



MEMORANDUM

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Document Number: J-H-NZ0238-010-M-Rev0

Document Title: BOGP Groundwater Site Investigation Memorandum

Hydro Geochem Group Limited (HGG) was retained by Matakanui Gold Limited (MGL) to advance the characterisation of the hydrogeological conditions at the Bendigo-Ophir Gold Project (BOGP) through a site investigation (SI) works programme.

The SI focused specifically on characterisation of (i) shallow conditions expected to be potential contaminant migration pathways from mine waste storage facilities, and (ii) deeper conditions that may be influenced by dewatering of mine voids (e.g., open pit and underground workings).

PURPOSE AND SCOPE

The purpose of this report is to factually document the works completed during the SI and summarise the hydrogeological findings. The scope of work completed for the SI included:

- Drilling and installing 10 monitoring wells.
- Development of monitoring wells.
- Slug testing of monitoring wells.
- Sampling of 14 monitoring wells.
- Drilling and installation of 5 vibrating wire piezometer strings.

SITE INVESTIGATION

Drilling and Installation

The SI field programme was completed 13 July through 13 August 2026, with drilling and installation completed on 7 August 2026. Programme roles were as follows:

- HGG: programme design, in-field training, instrumentation design, analysis and reporting.
- MGL: site logistics, field supervision of drillers, geological logging, well development and slug testing.
- Multiple drilling contractors¹: drilling and installation of instrumentation and headworks.

Figure 1 shows the drilling and installation locations, with a summary of the instrumentation installed provided in Table 1. Drilling for the monitoring wells was completed with Sonic drilling methodology (100 mm size diameter) while for VWP installations, diamond core drilling was used (PQ3 size diameter). Borehole logs are provided in Attachment B.

Table 1: Drilling and installation detail summary.

ID	EASTING	NORTHING	GROUND LEVEL (m RL)	TOTAL DEPTH (m AH)	AZIMUTH	DIP	INSTALLATION	DRILLING METHOD
GW02A	1315634.3	5019267.8	378.9	10.2	-	90	Monitoring well	Sonic
GW02B	1315635.6	5019266.2	379.0	17	-	90	Monitoring well	Sonic
GW02C	1315636.6	5019265.0	379.0	15	-	90	Monitoring well	Sonic
GW03A	1316363.4	5018804.5	413.3	9.26	-	90	Monitoring well	Sonic
GW03B	1316374.2	5018803.7	413.5	7	-	90	Monitoring well	Sonic
GW03C	1316366.0	5018806.0	413.3	10.2	-	90	Monitoring well	Sonic and Diamond*
GW04	1318001.1	5017906.4	570.1	95.3	-	90	VWP	Diamond
GW05	1318251.5	5017905.0	569.7	150	70	50	VWP	Diamond
GW06A	1318473.0	5017956.5	538.4	6	-	90	Monitoring well	Sonic
GW06B	1318474.8	5017956.4	538.4	7.9	-	90	Monitoring well	Sonic
GW06C	1318476.2	5017956.3	538.5	15	-	90	Monitoring well	Sonic
GW13	1317577.1	5017315.7	677.6	100	-	90	VWP	Diamond
GW14	1318218.9	5016927.6	787.3	210.5	220	56	VWP	Diamond
GW19	1319617.3	5015485.6	795.5	9	-	90	Monitoring well	Sonic
GW23	1318451.0	5018209.0	580.7	100	-	90	VWP	Diamond

Note: Coordinate reference system= NZTM; RL = reference level; AH= along hole. *GW03C transitioned from sonic to diamond drilling methodology after hard bedrock was encountered.

¹ Alton's Drilling, Speights Drilling, and SouthDrill.

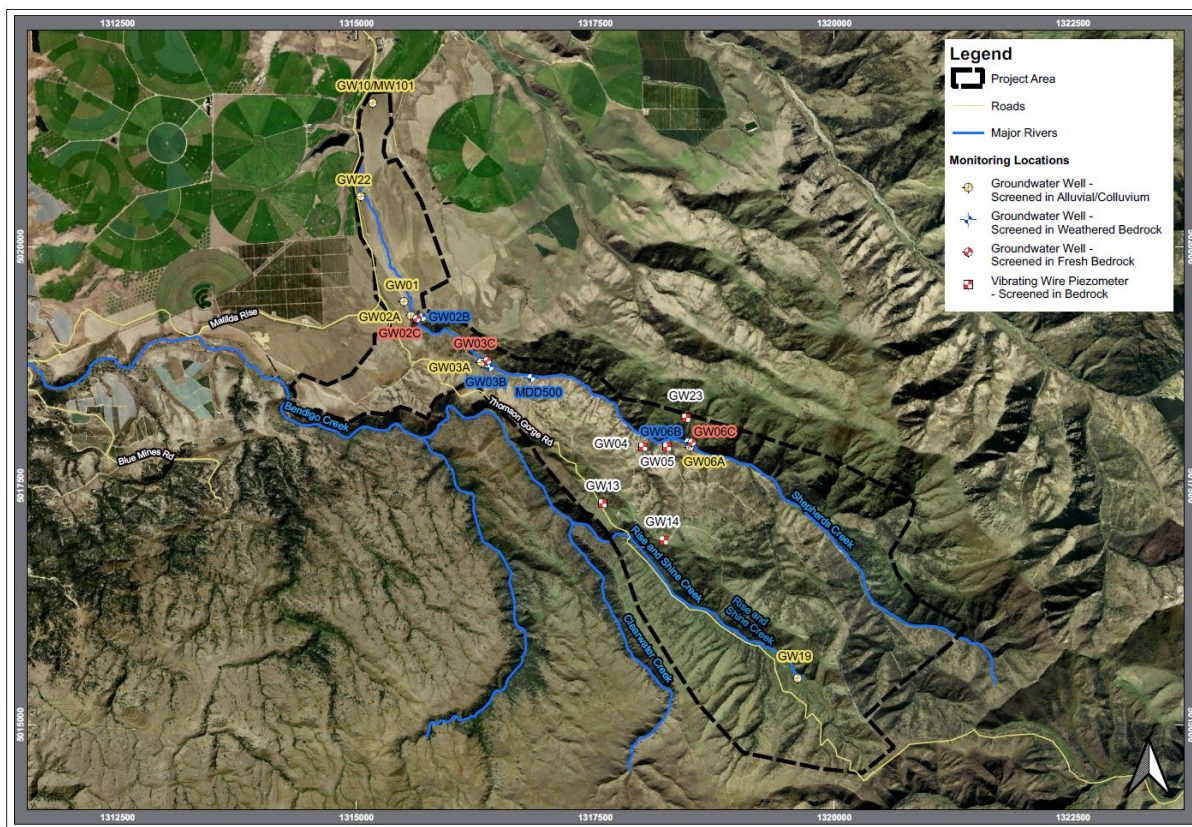


Figure 1: Site investigation overview.

Monitoring Wells

Table 2 summarises the construction details of the monitoring wells installed as part of this SI. The following materials were used to construct the monitoring wells:

- 50 mm PVC with 1 mm aperture machine slotted screens.
- Filter pack around the screen, with a grading range of 0.5 to 2 mm diameter material.
- Bentonite chips were used to provide a seal above the filter pack and fill the borehole annulus to surface.

All monitoring wells were developed by MGL or their contractors using airlift methodology.

Table 2: Monitoring well installation details.

ID	AREA	TOP OF CASING ELEVATION (m RL)	STICKUP (m agl)	SCREEN INTERVAL (m bgl)	SCREENED UNIT	REMARK
GW02A		379.5	0.55	10.2 to 13.2	Alluvium/colluvium	
GW02B		379.5	0.57	15 to 16.7	Weathered Bedrock	
GW02C		379.6	0.59	17.7 to 20.7	Fresh Bedrock	TZ4
GW03A	Shepherds Creek Valley Bottom	413.8	0.53	5.4 to 2.4	Alluvium/colluvium	Partial internal blockage possibly due to joining rivet.
GW03B		414.0	0.48	5.2 to 6.7	Weathered Bedrock	
GW03C		413.8	0.45	15.0 to 18.0	Fresh Bedrock	TZ4
GW06A		539.0	0.53	1.5 to 3.5	Alluvium/colluvium	
GW06B		538.9	0.51	4.2 to 7.2	Weathered Bedrock	
GW06C		539.0	0.57	7.5 to 12.2	Fresh Bedrock	TZ3
GW19	Rise and Shine Valley Bottom	796.0	0.50	5.7 to 8.7	Alluvium/colluvium	

Note: RL = reference level; agl= above ground level, bgl = below ground level.

Vibrating Wire Piezometers

VWPs were installed as strings with three sensors positioned at different depths. Installation details are provided in Table 3. All installations were fully grouted as used GEOKON 45000INS sensors of varying pressure rating. A grout mix of 2 parts water, 1 part cement, and 1/3-part bentonite powder was used.

Table 3: VWP sensor installation details.

BH ID	SENSOR SERIAL NUMBER	UNIT	PRESSURE RATING (kPa)	PLACEMENT DEPTH (m AH)	PLACEMENT ELEVATION (m RL)
GW04	S20393	TZ3	350	53	517.1
	S20457	TZ3	700	73	497.1
	S20458	TZ3	700	92	478.1
GW05	S20061	TZ3	350	54.7	534.5
	S2230879	TZ3	1,000	107.7	500.4
	S2628896	TZ3	1,000	148.7	474.1
GW13	S20664	TZ4	350	30	647.6
	S20640	TZ4	350	61	616.6
	S22231	TZ4	1,000	95	582.6
GW14	S22233	TZ3	1,000	100	731.3
	S22344	TZ3	2,000	172	691.1
	S22345	TZ3	1,000	200	675.4
GW23	S2611255	TZ3	350	29.5	551.2
	S2518921	TZ3	700	63	517.7
	S2230878	TZ3	1,000	96.3	484.4

Note: BH= borehole; AH= along hole; RL = reference level.

Slug Testing

Falling and rising head slug tests were completed by MGL staff on the installed monitoring wells after well development. A solid slug that created a theoretical displacement of 0.32 m (in a nominal 50 mm diameter pipe) was used on all monitoring wells except for GW03A. Here, the solid slug could not be advanced sufficiently due to a PVC pipe connection rivet protruding too far past the pipe internal wall. Therefore, 0.75 L of clean water was used to initiate a falling head test (38 m of theoretical displacement).

Slug tests results were analysed with the Hvorslev (1951) and Bouwer and Rice (1976) solutions in AQTESOLV (v.4.50.002). Analysis of the results are summarised in Table 4 with full reports provided in Appendix C.

Table 4: Slug test analysis results summary.

MW ID	SCREENED UNIT	FHT K (m/s)	RHT K (m/s)	REMARK
GW02A	Alluvium/colluvium	1×10^{-4}	*	Screened across water table. B-R analysis method used with correction for effective well radius based on Bouwer and Rice (1979) with an adopted effective porosity value of the filter pack of 0.3.
GW02B	Weathered Bedrock	*	*	No quantitative analysis performed due to non-ideal test response. Initial rapid response (first 20 seconds) followed by extremely slow decline without full recovery. In addition, recorded displacement (0.374 m) higher than theoretical (0.32 m) Possibly indicative of low hydraulic conductivity or influence of well skin.
GW02C	Fresh Bedrock	1×10^{-5}	*	H analysis method used. Post-test level stabilised at high level and pre-test; possible influence of well skin.
GW03A	Alluvium/colluvium	5×10^{-4}	*	0.75 L water slug used. Screened across water table. B-R analysis method used with correction for effective well radius based on Bouwer and Rice (1979) with an adopted effective porosity value of the filter pack of 0.3.
GW03B	Weathered Bedrock	6×10^{-5}	3×10^{-4}	H analysis method used. Rising Head Test displaced cleaner test response increasing confidence in test result.
GW03C	Fresh Bedrock	4×10^{-8}	*	H analysis method used.
GW06A	Alluvium/colluvium	*	5×10^{-5}	Screened across water table. B-R analysis method used with correction for effective well radius based on Bouwer and Rice (1979) with an adopted effective porosity value of the filter pack of 0.3.
GW06B	Weathered Bedrock	7×10^{-5}	8×10^{-5}	H analysis method used.
GW06C	Fresh Bedrock	5×10^{-8}	*	H analysis method used. Extremely slow response without full recovery. Indicative of low hydraulic conductivity.
GW19	Alluvium/colluvium	1×10^{-6}	*	H analysis method used. Strange test response suggests possible influence from well skin.

Note: MW = monitoring well; FHT=falling head test; RHT=rising head test; H=Hvorslev (1951), B-R= Bouwer and Rice (1976). Tests marked with * did not show a suitable response for analysis.

Groundwater Levels

Recorded groundwater levels in the installed monitoring wells are summarised in Table 5 based on manual readings made prior to slug testing. Groundwater level measurements from the installed VWP's are presented in Table 6

Table 5: Monitoring well groundwater level measurements.

MW ID	AREA	SCREENED UNIT	WATER LEVEL (m btoc)	WATER LEVEL (m bgl)	WATER LEVEL (m RL)	DATE
GW02A	Valley Alluvium	Alluvium/colluvium	11.24	10.69	368.21	11/08/2026
GW02B		Weathered Bedrock	11.5	10.93	368.03	12/08/2026
GW02C		Fresh Bedrock	11.58	10.99	368.02	12/08/2026
GW03A	Shepherd Creek Valley Fill	Alluvium/colluvium	3.11	2.58	410.70	1/08/2026
GW03B		Weathered Bedrock	3.03	2.55	410.99	29/07/2026
GW03C		Fresh Bedrock	1.77	1.32	412.03	1/08/2026
GW06A	Shepherds ELF	Alluvium/colluvium	2.15	1.62	536.80	30/07/2026
GW06B		Weathered Bedrock	2.15	1.64	536.78	30/07/2026
GW06C		Fresh Bedrock	2.25	1.68	536.79	1/08/2026
GW19	SRX ELF	Alluvium/colluvium	4.94	4.44	791.09	13/08/2026

Note: MW = monitoring well; btoc = below top of casing; bgl = below ground level; RL = reference level.

Table 6: VWP groundwater level measurements.

BH ID	SENSOR SERIAL NUMBER	PRESSURE HEAD (kPa)	HYDRAULIC HEAD (m RL)	DATA DATE RANGE
GW04	S20393	49.5	522.2	16/07/2026 to 21/07/2026
	S20457	73.8	504.7	
	S20458	115.3	489.9	
GW05	S20061	18.5	529.7	26/07/2026 to 28/07/2026
	S2230879	88.4	496.2	
	S2628896	151.9	471.2	
GW13	S20664	55.1	653.2	4/08/2026 to 7/08/2026
	S20640	114.5	628.3	
	S22231	155.8	598.5	
GW14	S22233	66.7	711.2	6/08/2026 to 7/08/2026
	S22344	135.6	658.5	
	S22345	164.4	638.2	
GW23	S2611255	4.0	566.2	11/08/2026 to 17/08/2026
	S2518921	17.2	528.6	
	S220878	159.1	500.6	

Note: reported values represent median from range of data. RL = reference level.

Groundwater Quality Monitoring

Groundwater quality monitoring was conducted between 18 June and 17 August at 14 monitoring wells including the 10 new monitoring wells detailed in Table 2 and existing monitoring bores GW01, GW10, and MDD500. Table 7 summarises the water quality analysis that was undertaken. Tabulated groundwater quality monitoring results are provided in **Attachment C**.

Table 7: Groundwater quality analysis.

ANALYTE CATEGORY	FRACTION	ANALYSIS
Physicochemical parameters	N/A	pH, electrical conductivity (EC), total dissolved solids (TDS)
Hardness	N/A	Calcium (Ca), magnesium (Mg), soluble, and total hardness
Major cations and anions	Total and dissolved	Ca, Mg, sodium (Na), potassium (K)
	Dissolved	Chloride (Cl), sulfate (SO ₄)
	Total	Fluoride (F)
Inorganics	Total	Bicarbonate (HCO ₃), cyanide (CN)
Nutrients	Total	Total nitrogen (TN), Kjeldahl nitrogen (TKN), total phosphorus (TP)
	Dissolved	Nitrate (NO ₃ -N), nitrite (NO ₂ -N) ammonia (NH ₃ -N), TP
Metals and metalloids	Total and dissolved	Aluminium (Al), antimony (Sb), arsenic (As), barium (Ba) ¹ , beryllium (Be) ¹ , bismuth (Bi) ¹ , boron (B), cadmium (Cd), cesium (Ce) ¹ , total chromium (Cr), cobalt (Co), copper (Cu), germanium (Ge) ¹ , iron (Fe), lanthanum (La) ¹ , lead (Pb), lithium (Li) ¹ , manganese (Mn), mercury (Hg), molybdenum (Mo), nickel (Ni) ¹ , rubidium (Rb), selenium (Se), strontium (Sr), thallium (Th) ¹ , tin (Sn) ¹ , titanium (Ti) ¹ , uranium (U), vanadium (V) ¹ , yttrium (Y) ¹ , zinc (Zn)
	Total	Silver (Ag) ¹

1. Monitored at previously existing monitoring bores only.

INVESTIGATION FINDINGS

The following sections summarise the investigation findings with respect to the site-specific geology, hydraulic properties, water level, and water quality for the shallow alluvial aquifer and the underlying weathered bedrock and fresh bedrock aquifers.

Shallow Alluvial/Colluvial Conditions

Material Encountered

The following observations are made based on the geological logging:

- Within the Shepherds Creek valley bottom (i.e., GW02, GW03, GW06):
 - Alluvium/colluvium comprised silty and clayey sand and gravel. Thickness typically ranged between 5 to 6 m at the GW03 and GW06 locations but was deeper at the GW02 (15 to 16 m) location where the bedrock surface drops off towards the Lindis River.
 - Weathered bedrock was relatively thin, ranging between 1 to 3 m thickness.
 - The Thompson Gorge Fault was encountered at the bedrock surface at GW03 with a typical fault core of clay gouge.
- On the valley sides of the Shepherds Creek valley (i.e., GW04, GW05, GW13, GW14, and GW23):
 - Alluvium ranged in thickness between absent to up to 7.5 m.
 - Weathered bedrock was thickest closer to the valley bottom (i.e., GW04 and GW05), ranging between 19 and 37 m, and thinner further away at 4 to 9 m (i.e., GW13, GW14, and GW23).
- In the Rise and Shine Creek valley bottom (i.e., GW19):
 - Alluvium comprised gravel to a depth of 7.5 m.
 - No weathered bedrock was encountered at this location, with the material transitioning from alluvium straight into unweathered bedrock.

Hydraulic Properties

The following observations are made from the slug testing analysis results for each unit tested:

- Alluvium/colluvium (n=4), hydraulic conductivity (K) ranged between 1×10^{-6} to 5×10^{-4} m/s, with a geometric mean of 4×10^{-5} m/s. These results are consistent with silty sand and gravel unconsolidated deposits.
- Weathered bedrock (n=2), K ranged between 7×10^{-5} to 3×10^{-4} m/s. These results, although from a limited sample size, indicate zones of elevated K are present, at least locally, within weathered bedrock. Note that the test at GW02B suggested lower K (likely $< 10^{-7}$ m/s) than these test results with a consistently slow (and non-ideal) test response. Overall results suggest weathered bedrock K can be highly variable.

- Fresh Bedrock (n=3), K ranged between 4×10^{-8} to 1×10^{-5} m/s. Two of the slug test results (GW03C and GW06C) were 5×10^{-8} m/s or lower while only one (GW02C) was higher at 1×10^{-5} m/s. Consistent with packer testing completed by EGL (2025), slug test data suggest that fresh bedrock K is generally low, but can be locally elevated.

Groundwater Levels

Shepherds Creek valley bottom, the depth to the water table is in the region of 1.6-2.6 m but increases at the edge of the valley to 11.2 m depth at GW02 where the bedrock surface drops off towards the Lindis River.

As expected, horizontal gradients are consistent with the valley geometry, with hydraulic head decreasing down the valley from GW06 wells to GW02 wells, indicating groundwater flow down valley. This is consistent with previous data collected by EGL (2025). The following vertical gradients were observed:

- At GW02 monitoring wells, a slight downwards gradient was observed with a 20 cm difference between GW02A and deeper wells.
- At GW03 monitoring wells, a strong upwards gradient was observed. In particular, the deepest monitoring well (GW03C) shows the highest hydraulic head at the location (1.3 m above GW03A). The cause is interpreted to be due to the presence of the Thompson Gorge Fault acting as a barrier between the GW03C and GW03A and B.
- At GW06 monitoring wells, hydraulic head differences were only a 1 to 2 cm and within the range of expected measurement uncertainty. Overall, no strong vertical gradient was observed between monitoring wells.

Water Quality – Alluvium/Colluvium

Water quality results from the monitoring wells in the alluvium/colluvium are summarised as follows:

- Groundwater is categorised as near neutral (pH 7.3 – 7.7), fresh (EC 265 – 752 $\mu\text{S}/\text{cm}$), and hard (total and soluble hardness >100 mg CaCO_3/L). Hardness is dominated by calcium.
- Groundwater is dominated by sulfate (3.3 – 102 mg/L) and bicarbonate (142 – 296 mg/L) as opposed to chloride (2.3 – 14.8 mg/L).
- Total and dissolved metal and metalloid concentrations are generally below New Zealand drinking water maximum acceptable values (DW MAV) and ANZECC irrigation water (IW) and livestock drinking water guidelines (LDWG) with the exception of the following:
 - Total Al exceeded the DW MAV (1,000 $\mu\text{g}/\text{L}$) in 5/7 monitoring wells and the IW/LDWG (5,000 $\mu\text{g}/\text{L}$) in GW02A with concentrations ranging from 35 $\mu\text{g}/\text{L}$ (GW03A) to 11,700 $\mu\text{g}/\text{L}$ (GW02A).
 - Similarly, total Fe exceeded the DW MAV (1,500 $\mu\text{g}/\text{L}$) in 5/7 monitoring wells and the IW (5,000 mg/L) in GW02A with concentrations ranging from 76 $\mu\text{g}/\text{L}$ (GW03A) to 19,900 $\mu\text{g}/\text{L}$ (GW02A).

- All groundwater monitoring wells exceeded the aesthetic DW MAV for Zn ($3 \mu\text{g/L}$) with concentrations ranging from $3 \mu\text{g/L}$ (GW03A) to $43 \mu\text{g/L}$ (GW010).
- Additionally, GW02A exceeded the DW MAV for total As ($32.1 \mu\text{g/L}$).
- All other water quality parameters for monitoring wells within the alluvium/colluvium were below the DW MAV, IW, and LDWG.

Deeper Weathered and Fresh Bedrock Conditions

Material Encountered

Geological logging of deep boreholes was consistent with previous work (e.g., EGL, 2025) encountering Otago Schist consisting of TZ3 and TZ4, separated by the TGF. All boreholes encountered frequent small-scale shear and fault zones common across the BOGP area.

Groundwater Levels

All VWP strings displayed downward vertical gradients. Given the location of the VWP boreholes on valley sides, this is to be expected in lower K bedrock valley systems where groundwater flow is largely topographically controlled (i.e. recharge on valley sides with downwards vertical gradients, discharge in valley bottom).

Hydraulic head readings at shallow VWPs on valley sides such as GW05 (529.7m RL) and GW14 (711.2 m RL) were higher than the adjacent creek elevations, approximately and 525 m RL for Shepherds Creek 710 m RL for Rise and Shine Creek. It is noted that VWP pressure tends to underestimate water table position in downwards gradient settings so the actual water table surface elevation at these locations is likely higher than reported. Again, this is consistent with topographically controlled mountainous groundwater flow regimes with flow generally concentrating in valley bottoms.

Groundwater Quality – Weathered and Fresh Bedrock

Water quality results from the monitoring wells in the shallower weathered bedrock are summarised as follows:

- Groundwater is categorised as near neutral (pH 7.2 – 7.6), fresh (EC 504 – 834 $\mu\text{S/cm}$), and hard (total and soluble hardness $>200 \text{ mg CaCO}_3/\text{L}$). Hardness and major cations are dominated by balanced proportions of calcium and magnesium.
- Groundwater is dominated by bicarbonate (218 – 293 mg/L) as the major anion with moderate sulfate (28.8 – 148 mg/L) and lesser to chloride (5.1 – 12.8 mg/L).
- With the exception of total Zn (4 – 16 $\mu\text{g/L}$), which exceeded the aesthetic DW MAV ($3 \mu\text{g/L}$) in all monitoring wells, total and dissolved metal and metalloid concentrations were below the DW MAV, IW, and LDWG.

Water quality results from the monitoring wells in the underlying fresh bedrock are summarised as follows:

- Groundwater is categorised as near neutral (pH 7.7 – 7.8), fresh (EC 454 – 769 $\mu\text{S/cm}$), and hard (total and soluble hardness $>130 \text{ mg CaCO}_3/\text{L}$). Hardness and major cations are dominated by calcium.

- Groundwater is dominated by bicarbonate (182 – 279 mg/L) as the major anion with moderate sulfate (33.8 – 73.8 mg/L) and lesser to chloride (6.7 – 8.2 mg/L).
- With the exception of total Mo (3.1 – 46.8 µg/L), which exceeded the IW (10 µg/L) in 2/3 monitoring wells, and Zn (5 – 153 µg/L), which exceeded the aesthetic DW MAV (3 µg/L) in all monitoring wells, total and dissolved metal and metalloid concentrations were below the DW MAV, IW, and LDWG.

Findings Summary

Field data collected as part of the SI are consistent with interpretations made in HGG (2026a) for likely migration pathways for unrecovered mine waste storage facility (MWSF) seepage, namely:

The hydrogeological setting of the BOGP is one of topographically driven flow system of low K schist bedrock, with higher K units (i.e., alluvium/colluvium and weathered bedrock) near surface.

Groundwater flow is more from valley sides to the creek valley bottoms, than along the valley axis down valley (i.e., generally consistently with surface water flow directions).

Valley sides have downwards vertical gradients and valley bottoms have upwards or neutral gradients, except for where the bedrock surface drops off towards the Lindis River (i.e., at GW02).

Comparing investigation findings to model inputs evaluating seepage collection (HGG, 2026b):

Groundwater levels near the Shepherds Engineered Landforms (ELF) seepage collection system (e.g., GW06) are relatively shallow, as adopted in the modelling.

Weathered bedrock was found to be higher K than modelling adopted values (7×10^{-5} m/s or higher compared to 5×10^{-5} m/s). However, planned primary seepage collection systems include a low K toe barrier that will cutoff weathered bedrock flow paths (HGG, 2026a) meaning the difference in values is unlikely to be material for seepage collection.

Fresh bedrock K was similar to low K scenarios adopted for modelling. These scenarios resulted in the some of the lowest rates of unrecovered seepage (<5%) for the ELF with toe barriers (i.e., Western ELF and Shepherds ELF). Such low K bedrock will act to keep seepage migration pathways shallow facilitating high levels of seepage collection.

Overall, available data suggest MWSF seepage migration in groundwater will stay relatively shallow within the Shepherds Creek and Rise and Shine Creek valleys meaning high levels of seepage collection can be expected. As the bedrock surface drops off and depths to water table increase towards the Lindis River, high levels seepage collection will become more challenging. As such, seepage collection should be prioritised within the valley systems where conditions are more favourable (as proposed by HGG, 2026a).

Current groundwater quality prior to the development of the BOGP (i.e., current conditions) show exceedances of Al, As, Fe, Mo, and Zn. Ongoing monitoring is recommended to confirm these results.

CLOSING REMARKS

Please do not hesitate to contact Ryan Burgess at +64 21 284 3999 or ryan.burgess@hydrogeochem.com.au should you wish to discuss this memorandum in greater detail.

Attachments: Attachment A – Borehole Logs
Attachment B – Slug Test Analysis
Attachment C – Groundwater Quality Monitoring.

REFERENCES

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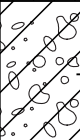
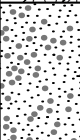
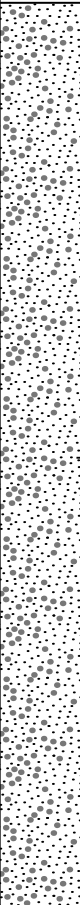
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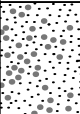
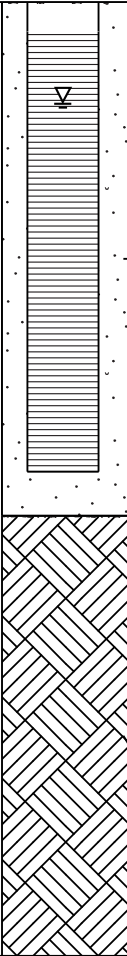
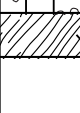
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ATTACHMENT A – BOREHOLE LOGS

PROJECT NUMBER J-H-NZ0238	DRILLING DATE 28 Jul 2026 - 29 Jul 2026	COORDINATES 1315634.3, 5019267.8
PROJECT NAME BOGP GW Consenting Support	TOTAL DEPTH 16.5 m	COORD SYS NZTM (2000)
CLIENT Matakani Gold Limited	DIAMETER 100 mm	COMPLETION 29 Jul 2026
DRILLING COMPANY South Drill	CASING 50 mm PVC	SURFACE ELEVATION 378.9 m RL
	SCREEN 10.2- 13.2 mbgl (1 mm aperture)	WELL TOC 379.5 m RL

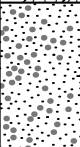
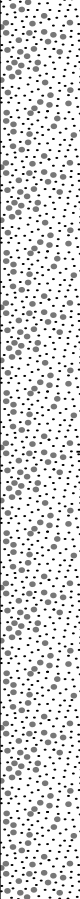
COMMENTS: Well developed by MGL and contractors. Coordinates and elevation based on geodetic survey by MGL.	LOGGED BY T. Campbell CHECKED BY R. Burgess
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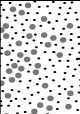
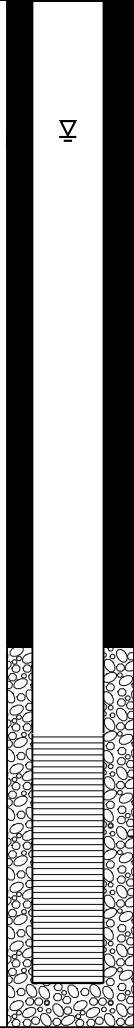
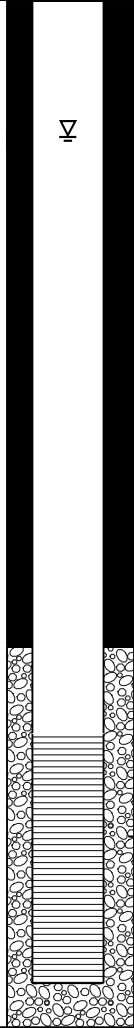
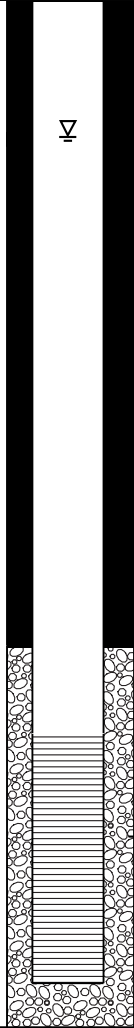
Depth (m)	Drilling Method	Graphic Log	Lithology	Installation
0.5	Sonic (100 mm)		Organic Soil, brown, Very Soft, Wet, top soil with gravel 2-10mm	
1			Clay, brown, Stiff, Moist, clay and gravel secounday 2-5mm	
1.5				
2			Sand, brown, Stiff, moist, 2nd gravel secondary 2-5mm	
2.5				
3			Lost core	
3.5				
4			Sand, brown, stiff, moist, 2nd gravel secounday 2-5mm	
4.5				
5				
5.5				Bentonite chip seal (0 - 9.6 m)
6				
6.5				
7				
7.5				
8				
8.5				
9				
9.5				
10				Filter pack (9.6 - 13.5 m)

Depth (m)	Drilling Method	Graphic Log	Lithology	Installation
10.5				 Filter pack (9.6 - 13.5 m) Bentonite/grout (13.5 -16.5 m)
11			Gravel, brown, Stiff, Moist, 2nd sand; gravel clast 2-30mm	
11.5			Silt, brown, Stiff, Moist, 2nd gravel secounday 2-5mm	
12				
12.5				
13				
13.5				
14				
14.5				
15				
15.5				
16				
16.5			TZ4, moderately weathered, grey.	
16.5			Termination Depth at: 16.5 m. Planned depth (5 m).	
17				
17.5				
18				
18.5				
19				
19.5				
20				
20.5				
21				
21.5				
22				

PROJECT NUMBER J-H-NZ0238	DRILLING DATE 28 Jul 2026 - 28 Jul 2026	COORDINATES 1315635.6, 5019266.2
PROJECT NAME BOGP GW Consenting Support	TOTAL DEPTH 17 m	COORD SYS NZTM (2000)
CLIENT Matakanaui Gold Limited	DIAMETER 100 mm	COMPLETION 28 Jul 2026
DRILLING COMPANY South Drill	CASING 50 mm PVC	SURFACE ELEVATION 379.0 m RL
	SCREEN 15- 16.7 mbgl (1 mm aperture)	WELL TOC 379.5 m RL

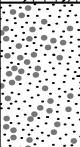
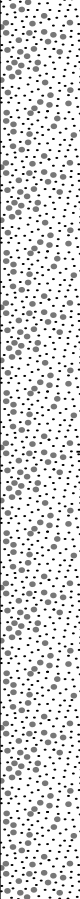
COMMENTS: Well developed by MGL and contractors. Coordinates and elevation based on geodetic survey by MGL.	LOGGED BY T. Campbell CHECKED BY R. Burgess
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Depth (m)	Drilling Method	Graphic Log	Lithology	Installation
0.5	Sonic (100 mm)		Organic Soil, brown, Very Soft, Wet, top soil with gravel 2-10mm	
1			Clay, brown, Stiff, Moist, clay and gravel secounday 2-5mm	
1.5				
2			Sand, brown, Stiff, moist, 2nd gravel secondary 2-5mm	
2.5				
3			Lost core	Bentonite chip seal (0 - 14.4 m)
3.5				
4			Sand, brown, stiff, moist, 2nd gravel secounday 2-5mm	
4.5				
5				
5.5				
6				
6.5				
7				
7.5				
8				
8.5				
9				
9.5				
10				

Depth (m)	Drilling Method	Graphic Log	Lithology	Installation
10.5				 Water Level: 11.50 m BTOC (12/08/2026) Bentonite chip seal (0 - 14.4 m) Filter pack (14.4 - 17 m)
11			Gravel, brown, Stiff, Moist, 2nd sand; gravel clast 2-30mm	
11.5			Silt, brown, Stiff, Moist, 2nd gravel secounday 2-5mm	
12				
12.5				
13				 Water Level: 11.50 m BTOC (12/08/2026) Bentonite chip seal (0 - 14.4 m) Filter pack (14.4 - 17 m)
13.5				
14				
14.5				
15			TZ4, moderately weathered, grey.	
15.5				 Water Level: 11.50 m BTOC (12/08/2026) Bentonite chip seal (0 - 14.4 m) Filter pack (14.4 - 17 m)
16			TZ4, unweathered schist, grey.	
16.5				
17			Termination Depth at: 17 m. Planned depth (10 m).	
17.5				
18				
18.5				
19				
19.5				
20				
20.5				
21				
21.5				
22				

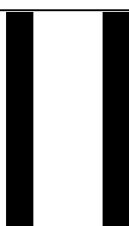
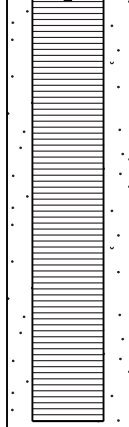
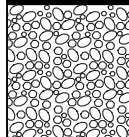
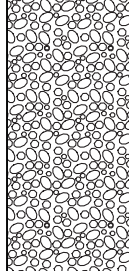
PROJECT NUMBER J-H-NZ0238	DRILLING DATE 26 Jul 2026 - 27 Jul 2026	COORDINATES 1315636.6, 5019265.0
PROJECT NAME BOGP GW Consenting Support	TOTAL DEPTH 21 m	COORD SYS NZTM (2000)
CLIENT Matakanaui Gold Limited	DIAMETER 100 mm	COMPLETION 27 Jul 2026
DRILLING COMPANY South Drill	CASING 50 mm PVC	SURFACE ELEVATION 379.0 m RL
	SCREEN 17.7 - 20.7 mbgl (1 mm aperture)	WELL TOC 379.6 m RL

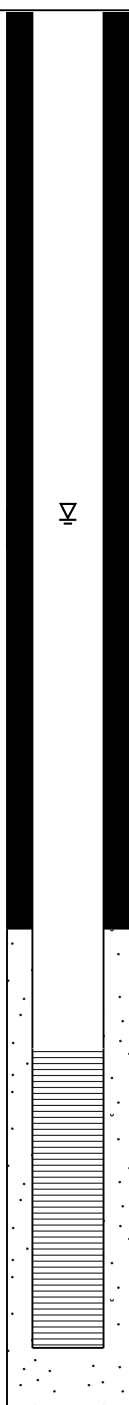
COMMENTS: Well developed by MGL and contractors. Coordinates and elevation based on geodetic survey by MGL.	LOGGED BY T. Campbell CHECKED BY R. Burgess
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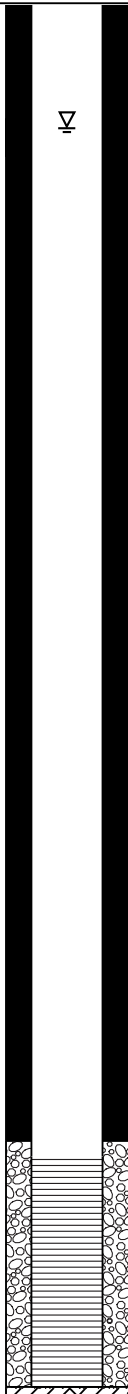
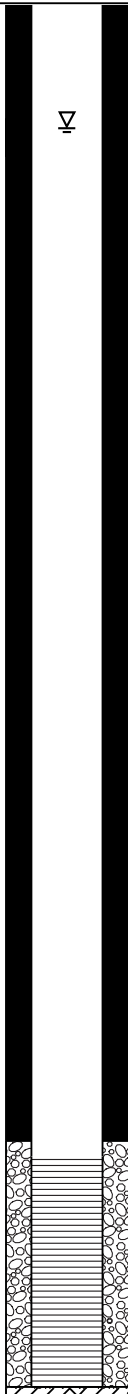
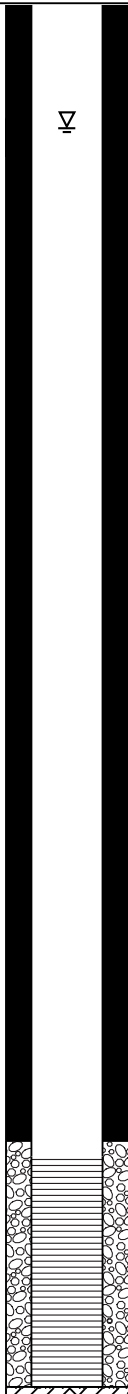
Depth (m)	Drilling Method	Graphic Log	Lithology	Installation
0.5	Sonic (100 mm)		Organic Soil, brown, Very Soft, Wet, top soil with gravel 2-10mm	
1			Clay, brown, Stiff, Moist, clay and gravel secounday 2-5mm	
1.5				
2			Sand, brown, Stiff, moist, 2nd gravel secondary 2-5mm	
2.5				
3			Lost core	Bentonite chip seal (0 - 17.1 m)
3.5				
4			Sand, brown, stiff, moist, 2nd gravel secounday 2-5mm	
4.5				
5				
5.5				
6				
6.5				
7				
7.5				
8				
8.5				
9				
9.5				
10				



Depth (m)	Drilling Method	Graphic Log	Lithology	Installation
10.5				Water Level: 11.58 m BTOC (12/08/2026) Bentonite chip seal (0 - 17.1 m) Filter pack (17.1 - 21 m)
11			Gravel, brown, Stiff, Moist, 2nd sand; gravel clast 2-30mm	
11.5			Silt, brown, Stiff, Moist, 2nd gravel secounday 2-5mm	
12				
12.5				
13				
13.5				
14				
14.5				
15			TZ4, moderately weathered, brown.	
15.5				
16				
16.5				
17			TZ4, unweathered schist, grey.	
17.5				
18				
18.5				
19				
19.5				
20				
20.5				
21			Termination Depth at: 21 m. Planned depth (15 m).	
21.5				
22				

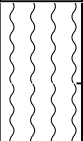
PROJECT NUMBER J-H-NZ0238		DRILLING DATE 16 Jul 2026 - 17 Jul 2026		COORDINATES 1316363.4, 5018804.5	
PROJECT NAME BOGP GW Consenting Support		TOTAL DEPTH 9.26 m		COORD SYS NZTM (2000)	
CLIENT Matakanui Gold Limited		DIAMETER 100 mm		COMPLETION 17 Jul 2026	
DRILLING COMPANY South Drill		CASING 50 mm PVC		SURFACE ELEVATION 413.3 m RL	
		SCREEN 2.4 - 5.4 mbgl (1 mm aperture)		WELL TOC 413.8 m RL	
COMMENTS: Well developed by MGL and contractors. Coordinates and elevation based on geodetic survey by MGL.				LOGGED BY T. Campbell CHECKED BY R. Burgess	
Depth (m)	Drilling Method	Graphic Log	Lithology	Installation	
0.5	Sonic (100 mm)		Top Soil: Brown, moderate to no plasticity, loose to dense soil, dry. Clayey sand from 0.4 to 1.3 m and gravel from 1.3 to 1.5 m.		
1					
1.5			Clay coarse sand: Light brown, moderate plasticity, dense, dry.		
2					
2.5			Sand gravels: Light brown, non-plastic, loose, dry.		
3			Clay coarse sand gravels: Light brown, high plasticity, very soft, wet.		
3.5					
4			Clay sand: Light brown, high plasticity, very soft, moist.		
4.5			Gravels clay: Light brown, non-plastic to low plasticity, loose to hard ground, moist. Possibly base of soil.		
5			Thomson Gorge Fault: Rust orange, highly weathered, weak rock.		
5.5					
6					
6.5					
7					
7.5			Lost Core		
8					
8.5			Thomson Gorge Fault: Grey, unweathered, weak rock.		
9					
9.5			Termination Depth at: 9.28 m. Planned depth (10 m).		

PROJECT NUMBER J-H-NZ0238		DRILLING DATE 20 Jul 2026	COORDINATES 1316374.2, 5018803.7	
PROJECT NAME BOGP GW Consenting Support		TOTAL DEPTH 7 m	COORD SYS NZTM (2000)	
CLIENT Matakanui Gold Limited		DIAMETER 100 mm	COMPLETION 20 Jul 2026	
DRILLING COMPANY South Drill		CASING 50 mm PVC	SURFACE ELEVATION 413.5 m RL	
		SCREEN 5.2 - 6.7mbgl (1 mm aperture)	WELL TOC 414.1 m RL	
COMMENTS: Well developed by MGL and contractors. Coordinates and elevation based on geodetic survey by MGL.			LOGGED BY T. Campbell CHECKED BY R. Burgess	
Depth (m)	Drilling Method	Graphic Log	Lithology	Installation
0.5	Sonic 100 mm		Top Soil: Brown, moderate to no plasticity, dry, Clayey sand from 0.4 to 1.3 m and gravel from 1.3 to 1.5 m.	 Bentonite chip (0 - 4.6 m) Water level: 3.03 m BTOC (29/07/2026) Filter pack (4.6 - 7 m)
1				
1.5			Clay coarse sand: Light brown, moderate plasticity, dense, dry.	
2				
2.5			Sand gravel: Light brown, non-plastic, loose, dry.	
3			Clay coarse sand gravels: Light brown, high plasticity, very soft, moist.	
3.5				
4			Clay sand: Light brown, high plasticity, very soft, wet.	
4.5			Gravels clay: Light brown, low plasticity, loose, wet.	
			Gravels clay: Light brown, non-plastic, hard, moist. Possibly base of soil.	
5			Thomson Gorge Fault: Orange, weak.	
5.5				
6			Thompson George Fault: Orange/grey, weak.	
6.5				
7			Termination Depth at: 7 m. Planned depth (10 m).	

PROJECT NUMBER J-H-NZ0238		DRILLING DATE 14 Jul 2026 - 15 Jul 26		COORDINATES 1316366.0, 5018806.0	
PROJECT NAME BOGP GW Consenting Support		TOTAL DEPTH 18.18 m		COORD SYS NZTM (2000)	
CLIENT Matakanui Gold Limited		DIAMETER 100 mm		COMPLETION 15 Jul 2026	
DRILLING COMPANY South Drill		CASING 50 mm PVC		SURFACE ELEVATION 413.3 m RL	
		SCREEN 15 - 18 mbgl (1 mm aperture)		WELL TOC 413.8 m RL	
COMMENTS: Well developed by MGL and contractors. Coordinates and elevation based on geodetic survey by MGL.				LOGGED BY T. Campbell CHECKED BY R. Burgess	
Depth (m)	Drilling Method	Graphic Log	Lithology	Installation	
1	Sonic 100 mm		Top Soil (100%): Brown, moderate to no plasticity, dry, Clayey sand from 0.4 to 1.3 m and gravel from 1.3 to 1.5 m.		—1.77 m BTOC (1/08/2026)
2			Clay gravel: Brown, non-plastic, very loose, dry.		
3			Clay gravel: Khaki, moderate plasticity, very soft, moist.		
4					
5					
6	Diamond HQ		Fault: Orange/grey, completely weathered, very weak.		—Bentonite chip seal (0 - 14.8 m)
			Fault: Grey, highly weathered, very weak.		
			Lost Core		
7			TZ3: Grey, slightly weathered, semi-pelitic.		
			Lost Core		
8			Fault: Grey, slightly weathered, semi-pelitic, extremely weak.		
			TZ3: Grey, slightly weathered, semi-pelitic, extremely weak.		
			Lost Core		
9			TZ3: Grey, slightly weathered, semi-pelitic.		
10			Thompson Gorge Fault: Blue/grey, unweathered, very weak.		
11					
12					
13			Lost Core		
		Thompson Gorge Fault: Blue/grey, unweathered, very to extremely weak. Soft and loose clay with larger quartz clasts from 13.3 to 14.04 m.			
14		TZ4: Grey, unweathered, semi-pelitic, weak rock. Crush zone of folded schist.			
15		TZ4: Grey, unweathered, psammitic, strong rock. Competent schist.			
16					
17					
18					
					—Pea gravel (14.8 - 18 m) —Grout (18 - 18.18 m)
19			Termination Depth at: 18.18 m. Planned depth (15 m).		

PROJECT NUMBER J-H-NZ0238	DRILLING DATE 3 July 2026 - 11 Jul 2026	COORDINATES 1318001.1, 5017906.4
PROJECT NAME BOGP GW Consenting Support	TOTAL DEPTH 95.3 m	COORD SYS NZTM (2000)
CLIENT Matakanui Gold Limited	DIAMETER PQ3	COMPLETION 11 Jul 2026
DRILLING COMPANY Alton Drilling	DIP 90	SURFACE ELEVATION 570.1 m RL
	AZIMUTH -	

COMMENTS: 3x Geokon VVPs installed via fully grouted method by MGL.	LOGGED BY P. Bratakusuma & T. Campbell
	CHECKED BY R. Burgess

Depth (m)	Drilling Method	Graphic Log	Lithology	Installation
2	Diamond PQ3		Superficial material (Quaternary); khaki; completely weathered	
			Lost Core	
4			Superficial material (Quaternary); khaki; completely weathered	
			Lost Core	
			Superficial material (Quaternary); khaki; completely weathered	
6			Lost core	
			Superficial material (Quaternary); khaki; completely weathered	
			Fault: Grey/orange, slightly weathered schist.	
8			TZ3 & TZ4: Grey to orange, moderately to completely weathered schist, with local fault/shear zones.	
			Lost core	
			Fault: Grey, completely weathered schist.	
10				
			Fault: Orange, completely weathered schist.	
12				
14				
16				
18				
			Fault: Grey, moderately weathered schist.	
			Fault: Grey/orange, moderately weathered schist.	
20				
			Fault: Grey, moderately weathered schist.	
22				
			Fault: Grey, moderately weathered schist.	
			Lost core	
24			Fault: Grey, unweathered schist.	
			TZ3 & TZ4: Grey, unweathered schist, with frequent fault and shear zones.	

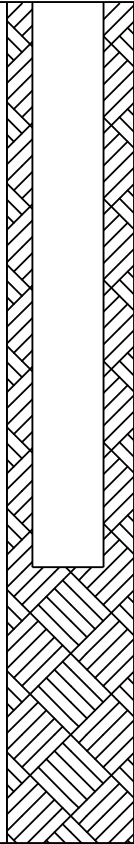
Grout (2 parts water, 1 part cement, and 1/3-part bentonite powder)



Depth (m)	Drilling Method	Graphic Log	Lithology	Installation
26			Fault: Grey, unweathered schist.	
28			Fault: Grey, unweathered schist. Fault: Grey, unweathered schist.	
30				
32			Fault: Grey, unweathered schist.	
34			Fault: Grey, unweathered schist.	
36			Fault: Grey, unweathered schist. Fault: Grey, unweathered schist.	
38			Fault: Grey, unweathered schist.	
40				Grout (2 parts water, 1 part cement, and 1/3-part bentonite powder)
42				
44			Fault: Grey, unweathered schist.	
46			Fault: Grey, unweathered schist.	
48				
50			Lost core Fault: Grey, unweathered schist. Lost core	
52			Fault: Grey, unweathered schist.	
54			Fault: Grey, unweathered schist. Fault: Grey, unweathered schist. Lost core	VWP Sensor (S20393) 53 m



Depth (m)	Drilling Method	Graphic Log	Lithology	Installation
56			Fault: Grey, unweathered schist.	 Grout (2 parts water, 1 part cement, and 1/3-part bentonite powder) VWP Sensor (S20457) 73 m
			Fault: Grey, unweathered schist.	
			Lost core	
			Fault: Grey, unweathered schist.	
58			Fault: Grey, unweathered schist.	
			Fault: Grey, unweathered schist.	
60				
			Fault: Grey, unweathered schist.	
			Fault: Grey, unweathered schist.	
62				
			Fault: Grey, unweathered schist.	
64			Fault: Grey, unweathered schist.	
			Lost core	
			Fault: Grey, unweathered schist.	
			Lost core	
66			Fault: Grey, unweathered schist.	
			Lost core	
68			Fault: Grey, unweathered schist. Washed gravel.	
			Lost core	
			Fault: Grey, unweathered schist. Washed gravel.	
			Lost core	
			Fault: Grey, unweathered schist. Washed gravel.	
70			Lost core	
			Fault: Grey, unweathered schist.	
			Fault: Grey, unweathered schist.	
			Lost core	
72			Fault: Grey, unweathered schist.	
			Lost core	
74			Fault: Grey, unweathered schist.	
			Fault: Grey, unweathered schist.	
76			Fault: Grey, unweathered schist.	
78				
			Fault: Grey, unweathered schist.	
80			Fault: Grey, unweathered schist.	
			Lost core	
			Fault: Grey, unweathered schist.	
82			Lost core	
			Lost core	
84				

Depth (m)	Drilling Method	Graphic Log	Lithology	Installation
86			<i>Fault: Grey, unweathered schist.</i>	 VWP Sensor (S20458) 95 m Grout (2 parts water, 1 part cement, and 1/3-part bentonite powder)
			<i>Lost core</i>	
			<i>Fault: Grey, unweathered schist.</i>	
88			<i>Fault: Grey, unweathered schist.</i>	
			<i>Fault: Grey, unweathered schist.</i>	
90			<i>Fault: Grey, unweathered schist.</i>	
			<i>Lost core</i>	
92			<i>Fault: Grey, unweathered schist.</i>	
			<i>Lost core</i>	
94			<i>Fault: Grey, unweathered schist.</i>	
			<i>Lost core</i>	
			<i>Lost core</i>	
			<i>Fault: Grey, unweathered schist.</i>	
96			<i>Fault: Grey, unweathered schist.</i>	
			<i>Lost core</i>	
98			<i>Fault: Grey, unweathered schist.</i>	
			<i>Lost core</i>	
			<i>Fault: Grey, unweathered schist.</i>	
100			<i>Fault: Grey, unweathered schist.</i>	
			Termination Depth at: 100 m. Planned depth (100 m).	
102				
104				
106				
108				
110				
112				
114				
116				

PROJECT NUMBER J-H-NZ0238	DRILLING DATE 11 Jul 2026 - 22 Jul 2026	COORDINATES 1318251.5, 5017905.0
PROJECT NAME BOGP GW Consenting Support	TOTAL DEPTH 150 m	COORD SYS NZTM (2000)
CLIENT Matakanui Gold Limited	DIAMETER PQ3	COMPLETION 22 Jul 2026
DRILLING COMPANY South Drill (Confirm as it's not in logging sheet)	DIP 50	SURFACE ELEVATION 569.7 m RL
	AZIMUTH 70	

COMMENTS: 3x Geokon VVPs installed via fully grouted method by MGL.	LOGGED BY K. Marsh & P. Bratakusuma
	CHECKED BY R. Burgess

Depth (m)	Drilling Method	Graphic Log	Lithology	Installation
2	Diamond PQ3		TZ3 & TZ4: Grey to orange, moderately to completely weathered schist, with local fault/shear zones.	  Grout (2 parts water, 1 part cement, and 1/3-part bentonite powder)
			Lost Core	
			Lost core	
			Lost core	
			Fault: Grey/orange, slightly weathered schist.	
4				
			Fault: Grey/orange, slightly weathered schist.	
6			Lost core	
			Fault: Grey/orange, slightly weathered schist.	
8				
10			Fault: Grey/orange, unweathered schist.	
12				
14			Lost core	
16			Lost core	
18				
20			Fault: Grey, slightly weathered schist.	
22				
24				



Depth (m)	Drilling Method	Graphic Log	Lithology	Installation
26			Fault: Grey, slightly weathered schist.	 Grout (2 parts water, 1 part cement, and 1/3-part bentonite powder) VWP Sensor (S20061) 54.7 m
28			Fault: Grey, slightly weathered schist.	
30			Fault: Grey, slightly weathered schist.	
32			Fault: Grey, slightly weathered schist.	
34			Lost core	
36			Fault: Grey/orange, slightly weathered schist.	
38				
40			TZ3 & TZ4: Grey, unweathered schist, with frequent fault and shear zones.	
42			Lost core	
44				
46				
48				
50			Fault: Grey, unweathered schist.	
52				
54				

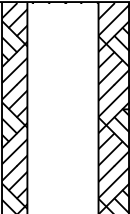
Depth (m)	Drilling Method	Graphic Log	Lithology	Installation
56				
58				
60				
			<i>Fault: Grey, unweathered schist.</i>	
62				
			<i>Fault: Grey, unweathered schist.</i>	
64				
66				
68				
70				
			<i>Fault: Grey, unweathered schist.</i>	
72				
			<i>Fault: Grey, unweathered schist.</i>	
74				
			<i>Fault: Grey, unweathered schist.</i>	
76				
78				
80				
82				
84				

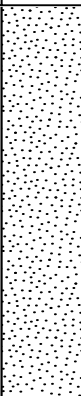
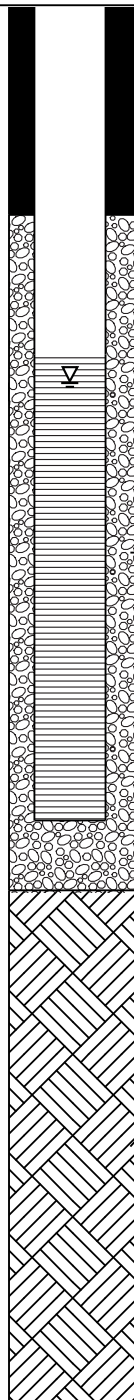
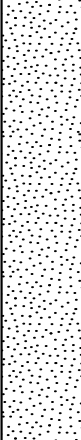
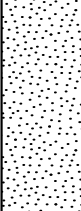
Grout (2 parts water, 1 part cement,
and 1/3-part bentonite powder)

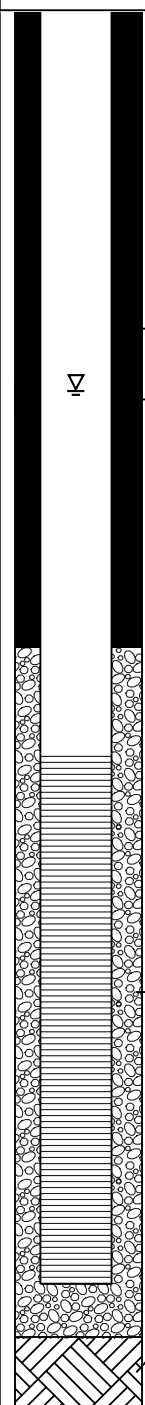
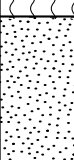
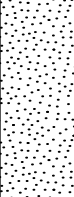
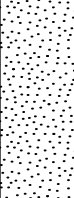
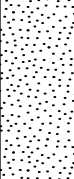
Depth (m)	Drilling Method	Graphic Log	Lithology	Installation
86				
88				
90				
92			Fault: Grey, unweathered schist.	
94				
96			Fault: Grey, unweathered schist.	
98				
100				
102			Fault: Grey, unweathered schist.	Grout (2 parts water, 1 part cement, and 1/3-part bentonite powder)
104			Fault: Grey, unweathered schist.	
106			Lost core	
108				VWP Sensor (S2230879) 107.7 m
110				
112				
114			Fault: Grey, unweathered schist.	
116			Lost core	
118			Fault: Grey, unweathered schist.	

Depth (m)	Drilling Method	Graphic Log	Lithology	Installation
118				
120				
122				
124			Fault: Grey, unweathered schist.	
126				
128			Fault: Grey, unweathered schist.	
130				
132				
134				
136			Fault: Grey, unweathered schist.	
138				
140				
142				
144			Fault: Grey, unweathered schist.	
146				

Grout (2 parts water, 1 part cement, and 1/3-part bentonite powder)

Depth (m)	Drilling Method	Graphic Log	Lithology	Installation
148				 Grout (2 parts water, 1 part cement, and 1/3-part bentonite powder) VWP Sensor (S2628896) 148.7 m
150			<i>Fault: Grey, unweathered schist.</i>	
150			Termination Depth at: 150 m. Planned depth (150 m).	
152				
154				
156				
158				
160				
162				
164				
166				
168				
170				
172				
174				
176				

PROJECT NUMBER J-H-NZ0238		DRILLING DATE 20 July 2026 - 20 July 2026		COORDINATES 1318473.0 5017956.5	
PROJECT NAME BOGP GW Consenting Support		TOTAL DEPTH 6 m		COORD SYS NZTM (2000)	
CLIENT Matakanui Gold Limited		DIAMETER 100 mm		COMPLETION 20 July 2026	
DRILLING COMPANY Speights DRilling		CASING 50 mm PVC		SURFACE ELEVATION 538.4 m RL	
		SCREEN 1.5 - 3.5 mbgl (1 mm aperture)		WELL TOC 539.0 m RL	
COMMENTS: Well developed by MGL and contractors. Coordinates and elevation based on geodetic survey by MGL.				LOGGED BY T. Campbell	
				CHECKED BY R. Burgess	
Depth (m)	Drilling Method	Graphic Log	Lithology	Installation	
0.5	Sonic 100 mm		Colluvium: Brown, completely weathered, very weak with traces of residual soil.		
1					
1.5					
2			Colluvium: Brown, completely weathered, very weak with some clay present and 1 - 4 mm rock fragments.		
2.5					
3	Sonic 100 mm				
3.5					
4			Colluvium: Brown/grey, moderately weathered, very weak with some clay present and 1 - 4 mm rock fragments.		
4.5			Fault: Grey, unweathered, very weak with clay and 1 -3 mm rock fragments.		
5	Sonic 100 mm				
5.5					
6			Termination Depth at: 6 m. Planned depth (6 m).		

PROJECT NUMBER J-H-NZ0238		DRILLING DATE 17 July 2026 - 17 July 2026		COORDINATES 1318474.8, 5017956.4	
PROJECT NAME BOGP GW Consenting Support		TOTAL DEPTH 6 m		COORD SYS NZTM (2000)	
CLIENT Matakanui Gold Limited		DIAMETER 100 mm		COMPLETION 17 July 2026	
DRILLING COMPANY Speights Drilling		CASING 50 mm PVC		SURFACE ELEVATION 538.4 m RL	
		SCREEN 4.2 - 7.2 mbgl (1 mm aperture)		WELL TOC 539.0 m RL	
COMMENTS: Well developed by MGL and contractors. Coordinates and elevation based on geodetic survey by MGL.				LOGGED BY T. Campbell CHECKED BY R. Burgess	
Depth (m)	Drilling Method	Graphic Log	Lithology	Installation	
0.5	Sonic 100 mm		Topsoil: Dark brown, residual soil, very weak with traces of organic material and 1 mm rock fragments.		Bentonite chip seal (0 - 3.6 m) Water Level: 2.15 m BTOC (30/07/2026) Filter pack (3.6 - 7.5 m) Grout/Bentonite (7.5 - 7.9 m)
1			Colluvium: Brown, completely weathered, very weak with clay and 1 - 3 mm rock fragments.		
1.5					
2			Colluvium: Brown/grey, highly weathered, very weak with clay and 1 - 3 mm rock fragments. Increased moisture.		
2.5					
3			Colluvium: Brown/grey, highly weathered, very weak with clay and 1 - 8 mm rock fragments.		
3.5					
4			Colluvial: Brown/grey, moderately weathered, very weak with clay and 1 - 8 mm rock fragments. Trace of high brittle schist.		
4.5					
5			Fault: Grey/brown, slightly weathered, very weak rich in clay with 3 - 7 mm rock fragments.		
5.5					
6			Fault: Grey, unweathered, very weak clay rich with 3 - 7 mm rock fragments.		
6.5					
7					
7.5					
8			Termination Depth at: 7.9 m. Planned depth (10 m).		

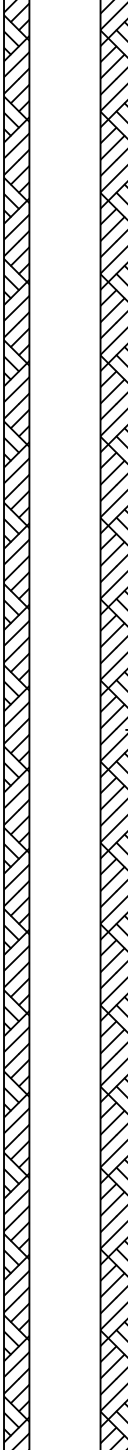
PROJECT NUMBER J-H-NZ0238	DRILLING DATE 16 July 2026 - 17 July 2026	COORDINATES 1318476.2, 5017956.3
PROJECT NAME BOGP GW Consenting Support	TOTAL DEPTH 15 m	COORD SYS NZTM (2000)
CLIENT Matakanaui Gold Limited	DIAMETER 100 mm	COMPLETION 17 July 2026
DRILLING COMPANY South Drill (Confirm as it's not in logging sheet)	CASING 50 mm PVC	SURFACE ELEVATION 538.5 m RL
	SCREEN 7.5 - 12.2 mbgl (1 mm aperture)	WELL TOC 539.0 m RL

COMMENTS: Well developed by MGL and contractors. Coordinates and elevation based on geodetic survey by MGL.	LOGGED BY T. Campbell CHECKED BY R. Burgess
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Depth (m)	Drilling Method	Graphic Log	Lithology	Installation
1	Sonic 100 mm		Quaternary alluvials: Brown, completely weathered, very weak with traces of soil and 2 - 4 mm rock fragments. Clay present.	 Water Level: 2.25 m BTOC (1/08/2026)
2				
3				 Bentonite chip seal (0 - 6.9 m)
4				
5			TZ3: Grey, unweathered, very weak with soft clay and 1 - 15 mm rock fragments. Possibly shearzone.	
6				
7				
8			TZ3: Grey, unweathered, weak with large schist boulder ranging from 50 - 80 mm. Patches of shearzone with clay and rock fragments infill observed.	
9				
10				
11				
12				
13			TZ3: Grey, unweathered, weak with 1 - 4 mm rock fragments. Intact shearzone.	
14				
15			Termination Depth at: 15 m. Planned depth (15 m).	
				 Filter pack (6.9 - 12.5 m)
				 Grout/Bentonite (12.5 - 15 m)

PROJECT NUMBER J-H-NZ0238	DRILLING DATE 27 Jun 2026 - 8 Aug 2026	COORDINATES 1317577.1, 5017315.7
PROJECT NAME BOGP GW Consenting Support	TOTAL DEPTH 100 m	COORD SYS NZTM (2000)
CLIENT Matakanui Gold Limited	DIAMETER PQ3	COMPLETION 8 Aug 2026
DRILLING COMPANY Alton Drilling	DIP 90	SURFACE ELEVATION 677.6 RL
	AZIMUTH -	

COMMENTS: 3x Geokon VVPs installed via fully grouted method by MGL.	LOGGED BY T. Campbell
	CHECKED BY R. Burgess

Depth (m)	Drilling Method	Graphic Log	Lithology	Installation
2	Diamond PQ3		Fault: TZ3, grey to orange, slightly to highly weathered schist.	
4			TGF (Thomson Gorge Fault): Grey, unweathered fault material.	
6			TZ4: Grey to orange, moderately to completely weathered schist.	
8				
10				
12				Grout (2 parts water, 1 part cement, and 1/3-part bentonite powder)
14				
16				
18				
20				
22				
24			Grey, unweathered vein halo associated with the Rise and Shine Shear Zone	
			TZ4: Grey, unweathered schist, with frequent fault and shear	

Depth (m)	Drilling Method	Graphic Log	Lithology	Installation
26			zones.	
28				
30				
32			Fault: Grey, unweathered schist.	VWP Sensor (S20664) 30 m
34				
36				
38			Fault: Schist.	
40				Grout (2 parts water, 1 part cement, and 1/3-part bentonite powder)
42				
44				
46				
48				
50				
52				
54				

Depth (m)	Drilling Method	Graphic Log	Lithology	Installation
56				
58				
60				
62				VWP Sensor (S20640) 61 m
64				
66				
68				
70				Grout (2 parts water, 1 part cement, and 1/3-part bentonite powder)
72				
74				
76				
78				
80				
82				
84				

Depth (m)	Drilling Method	Graphic Log	Lithology	Installation
86				
88				
90				
92				
94				Grout (2 parts water, 1 part cement, and 1/3-part bentonite powder)
96				VWP Sensor (S22231) 95 m
98				
100			Termination Depth at: 100 m. Planned depth (100 m).	
102				
104				
106				
108				
110				
112				
114				
116				

PROJECT NUMBER J-H-NZ0238		DRILLING DATE 10 Jul 2026 - 17 Jul 26 (Not in lo		COORDINATES 1318218.9, 5016927.6	
PROJECT NAME BOGP GW Consenting Support		TOTAL DEPTH 210 m		COORD SYS NZTM (2000)	
CLIENT Matakanui Gold Limited		DIAMETER PQ3		COMPLETION 17 Jul 2026	
DRILLING COMPANY Alton Drilling		DIP 56		SURFACE ELEVATION 787.3 m RL	
		AZIMUTH 70			
COMMENTS: 3x Geokon VVPs installed via fully grouted method by MGL.				LOGGED BY K.Marsh, P.Bratakusuma & T.Campbell	
				CHECKED BY R. Burgess	
Depth (m)	Drilling Method	Graphic Log	Lithology	Installation	
2 					

Depth (m)	Drilling Method	Graphic Log	Lithology	Installation
26				
28				
30				
32				
34				
36			Fault: Grey, unweathered schist.	
38				
40			Fault: Grey, unweathered schist.	
42			Lost core	
44			Lost core	
46			Fault: Grey, unweathered schist.	
48				
50			Fault: Grey, unweathered schist.	
52			Fault: Grey, unweathered schist.	
54			Fault: Grey, unweathered schist.	

Grout (2 parts water, 1 part cement, and 1/3-part bentonite powder)



Depth (m)	Drilling Method	Graphic Log	Lithology	Installation
56			Fault: Grey, unweathered schist.	 Grout (2 parts water, 1 part cement, and 1/3-part bentonite powder)
58				
60				
			Fault: Grey, unweathered schist.	
62				
			Fault: Grey, unweathered schist.	
			Lost core	
			Fault: Grey, unweathered schist.	
			Fault: Grey, unweathered schist.	
64				
66				
			Fault: Grey, unweathered schist.	
			Lost core	
68				
			Fault: Grey, unweathered schist.	
70				
			Fault: Grey, unweathered schist.	
			Lost core	
72				
			Fault: Grey, unweathered schist.	
74				
76				
			Fault: Unweathered schist.	
78				
80				
82				
			Fault: Unweathered schist.	
			Lost core	
			Fault: Unweathered schist.	
			Fault: Grey, unweathered schist.	
84				
			Lost core	
			Fault: Grey, unweathered schist.	
			Fault: Grey, unweathered schist.	

Depth (m)	Drilling Method	Graphic Log	Lithology	Installation
86				
88				
90				
92				
94				
96				
98				
100				
102				
104				
106				
108				
110				
112				
114				
116				

VWP Sensor (S22233) 100 m
Grout (2 parts water, 1 part cement,
and 1/3-part bentonite powder)

Fault: Grey, unweathered schist.

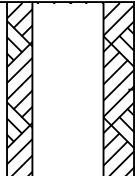


Depth (m)	Drilling Method	Graphic Log	Lithology	Installation
118				
120				
122			Fault: Grey, unweathered schist.	
			Fault: Grey, unweathered schist.	
124				
126				
128				
130			Fault: Grey, unweathered schist.	
132				
134				
136			Fault: Grey, unweathered schist.	
			Lost core	
			Fault: Grey, unweathered schist.	
138			Fault: Grey, unweathered schist.	
140				
142				
144			Fault: Grey, unweathered schist.	
			Grey, unweathered breccia associated with the Rise and Shine Shear Zone.	
146				

Grout (2 parts water, 1 part cement, and 1/3-part bentonite powder)

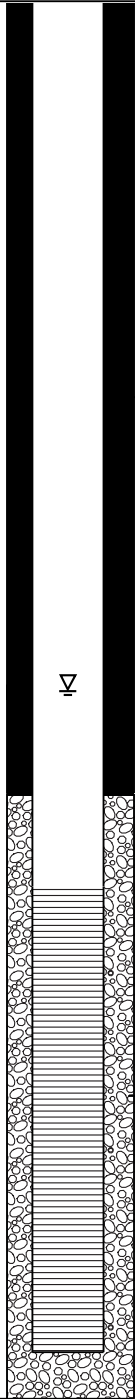
Depth (m)	Drilling Method	Graphic Log	Lithology	Installation
148				
150				
152				
154				
156				
158				
160				
162				Grout (2 parts water, 1 part cement, and 1/3-part bentonite powder)
164			Fault: Grey, unweathered schist.	
166				
168			Fault: Grey, unweathered schist.	
170				
172			Fault: Grey, unweathered schist.	VWP Sensor (S22344) 172 m
174			TZ3 & TZ4: Grey, unweathered schist, with frequent fault and shear zones.	
176				

Depth (m)	Drilling Method	Graphic Log	Lithology	Installation
178				
180				
182				
184				
186				
188				
190				
192				Grout (2 parts water, 1 part cement, and 1/3-part bentonite powder)
194				
196				
198				
200				VWP Sensor (S22345) 200 m
202				
204				
206				

Depth (m)	Drilling Method	Graphic Log	Lithology	Installation
208				 Grout (2 parts water, 1 part cement, and 1/3-part bentonite powder)
210			Termination Depth at: 210 m. Planned depth (210 m).	
212				
214				
216				
218				
220				
222				
224				
226				
228				
230				
232				
234				
236				

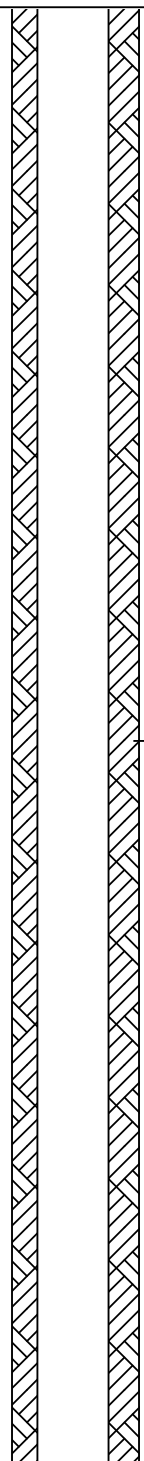
PROJECT NUMBER J-H-NZ0238	DRILLING DATE 3 Aug 2026 - 3 Aug 2026	COORDINATES 1319617.3, 5015485.6
PROJECT NAME BOGP GW Consenting Support	TOTAL DEPTH 15 m	COORD SYS NZTM (2000)
CLIENT Matakanaui Gold Limited	DIAMETER 100 mm	COMPLETION 3 Aug 2026
DRILLING COMPANY Speights Drilling	CASING 50 mm PVC	SURFACE ELEVATION 795.5 m RL
	SCREEN 5.7 - 8.7 mbgl (1 mm aperture)	WELL TOC 796.1 m RL

COMMENTS: Well developed by MGL and contractors. Coordinates and elevation based on geodetic survey by MGL.	LOGGED BY T. Campbell CHECKED BY R Burgess
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Depth (m)	Drilling Method	Graphic Log	Lithology	Installation
0.5	Sonic 100 mm		<i>Organic Soil: Brown, completely weathered, high plasticity, very soft, very weak, moist.</i>	
1			<i>Gravel: Brown, completely weathered, stiff, weak, moist.</i>	
1.5				
2				
2.5				
3				
3.5				
4				
4.5			Lost Core	
5			<i>Gravel: Brown, completely weathered, stiff, weak, moist</i>	
5.5				
6			Lost Core	
6.5				
7			<i>Gravel: Brown, completely weathered, stiff, weak, moist</i>	
7.5			Lost Core	
8				
8.5			<i>TZ3: Grey, unweathered, pelitic, very weak.</i>	
9			Termination Depth at: 9 m. Planned depth (10 m).	

PROJECT NUMBER J-H-NZ0238	DRILLING DATE 27 Jul 2026 - 7 Aug 2026	COORDINATES 1318451.0, 5018209.0
PROJECT NAME BOGP GW Consenting Support	TOTAL DEPTH 100 m	COORD SYS NZTM (2000)
CLIENT Matakanaui Gold Limited	DIAMETER PQ3	COMPLETION 8 Aug 2026
DRILLING COMPANY Alton Drilling	DIP 90	SURFACE ELEVATION 580.7 m RL
	AZIMUTH -	

COMMENTS: 3x Geokon VVPs installed via fully grouted method by MGL.	LOGGED BY T. Campbell
	CHECKED BY R. Burgess

Depth (m)	Drilling Method	Graphic Log	Lithology	Installation
2	Diamond PQ3		Quaternary sediments, compeltely weathered, brown.	
4			Shear Zone, highly weathered, grey schist.	
6			TZ3, moderately weathered, grey schist.	
8			TZ3, slightly weathered, grey schist.	
10				
12			TZ3: Grey, unweathered schist, with frequent fault and shear zones.	Grout (2 parts water, 1 part cement, and 1/3-part bentonite powder)
14				
16				
18				
20				
22				
24				

Depth (m)	Drilling Method	Graphic Log	Lithology	Installation
26				
28				
30				
32				
34				
36				
38				
40				
42				
44				
46				
48				
50				
52				
54				

VWP Sensor (S2611255) 29.5 m

Grout (2 parts water, 1 part cement,
and 1/3-part bentonite powder)

Depth (m)	Drilling Method	Graphic Log	Lithology	Installation
56				
58				
60				
62				
64				VWP Sensor (S2518921) 63 m
66				
68				
70				Grout (2 parts water, 1 part cement, and 1/3-part bentonite powder)
72				
74				
76				
78				
80				
82				
84				

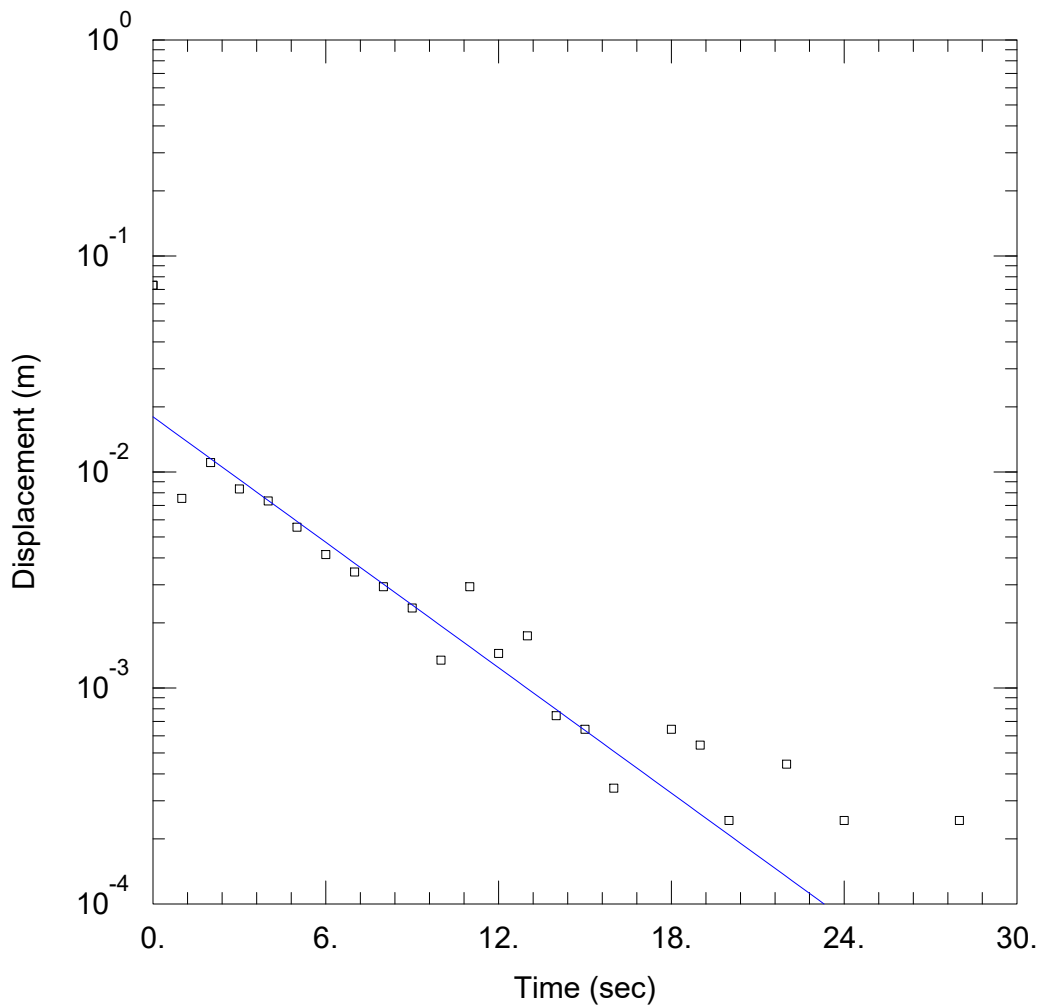
Depth (m)	Drilling Method	Graphic Log	Lithology	Installation
86				
88				
90				
92				
94				
96				
98				
100				
102				
104				
106				
108				
110				
112				
114				
116				

Grout (2 parts water, 1 part cement,
and 1/3-part bentonite powder)

VWP Sensor (S2230878) 96.3 m

Termination Depth at: 100 m. Planned depth (100 m).

ATTACHMENT B – SLUG TEST ANALYSIS



WELL TEST ANALYSIS

Data Set: C:\...\GW02A-FH.aqt

Date: 08/16/26

Time: 15:44:26

PROJECT INFORMATION

Project: J-H-NZ0238 - BOGP GW Consentin

AQUIFER DATA

Saturated Thickness: 5.5 m

Anisotropy Ratio (K_z/K_r): 1.

WELL DATA (GW02A)

Initial Displacement: 0.073 m

Static Water Column Height: 2.5 m

Total Well Penetration Depth: 4. m

Screen Length: 4. m

Casing Radius: 0.025 m

Well Radius: 0.05 m

Gravel Pack Porosity: 0.3

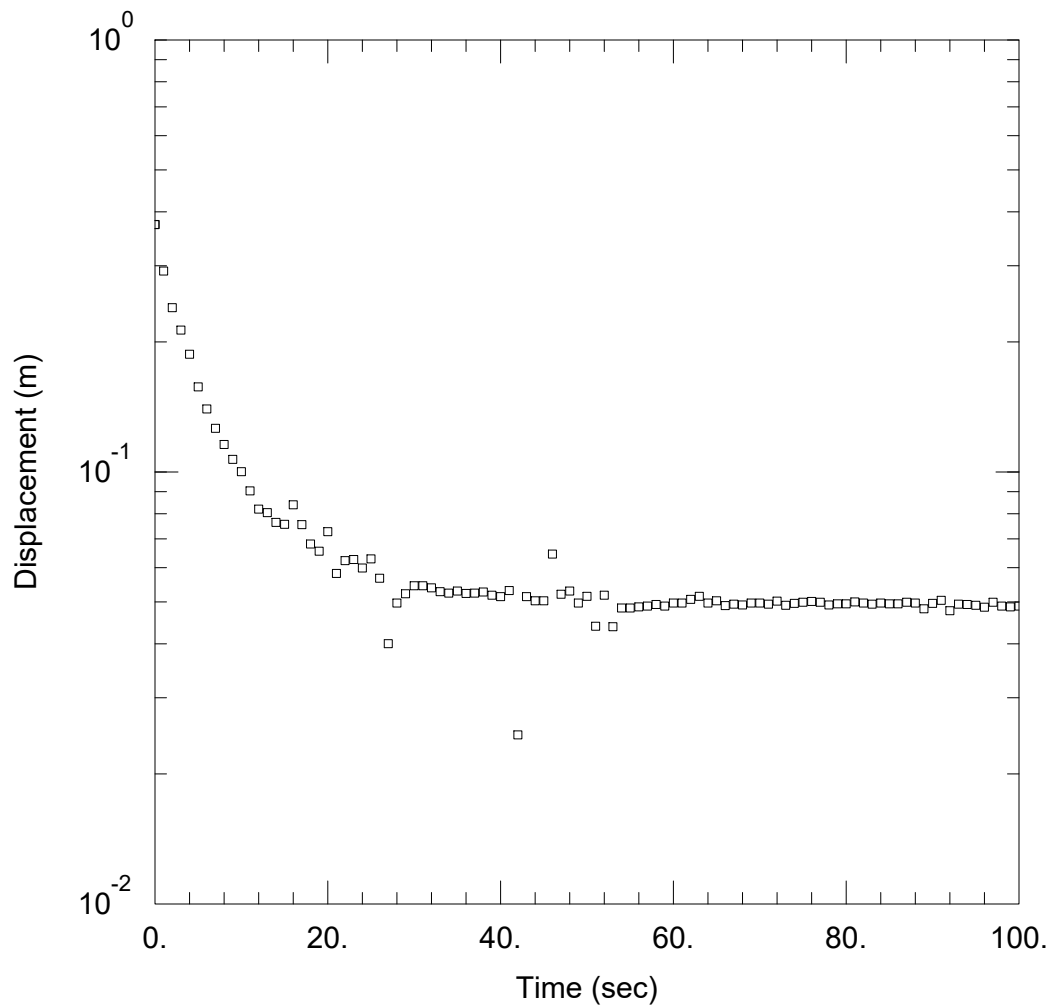
SOLUTION

Aquifer Model: Unconfined

Solution Method: Bouwer-Rice

$K = 0.0001012$ m/sec

$y_0 = 0.01799$ m



WELL TEST ANALYSIS

Data Set: C:\...\GW02B_20260812-FH.aqt

Date: 08/14/26

Time: 15:15:54

PROJECT INFORMATION

Project: J-H-NZ0238 - BOGP GW Consentin

AQUIFER DATA

Saturated Thickness: 2.6 m

Anisotropy Ratio (K_z/K_r): 1.

WELL DATA (GW02B)

Initial Displacement: 0.374 m

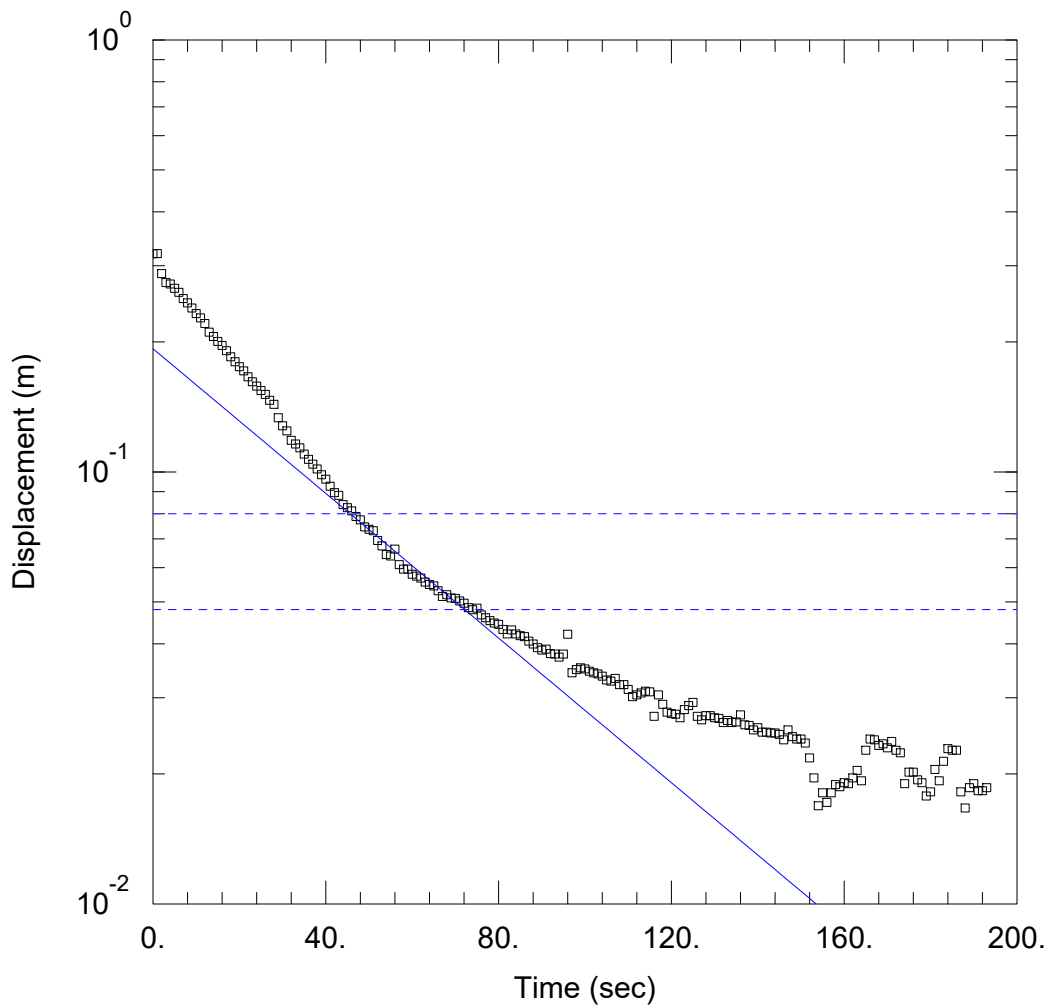
Static Water Column Height: 5.8 m

Total Well Penetration Depth: 5.8 m

Screen Length: 1.7 m

Casing Radius: 0.025 m

Well Radius: 0.05 m



WELL TEST ANALYSIS

Data Set: C:\...\GW02C-FH.aqt

Date: 08/16/26

Time: 15:43:24

PROJECT INFORMATION

Project: J-H-NZ0238 - BOGP GW Consentin

AQUIFER DATA

Saturated Thickness: 4. m

Anisotropy Ratio (K_z/K_r): 1.

WELL DATA (GW02C)

Initial Displacement: 0.32 m

Static Water Column Height: 9.7 m

Total Well Penetration Depth: 9.7 m

Screen Length: 3. m

Casing Radius: 0.025 m

Well Radius: 0.05 m

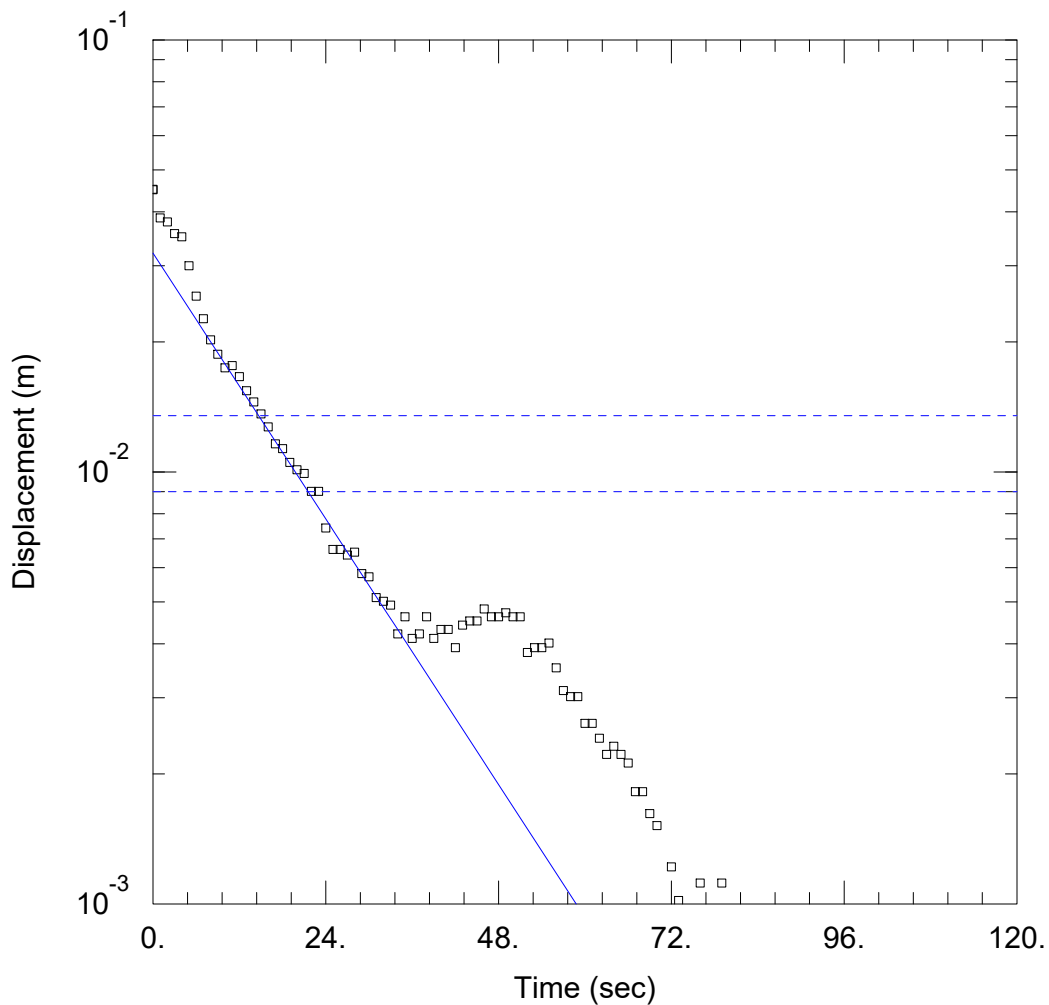
SOLUTION

Aquifer Model: Confined

Solution Method: Hvorslev

$K = 9.613E-6$ m/sec

$y_0 = 0.1928$ m



WELL TEST ANALYSIS

Data Set: C:\...\GW03A-FH.aqt

Date: 08/16/26

Time: 15:38:07

PROJECT INFORMATION

Project: J-H-NZ0238 - BOGP GW Consent

AQUIFER DATA

Saturated Thickness: 2.9 m

Anisotropy Ratio (K_z/K_r): 1.

WELL DATA (GW03A)

Initial Displacement: 0.045 m

Static Water Column Height: 2.8 m

Total Well Penetration Depth: 2.8 m

Screen Length: 2.8 m

Casing Radius: 0.025 m

Well Radius: 0.05 m

Gravel Pack Porosity: 0.3

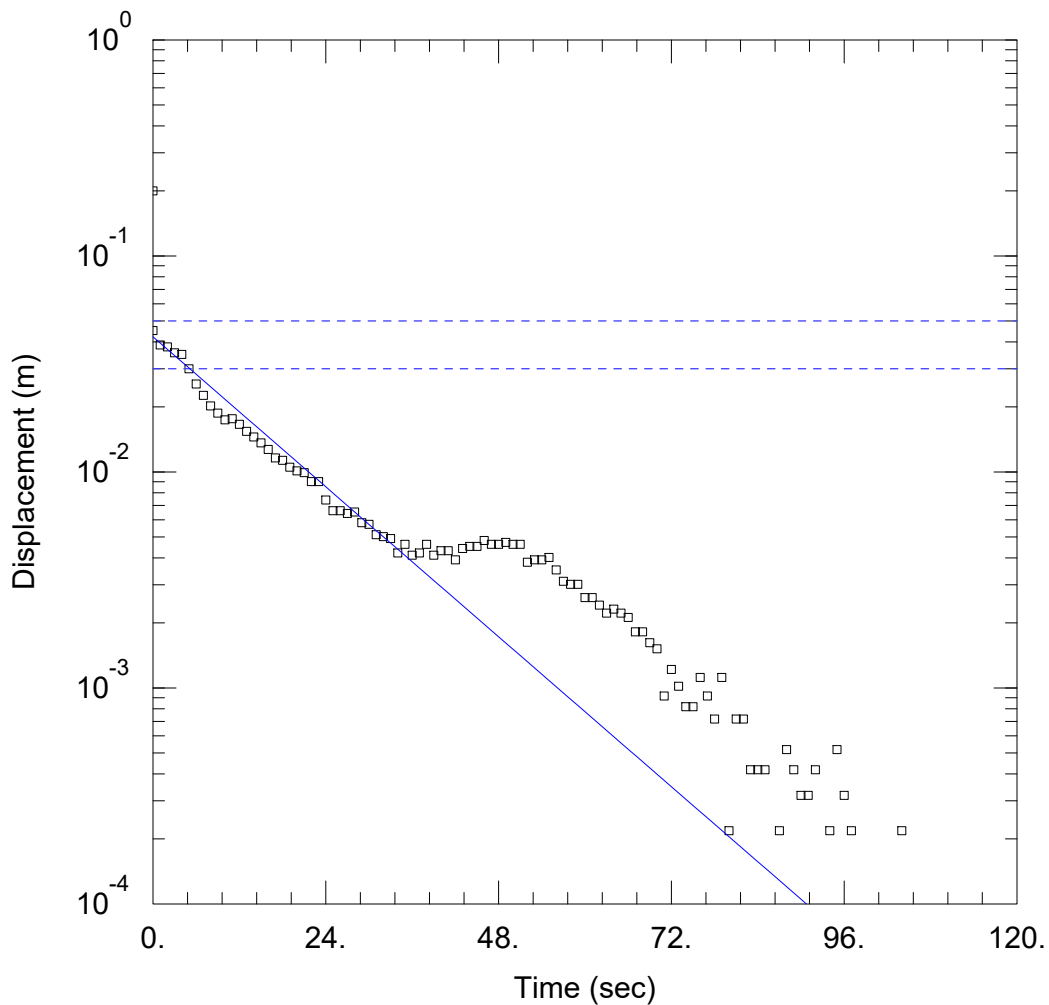
SOLUTION

Aquifer Model: Unconfined

Solution Method: Bouwer-Rice

$K = 3.703E-5$ m/sec

$y_0 = 0.03209$ m



WELL TEST ANALYSIS

Data Set: C:\...\GW03B-FH.aqt

Date: 08/16/26

Time: 15:36:30

PROJECT INFORMATION

Project: J-H-NZ0238 - BOGP GW Consentin

AQUIFER DATA

Saturated Thickness: 3.5 m

Anisotropy Ratio (K_z/K_r): 1.

WELL DATA (GW03B)

Initial Displacement: 0.2 m

Static Water Column Height: 4.2 m

Total Well Penetration Depth: 4.2 m

Screen Length: 1.5 m

Casing Radius: 0.025 m

Well Radius: 0.05 m

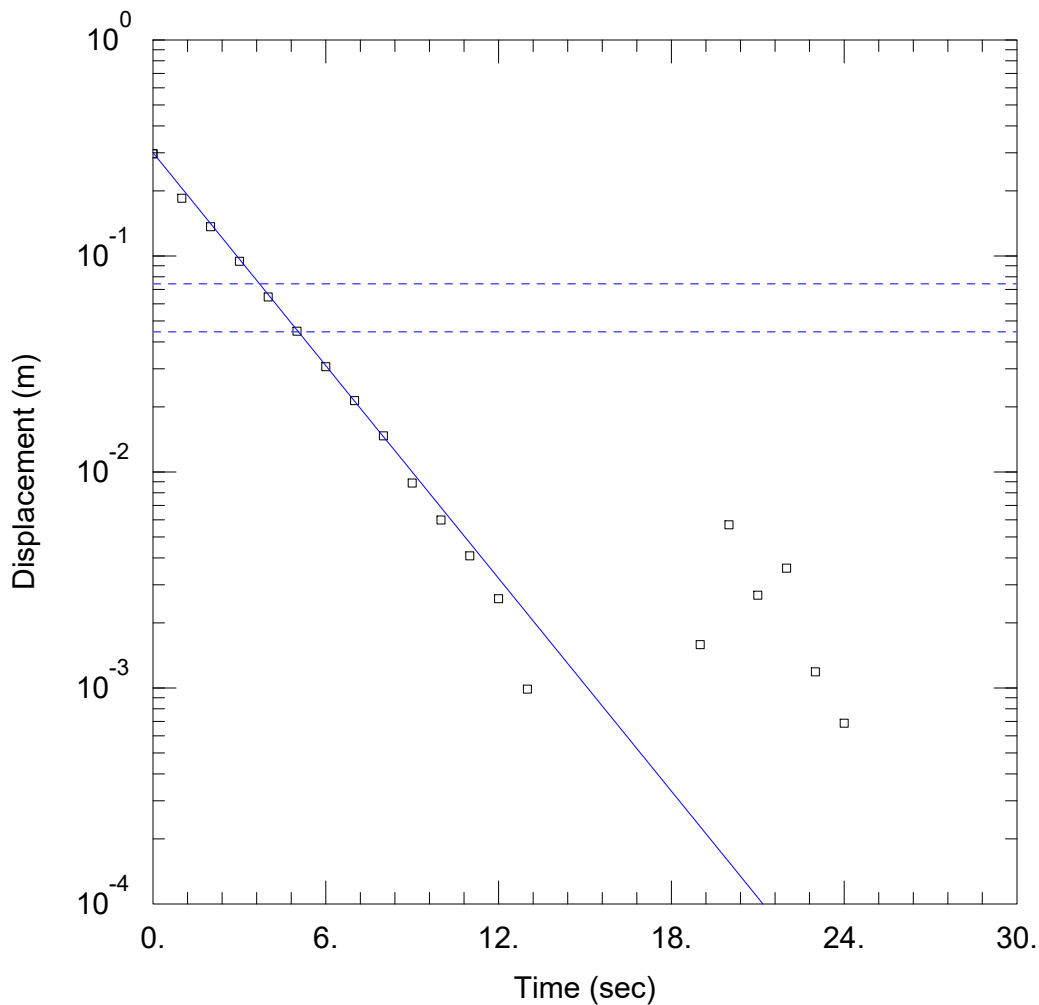
SOLUTION

Aquifer Model: Confined

Solution Method: Hvorslev

$K = 5.682E-5$ m/sec

$y_0 = 0.04222$ m



WELL TEST ANALYSIS

Data Set: C:\...\GW03B-RH.aqt

Date: 08/16/26

Time: 15:37:22

PROJECT INFORMATION

Project: J-H-NZ0238 - BOGP GW Consentin

AQUIFER DATA

Saturated Thickness: 3.5 m

Anisotropy Ratio (K_z/K_r): 1.

WELL DATA (GW03B)

Initial Displacement: 0.297 m

Static Water Column Height: 4.2 m

Total Well Penetration Depth: 4.2 m

Screen Length: 1.5 m

Casing Radius: 0.025 m

Well Radius: 0.05 m

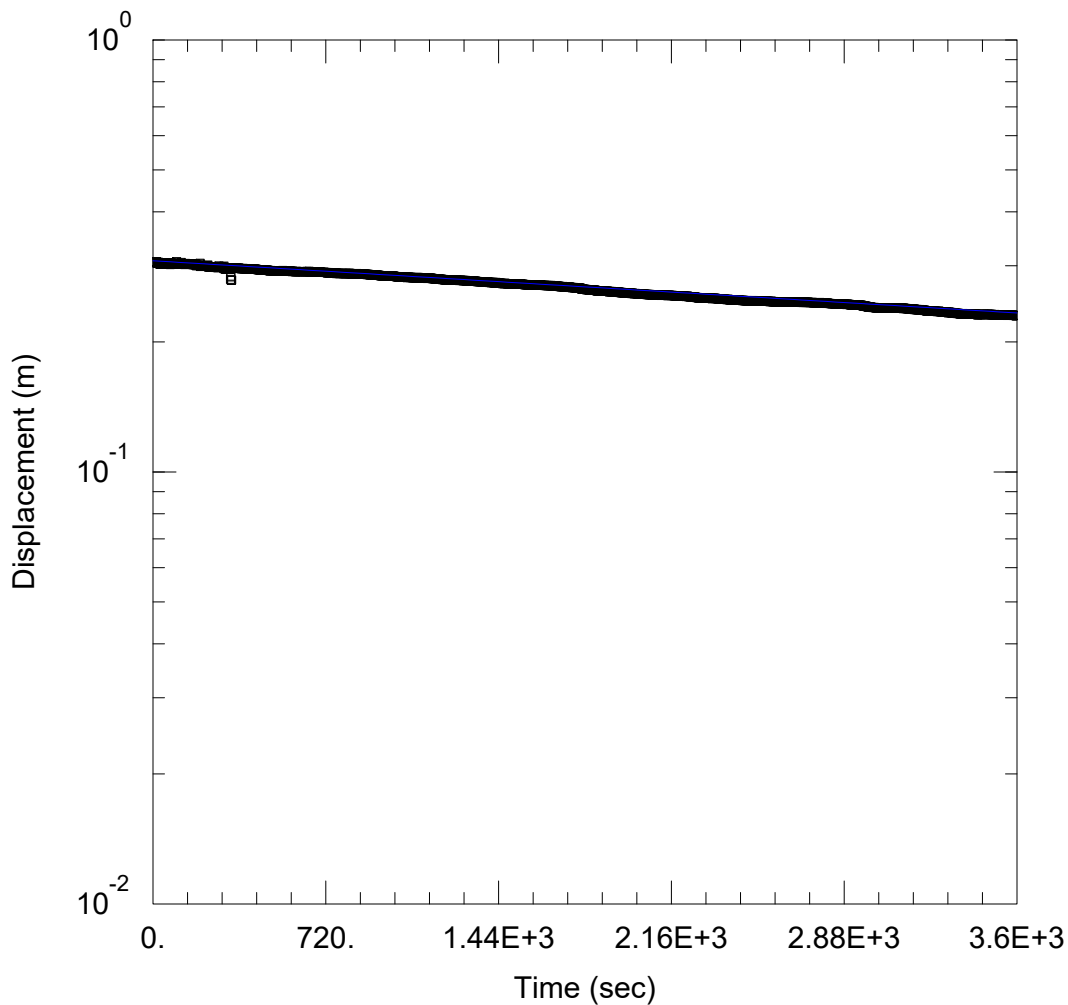
SOLUTION

Aquifer Model: Confined

Solution Method: Hvorslev

$K = 0.0003226$ m/sec

$y_0 = 0.3005$ m



WELL TEST ANALYSIS

Data Set: C:\...\GW03C-FH-20260801.aqt

Date: 08/16/26

Time: 15:35:55

PROJECT INFORMATION

Project: J-H-NZ0238 - BOGP GW Consent

AQUIFER DATA

Saturated Thickness: 13.5 m

Anisotropy Ratio (K_z/K_r): 1.

WELL DATA (GW03C)

Initial Displacement: 0.306 m

Static Water Column Height: 16.7 m

Total Well Penetration Depth: 16.7 m

Screen Length: 3. m

Casing Radius: 0.025 m

Well Radius: 0.05 m

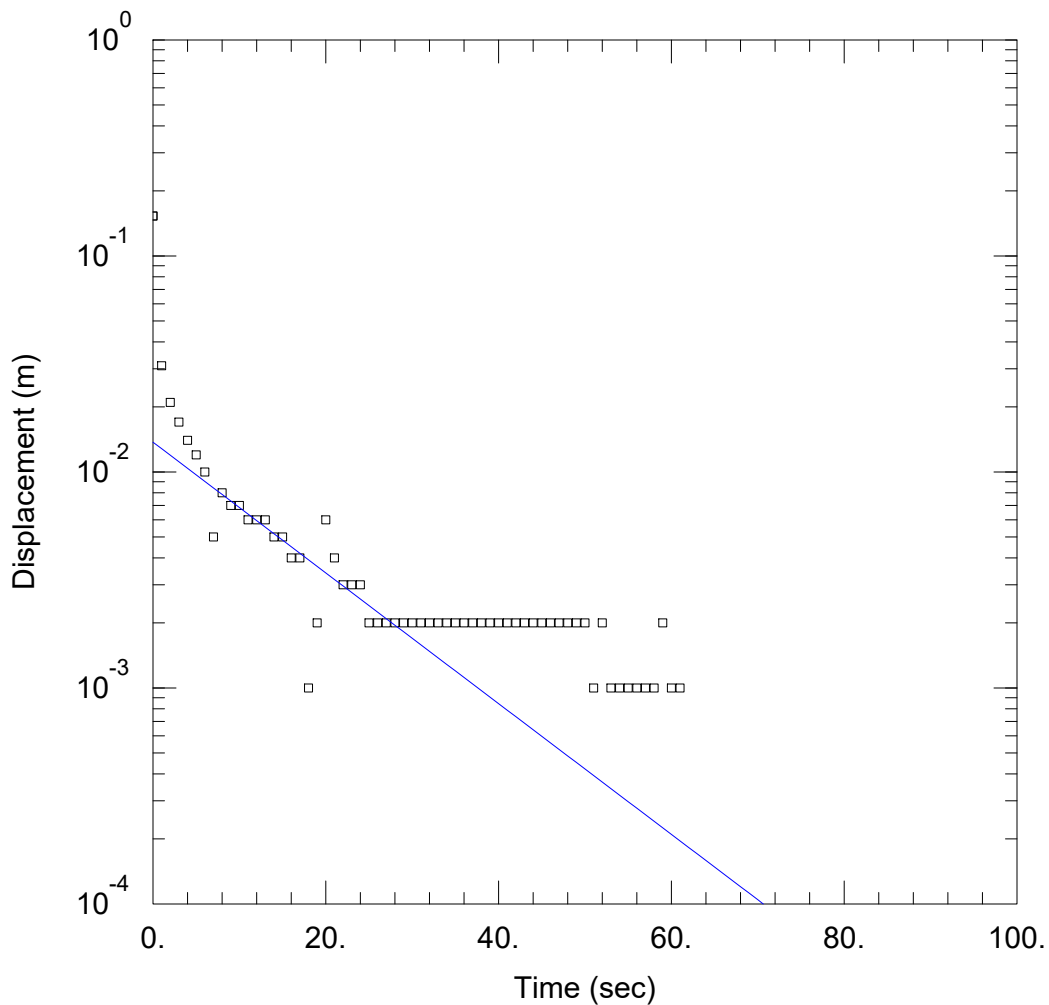
SOLUTION

Aquifer Model: Confined

Solution Method: Hvorslev

$K = 3.855E-8$ m/sec

$y_0 = 0.3082$ m



WELL TEST ANALYSIS

Data Set: C:\...\GW06A-RH-20260730_rev1.aqt

Date: 08/14/26

Time: 14:26:42

PROJECT INFORMATION

Project: J-H-NZ0238 - BOGP GW Consent

AQUIFER DATA

Saturated Thickness: 2.9 m

Anisotropy Ratio (K_z/K_r): 1.

WELL DATA (GW06A)

Initial Displacement: 0.153 m

Static Water Column Height: 1.9 m

Total Well Penetration Depth: 1.9 m

Screen Length: 1.9 m

Casing Radius: 0.025 m

Well Radius: 0.05 m

Gravel Pack Porosity: 0.3

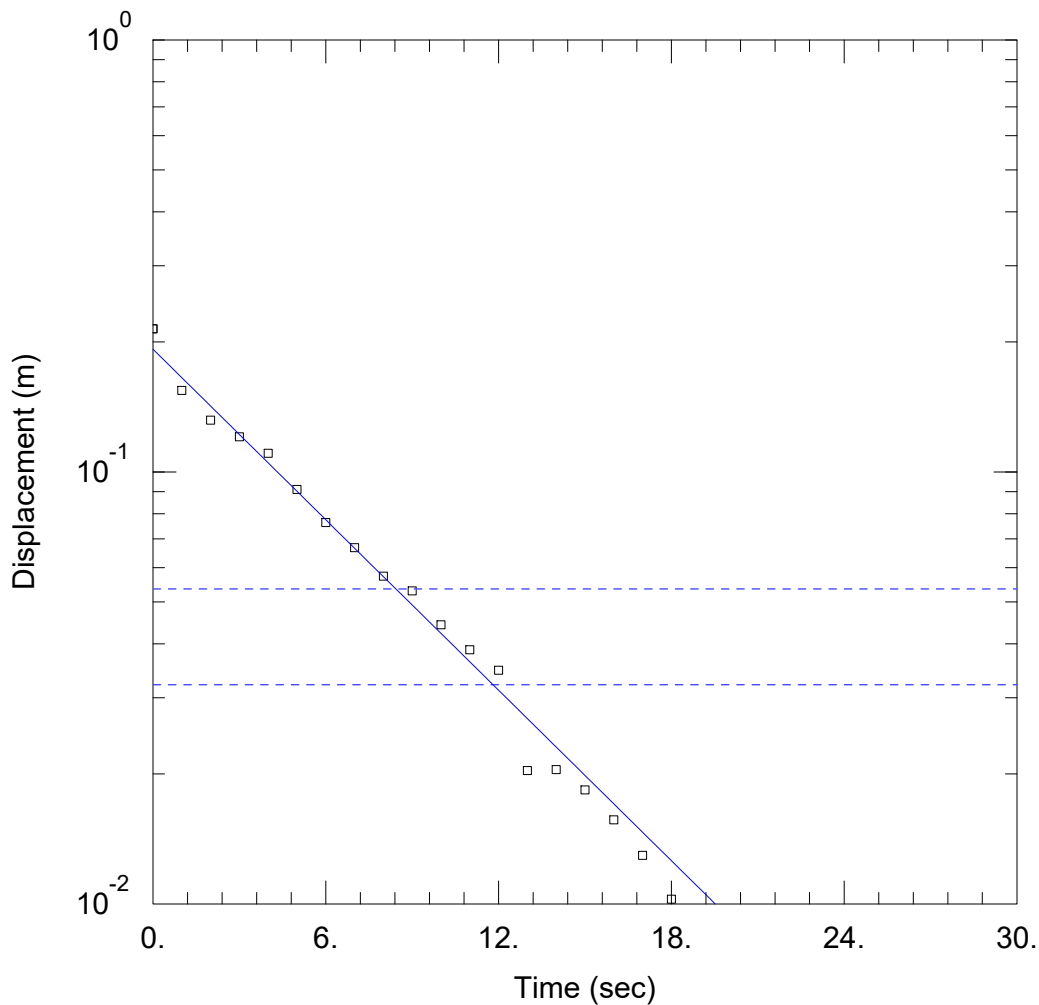
SOLUTION

Aquifer Model: Unconfined

Solution Method: Bouwer-Rice

$K = 4.612$ m/day

$y_0 = 0.01373$ m



WELL TEST ANALYSIS

Data Set: C:\...\GW06B-FH.aqt
 Date: 08/14/26

Time: 14:47:03

PROJECT INFORMATION

Project: J-H-NZ0238 - BOGP GW Consentin

AQUIFER DATA

Saturated Thickness: 3.9 m

Anisotropy Ratio (K_z/K_r): 1.

WELL DATA (GW06B)

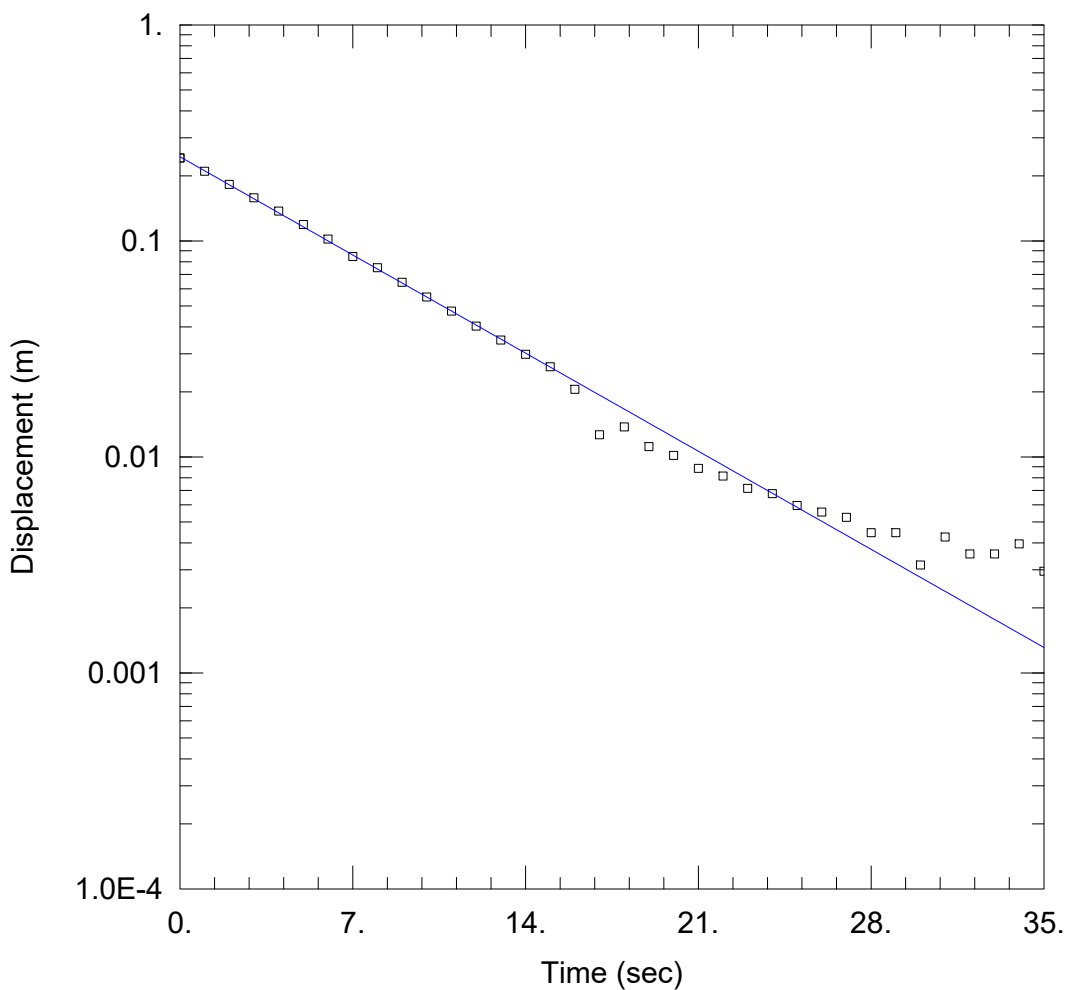
Initial Displacement: 0.2144 m
 Total Well Penetration Depth: 5.6 m
 Casing Radius: 0.025 m

Static Water Column Height: 5.6 m
 Screen Length: 3. m
 Well Radius: 0.05 m

SOLUTION

Aquifer Model: Unconfined
 $K = 6.526$ m/day

Solution Method: Hvorslev
 $y_0 = 0.1923$ m



WELL TEST ANALYSIS

Data Set: C:\...\GW06B-RH.aqt

Date: 08/14/26

Time: 09:12:07

PROJECT INFORMATION

Project: J-H-NZ0238 - BOGP GW Consentin

AQUIFER DATA

Saturated Thickness: 5.6 m

Anisotropy Ratio (K_z/K_r): 1.

WELL DATA (GW06B)

Initial Displacement: 0.242 m

Static Water Column Height: 8.6 m

Total Well Penetration Depth: 8.6 m

Screen Length: 3. m

Casing Radius: 0.025 m

Well Radius: 0.0615 m

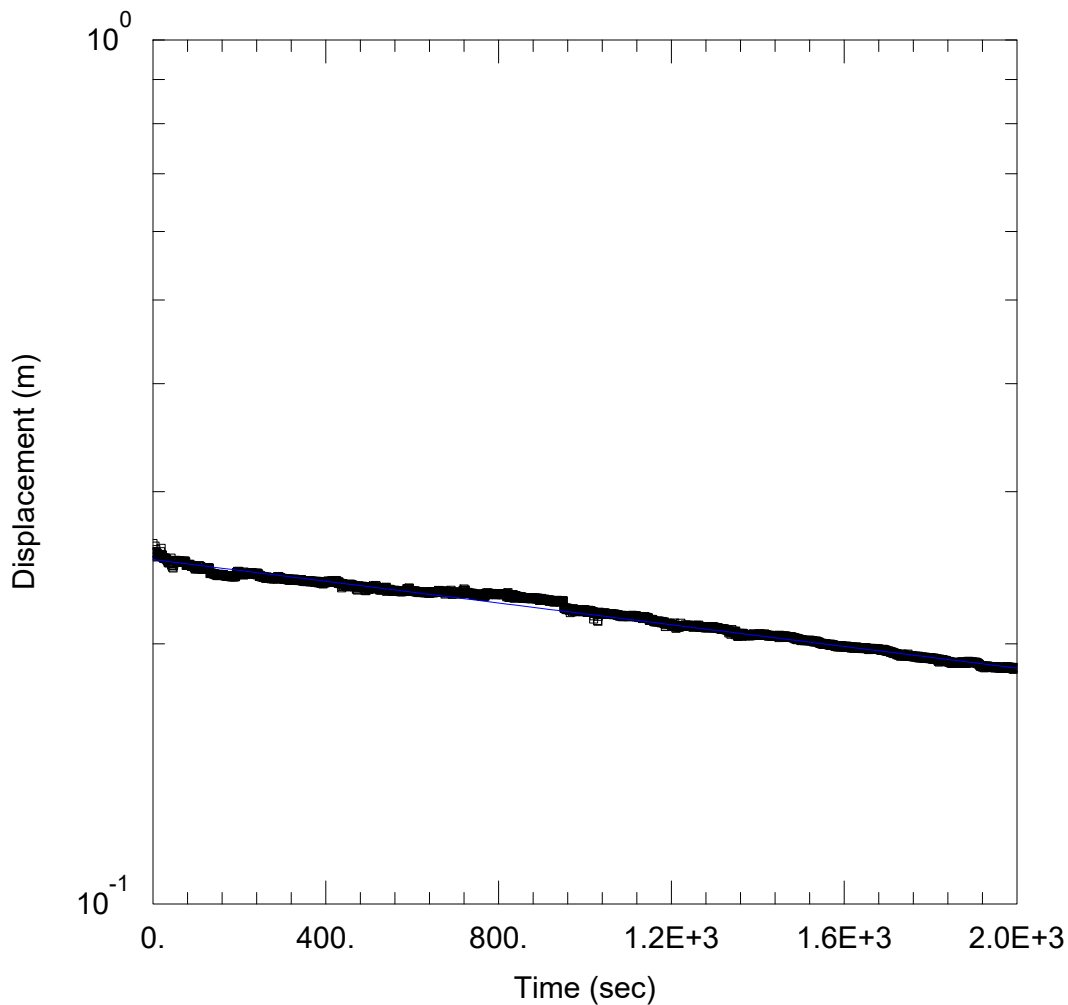
SOLUTION

Aquifer Model: Unconfined

Solution Method: Hvorslev

$K = 6.161$ m/day

$y_0 = 0.2452$ m



WELL TEST ANALYSIS

Data Set: C:\...\GW06C-FH.aqt

Date: 08/14/26

Time: 14:57:56

PROJECT INFORMATION

Project: J-H-NZ0238 - BOGP GW Consent

AQUIFER DATA

Saturated Thickness: 5.6 m

Anisotropy Ratio (K_z/K_r): 1.

WELL DATA (GW06C)

Initial Displacement: 0.2613 m

Static Water Column Height: 10.52 m

Total Well Penetration Depth: 10.5 m

Screen Length: 4.7 m

Casing Radius: 0.025 m

Well Radius: 0.05 m

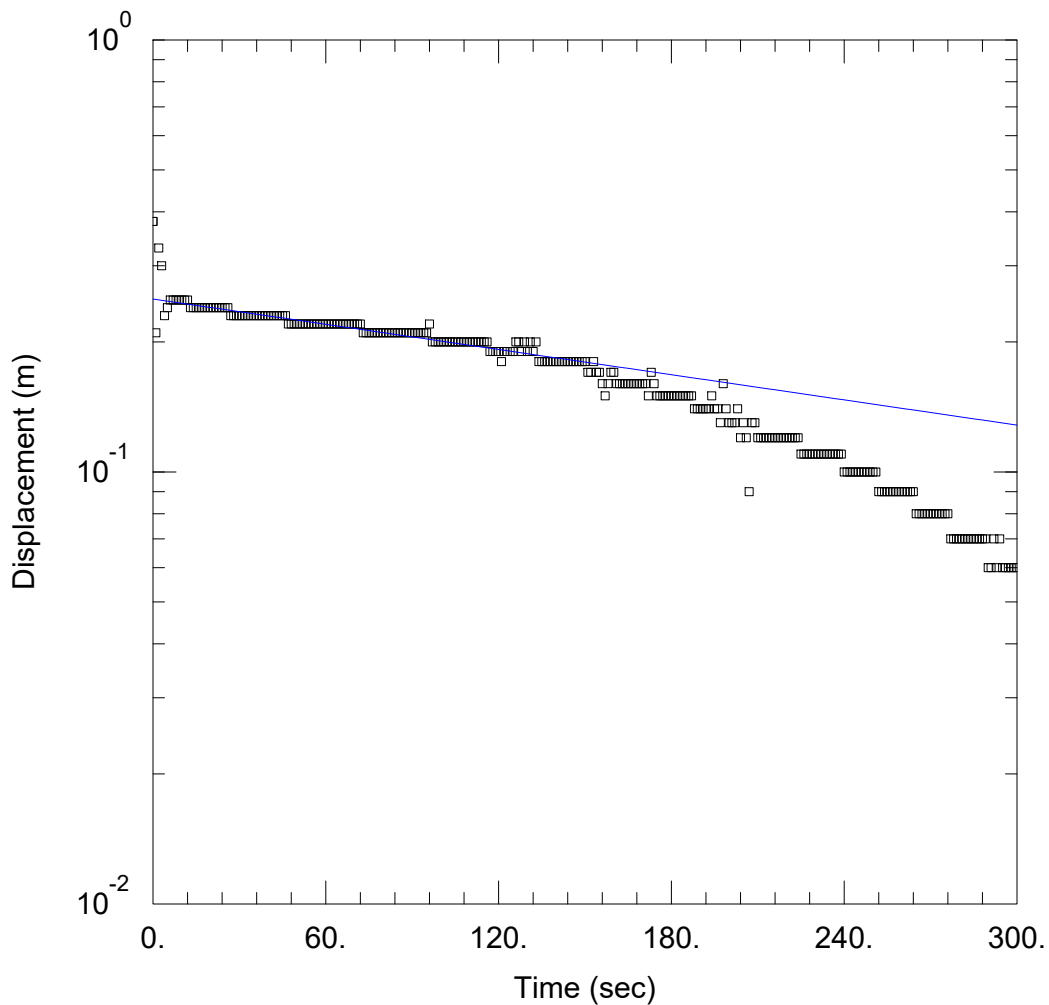
SOLUTION

Aquifer Model: Unconfined

Solution Method: Hvorslev

$K = 5.038E-8$ m/sec

$y_0 = 0.2504$ m



WELL TEST ANALYSIS

Data Set: C:\...\GW19-FH.aqt

Date: 08/16/26

Time: 15:35:20

PROJECT INFORMATION

Project: J-H-NZ0238 - BOGP GW Consent

AQUIFER DATA

Saturated Thickness: 4.6 m

Anisotropy Ratio (K_z/K_r): 1.

WELL DATA (GW19)

Initial Displacement: 0.38 m

Static Water Column Height: 4.26 m

Total Well Penetration Depth: 4.26 m

Screen Length: 3. m

Casing Radius: 0.025 m

Well Radius: 0.05 m

SOLUTION

Aquifer Model: Confined

Solution Method: Hvorslev

$K = 9.55E-7$ m/sec

$y_0 = 0.2512$ m

ATTACHMENT C –GROUNDWATER QUALITY MONITORING RESULTS

					Physicochemical Parameters			Hardness and Alkalinity					Major Ions										
					Total Dissolved Solids (Lab) (filtered)	pH (Lab)	Electrical Conductivity (Non Compensated)	Calcium Hardness	Carbonate Alkalinity	Magnesium Hardness	Soluble Hardness	Total Hardness	Calcium	Calcium (filtered)	Magnesium	Magnesium (filtered)	Sodium	Sodium (filtered)	Potassium	Potassium (filtered)	Chloride (filtered)	Sulfate (filtered)	Fluoride
EQL					3	0.01	10	0.05	1	0.05	0.05	0.05	0.05	0.05	0.01	0.01	0.01	0.01	0.05	0.05	0.5	0.15	0.04
NZ Drinking Water MAV																200					250	250	1.5
ANZECC Irrigation Water (2003)																					350	---	
ANZECC Livestock Drinking Water (2003)																					4000	1000	
Field ID	Area	Monitoring Zone	Date	Sample Code																			
GW01	SC Valley Bottom	Alluvium/colluvium	16 Jul 2026	NH2602912001	324	7.67	552	174	1	89.8	264	289	75.8	69.6	24.3	21.8	13.3	12.6	3.04	2.18	6.5	42.3	0.2
GW02A	SC Valley Bottom	Alluvium/colluvium	31 Jul 2026	NH2603031001	338	7.48	620	178	<1	112	290	329	77.6	71.2	32.9	27.1	16.2	15.1	6.23	2.07	9.7	42.7	0.14
GW02B	SC Valley Bottom	Weathered bedrock	31 Jul 2026	NH2603031002	363	7.55	655	187	<1	129	316	340	84.4	75	31.3	31.3	17.9	17.6	2.88	1.7	12	42.9	0.16
GW02C	SC Valley Bottom	Fresh bedrock	31 Jul 2026	NH2603031003	288	7.78	489	140	1	79.8	220	224	56.9	56	19.8	19.4	17.6	17.3	6.13	6.03	6.7	44.9	0.29
GW03A	SC Valley Bottom	Alluvium/colluvium	22 Jul 2026	NH2602964001	453	7.37	752	201	<1	157	358	369	81.8	80.4	39.9	38.1	19.9	18.9	2.75	2.76	9.6	102	0.15
GW03B	SC Valley Bottom	Weathered bedrock	22 Jul 2026	NH2602964002	381	7.26	664	191	<1	127	318	329	79.8	76.6	31.6	30.8	16.5	15.8	2.23	1.91	6.8	77	0.11
GW03C	SC Valley Bottom	Fresh bedrock	22 Jul 2026	NH2602964003	388	7.73	679	184	1	128	312	344	79.2	73.9	35.6	31.1	30.5	26.1	5.25	4.72	8.2	73.8	0.14
GW06A	SC Valley Bottom	Alluvium/colluvium	23 Jul 2026	NH2602971001	280	7.30	476	149	<1	68.9	218	233	63.1	59.7	18.4	16.7	16.1	14.8	2.08	1.47	4.8	26.7	0.11
GW06B	SC Valley Bottom	Weathered bedrock	23 Jul 2026	NH2602971002	290	7.48	504	145	<1	68.6	214	243	65.3	58.1	19.3	16.7	23.5	20.4	2.89	2.48	5.1	28.8	0.15
GW06C	SC Valley Bottom	Fresh bedrock	23 Jul 2026	NH2602971003	262	7.75	454	101	<1	37.2	138	152	42.8	40.3	11	9.02	56.5	47.9	5.1	4.36	7.2	33.8	0.35
GW010	SC Valley Bottom	Alluvium/colluvium	18 Jun 2026	NH2602639001	374	7.50	630	---	<1	---	---	---	50	72.4	25.2	23	30	27.3	4.29	3.68	14.8	73.8	0.16
GW010	SC Valley Bottom	Alluvium/colluvium	27 Jul 2026	NH2602994001	408	7.53	659	180	<1	102	282	318	80.2	72	28.6	24.9	27.3	24.3	3.16	2.18	14.7	71.6	0.15
GW19	RAS Valley Bottom	Alluvium/colluvium	05 Aug 2026	NH2603070001	152	7.50	265	83.1	<1	22.5	106	111	34.5	33	6.16	5.45	16.7	15	2.26	1.95	2.3	3.3	0.19
MDD500	SC Process Plant Area	Weathered bedrock	17 Jul 2026	NH2602923001	550	7.63	834	---	1	---	---	396	103	87.6	45.2	43	27.3	24.9	2.7	2.61	12.8	148	0.13

BOGP Groundwater Monitoring Results

					Inorganics										Nutrients							
					Dissolved Organic Carbon	Bicarbonate	Bromide (filtered)	Cyanide Total	Germanium	Germanium (filtered)	Lanthanum	Lanthanum (filtered)	Yttrium	Yttrium (filtered)	Nitrogen (Total)	Kjeldahl Nitrogen Total	Nitrate (as N) (filtered)	Nitrite (as N) (filtered)	Ammonia as N (filtered)	Ammoniacal Nitrogen as N	Total Phosphorus (Organic Phosphate)	Total Phosphorus (Organic Phosphate) (filtered)
					mg/L	g CaCO3/m3	µg/L	mg/L	µg/L	µg/L	µg/L	µg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	
EQL					0.005	1	50	0.002	0.05	0.05	0.01	0.01	0.00001	0.00001	0.1	0.1	0.002	0.001	0.005	0.005	0.04	0.04
NZ Drinking Water MAV																11.3	3					
ANZECC Irrigation Water (2003)																						
ANZECC Livestock Drinking Water (2003)																						
Field ID	Area	Monitoring Zone	Date	Sample Code																		
GW01	SC Valley Bottom	Alluvium/colluvium	16 Jul 2026	NH2602912001	<0.005	241	<50	---	0.15	<0.05	1.39	0.02	0.00124	0.00006	0.4	0.1	0.27	<0.001	<0.005	---	0.05	<0.04
GW02A	SC Valley Bottom	Alluvium/colluvium	31 Jul 2026	NH2603031001	3.7	276	---	---	---	---	---	---	---	---	---	---	0.333	---	<0.005	---	---	---
GW02B	SC Valley Bottom	Weathered bedrock	31 Jul 2026	NH2603031002	4.6	293	---	---	---	---	---	---	---	---	---	---	0.416	---	<0.005	---	---	---
GW02C	SC Valley Bottom	Fresh bedrock	31 Jul 2026	NH2603031003	5.6	205	---	---	---	---	---	---	---	---	---	---	0.226	---	<0.005	---	---	---
GW03A	SC Valley Bottom	Alluvium/colluvium	22 Jul 2026	NH2602964001	---	296	---	<0.002	---	---	---	---	---	---	---	---	0.447	---	<0.005	---	---	---
GW03B	SC Valley Bottom	Weathered bedrock	22 Jul 2026	NH2602964002	---	268	---	<0.002	---	---	---	---	---	---	---	---	0.595	---	<0.005	---	---	---
GW03C	SC Valley Bottom	Fresh bedrock	22 Jul 2026	NH2602964003	---	279	---	<0.002	---	---	---	---	---	---	---	---	0.242	---	0.067	---	---	---
GW06A	SC Valley Bottom	Alluvium/colluvium	23 Jul 2026	NH2602971001	---	210	---	---	---	---	---	---	---	---	---	---	1.32	---	<0.005	---	---	---
GW06B	SC Valley Bottom	Weathered bedrock	23 Jul 2026	NH2602971002	---	218	---	---	---	---	---	---	---	---	---	---	1.08	---	<0.005	---	---	---
GW06C	SC Valley Bottom	Fresh bedrock	23 Jul 2026	NH2602971003	---	182	---	---	---	---	---	---	---	---	---	---	0.098	---	0.052	---	---	---
GW010	SC Valley Bottom	Alluvium/colluvium	18 Jun 2026	NH2602639001	4.1	249	100	0.004	0.21	<0.05	1.6	0.02	0.001	0.00004	1.2	0.7	0.508	0.046	<0.005	---	0.54	0.41
GW010	SC Valley Bottom	Alluvium/colluvium	27 Jul 2026	NH2602994001	3.9	247	---	---	---	---	---	---	---	---	---	---	1.1	---	<0.005	<0.005	---	---
GW19	RAS Valley Bottom	Alluvium/colluvium	05 Aug 2026	NH2603070001	3.2	142	---	---	---	---	---	---	---	---	---	---	0.029	---	---	<0.005	---	---
MDD500	SC Process Plant Area	Weathered bedrock	17 Jul 2026	NH2602923001	<0.005	289	110	<0.002	<0.05	<0.05	0.03	<0.01	0.00007	0.00006	0.1	<0.1	0.124	0.001	0.007	---	<0.04	<0.04

					Metals																		
					Aluminium	Aluminium (filtered)	Antimony	Antimony (filtered)	Arsenic	Arsenic (filtered)	Barium	Barium (filtered)	Beryllium	Beryllium (filtered)	Bismuth	Bismuth (filtered)	Boron	Boron (filtered)	Cadmium	Cadmium (filtered)	Cesium	Cesium (filtered)	Chromium (III+VI)
					ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	µg/L	µg/L	ug/L
EQL					3	3	0.1	0.1	0.5	0.5	0.1	0.1	0.01	0.01	0.1	0.1	5	5	0.02	0.02	0.01	0.01	0.2
NZ Drinking Water MAV					1000		20		10		1,500						2400		4				50
ANZECC Irrigation Water (2003)					5000				100								500		10				100
ANZECC Livestock Drinking Water (2003)					5000				500								5000		10				1000
Field ID	Area	Monitoring Zone	Date	Sample Code																			
GW01	SC Valley Bottom	Alluvium/colluvium	16 Jul 2026	NH2602912001	1,790	<3	0.4	0.2	4.6	1	81.9	47.5	0.04	<0.01	<0.1	<0.1	49	40	<0.02	<0.02	0.29	<0.01	2.1
GW02A	SC Valley Bottom	Alluvium/colluvium	31 Jul 2026	NH2603031001	11,700	3	1.1	0.3	32.1	0.8	---	---	---	---	---	---	51	40	0.04	<0.02	---	---	13.1
GW02B	SC Valley Bottom	Weathered bedrock	31 Jul 2026	NH2603031002	147	5	0.2	0.3	1.9	1.5	---	---	---	---	---	---	40	40	<0.02	0.02	---	---	0.9
GW02C	SC Valley Bottom	Fresh bedrock	31 Jul 2026	NH2603031003	321	10	0.9	0.9	4.2	3.1	---	---	---	---	---	---	41	40	0.08	0.07	---	---	0.9
GW03A	SC Valley Bottom	Alluvium/colluvium	22 Jul 2026	NH2602964001	35	<3	0.2	0.2	0.9	0.6	---	---	---	---	---	---	44	40	<0.02	<0.02	---	---	0.4
GW03B	SC Valley Bottom	Weathered bedrock	22 Jul 2026	NH2602964002	767	<3	0.4	0.3	1.9	0.5	---	---	---	---	---	---	58	40	<0.02	<0.02	---	---	1.1
GW03C	SC Valley Bottom	Fresh bedrock	22 Jul 2026	NH2602964003	258	11	1.6	1.4	7	6.9	---	---	---	---	---	---	66	50	0.04	<0.02	---	---	<0.2
GW06A	SC Valley Bottom	Alluvium/colluvium	23 Jul 2026	NH2602971001	1,100	<3	0.5	0.5	1.6	<0.5	---	---	---	---	---	---	42	30	<0.02	<0.02	---	---	1.4
GW06B	SC Valley Bottom	Weathered bedrock	23 Jul 2026	NH2602971002	485	4	2.1	2	5	4	---	---	---	---	---	---	54	50	0.03	<0.02	---	---	0.8
GW06C	SC Valley Bottom	Fresh bedrock	23 Jul 2026	NH2602971003	673	9	12.2	11.2	7.5	7.2	---	---	---	---	---	---	84	70	0.09	0.04	---	---	1.2
GW010	SC Valley Bottom	Alluvium/colluvium	18 Jun 2026	NH2602639001	1,010	4	20	2	1.2	<0.5	---	---	0.06	<0.01	<0.1	<0.1	94	90	0.05	<0.02	0.2	<0.01	2.2
GW010	SC Valley Bottom	Alluvium/colluvium	27 Jul 2026	NH2602994001	2,240	<3	0.3	0.2	1.3	<0.5	---	---	---	---	---	---	101	100	<0.02	<0.02	---	---	48
GW19	RAS Valley Bottom	Alluvium/colluvium	05 Aug 2026	NH2603070001	567	4	0.3	0.3	2.1	0.9	---	---	---	---	---	---	17	20	<0.02	<0.02	---	---	0.5
MDD500	SC Process Plant Area	Weathered bedrock	17 Jul 2026	NH2602923001	12	5	0.2	0.2	<0.5	<0.5	75.7	57.7	<0.01	<0.01	<0.1	<0.1	55	40	<0.02	<0.02	0.04	<0.01	0.8

BOGP Groundwater Monitoring Results

					Metals																		
					Chromium (III+VI) (filtered)	Cobalt	Cobalt (filtered)	Copper	Copper (filtered)	Iron	Iron (filtered)	Lead	Lead (filtered)	Lithium	Lithium (filtered)	Manganese	Manganese (filtered)	Mercury	Mercury (filtered)	Molybdenum	Molybdenum (filtered)	Nickel	Nickel (filtered)
					ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	mg/L	mg/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
EQL					0.2	0.01	0.01	0.2	0.2	5	5	0.05	0.05	0.00001	0.00001	0.5	0.5	0.08	0.08	0.2	0.2	0.2	0.2
NZ Drinking Water MAV								2000		1500		10				400						80	
ANZECC Irrigation Water (2003)						50				5000		5000						2		10		200	
ANZECC Livestock Drinking Water (2003)						1000						100						10		50		1000	
Field ID	Area	Monitoring Zone	Date	Sample Code																			
GW01	SC Valley Bottom	Alluvium/colluvium	16 Jul 2026	NH2602912001	0.5	1.4	0.04	4.5	0.5	2,470	<5	1.83	<0.05	0.0119	0.00865	58.1	1.2	<0.1	<0.08	0.8	0.6	2.1	0.2
GW02A	SC Valley Bottom	Alluvium/colluvium	31 Jul 2026	NH2603031001	<0.2	10.5	0.03	23.2	0.3	19,900	5	15	<0.05	---	---	424	3.1	<0.1	<0.08	1.3	0.9	---	---
GW02B	SC Valley Bottom	Weathered bedrock	31 Jul 2026	NH2603031002	<0.2	0.36	0.26	1.7	0.5	203	<5	0.37	<0.05	---	---	32.2	25.5	<0.1	<0.08	1.9	1.7	---	---
GW02C	SC Valley Bottom	Fresh bedrock	31 Jul 2026	NH2603031003	<0.2	1.03	0.63	2.1	1.3	473	<5	0.5	<0.05	---	---	144	131	<0.1	<0.08	40.7	38.6	---	---
GW03A	SC Valley Bottom	Alluvium/colluvium	22 Jul 2026	NH2602964001	<0.2	0.51	0.45	0.9	0.9	76	<5	0.07	<0.05	---	---	62.7	58.8	<0.1	<0.08	1.2	1	---	---
GW03B	SC Valley Bottom	Weathered bedrock	22 Jul 2026	NH2602964002	<0.2	0.65	0.11	2.1	0.9	1,080	<5	0.79	<0.05	---	---	36.9	7.9	<0.1	<0.08	0.4	0.3	---	---
GW03C	SC Valley Bottom	Fresh bedrock	22 Jul 2026	NH2602964003	<0.2	3.71	3.03	2	1.4	366	<5	0.36	<0.05	---	---	170	145	<0.1	<0.08	3.1	3.1	---	---
GW06A	SC Valley Bottom	Alluvium/colluvium	23 Jul 2026	NH2602971001	<0.2	0.88	0.05	2.2	0.4	1,760	<5	1.55	<0.05	---	---	113	5.9	<0.1	<0.08	1.3	1.3	---	---
GW06B	SC Valley Bottom	Weathered bedrock	23 Jul 2026	NH2602971002	<0.2	0.86	0.45	1.5	0.5	814	<5	0.84	<0.05	---	---	108	37.5	<0.1	<0.08	2.4	2.3	---	---
GW06C	SC Valley Bottom	Fresh bedrock	23 Jul 2026	NH2602971003	<0.2	0.63	0.33	1.2	0.6	931	<5	0.58	<0.05	---	---	63.7	47.5	<0.1	<0.08	46.8	44.6	---	---
GW010	SC Valley Bottom	Alluvium/colluvium	18 Jun 2026	NH2602639001	<0.2	1.59	0.59	14	2.8	1,750	<5	1.53	<0.05	0.012	0.0097	233	159	<0.1	<0.08	7.6	6.5	2.3	0.9
GW010	SC Valley Bottom	Alluvium/colluvium	27 Jul 2026	NH2602994001	0.6	1.27	0.09	8	0.9	3,090	<5	2.51	<0.05	---	---	52.6	7.3	<0.1	<0.08	2.5	1.3	---	---
GW19	RAS Valley Bottom	Alluvium/colluvium	05 Aug 2026	NH2603070001	<0.2	0.64	0.23	1.3	0.9	745	<5	0.76	<0.05	---	---	332	297	<0.1	<0.08	4.2	3.8	---	---
MDD500	SC Process Plant Area	Weathered bedrock	17 Jul 2026	NH2602923001	0.5	0.12	0.04	0.6	0.5	16	<5	0.06	<0.05	0.0214	0.0204	6.3	4.8	<0.1	<0.08	0.8	0.8	0.9	0.9

BOGP Groundwater Monitoring Results

					Metals																		
					Selenium	Selenium (filtered)	Silver	Strontium	Strontium (filtered)	Thallium	Thallium (filtered)	Tin	Tin (filtered)	Titanium	Titanium (filtered)	Rubidium	Rubidium (filtered)	Uranium	Uranium (filtered)	Vanadium	Vanadium (filtered)	Zinc	Zinc (filtered)
					ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	mg/L	mg/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
EQL					0.5	0.5	2	0.1	0.1	0.01	0.01	0.5	0.2	0.002	0.002	0.02	0.02	0.03	0.03	0.5	0.5	1	1
NZ Drinking Water MAV					40												30				3		
ANZECC Irrigation Water (2003)					20														100		2000		
ANZECC Livestock Drinking Water (2003)					50														100		24000		
Field ID	Area	Monitoring Zone	Date	Sample Code																			
GW01	SC Valley Bottom	Alluvium/colluvium	16 Jul 2026	NH2602912001	<1	0.9	---	1,070	1,030	<0.1	<0.01	2.4	4.1	0.048	<0.002	3.5	0.11	7.73	7.54	2.8	<0.5	7	4
GW02A	SC Valley Bottom	Alluvium/colluvium	31 Jul 2026	NH2603031001	<1	0.8	---	1,340	1,210	---	---	---	---	---	---	---	---	9.36	7.44	---	---	46	<1
GW02B	SC Valley Bottom	Weathered bedrock	31 Jul 2026	NH2603031002	<1	0.6	---	1,340	1320	---	---	---	---	---	---	---	---	8.87	8.8	---	---	16	7
GW02C	SC Valley Bottom	Fresh bedrock	31 Jul 2026	NH2603031003	<1	0.6	---	884	837	---	---	---	---	---	---	---	---	6.37	5.91	---	---	5	3
GW03A	SC Valley Bottom	Alluvium/colluvium	22 Jul 2026	NH2602964001	<1	<0.5	---	1,430	1,400	---	---	---	---	---	---	---	---	8.04	7.34	---	---	3	3
GW03B	SC Valley Bottom	Weathered bedrock	22 Jul 2026	NH2602964002	<1	1.1	---	1,320	1,280	---	---	---	---	---	---	---	---	5.05	5.33	---	---	10	7
GW03C	SC Valley Bottom	Fresh bedrock	22 Jul 2026	NH2602964003	<1	0.8	---	3,000	2,600	---	---	---	---	---	---	---	---	6.22	4.75	---	---	153	138
GW06A	SC Valley Bottom	Alluvium/colluvium	23 Jul 2026	NH2602971001	1	1	---	1,160	1,110	---	---	---	---	---	---	---	---	4.12	3.54	---	---	5	<1
GW06B	SC Valley Bottom	Weathered bedrock	23 Jul 2026	NH2602971002	<1	0.8	---	1,370	1,160	---	---	---	---	---	---	---	---	5.14	4.05	---	---	4	2
GW06C	SC Valley Bottom	Fresh bedrock	23 Jul 2026	NH2602971003	<1	<0.5	---	2,660	2,300	---	---	---	---	---	---	---	---	4.88	3.62	---	---	6	4
GW010	SC Valley Bottom	Alluvium/colluvium	18 Jun 2026	NH2602639001	1	0.6	<2	923	839	<0.01	<0.01	1.1	0.9	0.028	<0.002	3.45	1.41	3.99	3.56	1.3	<0.5	43	24
GW010	SC Valley Bottom	Alluvium/colluvium	27 Jul 2026	NH2602994001	2	0.8	---	923	850	---	---	---	---	---	---	---	---	4.5	4.25	---	---	16	2
GW19	RAS Valley Bottom	Alluvium/colluvium	05 Aug 2026	NH2603070001	<1	<0.5	---	532	483	---	---	---	---	---	---	---	---	3.85	3.59	---	---	4	2
MDD500	SC Process Plant Area	Weathered bedrock	17 Jul 2026	NH2602923001	1	1.3	---	1,650	1,620	<0.01	<0.01	<0.5	<0.2	<0.002	<0.002	1.34	1.29	13.5	13	<0.5	<0.5	11	9