GROUNDWATER MONITORING PROGRAM – JUNE, 2006
GARDINER EXPRESSWAY DISMANTLING
LAKESHORE BOULEVARD EAST RECONSTRUCTION AT LESLIE STREET
TORONTO, ONTARIO

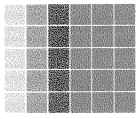
Prepared For:

CITY OF TORONTO
C/O URS CANADA INC.

Prepared by:

SHAHEEN & PEAKER LIMITED

Project: SP3977C
June 30, 2006



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Project: SP3977C

June 30, 2006

City of Toronto
c/o URS Canada Inc.
75 Commerce Valley Drive East
Thornhill, Ontario
L3T 7N9

Attention: Mr. Keith Hutchinson, P.Eng., Senior Project Manager

Dear Mr. Hutchinson

Groundwater Monitoring Program – June 2006
Gardiner Expressway Dismantling
Lakeshore Boulevard East Reconstruction at Leslie Street
Toronto, Ontario

Shaheen & Peaker Limited (S&P) was retained by URS Canada Inc. (URS) on behalf of the City of Toronto to conduct a groundwater monitoring program at the above captioned site. This work was requested by URS to confirm that the environmentally quality of the groundwater at the subject site remains unaffected by the presence of impacted soil on-site. The groundwater monitoring program is a requirement of the Risk Management Plan (RMP) developed for the Site Specific Risk Assessment (SSRA) based remediation of the subject site. These results update those previously presented in our letter dated June 20, 2005.

Groundwater levels were measured on June 9, 2006 and are summarized in **Table 1**. Based on these measurements, the inferred direction of groundwater flow is southwesterly towards Lake Ontario. A localized depression of the shallow groundwater table was located at the area between monitoring wells BH604 and BH605A which could be explained by an unnamed creek previously present in this area and interference from underground utility trenches (see **Drawing 2**).

Monitoring wells (BH602, BH603, BH604, BH605A, BH700, BH702, BH704A, BH705, BH706 and BH707) were located, purged and sampled on June 9 & 12, 2005. The location of the monitoring wells is shown on **Drawing 1**, attached. Prior to obtaining samples at the wells, a minimum of three standing well volumes of standing water were purged from each monitoring well. Groundwater samples were collected in laboratory supplied containers and placed in a cooler on ice for field storage and during transport to the laboratory for analysis.

No sheen was observed on any of the groundwater samples obtained from the monitoring wells during this investigation. Slight to very slight odours (sewage-like or musty swamp odours) were detected in groundwater samples from five groundwater monitoring wells (BH602, BH603,

BH604, BH700 and BH702). No noticeable odour was observed in any of the remaining groundwater samples obtained from the monitoring wells.

The laboratory analyses were performed by Entech Laboratories (a division of Agri-Service Laboratory Inc.) of Mississauga, Ontario. One groundwater sample from each monitoring well was submitted for analysis of volatile organic compounds (VOCs); metals; polycyclic aromatic hydrocarbons (PAHs); petroleum hydrocarbons in the F1-F4 fractions (PHC), and benzene, toluene, ethylbenzene and toluene (BTEX); and pH.

The results of the groundwater chemical analyses were evaluated using the Standards contained in the "Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the *Environmental Protection Act*", dated March, 2004 (Standards). These Standards, together with Ontario Regulation 153/04 issued in June, 2004 are similar to but replace the criteria contained in the MOE guideline issued in February 1997 entitled "Guideline for Use at Contaminated Sites in Ontario". The 1997 criteria were previously used by S&P to assess the site and these were the criteria that were in effect at the time of the remediation. One of the differences between the criteria in effect in 1997 and the Standards currently in effect is that the Standards for petroleum hydrocarbon criteria have changed. The 1997 criteria divided petroleum hydrocarbons into two assessment ranges; one from C_5 to C_{24} (gasoline/diesel range) and the other from $>C_{24}$ to C_{50} (heavy oil range). The current MOE Standards divide the hydrocarbon assessment Standards into four fractions, specifically: C_6-C_{10} (F1); $>C_{10}$-C_{16} (F2); $>C_{16}$-C_{34} (F3) and $>C_{34}$ (F4).

In accordance with O.Reg. 153/04, the site was assessed using the Standards contained in Table 3 of the above referenced Standards. The use of the MOE Table 3 Standards is considered appropriate by S&P based on the following:

- The adjacent properties are supplied by municipal drinking water not derived from groundwater and all properties within 100 m of the subject site are also assumed to be supplied by a similar source of municipal drinking water;
- The property is not located within an area designated as a well-head protection area or other designation identified for the protection of groundwater;
- The site is not within 30 m of a water body;
- The property is not located within or adjacent to an area designated by the municipality in its official plan as environmentally significant;
- The property is not located adjacent to a provincial or municipal park, adjacent to an area of natural significance or a wetland area and based on this, it is not anticipated to provide a habitat of endangered or threatened species identified by the Ministry of Natural Resources;
- The pH of the soil samples submitted for analysis in S&P's report "Soil and Groundwater Quality Assessment" (SP3201C, dated August 22, 2001) were 7.24 to 8.30 and therefore the pH is within the allowable range for the use of generic Standards for surface soil
- The site is not located within areas where the *Niagara Escarpment Planning and*

Development Act or the *Oak Ridges Moraine Conservation Act, 2001* apply.

- The subsurface soils at the subject site are considered by S&P to be coarse textured material in accordance with the definition from O.Reg 153/04.

Based on the above considerations, the Standards for community property use in a non-potable groundwater Standards for coarse textured soils contained in Table 3 of the Soil MOE Standards were used to evaluate the environmental quality of the groundwater encountered at the site. The MOE Table 3 Standards contained in the above publication were used to assess whether concentrations of contaminants in the groundwater were sufficiently elevated to require restoration (remedial action). The Certificates of Analysis are included in **Appendix A**.

The results, as shown in **Appendix A** indicate that the concentrations of most VOCs were less than the analytical Method Detection Limits (MDL), which are well below the MOE Table 3 Standards. Detectable concentrations of VOCs were present in the five of ten groundwater samples. Concentrations of the following six VOC parameters were slightly above the MDLs, but still well below the MOE Table 3 Standards for a non-potable groundwater condition for coarse textured soil: benzene, chlorobenzene, dichlorobenzene, ethylbenzene, toluene and xylenes.

The results, as shown in **Appendix A** indicate that the concentrations of metals in all groundwater samples analyzed met the MOE Table 3 Standards.

The results, as shown in **Appendix A** indicate that the concentrations of most PAH parameters were below the MDL, which are well below MOE Table 3 Standards. Detectable concentrations of four PAHs were present in the samples obtained from five of ten monitoring wells (BH605A, BH700, BH704A, BH706 and BH07) but in all cases the reported concentrations were more than one order of magnitude less than the MOE Table 3 Standards and all results met the MOE Table 3 Standards.

The results, as shown in **Appendix A** indicate that detectable BTEX concentrations were present in three of the ten monitoring wells. However, the BTEX concentrations were at least two orders of magnitude less than the MOE Table 3 Standards and all BTEX results met the MOE Table 3 Standards.

The MOE Table 3 Standards do not have numerical values for petroleum hydrocarbons (PHC) and as no free product or sheen was observed on either the water purged from the monitoring wells or the groundwater samples, the samples met the MOE Table 3 Standards. Detectable concentrations of PHC from the F1 fraction was reported in the groundwater sample from monitoring well BH602 and from the F2 fraction in the groundwater sample from monitoring well BH605A. The concentrations of PHC from the F3 and F4 fractions in the ten groundwater samples analyzed were all less than the MDLs.

Groundwater pH was found to vary from 6.8 to 7.9, which is within the expected range of pH for the greater Toronto area.

S&P recommends that groundwater monitoring should be carried out on an annual basis in accordance with the RMP.

We trust that the foregoing meets your current requirements. Please contact our office if you have any further questions.

Yours very truly,
SHAHEEN & PEAKER LIMITED
Prepared by:

Shafi Andseta, Ph.D., P.Geo.
Senior Geo-Environmental Scientist

Reviewed by:

David J. Baigent, P.Eng.
Environmental Manager, Southwest Ontario

Attachments: Table 1 – Groundwater Observations
Drawing 1 – Monitoring Well Location Plan
Drawing 2 – Groundwater Observations June 9, 2006
Appendix A – Certificates of Analyses

cc. Mr. George Rozanski, P.Eng., Senior Project Engineer – City of Toronto

DRAWINGS

TORONTO FILM STUDIOS

A.R. CLARKE & CO. LTD.

THE CANADIAN METAL CO. LTD.

BH700 75.91

BH602 75.87

BH603 76.01

BH702 75.89

BH704A 74.84

BH604 75.61

BH705 74.97

BH707 74.98

BH605A 75.31

BH706 75.26

BM157

76.00 m

75.50 m

75.00 m

LAKESHORE BOULEVARD EAST

LESLIE STREET

CANROOF CORPORATION

GREYHOUND

BREWERS RETAIL DISTRIBUTION CENTRE

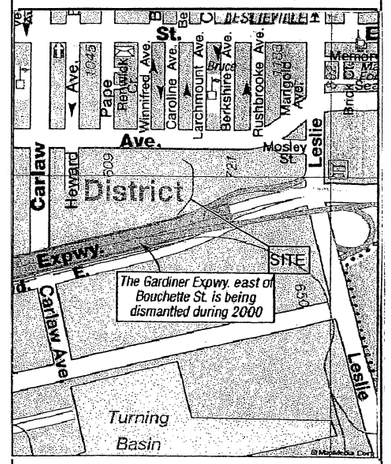
0 50 100 200

Metres (approximate)

LEGEND

75.00 m ———	Groundwater Table Elevation Contour (Geodetic) June 9, 2006
75.00 m — —	Approximate Groundwater Table Elevation Contour (Geodetic) June 9, 2006
BH704A 74.74	Monitoring Well Identification / Groundwater Table Elevation (m), June 9, 2006
BH604	Monitoring Well (by Shaheen & Peaker Limited, July & Sept. 2001)
BH605A	Replacement Monitoring Well (by Shaheen & Peaker Limited, July 2002)
	Benchmark

KEY PLAN



Note : 1. All dimensions are metric unless specified otherwise.

NO.	DESCRIPTION	DATE
REVISION		

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GROUNDWATER MONITORING - JUNE 2006
LAKESHORE BOULEVARD EAST
AT LESLIE STREET
TORONTO, ONTARIO

TITLE:
GROUNDWATER OBSERVATIONS
June 9, 2006

SCALE: ~1:2000	DATE: JUNE 2006
DRAWN BY: MV/SA	PROJECT NO.: SP3977C
APPROVED BY: DJB	DRAWING NO.: 2

TORONTO FILM STUDIOS

A.R. CLARKE & CO. LTD.

THE CANADIAN METAL CO. LTD.

BH700

BH602

BH603

BH702

BH604

BH704A

BH705

LAKESHORE BOULEVARD EAST

BH707

CANROOF CORPORATION

GREYHOUND

BREWERS RETAIL DISTRIBUTION CENTRE

BM157

LESLIE STREET

BH605A

BH706

N

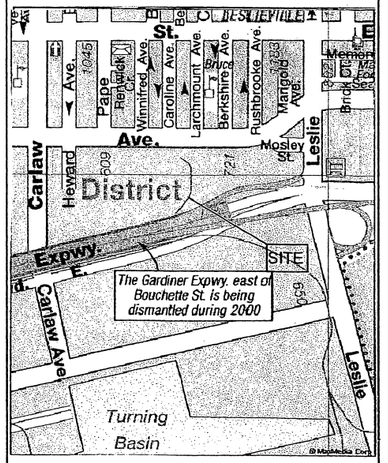
0 50 100 200

Metres (approximate)

LEGEND

BH604	Monitoring Well (by Shaheen & Peaker Limited, July & Sept. 2001)
BH605A	Replacement Monitoring Well (by Shaheen & Peaker Limited, July 2002)
BM157	Benchmark

KEY PLAN



Note : 1. All dimensions are metric unless specified otherwise.

NO.	DESCRIPTION	DATE
REVISION		

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GROUNDWATER MONITORING - June 2006
LAKESHORE BOULEVARD EAST
AT LESLIE STREET
TORONTO, ONTARIO

TITLE: MONITORING WELL LOCATION PLAN

SCALE: ~1:2000	DATE: JUNE 2006
DRAWN BY: RBW	PROJECT NO.: SP3977C
APPROVED BY: DJB	DRAWING NO.: 1

TABLE
GROUNDWATER OBSERVATIONS

TABLE 1: GROUNDWATER OBSERVATIONS

Monitoring Well	Groundwater Observations June 9, 2006		
	Elevation of Top of Riser * (m)	Depth Below Top of Riser (m)	Groundwater Elevation * (m)
BH602	77.87**	2.00	75.87
BH603	77.47**	1.46	76.01
BH604	77.47**	1.86	75.61
BH605A* **	77.79	2.48	75.31
BH700	77.02**	1.11	75.91
BH702	77.19**	1.30	75.89
BH704A* **	77.02**	2.18	74.84
BH705	77.39**	2.42	74.97
BH706	77.48	2.22	75.26
BH707	77.02**	2.04	74.98

NOTES:

1. * Geodetic elevations are referenced to the Benchmark No.BM157 (Geodetic elevation – 76.986 meters), located on the northeast exterior wall of existing Brewers Retail Distribution Centre building at the southwest corner Lakeshore Blvd. East and Leslie St.
2. ** Elevation of top of the riser has been changed from that shown in S&P's report SP3977C, dated August 23, 2002.to reflect the reconstruction of the well cover.
3. *** Monitoring wells BH605 and BH704 were damaged due to onsite construction activities and replaced in July 2002 by BH605A and BH704A, respectively.

APPENDIX A

CERTIFICATES OF ANALYSES

Client: Shaheen & Peaker Ltd.
Attention: David Baigent
Client Reference: Proj.: SP3977C
Date Received: June 14, 2006
Date Analyzed: June 21, 2006
Date Reported: June 22, 2006
Sample Type: Ground Water

ENTECH
A Division of Agri-Service Lab Inc.
6820 Kitimat Rd., Unit #4
Mississauga, ON L5N 5M3
TEL: (905) 821-1112
FAX: (905) 821-2095

CERTIFICATE OF ANALYSIS

Volatile Organic Compounds	ENTECH # >> Sample I.D. >>	Table 3**	Lab Blank	67524 BH602-W	67525 BH603-W	67526 BH605A-W	67527 BH700-W	67527 dp BH700-W	67528 BH706-W	67529 BH707-W	Lab Spike Amount	Lab Spike Recovery
Units: ug/L (ppb)	MDL										(ug/L)	(%)
Chloromethane	0.30	-	<	<	<	<	<	<	<	<	20	130
Vinyl chloride	0.20	0.5	<	<	<	<	<	<	<	<	20	130
Bromomethane	0.30	3.7	<	<	<	<	<	<	<	<	20	130
Chloroethane	0.20	-	<	<	<	<	<	<	<	<	20	130
Trichlorofluoromethane	0.40	-	<	<	<	<	<	<	<	<	20	125
1,1-Dichloroethylene	0.20	0.66	<	<	<	<	<	<	<	<	10	120
Acetone	8.0	3,300	<	<	<	<	<	<	<	<	N/A	N/A
Methylene Chloride	0.30	50,000	<	<	<	<	<	<	<	<	10	112
t-1,2-Dichloroethylene	0.20	100	<	<	<	<	<	<	<	<	10	114
MTBE	1.5	50,000	<	<	<	<	<	<	<	<	98	88
1,1-Dichloroethane	0.20	9,000	<	<	<	<	<	<	<	<	N/A	N/A
cis-1,2-Dichloroethylene	0.30	70	<	<	<	<	<	<	<	<	10	102
MEK	0.8	50,000	<	<	<	<	<	<	<	<	94.4	102
Chloroform	0.30	430	<	<	<	<	<	<	<	<	10	113
1,1,1-Trichloroethane	0.30	200	<	<	<	<	<	<	<	<	10	112
Carbon Tetrachloride	0.20	17	<	<	<	<	<	<	<	<	10	106
Benzene	0.20	1,900	<	1.1	<	2.7	<	<	0.73	<	10	105
1,2-Dichloroethane	0.20	17	<	<	<	<	<	<	<	<	N/A	N/A
Trichloroethylene	0.20	50	<	<	<	<	<	<	<	<	10	117
1,2-Dichloropropane	0.20	9.3	<	<	<	<	<	<	<	<	10	100
Bromodichloromethane	0.20	50,000	<	<	<	<	<	<	<	<	10	101
Cis-1,3-Dichloropropene	0.20	3.8	<	<	<	<	<	<	<	<	10	72
MIBK	7.2	50,000	<	<	<	<	<	<	<	<	N/A	N/A
Toluene	0.20	5,900	<	0.51	<	0.22	<	<	<	<	10	96
tr-1,3-Dichloropropene	0.20	3.8	<	<	<	<	<	<	<	<	10	100
1,1,2-Trichloroethane	0.20	16,000	<	<	<	<	<	<	<	<	10	99

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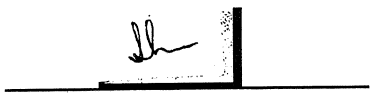
Units: ug/L (ppb)		MDL										(ug/L)	(%)
Tetrachloroethylene		0.20	5.0	<	<	<	<	<	<	<	<	10	100
Chlorodibromomethane		0.30	50,000	<	<	<	<	<	<	<	<	10	95
Ethylene Dibromide		0.20	3.3	<	<	<	<	<	<	<	<	10	96
Chlorobenzene		0.20	500	<	<	<	3.4	<	<	0.67	<	10	94
1,1,1,2-Tetrachloroethane		0.20	6.0	<	<	<	<	<	<	<	<	10	102
Ethylbenzene		0.20	28,000	<	4.4	<	<	<	<	<	<	10	113
m/p/o-Xylenes (Total)		0.40	5,600	<	6.7	<	<	<	<	<	<	30	113
Styrene		0.20	940	<	<	<	<	<	<	<	<	10	83
Bromoform		0.20	840	<	<	<	<	<	<	<	<	10	93
1,1,2,2-Tetrachloroethane		0.30	22	<	<	<	<	<	<	<	<	N/A	N/A
1,3-Dichlorobenzene		0.20	7,600	<	<	<	<	<	<	<	<	10	103
1,4-Dichlorobenzene		0.20	7,600	<	0.32	<	1.30	<	<	1.5	<	10	99
1,2-Dichlorobenzene		0.10	7,600	<	0.20	<	0.40	<	<	<	<	10	103
Surrogate Recovery:	Toluene-d8 (%)		-	83	90	115	112	105	98	93	98	100	98
	1,3-Dichlorobutane (%)		-	88	91	111	109	106	99	91	97	100	97
	4-Bromofluorobenzene (%)		-	85	95	119	117	113	104	92	97	100	103

Comments:
Ref. Method: Entech#OWA-2; Purge & Trap GC/MSD
Surrogate and spike recovery control limits = 70% to 130%; < = Not Detected (less than Method Detection Limit (MDL)).
Reported results only for specified samples tested;
**Standards For Use Under Part XV.1 of the Environmental Protection Act. March 09, 2004.
dp = Duplicate; N/A =Not Available



Dr. Asit Raksit, Ph.D., C. Chem.
Manager, Organics

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CERTIFICATE OF ANALYSIS

Volatile Organic Compounds	ENTECH # >> Sample I.D. >>	Table 3**	Lab Blank	67461 BH604-W	67462 BH702-W	67463 BH704A-W	67464 BH705-W	Lab Spike Amount	Lab Spike Recovery
Units: ug/L (ppb)	MDL							(ug/L)	(%)
Chloromethane	0.30	-	<	<	<	<	<	20	130
Vinyl chloride	0.20	0.5	<	<	<	<	<	20	130
Bromomethane	0.30	3.7	<	<	<	<	<	20	130
Chloroethane	0.20	-	<	<	<	<	<	20	130
Trichlorofluoromethane	0.40	-	<	<	<	<	<	20	125
1,1-Dichloroethylene	0.20	0.66	<	<	<	<	<	10	120
Acetone	8.0	3,300	<	<	<	<	<	N/A	N/A
Methylene Chloride	0.30	50,000	<	<	<	<	<	10	112
t-1,2-Dichloroethylene	0.20	100	<	<	<	<	<	10	114
MTBE	1.5	50,000	<	<	<	<	<	98	88
1,1-Dichloroethane	0.20	9,000	<	<	<	<	<	N/A	N/A
cis-1,2-Dichloroethylene	0.30	70	<	<	<	<	<	10	102
MEK	0.8	50,000	<	<	<	<	<	94.4	102
Chloroform	0.30	430	<	<	<	<	<	10	113
1,1,1-Trichloroethane	0.30	200	<	<	<	<	<	10	112
Carbon Tetrachloride	0.20	17	<	<	<	<	<	10	106
Benzene	0.20	1,900	<	0.34	<	0.52	<	10	105
1,2-Dichloroethane	0.20	17	<	<	<	<	<	N/A	N/A
Trichloroethylene	0.20	50	<	<	<	<	<	10	117
1,2-Dichloropropane	0.20	9.3	<	<	<	<	<	10	100
Bromodichloromethane	0.20	50,000	<	<	<	<	<	10	101
Cis-1,3-Dichloropropene	0.20	3.8	<	<	<	<	<	10	72
MIBK	7.2	50,000	<	<	<	<	<	N/A	N/A
Toluene	0.20	5,900	<	<	<	<	<	10	96
tr-1,3-Dichloropropene	0.20	3.8	<	<	<	<	<	10	100
1,1,2-Trichloroethane	0.20	16,000	<	<	<	<	<	10	99

Client: Shaheen & Peaker Ltd.
Attention: David Baigent
Client Reference: Proj.: SP3977C
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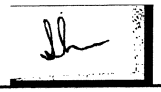
Volatile Organic Compounds	ENTECH # >> / Sample I.D. >>	Table 3**	Lab Blank	67461 BH604-W	67462 BH702-W	67463 BH704A-W	67464 BH705-W	Lab Spike Amount	Lab Spike Recovery
Units: ug/L (ppb)	MDL							(ug/L)	(%)
Tetrachloroethylene	0.20	5.0	<	<	<	<	<	10	100
Chlorodibromomethane	0.30	50,000	<	<	<	<	<	10	95
Ethylene Dibromide	0.20	3.3	<	<	<	<	<	10	96
Chlorobenzene	0.20	500	<	<	<	<	<	10	94
1,1,1,2-Tetrachloroethane	0.20	6.0	<	<	<	<	<	10	102
Ethylbenzene	0.20	28,000	<	<	<	<	<	10	113
m/p/o-Xylenes (Total)	0.40	5,600	<	<	<	<	<	30	113
Styrene	0.20	940	<	<	<	<	<	10	83
Bromoform	0.20	840	<	<	<	<	<	10	93
1,1,2,2-Tetrachloroethane	0.30	22	<	<	<	<	<	N/A	N/A
1,3-Dichlorobenzene	0.20	7,600	<	<	<	<	<	10	103
1,4-Dichlorobenzene	0.20	7,600	<	<	<	<	<	10	99
1,2-Dichlorobenzene	0.10	7,600	<	<	<	<	<	10	103
Surrogate Recovery: Toluene-d8 (%)		-	83	80	74	96	120	100	98
1,3-Dichlorobutane (%)		-	88	89	75	89	104	100	97
4-Bromofluorobenzene (%)		-	85	93	77	93	107	100	103

Comments:
Ref. Method: Entech#OWA-2; Purge & Trap GC/MSD
Surrogate and spike recovery control limits = 70% to 130%; < = Not Detected (less than Method Detection Limit (MDL)).
Reported results only for specified samples tested;
**Standards For Use Under Part XV.1 of the Environmental Protection Act. March 09, 2004.
N/A =Not Available



Dr. Asit Raksit, Ph.D., C. Chem.
Manager, Organics

Client: Shaheen & Peaker Ltd. (Burlington)
Attention: David Baigent
Client Reference: Proj/P.O: 3977C
Date Received: June 14, 2006
Date Analyzed: June 19/20, 2006
Date Reported: June 20, 2006
Sample Type: Ground Water

ENTECH
A Division of Agri-Service Lab Inc.
6820 Kitimat Rd., Unit #4
Mississauga, ONT L5N 5M3
TEL: (905) 821-1112
FAX: (905) 821-2095

Certificate of Analysis

Polycyclic Aromatic Hydrocarbons (PAH's)

Parameters	**ENTECH # >> Table 3***		**Lab**	**67524**	**67525**	**67526**	**67527**	**67528**	**67529**
	Sample # >>		**Blank**	BH602-W	BH603-W	BH605A-W	BH700-W	BH706-W	BH707-W
All units are in ug/L (ppb)	**MDL**								
Naphthalene	0.20	5900	<	<	<	<	<	1.00	<
Acenaphthylene	0.30	2000	<	<	<	<	<	<	<
Acenaphthene	0.30	1700	<	<	<	<	3.72	<	0.66
Fluorene	0.40	290	<	<	<	0.97	2.30	0.85	0.40
Phenanthrene	0.10	63	<	<	<	<	<	<	<
Anthracene	0.01	12	<	<	<	<	0.40	0.10	0.12
Fluoranthene	0.10	130	<	<	<	<	<	<	<
Pyrene	0.10	40	<	<	<	<	<	<	<
Benzo (a) anthracene	0.10	5.0	<	<	<	<	<	<	<
Chrysene	0.05	3.0	<	<	<	<	<	<	<
Benzo (b) fluoranthene	0.05	7.0	<	<	<	<	<	<	<
Benzo (k) fluoranthene	0.05	0.4	<	<	<	<	<	<	<
Benzo (a) pyrene	0.01	1.9	<	<	<	<	<	<	<
Indeno (1,2,3-cd) pyrene	0.10	0.27	<	<	<	<	<	<	<
Dibenzo (a,h) anthracene	0.10	0.25	<	<	<	<	<	<	<
Benzo (g,h,i) perylene	0.10	0.2	<	<	<	<	<	<	<
TOTAL PAH (sum of above)	**2.07**		-	-	-	**0.97**	**6.42**	**1.95**	**1.18**
Surrogate Recoveries (%)									
Phenanthrene-d10			106	102	97	115	104	109	103
Chrysene-d12			111	107	108	114	109	109	107
Perylene-d12			108	104	105	109	107	106	105

Comments:
MDL = Method Detection Limit; < = Not Detected (less than the MDL).
Ref. Method: Entech # OWA-1: solvent extraction/GC/MSD.
Surrogate recovery control limits = 70% - 130%.
*Standards For Use Under Part XV.1 of the Environmental Protection Act
Reported results only for specified samples tested.

Dr. Asit Raksit, Ph.D., C. Chem.
Manager-Organics

Client: Shaheen & Peaker Ltd. (Burlington)
Attention: David Baigent
Client Reference: Proj/P.O: 3977C
Date Received: June 12, 2006
Date Analyzed: June 19, 2006
Date Reported: June 20, 2006
Sample Type: Ground Water

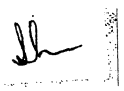
ENTECH
A Division of Agri-Service Lab Inc.
6820 Kitimat Rd., Unit #4
Mississauga, ONT L5N 5M3
TEL: (905) 821-1112
FAX: (905) 821-2095

Certificate of Analysis

Polycyclic Aromatic Hydrocarbons (PAH's)

Parameters	ENTECH # >>	Table 3*	Lab	67461	67462	67463	67464
	Sample # >>		Blank	BH604-W	BH702-W	BH704A-W	BH705-W
All units are in ug/L (ppb)	**MDL**						
Naphthalene	0.20	5900	<	<	<	<	<
Acenaphthylene	0.30	2000	<	<	<	<	<
Acenaphthene	0.30	1700	<	<	<	8.02	<
Fluorene	0.40	290	<	<	<	<	<
Phenanthrene	0.10	63	<	<	<	<	<
Anthracene	0.01	12	<	<	<	<	<
Fluoranthene	0.10	130	<	<	<	<	<
Pyrene	0.10	40	<	<	<	<	<
Benzo (a) anthracene	0.10	5.0	<	<	<	<	<
Chrysene	0.05	3.0	<	<	<	<	<
Benzo (b) fluoranthene	0.05	7.0	<	<	<	<	<
Benzo (k) fluoranthene	0.05	0.4	<	<	<	<	<
Benzo (a) pyrene	0.01	1.9	<	<	<	<	<
Indeno (1,2,3-cd) pyrene	0.10	0.27	<	<	<	<	<
Dibenzo (a,h) anthracene	0.10	0.25	<	<	<	<	<
Benzo (g,h,i) perylene	0.10	0.2	<	<	<	<	<
TOTAL PAH (sum of above)	**2.07**		-	-	-	**8.02**	-
Surrogate Recoveries (%)							
Phenanthrene-d10			106	105	89	102	104
Chrysene-d12			111	113	104	104	107
Perylene-d12			108	110	104	103	105

Comments:
MDL = Method Detection Limit; < = Not Detected (less than the MDL).
Ref. Method: Entech # OWA-1: solvent extraction/GC/MSD.
Surrogate recovery control limits = 70% - 130%.
*Standards For Use Under Part XV.1 of the Environmental Protection Act
Reported results only for specified samples tested.



Dr. Asit Raksit, Ph.D., C. Chem.
Manager-Organics

Client: Shaheen & Peaker Ltd. (Burlington)
Attention: David Baigent
Client Reference: Proj/P.O: SP3977C
Date Received: June 14, 2006
Date Analysed: June 16-19, 2006
Date Reported: June 20, 2006
Sample Type: Ground Water

ENTECH
A Division of Agri-Service Lab In
6820 Kitimat Rd., Unit #4
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FAX: (905) 821-2095

CERTIFICATE OF ANALYSIS

BTEX /F1-F4 Total Petroleum Hydrocarbons All Units are in ug/L (ppb)	Entech # >> Sample ID >> MDL	** Table 3	Lab Blank	67524 BH602-W	67525 BH603-W	67526 BH605A-W	67527 BH700-W	67528 BH706-W	67529 BH707-W	LCS Spike Amount ug/L	LCS Spike Recovery (%)
Benzene	0.2	1900	<	1.0	<	2.8	<	0.5	<	10	100
Toluene	0.2	5900	<	0.5	<	<	<	<	<	10	98
Ethylbenzene	0.2	28000	<	<	<	<	<	<	<	10	95
m/p-Xylenes	0.2		<	6.1	<	<	<	<	<	20	97
o-Xylene	0.2		<	<	<	<	<	<	<	10	96
Total Xylenes	0.4	5600	<	6.1	<	<	<	<	<	-	-
F1 (C6-C10)	100	N/V	<	112	<	<	<	<	<	200	80
F1 - BTEX* **	100	N/V	<	104.4	<	<	<	<	<		
F2 (C10-C16)	200	N/V	<	<	<	2000	<	<	<	8280	92
F3 (C16-C34)	200	N/V	<	<	<	<	<	<	<		
F4 (C34-C50)	400	N/V	<	<	<	<	<	<	<		
Chromatogram to baseline at nC50	Yes/No		Yes	Yes	Yes	Yes	Yes	Yes	Yes	-	-
Surrogate Recovery (%) For BTEX-F1			97	117	105	98	99	105	88	100	102

Reported results only for specified samples tested.

**Standards For Use Under Part XV.1 of the Environmental Protection Act. NV = No Value Derived.

Dr. Asit Raksit, Ph. D., C. Chem.
Manager, Organics

Client: **Shaheen & Peaker Ltd. (Burlington)**
Attention: David Baigent
Client Reference: Proj/P.O: SP3977C
Date Received: June 14, 2006
Date Analysed: June 16-19, 2006
Date Reported: June 20, 2006
Sample Type: Ground Water

ENTECH
A Division of Agri-Service Lab In
6820 Kitimat Rd., Unit #4
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TEL: (905) 821-1112
FAX: (905) 821-2095

Comments: ENTECH No. 67524 -67529

Ref. Method: Entech #: OWA-16A and OWA 16B. The analytical methods complies with the reference method of CCME-1, Tier I and MOE (O.R.153/04)
MDL = Method Detection Limit; < = Not Detected (less than MDL).
Surrogate recovery control limits = 70% - 130%
LCS (Laboratory Control Sample); LCS Spiked, F1=gasoline, F2-F4=Diesel/Motor Oil.
*** F1-BTEX where total BTEX values subtracted from F1

Unless otherwise qualified, the following quality control criteria have been met for the F1 hydrocarbon range:
1. All extraction and analysis holding times were met.
2. Instrument performance showing response factors for nC6 and nC10 within 30% of the response factor for toluene.
3. Linearity of gasoline response within 15% throughout the calibration range.

Unless otherwise qualified, the following quality control criteria have been met for the F2-F4 hydrocarbon ranges:
1. All extraction and analysis holding times were met.
2. Instrument performance showing nC10, nC16 and nC34 response factors within 10% of their average.
3. Instrument performance showing the C50 response factor within 30% of the average of the nC10, nC16 and nC34 response factors.
4. Linearity of diesel or motor oil response within 15% throughout the caliberation range.
5. PAH value not subtracted from fraction F2, F3 and F4

Dr. Asit Raksit, Ph. D., C. Chem.
Manager, Organics

Client: Shaheen & Peaker Ltd. (Burlington)
Attention: David Baigent
Client Reference: Proj/P.O: SP3977C
Date Received: June 12, 2006
Date Analysed: June 14-19, 2006
Date Reported: June 20, 2006
Sample Type: Ground Water

ENTECH
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CERTIFICATE OF ANALYSIS

BTEX /F1-F4 Total Petroleum Hydrocarbons All Units are in ug/L (ppb)	Entech # >> Sample ID >> MDL	** Table 3	Lab Blank	67461 BH604-W	67462 BH702-W	67463 BH704A-W	67464 BH705-W	LCS Spike Amount ug/L	LCS Spike Recovery (%)
Benzene	0.2	1900	<	<	<	<	<	10	100
Toluene	0.2	5900	<	<	<	<	<	10	98
Ethylbenzene	0.2	28000	<	<	<	<	<	10	95
m/p-Xylenes	0.2		<	<	<	<	<	20	97
o-Xylene	0.2		<	<	<	<	<	10	96
Total Xylenes	0.4	5600	<	<	<	<	<	-	-
F1 (C6-C10)	100	N/V	<	<	<	<	<	200	80
F1 - BTEX* **	100	N/V	<	<	<	<	<		
F2 (C10-C16)	200	N/V	<	<	<	<	<	8280	89
F3 (C16-C34)	200	N/V	<	<	<	<	<		
F4 (C34-C50)	400	N/V	<	<	<	<	<		
Chromatogram to baseline at nC50	Yes/No		Yes	Yes	Yes	Yes	Yes	-	-
Surrogate Recovery (%) For BTEX-F1			97	102	99	104	105	100	102

Reported results only for specified samples tested.

**Standards For Use Under Part XV.1 of the Environmental Protection Act. NV = No Value Derived.

Dr. Asit Raksit, Ph. D., C. Chem.
Manager, Organics

Client: **Shaheen & Peaker Ltd. (Burlington)**
Attention: David Baigent
Client Reference: Proj/P.O: SP3977C
Date Received: June 12, 2006
Date Analysed: June 14-19, 2006
Date Reported: June 20, 2006
Sample Type: Ground Water

ENTECH
A Division of Agri-Service Lab Inc.
6820 Kitimat Rd., Unit #4
Mississauga, ON L5N 5M3
TEL: (905) 821-1112
FAX: (905) 821-2095

Comments: ENTECH No. 67461 - 67464

Ref. Method: Entech #: OWA-16A and OWA 16B. The analytical methods complies with the reference method of CCME-1, Tier I and MOE (O.R.153/04)
MDL = Method Detection Limit; < = Not Detected (less than MDL).
Surrogate recovery control limits = 70% - 130%
LCS (Laboratory Control Sample); LCS Spiked, F1=gasoline, F2-F4=Diesel/Motor Oil.
*** F1-BTEX where total BTEX values subtracted from F1

Unless otherwise qualified, the following quality control criteria have been met for the F1 hydrocarbon range:
1. All extraction and analysis holding times were met.
2. Instrument performance showing response factors for nC6 and nC10 within 30% of the response factor for toluene.
3. Linearity of gasoline response within 15% throughout the calibration range.

Unless otherwise qualified, the following quality control criteria have been met for the F2-F4 hydrocarbon ranges:
1. All extraction and analysis holding times were met.
2. Instrument performance showing nC10, nC16 and nC34 response factors within 10% of their average.
3. Instrument performance showing the C50 response factor within 30% of the average of the nC10, nC16 and nC34 response factors.
4. Linearity of diesel or motor oil response within 15% throughout the caliberation range.
5. PAH value not subtracted from fraction F2, F3 and F4

Dr. Asit Raksit, Ph. D., C. Chem.
Manager, Organics

Client: **Shaheen & Peaker Ltd.**
Attention: **David Baigent**
Project: **SP3977c**
Sample Type: **Ground Water**
Date Sampled: **June 12/06**
Date Received: **June 14/06**
Date Analysed: **June 16-19/06**
Date Reported: **June 20/06**

ENTECH
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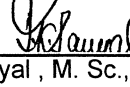
Certificate of Analysis
for
METAL SCAN
Data Pertain To Specific Sample(s) Tested

PARAMETER	MDL µg/L	TABLE 3 Non-Potable Ground Water (µg/L)	CONTROL SAMPLE Expected µg/L	CONTROL SAMPLE Found µg/L	SAMPLE DATA (µg/L) 67524 BH602-W	67525 BH603-W	67526 BH605A-W	67527 BH700-W
Aluminum	2	-	402	356	<2	<2	<2	<2
Antimony	1	16000	28	30.4	1.7	<1	<1	2.1
Arsenic	1	480	258	259	21.0	4.5	<1	2.4
Barium	0.1	23000	854	835	168	205	300	276
Beryllium	0.1	53	96	93.5	<0.1	<0.1	<0.1	<0.1
Boron	1.0	50000	898	840	2792	460	1168	435
Cadmium	0.2	11	507	473	0.80	<0.2	<0.2	<0.2
Calcium	10	-	6950	6694	171633	225633	180333	120333
Chromium	2	2000	376	389	52.7	<2	<2	<2
Cobalt	0.2	100	777	833	1.8	1.3	2.4	0.5
Copper	0.5	23	346	349	0.70	0.60	<0.5	16.2
Iron	4	-	338	305	1814	80.6	102	199
Lead	2	32	197	198	<2	<2	<2	<2
Magnesium	10	-	4555	4767	82139	109099	65389	27249
Manganese	1	-	140	132	329	1239	465	267
Mercury	0.02	0.12	4.1	4.2	<0.02	<0.02	0.03	<0.02
Molybdenum	1	7300	554	545	2.0	<1	<1	<1
Nickel	0.5	1600	469	455	2.9	1.00	1.0	1.5
Potassium	30	-	3225	3721	23570	18000	38910	25980
Selenium	1	50	19.0	17.2	<1	<1	<1	<1
Silver	0.5	1.2	198	196	<0.5	<0.5	<0.5	<0.5
Sodium	10	-	21650	24530	571973	515773	314473	255673
Vanadium	1	200	557	569	2.9	<1	<1	<1
Zinc	1	1100	274	270	3.9	<1	<1	<1

Table 3 : Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition
Sample Disposal: 30 Days from the Reporting Date.
Analyst(s): PI, BH, GZ
Metals: ICP-AES(EPA 3005/200.7/200.15)
Arsenic, Selenium & Antimony: HG-AAS/Digestion(EPA 3005A/7062/7742)
Mercury: CV-AAS(EPA 245.1)



Sam Sanyal , M. Sc.,C.Chem.
Manager, Inorganic Analysis.

Client:	**Shaheen & Peaker Ltd.**
Attention:	**David Baigent**
Project/P.O.:	**SP3977c**
Sample Type:	**Ground Water**
Date Sampled:	**June 09/06**
Date Received:	**June 12/06**
Date Analysed:	**June 14/06**
Date Reported:	**June 19/06**

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A Division of Agri-Service Lab Inc.
6820 Kitimat Rd., Unit #4,
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FAX: (905) 821-2095

Certificate of Analysis

for

METAL SCAN

Data Pertain To Specific Sample(s) Tested

PARAMETER	MDL µg/L	TABLE 3 Non-Potable Ground Water (µg/L)	CONTROL SAMPLE Expected µg/L	CONTROL SAMPLE Found µg/L	SAMPLE DATA (µg/L) Blank	67528 BH706-W	67529 BH707-W	67528 BH706-W Duplicate
Aluminum	2	-	402	356	<2	<2	<2	<2
Antimony	1	16000	28	30.4	<1	<1	<1	<1
Arsenic	1	480	258	259	<1	1.1	<1	<1
Barium	0.1	23000	854	835	<0.1	262	397	266
Beryllium	0.1	53	96	93.5	<0.1	<0.1	<0.1	<0.1
Boron	1.0	50000	898	840	<1	2072	614	2124
Cadmium	0.2	11	507	473	<0.2	<0.2	<0.2	<0.2
Calcium	10	-	6950	6694	<10	212533	145233	212533
Chromium	2	2000	376	389	<2	<2	<2	<2
Cobalt	0.2	100	777	833	<0.2	5.7	1.2	5.8
Copper	0.5	23	346	349	<0.5	7.8	5.5	7.6
Iron	4	-	338	305	<4	1161	69.7	1131
Lead	2	32	197	198	<2	<2	<2	<2
Magnesium	10	-	4555	4767	<10	133999	87479	135899
Manganese	1	-	140	132	<1	176	389	182
Mercury	0.02	0.12	4.1	4.2	<0.02	<0.02	<0.02	<0.02
Molybdenum	1	7300	554	545	<1	2.1	<1	1.4
Nickel	0.5	1600	469	455	<0.5	3.8	<0.5	3.1
Potassium	30	-	3225	3721	<30	74390	39190	76360
Selenium	1	50	19.0	17.2	<1	<1	<1	<1
Silver	0.5	1.2	198	196	<0.5	<0.5	<0.5	<0.5
Sodium	10	-	21650	24530	<10	233873	627073	235573
Vanadium	1	200	557	569	<1	<1	<1	<1
Zinc	1	1100	274	270	<1	<1	<1	<1

Table 3 : Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition
Sample Disposal: 30 Days from the Reporting Date.
Analyst(s): PI, BH, GZ
Metals: ICP-AES(EPA 3005/200.7/200.15)
Arsenic, Selenium & Antimony: HG-AAS/Digestion(EPA 3005A/7062/7742)
Mercury: CV-AAS(EPA 245.1)

Sam Sanyal , M. Sc.,C.Chem.
Manager, Inorganic Analysis.

Client:	**Shaheen & Peaker Ltd.**
Attention:	**David Baigent**
Project:	**SP3977c**
Sample Type:	**Ground Water**
Date Sampled:	**June 09/06**
Date Received:	**June 12/06**
Date Analysed:	**June 14/06**
Date Reported:	**June 19/06**

ENTECH

A Division of Agri-Service Lab Inc.

6820 Kitimat Rd., Unit #4,

TEL: (905) 821-1112

FAX: (905) 821-2095

Certificate of Analysis

for

METAL SCAN

Data Pertain To Specific Sample(s) Tested

PARAMETER	MDL µg/L	TABLE 3 Non-Potable Ground Water (µg/L)	CONTROL SAMPLE Expected µg/L	CONTROL SAMPLE Found µg/L	SAMPLE DATA (µg/L) 67461 BH604-W	67462 BH702-W	67463 BH704A-W	67464 BH705-W
Aluminum	2	-	402	409	<2	<2	<2	<2
Antimony	1	16000	28	26.9	1.4	4.1	4.6	5.5
Arsenic	1	480	258	257	2.6	1.1	3.7	21.4
Barium	0.1	23000	854	876	96.2	143	246	287
Beryllium	0.1	53	96	95.5	<0.1	<0.1	<0.1	<0.1
Boron	1.0	50000	898	843	1674	124	297	288
Cadmium	0.2	11	507	533	0.70	0.60	0.50	0.80
Calcium	10	-	6950	6803	88511	93651	208891	234191
Chromium	2	2000	376	396	<2	3.2	<2	<2
Cobalt	0.2	100	777	848	0.60	0.50	<0.2	<0.2
Copper	0.5	23	346	355	9.8	9.4	10.0	9.8
Iron	4	-	338	323	2438	694	3291	4025
Lead	2	32	197	196	<2	<2	<2	<2
Magnesium	10	-	4555	4712	28395	12485	17565	43455
Manganese	1	-	140	133	1165	512	514	1551
Mercury	0.02	0.12	4.1	4.2	<0.02	<0.02	<0.02	<0.02
Molybdenum	1	7300	554	535	<1	<1	<1	2.8
Nickel	0.5	1600	469	437	<0.5	0.60	<0.5	<0.5
Potassium	30	-	3225	3465	20930	81410	25530	17550
Selenium	1	50	19.0	18.72	<1	<1	<1	<1
Silver	0.5	1.2	198	204	<0.5	<0.5	<0.5	<0.5
Sodium	10	-	21650	23120	215400	964100	1267000	891600
Vanadium	1	200	557	589	<1	4.1	<1	<1
Zinc	1	1100	274	276	10.7	5.2	11.3	9.0

Table 3 : Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition

Sample Disposal: 30 Days from the Reporting Date.

Analyst(s): PI, BH, GZ

Metals: ICP-AES(EPA 3005/200.7/200.15)

Arsenic, Selenium & Antimony: HG-AAS/Digestion(EPA 3005A/7062/7742)

Mercury: CV-AAS(EPA 245.1)

Sam Sanyal , M. Sc.,C.Chem.
Manager, Inorganic Analysis.

Client: **Shaheen & Peaker Ltd.**
Attention: **David Baigent**
Project/P.O.: **SP3977c**
Sample Type: **Ground Water**
Date Sampled: **June 09/06**
Date Received: **June 12/06**
Date Analysed: **June 14/06**
Date Reported: **June 19/06**

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for
METAL SCAN
Data Pertain To Specific Sample(s) Tested

PARAMETER	MDL µg/L	TABLE 3 Non-Potable Ground Water (µg/L)	CONTROL SAMPLE Expected µg/L	CONTROL SAMPLE Found µg/L	SAMPLE DATA (µg/L) Blank	67464 BH705-W Duplicate		
Aluminum	2	-	402	409	<2	<2		
Antimony	1	16000	28	26.9	<1	5.3		
Arsenic	1	480	258	257	<1	25.9		
Barium	0.1	23000	854	876	<0.1	270		
Beryllium	0.1	53	96	95.5	<0.1	<0.1		
Boron	1.0	50000	898	843	<1	264		
Cadmium	0.2	11	507	533	<0.2	0.80		
Calcium	10	-	6950	6803	<10	237191		
Chromium	2	2000	376	396	<2	<2		
Cobalt	0.2	100	777	848	<0.2	<0.2		
Copper	0.5	23	346	355	<0.5	9.6		
Iron	4	-	338	323	<4	3899		
Lead	2	32	197	196	<2	<2		
Magnesium	10	-	4555	4712	<10	45115		
Manganese	1	-	140	133	<1	1483		
Mercury	0.02	0.12	4.1	4.2	<0.02	<0.02		
Molybdenum	1	7300	554	535	<1	2.2		
Nickel	0.5	1600	469	437	<0.5	<0.5		
Potassium	30	-	3225	3465	<30	16960		
Selenium	1	50	19.0	18.72	<1	<1		
Silver	0.5	1.2	198	204	<0.5	<0.5		
Sodium	10	-	21650	23120	<10	907000		
Vanadium	1	200	557	589	<1	<1		
Zinc	1	1100	274	276	<1	8.6		

Table 3 : Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition
Sample Disposal: 30 Days from the Reporting Date.
Analyst(s): PI, BH, GZ
Metals: ICP-AES(EPA 3005/200.7/200.15)
Arsenic, Selenium & Antimony: HG-AAS/Digestion(EPA 3005A/7062/7742)
Mercury: CV-AAS(EPA 245.1)

Sam Sanyal , M. Sc.,C.Chem.
Manager, Inorganic Analysis.

Client: **Shaheen & Peaker Ltd.**
Attention: **David Baigent**
Project: **SP3977C**
P.O. **SP3977C**
Sample Type: **Ground Water**
Date Received: **June 12/06**
Date Analysed: **June 19/06**
Date Reported: **June 20/06**

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Data Pertain To Specific Sample(s) Tested

PARAMETER	Units	CONTROL SAMPLE			SAMPLE DATA									
		Expected	Found	Recovery	67524	67525	67526	67527	67528	67529	67528			
				%	BH602-W	BH603-W	BH605A-W	BH700-W	BH706-W	BH707-W	BH706-W Duplicate			
pH	units	7.41	7.40	100	7.1	6.8	7.1	7.1	7.6	6.9	7.6			

Sample Disposal: 30 Days from the Reporting Date.
Analyst: SK

Method :
pH - Electrometric/pH-Meter (EPA 150.1)

Client:	**Shaheen & Peaker Ltd.**
Attention:	**David Baigent/Doug Fisher**
Project/P.O.:	**SP3977c**
Sample Type:	**Ground Water**
Date Sampled:	**June 09/06**
Date Received:	**June 12/06**
Date Analysed:	**June 14/06**
Date Reported:	**June 16/06**

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Manager, Inorganic Analysis.

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Data Pertain To Specific Sample(s) Tested

PARAMETER	Units	CONTROL SAMPLE			SAMPLE DATA				
		Expected	Found	Recovery %	67461 BH604-W	67462 BH702-W	67463 BH704A-W	67464 BH705-W	67464 BH705-W Duplicate
pH	units	7.41	7.39	100	7.1	7.1	7.3	6.9	6.9

Sample Disposal: 30 Days from the Reporting Date.
Analyst: PI

Method :
pH - Electrometric/pH-Meter (EPA 150.1)