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CLIENT	DMR	LOGGED BY	ACS
PROJECT	IPSWICH MOTORWAY UPGRADE - WACOL TO DARRA	CHECKED BY	GWG
CONTRACTOR	Terratest	DRILLED DATE	03-Aug-07
DRILL MODEL	Edson 3000	GROUND LEVEL	RL 22.42m
DRILLER	Brent Ormsby	LOCATION	32594 E 150480 N
		ELEVATION DATUM	Australian Height Datum
		COORDINATE SYSTEM	Local Grid

DRILLING		STRATA			MATERIAL DESCRIPTION		CONDITION		OBSERVATION								
SAMPLE, TEST, BIT, SUPPORT, ETC.	R.L.	DEPTH	GROUP SYMBOL	LEGEND	SOIL TYPE Plasticity / Grain Size, Colour, Minor Components	WATER / MOISTURE	CONSISTENCY								SOIL ORIGIN, STRUCTURE, ETC.		
	m	m					COHESIVE				NON COHESIVE						
							VS	SL	ST	VST	H	VL	LD	VD			
<div>SPT at 1.69m N 6;30/75</div> <div>SPT at 3.07m N 30/140s</div> <div>SPT at 4.8m N 6;9,13</div> <div>SPT at 6.3m N 6;9,9</div> <div>SPT at 7.8m N 10;20,15</div> <div>SPT at 9.3m N 9;14,14</div>	22.39	0.03	GM		ASPHALT.	D											FILL
	22.12	0.30	CL		Silty Sandy GRAVEL (GM) fine to medium grained, brown.	D											FILL
	21.62	0.80	SW		Gravelly Sandy CLAY (CL) firm, brown, sub-rounded to rounded, with sand fine to coarse grained with a trace of gravel fine to coarse grained.												FILL
	21.12	1.30			SAND and GRAVEL (SW) loose to medium dense, fine to coarse grained.												FILL
	20.82	1.60	CI		Sandy CLAY stiff, brown, sand fine to coarse grained, with gravel fine grained sub-rounded.	D											COHES
		2			CLAY (CI) hard, grey mottled light brown, with a trace of sand fine to medium grained.	D											COHES
				 2.30 with sand medium to coarse grained, hard, grey and brown												COHES
		3															COHES
	19.32	3.10	CL		Sandy CLAY (CL) hard, grey, sand fine to medium grained, with a trace of sand coarse grained angular.												COHES
		4			 4.10 grey and brown sand, medium to coarse grained											COHES
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NOTES

Hole Diameter 100mm to 24.80m depth. (Solid Flight Augering to 6m. HW casing to 6.25m. Washboring with 100mm diameter tri-blade bit from 6m to 22.9m, 75mm diameter tri-blade bit from 23.15m to 24.5m. NMLC Coring from 13.8m to 23.15m. No free groundwater observed during drilling.)

JOB

86015

CLIENT	DMR	LOGGED BY	ACS
PROJECT	IPSWICH MOTORWAY UPGRADE - WACOL TO DARRA	CHECKED BY	GWB
		DRILLED DATE	03-Aug-07
CONTRACTOR	Terratest	ANGLE	Vertical
DRILL MODEL	Edson 3000	BEARING	-
DRILLER	Brent Ormsby	HOLE DIAMETER	100mm ()
		GROUND LEVEL	RL 22.42m
		LOCATION	32594 E 150480 N
		ELEVATION DATUM	Australian Height Datum
		COORDINATE SYSTEM	Local Grid

DRILLING		STRATA			MATERIAL DESCRIPTION		CONDITION		OBSERVATION								
SAMPLE, TEST, BIT, SUPPORT, ETC.	R.L.	DEPTH	GROUP SYMBOL	LEGEND	SOIL TYPE Plasticity / Grain Size, Colour, Minor Components	WATER / MOISTURE	CONSISTENCY										SOIL ORIGIN, STRUCTURE, ETC.
	m	m					COHESIVE					NON COHESIVE					
							VS	SL	ST	VST	H	VL	LD	MD	VD		
← SPT at 10.8m N 8;16,18	11.92	10.50	SP		Gravelly Clayey SAND (SP) medium dense, coarse grained, grey-white, gravel fine grained sub-rounded. (continued)												NONCO
			CH		CLAY (CH) very stiff, grey-brown.												COHES
← SPT at 12.3m N 7;14,15		11															
		12															
← SPT at 13.73m N 16;30/150		13		 12.30 ironstone lens 20 Deg, UN, Ro4, S, 10mm 12.40 ironstone lens 20 Deg, UN, Ro4, S, 10mm												
	8.92	13.50	CI		CLAY (CI) hard, grey-brown.												
	8.62	13.80			CORE LOSS: 0.2m (trace of sand, coarse grained in drilling mud return).												COHES
	8.42	14.00	CH		CLAY (CH) hard, brown to light brown, (clay extremely disturbed by coring process to degree such that core did not exhibit similar soil consistency as indicated by SPT results).												
		15															
		16															
← SPT at 16.73m N 16;30/150	6.17	16.25	CL		CLAY (CL) hard, brown with silt.												
	5.95	16.47			SANDSTONE, very fine grained, brown.												SNDSTN
	5.61	16.81			CORE LOSS: 1.39m (fines and trace of sand, fine grained in drilling mud return).												MUD
		17															
		18															
	4.22	18.20			MUDSTONE, massive, brown with properties of clay (CH) hard.												
	3.92	18.50			SANDSTONE, fine grained, massive, brown, with bands of MUDSTONE (with properties of hard silty clay (CL)).												
	3.50	18.92			SANDSTONE, fine to medium grained, brown light grey, with properties of a very dense, sand, with clay.												SNDSTN
← SPT at 19.7m N 28;30/100	3.10	19.32	SP		SAND (SP) very dense, fine to coarse grained, light brown, white-grey, with clay and a trace of gravel fine grained angular.												SNDGRV
	2.67	19.75			CORE LOSS: 1.97m (sand, fine to coarse grained in drilling mud return).												

NOTES

Hole Diameter 100mm to 24.80m depth. (Solid Flight Augering to 6m. HW casing to 6.25m. Washboring with 100mm diameter tri-blade bit from 6m to 22.9m, 75mm diameter tri-blade bit from 23.15m to 24.5m. NMLC Coring from 13.8m to 23.15m. No free groundwater observed during drilling.)

JOB

86015

GROUND LEVEL LOCATION	RL 22.42m 32594 E 150480 N
ELEVATION DATUM	Australian Height Datum
COORDINATE SYSTEM	Local Grid

SPT at 24.73m
N 18:30/150

86015

BOREHOLE PHOTOGRAPHS



PROJECT:	Ipswich Motorway and Centenary Highway Upgrade	CLIENT:	Department of Main Roads	PROJECT NUMBER:	86015
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Hole: BH 235



Depth: 13.8m - 19m



Depth: 19m - 22.9m