



Baseline Monitoring, Nolan Project, Southern Basins, N.T. February 2014

Field Trip Report for Arafura Resources Limited Groundwater Monitoring Northern Burt Basin

This report has been prepared by hydrogeological consultants, Centreprise Resource Group Pty Ltd, February 2014. This report covers the activities performed by Centreprise Field Assistants measuring the standing water levels of bores on Aileron Station.

Centreprise graduate Environmental Scientist Brody Smith completed the Baseline Monitoring run on Wednesday the 19th of February, recording all standing water levels in the southern basins.

Report: Brody Smith February 2014



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The Survey

Nine (9) bores were surveyed and had their standing water levels measured. The survey covered an area of approximately 1600 square kilometres over the catchments south of the Ti Tree Basin.

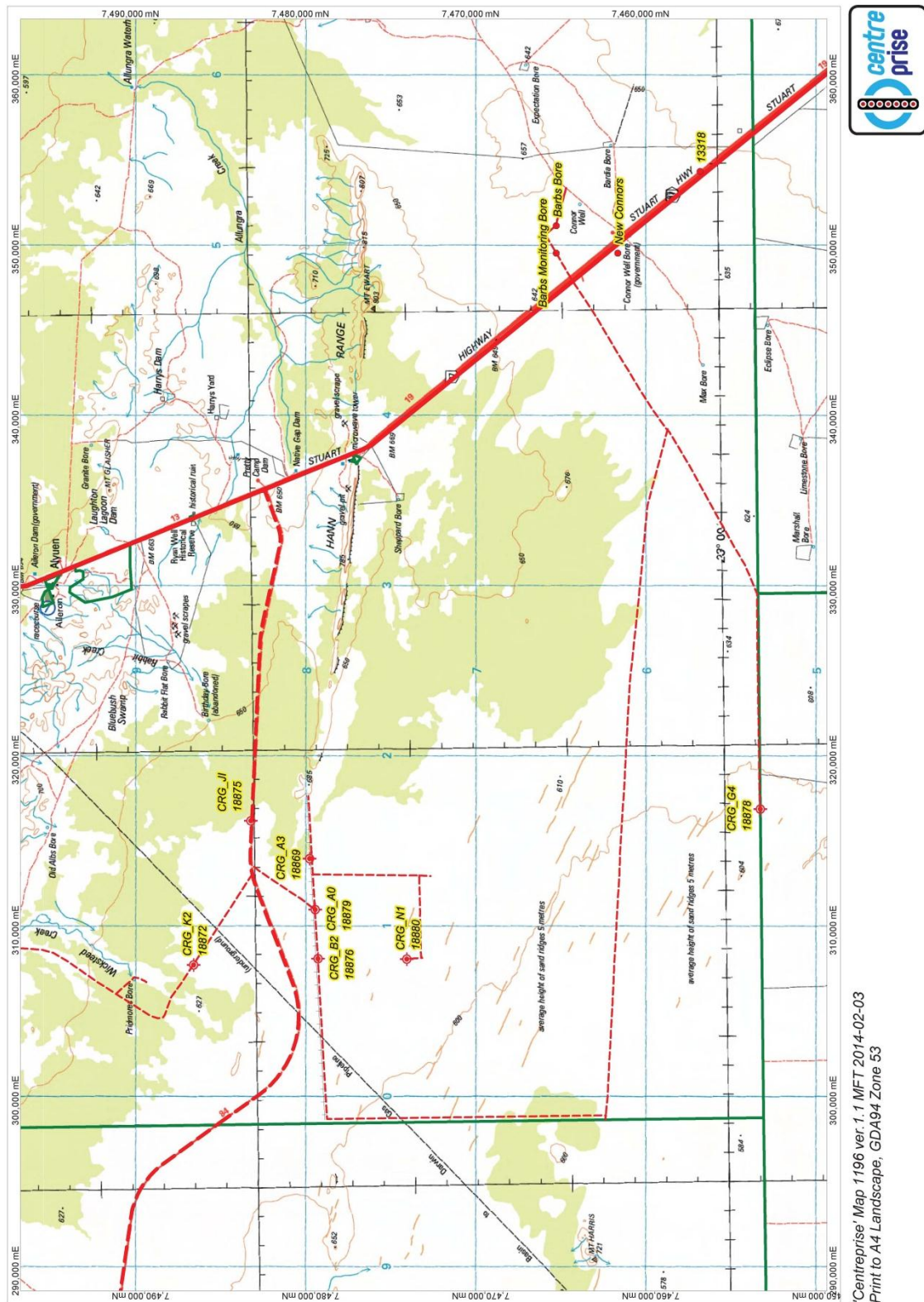
The total distance travelled was 450 kilometres including driving between Alice Springs and Aileron and return. All the tracks on Aileron Station were bush tracks which have been previously cleared and graded some time ago.

The team used a Toyota 4 x 4 land cruiser and stayed overnight for one night at Aileron Roadhouse.

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Location of Bores

Map 1 – Stage 1 Bores Northern Burt Basin Centreprise Map 1196



'Centreprise' Map 1196 ver. 1.1 MFT 2014-02-03
Print to A4 Landscape, GDA94 Zone 53

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Standing Water Levels – February 2014

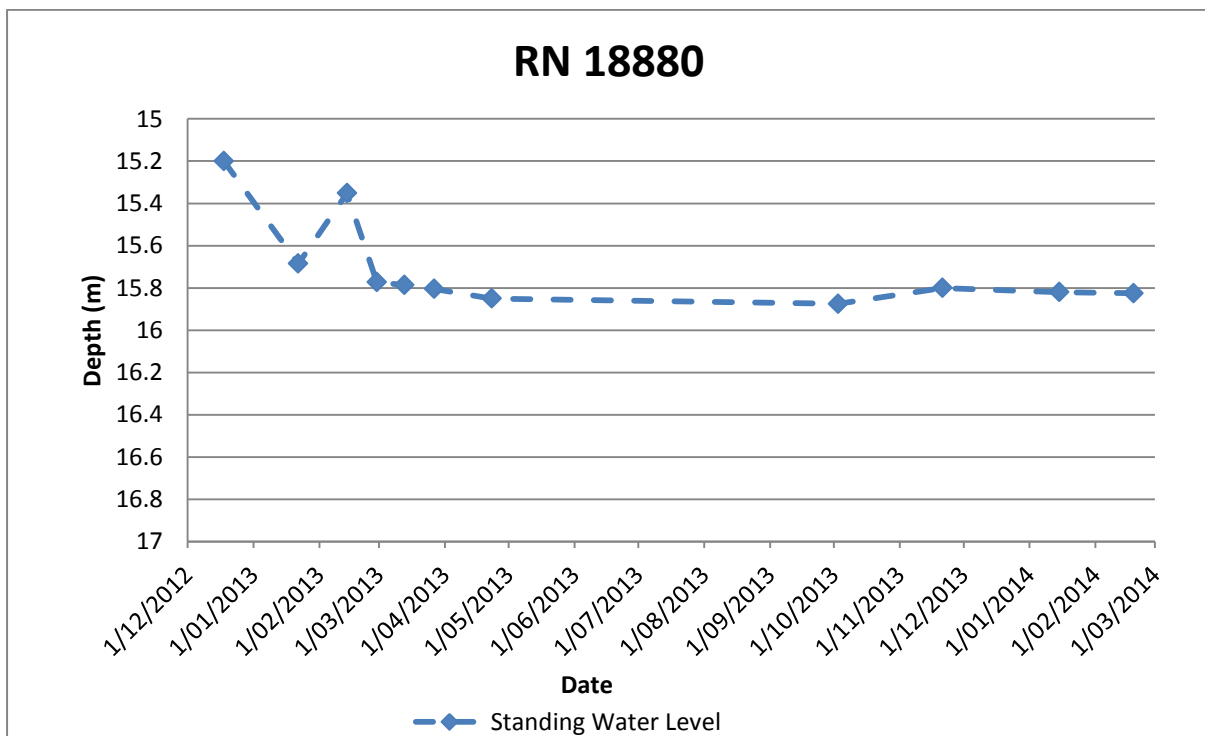
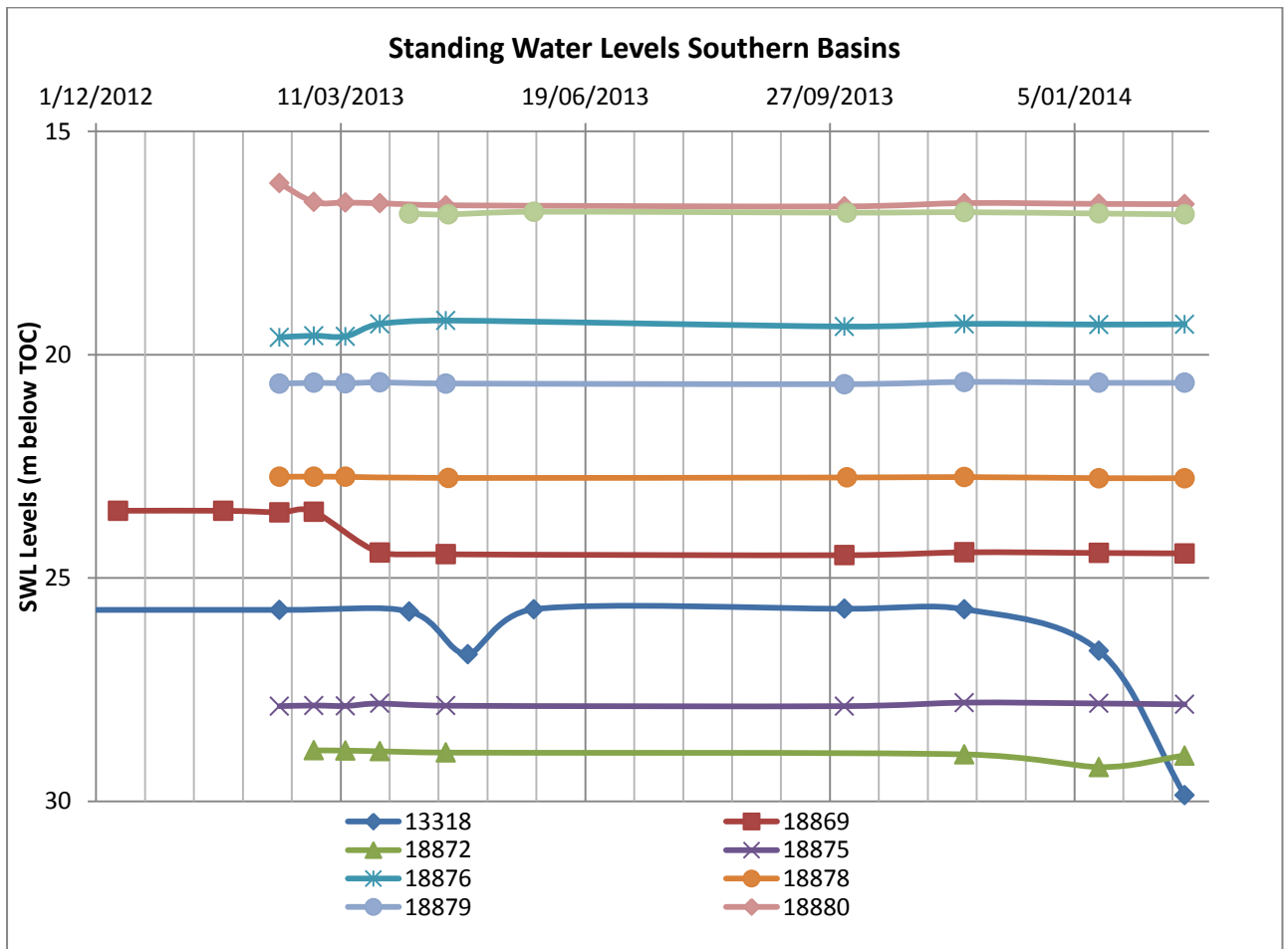
Bore RN	Bore Name	Date	Time	SWL (m)	Method	Who	Measured From
13318	Roads Bore	19/02/2014	14:40	26.86	Sounder	BS	TOC
18869	A3	19/02/2014	11:40	24.45	Sounder	BS	TOC
18875	J1	19/02/2014	12:20	27.83	Sounder	BS	TOC
18876	B2	19/02/2014	11:55	19.32	Sounder	BS	TOC
18878	G4	19/02/2014	13:45	22.765	Sounder	BS	TOC
18879	A0	19/02/2014	12:05	20.63	Sounder	BS	TOC
18880	N1	19/02/2014	11:00	16.63	Sounder	BS	TOC
18872	K2	19/02/2014	10:15	28.975	Sounder	BS	TOC
	Barbs Monitoring	19/02/2014	13:00	16.86	Sounder	BS	TOC

Abbreviations:

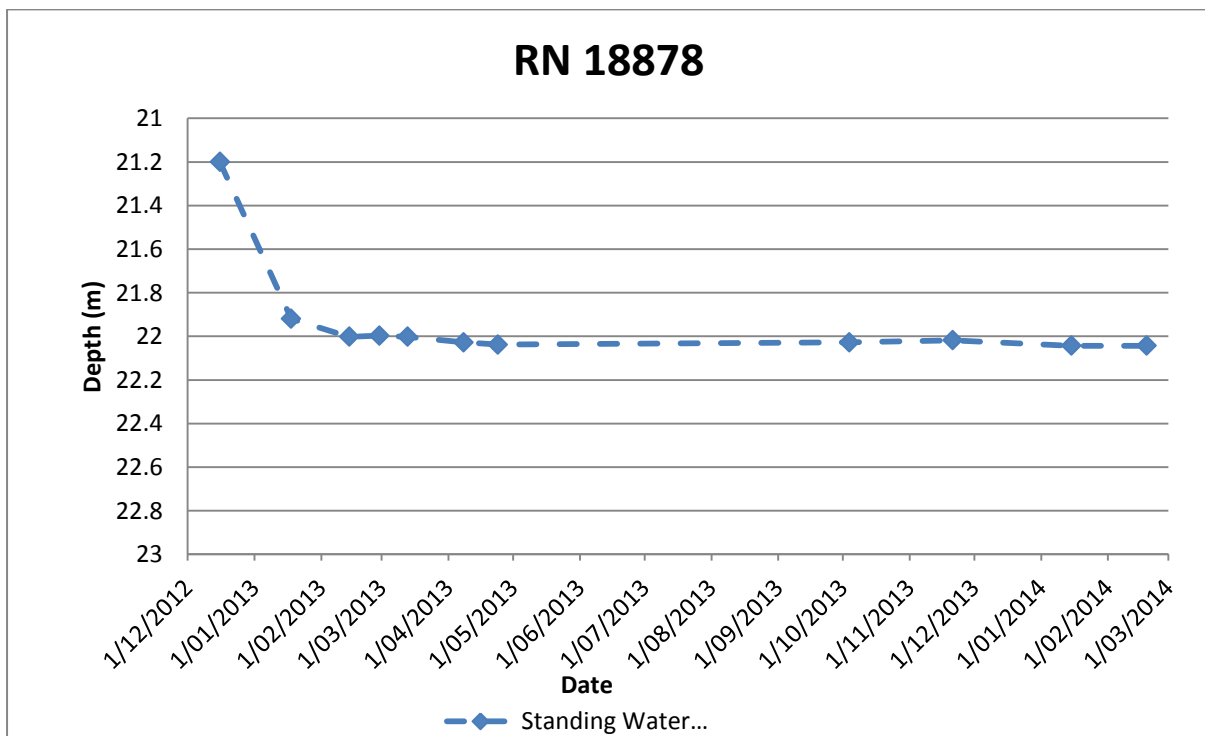
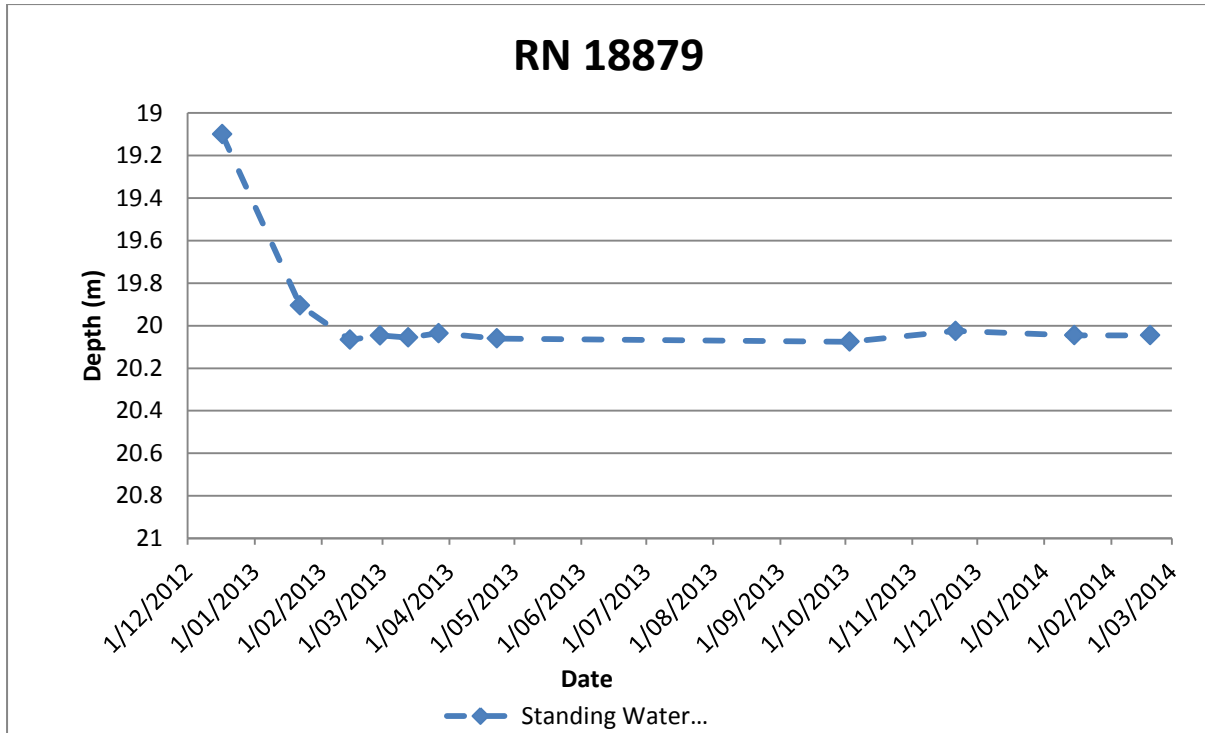
- RN: Bore Registered Number
- Bgl: Below ground level
- TOC: Top of casing

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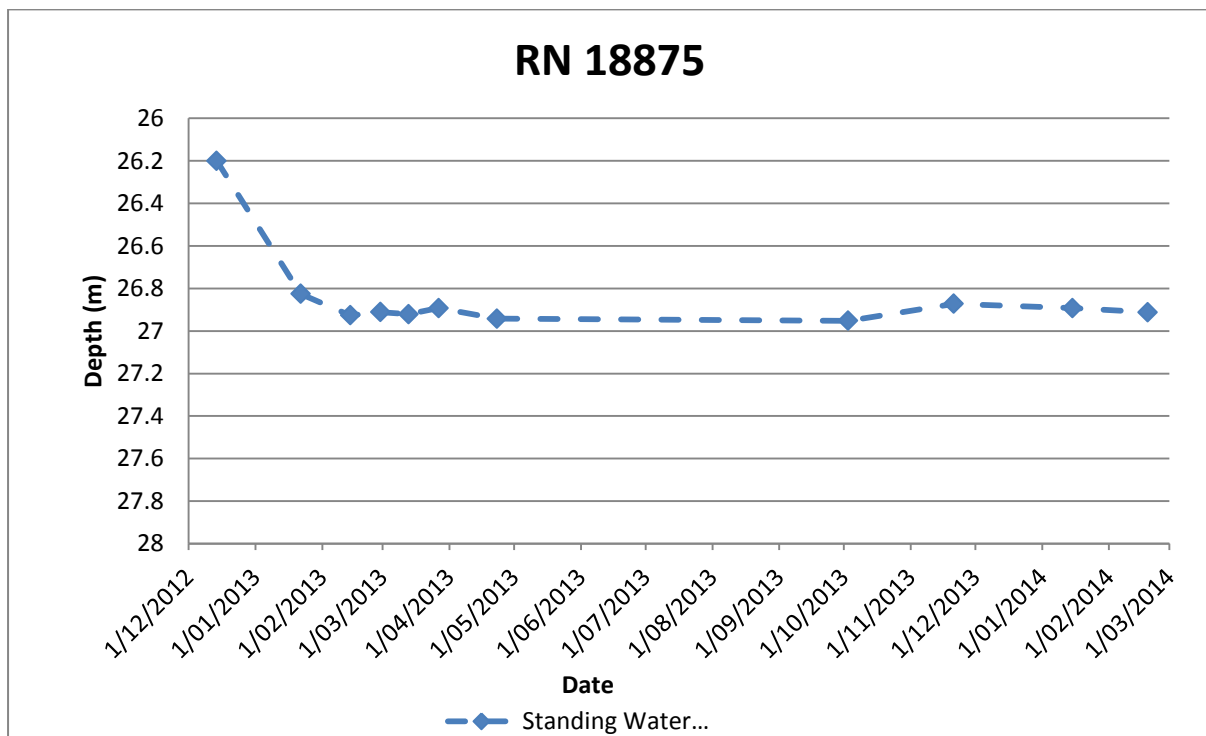
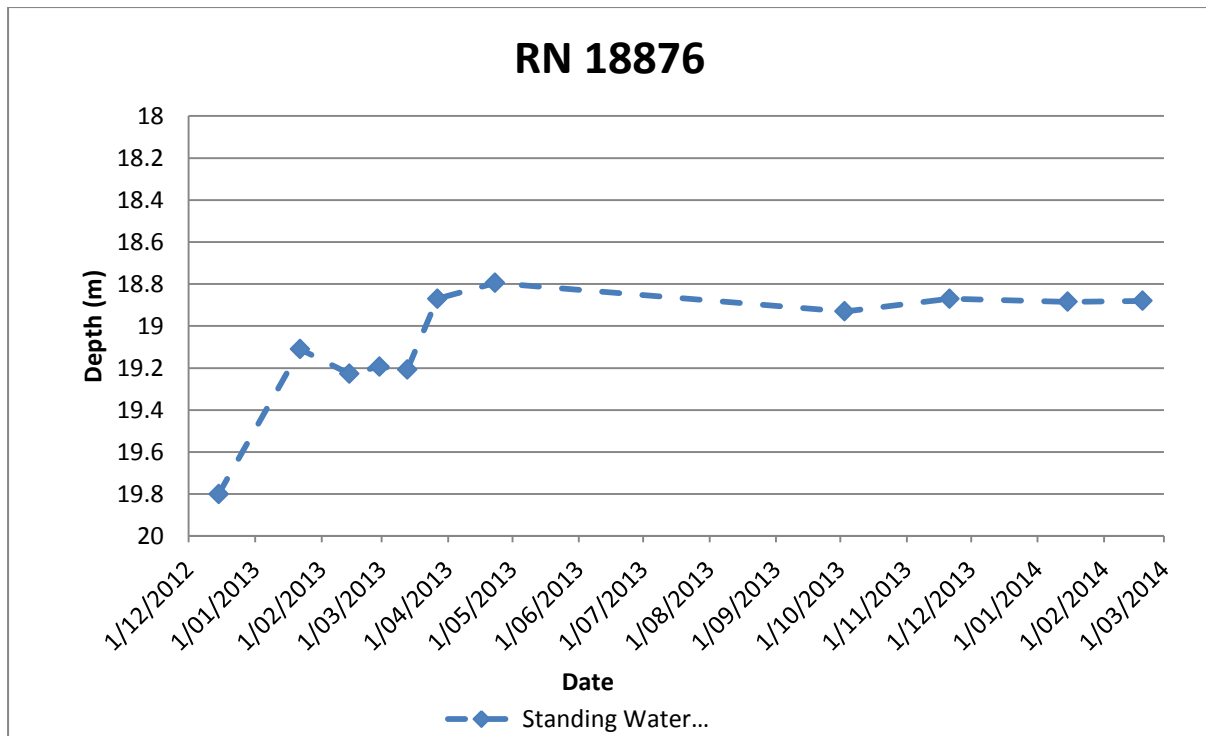
Graphs on previous standing water levels – February 2014



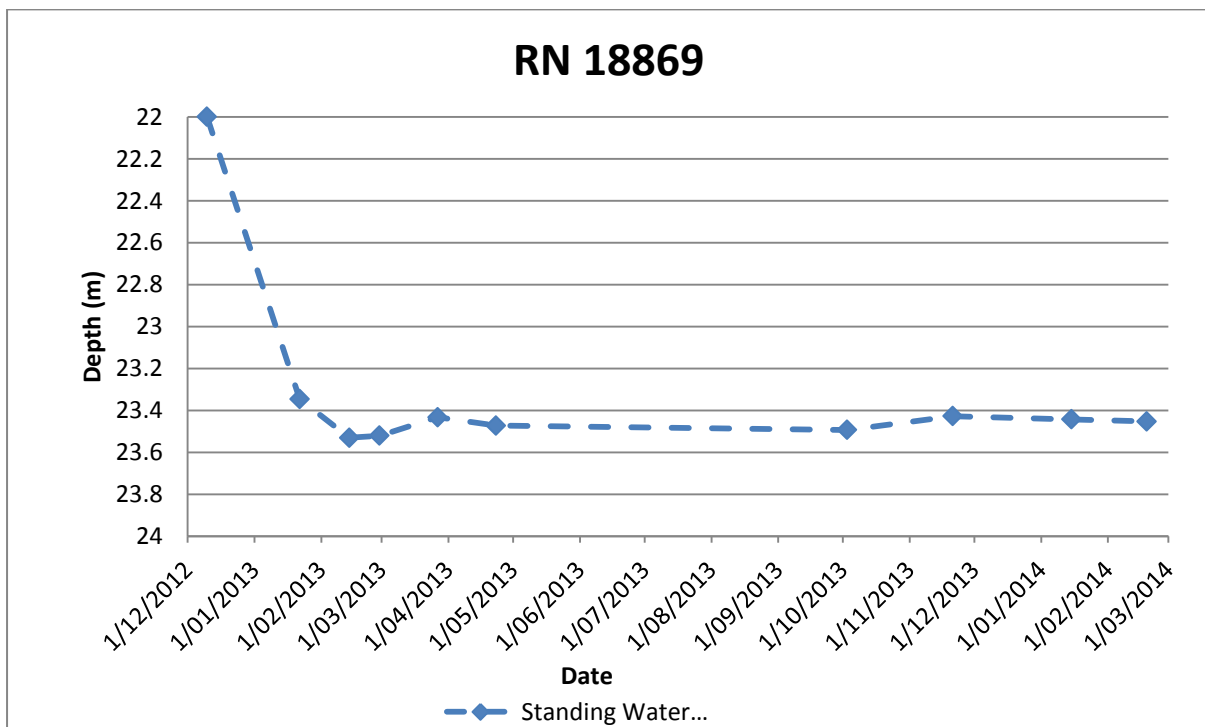
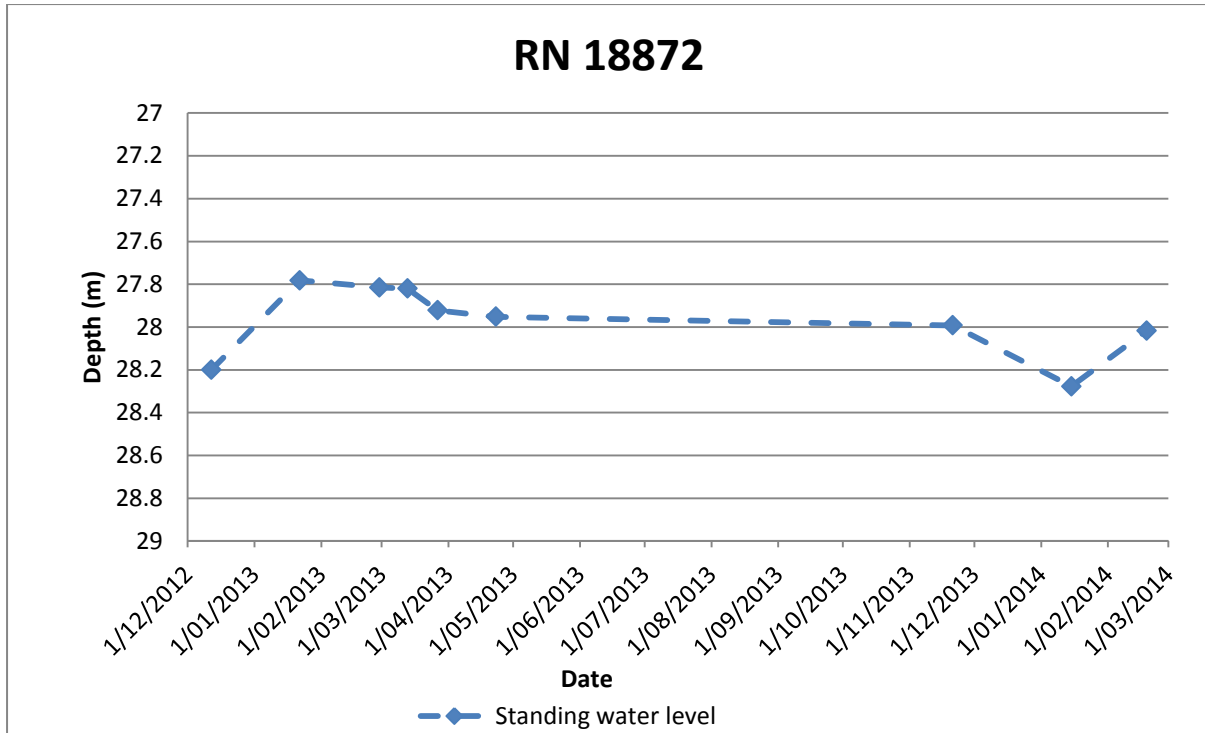
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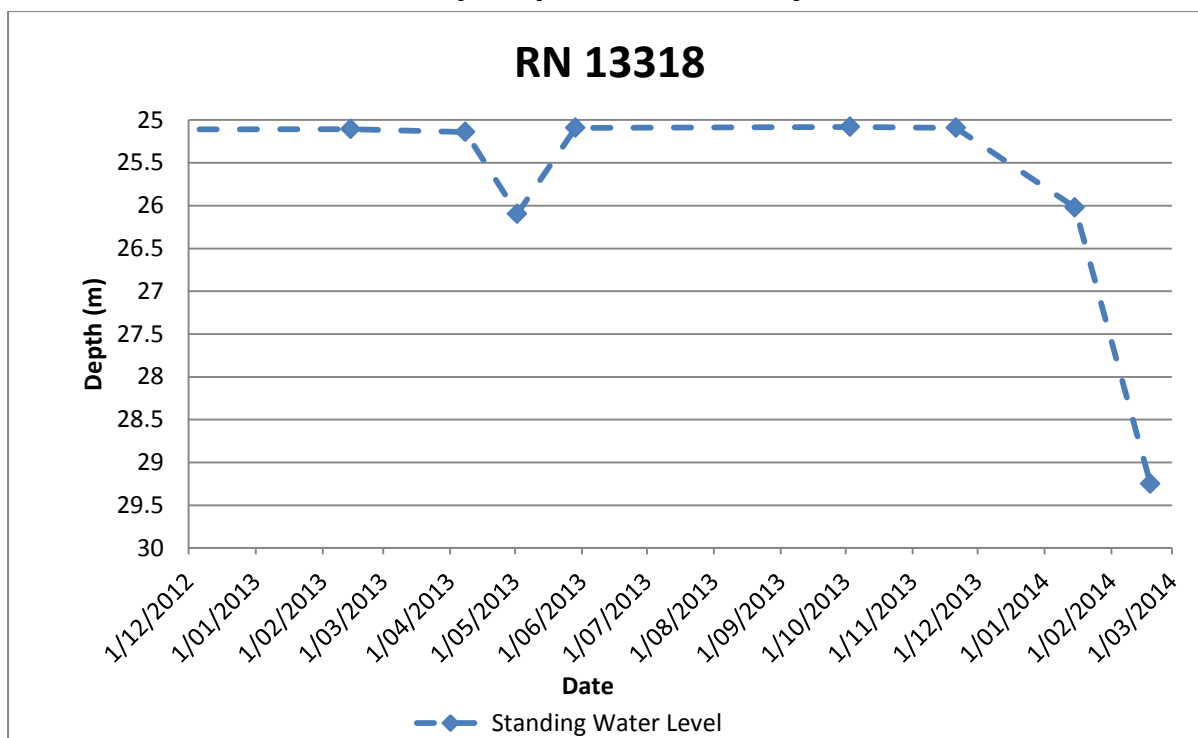
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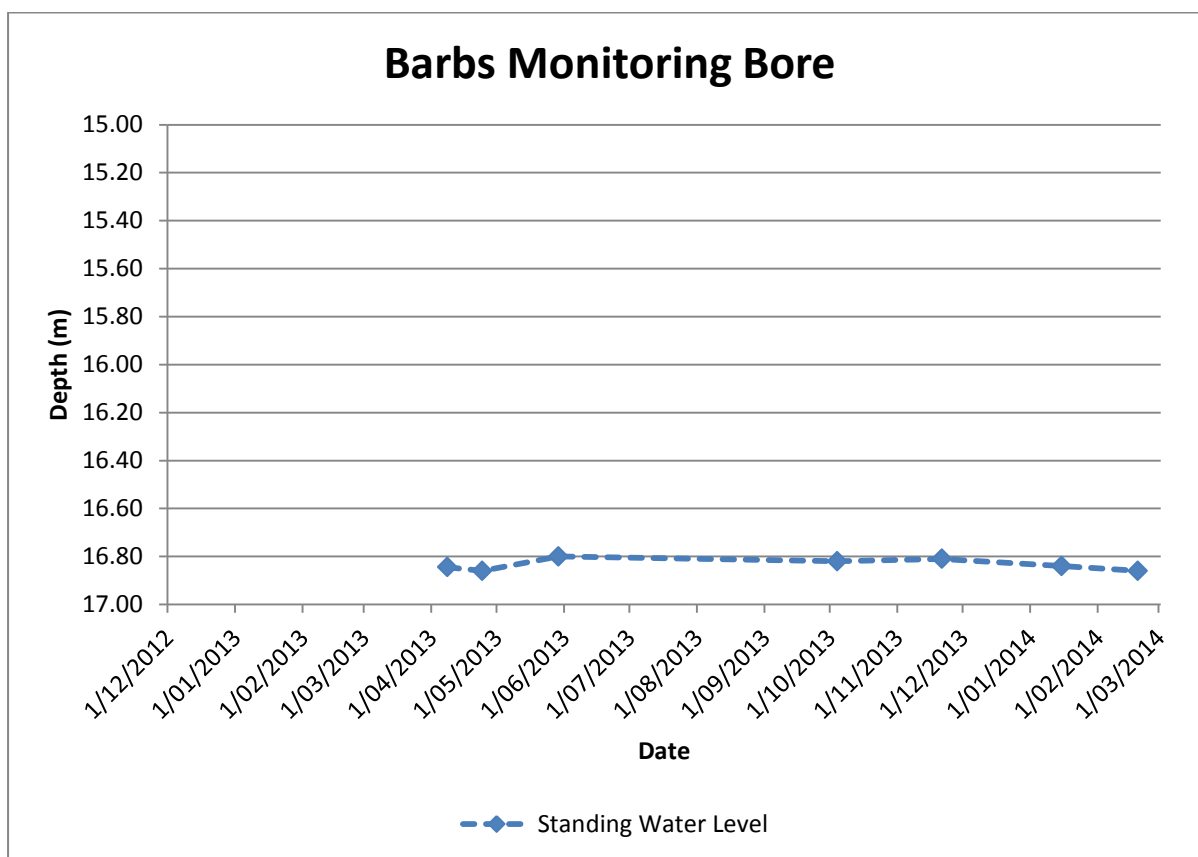
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Note: RN 13318 was being pumped by NT roads workers when standing water level was measured.



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Appendix 1- Methodology

1. Once bore is located, the cap on the bore is to be removed carefully
2. The sounder is gently placed down the bore then unwound until it sounds, which indicates it has reached the standing water level.
3. To identify the standing water level, the field assistants must place the measuring tape from the sounder against the measuring point.
4. Once standing water level is determined, information is recorded in field trip books

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