

Please refer to Location map (Attachment 1) for DR29499 Dongara Line Bore Details and DR29499-Dongata Line-Water Levels, (see Attachment 2).

Each site has two monitoring bores, except for site DL4, which has one. The shallow monitoring bore is referenced by a suffix of "W" and the deeper monitoring bore by a suffix of "A", except for site DL4 which has a suffix of "B".

#### **Hydrographs for site DL1 (DL1A & DL1W)**

The deep Yarragadee aquifer monitoring bore DL1A is screened from 406 to 412 metres below ground level. Groundwater levels rose by about 5 metres from 1998 to 2003, then fell by about 5 metres from 2003 to 2008 stabilising from 2008 to 2010 at around 19 mAHD and show no long term trend.

The shallow Yarragadee aquifer monitoring bore DL1W is screened from 43 to 49 metres below ground level. Groundwater levels from 1998 to 2010 fluctuate in a range from 0.74 m to 1.16 mAHD and show no long term trend.

#### **Hydrographs for site DL2 (DL2A & DL2W)**

The deep Yarragadee aquifer monitoring bore DL2A is screened from 421 to 427 metres below ground level. Groundwater levels rose 1.1 metre over 4 years from 45.8 mAHD in 1997 to 46.9 mAHD in 2000 at a rate of 0.27 m/year. Groundwater levels then dropped 0.9 metres between 2000 and 2004 from 46.9 to 46 mAHD. Between 2004 and 2010 groundwater levels rose marginally from 46 to 46.5 mAHD.

The shallow Yarragadee aquifer monitoring bore DL2W is screened from 63 to 69 metres below ground level. Groundwater levels rose about 1.5 metres from 51.2 mAHD in 1997 to 52.7 mAHD in 2000 and fell back 0.4 to about 52.3 mAHD in 2001 when monitoring ceased.

#### **Hydrographs for site DL3 (DL3A & DL3W)**

The deep Yarragadee aquifer monitoring bore DL3A is screened from 429 to 435 metres below ground level. Groundwater levels rose 1.1 metres from 75.5 to 76.6 metres below ground level between 1998 and 2004. Monitoring ceased in 2004.

The shallow Yarragadee aquifer monitoring bore DL3W is screened from 103 to 109 metres below ground level. Groundwater levels rose 2.3 metres from 80.3 mAHD in 1998 to 82.6 mAHD in 2010 at an average rate of 1.8 m/yr. The rising trend is probably due to historical land clearing that largely occurred decades ago.

#### **Hydrographs for site DL4 (DL4B)**

The deep Yarragadee aquifer monitoring bore DL4B is screened from 459 to 465 metres below ground level. From 1998 to 2010 groundwater levels have fluctuated in a range of less than 1.5 metres, apart from an unexplained groundwater level drop between 2001 and 2002 of 3.2 metres from 80 to 76.8 mAHD.

There is no shallow bore at this site.

### **Hydrographs for site DL5 (DL5A & DL5W)**

The deep Yarragadee aquifer monitoring bore DL5A is screened from 363 to 369 metres below ground level. From 2006 to 2010 groundwater levels have marginally risen about 0.4 metres from 91 to 91.4 mAHD.

The shallow Parmelia monitoring bore DL5W is screened from 102 to 108 metres below ground level. Groundwater levels have risen 5.1 metres from 223.6 mAHD in 1998 to 228.7 mAHD in 2010 at a rate of about 0.4 m/yr. This rising trend is probably due to historical land clearing that largely occurred decades ago.

Please refer to Attachment 3 which graphically shows the trends in these logs.

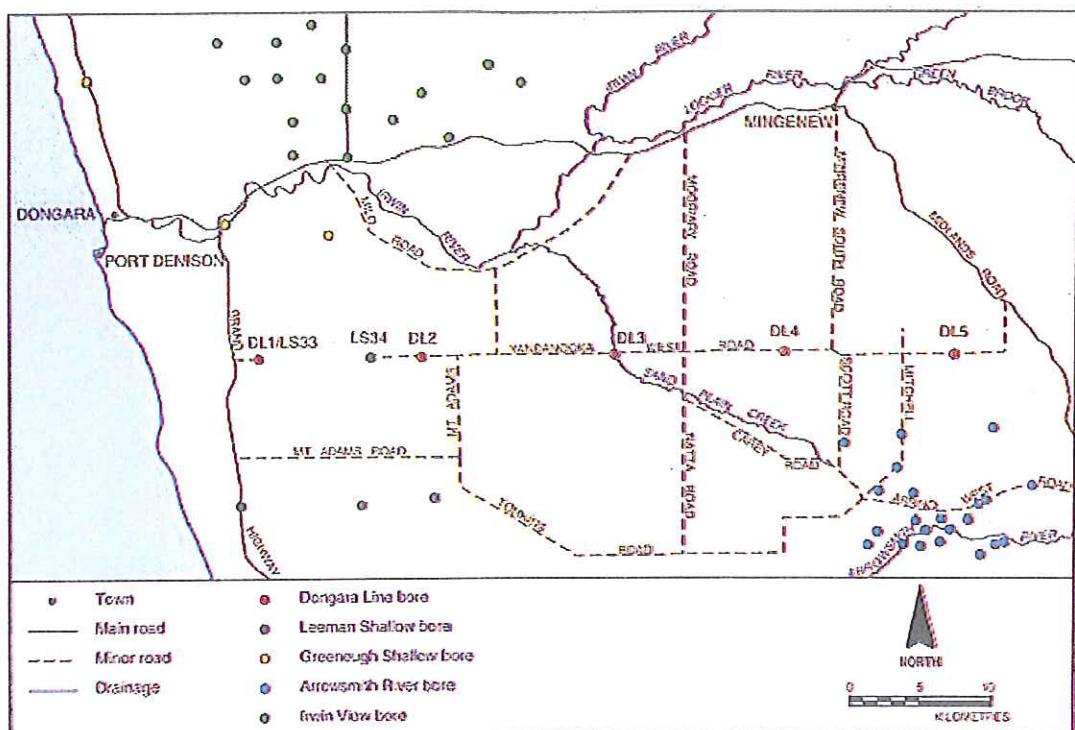
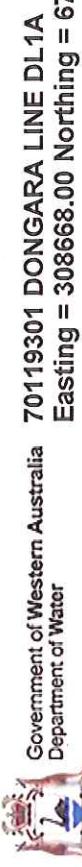
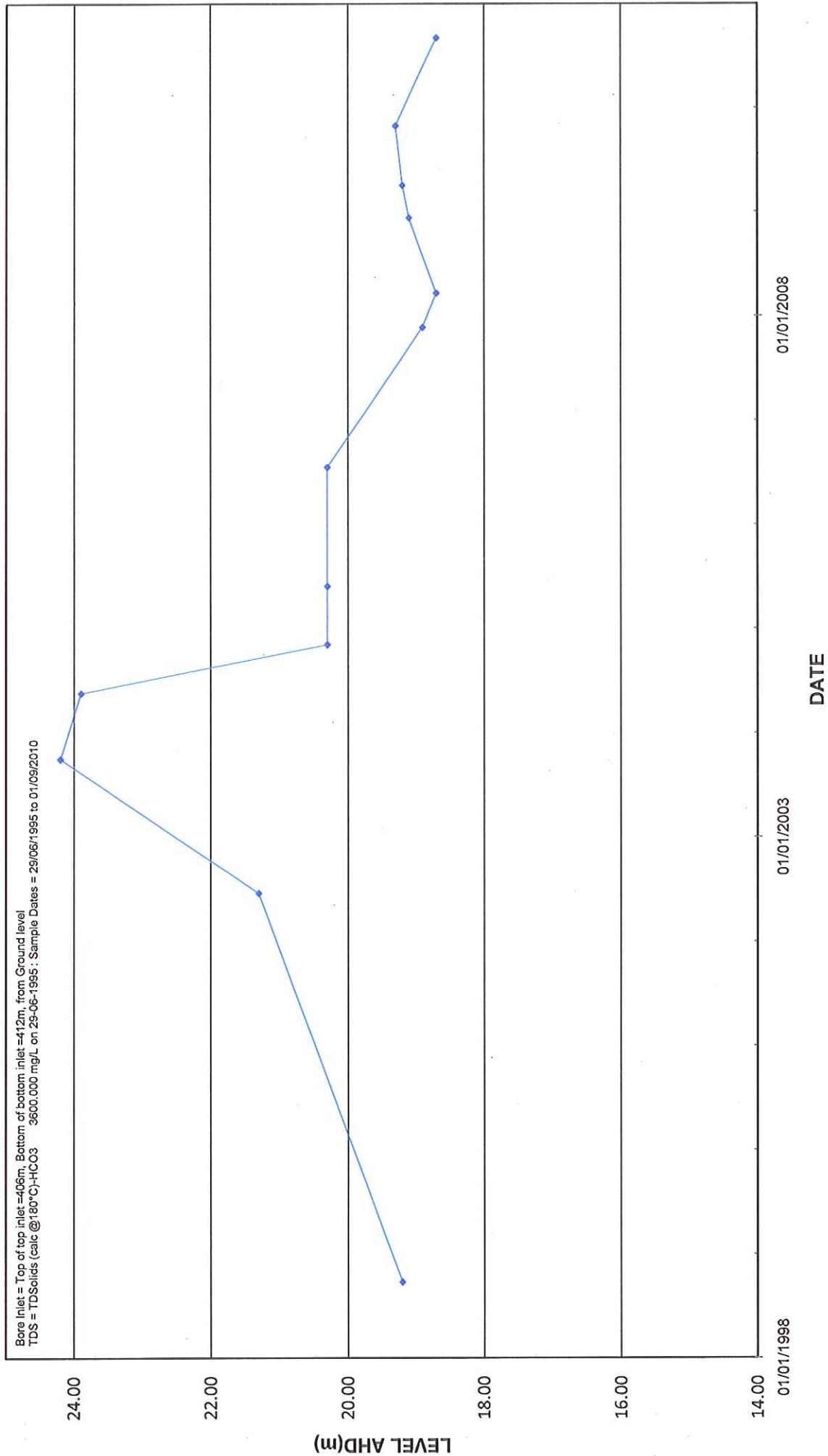


Figure 1. Location map



70119301 DONGARA LINE DL1A  
Easting = 308668.00 Northing = 6752317.00 Zone = 50 TOC = 16.905m AHD WIN SITE ID = 14317734

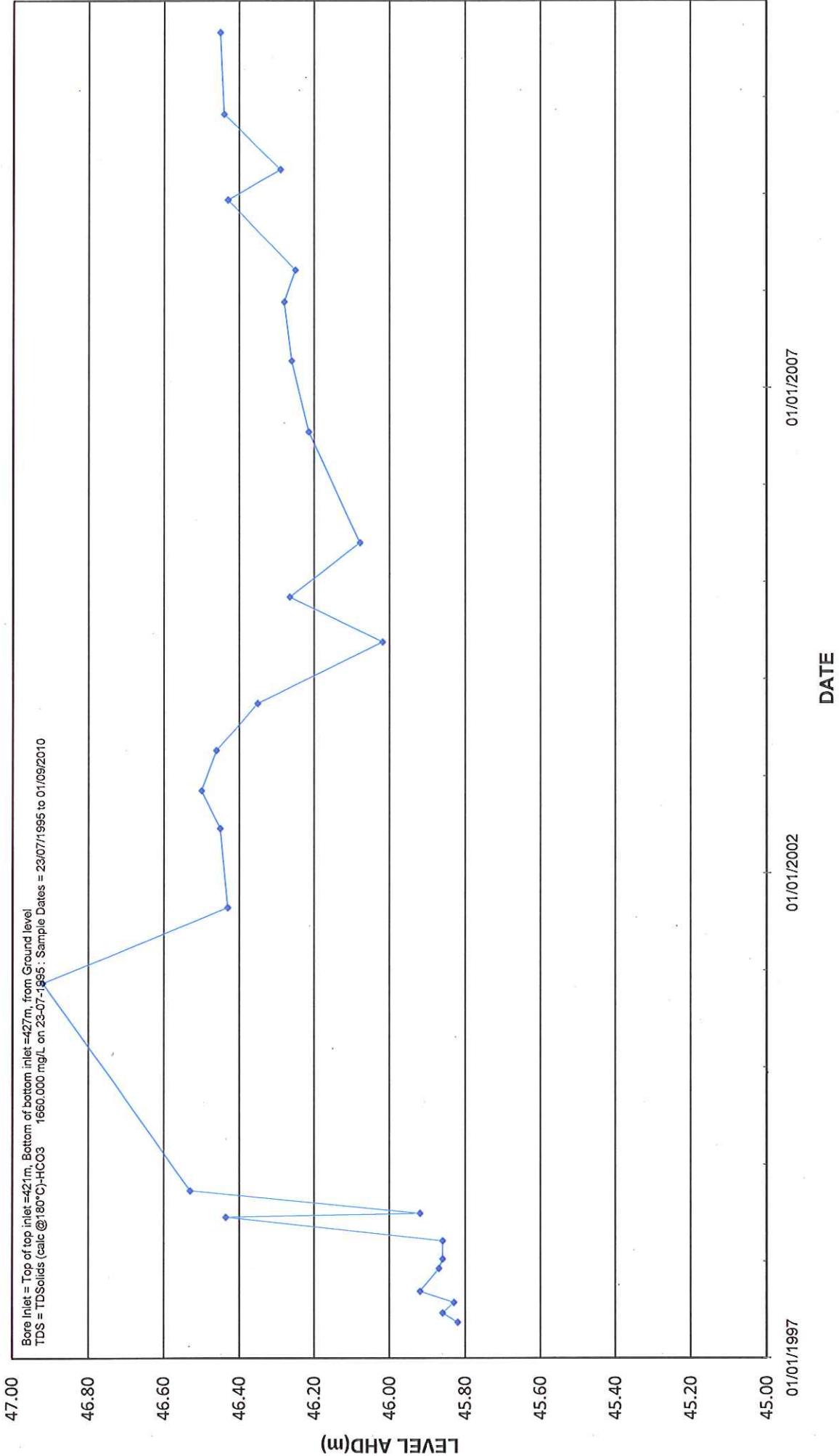


◆ = Good Record    ● = Satisfactory Record    ▲ = Water Level is Above the Datum ■ = Water Level is Below the Reading  
 Datums: AHD = Australian Height Datum. GL = Ground Level. SLE = Standard Level Elevation. 0 = none.  
 References: TOC = Top of case. GL = Ground Level. PM = Permanent Mark. TOVAL = Top of Valve. 0 = none.

WIN SITE ID	AWRC REF	REFERENC E	CONTEXT NAME	NAME	ZONE	EASTING	NORTHING	COLLECTED DATE	READY NG RELIA	CONVERTED LEVEL (mAHD)	UNIT	USED OUTPUT DATUM
14317734	70119301	70119301	DONGARA LINE	DL1A	50	3088668	6752317	09:42:00 24/09/1998	=	19.205	m	AHD
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14317734	70119301	70119301	DONGARA LINE	DL1A	50	3088668	6752317	10:11:00 01/10/2003	=	24.205	m	AHD
14317734	70119301	70119301	DONGARA LINE	DL1A	50	3088668	6752317	10:14:00 18/05/2004	=	23.905	m	AHD
14317734	70119301	70119301	DONGARA LINE	DL1A	50	3088668	6752317	09:17:00 04/11/2004	=	20.305	m	AHD
14317734	70119301	70119301	DONGARA LINE	DL1A	50	3088668	6752317	09:16:00 27/05/2005	=	20.305	m	AHD
14317734	70119301	70119301	DONGARA LINE	DL1A	50	3088668	6752317	10:51:00 18/07/2006	=	20.305	m	AHD
14317734	70119301	70119301	DONGARA LINE	DL1A	50	3088668	6752317	11:17:00 20/11/2007	=	18.905	m	AHD
14317734	70119301	70119301	DONGARA LINE	DL1A	50	3088668	6752317	11:04:00 19/03/2008	=	18.705	m	AHD
14317734	70119301	70119301	DONGARA LINE	DL1A	50	3088668	6752317	10:30:00 09/12/2008	=	19.105	m	AHD
14317734	70119301	70119301	DONGARA LINE	DL1A	50	3088668	6752317	10:44:00 02/04/2009	=	19.205	m	AHD
14317734	70119301	70119301	DONGARA LINE	DL1A	50	3088668	6752317	13:51:00 28/10/2009	=	19.305	m	AHD
14317734	70119301	70119301	DONGARA LINE	DL1A	50	3088668	6752317	12:14:00 01/09/2010	=	18.705	m	AHD



70119302 DONGARA LINE DL2A  
Easting = 320106.00 Northing = 6752422.00 Zone = 50 TOC = 85.48mAHD WIN SITE ID = 14318089



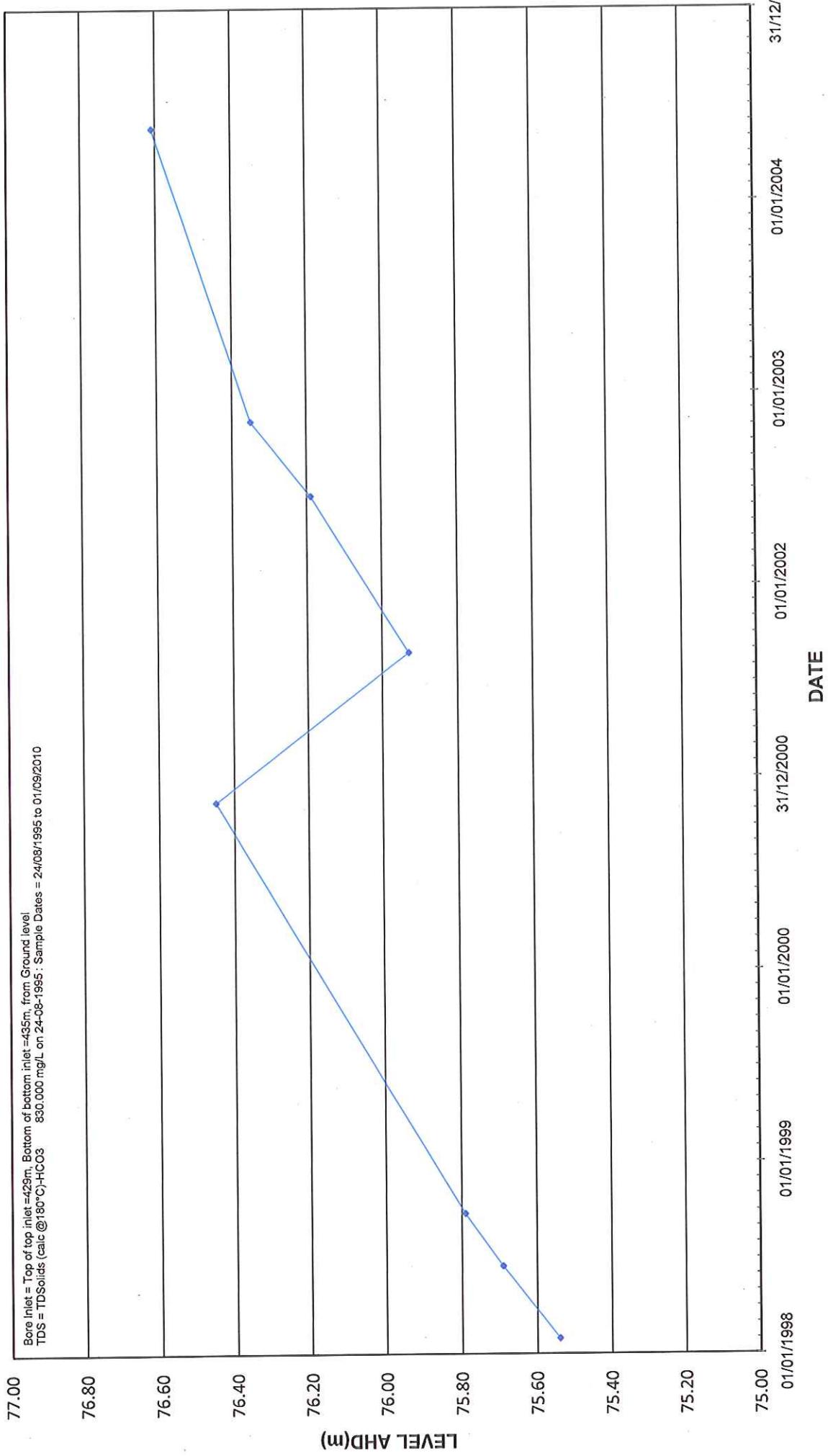
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Datums: AHD = Australian Height Datum. GL = Ground Level. SLE = Standard Level Elevation. 0 = none.  
References: TOC = Top of case. GL = Ground Level. PM = Permanent Mark. TOVAL = Top of Valve. J = none.

WIN SITE ID	AWRC REFERENCE	CONTEXT NAME	NAME	ZONE	EASTING	NORTHING	COLLECTED DATE	READY RELIA	CONVERTED LEVEL (mAHD)	UNIT	USED OUTPUT DATUM
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14318089	70119302	DONGARA LINE	DL2A	50	320106	6752422	12:23:00 29/07/1997	=	45.830	m	AHD
14318089	70119302	DONGARA LINE	DL2A	50	320106	6752422	11:57:00 09/09/1997	=	45.920	m	AHD
14318089	70119302	DONGARA LINE	DL2A	50	320106	6752422	12:22:00 04/12/1997	=	45.870	m	AHD
14318089	70119302	DONGARA LINE	DL2A	50	320106	6752422	11:15:00 09/01/1998	=	45.860	m	AHD
14318089	70119302	DONGARA LINE	DL2A	50	320106	6752422	13:51:00 18/03/1998	=	45.860	m	AHD
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14318089	70119302	DONGARA LINE	DL2A	50	320106	6752422	12:27:00 18/06/2002	=	46.450	m	AHD
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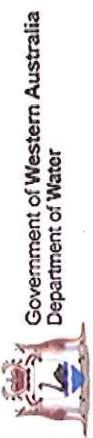
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70119303 DONGARA LINE DL3A  
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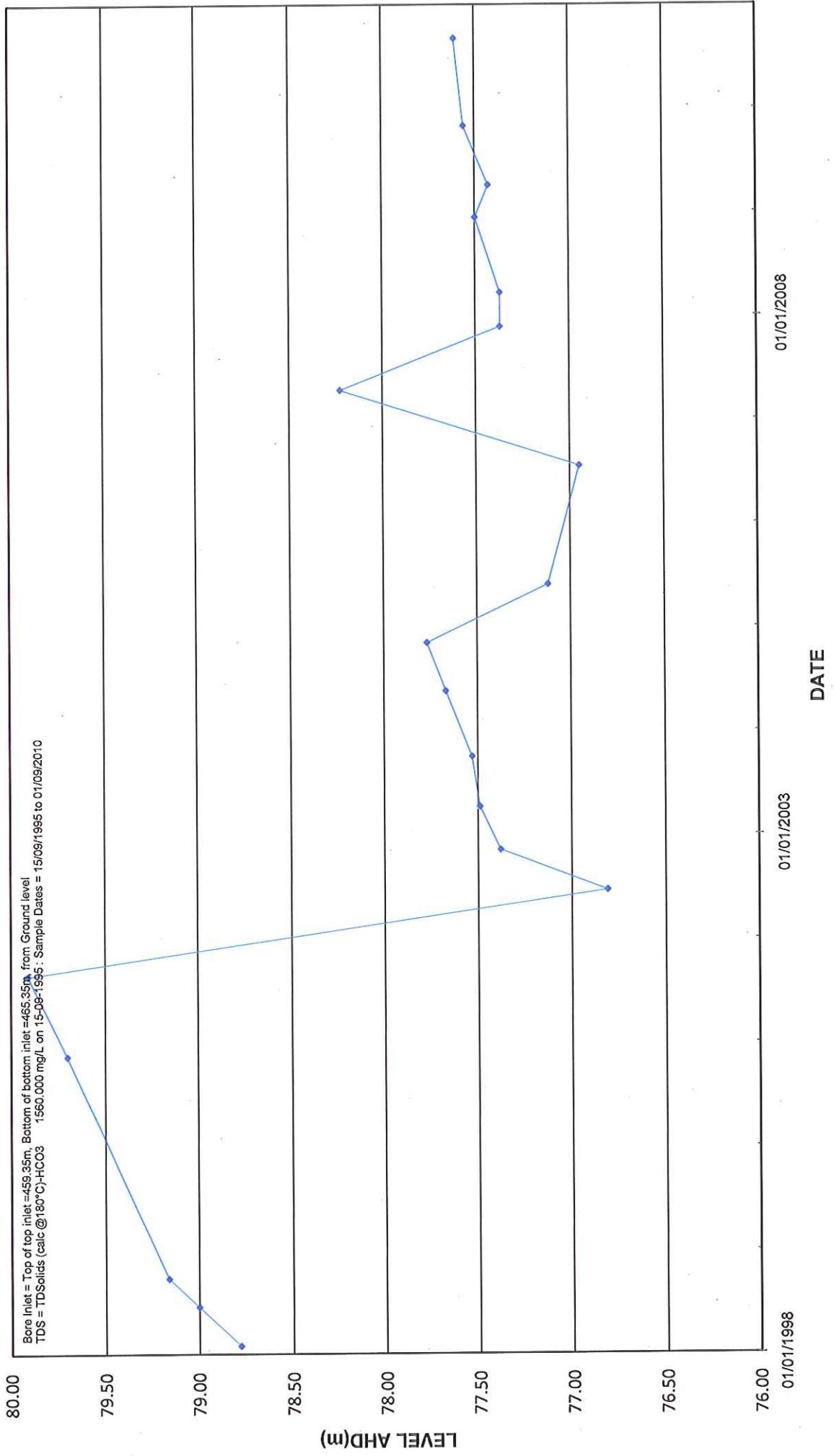


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14318186	70119303	70119303	DONGARA LINE	DL3A	50	333143	6752581	12:05:00 14/11/2000	=	76.450	m	AHD
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14318186	70119303	70119303	DONGARA LINE	DL3A	50	333143	6752581	12:50:00 18/06/2002	=	76.190	m	AHD
14318186	70119303	70119303	DONGARA LINE	DL3A	50	333143	6752581	12:52:00 07/11/2002	=	76.350	m	AHD
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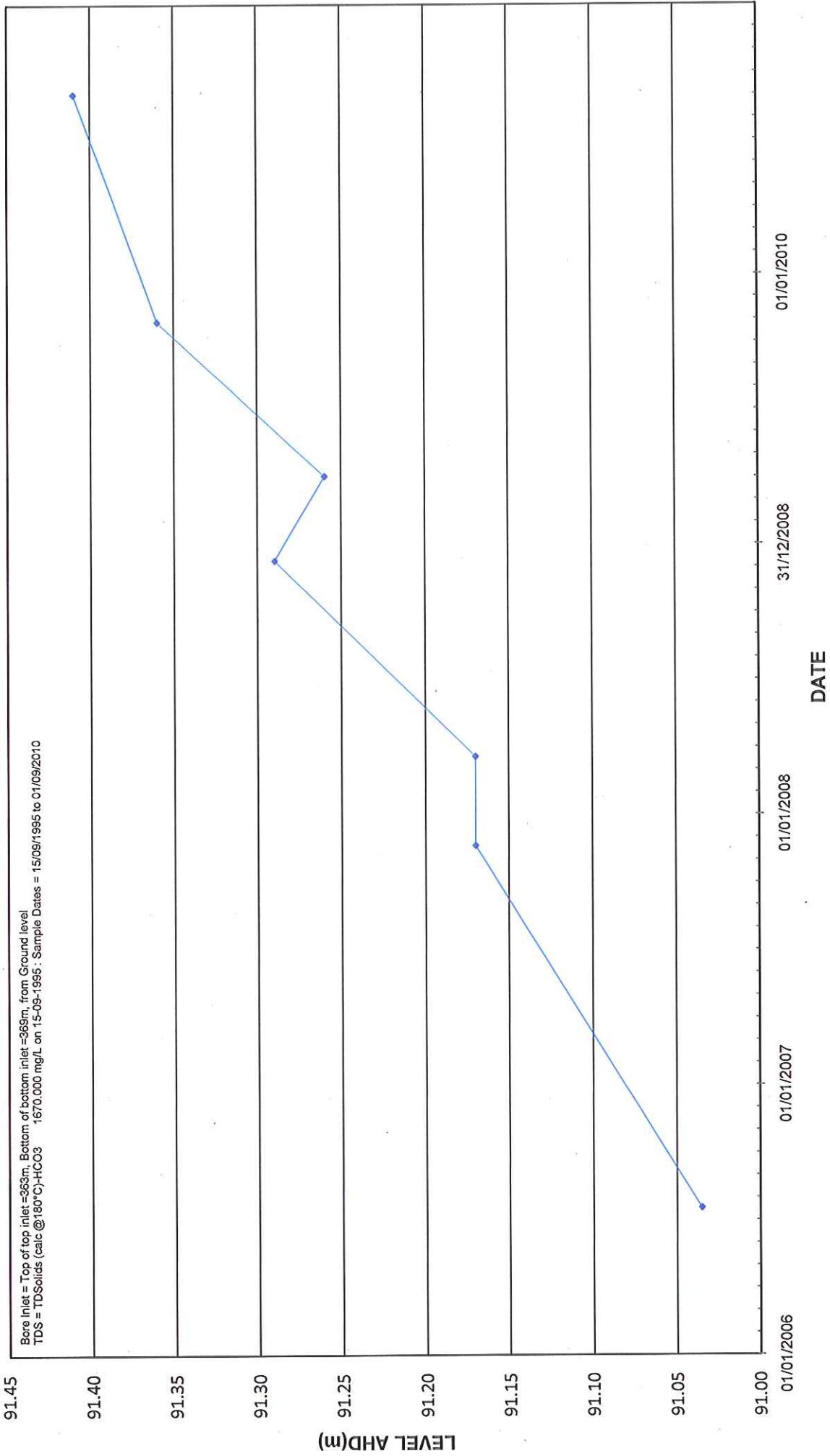


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References: TOC = Top of case. GL = Top of GL. PM = Permanent Mark. TOVAL = Top of Valve. 0 = none.

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14318628	70119304	70119304	DONGARA LINE	DL4B	50	344970	6752754	00:00:00 08/04/2003	=	77.490	m	AHD
14318628	70119304	70119304	DONGARA LINE	DL4B	50	344970	6752754	11:57:00 01/10/2003	=	77.530	m	AHD
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14318628	70119304	70119304	DONGARA LINE	DL4B	50	344970	6752754	12:30:00 20/11/2007	=	77.370	m	AHD
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14318628	70119304	70119304	DONGARA LINE	DL4B	50	344970	6752754	11:52:00 02/04/2009	=	77.430	m	AHD
14318628	70119304	70119304	DONGARA LINE	DL4B	50	344970	6752754	12:29:00 28/10/2009	=	77.560	m	AHD
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70119305 DONGARA LINE DL5A  
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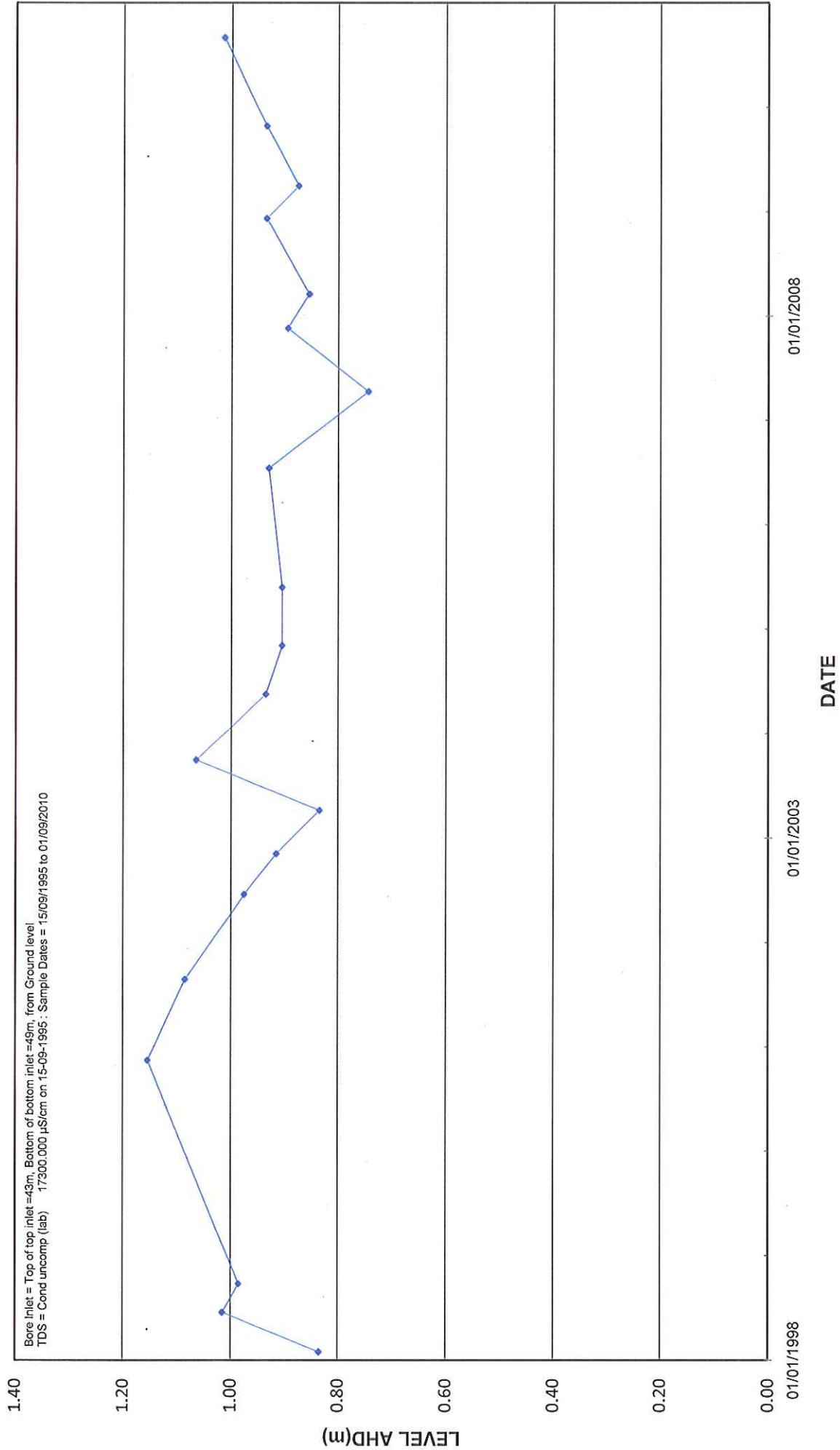
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14318635	70119305	70119305	DONGARA LINE	DL5A	50	356890	6752577	13:01:00 19/03/2008	=	91.170	m	AHD
14318635	70119305	70119305	DONGARA LINE	DL5A	50	356890	6752577	11:56:00 09/12/2008	=	91.290	m	AHD
14318635	70119305	70119305	DONGARA LINE	DL5A	50	356890	6752577	12:17:00 02/04/2009	=	91.260	m	AHD
14318635	70119305	70119305	DONGARA LINE	DL5A	50	356890	6752577	12:05:00 28/10/2009	=	91.360	m	AHD
14318635	70119305	70119305	DONGARA LINE	DL5A	50	356890	6752577	14:20:00 01/09/2010	=	91.410	m	AHD



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70119306 DONGARA LINE DL1W  
Easting = 308684.00 Northing = 6752306.00 Zone = 50 TOC = 16.335mAHD WIN SITE ID = 14317843



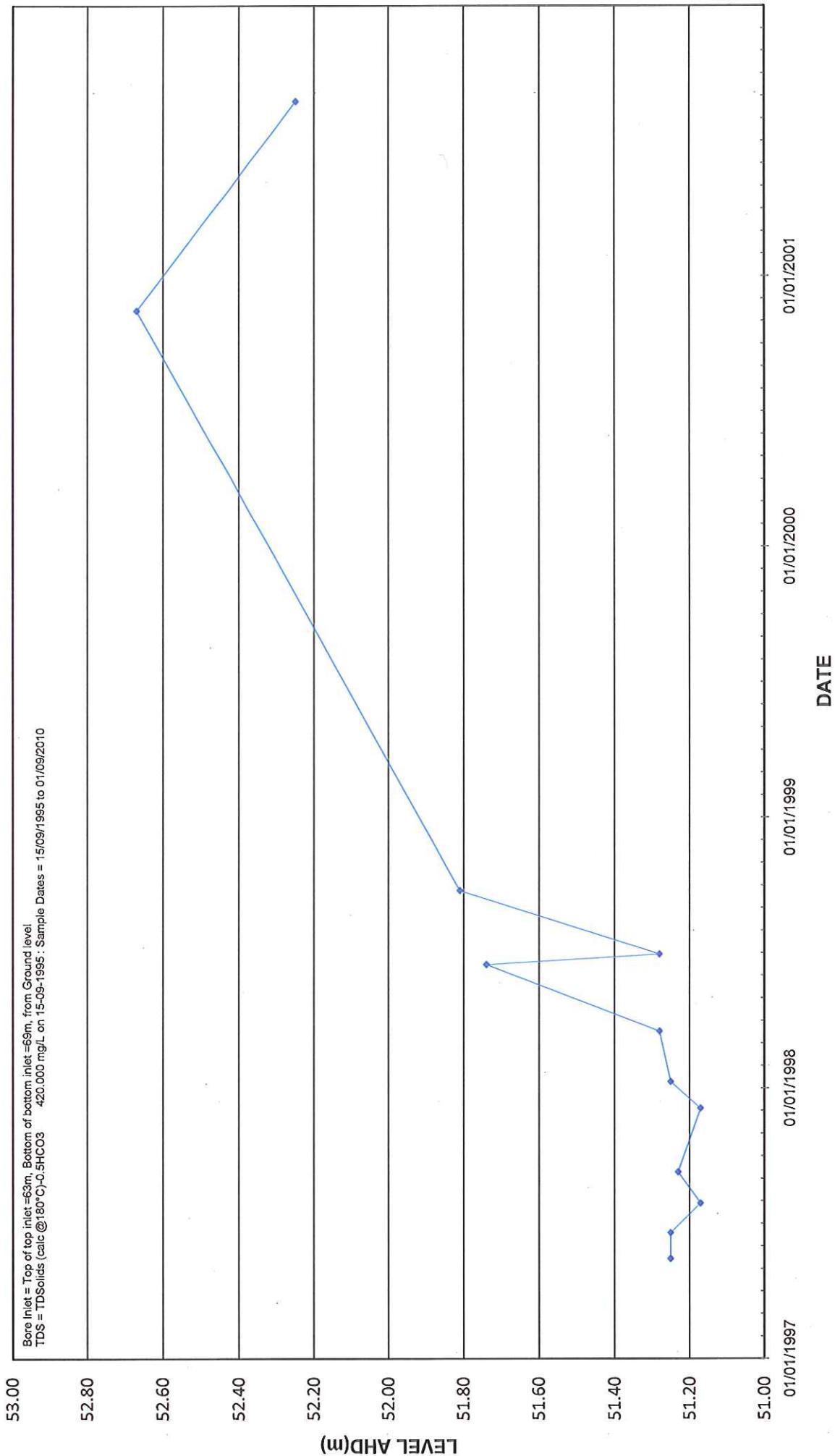
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References: TOC = Top of case, GL = Ground Level, PM = Permanent Mark, TOVAL = Permanent Mark.

WIN SITE ID	AWRC REF	REFERENCE	CONTEXT NAME	NAME	ZONE	EASTING	NORTHING	COLLECTED DATE	READY RELIA	CONVERTED LEVEL (mAHD)	UNIT	USED OUTPUT DATUM
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14317843	70119306	70119306	DONGARA LINE	DL1W	50	308684	6752306	12:56:00 16/06/1998	=	1.015	m	AHD
14317843	70119306	70119306	DONGARA LINE	DL1W	50	308684	6752306	09:58:00 24/09/1998	=	0.985	m	AHD
14317843	70119306	70119306	DONGARA LINE	DL1W	50	308684	6752306	10:42:00 14/11/2000	=	1.155	m	AHD
14317843	70119306	70119306	DONGARA LINE	DL1W	50	308684	6752306	12:56:00 24/08/2001	=	1.085	m	AHD
14317843	70119306	70119306	DONGARA LINE	DL1W	50	308684	6752306	11:45:00 18/06/2002	=	0.975	m	AHD
14317843	70119306	70119306	DONGARA LINE	DL1W	50	308684	6752306	11:15:00 07/11/2002	=	0.915	m	AHD
14317843	70119306	70119306	DONGARA LINE	DL1W	50	308684	6752306	00:00:00 08/04/2003	=	0.835	m	AHD
14317843	70119306	70119306	DONGARA LINE	DL1W	50	308684	6752306	10:15:00 01/10/2003	=	1.065	m	AHD
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14317843	70119306	70119306	DONGARA LINE	DL1W	50	308684	6752306	09:14:00 04/11/2004	=	0.905	m	AHD
14317843	70119306	70119306	DONGARA LINE	DL1W	50	308684	6752306	09:19:00 27/05/2005	=	0.905	m	AHD
14317843	70119306	70119306	DONGARA LINE	DL1W	50	308684	6752306	10:47:00 18/07/2006	=	0.930	m	AHD
14317843	70119306	70119306	DONGARA LINE	DL1W	50	308684	6752306	11:10:00 12/04/2007	=	0.745	m	AHD
14317843	70119306	70119306	DONGARA LINE	DL1W	50	308684	6752306	11:12:00 20/11/2007	=	0.895	m	AHD
14317843	70119306	70119306	DONGARA LINE	DL1W	50	308684	6752306	11:10:50 19/03/2008	=	0.855	m	AHD
14317843	70119306	70119306	DONGARA LINE	DL1W	50	308684	6752306	10:32:00 09/12/2008	=	0.935	m	AHD
14317843	70119306	70119306	DONGARA LINE	DL1W	50	308684	6752306	10:45:00 02/04/2009	=	0.875	m	AHD
14317843	70119306	70119306	DONGARA LINE	DL1W	50	308684	6752306	13:52:00 28/10/2009	=	0.935	m	AHD
14317843	70119306	70119306	DONGARA LINE	DL1W	50	308684	6752306	12:15:00 01/09/2010	=	1.015	m	AHD



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70119307 DONGARA LINE DL2W  
Easting = 320106.00 Northing = 6752422.00 Zone = 50 TOC = 85.16mAHD WIN SITE ID = 14318149



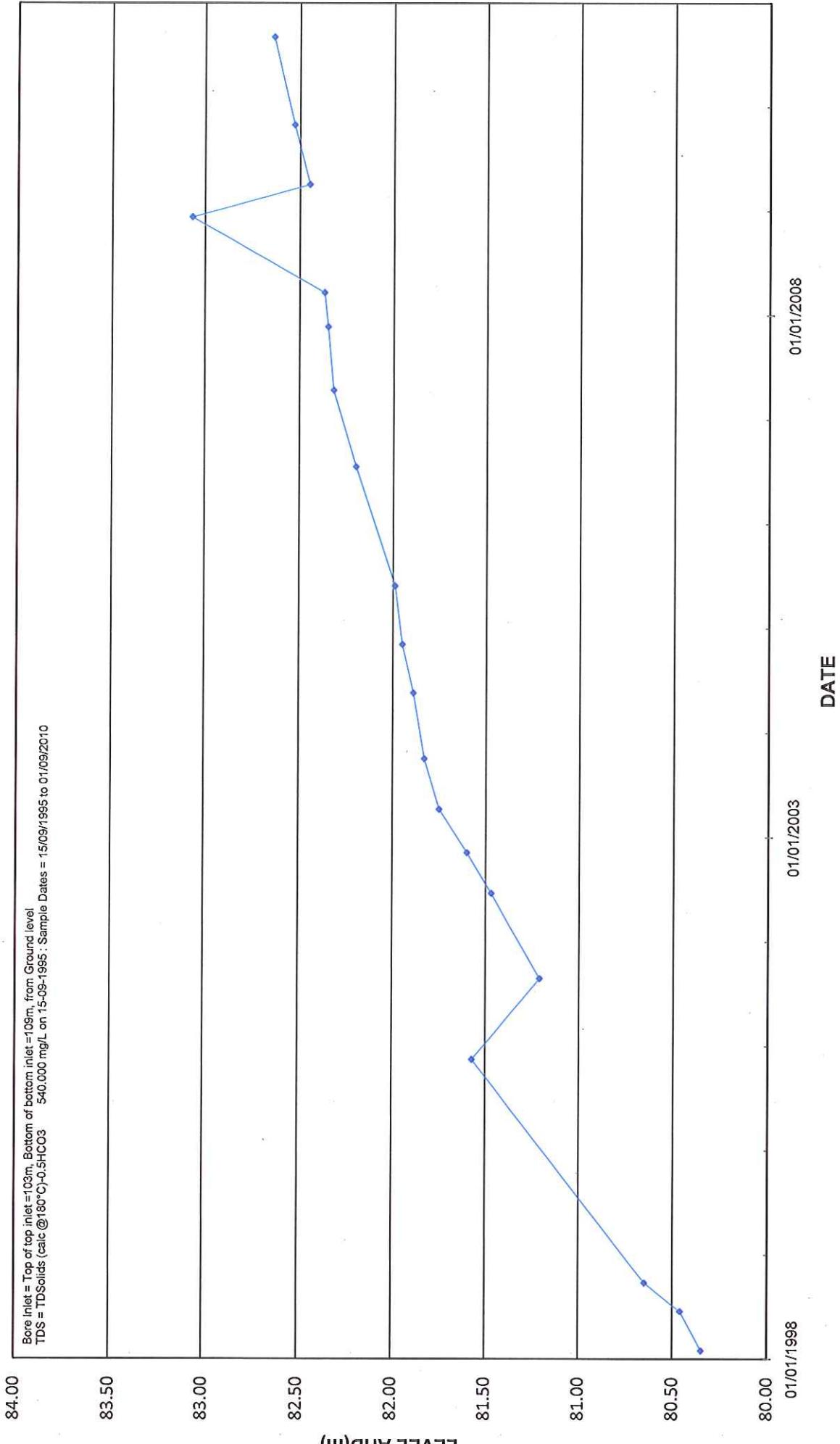
◆ = Good Record    ● = Satisfactory Record    ▲ = Water Level is Above the Datum ■ = Water Level is Below the Reading  
Datum: AHD = Australian Height Datum. GL = Ground Level. SLE = Standard Level Elevation. 0 = none.  
References: TOC = Top of case. GL = Ground Level. PM = Permanent Mark. TOVAL = Top of Valve. 0 = none.

WIN SITE ID	AWRC REF	REFERENC E	CONTEXT NAME	NAME	ZONE	EASTING	NORTHING	COLLECTED DATE	READI NG RELIA	CONVERTED LEVEL (mAHD)	UNIT	USED OUTPUT DATUM
14318149	70119307		DONGARA LINE	DL2W	50	320106	6752422	12:06:00 15/05/1997	=	51.250	m	AHD
14318149	70119307		DONGARA LINE	DL2W	50	320106	6752422	11:46:00 19/06/1997	=	51.250	m	AHD
14318149	70119307		DONGARA LINE	DL2W	50	320106	6752422	12:26:00 29/07/1997	=	51.170	m	AHD
14318149	70119307		DONGARA LINE	DL2W	50	320106	6752422	12:01:00 09/09/1997	=	51.230	m	AHD
14318149	70119307		DONGARA LINE	DL2W	50	320106	6752422	12:24:00 04/12/1997	=	51.170	m	AHD
14318149	70119307		DONGARA LINE	DL2W	50	320106	6752422	11:18:00 09/01/1998	=	51.250	m	AHD
14318149	70119307		DONGARA LINE	DL2W	50	320106	6752422	13:53:00 18/03/1998	=	51.280	m	AHD
14318149	70119307		DONGARA LINE	DL2W	50	320106	6752422	14:08:00 16/06/1998	=	51.740	m	AHD
14318149	70119307		DONGARA LINE	DL2W	50	320106	6752422	10:37:00 30/06/1998	=	51.280	m	AHD
14318149	70119307		DONGARA LINE	DL2W	50	320106	6752422	10:29:00 24/09/1998	=	51.810	m	AHD
14318149	70119307		DONGARA LINE	DL2W	50	320106	6752422	11:33:00 14/11/2000	=	52.670	m	AHD
14318149	70119307		DONGARA LINE	DL2W	50	320106	6752422	10:39:00 24/08/2001	=	52.250	m	AHD



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70119308 DONGARA LINE DL3W  
Easting = 333127.00 Northing = 6752570.00 Zone = 50 TOC = 129.13mAHD WIN SITE ID = 14318356



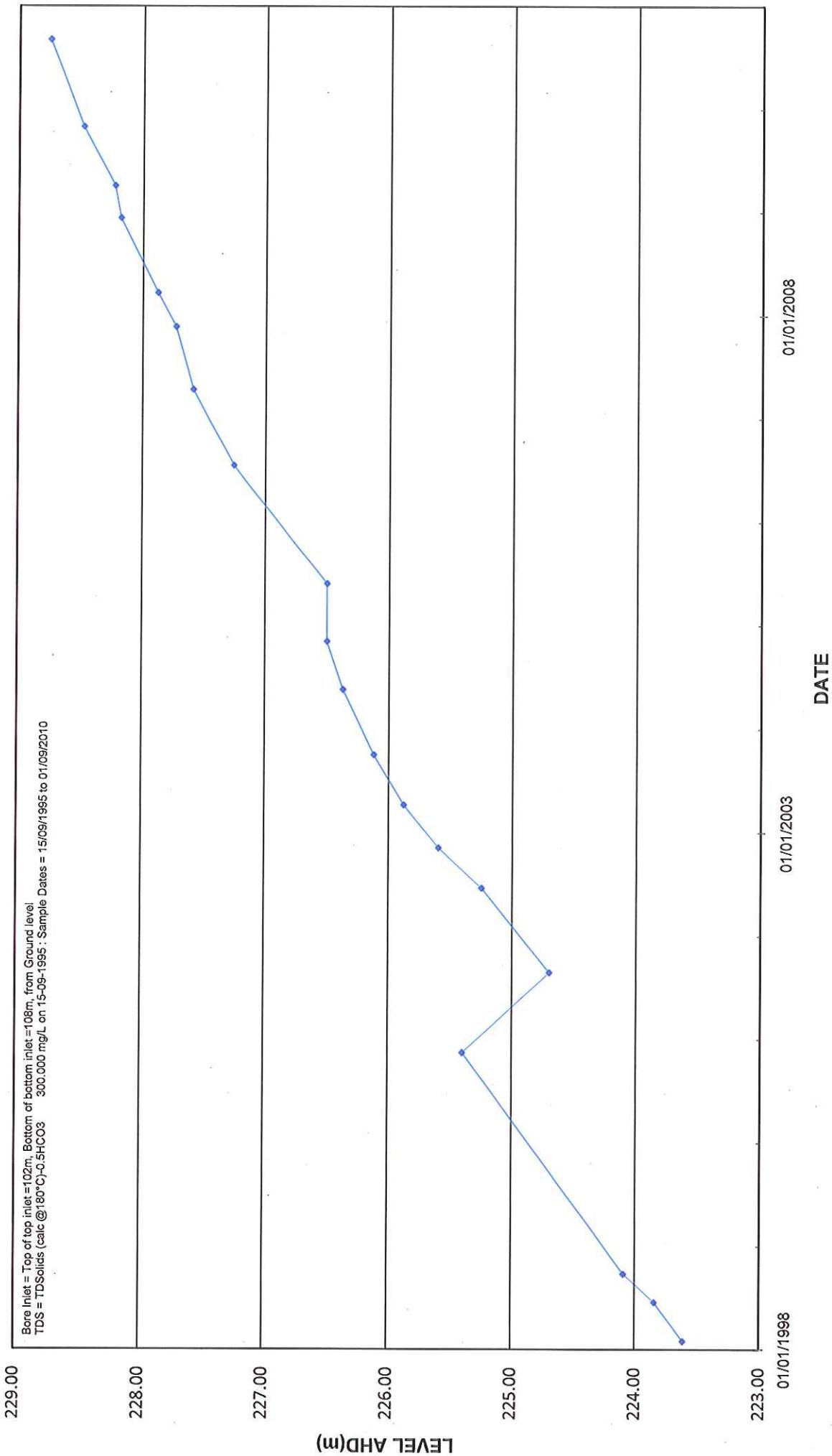
◆ = Good Record   ● = Satisfactory Record   ▲ = Water Level is Above the Datum   ■ = Water Level is Below the Reading  
Datum: AHD = Australian Height Datum. GL = Ground Level. SLE = Standard Level Elevation. () = none.  
References: TOC = Top of case. GL = Ground Level. PM = Permanent Mark. TOVAL = Top of Valve. () = none.

WIN SITE ID	AWRC REF	REFERENCE	CONTEXT NAME	NAME	ZONE	EASTING	NORTHING	COLLECTED DATE	READY RELIA	CONVERTED LEVEL (mAHD)	UNIT	USED OUTPUT DATUM
14318356	70119308	70119308	DONGARA LINE	DL3W	50	333127	6752570	12:09:00 29/01/1998	=	80.350	m	AHD
14318356	70119308	70119308	DONGARA LINE	DL3W	50	333127	6752570	10:04:00 16/06/1998	=	80.460	m	AHD
14318356	70119308	70119308	DONGARA LINE	DL3W	50	333127	6752570	10:55:00 24/09/1998	=	80.650	m	AHD
14318356	70119308	70119308	DONGARA LINE	DL3W	50	333127	6752570	12:10:00 14/11/2000	=	81.570	m	AHD
14318356	70119308	70119308	DONGARA LINE	DL3W	50	333127	6752570	11:11:00 24/08/2001	=	81.210	m	AHD
14318356	70119308	70119308	DONGARA LINE	DL3W	50	333127	6752570	12:40:00 18/06/2002	=	81.470	m	AHD
14318356	70119308	70119308	DONGARA LINE	DL3W	50	333127	6752570	12:56:00 07/11/2002	=	81.600	m	AHD
14318356	70119308	70119308	DONGARA LINE	DL3W	50	333127	6752570	00:00:00 08/04/2003	=	81.750	m	AHD
14318356	70119308	70119308	DONGARA LINE	DL3W	50	333127	6752570	11:24:00 01/10/2003	=	81.830	m	AHD
14318356	70119308	70119308	DONGARA LINE	DL3W	50	333127	6752570	11:53:00 18/05/2004	=	81.890	m	AHD
14318356	70119308	70119308	DONGARA LINE	DL3W	50	333127	6752570	10:30:00 04/11/2004	=	81.950	m	AHD
14318356	70119308	70119308	DONGARA LINE	DL3W	50	333127	6752570	10:53:00 27/05/2005	=	81.990	m	AHD
14318356	70119308	70119308	DONGARA LINE	DL3W	50	333127	6752570	12:00:00 18/07/2006	=	82.200	m	AHD
14318356	70119308	70119308	DONGARA LINE	DL3W	50	333127	6752570	12:14:00 12/04/2007	=	82.320	m	AHD
14318356	70119308	70119308	DONGARA LINE	DL3W	50	333127	6752570	13:42:00 20/11/2007	=	82.350	m	AHD
14318356	70119308	70119308	DONGARA LINE	DL3W	50	333127	6752570	12:31:00 19/03/2008	=	82.370	m	AHD
14318356	70119308	70119308	DONGARA LINE	DL3W	50	333127	6752570	11:31:00 09/12/2008	=	83.070	m	AHD
14318356	70119308	70119308	DONGARA LINE	DL3W	50	333127	6752570	11:43:00 02/04/2009	=	82.450	m	AHD
14318356	70119308	70119308	DONGARA LINE	DL3W	50	333127	6752570	12:40:00 28/10/2009	=	82.530	m	AHD
14318356	70119308	70119308	DONGARA LINE	DL3W	50	333127	6752570	13:50:00 01/09/2010	=	82.640	m	AHD



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70119309 DONGARA LINE DL5W  
Easting = 356876.00 Northing = 6752562.00 Zone = 50 TOC = 299.69mAHD WIN SITE ID = 14318653



◆ = Good Record ● = Satisfactory Record ▲ = Water Level is Above the Datum ■ = Water Level is Below the Reading  
Datum; AHD = Australian Height Datum. GL = Ground Level. SLE = Standard Level Elevation. () = none.  
References: TOC = Top of case. GL = Ground Level. PM = Permanent Mark. TOVAL = Top of Valve. () = none.

WIN SITE ID	AWRC REF	REFERENCE E	CONTEXT NAME	NAME ZONE	EASTING	NORTHING	COLLECTED DATE	READYING RELIA	CONVERTED LEVEL (mAHD)	UNIT	USED OUTPUT DATUM
14318653	70119309	70119309	DONGARA LINE	DL5W	50	356876	6752562	13:08:00 29/01/1998	=	223.610 m	AHD
14318653	70119309	70119309	DONGARA LINE	DL5W	50	356876	6752562	11:28:00 16/06/1998	=	223.840 m	AHD
14318653	70119309	70119309	DONGARA LINE	DL5W	50	356876	6752562	11:27:00 24/09/1998	=	224.090 m	AHD
14318653	70119309	70119309	DONGARA LINE	DL5W	50	356876	6752562	13:04:00 14/11/2000	=	225.400 m	AHD
14318653	70119309	70119309	DONGARA LINE	DL5W	50	356876	6752562	12:00:00 24/08/2001	=	224.700 m	AHD
14318653	70119309	70119309	DONGARA LINE	DL5W	50	356876	6752562	13:26:00 18/06/2002	=	225.250 m	AHD
14318653	70119309	70119309	DONGARA LINE	DL5W	50	356876	6752562	13:31:00 07/11/2002	=	225.600 m	AHD
14318653	70119309	70119309	DONGARA LINE	DL5W	50	356876	6752562	00:00:00 08/04/2003	=	225.880 m	AHD
14318653	70119309	70119309	DONGARA LINE	DL5W	50	356876	6752562	12:17:00 01/10/2003	=	226.120 m	AHD
14318653	70119309	70119309	DONGARA LINE	DL5W	50	356876	6752562	13:08:00 18/05/2004	=	226.370 m	AHD
14318653	70119309	70119309	DONGARA LINE	DL5W	50	356876	6752562	12:00:00 04/11/2004	=	226.500 m	AHD
14318653	70119309	70119309	DONGARA LINE	DL5W	50	356876	6752562	11:54:00 27/05/2005	=	226.500 m	AHD
14318653	70119309	70119309	DONGARA LINE	DL5W	50	356876	6752562	12:47:00 18/07/2006	=	227.260 m	AHD
14318653	70119309	70119309	DONGARA LINE	DL5W	50	356876	6752562	12:55:00 12/04/2007	=	227.590 m	AHD
14318653	70119309	70119309	DONGARA LINE	DL5W	50	356876	6752562	14:23:00 20/11/2007	=	227.730 m	AHD
14318653	70119309	70119309	DONGARA LINE	DL5W	50	356876	6752562	13:04:00 19/03/2008	=	227.880 m	AHD
14318653	70119309	70119309	DONGARA LINE	DL5W	50	356876	6752562	12:00:00 09/12/2008	=	228.180 m	AHD
14318653	70119309	70119309	DONGARA LINE	DL5W	50	356876	6752562	12:10:00 02/04/2009	=	228.230 m	AHD
14318653	70119309	70119309	DONGARA LINE	DL5W	50	356876	6752562	12:06:00 28/10/2009	=	228.480 m	AHD
14318653	70119309	70119309	DONGARA LINE	DL5W	50	356876	6752562	14:25:00 01/09/2010	=	228.750 m	AHD

### Attachment 3

