

**ATTACHMENT C :
LABORATORY ANALYTICAL REPORTS
(EML LABORATORIES PTY LTD AND MGT
ENVIRONMENTAL PTY LTD)**



EML (CHEM) PTY LTD

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Report No: N123884

Page: 1 of 4

Date: 8 August 2007

URS Australia
Level 6
1 Southbank Boulevard
SOUTHBANK VIC 3006

Attention: Ms Amelia Lavis

Dear Madam,

**Re: Analysis of Water Samples ex Brooklyn Landfill
Project No. 43270821**

Sample Description	MB 1 25/7/07 (Decanted)	MB 2 25/7/07 (Decanted)	MB 3 25/7/07	MB 4 25/7/07	MB 6 25/7/07 (Decanted)
Date Received	26/07/2007	26/07/2007	26/07/2007	26/07/2007	26/07/2007
EML Lab No.	17412	17413	17414	17415	17416

Analyte	Unit	Method	MB 1 25/7/07 (Decanted)	MB 2 25/7/07 (Decanted)	MB 3 25/7/07	MB 4 25/7/07	MB 6 25/7/07 (Decanted)
Calcium as Ca	mg/L	cations	300	130	61	46	130
Magnesium as Mg	mg/L	cations	320	200	250	290	130
Sodium as Na	mg/L	cations	1700	1300	1400	1100	1000
Potassium as K	mg/L	cations	45	24	41	34	28
Chloride as Cl	mg/L	chloride	2800	2200	2000	2100	1900
Sulphate as SO4	mg/L	so4	1400	610	980	670	480
Total Dissolved Solids (Evaporation @ 105C)	mg/L	1001a	7400	5200	5200	5200	4200
Bicarbonate Alkalinity as HCO3	mg/L	alk	790	420	570	430	310
Nitrate Nitrogen as N	mg/L	no3	<0.2	<0.2	<0.2	<0.2	<0.2

Sample Description	QC 01 25/7/07 (Decanted)	MB 1 25/7/07 +H2SO4 (Decanted)	MB 2 25/7/07 +H2SO4 (Decanted)	MB 3 25/7/07 +H2SO4	MB 4 25/7/07 +H2SO4
Date Received	26/07/2007	26/07/2007	26/07/2007	26/07/2007	26/07/2007
EML Lab No.	17417	17418	17419	17420	17421

Analyte	Unit	Method	QC 01 25/7/07 (Decanted)
Calcium as Ca	mg/L	cations	130
Magnesium as Mg	mg/L	cations	210



NATA Accreditation No. 2731

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EML GROUP OF LABORATORIES

Consulting Chemists and Microbiologists MELBOURNE • SYDNEY



Report prepared for URS Australia

Continuation of Results:

Sample Description	QC 01 25/7/07 (Decanted)	MB 1 25/7/07 +H2SO4 (Decanted)	MB 2 25/7/07 +H2SO4 (Decanted)	MB 3 25/7/07 +H2SO4	MB 4 25/7/07 +H2SO4
Date Received	26/07/2007	26/07/2007	26/07/2007	26/07/2007	26/07/2007
EML Lab No.	17417	17418	17419	17420	17421

Analyte	Unit	Method				
Sodium as Na	mg/L	cations	1200			
Potassium as K	mg/L	cations	24			
Chloride as Cl	mg/L	chloride	2200			
Sulphate as SO4	mg/L	so4	600			
Total Dissolved Solids (Evaporation @ 105C)	mg/L	1001a	5000			
Bicarbonate Alkalinity as HCO3	mg/L	alk	420			
Nitrate Nitrogen as N	mg/L	no3	<0.2			
Ammonia Nitrogen as N	mg/L	aorgkjin-ll		<0.01	0.08	<0.01
Kjeldahl Nitrogen as N	mg/L	aorgkjin-ll		1.3	0.21	0.52
Total Organic Carbon	mg/L	toc		22	4.4	8.4

Sample Description	MB 6 25/7/07 +H2SO4 (Decanted)	QC 01 25/7/07 +H2SO4 (Decanted)	MB 1 25/7/07 +HNO3 Filtered	MB 2 25/7/07 +HNO3 Filtered	MB 3 25/7/07 +HNO3 Filtered
Date Received	26/07/2007	26/07/2007	26/07/2007	26/07/2007	26/07/2007
EML Lab No.	17422	17423	17424	17425	17426

Analyte	Unit	Method				
Ammonia Nitrogen as N	mg/L	aorgkjin-ll	0.02	0.08		
Kjeldahl Nitrogen as N	mg/L	aorgkjin-ll	0.54	0.18		
Total Organic Carbon	mg/L	toc	7.9	4.1		
Total Iron as Fe	mg/L	metals			0.11	0.03
Total Manganese as Mn	mg/L	metals			0.40	0.07

Sample Description	MB 4 25/7/07 +HNO3 Filtered	MB 6 25/7/07 +HNO3 Filtered	QC 01 25/7/07 +HNO3 Filtered	MB 5 26/7/07 Decanted	MB 7 26/7/07 Decanted
Date Received	26/07/2007	26/07/2007	26/07/2007	26/07/2007	26/07/2007
EML Lab No.	17427	17428	17429	17463	17464

Analyte	Unit	Method				
Total Iron as Fe	mg/L	metals	0.43	0.07	0.04	
Total Manganese as Mn	mg/L	metals	0.08	0.09	0.07	
Calcium as Ca	mg/L	cations				160
Magnesium as Mg	mg/L	cations				500
Sodium as Na	mg/L	cations				1500
Potassium as K	mg/L	cations				34
Chloride as Cl	mg/L	chloride				3000
Sulphate as SO4	mg/L	so4				1200
Total Dissolved Solids (Evaporation @ 105C)	mg/L	1001a				8300



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Continuation of Results:

Sample Description	MB 4 25/7/07 +HNO3 Filtered	MB 6 25/7/07 +HNO3 Filtered	QC 01 25/7/07 +HNO3 Filtered	MB 5 26/7/07 Decanted	MB 7 26/7/07 Decanted
Date Received	26/07/2007	26/07/2007	26/07/2007	26/07/2007	26/07/2007
EML Lab No.	17427	17428	17429	17463	17464

Analyte	Unit	Method		
Bicarbonate Alkalinity as HCO3	mg/L	alk		1200 830
Nitrate Nitrogen as N	mg/L	no3		7.2 <0.2

Sample Description	MB 8 26/7/07 Decanted	LS1A 26/7/07	LS1B 26/7/07	QC 02 26/7/07	QC 03 26/7/07
Date Received	26/07/2007	26/07/2007	26/07/2007	26/07/2007	26/07/2007
EML Lab No.	17465	17466	17467	17468	17469

Analyte	Unit	Method					
Calcium as Ca	mg/L	cations	260	280	370		
Magnesium as Mg	mg/L	cations	200	260	300		
Sodium as Na	mg/L	cations	1500	2200	2100		
Potassium as K	mg/L	cations	86	53	120		
Chloride as Cl	mg/L	chloride	1700	2600	2400		
Sulphate as SO4	mg/L	so4	2600	2000	2100		
Total Dissolved Solids (Evaporation @ 105C)	mg/L	1001a	6700	8400	9100		
Bicarbonate Alkalinity as HCO3	mg/L	alk	190	2100	2600		
Nitrate Nitrogen as N	mg/L	no3	<0.2	<0.2	<0.2	<0.2	<0.2

Sample Description	MB 5 26/7/07 +H2SO4 Decanted	MB 7 26/7/07 +H2SO4 Decanted	MB 8 26/7/07 +H2SO4 Decanted	LS1A +H2SO4	LS1B +H2SO4
Date Received	26/07/2007	26/07/2007	26/07/2007	26/07/2007	26/07/2007
EML Lab No.	17470	17471	17472	17473	17474

Analyte	Unit	Method					
Ammonia Nitrogen as N	mg/L	aorgkjn-ll	<0.01	0.59	0.04		
Kjeldahl Nitrogen as N	mg/L	aorgkjn-ll	1.9	1.2	0.17		
Total Organic Carbon	mg/L	toc	36	13	5.5	110	350
Ammonia Nitrogen as N	mg/L	aorgkjn-hl				17	250
Kjeldahl Nitrogen as N	mg/L	aorgkjn-hl				28	290



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Continuation of Results:


Sample Description	QC02 +H2SO4	QC03 +H2SO4	MB 5 26/7/07 +HNO3 Filtered	MB 7 26/7/07 +HNO3 Filtered	MB 8 26/7/07 +HNO3 Filtered
Date Received	26/07/2007	26/07/2007	26/07/2007	26/07/2007	26/07/2007
EML Lab No.	17475	17476	17477	17478	17479

Analyte	Unit	Method				
Ammonia Nitrogen as N	mg/L	aorgkjin-ll	<0.01	<0.01		
Total Organic Carbon	mg/L	toc	0.8	0.8		
Total Iron as Fe	mg/L	metals			0.10	0.41
Total Manganese as Mn	mg/L	metals			0.18	0.45

Sample Description	LS1A 26/7/07 +HNO3 Filtered	LS1B 26/7/07 +HNO3 Filtered	QC02 26/7/07 +HNO3 Filtered	QC03 26/7/07 +HNO3 Filtered
Date Received	26/07/2007	26/07/2007	26/07/2007	26/07/2007
EML Lab No.	17480	17481	17482	17483

Analyte	Unit	Method				
Total Iron as Fe	mg/L	metals	6.3	9.7	<0.02	<0.02
Total Manganese as Mn	mg/L	metals	2.6	1.3	<0.01	<0.01

Yours faithfully
EML (CHEM) PTY LTD


K M Charlson BSc

Important Notes

1. This is a final report and it supersedes any previous interim reports pertaining to this work that you may have received
2. The results in this report pertain to samples as submitted to the laboratory



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CERTIFICATE OF ANALYSIS

URS Australia
Level 6, 1 Southbank Blvd
Southbank
VIC 3006
Site: BROOKLYN LANDFILL 43270821

Report Number: 211920 Page 1 of 6
Order Number:
Date Received: Jul 26, 2007
Date Sampled: Jul 26, 2007
Date Reported: Aug 1, 2007
Contact: URS MELBOURNE

Methods

- USEPA 8260B - MGT 350A Volatile Organics by GCMS
- USEPA 8260B - MGT 350A Monocyclic Aromatic Hydrocarbons
- APHA 5530B & D Phenols
- APHA 5560C - Volatile Fatty Acids

Comments

Notes

1. The results in this report supersede any previously corresponded results.
2. All Soil Results are reported on a dry basis.
3. Samples are analysed on an as received basis.

ABBREVIATIONS

mg/kg : milligrams per kilograms, mg/L : milligrams per litre, ppm : parts per million,
LOR : Limit of Reporting
RPD : Relative Percent Difference
CRM : Certified Reference Material
LCS : Laboratory Control Sample

Authorised

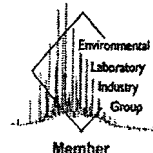
Michael Wright
NATA Signatory
Laboratory Manager



NATA Accredited
Laboratory Number 1261

The tests, calibrations or measurements covered by this document have been performed in accordance with NATA requirements which include the requirements of ISO/IEC 17025 and are traceable to national standards of measurement. This document shall not be reproduced, except in full.

Report Number: 211920



Member



Environmental Consulting Pty. Ltd.

3 Kingston Town Close, Oakleigh, Victoria 3166, Australia
 Postal address: P. O. Box 276, Oakleigh, Victoria 3166, Australia
 Telephone: (03) 9564 7055
 Fax: (03) 9564 7190
 Email: mgmt@mgtenv.com.au

Client Sample ID		MBS	MEZ	MSA	USUB
Lab Number	Matrix	07-JL09509	07-JL09510	07-JL09511	07-JL09512
Sample Date	Units	Water	Water	Water	Water
Analysis Type	Units	Jul 26, 2007	Jul 26, 2007	Jul 26, 2007	Jul 26, 2007
Monocyclic Aromatic Hydrocarbons					
Benzene	mg/L	< 0.001	< 0.001	0.003	0.003
Toluene	mg/L	0.004	0.003	< 0.001	0.004
Ethylbenzene	mg/L	< 0.001	< 0.001	< 0.001	0.004
Xylenes(ortho,meta and para)	mg/L	< 0.001	< 0.001	< 0.001	0.004
Fluorobenzene (suir.)	%	91	96	83	95
Volatile Organics					
1,1-Dichloroethane	mg/L	< 0.001	0.004	< 0.001	< 0.001
1,1-Dichloroethene	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1,1,1-Trichloroethane	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1,1,1,2-Tetrachloroethane	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1,1,2-Trichloroethane	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1,1,2,2-Tetrachloroethane	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1,2-Dibromoethane	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1,2-Dichlorobenzene	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1,2-Dichloroethane	mg/L	0.001	< 0.001	< 0.001	< 0.001
1,2-Dichloropropane	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1,2,3-Trichloropropane	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1,2,4-Trimethylbenzene	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1,3-Dichlorobenzene	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1,3-Dichloropropane	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1,3,5-Trimethylbenzene	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1,4-Dichlorobenzene	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
2-Butanone (MEK)	mg/L	< 0.001	< 0.001	0.005	0.002
2-Propanone (Acetone)	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
4-Chlorotoluene	mg/L	< 0.001	< 0.005	< 0.005	< 0.005
4-Methyl-2-pentanone (MIBK)	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Allyl chloride	mg/L	< 0.001	< 0.001	< 0.001	0.004
Benzene	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Bromobenzene	mg/L	< 0.001	< 0.001	0.003	0.003
Bromochloromethane	mg/L	< 0.001	< 0.001	< 0.001	< 0.001



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Client Sample ID	MBS	VIB7	STA	ISS18
Lab Number	07-JL09509	07-JL09510	07-JL09511	07-JL09512
Matrix	Water	Water	Water	Water
Sample Date	Jul 26, 2007	Jul 26, 2007	Jul 26, 2007	Jul 26, 2007
Analysis Type				
4-Bromofluorobenzene (suir.)	95	85	90	100
Phenolics (Total)	0.005	0.002	0.009	0.065
Volatile Fatty Acids (mg as Acetic Acid/L)	52	23	88	92



3 Kingston Town Close, Oakleigh, Victoria 3166, Australia
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JRS Australia
 Level 6, 1 Southbank Blvd
 Southbank
 VIC 3006

Lab Number	BATCH	MBE	Batch
QA Description		07-JL09509	
Matrix	Water	Spike %	
Sample Date	Jul 26, 2007	Water	Jul 26, 2007
		% Recovery	mg/L
Bromomethane	<1	-	< 0.001
Carbon disulfide	<1	-	< 0.001
Carbon Tetrachloride	<1	86	< 0.001
Chlorobenzene	<1	-	< 0.001
Chloroethane	<1	-	< 0.001
Chloroform	<1	-	< 0.001
Chloromethane	<1	-	< 0.001
cis-1,2-Dichloroethene	<1	-	< 0.001
cis-1,3-Dichloropropene	<1	-	< 0.001
Dibromochloromethane	<1	-	< 0.001
Dibromomethane	<1	-	< 0.001
Dichlorodifluoromethane	<1	-	< 0.001
Iodomethane	<1	-	< 0.001
Isopropyl benzene (Cumene)	<1	-	< 0.001
Methylene chloride	<1	-	< 0.001
Styrene	<1	-	< 0.001
Tetrachloroethene	<1	-	< 0.001
trans-1,2-Dichloroethene	<1	-	< 0.001
trans-1,3-Dichloropropene	<1	-	< 0.001
Trichloroethene	<1	91	< 0.001
Trichlorofluoromethane	<1	-	< 0.001
Vinyl acetate	<1	-	< 0.001
Vinyl chloride	<1	-	< 0.001
Toluene	<1	-	< 0.001
Ethylbenzene	<1	87	< 0.001
Xylenes(ortho,meta and para)	<1	120	< 0.001
Fluorobenzene (surr.)	<1	106	< 0.001
4-Bromofluorobenzene (surr.)	-	88	97
	-	88	96


COMMENTS:

URS - CHAIN OF CUSTODY

All results to be provided in MRED format
 email address: melbourne@urscorp.com
 All results to be provided in accordance
 with attached Addendum C

LABORATORY: MGT
 ADDRESS: 3 Kingston Town Close
 Oakleigh VIC 3166
 PHONE NO: 03 9564 7055
 FAX NO: 03 9564 7180

URS Australia
 1 Southbank Blvd
 Southbank, VIC
 3006
 PHONE NO: 03 8699 7500
 FAX NO: 03 8699 7550

PURCHASE ORDER NUMBER: MEL-2168B76
 SIGNED: 


PROJECT MANAGER: Roger Cranswick
 SAMPLES: RC and TH

PROJECT NAME: Brooklyn Landfill
 PROJECT NO: 43270821

COMMENTS:

SAMPLE ID	DATE	MATRIX	SITE	LOCATION	CONTAINER TYPE & PRESERVATIVE	TOTAL NUMBER OF CONTAINERS	ANALYSIS REQUIRED					HOLD
							BTEX	Volatile Fatty Acids	VOC Scan, phenolics			
MB 5	26/07/2007	Water	Bunting Rd	MB 5	P. A, 2VH	4	1	1	1			
MB 7	26/07/2007	Water	Bunting Rd	MB 7	P. A, 2VH	4	1	1	1			
LS1A	26/07/2007	Leachate	Bunting Rd	LS1A	P. A, 2VH	4	1	1	1			
LS1B	26/07/2007	Leachate	Bunting Rd	LS1B	P. A, 2VH	4	1	1	1			
						TOTAL NO:	16	0	0	4	4	0

RELINQUISHED BY: Tracey Hassell
 DATE: 26/07/2007 TIME: 1500

RECEIVED BY:  TIME: 2:06/7

DATE:

CONTAINER TYPE AND PRESERVATIVE CODES
 J = Jar; A = Amber Bottle; VH = HCl Preserved Vial; P = Plastic Bottle; N = Nitric Acid Preserved; S = Sulphuric Acid Preserved; C = Sodium Hydroxide Preserved; B = Sterile Bottle; Z = Zinc Acetate Preserved; E = EDTA Preserved; O = Other Preserved

PLEASE SIGN AND FAX TO URS UPON RECEIPT

211920