



November 4, 2004

Mr. Nnamdi Madakor
Department of Ecology
P.O. Box 47600
Olympia WA 98504

Letter Report
Bi-annual Performance Monitoring
Former Magic Cleaners
TCP ID #0081
URS Job No. 33756663

Dear Mr. Madakor

INTRODUCTION AND BACKGROUND

Provided herein are the results of the biannual groundwater monitoring conducted at the Former Magic Cleaners site located in Lake Forest Park, Washington. This letter report includes a brief description of the site background and results of the groundwater monitoring conducted during seasonally low groundwater levels. The prior performance monitoring results were provided in URS Corporation (URS) letter report dated March 17, 2004.

Two Density Driven Convection (DDC) well systems were installed at the subject property (Figure 1) in the summer of 2001 and operations were initiated in October 2001 (Figure 1). URS has operated and maintained the system since its construction. Following the system installation, bi-annual monitoring of wells MW-3 and MW-6 was implemented as recommended in the URS Voluntary Cleanup and Performance Monitoring report dated March 2003. Per Ecology's letter dated January 29, 2004, sampling of monitoring wells MW-2, MW-4 and MW-5 was incorporated into the performance monitoring program. The bi-annual sampling events are conducted in the winter and summer to correspond to the seasonal high and low water table conditions, respectively.

GROUNDWATER MONITORING RESULTS

Groundwater sampling was conducted on August 11, 2004 using low flow sampling methods in accordance with EPA guidance. Groundwater water level measurements and water quality parameters were recorded on sampling logs which are provided in Appendix A. A groundwater sample could not be obtained from MW-2 due to the apparent infiltration of tree roots from an adjacent tree. Subsequently, URS retained Cascade Drilling on September 20th to remove the blockage and redevelop the well. Following the successful redevelopment of the well, a groundwater sample was collected from MW-2. Groundwater samples were collected directly into laboratory supplied glassware and were immediately placed in a cooler containing blue-ice. The samples were submitted to North Creek Analytical of Bothell, Washington, under chain-of-custody protocol. The samples were analyzed for volatile organic compounds (VOC) using EPA Method 8260B. The laboratory analytical report is provided in Appendix B.

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Washington Dept. of Ecology
November 3, 2004
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Groundwater levels are summarized in Table 1 and the analytical results are summarized in Table 2.

CONCLUSIONS

Based on the results of the performance monitoring conducted in the summer of 2004, URS concludes the following:

- The levels of PCE and its degradation products are generally stable or declining.
- URS will maintain the operation of the DDC systems and will schedule the next round of performance monitoring for January 2005.

URS trusts this letter report meets your requirements. Should you have any questions or require further information regarding this report please contact me at (206) 438-2284.

Respectfully submitted,

URS CORPORATION



David Raubvogel
Senior Geologist

Attachments: Appendices A and B
Tables 1 and 2
Figure 1

Copy: Rebecca Coles
Andrew Zabel

Table 1
Summary of Groundwater Level Measurements
Former Magic Cleaners

Well ID #	Screen Interval (feet bgs)	Reference Elevation (feet above msl)	Depth to Groundwater (feet bgs)										Groundwater Elevation (feet above msl)													
			11/30/00	10/13/01	10/26/01	01/23/02	05/02/02	09/20/02	01/03/03	06/11/03	09/12/03	02/13/04	8/11/2004*	11/30/00	10/13/01	10/26/01	01/23/02	05/02/02	09/20/02	01/03/03	06/11/03	09/12/03	02/13/04	8/11/2004*		
MW-2	3-15	43.28	5.03	NA	NA	NA	NA	NA	6.08	NA	NA	NA	NA	NA	8.20	38.25	NA	NA	NA	NA	NA	37.20	NA	NA	NA	35.08
MW-3	3-15	40.67	9.05	NA	NA	NA	6.92	3	7.28	8.91	9.23	8.85	8.23	7.34	31.62	31.76	37.67	33.39	31.44	31.82	32.44	33.33	33.03	32.03	32.52	33.02
MW-4	2.5-15	36.55	3.29	NA	NA	NA	3.28	3.27	3.99	4.61	4.61	4.52	4.03	3.53	33.26	33.27	33.28	32.78	31.94	32.03	32.56	31.94	32.03	32.03	32.52	33.02
MW-6	4.5-14.5	40.04	3.75	NA	NA	NA	3.43	3.36	4.73	4.99	4.99	5.1	4.35	4.04	36.29	36.61	36.68	35.74	35.05	34.94	35.31	35.05	34.94	35.69	36.00	
DDC-2S	2-7	44.14	NA	3.85	4.38	4.10	4.10	4.30	5.92	5.27	5.27	4.99	5.47	4.62	NA	40.29	39.76	39.84	NA	38.87	39.15	38.22	38.87	39.15	38.67	39.52
DDC-2D	18-23	44.19	NA	6.68	6.42	6.42	6.43	6.50	8.18	7.65	7.65	6.48	7.21	6.05	NA	37.51	37.77	37.69	NA	36.54	37.71	36.01	36.54	37.71	36.98	38.14
DDC-6S	2-7	40.02	NA	4.85	5.16	5.16	NA	7.04	7.16	7.45	7.45	7.62		7.12	NA	35.17	34.86	32.98	32.72	32.57	32.40	32.86	32.57	32.40	40.02	32.90
DDC-6D	17.5-22.5	40	NA	8.25	7.88	7.88	NA	7.55	8.12	8.15	8.15	8.31		7.58	NA	31.75	32.12	32.45	31.88	31.85	31.69	32.18	31.85	31.69	40.00	32.42

Notes:

- bgs = below ground surface
- msl = mean sea level
- NA = Not Available
- DDC = Density Driven Convection
- S = Shallow
- D = Deep
- * MW-2 Measured 9/20/04

Table 2
Summary of Compliance Monitoring Groundwater Analytical Results
Former Magic Cleaners

Monitoring Well	Sample Date	Volatile Organic Compounds ¹ (µg/L)				Vinyl Chloride
		PCE	TCE	cis-1,2-DCE		
MW-2	01/30/97	ND	ND	ND	ND	ND
	05/30/97	ND	ND	ND	ND	ND
	09/12/97	ND	ND	ND	ND	ND
	12/10/97	ND	ND	ND	ND	ND
	01/28/99 ²	ND	ND	ND	ND	ND
	03/8/99 ³	ND	ND	ND	ND	ND
	06/10/99	ND	ND	ND	ND	ND
	04/21/00	ND	ND	ND	ND	ND
	11/30/00	ND	ND	ND	ND	ND
	01/03/03	ND	ND	ND	ND	ND
MW-3	09/20/04	1.63	ND	ND	ND	ND
	01/30/97	27.90	2.42	3.54	ND	ND
	05/30/97	37.30	3.41	2.68	ND	ND
	09/12/97	18.70	3.72	3.28	ND	ND
	12/10/97	33.60	2.97	2.85	ND	ND
	09/22/98	11.00	3.20	2.80	ND	ND
	01/28/99 ²	32.00	3.17	2.87	ND	ND
	3/8/99 ³	24.10	2.65	2.53	0.437	ND
	06/10/99	23.7	3.72	2.68	ND	ND
	04/24/00	26.6	2.35	1.84	0.169	ND
11/30/00	18.7	2.49	2.36	0.228	ND	
MW-4	01/23/02	23.5	4.16	2.49	ND	ND
	05/03/02	24.5	4.32	2.22	ND	ND
	09/20/02	4.45	3.90	4.58	ND	ND
	01/03/03	22.3	3.60	1.72	ND	ND
	02/13/04	26.5	3.14	1.65	ND	ND
	08/11/04	20.1	4.2	1.83	0.126	ND
	04/21/00	ND	ND	ND	ND	ND
	11/30/00	ND	ND	ND	ND	ND
	01/23/02	ND	ND	ND	ND	ND
	05/03/02	ND	ND	ND	ND	ND
MW-5	09/20/02	ND	ND	ND	ND	ND
	01/03/03	ND	ND	ND	ND	ND
	06/11/03	ND	ND	ND	ND	ND
	12/31/03	ND	ND	ND	ND	ND
	02/13/04	ND	ND	ND	ND	ND
	08/11/04	ND	ND	ND	ND	ND
	02/13/04	ND	ND	ND	ND	ND
	08/11/04	ND	ND	ND	ND	ND
	01/28/99 ²	49.50	4.48	3.67	ND	ND
	3/8/99 ³	52.70	3.83	3.30	ND	ND
MW-6	06/10/99	43.70	5.53	4.65	0.212	ND
	04/21/00	47.30	6.11	4.94	ND	ND
	11/30/00	19.20	5.80	7.99	0.998	ND
	01/23/02	17.20	3.61	3.74	0.597	ND
	05/03/02	21.00	4.84	4.77	ND	ND
	09/20/02	23.9	4.47	4.99	0.576	ND
	01/03/03	11.8	2.82	3.57	ND	ND
	06/11/03	12.5	3.17	3.21	0.48	ND
	12/31/03	9.34	3.41	4.07	0.80	ND
	08/11/04	11.20	3.24	3.27	0.76	ND
MTCA Method A or B Groundwater Cleanup Level		5 (A)	5 (A)	80 (B)	0.2 (A)	

Notes:

MTCA - Model Toxics Control Act

Method A and B values are reported with the same concentration units as the sample results.

Numbers in bold font indicate that the reporting limit exceeds the MTCA cleanup level.

NA - Not available (not sampled)

ND - Not detected above the reporting limit.

¹ Analyses performed by using EPA Method 8010B (1997, 1998) and EPA Method 8260B. All other VOCs not listed were not detected.

² Sample collected following periodic groundwater extraction from monitoring wells MW-3 and MW-6 from 12-30-98 to 01-12-99.

³ Sample collected following periodic groundwater extraction from monitoring wells MW-3 & MW-6 from 02-23-99 to 03-04-99.

DDC remedial system startup 10-14-01

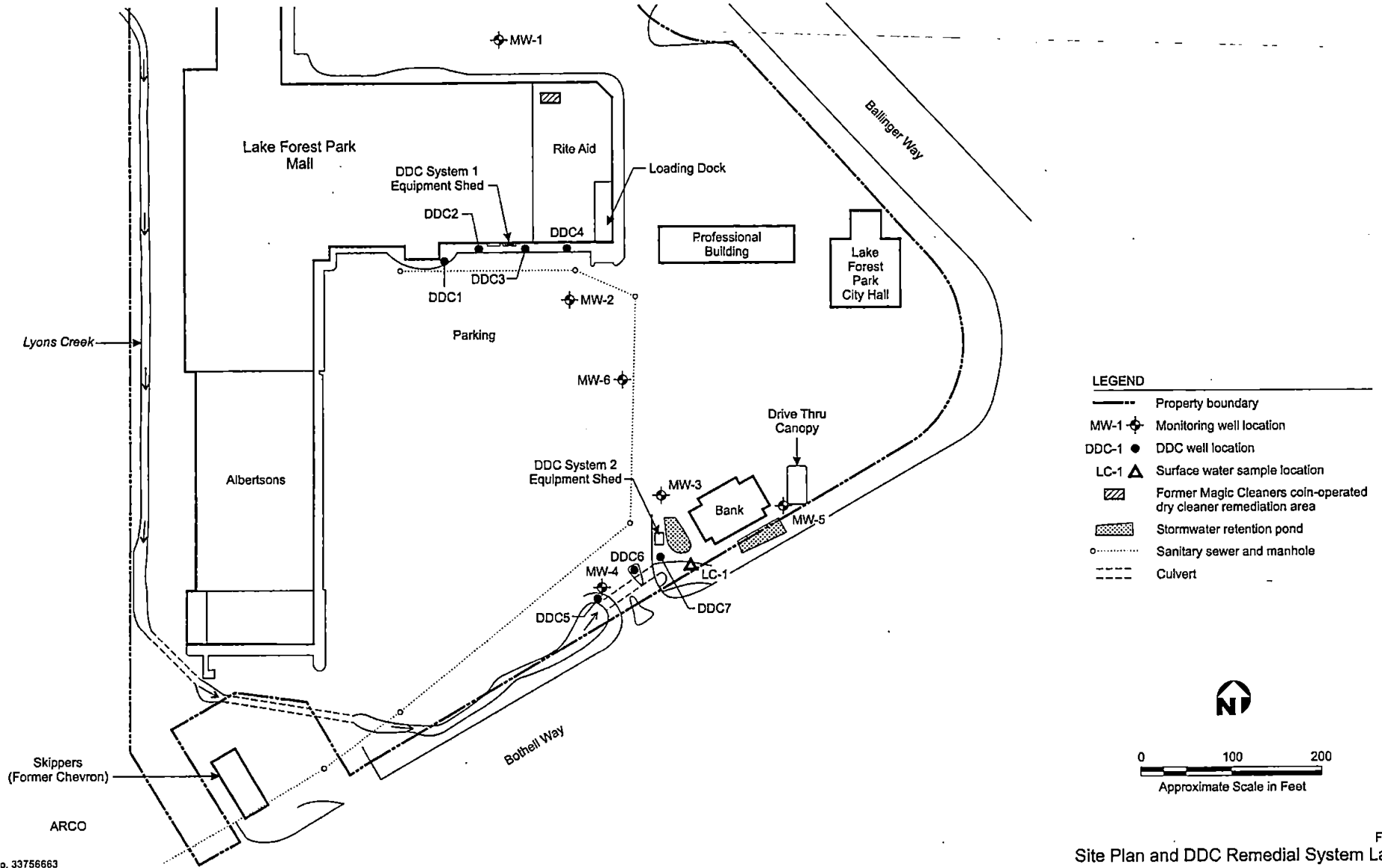
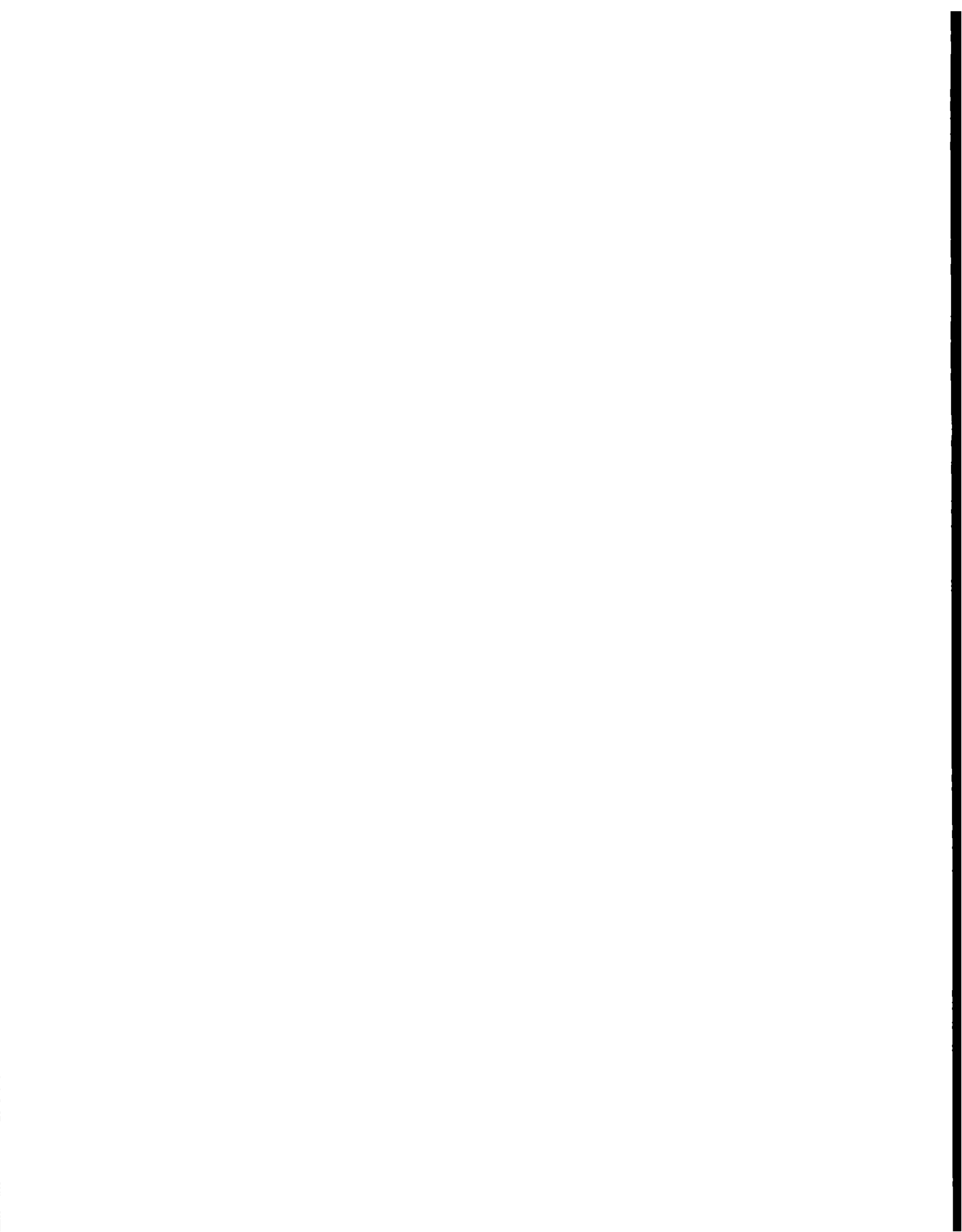


Figure 2
Site Plan and DDC Remedial System Layout





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AUG 26 2004
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SEATTLE

24 August 2004

David Raubvogel
URS Corporation
1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616
RE: Magic Cleaners

Enclosed are the results of analyses for samples received by the laboratory on 08/11/04 13:40. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jeff Gerdes
Project Manager



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URS Corporation
 1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project: Magic Cleaners
 Project Number: 33756663
 Project Manager: David Raubvogel

Reported:
 08/24/04 14:22

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-5	B4H0295-01	Water	08/11/04 10:55	08/11/04 13:40
MW-4	B4H0295-02	Water	08/11/04 11:50	08/11/04 13:40
MW-3	B4H0295-03	Water	08/11/04 12:40	08/11/04 13:40
MW-6	B4H0295-04	Water	08/11/04 13:20	08/11/04 13:40

North Creek Analytical - Bothell

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Jeff Gerdes, Project Manager

North Creek Analytical, Inc.
 Environmental Laboratory Network



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 Seattle, WA/USA 98101-1616

Project: Magic Cleaners
 Project Number: 33756663
 Project Manager: David Raubvogel

Reported:
 08/24/04 14:22

Volatile Organic Compounds by EPA Method 8260B
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-5 (B4H0295-01) Water Sampled: 08/11/04 10:55 Received: 08/11/04 13:40									
Acetone	ND	20.0	ug/l	1	4H16048	08/16/04	08/16/04	EPA 8260B	
Benzene	ND	1.00	"	"	"	"	"	"	
Bromobenzene	ND	1.00	"	"	"	"	"	"	
Bromochloromethane	ND	1.00	"	"	"	"	"	"	
Bromodichloromethane	ND	1.00	"	"	"	"	"	"	
Bromoform	ND	1.00	"	"	"	"	"	"	
Bromomethane	ND	2.00	"	"	"	"	"	"	
2-Butanone	ND	10.0	"	"	"	"	"	"	
n-Butylbenzene	ND	1.00	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.00	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.00	"	"	"	"	"	"	
Carbon disulfide	ND	1.00	"	"	"	"	"	"	
Carbon tetrachloride	ND	1.00	"	"	"	"	"	"	
Chlorobenzene	ND	1.00	"	"	"	"	"	"	
Chloroethane	ND	1.00	"	"	"	"	"	"	
Chloroform	ND	1.00	"	"	"	"	"	"	
Chloromethane	ND	5.00	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.00	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.00	"	"	"	"	"	"	
Dibromochloromethane	ND	1.00	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	5.00	"	"	"	"	"	"	
1,2-Dibromoethane	ND	1.00	"	"	"	"	"	"	
Dibromomethane	ND	1.00	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.00	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.00	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.00	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	1.00	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.00	"	"	"	"	"	"	
1,2-Dichloroethane	ND	1.00	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.00	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.00	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.00	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.00	"	"	"	"	"	"	
1,3-Dichloropropane	ND	1.00	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.00	"	"	"	"	"	"	

North Creek Analytical - Bothell

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Jeff Gerdes

Jeff Gerdes, Project Manager

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URS Corporation
 1501 4th Ave, Suite 1400
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Project: Magic Cleaners
 Project Number: 33756663
 Project Manager: David Raubvogel

Reported:
 08/24/04 14:22

Volatile Organic Compounds by EPA Method 8260B
North Creek Analytical - Bothell

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
MW-5 (B4H0295-01) Water Sampled: 08/11/04 10:55 Received: 08/11/04 13:40										
1,1-Dichloropropene	ND	1.00		ug/l	1	4H16048	08/16/04	08/16/04	"	
cis-1,3-Dichloropropene	ND	1.00		"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	1.00		"	"	"	"	"	"	
Ethylbenzene	ND	1.00		"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.00		"	"	"	"	"	"	
Methyl tert-butyl ether	ND	2.00		"	"	"	"	"	"	
2-Hexanone	ND	10.0		"	"	"	"	"	"	
Isopropylbenzene	ND	1.00		"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.00		"	"	"	"	"	"	
4-Methyl-2-pentanone	ND	10.0		"	"	"	"	"	"	
Methylene chloride	ND	5.00		"	"	"	"	"	"	
Naphthalene	ND	1.00		"	"	"	"	"	"	
n-Propylbenzene	ND	1.00		"	"	"	"	"	"	
Styrene	ND	1.00		"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.00		"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.00		"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.00		"	"	"	"	"	"	
1,1,1,2,2-Tetrachloroethane	ND	1.00		"	"	"	"	"	"	
Tetrachloroethene	ND	1.00		"	"	"	"	"	"	
Toluene	ND	1.00		"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.00		"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.00		"	"	"	"	"	"	
Trichloroethene	ND	1.00		"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.00		"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.00		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.00		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.00		"	"	"	"	"	"	
Vinyl chloride	ND	1.00		"	"	"	"	"	"	
o-Xylene	ND	1.00		"	"	"	"	"	"	
m,p-Xylene	ND	2.00		"	"	"	"	"	"	
Surrogate: 1,2-DCA-d4	98.5 %	70-130				"	"	"	"	
Surrogate: Toluene-d8	94.5 %	70-130				"	"	"	"	
Surrogate: 4-BFB	99.0 %	70-130				"	"	"	"	

North Creek Analytical - Bothell

Jeff Gerdes

Jeff Gerdes, Project Manager

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URS Corporation Project: Magic Cleaners
 1501 4th Ave, Suite 1400 Project Number: 33756663
 Seattle, WA/USA 98101-1616 Project Manager: David Raubvogel Reported: 08/24/04 14:22

Volatile Organic Compounds by EPA Method 8260B
North Creek Analytical - Bothell

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
MW-4 (B4H0295-02) Water Sampled: 08/11/04 11:50 Received: 08/11/04 13:40										
Acetone	ND	20.0		ug/l	1	4H16048	08/16/04	08/16/04	EPA 8260B	
Benzene	ND	1.00		"	"	"	"	"	"	
Bromobenzene	ND	1.00		"	"	"	"	"	"	
Bromochloromethane	ND	1.00		"	"	"	"	"	"	
Bromodichloromethane	ND	1.00		"	"	"	"	"	"	
Bromoform	ND	1.00		"	"	"	"	"	"	
Bromomethane	ND	2.00		"	"	"	"	"	"	
2-Butanone	ND	10.0		"	"	"	"	"	"	
n-Butylbenzene	ND	1.00		"	"	"	"	"	"	
sec-Butylbenzene	ND	1.00		"	"	"	"	"	"	
tert-Butylbenzene	ND	1.00		"	"	"	"	"	"	
Carbon disulfide	ND	1.00		"	"	"	"	"	"	
Carbon tetrachloride	ND	1.00		"	"	"	"	"	"	
Chlorobenzene	ND	1.00		"	"	"	"	"	"	
Chloroethane	ND	1.00		"	"	"	"	"	"	
Chloroform	ND	1.00		"	"	"	"	"	"	
Chloromethane	ND	5.00		"	"	"	"	"	"	
2-Chlorotoluene	ND	1.00		"	"	"	"	"	"	
4-Chlorotoluene	ND	1.00		"	"	"	"	"	"	
Dibromochloromethane	ND	1.00		"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	5.00		"	"	"	"	"	"	
1,2-Dibromoethane	ND	1.00		"	"	"	"	"	"	
Dibromomethane	ND	1.00		"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.00		"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.00		"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.00		"	"	"	"	"	"	
Dichlorodifluoromethane	ND	1.00		"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.00		"	"	"	"	"	"	
1,2-Dichloroethane	ND	1.00		"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.00		"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.00		"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.00		"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.00		"	"	"	"	"	"	
1,3-Dichloropropane	ND	1.00		"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.00		"	"	"	"	"	"	

North Creek Analytical - Bothell

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project: Magic Cleaners Project Number: 33756663 Project Manager: David Raubvogel	Reported: 08/24/04 14:22
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Volatile Organic Compounds by EPA Method 8260B
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-4 (B4H0295-02) Water Sampled: 08/11/04 11:50 Received: 08/11/04 13:40									
1,1-Dichloropropene	ND	1.00	ug/l	1	4H16048	08/16/04	08/16/04	"	
cis-1,3-Dichloropropene	ND	1.00	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	1.00	"	"	"	"	"	"	
Ethylbenzene	ND	1.00	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.00	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	2.00	"	"	"	"	"	"	
2-Hexanone	ND	10.0	"	"	"	"	"	"	
Isopropylbenzene	ND	1.00	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.00	"	"	"	"	"	"	
4-Methyl-2-pentanone	ND	10.0	"	"	"	"	"	"	
Methylene chloride	ND	5.00	"	"	"	"	"	"	
Naphthalene	ND	1.00	"	"	"	"	"	"	
n-Propylbenzene	ND	1.00	"	"	"	"	"	"	
Styrene	ND	1.00	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.00	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.00	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.00	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.00	"	"	"	"	"	"	
Tetrachloroethene	ND	1.00	"	"	"	"	"	"	
Toluene	ND	1.00	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.00	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.00	"	"	"	"	"	"	
Trichloroethene	ND	1.00	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.00	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.00	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.00	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.00	"	"	"	"	"	"	
Vinyl chloride	ND	1.00	"	"	"	"	"	"	
o-Xylene	ND	1.00	"	"	"	"	"	"	
m,p-Xylene	ND	2.00	"	"	"	"	"	"	
Surrogate: 1,2-DCA-d4	106 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	97.0 %	70-130			"	"	"	"	
Surrogate: 4-BFB	106 %	70-130			"	"	"	"	

North Creek Analytical - Bothell

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project: Magic Cleaners Project Number: 33756663 Project Manager: David Raubvogel	Reported: 08/24/04 14:22
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**Volatile Organic Compounds by EPA Method 8260B
 North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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MW-3 (B4H0295-03) Water Sampled: 08/11/04 12:40 Received: 08/11/04 13:40

Acetone	ND	20.0	ug/l	1	4H16048	08/16/04	08/16/04	EPA 8260B	
Benzene	ND	1.00	"	"	"	"	"	"	
Bromobenzene	ND	1.00	"	"	"	"	"	"	
Bromochloromethane	ND	1.00	"	"	"	"	"	"	
Bromodichloromethane	ND	1.00	"	"	"	"	"	"	
Bromoform	ND	1.00	"	"	"	"	"	"	
Bromomethane	ND	2.00	"	"	"	"	"	"	
2-Butanone	ND	10.0	"	"	"	"	"	"	
n-Butylbenzene	ND	1.00	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.00	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.00	"	"	"	"	"	"	
Carbon disulfide	ND	1.00	"	"	"	"	"	"	
Carbon tetrachloride	ND	1.00	"	"	"	"	"	"	
Chlorobenzene	ND	1.00	"	"	"	"	"	"	
Chloroethane	ND	1.00	"	"	"	"	"	"	
Chloroform	ND	1.00	"	"	"	"	"	"	
Chloromethane	ND	5.00	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.00	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.00	"	"	"	"	"	"	
Dibromochloromethane	ND	1.00	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	5.00	"	"	"	"	"	"	
1,2-Dibromoethane	ND	1.00	"	"	"	"	"	"	
Dibromomethane	ND	1.00	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.00	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.00	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.00	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	1.00	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.00	"	"	"	"	"	"	
1,2-Dichloroethane	ND	1.00	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.00	"	"	"	"	"	"	
cis-1,2-Dichloroethene	1.83	1.00	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.00	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.00	"	"	"	"	"	"	
1,3-Dichloropropane	ND	1.00	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.00	"	"	"	"	"	"	

North Creek Analytical - Bothell

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Jeff Gerdes, Project Manager

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URS Corporation
 1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project: Magic Cleaners
 Project Number: 33756663
 Project Manager: David Raubvogel

Reported:
 08/24/04 14:22

Volatile Organic Compounds by EPA Method 8260B
North Creek Analytical - Bothell

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
MW-3 (B4H0295-03) Water Sampled: 08/11/04 12:40 Received: 08/11/04 13:40										
1,1-Dichloropropene	ND	1.00		ug/l	1	4H16048	08/16/04	08/16/04	"	
cis-1,3-Dichloropropene	ND	1.00		"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	1.00		"	"	"	"	"	"	
Ethylbenzene	ND	1.00		"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.00		"	"	"	"	"	"	
Methyl tert-butyl ether	ND	2.00		"	"	"	"	"	"	
2-Hexanone	ND	10.0		"	"	"	"	"	"	
Isopropylbenzene	ND	1.00		"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.00		"	"	"	"	"	"	
4-Methyl-2-pentanone	ND	10.0		"	"	"	"	"	"	
Methylene chloride	ND	5.00		"	"	"	"	"	"	
Naphthalene	ND	1.00		"	"	"	"	"	"	
n-Propylbenzene	ND	1.00		"	"	"	"	"	"	
Styrene	ND	1.00		"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.00		"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.00		"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.00		"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.00		"	"	"	"	"	"	
Tetrachloroethene	20.1	1.00		"	"	"	"	"	"	
Toluene	ND	1.00		"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.00		"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.00		"	"	"	"	"	"	
Trichloroethene	4.20	1.00		"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.00		"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.00		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.00		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.00		"	"	"	"	"	"	
Vinyl chloride	ND	1.00		"	"	"	"	"	"	
o-Xylene	ND	1.00		"	"	"	"	"	"	
m,p-Xylene	ND	2.00		"	"	"	"	"	"	
Surrogate: 1,2-DCA-d4	110 %	70-130				"	"	"	"	
Surrogate: Toluene-d8	97.0 %	70-130				"	"	"	"	
Surrogate: 4-BFB	112 %	70-130				"	"	"	"	

North Creek Analytical - Bothell

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URS Corporation
 1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project: Magic Cleaners
 Project Number: 33756663
 Project Manager: David Raubvogel

Reported:
 08/24/04 14:22

Volatile Organic Compounds by EPA Method 8260B
North Creek Analytical - Bothell

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
MW-6 (B4H0295-04) Water Sampled: 08/11/04 13:20 Received: 08/11/04 13:40										
Acetone	ND	20.0		ug/l	1	4H16048	08/16/04	08/16/04	EPA 8260B	
Benzene	ND	1.00		"	"	"	"	"	"	
Bromobenzene	ND	1.00		"	"	"	"	"	"	
Bromochloromethane	ND	1.00		"	"	"	"	"	"	
Bromodichloromethane	ND	1.00		"	"	"	"	"	"	
Bromoform	ND	1.00		"	"	"	"	"	"	
Bromomethane	ND	2.00		"	"	"	"	"	"	
2-Butanone	ND	10.0		"	"	"	"	"	"	
n-Butylbenzene	ND	1.00		"	"	"	"	"	"	
sec-Butylbenzene	ND	1.00		"	"	"	"	"	"	
tert-Butylbenzene	ND	1.00		"	"	"	"	"	"	
Carbon disulfide	ND	1.00		"	"	"	"	"	"	
Carbon tetrachloride	ND	1.00		"	"	"	"	"	"	
Chlorobenzene	ND	1.00		"	"	"	"	"	"	
Chloroethane	ND	1.00		"	"	"	"	"	"	
Chloroform	ND	1.00		"	"	"	"	"	"	
Chloromethane	ND	5.00		"	"	"	"	"	"	
2-Chlorotoluene	ND	1.00		"	"	"	"	"	"	
4-Chlorotoluene	ND	1.00		"	"	"	"	"	"	
Dibromochloromethane	ND	1.00		"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	5.00		"	"	"	"	"	"	
1,2-Dibromoethane	ND	1.00		"	"	"	"	"	"	
Dibromomethane	ND	1.00		"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.00		"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.00		"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.00		"	"	"	"	"	"	
Dichlorodifluoromethane	ND	1.00		"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.00		"	"	"	"	"	"	
1,2-Dichloroethane	ND	1.00		"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.00		"	"	"	"	"	"	
cis-1,2-Dichloroethene	3.27	1.00		"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.00		"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.00		"	"	"	"	"	"	
1,3-Dichloropropane	ND	1.00		"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.00		"	"	"	"	"	"	

North Creek Analytical - Bothell

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project: Magic Cleaners Project Number: 33756663 Project Manager: David Raubvogel	Reported: 08/24/04 14:22
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Volatile Organic Compounds by EPA Method 8260B
North Creek Analytical - Bothell

Analyte	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Result	Limit							
MW-6 (B4H0295-04) Water Sampled: 08/11/04 13:20 Received: 08/11/04 13:40									
1,1-Dichloropropene	ND	1.00	ug/l	1	4H16048	08/16/04	08/16/04	"	
cis-1,3-Dichloropropene	ND	1.00	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	1.00	"	"	"	"	"	"	
Ethylbenzene	ND	1.00	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.00	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	2.00	"	"	"	"	"	"	
2-Hexanone	ND	10.0	"	"	"	"	"	"	
Isopropylbenzene	ND	1.00	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.00	"	"	"	"	"	"	
4-Methyl-2-pentanone	ND	10.0	"	"	"	"	"	"	
Methylene chloride	ND	5.00	"	"	"	"	"	"	
Naphthalene	ND	1.00	"	"	"	"	"	"	
n-Propylbenzene	ND	1.00	"	"	"	"	"	"	
Styrene	ND	1.00	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.00	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.00	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.00	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.00	"	"	"	"	"	"	
Tetrachloroethene	11.2	1.00	"	"	"	"	"	"	
Toluene	ND	1.00	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.00	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.00	"	"	"	"	"	"	
Trichloroethene	3.24	1.00	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.00	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.00	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.00	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.00	"	"	"	"	"	"	
Vinyl chloride	ND	1.00	"	"	"	"	"	"	
o-Xylene	ND	1.00	"	"	"	"	"	"	
m,p-Xylene	ND	2.00	"	"	"	"	"	"	
Surrogate: 1,2-DCA-d4	104 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	96.5 %	70-130			"	"	"	"	
Surrogate: 4-BFB	126 %	70-130			"	"	"	"	

North Creek Analytical - Bothell

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project: Magic Cleaners Project Number: 33756663 Project Manager: David Raubvogel	Reported: 08/24/04 14:22
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**Volatile Organic Compounds by GC/MS with Selected Ion Monitoring
 North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-5 (B4H0295-01) Water Sampled: 08/11/04 10:55 Received: 08/11/04 13:40									
Vinyl chloride	ND	0.100	ug/l	1	4H23026	08/20/04	08/20/04	EPA 8260B Mod	
Surrogate: 1,2-DCA-d4	75.5 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	107 %	70-130			"	"	"	"	
Surrogate: 4-BFB	102 %	70-130			"	"	"	"	
MW-4 (B4H0295-02) Water Sampled: 08/11/04 11:50 Received: 08/11/04 13:40									
Vinyl chloride	ND	0.100	ug/l	1	4H23026	08/20/04	08/20/04	EPA 8260B Mod	
Surrogate: 1,2-DCA-d4	76.0 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	107 %	70-130			"	"	"	"	
Surrogate: 4-BFB	102 %	70-130			"	"	"	"	
MW-3 (B4H0295-03) Water Sampled: 08/11/04 12:40 Received: 08/11/04 13:40									
Vinyl chloride	0.126	0.100	ug/l	1	4H23026	08/20/04	08/20/04	EPA 8260B Mod	
Surrogate: 1,2-DCA-d4	76.0 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	107 %	70-130			"	"	"	"	
Surrogate: 4-BFB	102 %	70-130			"	"	"	"	
MW-6 (B4H0295-04) Water Sampled: 08/11/04 13:20 Received: 08/11/04 13:40									
Vinyl chloride	0.757	0.100	ug/l	1	4H23026	08/20/04	08/20/04	EPA 8260B Mod	
Surrogate: 1,2-DCA-d4	76.5 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	108 %	70-130			"	"	"	"	
Surrogate: 4-BFB	103 %	70-130			"	"	"	"	

North Creek Analytical - Bothell

Jeff Gerdes, Project Manager

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North Creek Analytical, Inc.
 Environmental Laboratory Network



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URS Corporation
 1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project: Magic Cleaners
 Project Number: 33756663
 Project Manager: David Raubvogel

Reported:
 08/24/04 14:22

Volatile Organic Compounds by EPA Method 8260B - Quality Control
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4H16048: Prepared 08/16/04 Using EPA 5030B

Blank (4H16048-BLK1)

Acetone	ND	20.0	ug/l							
Benzene	ND	1.00	"							
Bromobenzene	ND	1.00	"							
Bromochloromethane	ND	1.00	"							
Bromodichloromethane	ND	1.00	"							
Bromoform	ND	1.00	"							
Bromomethane	ND	2.00	"							
2-Butanone	ND	10.0	"							
n-Butylbenzene	ND	1.00	"							
sec-Butylbenzene	ND	1.00	"							
tert-Butylbenzene	ND	1.00	"							
Carbon disulfide	ND	1.00	"							
Carbon tetrachloride	ND	1.00	"							
Chlorobenzene	ND	1.00	"							
Chloroethane	ND	1.00	"							
Chloroform	ND	1.00	"							
Chloromethane	ND	5.00	"							
2-Chlorotoluene	ND	1.00	"							
4-Chlorotoluene	ND	1.00	"							
Dibromochloromethane	ND	1.00	"							
1,2-Dibromo-3-chloropropane	ND	5.00	"							
1,2-Dibromoethane	ND	1.00	"							
Dibromomethane	ND	1.00	"							
1,2-Dichlorobenzene	ND	1.00	"							
1,3-Dichlorobenzene	ND	1.00	"							
1,4-Dichlorobenzene	ND	1.00	"							
Dichlorodifluoromethane	ND	1.00	"							
1,1-Dichloroethane	ND	1.00	"							
1,2-Dichloroethane	ND	1.00	"							
1,1-Dichloroethene	ND	1.00	"							
cis-1,2-Dichloroethene	ND	1.00	"							
trans-1,2-Dichloroethene	ND	1.00	"							
1,2-Dichloropropane	ND	1.00	"							

North Creek Analytical - Bothell

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Jeff Gerdes, Project Manager

North Creek Analytical, Inc.
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URS Corporation
 1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project: Magic Cleaners
 Project Number: 33756663
 Project Manager: David Raubvogel

Reported:
 08/24/04 14:22

Volatile Organic Compounds by EPA Method 8260B - Quality Control
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch 4H16048: Prepared 08/16/04 Using EPA 5030B

Blank (4H16048-BLK1)

1,3-Dichloropropane	ND	1.00	ug/l							
2,2-Dichloropropane	ND	1.00	"							
1,1-Dichloropropene	ND	1.00	"							
cis-1,3-Dichloropropene	ND	1.00	"							
trans-1,3-Dichloropropene	ND	1.00	"							
Ethylbenzene	ND	1.00	"							
Hexachlorobutadiene	ND	1.00	"							
Methyl tert-butyl ether	ND	2.00	"							
2-Hexanone	ND	10.0	"							
Isopropylbenzene	ND	1.00	"							
p-Isopropyltoluene	ND	1.00	"							
4-Methyl-2-pentanone	ND	10.0	"							
Methylene chloride	ND	5.00	"							
Naphthalene	ND	1.00	"							
n-Propylbenzene	ND	1.00	"							
Styrene	ND	1.00	"							
1,2,3-Trichlorobenzene	ND	1.00	"							
1,2,4-Trichlorobenzene	ND	1.00	"							
1,1,1,2-Tetrachloroethane	ND	1.00	"							
1,1,1,2,2-Tetrachloroethane	ND	1.00	"							
Tetrachloroethene	ND	1.00	"							
Toluene	ND	1.00	"							
1,1,1-Trichloroethane	ND	1.00	"							
1,1,2-Trichloroethane	ND	1.00	"							
Trichloroethene	ND	1.00	"							
Trichlorofluoromethane	ND	1.00	"							
1,2,3-Trichloropropane	ND	1.00	"							
1,2,4-Trimethylbenzene	ND	1.00	"							
1,3,5-Trimethylbenzene	ND	1.00	"							
Vinyl chloride	ND	1.00	"							
o-Xylene	ND	1.00	"							
m,p-Xylene	ND	2.00	"							

Surrogate: 1,2-DCA-d4 20.2 " 20.0 101 70-130

North Creek Analytical - Bothell

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Jeff Gerdes, Project Manager

North Creek Analytical, Inc.
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URS Corporation
 1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project: Magic Cleaners
 Project Number: 33756663
 Project Manager: David Raubvogel

Reported:
 08/24/04 14:22

Volatile Organic Compounds by EPA Method 8260B - Quality Control
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4H16048: Prepared 08/16/04 Using EPA 5030B

Blank (4H16048-BLK1)

Surrogate: Toluene-d8	19.5		ug/l	20.0		97.5	70-130			
Surrogate: 4-BFB	20.4		"	20.0		102	70-130			

LCS (4H16048-BS1)

Benzene	10.4	1.00	ug/l	10.0		104	80-120			
Chlorobenzene	11.2	1.00	"	10.0		112	77-120			
1,1-Dichloroethene	10.6	1.00	"	10.0		106	80-120			
Methyl tert-butyl ether	11.1	2.00	"	10.0		111	80-120			
Toluene	11.4	1.00	"	10.0		114	80-120			
Trichloroethene	10.2	1.00	"	10.0		102	80-120			
Surrogate: 1,2-DCA-d4	19.5		"	20.0		97.5	70-130			
Surrogate: Toluene-d8	20.3		"	20.0		102	70-130			
Surrogate: 4-BFB	19.9		"	20.0		99.5	70-130			

LCS Dup (4H16048-BS1)

Benzene	10.5	1.00	ug/l	10.0		105	80-120	0.957	20	
Chlorobenzene	11.3	1.00	"	10.0		113	77-120	0.889	20	
1,1-Dichloroethene	10.7	1.00	"	10.0		107	80-120	0.939	20	
Methyl tert-butyl ether	10.6	2.00	"	10.0		106	80-120	4.61	20	
Toluene	10.9	1.00	"	10.0		109	80-120	4.48	20	
Trichloroethene	10.3	1.00	"	10.0		103	80-120	0.976	20	
Surrogate: 1,2-DCA-d4	19.6		"	20.0		98.0	70-130			
Surrogate: Toluene-d8	20.8		"	20.0		104	70-130			
Surrogate: 4-BFB	20.3		"	20.0		102	70-130			

North Creek Analytical - Bothell

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Jeff Gerdes, Project Manager

North Creek Analytical, Inc.
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URS Corporation Project: Magic Cleaners
 1501 4th Ave, Suite 1400 Project Number: 33756663
 Seattle, WA/USA 98101-1616 Project Manager: David Raubvogel Reported: 08/24/04 14:22

Volatile Organic Compounds by GC/MS with Selected Ion Monitoring - Quality Control
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4H23026: Prepared 08/20/04 Using EPA 5030B

Blank (4H23026-BLK1)

Vinyl chloride	ND	0.100	ug/l							
Surrogate: 1,2-DCA-d4	1.48		"	2.00		74.0	70-130			
Surrogate: Toluene-d8	2.12		"	2.00		106	70-130			
Surrogate: 4-BFB	2.11		"	2.00		106	70-130			

LCS (4H23026-BS1)

Surrogate: 1,2-DCA-d4	1.46		ug/l	2.00		73.0	70-130			
Surrogate: Toluene-d8	2.15		"	2.00		108	70-130			
Surrogate: 4-BFB	2.00		"	2.00		100	70-130			

LCS Dup (4H23026-BSD1)

Surrogate: 1,2-DCA-d4	1.46		ug/l	2.00		73.0	70-130			
Surrogate: Toluene-d8	2.15		"	2.00		108	70-130			
Surrogate: 4-BFB	2.06		"	2.00		103	70-130			

Matrix Spike (4H23026-MS1)

Source: B4H0295-01

Surrogate: 1,2-DCA-d4	1.47		ug/l	2.00		73.5	70-130			
Surrogate: Toluene-d8	1.87		"	2.00		93.5	70-130			
Surrogate: 4-BFB	1.98		"	2.00		99.0	70-130			

North Creek Analytical - Bothell

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Jeff Gerdes, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project: Magic Cleaners Project Number: 33756663 Project Manager: David Raubvogel	Reported: 08/24/04 14:22
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Notes and Definitions

- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference

North Creek Analytical - Bothell

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Jeff Gerdes, Project Manager

North Creek Analytical, Inc.
Environmental Laboratory Network



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SEATTLE

05 October 2004

David Raubvogel
URS Corporation
1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

RE: Magic Cleaners

Enclosed are the results of analyses for samples received by the laboratory on 09/21/04 15:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jeff Gerdes
Project Manager



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URS Corporation
 1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project: Magic Cleaners
 Project Number: 33756663
 Project Manager: David Raubvogel

Reported:
 10/05/04 13:12

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-2	B4I0556-01	Water	09/20/04 17:00	09/21/04 15:00

North Creek Analytical - Bothell

Jeff Gerdes, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project: Magic Cleaners Project Number: 33756663 Project Manager: David Raubvogel	Reported: 10/05/04 13:12
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Volatile Organic Compounds by EPA Method 8260B
North Creek Analytical - Bothell

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								

MW-2 (B4I0556-01) Water Sampled: 09/20/04 17:00 Received: 09/21/04 15:00

Q-24

Acetone	ND	20.0		ug/l	1	4J01019	09/29/04	09/29/04	EPA 8260B	
Benzene	ND	1.00		"	"	"	"	"	"	
Bromobenzene	ND	1.00		"	"	"	"	"	"	
Bromochloromethane	ND	1.00		"	"	"	"	"	"	
Bromodichloromethane	ND	1.00		"	"	"	"	"	"	
Bromoform	ND	1.00		"	"	"	"	"	"	
Bromomethane	ND	2.00		"	"	"	"	"	"	
2-Butanone	ND	10.0		"	"	"	"	"	"	
n-Butylbenzene	ND	1.00		"	"	"	"	"	"	
sec-Butylbenzene	ND	1.00		"	"	"	"	"	"	
tert-Butylbenzene	ND	1.00		"	"	"	"	"	"	
Carbon disulfide	ND	1.00		"	"	"	"	"	"	
Carbon tetrachloride	ND	1.00		"	"	"	"	"	"	
Chlorobenzene	ND	1.00		"	"	"	"	"	"	
Chloroethane	ND	1.00		"	"	"	"	"	"	
Chloroform	ND	1.00		"	"	"	"	"	"	
Chloromethane	ND	5.00		"	"	"	"	"	"	
2-Chlorotoluene	ND	1.00		"	"	"	"	"	"	
4-Chlorotoluene	ND	1.00		"	"	"	"	"	"	
Dibromochloromethane	ND	1.00		"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	5.00		"	"	"	"	"	"	
1,2-Dibromoethane	ND	1.00		"	"	"	"	"	"	
Dibromomethane	ND	1.00		"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.00		"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.00		"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.00		"	"	"	"	"	"	
Dichlorodifluoromethane	ND	1.00		"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.00		"	"	"	"	"	"	
1,2-Dichloroethane	ND	1.00		"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.00		"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.00		"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.00		"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.00		"	"	"	"	"	"	
1,3-Dichloropropane	ND	1.00		"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.00		"	"	"	"	"	"	

North Creek Analytical - Bothell

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Jeff Gerdes, Project Manager

North Creek Analytical, Inc.
Environmental Laboratory Network



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URS Corporation
 1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project: Magic Cleaners
 Project Number: 33756663
 Project Manager: David Raubvogel

Reported:
 10/05/04 13:12

Volatile Organic Compounds by EPA Method 8260B
North Creek Analytical - Bothell

Analyte	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Result	Limit							
MW-2 (B410556-01) Water Sampled: 09/20/04 17:00 Received: 09/21/04 15:00									
1,1-Dichloropropene	ND	1.00	ug/l	1	4J01019	09/29/04	09/29/04	"	Q-24
cis-1,3-Dichloropropene	ND	1.00	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	1.00	"	"	"	"	"	"	
Ethylbenzene	ND	1.00	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.00	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	2.00	"	"	"	"	"	"	
2-Hexanone	ND	10.0	"	"	"	"	"	"	
isopropylbenzene	ND	1.00	"	"	"	"	"	"	
n-Isopropyltoluene	ND	1.00	"	"	"	"	"	"	
1-Methyl-2-pentanone	ND	10.0	"	"	"	"	"	"	
Methylene chloride	ND	5.00	"	"	"	"	"	"	
Naphthalene	ND	1.00	"	"	"	"	"	"	
n-Propylbenzene	ND	1.00	"	"	"	"	"	"	
styrene	ND	1.00	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.00	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.00	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.00	"	"	"	"	"	"	
1,1,1,2,2-Tetrachloroethane	ND	1.00	"	"	"	"	"	"	
Tetrachloroethene	1.63	1.00	"	"	"	"	"	"	
Toluene	ND	1.00	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.00	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.00	"	"	"	"	"	"	
Trichloroethene	ND	1.00	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.00	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.00	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.00	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.00	"	"	"	"	"	"	
Vinyl chloride	ND	1.00	"	"	"	"	"	"	
m-Xylene	ND	1.00	"	"	"	"	"	"	
n,p-Xylene	ND	2.00	"	"	"	"	"	"	
Surrogate: 1,2-DCA-d4	103 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	99.0 %	70-130			"	"	"	"	
Surrogate: 4-BFB	101 %	70-130			"	"	"	"	

North Creek Analytical - Bothell

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project: Magic Cleaners Project Number: 33756663 Project Manager: David Raubvogel	Reported: 10/05/04 13:12
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Volatile Organic Compounds by GC/MS with Selected Ion Monitoring
North Creek Analytical - Bothell

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								

MW-2 (B4I0556-01) Water Sampled: 09/20/04 17:00 Received: 09/21/04 15:00

Vinyl chloride	ND	0.100		ug/l	1	4J04068	10/04/04	10/04/04	EPA 8260B Mod	
Surrogate: 1,2-DCA-d4	105 %	70-130				"	"	"	"	
Surrogate: Toluene-d8	102 %	70-130				"	"	"	"	
Surrogate: 4-BFB	102 %	70-130				"	"	"	"	

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 Seattle, WA/USA 98101-1616

Project: Magic Cleaners
 Project Number: 33756663
 Project Manager: David Raubvogel

Reported:
 10/05/04 13:12

Volatile Organic Compounds by EPA Method 8260B - Quality Control
North Creek Analytical - Bothell

Analyte	Result	Reporting	Units	Spike Level	Source	%REC		RPD		Notes
		Limit			Result	%REC	Limits	RPD	Limit	

Batch 4J01019: Prepared 09/29/04 Using EPA 5030B

Blank (4J01019-BLKI)

Acetone	ND	20.0	ug/l
Benzene	ND	1.00	"
Bromobenzene	ND	1.00	"
Bromochloromethane	ND	1.00	"
Bromodichloromethane	ND	1.00	"
Bromoform	ND	1.00	"
Bromomethane	ND	2.00	"
2-Butanone	ND	10.0	"
n-Butylbenzene	ND	1.00	"
sec-Butylbenzene	ND	1.00	"
tert-Butylbenzene	ND	1.00	"
Carbon disulfide	ND	1.00	"
Carbon tetrachloride	ND	1.00	"
Chlorobenzene	ND	1.00	"
Chloroethane	ND	1.00	"
Chloroform	ND	1.00	"
Chloromethane	ND	5.00	"
2-Chlorotoluene	ND	1.00	"
4-Chlorotoluene	ND	1.00	"
Dibromochloromethane	ND	1.00	"
1,2-Dibromo-3-chloropropane	ND	5.00	"
1,2-Dibromoethane	ND	1.00	"
Dibromomethane	ND	1.00	"
1,2-Dichlorobenzene	ND	1.00	"
1,3-Dichlorobenzene	ND	1.00	"
1,4-Dichlorobenzene	ND	1.00	"
Dichlorodifluoromethane	ND	1.00	"
1,1-Dichloroethane	ND	1.00	"
1,2-Dichloroethane	ND	1.00	"
1,1-Dichloroethene	ND	1.00	"
cis-1,2-Dichloroethene	ND	1.00	"
trans-1,2-Dichloroethene	ND	1.00	"
1,2-Dichloropropane	ND	1.00	"

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URS Corporation
 1501 4th Ave, Suite 1400
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Project: Magic Cleaners
 Project Number: 33756663
 Project Manager: David Raubvogel

Reported:
 10/05/04 13:12

Volatile Organic Compounds by EPA Method 8260B - Quality Control
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4J01019: Prepared 09/29/04 Using EPA 5030B

Blank (4J01019-BLK1)

1,3-Dichloropropane	ND	1.00	ug/l							
2,2-Dichloropropane	ND	1.00	"							
1,1-Dichloropropene	ND	1.00	"							
cis-1,3-Dichloropropene	ND	1.00	"							
trans-1,3-Dichloropropene	ND	1.00	"							
Ethylbenzene	ND	1.00	"							
Hexachlorobutadiene	ND	1.00	"							
Methyl tert-butyl ether	ND	2.00	"							
2-Hexanone	ND	10.0	"							
Isopropylbenzene	ND	1.00	"							
p-Isopropyltoluene	ND	1.00	"							
4-Methyl-2-pentanone	ND	10.0	"							
Methylene chloride	ND	5.00	"							
Naphthalene	ND	1.00	"							
n-Propylbenzene	ND	1.00	"							
Styrene	ND	1.00	"							
1,2,3-Trichlorobenzene	ND	1.00	"							
1,2,4-Trichlorobenzene	ND	1.00	"							
1,1,1,2-Tetrachloroethane	ND	1.00	"							
1,1,2,2-Tetrachloroethane	ND	1.00	"							
Tetrachloroethene	ND	1.00	"							
Toluene	ND	1.00	"							
1,1,1-Trichloroethane	ND	1.00	"							
1,1,2-Trichloroethane	ND	1.00	"							
Trichloroethene	ND	1.00	"							
Trichlorofluoromethane	ND	1.00	"							
1,2,3-Trichloropropane	ND	1.00	"							
1,2,4-Trimethylbenzene	ND	1.00	"							
1,3,5-Trimethylbenzene	ND	1.00	"							
Vinyl chloride	ND	1.00	"							
o-Xylene	ND	1.00	"							
m,p-Xylene	ND	2.00	"							
Surrogate: 1,2-DCA-d4	20.2		"	20.0		101	70-130			

North Creek Analytical - Bothell

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URS Corporation
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Project: Magic Cleaners
 Project Number: 33756663
 Project Manager: David Raubvogel

Reported:
 10/05/04 13:12

Volatile Organic Compounds by EPA Method 8260B - Quality Control
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4J01019: Prepared 09/29/04 Using EPA 5030B

Blank (4J01019-BLK1)

Surrogate: Toluene-d8	19.6		ug/l	20.0		98.0	70-130			
Surrogate: 4-BFB	20.2		"	20.0		101	70-130			

LCS (4J01019-BS1)

Benzene	10.8	1.00	ug/l	10.0		108	80-120			
Chlorobenzene	10.7	1.00	"	10.0		107	77-120			
1,1-Dichloroethene	11.6	1.00	"	10.0		116	80-120			
Methyl tert-butyl ether	9.44	2.00	"	10.0		94.4	80-120			
Toluene	10.9	1.00	"	10.0		109	80-120			
Trichloroethene	11.7	1.00	"	10.0		117	80-120			

Surrogate: 1,2-DCA-d4	20.1		"	20.0		100	70-130			
Surrogate: Toluene-d8	19.9		"	20.0		99.5	70-130			
Surrogate: 4-BFB	20.0		"	20.0		100	70-130			

LCS Dup (4J01019-BSD1)

Benzene	10.5	1.00	ug/l	10.0		105	80-120	2.82	20	
Chlorobenzene	10.5	1.00	"	10.0		105	77-120	1.89	20	
1,1-Dichloroethene	11.3	1.00	"	10.0		113	80-120	2.62	20	
Methyl tert-butyl ether	8.97	2.00	"	10.0		89.7	80-120	5.11	20	
Toluene	10.5	1.00	"	10.0		105	80-120	3.74	20	
Trichloroethene	11.3	1.00	"	10.0		113	80-120	3.48	20	

Surrogate: 1,2-DCA-d4	19.9		"	20.0		99.5	70-130			
Surrogate: Toluene-d8	20.3		"	20.0		102	70-130			
Surrogate: 4-BFB	20.1		"	20.0		100	70-130			

North Creek Analytical - Bothell

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Volatile Organic Compounds by GC/MS with Selected Ion Monitoring - Quality Control
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4J04068: Prepared 10/04/04 Using EPA 5030B

Blank (4J04068-BLK1)

Vinyl chloride	ND	0.100	ug/l							
Surrogate: 1,2-DCA-d4	1.99		"	2.00		99.5	70-130			
Surrogate: Toluene-d8	2.00		"	2.00		100	70-130			
Surrogate: 4-BFB	2.09		"	2.00		104	70-130			

LCS (4J04068-BS1)

Vinyl chloride	1.74	0.100	ug/l	2.00		87.0	70-130			
Surrogate: 1,2-DCA-d4	2.04		"	2.00		102	70-130			
Surrogate: Toluene-d8	2.16		"	2.00		108	70-130			
Surrogate: 4-BFB	2.07		"	2.00		104	70-130			

LCS Dup (4J04068-BSD1)

Vinyl chloride	1.77	0.100	ug/l	2.00		88.5	70-130	1.71	20	
Surrogate: 1,2-DCA-d4	1.99		"	2.00		99.5	70-130			
Surrogate: Toluene-d8	1.93		"	2.00		96.5	70-130			
Surrogate: 4-BFB	1.97		"	2.00		98.5	70-130			

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Notes and Definitions

- Q-24 This sample was received at a pH>2 and analyzed outside of the method recommended hold time of seven days for unpreserved or inadequately preserved samples.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference

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