1.5)	
o-Cresol	< 1.0 µg/L	< 1.0 µg/L			
m-Cresol	< 1.0 µg/L	< 1.0 µg/L			
p-Cresol	< 1.0 µg/L	< 1.0 µg/L			
2-Nitrophenol	< 1.0 µg/L	< 1.0 µg/L	2.2 µg/L	(0.6-2.9)	
2,4-Dimethylphenol	< 1.0 µg/L	< 1.0 µg/L			
2,4-Dinitrophenol	< 1.0 µg/L	< 1.0 µg/L			
4-Nitrophenol	< 1.0 µg/L	< 1.0 µg/L	1.7 µg/L	(0-4)	
2-Methyl-4,6-Dinitrophenol	< 1.0 µg/L	< 1.0 µg/L			
Pourcentage recovery					
D3-2,4-dichlorophenol	81 %	68 %	70 %		
C13-Pentachlorophenol	96 %	96 %	62 %		
D2-2,4,6-Trichlorophenol	62 %	82 %	110 %		

Method: Composés semi-volatils par CG-SM / Semi-volatile Organic compounds by GC-MS.

Comment: Blank for the zinc non-conform (>3xMQL).
Non-conformities: None

Note: These results apply only to the sample analysed

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Bodycote TECHNITROL INC.

121, BOUL. HYMUS, POINTE-CLAIRE, QUÉBEC H9R 1E6 • TÉL.: (514) 697-3273 • FAX: (514) 697-2090

Certificate of analysis

Sample Identification

Identification:	*SP-5*	Date sampled:	2001-05-11
		Site sampled:	PB6
Work request no.	104106	Sampled by:	GEJ
Laboratory No.:	481473	Type:	leachate

Analytical and quality control results

Cadmium	Sample	Blank	Certified Control Obtained	Certified Control Expected	Duplicate
Date prepared	01-05-17	01-05-17	01-05-17		01-05-17
Date analysed	01-05-17	01-05-17	01-05-17		01-05-17
Cadmium	0.12 mg/L	< 0.01 mg/L	1.0 mg/L	(0.85-1.15)	0.12 mg/L

Analytical Equipement ICP-IRIS

Method: Métaux par ICP / Metals by ICP-IRIS

Chromium	Sample	Blank	Certified Control Obtained	Certified Control Expected	Duplicate
Date prepared	01-05-17	01-05-17	01-05-17		01-05-17
Date analysed	01-05-17	01-05-17	01-05-17		01-05-17
Chromium	< 0.01 mg/L	< 0.01 mg/L	0.90 mg/L	(0.85-1.15)	< 0.01 mg/L

Analytical Equipement ICP-IRIS

Method: Métaux par ICP / Metals by ICP-IRIS

Copper	Sample	Blank	Certified Control Obtained	Certified Control Expected	Duplicate
Date prepared	01-05-17	01-05-17	01-05-17		01-05-17
Date analysed	01-05-17	01-05-17	01-05-17		01-05-17
Copper	0.050 mg/L	< 0.001 mg/L	0.96 mg/L	(0.85-1.15)	0.065 mg/L

Analytical Equipement ICP-IRIS

Method: Métaux par ICP / Metals by ICP-IRIS

Nickel	Sample	Blank	Certified Control Obtained	Certified Control Expected	Duplicate
Date prepared	01-05-17	01-05-17	01-05-17		01-05-17
Date analysed	01-05-17	01-05-17	01-05-17		01-05-17
Nickel	0.03 mg/L	< 0.01 mg/L	0.95 mg/L	(0.85-1.15)	0.03 mg/L

Analytical Equipement ICP-IRIS

Method: Métaux par ICP / Metals by ICP-IRIS

Note: These results apply only to the sample analysed

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Certificate of analysis

Sample Identification

Identification:	SP-5	Date sampled:	2001-05-11
		Site sampled:	PB6
Work request no.	104106	Sampled by:	GEJ
Laboratory No.:	481473	Type:	leachate

Lead	Sample	Blank	Certified Control Obtained	Certified Control Expected	Duplicate
Date prepared	01-05-17	01-05-17	01-05-17		01-05-17
Date analysed	01-05-17	01-05-17	01-05-17		01-05-17
Lead	0.08 mg/L	< 0.01 mg/L	0.99 mg/L	(0.85-1.15)	0.15 mg/L

Analytical Equipement ICP-IRIS

Method: Métaux par ICP / Metals by ICP-IRIS

Zinc	Sample	Blank	Certified Control Obtained	Certified Control Expected	Duplicate
Date prepared	01-05-17	01-05-17	01-05-17		01-05-17
Date analysed	01-05-17	01-05-17	01-05-17		01-05-17
Zinc	2.5 mg/L	0.05 mg/L	0.96 mg/L	(0.85-1.15)	2.6 mg/L

Analytical Equipement ICP-IRIS

Method: Métaux par ICP / Metals by ICP-IRIS

Petroleum Hydrocarbons (C25-C34)	Sample	Blank	Certified Control Obtained	Certified Control Expected	Duplicate
Date Prepared	01-05-18	01-05-18			
Date Analysed	01-05-22	01-05-18			
Petroleum Hydrocarbons (C25-C34)	< 50 µg/L	< 50 µg/L			

Method: Hydrocarbure pétrolier par CG-DIF / Petroleum hydrocarbon by GC-FID.

Note: These results apply only to the sample analysed

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Certificate of analysis

Sample Identification

Identification:	SP-5	Date sampled:	2001-05-11
		Site sampled:	PB6
Work request no.	104106	Sampled by:	GEJ
Laboratory No.:	481473	Type:	leachate

Polyaromatic Hydrocarbons	Sample	Blank	Certified Control Obtained	Certified Control Expected	Duplicate
Date prepared	01-05-18	01-05-18	01-05-18		
Date analysed	01-05-18	01-05-18	01-05-18		
Naphthalene	1.4 µg/L	< 0.1 µg/L	1.6 µg/L	(0.41-1.8)	
Acenaphthylene	< 0.1 µg/L	< 0.1 µg/L			
Acenaphthene	< 0.1 µg/L	< 0.1 µg/L	0.9 µg/L	(0.21-1.3)	
Fluorene	< 0.1 µg/L	< 0.1 µg/L	1.6 µg/L	(0.58-2.1)	
Dibenzo(a,h)Anthracene	< 0.1 µg/L	< 0.1 µg/L			
Phenanthrene	0.2 µg/L	< 0.1 µg/L	1.3 µg/L	(0-2)	
Anthracene	< 0.1 µg/L	< 0.1 µg/L	1.6 µg/L	(0.29-2)	
Fluoranthene	0.1 µg/L	< 0.1 µg/L	1.7 µg/L	(0.34-2.1)	
Pyrene	< 0.1 µg/L	< 0.1 µg/L	1.6 µg/L	(0.8-1.7)	
7,12-Dimethylbenzoanthracene	< 0.1 µg/L	< 0.1 µg/L			
Benzo(g,h,i)perylene	< 0.1 µg/L	< 0.1 µg/L			
Benzo(c)phenanthrene	< 0.1 µg/L	< 0.1 µg/L			
Chrysene	< 0.1 µg/L	< 0.1 µg/L	1.0 µg/L	(0.38-1)	
Benzo(a)anthracene	< 0.1 µg/L	< 0.1 µg/L			
Benzo(b,j,k)fluoranthene	< 0.1 µg/L	< 0.1 µg/L			
Benzo(a)pyrene	< 0.1 µg/L	< 0.1 µg/L			
3-Methylcholanthrene	< 0.1 µg/L	< 0.1 µg/L			
Indeno (1,2,3-cd) Pyrene	< 0.1 µg/L	< 0.1 µg/L			
Dibenzo (a,l) pyrene	< 0.1 µg/L	< 0.1 µg/L			
Dibenzo (a,i) pyrene	< 0.1 µg/L	< 0.1 µg/L			
Dibenzo (a,h) pyrene	< 0.1 µg/L	< 0.1 µg/L			
Pourcentage recovery					
D10-Fluorene	80 %	70 %	75 %		
D10-pyrene	82 %	78 %	88 %		
D12-Benzo[a]pyrene	76 %	60 %	68 %		

Method: Composés semi-volatils par CG-SM / Semi-volatile Organic compounds by GC-MS.

Note: These results apply only to the sample analysed

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Certificate of analysis

Sample Identification

Identification:	SP-5	Date sampled:	2001-05-11
		Site sampled:	PB6
Work request no.	104106	Sampled by:	GEJ
Laboratory No.:	481473	Type:	leachate

THH	Sample	Blank	Certified Control Obtained	Certified Control Expected	Duplicate
Date prepared	01-05-25	01-05-25	01-05-25		
Date analysed	01-05-25	01-05-25	01-05-25		
Chloroform	< 2.0 µg/L	< 0.1 µg/L	40 µg/L	(28.3-42.3)	
1,1-Dichloroethane	< 2.0 µg/L	< 0.1 µg/L			
1,1-Dichloroethene	< 2.0 µg/L	< 0.1 µg/L			
1,2-Dichloroethane	< 2.0 µg/L	< 0.1 µg/L	55 µg/L	(41.9-64.3)	
1,2-Dichloroethene (t+c)	< 2.0 µg/L	< 0.1 µg/L	27 µg/L	(18.4-33.1)	
1,2-Dichloropropane	< 2.0 µg/L	< 0.1 µg/L			
1,3-Dichloropropene (t+c)	< 2.0 µg/L	< 0.1 µg/L			
Dichloromethane	< 2.0 µg/L	0.2 µg/L	25 µg/L	(16.6-27.8)	
1,1,2,2-Tetrachloroethane	< 2.0 µg/L	< 0.1 µg/L			
Tetrachloroethene	< 2.0 µg/L	< 0.1 µg/L	67 µg/L	(53.8-82.7)	
Carbon Tetrachloride	< 2.0 µg/L	< 0.1 µg/L	32 µg/L	(24.1-41)	
1,1,1-Trichloroethane	< 2.0 µg/L	< 0.1 µg/L	33 µg/L	(23.4-37.1)	
1,1,2-Trichloroethane	< 2.0 µg/L	< 0.1 µg/L			
Trichloroethene	< 2.0 µg/L	< 0.1 µg/L	20 µg/L	(14.4-22.5)	
Vinyl Chloride	< 10 µg/L	< 0.5 µg/L			
Hexachloroethane	< 10 µg/L	< 0.5 µg/L			
Pentachloroethane	< 10 µg/L	< 0.5 µg/L			
Pourcentage recovery					
Dibromofluoromethane	98 %	102 %	103 %		
D8-Toluene	101 %	107 %	105 %		
1-Bromo-4-fluorobenzene	101 %	102 %	104 %		

Method: Composés organiques halogènes totaux par CG-SM / Total halides organic compounds by GC-MS.

Note: These results apply only to the sample analysed

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Certificate of analysis

Sample Identification

Identification:	SP-5	Date sampled:	2001-05-11
		Site sampled:	PB6
Work request no.	104106	Sampled by:	GEJ
Laboratory No.:	481473	Type:	leachate

MAH	Sample	Blank	Certified Control Obtained	Certified Control Expected	Duplicate
Date prepared	01-05-25	01-05-25	01-05-25		
Date analysed	01-05-25	01-05-25	01-05-25		
Benzene	< 2.0 µg/L	< 0.1 µg/L	17 µg/L	(11.7-17.7)	
Toluene	< 2.0 µg/L	< 0.1 µg/L	33 µg/L	(24.5-35.6)	
Ethylbenzene	< 2.0 µg/L	< 0.1 µg/L	58 µg/L	(44.9-69.8)	
Chlorobenzene	< 2.0 µg/L	< 0.1 µg/L	28 µg/L	(22.6-32.8)	
Xylenes	< 2.0 µg/L	< 0.1 µg/L			
Styrene	< 2.0 µg/L	< 0.1 µg/L	18 µg/L	(15.3-25)	
1,3-Dichlorobenzene	< 2.0 µg/L	< 0.1 µg/L	32 µg/L	(25.6-37.4)	
1,4-Dichlorobenzene	< 2.0 µg/L	< 0.1 µg/L	16 µg/L	(12.9-19.8)	
1,2-Dichlorobenzene	< 2.0 µg/L	< 0.1 µg/L	31 µg/L	(28.8-42.4)	
Pourcentage recovery					
Dibromofluoromethane	98 %	102 %	103 %		
D8-Toluene	101 %	107 %	105 %		
1-Bromo-4-fluorobenzene	101 %	102 %	104 %		

Method: Composés organiques volatils par CG-SM / Volatile organic compounds by GC-MS.

Petroleum Hydrocarbons (C10-C24)	Sample	Blank	Certified Control Obtained	Certified Control Expected	Duplicate
Date prepared	01-05-18	01-05-18	01-05-18		
Date analysed	01-05-22	01-05-22	01-05-22		
Petroleum Hydrocarbons (C10-C24)	< 50 µg/L	< 50 µg/L	1200 µg/L	(1100-2800)	

Method: Hydrocarbure pétrolier par CG-DIF / Petroleum hydrocarbon by GC-FID.

Petroleum Hydrocarbons (C5-C10)	Sample	Blank	Certified Control Obtained	Certified Control Expected	Duplicate
Date prepared	01-05-25	01-05-25	01-05-25		
Date analysed	01-05-25	01-05-25	01-05-25		
Petroleum Hydrocarbons (C5-C10)	< 500 µg/L	<25 µg/L	4500 µg/L	(3500-6500)	

Method: Hydrocarbure pétrolier par CG-DIF / Petroleum hydrocarbon by GC-FID.

Note: These results apply only to the sample analysed

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Certificate of analysis

Sample Identification

Identification:	SP-5	Date sampled:	2001-05-11
		Site sampled:	PB6
Work request no.	104106	Sampled by:	GEJ
Laboratory No.:	481473	Type:	leachate

Chlorinated Phenolic Compounds	Sample	Blank	Certified Control Obtained	Certified Control Expected	Duplicate
Date prepared	01-05-18	01-05-18	01-05-18		
Date analysed	01-05-18	01-05-18	01-05-18		
2-Chlorophenol	< 1.0 µg/L	< 1.0 µg/L	0.9 µg/L	(0.6-1.6)	
3-Chlorophenol	< 1.0 µg/L	< 1.0 µg/L			
4-Chlorophenol	< 1.0 µg/L	< 1.0 µg/L			
2,3-Dichlorophenol	< 1.0 µg/L	< 1.0 µg/L			
2,4-Dichlorophenol	< 1.0 µg/L	< 1.0 µg/L			
2,5-Dichlorophenol	< 1.0 µg/L	< 1.0 µg/L			
2,6-Dichlorophenol	< 1.0 µg/L	< 1.0 µg/L			
3,4-Dichlorophenol	< 1.0 µg/L	< 1.0 µg/L			
3,5-Dichlorophenol	< 1.0 µg/L	< 1.0 µg/L			
2,3,4-Trichlorophenol	< 1.0 µg/L	< 1.0 µg/L			
2,3,5-Trichlorophenol	< 1.0 µg/L	< 1.0 µg/L			
2,3,6-Trichlorophenol	< 1.0 µg/L	< 1.0 µg/L			
2,4,5-Trichlorophenol	< 1.0 µg/L	< 1.0 µg/L			
2,4,6-Trichlorophenol	< 1.0 µg/L	< 1.0 µg/L			
3,4,5-Trichlorophenol	< 1.0 µg/L	< 1.0 µg/L			
2,3,4,5-Tetrachlorophenol	< 1.0 µg/L	< 1.0 µg/L			
2,3,4,6-Tetrachlorophenol	< 1.0 µg/L	< 1.0 µg/L			
2,3,5,6-Tetrachlorophenol	< 1.0 µg/L	< 1.0 µg/L			
Pentachlorophenol	< 1.0 µg/L	< 1.0 µg/L	3.4 µg/L	(1.4-4)	
Pourcentage recovery					
D3-2,4-dichlorophenol	73 %	68 %	70 %		
C13-Pentachlorophenol	92 %	96 %	82 %		
D2-2,4,6-Trichlorophenol	58 %	62 %	110 %		

Method: Composes semi-volatils par CG-SM / Semi-volatile Organic compounds by GC-MS.

Note: These results apply only to the sample analysed

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Certificate of analysis

Sample Identification

Identification:	**SP-5**	Date sampled:	2001-05-11
		Site sampled:	PB6
Work request no.	104106	Sampled by:	GEJ
Laboratory No.:	481473	Type:	leachate

Non Chlorinated Phenolic Compounds	Sample	Blank	Certified Control Obtained	Certified Control Expected	Duplicate
Date prepared	01-05-18	01-05-18	01-05-18		
Date analysed	01-05-18	01-05-18	01-05-18		
Phenol	< 1.0 µg/L	< 1.0 µg/L	0.4 µg/L	(0-1.5)	
o-Cresol	< 1.0 µg/L	< 1.0 µg/L			
m-Cresol	< 1.0 µg/L	< 1.0 µg/L			
p-Cresol	< 1.0 µg/L	< 1.0 µg/L			
2-Nitrophenol	< 1.0 µg/L	< 1.0 µg/L	2.2 µg/L	(0.6-2.9)	
2,4-Dimethylphenol	< 1.0 µg/L	< 1.0 µg/L			
2,4-Dinitrophenol	< 1.0 µg/L	< 1.0 µg/L			
4-Nitrophenol	< 1.0 µg/L	< 1.0 µg/L	1.7 µg/L	(0-4)	
2-Methyl-4,6-Dinitrophenol	< 1.0 µg/L	< 1.0 µg/L			
Pourcentage recovery					
D3-2,4-dichlorophenol	73 %	68 %	70 %		
C13-Pentachlorophenol	92 %	96 %	62 %		
D2-2,4,6-Trichlorophenol	58 %	62 %	110 %		

Method: Composés semi-volatils par CG-SM / Semi-volatile Organic compounds by GC-MS.

Comment: Blank for the zinc non-conform (>3xMQL). Duplicata for the lead non-conform (over >15%).
Non-conformities: None

CHIMISTE Yves Moras 94-006 QUÉBEC

Chemist

Note: These results apply only to the sample analysed

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Bodycote Material Testing Canada Inc.

121 Hymus Boulevard, Pointe-Claire, Qc, H9R 1E6
Tel: (514) 697-3273 Fax: (514) 697-2090

Fax To: **Dennis Hunter**

Fax #: 1 (865) 584-0282

From: Pamela Wishart, Quality Manager

Date: June 11, 2001

Page 1 of 1

SUBJECT: MISSING METALS

104106-	481469 SP-1	481470 SP-2	481471 SP-3	481472 SP-4	481473 SP-5
Ag (mg/L)	<0.02	<0.02	<0.02	<0 02	<0.02
As (mg/L)	0.02	0.05	0.15	0.06	0.03
Ba (mg/L)	0.51	0.81	0.83	0.70	0.97
Hg (mg/L)	<0.1	<0.1	<0.1	<0.1	<0.1
Se (mg/L)	<0.01	<0.01	<0.01	<0.01	<0.01

All QC data were OK.

If you have any questions, give me a call and if I'm not at my desk ask the receptionist to page me.

We'll send you the certificates together with those faxed on Friday later this week.

Pam Wishart

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