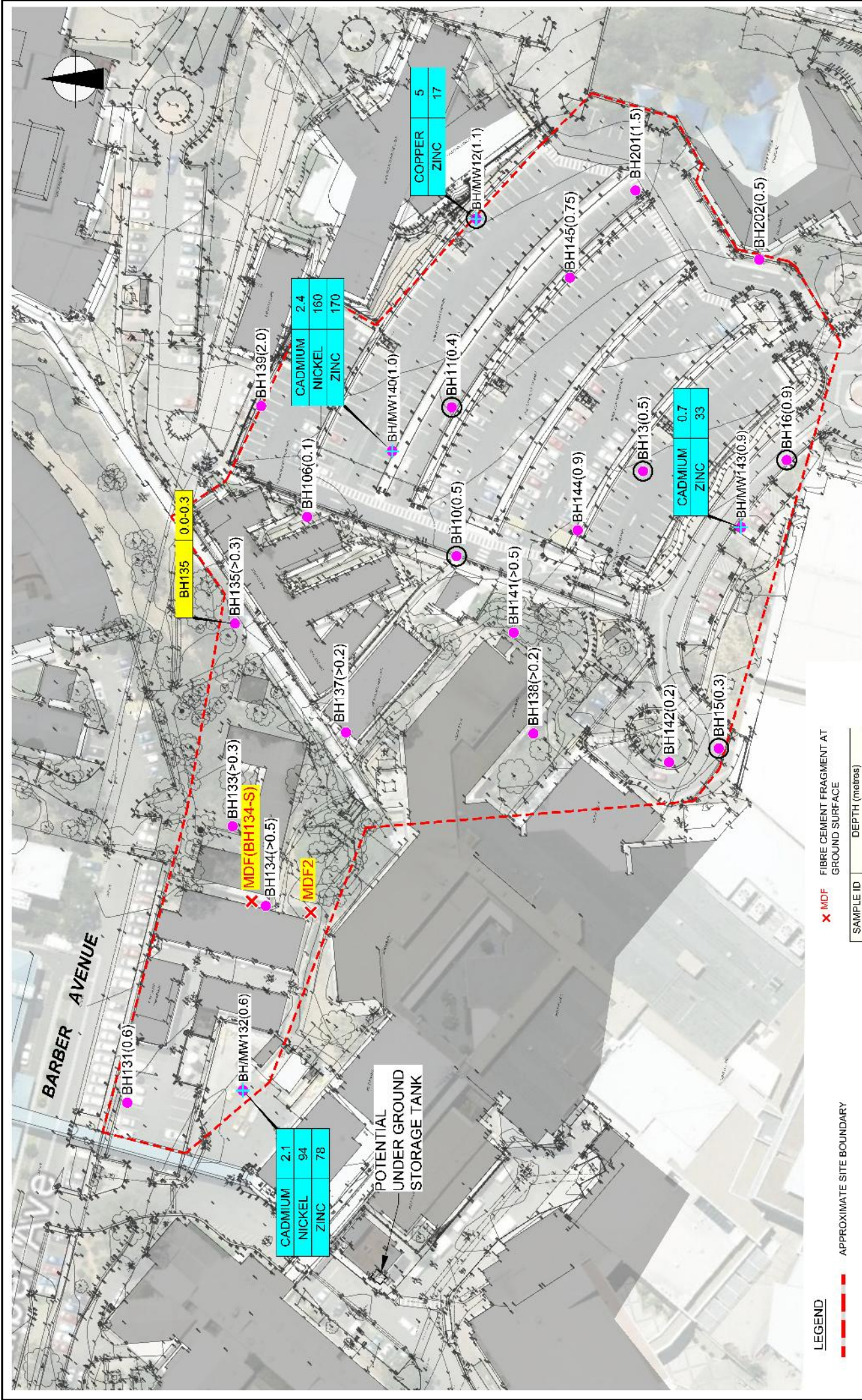
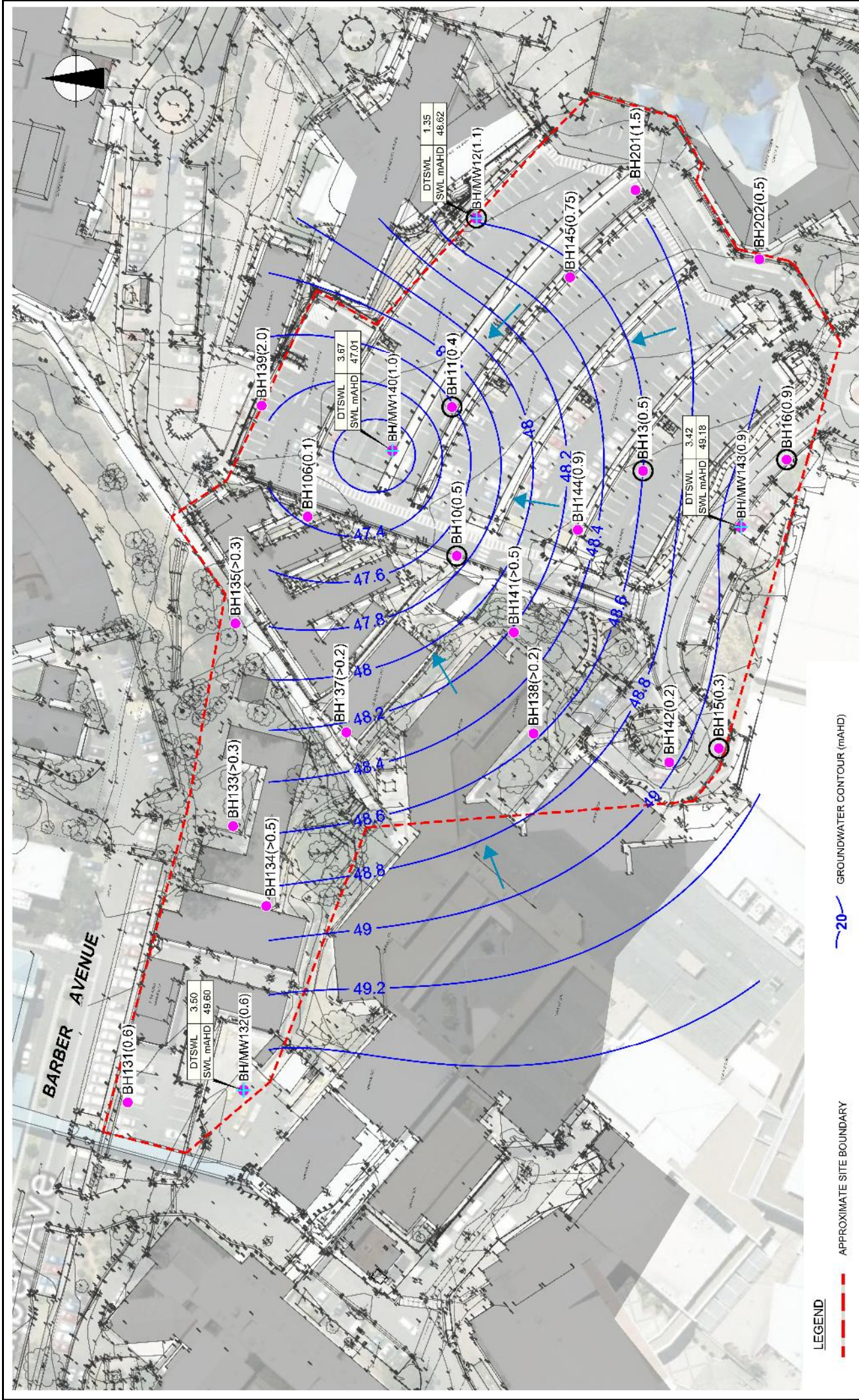


REPORT FIGURES





LEGEND

- APPROXIMATE SITE BOUNDARY
- BH (Fill Depth)
- BH/MW (Fill Depth)
- INFERRED GROUNDWATER FLOW DIRECTION
- DTSWL
- SWL mAHd
- GAUGED DEPTH TO WATER (metres)
- GROUNDWATER ELEVATION (mAHd)

GROUNDWATER CONTOUR PLAN

Location: NEPEAN HOSPITAL, DERBY STREET
KINGSWOOD, NSW

Report No: E29845KDrp12.3rev4

Figure No: 4

0 8 16 24 32 40
METRES

SCALE 1:800 @A3

This plan should be read in conjunction with the EIS report.

ENVIRONMENTAL INVESTIGATION SERVICES

LABORATORY SUMMARY TABLES

TABLE A
SOIL LABORATORY RESULTS COMPARED TO HILS
All data in mg/kg unless stated otherwise

		HEAVY METALS										PAHs		ORGANOCHLORINE PESTICIDES (OCPs)					OP PESTICIDES (OPPs)		TOTAL PCBs	ASBESTOS FIBRES
Sample Reference	Sample Depth	Sample Description	Arsenic	Cadmium	Chromium VI ²	Copper	Lead	Mercury	Nickel	Zinc	Total PAHs	B[a]P TEQ ¹	HCB	Endosulfan	Methoxychlor	Aldrin & Dieldrin	Chlordane	DOT, DDD & DDE	Heptachlor	Chlorpyrifos		
PQL - EnviroLab Services			4	0.4	1	1	1	0.1	1	1	...	0.5	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	100
Site Assessment Criteria (SAC) ¹			300	90	300	17000	600	80	1200	30000	300	3	10	340	400	10	70	400	10	250	1	Detected/Not Detected
BH131	0.1-0.3	Fill: Gravelly sand	LPQL	LPQL	10	59	3	LPQL	91	33	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	No asbestos detected
BH131	0.6-0.9	Silty clay	LPQL	LPQL	5	12	7	LPQL	4	13	LPQL	LPQL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BH132	0.1-0.3	Fill: Gravelly sand	11	LPQL	23	22	16	LPQL	20	19	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	No asbestos detected
BH132	0.7-0.95	Silty clay	12	LPQL	10	20	9	LPQL	5	17	LPQL	LPQL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BH132	4.3-4.5	Shale	6	LPQL	8	37	12	LPQL	5	28	LPQL	LPQL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BH133	0.0-0.3	Fill: Silty sand	LPQL	LPQL	38	20	20	LPQL	35	42	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	No asbestos detected
BH134	0.0-0.1	Fill: Silty clay	5	LPQL	14	23	16	LPQL	10	41	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	No asbestos detected
BH134	0.2-0.5	Fill: Silty clay	5	LPQL	14	18	13	LPQL	9	31	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	No asbestos detected
BH135	0.0-0.3	Fill: Silty sand	4	LPQL	26	33	40	LPQL	16	90	0.26	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	No asbestos detected
BH136	0.0-0.1	Fill: Silty sand	10	LPQL	23	30	38	LPQL	15	79	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	No asbestos detected
BH136	0.2-0.4	Silty clay	5	LPQL	16	16	15	LPQL	4	15	LPQL	LPQL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BH137	0.0-0.2	Fill: Silty clay	7	LPQL	20	27	26	LPQL	13	100	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	No asbestos detected
BH138	0.0-0.2	Fill: Silty sand	LPQL	LPQL	11	16	30	LPQL	8	78	0.26	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	No asbestos detected
BH139	0.1-0.3	Fill: Gravelly sand	LPQL	LPQL	12	31	24	LPQL	24	40	8.7	1.2	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	No asbestos detected
BH139	1.5-1.8	Fill: Silty clay	4	LPQL	28	21	14	LPQL	28	30	0.07	LPQL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BH139	3.0-3.3	Silty clay	14	LPQL	29	14	26	LPQL	5	24	LPQL	LPQL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BH140	0.1-0.3	Fill: Gravelly sand	4	LPQL	11	8	17	LPQL	6	29	0.2	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	No asbestos detected
BH140	1.1-1.3	Silty clay	8	LPQL	21	17	21	LPQL	6	19	LPQL	LPQL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BH140	5.8-6.0	Shale	13	LPQL	12	43	15	LPQL	48	130	LPQL	LPQL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BH141	0.0-0.1	Fill: Silty sandy clay	5	LPQL	14	30	13	LPQL	10	42	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	No asbestos detected
BH142	0.0-0.2	Fill: Silty sand	LPQL	LPQL	10	25	33	LPQL	13	74	0.39	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	No asbestos detected
BH142	0.2-0.4	Silty clay	LPQL	LPQL	7	10	5	LPQL	2	9	LPQL	LPQL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BH143	0.1-0.3	Fill: Gravelly sand	LPQL	LPQL	7	18	12	LPQL	8	28	0.56	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	No asbestos detected
BH143	0.9-1.2	Silty clay	5	LPQL	8	13	8	LPQL	3	14	LPQL	LPQL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BH143	4.3-4.5	Shale	9	LPQL	22	36	13	LPQL	25	84	LPQL	LPQL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BH144	0.1-0.3	Fill: Silty sandy gravel	LPQL	LPQL	89	32	6	LPQL	96	47	1.18	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	No asbestos detected
BH145	0.1-0.3	Fill: Gravelly sand	LPQL	LPQL	5	5	10	LPQL	6	21	1	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	No asbestos detected
BH145	0.75-0.95	Silty clay	LPQL	LPQL	10	10	7	LPQL	3	11	LPQL	LPQL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BH201	0.5-0.95	Fill: Sand	LPQL	LPQL	12	26	24	LPQL	9	63	1.4	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	No asbestos detected
BH201	1.5-1.95	Silty clay	4	LPQL	11	38	210	LPQL	9	36	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	NA
BH202	0.05-0.15	Fill: Gravelly sand	LPQL	LPQL	19	35	15	LPQL	14	49	9.39	0.8	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	No asbestos detected
BH202	0.5-0.6	Silty clay	LPQL	LPQL	8	12	10	LPQL	2	10	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	NA
BH135	0.0-0.3	Material	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Asbestos detected
MDf2	-	Material	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Asbestos detected
BH134.5	-	Material	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Asbestos detected
Total Number of Samples			32	32	32	32	32	32	32	32	32	32	21	21	21	21	21	21	21	21	21	20
Maximum Value			14	LPQL	89	59	210	LPQL	96	130	9.39	1.2	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	LPQL	NC

Explanation:

- Site Assessment Criteria (SAC): NEPM 2013, HIL-C: 'Public open space; secondary schools; and footpaths'
- The results are for Total Chromium which includes Chromium III and VI. For initial screening purposes, we have assumed that the samples contain only Chromium VI unless demonstrated otherwise by additional analysis.
- B[a]P TEQ - Benzo(a)pyrene Toxicity Equivalence Quotient has been calculated based on 8 carcinogenic PAHs and their Toxic Equivalence Factors (TEFs) outlined in NEPM 2013

Concentration above the SAC

VALUE

Abbreviations:
PAHs: Polycyclic Aromatic Hydrocarbons
B[a]P: Benzo(a)pyrene
PQL: Practical Quantification Limit
LPQL: Less than PQL
OPP: Organophosphorus Pesticides
OCP: Organochlorine Pesticides
PCBs: Polychlorinated Biphenyls
UCL: Upper Level Confidence Limit on Mean Value
HILs: Health Investigation Levels
NA: Not Analysed
NC: Not Calculated
NSL: No Set Limit
SAC: Site Assessment Criteria
NEPM: National Environmental Protection Measure