

# Technical Note

<b>Project:</b>	<b>A303 Amesbury to Berwick Down</b>				
<b>Title:</b>	<b>Blick Mead monitoring to March 2019</b>				
<b>Doc ID:</b>	<b>HE51506-AMW-EWE-SW_GN_000_ZZ-TN-WR-0015</b>				
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<b>Doc Cat.</b>	<i>Unrestricted</i>	<b>Author:</b>	<b>Felix Mulligan</b>		

<b>Revision</b>	<b>Date</b>	<b>Prepared by</b>	<b>Reviewed by</b>	<b>Approved by</b>
P01	05/04/2019	Felix Mulligan	Andrew Longley	Jane Sladen

## 1 Introduction

Groundwater and surface water levels have been recorded across the Blick Mead site, as part of the Applicant's commitment to ongoing monitoring at this location (as noted at paragraph 11.3.14 of the ES). This data is not required to inform the EIA. Levels have been recorded both manually using a dip meter or gauge board and automatically using a data logger. A map of the site showing the locations of each monitoring point is given in Appendix A. A summary of manual dips collected thus far are given in the below tables. A series of graphs displaying the automatic logger data gathered to date are given in Appendix B, the manual dips are also displayed on these graphs to confirm the accuracy of the data loggers.

## 2 AL1 (Upstream River Avon)

<b>Date and Time</b>	<b>Gauge board Reading (m)</b>	<b>Elevation (maOD)</b>
17/08/2018 13:45	0.49	67.45
22/08/2018 10:35	0.46	67.42
02/11/2018 09:15	0.22	67.18
28/11/2018 11:10	0.26	67.22
06/12/2018 13:40	0.32	67.28
14/12/2018 12:20	0.34	67.30
21/12/2018 12:00	0.56	67.52
18/01/2019 11:31	0.37	67.33
06/03/2019 11:42	0.42	67.43

## 3 AL2 (Chinese House)

<b>Date and Time</b>	<b>Gauge board Reading (m)</b>	<b>Elevation (maOD)</b>
17/08/2018 14:25	0.26	67.48
22/08/2018 10:54	0.23	67.45
02/11/2018 09:58	0.03	67.25
28/11/2018	0.09	67.31

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14/12/2018	0.17	67.39
21/12/2018	0.39	67.61
18/01/2019 14:24	0.20	67.42
06/03/2019 09:55	0.29	67.51

## 4 AS (Abbey Spring)

Date and Time	Gauge board Reading (m)	Elevation (maOD)
02/11/2018	Manual Dip: 1.15 (mbdat)	67.59
26/11/2018 11:55	Manual Dip: 1.15 (mbdat)	67.59
28/11/2018 14:45	Manual Dip: 1.11 (mbdat)	67.63
06/12/2018 13:27	Manual Dip: 1.10 (mbdat)	67.64
14/12/2018	0.03	67.75
21/12/2018	0.11	67.83
18/01/2019 14:30	0.11	67.83
06/03/2019 09:27	0.10	67.82

## 5 WS02 (Groundwater)

Date and Time	Manual Dip (mbdat)	Elevation (maOD)
27/11/2018 08:30	1.96	67.57
28/11/2018 14:45	1.91	67.62
06/12/2018 13:34	1.83	67.70
18/01/2019 13:50	1.55	67.98
06/03/2019 08:23	1.34	68.19

## 6 WS03 (Groundwater)

Date and Time	Manual Dip (mbdat)	Elevation (maOD)
27/11/2018 11:30	3.27 (post borehole construction)	67.03
28/11/2018 15:35	2.54	67.76
18/01/2019 12:16	2.15	68.15
06/03/2019 11:13	1.82	68.48

## 7 WS05 (Groundwater)

Date and Time	Manual Dip (mbdat)	Elevation (maOD)
27/11/2018 12:15	1.95 (post borehole construction)	67.42
28/11/2018 14:05	1.68	67.69
18/01/2019 12:01	1.33	68.04
06/03/2019 10:41	1.09	68.28

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## 8 WS09 (Groundwater)

Date and Time	Manual Dip (mbdat)	Elevation (maOD)
26/11/2018 14:15	1.17	67.71
27/11/2018 14:00	1.18	67.70
28/11/2018 15:18	1.12	67.76
06/12/2018 12:24	1.03	67.85
18/01/2019 13:31	0.64	68.24
06/03/2019 08:57	0.33	68.55

## 9 WS10 (Groundwater)

Date and Time	Manual Dip (mbdat)	Elevation (maOD)
27/11/2018 14:10	1.26	67.62
28/11/2018 15:40	0.91	67.97
06/12/2018 12:30	0.97	67.91
18/01/2019 12:44	0.68	68.20
06/03/2019 12:20	0.37	68.51

## 10 Archaeology Site Pit

Date and Time	Tape Measure Reading (m)	Elevation (maOD)
02/11/2018	0.54	67.70
26/11/2018	0.59	67.75
06/12/2018	0.72	67.88
14/12/2018	0.76	67.92
21/12/2018	1.09	68.25
18/01/2019 13:30	1.12	68.28
06/03/2019 08:57	1.43	68.59

## 11 Summary

This report provides the results of on-going groundwater recording and monitoring at Blick Mead, as requested by stakeholders, and reports results which are consistent with the findings of the Tiered Assessment presented in Annex 3 of Appendix 11.4 - Groundwater Risk Assessment [APP-282] and the ES.

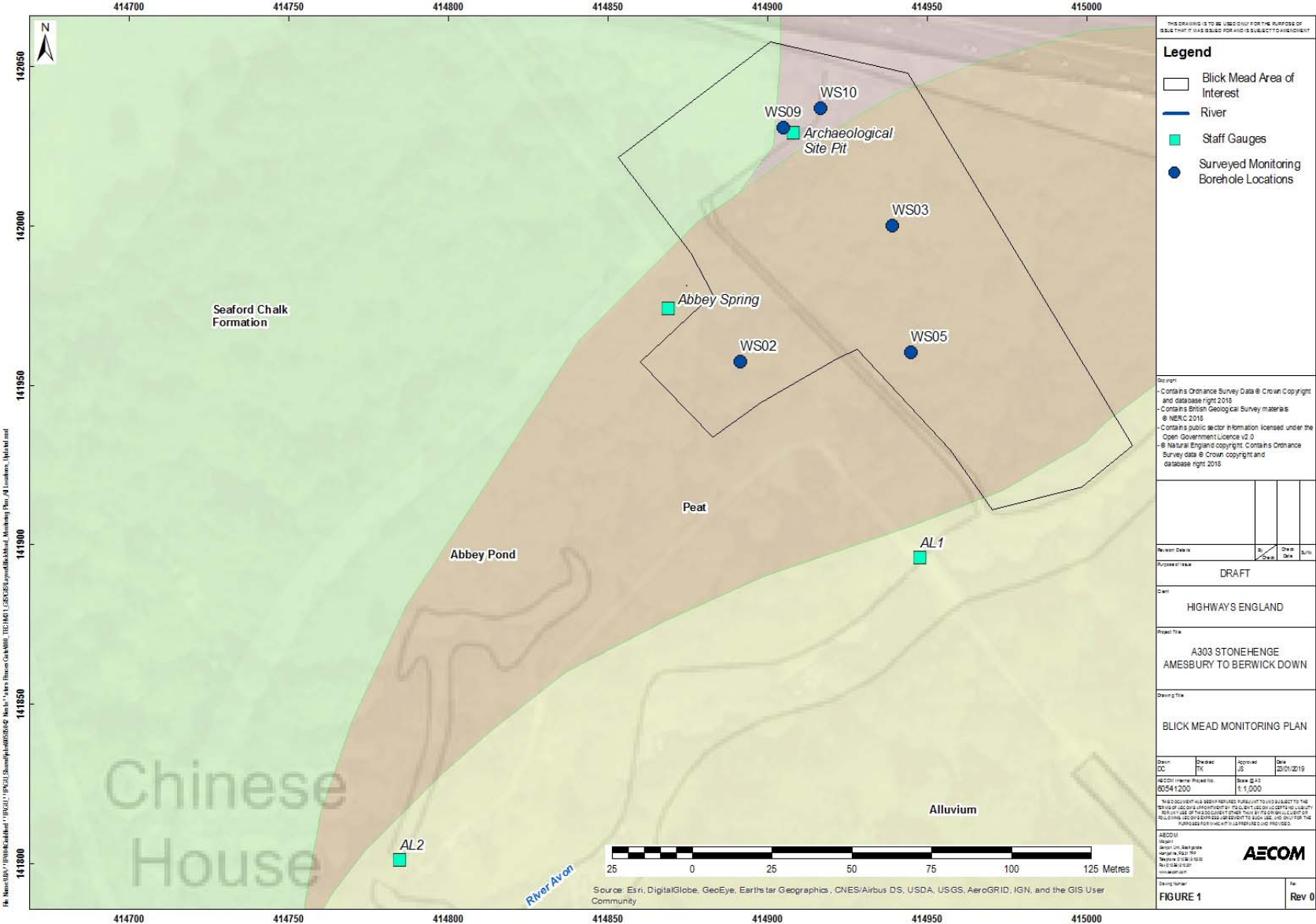
It is noted that, while stakeholders with an interest in Blick Mead have requested that additional piezometers are installed in the same general area at more dense spacing, this is still under discussion.

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## Appendix A

### Appendix A: Blick Mead Monitoring Locations Map

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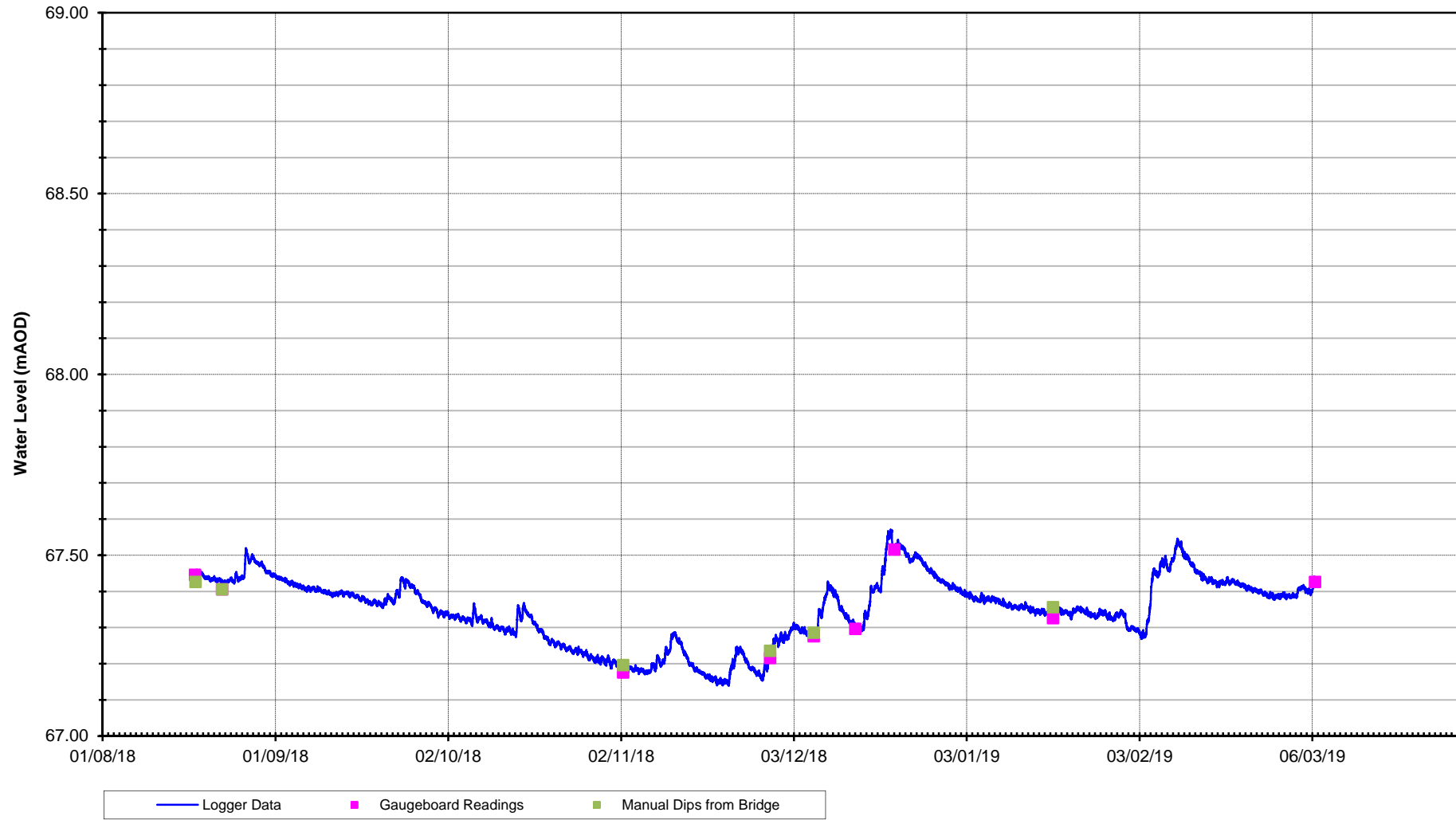


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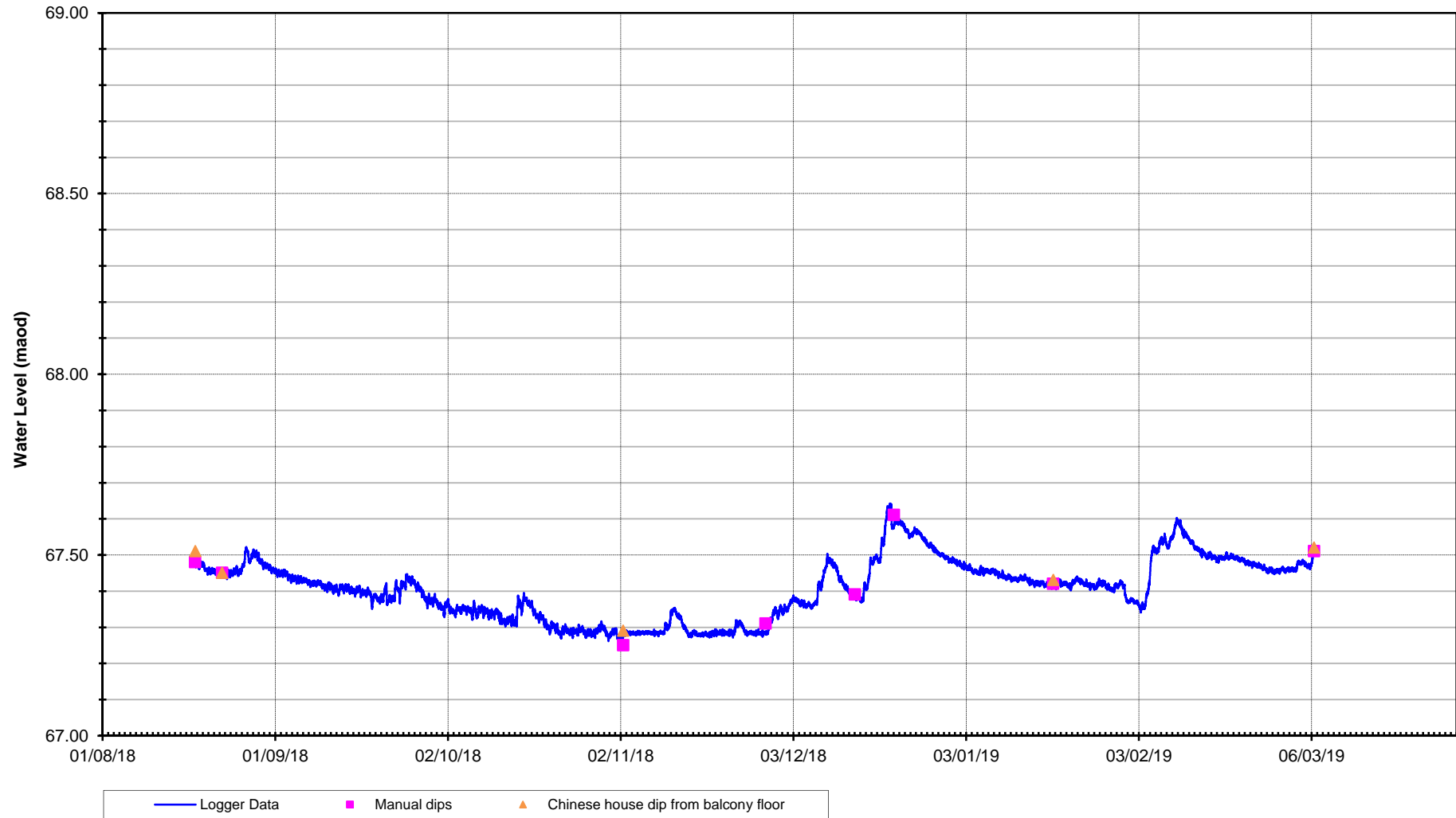
## Appendix B

### Appendix B: Automatic data logger graphs

# AL1

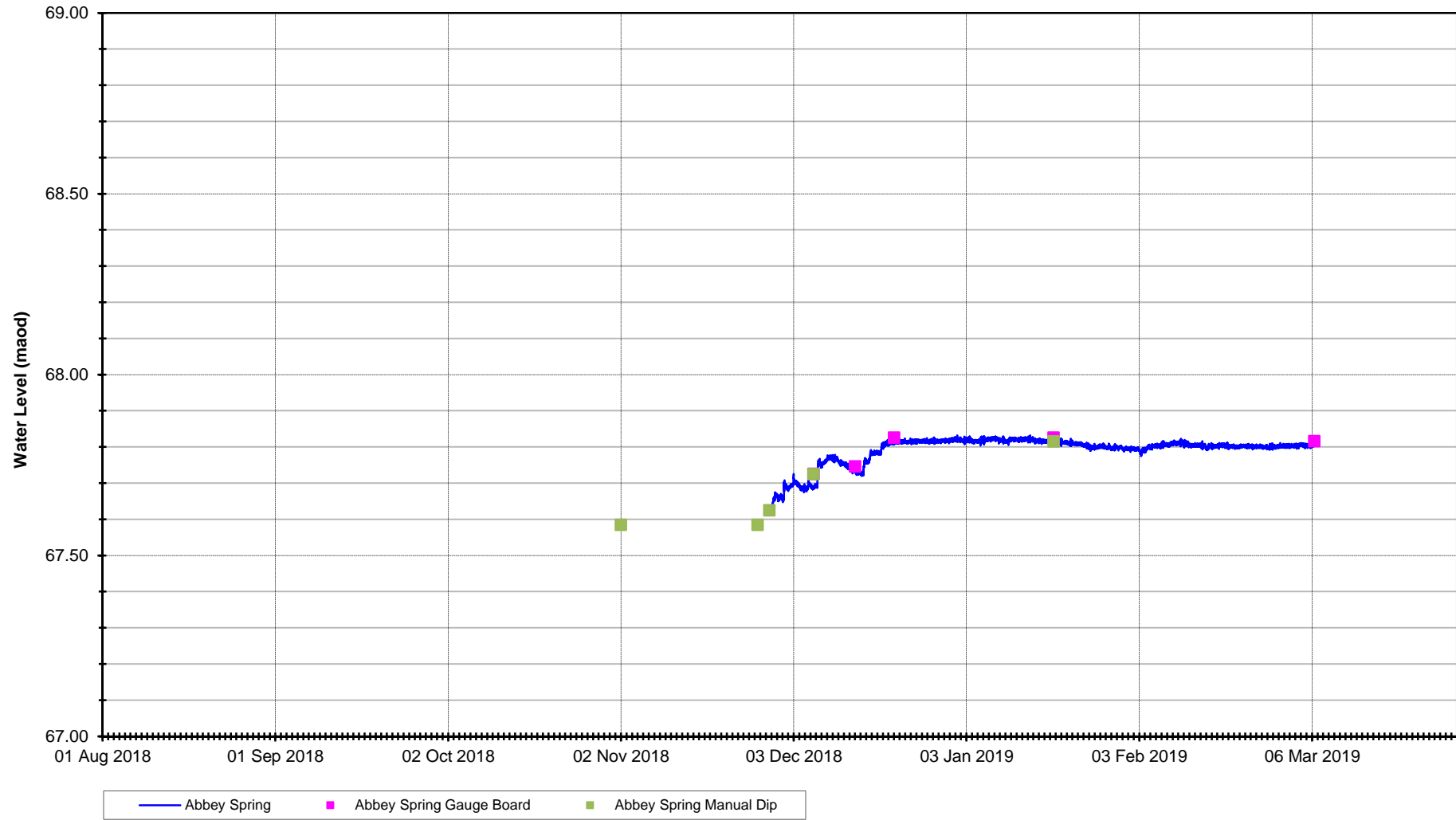


### AL2 - Chinese House



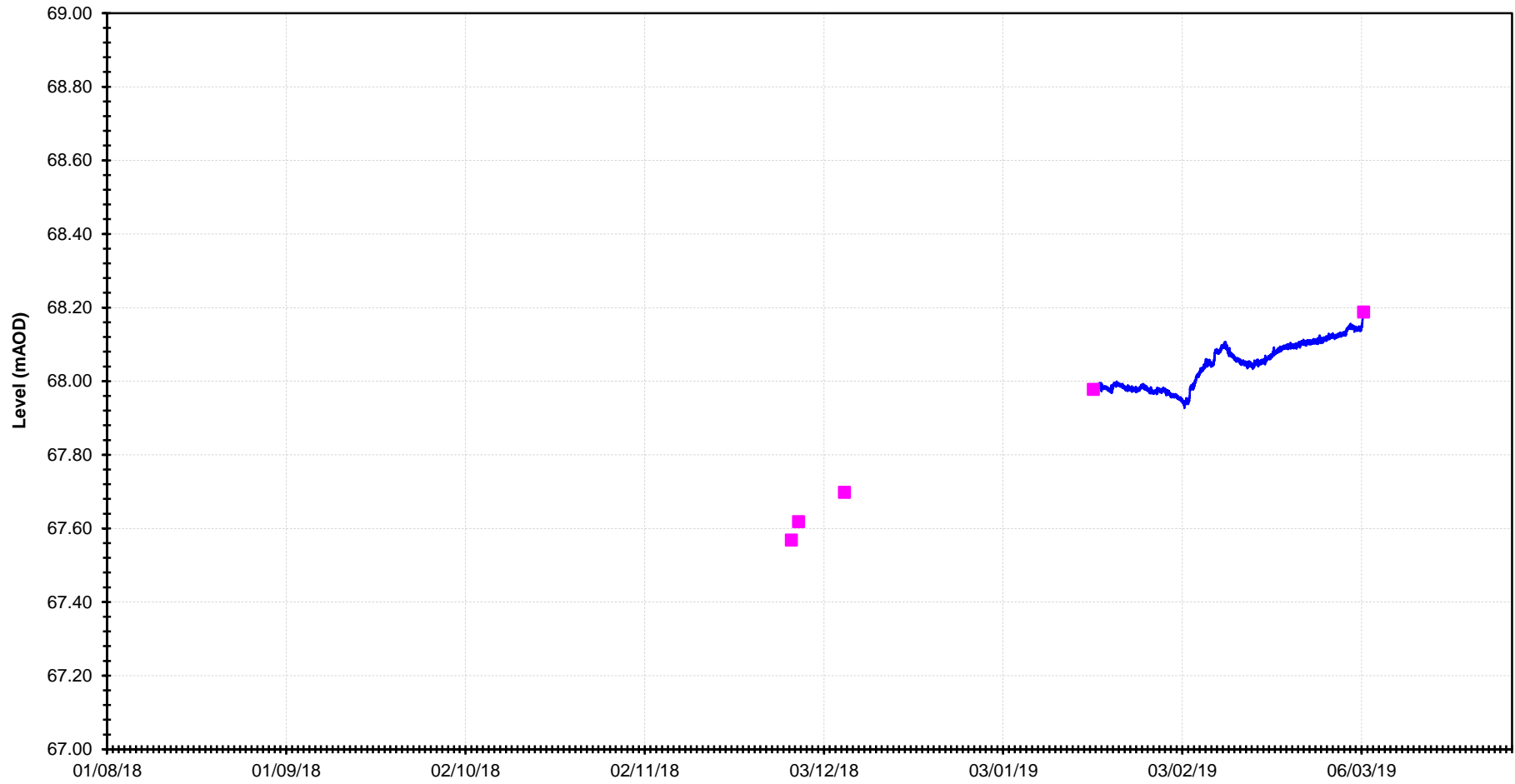


# Abbey Spring



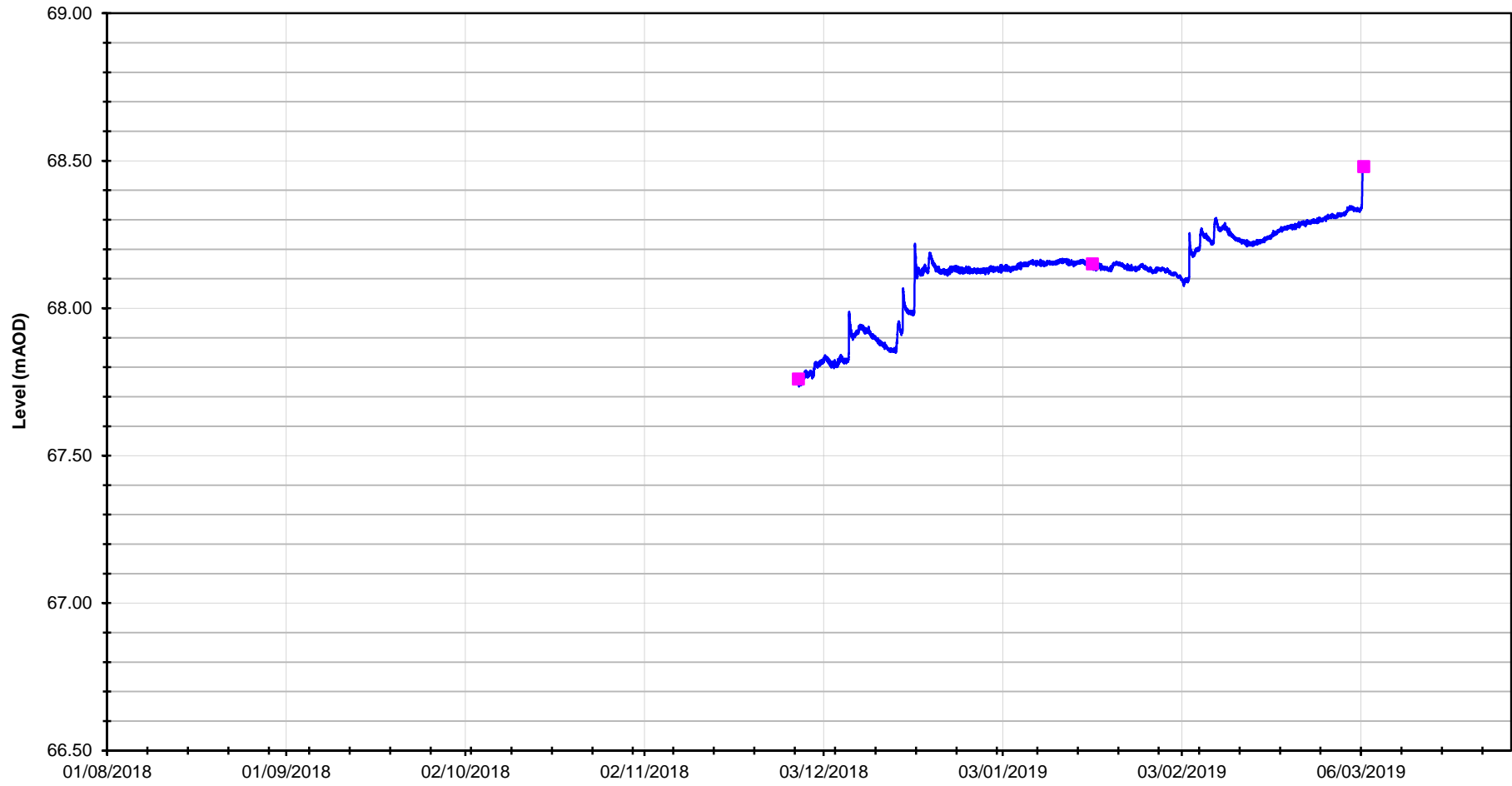
WS02

WS02 Manual Dips



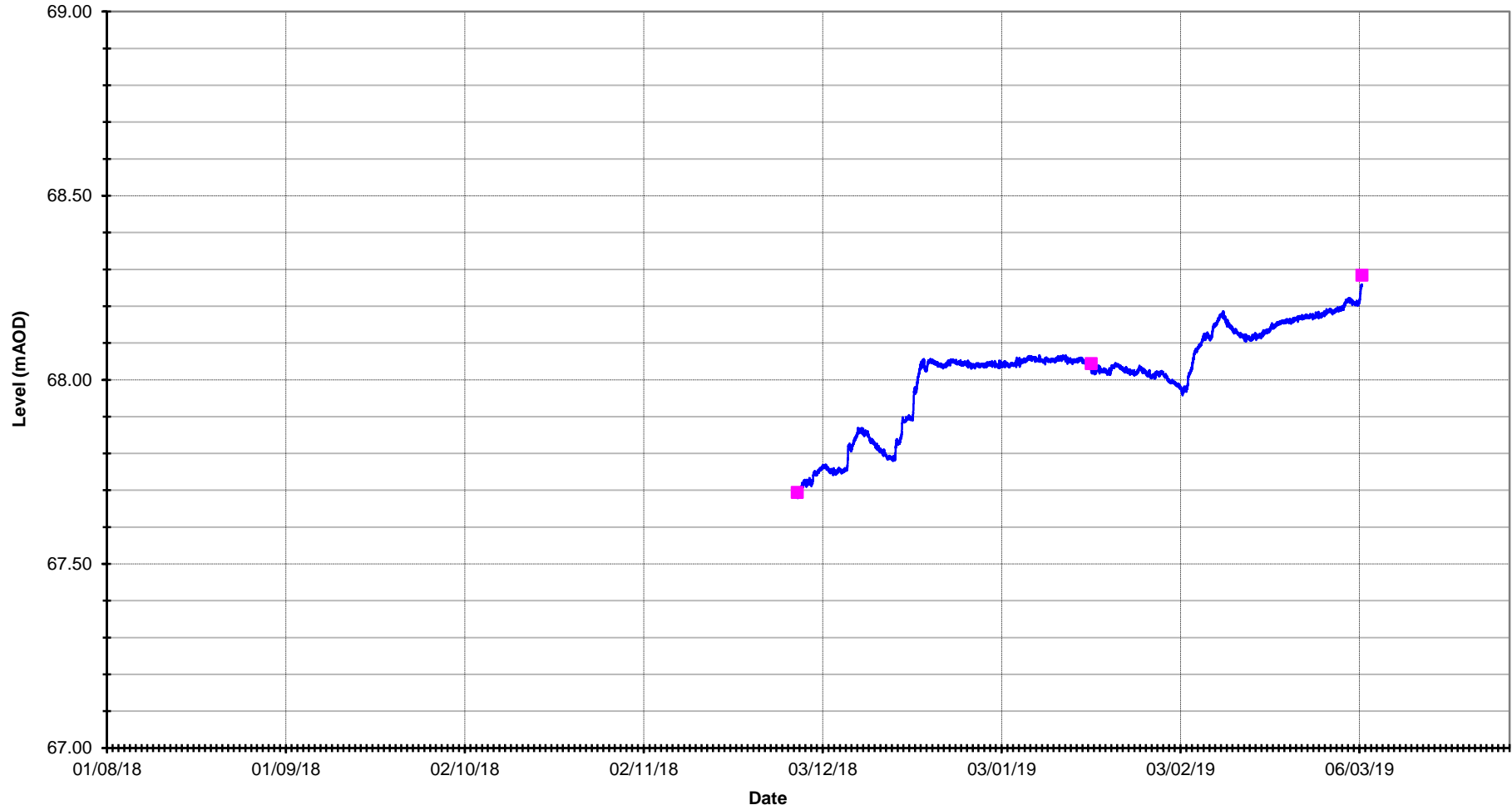
### WS03

— WS03    ■ Manual Dips



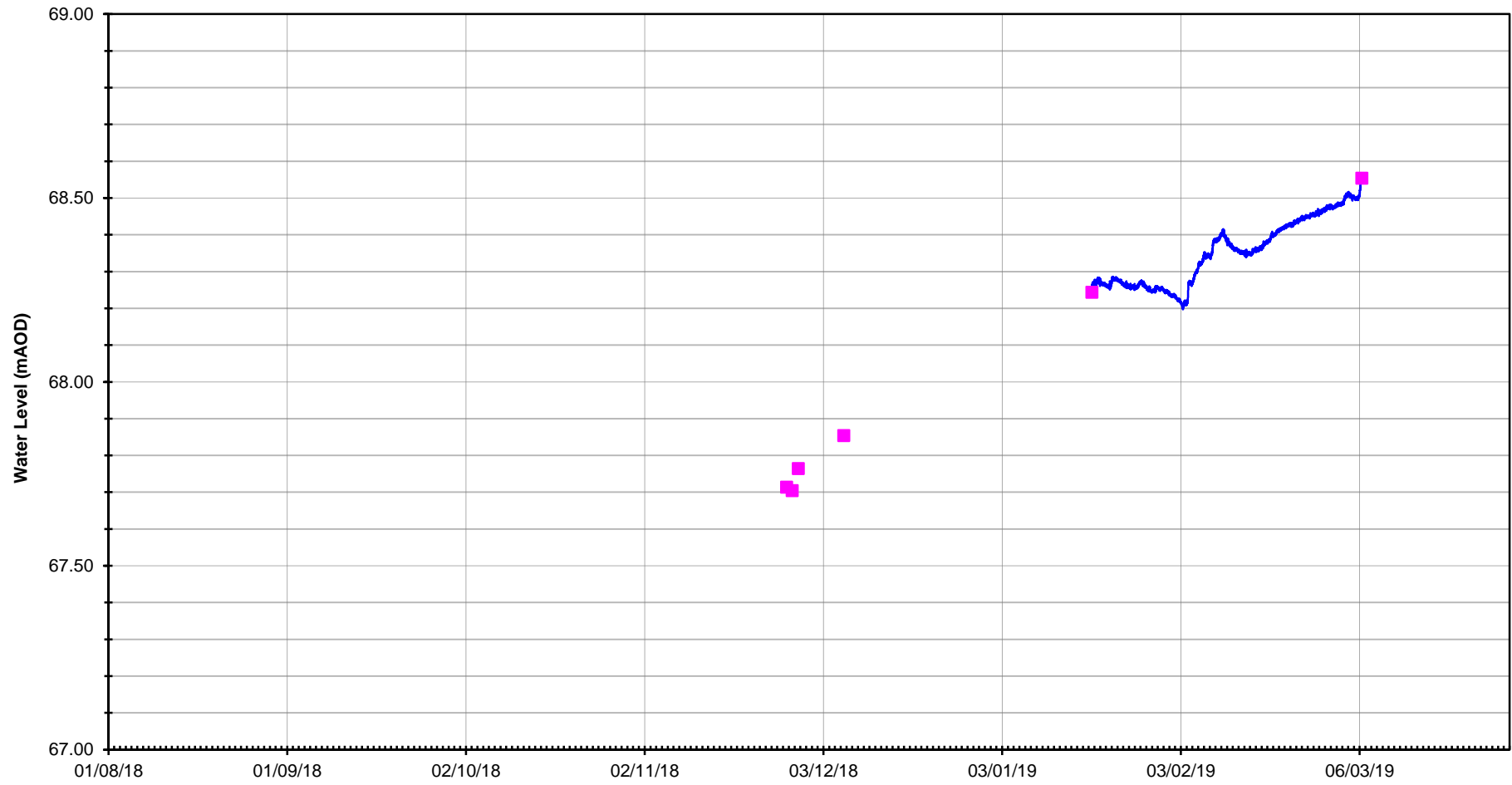
### WS05

— Logger Data    ■ Manual Dips



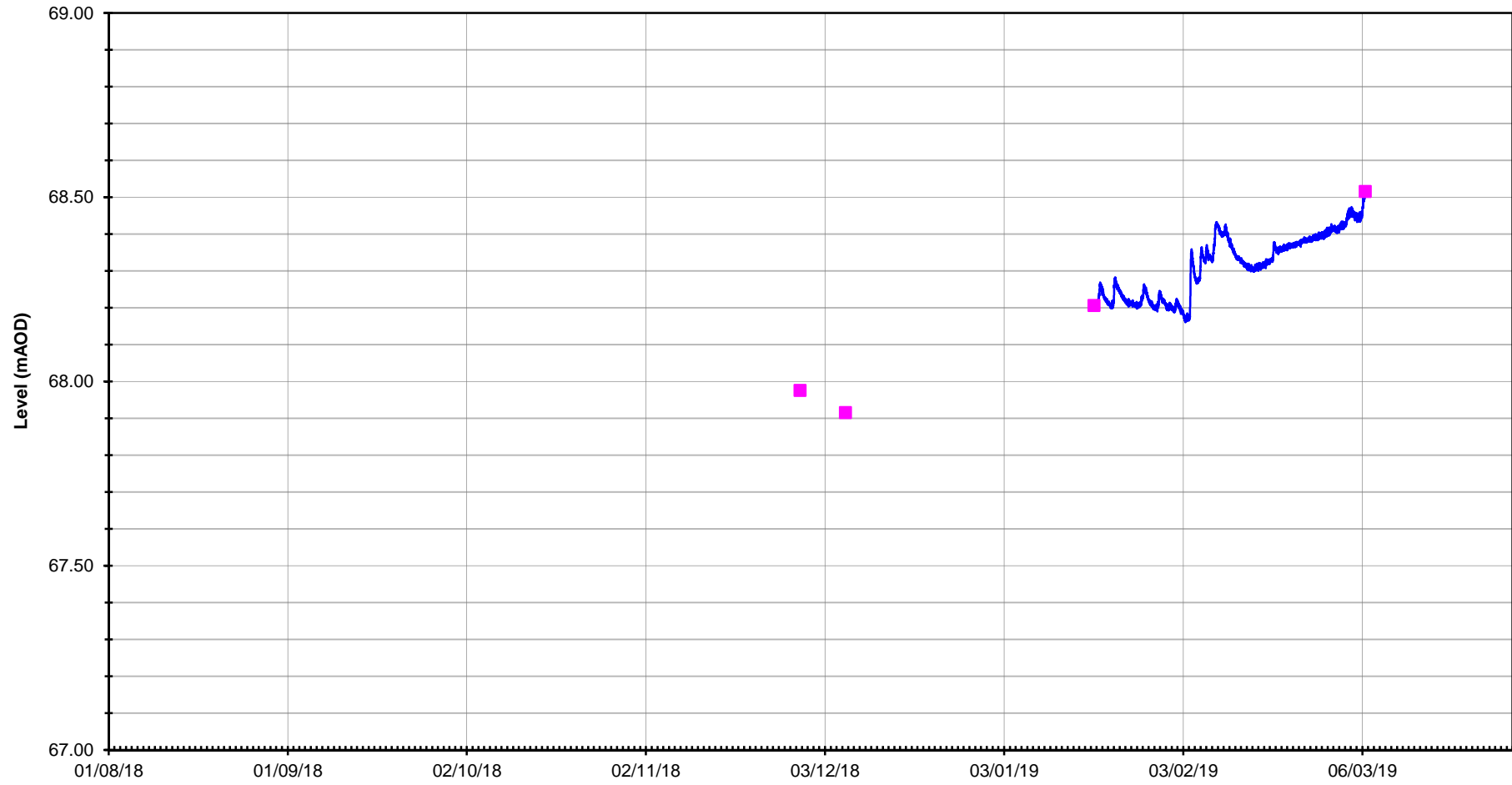
# WS09

■ Manual Dips



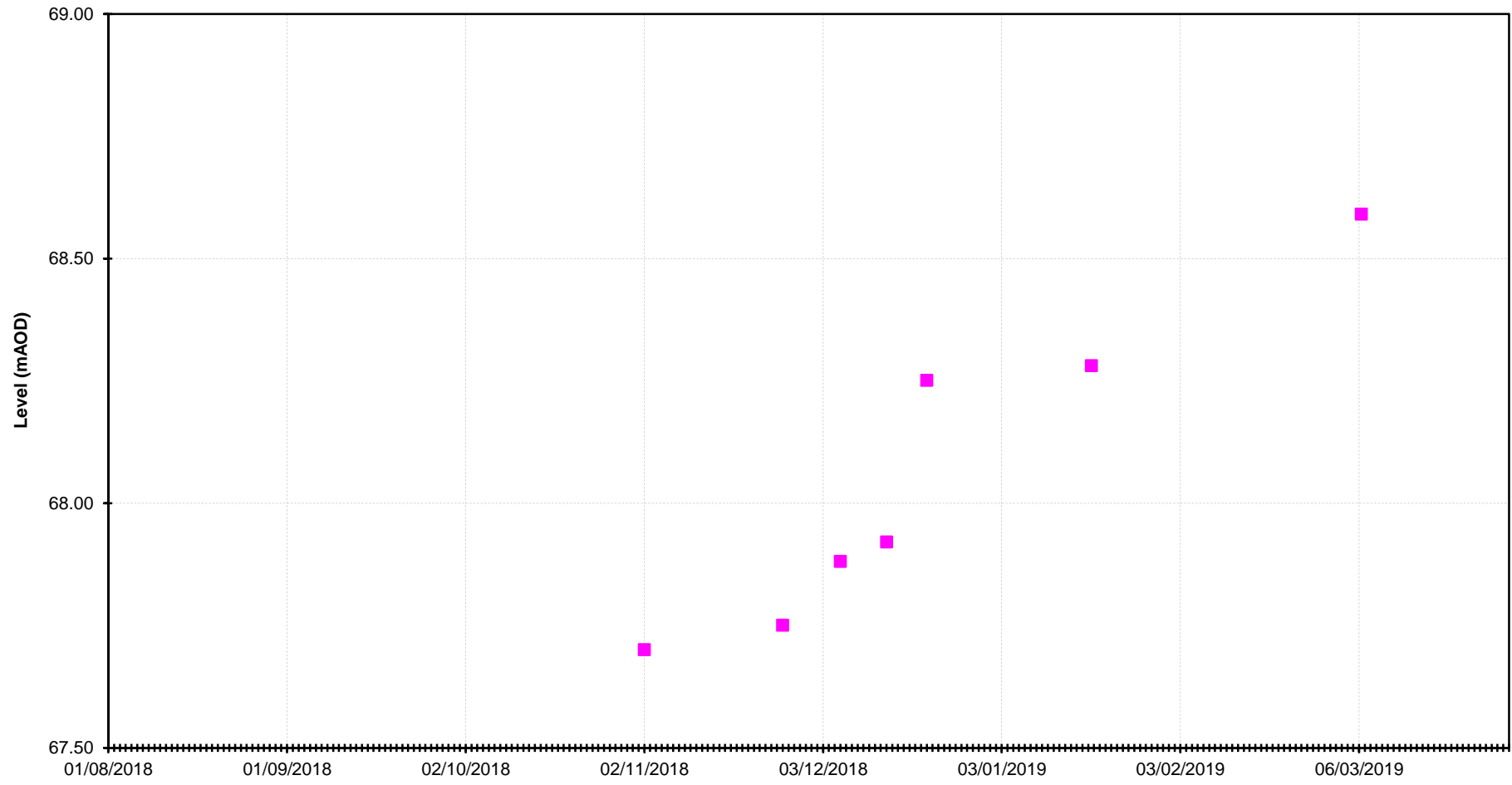
# WS10

■ Manual Dips



### Open Pit

■ Manual Dips



# Blick Mead Logger Data

