

Appendix A
Groundwater Database Information

GDB CODES

CODE	DESCRIPTION	CODE	DESCRIPTION
	BORE AUTHORITY		SCREEN MATERIALS
NKN	Not Known	NKN	Not Known
RWC	Rural Water Corporation	SSW	Wire Wrapped Stainless Steel
D MID	Depart Manufacturing and Industry Development	MSS	Slotted Mild Steel
CNR	Conservation and Natural Resources	SSL	Slotted Steel
SEC	State Electricity Commission	SGI	Slotted Galvanised Iron
GAS	Gas and Fuel Corporation	BRM	Bronze Mesh
LAND	Private Landholder's Bore	PSL	Slotted PVC
MUN	Municipal/Shire	PSC	Screened PVC
SADM	SA Department of Mines and Energy	CBM	Copper Brass Mesh
SAEW	SA Engineering and Water Supply Department	WWB	Wire Wrapped Bronze
NGS	NSW Geological Survey	WCB	Wire Wrapped Copper/Brass
NDW	NSW Department of Water Resources	STM	Steel Mesh
BMR	Bureau of Mineral Resources	SLB	Slotted Bronz
EXP	Exploration Company Minerals/Petroleum		LITHOLOGY
EPA	Environment Protection Authority	AGGL	Agglomerate
MWC	Melbourne Water Corporation	ARKO	Arkose
GOVT	Government (General)	BASA	Basalt
AGRI	Department of Agriculture	BREC	Breccia
WIM	Wimmera Industrial Minerals	CAAR	Calcarenite
VIC	VicRoads	CACR	Calcrete
	BORE TYPE	CALU	Calcilutite
NKN	Not Known	CARU	Calcirudite
GW	Groundwater	CHER	Chert
SG	Stratigraphic	CLAY	Clay
GI	General Geological Investigation	CLST	Claystone
ME	Mineral Investigation	COAL	Coal
PE	Petroleum Exploration	CPMG	Conglomerate
CO	Coal	CPSI	Coal Shale
EX	Extractive/Quarrying	DACI	Dacite
EG	Engineering Geology	DIOR	Diorite
	BORE USE	DOLE	Dolerite
NKN	Not Known	FAUL	Fault
DM	Domestic	FAZN	Fault Zone
ST	Stock	FECR	Ferricrete
DS	Stock and Domestic	FEST	Ironstone
IR	Irrigation	GNEI	Gneiss
UR	Urban	GRAN	Granite
MW	Mineral Water	GRAV	Gravel
DW	Dewatering	GRAW	Greywacke
GE	Geothermal	GRDT	Granodiorite
IN	Industrial	GREE	Greenstone
AI	Agro Industries	GYPG	Gypsum
AQ	Aquaculture	HORN	Hornfels
DY	Dairy	IGNE	Igneous
CO	Commercial	LATE	Laterite
CD	Communal Domestic	LIGN	Lignite
MI	Miscellaneous	LMST	Limestone
DI	Disposal	LOST	Lost Samples
DR	Drought Relief	MARL	Marl
IV	Groundwater Investigation	META	Metamorphic
NU	Not Used - Capped	MUST	Mudstone
OB	Observation	NKN	Not Known
RE	Groundwater Recharge	OO LI	Oolite
SEC	SEC Bores (Use unidentified)	PHYL	Phyllite
NG	Non Groundwater	QTZT	Quartzite
	DRILL METHOD	RHYD	Rhyodacite
NKN	Not Known	RHYL	Rhyolite
ROT	Rotary	SAND	Sand
AGM	Mechanical Auger	SAST	Sandstone
AGH	Hand Auger	SCHI	Schist
DRV	Driven	SCOR	Scria
JET	Jet Cable Tool, Percussion	SEDI	Sedimentary
CBT	Cable Tool, Percussion	SHAL	Shale
DHH	Down Hole Hammer	SILC	Silcrete
DDH	Diamond Core	SILT	Silt
DRL	Drag-Line	SIST	Siltstone
ROA	Rotary Air	SLAT	Slate
ROM	Rotary Mud	SOIL	Soil
		TALC	Talc/Soapstone
		TILL	Illite
		TRCH	Trachyte
		TUFF	Tuff
			CHEMISTRY PARAMETER

EXTRACTION METHOD		CHEMISTRY PARAMETER	
NKN	Not Known	ALK	Total Alkalinity, as CaCO ₃
AIR	Airlifted	CA	Calcium, as Ca
BAL	Bailed	CL	Chloride, as Cl
PUM	Pumped	CO ₃	Carbonate, as CO ₃
FLO	Flowing	EC	EC 25C, micro S/cm
JET	Jetted	FE	Iron, Total as Fe
SUR	Surged	HARD	Hardness, as CaCO ₃
EXP	Explosive	HC03	Bicarbonate, as HCO ₃
WAD	Water Added	K	Potassium, as K
NOT	Not Tested	MG	Magnesium, as Mg
CASING MATERIAL		NA	Sodium, as Na
NKN	Not Known	NO ₃	Nitrate, as N
SST	Stainless Steel	PEST	Chlorinated Pesticides (Screen)
MST	Mild Steel	PH	pH, units
STL	Steel	SO ₄	Sulphate, as SO ₄
CST	Carbon Steel	TSS	Total Soluble Salts (Summation)
GIR	Galvanised Iron	ORG	Organics
BRO	Bronze	PES	Pesticides
COP	Copper	HM	Heavy Metals
FGL	Fibreglass	MIN	Trace Minerals
FRP	Fibreglass Ref Plastic	BAC	Bacteriological
BRA	Brass	ISO	Isotopes
PVC	PVC	NUT	Nutrients
PO6	PVC Class 6	OTHER ABBREVIATIONS	
PO9	PVC Class 9	SWL	Stand Water Level
P12	PVC Class 12	REC	Recovery
P18	PVC Class 18	BCL	Bore Construction Licence

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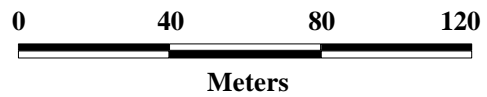
31/15074 - Casey Central - Phase 1 Environmental Site Assessment
 Groundwater Database Search Results

Bore ID	Old Bore ID	Rig Licence Number	Bore Authority	AMG Sheet	AMG Zone	Easting	Northing	Date Drilled	Depth (m)	Reduced Level (nested site)	Bore Type	Use 1	Use 2	Drill Method	Geology Log	Driller Log	Aquifer from (m)	Aquifer to (m)	TDS (mg/L)	Ring	Radius	Distance Units	Area
49702	8007	0	LAND	792114	55	350600	5785200	19591231	80.7	0	GW	NK		DHH	N	N	0	0	2686	1	1	kilometers	19.223f
49703	8008	0	LAND	792114	55	350100	5785900	19651231	91.4	0	GW	IR		DHH	N	N	0	0	1961	1	1	kilometers	19.223f
49708	8013	0	NKN	792114	55	353520	5784520		10.9	0	GW	DM	ST	NKN	N	N	0	0	0	1	1	kilometers	19.223f
49709	10001	840	LAND	792114	55	350460	5785060	19711224	39.6	0	GW	NK		CBT	N	Y	0	0	2624	1	1	kilometers	19.223f
49711	10003	5800	LAND	792114	55	353640	5784520	19750201	21.94	0	GW	DM	ST	CBT	N	Y	0	21.9	228	1	1	kilometers	19.223f
49712	10004	4494	LAND	792114	55	350562	5785300	19750228	60.96	0	GW	NK		CBT	N	Y	0	0	3183	1	1	kilometers	19.223f
49714	10006	7304	LAND	792114	55	353500	5784500	19760224	33.5	0	GW	IR		CBT	N	Y	0	0	147	1	1	kilometers	19.223f
49716	10008	8910	LAND	792114	55	353450	5784625	19770414	25.29	0	GW	IR		CBT	N	Y	18	25.3	269	1	1	kilometers	19.223f
49718	10011	11252	LAND	792114	55	353760	5784500	19790210	24.38	0	GW	DM	ST	CBT	N	Y	11	24.4	378	1	1	kilometers	19.223f
49721	10014	13305	LAND	792114	55	350820	5785060	19800209	38.5	0	GW	DM	ST	CBT	N	Y	0	0	0	1	1	kilometers	19.223f
49727	10020	18652	LAND	792114	55	353840	5785080	19831231	28.6	0	GW	DM	ST	CBT	N	Y	0	0	0	1	1	kilometers	19.223f
49728	10021	30115	LAND	792114	55	353000	5784600	19870228	51.8	0	GW	IR		DHH	N	Y	0	0	0	1	1	kilometers	19.223f
49733	10026	32029	LAND	792114	55	353850	5785050	19880503	61.5	0	GW	ST		CBT	N	Y	0	0	1356.5	1	1	kilometers	19.223f
49735	15002	35322	LAND	792114	55	351800	5784900	19900216	35.6	0	GW	NK		DHH	N	Y	0	0	0	1	1	kilometers	19.223f
49736	15003	35322	LAND	792114	55	351800	5784900	19900222	42.6	0	GW	IR		DHH	N	Y	0	0	0	1	1	kilometers	19.223f
57176	53	10	DEM	792114	55	350350	5783300	19730901	49.68	48.86	GW	OB	SO	CBT	N	N	0	0	1050.5	1	1	kilometers	19.223f
57212	8031	0	LAND	792114	55	350573	5783946	19681029	44	0	GW	DM	ST	CBT	N	N	0	0	0	1	1	kilometers	19.223f
57224	8043	0	LAND	792114	55	352771	5784576	19701231	79.2	0	GW	NK		CBT	N	N	0	0	1410	1	1	kilometers	19.223f
57229	8048	0	LAND	792122	55	350400	5782540	19701231	20.1	0	GW	IR		NKN	N	N	0	0	0	1	1	kilometers	19.223f
57230	8049	0	LAND	792114	55	350337	5784383	19671231	97	0	GW	NK		CBT	N	N	0	0	2680	1	1	kilometers	19.223f
57232	8051	0	LAND	792114	55	349762	5783692	19650606	114	0	GW	NK		NKN	N	N	0	0	0	1	1	kilometers	19.223f
57233	8052	0	LAND	792114	55	350428	5783855	19701231	41	0	GW	ST		NKN	N	N	0	0	0	1	1	kilometers	19.223f
57235	8054	0	LAND	792114	55	352918	5782738	19681231	39.62	0	GW	IR		CBT	N	N	0	0	0	1	1	kilometers	19.223f
57239	8058	0	LAND	792114	55	350377	5782724	19701231	29.26	0	GW	IR		CBT	N	N	0	0	0	1	1	kilometers	19.223f
57243	8062	0	LAND	792114	55	350376	5783348	19681231	41	0	GW	DM	ST	CBT	N	N	0	0	0	1	1	kilometers	19.223f
57244	8063	41108	LAND	792114	55	353577	5784469	19701231	33.53	0	GW	IR		CBT	N	Y	0	0	0	1	1	kilometers	19.223f
57245	8064	0	LAND	792114	55	350077	5783428	19661231	76	0	GW	NK		CBT	N	N	0	0	0	1	1	kilometers	19.223f
57246	8065	0	LAND	792114	55	350160	5783610	19701231	43	0	GW	NK		CBT	N	N	0	0	0	1	1	kilometers	19.223f
57289	8108	0	NKN	792114	55	350646	5783641		21.3	0	GW	ST		NKN	N	N	0	0	0	1	1	kilometers	19.223f
57290	8109	0	NKN	792114	55	351030	5783198		42	0	GW	DM		NKN	N	N	0	0	0	1	1	kilometers	19.223f
57291	8110	0	NKN	792114	55	351114	5783169		40	0	GW	DM		NKN	N	N	0	0	0	1	1	kilometers	19.223f
57293	8112	0	NKN	792114	55	349697	5782934		9	0	GW	ST		NKN	N	N	0	0	0	1	1	kilometers	19.223f
57294	8113	0	NKN	792114	55	349521	5783146		12	0	GW	DM	ST	NKN	N	N	0	0	0	1	1	kilometers	19.223f
57296	8115	0	NKN	792114	55	350219	5782431		18	0	GW	ST		NKN	N	N	0	0	0	1	1	kilometers	19.223f
57297	8116	0	NKN	792114	55	352734	5783604		45.72	0	GW	DM	ST	NKN	N	N	0	0	0	1	1	kilometers	19.223f
57302	8121	0	NKN	792114	55	350413	5782764		16.46	0	GW	DM	ST	NKN	N	N	0	0	0	1	1	kilometers	19.223f
57322	10006	12250	LAND	792114	55	353620	5783160	19791220	18.5	0	GW	DS		CBT	N	Y	0	0	0	1	1	kilometers	19.223f
57362	10046	7654	LAND	792114	55	350573	5784728	19760906	60.96	0	GW	NU		CBT	N	Y	24.4	43.6	2821	1	1	kilometers	19.223f
57371	10055	8679	LAND	792114	55	350509	5783065	19770505	41.5	0	GW	IR		CBT	N	Y	0	0	1139	1	1	kilometers	19.223f
57391	10075	13866	LAND	792114	55	350602	5783874	19801205	46.02	0	GW	DM	ST	IRCBT	N	Y	28.6	43.6	1864	1	1	kilometers	19.223f
57396	10080	14052	LAND	792114	55	349534	5783411	19810205	38.1	0	GW	DM	ST	CBT	N	Y	24.4	38.1	2147	1	1	kilometers	19.223f
57398	10082	12713	LAND	792114	55	350840	5782860	19800604	30.5	0	GW	IR		ROM	N	Y	21.5	26	573	1	1	kilometers	19.223f
57399	10083	14292	LAND	792114	55	350639	5782892	19800611	71.5	0	GW	IR		ROT	N	Y	24	70	571	1	1	kilometers	19.223f
57416	10101	19385	LAND	792114	55	352320	5784638	19830224	60.7	0	GW	IR		ROA	N	Y	0	0	0	1	1	kilometers	19.223f
57433	10118	7880	LAND	792114	55	349530	5783410	19760826	48.77	0	GW	NK		CBT	N	Y	17.4	32.6	1098	1	1	kilometers	19.223f
57471	10156	26498	LAND	792114	55	349480	5783550	19850704	10.67	0	GW	NK		CBT	N	Y	0	0	0	1	1	kilometers	19.223f
57472	10157	26498	LAND	792114	55	349430	5783440	19850724	33.53	0	GW	NK		CBT	N	Y	12.5	29	2541.3	1	1	kilometers	19.223f
57473	10158	27072	LAND	792114	55	349842	5783379	19850610	38.1	0	GW	NK		CBT	N	Y	15	36	2531.9	1	1	kilometers	19.223f
57477	10162	27490	LAND	792114	55	350354	5783986	19851010	45.11	0	GW	NK		CBT	N	Y	0	0	0	1	1	kilometers	19.223f
57478	10163	27070	LAND	792114	55	350380	5783740	19850924	30.48	0	GW	NK		CBT	N	Y	0	0	0	1	1	kilometers	19.223f
57479	10164	27070	LAND	792114	55	350167	5784026	19850627	38.1	0	GW	DM	ST	CBT	N	Y	15.2	38.6	887	1	1	kilometers	19.223f
57502	15008	36980	LAND	792114	55	351160	5783501	19901007	47	0	GW	DM	ST	IRDHH	N	Y	0	0	0	1	1	kilometers	19.223f
113973	0	39917	NKN	792114	55	353440	5784630	19920731	25	0	GW	IR		ROA	N	Y	0	0	0	1	1	kilometers	19.223f
124479	0	42514	NKN	792114	55	353620	5784460	19950316	27.5	0	GW	IR		ROM	N	Y	0	0	0	1	1	kilometers	19.223f
301761	35	0	DEM	792114	55	350620	5784960	19740510	3.96	0	NK	NG			N	N	0	0	0	1	1	kilometers	19.223f
301762	36	0	DEM	792114	55	350660	5785530	19740510	3.96	0	NK	NG			N	N	0	0	0	1	1	kilometers	19.223f
301764	38	0	DEM	792114	55	351380	5785940	19740510	3.96	0	NK	NG			N	N	0	0	0	1	1	kilometers	19.223f
301765	39	0	DEM	792114	55	351670	5785520	19740510	3.96	0	NK	NG			N	N	0	0	0	1	1	kilometers	19.223f
301780	54	0	DEM	792114	55	354500	5784400	19740511	3.96	0	NK	NG			N	N	0	0	0	1	1	kilometers	19.223f
301851	131	0	DEM	792114	55	352050	5785000	19740705	3.96	0	NK	NG			N	N	0	0	300	1	1	kilometers	19.223f
305318	59	0	DEM	792114	55	353740	5784480	19740704	2.44	0	NK	NG			N	N	0	0	0	1	1	kilometers	19.223f
305319	60	0	DEM	792114	55	353000	5784550	19740704	10.06	0	NK	NG			N	N	0	0	445	1	1	kilometers	19.223f

Legend

- 1,000 to 3,500 (15)
- 500 to 1,000 (3)
- 0 to 500 (6)

1km buffer



DATA SOURCE:

Prepared.	AWE	25/03/04	Workspace	Casey Central - TDS.WOR
Checked.	CH	25/03/04	Location	G:\31\15074\GIS\Workspaces
Approved.	?	17/03/04	Map Grid	AMG66 Zone 55



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Project: Phase 1 ESA Casey Central

TITLE: **Groundwater Bore Use and TDS**

Project No. **31/15074** Date. **25/03/04** Scale: **1:2000** A3 Sh 1 of 1 Rev. 1