

# Bore construction report (Form A)



**!** You can enter and submit this report directly via our online drillers portal. Keep electronic records by registering at [driller.waternsw.com.au](http://driller.waternsw.com.au)

## Section 1 Driller's details

Driller's licence number	
Class of licence	
Driller's name	
Assistant driller	
Contractor	
New bore <input type="checkbox"/> Replacement bore <input type="checkbox"/> Deepened <input type="checkbox"/> Enlarged <input type="checkbox"/> Reconditioned <input type="checkbox"/> Other (specify) <input type="checkbox"/>	
Final depth	<input type="text"/> m

## Section 2 Approval details

Work approval number	
Name of approval holder	
Intended use	
Completion date	

## Section 3 Drilling details

From (m)	To (m)	Hole diameter (mm)	Drilling method
			See code table 3

## Section 4 Water bearing zones

From (m)	To (m)	Thickness (m)	SWL (m)	Estimated yield (L/s)		Test method	DDL at end of test (m)	Duration		Salinity (Conductivity or TDS)	
				Individual aquifer	Cumulative			hrs	min	Cond (µS/cm)	TDS (mg/L)
						See code 4					

## Section 5 Casing/Liner details

Material	OD (mm)	Wall thickness (mm)	From (m)	To (m)	Method Fixing
Code 5					Code 5

Casing support method	See code 5
Type of casing bottom	See code 5
Centralisers installed?*	<input type="checkbox"/> Yes <input type="checkbox"/> No (*Indicate on sketch)
Sump installed?	<input type="checkbox"/> Yes <input type="checkbox"/> No From <input type="text"/> m To <input type="text"/> m
Pressure cemented?	<input type="checkbox"/> Yes <input type="checkbox"/> No From <input type="text"/> m To <input type="text"/> m
Casing protector cemented in place?	<input type="checkbox"/> Yes <input type="checkbox"/> No

## Section 6 Water entry design

General							Screen	Slot details		
Material	OD (mm)	Wall Thickness (mm)	From (m)	To (m)	Opening type	Fixing	Aperture (mm)	Length (mm)	Width (mm)	Alignment
Code 5					See code 6	See code 5				See code 6

## Section 7 Gravel pack

Type	Grade	Grain size (mm)		Depth (m)		Quantity	
		From	To	From	To	Litres	m <sup>3</sup>
Rounded <input type="checkbox"/>	Graded <input type="checkbox"/>						
Crushed <input type="checkbox"/>	Ungraded <input type="checkbox"/>						
Bentonite/Grout seal <input type="checkbox"/> Yes <input type="checkbox"/> No							
Method of placement of gravel pack		See code 7					

For WaterNSW use only	<b>G</b>	<b>W</b>							
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## Bore construction report (Form A)

Work approval number

### Section 8 Bore development

Chemical used for breaking down drilling mud? <input type="checkbox"/> Yes <input type="checkbox"/> No		Name <input type="text"/>	
Method	Bailing/Surging <input type="checkbox"/>	Jetting <input type="checkbox"/>	Airlifting <input type="checkbox"/>
	Backwashing <input type="checkbox"/>	Pumping <input type="checkbox"/>	Other <input type="text"/>
Duration	<input type="text"/> hrs	<input type="text"/> hrs	<input type="text"/> hrs

### Section 9 Disinfection on completion

Chemical(s) used	Quantity applied (Litres)	Method of application
<input type="text"/>	<input type="text"/>	<input type="text"/>

### Section 10 Pumping tests on completion

Test type	Date	Pump intake depth (m)	Initial water level (SWL) (m)	Pumping rate (L/s)	Water Level at end of pumping (DDL) (m)	Duration of test (hrs)	Recovery		
							Water level (m)	Time taken	
								hrs	mins
Multi stage (stepped drawdown)	Stage 1								
	Stage 2								
	Stage 3								
	Stage 4								
Single stage (constant rate)									
Height of measuring point above ground level				m	Test method	See code 4			

### Section 11 Work partly backfilled or abandoned

Original depth of work <input type="text"/> m	Is work partly backfilled? <input type="checkbox"/> Yes <input type="checkbox"/> No				
Is work abandoned? <input type="checkbox"/> Yes <input type="checkbox"/> No	Method of abandonment Backfilled <input type="checkbox"/> Plugged <input type="checkbox"/> Capped <input type="checkbox"/>				
Has any casing been left in the work? <input type="checkbox"/> Yes <input type="checkbox"/> No	From <input type="text"/> m To <input type="text"/> m				
Sealing/fill type	From depth (m)	To depth (m)	Sealing/fill type	From depth (m)	To depth (m)
See code 11			See code 11		
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

### Section 12 Site chosen by

Hydrogeologist  Geologist  Driller  Diviner  Client  Other

### Section 13 Location

Lot No <input type="text"/>	DP No <input type="text"/>	
Work location co-ordinates	Latitude <input type="text"/>	Longitude <input type="text"/>
GPS <input type="checkbox"/> Yes <input type="checkbox"/> No	AMG/AGD <input type="checkbox"/> or MGA/GDA <input type="checkbox"/>	(See explanation)

Please mark the work site with "X" on the CLID provided map.

Indicate also the distances in metres from the (2) adjacent boundaries, and attach the map to this Form A package.

### Section 14 Signatures

Driller's name <input type="text"/>	Driller's signature <input type="text"/>	Date <input type="text"/>
Approval holder name <input type="text"/>	Approval holder signature <input type="text"/>	Date <input type="text"/>



## Code tables

Section 3 Drilling method			
1	Auger - Hollow Flight	9	Rotary - Percussion - (Down Hole Hammer)
2	Auger - Solid Flight	10	Rotary - Percussion - Foam injection
3	Cable Tool - Drill and Drive Casing	11	Rotary - Reverse circulation - Air
4	Cable Tool - Mud stabilised	12	Rotary - Reverse circulation - Mud
5	Rotary Air	13	Rotary - Coring
6	Rotary - Air/foam	14	Jetted - Air
7	Rotary - Mud	15	Jetted - Water
8	Rotary - Water	16	Other - See page 2, No 11

Section 4 Water bearing zones							
Test method				Flow measuring device			
1	Airlift	6	Pump - Helical Rotor	A	Container of known volume	F	Weir - Rectangular
2	Bailer	7	Pump - Jet	B	Flow meter	G	Weir - V Notch - 60°
3	Pump - Centrifugal	8	Pump - Turbine	C	Flume	H	Weir - V Notch - 90°
4	Pump - Cylinder	9	Freeflow	D	Orifice, plate & manometer	I	Other
5	Pump - Electric submersible			E	Ultra sonic meter		

Section 5 Casing/Liner details									
Material				Method of fixing					
1	A.B.S.	6	PVC - Class 12	11	Steel - Stainless	1	Glued	6	Welded - Butt
2	Aluminium	7	PVC - Class 15	12	Steel - Stainless 304	2	Kwik-lock	7	Welded - Collar
3	Concrete cylinder	8	PVC - Class 18	13	Steel - Stainless 316	3	Packer	8	Other
4	Fibre glass (FRP)	9	Steel - ERW	14	Other	4	Riveted		
5	PVC - Class 9	10	Steel - Galvanised			5	Screwed		

Casing support method				Type of casing bottom			
1	Driven into small hole	5	Held in clamp	1	Open end	5	Casing shoe
2	Seated on bottom	6	Other	2	End cap	6	Wash down shoe
3	Seated on backfill			3	Plug - concrete	7	Cementing shoe
4	Cemented			4	Plug - wood	8	Other

Section 6 Water entry design							
Opening type				Slot alignment			
1	Casing - Bridge slot	7	Casing - Plasma-cut slot	D	Diagonal		
2	Casing - Drilled holes	8	Casing - Perforated in hole	H	Horizontal		
3	Casing - Hand sawn slot	9	Screen - gauze / mesh	V	Vertical		
4	Casing - Louvre slot	10	Screen - round wire	For MATERIAL and FIXING codes please refer to codes in Section 5 Casing/Liner details.			
5	Casing - Machine slotted	11	Screen - wedge wire				
6	Casing - Oxy cut slot						

Section 7 Gravel pack - method of placement					
1	Poured or shovelled into annulus	2	Placed through tremie pipe	3	Reverse circulated

Section 11 Work partly backfilled or abandoned - Sealing material							
1	Cement grout	3	Bentonite	5	Clay	7	Gravel
2	Concrete	4	Drilled cuttings	6	Sand	8	Coarse stone

Section 15 Driller's rock/Strata description					
Reporting sequence	1 Rock type	2 Colour	3 Grain size	4 Texture	To save confusion, write the full name of colour and abbreviate the following: light = lt, dark = dk, fine grained = fg, medium grained = mg, coarse grained = cg. Texture can relate to: weathered, fractured, broken, hard, soft etc.
Example	Sandstone	Dk Grey	mg	Fractured	