

APPENDIX A BORELOGS

Geological Borelog



LOCATION Graham Street, Albert Park		Borehole Log: BH1	Logged by JI
SURFACE ELEVATION	JOB NUMBER 210074		
GROUNDWATER NGWE	DATUM	PROJECT: Sth Melbourne Gasworks	Proj. Manager DJ
DRILL METHOD PT	DATE 27/1/2011		

STRATIGRAPHY	GRAPHIC LOG	Depth metres	SAMPLES				Moisture Content	PID		pH		Odour	Comments
			Disturbed	Undisturbed	Lost	Duplicate		Background	Reading	pH - soil	pH - water		
FILL Dark brown, sandy LOAM (topsoil) with some bark chips		0.2		█			M			6.5		No odour	
Yellow orange, silty CLAY with minor coke and ash		0.4		█			M			8			
Increase in coke, ash and brick fragments		0.6											
Loose, black, poorly sorted, silty SAND with some ash and coke		0.8					D						
Black, sandy SILT		1.0		█			D			8			
Dark yellow orange, sandy CLAY with some ash (reworked Brighton Group Sediments)		1.4											
NATURAL Yellow/orange/ cream, sandy SILT with trace grey streaks		1.6		█			D/M			4.5		EOH @ 2.7 mBGL	
		1.8											
		2.0											
Grey, clayey SAND with some orange and yellow mottling		2.4					M						
		2.6											
		2.8											
		3.0											

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Geological Borelog



LOCATION Graham St, Albert Park		Borehole Log: BH2	Logged by JI
SURFACE ELEVATION	JOB NUMBER 210074		
GROUNDWATER NGWE	DATUM	PROJECT: Sth Melbourne Gasworks	Proj. Manager DJ
DRILL METHOD PT	DATE 27/1/2011		

STRATIGRAPHY	GRAPHIC LOG	Depth metres	SAMPLES				Moisture Content	PID		pH		Odour	Comments
			Disturbed	Undisturbed	Lost	Duplicate		Background	Reading	pH - soil	pH - water		
FILL Dark brown, sandy LOAM with rootlets (topsoil)				█			D			7		Two samples collected @ 0.2-0.3 mBGL (for sulphur testing)	
Concrete		0.2		█			D	26	6.5				
Yellow/brown, gravelly SAND		0.4											
Loose, black, coke and ash (distinct layer)		0.6											
Firm, brown, silty CLAY with rootlets (reworked natural)		0.8											
Clayey SAND		1.0		█		M	13	6					
NATURAL Coarse, clayey SAND		1.2		█			D	19	5				
Yellow/orange, fine, clayey SAND		1.4										EOH @ 1.5 mBGL	
		1.6											
		1.8											
		2.0											
		2.2											
		2.4											
		2.6											
		2.8											
		3.0											

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Geological Borelog



LOCATION Graham Street, Albert Park		Borehole Log: BH3	Logged by JI
SURFACE ELEVATION	JOB NUMBER 210074		
GROUNDWATER NGWE	DATUM	PROJECT: Sth Melbourne Gasworks	Proj. Manager DJ
DRILL METHOD PT	DATE 27/1/2011		

STRATIGRAPHY	GRAPHIC LOG	Depth metres	SAMPLES					PID		pH		Odour	Comments
			Disturbed	Undisturbed	Lost	Duplicate	Moisture Content	Background	Reading	pH - soil	pH - water		
FILL Dark brown, sandy LOAM with rootlets (topsoil)							D				6		
Fine, white SAND with concrete fragments		-0.2					D				6		Two samples taken @ 0.2-0.3 mBGL
Brown, sandy CLAY with ash, coke and brick (reworked natural)		-0.4											
Brown/black SAND with ash, coke and brick fragments		-0.6					D/M		15	6.5			EOH @ 0.7 mBGL, refusal
		-0.8											
		-1.0											
		-1.2											
		-1.4											
		-1.6											
		-1.8											
		-2.0											
		-2.2											
		-2.4											
		-2.6											
		-2.8											
		-3.0											

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Geological Borelog



LOCATION Graham St, Albert Park		Borehole Log: BH4	Logged by JI
SURFACE ELEVATION	JOB NUMBER 210074		
GROUNDWATER NGWE	DATUM	PROJECT: Sth Melbourne Gasworks	Proj. Manager DJ
DRILL METHOD PT	DATE 27/1/2011		

STRATIGRAPHY	GRAPHIC LOG	Depth metres	SAMPLES					PID		pH		Odour	Comments
			Disturbed	Undisturbed	Lost	Duplicate	Moisture Content	Background	Reading	pH - soil	pH - water		
FILL Brown, sandy LOAM with rootlets (topsoil)				█						6		Strong hydrocarbon odour	No photo taken
Loose, black, sandy SILT with spent oxides and green staining		0.2		█				27	6.5				Two samples taken @ 0.2-0.3 mBGL
Brick fragments		0.4											Very green
White/brown, sandy CLAY with green staining, concrete fragments and rootlets		0.6		█				12	6				EOH @ 0.7 mBGL, refusal
		0.8											
		1.0											
		1.2											
		1.4											
		1.6											
		1.8											
		2.0											
		2.2											
		2.4											
		2.6											
		2.8											
		3.0											

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Geological Borelog



LOCATION Graham St, Albert Park		Borehole Log: BH5	Logged by JI
SURFACE ELEVATION	JOB NUMBER 210074		
GROUNDWATER NGWE	DATUM	PROJECT: Sth Melbourne Gasworks	Proj. Manager DJ
DRILL METHOD PT	DATE 27/1/2011		

STRATIGRAPHY	GRAPHIC LOG	Depth metres	SAMPLES					PID		pH		Odour	Comments
			Disturbed	Undisturbed	Lost	Duplicate	Moisture Content	Background	Reading	pH - soil	pH - water		
FILL Dark brown, sandy LOAM with rootlets (topsoil)				█						6.5			
Red/black, sandy CLAY with ash and coke (50%)		-0.2		█				18		8		Two samples taken from 0.2-0.3 mBGL	
Grey, silty CLAY with ash (50%)		-0.4											
Black, silty SAND with ash, coke and gravel		-0.6		█						8	Hydrocarbon odour	EOH @ 0.7 mBGL, refusal	
		-0.8											
		-1.0											
		-1.2											
		-1.4											
		-1.6											
		-1.8											
		-2.0											
		-2.2											
		-2.4											
		-2.6											
		-2.8											
		-3.0											

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Geological Borelog



LOCATION Graham St, Albert Park		Borehole Log: BH6	Logged by JI
SURFACE ELEVATION	JOB NUMBER 210074		
GROUNDWATER NGWE	DATUM	PROJECT: Sth Melbourne Gasworks	Proj. Manager DJ
DRILL METHOD PT	DATE 27/1/2011		

STRATIGRAPHY	GRAPHIC LOG	Depth metres	SAMPLES				Moisture Content	PID		pH		Odour	Comments
			Disturbed	Undisturbed	Lost	Duplicate		Background	Reading	pH - soil	pH - water		
FILL Dark brown, sandy LOAM with rootlets (topsoil)				■			D			6			
Loose, sandy GRAVEL with brick fragments		0.2											
Loose, black/yellow/brown clayey SAND		0.4		■			D			6.5		Two samples taken @ 0.3-0.4 mBGL	
		0.6											
core lost		0.8										Core lost between 0.7 and 1.5 mBGL	
		1.0											
		1.2											
		1.4											
Black, clayey SAND with some rock and rootlets		1.6					D						
NATURAL Orange/yellow/grey, sandy CLAY (Brighton Group sediments)		1.8		■			M			4			
		2.0											
		2.2					M			4			
		2.4											
		2.6											
		2.8											
		3.0										EOH @ 3.0 mBGL	

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Geological Borelog



LOCATION Graham St, Albert Park		Borehole Log: BH7	Logged by JI
SURFACE ELEVATION	JOB NUMBER 210074		
GROUNDWATER NGWE	DATUM	PROJECT: Sth Melbourne Gasworks	Proj. Manager DJ
DRILL METHOD PT	DATE 27/1/2011		

STRATIGRAPHY	GRAPHIC LOG	Depth metres	SAMPLES				Moisture Content	PID		pH		Odour	Comments
			Disturbed	Undisturbed	Lost	Duplicate		Background	Reading	pH - soil	pH - water		
FILL Loose, brown, sandy LOAM with rootlets (topsoil)		0.0 - 0.2		█			D			6.5		Slight PAH odour	Two samples taken from 0.3-0.4 mBGL
Brown/orange, sandy CLAY with gravel and coke (5%)		0.2 - 0.4		█						7.5			
Very loose, black coke and ash		0.4 - 0.6											
Black with some yellow, fine sandy SILT with lustrous appearance		0.6 - 0.8		█		D				8			
Yellow/brown, fine, sandy CLAY with some ash		0.8 - 1.0											
Loose, orange, silty SAND with some coke fragments		1.0 - 1.2											
		1.2 - 1.4		█			D			6			EOH @ 1.5 mBGL
		1.4 - 1.6											
		1.6 - 1.8											
		1.8 - 2.0											
		2.0 - 2.2											
		2.2 - 2.4											
		2.4 - 2.6											
		2.6 - 2.8											
		2.8 - 3.0											

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Geological Borelog



LOCATION Graham St, Albet Park		Borehole Log: BH8	Logged by JI
SURFACE ELEVATION	JOB NUMBER 210074		
GROUNDWATER NGWE	DATUM	PROJECT: Sth Melbourne Gasworks	Proj. Manager DJ
DRILL METHOD PT	DATE 27/1/2011		

STRATIGRAPHY	GRAPHIC LOG	Depth metres	SAMPLES				Moisture Content	PID		pH		Odour	Comments
			Disturbed	Undisturbed	Lost	Duplicate		Background	Reading	pH - soil	pH - water		
FILL Dark brown, sandy LOAM with coke (5%)				█			D			6.5			
Dark brown/black/yellow, sandy SILT with some ash and coke		0.2		█					20	8		Two samples taken @ 0.3-0.4 mBGL	
Grey, sandy GRAVEL		0.4											
Black/yellow/orange silty CLAY with some small coke fragments		0.6											
		0.8				M/D		22		8			
NATURAL White SAND with some black colouration (Port Melbourne Sands)		1.0											
Orange and grey silty SAND		1.2											
		1.4		█			D	14		4		EOH @ 1.5 mBGL	
		1.6											
		1.8											
		2.0											
		2.2											
		2.4											
		2.6											
		2.8											
		3.0											

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Geological Borelog



LOCATION Graham St, Albert Park		Borehole Log: BH9	Logged by JI
SURFACE ELEVATION	JOB NUMBER 210074		
GROUNDWATER NGWE	DATUM	PROJECT: Sth Melbourne Gasworks	Proj. Manager DJ
DRILL METHOD PT	DATE 27/1/2011		

STRATIGRAPHY	GRAPHIC LOG	Depth metres	SAMPLES				Moisture Content	PID		pH		Odour	Comments
			Disturbed	Undisturbed	Lost	Duplicate		Background	Reading	pH - soil	pH - water		
FILL Dark brown, sandy LOAM with rootlets		0.0											
Grey to brown, sandy GRAVEL with fill material and brick		0.2		█			D		6.5			PAH odour	
		0.4											
		0.6											
NATURAL Black/brown, fine, sandy CLAY (weathered)		0.8		█									
		1.0				M		9.5	6				
Yellow/grey, silty SAND (Brighton Group Sediments)		1.2											
		1.4		█		X	D	22	4				Dup1 & Split1 sampled @ 1.4-1.5 mBGL EOH @ 1.5 mBGL
		1.6											
		1.8											
		2.0											
		2.2											
		2.4											
		2.6											
		2.8											
		3.0											

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Geological Borelog



LOCATION Graham St, Albert Park		Borehole Log: BH10	Logged by JI
SURFACE ELEVATION	JOB NUMBER 210074		
GROUNDWATER NGWE	DATUM	PROJECT: Sth Melbourne Gasworks	Proj. Manager DJ
DRILL METHOD PT	DATE 28/1/2011		

STRATIGRAPHY	GRAPHIC LOG	Depth metres	SAMPLES				Moisture Content	PID		pH		Odour	Comments
			Disturbed	Undisturbed	Lost	Duplicate		Background	Reading	pH - soil	pH - water		
FILL Dark brown, sandy LOAM		0.0					D						
Brown and yellow, sandy CLAY with minor coke and ash		0.2		█			D			7.5			
		0.4											
		0.6											
Loose, black coke and ash (distinctive layer)		0.8											
		1.0		█			D		10.2	8			
Orange/yellow, sandy CLAY with minor ash and coke		1.2											
		1.4					M						
Loose, black, silty SAND with coke and ash (10%)		1.6		█									
Orange/yellow/brown, fine clayey SAND		1.8					M/W		6.6	8.5			EOH @ 1.8 mBGL, refusal on gravelly concrete
		2.0											
		2.2											
		2.4											
		2.6											
		2.8											
		3.0											

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Geological Borelog



LOCATION Graham St, Albert Park		Borehole Log: BH11	Logged by JI
SURFACE ELEVATION	JOB NUMBER 210074		
GROUNDWATER NGWE	DATUM	PROJECT: Sth Melbourne Gasworks	Proj. Manager DJ
DRILL METHOD PT	DATE 28/1/2011		

STRATIGRAPHY	GRAPHIC LOG	Depth metres	SAMPLES				Moisture Content	PID		pH		Odour	Comments
			Disturbed	Undisturbed	Lost	Duplicate		Background	Reading	pH - soil	pH - water		
FILL Dark brown, sandy LOAM with bark chips Loose, grey, sandy GRAVEL		0.0											
		0.2					D						
Loose sand with black tar, ash and coke inclusions		0.4											
		0.6		█			D	21.8	8			Strong PAH odour to 1.6m	
Loose, brown, fine SAND		0.8											
		1.0											
Black, coarse grained SAND		1.2											
		1.4		█			D	2.3	8				
Whiteish orange, fine, silty SAND		1.6											
		1.8					D/M						
Black staining		2.0											
		2.2											
NATURAL Grey, moderately grained, weathered clayey SAND (Port Melbourne Sands)		2.4		█									
		2.6		█			D/M	3.34					EOH @ 2.7 mBGL
		2.8											
		3.0											

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Geological Borelog



LOCATION Graham St, Albert Park		Borehole Log: BH13	Logged by SFL
SURFACE ELEVATION	JOB NUMBER 210074		
GROUNDWATER NGWE	DATUM	PROJECT: Sth Melbourne Gasworks	Proj. Manager DJ
DRILL METHOD PT	DATE 27/01/2011		

STRATIGRAPHY	GRAPHIC LOG	Depth metres	SAMPLES				Moisture Content	PID		pH		Odour	Comments
			Disturbed	Undisturbed	Lost	Duplicate		Background	Reading	pH - soil	pH - water		
FILL Dark brown, sandy LOAM with rootlets Dark brown, clayey SILT with minor ash		0.0		█									
		0.2		█									
Clay content increasing with an increase in ash, gravel and rubble content with some reworked natural yellow sand		0.4		█									
Dark brown clayey SAND with orange and red mottles		0.6		█									
Dark brown, coarse SAND with high ash content and gravel inclusions		0.8		█									Viscous tar @ 0.9 mBGL
		1.0											
		1.2		█									EOH @ 1.3 mBGL
		1.4											
		1.6											
		1.8											
		2.0											
		2.2											
		2.4											
		2.6											
		2.8											
		3.0											

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Geological Borelog



LOCATION		Borehole Log: BH14	Logged by VR
SURFACE ELEVATION	JOB NUMBER 210074		
GROUNDWATER	DATUM	PROJECT: Sth Melbourne Gasworks	Proj. Manager DJ
DRILL METHOD PT	DATE 27/01/2011		

STRATIGRAPHY	GRAPHIC LOG	Depth metres	SAMPLES				Moisture Content	PID		pH		Odour	Comments
			Disturbed	Undisturbed	Lost	Duplicate		Background	Reading	pH - soil	pH - water		
FILL Gravel/ bark chip surface Dark brown, LOAM with rootlets and charcoal inclusions		0.0 - 0.2	█							7.5		Slight hydrocarbon odour	
Mottled brown/ yellow sandy CLAY		0.2 - 0.4								8			
Dark brown/ black gravelly SAND with some clay. High ash content with large coke pieces.		0.4 - 0.6	█										
		0.6 - 0.8								5		Terracotta pipe	
With some basalt fragments		0.8 - 1.0	█										
With brick fragments		1.0 - 1.2											
		1.2 - 1.4								4		Large, very hard, vesicular coke fragment	
Light grey, reworked CLAY with minor rootlets		1.4 - 1.6	█									EOH @ 1.5 mBGL	
		1.6 - 1.8											
		1.8 - 2.0											

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Geological Borelog



LOCATION Graham St, Albert Park		Borehole Log: BH15	Logged by JI
SURFACE ELEVATION	JOB NUMBER 210074		
GROUNDWATER NGWE	DATUM	PROJECT: Sth Melbourne Gasworks	Proj. Manager DJ
DRILL METHOD HA	DATE 28/1/2011		

STRATIGRAPHY	GRAPHIC LOG	Depth metres	SAMPLES				Moisture Content	PID/FID		pH		Odour	Comments
			Disturbed	Undisturbed	Lost	Duplicate		Background	Reading	pH - soil	pH - water		
FILL Dark brown, sandy LOAM with rootlets		0.0	█				D	0.7	5			Earthy odour	
Dark brown/black, silty SAND		0.2					D					Slight PAH odour	
Black, sandy CLAY with brick, ash and coke		0.4	█				M/D	1.2	8				
Yellow, fine, silty SAND		0.6											
Loose, black, coarse coke and ash (distinct layer)		0.8	█				M/D	29	8			Strong PAH odour	
Grey, fine, sandy SILT with some black colourations		1.0											
		1.2	█				M/D	297	6.5			Very strong PAH odour	
		1.4											
NATURAL Yellow/grey, sandy CLAY with black colouration		1.6					M/D	175					
		1.8											
Grey/black, silty CLAY with black colouration		2.0										Slight PAH odour	
		2.2					M						
Grey, sandy CLAY (Port Melbourne Sands)		2.4											EOH @ 2.5 mBGL
		2.6											
		2.8											
		3.0											

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Geological Borelog



LOCATION		Borehole Log: BH16	Logged by VR
SURFACE ELEVATION	JOB NUMBER 210074		
GROUNDWATER	DATUM	PROJECT: Sth Melbourne Gasworks	Proj. Manager DJ
DRILL METHOD PT	DATE 10/2/2011		

STRATIGRAPHY	GRAPHIC LOG	Depth metres	SAMPLES				Moisture Content	PID		pH		Odour	Comments
			Disturbed	Undisturbed	Lost	Duplicate		Background	Reading	pH - soil	pH - water		
FILL Light grey, sandy GRAVEL													
Dark brown, sandy LOAM with medium plasticity						D							
Orange/red sandy CLAY with coke and brick fragments		0.2											
Brown, coarse clayey SAND with orange reworked sandy clay, coke, ash, brick fragments, minor roots and some concrete		0.4				DM	13		6				
Becoming darker with depth		0.6											
Red bricks		0.8				DM	22					EOH @ 0.9 mBGL, refusal on brick	
		1.0											

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Geological Borelog



LOCATION Graham Street, Albert Park		Borehole Log: TP1	Logged by VR
SURFACE ELEVATION	JOB NUMBER 210074		
GROUNDWATER NGWE	DATUM	PROJECT: Sth Melbourne Gasworks	Proj. Manager DJ
DRILL METHOD TP	DATE 18/01/2011		

STRATIGRAPHY	GRAPHIC LOG	Depth metres	SAMPLES				Moisture Content	PID		pH		Odour	Comments
			Disturbed	Undisturbed	Lost	Duplicate		Background	Reading	pH - soil	pH - water		
FILL Loose, light yellow/grey, fine to coarse gravelly SAND Dark brown, silty SAND with bluestone gravel		0				D	0	8					
		0.2							7.5				Some bricks encountered
Orange sandy CLAY with red/yellow/brown mottling, low plasticity and some high plasticity light grey clay with fragments of coke and charcoal		0.4				D/M	25.2	8.5				PVC irrigation pipe at 0.5-0.6 mBGL	
		0.6										EOH @ 0.6 mBGL due to burst water pipe	
		0.8											
		1.0											
		1.2											
		1.4											
		1.6											
		1.8											
		2.0											
		2.2											
		2.4											
		2.6											
		2.8											
		3.0											

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Geological Borelog



LOCATION Graham St, Albert Park		Borehole Log: TP2	Logged by VR
SURFACE ELEVATION	JOB NUMBER 210074		
GROUNDWATER NGWE	DATUM	PROJECT: Sth Melbourne Gasworks	Proj. Manager DJ
DRILL METHOD TP	DATE 18/01/2011		

STRATIGRAPHY	GRAPHIC LOG	Depth metres	SAMPLES					PID		pH		Odour	Comments
			Disturbed	Undisturbed	Lost	Duplicate	Moisture Content	Background	Reading	pH - soil	pH - water		
FILL Dark Brown, silty, sandy LOAM (topsoil) with grass rootlets		0.0 - 0.2		█					53.3	8.3			
Dark brown silty, gravelly SAND with some bricks, ash, coke and reworked orange/red natural sandy clay		0.2 - 1.0						47	9			PVC piping @ 0.4 mBGL	
NATURAL Red/orange, medium grained, rounded quartz SAND with some silt		1.0 - 1.3										Old brick structure @ 1.3 mBGL	
Pale yellowey grey, fine, silty SAND		1.3 - 1.6		█						9		Depth to natural varies from 1.3 mBGL to deeper (some brick below 1.3 mBGL)	
		1.6 - 3.0										EOH @ 1.6 mBGL	

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Geological Borelog



LOCATION Graham St, Albert Park		Borehole Log: TP3	Logged by VR
SURFACE ELEVATION	JOB NUMBER 210074		
GROUNDWATER NGWE	DATUM	PROJECT: Sth Melbourne Gasworks	Proj. Manager DJ
DRILL METHOD TP	DATE 18/01/2011		

STRATIGRAPHY	GRAPHIC LOG	Depth metres	SAMPLES				Moisture Content	PID		pH		Odour	Comments
			Disturbed	Undisturbed	Lost	Duplicate		Background	Reading	pH - soil	pH - water		
FILL Dark brown, clayey, sandy LOAM (topsoil) with grass rootlets and minor coke inclusions		0.0 - 0.2		█				3.6	6				
Red/yellow/orange mottled sandy CLAY (reworked natural), with minor coke and brick inclusions		0.2 - 0.6		█								Black agricultural pipe at 0.5 mBGL Brick wall structure 0.5-0.9 mBGL	
Black, fine ash layer		0.6 - 0.8											
NATURAL Creamy whitish grey, coarse, poorly sorted, moderately rounded SAND with high shell content.		0.8 - 1.0											
Grey, moderately well sorted, moderately coarse SAND with some black colouration (Port Melbourne sands)		1.0 - 1.4						10.3	9.5				
Yellow/orange sandy CLAY with some shell fragments. (Brighton Group Sediments)		1.4 - 1.8		█									
		1.8 - 2.0		█				4.3	9			EOH @ 2.1 mBGL	
		2.0 - 2.2											
		2.2 - 2.4											
		2.4 - 2.6											
		2.6 - 2.8											
		2.8 - 3.0											

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Geological Borelog



LOCATION Graham Street, Albert Park		Borehole Log: TP4	Logged by VR
SURFACE ELEVATION	JOB NUMBER 210074		
GROUNDWATER NGWE	DATUM	PROJECT: Sth Melbourne Gasworks	Proj. Manager DJ
DRILL METHOD TP	DATE 18/01/2011		

STRATIGRAPHY	GRAPHIC LOG	Depth metres	SAMPLES				Moisture Content	PID		pH		Odour	Comments
			Disturbed	Undisturbed	Lost	Duplicate		Background	Reading	pH - soil	pH - water		
FILL Dark brown, sandy, silty LOAM (topsoil) with rootlets			█					3	7				
Yellow/orange sandy CLAY		0.2		█		X		5	7.5			Dup1 and Split1 sampled 0.25-0.3 mBGL	
Dark brown, clayey SAND with spent oxides, fly ash, coke, brick and yellow sulphurous material		0.4		█				13	8			Depth of layers variable, forming lenses	
Concrete		0.6										EOH @ 0.6 mBGL, refusal on concrete	
		0.8											
		1.0											
		1.2											
		1.4											
		1.6											
		1.8											
		2.0											
		2.2											
		2.4											
		2.6											
		2.8											
		3.0											

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Geological Borelog



LOCATION Graham Street, Albert Park		Borehole Log: TP5	Logged by VR
SURFACE ELEVATION	JOB NUMBER 210074		
GROUNDWATER NGWE	DATUM	PROJECT: Sth Melbourne Gasworks	Proj. Manager DJ
DRILL METHOD TP	DATE 18/01/2011		

STRATIGRAPHY	GRAPHIC LOG	Depth metres	SAMPLES				Moisture Content	PID		pH		Odour	Comments
			Disturbed	Undisturbed	Lost	Duplicate		Background	Reading	pH - soil	pH - water		
FILL Dark brown LOAM (topsoil)		0.0		█				2.8	6.5			Grass surface	
Dark brown clayey SAND with yellow/orange sandy clay with coke, brick and ash		0.2											
		0.4											
		0.6											
SAND and black fly ash layer including charcoal, coke and clinker		0.8		█									
Loose dark grey SAND with coke fragments		1.0											
Ash, coke and clinker (distinct layer)	1.2		█				1.5	8.5					
NATURAL Loose coarse grey/brownish well rounded SAND (Port Melbourne Sands)	1.4												
Grey/yellow/orange clayey SAND (Brighton Group Sediments)	1.6												
	1.8		█				4.5	7.5				EOH @ 1.8 mBGL	
	2.0												
	2.2												
	2.4												
	2.6												
	2.8												
	3.0												

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Geological Borelog



LOCATION Graham St, Albert Park		Borehole Log: TP6	Logged by VR
SURFACE ELEVATION	JOB NUMBER 210074		
GROUNDWATER NGWE	DATUM	PROJECT: Sth Melbourne Gasworks	Proj. Manager DJ
DRILL METHOD TP	DATE 18/01/2011		

STRATIGRAPHY	GRAPHIC LOG	Depth metres	SAMPLES				Moisture Content	PID		pH		Odour	Comments
			Disturbed	Undisturbed	Lost	Duplicate		Background	Reading	pH - soil	pH - water		
FILL Dark brown, sandy LOAM (topsoil) with grass rootlets		0.0		█					0.4	6.5			
Some yellow sandy CLAY with minor coke and brick fragments		0.2		█					1.5	8		40cm wide concrete slab	
Yellow clayey SAND with coke		0.4										PVC irrigation pipe packed in fine yellow sand	
Dark brown clayey SAND with high content of ash and coke		0.6											
Solidified tar		0.8		█					1.1				
Loose dark grey coarse SAND with coke, rubble, wood and spent oxides content increasing with depth		1.2											
		1.8		█					0.8	8		EOH @ 1.8 mBGL	
		2.0											
		2.2											
		2.4											
		2.6											
		2.8											
		3.0											

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Geological Borelog



LOCATION Graham St, Albert Park		Borehole Log: TP7	Logged by VR
SURFACE ELEVATION	JOB NUMBER 210074		
GROUNDWATER NGWE	DATUM	PROJECT: Sth Melbourne Gasworks	Proj. Manager DJ
DRILL METHOD TP	DATE 18/01/2011		

STRATIGRAPHY	GRAPHIC LOG	Depth metres	SAMPLES				Moisture Content	PID		pH		Odour	Comments
			Disturbed	Undisturbed	Lost	Duplicate		Background	Reading	pH - soil	pH - water		
FILL Dark brown, sandy LOAM (topsoil) with grass rootlets Dark brown, silty SAND with rubble including tar, coke, brick, wood, metal and clinker		0.0		█			D	4.2	8.5				
		0.2											40cm wide concrete slab
Dark brown coarse silty SAND with coal, bricks and large very dense metal slag content increasing with depth		0.4		█					8.5			Very strong naphthalene odour (continued until EOH)	PVC irrigation pipe packed in fine yellow sand
		0.6											
Dark brown coarse silty SAND with coal, bricks and large very dense metal slag content increasing with depth		0.8											
		1.0											Solid Tar
Dark brown coarse silty SAND with coal, bricks and large very dense metal slag content increasing with depth		1.2											
		1.4											
Black tar semi-viscous in large clumps Solidified tar		1.6						20					
		1.8					W						
Black coarse clayey SAND with high sticky tar content		2.0		█				138					
		2.2											
Black coarse clayey SAND with high sticky tar content		2.4											
		2.6											
Light grey clayey fine SAND with some black staining.		2.8											Free water encountered
		3.0					M		6				EOH @ 3.0 mBGL

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Geological Borelog



LOCATION Graham St, Albert Park		Borehole Log: TP8	Logged by VR
SURFACE ELEVATION	JOB NUMBER 210074		
GROUNDWATER NGWE	DATUM	PROJECT: Sth Melbourne Gasworks	Proj. Manager DJ
DRILL METHOD TP	DATE 18/01/2011		

STRATIGRAPHY	GRAPHIC LOG	Depth metres	SAMPLES				Moisture Content	PID		pH		Odour	Comments
			Disturbed	Undisturbed	Lost	Duplicate		Background	Reading	pH - soil	pH - water		
FILL Dark brown, loose sandy LOAM (topsoil) with grass rootlets		0.0 - 0.2		█			D	16	8		No Odour		
NATURAL Light sandy CLAY Yellow/orange sandy CLAY (Brighton Group Sediments)		0.2 - 0.8				M	0.8	8				Dup 2 & Split 2 EOH @ 0.8 mBGL	
		0.8 - 3.0											

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Geological Borelog



LOCATION Graham St, Albert Park		Borehole Log: TP9	Logged by SF
SURFACE ELEVATION	JOB NUMBER 210074		
GROUNDWATER NGWE	DATUM	PROJECT: Sth Melbourne Gasworks	Proj. Manager DJ
DRILL METHOD TP	DATE 19/01/2011		

STRATIGRAPHY	GRAPHIC LOG	Depth metres	SAMPLES				Moisture Content	PID		pH		Odour	Comments
			Disturbed	Undisturbed	Lost	Duplicate		Background	Reading	pH - soil	pH - water		
FILL Dark brown, loose sandy LOAM (topsoil) with grass rootlets and chipbark		0.0		█			M	14	7.5				
Moist, grey, brown, orange clayey coarse SAND.		0.2											
Soft, loose, dark brown/ grey clayey SAND		0.4		█			M	37	8.5				
Loose black ash and coke with minor brick (Gasworks fill)		0.8		█			D	24	8		Mild PAH odour		
		1.0										EOH @ 1.0 mBGL, refusal on brick footing	
		1.2											
		1.4											
		1.6											
		1.8											
		2.0											
		2.2											
		2.4											
		2.6											
		2.8											
		3.0											

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Geological Borelog



LOCATION Graham St, Albert Park		Borehole Log: TP10	Logged by SF
SURFACE ELEVATION	JOB NUMBER 210074		
GROUNDWATER NGWE	DATUM	PROJECT: Sth Melbourne Gasworks	Proj. Manager DJ
DRILL METHOD TP	DATE 19/01/2011		

STRATIGRAPHY	GRAPHIC LOG	Depth metres	SAMPLES				Moisture Content	PID		pH		Odour	Comments
			Disturbed	Undisturbed	Lost	Duplicate		Background	Reading	pH - soil	pH - water		
FILL Dark brown, loose sandy LOAM (topsoil) with grass rootlets		0.0 - 0.2		█			M			7.5		NOTE: Unusually High PID readings Brick lined drain base & walls wide filled with ballast, running parallel to park perimeter (E-W) 5m from southern boundary	
Moist brown, sandy silty CLAY with 10% slag inclusions		0.2 - 0.4				M	320		7				
Brown sandy CLAY with brick, wood, large clusters of coke and slag		0.4 - 1.0		█									
		1.0 - 1.6		█		D	110		7	Cresote Odour			
Sandy CLAY with large concrete and brick footing		1.6 - 2.0										Potential perched water with a hydrocarbon sheen	
Ballast (50-100mm)		2.0 - 2.4											EOH @ 2.4 mBGL, refusal on base of drain
		2.4 - 2.6											
		2.6 - 2.8											
		2.8 - 3.0											

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Geological Borelog



LOCATION Graham St, Albert Park		Borehole Log: TP11	Logged by DJ
SURFACE ELEVATION	JOB NUMBER 210074		
GROUNDWATER NGWE	DATUM	PROJECT: Sth Melbourne Gasworks	Proj. Manager DJ
DRILL METHOD TP	DATE 19/01/2011		

STRATIGRAPHY	GRAPHIC LOG	Depth metres	SAMPLES				Moisture Content	PID		pH		Odour	Comments
			Disturbed	Undisturbed	Lost	Duplicate		Background	Reading	pH - soil	pH - water		
FILL Dark brown, loose sandy clayey LOAM with grass rootlets (topsoil)		0.0 - 0.2		█						6.5		Earthy Odour	NOTE: Unusual PID readings
Dark brown silty CLAY		0.2 - 0.6		█				23		8			
Dark brown, silty sandy CLAY with bricks and minor coke		0.6 - 1.2										Slight odour from 1m PAH/Tar	
Coarse sand layer with some orange/yellow/red sandy CLAY (re-worked Brighton Group)		1.2 - 1.4		█				40		5			
Hard tar layer (not viscous)		1.4 - 1.6					M						Digging stepped back in order to avoid hard layer
NATURAL Yellow/grey stained CLAY with fine sand		1.6 - 1.8											
Mottled blue/grey Port Melbourne sands		1.8 - 2.0		█			M	130		6			EOH @ 2.1mBGL (Pipes on either side, natural but stained (PM sands reached))
		2.0 - 2.2											
		2.2 - 2.4											
		2.4 - 2.6											
		2.6 - 2.8											
		2.8 - 3.0											

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Geological Borelog



LOCATION Graham St, Albert Park		Borehole Log: TP12	Logged by DJ
SURFACE ELEVATION	JOB NUMBER 210074		
GROUNDWATER NGWE	DATUM	PROJECT: Sth Melbourne Gasworks	Proj. Manager DJ
DRILL METHOD TP	DATE 19/01/2011		

STRATIGRAPHY	GRAPHIC LOG	Depth metres	SAMPLES				Moisture Content	PID		pH		Odour	Comments
			Disturbed	Undisturbed	Lost	Duplicate		Background	Reading	pH - soil	pH - water		
Fill Loose, dark brown sandy SILT with rootlets		0.0	█						6.5		No odour in topsoil	Iron construction debris @ 0.2 mBGL	
Medium dense, dark brown, sandy CLAY with brick, rubble and minor coke pieces		0.2	█					122	8				
Dark brown silty SAND with high brick and concrete content with black staining and minor yellow/orange sandy CLAY		0.4											Slight odour in the rubble
		0.6	█					131	8				
Light yellowish brown SAND with rubble and coke pieces up to 300mm in size		1.0											
Moist, dark greyish yellow, coarse SAND with some clay, grey staining and ash		1.4											Strong PAH odour till EOH
	1.6					M		147*	4			Resistance on brick layer (foundations?) 2 pipes 700mm diameter running towards E-W * soil caught in PID probe, causing unusually high readings	
	1.8	█										EOH @ 1.8 mBGL due to large pipes obstructing digging. Port Melbourne Sands reached (though stained)	
		2.0											
		2.2											
		2.4											
		2.6											
		2.8											
		3.0											

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Geological Borelog



LOCATION Graham St, Albert Park		Borehole Log: TP13	Logged by VR
SURFACE ELEVATION	JOB NUMBER 210074		
GROUNDWATER NGWE	DATUM	PROJECT: Sth Melbourne Gasworks	Proj. Manager DJ
DRILL METHOD TP	DATE 19/01/2011		

STRATIGRAPHY	GRAPHIC LOG	Depth metres	SAMPLES				Moisture Content	PID		pH		Odour	Comments
			Disturbed	Undisturbed	Lost	Duplicate		Background	Reading	pH - soil	pH - water		
FILL Dark brown, sandy loam		0.0		█				3.8	6			No odour	Grass surface
Dark brown, silty CLAY with brick fragments		0.2						4.8	8			No odour	
Yellow/orange sandy CLAY with red/white mottles, some brick fragments and minor coke		0.4		█									Concrete slab- moved digger forwards
Loose, dark brown-black ash and coke layer, with minor coarse sand		0.6											
Dark brown/black, coarse, silty SAND with some small charcoal pieces (lightweight)		0.8		█				4.9	8			Possible slight odour	1.5m long, 700mm diameter pipe (cast iron?) dug up. Full of ash
Grey brown colouration		1.0											
		1.2											
		1.4											
		1.6				M							
Lighter brown, coarse SAND with some clay inclusions and coke/ash		1.8										Strong PAH odour	PVC piping
NATURAL Dark blue-grey (stained), coarse, well rounded, clayey SAND with some fine, light grey sand		2.0		█								Strong odour	
		2.2				M			7.5				
Light creamy grey, silty SAND with some black staining (Port Melbourne Sands)		2.4						70*	4 (?)			Slight PAH odour	PID may not have read correctly
		2.6											EOH @ 2.4 mBGL
		2.8											
		3.0											

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Geological Borelog



LOCATION Graham Stree, Albert Park		Borehole Log: TP14	Logged by VR
SURFACE ELEVATION	JOB NUMBER 210074		
GROUNDWATER NGWE	DATUM	PROJECT: Sth Melbourne Gasworks	Proj. Manager DJ
DRILL METHOD TP	DATE 19/01/2011		

STRATIGRAPHY	GRAPHIC LOG	Depth metres	SAMPLES					PID		pH		Odour	Comments
			Disturbed	Undisturbed	Lost	Duplicate	Moisture Content	Background	Reading	pH - soil	pH - water		
FILL Dark greyish brown sandy LOAM with minor light cream coloured sand				■				M	15	7.5-8		Normal earthy odour	Patchy grass cover
----- Fine, uniform cream coloured SAND		-0.2											
Dark brown, silty SAND with angular basalt and gravel													
----- Clayey, sandy LOAM with red brick fragments		-0.4											
Yellowish brown SAND with clusters of yellow clay. Large lenses of stiff, mottled orange/brown sandy CLAY inclusions				■		X			23.2	8.5-9		Normal clay odour	Dup3 & Split3 sampled @ 0.5-0.6 mBGL
----- Loose, dark brown/black moderately coarse SAND with high ash and coke content		-0.8		■				M	108	6.5*		Strong PAH odour	Concrete footing @ 0.8 mBGL, moved pit slightly to one side
		-1.0											* pH ranged from 6.5 to higher values
		-1.2											large steel/iron pipe @ 0.9 mBGL
NATURAL Soft, fine, light grey SAND with some yellow clayey sand and trace black staining												Slight PAH odour	
----- Gradual change to orange/yellow fine to very fine SAND		-1.4											
(Port Melbourne Sands)		-1.6											
		-1.8		■					7.9	8			EOH @ 1.8 mBGL
		-2.0											
		-2.2											
		-2.4											
		-2.6											
		-2.8											
		-3.0											

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Geological Borelog



LOCATION Graham Street, Albert Park		Borehole Log: TP15	Logged by VR
SURFACE ELEVATION	JOB NUMBER 210074		
GROUNDWATER NGWE	DATUM	PROJECT: Sth Melbourne Gasworks	Proj. Manager DJ
DRILL METHOD TP	DATE 19/01/2011		

STRATIGRAPHY	GRAPHIC LOG	Depth metres	SAMPLES				Moisture Content	PID		pH		Odour	Comments
			Disturbed	Undisturbed	Lost	Duplicate		Background	Reading	pH - soil	pH - water		
FILL Brown, sandy LOAM				█						5		Note: PID re-calibrated	
Brown, clayey, loamy SAND with clusters of dark yellow clay		-0.2											
		-0.4											
Stiff, low plasticity yellow/orange sandy CLAY with light grey and red mottles. Coarse well rounded sand. (reworked Brighton group)		-0.6		█				2.1		6			
With some coke and clinker inclusions		-0.8											
Dark grey (stained), coarse SAND with high shell content, some black ash. (reworked Port Melbourne sands)		-1.0		█		M		1.1		8	'Cresote' PAH odour	Agricultural pipe @ 0.9 mBGL	
Loose, coarse SAND with a high content of ash and coke (generally <50mm)		-1.2											
		-1.4											
		-1.6											
		-1.8											
		-2.0											
		-2.2											
		-2.4		█		M		0.8		4.5		EOH @ 2.5 mBGL	
NATURAL Pale grey, poorly sorted, coarse SAND with some dark yellow clay nodules and natural organic matter		-2.6											
		-2.8											
		-3.0											

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Geological Borelog



LOCATION Graham St, Albert Park		Borehole Log: TP16	Logged by JI
SURFACE ELEVATION	JOB NUMBER 210074		
GROUNDWATER	DATUM	PROJECT: Sth Melbourne Gasworks	Proj. Manager DJ
DRILL METHOD TP	DATE 19/01/2011		

STRATIGRAPHY	GRAPHIC LOG	Depth metres	SAMPLES				Moisture Content	PID		pH		Odour	Comments
			Disturbed	Undisturbed	Lost	Duplicate		Background	Reading	pH - soil	pH - water		
FILL Dark brown, clayey sandy LOAM		0.2	█				D M	1.0	5.5		Earthy odour		
Mottled orange/red/brown sandy CLAY with brick, fill, coke and ash (50%)		0.4	█				M	2.4	8		No odour		
Loose, black ASH with slag		1.0	█				D	1.6	9		Slight PAH odour		
Black ash with some grey sand		1.8					M/W W				Slight PAH odour	Perched groundwater in this layer	
NATURAL Light brownish grey, sandy CLAY		2.0	█				M/W	1.5	4.5			EOH @ 2.2 mBGL	
		2.2											
		2.4											
		2.6											
		2.8											
		3.0											

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Geological Borelog



LOCATION Graham St, Albert Park		Borehole Log: TP17	Logged by DJ
SURFACE ELEVATION	JOB NUMBER 210074		
GROUNDWATER NGWE	DATUM	PROJECT: Sth Melbourne Gasworks	Proj. Manager DJ
DRILL METHOD TP	DATE 20//01/2011		

STRATIGRAPHY	GRAPHIC LOG	Depth metres	SAMPLES				Moisture Content	PID		pH		Odour	Comments
			Disturbed	Undisturbed	Lost	Duplicate		Background	Reading	pH - soil	pH - water		
FILL Loose, brown, sandy LOAM (topsoil)		0.0		█		X	D		11	6.5	No odour throughout	Dup4 & Split4 sampled @ 0.0-0.1 mBGL	
Firm, dark brown CLAY with brick, coke and ash inclusions		0.2		█			D			6			
Ash and coke layer		0.4											
		0.6											
		0.8											
Firm, brown, stiff CLAY with brick, ash, coke and slag inclusions.		1.0		█			D		9	6.5			
NATURAL Loose, light brown SAND with minor orange colouration (Port Melbourne sand)		1.2									Storm water pipe encountered, possible historic infrastructure		
		1.4											
		1.6											
		1.8											
		2.0											
	2.2		█			D		9	4.5	EOH @ 2.3 mBGL			
	2.4												
	2.6												
	2.8												
	3.0												

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Geological Borelog



LOCATION Graham St, Albert Park		Borehole Log: TP18	Logged by DJ
SURFACE ELEVATION	JOB NUMBER 210074		
GROUNDWATER NGWE	DATUM	PROJECT: Sth Melbourne Gasworks	Proj. Manager DJ
DRILL METHOD TP	DATE 20/01/2011		

STRATIGRAPHY	GRAPHIC LOG	Depth metres	SAMPLES				Moisture Content	PID		pH		Odour	Comments
			Disturbed	Undisturbed	Lost	Duplicate		Background	Reading	pH - soil	pH - water		
FILL Brown, sandy LOAM topsoil		0.0		█				8.0	6.5		No odour throughout		
Dark brown CLAY with rootlets, ash, coke and brick inclusions		0.2		█					7.5				
Minor spent oxides (blue)		0.4											
Loose SAND with gasworks rubble/waste: bricks, spent oxides, ash, coke and slag		0.8		█				12.0	6				
NATURAL Loose, light brown SAND with minor orange colouration (Port Melbourne sand)		2.0									Couldn't get clean sample EOH @ 2.5 mBGL		
		2.2											
		2.4											
		2.6											
		2.8											
		3.0											

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Geological Borelog



LOCATION Graham St, Albert Park		Borehole Log: TP19	Logged by DJ
SURFACE ELEVATION	JOB NUMBER 210074		
GROUNDWATER NGWE	DATUM	PROJECT: Sth Melbourne Gasworks	Proj. Manager DJ
DRILL METHOD TP	DATE 21/01/2011		

STRATIGRAPHY	GRAPHIC LOG	Depth metres	SAMPLES					PID		pH		Odour	Comments
			Disturbed	Undisturbed	Lost	Duplicate	Moisture Content	Background	Reading	pH - soil	pH - water		
FILL Chipbark		0.0		■				1.9	7		No odour		
Brown, sandy LOAM topsoil		0.2											
Dark brown CLAY with high brick content, minor ash and coke		0.4		■				10	7				
Coke, ash and slag (separate layer)		0.6		■					5.5		Minor PAH odour	EOH @ 0.6 mBGL, refusal on concrete slab	
		0.8											
		1.0											
		1.2											
		1.4											
		1.6											
		1.8											
		2.0											
		2.2											
		2.4											
		2.6											
		2.8											
		3.0											

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Geological Borelog



LOCATION Graham St, Albert Park		Borehole Log: TP20	Logged by DJ
SURFACE ELEVATION	JOB NUMBER 210074		
GROUNDWATER NGWE	DATUM	PROJECT: Sth Melbourne Gasworks	Proj. Manager DJ
DRILL METHOD TP	DATE 20/01/2011		

STRATIGRAPHY	GRAPHIC LOG	Depth metres	SAMPLES				Moisture Content	PID		pH		Odour	Comments
			Disturbed	Undisturbed	Lost	Duplicate		Background	Reading	pH - soil	pH - water		
FILL Chipbark Brown, sandy LOAM topsoil Dark brown CLAY with high brick content, minor coke and ash Black coke, ash and slag (distinct layer) Pale blue spent oxides Ash, fly ash, charcoal, and gasworks rubble/waste (distinct layer)		0.2		█			D		7.5		No odour		
		0.4		█			D	0.6	7.5				
		0.6		█			D	2	4.5		No odour		
		0.8		█			D	2.2	4.5		Minor PAH odour		
		1.0		█									
NATURAL Orange/yellow sandy CLAY (Brighton group sediments)		2.0		█			D	1.5	4		No odour	EOH @ 2.2 mBGL	
		2.2											
		2.4											
		2.6											
		2.8											
		3.0											

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Geological Borelog



LOCATION Graham Street, Albert Park		Borehole Log: TP21	Logged by DJ
SURFACE ELEVATION	JOB NUMBER 210074		
GROUNDWATER NGWE	DATUM	PROJECT: Sth Melbourne Gasworks	Proj. Manager DJ
DRILL METHOD TP	DATE 20/01/2011		

STRATIGRAPHY	GRAPHIC LOG	Depth metres	SAMPLES				Moisture Content	PID		pH		Odour	Comments
			Disturbed	Undisturbed	Lost	Duplicate		Background	Reading	pH - soil	pH - water		
FILL Dark brown, silty LOAM (topsoil) with rootlets		0.0 - 0.2		█			M	0.4	7.5		No odour		
Dark brown CLAY with coke and ash		0.4 - 0.6		█				0.4	8				
		0.6 - 0.8		█				0.7	8				
ASPHALT		0.8 - 1.0									PAH odour	EOH @ 1.1 mBGL Refusal on building footings/asphalt	
		1.0 - 1.2											
		1.2 - 1.4											
		1.4 - 1.6											
		1.6 - 1.8											
		1.8 - 2.0											
		2.0 - 2.2											
		2.2 - 2.4											
		2.4 - 2.6											
		2.6 - 2.8											
		2.8 - 3.0											

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Geological Borelog



LOCATION Graham Street, Albert Park		Borehole Log: TP22	Logged by DJ
SURFACE ELEVATION	JOB NUMBER 210074		
GROUNDWATER NGWE	DATUM	PROJECT: Sth Melbourne Gasworks	Proj. Manager DJ
DRILL METHOD TP	DATE 20/01/2011		

STRATIGRAPHY	GRAPHIC LOG	Depth metres	SAMPLES				Moisture Content	PID		pH		Odour	Comments
			Disturbed	Undisturbed	Lost	Duplicate		Background	Reading	pH - soil	pH - water		
FILL Dark brown, silty LOAM (topsoil), with rootlets		0.0		█			D	2.4	6.5		No odour		
Firm, brown CLAY with coke, ash and brick		0.2											
Orange/yellow sandy CLAY (reworked Brighton Group Sediments)		0.4		█			M1	2.2	7.5				
SAND with coke, ash, slag and gasworks waste		0.6											
		0.8		█			D	2.1	8.5		Minor PAH odour		
Bricks, increase in coke content		1.0											
		1.2											
Becoming lighter in colour, increase in ash content		1.4											
		1.6											
		1.8											
	2.0												
	2.2										No odour		
NATURAL Orange/yellow, sandy CLAY (Brighton Group Sediments)		2.4		█		X	M1	3.1				Dup5 & Split5 sampled @ 2.4-2.5 mBGL	
		2.6										EOH @ 2.5 mBGL	
		2.8											
	3.0												

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Geological Borelog



LOCATION Graham St, Albert Park		Borehole Log: TP23	Logged by DJ
SURFACE ELEVATION	JOB NUMBER 210074		
GROUNDWATER NGWE	DATUM	PROJECT: Sth Melbourne Gasworks	Proj. Manager DJ
DRILL METHOD TP	DATE 20/01/2011		

STRATIGRAPHY	GRAPHIC LOG	Depth metres	SAMPLES				Moisture Content	PID		pH		Odour	Comments	
			Disturbed	Undisturbed	Lost	Duplicate		Background	Reading	pH - soil	pH - water			
FILL Crushed rock Brown, silty SAND with some brown clay nodules, brick, coke, fly ash, slag and concrete		0.0		█			D			7.5-8		No odour		
		0.2												
		0.4		█			D			8		Mild PAH odour		
		0.6												
		0.8												
		1.0		█			D			8.5				
		1.2												
		1.4												
		1.6												
		1.8												
Light grey Ash		2.0											EOH @ 2.9 mBGL	
		2.2												
		2.4												
		2.6												
		2.8												
		3.0												

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Geological Borelog



LOCATION Graham St, Albert Park		Borehole Log: TP24	Logged by DJ
SURFACE ELEVATION	JOB NUMBER 210074		
GROUNDWATER NGWE	DATUM	PROJECT: Sth Melbourne Gasworks	Proj. Manager DJ
DRILL METHOD TP	DATE 20/01/2011		

STRATIGRAPHY	GRAPHIC LOG	Depth metres	SAMPLES				Moisture Content	PID		pH		Odour	Comments
			Disturbed	Undisturbed	Lost	Duplicate		Background	Reading	pH - soil	pH - water		
FILL Chipbark Firm, dark brown clayey LOAM		0.0											
		0.2	■				D		6.5		No odour		
Sandy CLAY (reworked Brighton Group Sediments)		0.4											
		0.6	■				D		8		No odour		
Ash, coke and slag (distinct layer)		0.8											
		1.2	■				D	2.6	7.5-8		PAH odour		
NATURAL Port Melbourne Sands (Possibly Brighton Group Sediments)		1.6											
		2.0	■				D				No odour	EOH @ 2.2 mBGL	
		2.2											
		2.4											
		2.6											
		2.8											
		3.0											

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Geological Borelog



LOCATION Graham St, Albert Park		Borehole Log: TP25	Logged by DJ
SURFACE ELEVATION	JOB NUMBER 210074		
GROUNDWATER NGWE	DATUM	PROJECT: Sth Melbourne Gasworks	Proj. Manager DJ
DRILL METHOD TP	DATE 20/01/2011		

STRATIGRAPHY	GRAPHIC LOG	Depth metres	SAMPLES					PID		pH		Odour	Comments
			Disturbed	Undisturbed	Lost	Duplicate	Moisture Content	Background	Reading	pH - soil	pH - water		
FILL Chipbark Dark brown, silty sandy LOAM (topsoil)		0.2		█		X	D			8			Dup6 & Split6 sampled @ 0.1-0.2 mBGL
Coke and ash (distinct layer)		0.4											
Sandy CLAY with coke, brick and ash inclusions (reworked natural Brighton Group Sediments)		0.6		█			D			7-8			
Ash and coke (distinct layer)		1.0											
NATURAL Light brown SAND Sandy CLAY (Brighton Group Sediments)		1.2		█			D			6			
		1.4									No odour		EOH @ 1.6 mBGL
		1.6											
		1.8											
		2.0											
		2.2											
		2.4											
		2.6											
		2.8											
		3.0											

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Geological Borelog



LOCATION Graham St, Albert Park		Borehole Log: TP26	Logged by DJ
SURFACE ELEVATION	JOB NUMBER 210074		
GROUNDWATER	DATUM	PROJECT: Sth Melbourne Gasworks	Proj. Manager DJ
DRILL METHOD TP	DATE 20/01/2011		

STRATIGRAPHY	GRAPHIC LOG	Depth metres	SAMPLES				Moisture Content	PID		pH		Odour	Comments
			Disturbed	Undisturbed	Lost	Duplicate		Background	Reading	pH - soil	pH - water		
FILL Chipbark Light brown crushed rock		0.0 - 0.2	█				D			8		PID not reading correctly	
Sandy CLAY with high coke, ash and slag content and minor liquid tar Large pieces of coke fragments		0.2 - 0.6		█			M1			8			
NATURAL Grey sandy CLAY with yellow mottles (Brighton Group Sediments), visible tar impact decreasing with depth		0.6 - 2.6									Highly odorous		
		1.8 - 2.0		█		X	M1			8		Dup7 & Split7 sampled @ 1.7-1.8 mBGL Highly impacted material	
		2.6		█			M1			6.5		EOH @ 2.6 mBGL	
		2.8											
		3.0											

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