

CLIENT Sears Canada Inc.

PROJECT No. BCV61721.2

LOCATION 10045 King George Highway, Surrey, BC

DATUM Geodetic

DATES: BORING 22-Mar-04

WATER LEVEL 04-Aug-04, 1.65 m

TPC ELEV. 77.795

DEPTH (m)	ELEVATION (m)	SOIL DESCRIPTION	SOIL SYMBOL	WATER LEVEL	DEPTH (ft)	VAPOUR CONCENTRATIONS		SAMPLES			WELL CONSTRUCTION
						● %LEL	▲ ppm	TYPE	NUMBER	N-VALUE	
0	77.86	Asphalt				● 20 40 60 80	▲ 100 200 300 400				
	77.8	Brown silty SAND and GRAVEL									Solid PVC pipe in concrete seal
					2				GS 1		Solid PVC pipe in silica sand
					4				GS 2		Solid PVC in bentonite seal
					6						Solid PVC pipe in silica sand
					8				GS 3		Slotted PVC pipe in silica sand
	75.7	Brownish grey silty SAND and GRAVEL, hydrocarbon odour			10				GS 4		
					12	●			GS 5		
					14						
	73.3	Concrete			16	●			GS 6		
	73.0	Grey sandy SILT and GRAVEL (TILL)			18				GS 7		
	72.5	End of Borehole at 5.33m									Slough

LABORATORY ANALYSES:

Soil Sample No. 4: BTEX/VPH, EPH, PAH, MTBE  
 Soil Sample No. 5: BTEX/VPH, EPH, PAH, MTBE  
 Soil Sample No. 6: BTEX/VPH, EPH, PAH, MTBE  
 Groundwater: Dissolved Metals, LEPH/HEPH, BTEX/VPH



PROJECT NAME: Sears Surrey  
 PROJECT NO.: BCV61721.1  
 DATE: 24-Jun-04  
 TESTED BY: OM, TW  
 WEATHER: overcast/sunny

BOREHOLE I.D.: MW203  
 TEST DESCRIPTION: Manual Bail Test  
 SAMPLE RATE: Variable  
 STRATIGRAPHY: Silty SAND and GRAVEL (fill)  
 EQUIPMENT USED: waterra and electronic water level met

Hydraulic Conductivity, K (m/s) may be estimated according to the following relationship for single well response tests (Hvorslev, 1951):

$$K = \frac{r^2 \ln(L/r)}{2LT_0} \quad \text{where,} \quad \begin{array}{l} r = \text{effective well radius} \\ L = \text{saturated length of screen} \\ T_0 = \text{basic time Lag (see chart attached)} \end{array}$$

For the data tabulated below (and plotted on the attached Figure ), the following values of r, L and T<sub>0</sub> were used to estimate K:

r =	4.5	cm	K =	$\frac{r^2 \ln(L/r)}{2LT_0}$	=	7.21E-06
L =	2.6	m				
T <sub>0</sub> =	219	s	L/r > 8	OK		

DEPTH TO WATER (m)	RELATIVE DEPTH (cm)	ELAPSED TIME (min)	ELAPSED TIME (secs)	H-h (m)	H-h/H-Ho
Initial Conditions:					
1.454					
Recovery Data:					
3.830	-238	17.0	17	2.376	1.00
3.800	-235	20.0	20	2.346	0.99
3.760	-231	23.0	23	2.306	0.97
3.730	-228	27.0	27	2.276	0.96
3.700	-225	29.0	29	2.246	0.95
3.600	-215	38.0	38	2.146	0.90
3.550	-210	43.0	43	2.096	0.88
3.500	-205	47.0	47	2.046	0.86
3.450	-200	53.0	53	1.996	0.84
3.400	-195	58.0	58	1.946	0.82
3.350	-190	62.0	62	1.896	0.80
3.300	-185	72.0	72	1.846	0.78
3.250	-180	76.0	76	1.796	0.76
3.200	-175	84.0	84	1.746	0.73
3.150	-170	90.0	90	1.696	0.71
3.100	-165	98.0	98	1.646	0.69
3.050	-160	100.0	100	1.596	0.67
3.000	-155	113.0	113	1.546	0.65
2.950	-150	121.0	121	1.496	0.63
2.900	-145	128.0	128	1.446	0.61
2.850	-140	137.0	137	1.396	0.59
2.800	-135	146.0	146	1.346	0.57
2.750	-130	155.0	155	1.296	0.55
2.700	-125	165.0	165	1.246	0.52
2.650	-120	175.0	175	1.196	0.50
2.600	-115	183.0	183	1.146	0.48
2.550	-110	199.0	199	1.096	0.46
2.500	-105	213.0	213	1.046	0.44
2.450	-100	237.0	237	0.996	0.42
2.400	-95	262.0	262	0.946	0.40
2.350	-90	281.0	281	0.896	0.38
2.300	-85	312.0	312	0.846	0.36
2.250	-80	354.0	354	0.796	0.34
2.200	-75	395.0	395	0.746	0.31
2.150	-70	436.0	436	0.696	0.29