

Whitehaven Vickery Extension Project Community

Consultative Committee

Date: 6 February 2025

Venue: WHC Boardroom, Gunnedah Conadilly Street, Gunnedah, 2380 and Zoom

Invitees	
<p>Community Representatives</p> <p>Keith Blanch, Community Representative (KB)</p> <p>Grant McIlveen, Community Representative (GM)</p> <p>Narrabri Shire Council</p> <p>Cr Ethan Towns, Councilor (ET)</p> <p>Cr Brett Dickinson, Councilor (BD)</p> <p>Gunnedah Shire Council</p> <p>Cr Cameron Moore, Councilor (CM)</p>	<p>Whitehaven Coal</p> <p>Harry Mills, Environmental Advisor (HM)</p> <p>Megan Martin, Environmental Superintendent (MM)</p> <p>Darren Swain, General Manager Community Engagement (DS)</p> <p>Independent Chairperson</p> <p>Professor Roberta Ryan (RR)</p> <p>Minute taker</p> <p>Isa Crossland Stone (ICS)</p>
Apologies	
<p>Matthew Sparkes, Manager Operations Whitehaven Vickery (MS)</p> <p>Jabin de Keizer, Community Relations Manager Whitehaven (JdK)</p> <p>Wade Hudson, Manager Development Assessment (WH)</p> <p>Barry Thompson, Community Representative (BT)</p>	

Item	Description	Action
1	Welcome, agenda, apologies, declarations - RR	
	<p>RR introduces herself and welcomes all attendees.</p> <p>All attendees make their introductions.</p> <p>CM introduces himself; he is a Councilor at the Gunnedah Shire Council.</p> <p>BD introduces himself; he is a Councilor at the Narrabri Shire Council.</p>	

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	<p>ET introduces himself; he is a Councilor at the Narrabri Shire Council.</p> <p>MM endorses the minutes of the previous meeting.</p> <p>RR gives her thanks.</p>	
2	Actions arising	
	<p>1. Group to discuss whether a ToR document should be drafted for the CCC.</p> <p>This will be carried over to the next meeting for ongoing discussion.</p> <p>2. GM would like clarification from the Narrabri Shire Council representatives on the following:</p> <p>(a) How much money has the Council received in the past 20 years through VPAs and one-off payments associated with the mining industry. BD says that all VPA agreements are published on the Council’s website, so can be accessed there.</p> <p>BD is unaware at this stage as to where this us up to, but he has forwarded this on to council and will provide a response offline as soon as possible.</p> <p>(b) How much money has been invested back into Boggabri within this past 20-year period.</p> <p>BD has forwarded this to the council and will provide a response offline as soon as possible.</p> <p>(c) How much interest has been earned on the \$3.2 million contributed to the Council by the Vickery Coal mine.</p> <p>BD has forwarded this on to council and will provide a response offline as soon as possible.</p>	<p>Group to discuss whether a ToR document should be drafted for the CCC.</p> <p>On behalf of the Narrabri Shire Council, BD to provide a response to GM on the following questions ASAP:</p> <p>(a) How much money the Council has received in the past 20 years through VPAs and one-off payments associated with the mining industry. BD says that all VPA agreements are published on the Council’s website, so can be accessed there.</p> <p>BD is unaware at this stage as to where this us up to, but he has forwarded this on to council and will provide a response offline as soon as possible.</p> <p>(b) How much money has been invested back into Boggabri within this past 20-year period.</p> <p>BD has forwarded this on to council and will provide a response offline as soon as possible.</p> <p>(c) How much interest has been earned on the \$3.2 million contributed to the</p>

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		<p>Council by the Vickery Coal mine.</p> <p>BD has forwarded this on to council and will provide a response offline as soon as possible.</p> <p><i>To be carried forward by MM offline:</i></p> <p><i>MM to be in touch with RR when the MOD1 response to submissions is available, early in 2025. RR will share it with the group.</i></p> <p><i>MM/JdK to draft a CCC recruitment advert and share it with RR before distribution.</i></p>
3	Environmental Report - HM	
	<p>HM presents the Vickery Environmental Report, which are attached to these minutes.</p> <p>RR asks whether there has been much community feedback on notifications around blasting, including complaints.</p> <p>MM says that there has been one complaint in relation to community notifications of blasting, and this was raised by a resident who had not received the notification via text.</p> <p>There have been no community complaints in relation to traffic or road closures.</p> <p>MM notes that the Whitehaven Response to Submissions for MOD1 has been submitted and will be available on the DPE's Major Projects website. MM will provide a link to this page via ICS.</p> <p>RR asks about the tyre disposal process, which, in HM's presentation, is noted as one of the areas of concern expressed through submissions.</p> <p>MM explains the process of laying down waste tyres and depositing overburden over the top of the tyres. This is a standard practice for other mines and is part of the MOD1 document submitted by Whitehaven.</p>	

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	<p>They are still waiting for an assessment by the DPHI and an outcome of the approval.</p> <p>MM notes that there are few feasible options for disposing of tyres in NSW. It is easier to recycle light vehicle tyres, but only trials currently underway for heavy vehicle tyre recycling.</p> <p>KB asks about the dust storm that happened yesterday in Gunnedah. How do the wind monitors respond to instances like this?</p> <p>HM agrees that yesterday's dust storm was significant. He explains that the OCE on site recommended that all activity on the site should stop for the afternoon, in order to avoid the monitors picking up extra high levels. The whole Vickery site was shut down for a few hours.</p> <p>KB notes a recent instance where there were hundreds of mini tornados visible on his farm. He supposes that events like this are picked up quite strongly by the dust monitors on site.</p> <p>HM says yes. Often in these more unusual cases, the dust monitors record an extremely high reading.</p> <p>RR asks MM about the road realignment mentioned in her presentation. Which Council is this portion of the road located in?</p> <p>MM explains that it is in both Council LGA boundaries. The Councils have of course gone through the process of providing their submissions on this.</p> <p>RR asks MM if most employees at the site currently are local residents.</p> <p>MM says that she is not able to provide an exact ratio, but there is a large portion of local employees. For employees who live more than 50km away, there is a condition to live at the Whitehaven camp.</p>	
4	Community Update - DS	
	<p>DS presents the Whitehaven Vickery community update, which is attached to these minutes.</p> <p>MM asks DS when the current round of funding will finish.</p> <p>DS says that the current round will be open for another approximately 1 week. The funding period generally lasts approximately 1 month, and occurs 4 times per year.</p>	
5	Other business	

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GM asks MM about the construction of the proposed pipelines.

MM says that there are two pipelines to external sources of water proposed in the MOD1 submission.

GM asks about the ten bores planned to be constructed in the bore field.

MM says that they have been approved, but they have not started the process of planning their locations or constructing them.

KB asks about Whitehaven's offset activity and raises some concerns.

The perspectives shared by KB in the meeting were consolidated later offline in the following words, drafted by him for the purpose of these minutes:

Firstly, I am not pointing the finger at Whitehaven because perhaps the government is forcing their hand regarding Biosecurity and offsets. I am concerned that tree planting for offsets is taking place on good alluvial farming land.

Could you tell me where, in the Maules and Vickery EIS, does it state that tree planting is to be on good farming land?

The property Wean, joining Vickery is 4,500 acres. A third of Wean is fenced off for biosecurity. Where I see no evidence of tree planting, which would have been the perfect place for trees as the soils are not as good as the farming land.

The next third of Wean, beautiful farming land is also locked up. I lease the last of the country, roughly 1500 acres which we farm and fatten cattle.

There was notification of a proposal to offset the last of Wean for tree planting, also effecting an area of Flixton property.

This did upset me dearly so being a proposal, we had a meeting with Whitehaven consultants. I walked into that meeting confident I would be able to change their minds but the truth was, it was already well into planning and design stages and too late to reverse the decision.

Whitehaven have spent a lot of money on these lease properties, with new water infrastructure, cattle yards, grain storage and fencing. I never expected the mine would plant trees on productive farmlands. The result being one of our biggest properties, Wean, in the next 5 years will only have 350 acres left. So, there will be no road trains of wheat or cattle leaving this farm in future. Flixton will have 2,400 acres left of its 3,000 in five years to come. I never, in my life, thought we would

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do this to the good farm land in the Wean valley.

I understood that the mines bought land elsewhere for offsets. These farms were the food bowl of Boggabri long before you were here, and the town survived. I am concerned that, in 35 years' time, when mining is finished, due to government guidelines, putting blue ribbon farmland to trees that the towns will die with you. The sad thing is, when meeting with the consultants, once looking at the maps, my son and I asked the question: 'Why couldn't it have gone in this other direction, on less productive ground and having more scope to plant more trees?' The answer was – it could have been a possibility.

My question now is: Is it still too late to change this pathway? I feel that the CCC should be involved in decision making on any Whitehaven mine site in regards to where offset country is decided upon.

GM is supportive of KB's perspective as shared in the meeting and drafted above. He says that acquisition of productive land for offsets is a major stressor for the farming community, who are left in major uncertainty about the future of the land and industry.

DS thanks KB and GM. He says that the proposed biodiversity tree planting on Wean property is linked to Maules Creek Mine, not Vickery and that one part of this issue is the offset country and that the other relates to the new 'nature-positive reforms', which involves revegetating land in order to ensure that a project is not net-neutral but is in fact 'net-nature-positive'.

GM asks about the term of these plans.

DS says that Biodiversity offset land status means in perpetuity and is listed on-title.

DS says that at this stage, the term 'nature-positive reform' condition is not necessarily indefinite and there may be options in the future for grazing, however understands is yet to be determined.

RR says that the issue of post-mining land use remains a complex issue across the State. It is currently a major policy question for the NSW Government, and there may be legislative changes expected in the coming years.

The aspect of offsets can also be complex; particularly in terms of where offset land is located in relation to a project site. In

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<p>some cases, community members prefer to have offset land located close to the site, but this is not always the case.</p> <p>The community perspectives (such as the one KB has brought forward) are important in this discussion and can be of influence.</p> <p>MM re-emphasises the difference between Vickery's offset land and 'nature-positive reform' initiatives.</p> <p>RR reinforces that the key concern here, as brought up by KB, is the impact on productive land and its economic uses.</p> <p>MM makes clear that Whitehaven is very open to community input into discussions over final land use post mining.</p> <p>RR says that this discussion should be continued and will remain an important focus for the CCC.</p> <p>RR will send through some more information on post-mining land use that may be useful.</p> <p>https://www.parliament.nsw.gov.au/committees/inquiries/Pages/inquiry-details.aspx?pk=3046#:~:text=This%20inquiry%20was%20established%20on,NSW%20Parliament's%20YouTube%20channel%20here.&text=No.,-77%20Association%20of</p> <p>This link provides transcripts and U-Tube videos of the hearings there these issues were raised.</p> <p>The current inquiry on post-mining land use is looking for a range of perspectives including community perspectives, and this CCC is a useful space to have this discussion.</p> <p><u>CCC Membership</u></p> <p>Given that community members have has some trouble attending the CCC meetings due to farming and harvest schedules, RR raises again the goal of welcoming new community representatives to the CCC.</p> <p>RR explains that the CCC is a requirement of the Conditions of consent for the mine and that as an Independent Chair her role is to ensure that they meet the requirements of the Approval.</p> <p>She asks for community members to direct any interested potential community representatives to her to organise new membership.</p> <p>RR says that if she does not receive any interest in the coming</p>	
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	<p>month, they will organise advertising for new membership.</p> <p>The link to the CCC Guidelines is pasted here for review. https://www.planning.nsw.gov.au/sites/default/files/2023-02/community-consultative-committee-guideline.pdf</p>	
6	Next meeting	
	<p>The next meeting will be held on May 1.</p> <p>The meeting will be combined with a site visit, which will commence at 9am.</p> <p>ICS and MM will liaise to arrange this.</p>	

Vickery Coal Mine Community Consultative Committee Meeting #21

Quarterly Environmental Monitoring Report
Oct, 2024 – Dec, 2024



Vickery Project

This report has been prepared for the Community Consultative Committee (CCC) meeting to show environmental monitoring performance at Vickery Coal Mine (VCM) for the reporting period from October 2024 to December 2024.

Noise Monitoring

Attended noise was conducted during this period.

Attended noise monitoring was conducted at “Lanreef” (N-AT2) and “Broadwater” (N-AT1) properties once a month during this reporting period. Noise criteria for the mine is 40dB(A) Leq (15 min) during day time and 35dB(A) Leq (15 min) during evening/night time and 52 LA_{max} for instantaneous night readings. Please refer to EPL Monitoring locations map in Appendix B for the location of these monitoring points.

Results below show that noise emissions from the mine did not exceed operational criteria at “Lanreef” or “Broadwater” monitoring locations during the monitoring period.

Table 1 October 2024 Attended Noise Monitoring

Table 4 VCM Operational Noise Monitoring Results Leq(15min) – 28 th October 2024 (Day)								
Location	Time	dB(A), Leq	VCM Contribution dB(A),Leq	Criterion dB(A),Leq	Wind speed (m/s),dir	Stability Class	Identified Noise Sources dB(A),Leq	Exceedance (Yes/No)
N-AT1 / 7	1:50pm	47	IA	40	4.0 / 170	C	Birds (45), wind (42), traffic (32), VCM (IA)	No
N-AT2 / 8	4:08pm	48	IA	40	2.3 / 153	D	Traffic (45), frogs (43), VCM (IA)	No
Table 5 VCM Operational Noise Monitoring Results Leq(15min) – 28 th October 2024 (Evening)								
Location	Time	dB(A), Leq	VCM Contribution dB(A),Leq	Criterion dB(A),Leq	Wind speed (m/s),dir	Stability Class	Identified Noise Sources dB(A),Leq	Exceedance (Yes/No)
N-AT1 / 7	9:27pm	32	IA	35	2.4 / 127	D	Traffic (30), Wind (26), VCM (IA)	No
N-AT2 / 8	8:16pm	42	IA	37	0.5 / 59	E	Frogs (40), Traffic (35), VCM (IA)	No
Table 6 VCM Operational Noise Monitoring Results Leq(15min) – 28 th October 2024 (Night)								
Location	Time	dB(A), Leq	VCM Contribution dB(A),Leq	Criterion dB(A),Leq	Wind speed (m/s),dir	Stability Class	Identified Noise Sources dB(A),Leq	Exceedance (Yes/No)
N-AT1 / 7	10:00pm	30	20	35	1.0 / 267	E	Traffic (28), cattle (25), VCM (20)	No
N-AT2 / 8	11:49pm	38	IA	37	1.7 / 309	E	Traffic (37), frogs (30), VCM (IA)	No
Table 7 VCM Operational Noise Monitoring Results LA _{max} – 28 th October 2024								
Location	Time	dB(A), LA _{max}	VCM Contribution dB(A), LA _{max}	Criterion dB(A), LA _{max}	Wind speed (m/s),dir	Stability Class	LA _{max} Noise Source	Exceedance (Yes/No)
N-AT1 / 7	10:00pm	52	24	52	1.0 / 267	E	Bird	No
N-AT2 / 8	11:49pm	48	IA	52	1.7 / 309	E	Frogs	No

Table 2 November 2024 Attended Noise Monitoring

Table 4								
VCM Operational Noise Monitoring Results Leq(15min) – 26 th November 2024 (Day)								
Location	Time	dB(A), Leq	VCM Contribution dB(A),Leq	Criterion dB(A),Leq	Wind speed (m/s),dir	Stability Class	Identified Noise Sources dB(A),Leq	Exceedance (Yes/No)
N-AT1 / 7	8:08am	47	IA	40	1.6 / 20	D	Birds (43), wind (40), VCM (IA)	No
N-AT2 / 8	10:24am	48	IA	40	6.1 / 310	D	Traffic (41), frogs (40), VCM (IA)	No
Table 5								
VCM Operational Noise Monitoring Results Leq(15min) – 25 th November 2024 (Evening)								
Location	Time	dB(A), Leq	VCM Contribution dB(A),Leq	Criterion dB(A),Leq	Wind speed (m/s),dir	Stability Class	Identified Noise Sources dB(A),Leq	Exceedance (Yes/No)
N-AT1 / 7	9:28pm	30	IA	35	2.1 / 325	E	Wind (29), Traffic (22), VCM (IA)	No
N-AT2 / 8	8:14pm	41	IA	37	2.6 / 334	E	Frogs (38), Traffic (36), VCM (IA)	No
Table 6								
VCM Operational Noise Monitoring Results Leq(15min) – 25 th November 2024 (Night)								
Location	Time	dB(A), Leq	VCM Contribution dB(A),Leq	Criterion dB(A),Leq	Wind speed (m/s),dir	Stability Class	Identified Noise Sources dB(A),Leq	Exceedance (Yes/No)
N-AT1 / 7	10:01pm	29	IA	35	2.9 / 329	E	Wind (28), Traffic (22), VCM (IA)	No
N-AT2 / 8	11:51pm	34	IA	37	2.5 / 358	E	Traffic (31), frogs (30), VCM (IA)	No
Table 7								
VCM Operational Noise Monitoring Results LA _{max} – 25 th November 2024								
Location	Time	dB(A), LA _{max}	VCM Contribution dB(A), LA _{max}	Criterion dB(A), LA _{max}	Wind speed (m/s),dir	Stability Class	LA _{max} Noise Source	Exceedance (Yes/No)
N-AT1 / 7	10:01pm	54	IA	52	2.9 / 329	E	Birds	No
N-AT2 / 8	11:51pm	56	IA	52	2.5 / 358	E	Birds	No

Table 3 December 2024 Attended Noise Monitoring

Table 4								
VCM Operational Noise Monitoring Results Leq(15min) – 23rd December 2024 (Day)								
Location	Time	dB(A), Leq	VCM Contribution dB(A),Leq	Criterion dB(A),Leq	Wind speed (m/s),dir	Stability Class	Identified Noise Sources dB(A),Leq	Exceedance (Yes/No)
N-AT1 / 7	1:11 pm	53	IA	45	6.4 / 263	B	Wind (53), VCM (IA)	No
N-AT2 / 8	3:28 am	55	IA	45	7.2 / 248	B	Wind (55) VCM (IA)	No

Table 5								
VCM Operational Noise Monitoring Results Leq(15min) – 23rd December 2024 (Evening)								
Location	Time	dB(A), Leq	VCM Contribution dB(A),Leq	Criterion dB(A),Leq	Wind speed (m/s),dir	Stability Class	Identified Noise Sources dB(A),Leq	Exceedance (Yes/No)
N-AT1 / 7	9:26 pm	48	IA	40	5.1 / 225	C	Wind (48), VCM (IA)	No
N-AT2 / 8	8:14 pm	46	IA	42	4.3 / 241	C	Wind (45), Traffic (37), VCM (IA)	No

Table 6								
VCM Operational Noise Monitoring Results Leq(15min) – 23rd December 2024 (Night)								
Location	Time	dB(A), Leq	VCM Contribution dB(A),Leq	Criterion dB(A),Leq	Wind speed (m/s),dir	Stability Class	Identified Noise Sources dB(A),Leq	Exceedance (Yes/No)
N-AT1 / 7	10:00 pm	39	IA	40	3.6 / 236	D	Wind (39), VCM (IA)	No
N-AT2 / 8	11:43 pm	44	IA	42	4.3 / 225	D	Wind (44) Traffic (33), VCM (IA)	No

Table 7								
VCM Operational Noise Monitoring Results LAmax – 23rd December 2024								
Location	Time	dB(A), LAmax	VCM Contribution dB(A), LAmax	Criterion dB(A), LAmax	Wind speed (m/s),dir	Stability Class	LAmax Noise Source	Exceedance (Yes/No)
N-AT1 / 7	10:00 pm	48	IA	57	3.6 / 236	D	Birds	No
N-AT2 / 8	11:43 pm	53	IA	57	4.3 / 225	D	Wind	No

The real time noise monitor located on the “Long Way Round” property remains a management tool, so the noise criteria are not applicable at that site. Levels of noise recorded at that location are managed according to the noise management plan and trigger action response plan.

An additional real time noise monitor has been installed closer to the mine site, at Broadwater property.

Blast Monitoring

Blasting Results

There has been 15 Blasts at VCM from 1st October to 31st December 2024.

The highest recorded overpressure for the reporting period was 109.4dBL recorded at B-02 monitor on the 24/10/2024.

The highest recorded ground vibration for the reporting period was 2.22mm/s recorded at B-02 monitor on the 21/10/2024.

VCM overpressure and ground vibration for the quarter was compliant and did not exceed the blasting criteria declared in the project approval and Blast Management Plan (BMP). Please refer to EPL Monitoring locations map in Appendix B for the location of these monitoring points.

Table 4 Max Peak Overpressure and Ground Pressure for the Quarter

Monitor Location	Date	Max. Peak Overpressure (dB)	Criterion (dB)	Date	Max. Peak Ground Pressure (mm/s)	Criterion (mm/s)
B-01	24/10/2024	105.9	133	11/10/2024	1.05	10
B-02	24/10/2024	109.4	N/A	21/10/2024	2.22	80
B-03	21/10/2024	103.6	120	21/10/2024	0.53	10

Air Quality Monitoring

Dust Deposition Results

Standard Australia AS/NZS 3580.10.1:2016, "Methods for sampling and analysis of ambient air – Determination of particulate matter – Deposited matter – Gravimetric Method," classifies deposited dust as insoluble solids. Therefore, VCM tests air quality monthly at mine-owned sites for indicative purposes, to infer compliance, against the limit of 4 g/m²/month.

Table 5 shows deposited dust gauge results over 12 months. All dust monitors that are located on project related or WHC owned land; as such compliance criteria (4g/m²/month) do not apply. While deposited dust trends remain steady during the reporting period (refer graph in *Appendix A*), some monitors are displaying non-mine related particulate matter deposition more regularly than others. Non-mine related particulate matter could be attributed to organic matter (such as leaves, mice, frogs, insects or bird faeces that fall in to the bottles), or they may be in farming locations, so during some months dust levels may be higher due to

harvesting. Please refer to Dust Deposition Gauges Monitoring locations map in Appendix B for the location of these monitoring points.

Table 5 Deposited Gauge Results [g/m²/month]

Month	D1	D2	D12	D13B	DG1	DG2	V1	V2	V3	V4	V5
Jan-24	2.7	2.2	2.3	2	14.5	8.2	1.6	2.1	1.9	4.4	3.7
Feb-24	4.3	2.7	1.9	1.1	4.4	6.3	1	1.2	1	1.9	2.3
Mar-24	2.1	1.2	1.2	2.5	1	2	1	2.4	1	4.2	3.5
Apr-24	1.5	0.8	1.3	4.1	0.6	0.8	0.3	0.5	0.6	1.2	2.5
May-24	0.9	1.4	2.1	0.9	1	1.9	0.8	0.7	2.3	1.1	1.8
Jun-24	2.7	0.1	1.2	0.1	0.6	0.3	0.3	0.1	0.1	0.4	0.4
Jul-24	0.4	0.7	0.3	0.4	0.9	0.6	0.6	0.3	1.8	1	0.6
Aug-24	0.5	0.2	0.2	0.2	1.4	0.4	0.9	0.3	6.7	0.5	0.4
Sep-24	1.7	0.4	0.3	0.5	3.1	0.5	0.5	0.5	0.5	0.6	0.4
Oct-24	0.4	0.1	0.2	1	0.7	0.4	0.4	0.6	0.5	1.8	0.5
Nov-24	1.3	0.7	0.9	1	1.6	2.1	0.7	0.2	3.9	1.1	1.3
Dec-24	0.4	0.8	1.8	2	2.5	0.5	2.2	0.7	8.7	1.3	4
Average	1.6	0.9	1.1	1.3	2.7	2.0	0.9	0.8	2.4	1.6	1.8

Real-time Air Monitoring (PM_{2.5} and PM₁₀)

Two real-time air quality monitoring units are located on private property adjacent to the Vickery Coal Mine. PM1 is located at Lanreef and PM2 at Mirrabinda to the south and south-west of the operations. These are used as both a compliance and an operational management tool. Dust levels nearing or reaching the nominated criteria will trigger actions onsite to assess the source of dust and modify operations if it is determined to be related to Vickery operations. Additional air quality monitoring units are located at Wil-gai and Roseberry and these are used for additional information and operational management in accordance with the Vickery Air Quality Management Plan. These units are also associated with other regional operations at Tarrawonga and Rocglen. Please refer to Air Quality Monitoring locations map in Appendix B for the location of these monitoring points.



Figure 1: TEOM installed at Lanreef

Water Monitoring

Groundwater

Routine groundwater monitoring has been conducted 6 monthly since 2021 and quarterly since 2023. In October 2023, Hydra-sleeve monitoring was introduced to Vickery’s groundwater bores. Appendix C contains the Hydrographs for Vickery’s GW bores. Monitoring indicates stable GW levels. Water quality data in a few bores is showing a departure from the interim trigger levels. This will assist to inform the development of the final trigger levels for GW monitoring as described in the Water MP. As mining below the water table has only just begun to occur any triggers of the interim TARP are due to the background levels naturally being different to the generic triggers sourced from external benchmarks. Please refer to Groundwater Monitoring locations map in Appendix B for the location of these monitoring points.

Surface Water

Water storage onsite is expected to be sufficient for at least 12 months. VCM has not undertaken any discharges during the period. Please refer to EPL Monitoring locations map in Appendix B for the location of these monitoring points.

Table 6 Surface Water Results for October, November and December

October	Namoi DS 1	Namoi DS 2	Namoi DS 3	Namoi US
pH	8.57	8.62	8.58	8.64
Electrical Conductivity (µS/cm)	653	659	612	641
TSS	36	22	6	39
Oil & Grease (mg/L)	6	<5	<5	6
November	Namoi DS 1	Namoi DS 2	Namoi DS 3	Namoi US
pH	8.28	8.28	8.12	8.24
Electrical Conductivity (µS/cm)	508	510	511	500
TSS	52	40	36	49
Oil & Grease (mg/L)	<5	<5	<5	<5
December	Namoi DS 1	Namoi DS 2	Namoi DS 3	Namoi US
pH	8.00	8.05	8.11	8.7.89
Electrical Conductivity (µS/cm)	854	860	860	678
TSS	35	30	41	76
Oil & Grease (mg/L)	<5	<5	<5	<5

MWD2	November
pH	8.62
Electrical Conductivity (µS/cm)	1460
TSS	<5
Oil & Grease (mg/L)	<5

VCM has recorded **518.6 mm** of rain for 2024 at our MET 2 weather station.

Table 7 Annual Rainfall

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Monthly Rain (mm)	29.6	34.6	4.8	80.4	39	59	47	58.4	16	53.6	57.8	38.4	518.6
Cumulative (mm)	29.6	64.2	69	149.4	188.4	247.4	294.4	352.8	368.8	422.4	480.2	518.6	

Clearing

Clearing is currently ongoing at Vickery, approximately 560ha have been cleared during FY24. Topsoil and Subsoil is being stored separately in designated stockpiles areas. The stockpiles will be ripped and seeded to maintain viability for rehabilitation.



Figure 2: Updated Image of Topsoil and Subsoil Stockpiles

Complaints

One complaint was received during the reporting period.

This complaint was related to dust. All matters have been resolved satisfactorily.

Approvals

The last Environmental Protection Licence (EPL) Variation was received on the 31st May 2024.

An application to transfer this licence to another WHC owned entity has been submitted and approved. This is for internal WHC administrative purposes. The new holding entity is named 'Vickery Coal Operations Pty Ltd'.

Environmental Management Plans

Approvals

All the currently approved Management Plans are available on the WHC website.

The Noise Management plan has been submitted to DPHI for review and will be finalised following approval.

Air Quality and Greenhouse Gas Management Plan currently being reviewed by Whitehaven.

Biodiversity Management Plan is also currently being reviewed by Whitehaven.

Waste Management Plan is currently being reviewed by Whitehaven

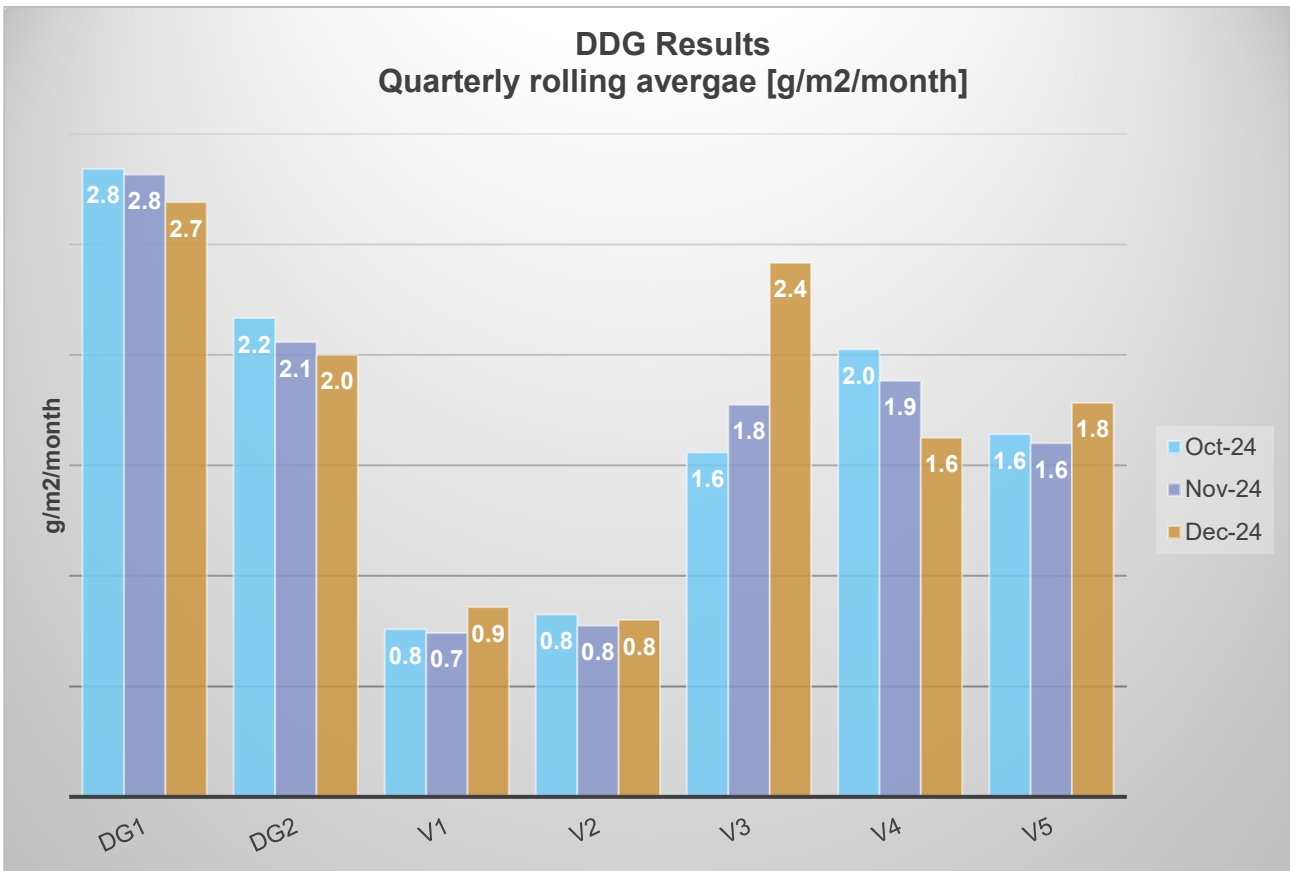
MOD1 was submitted in August 2024 and is at the 'Response to submissions' stage. As described in April 2024 at the CCC meeting this Modification is to:

- amend the Blue Vale Road realignment to a lesser impact;
- to allow the export of gravel from the VEP in line with existing approvals at Tarrawonga and the original Vickery Coal Project (SSD-5000);
- Construction and use of water pipelines from additional existing groundwater bores and to the Rocglen Coal Mine;
- Potential relinquishment of the secondary infrastructure area;
- A temporary access road and additional soil stockpile area;
- Temporary concrete batching plant;
- Disposal of waste heavy vehicle tyres;
- Reduction to the open cut extent and improved waste rock emplacement and landform design;
- Extended ROM coal road haulage hours to align with the Tarrawonga Modification 10; and
- Schedule of Lands update.

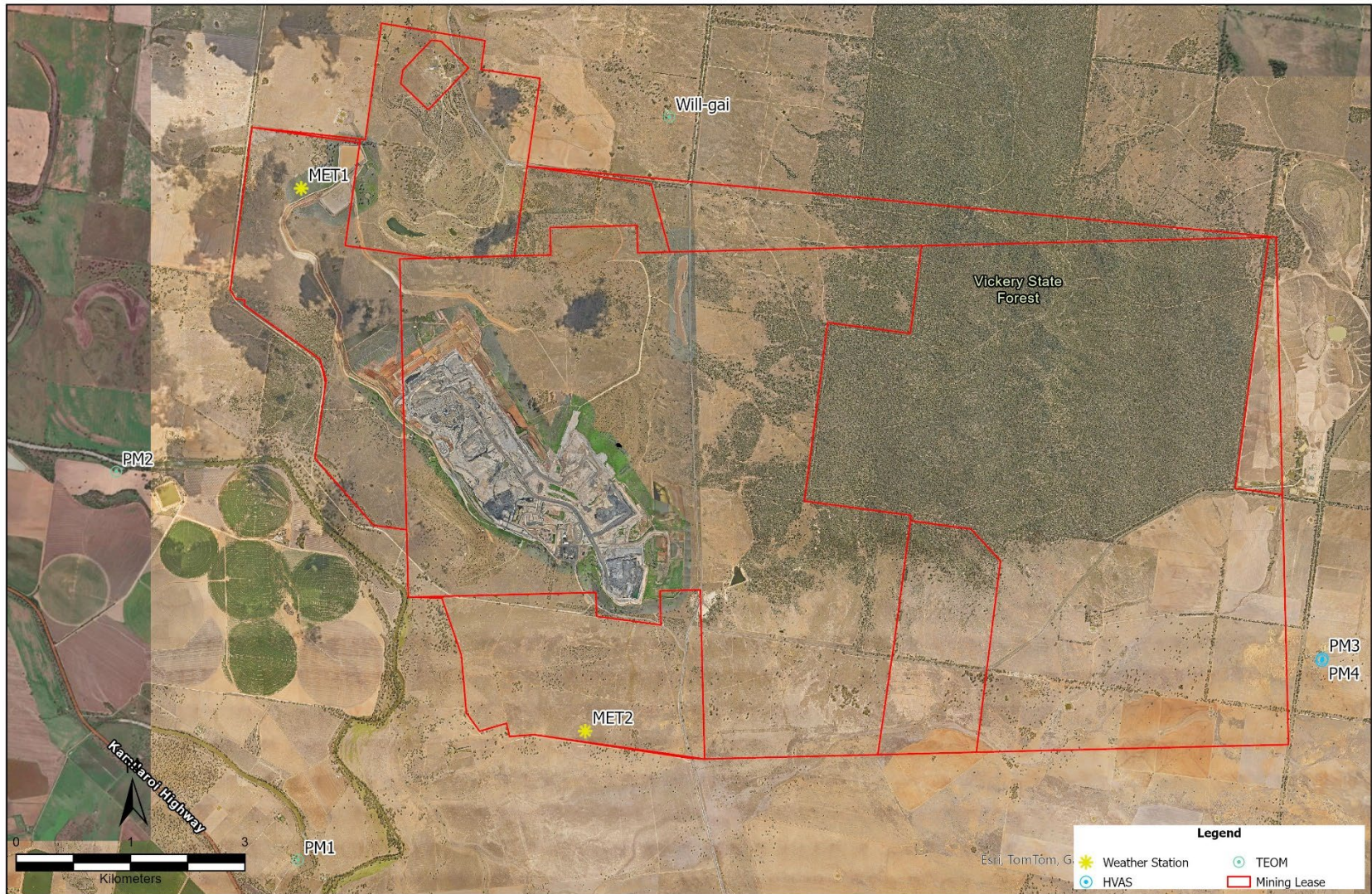
Proposed amendments

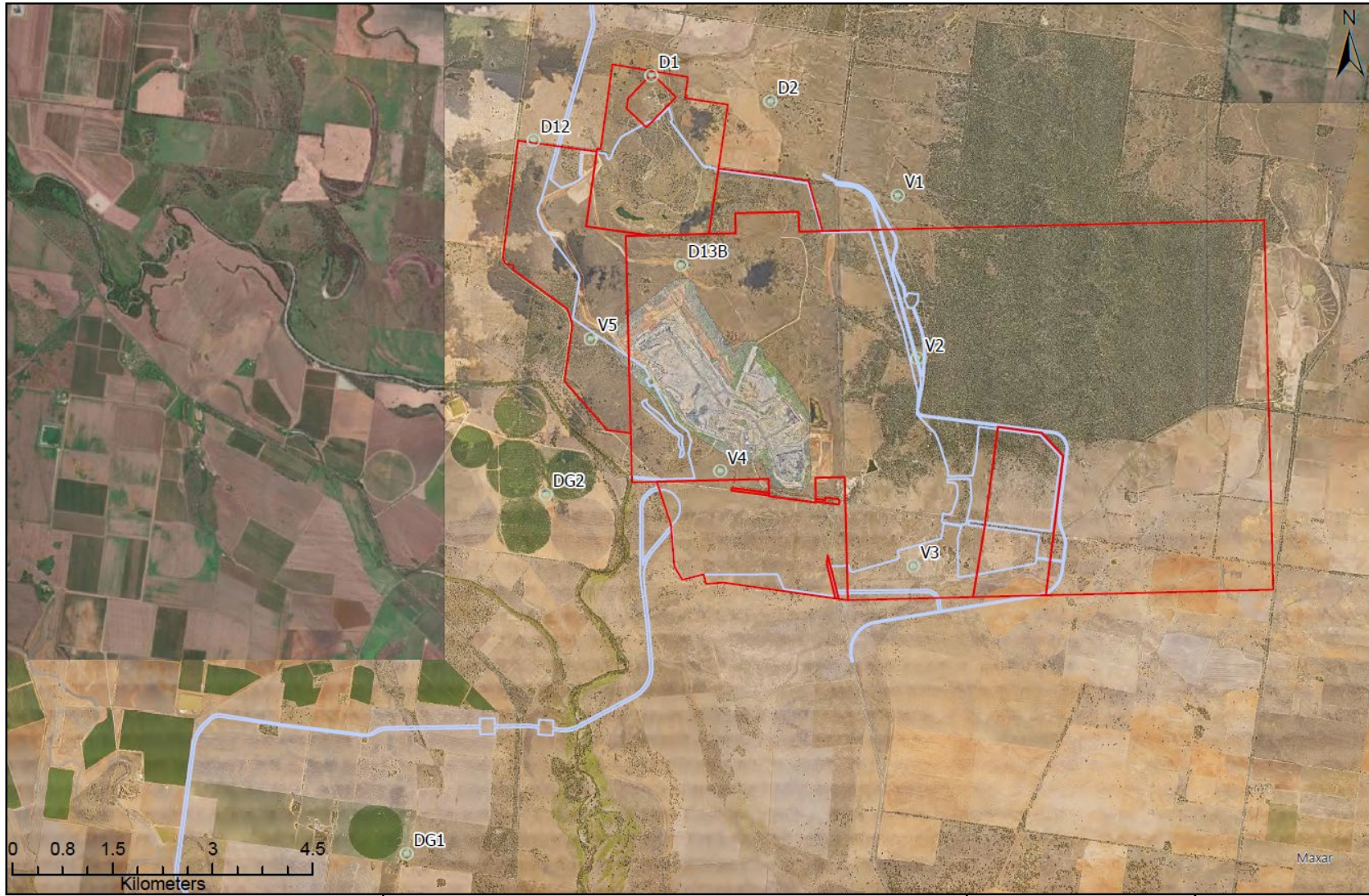
Blast Management Plan is scheduled for review and updating. The Koala Management Plan is scheduled for review and updating. Heritage and Aboriginal Cultural Heritage Management Plans will follow these reviews.

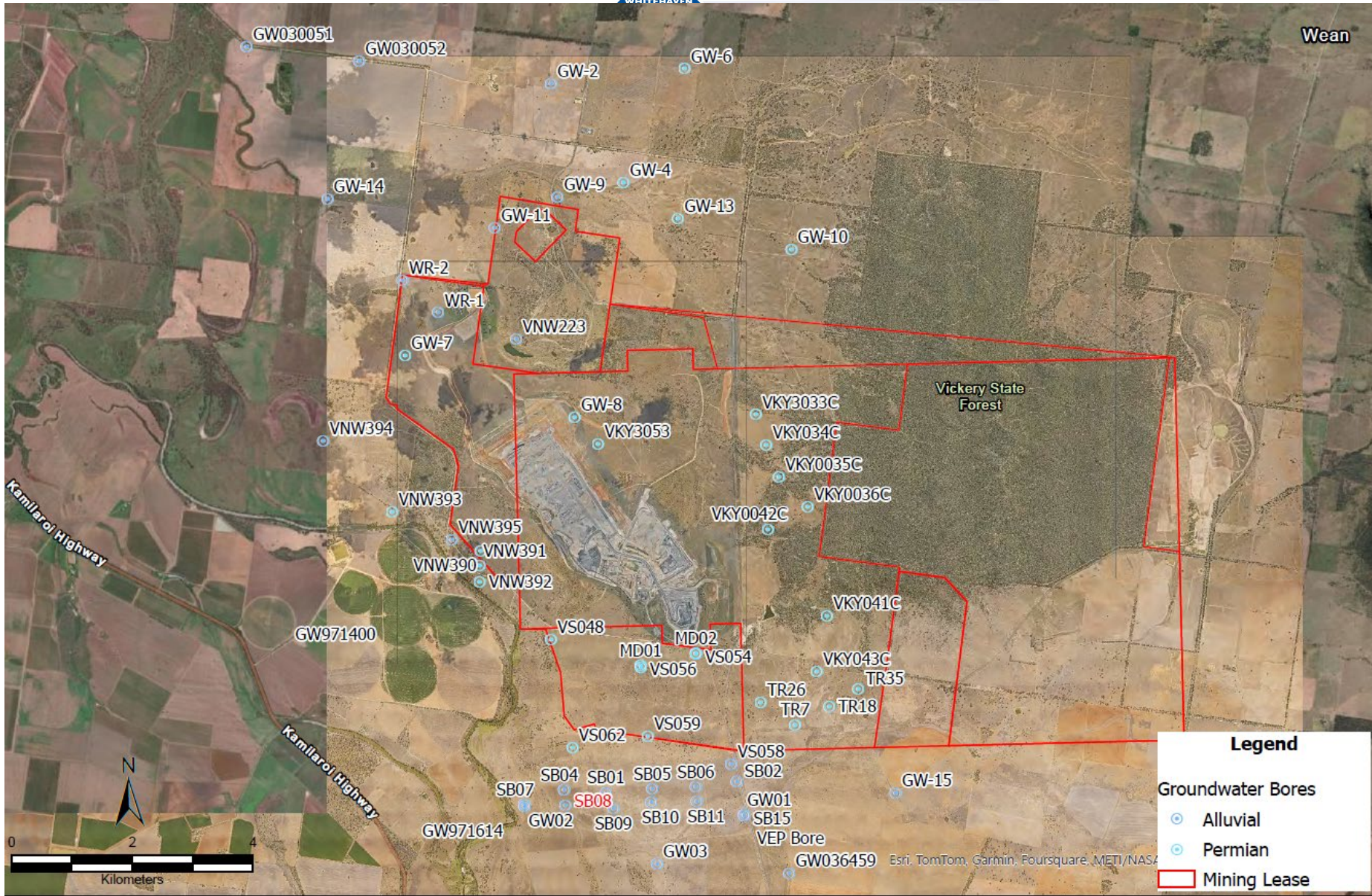
Appendix A

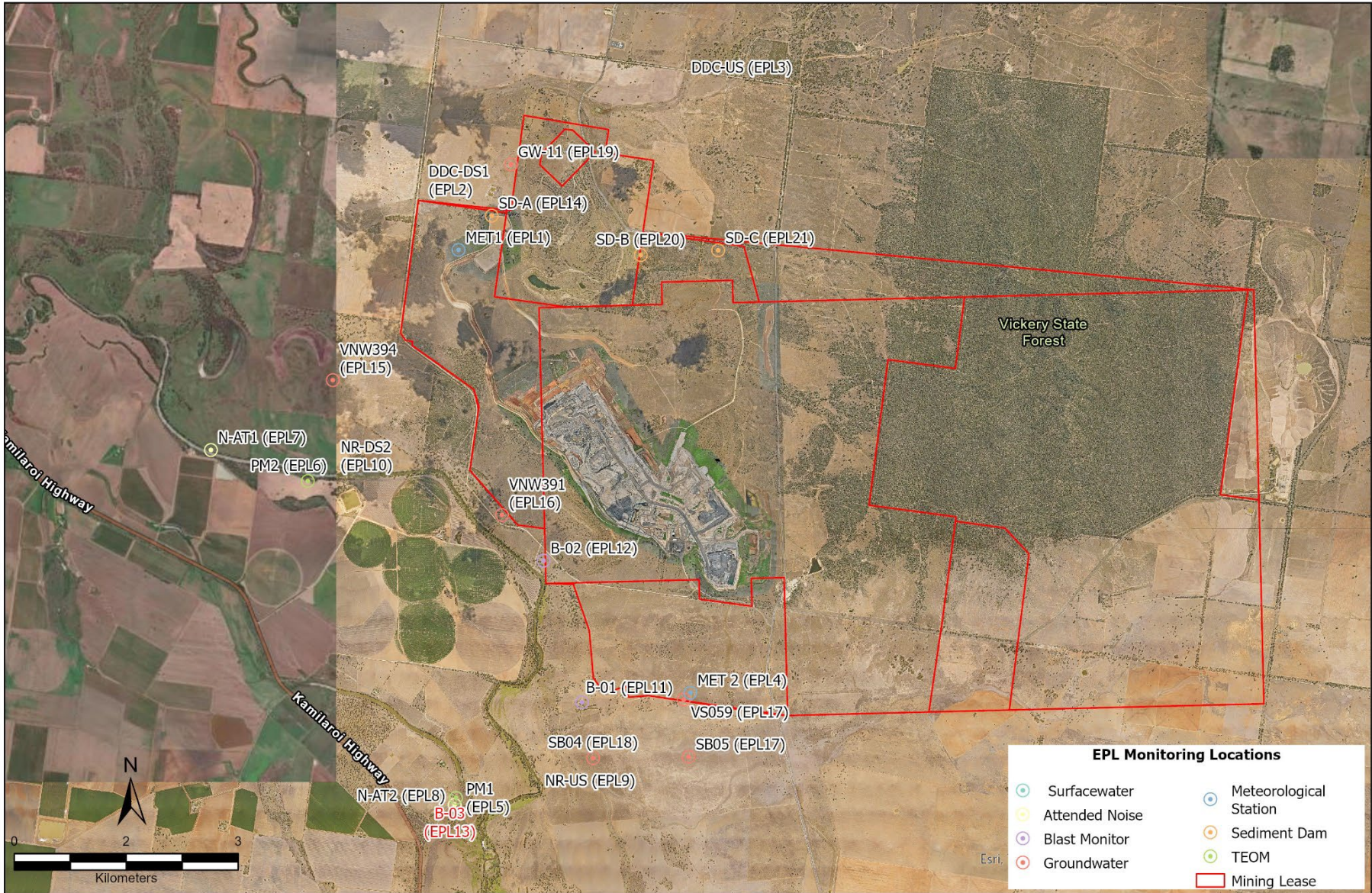


Appendix B

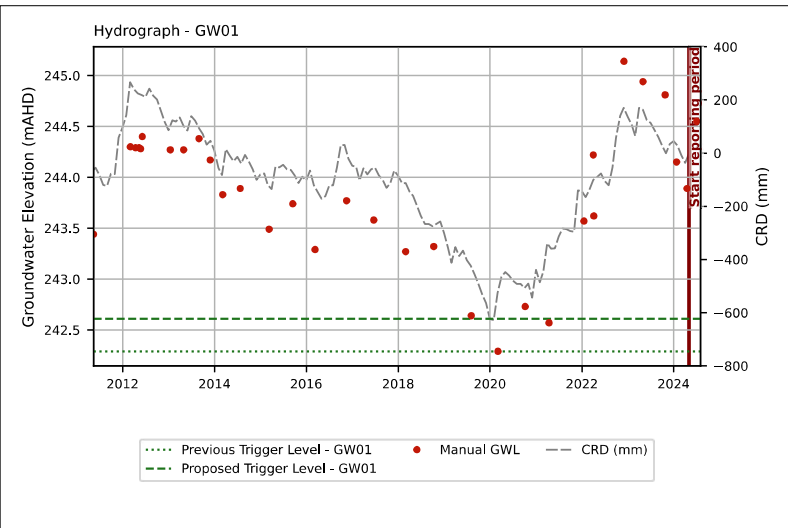
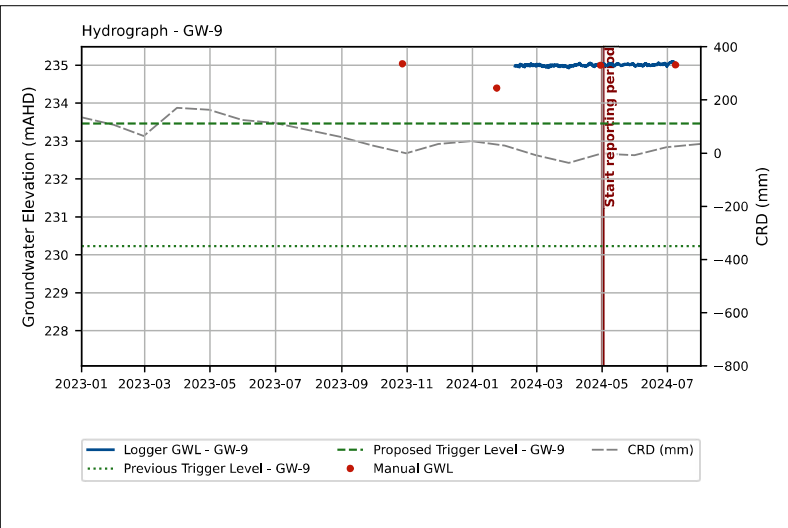
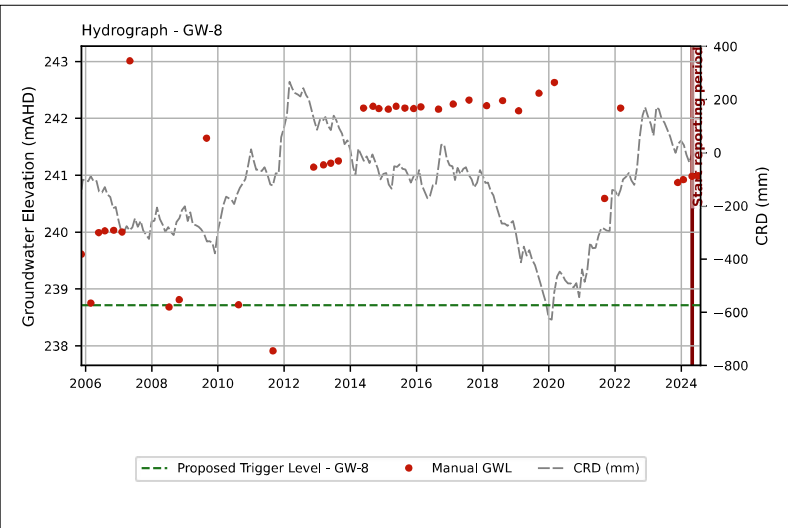
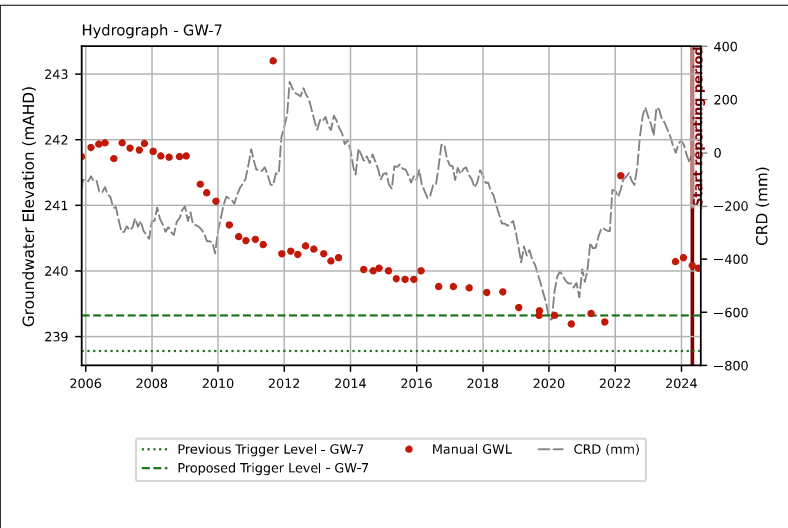
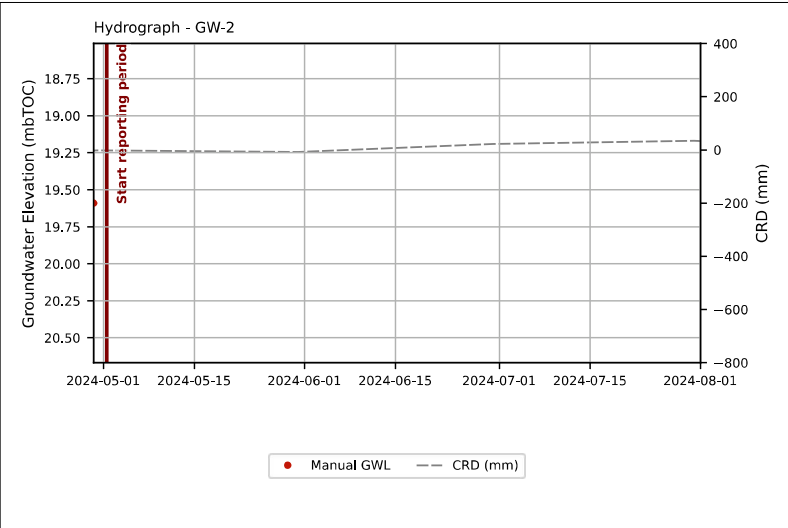
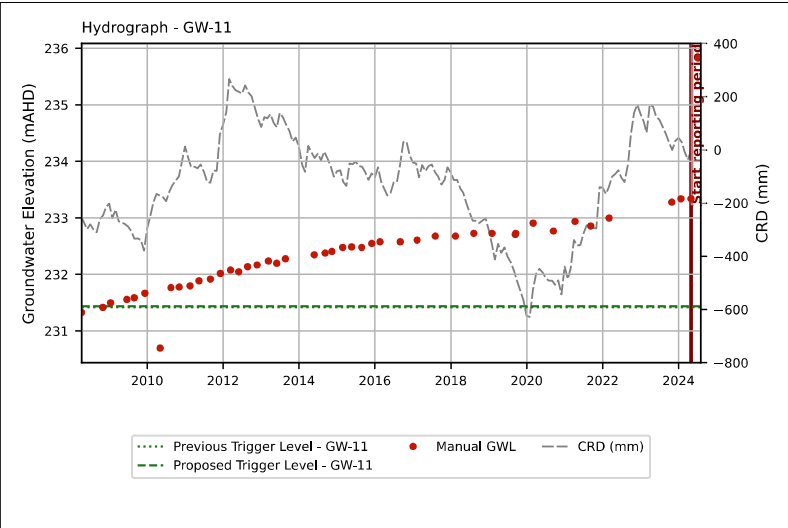


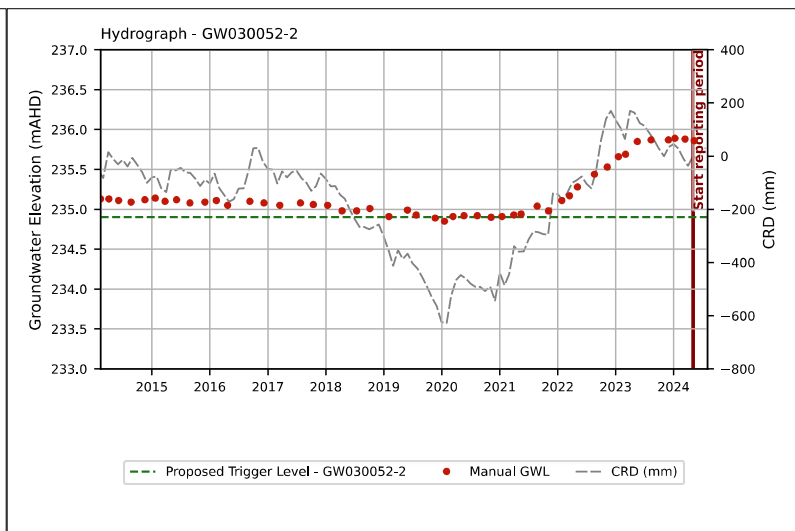
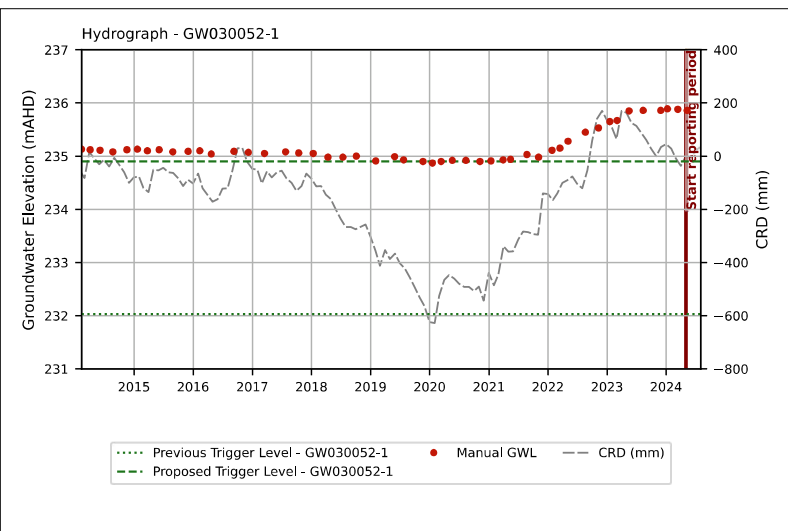
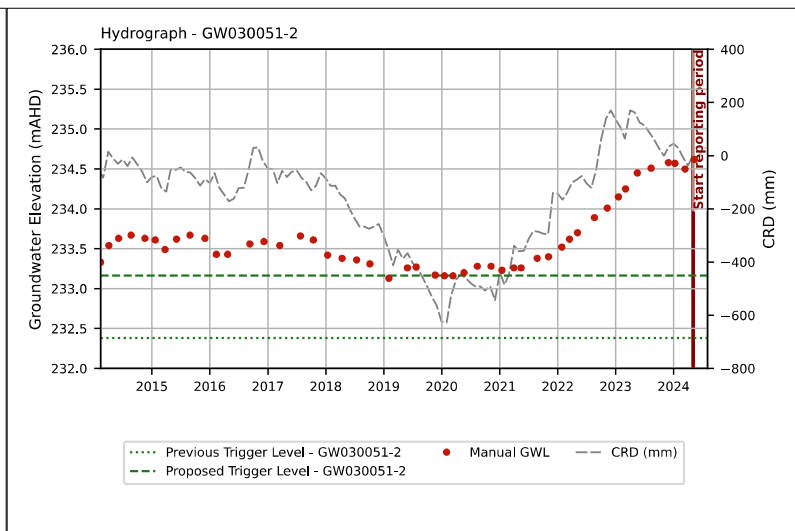
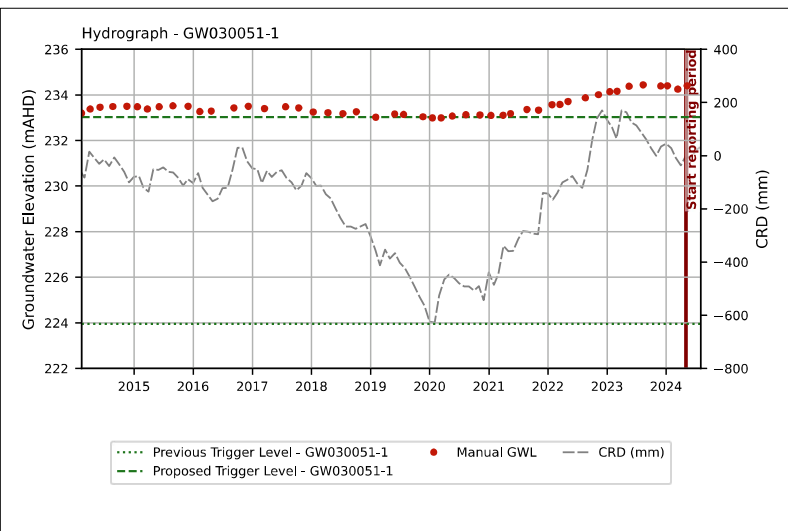
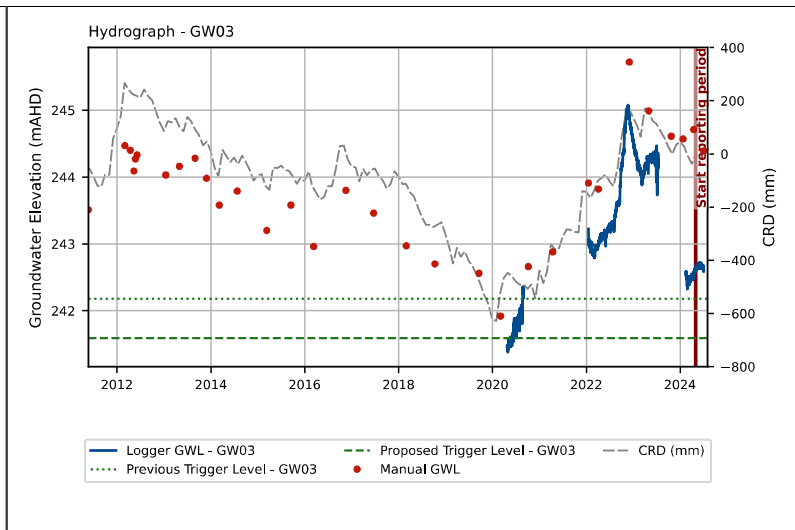
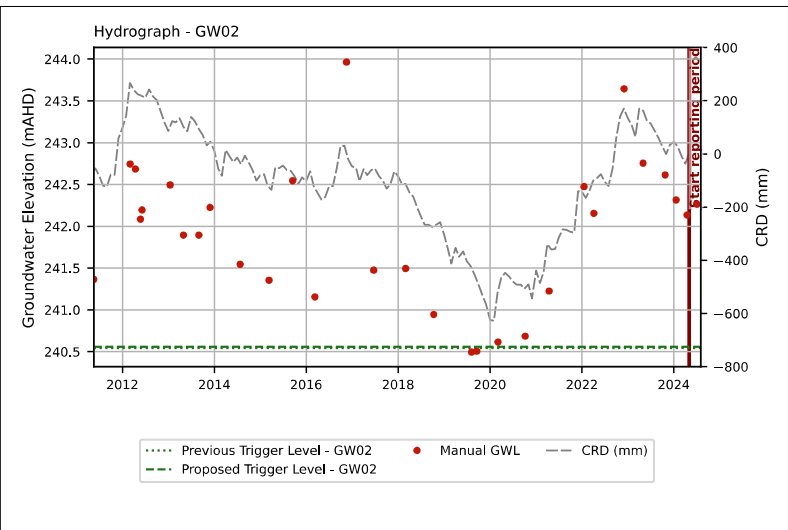


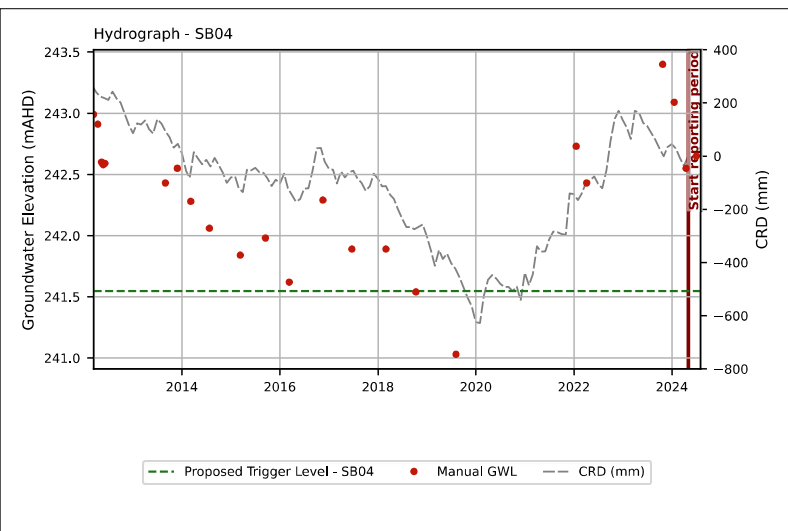
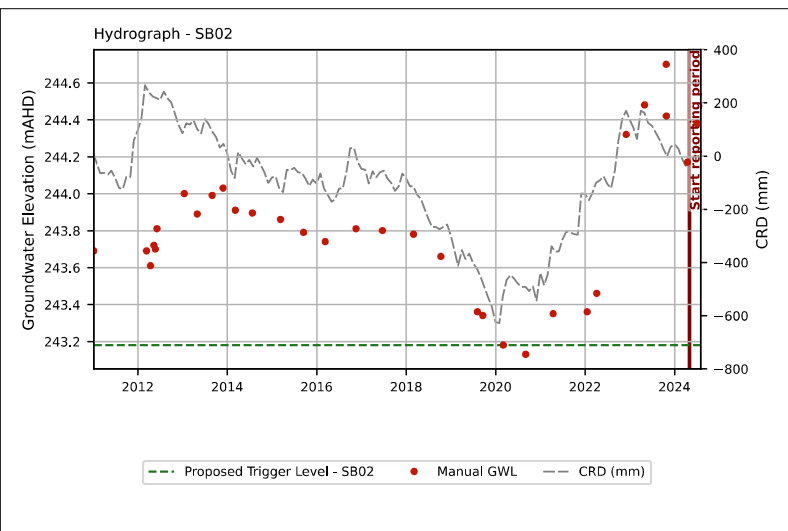
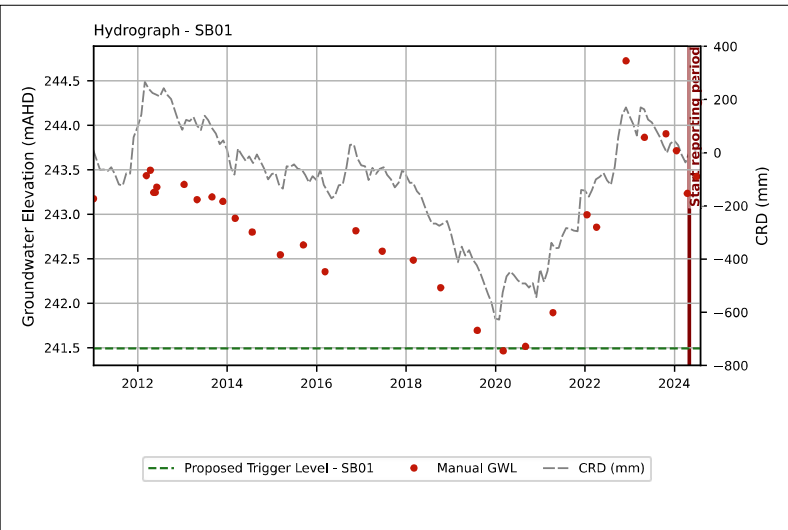
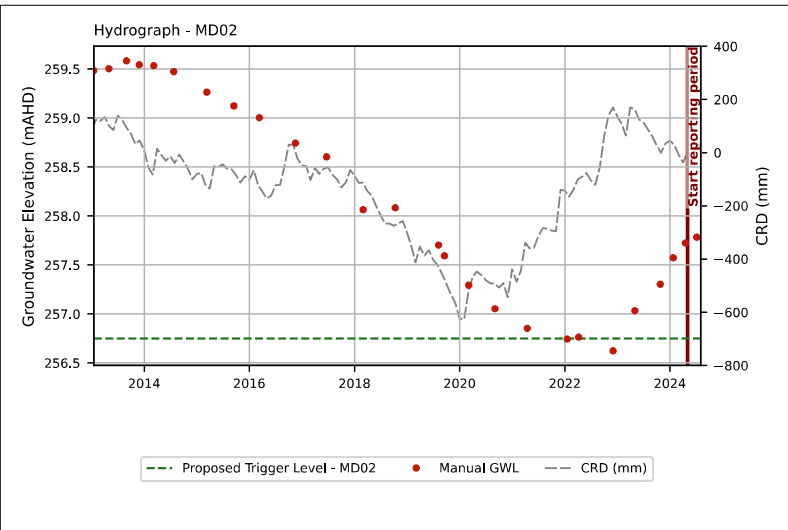
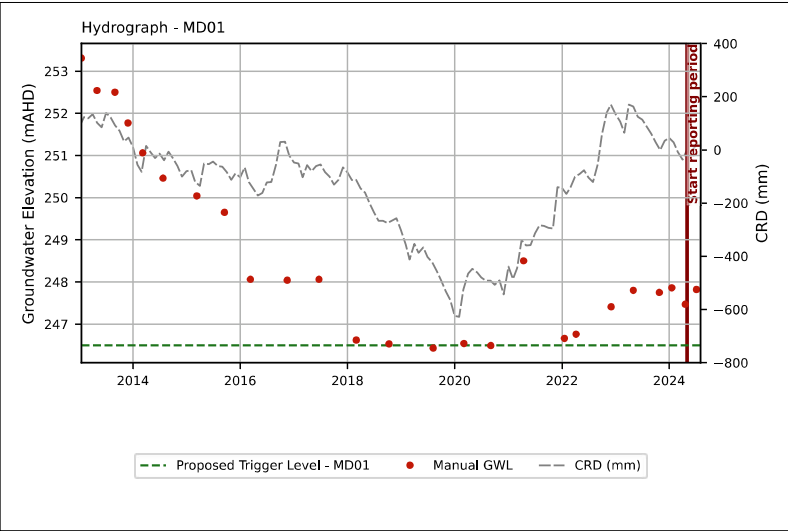
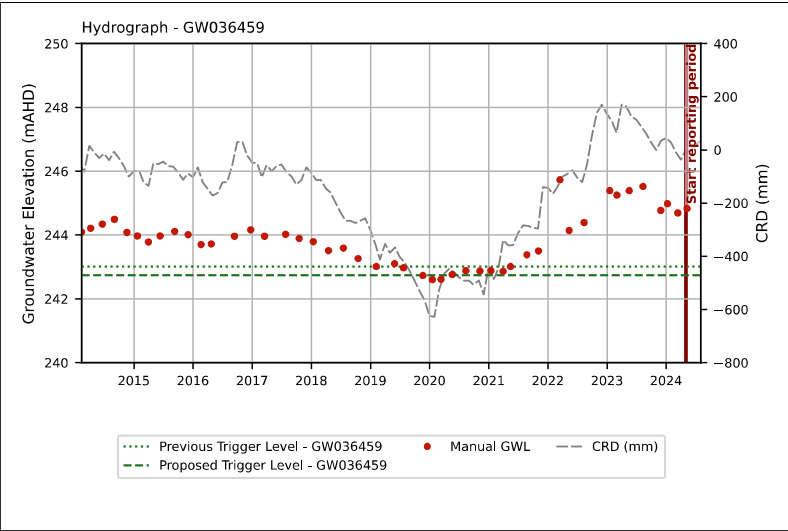


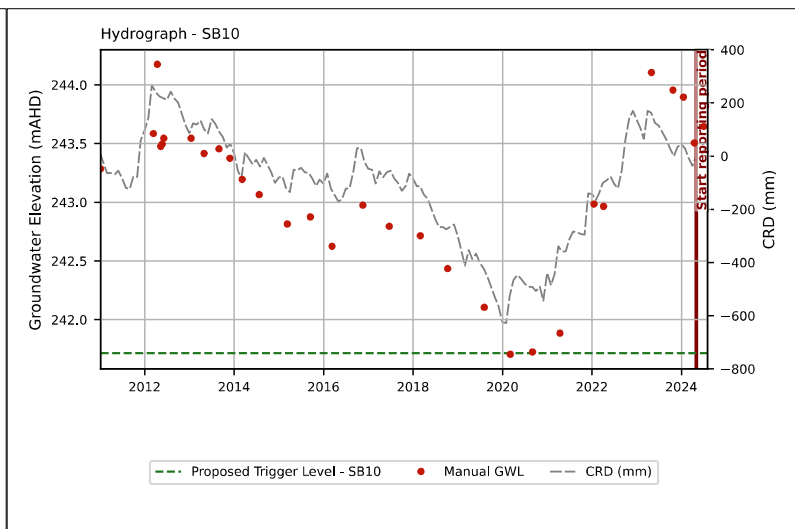
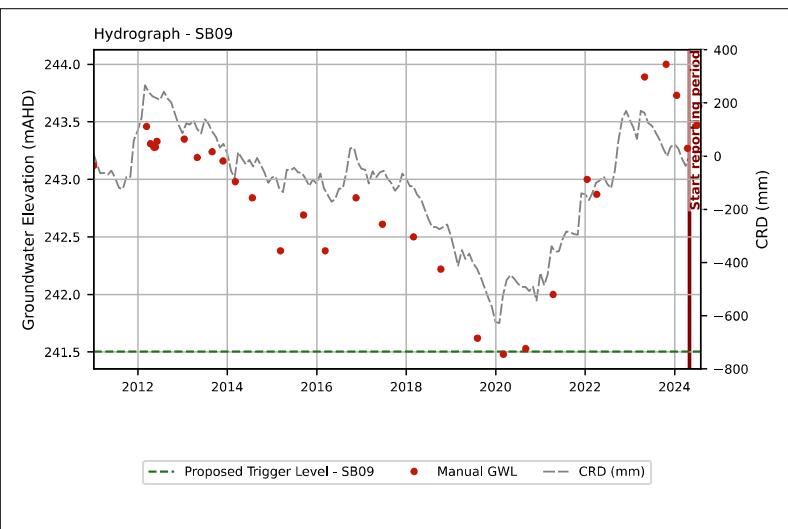
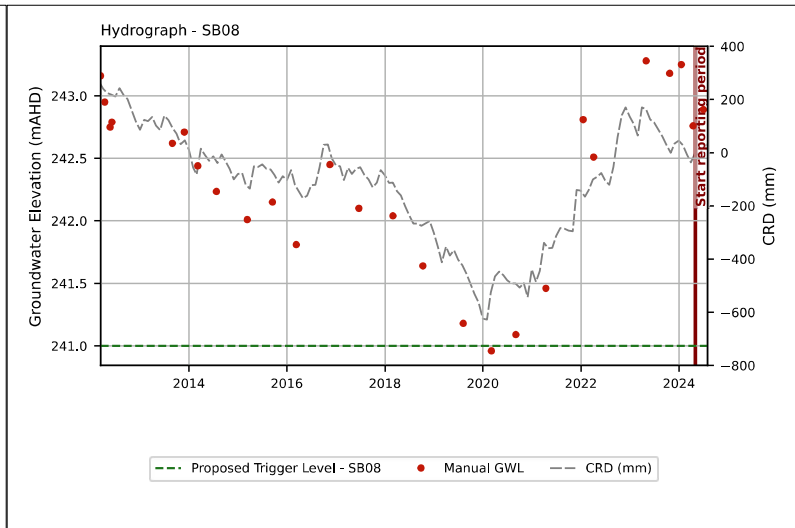
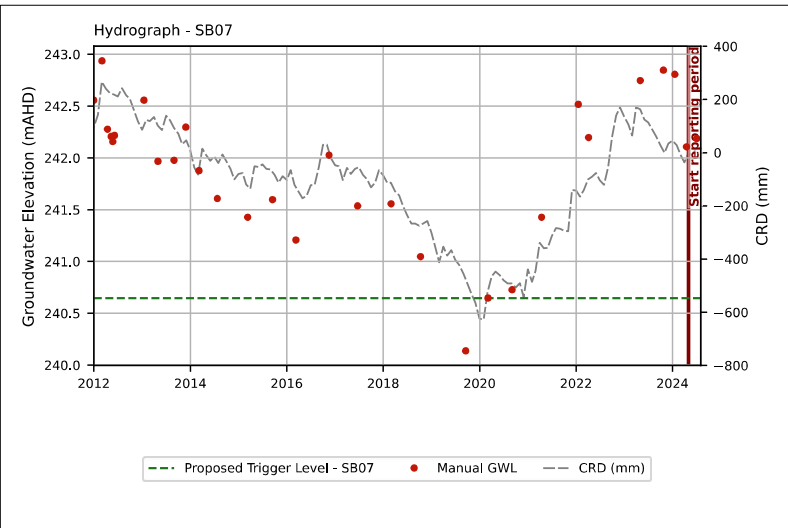
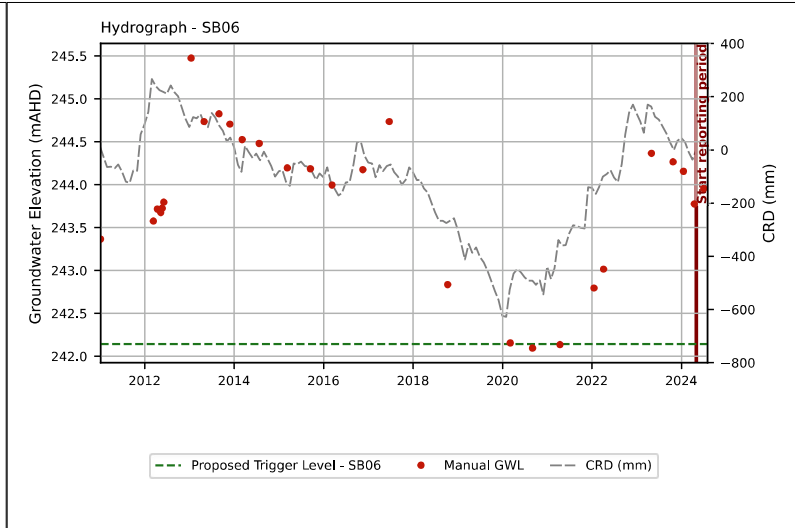
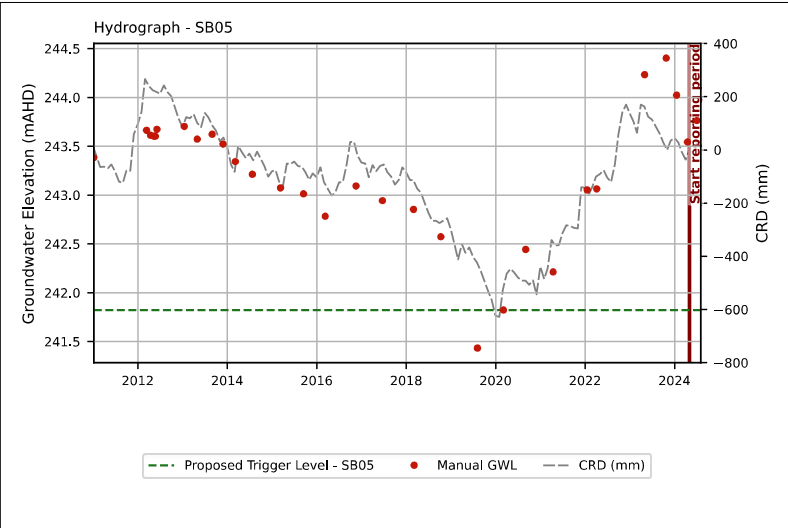


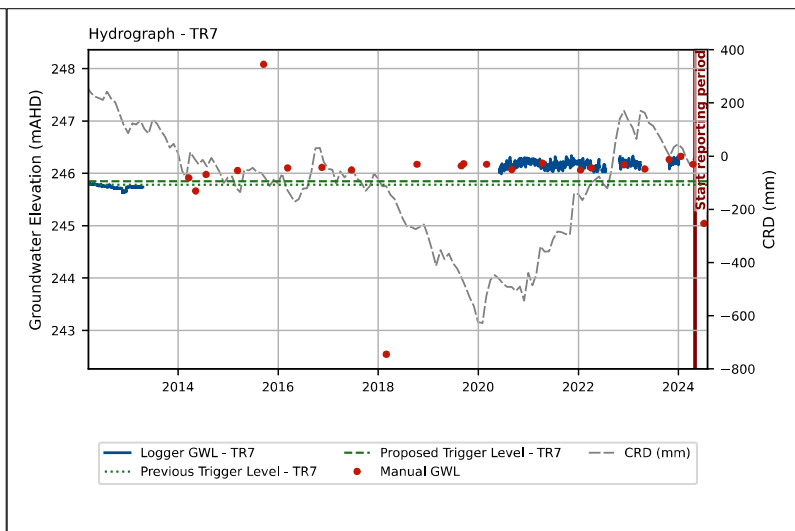
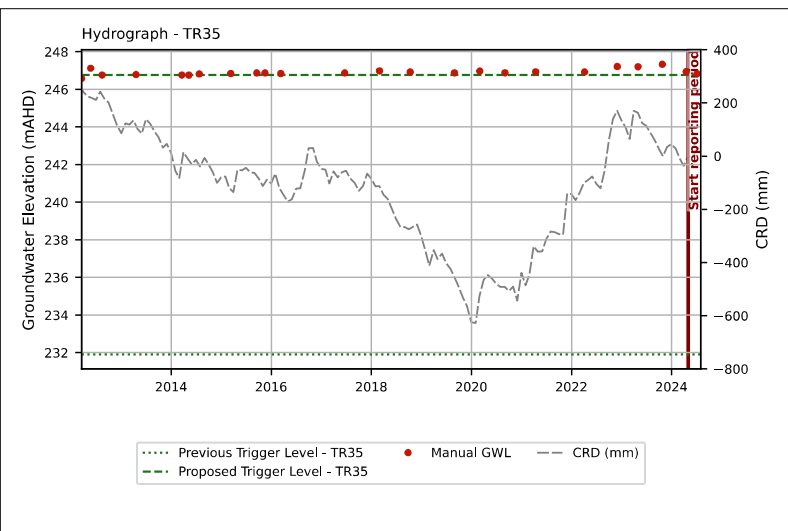
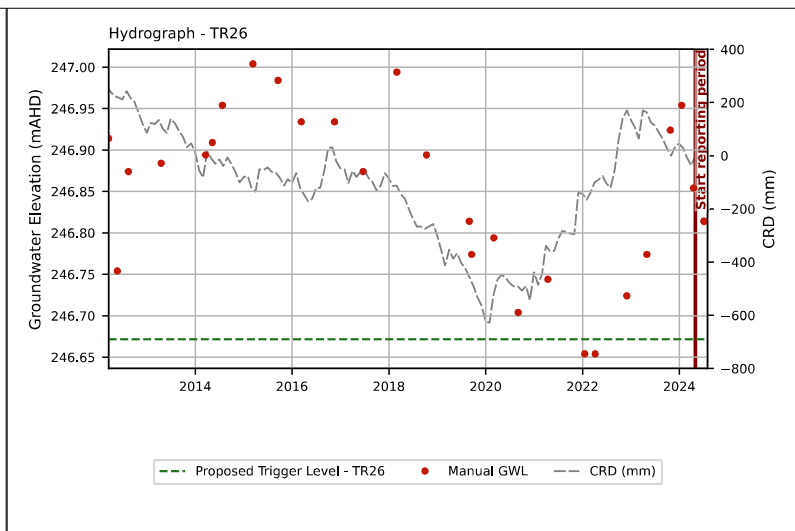
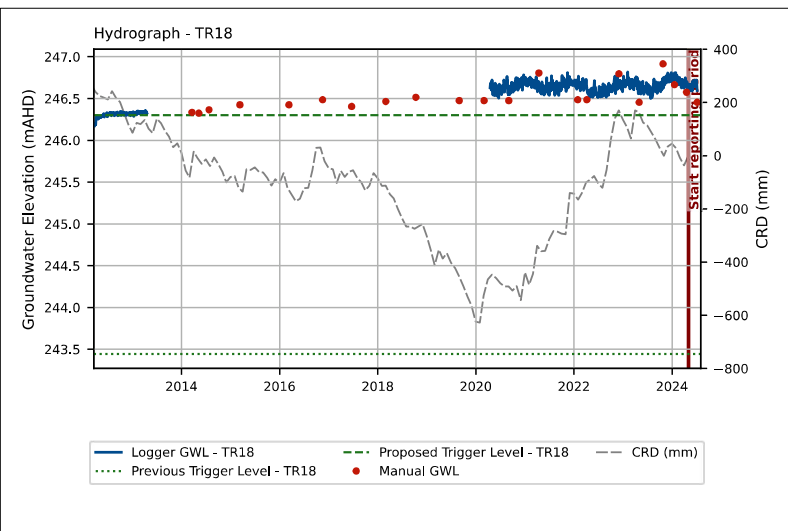
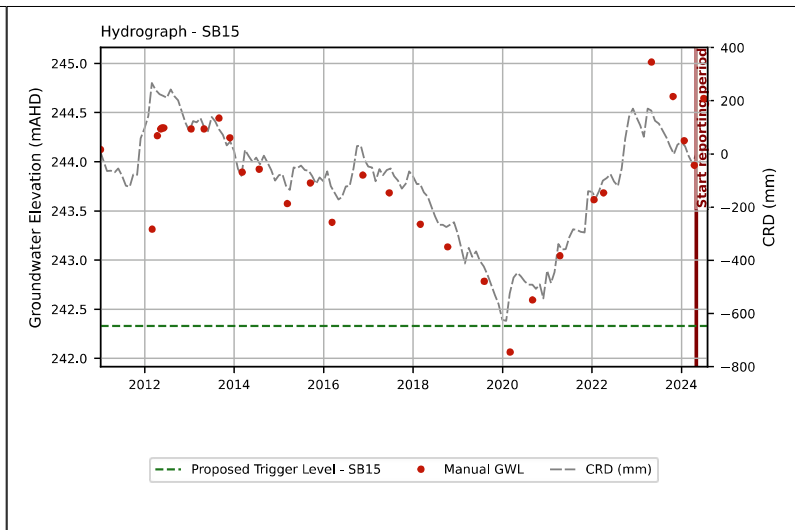
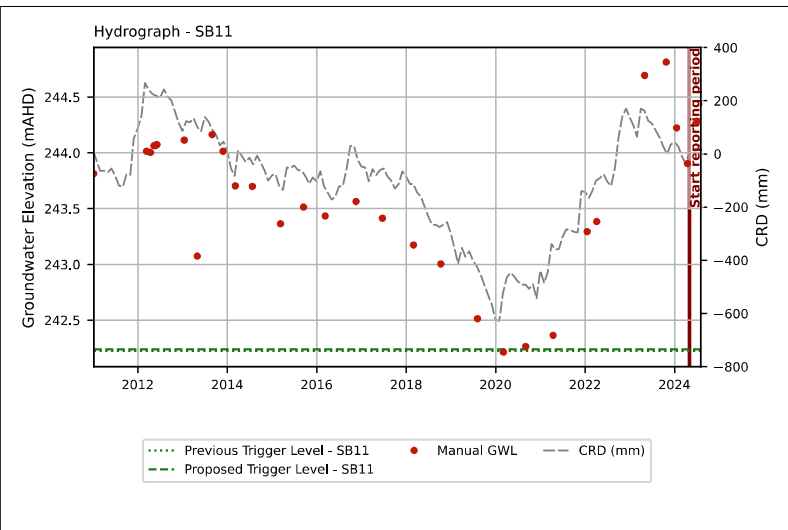
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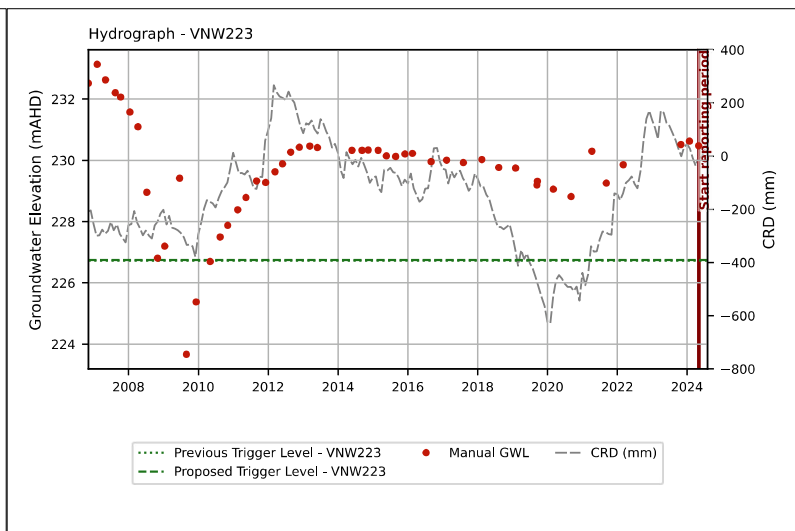
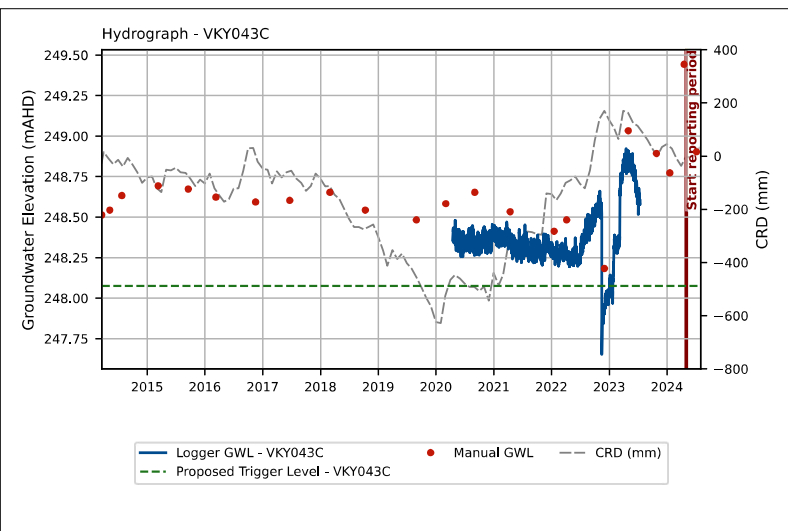
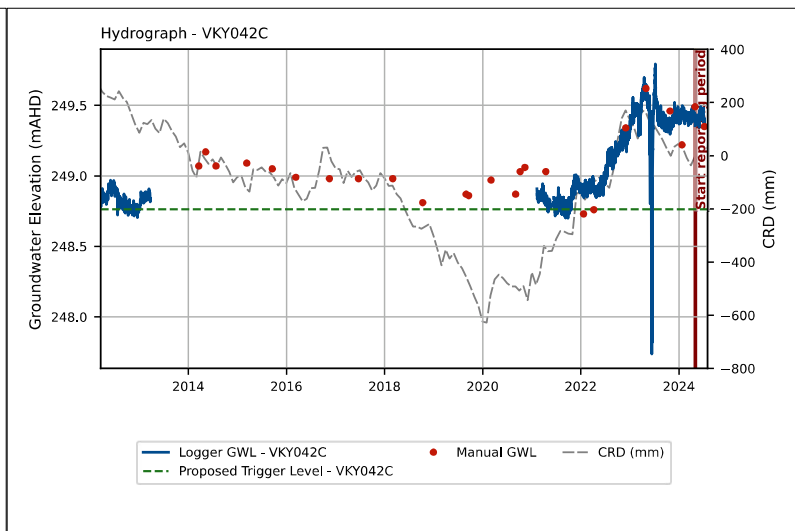
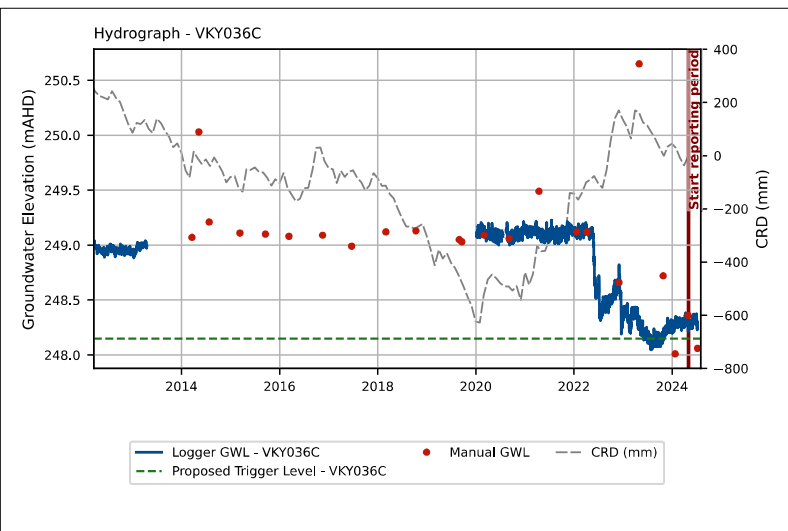
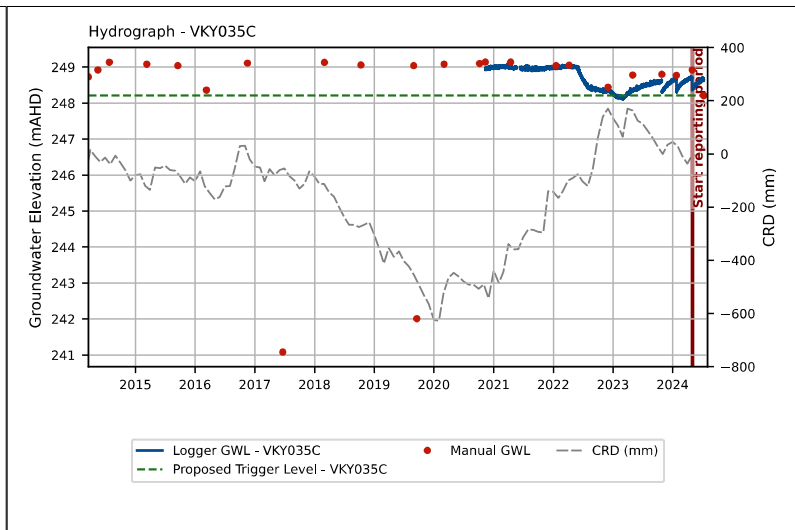
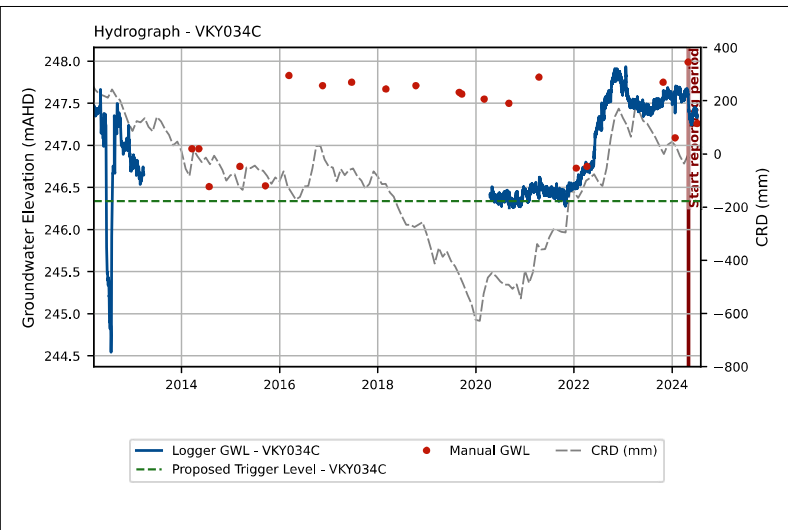


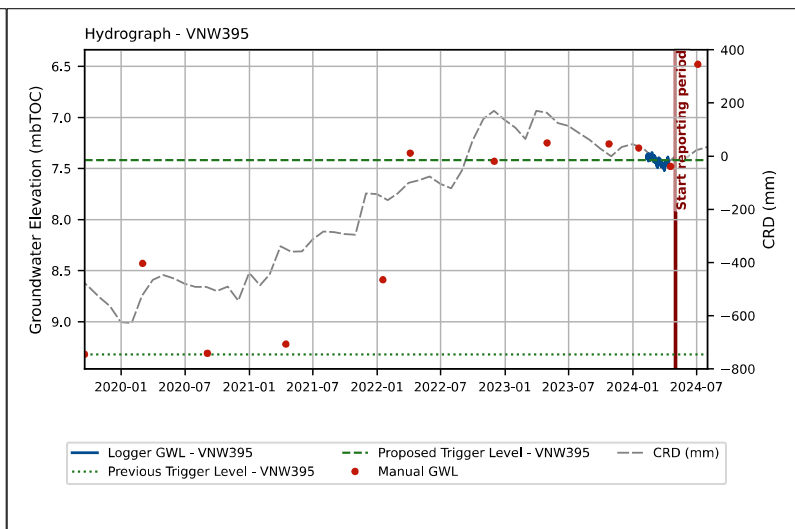
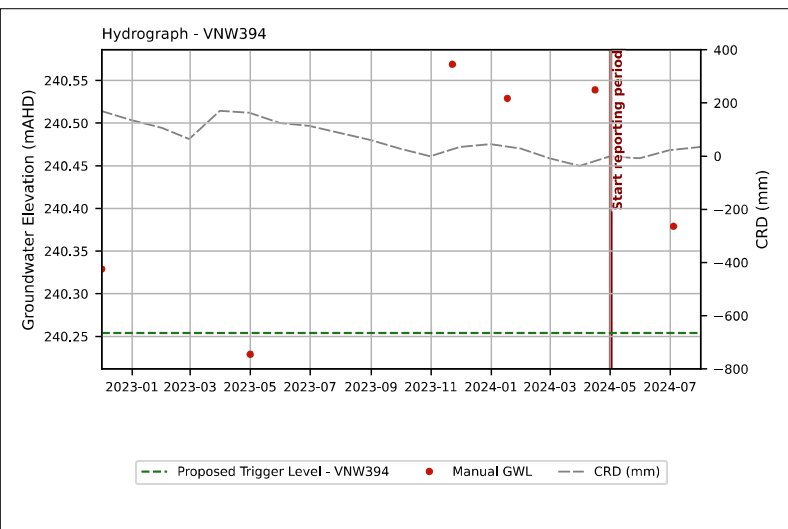
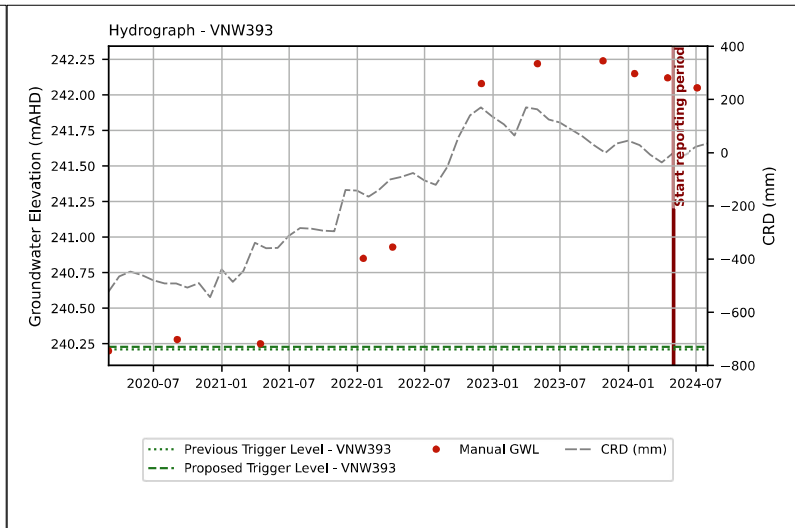
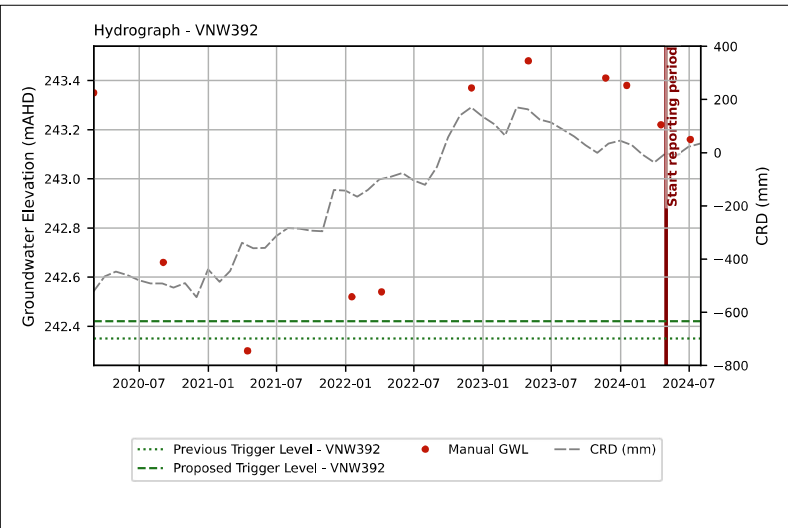
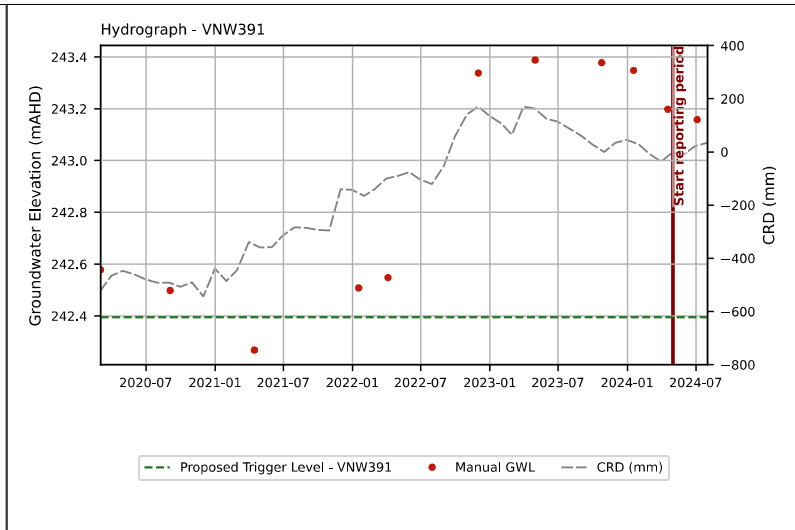
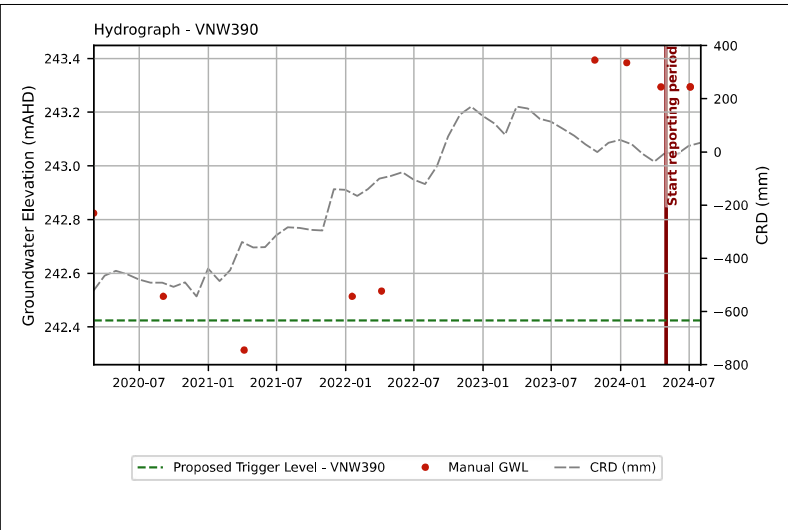


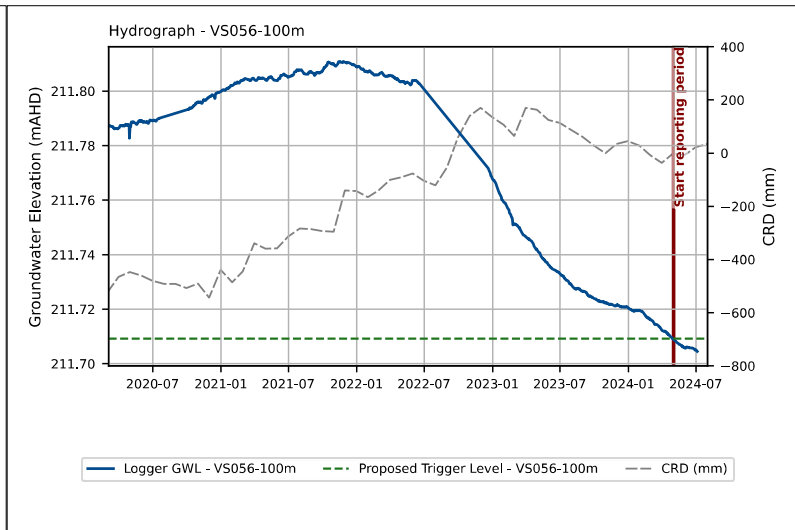
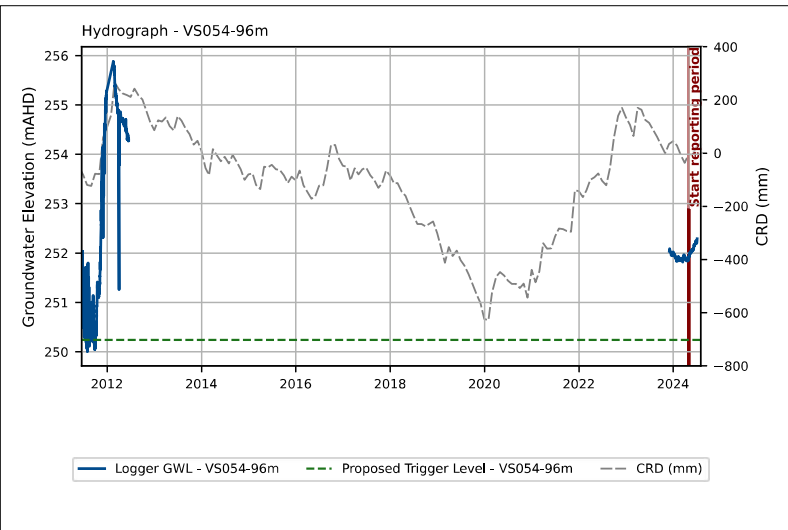
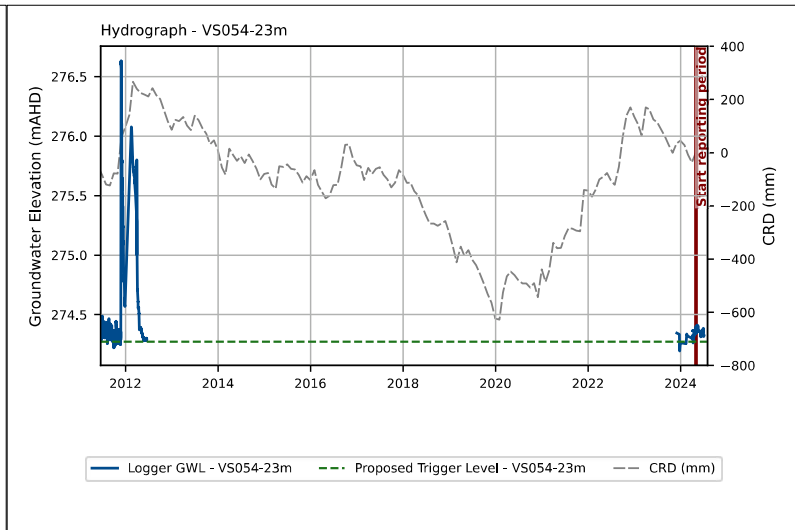
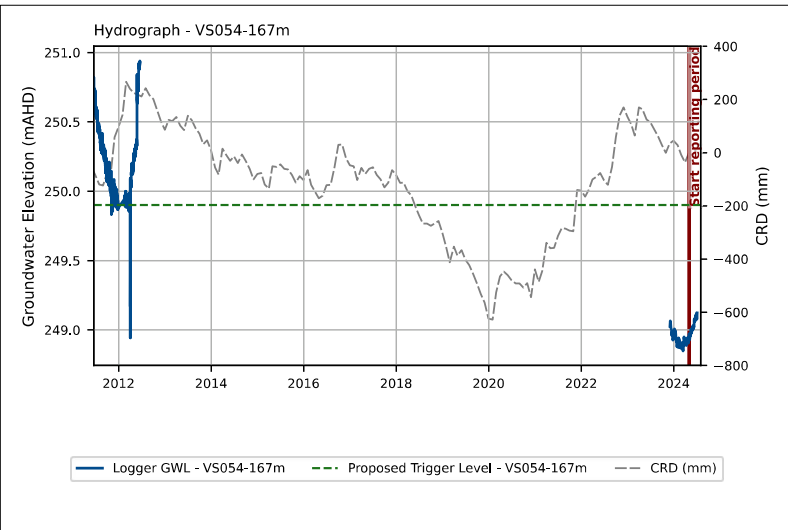
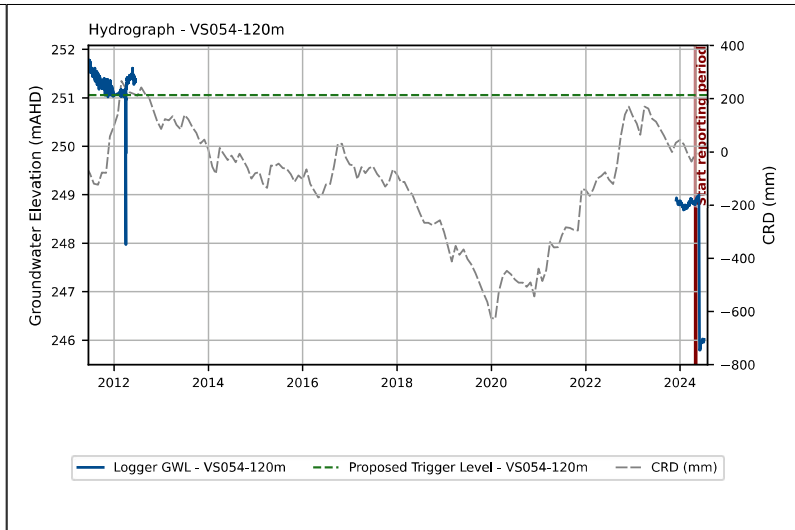


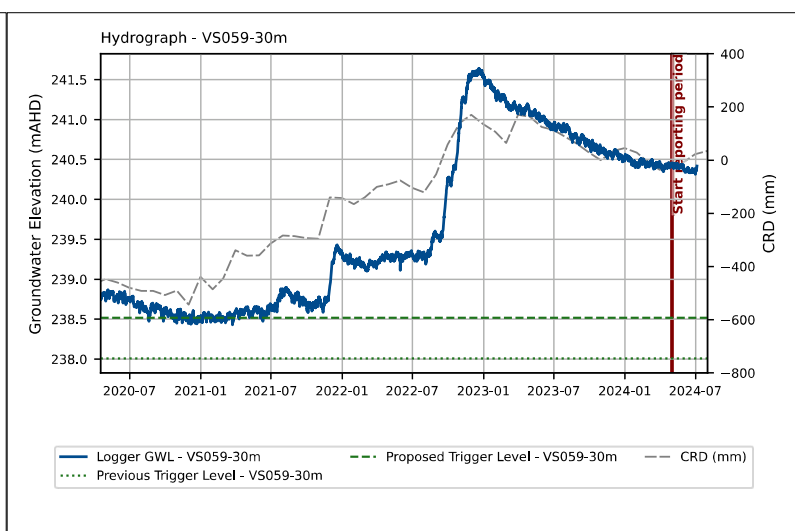
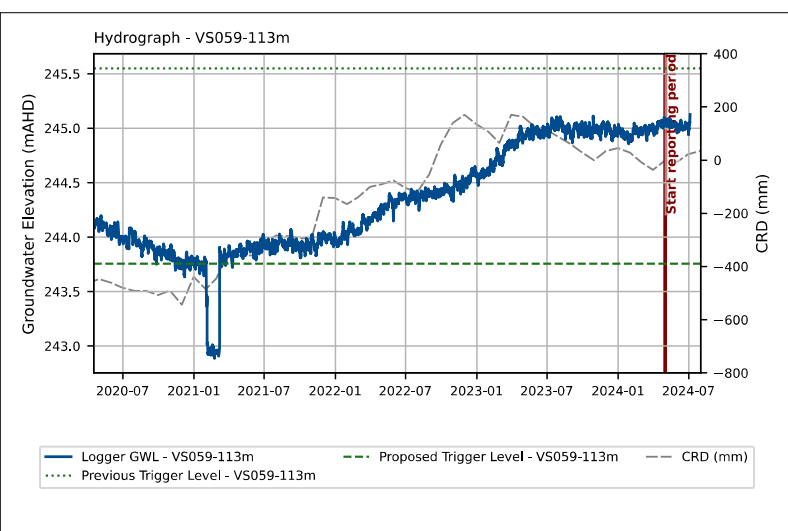
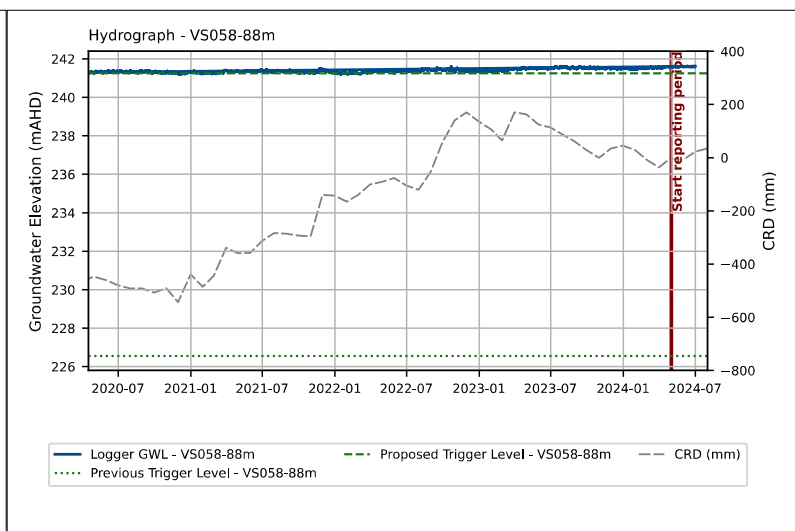
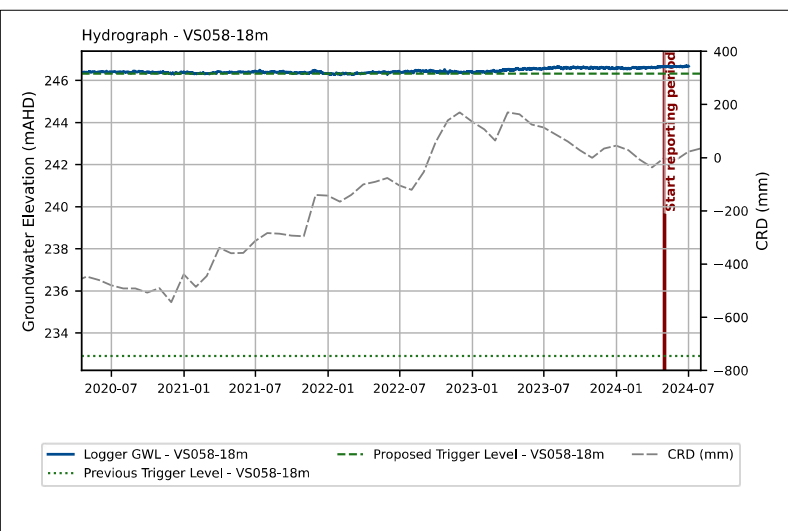
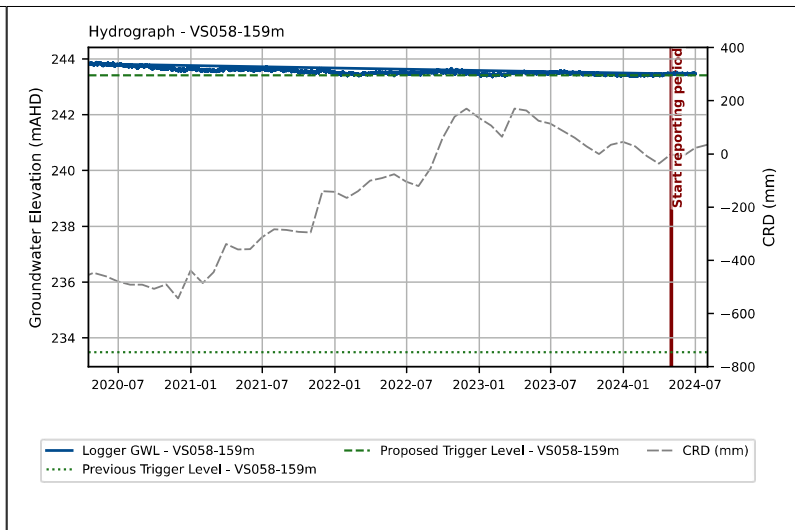
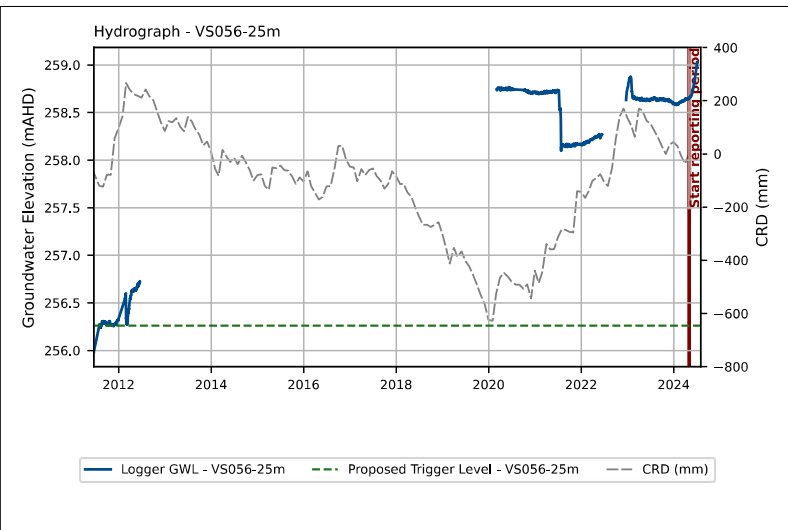


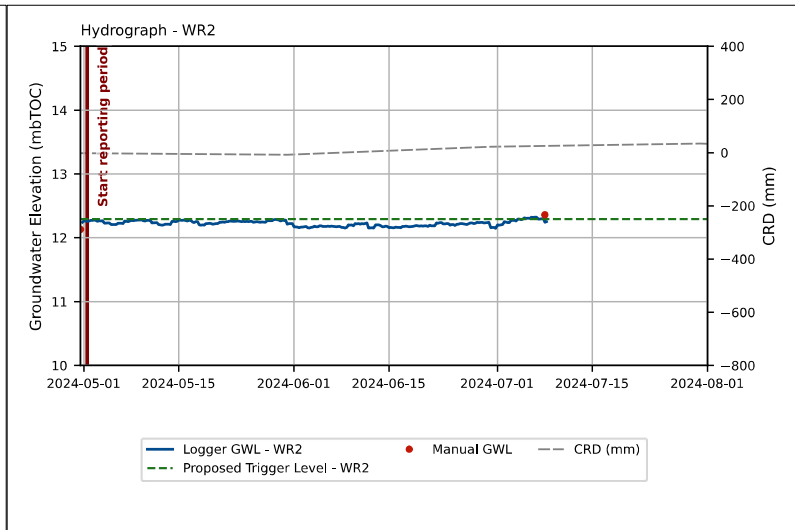
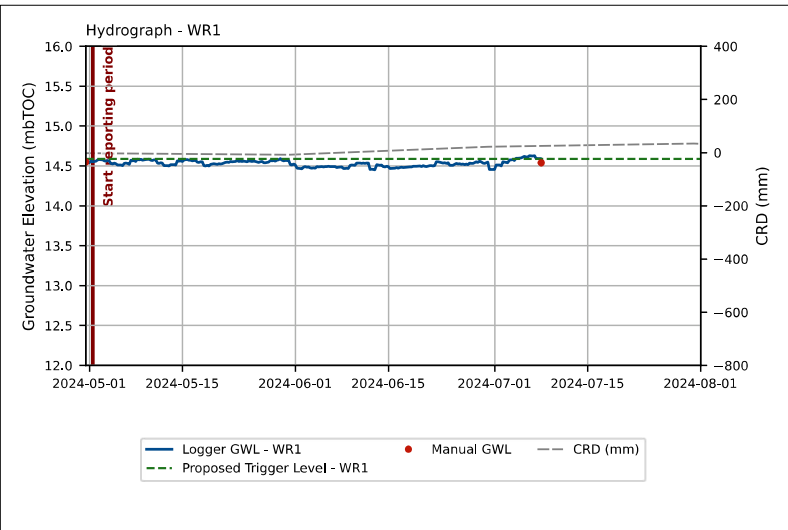
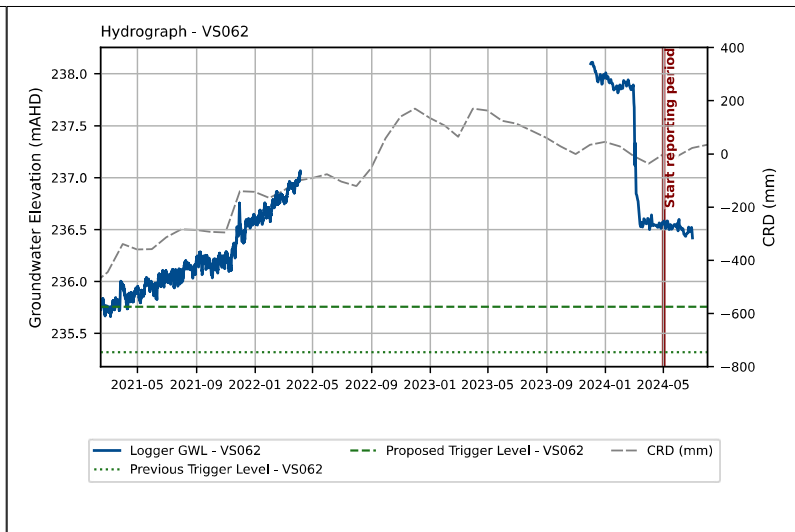
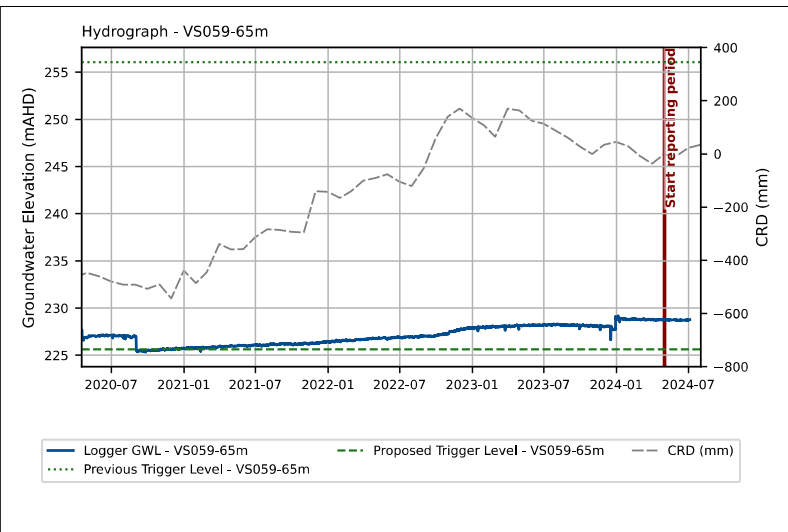












Whitehaven Vickery Extension Project Community

Consultative Committee

Date: Thursday 1 May 2025

Venue: Whitehaven Mine, and Online via Zoom

Invitees	
<p>Community Representatives</p> <p>Grant McIlveen, Community Representative (GM)</p> <p>Keith Blanch, Community Representative (KB)</p> <p>Narrabri Shire Council</p> <p>Cr Ethan Towns, Councillor (ET)</p> <p>Gunnedah Shire Council</p> <p>Cr Ann Luke, Councillor (AL)</p>	<p>Whitehaven Coal</p> <p>Megan Martin, Environmental Superintendent (MM)</p> <p>Matthew Sparkes, Manager Operations Whitehaven Vickery (MS)</p> <p>Jabin de Keizer, Community Relations Manager Whitehaven (JdK)</p> <p>Independent Chairperson</p> <p>Professor Roberta Ryan (RR)</p> <p>Minute taker</p> <p>Zoey Mackey-Craig (ZMC)</p>
Apologies	
<ul style="list-style-type: none"> • Cr Colleen Fuller • Cr Cameron Moore, Councillor (CM) • Wade Hudson, Manager Development Assessment (WH) • Cr Brett Dickinson, Councillor (BD) • Barry Thompson, Community Representative (BT) 	

Item	Description
1	Welcome, agenda, apologies, declarations – RR
	<p>Roberta Ryan (RR) welcomed attendees in the room and online.</p> <p>Minutes from the previous meeting, February 2025, were confirmed, and Megan Martin (MM) will publish them on the website.</p> <p>No new declarations noted.</p> <p>RR thanked the Whitehaven team for hosting them on site today, and for the tour of the mine site prior to the meeting.</p> <p>Cr Ann Luke attended the site tour as well and thanked the team for the opportunity.</p>

Whitehaven Vickery Extension Project Community

Consultative Committee

	<p>Attendees agreed that additional members for this CCC would be beneficial.</p> <p>RR encouraged attendees to look out for people who can act as a "conduit between the community and sections of the community and the mine.", and preferably those who are geographically close to see and hear things. RR acknowledged that participants are often busy, but that the 2 hours three- four times a year is not a huge commitment.</p> <p>An advertisement will be drafted by Jabin de Keizer (JdK).</p> <p>Action C: JdK to draft advertisement for CCC membership and share with committee for review. Responsible: JdK, RR, MM Due: ASAP</p>
2	Actions arising
	<p>ACTIONS ARISING, MAY MEETING The following actions were noted</p> <p>Action A): Draft Terms of Reference (ToR) for this group, for review by members. Responsible: RR and ZMC Due: 10 July 2025</p> <p>Action B): JdK to draft advertisement for CCC membership and share with committee for review. Responsible: JdK, RR, MM Due: ASAP</p> <p>Action C): Agenda item for following meeting, MOD1 Approval, including status update, summary of public submissions received, and advise caps on water extraction which may be placed on properties involved. Responsible: MM Due: Next CCC Meeting, 12 July 2025</p> <p>Action D): KB to provide drafted notes for submission to ZMC and RR, which will be prepared and submitted by the Independent Chair to the Maules Creek mine CCC chair. Responsible: KB, ZMC, RR Due: ASAP</p> <p>ACTIONS ARISING. FEBRUARY MEETING It was noted that there are outstanding actions from the February meeting.</p> <p>Action A): Response to several questions raised by Narrabri Council. They are listed in detail below. Responsible: BD, ET Due: ASAP</p> <p>(a) How much money has the Council received in the past 20 years through VPAs and one-off payments associated with the mining industry.</p>

Whitehaven Vickery Extension Project Community

Consultative Committee

	<p>ET says that all VPA agreements are published on the Council's website, so can be accessed there.</p> <p>BD is unaware at this stage as to where this us up to, but he has forwarded this on to council and will provide a response offline as soon as possible.</p> <p>(b) How much money has been invested back into Boggabri within this past 20-year period.</p> <p>BD has forwarded this to the council and will provide a response offline as soon as possible.</p> <p>(c) How much interest has been earned on the \$3.2 million contributed to the Council by the Vickery Coal mine.</p> <p>BD has forwarded this on to council and will provide a response offline as soon as possible.</p>
3	Environmental Report
	<p>Megan Martin (MM) provided members with a detailed presentation (attached to minutes). The presentation covered monitoring results and a management plan update. Included in the plan is noise, air quality, water, rainfall, blasting paints, and management.</p> <p>Noise and Air Quality Monitoring</p> <ul style="list-style-type: none">• MM advised that a new real-time noise monitor is located on Broadwater, a company-owned property.• The real-time noise monitor will be moved closer to the rail spur to cover the south during construction.• The current location of the noise monitor is indicated by an arrow, and it will be moved near the pink dot at the bottom N-AT3. <p>Noise Monitor Relocation Discussion</p> <ul style="list-style-type: none">• GM raised concerns regarding highway noise affecting the monitor if placed near the rail spur. He suggested moving the monitor further away from the highway to avoid highway noise.• MM and KB discussed that the ideal location would be near private properties immediately adjacent to the rail spur.• The land available is primarily the rail spur itself, which has a tight footprint.• An option is to place the monitor at the residence on Vivale (N-AT3 an attended monitoring point).• In the interim, the monitor will be placed north of the rail spur on a private property.• MM advised that there is another property being negotiated with regarding a monitoring agreement, and that Whitehaven are always happy to speak to people who may want to have an agreement, which includes compensation.• MM advised that acoustic engineers conducting the compliance noise monitoring ('attended monitoring') can cut out extraneous noise and listen to the mine noise with specialised equipment, so as to eliminate highway noise issues. Operational management puts a trigger at a certain decibel, but it triggers frequently for non-mining noise. Construction noise monitoring is easier with handheld noise meters that can be used more frequently. N-AT3 will be a good spot for attendant

Whitehaven Vickery Extension Project Community

Consultative Committee

monitoring because it'll pick up both mine and the rail, but it will still be a little highway impacted. Once the rail is constructed, the real time noise monitoring instrumentation could be moved further from the highway to monitor rail noise at private receivers.

Air Quality Monitoring

- MM advised that the monitoring locations are shown in the report map provided to members.
- There is one at Lanreef, PM1, and PM2 at Mirrabinda. They both monitor 2.5 and 10. There is a daily limit of 50 micrograms per m³ for PM10 and 25 for PM 2.5. There is also an annual averaged level that must be met. There have been no exceedances of the 50 or the 25 for either of those. Depositional dust gauges are also monitored. These are a very basic form of air quality monitoring. This monitoring regime is kept because it's listed on both the Canyon approval and the original Victory approval. Lab analysis can be done on the dust to determine its composition.

Water Monitoring

MM provided the following update on groundwater monitoring.

- Groundwater monitoring is done quarterly, and surface water monitoring is done monthly.
- Surface water quality is taken from the Namoi River upstream and downstream every month.
- Surrounding creeks are also sampled, but most of the time they're dry.
- Surface water quality in the Namoi is stable, with no difference upstream and downstream, and there has been no discharge.
- Groundwater monitoring is still monitoring background levels.
- Once two years of data is collected, interim trigger levels will be assessed, and unique trigger values will be created for each.
- The number of bores monitored may be changed.
- All samples are sent off site for independent analysis.
- QA/QC is performed, with some samples sent to a different lab.
- Field blanks of deionized water are sent to check for sampling process errors.

Rainfall

MM provided the following update on rainfall.

- March was very wet with 217mm of rain. April has been drier with about 48mm.
- AL noted that Gunnedah had water restrictions due to the impact on the bores.
- MET1 has only been operational since last September, so it's not used for annual trending yet.
- There are differences between the two weather stations, even though they are only about 3km apart.

Blasts

MM provided the following update on blasts.

- There have been 14 blasts in the last quarter up until March, averaging about one blast a week. The monitoring equipment remains in its original location.
- There are three blast monitors measuring vibration and overpressure, all within the project approval criteria.

Whitehaven Vickery Extension Project Community

Consultative Committee

- Blasts are registered on the website and notifications sent out via SMS and email.

Road Closures

MM provided the following update on road closures.

- In the event of a road closure, the Shire Council is notified.
- Specialised certified traffic control personnel are used for road closures.
- There haven't been many road closures because blasting doesn't generally pose a risk to the road.

Communication and Complaints

MM discussed recent communications and complaints.

- Initial gaps in resident lists have been addressed.
- A few additional people have requested to join the notification list, which is seen as a positive sign.
- One complaint was received during the quarter regarding lighting, which came through the Department of Planning.
- The source of the lighting issue couldn't be found, and the complaint was received 10 days after the incident, causing response issues.
- A lighting expert provided advice, and demonstrated that we were operating in accordance with our approvals. The complaint was about light spill, and adherence to standards which dictate acceptable lux levels. This is managed operationally by the Open Cut Examiner (OCE) which is a statutory role that involves supervision of all mining operations.
- Members are reminded that complaints can be lodged via a line on the website, which sends a text message to MM for a response promptly. Complaints are also added to a public register that is updated monthly. The general population can report complaints to both the company and the Regulator.

Pipeline Project/Modification 1 Approval

- GM enquired if the pipeline had been approved, if there were any changes to the plans, and if there were any caps put on the amount of water that properties involved would be able to extract.
- MM advised that the pipelines are not approved by the Department of Planning. The pipelines are part of Modification 1, which is still in progress, in the assessment stage.
- The last request for information from the Department of Planning concerned biodiversity.
- Public submissions were received, mainly concerning water.
- The response to submissions has been submitted and is available on the major projects website.
- There are no current plans to construct the pipelines to Mirrabinda and Nalya Park in the next financial year. The project currently has enough water for at least 12 months, even without rain.
- The pipeline would extract water from local irrigators south of the river, past Kurrumbede.

New Action C: Agenda item for following meeting, MOD1 Approval, including status update, summary of public submissions received, and advice caps on water extraction which may be placed on properties involved.

Whitehaven Vickery Extension Project Community

Consultative Committee

Responsible: MM

Due: Next CCC Meeting, 24 July 2025

Environmental Management Plans

- The noise management plan has been updated to reflect minor changes in monitoring locations. The updated plan has been submitted but not yet approved.
- Management plans are being updated to a new, more succinct template. The new template aims to be a readable document with mitigation measures in a table which aim to make it easier for external and internal people to see what needs to be done in certain situations.
- The new template will include:
 - Air Quality
 - Aboriginal Cultural Heritage
 - Historic Heritage
 - Koala Plan of Management
- Biodiversity and Water management plans will remain in their old templates because they are complicated documents.
- Updates to the water management plan mainly describe the groundwater monitoring regime and include water related detail for construction of the rail spur and the MIA.
- Air quality management plan changes were made to the new template, but there were no major changes to the actual mitigation measures. The EPA provided feedback on the greenhouse gas element, which may result in some changes for greenhouse gas mitigation.
- MM noted that all approved management plans are on the website.

Wildlife Interactions

- Do you have any queries from your workers regarding wildlife interactions? (AL)
- MM said Wildlife interactions occur from time to time, mostly with kangaroos. If joeys are found, they are taken to the vet or WIRES for care.
- In the clearing of old farm dams, lots of turtles have been found. Ecologists have rescued and released these turtles back in the Namoi or other relevant tributaries. Induction and training packages instruct staff to report any sightings of wildlife, and reports of sightings from operators have been received.

Project Update

Matthew Sparks provided a project update

- Currently, there are four excavators and 12 trucks on site, with three excavators running and one as a backup. Approximately 500 kBCMs (Productivity Capacity Measures) are mined per quarter.
- The financial year will end with approximately 1.4 million tonnes of coal mined.
- The workforce consists of around 160-170 people, which includes the operational workforce of about 112 people, with 20-30 in the workshop. This is not expected to change much in the next financial year.
- The workforce consists of people coming from towns close by, such as Tamworth, but some workers commute from Newcastle and Singleton. There are currently no FIFO arrangements. Workers from Tamworth and further afield drive to the site and then to the camp, and back home after the last shift on their roster.
- Sometimes people are brought over from the Tarrawonga mine to assist.

Whitehaven Vickery Extension Project Community

Consultative Committee

4	Community Update <p>Jabin de Keizer provided an update on Whitehaven's investments in the region</p> <ul style="list-style-type: none">• Organisations supported include Westpac Rescue Helicopter, Little Wings, and Dimmock's children's books. \$236,000 was spent in New South Wales community donations and sponsorships in the quarter.• The Community Investment Committee, which includes community members and Shire Council members funded \$64,000.• \$70,000 was allocated to discretionary sponsorships for sporting teams and community events.• Of 281 applications, 61 were successful, with a focus on communities that host Whitehaven.• In Tamworth, there was a contribution to the Australian Bushmen Camp Draft Rodeo association, and a sponsorship of the Boggy Junior Rugby League club, as well as support for the swimming club and Gunnedah Soccer Club.• Whitehaven is the platinum sponsor for the Women in Mining Committee, which includes a mentoring scheme.• Members were reminded that applications for sponsorships or donations can be made through the community tab on the website, which are then reviewed by the Community Investment Committee. <p>MM advised that the company has new branding, which members will see on future presentations. The logo incorporates the Whitehaven W, made from two triangles.</p>
5	Other business <p>Whitehaven Property and General Business</p> <p>KB provided a statement for the committee. Summary below:</p> <p>Darren Swain, Tony Dwyer, Keith Blanch, and Ambrose Blanch met on the proposed offset (Chair's note: this is "revegetation site") site on February 25. Keith raised concerns that the land is high-value farming country, not suitable for offsets, and is concerned about the ongoing impact on neighboring landowners due to feral animals and fire risk. Keith is hopeful for the opportunity to discuss this further with Whitehaven and the Government, as the land could generate around \$1.2 million in a wheat-growing situation.</p> <p>Keith provided a statement for the committee:</p> <p>"On 25th February Darren Swain & Tony Dwyer met with myself, Keith Blanch & Ambrose Blanch on site of the proposed Wean off-set. In our discussion it was hard moving forward, knowing it was playing a major part in signing off for the Maules Creek extension. Darren, being off the land himself, saw the value of the land and its potential. It was discussed that when it becomes part of Maules Creek environment study it could be reviewed and that an off-set of an off-set could occur. There is a lot of government involvement in selecting lower productive areas for off-sets, leaving the good productive land for future farming. How could they get it so wrong? Another major concern with this Wean off-set is that it joins a landowner for an estimated 3 to 4 kilometers of his boundary. In ten years time this landowner will not be able to farm his land at a profit due to feral animals plus having the threat of getting burnt out due to the fuel load joining him. No different to living next to the Piliga. I hope to have further discussion with Whitehaven moving forwards regarding the Wean off-set and talking to government bodies, trying to work out what went wrong, only</p>

Whitehaven Vickery Extension Project Community

Consultative Committee

	<p>with Whitehaven permission. In a good farming program growing wheat over a two-year period, this 2000 acres could have the potential of a turnover of \$1.2M with three quarters of that going towards costs, leaving the remainder for the grower. All this money gets recycled back into the local community.”</p> <p>RR thanked KB for this statement.</p> <p>MM expanded on this discussion stating that the offset is being put forward as part of nature positive reforms. It's not an offset at the moment, but the outcome is the same: the land won't be cropped.</p> <p>Members raised the question about why the offset is in Blanching's area and not closer to Maules Creek mine.</p> <p>KB asked about the process to have this re-evaluated. MM clarified that this is part of the Maules Creek continuation project, a new EIS, separate from the current Maules Creek project approval. The EIS has been submitted and will go on exhibition, at which point submissions can be made. Submissions can address concerns about the land's productive agricultural use after mining.</p> <p>RR stated that this is a bigger initiative where NSW government is focused on enabling post-mining productive land use, not just rehabilitation. Submissions to the EIS are needed to support this idea.</p> <p>JdK highlighted the Nature Positive Plan the and NSW and Federal government's support of the 30x30 targets for NSW. RR agreed that these sort of environmental targets are creating tension. RR encouraged a submission by KB to the EIS, via the Chair of the CCC for Maules Creek, Michael Silver.</p> <p>KB advised that "As a lessee of Whitehaven I cannot stop them or get in their road of any submissions they want to do."</p> <p>RR added that it is a good time to discuss post-mining land use, aiming to avoid locking up land that could be used for other purposes and that delaying these discussions for 20 years is not advisable due to potential changes in the political and policy landscape.</p> <p>New Action D: KB to provide drafted notes for submission to ZMC and RR, which will be prepared and submitted by the Independent Chair to the Maules Creek mine CCC chair. Responsible: KB, ZMC, RR Due: ASAP</p> <p>RR wrapped up the meeting, thanking attendees for their input and for hosting the site visit.</p>
6	Next meeting
	The next meeting will be held Thursday 24 July, 12-2pm Gunnedah Town Office and online via Zoom

Vickery Coal Mine Community Consultative Committee Meeting #22

Quarterly Environmental Monitoring Report
Jan, 2025 – March, 2025



Vickery Project

This report has been prepared for the Community Consultative Committee (CCC) meeting to show environmental monitoring performance at Vickery Coal Mine (VCM) for the reporting period from January 2025 to March 2025.

Noise Monitoring

Attended noise was conducted during this period.

Attended noise monitoring was conducted at “Lanreef” (N-AT2) and “Broadwater” (N-AT1) properties once a month during this reporting period. Noise criteria for the mine is 40dB(A) Leq (15 min) during day time and 35dB(A) Leq (15 min) during evening/night time and 52 LA_{max} for instantaneous night readings. Please refer to EPL Monitoring locations map in Appendix B for the location of these monitoring points.

Results below show that noise emissions from the mine did not exceed operational criteria at “Lanreef” or “Broadwater” monitoring locations during the monitoring period.

Table 1 January 2025 Attended Noise Monitoring

Table 4 VCM Operational Noise Monitoring Results Leq(15min) – 22 nd January 2025 (Day)								
Location	Time	dB(A), Leq	VCM Contribution dB(A),Leq	Criterion dB(A),Leq	Wind speed (m/s),dir	Stability Class	Identified Noise Sources dB(A),Leq	Exceedance (Yes/No)
N-AT1 / 7	1:04pm	31	IA	45 ¹	6.1 / 331	D	Birds (29), cows (24), insects (22), VCM (IA)	No
N-AT2 / 8	3:03pm	27	IA	45 ¹	5.7 / 317	D	Birds (23), traffic (23), insects (20), VCM (IA)	No
Table 5 VCM Operational Noise Monitoring Results Leq(15min) – 22 nd January 2025 (Evening)								
Location	Time	dB(A), Leq	VCM Contribution dB(A),Leq	Criterion dB(A),Leq	Wind speed (m/s),dir	Stability Class	Identified Noise Sources dB(A),Leq	Exceedance (Yes/No)
N-AT1 / 7	6:13pm	26	IA	40 ¹	4.3 / 325	D	Birds (26), VCM (IA)	No
N-AT2 / 8	7:30pm	47	IA	42 ¹	3.7 / 346	E	Traffic (47), insects (32), VCM (IA)	No
Table 6 VCM Operational Noise Monitoring Results Leq(15min) – 22 nd January 2025 (Night)								
Location	Time	dB(A), Leq	VCM Contribution dB(A),Leq	Criterion dB(A),Leq	Wind speed (m/s),dir	Stability Class	Identified Noise Sources dB(A),Leq	Exceedance (Yes/No)
N-AT1 / 7	11:39pm	31	26	40 ¹	5.7 / 134	D	Insects (29), VCM (26)	No
N-AT2 / 8	10:05pm	40	IA	42 ¹	3.2 / 119	E	Traffic (39), insects (33), VCM (IA)	No
Table 7 VCM Operational Noise Monitoring Results LA _{max} – 22 nd January 2025								
Location	Time	dB(A), LA _{max}	VCM Contribution dB(A), LA _{max}	Criterion dB(A), LA _{max}	Wind speed (m/s),dir	Stability Class	LA _{max} Noise Source	Exceedance (Yes/No)

N-AT1 / 7	11:39pm	49	30	57 ¹	5.7 / 134	D	Insects	No
N-AT2 / 8	10:05pm	52	IA	57 ¹	3.2 / 119	E	Car	No

Table 2 February 2025 Attended Noise Monitoring

Table 4
VCM Operational Noise Monitoring Results Leq(15min) – 14th February 2025 (Day)

Location	Time	dB(A), Leq	VCM Contribution dB(A),Leq	Criterion dB(A),Leq	Wind speed (m/s),dir	Stability Class	Identified Noise Sources dB(A),Leq	Exceedance (Yes/No)
N-AT1 / 7	12:00pm	36	IA	40	2.5 / 297	B	Birds (36), insects (24), VCM (IA)	No
N-AT2 / 8	9:33am	42	IA	40	1.6 / 123	A	Birds (39), insects (36), traffic (36), VCM (IA)	No

Table 5
VCM Operational Noise Monitoring Results Leq(15min) – 13th February 2025 (Evening)

Location	Time	dB(A), Leq	VCM Contribution dB(A),Leq	Criterion dB(A),Leq	Wind speed (m/s),dir	Stability Class	Identified Noise Sources dB(A),Leq	Exceedance (Yes/No)
N-AT1 / 7	6:04pm	42	IA	40 ¹	3.6 / 061	D	Traffic (42), birds (23), VCM (IA)	No
N-AT2 / 8	7:15pm	42	IA	42 ¹	3.7 / 290	D	Traffic (40), birds (35), insects (32), VCM (IA)	No

Table 6
VCM Operational Noise Monitoring Results Leq(15min) – 13th February 2025 (Night)

Location	Time	dB(A), Leq	VCM Contribution dB(A),Leq	Criterion dB(A),Leq	Wind speed (m/s),dir	Stability Class	Identified Noise Sources dB(A),Leq	Exceedance (Yes/No)
N-AT1 / 7	11:49pm	35	22	35	1.5 / 113	E	Insects (35), VCM (22)	No
N-AT2 / 8	10:03pm	39	IA	37	1.2 / 097	E	Insects (36), traffic (36), VCM (IA)	No

Table 7
VCM Operational Noise Monitoring Results LA_{max} – 13th February 2025

Location	Time	dB(A), LA _{max}	VCM Contribution dB(A), LA _{max}	Criterion dB(A), LA _{max}	Wind speed (m/s),dir	Stability Class	LA _{max} Noise Source	Exceedance (Yes/No)
N-AT1 / 7	11:49pm	46	26	52	1.5 / 113	E	Insects	No
N-AT2 / 8	10:03pm	50	IA	52	1.2 / 097	E	Insects	No

Table 3 March 2025 Attended Noise Monitoring

Table 4 VCM Operational Noise Monitoring Results Leq(15min) – 18 March 2025 (Day)								
Location	Time	dB(A), Leq	VCM Contribution dB(A),Leq	Criterion dB(A),Leq	Wind speed (m/s),dir	Stability Class	Identified Noise Sources dB(A),Leq	Exceedance (Yes/No)
N-AT1 / 7	1:49 pm	42	IA	45	2.7 / 241	D	Wind (39), birds (39), VCM (IA)	No
N-AT2 / 8	4:09 pm	38	IA	45	1.9 / 242	D	Wind (38), traffic (28), VCM (IA)	No
Table 5 VCM Operational Noise Monitoring Results Leq(15min) – 18 March 2025 (Evening)								
Location	Time	dB(A), Leq	VCM Contribution dB(A),Leq	Criterion dB(A),Leq	Wind speed (m/s),dir	Stability Class	Identified Noise Sources dB(A),Leq	Exceedance (Yes/No)
N-AT1 / 7	9:19 pm	42	IA	40	4.3 / 146	D	Wind (41), Insects (32), VCM (28)	No
N-AT2 / 8	8:11 pm	40	IA	42	3.8 / 131	D	Traffic (38), insects (33), VCM (IA)	No
Table 6 VCM Operational Noise Monitoring Results Leq(15min) – 18 March 2025 (Night)								
Location	Time	dB(A), Leq	VCM Contribution dB(A),Leq	Criterion dB(A),Leq	Wind speed (m/s),dir	Stability Class	Identified Noise Sources dB(A),Leq	Exceedance (Yes/No)
N-AT1 / 7	10:03 pm	44	IA	40	5.0 / 140	E	Wind (44), plane (31) VCM (28)	No
N-AT2 / 8	11:46 pm	39	IA	42	3.7 / 128	D	Wind (38) Traffic (29), VCM (25)	No
Table 7 VCM Operational Noise Monitoring Results LA _{max} – 18 March 2025								
Location	Time	dB(A), LA _{max}	VCM Contribution dB(A), LA _{max}	Criterion dB(A), LA _{max}	Wind speed (m/s),dir	Stability Class	LA _{max} Noise Source	Exceedance (Yes/No)
N-AT1 / 7	10:03 pm	53	IA	57	5.0 / 140	E	Wind	No
N-AT2 / 8	11:46 pm	67	IA	57	3.7 / 128	D	Birds	No

The real time noise monitor located on the “Long Way Round” property remains a management tool, so the noise criteria are not applicable at that site. Levels of noise recorded at that location are managed according to the noise management plan and trigger action response plan.

An additional real time noise monitor has been installed closer to the mine site, at Broadwater property.

Blast Monitoring

Blasting Results

There has been 14 Blasts at VCM from 1st January to 31st March 2025.

The highest recorded overpressure for the reporting period was 115.40dBL recorded at B-02 monitor on the 25/02/2025.

The highest recorded ground vibration for the reporting period was 2.47mm/s recorded at B-02 monitor on the 29/01/2025.

VCM overpressure and ground vibration for the quarter was compliant and did not exceed the blasting criteria declared in the project approval and Blast Management Plan (BMP). Please refer to EPL Monitoring locations map in Appendix B for the location of these monitoring points.

Table 4 Max Peak Overpressure and Ground Pressure for the Quarter

Monitor Location	Date	Max. Peak Overpressure (dB)	Criterion (dB)	Date	Max. Peak Ground Pressure (mm/s)	Criterion (mm/s)
B-01	25/02/2025	11.60	133	29/01/2025	0.63	10
B-02	25/02/2025	115.40	N/A	29/01/2025	2.47	80
B-03	08/01/2025	113.10	120	29/01/2025	0.48	10

Air Quality Monitoring

Dust Deposition Results

Standard Australia AS/NZS 3580.10.1:2016, "Methods for sampling and analysis of ambient air – Determination of particulate matter – Deposited matter – Gravimetric Method," classifies deposited dust as insoluble solids. Therefore, VCM tests air quality monthly at mine-owned sites for indicative purposes, to infer compliance, against the limit of 4 g/m²/month.

Table 5 shows deposited dust gauge results over 12 months. All dust monitors that are located on project related or WHC owned land; as such compliance criteria (4g/m²/month) do not apply. While deposited dust trends remain steady during the reporting period (refer graph in *Appendix A*), some monitors are displaying non-mine related particulate matter deposition more regularly than others. Non-mine related particulate matter could be attributed to organic matter (such as leaves, mice, frogs, insects or bird faeces that fall in to the bottles), or they may be in farming locations, so during some months dust levels may be higher due to harvesting. Please refer to Dust Deposition Gauges Monitoring locations map in Appendix B for the location of these monitoring points.

Table 5 Deposited Gauge Results [g/m2/month]

Month	D1	D2	D12	D13B	DG1	DG2	V1	V2	V3	V4	V5
Apr-24	1.5	0.8	1.3	4.1	0.6	0.8	0.3	0.5	0.6	1.2	2.5
May-24	0.9	1.4	2.1	0.9	1	1.9	0.8	0.7	2.3	1.1	1.8
Jun-24	2.7	0.1	1.2	0.1	0.6	0.3	0.3	0.1	0.1	0.4	0.4
Jul-24	0.4	0.7	0.3	0.4	0.9	0.6	0.6	0.3	1.8	1	0.6
Aug-24	0.5	0.2	0.2	0.2	1.4	0.4	0.9	0.3	6.7	0.5	0.4
Sep-24	1.7	0.4	0.3	0.5	3.1	0.5	0.5	0.5	0.5	0.6	0.4
Oct-24	0.4	0.1	0.2	1	0.7	0.4	0.4	0.6	0.5	1.8	0.5
Nov-24	1.3	0.7	0.9	1	1.6	2.1	0.7	0.2	3.9	1.1	1.3
Dec-24	0.4	0.8	1.8	2	2.5	0.5	2.2	0.7	8.7	1.3	4.0
Jan-25	0.3	2.2	0.8	2.2	1.8	0.9	1.4	0.9	5	1	5
Feb-25	1.2	1.8	1.9	2.0	1.5	1.7	2.1	1.6	1.4	2.3	2.7
Mar-25	0.2	0.1	0.1	0.3	0.2	0.2	0.1	0.1	0.1	3	2.3
Average	1.0	0.8	0.9	1.2	1.3	0.9	0.9	0.5	2.6	1.3	1.8

Real-time Air Monitoring (PM_{2.5} and PM₁₀)

Two real-time air quality monitoring units are located on private property adjacent to the Vickery Coal Mine. PM1 is located at Lanreef and PM2 at Mirrabinda to the south and south-west of the operations. These are used as both a compliance and an operational management tool. Dust levels nearing or reaching the nominated criteria will trigger actions onsite to assess the source of dust and modify operations if it is determined to be related to Vickery operations. Additional air quality monitoring units are located at Wil-gai and Roseberry and these are used for additional information and operational management in accordance with the Vickery Air Quality Management Plan. These units are also associated with other regional operations at Tarrawonga and Rocglen. Please refer to Air Quality Monitoring locations map in Appendix B for the location of these monitoring points.



Figure 1: TEOM installed at Lanreef

Water Monitoring

Groundwater

Routine groundwater monitoring has been conducted 6 monthly since 2021 and quarterly since 2023. In October 2023, Hydra-sleeve monitoring was introduced to Vickery's groundwater bores. Appendix C contains the Hydrographs for Vickery's GW bores. Monitoring indicates stable GW levels. Water quality data in a few bores is showing a departure from the interim trigger levels. This will assist to inform the development of the final trigger levels for GW monitoring as described in the Water MP. As mining below the water table has only just begun to occur any triggers of the interim TARP are due to the background levels naturally being different to the generic triggers sourced from external benchmarks. Please refer to Groundwater Monitoring locations map in Appendix B for the location of these monitoring points.

Surface Water

Water storage onsite is expected to be sufficient for at least 12 months. VCM has not undertaken any discharges during the period. Please refer to EPL Monitoring locations map in Appendix B for the location of these monitoring points.

Table 6 Surface Water Results for January, February and March

January	Namoi DS 1	Namoi DS 2	Namoi DS 3	Namoi US
pH	8.2	8.28	8.26	8.3
Electrical Conductivity (µS/cm)	492	496	493	489
TSS	30	20	23	42
Oil & Grease (mg/L)	<5	<5	<5	<5
February	Namoi DS 1	Namoi DS 2	Namoi DS 3	Namoi US
pH	8.16	8.09	8.02	7.95
Electrical Conductivity (µS/cm)	494	496	506	498
TSS	24	21	28	44
Oil & Grease (mg/L)	<5	<5	<5	<5
March	Namoi DS 1	Namoi DS 2	Namoi DS 3	Namoi US
pH	8.1	8.01	8.14	8.07
Electrical Conductivity (µS/cm)	615	555	561	540
TSS	23	17	29	28
Oil & Grease (mg/L)	<5	<5	<5	<5

February	MWD2
pH	8.4
Electrical Conductivity (µS/cm)	4610
TSS	15
Oil & Grease (mg/L)	<5

VCM has recorded **258.4mm** of rain for 2025 at our MET 2 weather station.

Table 7 Annual Rainfall

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Monthly Rain (mm)	18.8	22	217.6										258.4
Cumulative (mm)	18.8	40.8	258.4										

Clearing

Clearing is currently ongoing at Vickery, approximately 560ha have been cleared during FY24. Topsoil and Subsoil is being stored separately in designated stockpiles areas. The stockpiles will be ripped and seeded to maintain viability for rehabilitation.



Figure 2: Image of recent clearing and soil stockpiles

Complaints

One complaint was received during the reporting period.

This complaint was related to lighting. All matters have been resolved satisfactorily.

Approvals

The last Environmental Protection Licence (EPL) Variation was received on the 31st May 2024.

An application to transfer this licence to another WHC owned entity has been submitted and approved. This is for internal WHC administrative purposes. The new holding entity is named 'Vickery Coal Operations Pty Ltd'.

Environmental Management Plans

Approvals

All the currently approved Management Plans are available on the WHC website.

The Noise Management plan has been submitted to DPHI for review and will be finalised following approval.

The Air Quality and Greenhouse Gas Management Plan was submitted to the DPHI, comments were received and has now been re-submitted.

Biodiversity Management Plan has been submitted to DPHI for review and will be finalised following approval.

The Waste Management Plan was submitted to the DPHI, comments were received and has now been re-submitted.

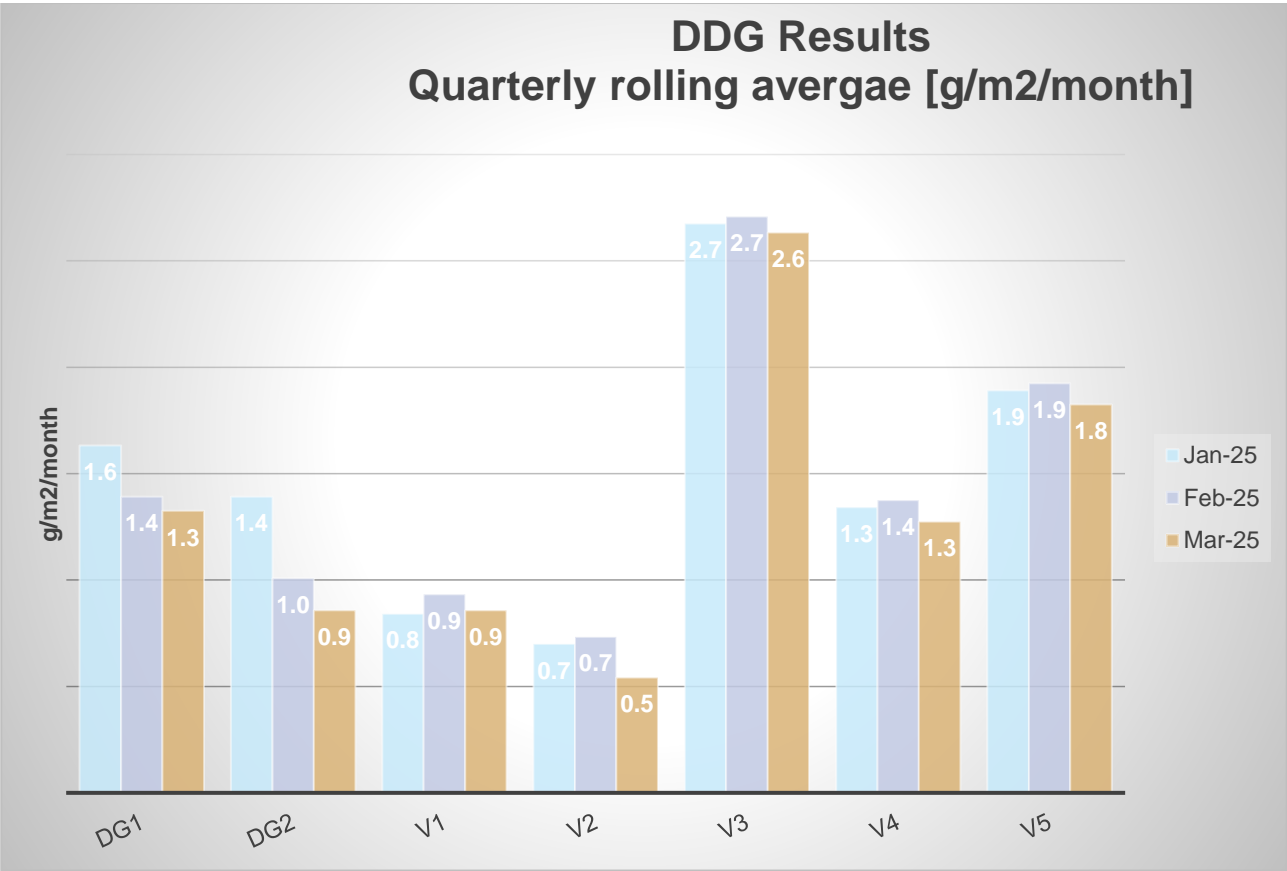
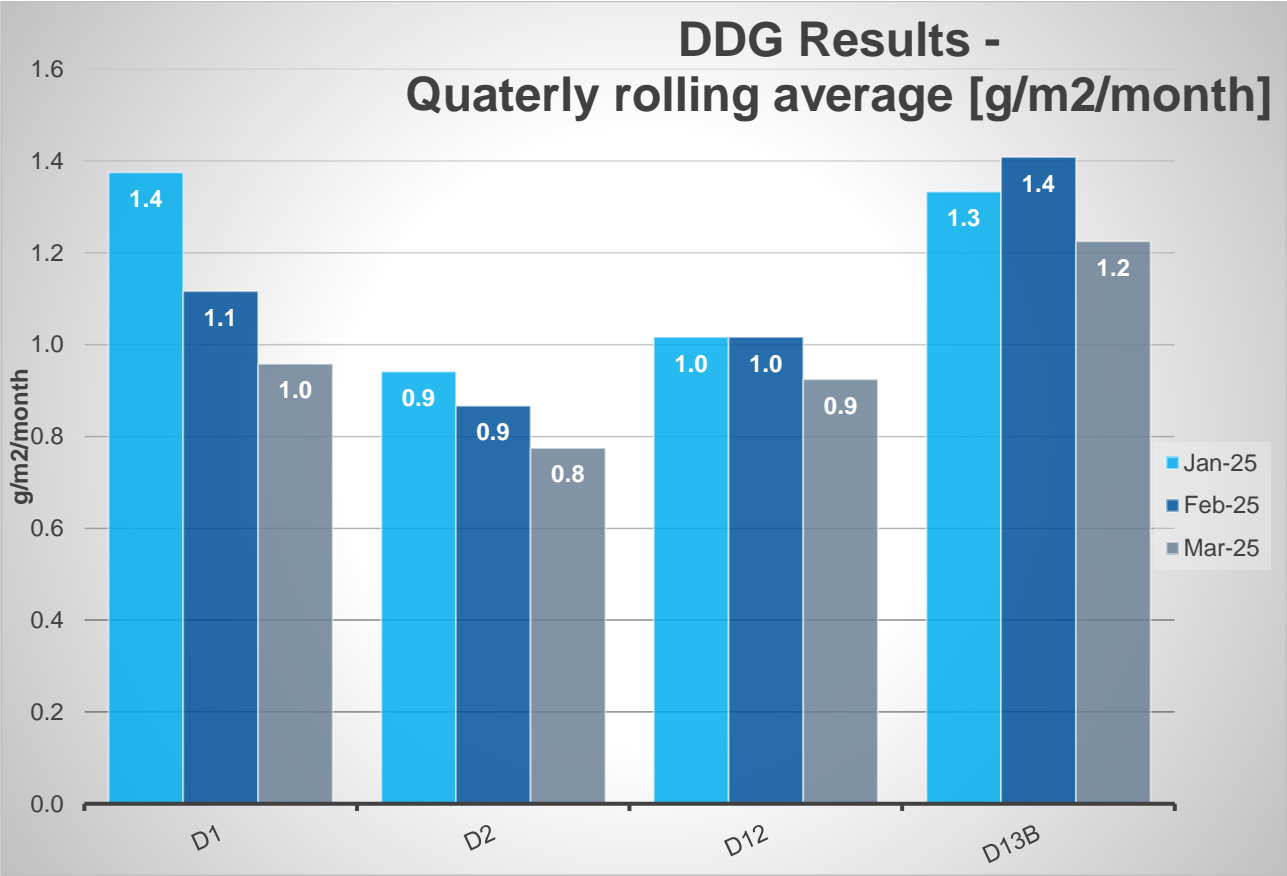
MOD1 was submitted in August 2024 and is at the assessment stage. As described in April 2024 at the CCC meeting this Modification is to:

- amend the Blue Vale Road realignment to a lesser impact;
- to allow the export of gravel from the VEP in line with existing approvals at Tarrawonga and the original Vickery Coal Project (SSD-5000);
- Construction and use of water pipelines from additional existing groundwater bores and to the Rocglen Coal Mine;
- Potential relinquishment of the secondary infrastructure area;
- A temporary access road and additional soil stockpile area;
- Temporary concrete batching plant;
- Disposal of waste heavy vehicle tyres;
- Reduction to the open cut extent and improved waste rock emplacement and landform design;
- Extended ROM coal road haulage hours to align with the Tarrawonga Modification 10; and
- Schedule of Lands update.

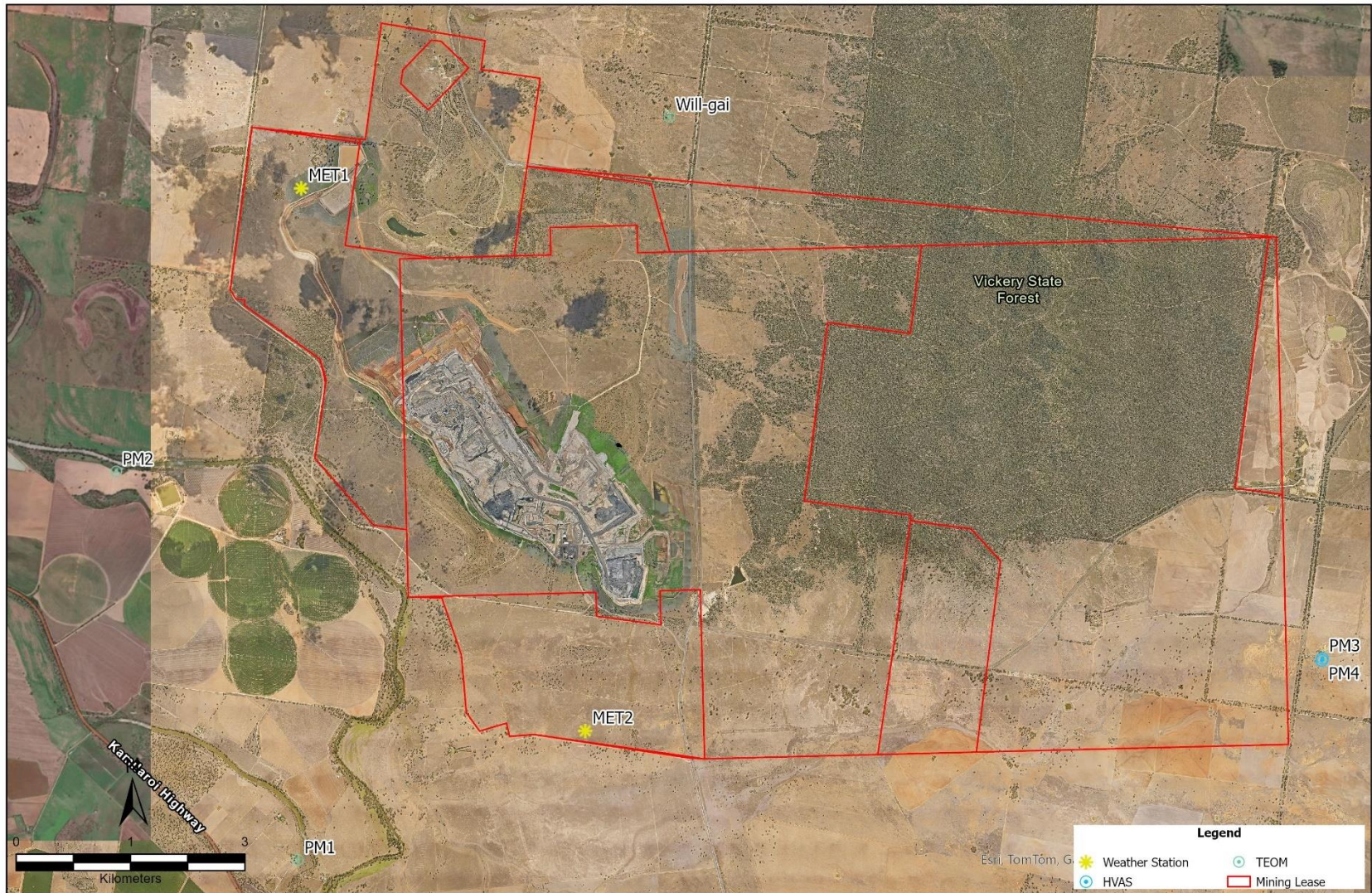
Proposed amendments

The Blast Management Plan and Koala Management Plan is scheduled for review and updating. Heritage and Aboriginal Cultural Heritage Management Plans will follow these reviews.

Appendix A

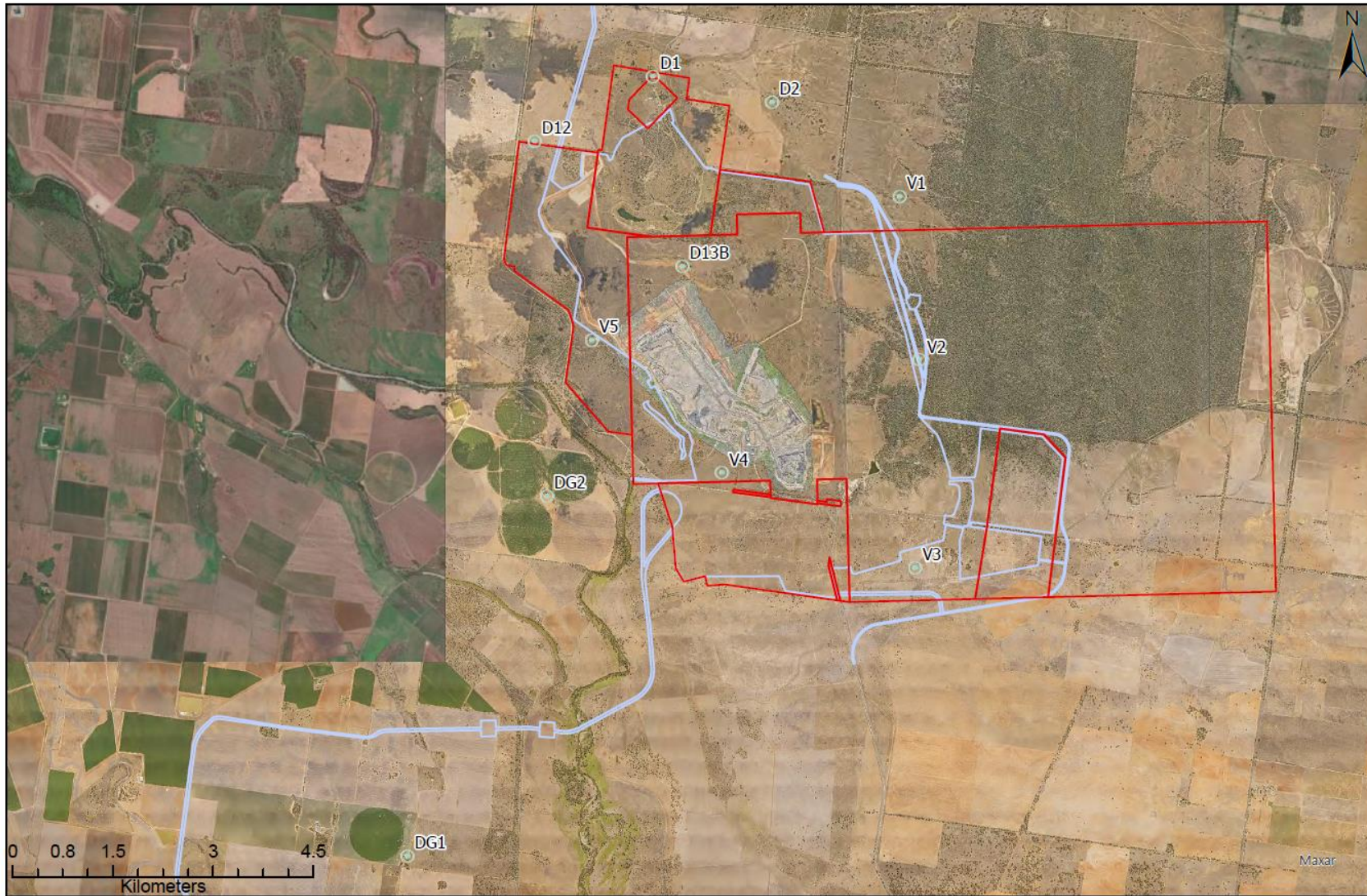


Appendix B



**Vickery Coal Mine
Air Quality Monitoring Locations**

Date: Oct 2024 Scale: 1:51,000
MGA Zone 56 Author: A. Quiroz

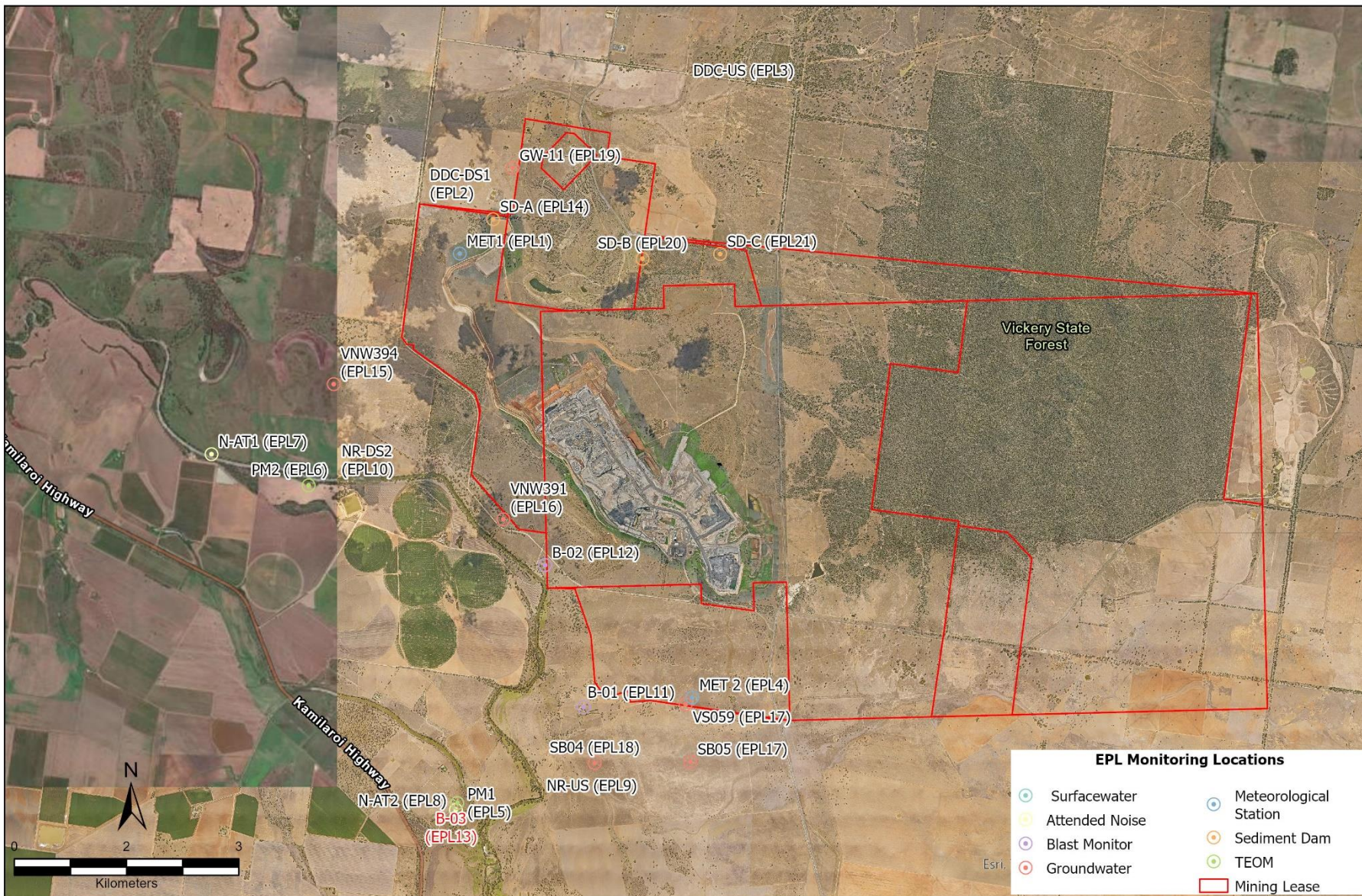


Dust Deposition Gauges Monitoring Locations

Date: Jun 2024
 MGA Zone 56
 Scale: 1:70,000
 Author: A. Quiroz

Legend	
	DDGs
	Mining Lease
	Approved Disturbance Area

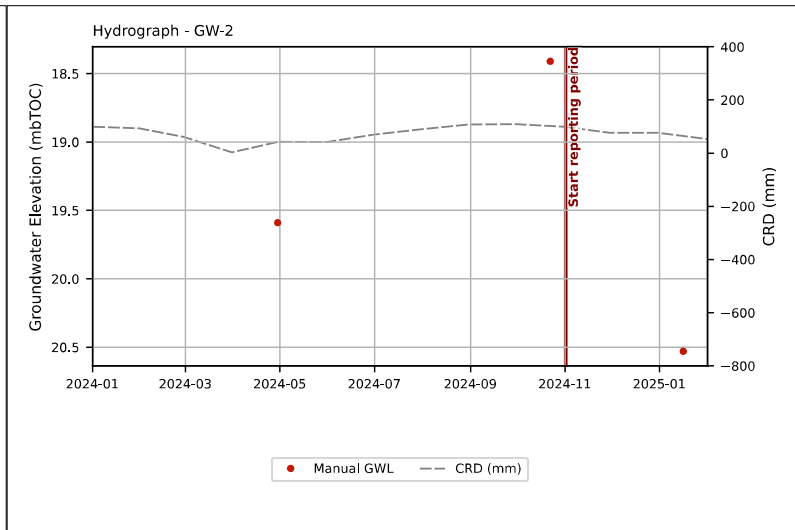
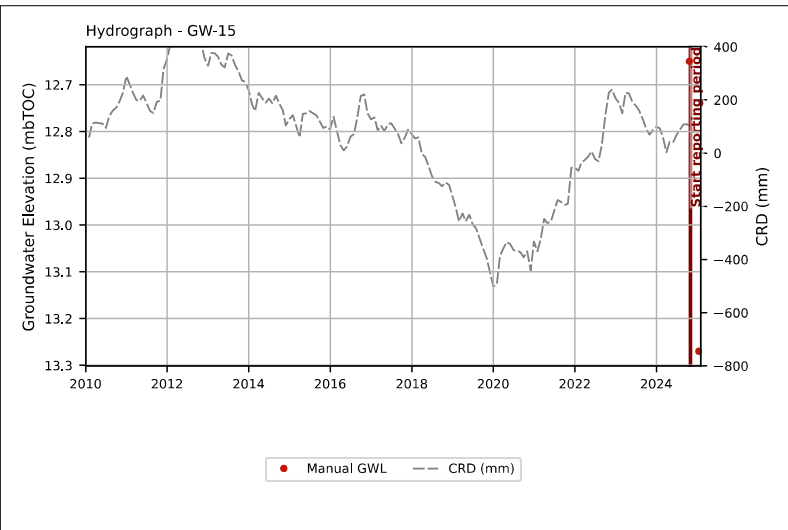
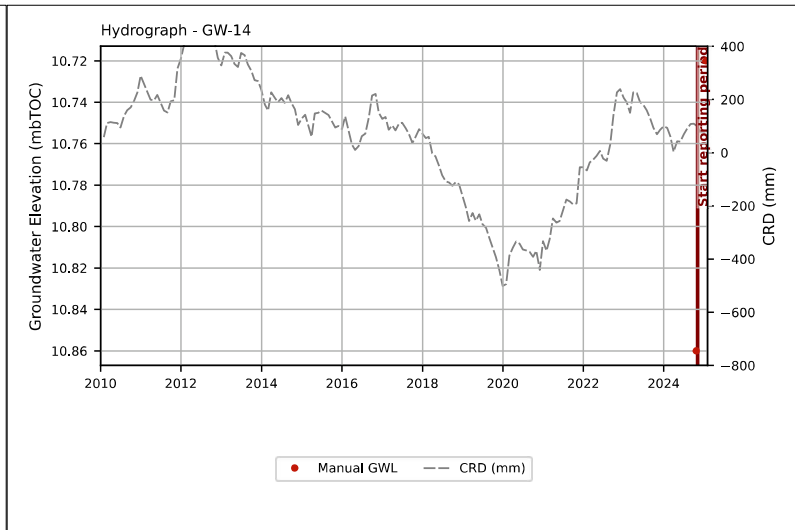
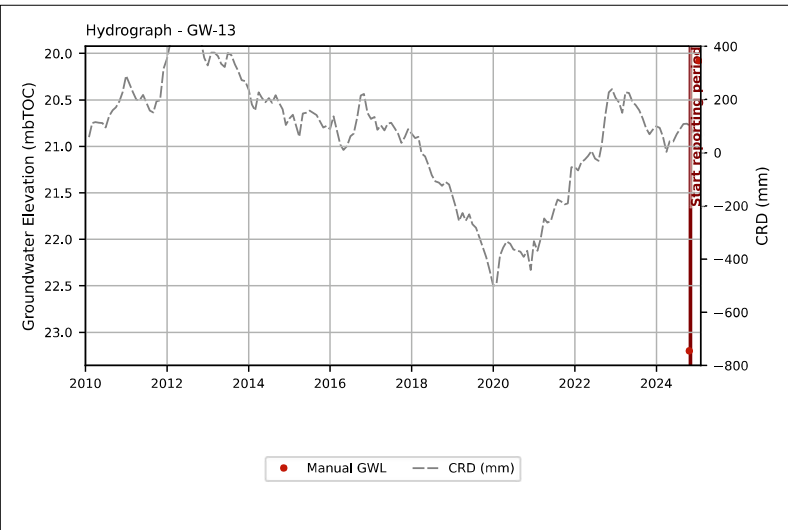
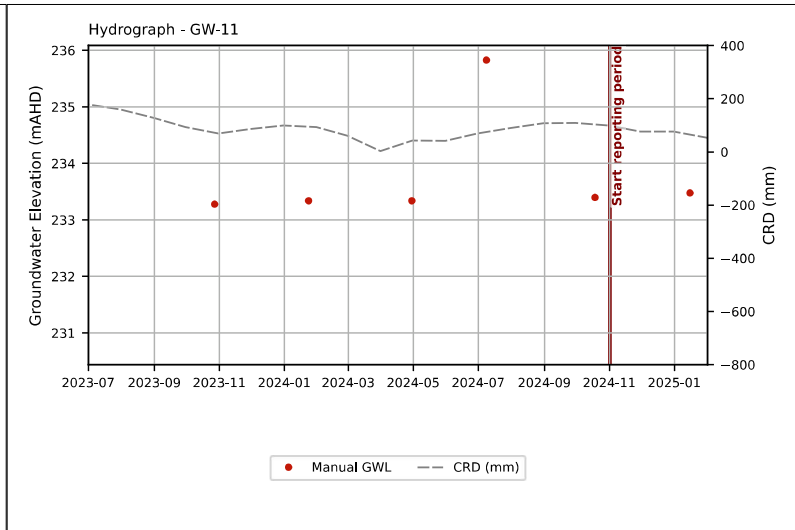
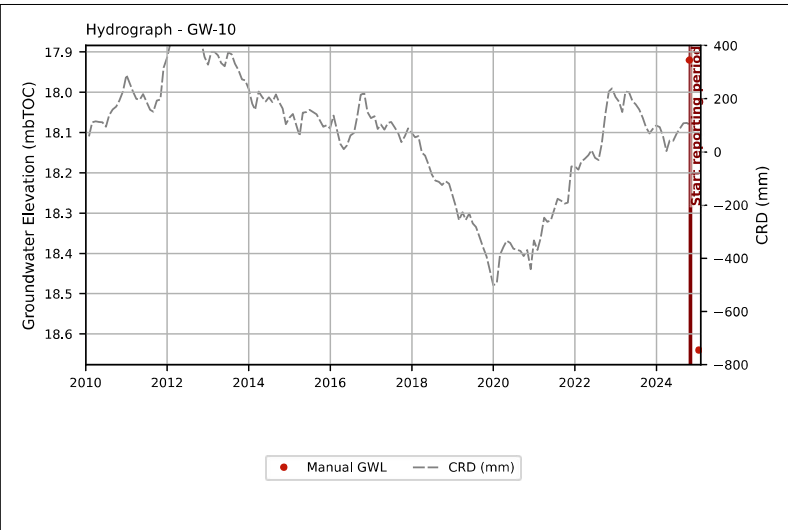


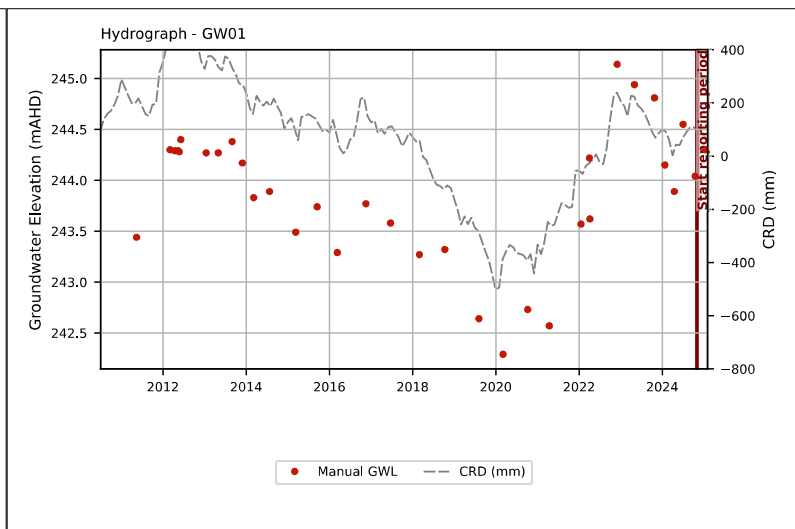
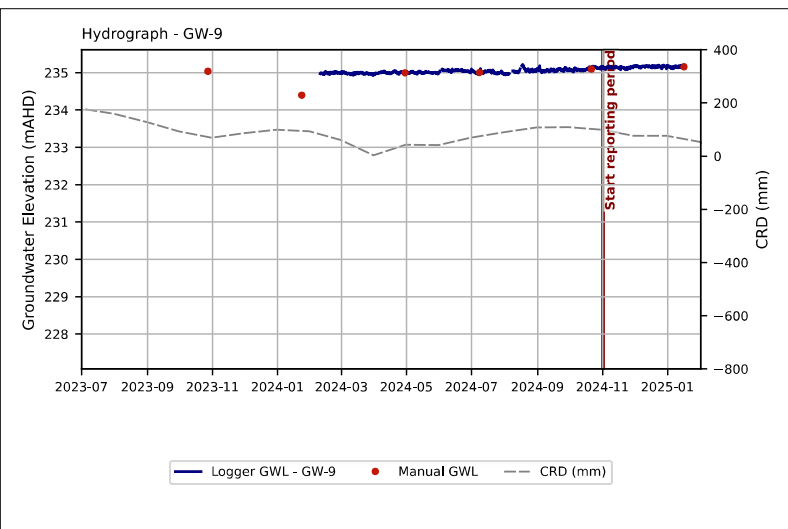
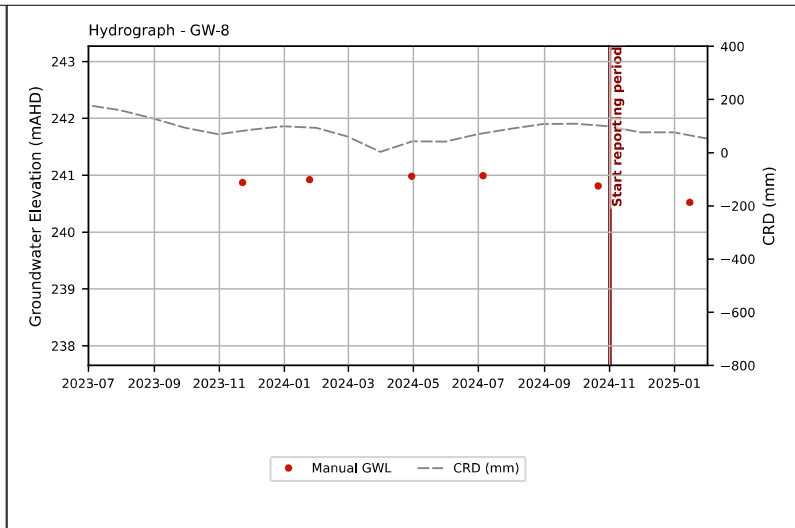
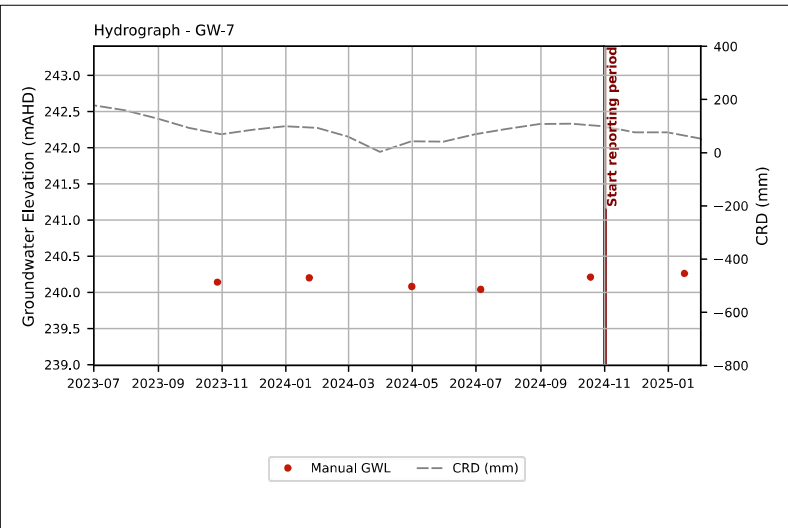
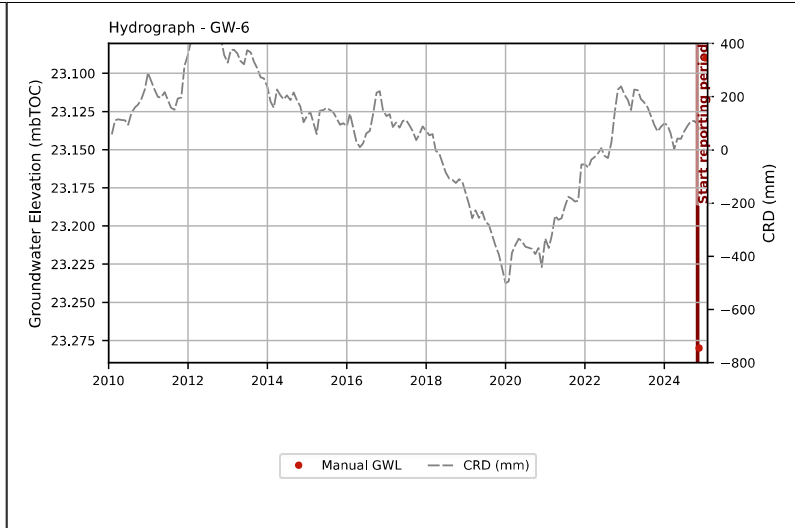
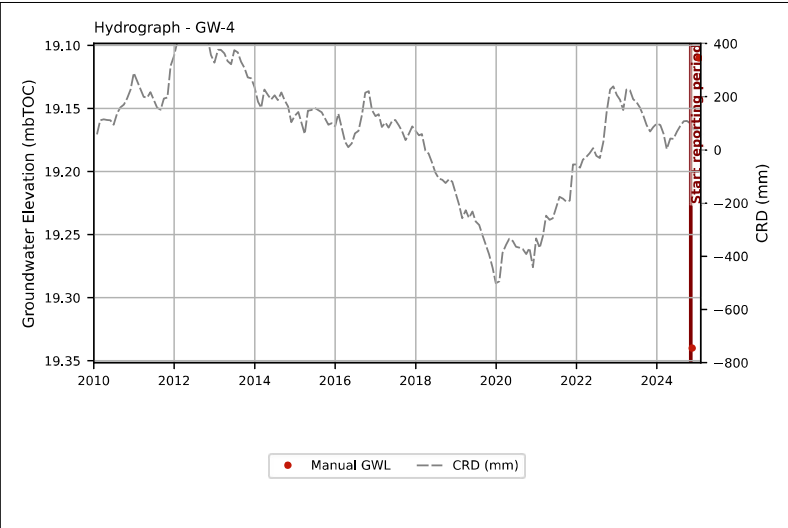


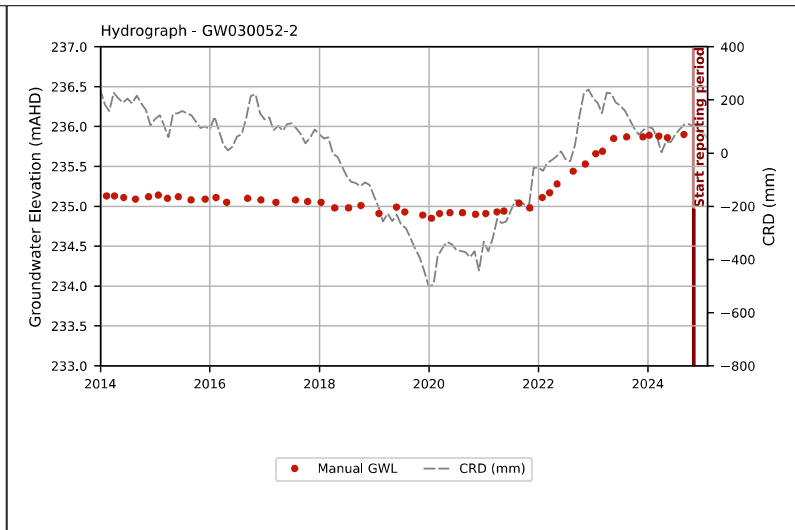
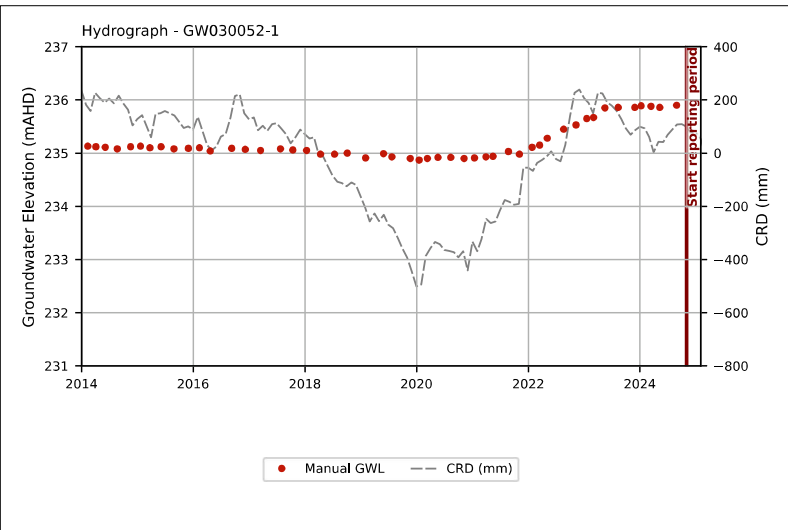
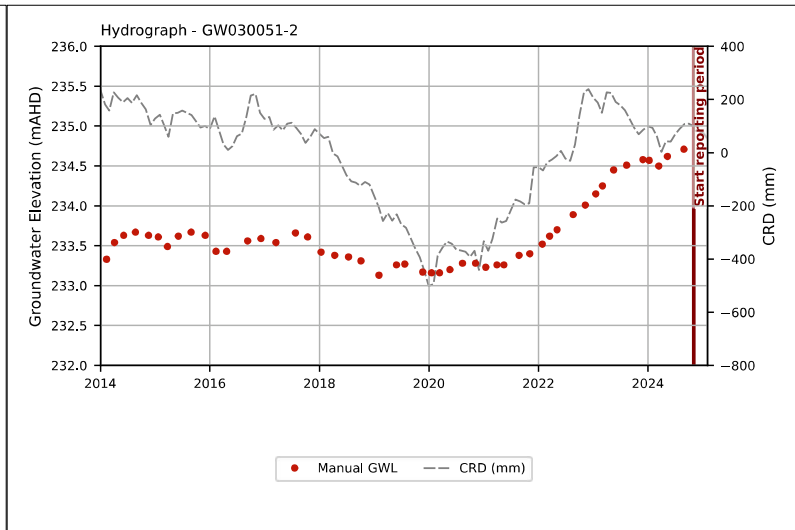
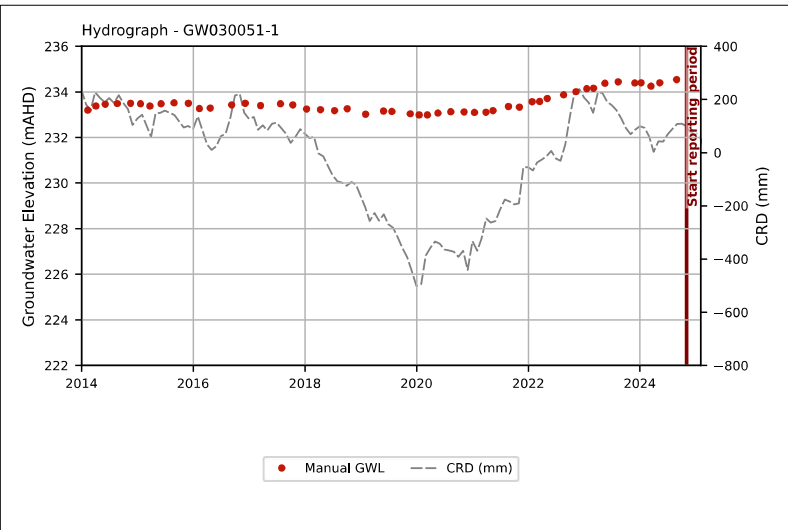
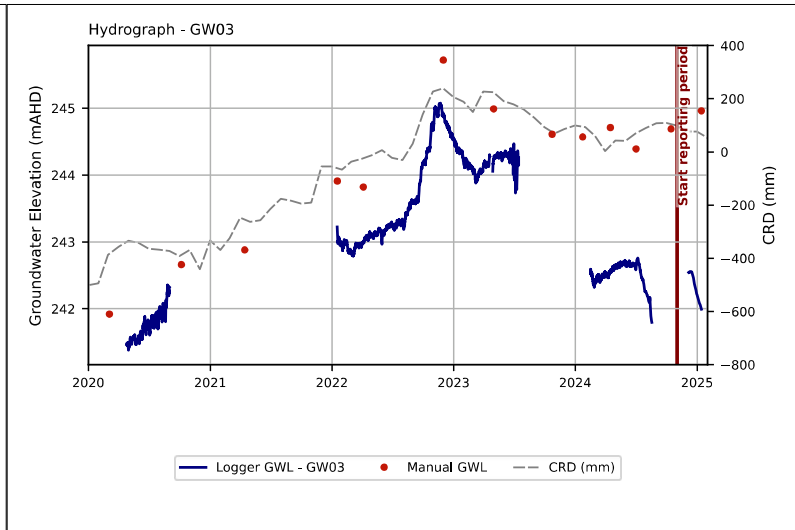
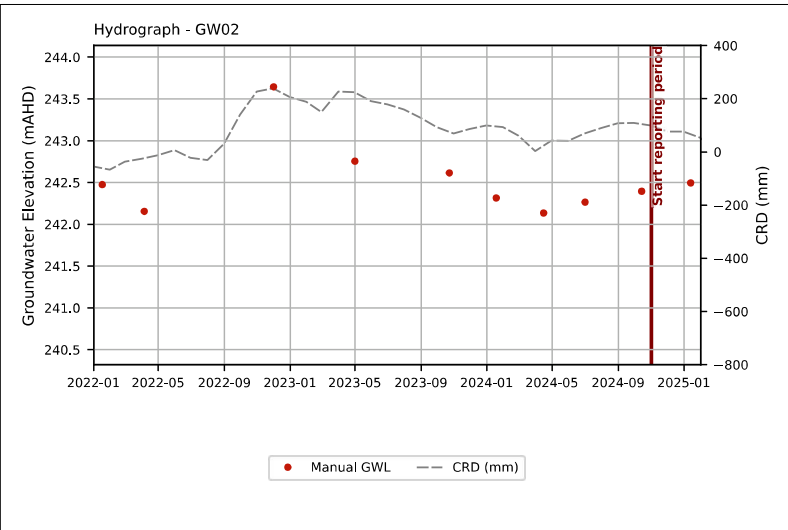
Vickery Coal Mine EPL Monitoring Locations

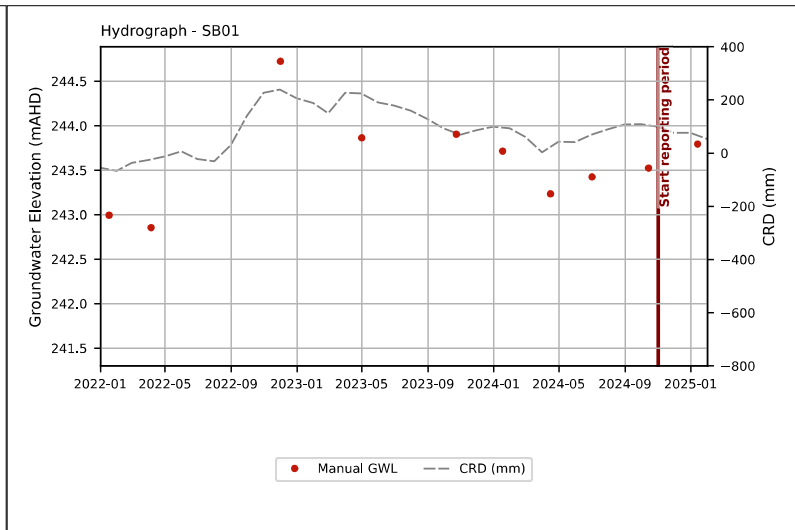
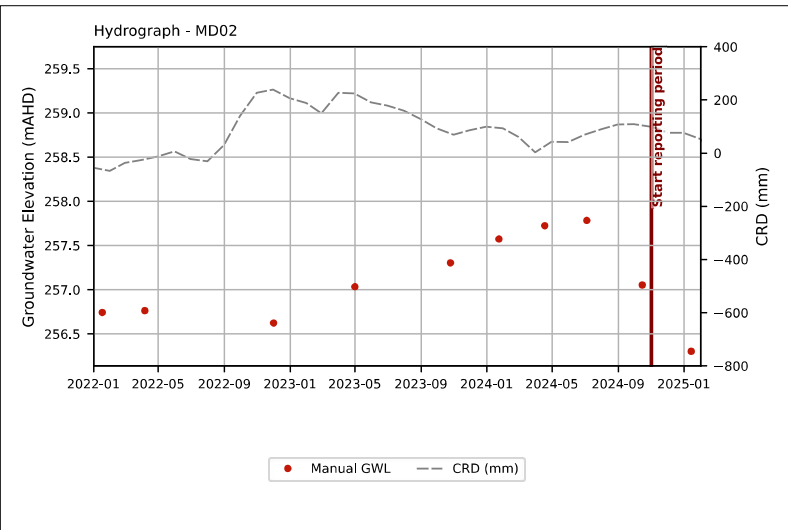
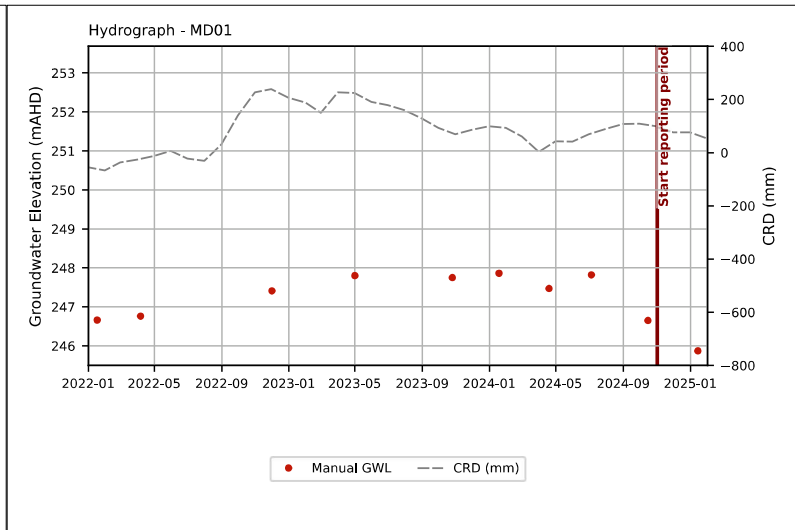
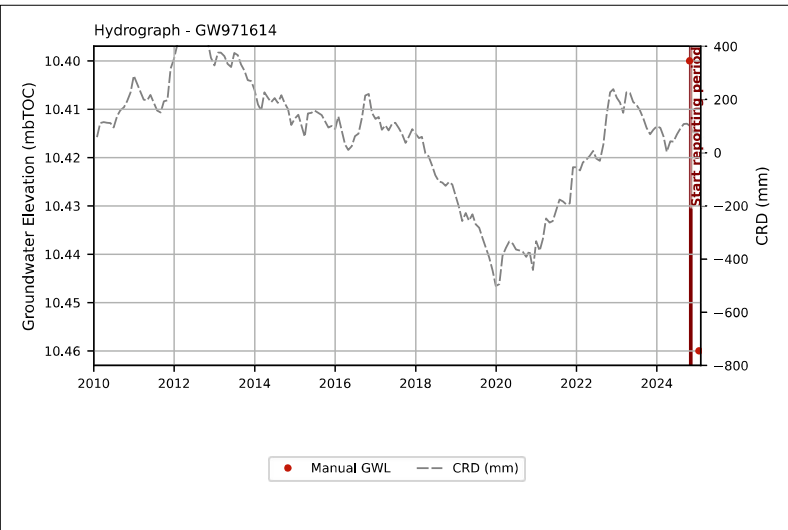
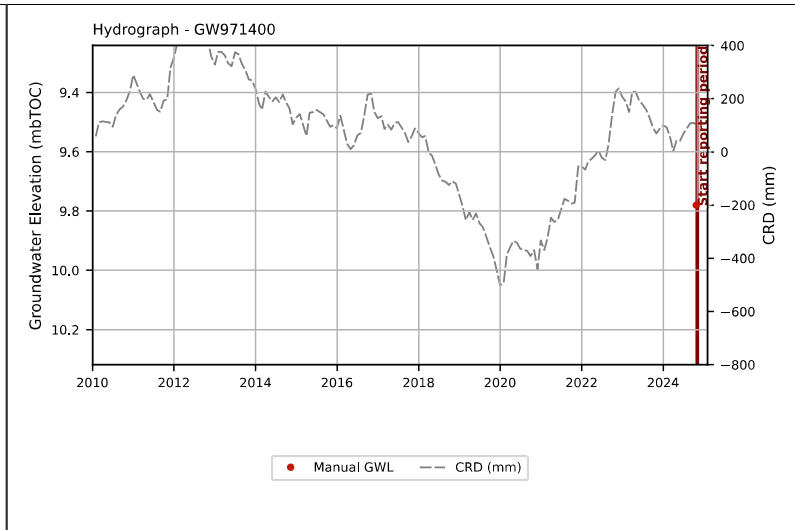
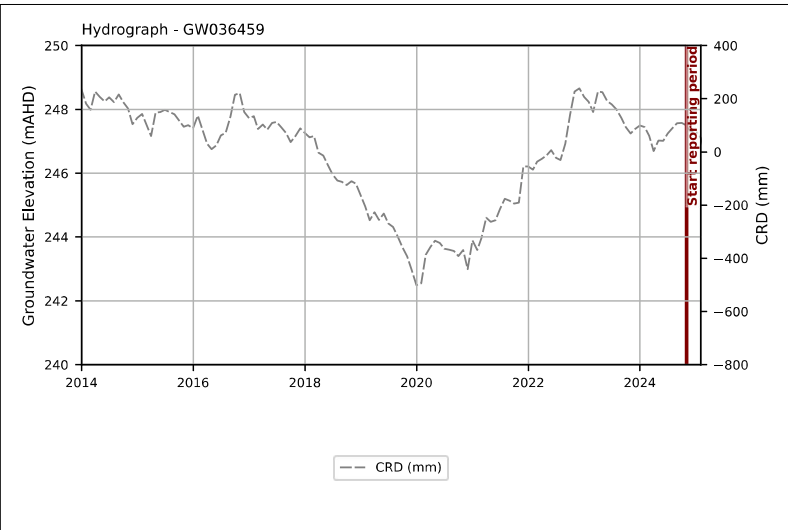
Date: Oct 2024 Scale: 1:51,000
 MGA Zone 56 Author: A. Quiroz

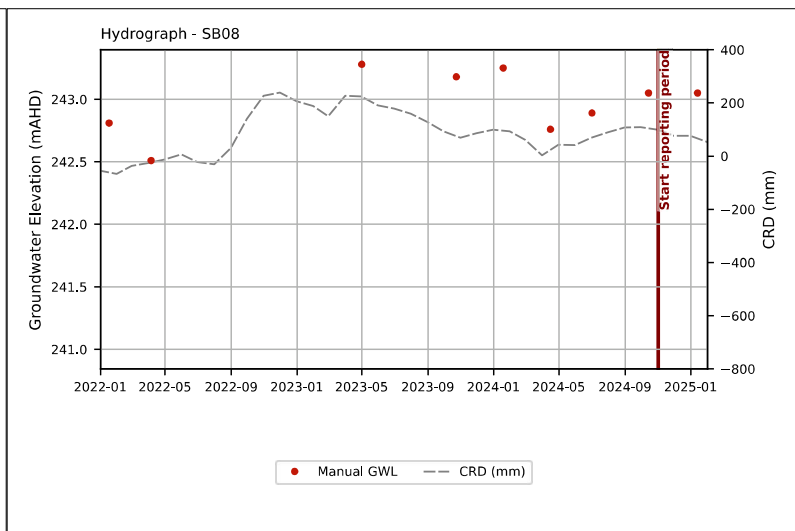
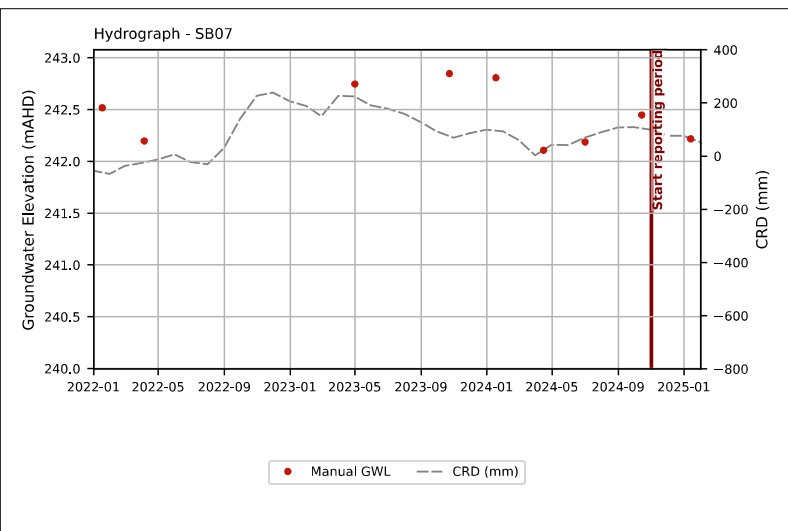
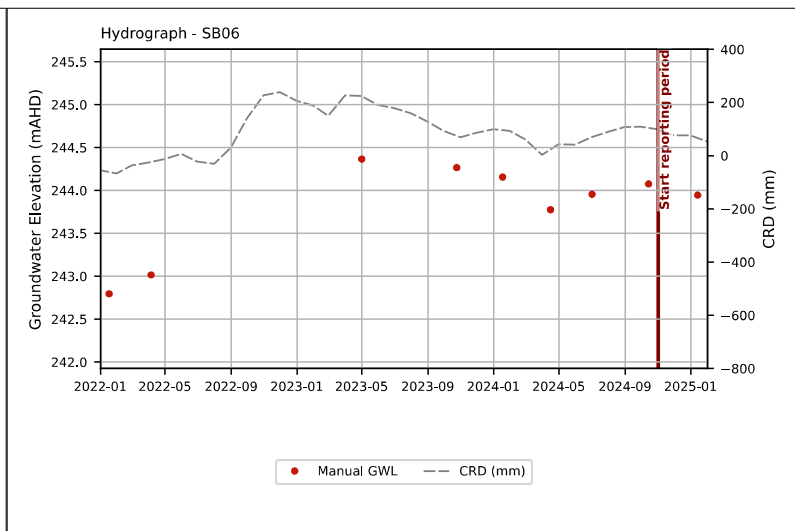
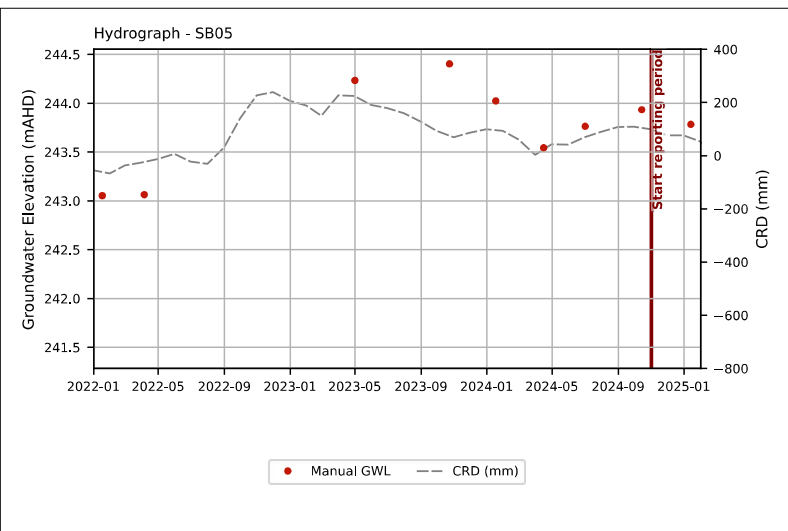
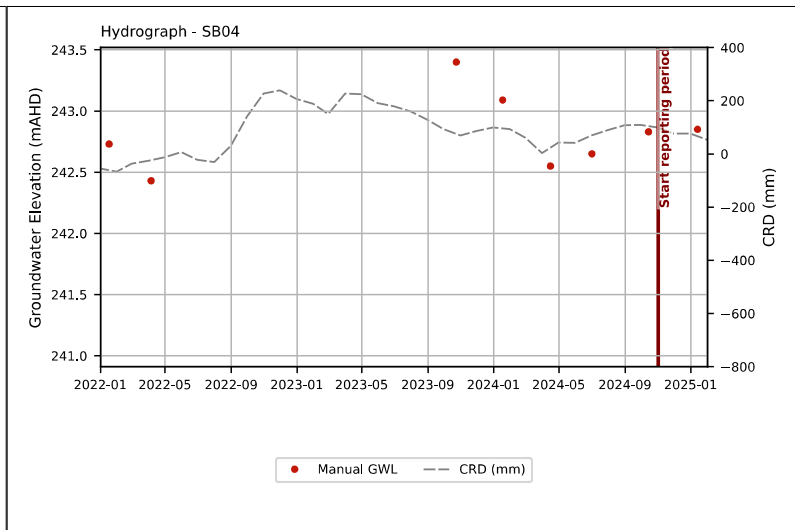
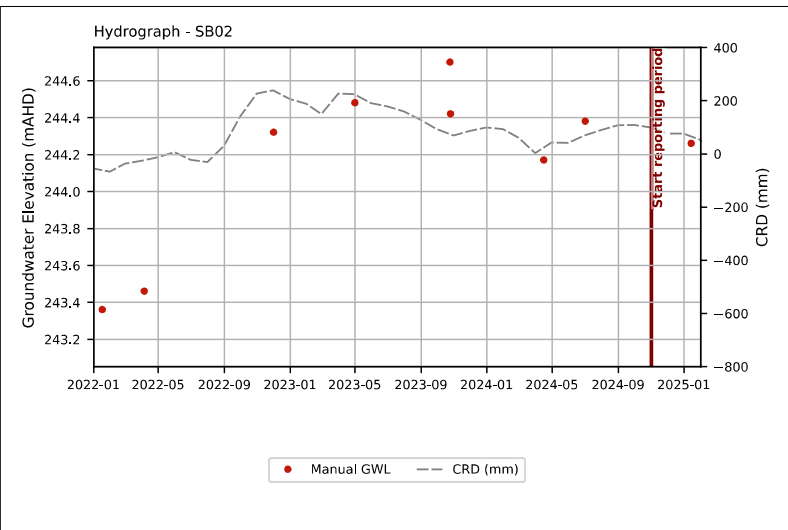
Appendix C

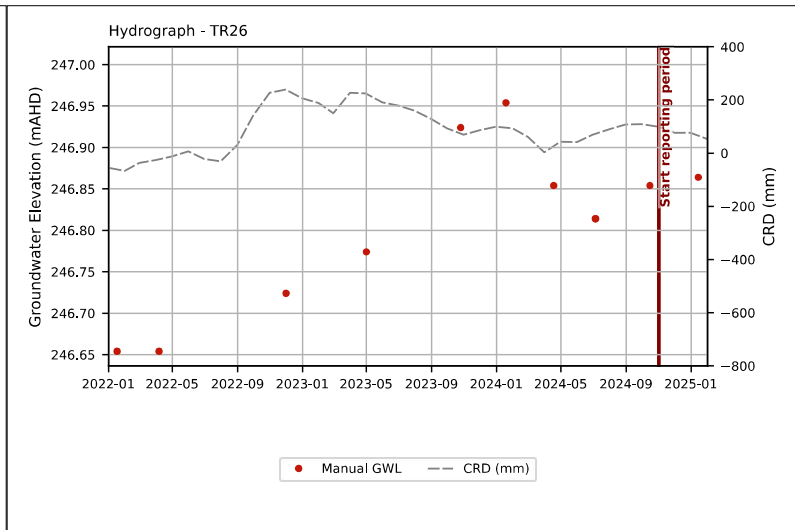
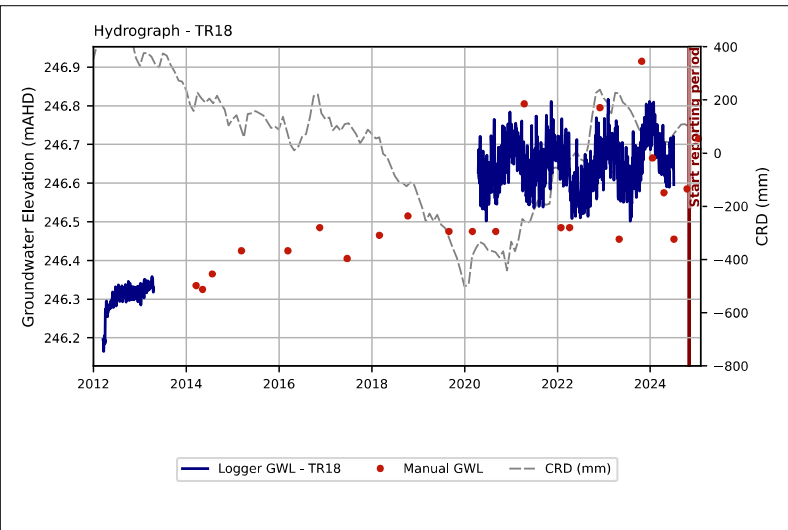
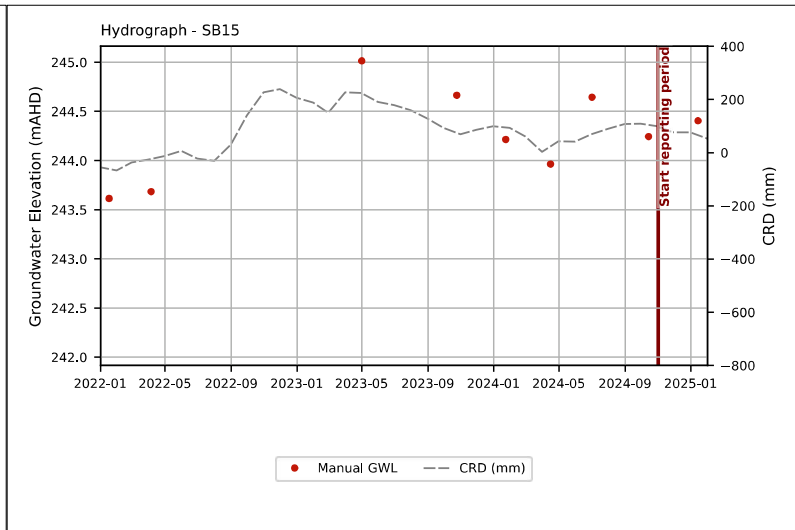
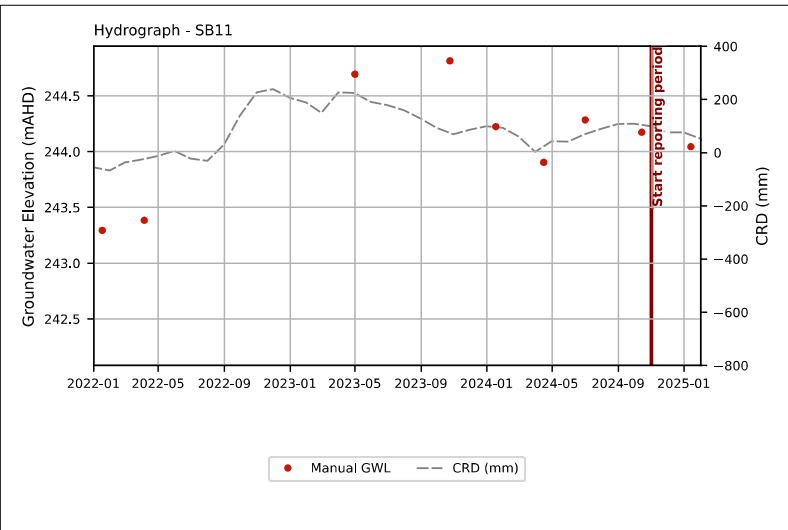
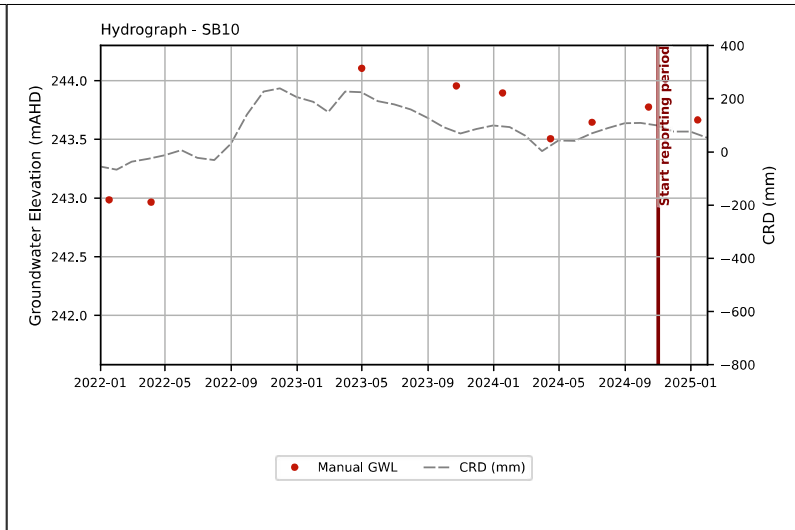
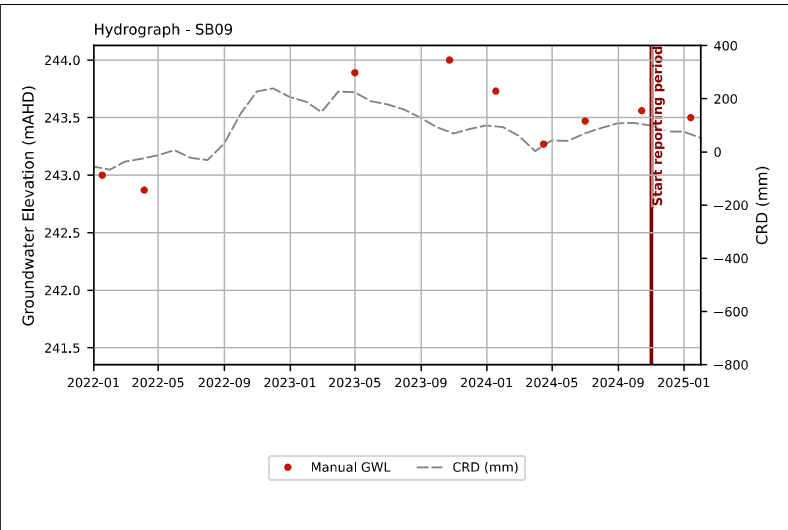


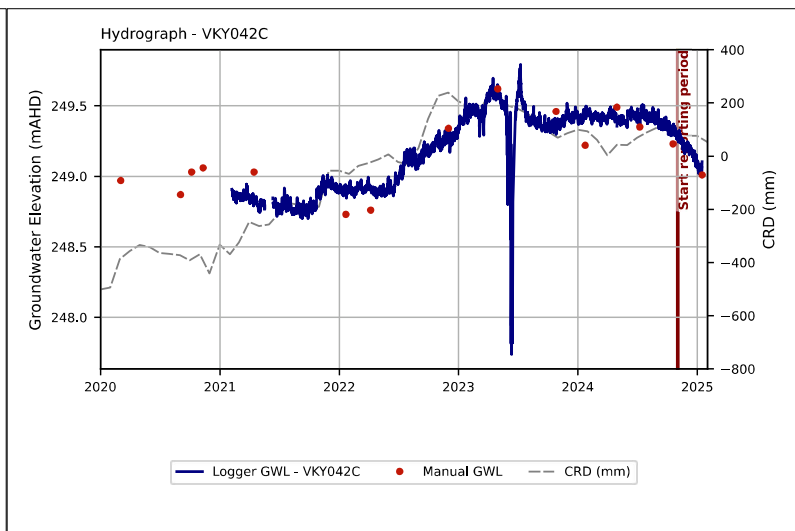
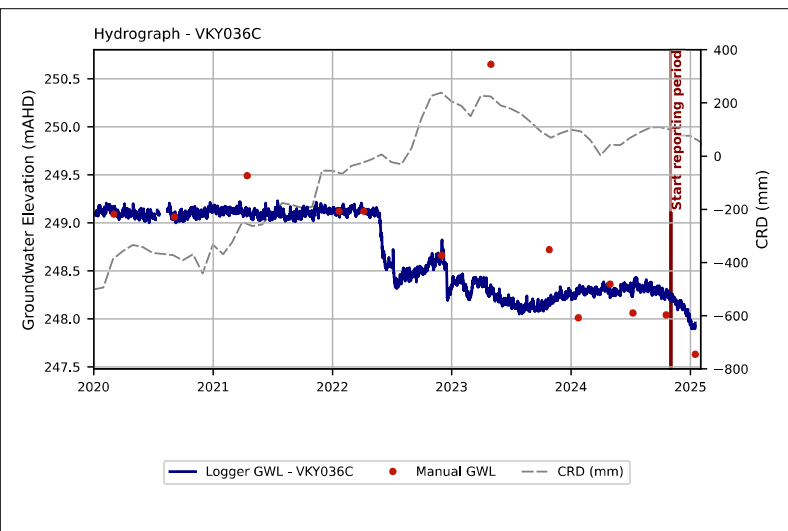
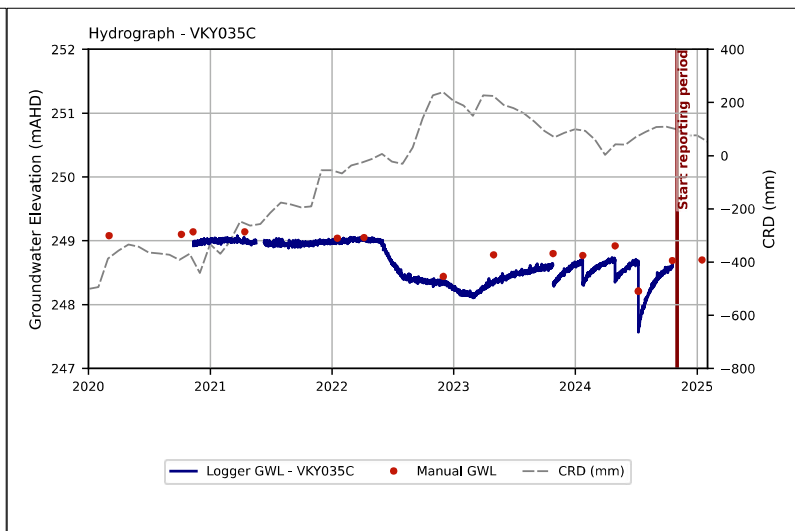
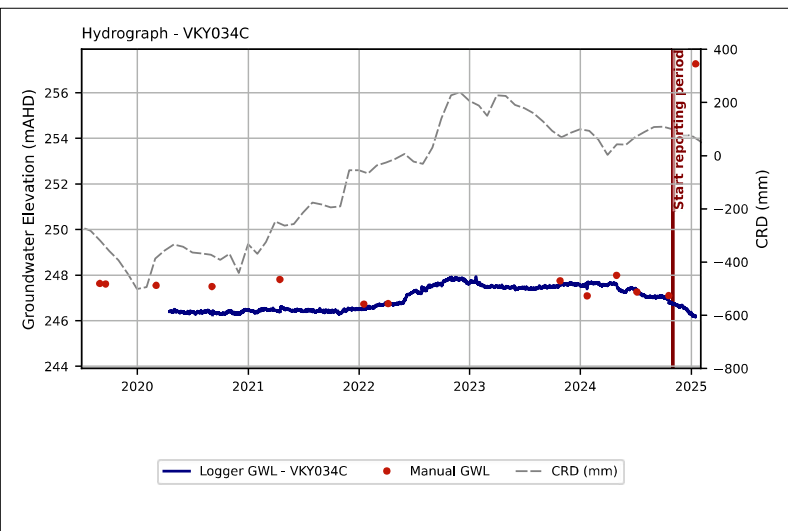
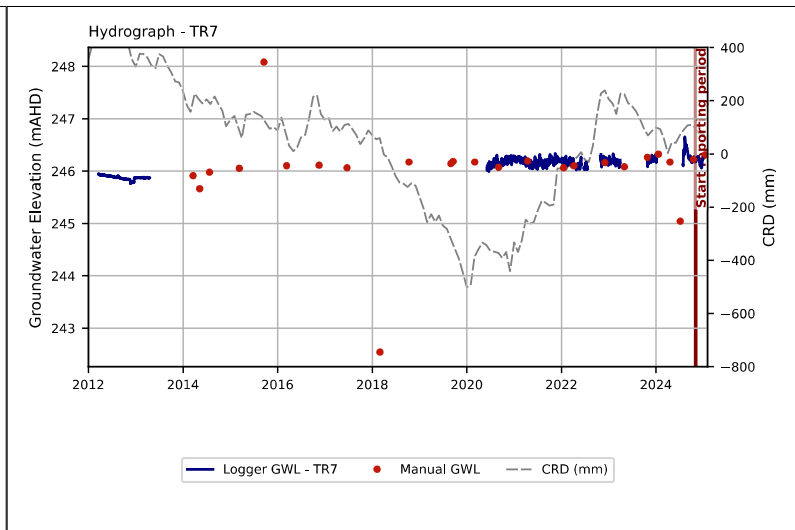
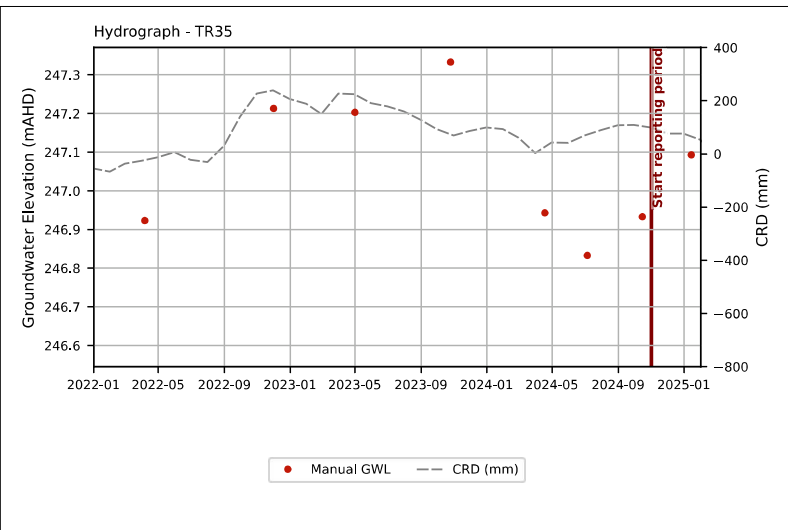


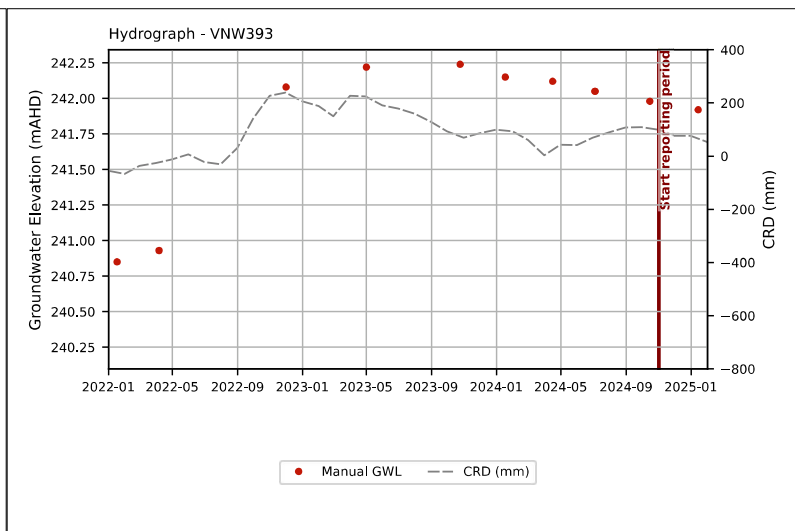
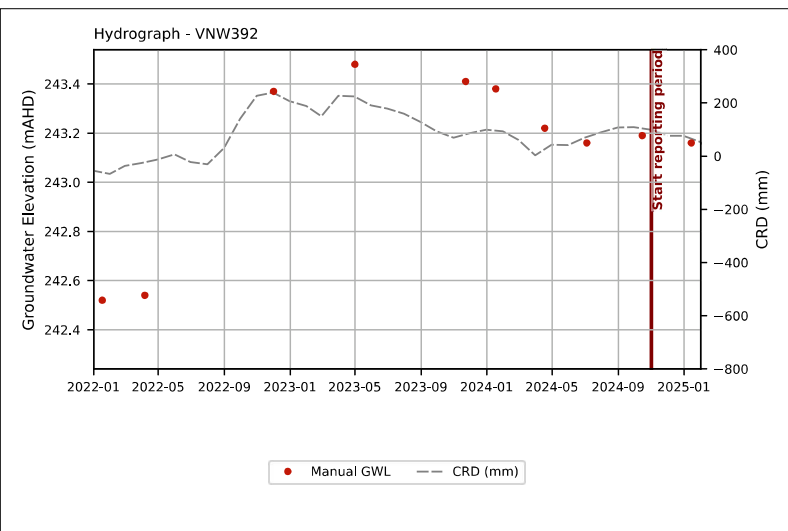
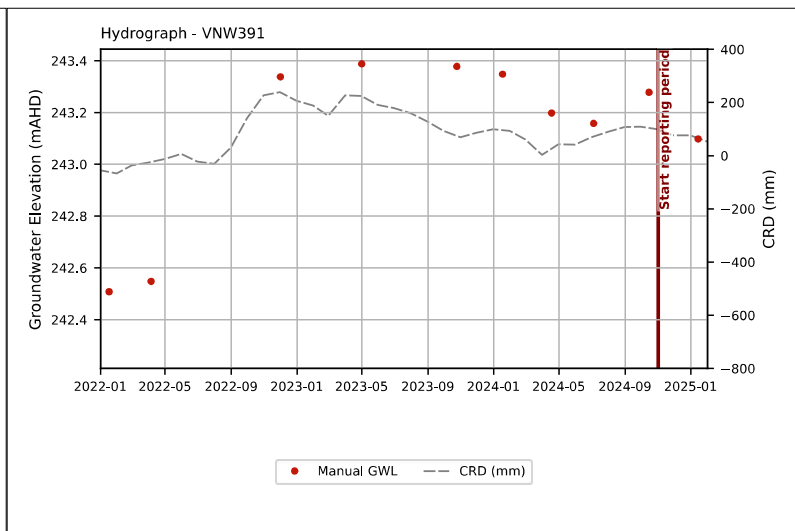
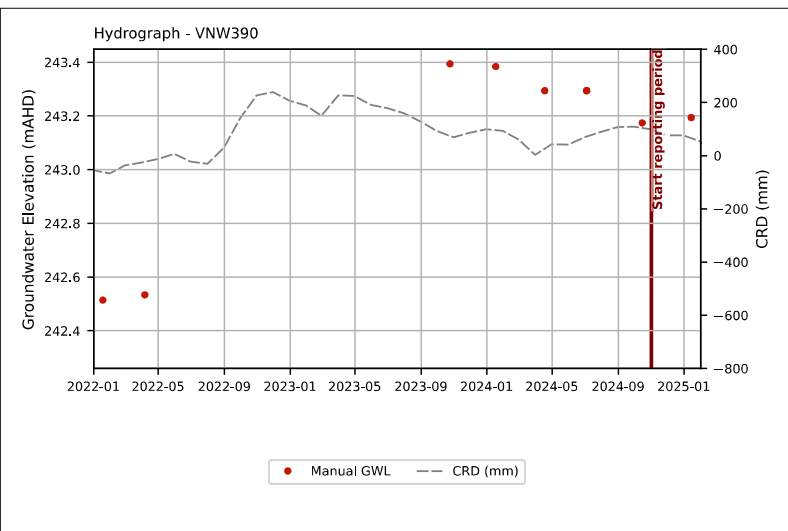
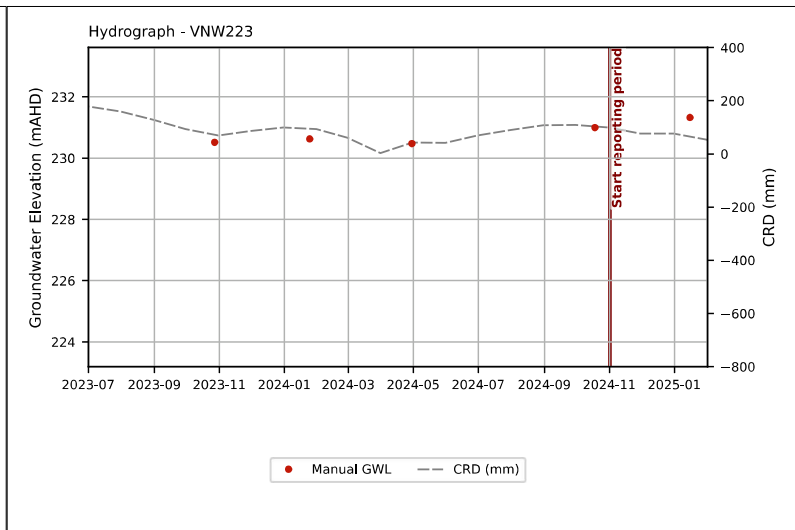
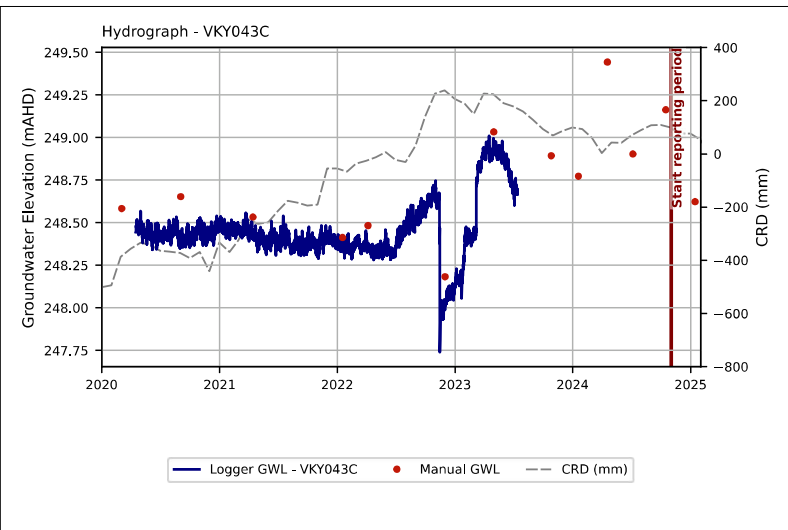


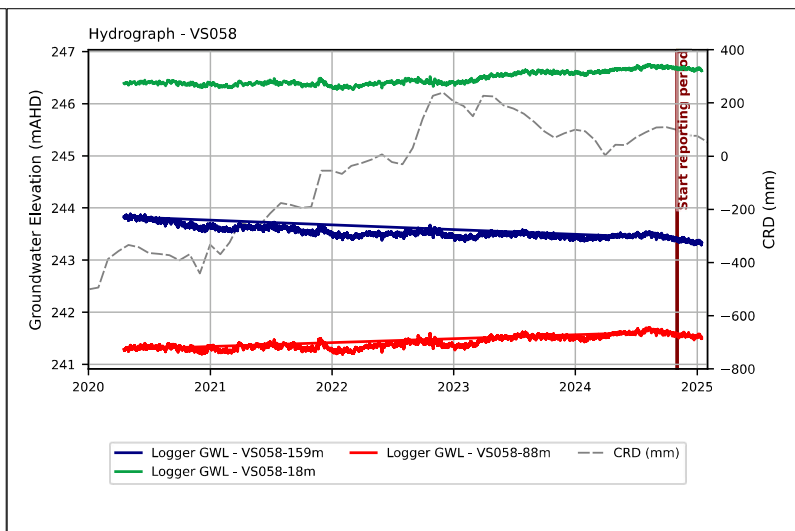
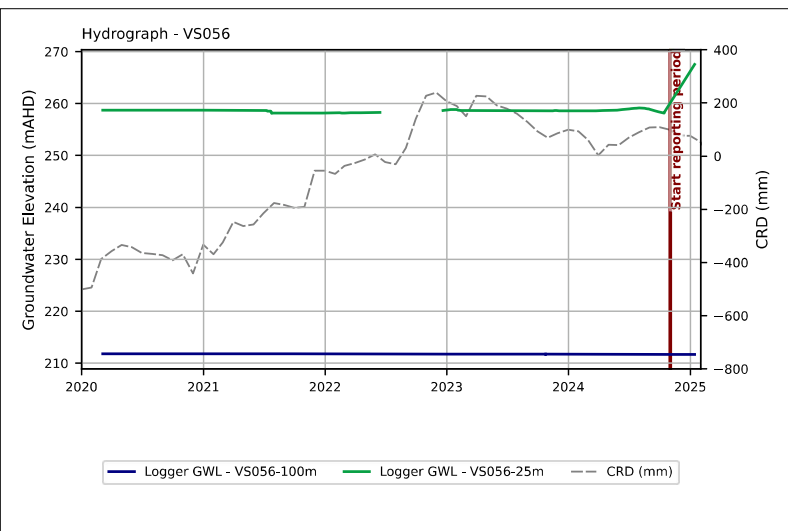
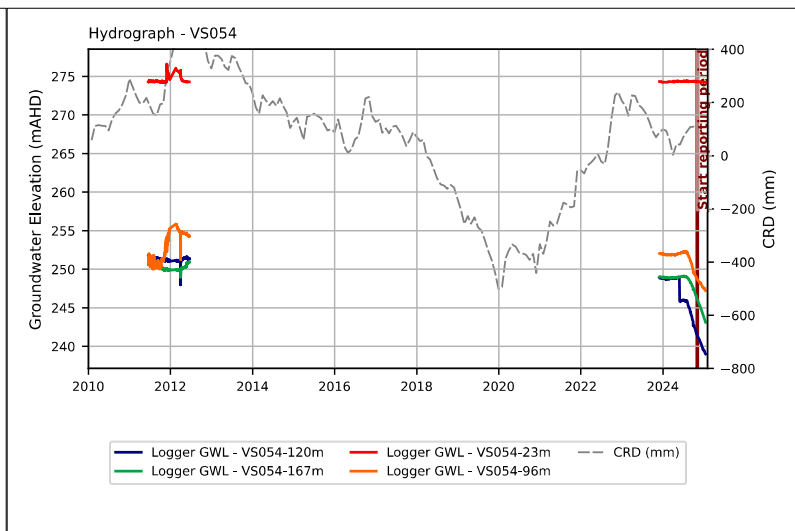
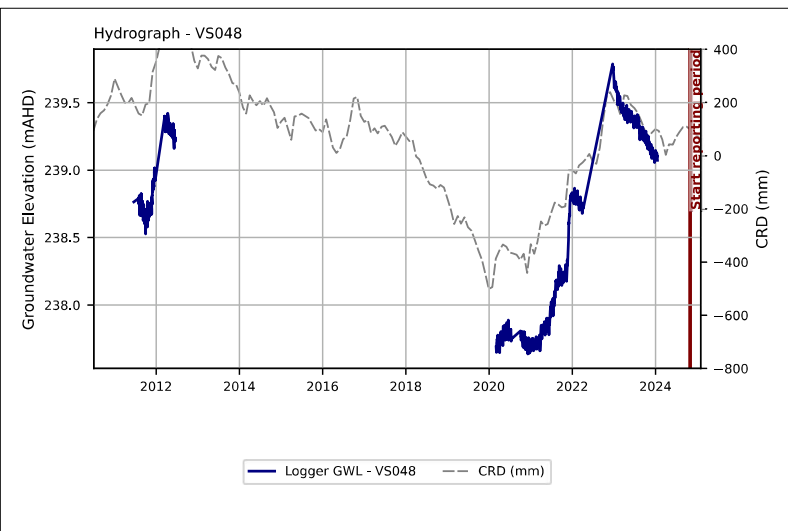
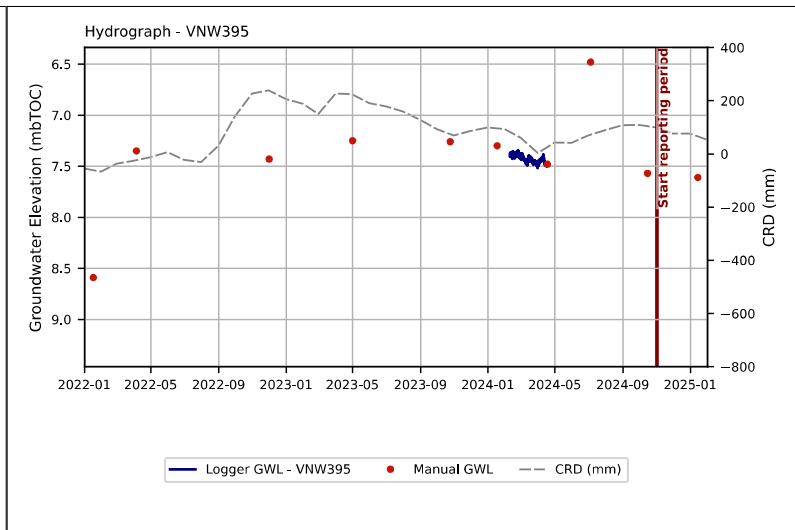
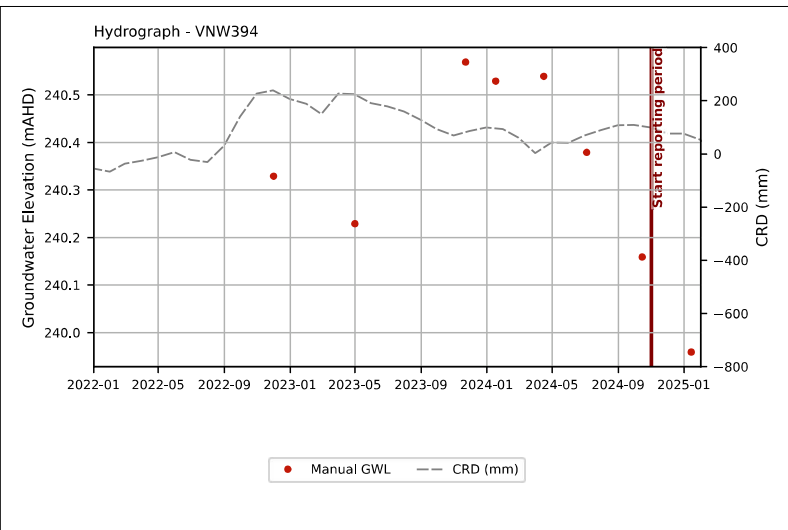


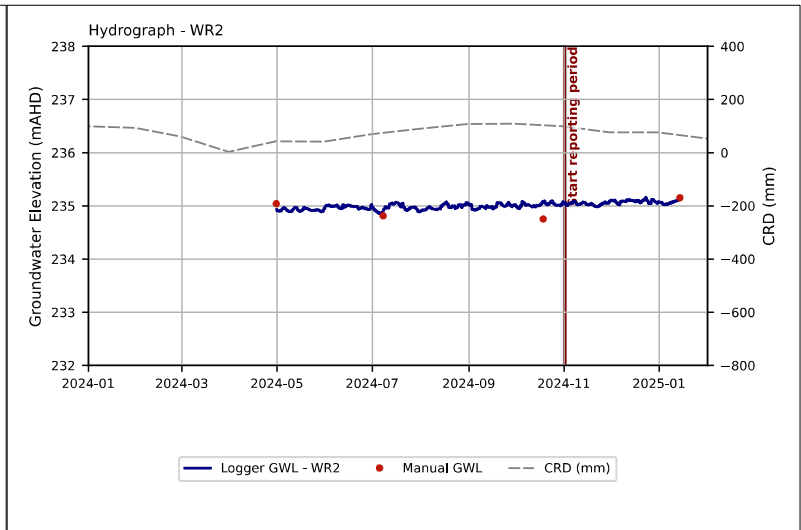
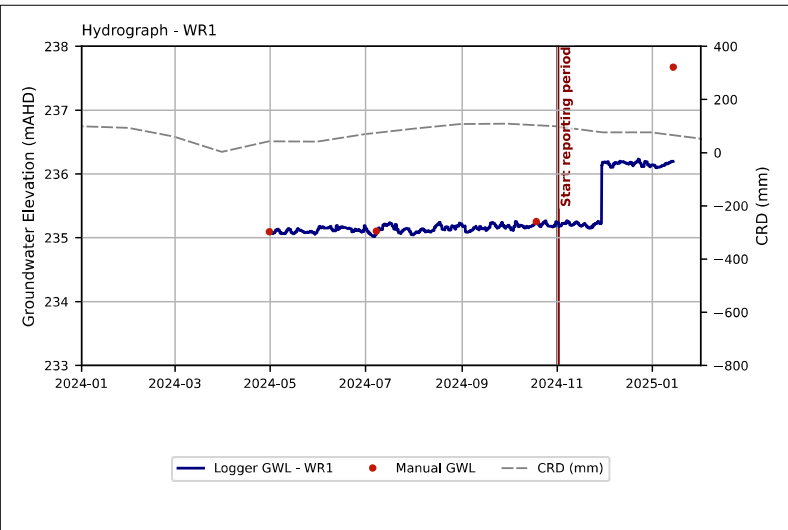
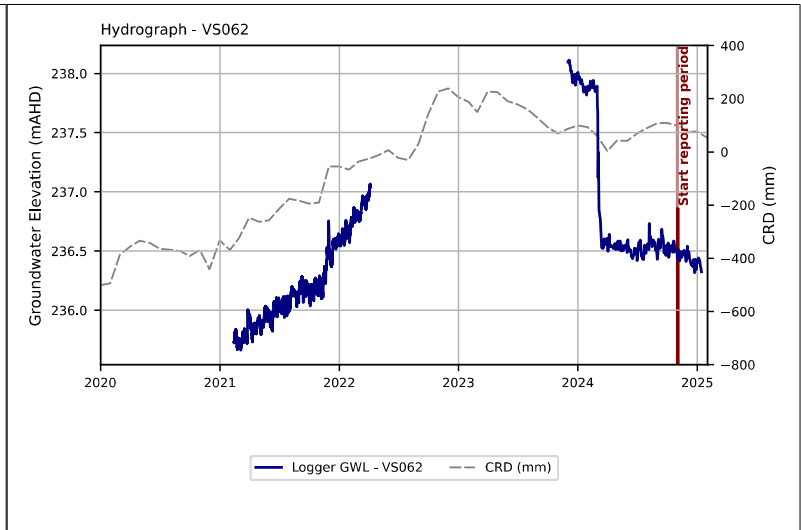
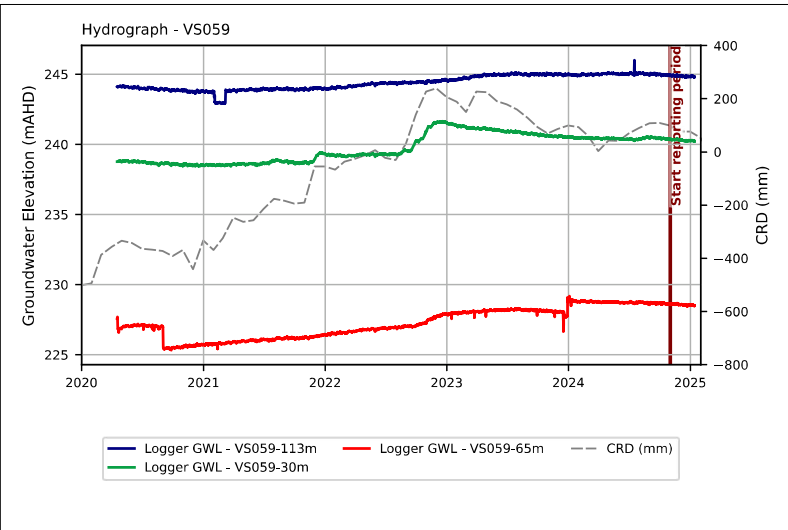












Whitehaven Vickery Extension Project Community

Consultative Committee

Date: Thursday 24 July 2025

Venue: Whitehaven Mine, and Online via Zoom

Invitees	
<p>Community Representatives</p> <p>Grant McIlveen (GM), Community Representative</p> <p>Keith Blanch (KB), Community Representative</p> <p>Barry Thompson (BT), Community Representative</p> <p>Narrabri Shire Council</p> <p>Cr Ethan Towns (ET), Councillor Narrabri Shire Council</p> <p>Gunnedah Shire Council</p> <p>Cr Ann Luke (AL), Councillor Gunnedah Shire Council (alternate representative)</p> <p>Wade Hudson (WH), Gunnedah Shire Council Manager Development Assessment</p>	<p>Whitehaven Coal</p> <p>Megan Martin (MM), Environmental Superintendent</p> <p>Matthew Sparkes (MS), Manager Operations Whitehaven Vickery</p> <p>Darren Swain (DS), General Manager Community Engagement Whitehaven</p> <p>Independent Chairperson</p> <p>Professor Roberta Ryan (RR)</p> <p>Minute taker</p> <p>Zoey Mackey-Craig (ZMC)</p>
Apologies	
<ul style="list-style-type: none"> • Cr Cameron Moore (CM) Councillor Gunnedah Shire Council (delegate) • Jabin de Keizer (JdK), Community Relations Manager Whitehaven • Cr Brett Dickinson (BD), Councillor Narrabri Shire Council (alternate representative) 	

Item	Description
1	Welcome, agenda, apologies, declarations – RR
	<p>RR opened the meeting, welcoming members and inviting any updates to declarations of interest. None were raised.</p> <p>Review of previous minutes</p> <p>RR acknowledged the outstanding discrepancy in the draft minutes from the previous meeting. For members awareness and for the minutes, RR shared that the first draft of the</p>

Whitehaven Vickery Extension Project Community

Consultative Committee

	<p>minutes from the previous meeting had recorded that the pipeline associated with the Vickery Extension Project MOD1 had been approved. Following circulation, GM had provided feedback on the draft minutes, querying the record of the discussion and associated action.</p> <p>MM had then clarified that this was not the case — the modification process remains ongoing, and the pipeline has not yet been approved. This was amended in the minutes to reflect the accurate information, however changing the record of what was said in the meeting.</p> <p>RR acknowledged that the statement may have been either misheard or misunderstood at the time by MM or ZMC (minute taker), and thanked KB for raising the matter.</p> <p>Members discussed and agreed that minutes should record what was said during the meeting, even if what was said is later found to be factually incorrect. In such cases, it was agreed that the accurate information would be captured in a Chair's note or clarification, appended to the relevant section of the minutes, rather than altering the original dialogue. This approach ensures both transparency and an accurate historical record of the discussion.</p> <p>RR confirmed that the draft minutes would be amended to reflect this clarification, and the corrected version would be circulated for finalisation.</p>
2	<p>Actions arising</p> <p><i>This section provides an opportunity to follow up on the actions agreed at the previous meeting/s, clarify outstanding issues, and offer any relevant updates or feedback. It ensures continuity between meetings and allows the group to track progress on previously discussed items.</i></p>
	<p>ARISING, MAY MEETING</p> <p>A): Draft Terms of Reference (ToR) for this group, for review by members. Responsible: RR, MM and ZMC Due: 10 July 2025</p> <p>Cr Ann Luke requested that the ToR be updated to reflect that the meetings are recorded for the purposes of the minutes. RR noted that these recordings are destroyed afterwards. Cr Ann Luke also requested that the ToR be updated to reflect “other locations as advised” in the case they are required to meet elsewhere, as is the case for this meeting.</p> <p>RR confirmed these changes would be made the ToR recirculated.</p> <p>B): KB to provide drafted notes for submission to ZMC and RR, which will be prepared and submitted by the Independent Chair to the Maules Creek mine CCC chair. Responsible: KB, ZMC, RR Due: ASAP</p> <p>RR provided an update on this action regarding the concerns that were raised by KB around land use and the proposed rehabilitation activities. RR advised that she had spoken with Mike Silver, Chair of the Maules' Creek CCC, on 12 June 2025 in relation to the issue,</p>

Whitehaven Vickery Extension Project Community

Consultative Committee

and Mike had committed to speaking with Darren Swain and Stephen Donoghue [Department of Planning]. RR confirmed she had since followed up with Mike but at the time of the meeting had not received a response.

RR invited KB to provide an update or any new information.

KB confirmed he had not received any further updates since the last meeting. He reiterated that he had submitted his concerns via email following the previous CCC meeting and understood that RR, as Chair, would be including these in a submission, with the deadline noted as 4 August 2025. KB reiterated his position as a leaseholder, stating that he is limited in his ability to influence decisions regarding land use on the property, and had therefore relied on the Chair to take the matter forward. He stated that, as of this meeting, he had not received any response or update.

DS advised he had not been contacted by Mike Silver on this matter.

RR reiterated her understanding that Mike had committed to engaging both DS and the department in relation to the matter and committed to continuing to follow up.

KB elaborated further on his concerns, expressing frustration about the designation of the land as "low farming country." He stressed that the land is currently in excellent condition and that it would be beneficial for departmental representatives to inspect it first-hand to better understand its agricultural value.

KB noted historical concerns from local farmers that productive farming land would be lost to mining and/or environmental offsets. He stated that earlier reassurances given to the community are now being challenged by recent developments.

He recounted the historical land conditions and provided examples of how mining-affected properties had previously been of low productivity, but the current areas under discussion for the wean offsets are prime agricultural lands that have sustained local communities for generations. While acknowledging the importance of environmental restoration and tree planting, he questioned the appropriateness of doing so on highly productive farmland. He urged the committee and the relevant authorities to consider redirecting offset activities to more appropriate locations.

KB also emphasised that, under lease agreements with Whitehaven, significant investment is being made in improving the productivity of the leased farms (e.g. fencing, water infrastructure, silos) and questioned the logic of subsequently converting these areas into offset land.

GM agreed that the long-term implications of the current decisions could be significant if in 20–30 years, the land remains locked up after mining ceases. GM highlighted concerns about land management, weed and pest control, and broader community impacts if the offset land is not actively managed.

RR acknowledged the comments and thanked members for their contributions. She noted that the concerns raised reflect wider community issues and committed to ensuring they are followed up appropriately.

C): JdK to draft advertisement for CCC membership and share with committee for review.

Responsible: JdK, RR, MM

Due: ASAP

Whitehaven Vickery Extension Project Community

Consultative Committee

Update: This action is now closed 27/07/2025

RR provided an update on progress regarding prospective new committee members. Nomination forms have been received from George Avard and Leon Mills. RR noted that while she had attempted to speak with both individuals, contact had not yet been successfully established. She and Leon Mills had exchanged calls without connecting and planned to try again later that day. Efforts to reach George Avard had also been challenging, though a nomination form from him was received in the mail the previous day, indicating ongoing interest.

RR expressed appreciation to DS for assisting with outreach and encouraging the submission of nomination forms. She confirmed she would speak directly with both nominees prior to the next meeting, and pending those conversations, the committee would consider inviting them to formally join at a future meeting, subject to their interest and the group's agreement.

DS confirmed George Avard remained interested and offered to assist further if contact could not be made.

RR concluded by noting that, assuming positive discussions with both candidates, further advertising for membership may not be necessary at this time.

This action is now closed.

ACTIONS ARISING. FEBRUARY MEETING

It was noted that there are outstanding actions from the February meeting. These actions have been recorded on the agenda and in the minutes to ensure answers are provided by the responsible persons to members of this committee.

RR asked ZMC to speak to the actions below, which are outstanding from the February meeting of the CCC. For members, ZMC detailed the below actions, and confirmed follow up with Cr Towns had occurred between meetings.

Cr Towns indicated that the previous contact, Donna Ausling, who these questions had been directed to, is no longer in the role. Cr Towns advised he will escalate with the General Manager of Narrabri Council to provide responses to these questions to the members of the committee with urgency.

A): Response to several questions raised by Narrabri Council. They are listed in detail below.

Responsible: BD, ET

Update from July Meeting: Cr Townes advises he will escalate with the General Manager of Narrabri Council to provide responses to these questions.

Due: ASAP

(a) How much money has the Council received in the past 20 years through VPAs and one-off payments associated with the mining industry.

BD says that all VPA agreements are published on the Council's website, so can be accessed there.

BD is unaware at this stage as to where this us up to, but he has forwarded this on to council and will provide a response offline as soon as possible.

Whitehaven Vickery Extension Project Community

Consultative Committee

	<p>(b) How much money has been invested back into Boggabri within this past 20-year period.</p> <p>BD has forwarded this to the council and will provide a response offline as soon as possible.</p> <p>(c) How much interest has been earned on the \$3.2 million contributed to the Council by the Vickery Coal mine.</p> <p>BD has forwarded this on to council and will provide a response offline as soon as possible.</p>
3	Environmental Report
	<p>Megan Martin (MM) provided members with a detailed report (attached).</p> <p>Modification 1 Approval</p> <ul style="list-style-type: none">• MOD1 is currently progressing through the assessment phase.• The modification includes provisions to allow improved or additional access.• The original SSD-5000 approval omitted gravel production for the extension project. MOD1 proposes to align this with existing conditions:<ul style="list-style-type: none">○ Up to 90,000 tonnes of gravel production.○ Operations restricted to daytime hours only.○ Truck movements must continue to follow the approved route.• Minor amendments to the designated secondary construction area have been proposed.• Coal Haulage Operating Hours:<ul style="list-style-type: none">○ Clarification and simplification of operational hours are proposed:○ Monday to Friday: 4:00 AM to 11:15 PM○ Saturday: 5:00 AM to 7:00 PM○ These hours are considered simpler to manage from a planning perspective.• Water Supply Pipelines:• Three pipelines are included in the modification:<ul style="list-style-type: none">○ An already approved pipeline to Tarrawonga (as part of MOD7).○ New pipelines to neighboring properties on Mirrabinda, using an existing track.○ A proposed pipeline from the dam at Nalya Park, designed to match existing corridor structures.○ A third pipeline to Rocglen, intended for surge capacity and additional water storage. This pipeline would allow both inflow and outflow of water.• Note: None of these new pipelines are currently budgeted for construction under any active project budget.• Waste Tyre Burial:<ul style="list-style-type: none">○ Waste tyre disposal is proposed, aligning with approvals already in place at Maules Creek and Tarrawonga.○ The EPA have been consulted.○ Conditions will mirror those at the other sites.○ The company is experienced and compliant with relevant EPA requirements.• MM advised that the assessment process is complete, and they are anticipating

Whitehaven Vickery Extension Project Community

Consultative Committee

approval by the end of the month [of July] (subject to change).

- All documentation, including subsidiary assessments, is available on the NSW Major Projects website.
- MM committed to re sending the link to Committee members for ease of access.

New Item 1

Provide committee members with the link to the Departments Major Projects website.

Responsible: MM

Due: ASAP

RR opened up to questions from Committee members.

KB enquired when the pipeline that has been approved from Tarrawonger to Vickery will commence.

MM advised it is approved, but it is not currently in budget. However, as it is approved Vickery could commence this “whenever they wanted”.

Members in the room discussed the new branding and logos of Whitehaven.

MM provided members with the environmental update:

Key points from the presentation shared are provided below. Please refer to the presentation attached to the minutes for full detail.

Noise Monitoring

- Results at NAT 1 and 2 were within range for the period.
- Real time monitoring is available, enabling the mine to monitor the impact on neighbors.

Air Quality Monitoring

Previously the report had only detailed compliance monitoring.

The mine has other weather stations and quality air monitoring equipment positioned around the site.

PM 3

These run every 6 days, providing data which does not favor one day of the week. It is a filter-based system, which sucks the air through the cartridge. This cartridge is measured before and after the testing on microbalance scales, to measure the dust in the air.

Dust Deposit Guage’s (DDGs)

The mine also has Dust Deposit Guage’s, which are required as part of the original approval’s conditions for the mine. They are essentially a glass bottle in a funnel, which are collected, and then rinsed. The dust that is rinsed out is provided to the lab for testing.

Tapered Element Oscillating Membrane

The mine also has a Tapered Element Oscillating Membrane (TEOM), however MM noted they can be easily impacted by storms and are less sturdy.

Watering Monitoring

To date the pressure and water samples, which are tested in a credited lab, indicate stable

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groundwater results.

The first two years of data collection are almost complete, which informs the mine of trigger levels for each bore. As part of EPBC approval, results are provided quarterly on the website.

KB queried the use of proposed bore GW032114 (red), asking if it was an irrigation bore or a monitoring bore.

MM advised it was originally an irrigation bore, but is now used for groundwater monitoring. The bore labelled in purple (GW971400) is still classified as a proposed monitoring point. However, its inclusion in the monitoring program has been reconsidered.

The latest Water Management Plan (not yet approved) reflects this change, proposing to monitor GW032114 instead of GW971400 due to accessibility and practicality. GW032114 is not used frequently for irrigation; when monitoring is required, arrangements are made with the landholder to activate it. GW971400 is physically difficult to access, and therefore not currently used for monitoring.

Environmental monitoring is a significant undertaking, requiring external consultants for approximately three weeks each month to complete the required fieldwork. This includes both groundwater and surface water monitoring programs.

Water

MM continued with the update on monthly surface water monitoring, which is conducted at eight locations, both upstream and downstream of the mine operation. Water quality results from the Namoi River show consistent and stable conditions upstream and downstream, regardless of rainfall or releases.

No water has been discharged from the site since operations commenced, despite multiple rainfall events.

Rainfall

- Low for June
- March and May were considerable
- High 600s for last financial year, which is considered good

Blast Monitoring

- B01 – Kurrumbede
- B02 – heritage site (Grinding Grooves)
- B03 – private residence (Compliance monitoring)

Project approval requires mine site to reduce cumulative impacts. Text messages are sent to neighbors the day before.

- 73 blasts since Jan 2024
- 14 in last quarter
- All these figures are within project criteria and EPL approval

Management plans

All currently approved are on website

- Air Quality Management plan was approved in July
- Noise Management Plan was approved in May

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Some were recently updated in anticipation of MOD1 approval:

- Waste Management Plan
- Aboriginal Cultural Heritage Management Plan

In progress:

- Water Management Plan is with the Department pending approval, expected soon.
- Biodiversity Management Plan
- Blast Management Plan
- Traffic Management Plan

RR opened to questions from members:

KB asked if there were any detailed plans available on the trainline, to which MM advised there were some available on the website.

New Item 2:

Provide members with the link to the approved design plans which are available online, in particular the trainline.

Responsible: MM

Due: ASAP

GM sought clarification on whether the final rail design would include a viaduct or culvert, noting that the original EIS proposed a viaduct.

In response, MM advised that the conceptual design remains similar to the original intent, flood modelling confirms the current design is within the EIS parameters, and this approach is expected to be less noisy than the original proposal.

KB expressed concern that the EIS approval was based on a viaduct.

WH raised concerns about the impact of earthworks on flooding near residential areas within designated flood control zones. He emphasised the importance of understanding whether design changes affect flood modelling, as Council's submission was aimed at ensuring no increase in flood risk. He requested that Council be informed of any changes and their implications.

MM confirmed she would provide a link to the updated plans for reference.

RR raised a procedural concern that, once detailed design progresses, feedback loops with Council and submitters are often not closed. She suggested that submitters should be re-engaged during detailed design stages to review and comment on final plans.

WH noted that the design may have come to Gunnedah Shire Council, but he was not personally aware of it.

New Item 3:

Confirm and report back on the consultation process followed for the rail spur detailed design and how feedback from Council and submitters is incorporated. Provide link for updated plans to CCC members.

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	<p>Responsible: MM Due: 30 September 2025</p> <p>Cr AL raised that some of the use of acronyms in the reporting can make it challenging to engage with the data. Cr AL requested laminated copy of acronyms/glossary provided to the CCC, and included in reports moving forward.</p> <p>New Item 4: Create glossary of terms and include in all reporting to the Committee. Provide a copy of glossary to CCC members for reference. Responsible: MM Due: 23 October 2025</p>
4	Project Update/Approvals Update
	<p>MS provided members with an update on operations for Q4 FY</p> <p>Equipment on site:</p> <ul style="list-style-type: none">• 4 excavators• 12–13 trucks• Standard ancillary equipment. <p>Overburden moved in Q4 FY24: 1.5 million BCM Total overburden moved in FY24: 17.2 million BCM This was 16% above budget, enabled by additional capacity installed during the year.</p> <p>Coal Production:</p> <ul style="list-style-type: none">• Run of Mine (ROM) coal mined in Q4 FY24: 400,000 tonnes• Total ROM coal mined in FY24: 1.5 million tonnes• Against a budget of 1.3 million tonnes <p>Workforce: Total workforce at end of FY24: 177 personnel Good outcomes, no reportable injuries, for the entire financial year including:</p> <ul style="list-style-type: none">• No lost time injuries (LTIs)• No restricted work injuries <p>Safety and Risk Management</p> <p>Continued focus on identifying and addressing potential hazards. Use of Potential Loss (PL) ratings for hazards:</p> <ul style="list-style-type: none">• PL4 hazards: High-risk issues (e.g., uncontrolled vehicle intersections) that could result in serious injury or fatality.• PL3 hazards: Medium-risk issues with lower consequence. <p>Emphasis on resolving issues before they escalate.</p>
5	Community Updates, Complaints
	<p>MM confirmed a total of 8 complaints were received for FY 25</p> <p>DS spoke to the Community Investment, sharing that \$251,632.81 had been delivered to</p>

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	<p>NSW. A change in the funding model for this financial year will see all discretionary spend moved to bi annual funding in April and October, with the exception of regular items like show committees and special projects. DS advised that people will still be able to go onto the website and register anytime, and applications will flow through to the committee for assessment at the meeting which aligns (either April or October).</p> <p>Additionally, Whitehaven NSW community open day will be held on 9 August 2025. There will be around 10 busses running to charter approx. 500 people. Tickets were sold out overnight.</p>
6	General Business
	<p>GM raised the policing of Braymont Road, reporting that a landowner identified both high traffic and poor road condition. GM understands this is not just caused by Vickery, but wanted to enquire as to the policing methods.</p> <p>MM confirmed they are waiting on traffic control plans to put up signs. In the meantime they are rolling out education to their staff, subcontractors and visitors.</p> <p>MM stated that last year there was a traffic audit with tubes over the road, to track traffic going both ways on Braymont Road. When the tubes were there, not many people were picked up.</p> <p>MM has spoken to landowners and agrees that traffic has increased, and security guards are trained to check that people don't turn that way. She understands that people use that road to get to other mines, and that the Whitehaven team do their best to ensure people understand they cannot use this as transit between jobs. MM committed to another traffic audit.</p> <p>KB agreed with GM and stated that under Vickery Mine approval, mine-related traffic is not permitted to use Braymont Road and must take the longer approved route. However, this condition is frequently ignored by contractors and security personnel (less so by mine workers). KB suggested installing a camera near the signage to monitor compliance.</p> <p>MM added that Google Maps directs traffic via Braymont Road when entering "Vickery" from Boggabri. Users are urged to double-check routes to avoid non-compliance.</p> <p>Traffic management measures are being implemented, including:</p> <ul style="list-style-type: none">• A sign at Boston Street bridge.• Another sign near the Braymont Road intersection and at the security hut.• Parts of Hoad Lane is also not to be used by mine traffic; signs to be installed stating "Local Traffic Only – No Mine Access." <p>KB also raised concerns about the poor condition of the road from Bungalow to Boggabri, particularly the four-way intersection at the stop sign, and requested grading.</p> <p>He thanked Narrabri Shire Council for their work on other roads.</p> <p>GM requested Cr Townes take the condition of Braymont Road (post-Boston Street bridge)</p>

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	<p>as an action due to safety concerns.</p> <p>Cr Luke encouraged landowners and residents to formally lodge complaints, noting that this strengthens the ability of Councillors to escalate the issue.</p> <p>New Item 5 Determine unique identifier for “Braymont” road, specifically the section that has experienced recent overuse leading to damage. Provide unique identifier to Cr Towns, to enable Council maintenance on damaged road. Responsible: MM Due: ASAP</p> <p>New Item 6 Arrange traffic audit before the end of 2025 Responsible: MM Due: update on timing of audit due to CCC 23 October 2025.</p> <p>Narrabri Aged Care Development GM noted that discussions around the aged care facility have been ongoing for 3–4 years. He noted that a \$3.2 million contribution was made two years ago, and approximately 25 white survey pegs are now in place at the proposed site near the bowling club.</p> <p>ET advised that a virtual walkthrough of the facility took place last month. A digital model is now available to view the proposed design, though it is unclear whether this has been included in a formal media release. He further advised members that the total project cost is expected to be approximately \$7 million. Additional grant funding of \$5 million has been applied for. ET provided further information to members:</p> <ul style="list-style-type: none">• The development will include a large community space and landscaped garden areas.• The design has been finalised and reviewed in detail with the infrastructure team.• All required approvals have been granted.• The project may proceed using council funding initially, with grant funding to be applied retrospectively, allowing construction to begin now while current pricing remains stable. <p>New Item 7 Update on Narrabri Aged Care Development to be provided to CCC members. Responsible: ET Due: 30 September 2025</p>
7	Next meeting
	The next meeting will be held Thursday 23rd October, 12-2pm Gunnedah Town Office and online via Zoom

Vickery Coal Mine Community Consultative Committee Meeting #23

Quarterly Environmental Monitoring Report
Apr, 2025 – June, 2025

Vickery Project



This report has been prepared for the Community Consultative Committee (CCC) meeting to show environmental monitoring performance at Vickery Coal Mine (VCM) for the reporting period from April 2025 to June 2025.

Noise Monitoring

Attended noise was conducted during this period.

Attended noise monitoring was conducted at “Lanreef” (N-AT2) and “Broadwater” (N-AT1) properties once a month during this reporting period. Noise criteria for the mine is 40dB(A) Leq (15 min) during day time and 35dB(A) Leq (15 min) during evening/night time and 52 LA_{max} for instantaneous night readings. Please refer to EPL Monitoring locations map in Appendix B for the location of these monitoring points. Results below show that noise emissions from the mine did not exceed operational criteria at “Lanreef” or “Broadwater” monitoring locations during the monitoring period.

Table 1 April 2025 Attended Noise Monitoring

Table 4 VCM Operational Noise Monitoring Results Leq(15min) – 28 th April 2025 (Day)								
Location	Time	dB(A), Leq	VCM Contribution dB(A),Leq	Criterion dB(A),Leq	Wind speed (m/s),dir	Stability Class	Identified Noise Sources dB(A),Leq	Exceedance (Yes/No)
N-AT1 / 7	3:32 pm	37	IA	40	1.9 / 125	D	Wind (37), birds (25), VCM (IA)	No
N-AT2 / 8	1:21 pm	50	IA	40	2.4 / 171	D	Birds (50), traffic (35), VCM (IA)	No
Table 5 VCM Operational Noise Monitoring Results Leq(15min) – 28 th April 2025 (Evening)								
Location	Time	dB(A), Leq	VCM Contribution dB(A),Leq	Criterion dB(A),Leq	Wind speed (m/s),dir	Stability Class	Identified Noise Sources dB(A),Leq	Exceedance (Yes/No)
N-AT1 / 7	9:23 pm	35	27	35	1.7 / 97	D	Wind (32), traffic (28), VCM (27)	No
N-AT2 / 8	8:16 pm	44	IA	37	2.5 / 100	D	Traffic (44), insects (30), VCM (IA)	No
Table 6 VCM Operational Noise Monitoring Results Leq(15min) – 28 th April 2025 (Night)								
Location	Time	dB(A), Leq	VCM Contribution dB(A),Leq	Criterion dB(A),Leq	Wind speed (m/s),dir	Stability Class	Identified Noise Sources dB(A),Leq	Exceedance (Yes/No)
N-AT1 / 7	10:01 pm	37	24	35	2.6 / 70	E	Plane (36), Traffic (26), VCM (24)	No
N-AT2 / 8	11:41 pm	38	<20	37	2.5 / 9	E	Traffic (37), insects (28) VCM (<20)	No
Table 7 VCM Operational Noise Monitoring Results LA _{max} – 28 th April 2025								
Location	Time	dB(A), LA _{max}	VCM Contribution dB(A), LA _{max}	Criterion dB(A), LA _{max}	Wind speed (m/s),dir	Stability Class	LA _{max} Noise Source	Exceedance (Yes/No)
N-AT1 / 7	10:01 pm	48	32	52	2.6 / 70	E	Birds	No
N-AT2 / 8	11:41 pm	58	20	52	2.5 / 9	E	Birds	No

Table 2 May 2025 Attended Noise Monitoring

Table 4 VCM Operational Noise Monitoring Results Leq(15min) – 28 th May 2025 (Day)								
Location	Time	dB(A), Leq	VCM Contribution dB(A),Leq	Criterion dB(A),Leq	Wind speed (m/s),dir	Stability Class	Identified Noise Sources dB(A),Leq	Exceedance (Yes/No)
N-AT1 / 7	3:58 pm	32	IA	40	2.5 / 255	D	Wind (30), birds (27), VCM (IA)	No
N-AT2 / 8	1:45 pm	48	IA	40	2.5 / 271	D	Birds (45), traffic (45), VCM (IA)	No

Table 5 VCM Operational Noise Monitoring Results Leq(15min) – 28 th May 2025 (Evening)								
Location	Time	dB(A), Leq	VCM Contribution dB(A),Leq	Criterion dB(A),Leq	Wind speed (m/s),dir	Stability Class	Identified Noise Sources dB(A),Leq	Exceedance (Yes/No)
N-AT1 / 7	9:27 pm	32	23	35	1.0 / 273	F	Wind (30), traffic (26), VCM (23)	No
N-AT2 / 8	8:19 pm	42	IA	37	2.2 / 232	E	Traffic (41), wind (33), VCM (IA)	No

Table 6 VCM Operational Noise Monitoring Results Leq(15min) – 28 th May 2025 (Night)								
Location	Time	dB(A), Leq	VCM Contribution dB(A),Leq	Criterion dB(A),Leq	Wind speed (m/s),dir	Stability Class	Identified Noise Sources dB(A),Leq	Exceedance (Yes/No)
N-AT1 / 7	10:02 pm	35	22	35	2.9 / 300	E	Wind (34), Traffic (26), VCM (22)	No
N-AT2 / 8	11:44 pm	40	<20	37	2.7 / 290	E	Traffic (38), wind (34), VCM (<20)	No

Table 7 VCM Operational Noise Monitoring Results LA _{max} – 28 th May 2025								
Location	Time	dB(A), LA _{max}	VCM Contribution dB(A), LA _{max}	Criterion dB(A), LA _{max}	Wind speed (m/s),dir	Stability Class	LA _{max} Noise Source	Exceedance (Yes/No)
N-AT1 / 7	10:02 pm	42	25	52	2.9 / 300	E	Birds	No
N-AT2 / 8	11:44 pm	51	20	52	2.7 / 290	E	Highway	No

Table 3 June 2025 Attended Noise Monitoring

Table 4 VCM Operational Noise Monitoring Results Leq(15min) – 6 th June 2025 (Day)								
Location	Time	dB(A), Leq	VCM Contribution dB(A),Leq	Criterion dB(A),Leq	Wind speed (m/s),dir	Stability Class	Identified Noise Sources dB(A),Leq	Exceedance (Yes/No)
N-AT1 / 7	4:22 pm	31	IA	40	2.1 / 320	D	Wind (28), birds (27), VCM (IA)	No
N-AT2 / 8	2:10 pm	34	IA	40	1.9 / 348	D	Traffic (34), VCM (IA)	No

Table 5 VCM Operational Noise Monitoring Results Leq(15min) – 6 th June 2025 (Evening)								
Location	Time	dB(A), Leq	VCM Contribution dB(A),Leq	Criterion dB(A),Leq	Wind speed (m/s),dir	Stability Class	Identified Noise Sources dB(A),Leq	Exceedance (Yes/No)
N-AT1 / 7	9:24 pm	36	25	35	0.4 / 357	F	Cattle (34), traffic (29), VCM (24)	No
N-AT2 / 8	8:13 pm	34	IA	37	0.2 / 89	F	Traffic (34), wind (23), VCM (IA)	No

Table 6 VCM Operational Noise Monitoring Results Leq(15min) - 6 th June 2025 (Night)								
Location	Time	dB(A), Leq	VCM Contribution dB(A),Leq	Criterion dB(A),Leq	Wind speed (m/s),dir	Stability Class	Identified Noise Sources dB(A),Leq	Exceedance (Yes/No)
N-AT1 / 7	10:01 pm	38	22	40*	0.6 / 192	F	Cattle (36), Traffic (29), VCM (23)	No
N-AT2 / 8	11:47 pm	40	<20	42*	0.6 / 235	F	Traffic (40), VCM (<20)	No

Table 7 VCM Operational Noise Monitoring Results LA _{max} – 6 th June 2025								
Location	Time	dB(A), LA _{max}	VCM Contribution dB(A), LA _{max}	Criterion dB(A), LA _{max}	Wind speed (m/s),dir	Stability Class	LA _{max} Noise Source	Exceedance (Yes/No)
N-AT1 / 7	10:01 pm	48	24	57	0.6 / 192	F	Cattle	No
N-AT2 / 8	11:47 pm	55	<20	57	0.6 / 235	F	Highway	No

The real time noise monitor located on the “Long Way Round” property remains a management tool, so the noise criteria are not applicable at that site. Levels of noise recorded at that location are managed according to the noise management plan and trigger action response plan.

An additional real time noise monitor has been installed closer to the mine site, at Broadwater property.

Blast Monitoring

Blasting Results

There has been 14 Blasts at VCM from 1st April to 30th June 2025.

The highest recorded overpressure for the reporting period was 115.10dB recorded at B-02 monitor on the 30/05/2025.

The highest recorded ground vibration for the reporting period was 7.52mm/s recorded at B-02 monitor on the 21/06/2025.

VCM overpressure and ground vibration for the quarter was compliant and did not exceed the blasting criteria declared in the project approval and Blast Management Plan (BMP). Please refer to EPL Monitoring locations map in Appendix B for the location of these monitoring points.

Table 4 Max Peak Overpressure and Ground Pressure for the Quarter

Monitor Location	Date	Max. Peak Overpressure (dB)	Criterion (dB)	Date	Max. Peak Ground Pressure (mm/s)	Criterion (mm/s)
B-01	30/05/2025	108.5	133	21/06/2025	1.59	10
B-02	30/05/2025	115.10	N/A	21/06/2025	7.52	80
B-03	15/04/2025	109.70	120	21/06/2025	0.87	10

Air Quality Monitoring

Dust Deposition Results

Standard Australia AS/NZS 3580.10.1:2016, "Methods for sampling and analysis of ambient air – Determination of particulate matter – Deposited matter – Gravimetric Method," classifies deposited dust as insoluble solids. Therefore, VCM tests air quality monthly at mine-owned sites for indicative purposes, to infer compliance, against the limit of 4 g/m²/month.

Table 5 shows deposited dust gauge results over 12 months. All dust monitors that are located on project related or WHC owned land; as such compliance criteria (4g/m²/month) do not apply. While deposited dust trends remain steady during the reporting period (refer graph in *Appendix A*), some monitors are displaying non-mine related particulate matter deposition more regularly than others. Non-mine related particulate matter could be attributed to organic matter (such as leaves, mice, frogs, insects or bird faeces that fall in to the bottles), or they may be in farming locations, so during some months dust levels may be higher due to harvesting. Please refer to Dust Deposition Gauges Monitoring locations map in Appendix B for the location of these monitoring points.

Table 5 Deposited Gauge Results [g/m2/month]

Month	D1	D2	D12	D13B	DG1	DG2	V1	V2	V3	V4	V5
Jul-24	0.4	0.7	0.3	0.4	0.9	0.6	0.6	0.3	1.8	1	0.6
Aug-24	0.5	0.2	0.2	0.2	1.4	0.4	0.9	0.3	6.7	0.5	0.4
Sep-24	1.7	0.4	0.3	0.5	3.1	0.5	0.5	0.5	0.5	0.6	0.4
Oct-24	0.4	0.1	0.2	1	0.7	0.4	0.4	0.6	0.5	1.8	0.5
Nov-24	1.3	0.7	0.9	1	1.6	2.1	0.7	0.2	3.9	1.1	1.3
Dec-24	0.4	0.8	1.8	2	2.5	0.5	2.2	0.7	8.7	1.3	4.0
Jan-25	0.3	2.2	0.8	2.2	1.8	0.9	1.4	0.9	5	1	5
Feb-25	1.2	1.8	1.9	2.0	1.5	1.7	2.1	1.6	1.4	2.3	2.7
Mar-25	0.2	0.1	0.1	0.3	0.2	0.2	0.1	0.1	0.1	3	2.3
Apr-25	0.4	1.3	1.2	4.3	0.3	0.7	0.5	0.3	1.3	0.6	1.2
May-25	0.6	2.2	2.1	1.2	4.2	0.8	1.3	0.5	1.9	1.1	1.6
Jun-25	0.6	3.8	1.3	1.4	3.0	1.5	0.4	0.6	1.1	0.6	2.3
Average	0.7	1.2	0.9	1.4	1.8	0.9	0.9	0.6	2.7	1.2	1.9

Real-time Air Monitoring (PM_{2.5} and PM₁₀)

Two real-time air quality monitoring units are located on private property adjacent to the Vickery Coal Mine. PM1 is located at Lanreef and PM2 at Mirrabinda to the south and south-west of the operations. These are used as both a compliance and an operational management tool. Dust levels nearing or reaching the nominated criteria will trigger actions onsite to assess the source of dust and modify operations if it is determined to be related to Vickery operations. Additional air quality monitoring units are located at Wil-gai and Roseberry and these are used for additional information and operational management in accordance with the Vickery Air Quality Management Plan. These units are also associated with other regional operations at Tarrawonga and Rocglen. Please refer to Air Quality Monitoring locations map in Appendix B for the location of these monitoring points.



Figure 1: TEOM installed at Lanreef

Water Monitoring

Groundwater

Routine groundwater monitoring has been conducted 6 monthly since 2021 and quarterly since 2023. In October 2023, Hydra-sleeve monitoring was introduced to Vickery's groundwater bores. Appendix C contains the Hydrographs for Vickery's GW bores. Monitoring indicates stable GW levels. Water quality data in a few bores is showing a departure from the interim trigger levels. This will assist to inform the development of the final trigger levels for GW monitoring as described in the Water MP. As mining below the water table has only just begun to occur any triggers of the interim TARP are due to the background levels naturally being different to the generic triggers sourced from external benchmarks. Please refer to Groundwater Monitoring locations map in Appendix B for the location of these monitoring points.

Surface Water

Water storage onsite is expected to be sufficient for at least 12 months. VCM has not undertaken any discharges during the period. Please refer to EPL Monitoring locations map in Appendix B for the location of these monitoring points.

Table 6 Surface Water Results for April, May and June

April	Namoi DS 1	Namoi DS 2	Namoi DS 3	Namoi US
pH	8.05	8.02	8.06	8.10
Electrical Conductivity (µS/cm)	517	507	483	515
TSS	34	33	42	40
Oil & Grease (mg/L)	<5	<5	<5	<5
May	Namoi DS 1	Namoi DS 2	Namoi DS 3	Namoi US
pH	7.65	7.68	7.67	7.71
Electrical Conductivity (µS/cm)	297	292	292	288
TSS	540	944	1140	825
Oil & Grease (mg/L)	<5	<5	<5	<5
June	Namoi DS 1	Namoi DS 2	Namoi DS 3	Namoi US
pH	8.33	8.31	8.33	8.32
Electrical Conductivity (µS/cm)	578	582	582	579
TSS	39	32	29	34
Oil & Grease (mg/L)	<5	<5	<5	<5

May	MWD2
pH	8.20
Electrical Conductivity (µS/cm)	2220
TSS	15
Oil & Grease (mg/L)	<5

VCM has recorded **258.4mm** of rain for 2025 at our MET 2 weather station.

Table 7 Annual Rainfall

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Monthly Rain (mm)	18.8	22	217.6	44.6	60.2	15.4							378.6
Cumulative (mm)	18.8	40.8	258.4	303	363.2	378.6							

Clearing

Clearing is currently ongoing at Vickery, approximately 560ha have been cleared during FY24. Topsoil and Subsoil is being stored separately in designated stockpiles areas. The stockpiles will be ripped and seeded to maintain viability for rehabilitation.



Figure 2: Image of recent clearing and soil stockpiles

Complaints

No complaints have been received during the reporting period.

Approvals

The last Environmental Protection Licence (EPL) Variation was received on the 29th January 2025.

Environmental Management Plans

Approvals

All the currently approved Management Plans are available on the WHC website.

The revised Noise Management plan has been approved by DPHI in May 2025.

The Air Quality and Greenhouse Gas Management Plan was submitted to the DPHI, comments were received and has now been re-submitted.

Biodiversity Management Plan has been submitted to DPHI for review and will be finalised following approval.

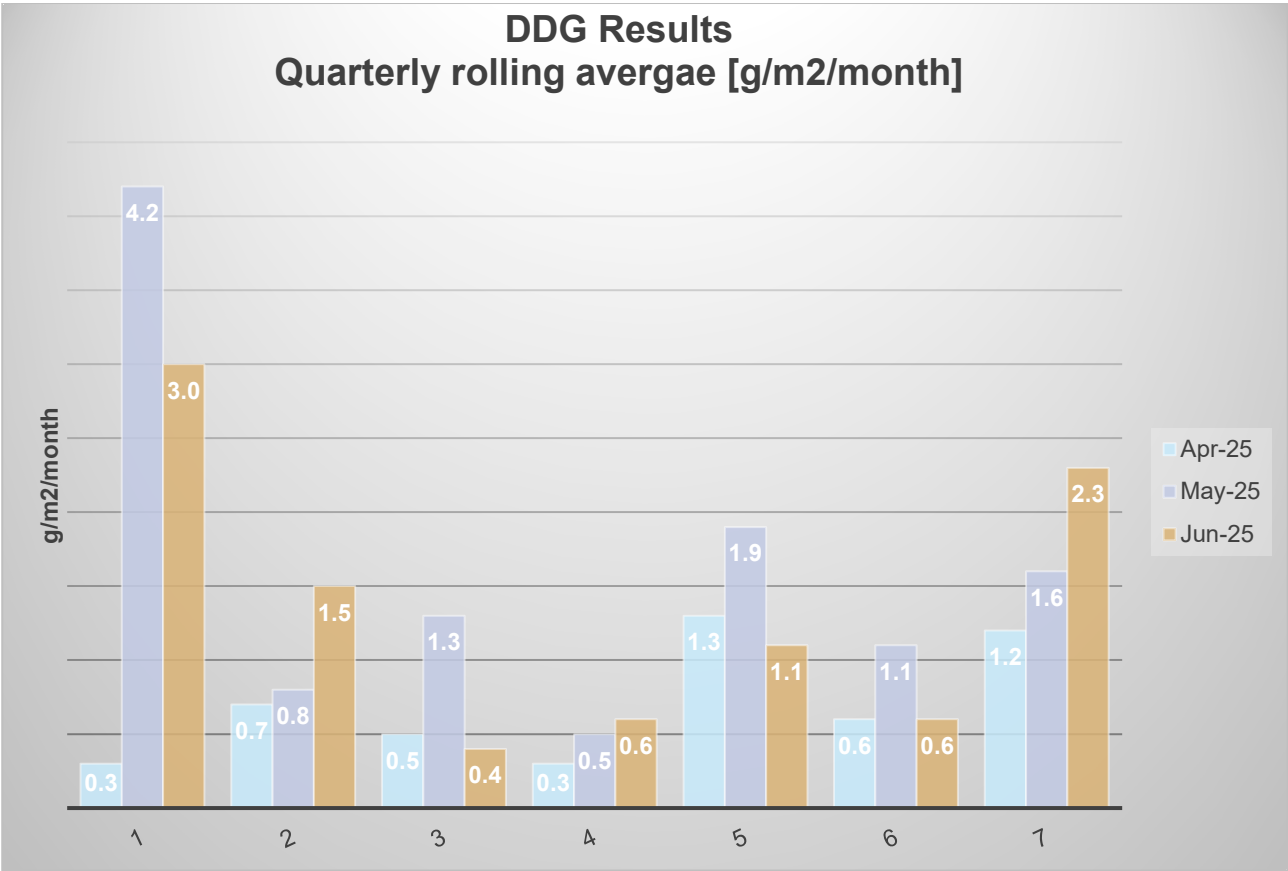
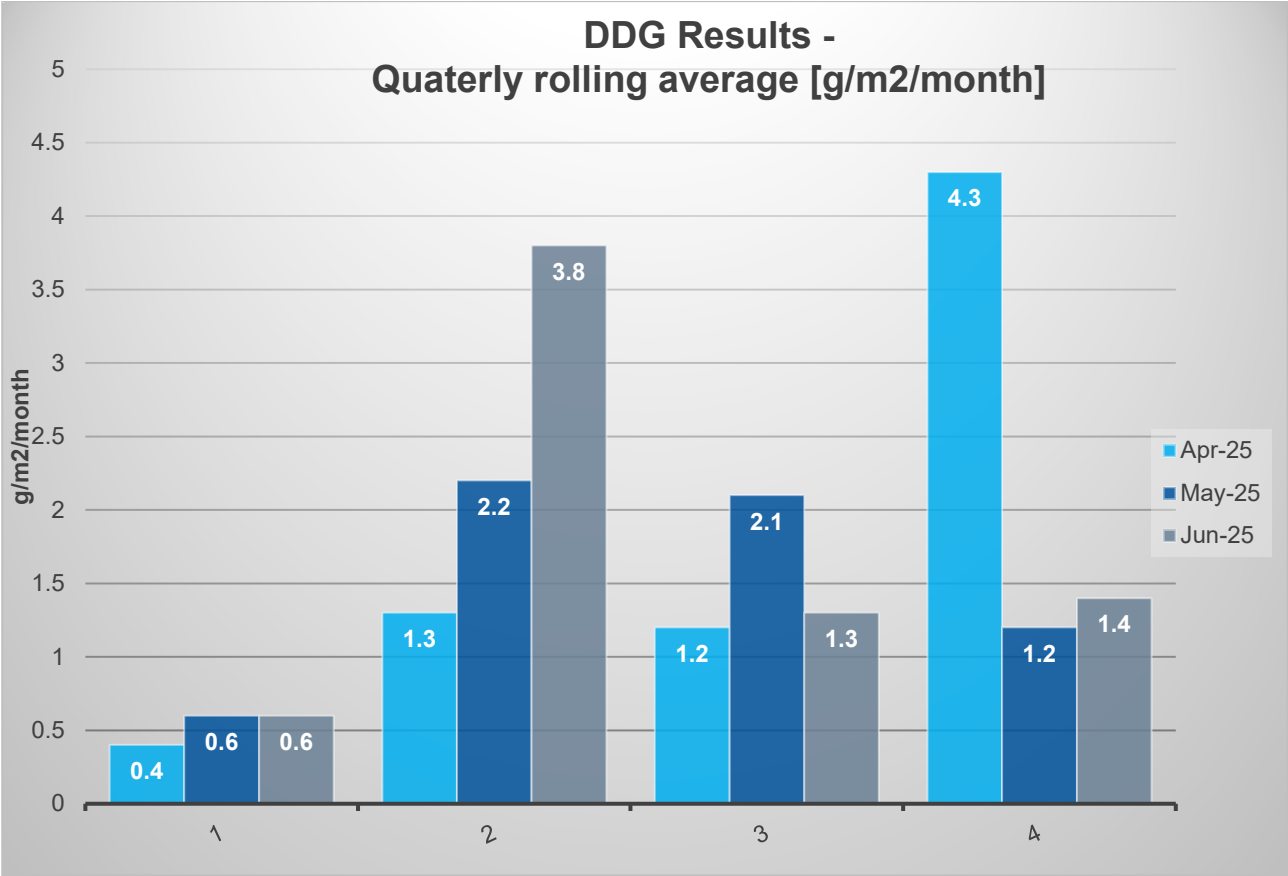
The Blast Management Plan has been revised and submitted and is awaiting assessment.

The Waste, Aboriginal Cultural Heritage, Water and Traffic Management Plans will be reviewed and submitted following approval of MOD1.

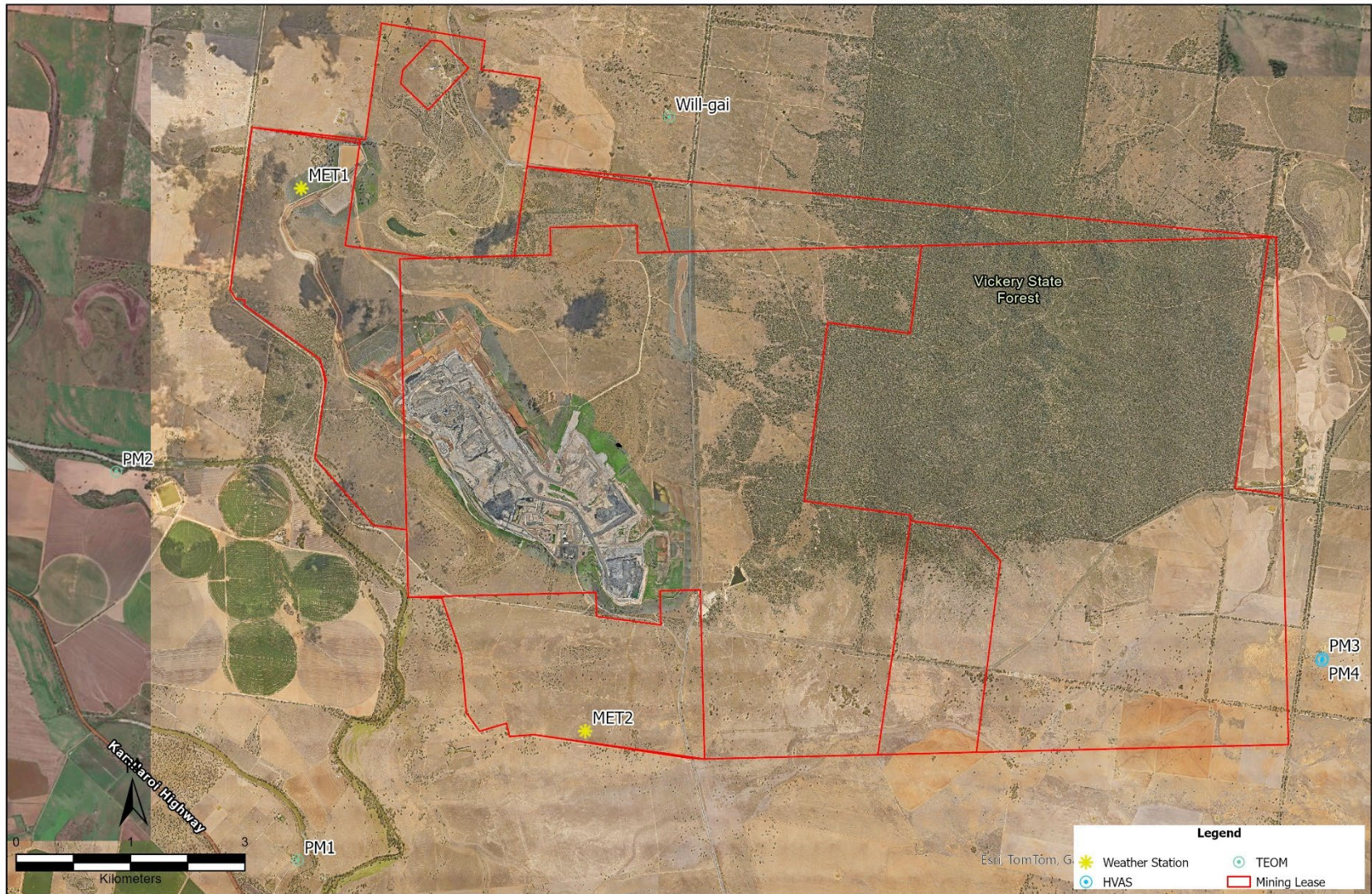
MOD1 was submitted in August 2024 and is at the assessment stage. As described in April 2024 at the CCC meeting this Modification is to:

- amend the Blue Vale Road realignment to a lesser impact;
- to allow the export of gravel from the VEP in line with existing approvals at Tarrawonga and the original Vickery Coal Project (SSD-5000);
- Construction and use of water pipelines from additional existing groundwater bores and to the Rocglen Coal Mine;
- Potential relinquishment of the secondary infrastructure area;
- A temporary access road and additional soil stockpile area;
- Temporary concrete batching plant;
- Disposal of waste heavy vehicle tyres;
- Reduction to the open cut extent and improved waste rock emplacement and landform design;
- Extended ROM coal road haulage hours to align with the Tarrawonga Modification 10; and
- Schedule of Lands update.

Appendix A

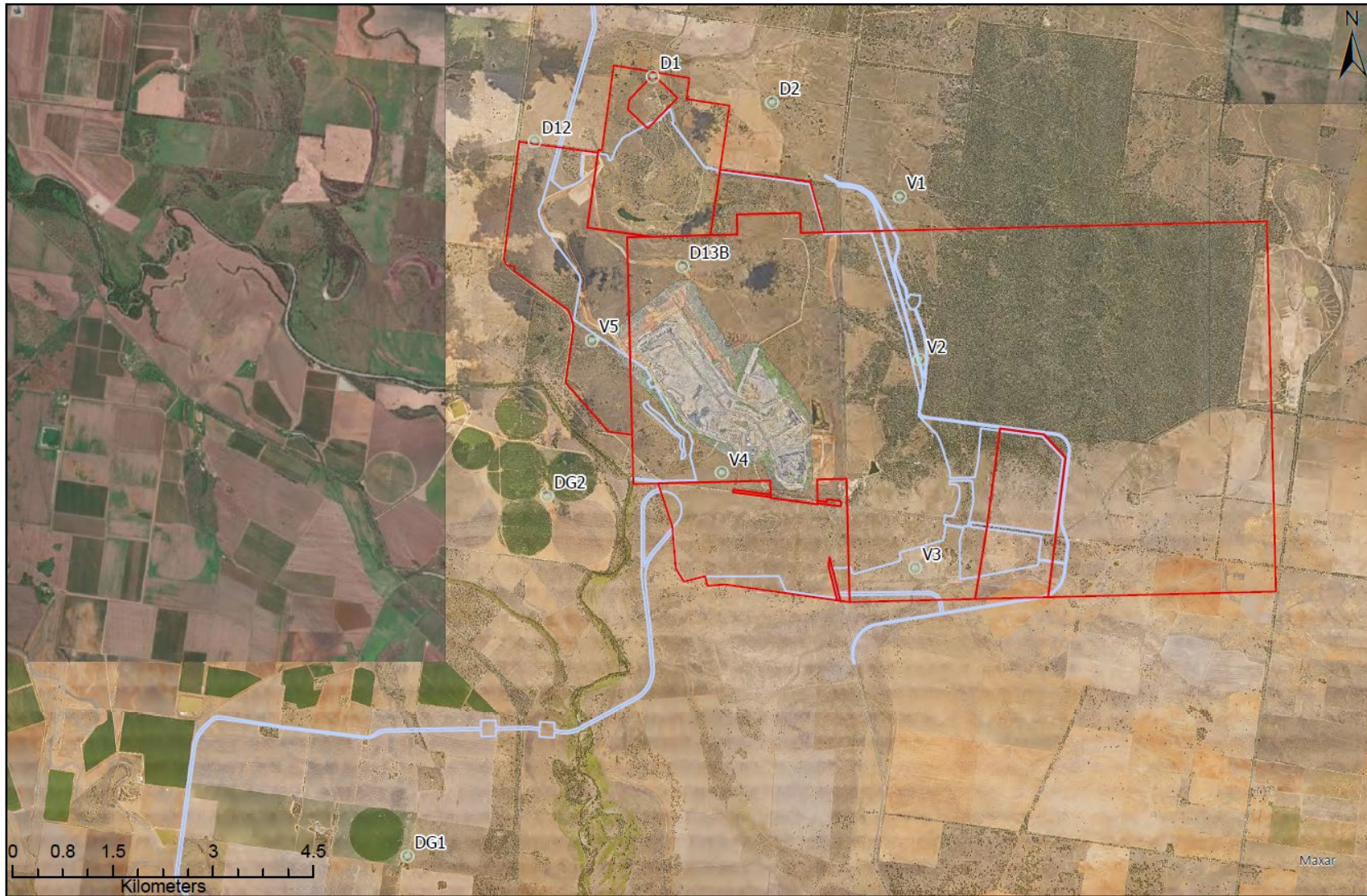


Appendix B



**Vickery Coal Mine
Air Quality Monitoring Locations**

Date: Oct 2024 Scale: 1:51,000
MGA Zone 56 Author: A. Quiroz






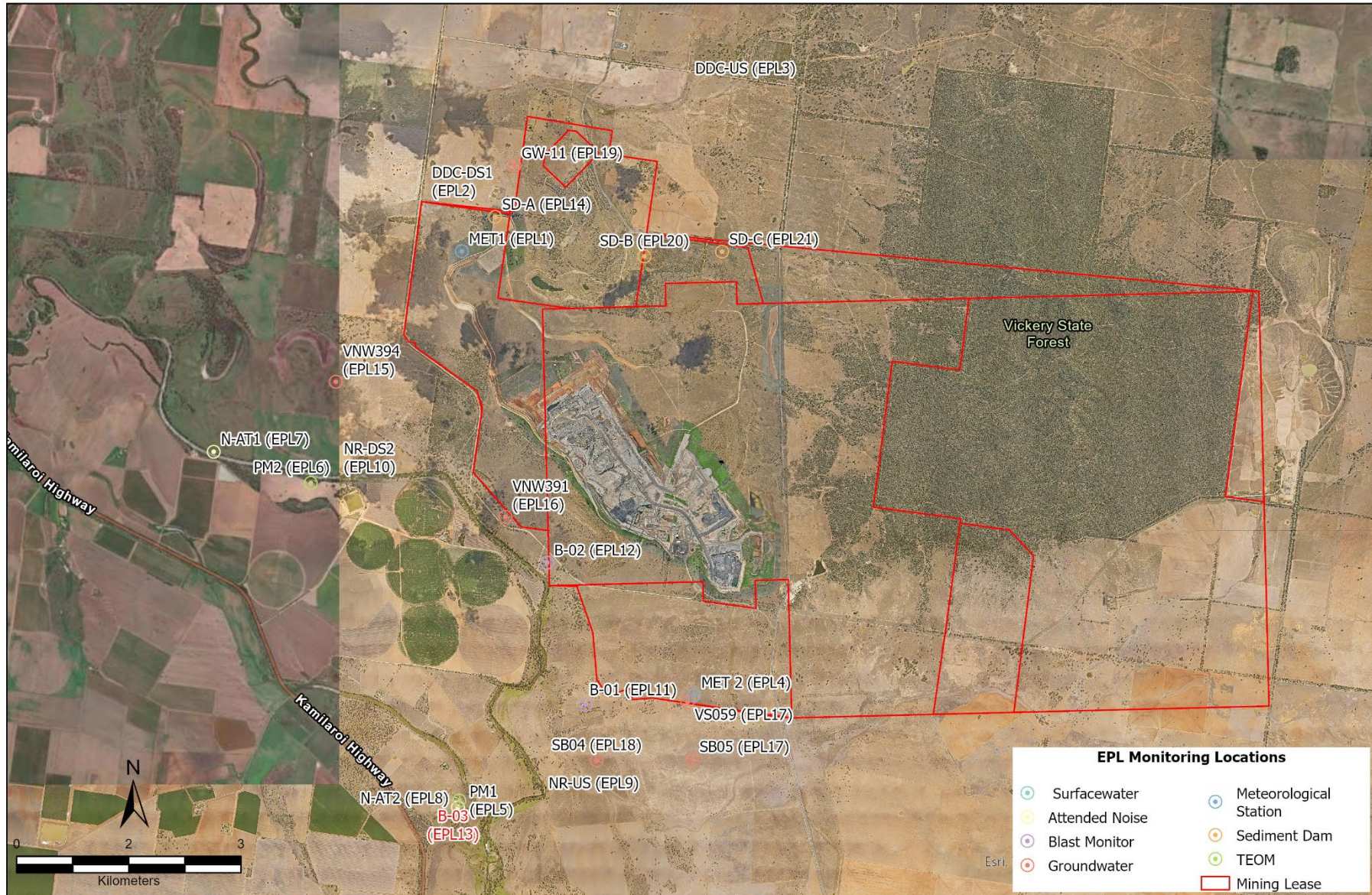
Dust Deposition Gauges Monitoring Locations

Date: Jun 2024
 MGA Zone 56

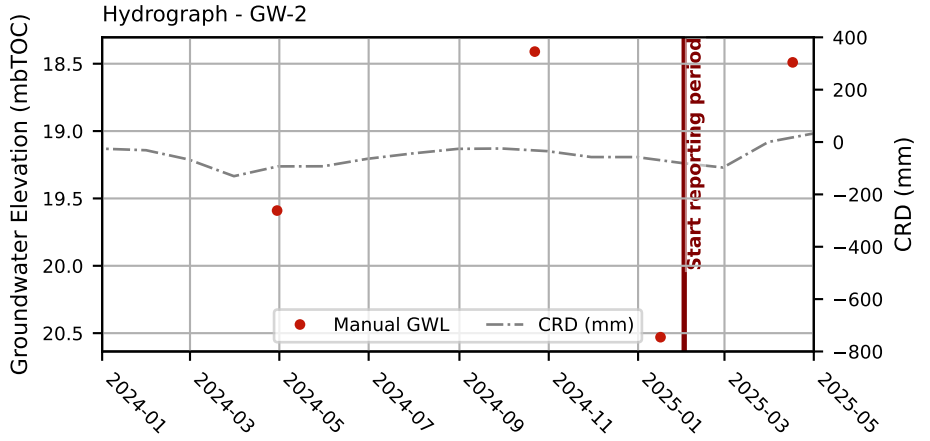
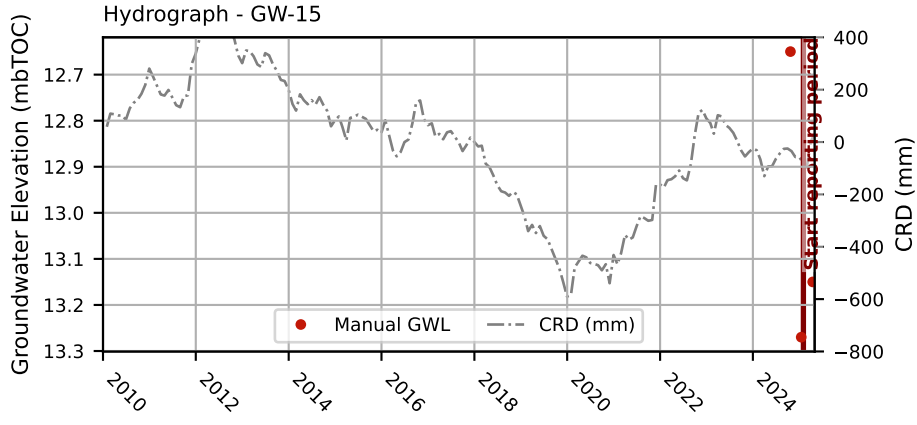
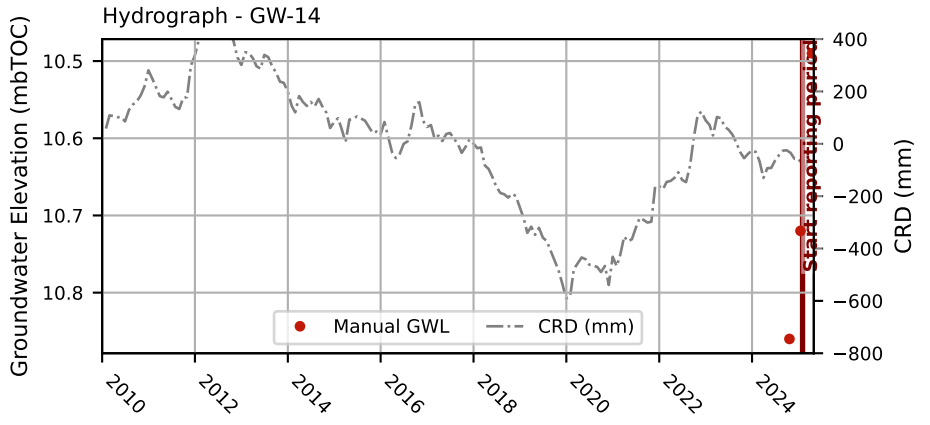
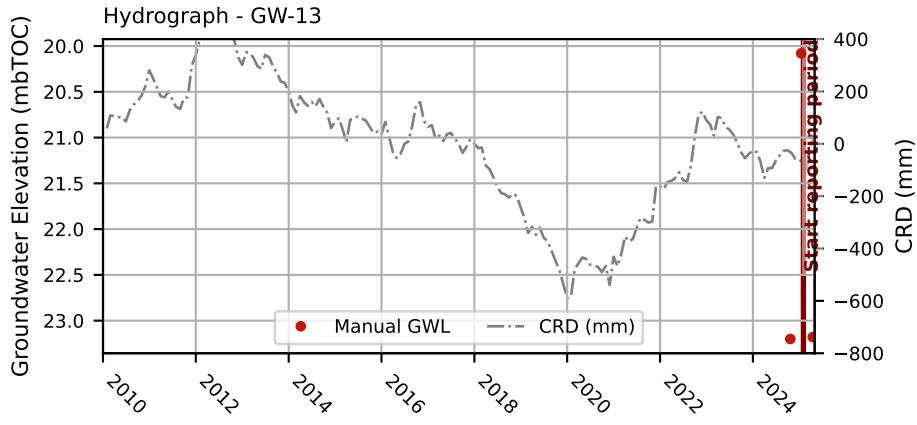
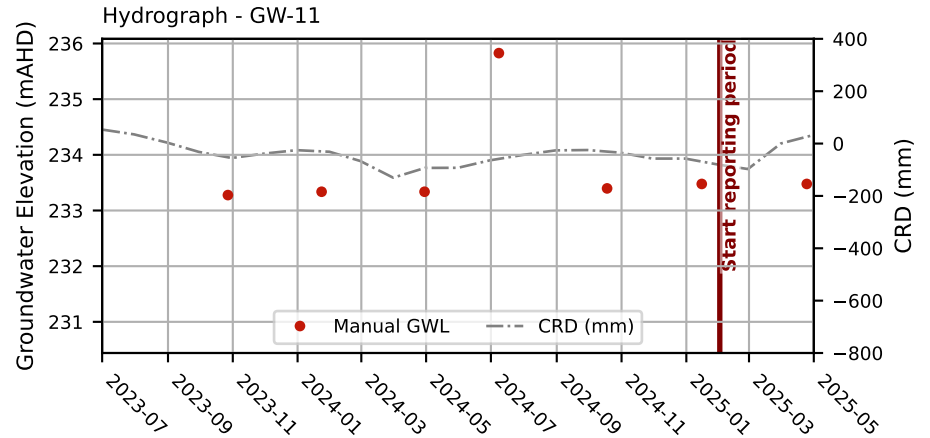
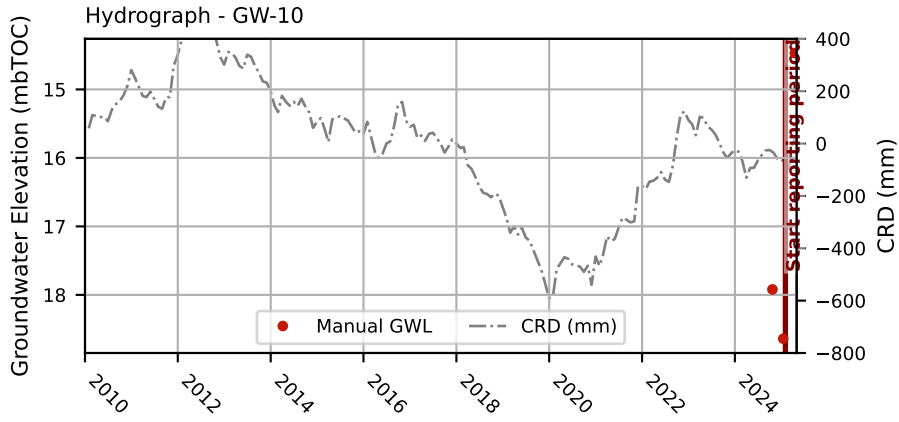
Scale: 1:70,000
 Author: A. Quiroz

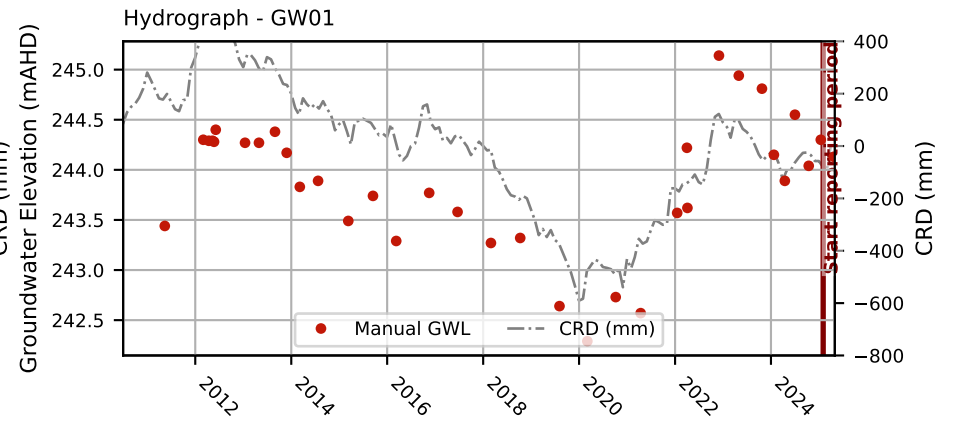
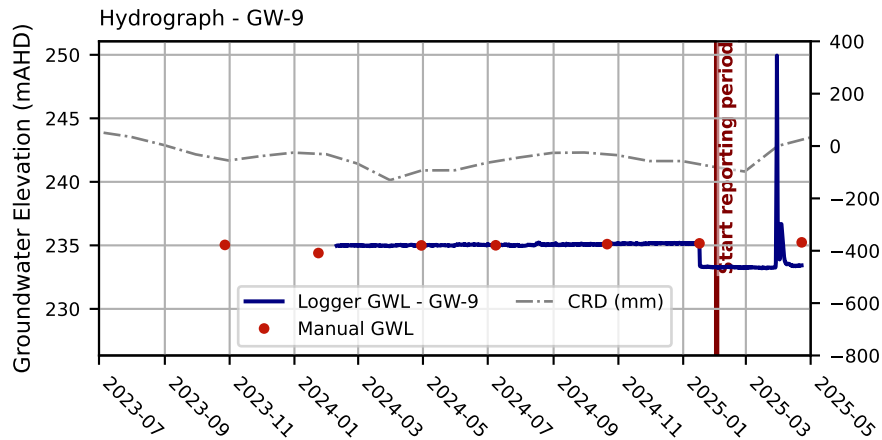
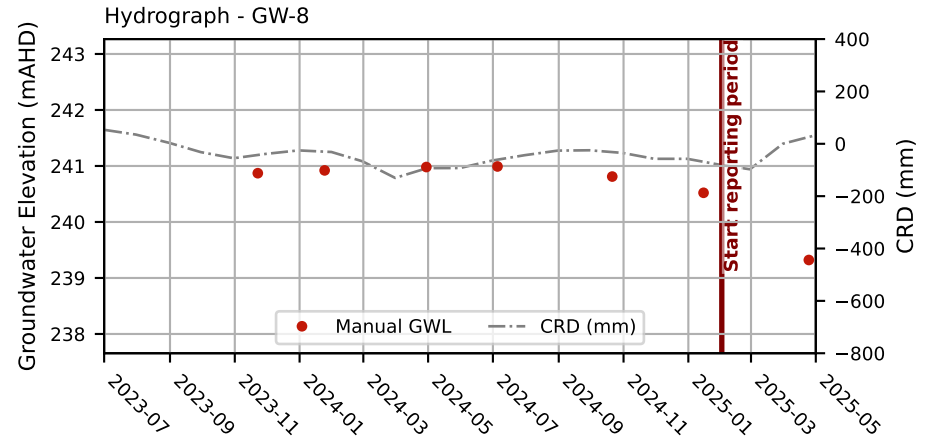
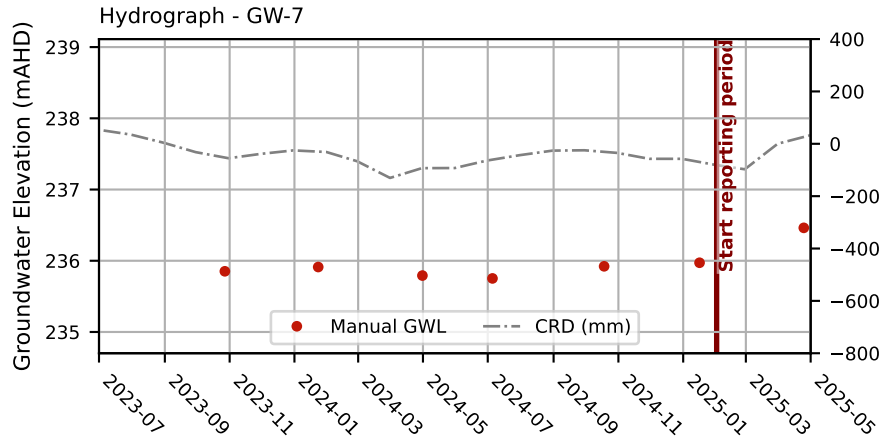
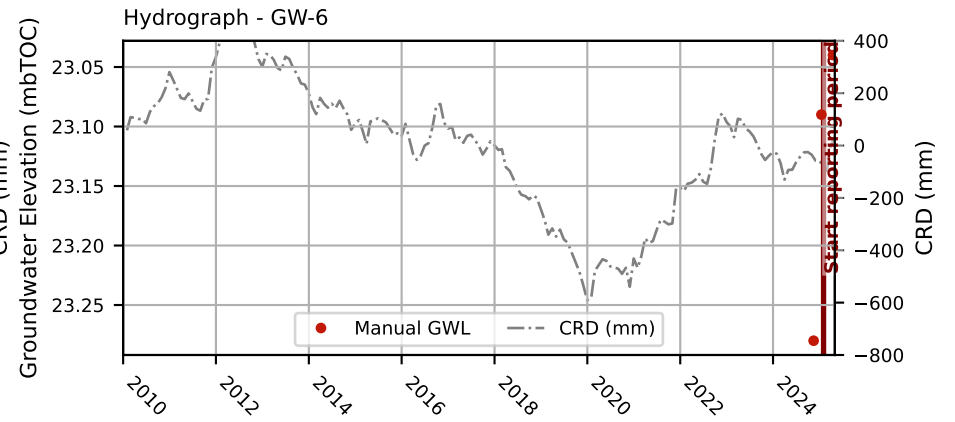
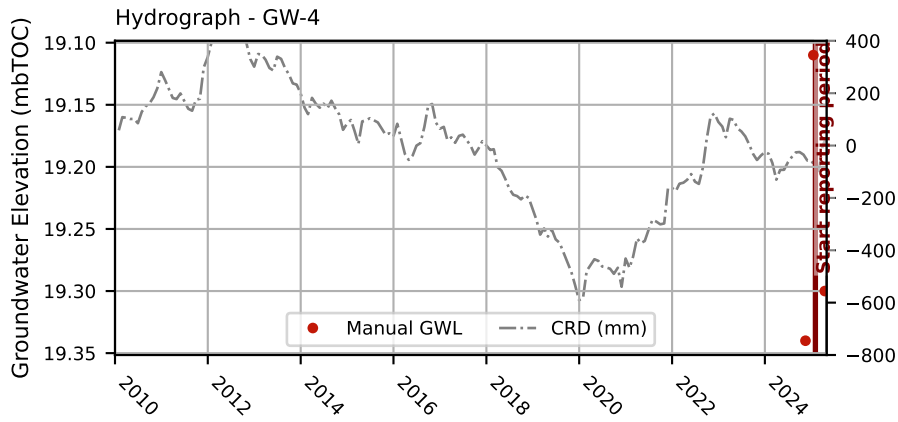
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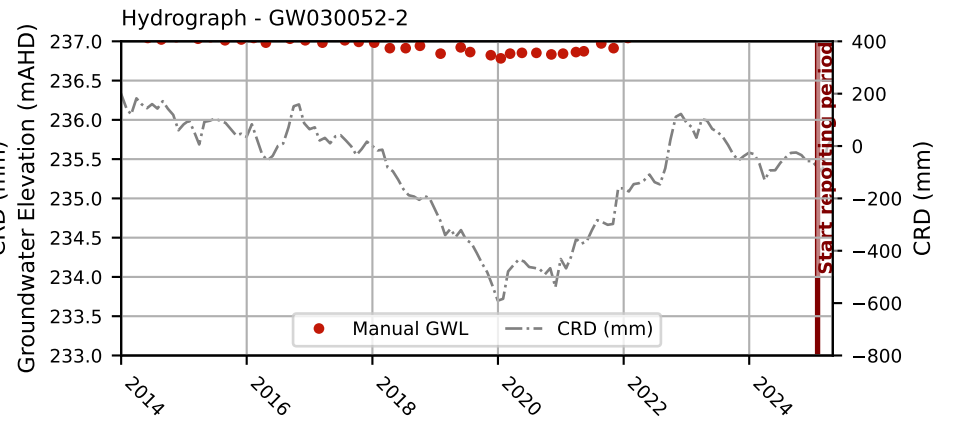
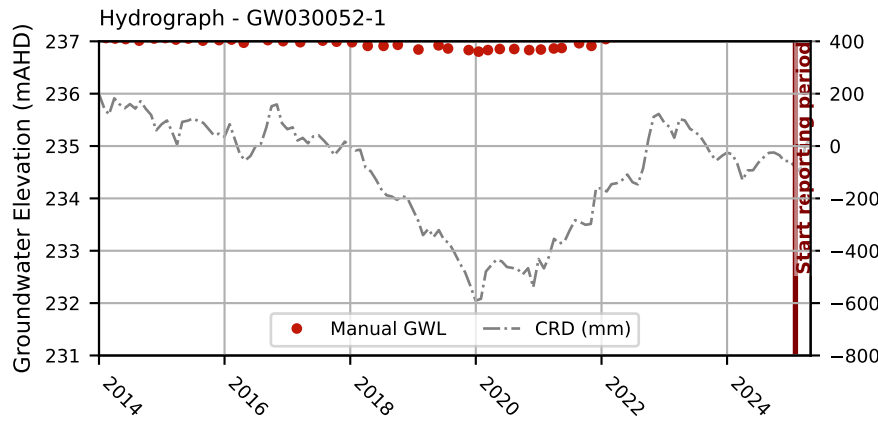
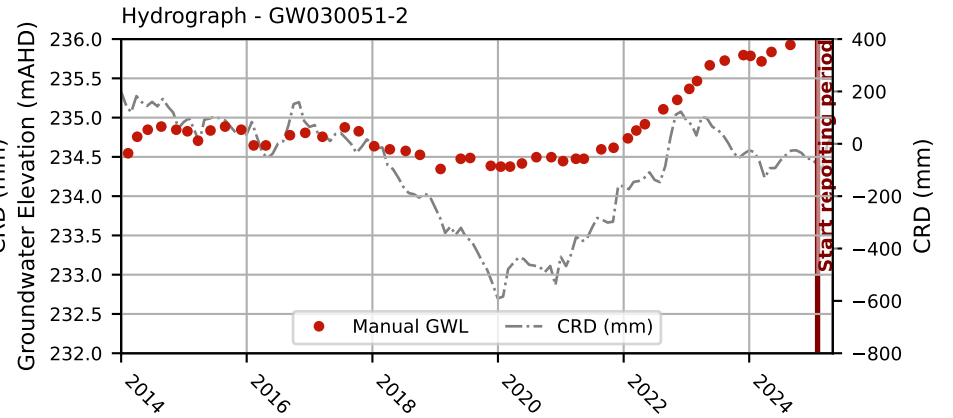
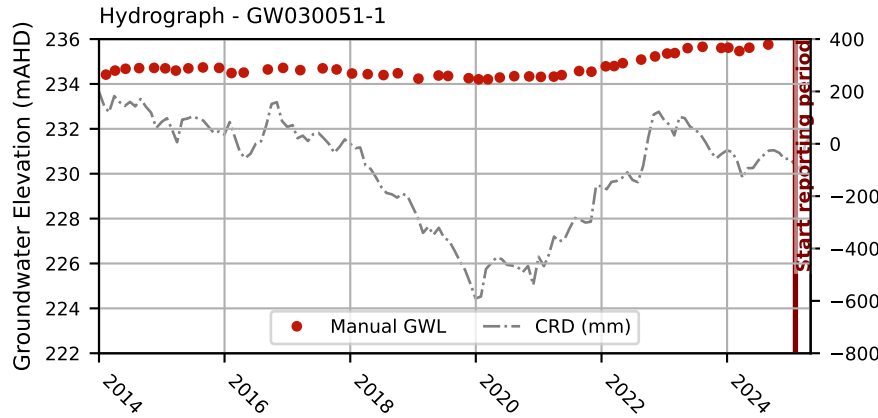
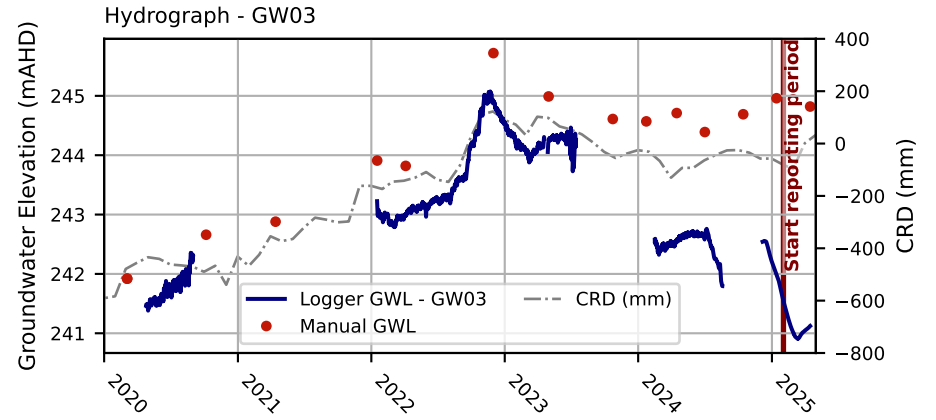
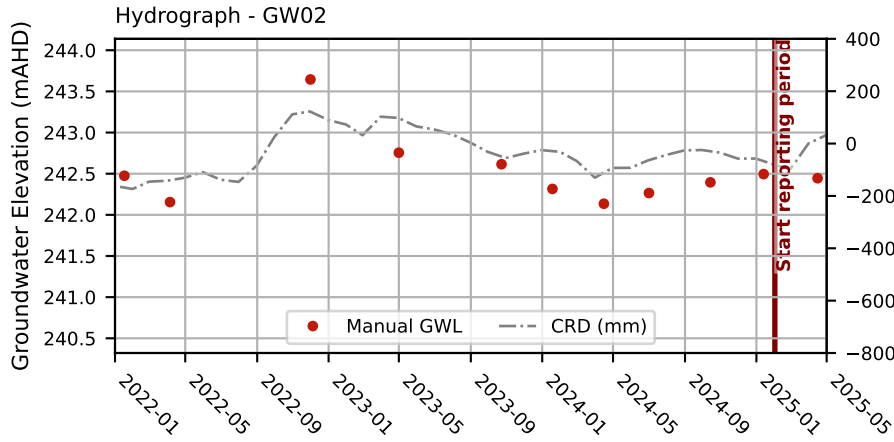
-  DDGs
-  Mining Lease
-  Approved Disturbance Area

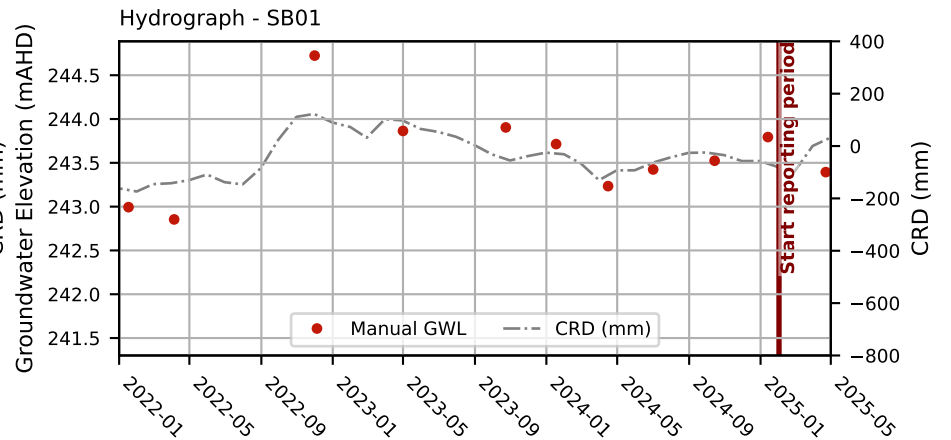
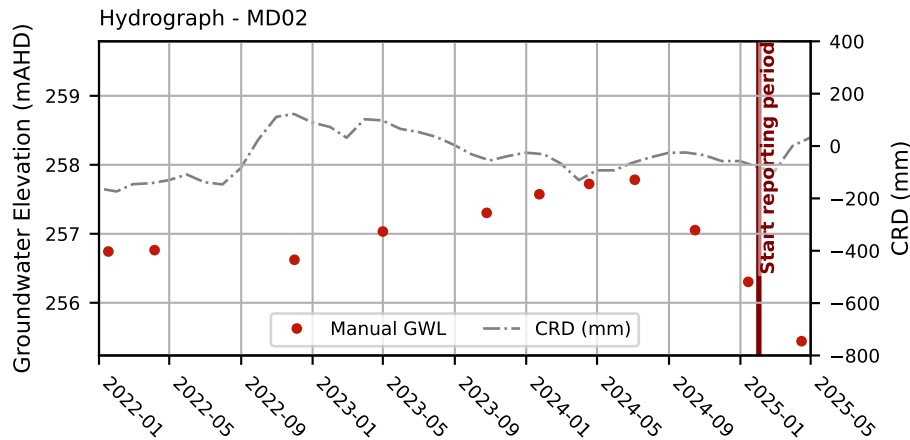
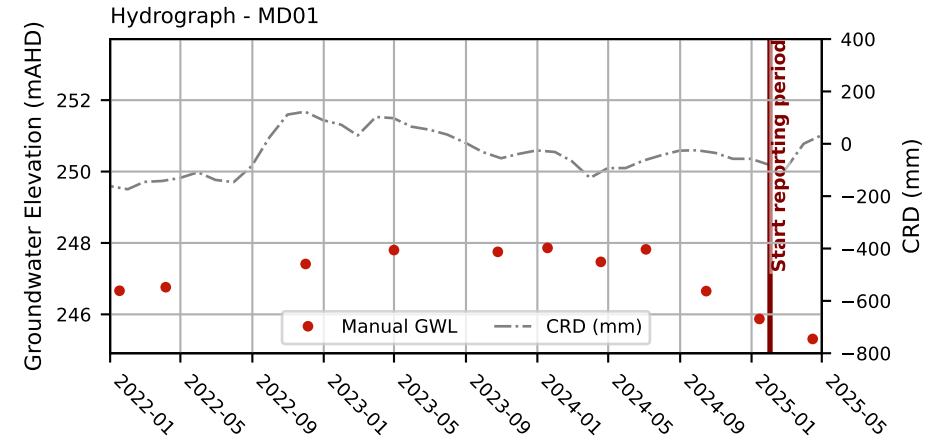
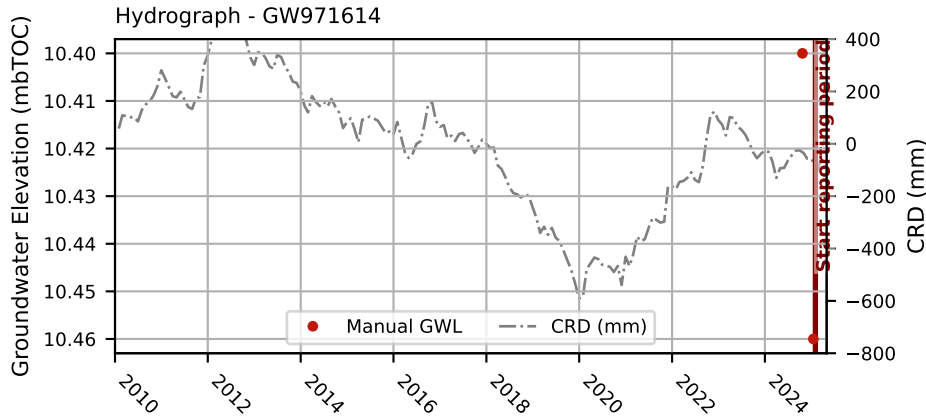
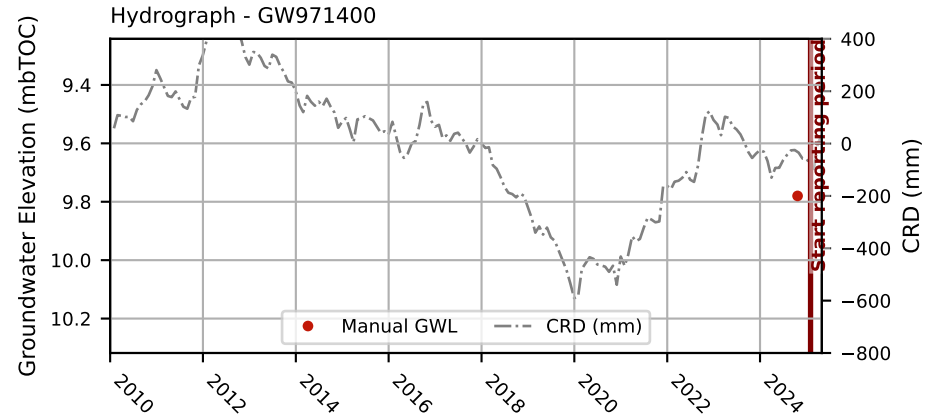
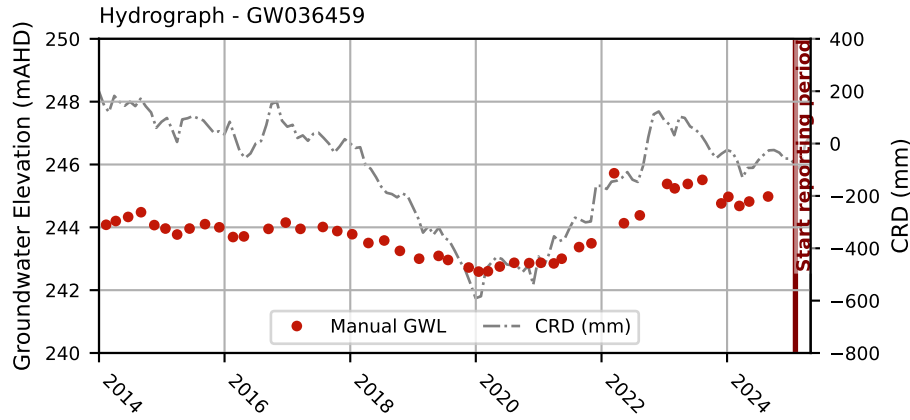


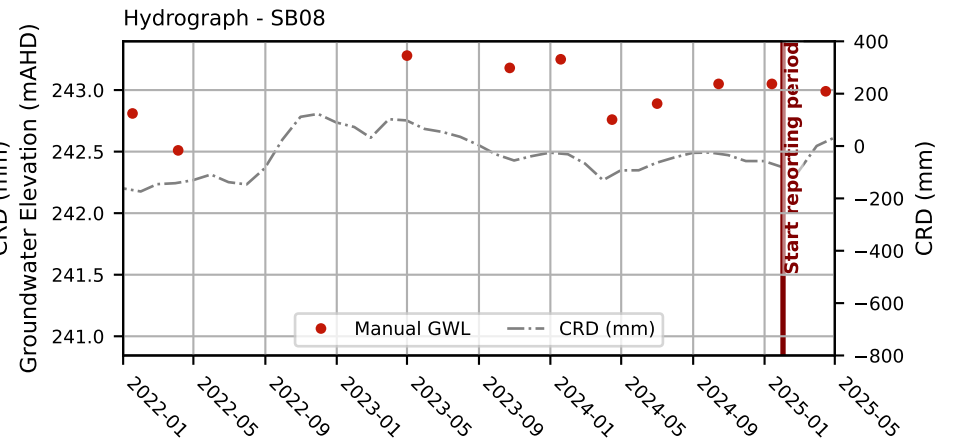
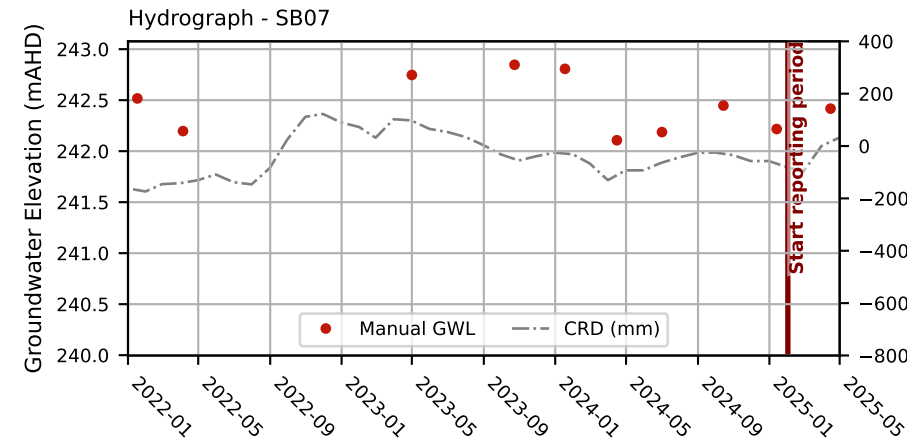
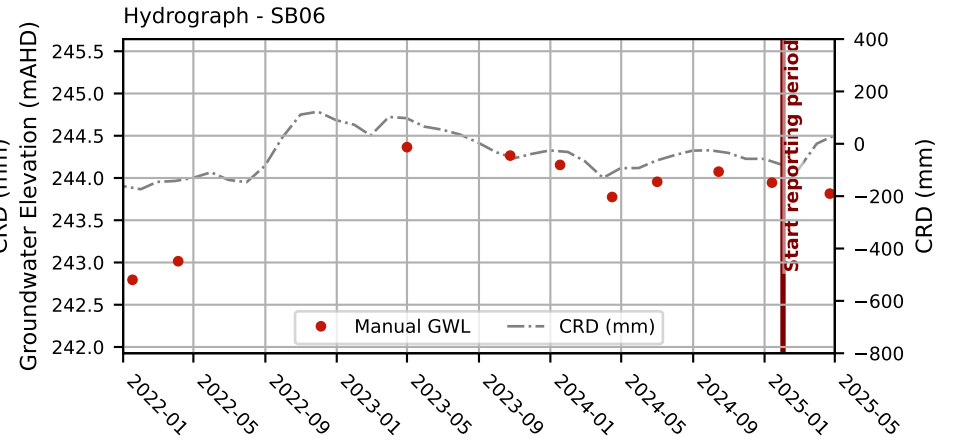
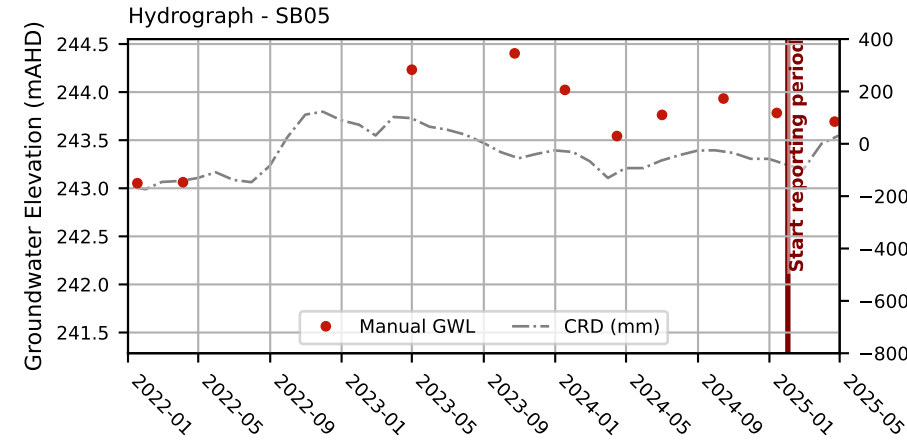
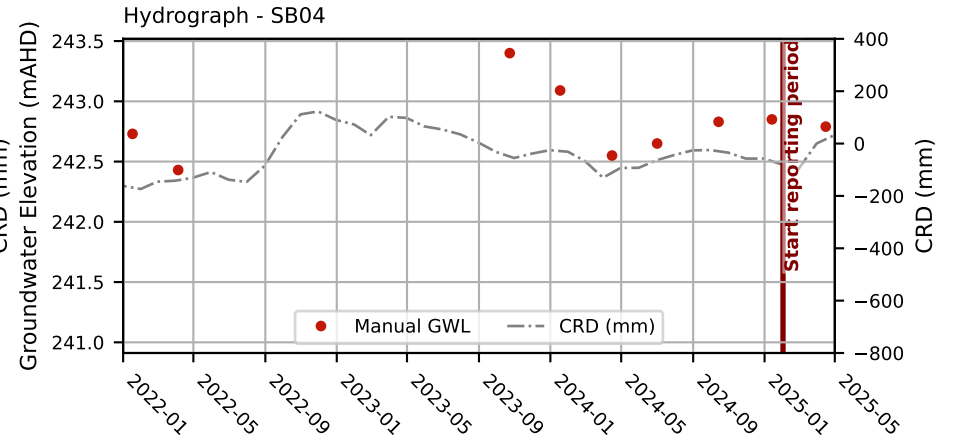
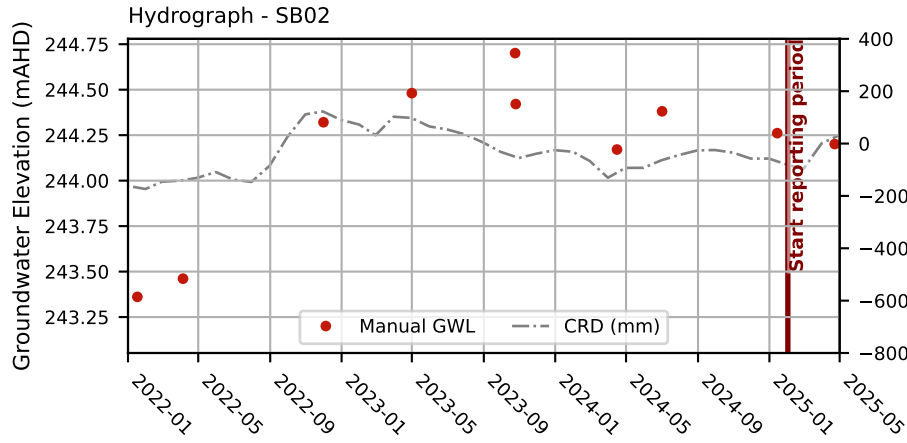
Appendix C

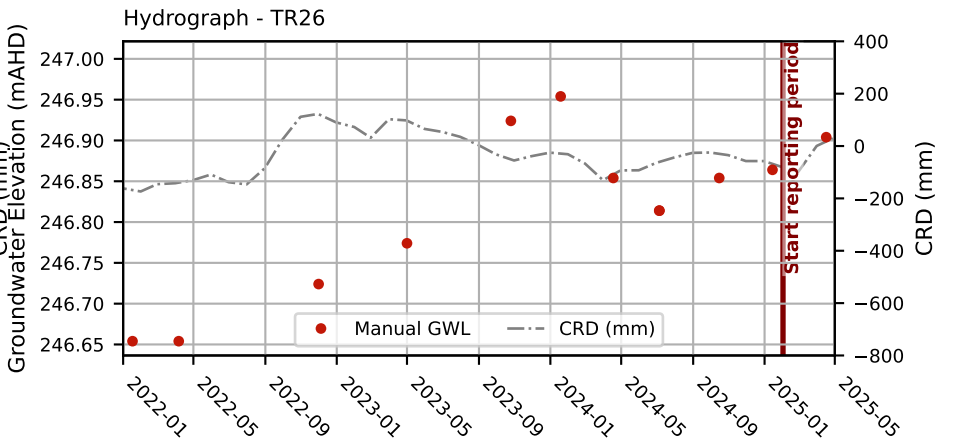
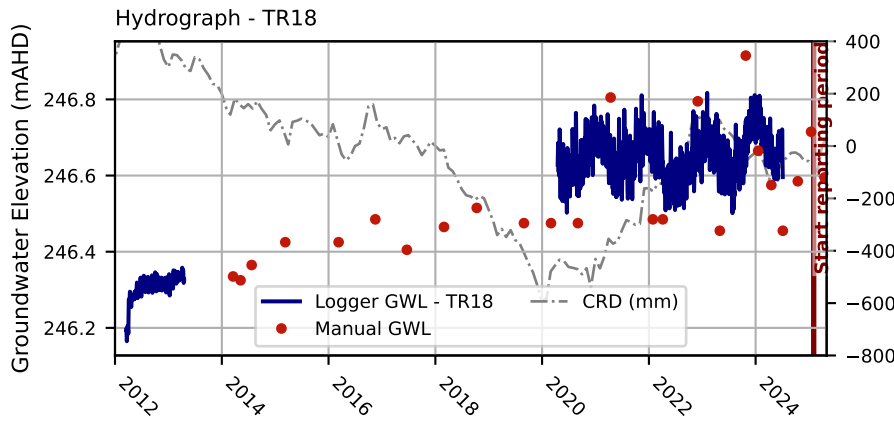
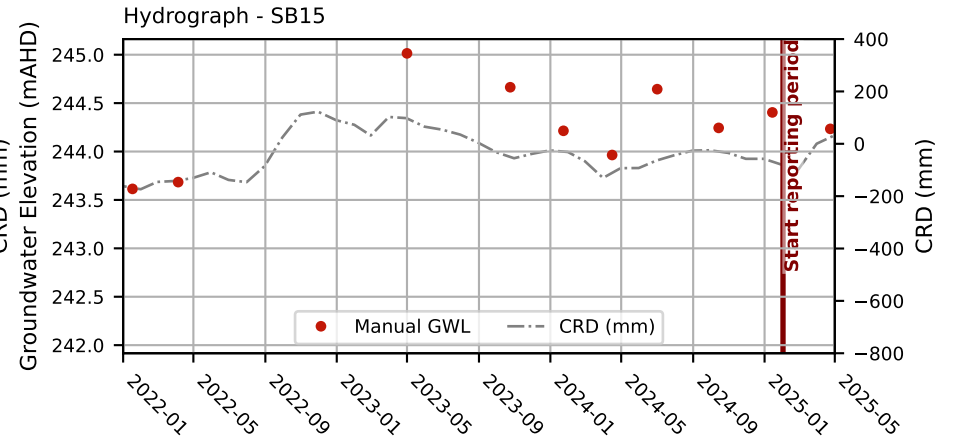
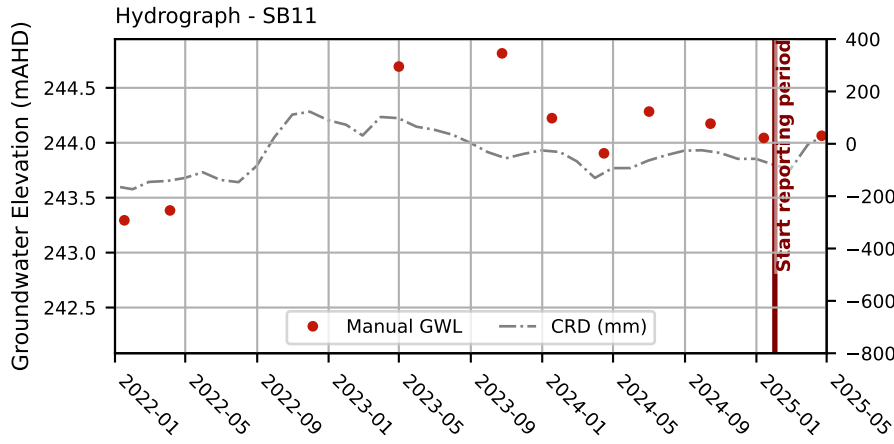
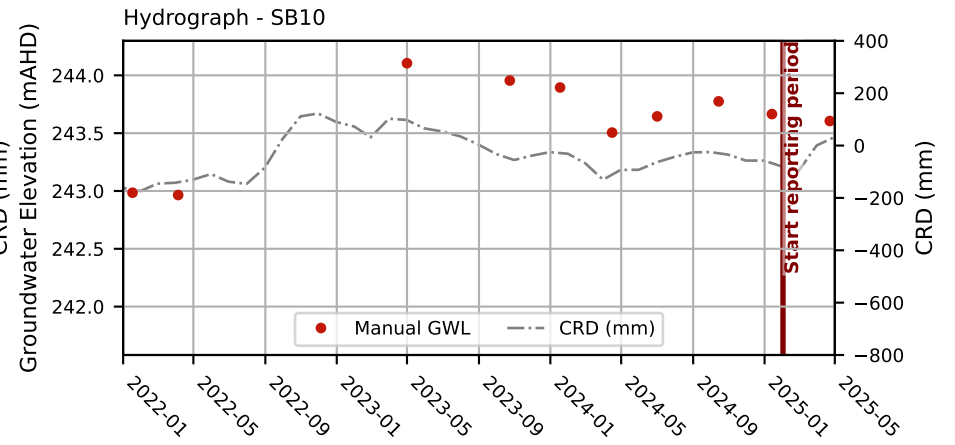
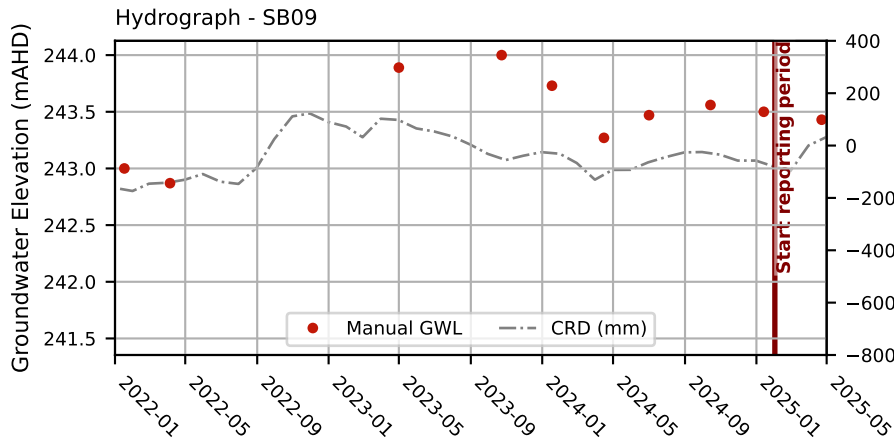


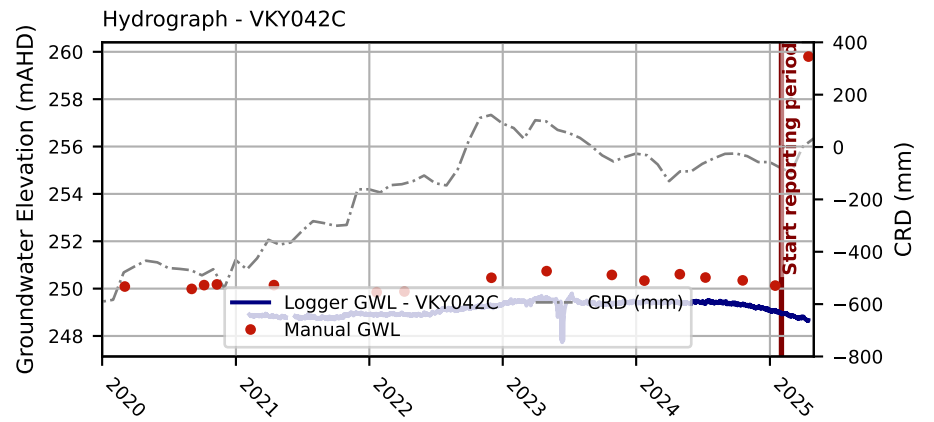
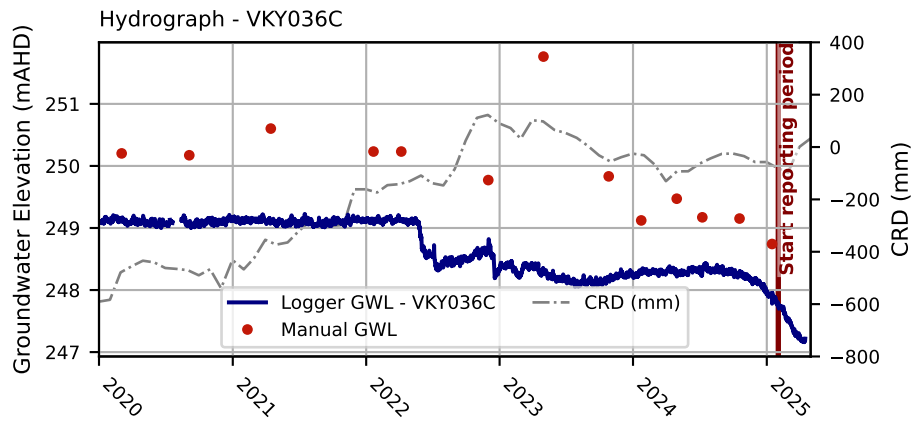
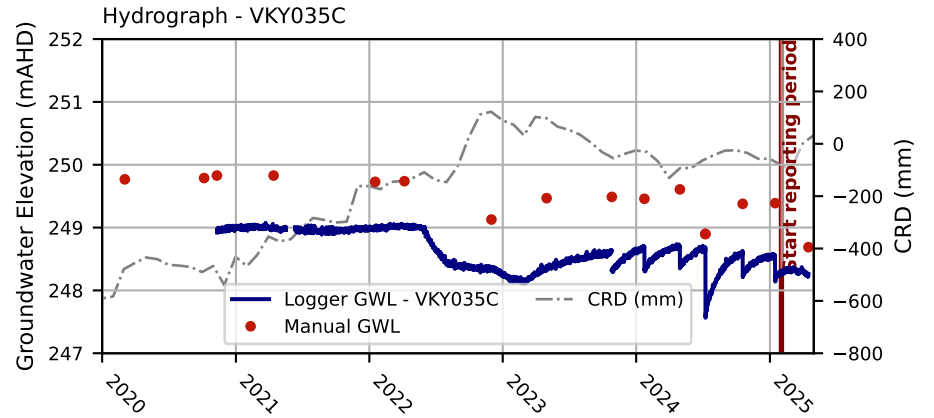
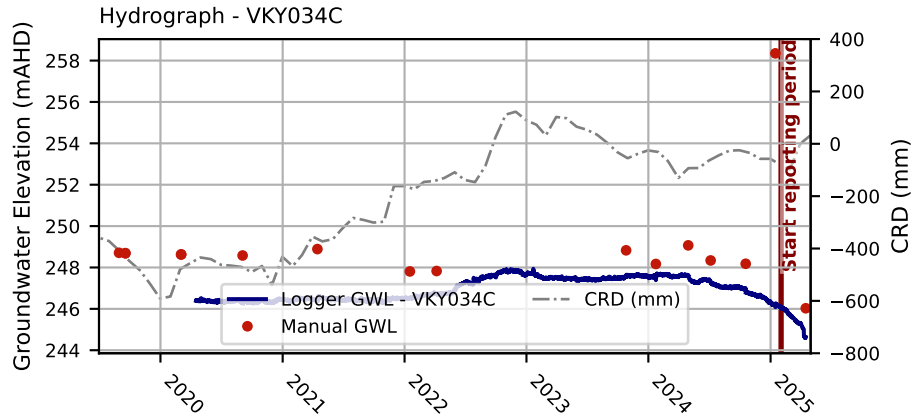
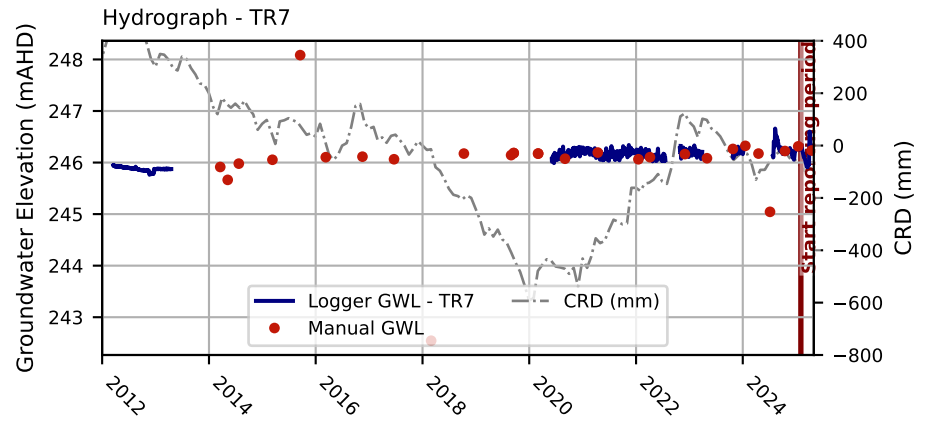
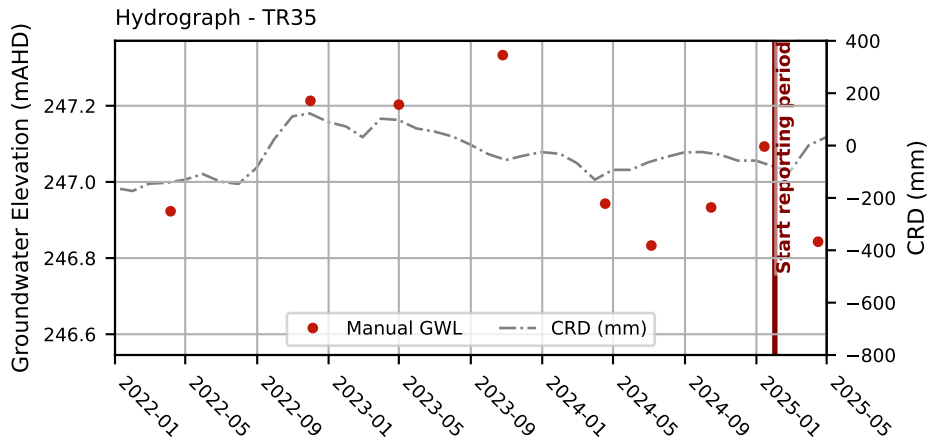


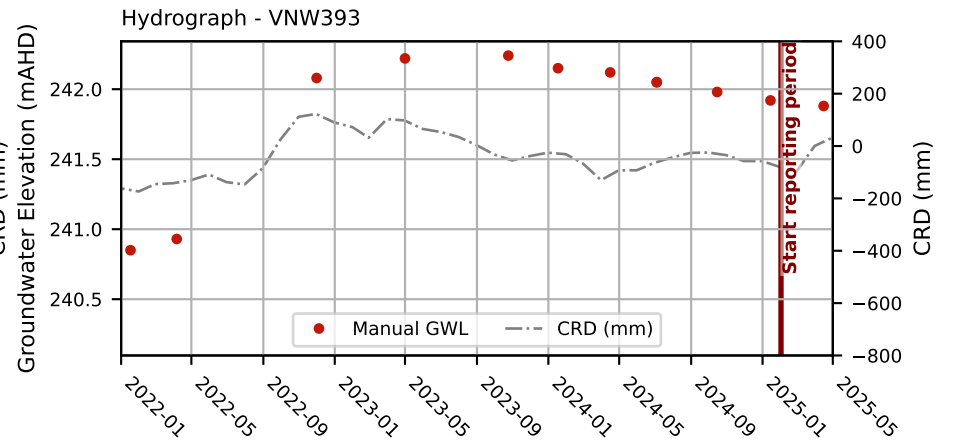
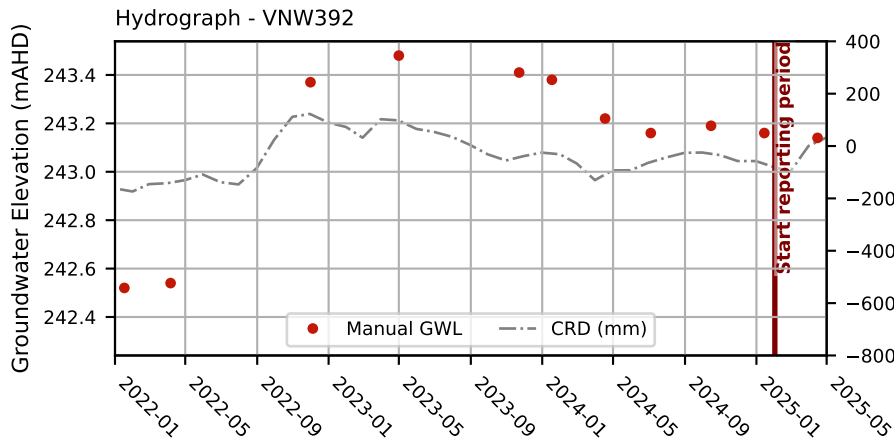
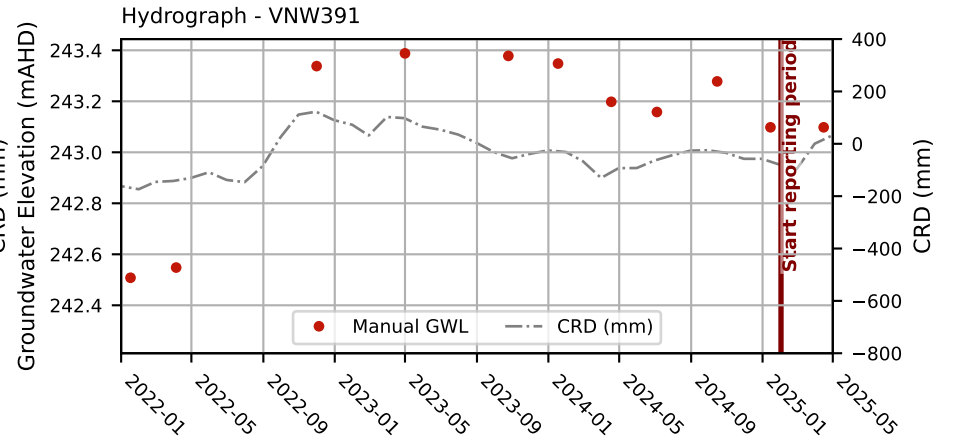
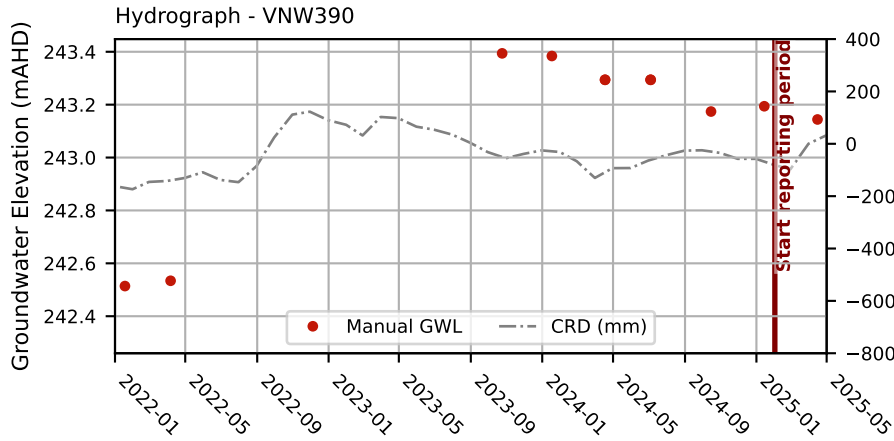
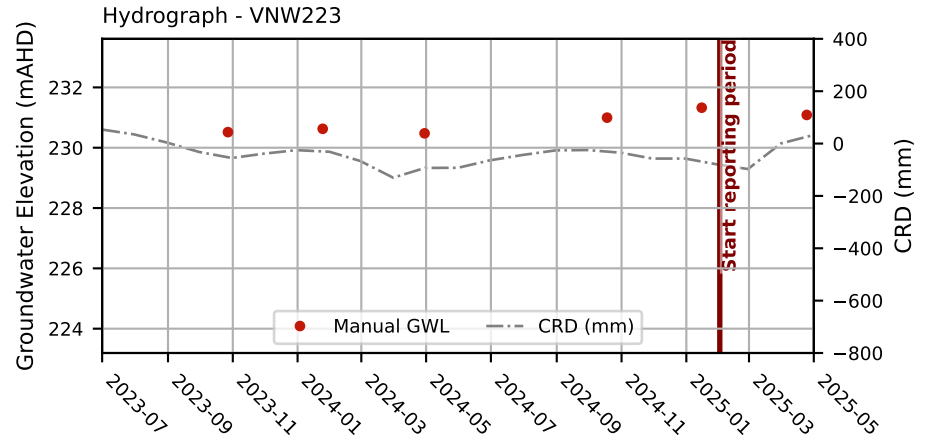
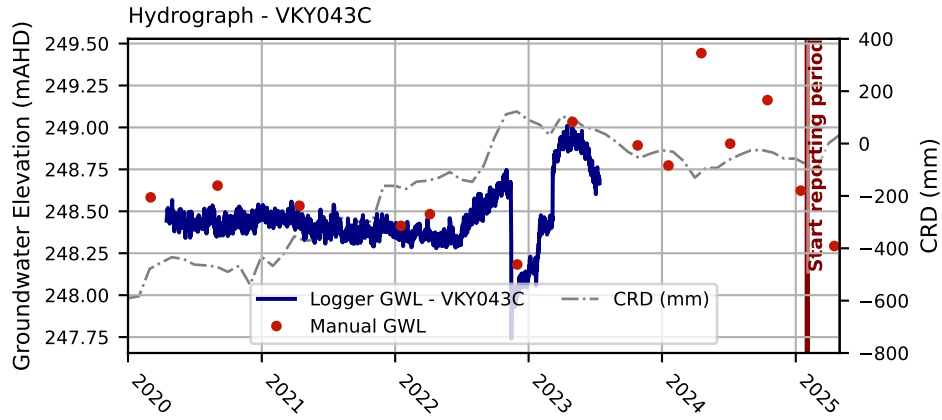


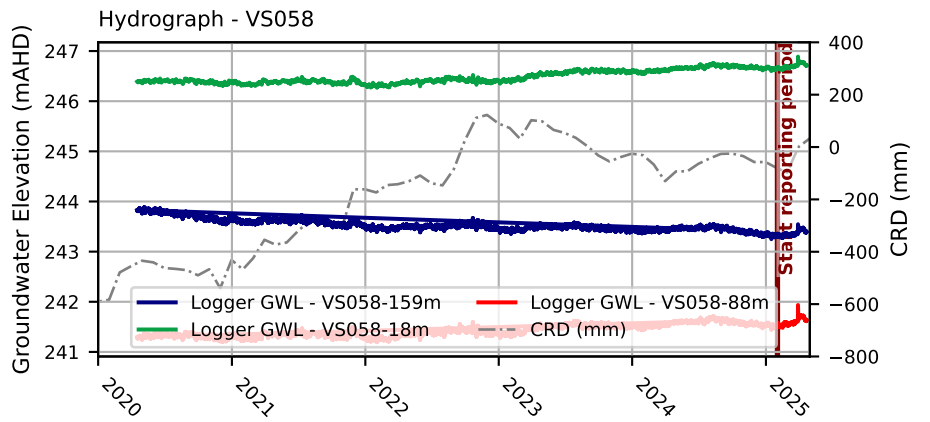
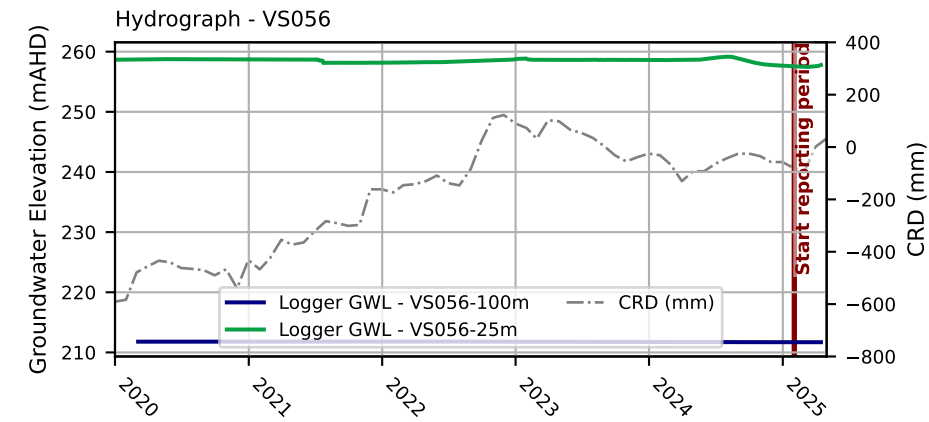
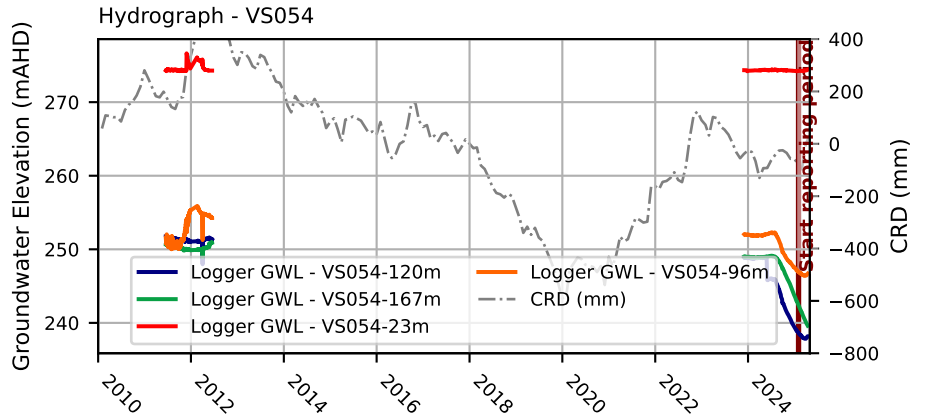
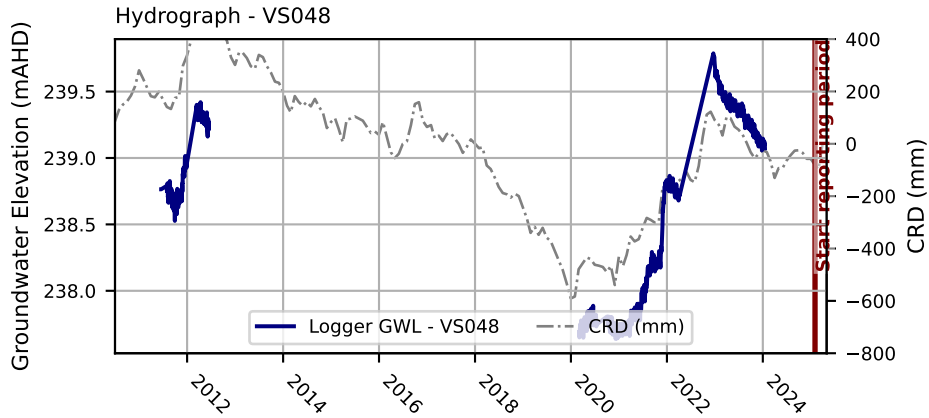
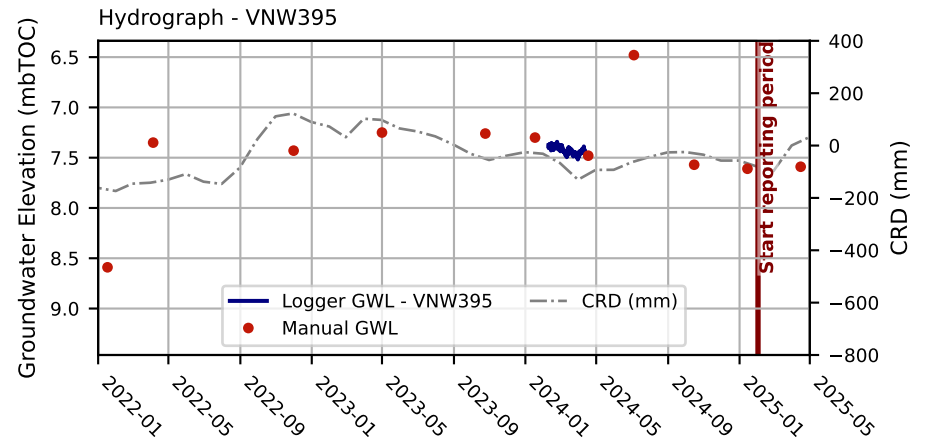
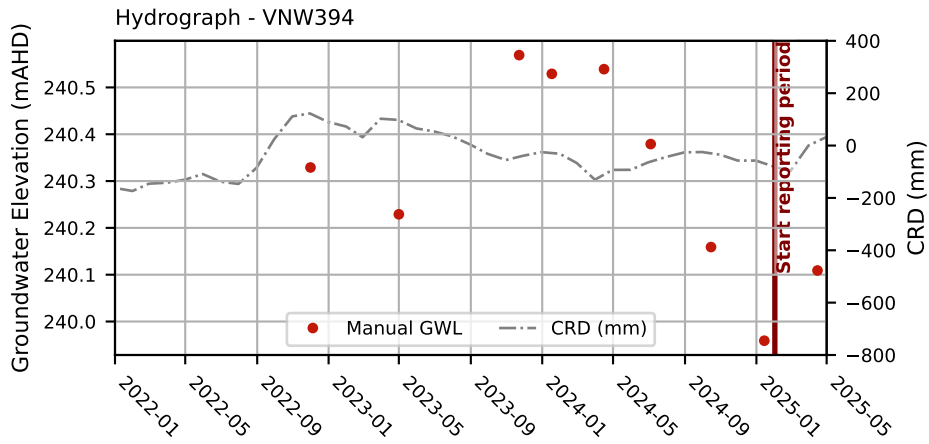


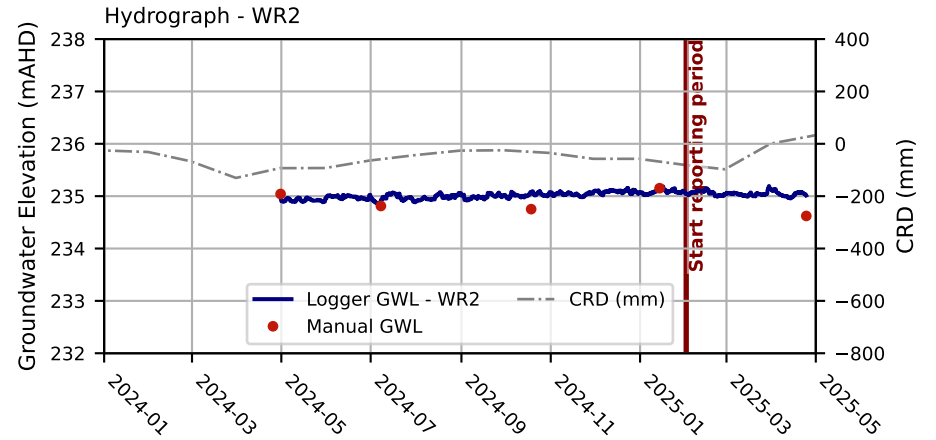
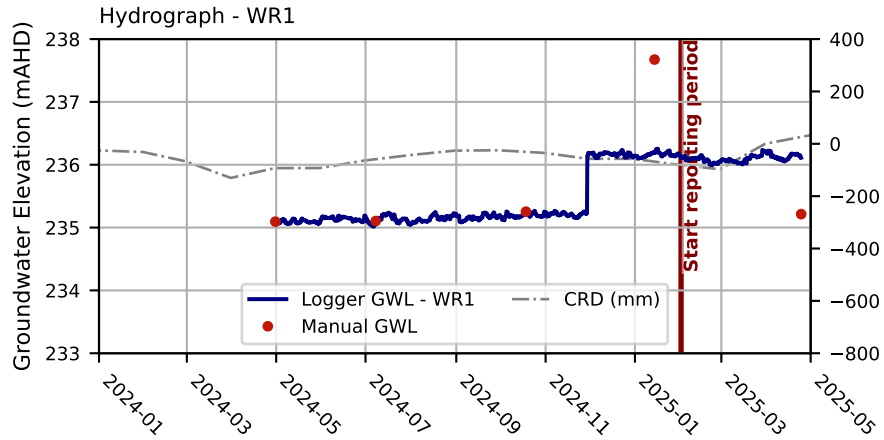
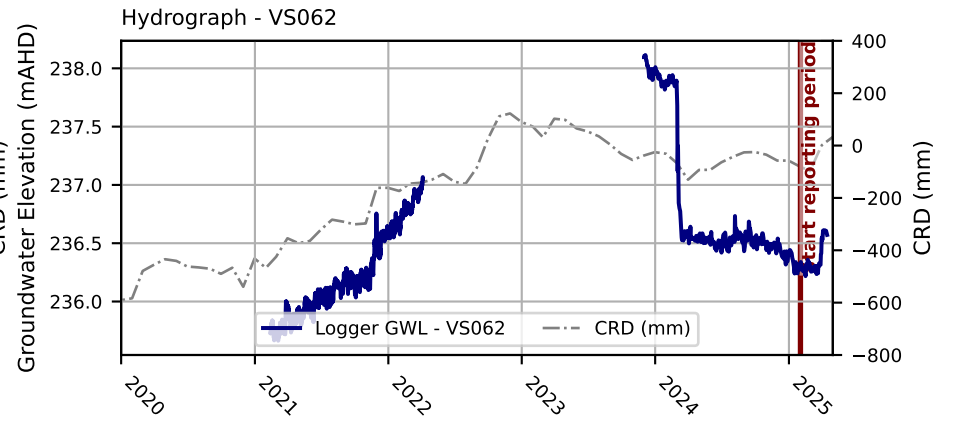
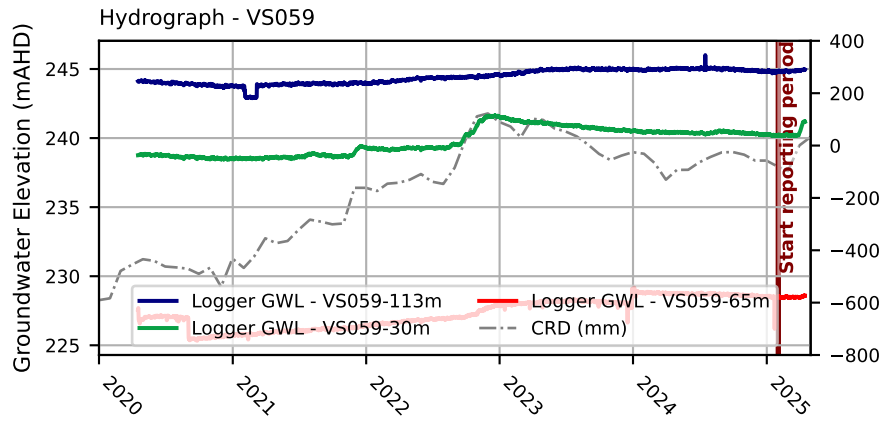












Whitehaven Vickery Extension Project Community

Consultative Committee

Date: Thursday 23 October 2025

Venue: Whitehaven Mine, and Online via Zoom

Invitees	
<p>Community Representatives</p> <p>Leon Mills (LM), Community Representative * first meeting</p> <p>George Avard (GA), Community Representative * first meeting</p> <p>Narrabri Shire Council No rep in attendance</p> <p>Gunnedah Shire Council</p> <p>Cr Ann Luke (AL), Councillor Gunnedah Shire Council (alternate representative)</p> <p>Wade Hudson (WH), Gunnedah Shire Council Manager Development Assessment</p>	<p>Whitehaven Coal</p> <p>Megan Martin (MM), Environmental Superintendent</p> <p>Matthew Sparkes (MS), Manager Operations Whitehaven Vickery</p> <p>Darren Swain (DS), General Manager Community Engagement Whitehaven</p> <p>Phil Wade, Senior Project Manager on Vickery Extension Project</p> <p>Independent Chairperson</p> <p>Professor Roberta Ryan (RR)</p> <p>Minute taker</p> <p>Zoey Mackey-Craig (ZMC)</p>
Apologies	
<p>Keith Blanch (KB), Community Representative</p> <p>Barry Thompson (BT), Community Representative</p> <p>Grant McIlveen (GM), Community Representative</p> <p>Cr Brett Dickinson (BD), Councillor Narrabri Shire Council (alternate representative)</p> <p>Cr Ethan Towns (ET), Councillor Narrabri Shire Council (delegate)</p> <p>Cr Cameron Moore (CM) Councillor Gunnedah Shire Council (delegate)</p> <p>Jabin de Keizer (JdK), Community Relations Manager Whitehaven</p>	

Item	Description
1	Welcome, agenda, apologies, declarations – RR
	<p>RR opened the meeting, welcoming members, including new members George Avard (GA) and Leon Mills (LM). Both GA and LM introduced themselves and confirmed they attended a site tour on 22/10/2025.</p> <p>MM introduced Phil Wade, Senior Project Manager on the Vickery Extension Project, who joined the meeting online from Brisbane to provide an update on the rail spur.</p> <p>Declarations were discussed and Roberta asked members to advise of any changes or new</p>

Whitehaven Vickery Extension Project Community

Consultative Committee

	<p>matters to be declared.</p> <p>George Avard noted he had previously held Whitehaven Shares.</p> <p>ZMC to provide declaration of interest form for updating.</p> <p>Review of previous minutes</p> <p>No comments from members received.</p>
2	<p>Actions arising <i>This section provides an opportunity to follow up on the actions agreed at the previous meeting/s, clarify outstanding issues, and offer any relevant updates or feedback. It ensures continuity between meetings and allows the group to track progress on previously discussed items.</i></p>
	<p>ACTIONS ARISING. FEBRUARY MEETING</p> <p><i>It was noted that there are outstanding actions from the February meeting. These actions have been recorded on the agenda and in the minutes to ensure answers are provided by the responsible persons to members of this committee.</i></p> <p>A): Questions for Narrabri Council. Responsible: BD, ET Update from July Meeting: Cr Townes advises he will escalate with the General Manager of Narrabri Council to provide responses to these questions. Due: ASAP</p> <p>(a) How much money has the Council received in the past 20 years through VPAs and one-off payments associated with the mining industry. BD says that all VPA agreements are published on the Council's website, so can be accessed there.</p> <p>BD is unaware at this stage as to where this us up to, but he has forwarded this on to council and will provide a response offline as soon as possible.</p> <p>(b) How much money has been invested back into Boggabri within this past 20-year period.</p> <p>BD has forwarded this to the council and will provide a response offline as soon as possible.</p> <p>(c) How much interest has been earned on the \$3.2 million contributed to the Council by the Vickery Coal mine.</p> <p>BD has forwarded this on to council and will provide a response offline as soon as possible.</p> <p>No representative from Narrabri was in attendance of the meeting held on the 23rd.</p>

Whitehaven Vickery Extension Project Community

Consultative Committee

Chair note – Narrabri Council provided detailed responses to the above questions out of session. Due the nature of the financial information, these details have been provided directly to members and will not be included in the minutes for public record.

This matter is now closed.

ARISING, JULY MEETING

A): Draft Terms of Reference (ToR) for this group, for review by members.

Responsible: RR, MM and ZMC

Due: 10 July 2025

Updated Committee Terms of Reference (ToR) were presented to members. ZMC advised this version of the ToR incorporated changes requested by members in the previous meeting:

- Update **Meeting venue and format** to include “or alternative location as required”
- Update “**Recording of meeting**” to indicate “Meeting recordings are only for the benefit of members/chairperson and cannot be published”

Members in attendance and MM confirmed they were broadly satisfied with the ToR, however given many members were not in attendance MM and the Chair agreed the ToR would be circulated once more before they were agreed.

Members were advised by MM that once the ToR are agreed and signed off by the Chair, they will be shared on the public Whitehaven Vickery website.

<https://whitehavencoal.com.au/our-business/our-assets/vickery-extension-project/>

MM advised that each member is required to have either a contact number or an email address publicly available, unless they request otherwise.

Update to Matter (A): Re circulate ToR to members, with request for approval to publish name and contact email on the Whitehaven Vickery website.

Responsible: ZMC

Due: ASAP

(Action C) Agenda item for following meeting, MOD1 Approval, including status update, summary of public submissions received, and advise caps on water extraction which may be placed on properties involved. MM to present on the 23rd October.

MOD1 update provided in Agenda Item 6.

This matter is now closed.

(Item 1) Provide committee members with the link to the [Departments Major Projects](#) website.

Provided to members via email on the 29th August 2025.

Whitehaven Vickery Extension Project Community

Consultative Committee

This matter is now closed.

(Item 2) Provide members with the link to the approved design plans which are available online, in particular the trainline.

MM advised this was first provided in August 2024, provided for members again here:

[Flood Study, including rail spur design](#)

This matter is now closed.

(Item 3) Confirm and report back on the consultation process followed for the rail spur detailed design and how feedback from Council and submitters is incorporated. Provide link for updated plans to CCC members.

Responsible: MM

A full presentation on the rail spur was provided by Phil Wade in Agenda Item 6, including a summary of the consultation undertaken during the approval process.

MM advised that additional consultation on the detailed design was not possible, as the rail spur formed part of the approved SSD-7480 and had already been subject to an Environmental Impact Statement (EIS), public exhibition, Independent Planning Commission (IPC) review, and further assessment by the Department of Planning and Housing Infrastructure (DPHI) prior to the detailed design being finalised.

This matter is now closed.

(Item 4) Create glossary of terms and include in all reporting to the Committee. Provide a copy of glossary to CCC members for reference.

Responsible: MM

MM advised members a digital version of the glossary would be provided as an appendix to each quarterly report for the CCC. Physical laminated copies would be provided for in person attendees. It was agreed by all members, the Chair and MM that these glossaries would be updated with terminology as required.

This matter is now closed.

(Item 5) Determine unique identifier for "Braymont" road, specifically the section that has experienced recent overuse leading to damage. Provide unique identifier to Cr. Towns, to enable Council maintenance on damaged road.

Responsible: MM

Chair note – GM was an apology for the meeting however had asked for this message to be shared:

"Also, at the meeting can you please thank Narrabri Shire for grading the roads, Whitehaven for putting the signs up that has dramatically cut the road usage on Braymont Road and keep onto Narrabri about the money owing to Boggabri, otherwise a letter to go to the Planning dept about that money please

Whitehaven Vickery Extension Project Community

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	<p><i>Thanks Grant”</i></p> <p>This matter remains open. ZMC to progress out of session.</p> <p>(Item 6) Arrange traffic audit before the end of 2025. Responsible: MM</p> <p>MM advised audit is scheduled and the use of Braymont Road will be included within the audit process. Outcomes to be shared with members by MM in the CCC Meeting 29.01.2026.</p> <p>This matter is now closed.</p> <p>(Item 7) Provide update on Narrabri Aged Care Development to CCC members.</p> <p>No one from Narrabri Shire Council was in attendance of the meeting.</p> <p>This matter remains open. ZMC to progress out of session.</p>
3	<p>Environmental Report</p> <p>Megan Martin (MM) provided members with a detailed report on monitoring for the quarter:</p> <p>Refer to report attached.</p> <p>Noise Monitoring Noise is checked every month and reviewed each quarter. There have been no exceedances (no breaches of allowed noise levels). Monitoring continues for compliance and transparency, even though no issues have been found.</p> <p>Attended monitoring sites (shown in report as red arrows): An acoustic engineer visits the site and records noise for about 30 minutes. They record the 15-minute average and the maximum noise (LAm_{ax}). Special software filters out background sounds so only the mine’s contribution is measured.</p> <p>Results often show noise as “IA” (inaudible) or between 20–30 decibels, depending on weather and conditions.</p> <ul style="list-style-type: none">• Attended noise monitoring was conducted at “Lanreef” (N-AT2) and “Broadwater” (N-AT1) properties once a month during this reporting period.• N-AT3 will not be monitored until rail spur construction begins (located at Vivale).• Results from N-AT2 and 1 did not exceed criteria at any private receivers. <p>Air Monitoring</p> <p>No air quality exceedances have been recorded — all monitoring results remain fully compliant.</p> <ul style="list-style-type: none">• The mining area is outlined by red boxes in the report; the rail spur and two

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weather stations (Met 1 and Met 2) allow weather tracking at both ends of the operation.

- Weather data helps interpret air quality changes, as rainfall and wind can vary significantly across the site.

TEOM Monitors (Tapered Element Oscillating Microbalance):

- Four TEOM units measure dust particles:
 - PM10: dust smaller than 10 microns (visible dust).
 - PM2.5: very fine particles (from combustion, fires, or diesel) that affect health.

High-Volume Air Samplers (HVAS):

- HVAS operate one day every six days, collecting air through a filter that's then weighed in a lab.
- Results can be influenced by farming or regional dust, not necessarily mining.

Depositional Dust Gauges:

- Simple "bottle and funnel" units that collect dust over time; samples are weighed to determine dust deposition rates.
- Though low-tech, they still provide useful data for monitoring along with the other mechanisms.

Water Monitoring

Bores

50 bores are monitored across the site. This is a three week process every quarter. Samples are sent to a NATA accredited lab for testing. Groundwater monitoring results indicate stable Ground Water (GW) levels. GW quality is variable; each bore will need 2 years of data to inform detailed trigger levels for each bore. At this stage, generic levels are used where data is not sufficient yet to inform exact triggers.

Cr Ann Luke enquired which of the new bores are not yet drilled, and if they are all approved. MM advised the number of bores are part of the approved plan, however, new bores are not yet drilled, and locations are still to be determined.

MM confirmed that the site has approval under the Planning Act for the bores, however they do not yet have approval under the Water Management Act. Further testing will also be needed to determine extraction limits for each.

Surface water

Dam levels are surveyed weekly. Upstream and downstream monitoring is undertaken to ensure stability. SD-A (Surface Dam-A) has a level monitor in it for live level monitoring.

Rainfall

Stable rainfall since March. August was wetter than usual.

Blast Monitoring

Blast notifications are listed on the Vickery Website and the day before a blast an SMS is sent out to all those on registered on the notification list. Emails sent to neighbours the day before if a road closure is required. Gunnedah and Narrabri Shire Councils are also notified.

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	<p>Specialist traffic controllers are engaged to implement closures and manage safety as required.</p> <ul style="list-style-type: none">• 87 blasts conducted since January 2024• 13 blasts in the most recent quarter• All blasts this quarter were within Project Approval conditions and Environmental Protection Licence (EPL) criteria. <p>Management plans</p> <p>Several plans were triggered to be reviewed following the approval of MOD1.</p> <ul style="list-style-type: none">• Waste Management Plan• Aboriginal Cultural Heritage Management Plan• Environmental Management System• Water Management Plan• Traffic Management Plan <p>Approved:</p> <ul style="list-style-type: none">• Blast Management Plan <p>In progress:</p> <ul style="list-style-type: none">• Biodiversity Management Plan
4	<p>Project Update/Approvals Update</p> <p>MS provided members with an update on operations for Q1 FY25-26</p> <ul style="list-style-type: none">• 5.1Mbcm overburden moved in Q4 of FY24-25• Target for this year is 22.4 Mbcm• 621kt ROM coal mined in Q1• 190 people in workforce in Q1 FY26 <p>Safety and Compliance Performance</p> <ul style="list-style-type: none">• No recordable injuries for over 12 months.• Lead indicators (in place to reduce chances for injury or health impacts) are tracking well.
5	<p>Community Updates, Complaints</p> <p>Darren Swain provided an update</p> <ul style="list-style-type: none">• Three complaints were received in Q1, all relating to the same blast event.• All complaints were lodged through regulators and were anonymous, making follow-up or adding individuals to the notification list difficult.• The blast in question was within approved limits, though it was acknowledged that impacts can be felt differently depending on individual location and perception.• DS agreed it would be helpful to understand who is making the complaints so that direct discussion and clarification can occur where possible <p>Community Investment</p> <ul style="list-style-type: none">• The Community Investment Program has transitioned to a six-monthly review cycle.• Applications can be submitted at any time and will be assessed during the

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	<p>scheduled review periods, with some out-of-session support considered where appropriate.</p> <ul style="list-style-type: none">• The next funding round is scheduled for early November <p>Regional partnerships</p> <ul style="list-style-type: none">• \$47,150 provided in community partnerships and donations for Q1 FY25-26
6	<p>Next Steps in the Project – Report on MOD1</p> <p>MM acknowledged the details of MOD1, which was approved 7th August 2025, were presented to members at the previous meeting and there were some questions from members around the key items raised in submissions.</p> <p>By way of key points, MM shared that the landform was updated to be what is known as “geomorphic”, a more natural looking landform. Additionally, an alternative shorter route to realign roads and water pipelines, which had previously triggered requests from members for more detail around the pipelines [provided in the last meeting].</p> <p>MM advised that the key items raised in submissions regarding MOD1 were:</p> <ul style="list-style-type: none">• Potential impacts to groundwater, focused on water security for agricultural use• Potential impacts to surface water• Waste tyre disposal <p>In response to the waste tyre disposal MM confirmed strict controls apply under the site’s EPL (Environment Protection Licence):</p> <ul style="list-style-type: none">• Tyres are not placed on pit floors or near rejects or potentially acid-forming material (minimum 15 m separation).• Tyres are stored in dedicated areas, no more than 3 m high, and away from combustible materials.• Once disposal campaigns are organised, tyres are buried within waste dumps in locations surveyed and documented to ensure stability and isolation.• Tyres are positioned well above predicted final water levels and outside areas likely to interact with groundwater or surface water. <p>MM noted the company has explored recycling options extensively — contacting multiple recyclers nationally — but found it currently cost-prohibitive (approx. \$2,000 per tyre to transport to the only viable facility). She noted the EPA is continuing broader industry and manufacturer engagement to improve recyclability and circular-economy outcomes in future.</p> <p>In response to submissions about groundwater and surface water, MM confirmed:</p> <ul style="list-style-type: none">• Water extraction to remain within existing licensed bore limits under approvals regulated by Water NSW and DCCEEW.• No increase in approved extraction volumes; any future amendments would trigger reassessment.• Pipeline and road-crossing designs to comply with relevant erosion and sediment-control guidelines (“Blue Book” standards).• Final landform and in-pit emplacement design ensures tyres and materials are located above equilibrium groundwater levels and outside flood-affected zones. <p>Leon Mills (LM) asked about the depth and management of buried tyres, noting local</p>

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farmers may ask whether similar burial is permitted on private land.

MM advised that tyres are placed under strict engineering and regulatory controls — surveyed and isolated within waste-dump cells, not on pit floors, and kept clear of groundwater and rejects. Burial locations are documented, and tyres are encased in clean inert material to prevent any leaching or movement. Heavy-equipment tyres are extremely dense and buried under rockfill, so buoyancy or “floating” issues do not occur.

In summary, the mine’s process is heavily regulated and not comparable to private on-farm disposal, which would not be permitted under council or EPA rules.

Phil Wade provided an update on the Rail Spur

Refer to presentation attached.

- Project Scope & Design
 - Rail spur length: 18.4 km, including 13.8 km single track and 4.6 km balloon loop.
 - Mining lease granted (Oct 2025) over the full rail spur alignment.
 - Infrastructure includes culverts, viaducts, and embankments.
 - Design assessed against the 1% Annual Exceedance Probability flood event, consistent with the *Upper Namoi Valley Flood Plan 2019*.
 - Full peer review undertaken by Department of Planning, Housing and Infrastructure (DPHI).
- Engineering & Crossings
 - Key crossings: Kamilaroi Highway, Namoi River, and Stratford Creek.
 - Design incorporates culvert transitions and viaduct structures at major crossings.
 - Inclusion of Rail Maintenance Access Road (RMAR) and main-line turnout.
- Flood Assessment & Approvals
 - Detailed design flood study approved July 2024 by the Planning Secretary.
 - Assessment met Conditions B48 and B49 of project approval:
 - Consistency with *Upper Namoi Valley Floodplain Management Plan 2019*.
 - Design to minimise flooding and scour impacts and elevate structures above the 1% AEP flood level west of the Namoi River.
 - Study completed in consultation with DCCEEW and Biodiversity Conservation Science (BCS) and peer-reviewed by DPHI.
 - Final design presentations delivered to Gunnedah and Narrabri Councils (Jan 2023).
- Regulatory & Consultation Process
 - Consultation with DCCEEW and BCS concluded.
 - Detailed design documents, including engineering drawings, are published on the Whitehaven Coal website.
- MOD1 Progress Update
 - State determination completed (7 August 2025).
 - Certain project components to undergo EPBC (Environment Protection and Biodiversity Conservation) assessment, specifically:
 - Blue Vale Road Diversion

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	<ul style="list-style-type: none">▪ Ovenden Pipeline▪ Rocglen Pipeline○ EPBC determination expected June 2026. <p>Next steps for “Big” Vickery</p> <p>Phil Wade provided an update on what is generally known as “Big Vickery”– referring to the main site.</p> <p>Engineering is complete, and Whitehaven is looking at options to fund the project. In response to RR, Phil Wade confirmed that this funding is being sought through the board, however there is no sense on timing at this stage.</p>
7	Any other business and next meeting
	<p>The next meeting will be held Thursday 29 Jan 2026 12-2pm Gunnedah Town Office and online via Zoom</p> <p>2026 Meetings:</p> <ul style="list-style-type: none">• Thursday 29 January• Thursday 30 April *Site Visit* - time and details will be provided in January• Thursday 3 July• Thursday 22 October

Vickery Coal Mine Community Consultative Committee Meeting #24

Quarterly Environmental Monitoring Report
July, 2025 – September, 2025

Vickery Project



This report has been prepared for the Community Consultative Committee (CCC) meeting to show environmental monitoring performance at Vickery Coal Mine (VCM) for the reporting period from July 2025 to September 2025.

Noise Monitoring

Attended noise was conducted during this period.

Attended noise monitoring was conducted at “Lanreef” (N-AT2) and “Broadwater” (N-AT1) properties once a month during this reporting period. Noise criteria for the mine is 40dB(A) Leq (15 min) during day time and 35dB(A) Leq (15 min) during evening/night time and 52 LA_{max} for instantaneous night readings. Please refer to EPL Monitoring locations map in Appendix B for the location of these monitoring points. Results below show that noise emissions from the mine did not exceed operational criteria at “Lanreef” or “Broadwater” monitoring locations during the monitoring period.

Table 1 July 2025 Attended Noise Monitoring

Table 4 VCM Operational Noise Monitoring Results Leq(15min) – 28 July 2025 (Day)								
Location	Time	dB(A), Leq	VCM Contribution dB(A),Leq	Criterion dB(A),Leq	Wind speed (m/s),dir	Stability Class	Identified Noise Sources dB(A),Leq	Exceedance (Yes/No)
N-AT1 / 7	4:57 pm	43	<20	45*	3.2 / 267	D	Birds (42), wind (32), VCM (IA)	No
N-AT2 / 8	3:19 pm	47	<20	45*	7.2 / 288	D	Traffic (47), birds (36), VCM (IA)	No
Table 5 VCM Operational Noise Monitoring Results Leq(15min) – 28 July 2025 (Evening)								
Location	Time	dB(A), Leq	VCM Contribution dB(A),Leq	Criterion dB(A),Leq	Wind speed (m/s),dir	Stability Class	Identified Noise Sources dB(A),Leq	Exceedance (Yes/No)
N-AT1 / 7	9:33 pm	42	<20	35	1.9 / 325	F	Birds (42), traffic (31), VCM (IA)	No
N-AT2 / 8	9:42 pm	35	<20	37	2.6 / 345	E	Traffic (35), VCM (IA)	No
Table 6 VCM Operational Noise Monitoring Results Leq(15min) – 28 July 2025 (Night)								
Location	Time	dB(A), Leq	VCM Contribution dB(A),Leq	Criterion dB(A),Leq	Wind speed (m/s),dir	Stability Class	Identified Noise Sources dB(A),Leq	Exceedance (Yes/No)
N-AT1 / 7	10:00 pm	43	<20	35	3.0 / 359	E	Birds (43), Traffic (29), VCM (IA)	No
N-AT2 / 8	10:01 pm	35	<20	37	3.0 / 359	E	Traffic (35), VCM (IA)	No
Table 7 VCM Operational Noise Monitoring Results LA _{max} – 28 July 2025								
Location	Time	dB(A), LA _{max}	VCM Contribution dB(A), LA _{max}	Criterion dB(A), LA _{max}	Wind speed (m/s),dir	Stability Class	LA _{max} Noise Source	Exceedance (Yes/No)
N-AT1 / 7	10:00 pm	62	<20	52	3.0 / 359	E	Birds	No
N-AT2 / 8	10:01 pm	54	<20	52	3.0 / 359	E	Highway	No

Table 2 August 2025 Attended Noise Monitoring

Table 4 VCM Operational Noise Monitoring Results Leq(15min) – 13 August 2025 (Day)								
Location	Time	dB(A), Leq	VCM Contribution dB(A),Leq	Criterion dB(A),Leq	Wind speed (m/s),dir	Stability Class	Identified Noise Sources dB(A),Leq	Exceedance (Yes/No)
N-AT1 / 7	5:33 pm	48	<20	40	1.4 / 264	D	Birds (48), traffic (28), VCM (IA)	No
N-AT2 / 8	4:36 pm	51	<20	40	2.1 / 267	D	Traffic (51), frogs (34), VCM (IA)	No

Table 5 VCM Operational Noise Monitoring Results Leq(15min) – 13 August 2025 (Evening)								
Location	Time	dB(A), Leq	VCM Contribution dB(A),Leq	Criterion dB(A),Leq	Wind speed (m/s),dir	Stability Class	Identified Noise Sources dB(A),Leq	Exceedance (Yes/No)
N-AT1 / 7	8:40 pm	42	<20	35	0.6 / 189	F	Cattle (40), traffic (35), VCM (IA)	No
N-AT2 / 8	9:40 pm	39	<20	37	1.4 / 306	E	Traffic (39), VCM (IA)	No

Table 6 VCM Operational Noise Monitoring Results Leq(15min) – 13 August 2025 (Night)								
Location	Time	dB(A), Leq	VCM Contribution dB(A),Leq	Criterion dB(A),Leq	Wind speed (m/s),dir	Stability Class	Identified Noise Sources dB(A),Leq	Exceedance (Yes/No)
N-AT1 / 7	10:57 pm	37	<20	35	0.5 / 39	F	Birds (37), VCM (24)	No
N-AT2 / 8	10:02 pm	42	<20	37	0.8 / 304	F	Traffic (42), VCM (IA)	No

Table 7 VCM Operational Noise Monitoring Results LA _{max} – 13 August 2025								
Location	Time	dB(A), LA _{max}	VCM Contribution dB(A), LA _{max}	Criterion dB(A), LA _{max}	Wind speed (m/s),dir	Stability Class	LA _{max} Noise Source	Exceedance (Yes/No)
N-AT1 / 7	10:57 pm	59	<30	52	0.5 / 39	F	Birds	No
N-AT2 / 8	10:02 pm	55	<20	52	0.8 / 304	F	Birds	No

Table 3 September 2025 Attended Noise Monitoring

Table 4 VCM Operational Noise Monitoring Results Leq(15min) – 16 September 2025 (Day)								
Location	Time	dB(A), Leq	VCM Contribution dB(A),Leq	Criterion dB(A),Leq	Wind speed (m/s),dir	Stability Class	Identified Noise Sources dB(A),Leq	Exceedance (Yes/No)
N-AT1 / 7	12:08 pm	48	<20	45*	5.5 / 322	D	Wind (48), VCM (IA)	No
N-AT2 / 8	11:16 am	45	<20	45*	5.5 / 344	D	Traffic (42), wind (42), VCM (IA)	No
Table 5 VCM Operational Noise Monitoring Results Leq(15min) – 16 September 2025 (Evening)								
Location	Time	dB(A), Leq	VCM Contribution dB(A),Leq	Criterion dB(A),Leq	Wind speed (m/s),dir	Stability Class	Identified Noise Sources dB(A),Leq	Exceedance (Yes/No)
N-AT1 / 7	8:44 pm	35	<20	40*	3.9 / 27	E	Wind (33), insects (30), VCM (IA)	No
N-AT2 / 8	9:43 pm	45	<20	42*	4.1 / 21	E	Frogs (44), traffic (35), VCM (IA)	No
Table 6 VCM Operational Noise Monitoring Results Leq(15min) - 16 September 2025 (Night)								
Location	Time	dB(A), Leq	VCM Contribution dB(A),Leq	Criterion dB(A),Leq	Wind speed (m/s),dir	Stability Class	Identified Noise Sources dB(A),Leq	Exceedance (Yes/No)
N-AT1 / 7	10:58 pm	46	<20	35	2.9 / 18	E	Frogs (46), Traffic (32), VCM (IA)	No
N-AT2 / 8	10:01 pm	42	<20	42*	4.2./21	E	Frogs (41), traffic (33), VCM (IA)	No
Table 7 VCM Operational Noise Monitoring Results LA _{max} – 16 September 2025								
Location	Time	dB(A), LA _{max}	VCM Contribution dB(A), LA _{max}	Criterion dB(A), LA _{max}	Wind speed (m/s),dir	Stability Class	LA _{max} Noise Source	Exceedance (Yes/No)
N-AT1 / 7	10:58 pm	49	<20	52	2.9 / 18	E	Frogs	No
N-AT2 / 8	10:01 pm	53	<20	52	4.2./21	E	Birds	No

The real time noise monitor located on the “Long Way Round” property remains a management tool, so the noise criteria are not applicable at that site. Levels of noise recorded at that location are managed according to the noise management plan and trigger action response plan.

An additional real time noise monitor has been installed closer to the mine site, at Broadwater property.

Blast Monitoring

Blasting Results

There has been 13 Blasts at VCM from 1st July to 30th September 2025.

The highest recorded overpressure for the reporting period was 110.7dBL recorded at B-01 monitor on the 29/08/2025.

The highest recorded ground vibration for the reporting period was 5.64mm/s recorded at B-02 monitor on the 11/09/2025.

VCM overpressure and ground vibration for the quarter was compliant and did not exceed the blasting criteria declared in the project approval and Blast Management Plan (BMP). Please refer to EPL Monitoring locations map in Appendix B for the location of these monitoring points.

Table 4 Max Peak Overpressure and Ground Pressure for the Quarter

Monitor Location	Date	Max. Peak Overpressure (dB)	Criterion (dB)	Date	Max. Peak Ground Pressure (mm/s)	Criterion (mm/s)
B-01	29/08/2025	110.7	133	29/08/2025	2.0	10
B-02	14/08/2025	109.9	N/A	11/09/2025	5.64	80
B-03	08/08/2025	109.9	120	11/09/2025	0.81	10

Air Quality Monitoring

Dust Deposition Results

Standard Australia AS/NZS 3580.10.1:2016, "Methods for sampling and analysis of ambient air – Determination of particulate matter – Deposited matter – Gravimetric Method," classifies deposited dust as insoluble solids. Therefore, VCM tests air quality monthly at mine-owned sites for indicative purposes, to infer compliance, against the limit of 4 g/m²/month.

Table 5 shows deposited dust gauge results over 12 months. All dust monitors that are located on project related or WHC owned land; as such compliance criteria (4g/m²/month) do not apply. While deposited dust trends remain steady during the reporting period (refer graph in *Appendix A*), some monitors are displaying non-mine related particulate matter deposition more regularly than others. Non-mine related particulate matter could be attributed to organic matter (such as leaves, mice, frogs, insects or bird faeces that fall in to the bottles), or they may be in farming locations, so during some months dust levels may be higher due to harvesting. Please refer to Dust Deposition Gauges Monitoring locations map in Appendix B for the location of these monitoring points.

Table 5 Deposited Gauge Results [g/m²/month]

Month	D1	D2	D12	D13B	DG1	DG2	V1	V2	V3	V4	V5
Oct-24	0.4	0.1	0.2	1	0.7	0.4	0.4	0.6	0.5	1.8	0.5
Nov-24	1.3	0.7	0.9	1	1.6	2.1	0.7	0.2	3.9	1.1	1.3
Dec-24	0.4	0.8	1.8	2	2.5	0.5	2.2	0.7	8.7	1.3	4.0
Jan-25	0.3	2.2	0.8	2.2	1.8	0.9	1.4	0.9	5	1	5
Feb-25	1.2	1.8	1.9	2.0	1.5	1.7	2.1	1.6	1.4	2.3	2.7
Mar-25	0.2	0.1	0.1	0.3	0.2	0.2	0.1	0.1	0.1	3	2.3
Apr-25	0.4	1.3	1.2	4.3	0.3	0.7	0.5	0.3	1.3	0.6	1.2
May-25	0.6	2.2	2.1	1.2	4.2	0.8	1.3	0.5	1.9	1.1	1.6
Jun-25	0.6	3.8	1.3	1.4	3.0	1.5	0.4	0.6	1.1	0.6	2.3
Jul-25	0.6	0.5	0.9	2.5	1.1	1.7	0.8	0.5	1.3	0.6	1.2
Aug-25	0.4	0.7	0.8	2.2	2.4	0.8	0.7	0.5	3.2	0.6	0.9
Sep-25	0.1	0.5	2.7	3.7	2.3	1.2	0.9	0.5	0.3	1.2	2.2
Average	0.5	1.2	1.2	2.0	1.8	1.0	1.0	0.6	2.4	1.3	2.1

Real-time Air Monitoring (PM_{2.5} and PM₁₀)

Two real-time air quality monitoring units are located on private property adjacent to the Vickery Coal Mine. PM1 is located at Lanreef and PM2 at Mirrabinda to the south and south-west of the operations. These are used as both a compliance and an operational management tool. Dust levels nearing or reaching the nominated criteria will trigger actions onsite to assess the source of dust and modify operations if it is determined to be related to Vickery operations. Additional air quality monitoring units are located at Wil-gai and Roseberry and these are used for additional information and operational management in accordance with the Vickery Air Quality Management Plan. These units are also associated with other regional operations at Tarrawonga and Rocglen. Please refer to Air Quality Monitoring locations map in Appendix B for the location of these monitoring points.



Figure 1: TEOM installed at Lanreef

Water Monitoring

Groundwater

Routine groundwater monitoring has been conducted 6 monthly since 2021 and quarterly since 2023. In October 2023, Hydra-sleeve monitoring was introduced to Vickery's groundwater bores. Appendix C contains the Hydrographs for Vickery's GW bores. Monitoring indicates stable GW levels. Water quality data in a few bores is showing a departure from the interim trigger levels. This will assist to inform the development of the final trigger levels for GW monitoring as described in the Water MP. As mining below the water table has only just begun to occur any triggers of the interim TARP are due to the background levels naturally being different to the generic triggers sourced from external benchmarks. Please refer to Groundwater Monitoring locations map in Appendix B for the location of these monitoring points.

Surface Water

Water storage onsite is expected to be sufficient for at least 12 months. VCM has not undertaken any discharges during the period. Please refer to EPL Monitoring locations map in Appendix B for the location of these monitoring points.

Table 6 Surface Water Results for July, August and September

July	Namoi DS 1	Namoi DS 2	Namoi DS 3	Namoi US
pH	8.31	8.38	8.53	8.49
Electrical Conductivity (µS/cm)	538	533	541	531
TSS	24	25	36	30
Oil & Grease (mg/L)	<5	6	<5	<5
August	Namoi DS 1	Namoi DS 2	Namoi DS 3	Namoi US
pH	8.38	8.31	7.79	8.02
Electrical Conductivity (µS/cm)	366	348	355	355
TSS	66	74	66	82
Oil & Grease (mg/L)	<5	<5	<5	<5
September	Namoi DS 1	Namoi DS 2	Namoi DS 3	Namoi US
pH	8.37	8.36	8.35	8.36
Electrical Conductivity (µS/cm)	440	435	443	428
TSS	21	17	31	20
Oil & Grease (mg/L)	<5	<5	<5	<5

September	MWD2
pH	8.62
Electrical Conductivity (µS/cm)	2260
TSS	<5
Oil & Grease (mg/L)	<5

VCM has recorded **530.4mm** of rain for 2025 at our MET 2 weather station.

Table 7 Annual Rainfall

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Monthly Rain (mm)	18.8	22	217.6	44.6	60.2	15.4	43.6	82.6	25.6				530.4
Cumulative (mm)	18.8	40.8	258.4	303	363.2	378.6	422.2	504.8	530.4				

Clearing

Clearing is currently ongoing at Vickery, approximately 620ha have been cleared since Vickery began in 2023. Topsoil and Subsoil is being stored separately in designated stockpiles areas. The stockpiles will be ripped and seeded to maintain viability for rehabilitation.



Figure 2: Image of recent clearing and soil stockpiles

Complaints

Three Complaints were received during the reporting period:

1. 08/08/2025 - Anonymous complainant South West of VCM voiced concern about a blast fired in unfavourable conditions. Matter closed with DPHI.
2. 08/08/2025 - Anonymous complainant South West of VCM voiced concern about a blast that shook their house and was fired in overcast conditions. Environmental Superintendent provided blast details to DPHI and followed up via email.
3. 11/08/2025 - Anonymous complainant South West of VCM voiced concern about a blast fired on 8th August. Environmental Superintendent responded to EPA via email.

Approvals

The last Environmental Protection Licence (EPL) Variation was received on the 2nd September 2025.

This variation is in response to MOD 1 of SSD-7480. The key variations to the EPL were:

- Gravel extraction
- Waste tyre disposal
- Road Haulage times
- Waste tyre storage

The project approval for Vickery (SSD-7480) was modified in August 2025. The key variations in MOD 1 were:

- Gravel extraction
- Waste tyre disposal
- Road Haulage times
- Biodiversity Offset requirements

The project approval for Vickery (SSD-7480) was modified in October 2025. The key variations in MOD 2 were:

- Increased road coal haulage volumes for a temporary period to utilise capacity at CHPP.

Environmental Management Plans

Approvals

All the currently approved Management Plans are available on the WHC website.

The revised Blast Management plan has been approved by DPHI in September 2025.

The Air Quality and Greenhouse Gas Management Plan has been approved by DPHI on the 21st July 2025.

Biodiversity Management Plan has been submitted to DPHI for review and will be finalised following approval.

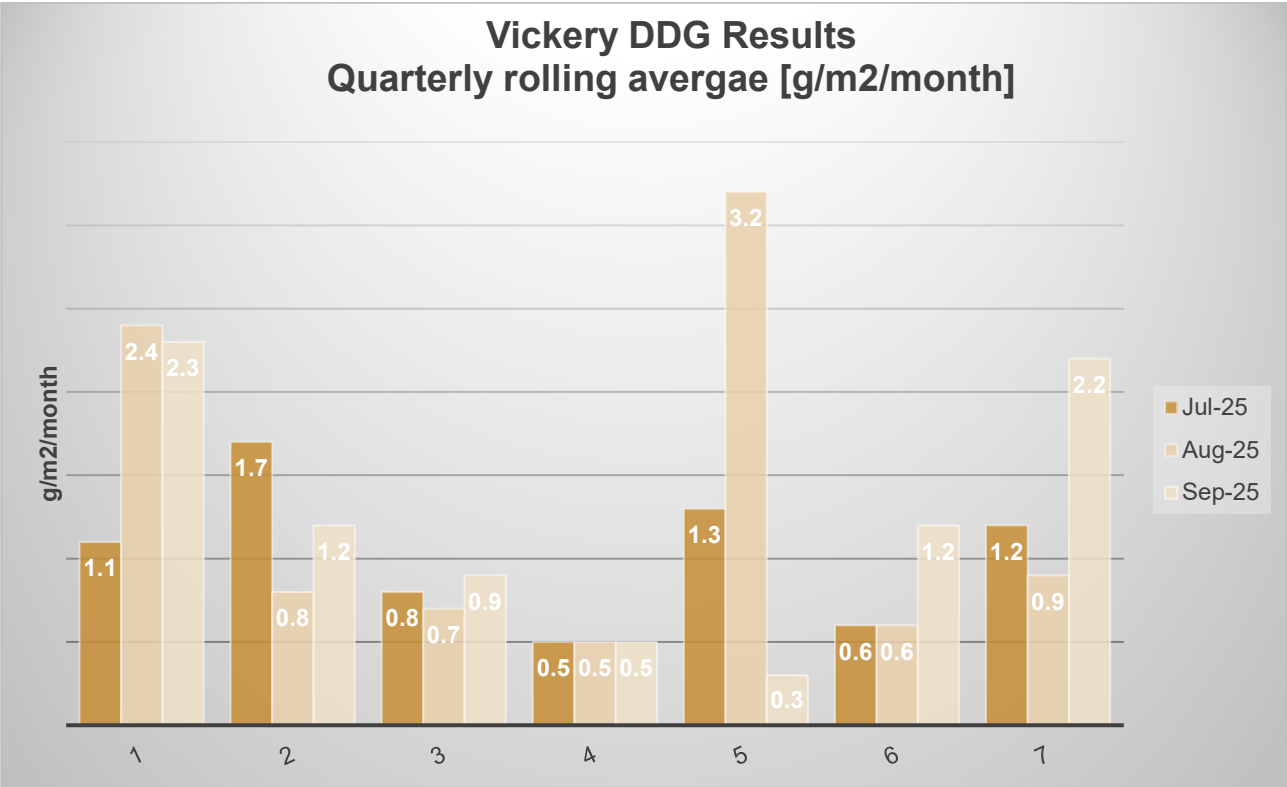
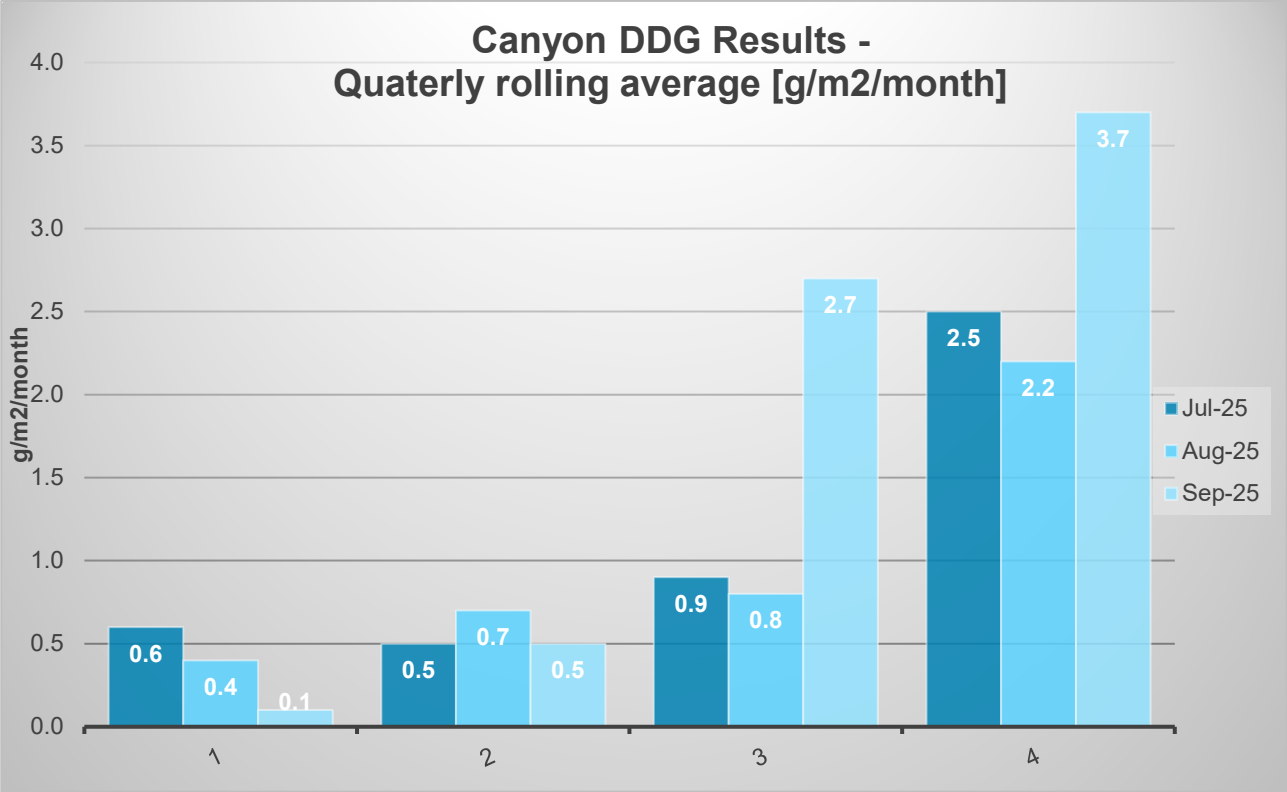
The Waste MP has been revised to include tyre disposal as approved in MOD1 and submitted to DPHI for review.

The Aboriginal Cultural Heritage, Water and Traffic Management Plans will be reviewed and submitted before the next CCC.

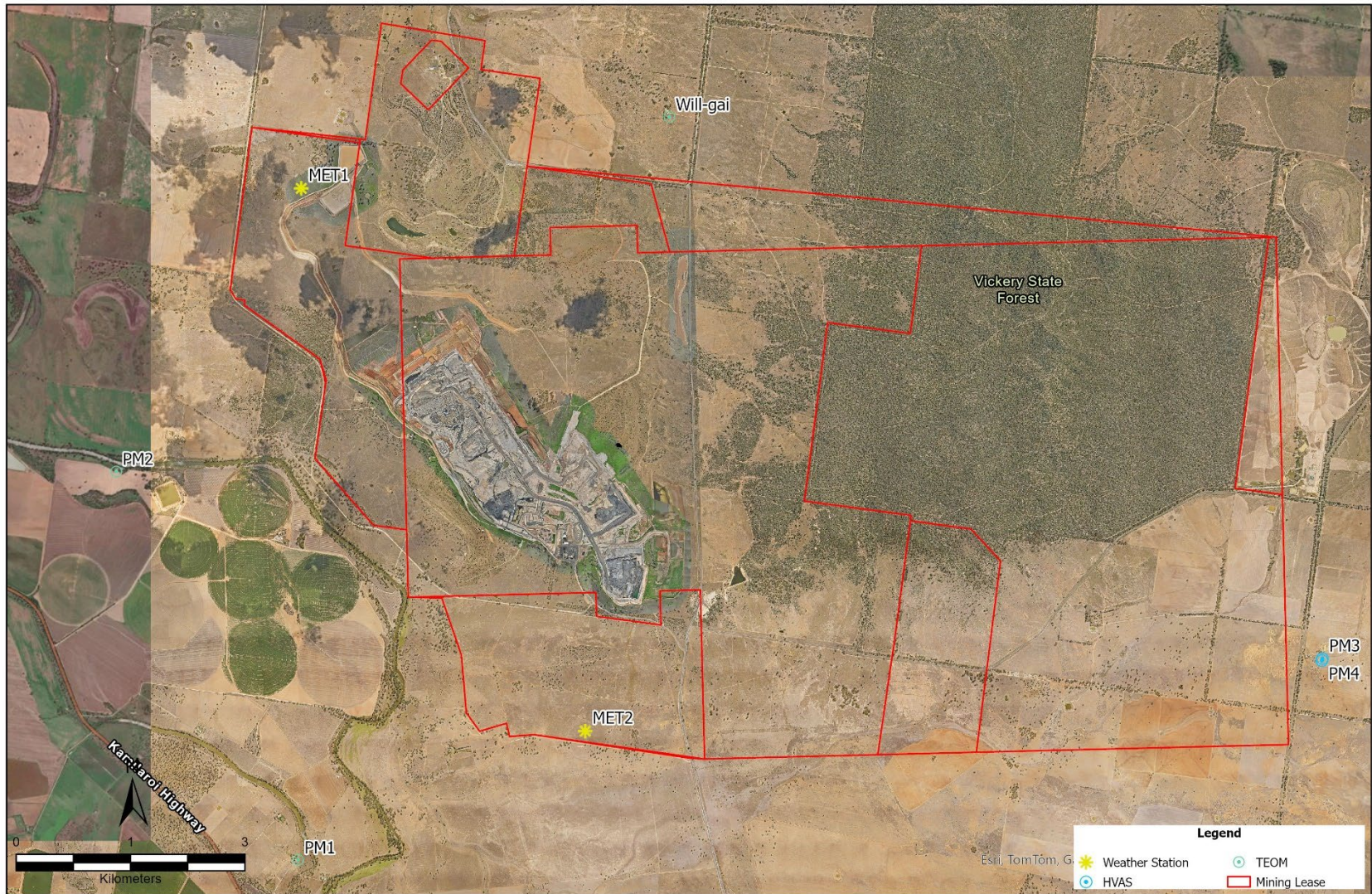
MOD1 was submitted in August 2024 and was approved on the 7th August 2025. As described in April 2024 at the CCC meeting this Modification includes:

- An option to amend the Blue Vale Road realignment to a lesser impact;
- to allow the export of gravel from the VEP in line with existing approvals at Tarrawonga and the original Vickery Coal Project (SSD-5000);
- Construction and use of water pipelines from additional existing groundwater bores and to the Rocglen Coal Mine;
- Potential relinquishment of the secondary infrastructure area;
- A temporary access road and additional soil stockpile area;
- Temporary concrete batching plant;
- Disposal of waste heavy vehicle tyres;
- Reduction to the open cut extent and improved waste rock emplacement and landform design;
- Extended ROM coal road haulage hours to align with the Tarrawonga Modification 10; and
- Schedule of Lands update.

Appendix A

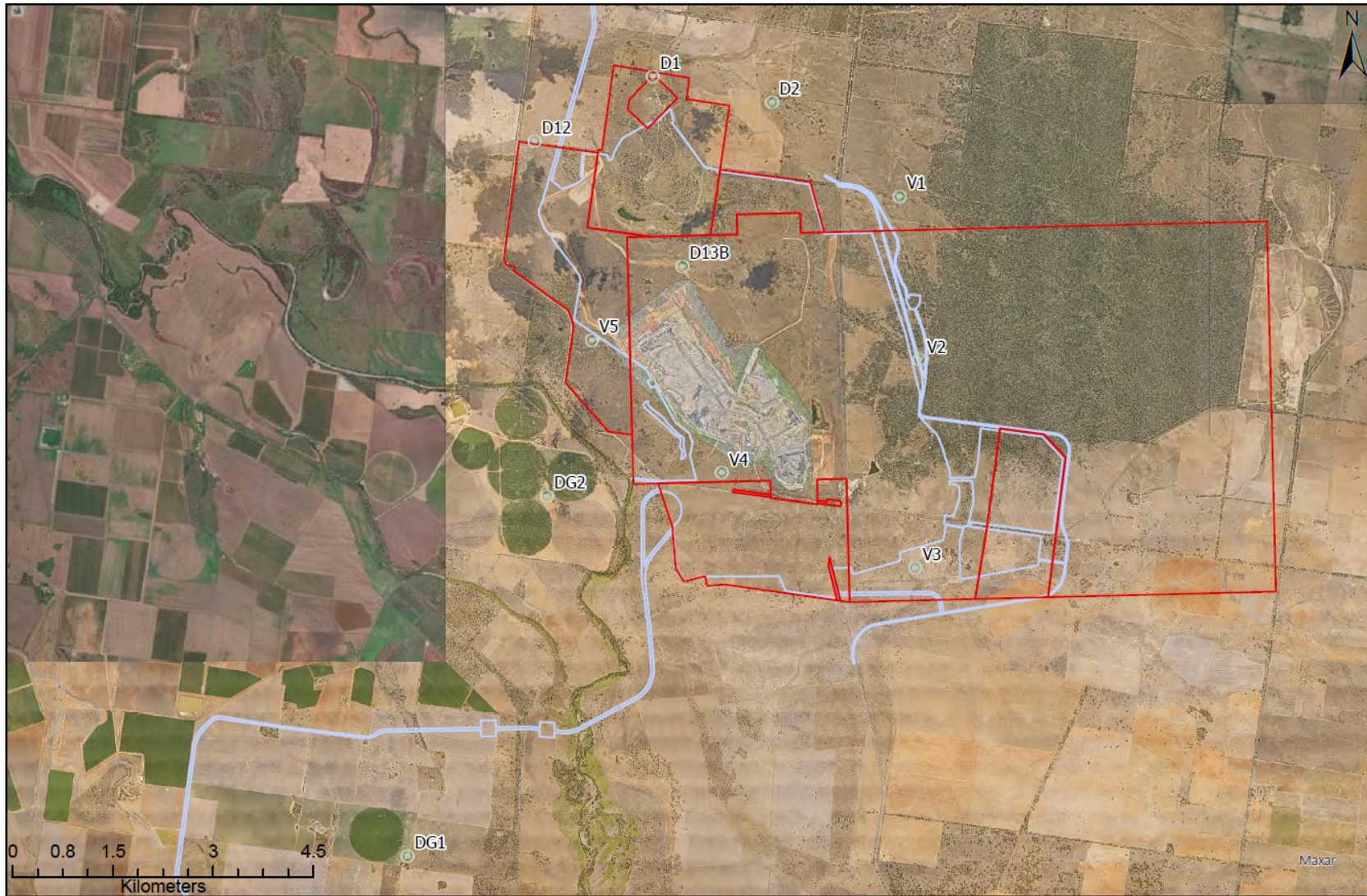


Appendix B



**Vickery Coal Mine
Air Quality Monitoring Locations**

Date: Oct 2024	Scale: 1:51,000
MGA Zone 56	Author: A. Quiroz



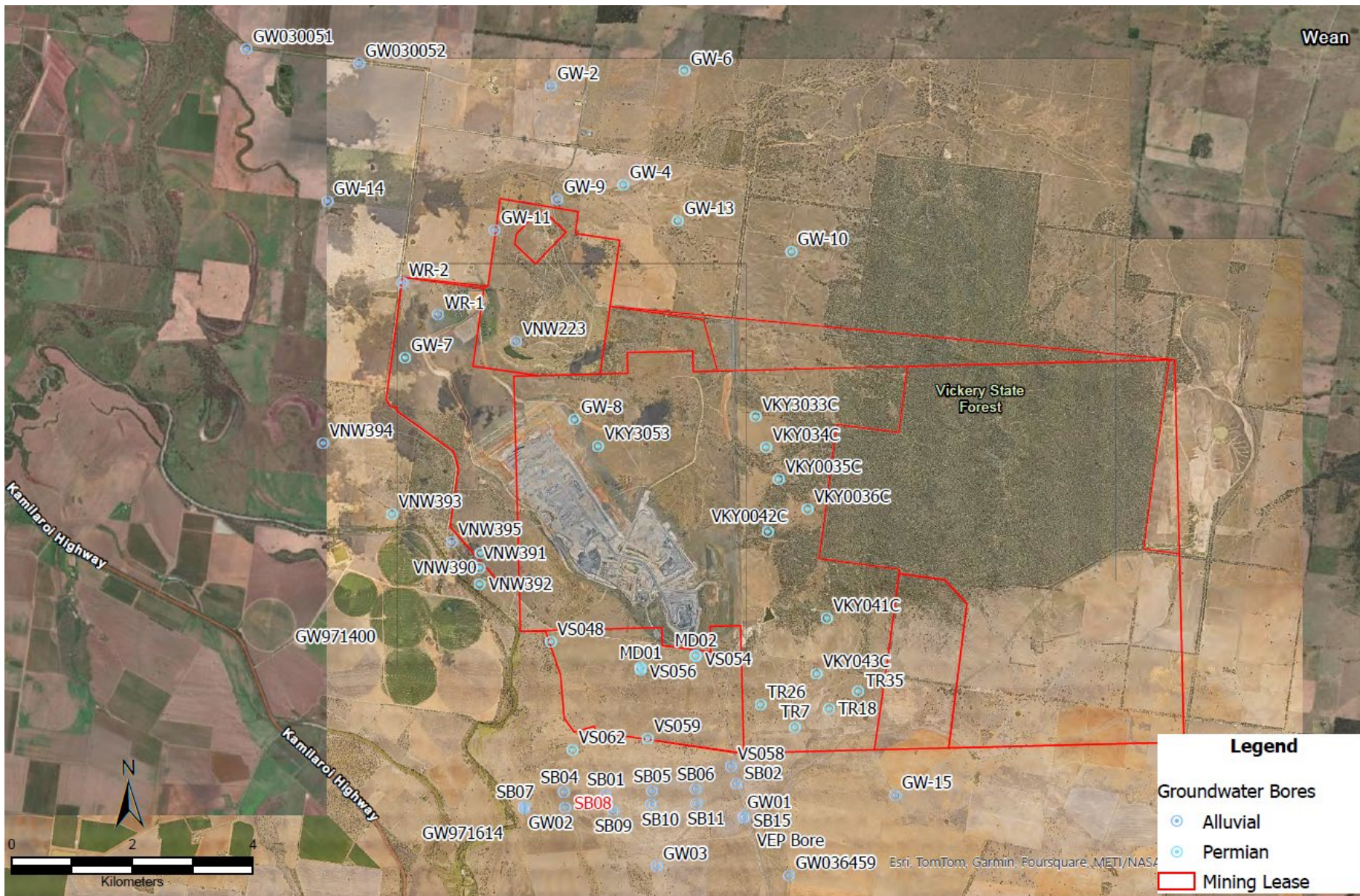
Dust Deposition Gauges Monitoring Locations

Date: Jun 2024
MGA Zone 56

Scale: 1:70,000
Author: A. Quiroz

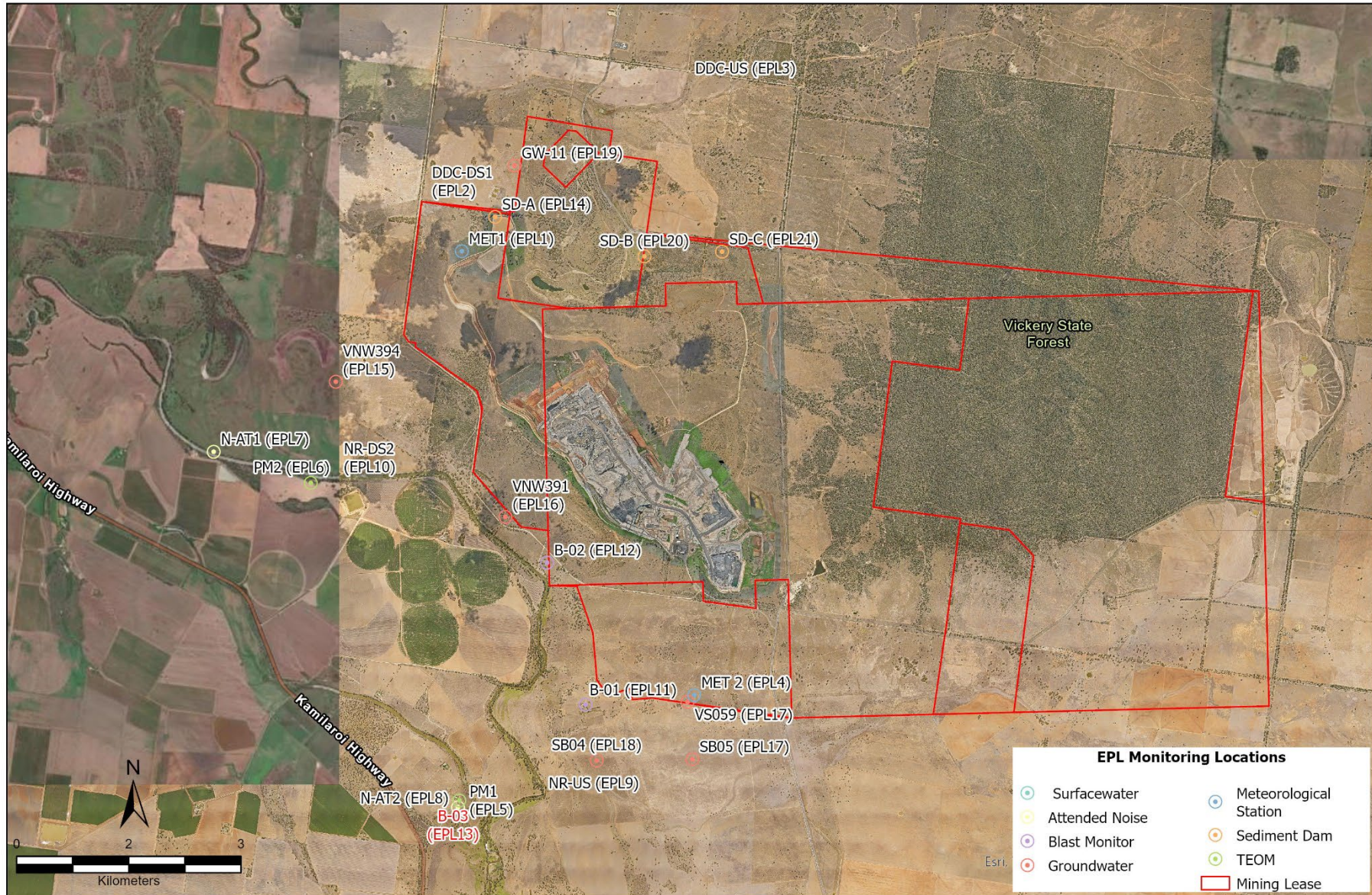
Legend

-  DDGs
-  Mining Lease
-  Approved Disturbance Area



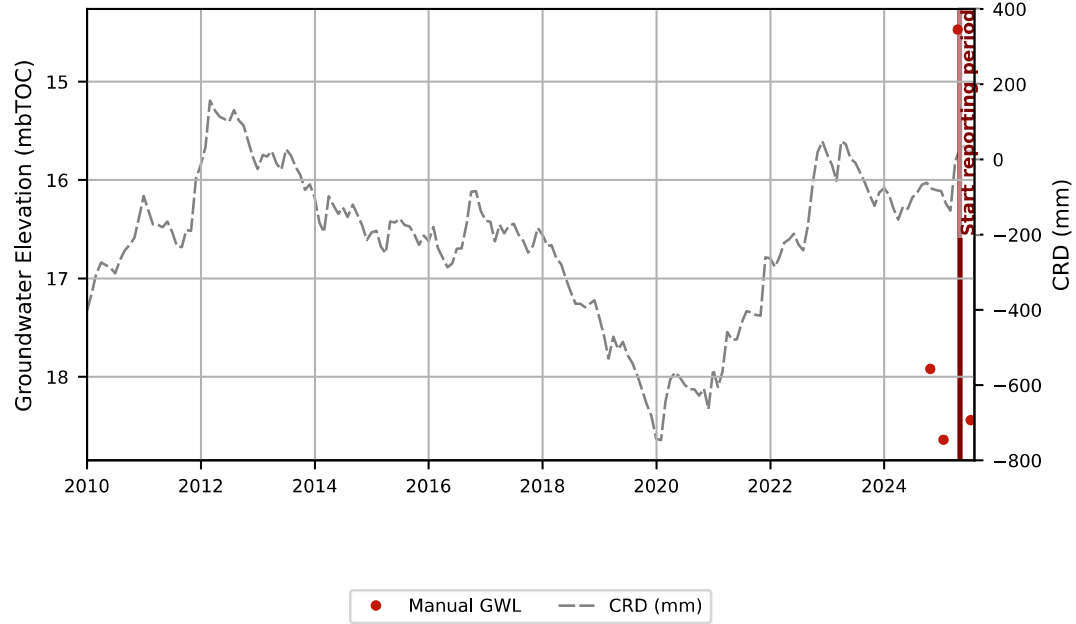
Legend

- Groundwater Bores
 - Alluvial
 - Permian
- Mining Lease

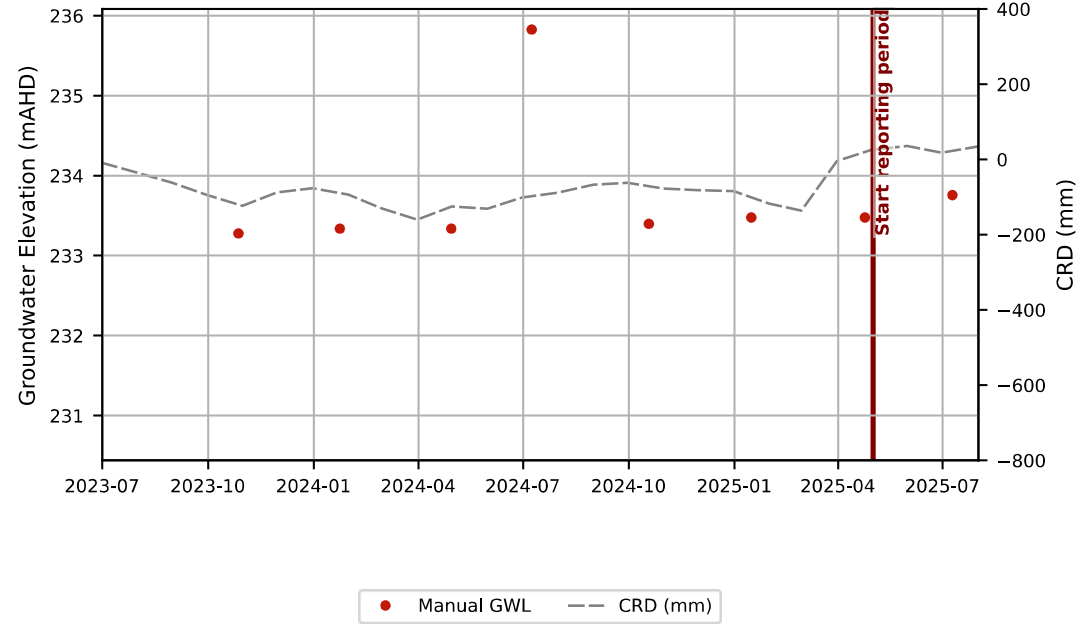


Appendix C

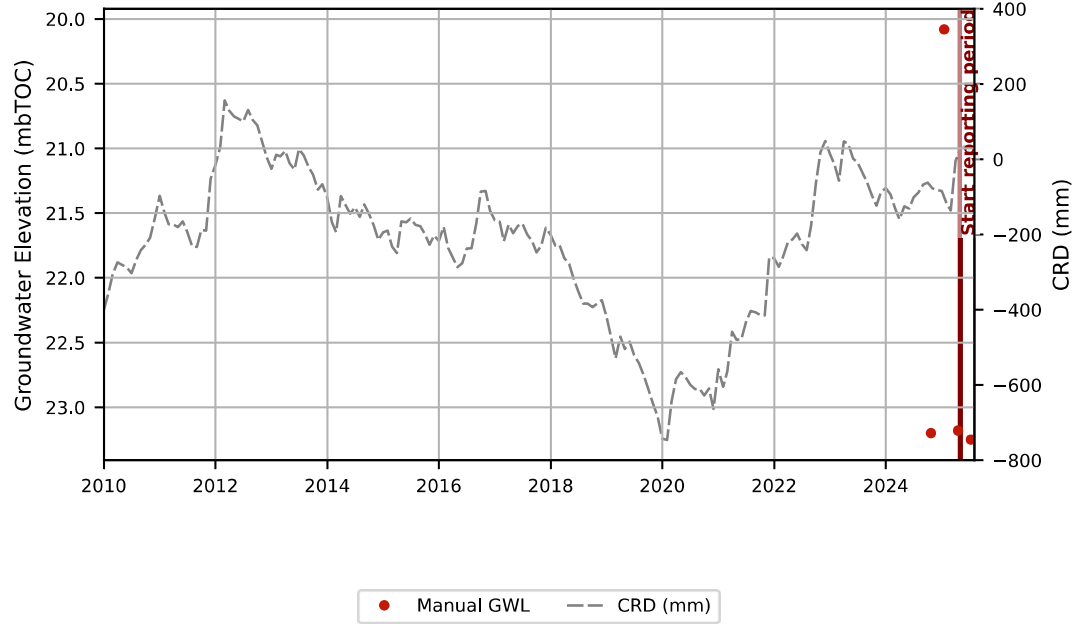
Hydrograph - GW-10



Hydrograph - GW-11



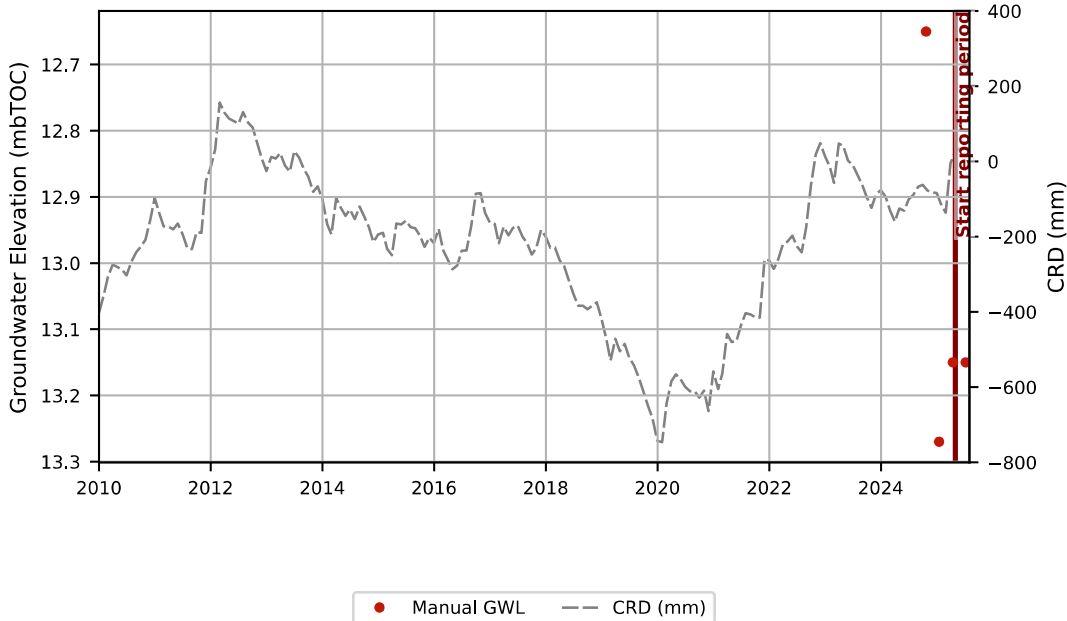
Hydrograph - GW-13



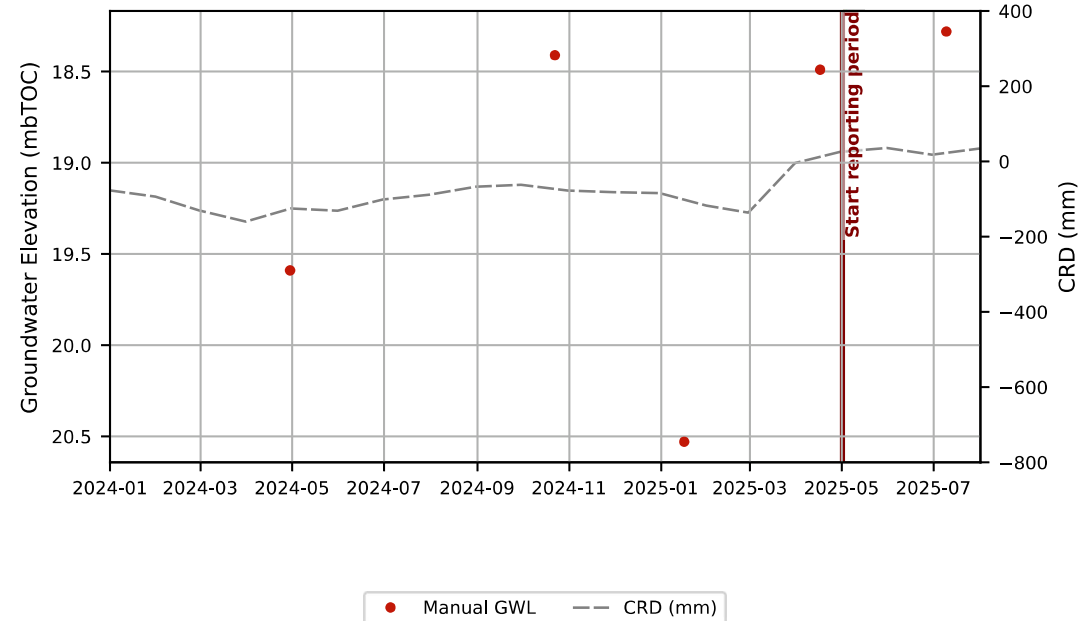
Hydrograph - GW-14



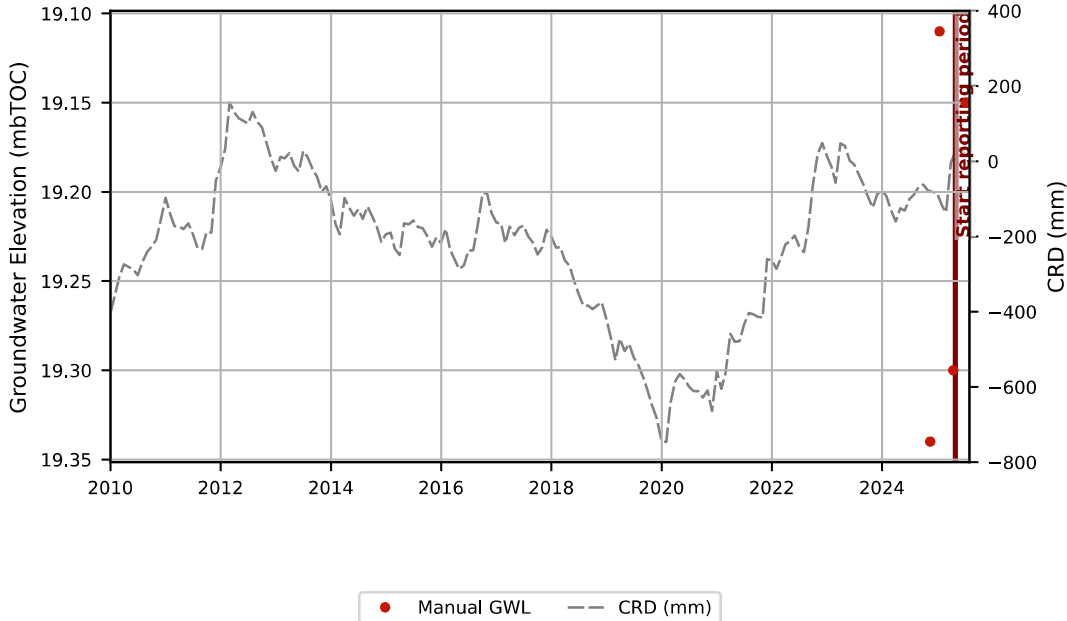
Hydrograph - GW-15



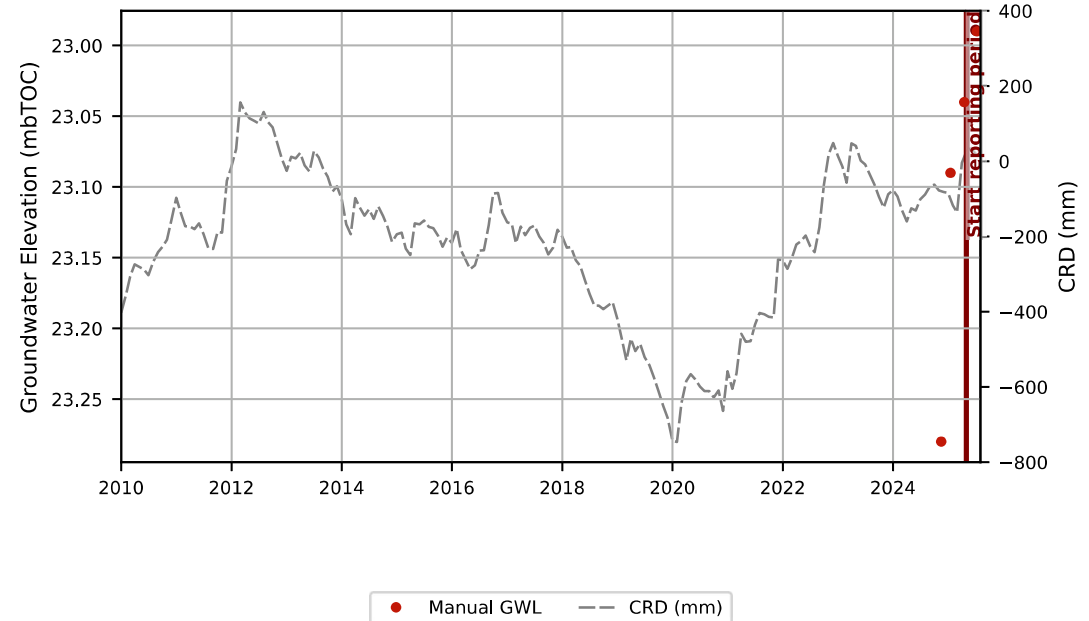
Hydrograph - GW-2



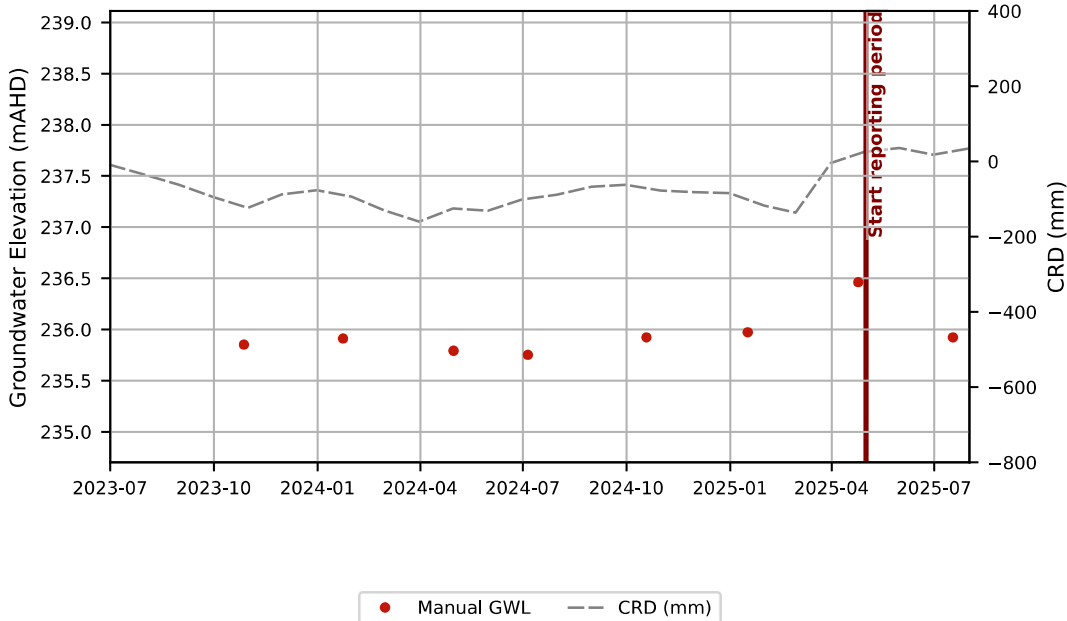
Hydrograph - GW-4



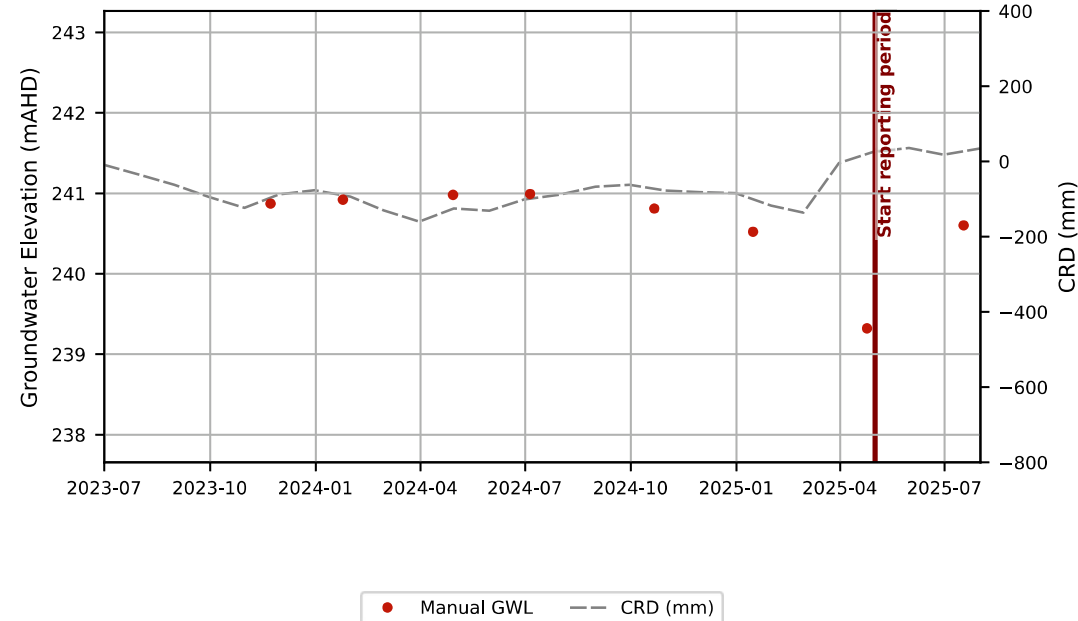
Hydrograph - GW-6



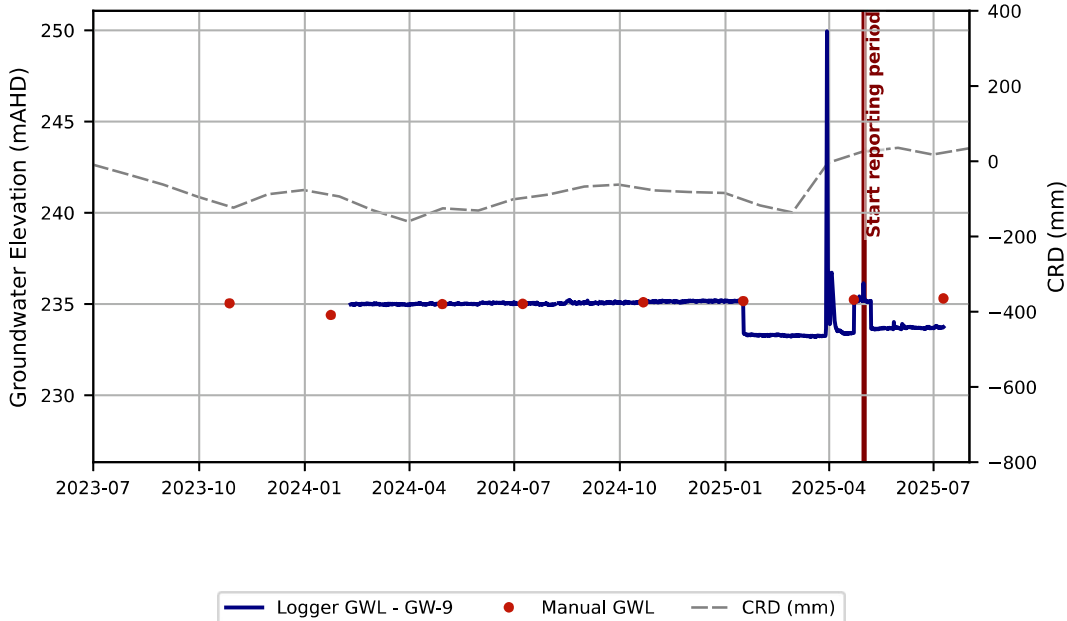
Hydrograph - GW-7



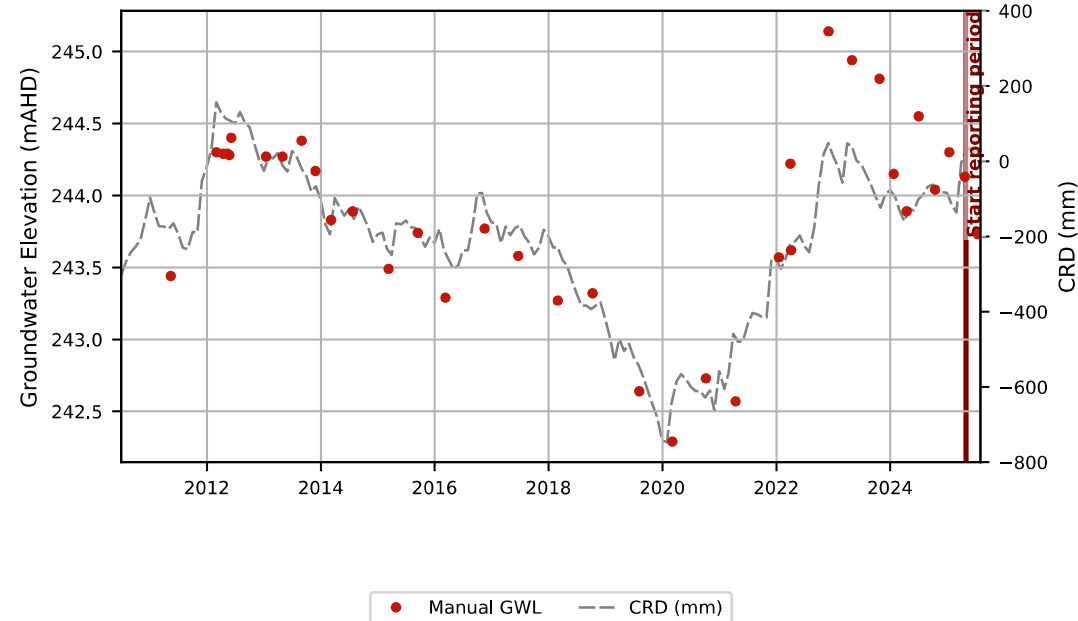
Hydrograph - GW-8



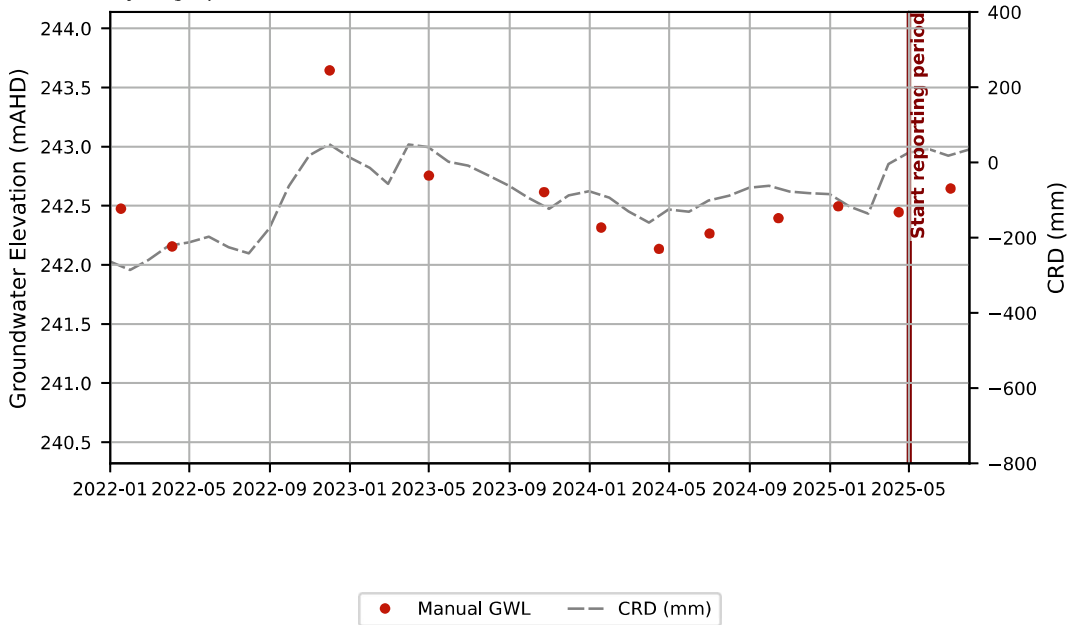
Hydrograph - GW-9



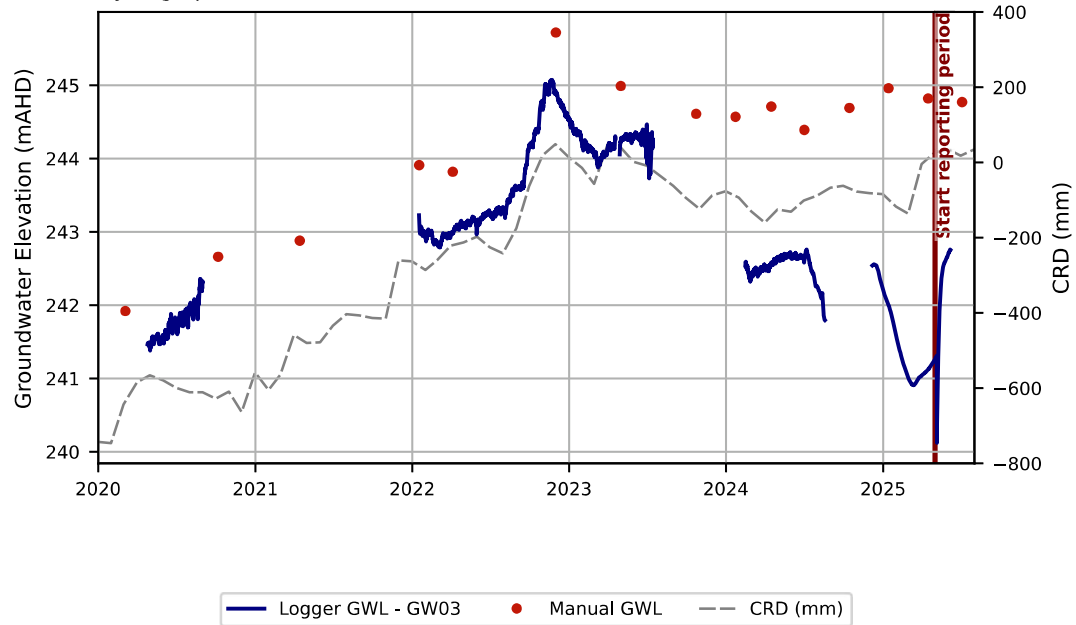
Hydrograph - GW01



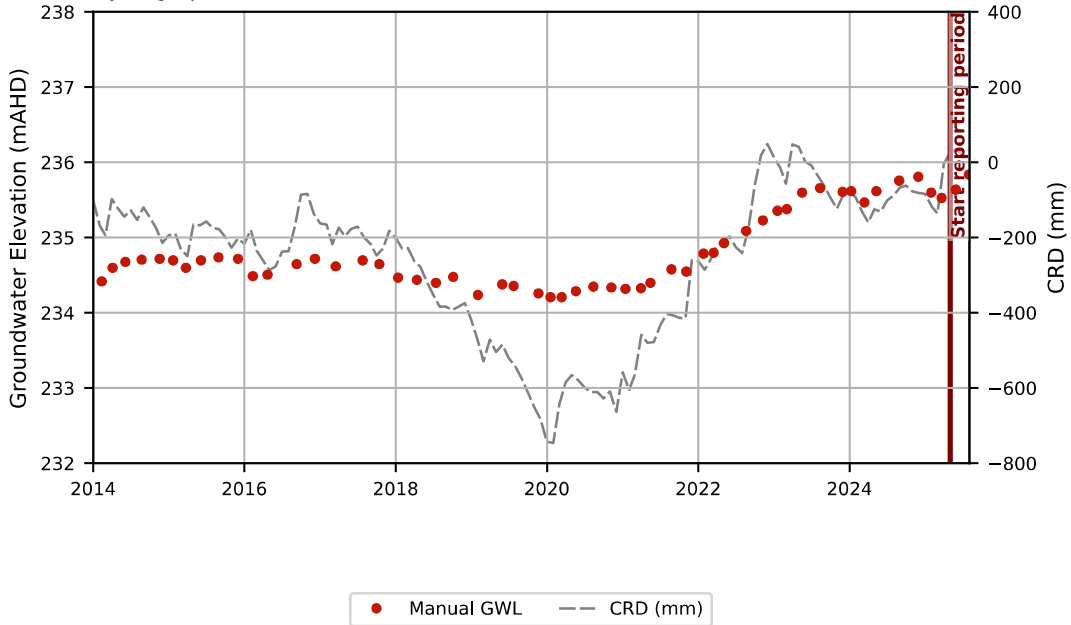
Hydrograph - GW02



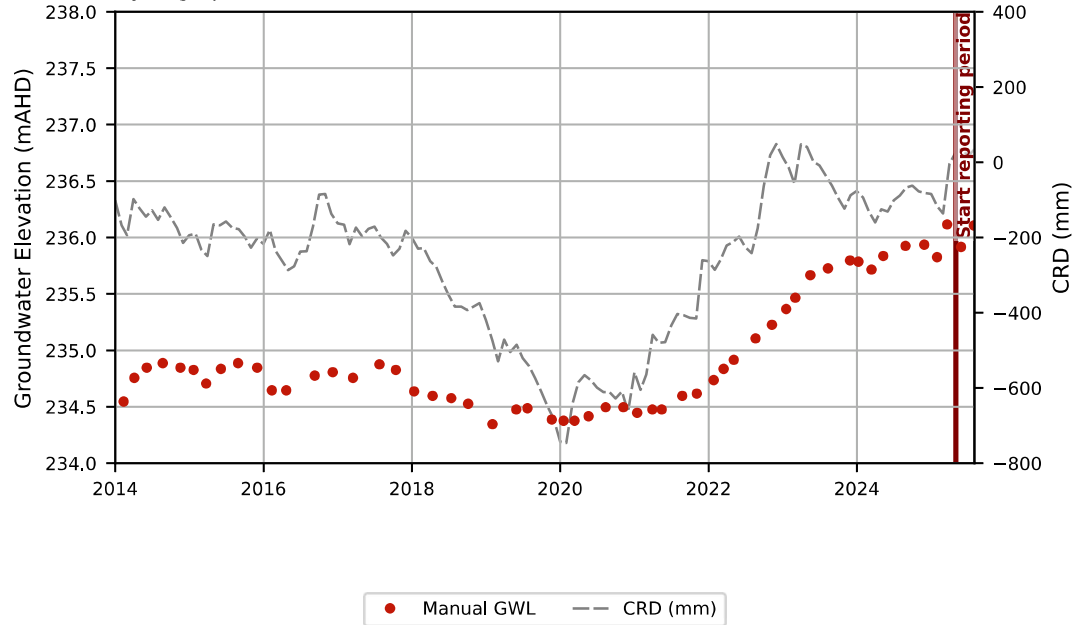
Hydrograph - GW03

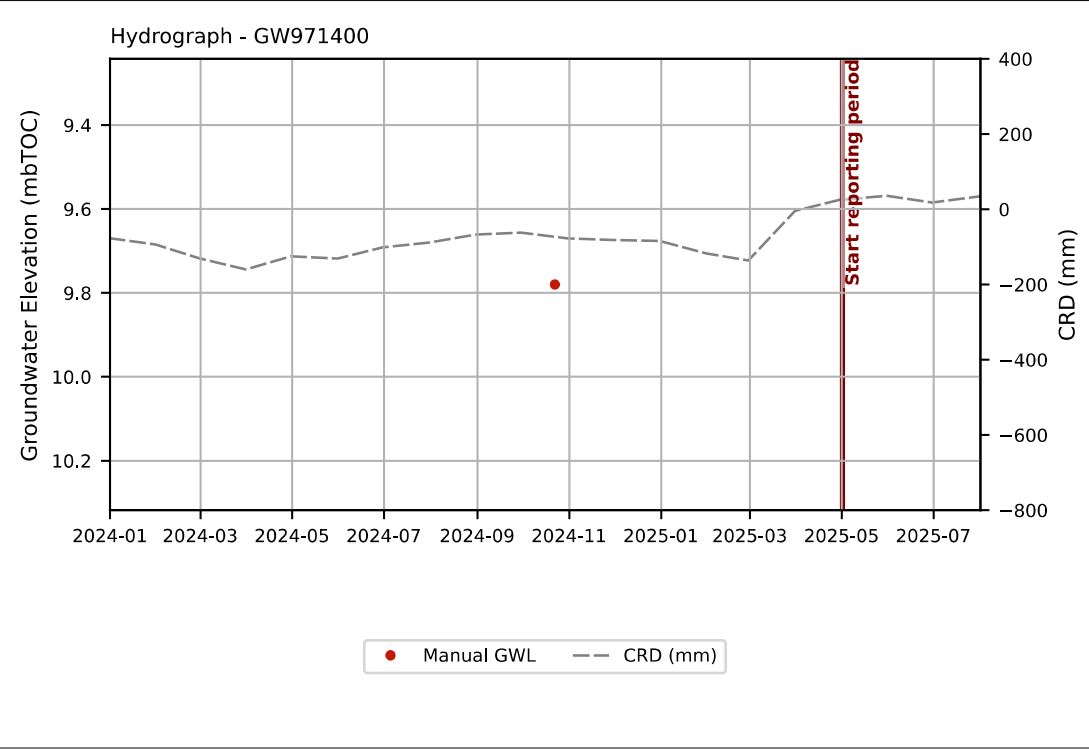
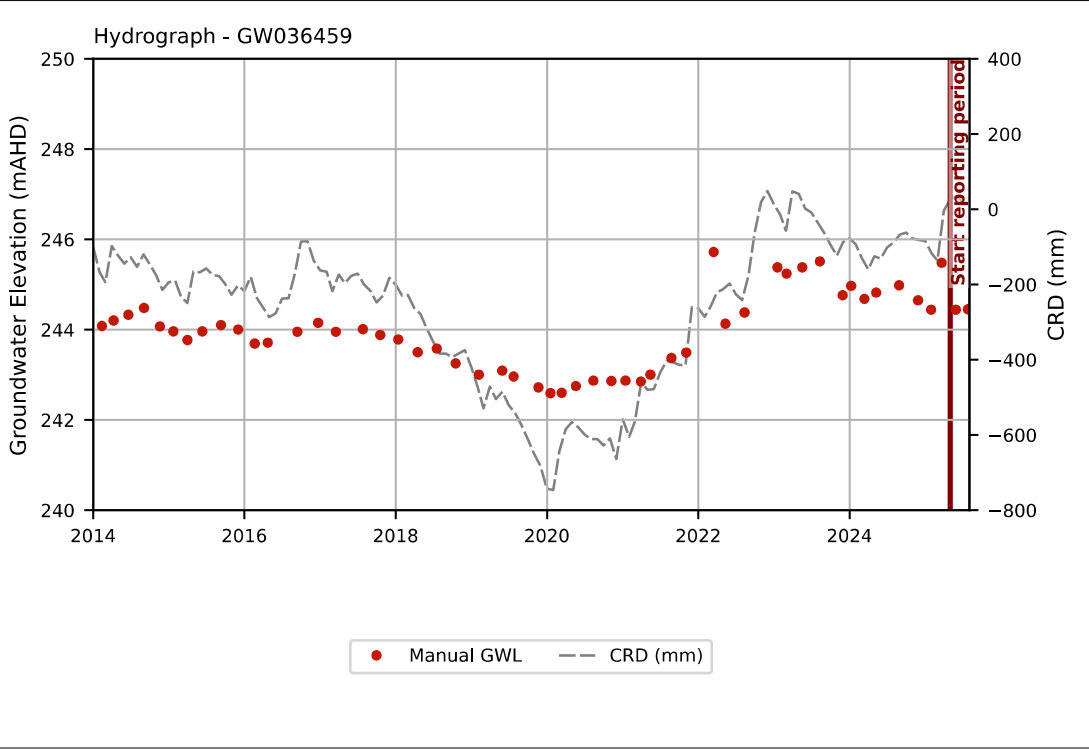
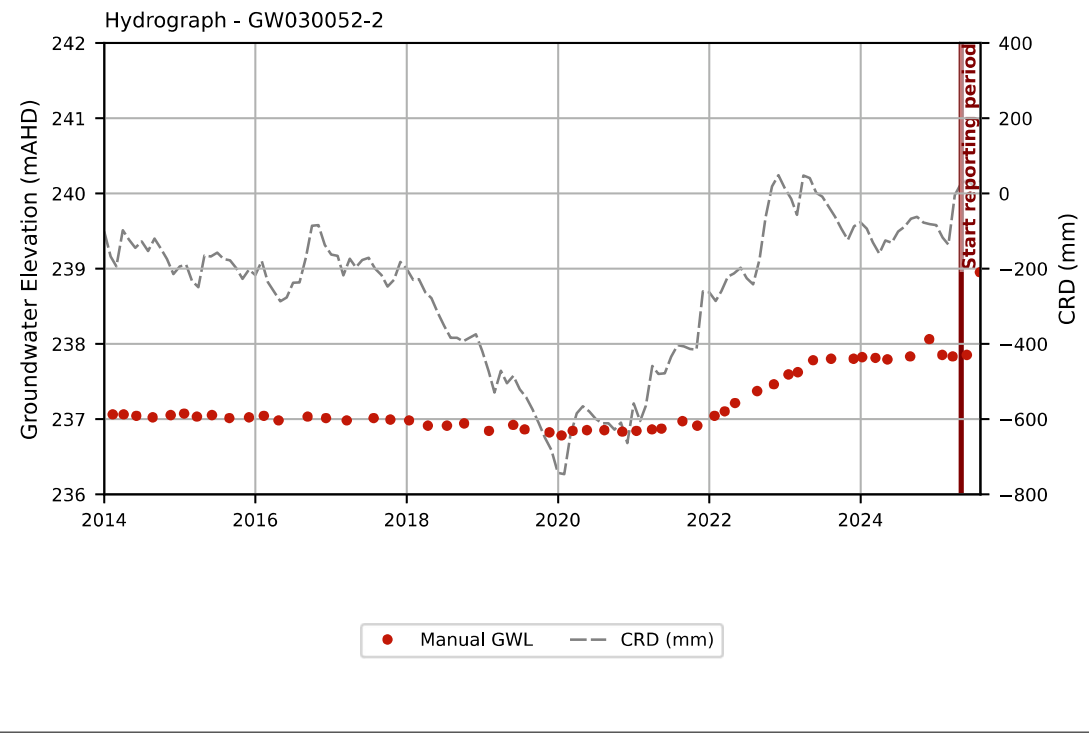
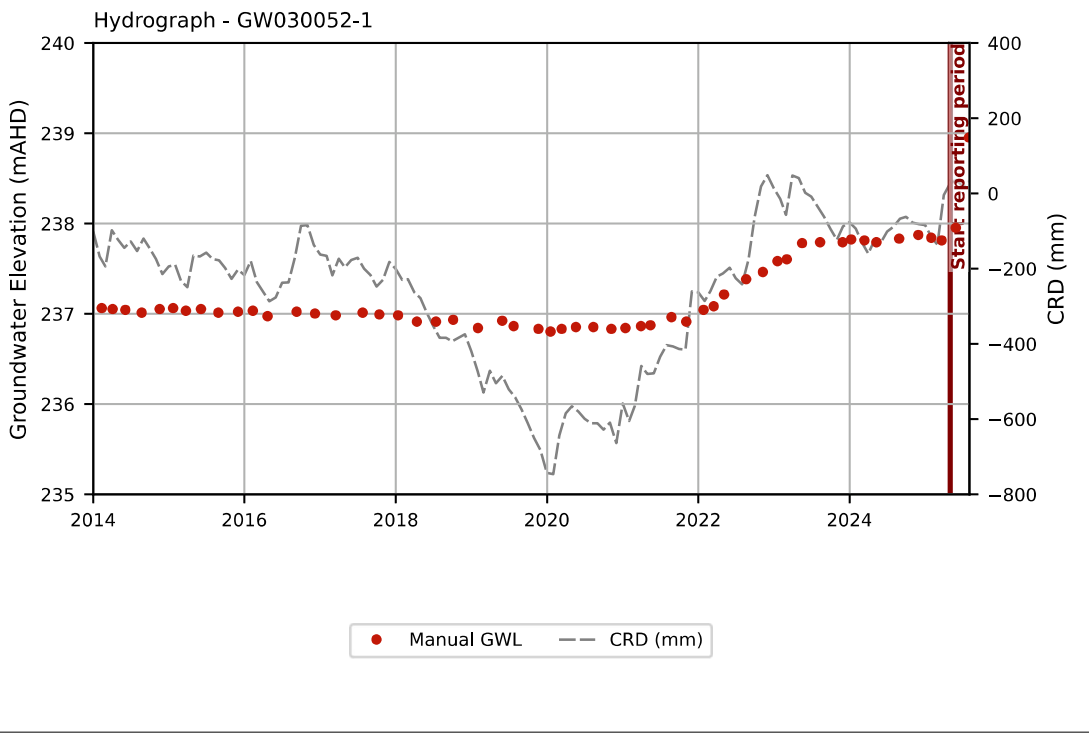


Hydrograph - GW030051-1

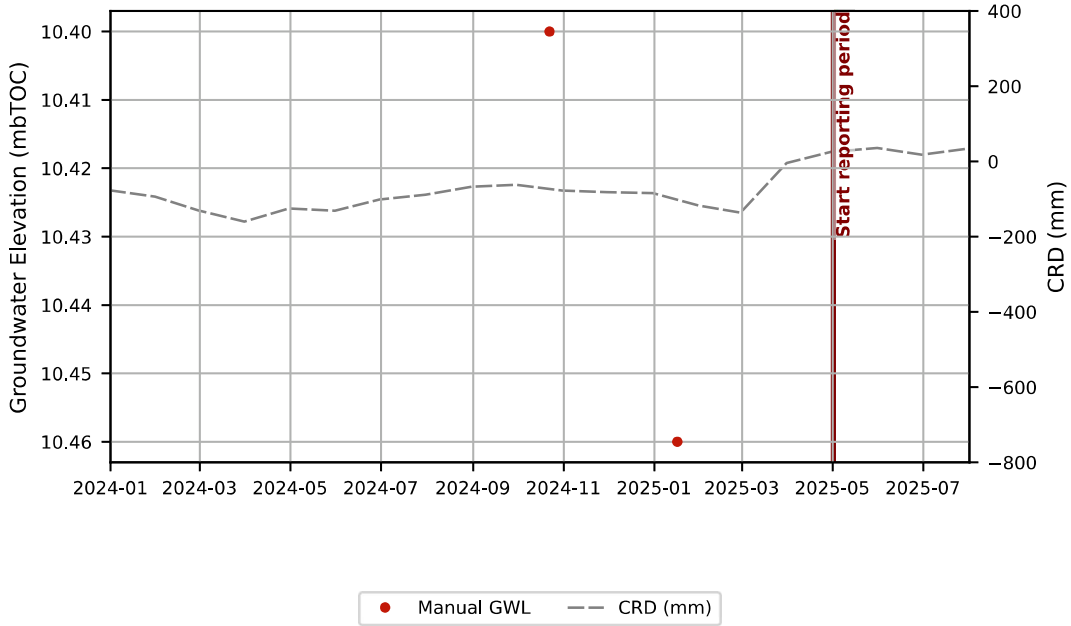


Hydrograph - GW030051-2

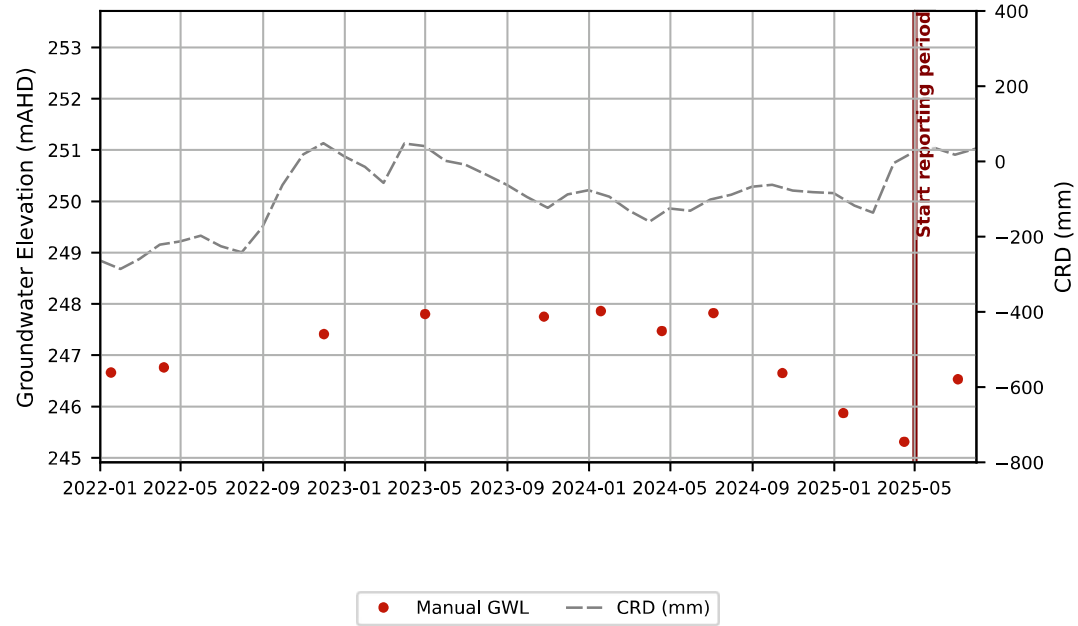




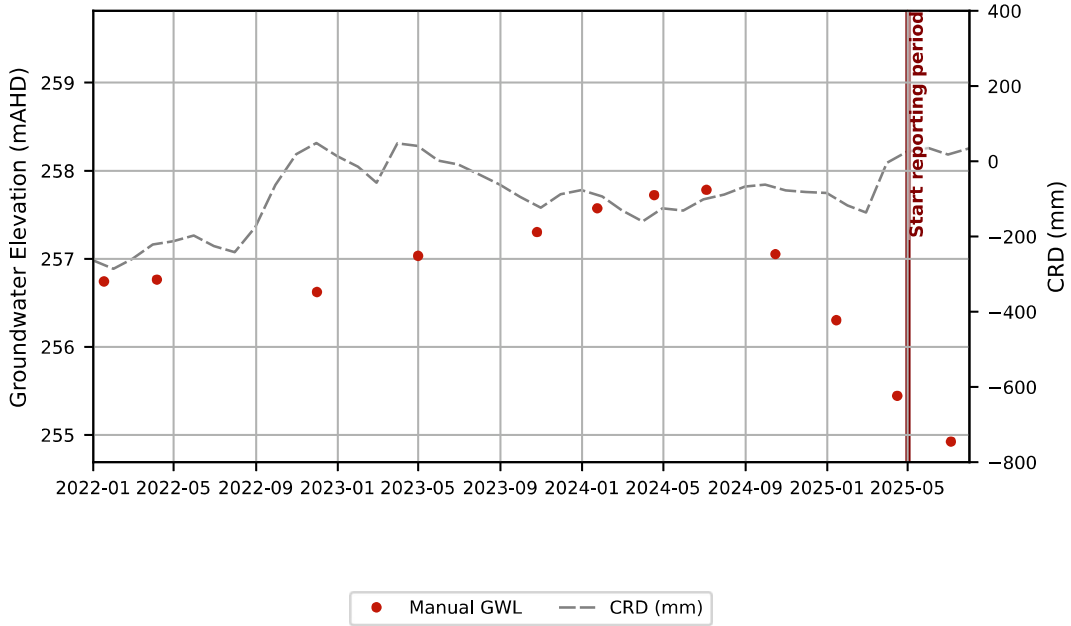
Hydrograph - GW971614



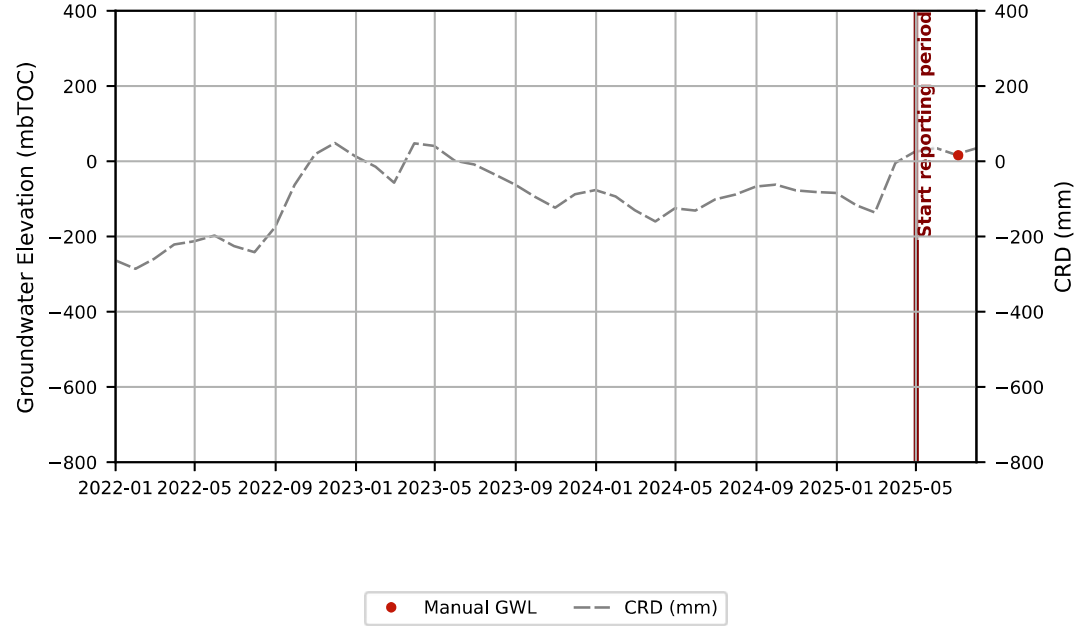
Hydrograph - MD01



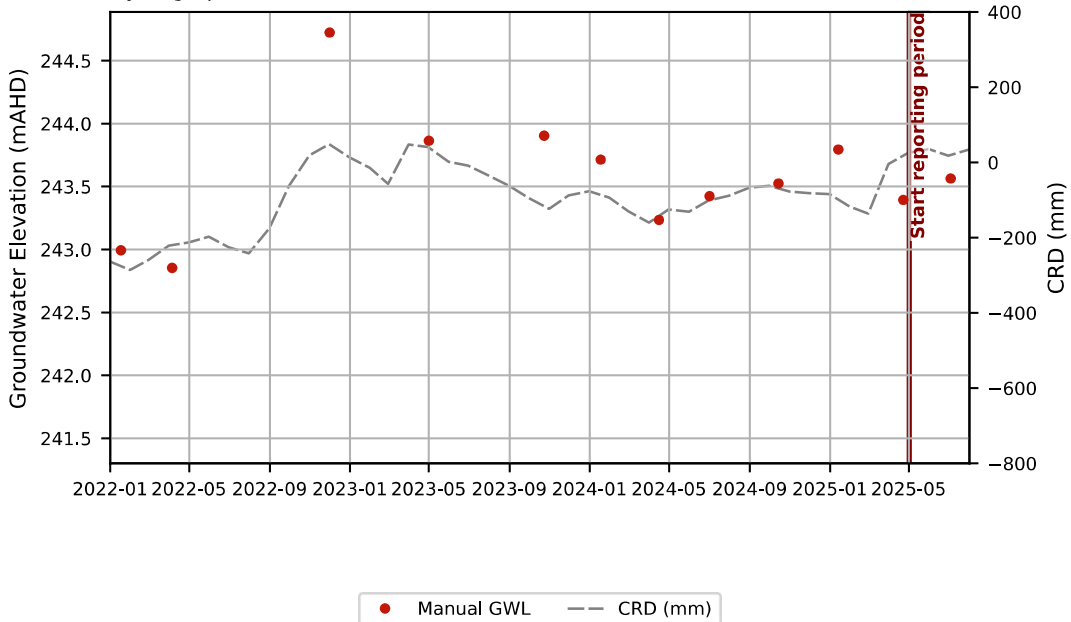
Hydrograph - MD02



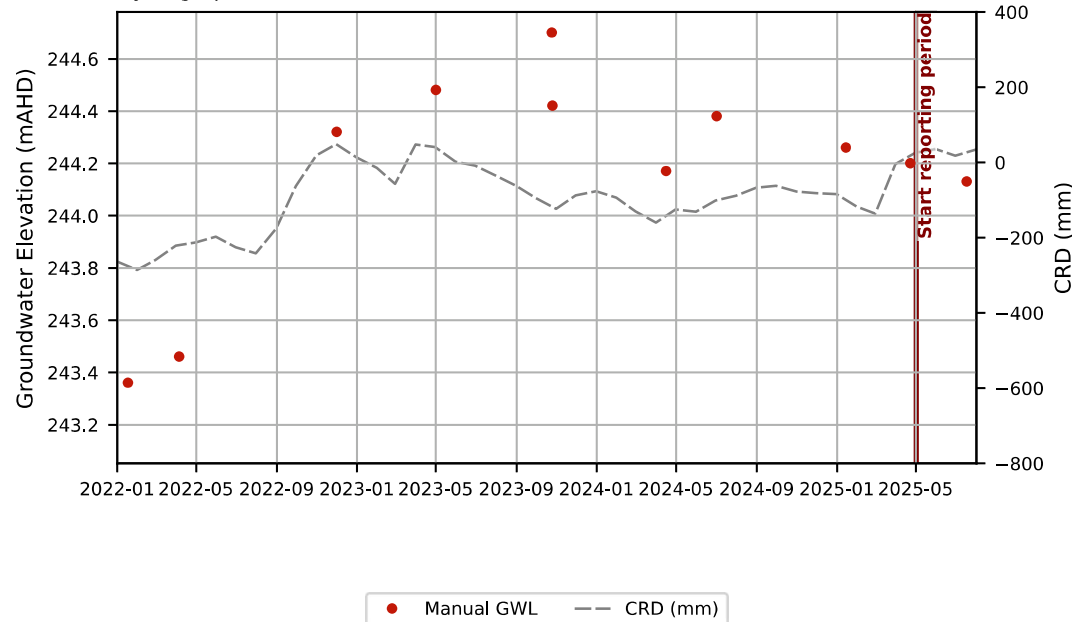
Hydrograph - MD03



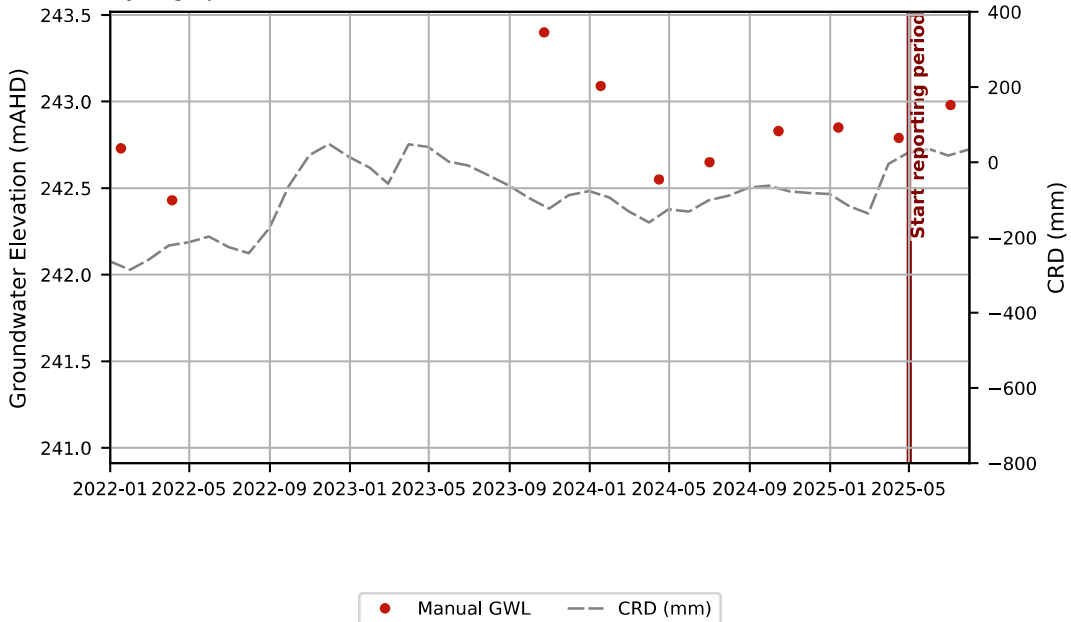
Hydrograph - SB01



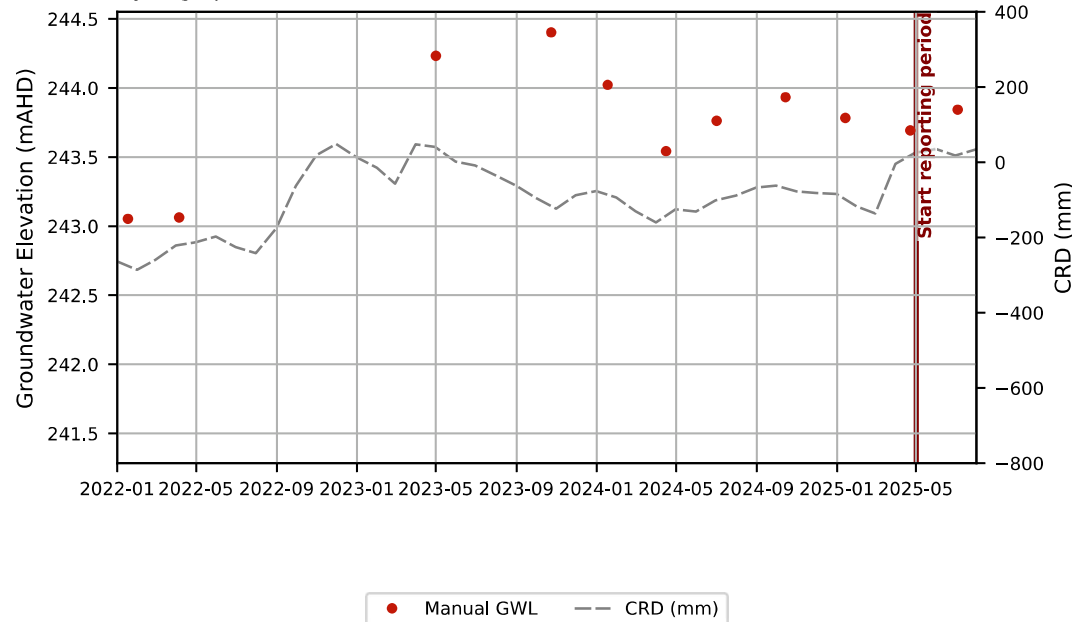
Hydrograph - SB02



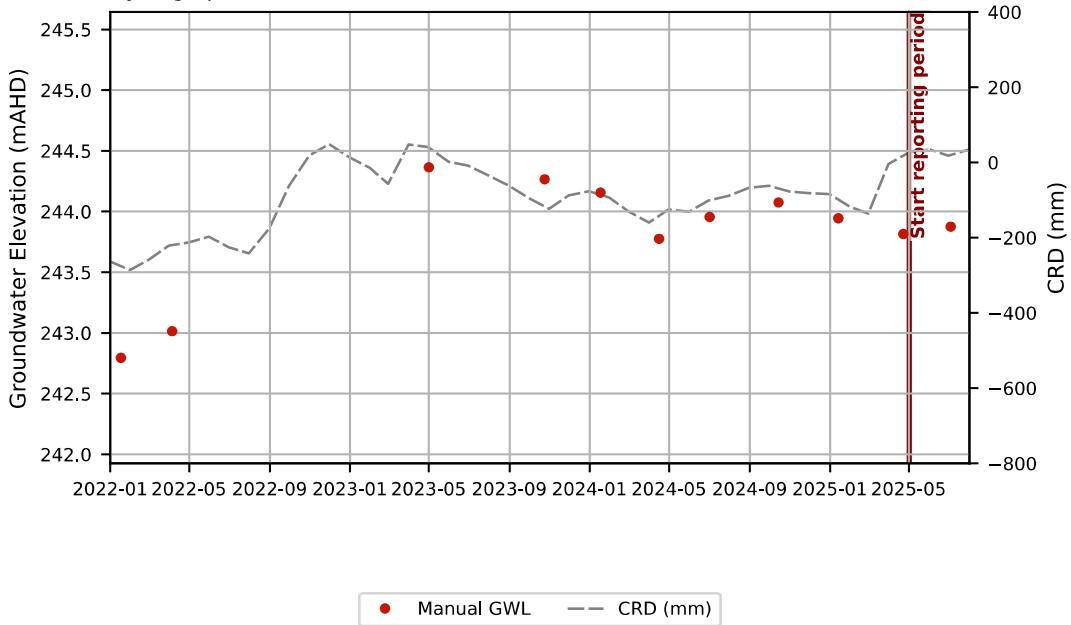
Hydrograph - SB04



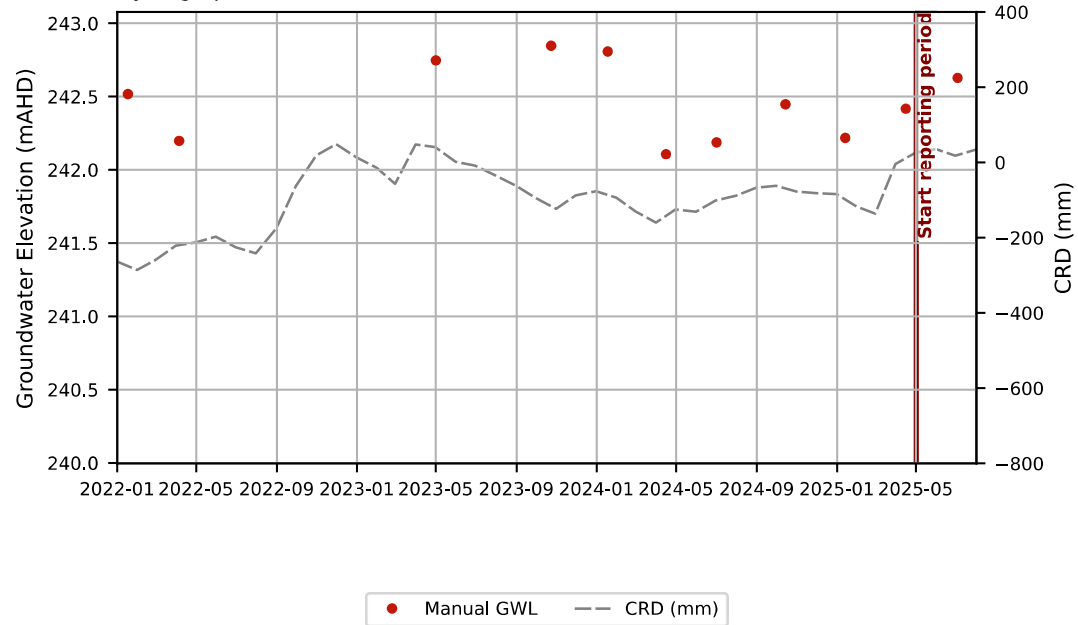
Hydrograph - SB05



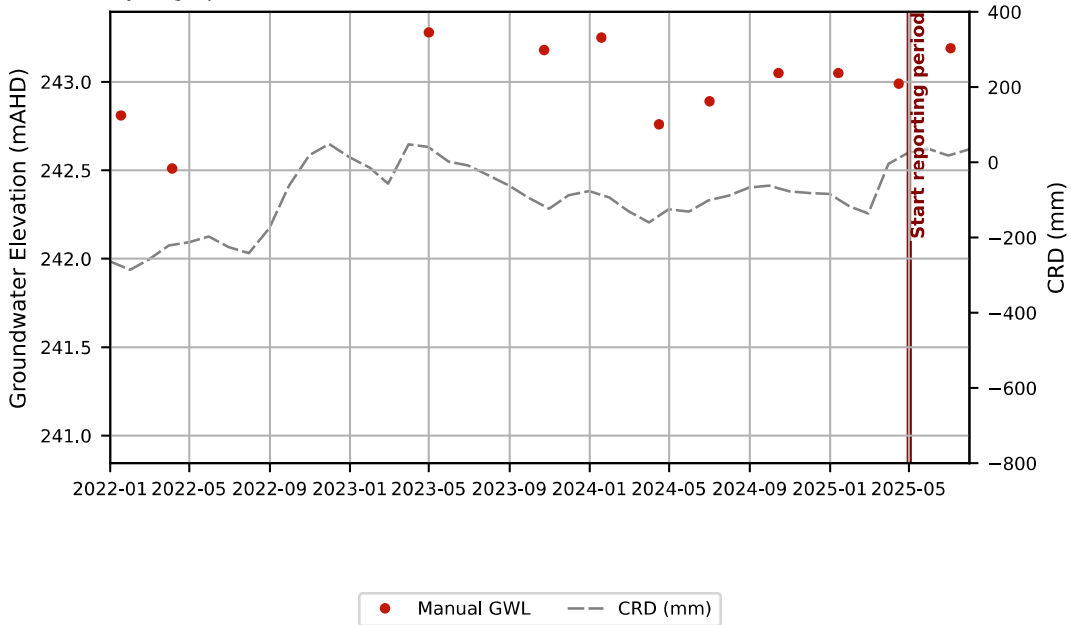
Hydrograph - SB06



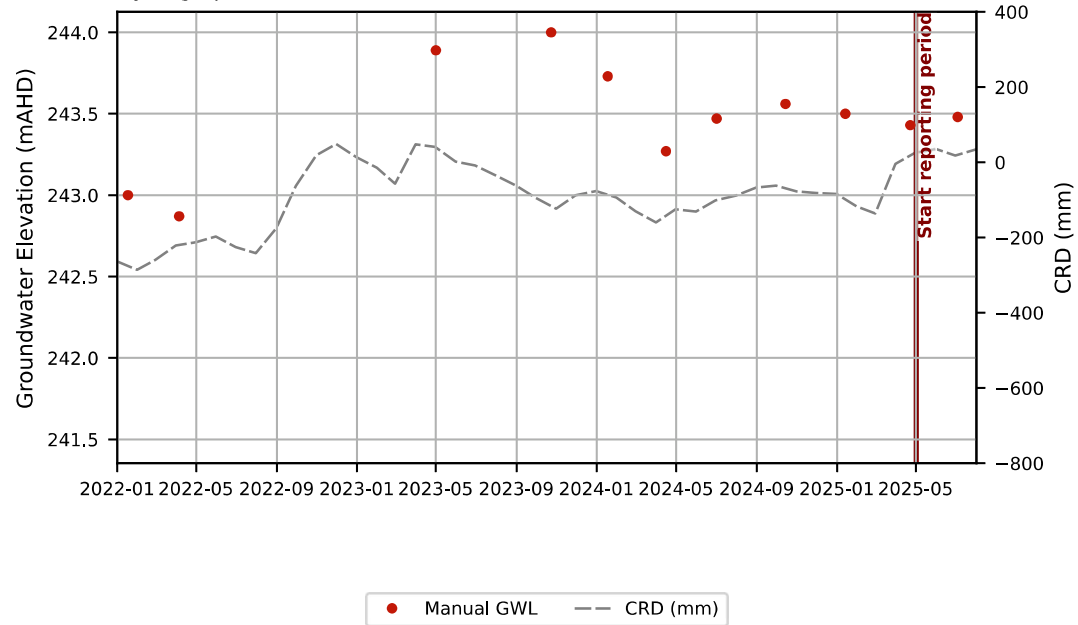
Hydrograph - SB07



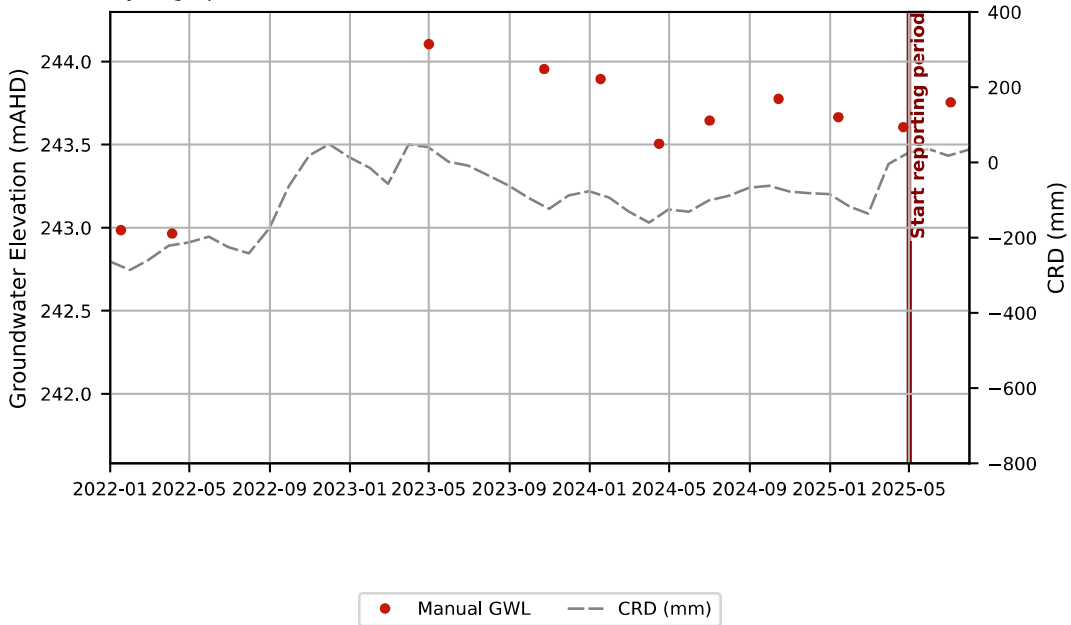
Hydrograph - SB08



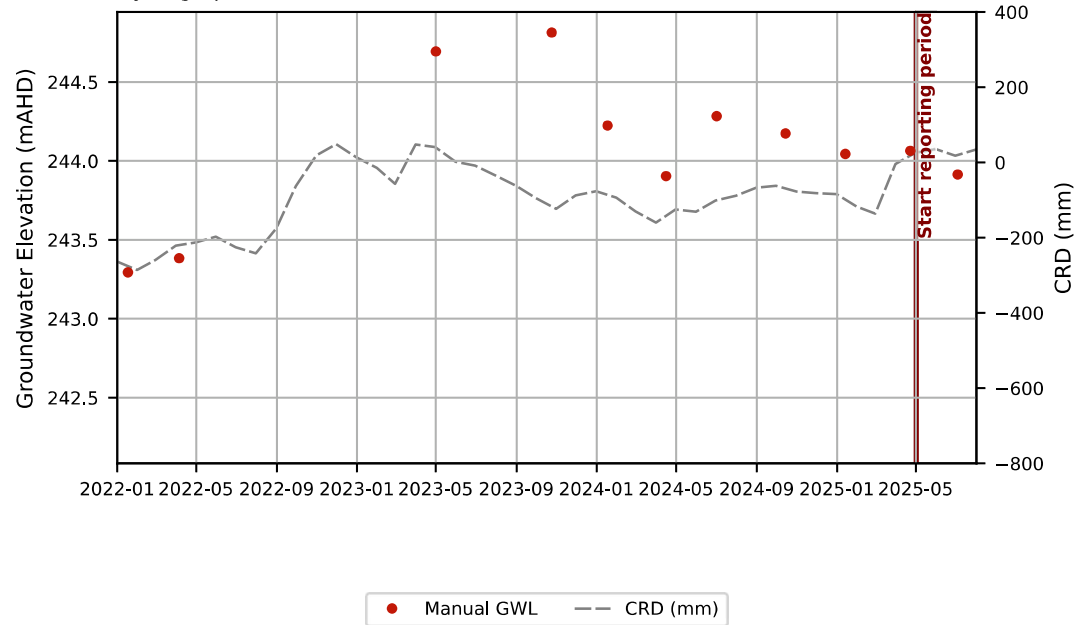
Hydrograph - SB09



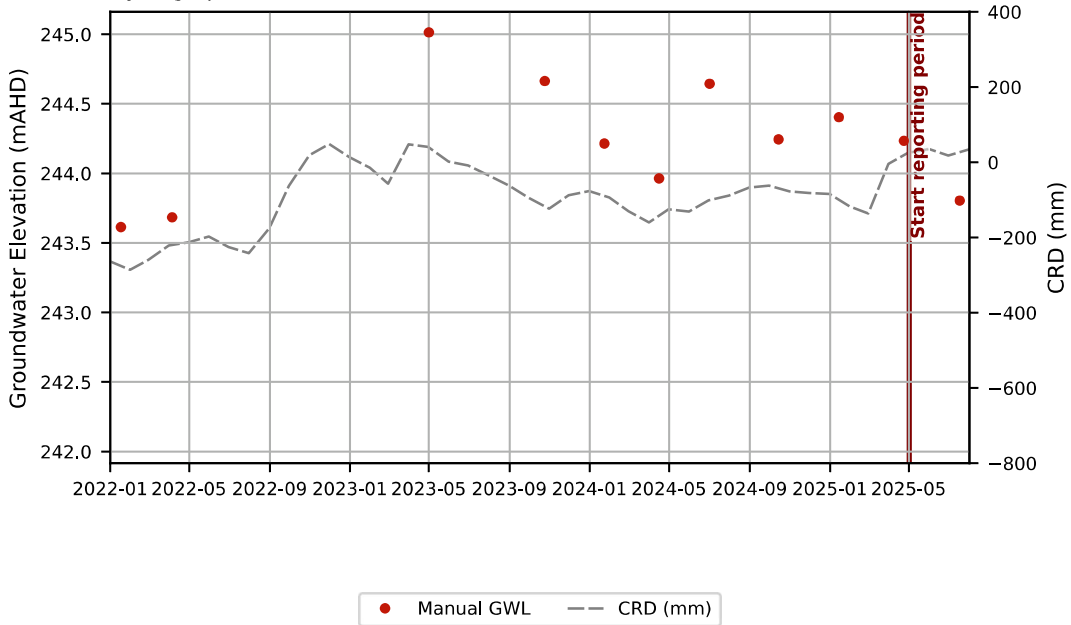
Hydrograph - SB10



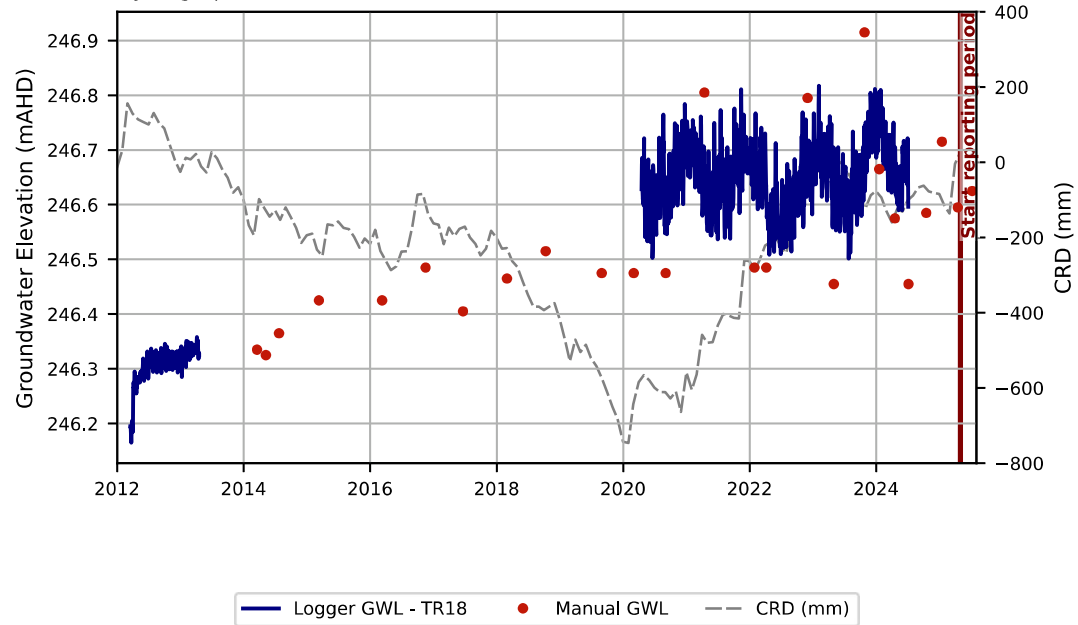
Hydrograph - SB11



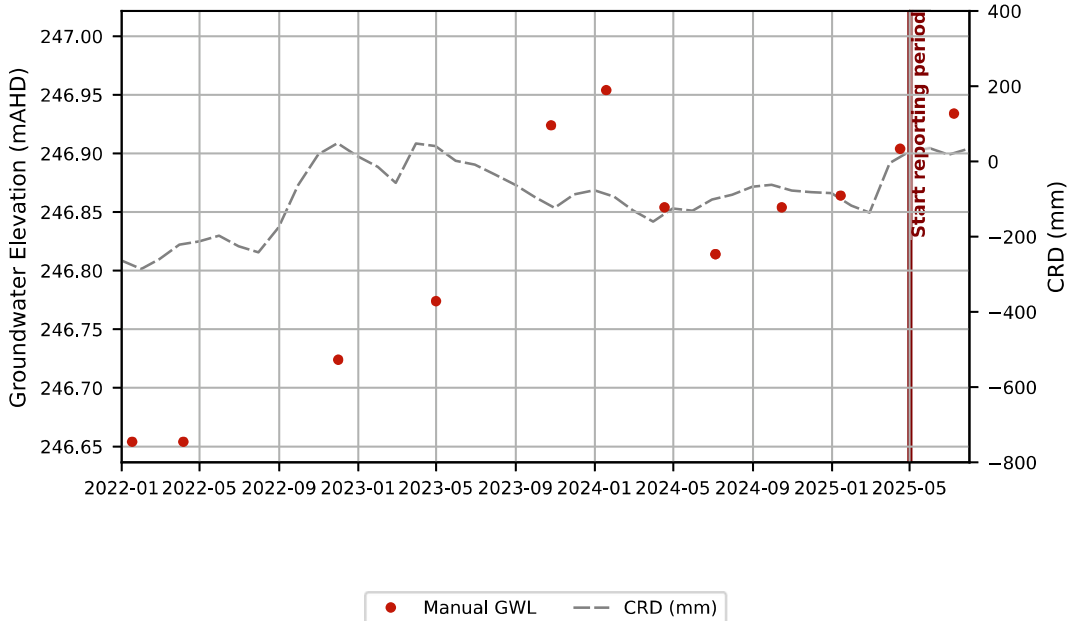
Hydrograph - SB15



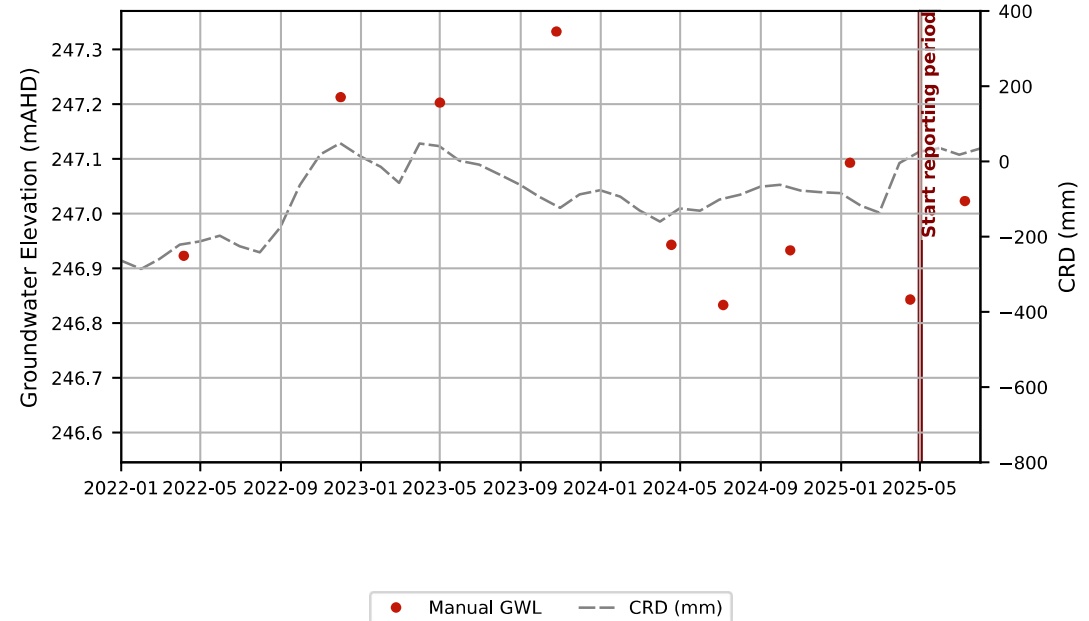
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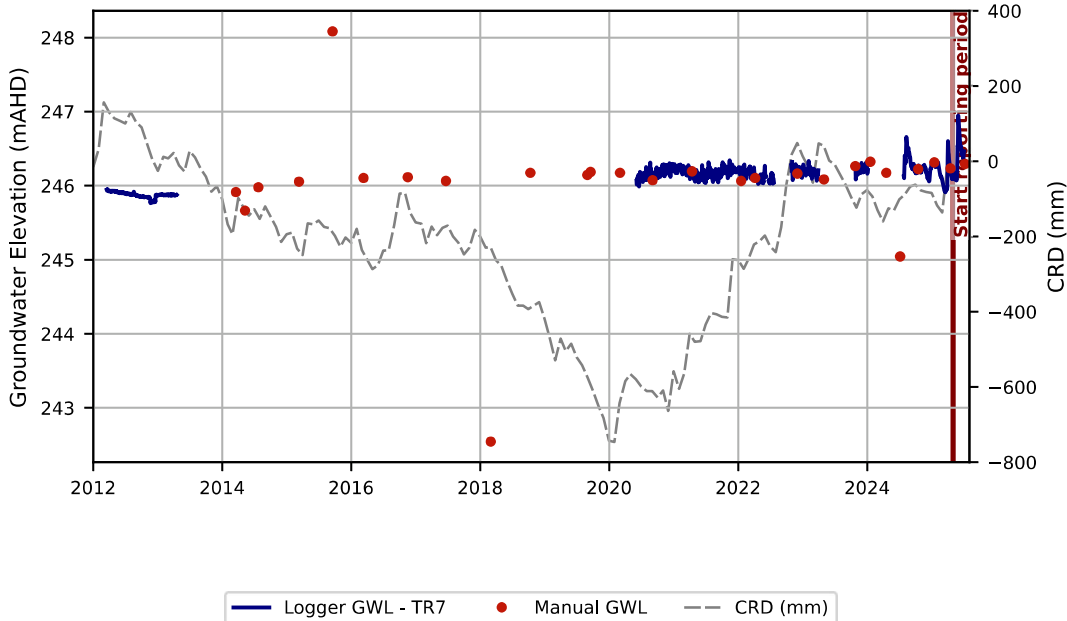
Hydrograph - TR26



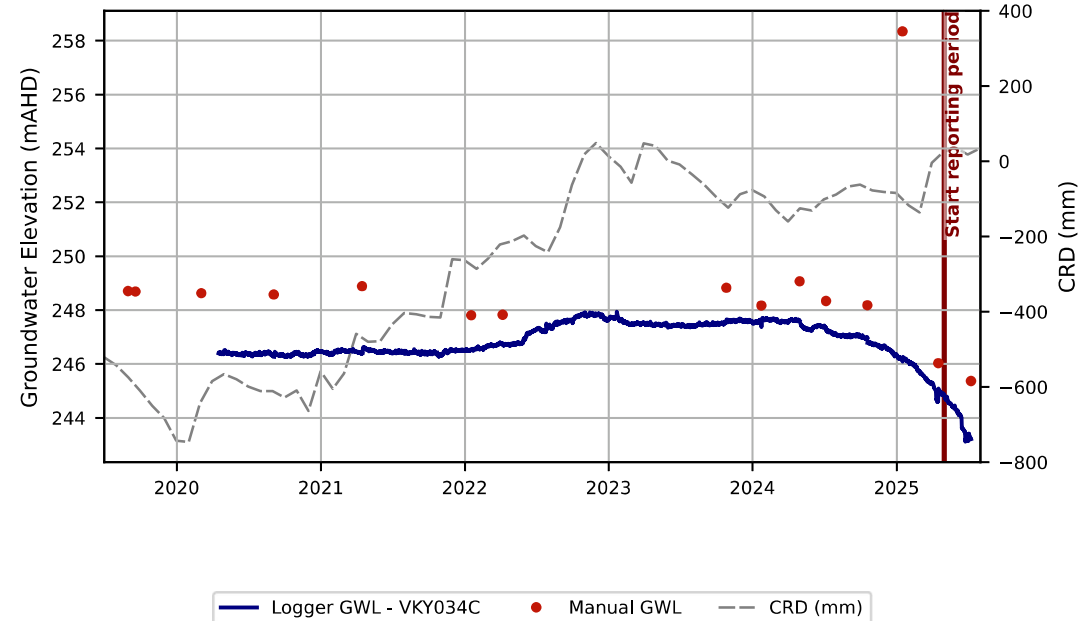
Hydrograph - TR35

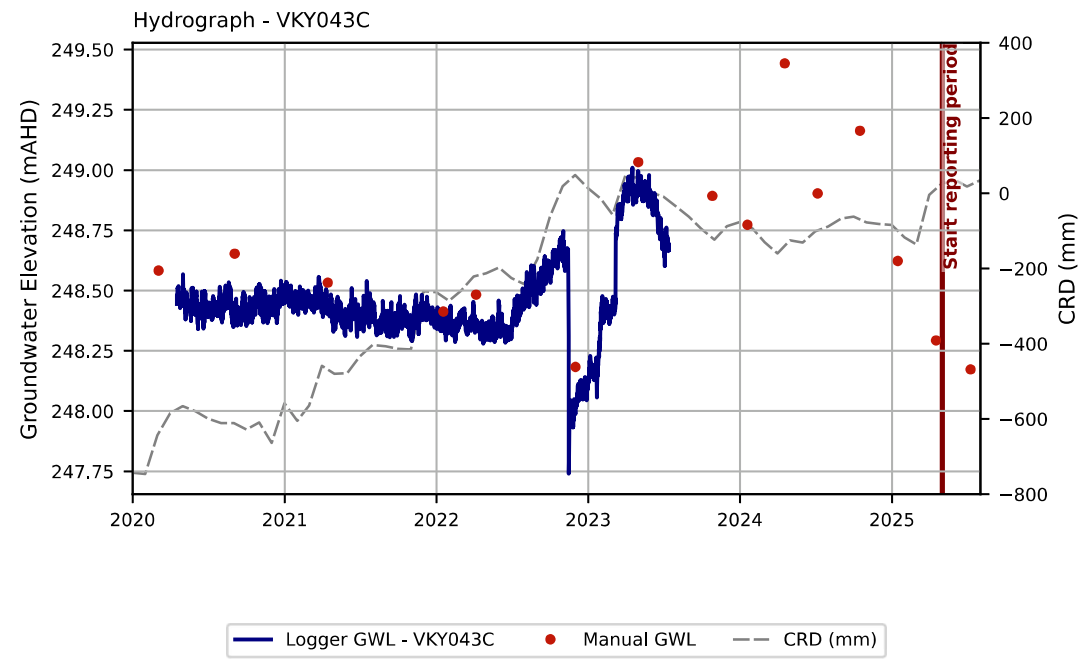
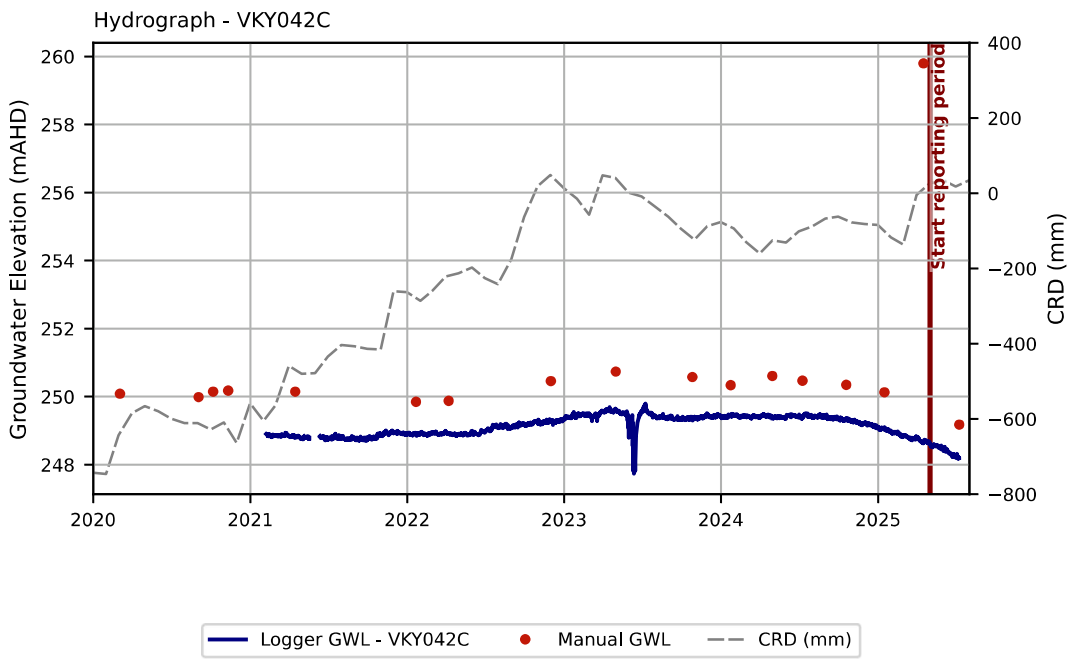
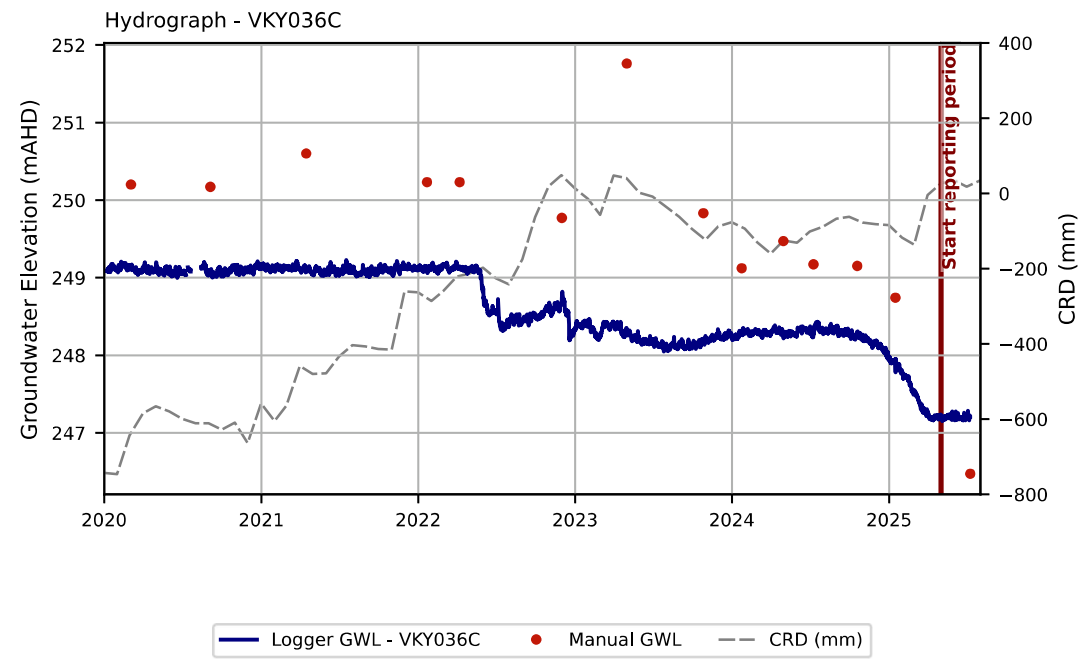
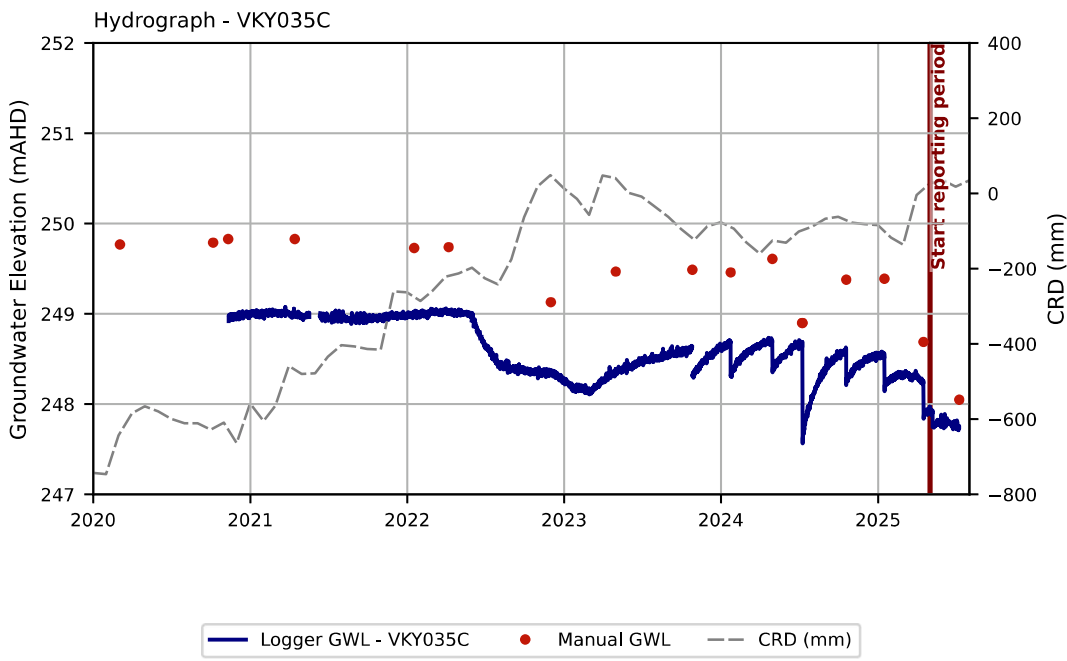


Hydrograph - TR7

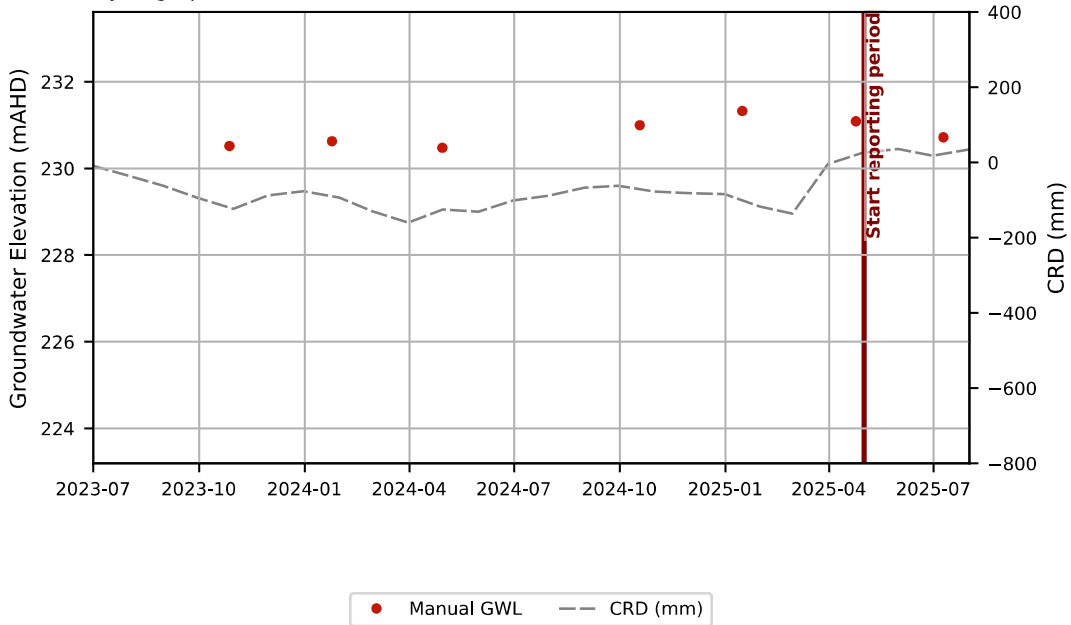


Hydrograph - VKY034C

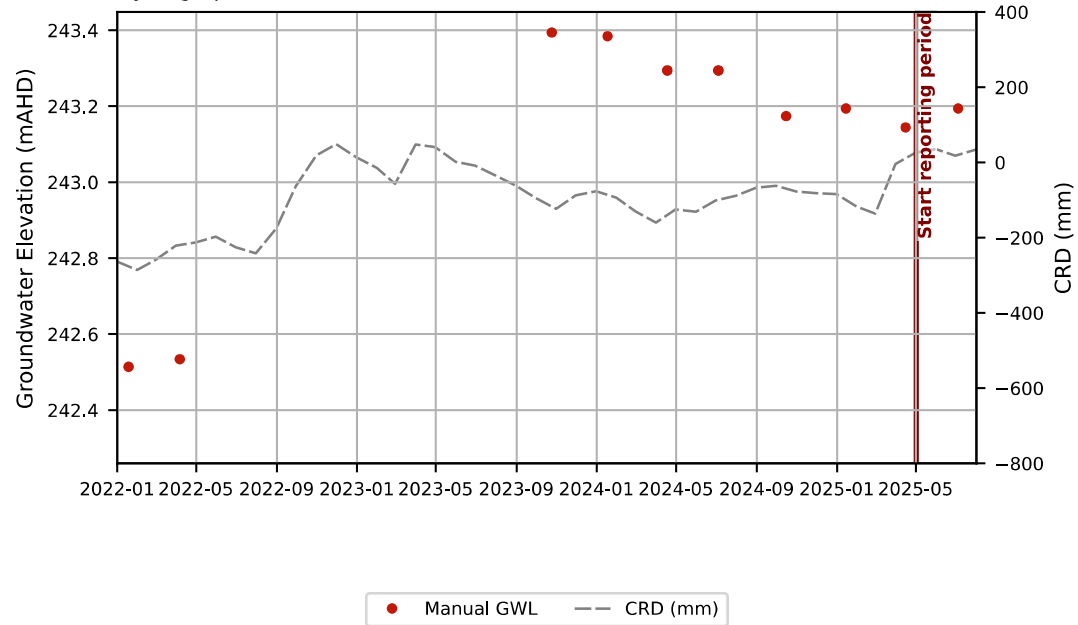




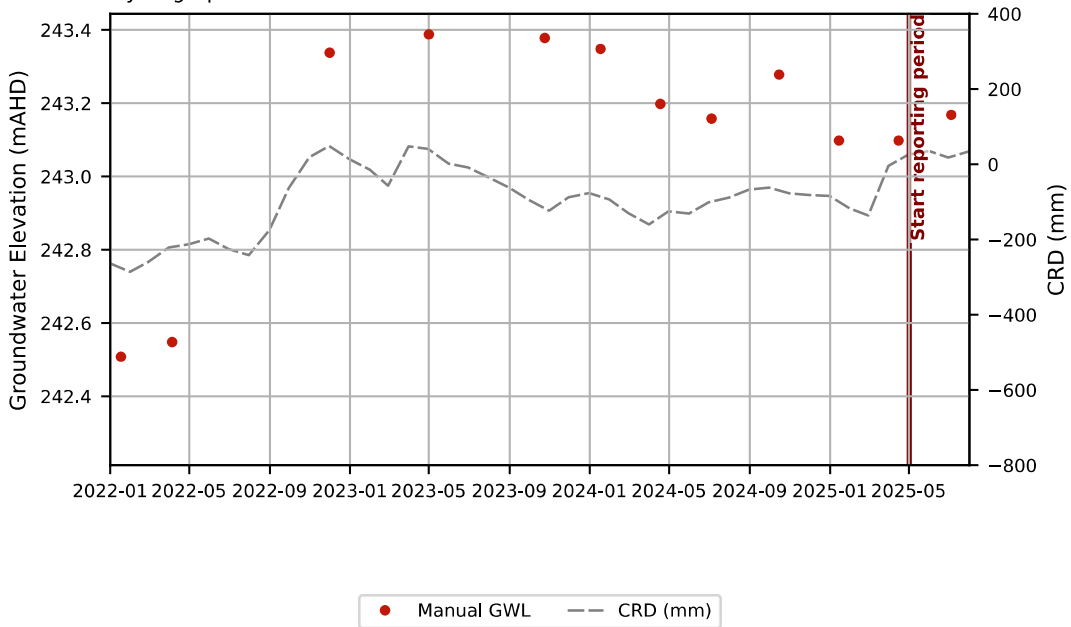
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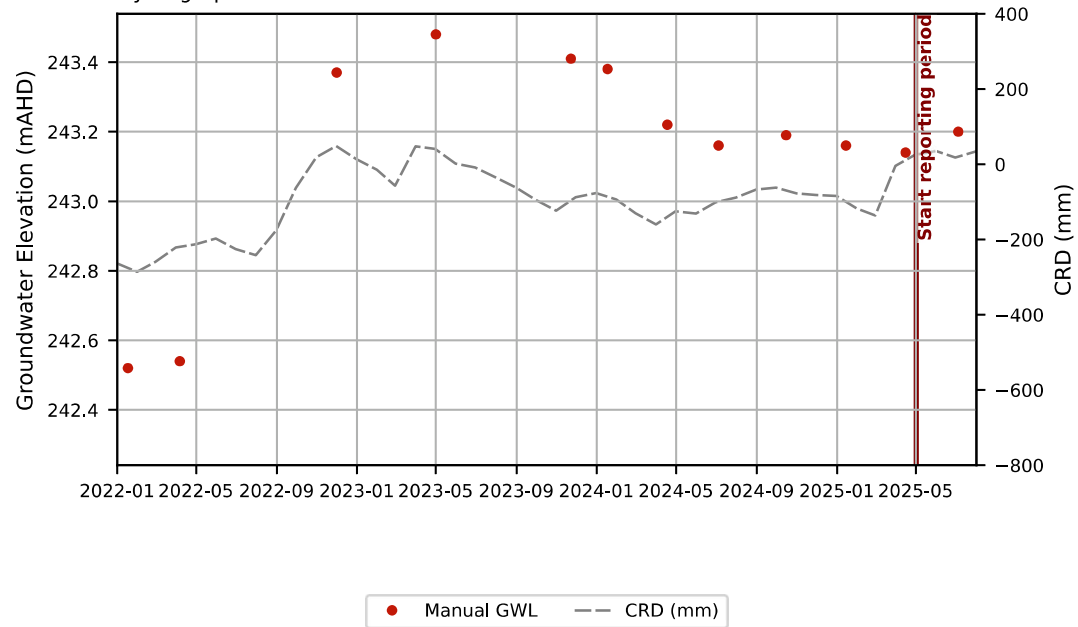
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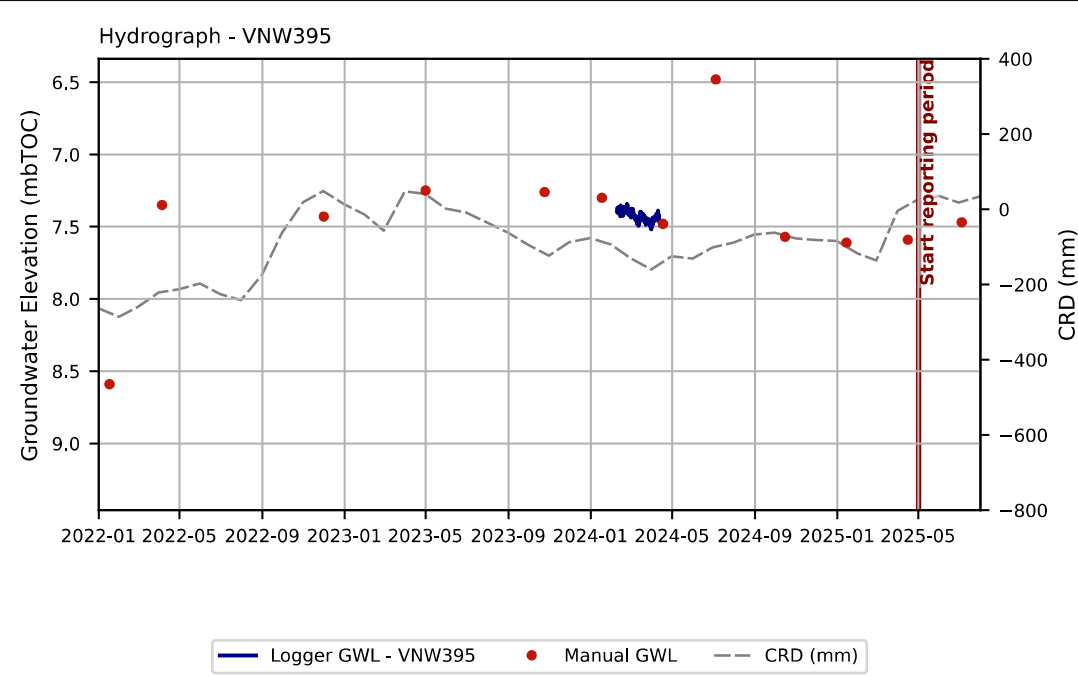
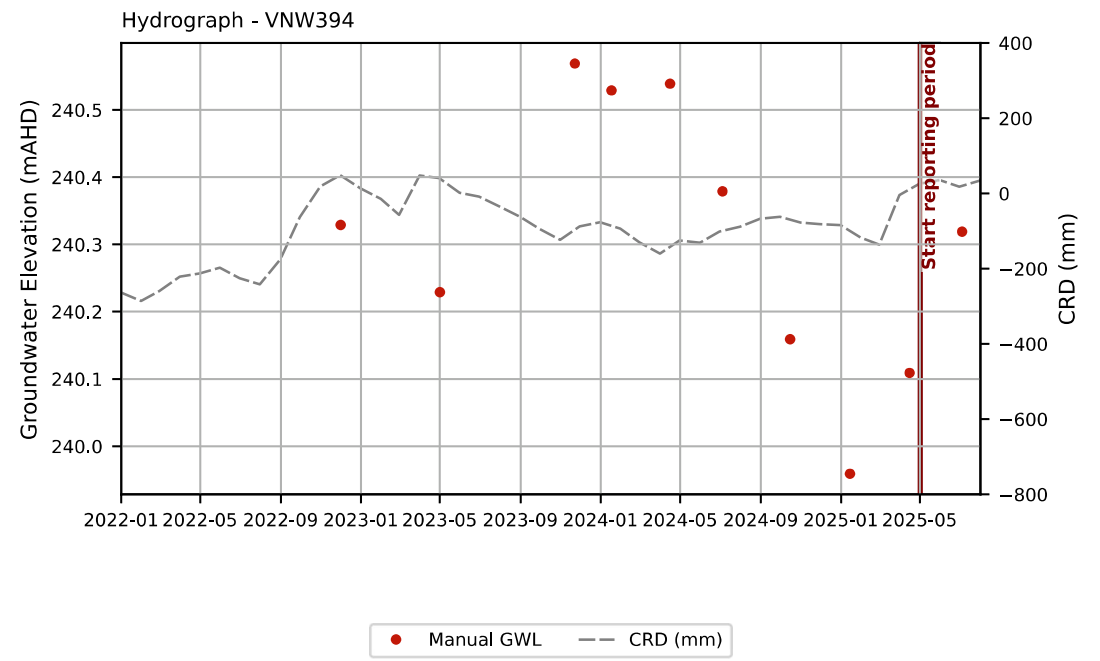
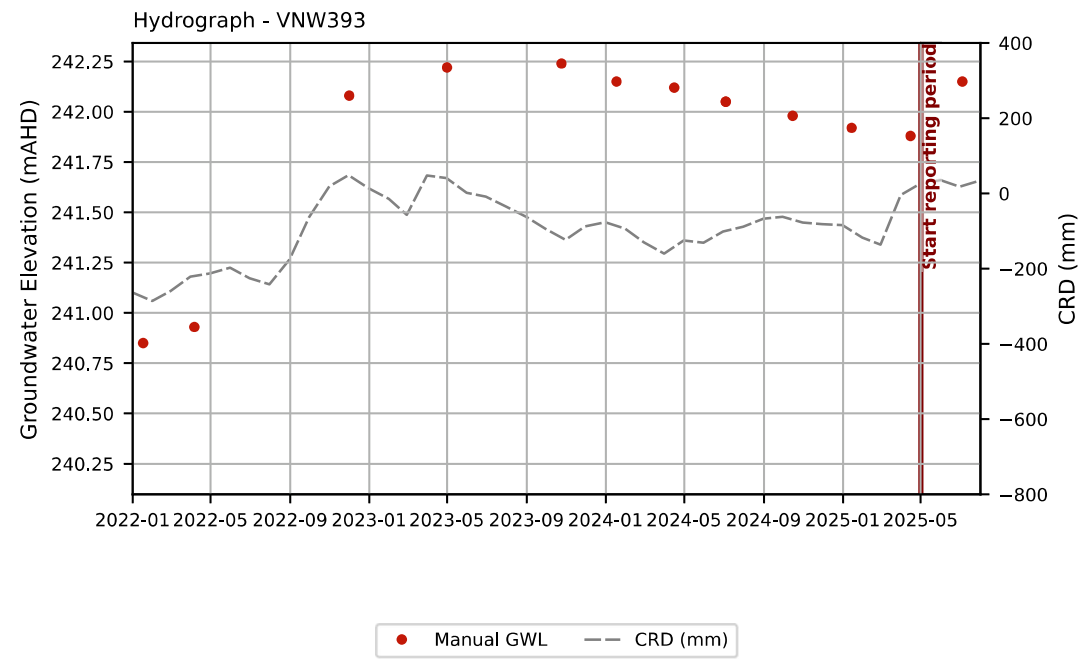


Hydrograph - VNW391

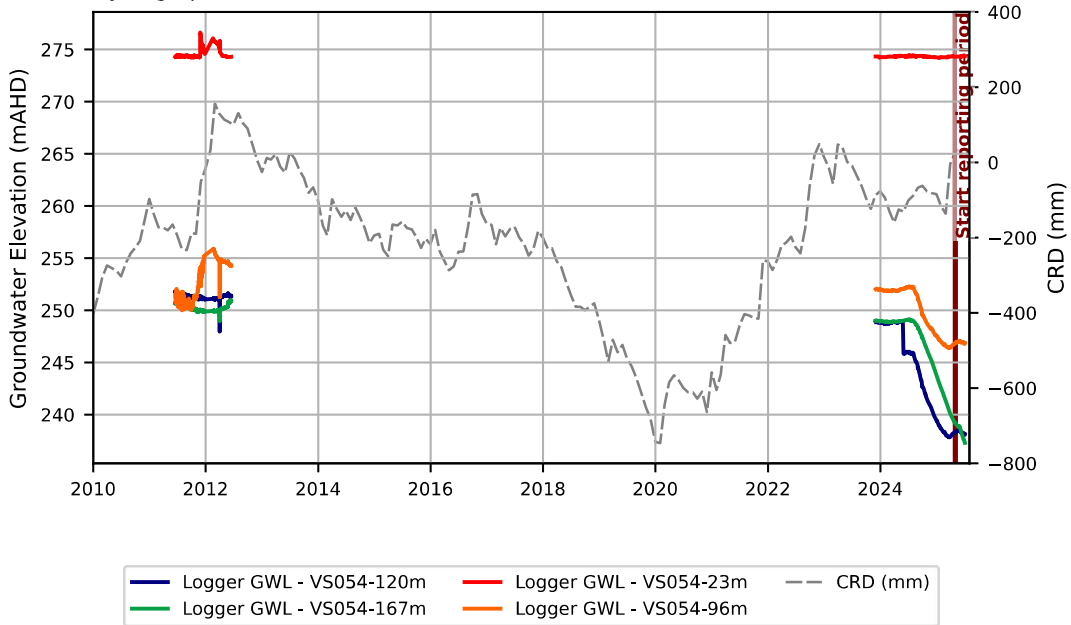


Hydrograph - VNW392

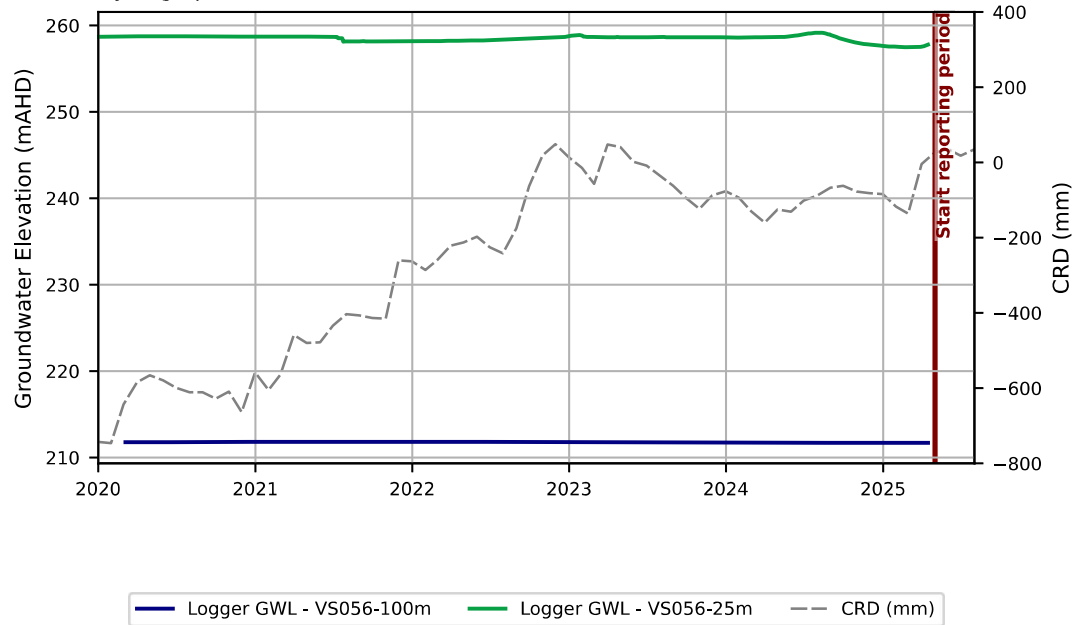




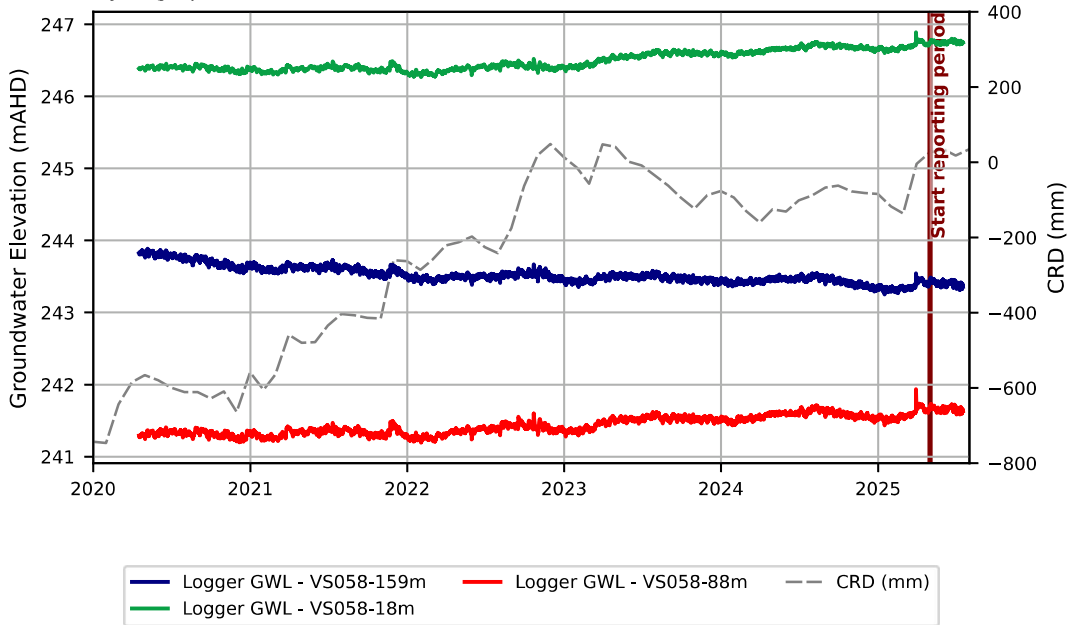
Hydrograph - VS054



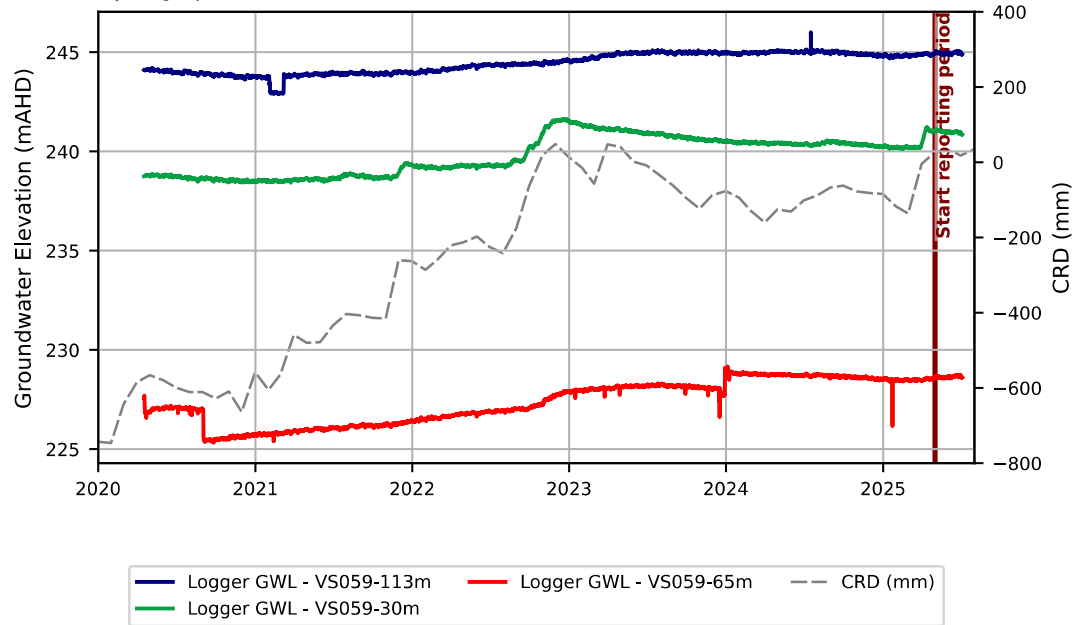
Hydrograph - VS056



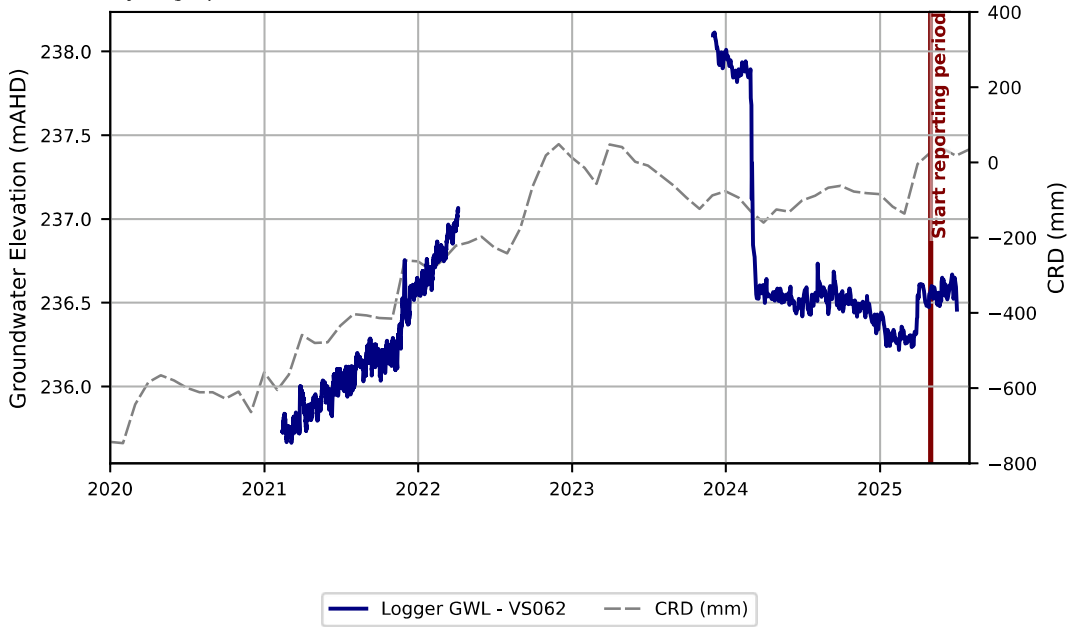
Hydrograph - VS058



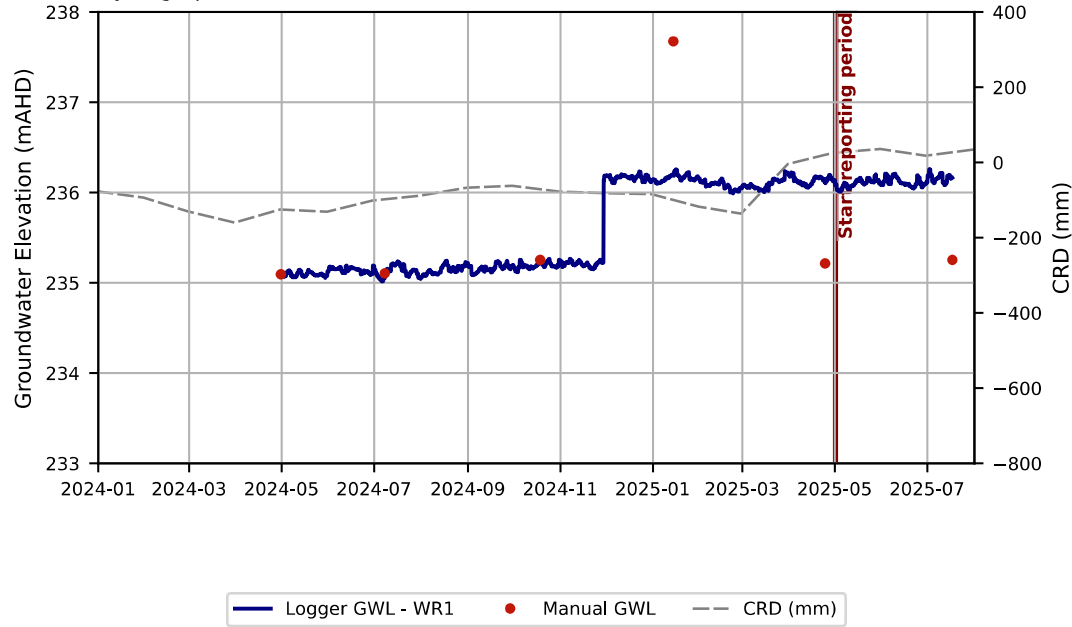
Hydrograph - VS059



Hydrograph - VS062



Hydrograph - WR1



Hydrograph - WR2

