

MONITORING WELL GW1-3

URS Australia Pty Ltd Level 3, 93 Mitchell St DARWIN NT 0800		Phone (08) 8980 2900 Fax (08) 8941 3920		Project Reference: Shoal Bay Hydrogeological Drilling		Client: John Holland	
Drilling Contractor: Bores NT				Project No.: 42214019		Location: Shoal Bay Landfill	
Logged By: K Treglown		Bore Size: 107 mm		Relative Level: 8.63		Drill Type: Air Rotary	
Checked By: C MacHunter		Total Depth: 3.00 m		Coordinates: 8631004.40 mN		Drill Model: Sonic Samp Drill	
Date Started: 18-8-15		Casing Size: 50 mm		Coordinates: 709564.36 mE		Drill Fluid: Nil	
Date Finished: 18-8-15				Permit No.: RN39234			

Depth (m)	Method	Casing	Penetration			Legend	Classification	USC DESCRIPTION OF STRATA Type, plasticity / particle size, colour, secondary / minor components (e.g., "trace"), moisture content, consistency / density, and additional observations	Moisture	Consistency	Relative Density	Sample Interval	PID (ppm)	Sample ID	WELL CONSTRUCTION DETAILS
			S	M	HR										
0							TOPSOIL; Silt, brown, some organic material.	D							
1							SILTSTONE; Pink/white/purple, slightly weathered.	D							
2							SILTSTONE; Light brown, slightly weathered.	D							
3															
4															
5															
6															
7															
8															
9															

MONITORING WELL GW1-12

URS Australia Pty Ltd Level 3, 93 Mitchell St DARWIN NT 0800		Phone (08) 8980 2900 Fax (08) 8941 3920	Project Reference: Shoal Bay Hydrogeological Drilling	Client: John Holland
Drilling Contractor: Bores NT			Project No.: 42214019	Location: Shoal Bay Landfill
Logged By: K Treglown	Bore Size: 107 mm	Relative Level: 8.59	Drill Type: Air Rotary	
Checked By: C MacHunter	Total Depth: 12.00 m	Coordinates: 8631004.14 mN	Drill Model: Sonic Samp Drill	
Date Started: 18-8-15	Casing Size: 50 mm	709566.34 mE	Drill Fluid: Nil	
Date Finished: 18-8-15		Permit No.: RN39235		

Depth (m)	Method Casing	Penetration S M HR	Legend	Classification	USC DESCRIPTION OF STRATA Type, plasticity / particle size, colour, secondary / minor components (e.g., "trace"), moisture content, consistency / density, and additional observations	Moisture	Consistency	Relative Density	Sample Interval	PID (ppm)	Sample ID	WELL CONSTRUCTION DETAILS	
												Steel Monument	Top Cap
0					TOPSOIL; Silt, brown, some organic material. SILTSTONE; Pink/white/purple, slightly weathered.	D							
1													
2					SILTSTONE; Light brown, slightly weathered.	D							
3					SILTSTONE; Light brown/red, slightly weathered.	D							
4													
5													
6					SILTSTONE; Yellow/orange/grey, minor clay - low plasticity, slightly weathered.	D/M							
7													
8					SILTSTONE; Red/orange/yellow, minor clay, brittle, slightly weathered.	D/M							
9					SILTSTONE; Yellow/orange, minor clay, brittle, slightly weathered.	D/M							

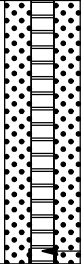

MONITORING WELL GW1-12

URS Australia Pty Ltd
Level 3, 93 Mitchell St DARWIN NT 0800

Phone (08) 8980 2900
Fax (08) 8941 3920

Project No.: **42214019**

Project Reference: **Shoal Bay Hydrogeological Drilling**

Depth (m)	Method	Casing	Penetration			Legend	Classification	USC DESCRIPTION OF STRATA Type, plasticity / particle size, colour, secondary / minor components (e.g., "trace"), moisture content, consistency / density, and additional observations	Moisture	Consistency	Relative Density	Sample Interval	PID (ppm)	Sample ID	WELL CONSTRUCTION DETAILS
			S	M	H										
10						x x x x		SILTSTONE; Orange/white/yellow, minor clay, brittle, slightly weathered.	D/M						
11						x x x x		SILTSTONE; Orange/white/yellow, minor clay, brittle, slightly weathered.	D/M						
12						x x x x									 End Cap
13															
14															
15															
16															
17															
18															
19															
20															
21															

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MONITORING WELL GW2-3

URS Australia Pty Ltd Level 3, 93 Mitchell St DARWIN NT 0800		Phone (08) 8980 2900 Fax (08) 8941 3920	Project Reference: Shoal Bay Hydrogeological Drilling	Client: John Holland
Drilling Contractor: Bores NT		Project No.: 42214019	Location: Shoal Bay Landfill	
Logged By: K Treglown	Bore Size: 107 mm	Relative Level: 7.94	Drill Type: Air Rotary	
Checked By: C MacHunter	Total Depth: 3.00 m	Coordinates: 8630834.63 mN	Drill Model: Sonic Samp Drill	
Date Started: 19-8-15	Casing Size: 50 mm	709629.19 mE	Drill Fluid: Nil	
Date Finished: 19-8-15		Permit No: RN39232		

Depth (m)	Method	Casing	Penetration			Legend	Classification	USC DESCRIPTION OF STRATA Type, plasticity / particle size, colour, secondary / minor components (e.g., "trace"), moisture content, consistency / density, and additional observations	Moisture	Consistency	Relative Density	Sample Interval	PID (ppm)	Sample ID	WELL CONSTRUCTION DETAILS
			S	M	HR										
0							TOPSOIL; Gravelly Silt, brown.	D							
0-1							SILTSTONE; White/minor purple, slightly weathered.	D							
1-2							SILTSTONE; Pink/white/purple, slightly weathered.	D							
2-3															
3-4															
4-5															
5-6															
6-7															
7-8															
8-9															

MONITORING WELL GW2-12

URS Australia Pty Ltd Level 3, 93 Mitchell St DARWIN NT 0800		Phone (08) 8980 2900 Fax (08) 8941 3920	Project Reference: Shoal Bay Hydrogeological Drilling	Client: John Holland
Drilling Contractor: Bores NT			Project No.: 42214019	Location: Shoal Bay Landfill
Logged By: K Treglown	Bore Size: 107 mm	Relative Level: 7.94	Drill Type: Air Rotary	
Checked By: C MacHunter	Total Depth: 12.00 m	Coordinates: 8630834.64 mN	Drill Model: Sonic Samp Drill	
Date Started: 19-8-15	Casing Size: 50 mm	709631.12 mE	Drill Fluid: Nil	
Date Finished: 19-8-15		Permit No.: RN39233		

Depth (m)	Method Casing	Penetration S M HR	Legend	Classification	USC DESCRIPTION OF STRATA Type, plasticity / particle size, colour, secondary / minor components (e.g., "trace"), moisture content, consistency / density, and additional observations	Moisture	Consistency	Relative Density	Sample Interval	PID (ppm)	Sample ID	WELL CONSTRUCTION DETAILS	
												Steel Monument	Top Cap
0					TOPSOIL; Gravelly Silt, brown. SILTSTONE; Pink/white/purple, slightly weathered.	D							
1													
2													
3					SILTSTONE; Light brown/light red, slightly weathered.	D							
4													
5					SILTSTONE; Red/minor white mottle, slightly weathered.	D							
6					SILTSTONE; Yellow/orange, minor clay, brittle, slightly weathered.	D							
7					SILTSTONE; Red/light purple/yellow, minor clay content, brittle, slightly weathered.	D							
8					SILTSTONE; Yellow/light purple/red, minor clay content, brittle, slightly weathered.	D							
9					SILTSTONE; Orange/yellow, minor clay content, brittle, slightly weathered.	M							

MONITORING WELL GW3-3

URS Australia Pty Ltd
Level 3, 93 Mitchell St DARWIN NT 0800

Phone (08) 8980 2900
Fax (08) 8941 3920

Project Reference: **Shoal Bay Hydrogeological Drilling**

Client: **John Holland**

Drilling Contractor: **Bores NT**

Project No.: **42214019**

Location: **Shoal Bay Landfill**

Logged By: **K Treglown**
Checked By: **C MacHunter**
Date Started: **18-8-15**
Date Finished: **18-8-15**

Bore Size: **107 mm**
Total Depth: **3.00 m**
Casing Size: **50 mm**

Relative Level: **9.80**
Coordinates: **8630746.18 mN**
709652.49 mE
Permit No.: **RN39231**

Drill Type: **Air Rotary**
Drill Model: **Sonic Samp Drill**
Drill Fluid: **Nil**

Depth (m)	Method	Casing	Penetration			Legend	Classification	USC DESCRIPTION OF STRATA Type, plasticity / particle size, colour, secondary / minor components (e.g., "trace"), moisture content, consistency / density, and additional observations	Moisture	Consistency	Relative Density	Sample Interval	PID (ppm)	Sample ID	WELL CONSTRUCTION DETAILS	
			S	M	H										R	Steel Monument
0						xxxxx		SILTSTONE; Pink/purple/white, minor gravel, slightly weathered.	D						Steel Monument	Top Cap
1						xxxxx		SILTSTONE; Pink/purple/white, slightly weathered.	D						Cement	50 mm diameter PVC casing
2						xxxxx									2mm Gravel pack	50 mm diameter slotted PVC casing
3						xxxxx										End Cap
4																
5																
6																
7																
8																
9																

MONITORING WELL GW3-12

URS Australia Pty Ltd Level 3, 93 Mitchell St DARWIN NT 0800		Phone (08) 8980 2900 Fax (08) 8941 3920	Project Reference: Shoal Bay Hydrogeological Drilling	Client: John Holland
Drilling Contractor: Bores NT			Project No.: 42214019	Location: Shoal Bay Landfill
Logged By: K Treglown	Bore Size: 107 mm	Relative Level: 9.82	Drill Type: Air Rotary	
Checked By: C MacHunter	Total Depth: 12.00 m	Coordinates: 8630746.02 mN	Drill Model: Sonic Samp Drill	
Date Started: 18-8-15	Casing Size: 50 mm	709654.26 mE	Drill Fluid: Nil	
Date Finished: 18-8-15		Permit No.: RN39230		

Depth (m)	Method	Casing	Penetration			Legend	Classification	USC DESCRIPTION OF STRATA Type, plasticity / particle size, colour, secondary / minor components (e.g., "trace"), moisture content, consistency / density, and additional observations	Moisture	Consistency	Relative Density	Sample Interval	PID (ppm)	Sample ID	WELL CONSTRUCTION DETAILS	
			S	M	H										R	Steel Monument
0						XXXXXX	SILTSTONE; Pink/purple/white, minor gravel, slightly weathered.	D								
1						XXXXXX	SILTSTONE; Red/purple/orange/white, slightly weathered.	D								
2						XXXXXX	SILTSTONE; Red/purple/white, slightly weathered.	D								
3						XXXXXX	SILTSTONE; White/pink, slightly weathered.	D								
4						XXXXXX	SILTSTONE; White/pink/light brown, slightly weathered.	D								
5						XXXXXX	SILTSTONE; White/pink/grey/purple, slightly weathered.	D								
6						XXXXXX										
7						XXXXXX										
8						XXXXXX	SILTSTONE; Orange/ light purple, slightly weathered.	D								
9						XXXXXX										

MONITORING WELL GW4-3

URS Australia Pty Ltd
Level 3, 93 Mitchell St DARWIN NT 0800

Phone (08) 8980 2900
Fax (08) 8941 3920

Project Reference: **Shoal Bay Hydrogeological Drilling**

Client: **John Holland**

Drilling Contractor: **Bores NT**

Project No.: **42214019**

Location: **Shoal Bay Landfill**

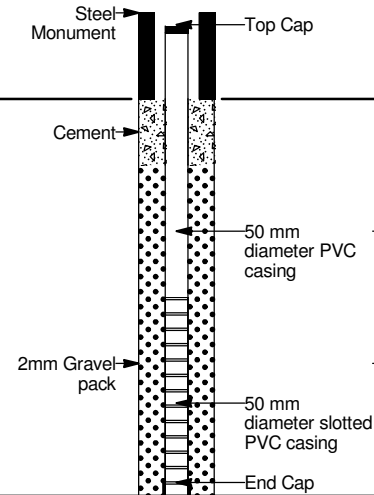
Logged By: **K Treglown**
Checked By: **C MacHunter**
Date Started: **18-8-15**
Date Finished: **18-8-15**

Bore Size: **107 mm**
Total Depth: **3.00 m**
Casing Size: **50 mm**

Relative Level: **5.49**
Coordinates: **8630634.09 mN**
709775.36 mE
Permit No: **RN39227**

Drill Type: **Air Rotary**
Drill Model: **Sonic Samp Drill**
Drill Fluid: **Nil**

Depth (m)	Method	Casing	Penetration			Legend	Classification	USC DESCRIPTION OF STRATA Type, plasticity / particle size, colour, secondary / minor components (e.g., "trace"), moisture content, consistency / density, and additional observations	Moisture	Consistency	Relative Density	Sample Interval	PID (ppm)	Sample ID	WELL CONSTRUCTION DETAILS	
			S	M	H										R	Steel Monument
0						x o	Gravelly SILT	D								
1						x x	SILTSTONE; Orange/white, slightly weathered.	D								
2						x x	SILTSTONE; Orange/white/light red, slightly weathered.	D								
3						x x										
4						x x										
5						x x										
6						x x										
7						x x										
8						x x										
9						x x										



MONITORING WELL GW4-12

URS Australia Pty Ltd Level 3, 93 Mitchell St DARWIN NT 0800		Phone (08) 8980 2900 Fax (08) 8941 3920	Project Reference: Shoal Bay Hydrogeological Drilling	Client: John Holland
Drilling Contractor: Bores NT			Project No.: 42214019	Location: Shoal Bay Landfill
Logged By: K Treglown	Bore Size: 107 mm	Relative Level: 5.44	Drill Type: Air Rotary	
Checked By: C MacHunter	Total Depth: 12.00 m	Coordinates: 8630632.64 mN	Drill Model: Sonic Samp Drill	
Date Started: 18-8-15	Casing Size: 50 mm	709776.29 mE	Drill Fluid: Nil	
Date Finished: 18-8-15		Permit No: RN39228		

Depth (m)	Method	Casing	Penetration			Legend	Classification	USC DESCRIPTION OF STRATA Type, plasticity / particle size, colour, secondary / minor components (e.g., "trace"), moisture content, consistency / density, and additional observations	Moisture	Consistency	Relative Density	Sample Interval	PID (ppm)	Sample ID	WELL CONSTRUCTION DETAILS	
			S	M	H										R	Steel Monument
0							SILTSTONE; Light orange, slightly weathered.	D								
1							SILTSTONE; White/light red, slightly weathered.	D								
2							SILTSTONE; White/light red/red, slightly weathered.	D								
3							SILTSTONE; White/light red/orange, slightly weathered.	D								
4							SILTSTONE; White/orange, slightly weathered.	D								
5							SILTSTONE; Orange/brown/red, minor clay, brittle, slightly weathered.	D								
6							SILTSTONE Clay; Orange/red, minor clay, brittle, slightly weathered.	D								
7																
8																
9																

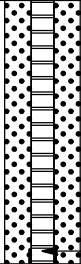
MONITORING WELL GW4-12

URS Australia Pty Ltd
Level 3, 93 Mitchell St DARWIN NT 0800

Phone (08) 8980 2900
Fax (08) 8941 3920

Project No.: **42214019**

Project Reference: **Shoal Bay Hydrogeological Drilling**

Depth (m)	Method	Casing	Penetration			Legend	Classification	USC DESCRIPTION OF STRATA Type, plasticity / particle size, colour, secondary / minor components (e.g., "trace"), moisture content, consistency / density, and additional observations	Moisture	Consistency	Relative Density	Sample Interval	PID (ppm)	Sample ID	WELL CONSTRUCTION DETAILS
			S	M	H										
10						XXXXX		SILTSTONE; Yellow/white, minor clay, brittle, slightly weathered.	D						 <p>End Cap</p>
11						XXXXX									
12						XXXXX									
13						XXXXX									
14						XXXXX									
15						XXXXX									
16						XXXXX									
17						XXXXX									
18						XXXXX									
19						XXXXX									
20						XXXXX									
21						XXXXX									

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MONITORING WELL GW4-30

URS Australia Pty Ltd Level 3, 93 Mitchell St DARWIN NT 0800		Phone (08) 8980 2900 Fax (08) 8941 3920	Project Reference: Shoal Bay Hydrogeological Drilling	Client: John Holland
Drilling Contractor: Bores NT			Project No.: 42214019	Location: Shoal Bay Landfill
Logged By: K Treglown/J Dwyer	Bore Size: 107 mm	Relative Level: 5.20	Drill Type: Air Rotary/Sonic	
Checked By: C MacHunter	Total Depth: 30.00 m	Coordinates: 8630631.14 mN	Drill Model: Sonic Samp Drill	
Date Started: 18-8-15	Casing Size: 50 mm	709777.27 mE	Drill Fluid: Drill Mud	
Date Finished: 24-8-15		Permit No: RN39229		

Depth (m)	Method	Casing	Penetration			Legend	Classification	USC DESCRIPTION OF STRATA Type, plasticity / particle size, colour, secondary / minor components (e.g., "trace"), moisture content, consistency / density, and additional observations	Moisture	Consistency	Relative Density	Sample Interval	PID (ppm)	Sample ID	WELL CONSTRUCTION DETAILS	
			S	M	H										R	Steel Monument
0						XXXXXX	SILTSTONE; Light orange/white, slightly weathered.	D								
1						XXXXXX	SILTSTONE; White/light red, slightly weathered.	D								
2						XXXXXX										
3						XXXXXX	SILTSTONE; White/red/minor purple, slightly weathered.	D								
4						XXXXXX	SILTSTONE; White/red/orange, slightly weathered.	D								
5						XXXXXX										
6						XXXXXX	SILTSTONE; White/orange, slightly weathered.	D								
7						XXXXXX	SILTSTONE; Orange/red, minor clay, brittle, slightly weathered.	D								
8						XXXXXX										
9						XXXXXX	SILTSTONE; Orange/red, minor gravel, sub rounded, slightly weathered.	D								

MONITORING WELL GW4-30

URS Australia Pty Ltd
Level 3, 93 Mitchell St DARWIN NT 0800

Phone (08) 8980 2900
Fax (08) 8941 3920

Project No.: **42214019**

Project Reference: **Shoal Bay Hydrogeological Drilling**

Depth (m)	Method	Casing	Penetration			Legend	Classification	USC DESCRIPTION OF STRATA Type, plasticity / particle size, colour, secondary / minor components (e.g., "trace"), moisture content, consistency / density, and additional observations	Moisture	Consistency	Relative Density	Sample Interval	PID (ppm)	Sample ID	WELL CONSTRUCTION DETAILS
			S	M	H										
10						XXXXXX	SILTSTONE; Yellow, minor clay, brittle, slightly weathered.	D							<p>50 mm diameter slotted PVC casing</p> <p>2mm Gravel pack</p>
11						XXXXXX	SILTSTONE; Yellow/white, slightly weathered.	D							
12						XXXXXX									
13						XXXXXX	Clayey SILT; Yellow.	W							
14						XXXXXX	Silty GRAVEL; sub angular, sub rounded.	W							
15						XXXXXX	Gravelly SAND; Yellow, sub rounded gravel to 4cm, coarse sand.	W							
16						XXXXXX	Gravelly SAND; Yellow, rounded/sub rounded gravel to 5-6cm.	W							
17						XXXXXX	SANDSTONE; Yellow, minor sub rounded/rounded gravel, coarse grained sand (~1mm).	W							
18						XXXXXX									
19						XXXXXX	SANDSTONE; Light yellow, coarse grained sand (~1mm).	W							
20						XXXXXX									
21						XXXXXX	SANDSTONE; Orange/yellow.								

MONITORING WELL GW4-30

URS Australia Pty Ltd
Level 3, 93 Mitchell St DARWIN NT 0800

Phone (08) 8980 2900
Fax (08) 8941 3920

Project No.: **42214019**

Project Reference: **Shoal Bay Hydrogeological Drilling**

Depth (m)	Method	Casing	Penetration			Legend	Classification	USC DESCRIPTION OF STRATA Type, plasticity / particle size, colour, secondary / minor components (e.g., "trace"), moisture content, consistency / density, and additional observations	Moisture	Consistency Relative Density	Sample Interval PID (ppm)	Sample ID	WELL CONSTRUCTION DETAILS
			S	M	H								
22							SANDSTONE; White.						<p>50 mm diameter PVC casing</p> <p>End Cap</p>
23													
24													
25													
26													
27							SANDSTONE; Light brown.						
28													
29													
30													
31													
32													
33													

MONITORING WELL GW5-3

URS Australia Pty Ltd Level 3, 93 Mitchell St DARWIN NT 0800		Phone (08) 8980 2900 Fax (08) 8941 3920		Project Reference: Shoal Bay Hydrogeological Drilling		Client: John Holland	
Drilling Contractor: Bores NT				Project No.: 42214019		Location: Shoal Bay Landfill	
Logged By: K Treglown		Bore Size: 107 mm		Relative Level: 5.41		Drill Type: Air Rotary	
Checked By: C MacHunter		Total Depth: 3.00 m		Coordinates: 8630224.39 mN		Drill Model: Sonic Samp Drill	
Date Started: 18-8-15		Casing Size: 50 mm		Coordinates: 709880.00 mE		Drill Fluid: Nil	
Date Finished: 18-8-15				Permit No.: RN39226			

Depth (m)	Method	Casing	Penetration			Legend	Classification	USC DESCRIPTION OF STRATA Type, plasticity / particle size, colour, secondary / minor components (e.g., "trace"), moisture content, consistency / density, and additional observations	Moisture	Consistency	Relative Density	Sample Interval	P/D (ppm)	Sample ID	WELL CONSTRUCTION DETAILS	
			S	M	H										R	Steel Monument
0						X	SILT; Orange, minor clay, minor angular gravel.	D							Steel Monument	Top Cap
1						X	SILTSTONE; Yellow/brown/white, slightly weathered.	D							Cement	50 mm diameter PVC casing
2						X	SILTSTONE; Orange/white, slightly weathered.	D							2mm Gravel pack	50 mm diameter slotted PVC casing
3						X										End Cap
4																
5																
6																
7																
8																
9																

MONITORING WELL GW6-3

URS Australia Pty Ltd Level 3, 93 Mitchell St DARWIN NT 0800		Phone (08) 8980 2900 Fax (08) 8941 3920	Project Reference: Shoal Bay Hydrogeological Drilling	Client: John Holland
Drilling Contractor: Bores NT			Project No.: 42214019	Location: Shoal Bay Landfill
Logged By: K Treglown	Bore Size: 107 mm	Relative Level: 14.24	Drill Type: Air Rotary	
Checked By: C MacHunter	Total Depth: 3.00 m	Coordinates: 8630022.27 mN	Drill Model: Sonic Samp Drill	
Date Started: 19-8-15	Casing Size: 50 mm	709463.56 mE	Drill Fluid: Nil	
Date Finished: 19-8-15		Permit No.: RN39236		

Depth (m)	Method	Casing	Penetration S M HR	Legend	Classification	USC DESCRIPTION OF STRATA Type, plasticity / particle size, colour, secondary / minor components (e.g., "trace"), moisture content, consistency / density, and additional observations	Moisture	Consistency	Relative Density	Sample Interval	PID (ppm)	Sample ID	WELL CONSTRUCTION DETAILS	
													Steel Monument	Top Cap
0						Gravelly sandy SILT; Brown/red/orange/purple/minor white.	D							
1														
2						SILTSTONE; White, slightly weathered. Minor moist clay, light red, low plasticity at 3m.	D							
3														
4														
5														
6														
7														
8														
9														

MONITORING WELL GW6-12

URS Australia Pty Ltd Level 3, 93 Mitchell St DARWIN NT 0800		Phone (08) 8980 2900 Fax (08) 8941 3920	Project Reference: Shoal Bay Hydrogeological Drilling	Client: John Holland
Drilling Contractor: Bores NT		Project No.: 42214019	Location: Shoal Bay Landfill	
Logged By: K Treglown	Bore Size: 107 mm	Relative Level: 14.18	Drill Type: Air Rotary	
Checked By: C MacHunter	Total Depth: 12.00 m	Coordinates: 8630020.90 mN	Drill Model: Sonic Samp Drill	
Date Started: 19-8-15	Casing Size: 50 mm	709463.70 mE	Drill Fluid: Nil	
Date Finished: 19-8-15		Permit No: RN39237		

Depth (m)	Method	Casing	Penetration S M HR	Legend	Classification	USC DESCRIPTION OF STRATA Type, plasticity / particle size, colour, secondary / minor components (e.g., "trace"), moisture content, consistency / density, and additional observations	Moisture	Consistency	Relative Density	Sample Interval	PID (ppm)	Sample ID	WELL CONSTRUCTION DETAILS	
													Steel Monument	Top Cap
0						Gravelly sandy SILT; Brown/red/orange/purple/minor white.	D							
1														
2						SILTSTONE; White, slightly weathered. Minor moist clay, light red, low plasticity at 3m.	D							
3														
4														
5						SILTSTONE; White, slightly weathered.	D							
6						SILTSTONE; White/pink, slightly weathered.	D/M							
7														
8						SILTSTONE; Yellow/orange, slightly weathered.	D/M							
9						SILTSTONE; Red/orange/white, slightly weathered.	D/M							

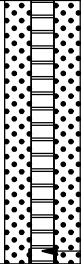
MONITORING WELL GW6-12

URS Australia Pty Ltd
Level 3, 93 Mitchell St DARWIN NT 0800

Phone (08) 8980 2900
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Project No.: **42214019**

Project Reference: **Shoal Bay Hydrogeological Drilling**

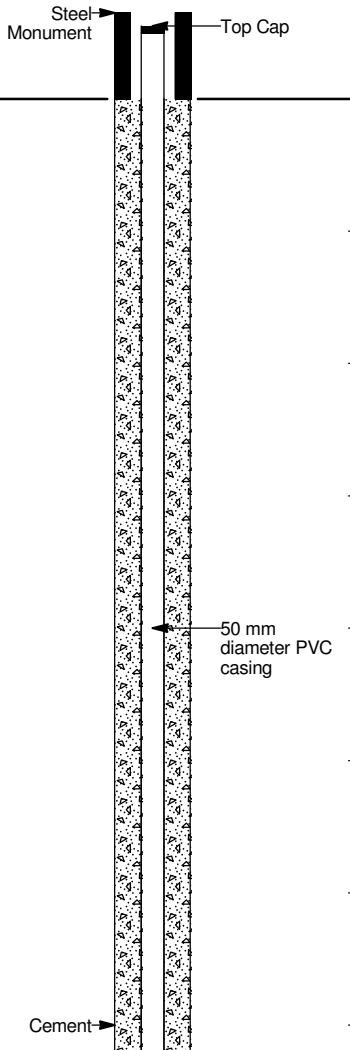
Depth (m)	Method	Casing	Penetration			Legend	Classification	USC DESCRIPTION OF STRATA Type, plasticity / particle size, colour, secondary / minor components (e.g., "trace"), moisture content, consistency / density, and additional observations	Moisture	Consistency	Relative Density	Sample Interval	PID (ppm)	Sample ID	WELL CONSTRUCTION DETAILS
			S	M	H										
10						XXXXX		SILTSTONE: Light orange/light red, slightly weathered.	D/M						 End Cap
11						XXXXX									
12						XXXXX									
13						XXXXX									
14						XXXXX									
15						XXXXX									
16						XXXXX									
17						XXXXX									
18						XXXXX									
19						XXXXX									
20						XXXXX									
21						XXXXX									

MONITORING WELL GW6-30

URS Australia Pty Ltd Level 3, 93 Mitchell St DARWIN NT 0800		Phone (08) 8980 2900 Fax (08) 8941 3920	Project Reference: Shoal Bay Hydrogeological Drilling	Client: John Holland
Drilling Contractor: Bores NT		Project No.: 42214019	Location: Shoal Bay Landfill	
Logged By: J Dwyer	Bore Size: 107 mm	Relative Level: 14.12	Drill Type: Air Rotary	
Checked By: C MacHunter	Total Depth: 29.70 m	Coordinates: 8630018.01 mN	Drill Model: Sonic Samp Drill	
Date Started: 21-8-15	Casing Size: 50 mm	709463.99 mE	Drill Fluid: Drill Mud	
Date Finished: 21-8-15		Permit No: RN39238		

Depth (m)	Method	Casing	Penetration			Legend	Classification	USC DESCRIPTION OF STRATA Type, plasticity / particle size, colour, secondary / minor components (e.g., "trace"), moisture content, consistency / density, and additional observations	Moisture	Consistency	Relative Density	Sample Interval	PID (ppm)	Sample ID	WELL CONSTRUCTION DETAILS	
			S	M	H										R	Steel Monument
0						XXXXXX	SILTSTONE; Brown/cream, weathered.	D								
1						XXXXXX	SILTSTONE; Light brown/cream, weathered.	D								
2						XXXXXX	SILTSTONE; Cream, weathered.	D								
3						XXXXXX	SILTSTONE; White, dry, brittle, weathered.	D								
4						XXXXXX										
5						XXXXXX										
6						XXXXXX										
7						XXXXXX										
8						XXXXXX										
9						XXXXXX	SILTSTONE; Brown/cream, weathered.	D								

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MONITORING WELL GW6-30

URS Australia Pty Ltd
Level 3, 93 Mitchell St DARWIN NT 0800

Phone (08) 8980 2900
Fax (08) 8941 3920

Project No.: **42214019**

Project Reference: **Shoal Bay Hydrogeological Drilling**

Depth (m)	Method	Casing	Penetration			Legend	Classification	USC DESCRIPTION OF STRATA Type, plasticity / particle size, colour, secondary / minor components (e.g., "trace"), moisture content, consistency / density, and additional observations	Moisture	Consistency	Relative Density	Sample Interval	PID (ppm)	Sample ID	WELL CONSTRUCTION DETAILS
			S	M	H										
10						XXXXXX	SILTSTONE; Brown/red, weathered.	D							<p>2mm Gravel pack</p> <p>50 mm diameter slotted PVC casing</p>
11						XXXXXX	SILTSTONE; Orange, weathered.	D							
12						XXXXXX	SILTSTONE; Orange/yellow, weathered.	D/M							
13						XXXXXX	SILTSTONE; Orange/yellow, weathered.	M							
14						XXXXXX	SILTSTONE; Orange, weathered.	M							
15						XXXXXX									
16						XXXXXX									
17						XXXXXX									
18						XXXXXX	SILTSTONE; Orange, rounded river gravel/rocks, weathered.	W							
19						XXXXXX									
20						XXXXXX	SANDSTONE; Brown/deep brown, weathered.	M							
21						XXXXXX									

MONITORING WELL GW6-30

URS Australia Pty Ltd
Level 3, 93 Mitchell St DARWIN NT 0800

Phone (08) 8980 2900
Fax (08) 8941 3920

Project No.: **42214019**

Project Reference: **Shoal Bay Hydrogeological Drilling**

Depth (m)	Method	Casing	Penetration			Legend	Classification	USC DESCRIPTION OF STRATA Type, plasticity / particle size, colour, secondary / minor components (e.g., "trace"), moisture content, consistency / density, and additional observations	Moisture	Consistency Relative Density	Sample Interval PID (ppm)	Sample ID	WELL CONSTRUCTION DETAILS
			S	M	H								
22													
23													
24													
25													
26													
27													
28													
29													
30													
31													
32													
33													

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MONITORING WELL GW7-3

URS Australia Pty Ltd
Level 3, 93 Mitchell St DARWIN NT 0800

Phone (08) 8980 2900
Fax (08) 8941 3920

Project Reference: **Shoal Bay Hydrogeological Drilling**

Client: **John Holland**
Location: **Shoal Bay Landfill**

Drilling Contractor: **Bores NT**

Project No.: **42214019**

Logged By: **K Treglown**
Checked By: **C MacHunter**
Date Started: **18-8-15**
Date Finished: **18-8-15**

Bore Size: **107 mm**
Total Depth: **3.00 m**
Casing Size: **50 mm**

Relative Level: **5.03**
Coordinates: **8629991.91 mN**
709900.10 mE
Permit No: **RN39224**

Drill Type: **Air Rotary**
Drill Model: **Sonic Samp Drill**
Drill Fluid: **Nil**

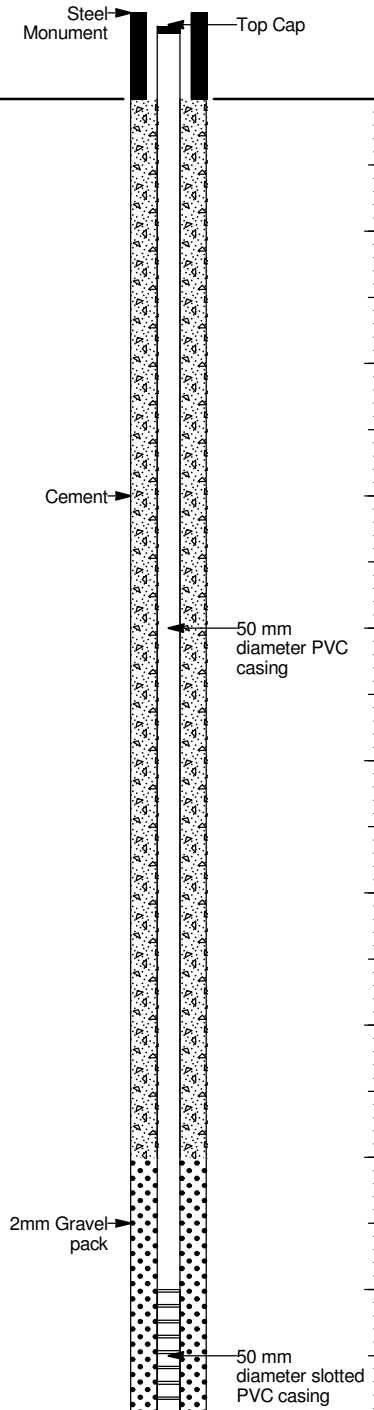
Depth (m)	Method	Casing	Penetration			Legend	Classification	USC DESCRIPTION OF STRATA Type, plasticity / particle size, colour, secondary / minor components (e.g., "trace"), moisture content, consistency / density, and additional observations	Moisture	Consistency	Relative Density	Sample Interval	PID (ppm)	Sample ID	WELL CONSTRUCTION DETAILS	
			S	M	H										R	Steel Monument
0							Silty CLAY; White/orange/purple, minor gravel, brittle clay.	D/M								
1							SILTSTONE; Yellow/orange, weathered.	D								
2																
3																
4																
5																
6																
7																
8																
9																

MONITORING WELL GW7-12

URS Australia Pty Ltd Level 3, 93 Mitchell St DARWIN NT 0800		Phone (08) 8980 2900 Fax (08) 8941 3920	Project Reference: Shoal Bay Hydrogeological Drilling	Client: John Holland
Drilling Contractor: Bores NT		Project No.: 42214019	Location: Shoal Bay Landfill	
Logged By: K Treglown	Bore Size: 107 mm	Relative Level: 5.08	Drill Type: Air Rotary	
Checked By: C MacHunter	Total Depth: 12.00 m	Coordinates: 8629993.99 mN	Drill Model: Sonic Samp Drill	
Date Started: 17-8-15	Casing Size: 50 mm	709900.11 mE	Drill Fluid: Nil	
Date Finished: 17-8-15		Permit No: RN39223		

Depth (m)	Method	Casing	Penetration S M HR	Legend	Classification	USC DESCRIPTION OF STRATA Type, plasticity / particle size, colour, secondary / minor components (e.g., "trace"), moisture content, consistency / density, and additional observations	Moisture	Consistency	Relative Density	Sample Interval	PID (ppm)	Sample ID	WELL CONSTRUCTION DETAILS		
													Steel Monument	Top Cap	
0						Silty CLAY; White/orange/purple, minor gravel, brittle clay.	D								
1						SILTSTONE; Yellow/white/purple, slightly weathered.	D								
2						SILTSTONE; Yellow/orange, slightly weathered.	D								
3															
4															
5						SILTSTONE; Yellow/orange/white, slightly weathered.	D								
6						SILTSTONE; Yellow/white, minor clay content, brittle, slightly weathered.	M								
7						SILTSTONE; Orange/red, minor clay content, brittle, slightly weathered.	M								
8						SILTSTONE; Yellow/white/minor red, minor clay content, brittle, slightly weathered.	M								
9						SILTSTONE; Yellow/white, minor clay content, plastic, slightly weathered.	M								

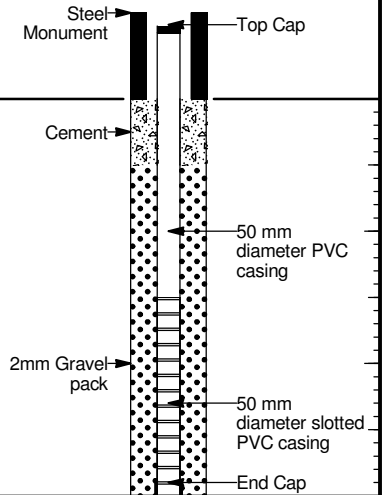
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MONITORING WELL GW8-3

URS Australia Pty Ltd Level 3, 93 Mitchell St DARWIN NT 0800		Phone (08) 8980 2900 Fax (08) 8941 3920	Project Reference: Shoal Bay Hydrogeological Drilling	Client: John Holland
Drilling Contractor: Bores NT		Project No.: 42214019	Location: Shoal Bay Landfill	
Logged By: K Treglown	Bore Size: 107 mm	Relative Level: 5.28	Drill Type: Air Rotary	
Checked By: C MacHunter	Total Depth: 3.00 m	Coordinates: 8629707.71 mN	Drill Model: Sonic Samp Drill	
Date Started: 17-8-15	Casing Size: 50 mm	709896.42 mE	Drill Fluid: Nil	
Date Finished: 17-8-15		Permit No: RN39222		

Depth (m)	Method	Casing	Penetration			Legend	Classification	USC DESCRIPTION OF STRATA Type, plasticity / particle size, colour, secondary / minor components (e.g., "trace"), moisture content, consistency / density, and additional observations	Moisture	Consistency	Relative Density	Sample Interval	PID (ppm)	Sample ID	WELL CONSTRUCTION DETAILS	
			S	M	H										R	Steel Monument
0							SANDSTONE; Clayey, dark grey, angular gravel.	D								
1							CLAYSTONE; Silty, orange/red/minor grey.	D								
2							CLAYSTONE; Silty, orange/grey.	D								
3																
4																
5																
6																
7																
8																
9																



MONITORING WELL GW8-12

URS Australia Pty Ltd Level 3, 93 Mitchell St DARWIN NT 0800		Phone (08) 8980 2900 Fax (08) 8941 3920	Project Reference: Shoal Bay Hydrogeological Drilling	Client: John Holland
Drilling Contractor: Bores NT		Project No.: 42214019	Location: Shoal Bay Landfill	
Logged By: K Treglown	Bore Size: 107 mm	Relative Level: 5.22	Drill Type: Air Rotary	
Checked By: C MacHunter	Total Depth: 12.10 m	Coordinates: 8629707.71 mN	Drill Model: Sonic Samp Drill	
Date Started: 17-8-15	Casing Size: 50 mm	709896.42 mE	Drill Fluid: Nil	
Date Finished: 17-8-15		Permit No: RN39221		

Depth (m)	Method	Casing	Penetration			Legend	Classification	USC DESCRIPTION OF STRATA Type, plasticity / particle size, colour, secondary / minor components (e.g., "trace"), moisture content, consistency / density, and additional observations	Moisture	Consistency	Relative Density	Sample Interval	PID (ppm)	Sample ID	WELL CONSTRUCTION DETAILS	
			S	M	H										R	Steel Monument
0							Silty CLAY; Minor gravel, grey/red/brown, plastic clay.	D								
1																
2							Silty CLAY; Orange/brown, plastic clay.	D								
3							CLAY; Grey/orange/grey mottled.	W								
4																
5							CLAY; Grey/red mottled, sub rounded gravel - sub angular.	M/W								
6																
7							CLAYSTONE; Minor silt, minor gravel, minor sands, brown, minor grey mottling, sub rounded, brittle clay.	W								
8																
9																

MONITORING WELL GW9-12

URS Australia Pty Ltd Level 3, 93 Mitchell St DARWIN NT 0800		Phone (08) 8980 2900 Fax (08) 8941 3920	Project Reference: Shoal Bay Hydrogeological Drilling	Client: John Holland
Drilling Contractor: Bores NT		Project No.: 42214019	Location: Shoal Bay Landfill	
Logged By: K Treglown	Bore Size: 107 mm	Relative Level: 15.93	Drill Type: Air Rotary	
Checked By: C MacHunter	Total Depth: 12.10 m	Coordinates: 8629468.53 mN	Drill Model: Sonic Samp Drill	
Date Started: 17-8-15	Casing Size: 50 mm	709660.36 mE	Drill Fluid: Nil	
Date Finished: 17-8-15		Permit No:		

Depth (m)	Method	Casing	Penetration			Legend	Classification	USC DESCRIPTION OF STRATA Type, plasticity / particle size, colour, secondary / minor components (e.g., "trace"), moisture content, consistency / density, and additional observations	Moisture	Consistency	Relative Density	Sample Interval	PID (ppm)	Sample ID	WELL CONSTRUCTION DETAILS	
			S	M	H										R	Steel Monument
0						XXXXXX	SILTSTONE; Light yellow, some dark brown gravel, slightly weathered.	D								
1						XXXXXX	SILTSTONE; White, slightly weathered.	D								
2						XXXXXX	SILTSTONE; Light yellow/white, slightly weathered.	D								
3						XXXXXX	SILTSTONE; White/light purple, slightly weathered.	D								
4						XXXXXX	SILTSTONE; Yellow/brown, slightly weathered.	D								
5						XXXXXX										
6						XXXXXX	SILTSTONE; Yellow, slightly weathered.	D								
7						XXXXXX										
8						XXXXXX										
9						XXXXXX	SILTSTONE; Siltstone/clay, light purple, minor clay content, brittle.	D								

MONITORING WELL GW10-3

URS Australia Pty Ltd Level 3, 93 Mitchell St DARWIN NT 0800		Phone (08) 8980 2900 Fax (08) 8941 3920	Project Reference: Shoal Bay Hydrogeological Drilling	Client: John Holland
Drilling Contractor: Bores NT			Project No.: 42214019	Location: Shoal Bay Landfill
Logged By: J Dwyer	Bore Size: 107 mm	Relative Level: 18.06	Drill Type: Air Rotary	
Checked By: C MacHunter	Total Depth: 3.00 m	Coordinates: 8629506.87 mN	Drill Model: Sonic Samp Drill	
Date Started: 20-8-15	Casing Size: 50 mm	709147.33 mE	Drill Fluid: Nil	
Date Finished: 20-8-15		Permit No: RN39239		

Depth (m)	Method	Casing	Penetration			Legend	Classification	USC DESCRIPTION OF STRATA Type, plasticity / particle size, colour, secondary / minor components (e.g., "trace"), moisture content, consistency / density, and additional observations	Moisture	Consistency	Relative Density	Sample Interval	PID (ppm)	Sample ID	WELL CONSTRUCTION DETAILS
			S	M	H										
0						XXXXXX	SILTSTONE; White/grey, minor clay, minor gravel, weathered.	D							
1						XXXXXX	SILTSTONE; Red/pink, brittle, weathered.	D							
2						XXXXXX	SILTSTONE; Orange/pink, brittle, weathered.	D							
3						XXXXXX									
4															
5															
6															
7															
8															
9															

MONITORING WELL GW10-12

URS Australia Pty Ltd Level 3, 93 Mitchell St DARWIN NT 0800		Phone (08) 8980 2900 Fax (08) 8941 3920	Project Reference: Shoal Bay Hydrogeological Drilling	Client: John Holland
Drilling Contractor: Bores NT			Project No.: 42214019	Location: Shoal Bay Landfill
Logged By: J Dwyer	Bore Size: 107 mm	Relative Level: 17.98	Drill Type: Air Rotary	
Checked By: C MacHunter	Total Depth: 12.00 m	Coordinates: 8629506.66 mN	Drill Model: Sonic Samp Drill	
Date Started: 20-8-15	Casing Size: 50 mm	709149.41 mE	Drill Fluid: Nil	
Date Finished: 20-8-15		Permit No: RN39240		

Depth (m)	Method	Casing	Penetration			Legend	Classification	USC DESCRIPTION OF STRATA Type, plasticity / particle size, colour, secondary / minor components (e.g., "trace"), moisture content, consistency / density, and additional observations	Moisture	Consistency	Relative Density	Sample Interval	PID (ppm)	Sample ID	WELL CONSTRUCTION DETAILS	
			S	M	H										R	Steel Monument
0						XXXXXX	SILTSTONE; White/grey, minor clay, minor gravel, weathered.	D								
1						XXXXXX	SILTSTONE; Red/pink, brittle, weathered.	D								
2						XXXXXX	SILTSTONE; Orange/pink, brittle, weathered.	D								
3						XXXXXX	SILTSTONE; Orange/brown, weathered.	D								
4						XXXXXX										
5						XXXXXX										
6						XXXXXX										
7						XXXXXX	SILTSTONE; Yellow/brown, weathered.	D								
8						XXXXXX										
9						XXXXXX										

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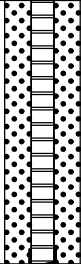
MONITORING WELL GW10-12

URS Australia Pty Ltd
Level 3, 93 Mitchell St DARWIN NT 0800

Phone (08) 8980 2900
Fax (08) 8941 3920

Project No.: **42214019**

Project Reference: **Shoal Bay Hydrogeological Drilling**

Depth (m)	Method	Casing	Penetration			Legend	Classification	USC DESCRIPTION OF STRATA Type, plasticity / particle size, colour, secondary / minor components (e.g., "trace"), moisture content, consistency / density, and additional observations	Moisture	Consistency	Relative Density	Sample Interval	PID (ppm)	Sample ID	WELL CONSTRUCTION DETAILS
			S	M	H										
10						XXXXX		SILTSTONE; Yellow/cream, weathered.	D						
11						XXXXX									
12						XXXXX									End Cap
13															
14															
15															
16															
17															
18															
19															
20															
21															

MONITORING WELL GW11-3

URS Australia Pty Ltd
Level 3, 93 Mitchell St DARWIN NT 0800

Phone (08) 8980 2900
Fax (08) 8941 3920

Project Reference: **Shoal Bay Hydrogeological Drilling**

Client: **John Holland**
Location: **Shoal Bay Landfill**

Drilling Contractor: **Bores NT**

Project No.: **42214019**

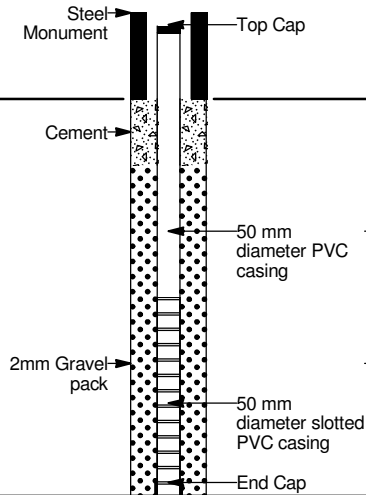
Logged By: **J Dwyer**
Checked By: **C MacHunter**
Date Started: **20-8-15**
Date Finished: **20-8-15**

Bore Size: **107 mm**
Total Depth: **3.00 m**
Casing Size: **50 mm**

Relative Level: **13.38**
Coordinates: **8629671.24 mN**
709039.82 mE
Permit No: **RN39241**

Drill Type: **Air Rotary**
Drill Model: **Sonic Samp Drill**
Drill Fluid: **Nil**

Depth (m)	Method	Casing	Penetration			Legend	Classification	USC DESCRIPTION OF STRATA Type, plasticity / particle size, colour, secondary / minor components (e.g., "trace"), moisture content, consistency / density, and additional observations	Moisture	Consistency	Relative Density	Sample Interval	P/D (ppm)	Sample ID	WELL CONSTRUCTION DETAILS	
			S	M	H										R	Steel Monument
0						XXXXXX	SILTSTONE; Brown, angular gravel, weathered.	D								
1						XXXXXX	SILTSTONE; White/grey, weathered.	D								
2						XXXXXX	SILTSTONE; Red/pink, weathered.	D								
3						XXXXXX										
4																
5																
6																
7																
8																
9																



MONITORING WELL GW11-12

URS Australia Pty Ltd Level 3, 93 Mitchell St DARWIN NT 0800		Phone (08) 8980 2900 Fax (08) 8941 3920	Project Reference: Shoal Bay Hydrogeological Drilling	Client: John Holland
Drilling Contractor: Bores NT			Project No.: 42214019	Location: Shoal Bay Landfill
Logged By: J Dwyer	Bore Size: 107 mm	Relative Level: 13.38	Drill Type: Air Rotary	
Checked By: C MacHunter	Total Depth: 12.00 m	Coordinates: 8629671.29 mN	Drill Model: Sonic Samp Drill	
Date Started: 20-8-15	Casing Size: 50 mm	709041.72 mE	Drill Fluid: Nil	
Date Finished: 20-8-15		Permit No: RN39242		

Depth (m)	Method	Casing	Penetration S M HR	Legend	Classification	USC DESCRIPTION OF STRATA Type, plasticity / particle size, colour, secondary / minor components (e.g., "trace"), moisture content, consistency / density, and additional observations	Moisture	Consistency	Relative Density	Sample Interval	PID (ppm)	Sample ID	WELL CONSTRUCTION DETAILS		
													Steel Monument	Top Cap	
0						SILTSTONE; Brown, angular gravel, weathered.	D								
1						SILTSTONE; Orange/grey, brittle, weathered.	D								
2															
3						SILTSTONE; Red/pink, weathered.	D								
4															
5						SILTSTONE; Orange/brown, weathered.	D/M								
6															
7						SILTSTONE; Yellow/orange, weathered.	D/M								
8						SILTSTONE; Yellow/purple, weathered.	D/M								
9						SILTSTONE; Cream/purple, weathered.	D/M								

MONITORING WELL GW12-3

URS Australia Pty Ltd Level 3, 93 Mitchell St DARWIN NT 0800		Phone (08) 8980 2900 Fax (08) 8941 3920	Project Reference: Shoal Bay Hydrogeological Drilling	Client: John Holland
Drilling Contractor: Bores NT			Project No.: 42214019	Location: Shoal Bay Landfill
Logged By: J Dwyer	Bore Size: 107 mm	Relative Level: 12.07	Drill Type: Air Rotary	
Checked By: C MacHunter	Total Depth: 3.00 m	Coordinates: 8629880.90 mN	Drill Model: Sonic Samp Drill	
Date Started: 20-8-15	Casing Size: 50 mm	709023.83 mE	Drill Fluid: Nil	
Date Finished: 20-8-15		Permit No: RN39243		

Depth (m)	Method	Casing	Penetration			Legend	Classification	USC DESCRIPTION OF STRATA Type, plasticity / particle size, colour, secondary / minor components (e.g., "trace"), moisture content, consistency / density, and additional observations	Moisture	Consistency	Relative Density	Sample Interval	PID (ppm)	Sample ID	WELL CONSTRUCTION DETAILS
			S	M	H										
0						XXXXXX	SILTSTONE; Brown/red, weathered.	D							
1						XXXXXX	SILTSTONE; White, highly weathered.	D							
2						XXXXXX	SILTSTONE; White/pink, highly weathered.	D							
3						XXXXXX									
4															
5															
6															
7															
8															
9															

MONITORING WELL GW12-12

URS Australia Pty Ltd Level 3, 93 Mitchell St DARWIN NT 0800		Phone (08) 8980 2900 Fax (08) 8941 3920	Project Reference: Shoal Bay Hydrogeological Drilling	Client: John Holland
Drilling Contractor: Bores NT			Project No.: 42214019	Location: Shoal Bay Landfill
Logged By: J Dwyer	Bore Size: 107 mm	Relative Level: 12.04	Drill Type: Air Rotary	
Checked By: C MacHunter	Total Depth: 12.00 m	Coordinates: 8629882.77 mN	Drill Model: Sonic Samp Drill	
Date Started: 20-8-15	Casing Size: 50 mm	709023.84 mE	Drill Fluid: Nil	
Date Finished: 20-8-15		Permit No: RN39244		

Depth (m)	Method	Casing	Penetration			Legend	Classification	USC DESCRIPTION OF STRATA Type, plasticity / particle size, colour, secondary / minor components (e.g., "trace"), moisture content, consistency / density, and additional observations	Moisture	Consistency	Relative Density	Sample Interval	PID (ppm)	Sample ID	WELL CONSTRUCTION DETAILS	
			S	M	H										R	Steel Monument
0						XXXXXX	SILTSTONE; Brown/red, angular gravel, weathered.	D								
1						XXXXXX	SILTSTONE; Pink/brown, weathered.	D								
2						XXXXXX	SILTSTONE; White/pink, minor gravel, weathered.	D								
3						XXXXXX	SILTSTONE; Red/brown, brittle, weathered.	D								
4						XXXXXX	SILTSTONE; Brown, weathered.	D								
5						XXXXXX										
6						XXXXXX	SILTSTONE; Light brown/yellow, weathered.	D								
7						XXXXXX										
8						XXXXXX										
9						XXXXXX	SILTSTONE; Yellow, highly weathered.	D								

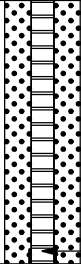
MONITORING WELL GW12-12

URS Australia Pty Ltd
Level 3, 93 Mitchell St DARWIN NT 0800

Phone (08) 8980 2900
Fax (08) 8941 3920

Project No.: **42214019**

Project Reference: **Shoal Bay Hydrogeological Drilling**

Depth (m)	Method	Casing	Penetration			Legend	Classification	USC DESCRIPTION OF STRATA Type, plasticity / particle size, colour, secondary / minor components (e.g., "trace"), moisture content, consistency / density, and additional observations	Moisture	Consistency Relative Density	Sample Interval PID (ppm)	Sample ID	WELL CONSTRUCTION DETAILS
			S	M	H								
10						XXXXX		SILTSTONE; Cream, highly weathered.	D				 <p>End Cap</p>
11						XXXXX							
12						XXXXX							
13						XXXXX							
14						XXXXX							
15						XXXXX							
16						XXXXX							
17						XXXXX							
18						XXXXX							
19						XXXXX							
20						XXXXX							
21						XXXXX							

MONITORING WELL GW12-30

URS Australia Pty Ltd Level 3, 93 Mitchell St DARWIN NT 0800		Phone (08) 8980 2900 Fax (08) 8941 3920	Project Reference: Shoal Bay Hydrogeological Drilling	Client: John Holland
Drilling Contractor: Bores NT			Project No.: 42214019	Location: Shoal Bay Landfill
Logged By: J Dwyer	Bore Size: 107 mm	Relative Level: 12.05	Drill Type: Air Rotary	
Checked By: C MacHunter	Total Depth: 30.00 m	Coordinates: 8629885.39 mN	Drill Model: Sonic Samp Drill	
Date Started: 20-8-15	Casing Size: 50 mm	709023.85 mE	Drill Fluid: Water	
Date Finished: 20-8-15		Permit No: RN39245		

Depth (m)	Method	Casing	Penetration			Legend	Classification	USC DESCRIPTION OF STRATA Type, plasticity / particle size, colour, secondary / minor components (e.g., "trace"), moisture content, consistency / density, and additional observations	Moisture	Consistency	Relative Density	Sample Interval	PID (ppm)	Sample ID	WELL CONSTRUCTION DETAILS	
			S	M	H										R	Steel Monument
0							SILTSTONE; Red/brown, angular gravel, weathered.	D								
1							SILTSTONE; White/grey, weathered.	D								
2							SILTSTONE; Pink/white, weathered.	D								
3							SILTSTONE; Brown/pink, weathered.	D								
4							SILTSTONE; Brown/pink, weathered.	D								
5							SILTSTONE; Brown, brittle, weathered.	D								
6							SILTSTONE; Orange, brittle, weathered.	D								
7							SILTSTONE; Orange, brittle, weathered.	D								
8							SILTSTONE; Orange, brittle, weathered.	D								
9							SANDSTONE; Yellow, fine grained.	D								

MONITORING WELL GW12-30

URS Australia Pty Ltd
Level 3, 93 Mitchell St DARWIN NT 0800

Phone (08) 8980 2900
Fax (08) 8941 3920

Project No.: **42214019**

Project Reference: **Shoal Bay Hydrogeological Drilling**

Depth (m)	Method	Casing	Penetration			Legend	Classification	USC DESCRIPTION OF STRATA Type, plasticity / particle size, colour, secondary / minor components (e.g., "trace"), moisture content, consistency / density, and additional observations	Moisture	Consistency	Relative Density	Sample Interval	PID (ppm)	Sample ID	WELL CONSTRUCTION DETAILS	
			S	M	H										R	
10								SANDSTONE; Yellow/cream, fine grained.	D							
11																
12																
13																
14																
15																
16																
17																
18																
19																
20								SANDSTONE; Brown/orange, fine grained.	D							
21																

MONITORING WELL GW12-30

URS Australia Pty Ltd
Level 3, 93 Mitchell St DARWIN NT 0800

Phone (08) 8980 2900
Fax (08) 8941 3920

Project No.: **42214019**

Project Reference: **Shoal Bay Hydrogeological Drilling**

Depth (m)	Method	Casing	Penetration			Legend	Classification	USC DESCRIPTION OF STRATA Type, plasticity / particle size, colour, secondary / minor components (e.g., "trace"), moisture content, consistency / density, and additional observations	Moisture	Consistency Relative Density	Sample Interval PID (ppm)	Sample ID	WELL CONSTRUCTION DETAILS
			S	M	H								
22													<p>2mm Gravel pack</p> <p>50 mm diameter slotted PVC casing</p> <p>End Cap</p>
23													
24													
25													
26													
27							SANDSTONE; Brown/orange, fine grained.	M					
28													
29													
30													
31													
32													
33													

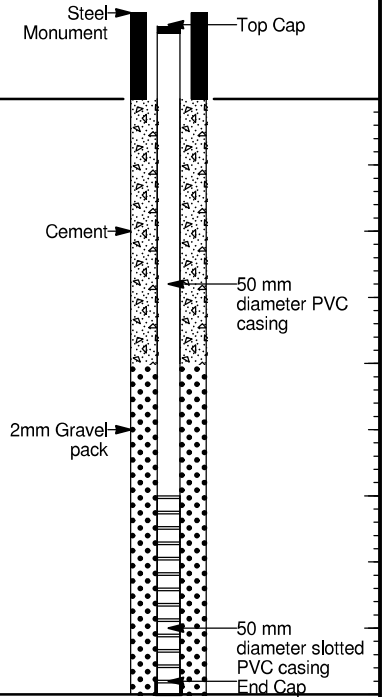
MONITORING WELL GW13-3

URS Australia Pty Ltd Level 3, 93 Mitchell St DARWIN NT 0800		Phone (08) 8980 2900 Fax (08) 8941 3920	Project Reference: Shoal Bay Hydrogeological Drilling	Client: John Holland
Drilling Contractor: Bores NT		Project No.: 42214019	Location: Shoal Bay Landfill	
Logged By: J Dwyer	Bore Size: 107 mm	Relative Level: 6.73	Drill Type: Air Rotary	
Checked By: C MacHunter	Total Depth: 4.50 m	Coordinates: 8630422.68 mN	Drill Model: Sonic Samp Drill	
Date Started: 21-8-15	Casing Size: 50 mm	709012.75 mE	Drill Fluid: Nil	
Date Finished: 21-8-15		Permit No: RN39250		

Depth (m)	Method	Casing	Penetration			Legend	Classification	USC DESCRIPTION OF STRATA Type, plasticity / particle size, colour, secondary / minor components (e.g., "trace"), moisture content, consistency / density, and additional observations	Moisture	Consistency	Relative Density	Sample Interval	PID (ppm)	Sample ID	WELL CONSTRUCTION DETAILS	
			S	M	HR										Steel Monument	Top Cap
0							FILL	D								
1																
2							SILTSTONE; Red/grey/brown, weathered.	D								
3							SILTSTONE; Pink/grey.	D								
4							SILTSTONE; Pink/grey, weathered.	D								
5																
6																
7																
8																
9																

ENVIRO_WELL_ADELAIDE_WCC_AUS.GDT J:\DRW\42214019\5 WORKS\LOGS\42214019-BORELOGS.GPJ 26/11/15

WELL CONSTRUCTION DETAILS



MONITORING WELL GW13-12

URS Australia Pty Ltd Level 3, 93 Mitchell St DARWIN NT 0800		Phone (08) 8980 2900 Fax (08) 8941 3920	Project Reference: Shoal Bay Hydrogeological Drilling	Client: John Holland
Drilling Contractor: Bores NT		Project No.: 42214019	Location: Shoal Bay Landfill	
Logged By: J Dwyer	Bore Size: 107 mm	Relative Level: 6.64	Drill Type: Air Rotary	
Checked By: C MacHunter	Total Depth: 13.50 m	Coordinates: 8630424.47 mN	Drill Model: Sonic Samp Drill	
Date Started: 21-8-15	Casing Size: 50 mm	709012.82 mE	Drill Fluid: Nil	
Date Finished: 21-8-15		Permit No.: RN39251		

Depth (m)	Method	Casing	Penetration			Legend	Classification	USC DESCRIPTION OF STRATA Type, plasticity / particle size, colour, secondary / minor components (e.g., "trace"), moisture content, consistency / density, and additional observations	Moisture	Consistency	Relative Density	Sample Interval	PID (ppm)	Sample ID	WELL CONSTRUCTION DETAILS	
			S	M	H										R	Steel Monument
0							Fill	D								
1																
2							SILTSTONE; Cream/red, weathered.	D								
3							SILTSTONE; Brown/cream, weathered.	D								
4							SILTSTONE; Red/brown/yellow, weathered.	D/M								
5							SILTSTONE; Yellow/brown, weathered.	M								
6																
7																
8							SILTSTONE; Orange/yellow, weathered.	M								
9																

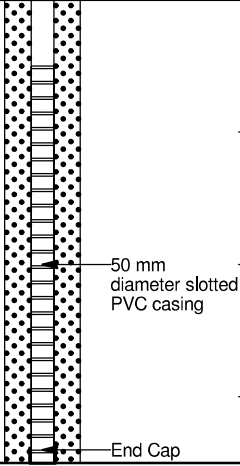
MONITORING WELL GW13-12

URS Australia Pty Ltd
Level 3, 93 Mitchell St DARWIN NT 0800

Phone (08) 8980 2900
Fax (08) 8941 3920

Project No.: **42214019**

Project Reference: **Shoal Bay Hydrogeological Drilling**

Depth (m)	Method	Casing	Penetration			Legend	Classification	USC DESCRIPTION OF STRATA Type, plasticity / particle size, colour, secondary / minor components (e.g. "trace"), moisture content, consistency / density, and additional observations	Moisture	Consistency Relative Density	Sample Interval PID (ppm)	Sample ID	WELL CONSTRUCTION DETAILS
			S	M	HR								
10						XXXXXX							 <p>50 mm diameter slotted PVC casing</p> <p>End Cap</p>
11						XXXXXX							
12						XXXXXX							
13						XXXXXX							
14						XXXXXX							
15						XXXXXX							
16						XXXXXX							
17						XXXXXX							
18						XXXXXX							
19						XXXXXX							
20						XXXXXX							
21						XXXXXX							

MONITORING WELL GW14-3

URS Australia Pty Ltd
Level 3, 93 Mitchell St DARWIN NT 0800

Phone (08) 8980 2900
Fax (08) 8941 3920

Project Reference: **Shoal Bay Hydrogeological Drilling**

Client: **John Holland**
Location: **Shoal Bay Landfill**

Drilling Contractor: **Bores NT**

Project No.: **42214019**

Logged By: **J Dwyer**
Checked By: **C MacHunter**
Date Started: **20-8-15**
Date Finished: **20-8-15**

Bore Size: **107 mm**
Total Depth: **3.00 m**
Casing Size: **50 mm**

Relative Level: **12.88**
Coordinates: **8630175.11 mN**
709016.90 mE
Permit No: **RN39246**

Drill Type: **Air Rotary**
Drill Model: **Sonic Samp Drill**
Drill Fluid: **Nil**

Depth (m)	Method	Casing	Penetration			Legend	Classification	USC DESCRIPTION OF STRATA Type, plasticity / particle size, colour, secondary / minor components (e.g., "trace"), moisture content, consistency / density, and additional observations	Moisture	Consistency	Relative Density	Sample Interval	PID (ppm)	Sample ID	WELL CONSTRUCTION DETAILS	
			S	M	HR										Steel Monument	Top Cap
0						XXXXXX	SILTSTONE; Dark red/brown/grey, angular gravel.	D							Steel Monument	Top Cap
1						XXXXXX	SILTSTONE; Red/brown, weathered.	D							Cement	50 mm diameter PVC casing
2						XXXXXX	SILTSTONE; Orange/red/brown, weathered.	D							2mm Gravel pack	50 mm diameter slotted PVC casing
3						XXXXXX										End Cap
4																
5																
6																
7																
8																
9																

MONITORING WELL GW14-12

URS Australia Pty Ltd Level 3, 93 Mitchell St DARWIN NT 0800		Phone (08) 8980 2900 Fax (08) 8941 3920	Project Reference: Shoal Bay Hydrogeological Drilling	Client: John Holland
Drilling Contractor: Bores NT		Project No.: 42214019	Location: Shoal Bay Landfill	
Logged By: J Dwyer	Bore Size: 107 mm	Relative Level: 12.86	Drill Type: Air Rotary	
Checked By: C MacHunter	Total Depth: 12.00 m	Coordinates: 8630173.67 mN	Drill Model: Sonic Samp Drill	
Date Started: 20-8-15	Casing Size: 50 mm	709016.49 mE	Drill Fluid: Nil	
Date Finished: 20-8-15		Permit No: RN39247		

Depth (m)	Method	Casing	Penetration			Legend	Classification	USC DESCRIPTION OF STRATA Type, plasticity / particle size, colour, secondary / minor components (e.g., "trace"), moisture content, consistency / density, and additional observations	Moisture	Consistency	Relative Density	Sample Interval	PID (ppm)	Sample ID	WELL CONSTRUCTION DETAILS	
			S	M	HR										Steel Monument	Top Cap
0						XXXXXX	SILTSTONE; Red/brown, angular gravel, weathered.	D								
1						XXXXXX	SILTSTONE; Pink/grey, highly weathered.	D								
2						XXXXXX	SILTSTONE; White/pink, brittle, weathered.	D								
3						XXXXXX	SILTSTONE; Orange/brown, brittle, weathered.	D								
4						XXXXXX										
5						XXXXXX	SILTSTONE; Pink/purple, weathered.	D								
6						XXXXXX										
7						XXXXXX	SILTSTONE; Orange/brown, weathered.	D								
8						XXXXXX	SILTSTONE; Pink/brown, weathered.	D/M								
9						XXXXXX	SILTSTONE; Yellow/brown, weathered.	D/M								

MONITORING WELL GW15-3

URS Australia Pty Ltd
Level 3, 93 Mitchell St DARWIN NT 0800

Phone (08) 8980 2900
Fax (08) 8941 3920

Project Reference: **Shoal Bay Hydrogeological Drilling**

Client: **John Holland**
Location: **Shoal Bay Landfill**

Drilling Contractor: **Bores NT**

Project No.: **42214019**

Logged By: **J Dwyer**
Checked By: **C MacHunter**
Date Started: **20-8-15**
Date Finished: **20-8-15**

Bore Size: **107 mm**
Total Depth: **3.00 m**
Casing Size: **50 mm**

Relative Level: **11.06**
Coordinates: **8630599.33 mN**
709230.44 mE
Permit No: **RN39248**

Drill Type: **Air Rotary**
Drill Model: **Sonic Samp Drill**
Drill Fluid: **Nil**

Depth (m)	Method	Casing	Penetration			Legend	Classification	USC DESCRIPTION OF STRATA Type, plasticity / particle size, colour, secondary / minor components (e.g., "trace"), moisture content, consistency / density, and additional observations	Moisture	Consistency	Relative Density	Sample Interval	PID (ppm)	Sample ID	WELL CONSTRUCTION DETAILS
			S	M	HR										
0						XXXXXX	SILTSTONE; Cream/grey, weathered.	D							
1						XXXXXX	SILTSTONE; White/cream, weathered.	D							
2						XXXXXX	SILTSTONE; Pink/white, brittle, weathered.	D							
3						XXXXXX									
4															
5															
6															
7															
8															
9															

MONITORING WELL GW15-12

URS Australia Pty Ltd Level 3, 93 Mitchell St DARWIN NT 0800		Phone (08) 8980 2900 Fax (08) 8941 3920	Project Reference: Shoal Bay Hydrogeological Drilling	Client: John Holland
Drilling Contractor: Bores NT			Project No.: 42214019	Location: Shoal Bay Landfill
Logged By: J Dwyer	Bore Size: 107 mm	Relative Level: 11.04	Drill Type: Air Rotary	
Checked By: C MacHunter	Total Depth: 12.00 m	Coordinates: 8630599.30 mN	Drill Model: Sonic Samp Drill	
Date Started: 20-8-15	Casing Size: 50 mm	709233.07 mE	Drill Fluid: Nil	
Date Finished: 20-8-15		Permit No.: RN39249		

Depth (m)	Method	Casing	Penetration			Legend	Classification	USC DESCRIPTION OF STRATA Type, plasticity / particle size, colour, secondary / minor components (e.g., "trace"), moisture content, consistency / density, and additional observations	Moisture	Consistency	Relative Density	Sample Interval	PID (ppm)	Sample ID	WELL CONSTRUCTION DETAILS	
			S	M	HR										Steel Monument	Top Cap
0						XXXXXX	SILTSTONE; Grey/brown, angular gravel, weathered.	D								
1						XXXXXX	SILTSTONE; White/pink, brittle, weathered.	D								
2						XXXXXX										
3						XXXXXX										
4						XXXXXX	SILTSTONE; Pink/purple, brittle, weathered.	D								
5						XXXXXX										
6						XXXXXX	SILTSTONE; Brown/pink, brittle, weathered.	D								
7						XXXXXX	SILTSTONE; Brown, brittle, weathered.	D								
8						XXXXXX										
9						XXXXXX	SILTSTONE; Brown, brittle, weathered.	D/M								



EcOz
Environmental
Services

Project No: EZ21005 Project Name: Water & Carbon bore install Logged By: Andrew Lewis

BORE RN: 42232 Datum: GDA94 Easting: 790387

Bore Name: GW17-3 Zone: 52L Northing: 8630672

Bore Type/Purpose: Monitoring Start Date: 05-05-21 Ground Level mAHD:

Location: Shoal Bay WMF End Date: 06-05-21 SWL (mbTOC):

Drilled by: Bores NT SWL Date: 06-05-21 TOC above ground level:

Depth (mbgl)	Depth (mAHD)	Bore Details	Depth (m)	Lithological Description	Remarks and Observations	Flow Rate L/s Moisture Content
0.0	0.00					
			0-0.5	Topsoil, gray	Organics and fire residue	Dry
1.0	-1.00					
			0.5 - 3m	Weathered Siltstone, white/pink/light purple		Dry
2.0	-2.00					
3.0	-3.00					

Key:

- Solid casing
- Steel Collar
- Cement
- Gravel
- Bentonite seal
- Screen
- Ground Water Level
- Water Strike

Natural Back fill

Groundwater Quality:

Field Measurements:

Date: _____ Units: _____
 pH: _____ pH units
 Electrical Conductivity: _____ mS/cm
 Salinity: _____ ppt
 Dissolved Oxygen: _____ %
 Turbidity: _____ NTU
 Temperature: _____ °C

Additional Comments:



☉ 309°NW (T) LAT: -12.380094 LON: 130.925787 ±11m ▲ 12m



GW17-12. 12m moisture
EcOz Environmental

Water & carbon bore install
05/05/2021, 14:43:39



STATEMENT OF BORE

RECEIVED
 DATE 19.5.21 BY RM

Pursuant to section 53 of the Water Act and section 11 of the Water Regulations

Name of Owner: <u>Darwin City Council</u>				Bore Registration No: <u>RN 42232</u>							
Street address /NT Parcel: <u>Shoal bay rd Vanderlin drive</u>				Bore Name: <u>GW17-3</u>							
				BCP Permit No: <u>BCP</u>							
Coordinate of Bore:		GDA2020 <input type="checkbox"/>	GDA94 <input type="checkbox"/>	WGS84 <input type="checkbox"/>	Zone: 52 <input checked="" type="checkbox"/>	Easting: <u>709387</u>					
				53 <input type="checkbox"/>	Northing: <u>8630672</u>		Latitude(DMS):				
						Longitude(DMS):					
From	To	Particulars of Strata		Name of Drilling Company: <u>Bores NT Pty Ltd</u>							
<u>0</u>	<u>1</u>	<u>soil</u>		Name of Driller: <u>S. Burrows</u>							
<u>1</u>	<u>3</u>	<u>white siltstone</u>		Name of supervising driller:							
				Date Commenced: <u>5/5/21</u>							
				Date Completed: <u>5/5/21</u>							
				Depth Drilled: <u>3</u> (m)							
				Completion Depth: <u>3</u> (m)							
METHOD OF DRILLING											
Auger <input type="checkbox"/>		Rotary Air <input checked="" type="checkbox"/>		Rotary Mud <input type="checkbox"/>		Sonic <input type="checkbox"/>					
						Other <input type="checkbox"/>					
Specify:											
HOLE DIAMETER				DRILLING FLUID							
From (m)	To (m)	Dia. (mm)		Type							
<u>0</u>	<u>1</u>	<u>200</u>		<u>Air</u>							
<u>1</u>	<u>3</u>	<u>150</u>		<u>Air</u>							
PARTICULARS OF CASING				PARTICULARS OF PERFORATIONS OR SCREEN STRINGS							
From (m)	To (m)	ID Dia (mm)	Type	From (m)	To (m)	ID Dia (mm)	Aperture(mm)	Type			
<u>+0.7</u>	<u>0.5</u>	<u>158</u>	<u>s/steel cover</u>	<u>1.5</u>	<u>3</u>	<u>50</u>	<u>15</u>	<u>Machine slot</u>			
<u>+0.6</u>	<u>3</u>	<u>50</u>	<u>Arc</u>								
Casing Suspended: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>				Top of Packer Set at: _____ (m)							
Method: <u>seated</u>				Length of Packer: _____ (m)							
Height of Casing above GL: <u>+0.7</u> (m)				Method of Packer Connection: _____							
CEMENTING/GRAVEL PACKING			WATER BEARING BEDS								
From (m)	To (m)	Type	Depth From (m)	To (m)	Yield (L/s)	SWL (m)	Duration (hrs)	Quality	EC (µS/cm)	pH	Bottle (No.)
<u>0</u>	<u>0.5</u>	<u>Grout</u>			<u>Dry</u>						
<u>0.5</u>	<u>1</u>	<u>Bentonite</u>									
<u>1</u>	<u>3</u>	<u>gravel</u>									
			Cumulative Yield:								
STRATA / WATER SAMPLES			Completion Yield: <u>Dry</u> (L/s)			Method:			Duration (hrs):		
Have been <input type="checkbox"/> Will be <input type="checkbox"/>			Completion SWL from GL: _____ (m)			Method:			Depth of Lift (m):		
Left at:											

NOTE: No company advertising is to be imprinted on this certificate apart from where requested.



SKETCH AND BRIEF DESCRIPTION OF THE BORE'S LOCATION

RN:

Large empty rectangular area for sketch and description.



FINAL CONSTRUCTION STATUS

Constructed and Capped Decommissioned (Jump to 'Additional Information' to provide more Decommissioning Method details)

THE TYPE OF BORE (Multiple Selection Acceptable)

Production Bore Investigation Bore Monitoring Bore Other Specify:

THE PROPOSED USE OF PRODUCTION BORE (Optional and Multiple Selection Acceptable)

Agriculture Public Water Supply Cultural Rural Stock and Domestic
Aquaculture Environment Industry Mining Petroleum

Bore RN permanently displayed on completed bore? Yes No Surface Slab Completed? Yes No N/A

ADDITIONAL INFORMATION ABOUT THE BORE: (Include any information which may assist for future reference)

Bores NT Pty Ltd Ph: 0411 631 195 E: waterbores1@bigpond.com

I hereby declare that the information provided in this application and accompanying documents is to the best of my knowledge, true and correct

Name and Licence# of Driller under supervision Signature of Driller under supervision Date: 1 1

B. Burrows 104

J. Burrows

Name and Licence# of Licensed Driller: Signature of Licensed Driller: Date: 5, 5, 21

Note: The holder of the NT licence shall submit the form to the Department within 28 days of completion of any works.

FOR OFFICIAL USE ONLY

How Located: GPS Survey Other

Property Location: Section No: Lot No: LTO Code: Town of:
Portion No: Lease No: Hundred of:

Coordinate Datum: GDA94 GDA2020
Location MGA Zone: Easting: Latitude (DMS):
Verified: Index Map Number: Northing: Longitude (DMS):

Date Registered: Dept Officer: Signature:

Remarks:



STATEMENT OF BORE

RECEIVED
 DATE 19.5.21 BY RM

Pursuant to section 53 of the Water Act and section 11 of the Water Regulations

Name of Owner: <u>Darwin City Council</u>				Bore Registration No: <u>RN 42232</u>							
Street address /NT Parcel: <u>Shoal bay rd Vanderlin drive</u>				Bore Name: <u>GW17-3</u>							
				BCP Permit No: <u>BCP</u>							
Coordinate of Bore:		GDA2020 <input type="checkbox"/>	GDA94 <input type="checkbox"/>	WGS84 <input type="checkbox"/>	Zone: 52 <input checked="" type="checkbox"/>	Easting: <u>709387</u>					
				53 <input type="checkbox"/>	Northing: <u>8630672</u>		Latitude(DMS):				
						Longitude(DMS):					
From	To	Particulars of Strata									
<u>0</u>	<u>1</u>	<u>soil</u>									
<u>1</u>	<u>3</u>	<u>white siltstone</u>									
				Name of Drilling Company: <u>Bores NT Pty Ltd</u>							
				Name of Driller: <u>B. Burrows</u>							
				Name of supervising driller:							
				Date Commenced: <u>5/5/21</u>							
				Date Completed: <u>5/5/21</u>							
				Depth Drilled: <u>3</u> (m)							
				Completion Depth: <u>3</u> (m)							
METHOD OF DRILLING											
Auger <input type="checkbox"/>		Rotary Air <input checked="" type="checkbox"/>		Rotary Mud <input type="checkbox"/>		Sonic <input type="checkbox"/>					
						Other <input type="checkbox"/>					
Specify:											
HOLE DIAMETER				DRILLING FLUID							
From (m)	To (m)	Dia. (mm)		Type							
<u>0</u>	<u>1</u>	<u>200</u>		<u>Air</u>							
<u>1</u>	<u>3</u>	<u>150</u>		<u>Air</u>							
PARTICULARS OF CASING				PARTICULARS OF PERFORATIONS OR SCREEN STRINGS							
From (m)	To (m)	ID Dia (mm)	Type	From (m)	To (m)	ID Dia (mm)	Aperture(mm)	Type			
<u>+0.7</u>	<u>0.5</u>	<u>158</u>	<u>s/steel cover</u>	<u>1.5</u>	<u>3</u>	<u>50</u>	<u>15</u>	<u>Machine slot</u>			
<u>+0.6</u>	<u>3</u>	<u>50</u>	<u>Arc</u>								
Casing Suspended: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>				Top of Packer Set at: _____ (m)							
Method: <u>sealed</u>				Length of Packer: _____ (m)							
Height of Casing above GL: <u>+0.7</u> (m)				Method of Packer Connection: _____							
CEMENTING/GRAVEL PACKING			WATER BEARING BEDS								
From (m)	To (m)	Type	Depth From (m)	To (m)	Yield (L/s)	SWL (m)	Duration (hrs)	Quality	EC (µS/cm)	pH	Bottle (No.)
<u>0</u>	<u>0.5</u>	<u>Grout</u>			<u>Dry</u>						
<u>0.5</u>	<u>1</u>	<u>Bentonite</u>									
<u>1</u>	<u>3</u>	<u>gravel</u>									
			Cumulative Yield:								
STRATA / WATER SAMPLES			Completion Yield: <u>Dry</u> (L/s)			Method:			Duration (hrs):		
Have been <input type="checkbox"/> Will be <input type="checkbox"/>			Completion SWL from GL: _____ (m)			Depth of Lift (m):					
Left at:											

NOTE: No company advertising is to be imprinted on this certificate apart from where requested.



SKETCH AND BRIEF DESCRIPTION OF THE BORE'S LOCATION

RN:

Large empty rectangular area for sketch and description.



FINAL CONSTRUCTION STATUS

Constructed and Capped Decommissioned (Jump to 'Additional Information' to provide more Decommissioning Method details)

THE TYPE OF BORE (Multiple Selection Acceptable)

Production Bore Investigation Bore Monitoring Bore Other Specify:

THE PROPOSED USE OF PRODUCTION BORE (Optional and Multiple Selection Acceptable)

Agriculture Public Water Supply Cultural Rural Stock and Domestic
Aquaculture Environment Industry Mining Petroleum

Bore RN permanently displayed on completed bore? Yes No Surface Slab Completed? Yes No N/A

ADDITIONAL INFORMATION ABOUT THE BORE: (Include any information which may assist for future reference)

Bores NT Pty Ltd Ph: 0411 631 195 E: waterbores1@bigpond.com

I hereby declare that the information provided in this application and accompanying documents is to the best of my knowledge, true and correct

Name and Licence# of Driller under supervision Signature of Driller under supervision Date: 1 1

B. Burrows 104

J. Burrows

Name and Licence# of Licensed Driller: Signature of Licensed Driller: Date: 5, 5, 21

Note: The holder of the NT licence shall submit the form to the Department within 28 days of completion of any works.

FOR OFFICIAL USE ONLY

How Located: GPS Survey Other

Property Location: Section No: Lot No: LTO Code: Town of:
Portion No: Lease No: Hundred of:

Coordinate Datum: GDA94 GDA2020
Location MGA Zone: Easting: Latitude (DMS):
Verified: Index Map Number: Northing: Longitude (DMS):

Date Registered: Dept Officer: Signature:

Remarks:



EcOz
Environmental
Services

Project No: EZ21005 Project Name: Water & Carbon bore install Logged By: A. Lewis
 BORE RN: 42231 Datum: GDA94 Easting: 709384
 Bore Name: GW17-12 Zone: 52L Northing: 8630672
 Bore Type/Purpose: Monitoring Start Date: 05-05-21 Ground Level mAHD:
 Location: Shoal Bay WMF End Date: 06-05-21 SWL (mbTOC): 3.47m
 Drilled by: Bores NT SWL Date: 06-05-21 TOC above ground level:

Depth (mbgl)	Depth (mAHD)	Bore Details	Depth (m)	Lithological Description	Remarks and Observations	Flow Rate L/s Moisture Content
0.0	0.00		0-0.5	Topsoil, gray	Organics and fire residue	Dry
1.0	-1.00		0.5 - 4m	Weathered Siltstone, white/pink/light purple		Dry
2.0	-2.00					
3.0	-3.00					
4.0	-4.00		4 - 8m	Siltstone, slight weathering, light brown/orange/pink, some clay content		Dry
5.0	-5.00					
6.0	-6.00					
7.0	-7.00		8 - 11m	Sandy clay loam, slight weathering, orange/red/olive/tan	Very thin layer of moisture encountered at 9m	Some Moisture
8.0	-8.00					
9.0	-9.00					
10.0	-10.00					
11.0	-11.00					
12.0	-12.00					

- Key:**
- Solid casing
 - Steel Collar
 - Cement
 - Gravel
 - Bentonite seal
 - Screen
 - Ground Water Level
 - Water Strike

Natural Backfill

Groundwater Quality:

Field Measurements: **Units:**

Date: pH: pH units

Electrical Conductivity: mS/cm

Salinity: ppt

Dissolved Oxygen: %

Turbidity: NTU

Temperature: °C

Additional Comments:

SW

W

NW

210

240

270

300

330

☉ 265°W (T) LAT: -12.380097 LON: 130.925821 ±8m ▲ 12m



GW17-12
EcOz Environmental

Water & carbon bore install
05/05/2021, 14:43:05



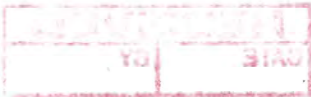
STATEMENT OF BORE

RECEIVED
DATE 19.5.21 BY RM

Pursuant to section 53 of the Water Act and section 11 of the Water Regulations

Name of Owner: <u>Darwin City Council</u>				Bore Registration No: <u>RN 42231</u>															
Street address /NT Parcel: <u>Shoal Bay tip Vanderlin drive</u>				Bore Name: <u>GW17-12</u>															
Coordinate of Bore:				BCP Permit No: <u>BCP</u>															
GDA2020 <input type="checkbox"/>		GDA94 <input type="checkbox"/>		WGS84 <input type="checkbox"/>		Zone: 52 <input checked="" type="checkbox"/>													
						53 <input type="checkbox"/>													
Easting: <u>709384</u>		Latitude(DMS):		Northing: <u>8630672</u>		Longitude(DMS):													
From To Particulars of Strata				Name of Drilling Company: <u>Bores NT Pty Ltd</u>															
0 1 soil				Name of Driller: <u>B. Burrows</u>															
1 3 white siltstone				Name of supervising driller:															
3 12 Brown + yellow siltstone				Date Commenced: <u>5/5/21</u>															
				Date Completed: <u>5/5/21</u>															
				Depth Drilled: <u>12</u> (m)															
				Completion Depth: <u>12</u> (m)															
METHOD OF DRILLING																			
Auger <input type="checkbox"/>		Rotary Air <input checked="" type="checkbox"/>		Rotary Mud <input type="checkbox"/>		Sonic <input type="checkbox"/>													
						Other <input type="checkbox"/>													
Specify:																			
HOLE DIAMETER				DRILLING FLUID															
From (m)		To (m)		Dia. (mm)		Type													
0		1		200		Air													
1		12		150		Air													
PARTICULARS OF CASING				PARTICULARS OF PERFORATIONS OR SCREEN STRINGS															
From (m)		To (m)		ID Dia (mm)		Type													
to-7		0.5		158		s/steel cover													
to-6		12		150		PVC													
Casing Suspended: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>				Top of Packer Set at: (m)															
Method: <u>seated</u>				Length of Packer: (m)															
Height of Casing above GL: <u>to-7</u> (m)				Method of Packer Connection: (m)															
CEMENTING/GRAVEL PACKING				WATER BEARING BEDS															
From (m)		To (m)		Depth		Yield		SWL		Duration		Quality		EC		pH		Bottle	
						(L/s)		(m)		(hrs)				(µS/cm)				(No.)	
0		6.5		12		seepage													
6.5		7.5																	
7.5		8																	
8		12																	
				Cumulative Yield:															
STRATA / WATER SAMPLES				Completion Yield: <u>seepage</u> (L/s)				Method: <u>Air Lift</u>				Duration (hrs): <u>1</u>							
Have been <input type="checkbox"/> Will be <input type="checkbox"/>				Completion SWL from GL: <u>3.4</u> (m)								Depth of Lift (m): <u>12</u>							
Left at:																			

NOTE: No company advertising is to be imprinted on this certificate apart from where requested.



SKETCH AND BRIEF DESCRIPTION OF THE BORE'S LOCATION

RN:



FINAL CONSTRUCTION STATUS

Constructed and Capped Decommissioned (Jump to 'Additional Information' to provide more Decommissioning Method details)

THE TYPE OF BORE (Multiple Selection Acceptable)

Production Bore Investigation Bore Monitoring Bore Other Specify:

THE PROPOSED USE OF PRODUCTION BORE (Optional and Multiple Selection Acceptable)

Agriculture Public Water Supply Cultural Rural Stock and Domestic
Aquaculture Environment Industry Mning Petroleum

Bore RN permanently displayed on completed bore? Yes No Surface Slab Completed? Yes No NA

ADDITIONAL INFORMATION ABOUT THE BORE: (Include any information which may assist for future reference)

Bores NT Pty Ltd Ph: 0411 631 195 E: waterbores1@bigpond.com

I hereby declare that the information provided in this application and accompanying documents is to the best of my knowledge, true and correct

Name and Licence# of Driller under supervision Signature of Driller under supervision Date: 1 1

B. Burrows 104

B. Burrows 104

Name and Licence# of Licensed Driller: Signature of Licensed Driller: Date: 5, 5, 21

Note: The holder of the NT licence shall submit the form to the Department within 28 days of completion of any works.

FOR OFFICIAL USE ONLY

How Located: GPS Survey Other

Property Section No: Lot No: LTO Code: Town of:
Location: Portion No: Lease No: Hundred of:

Coordinate Datum: GDA94 GDA2020
Location MGA Zone: Easting: Latitude (DMS):
Verified: Index Map Number: Northing: Longitude (DMS):

Date Registered: Dept Officer: Signature:

Remarks:



EcOz
Environmental
Services

Project No: EZ20118	Project Name: Water and Carbon Bore install		Logged By: A.Lewis
BORE RN: 42230	Datum: GDA94	Easting: 790381	
Bore Name: GW17-30	Zone: 52L	Northing: 8630672	
Bore Type/Purpose: Monitoring	Start Date: 05-05-21	Ground Level mAHD:	
Location: Soal Bay WMF	End Date: 06-05-21	SWL (mbTOC): 3.63	
Drilled by: Bores NT	SWL Date: 6-5-2021	TOC above ground level:	

Depth (mbgl)	Depth (mAHD)	Bore Details	Depth (m)	Lithological Description	Remarks and Observations	Flow Rate L/s Moisture Content
0.0	0.00					
0.5			0-0.5	Topsoil, gray	Organics and fire residue	Dry
1.0						
2.0			0.5 - 4m	Weathered Siltstone, white/pink/light purple		Dry
3.0						
4.0						
5.0			4 - 8m	Siltstone, slight weathering, light brown/orange/pink, some clay content		Dry
6.0						
7.0						
8.0						
9.0			8 - 11m	Siltstone, clay content, slight weathering, orange		Some Moisture
10.0						
11.0						
12.0						
13.0			11 - 18m	Fine Loamy Sand, small pebbles, tan/reds		Some Moisture
14.0						
15.0						

Key: Solid casing Steel Collar Cement Gravel Bentonite seal Screen Ground Water Level Water Strike	Groundwater Quality: Field Measurements:	Units: Date: pH: pH units Electrical Conductivity: mS/cm Salinity: ppt Dissolved Oxygen: % Turbidity: NTU Temperature: °C	Additional Comments:



Depth (mbgl)	Depth (m)	Lithological Description	Remarks and Observations	Flow Rate L/s	Moisture Content
0.0					
16.0	11 - 18m	Fine Loamy Sand, small pebbles, tan/reds			Some Moisture
17.0					
18.0					
19.0	18 - 24m	Fine sandy Loam, more clay, small pebbles, reds			moisture
20.0					
21.0					
22.0					
23.0					
24.0	24 - 27m	Sandy Clay Loam, brown/red, small pebbles	Hit a small bed of water around 26m		
25.0					
26.0					
27.0					
28.0	27 - 30m	Clay Loam, small pebbles			
29.0					
30.0					

Key:

- Solid casing
- Steel Collar
- Cement
- Gravel
- Bentonite seal
- Screen
- Ground Water Level
- Water Strike
- Natural Backfill

Groundwater Quality:

Field Measurements:	Units:
Date:	
pH:	pH units
Electrical Conductivity:	mS/cm
Salinity:	ppt
Dissolved Oxygen:	%
Turbidity:	NTU
Temperature:	°C

Additional Comments:

SW 240 W 270 NW 330 N 0

☉ 294°NW (T) LAT: -12.380044 LON: 130.925788 ±11m ▲ 13m



GW17-30
EcOz Environmental

Water & carbon bore install
05/05/2021, 12:02:41



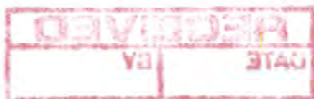
STATEMENT OF BORE

RECEIVED
DATE 19.3.21 BY RM

Pursuant to section 53 of the Water Act and section 11 of the Water Regulations

Name of Owner: <u>Darwin City Council</u>				Bore Registration No: <u>RN 42230</u>							
Street address /NT Parcel: <u>Sheak bay tip Vanderlin drive</u>				Bore Name: <u>GW17-30</u>							
				BCP Permit No: <u>BCP</u>							
Coordinate of Bore:		GDA2020 <input type="checkbox"/>	GDA94 <input type="checkbox"/>	WGS84 <input type="checkbox"/>	Zone: 52 <input checked="" type="checkbox"/>	Easting: <u>709381</u> Latitude(DMS):					
					53 <input type="checkbox"/>	Northing: <u>8630672</u> Longitude(DMS):					
From	To	Particulars of Strata		Name of Drilling Company: <u>Bores NT Pty Ltd</u>							
0	1	soil		Name of Driller: <u>B. Burrows</u>							
1	4	White substone		Name of supervising driller:							
4	30	Brown & yellow substone.		Date Commenced: <u>5/5/21</u>							
				Date Completed: <u>5/5/21</u>							
				Depth Drilled: <u>30</u> (m)							
				Completion Depth: <u>30</u> (m)							
METHOD OF DRILLING											
Auger <input type="checkbox"/>		Rotary Air <input checked="" type="checkbox"/>		Rotary Mud <input type="checkbox"/>		Sonic <input type="checkbox"/>					
						Other <input type="checkbox"/>					
Specify:											
HOLE DIAMETER				DRILLING FLUID							
From (m)	To (m)	Dia. (mm)		Type							
0	1	200		Air							
1	30	150		Air							
PARTICULARS OF CASING				PARTICULARS OF PERFORATIONS OR SCREEN STRINGS							
From (m)	To (m)	ID Dia (mm)	Type	From (m)	To (m)	ID Dia (mm)	Aperture (mm)	Type			
0.7	0.5	158	s/steel cover	24	30	50	0.5	Machine slotted			
0.6	30	50	PVC								
Casing Suspended: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>				Top of Packer Set at: _____ (m)							
Method: <u>seated</u>				Length of Packer: _____ (m)							
Height of Casing above GL: <u>0.7</u> (m)				Method of Packer Connection: _____ (m)							
CEMENTING/GRAVEL PACKING			WATER BEARING BEDS								
From (m)	To (m)	Type	Depth From (m)	To (m)	Yield (L/s)	SWL (m)	Duration (hrs)	Quality	EC (µS/cm)	pH	Bottle (No.)
0	19	Grout	23	26	0.1						
19	21	Natural backfill									
21	22	Bentonite									
22	30	Gravel									
			Cumulative Yield:								
STRATA / WATER SAMPLES			Completion Yield: <u>0.1</u> (L/s) Method: <u>air lift</u>				Duration (hrs): <u>1</u>				
Have been <input type="checkbox"/> Will be <input type="checkbox"/>			Completion SWL from GL: <u>3.2</u> (m)				Depth of Lift (m): <u>30</u>				
Left at:											

NOTE: No company advertising is to be imprinted on this certificate apart from where requested.



SKETCH AND BRIEF DESCRIPTION OF THE BORE'S LOCATION	RN:
<div style="position: relative;"> <div style="position: absolute; top: 10px; left: 10px;"> </div> </div>	

FINAL CONSTRUCTION STATUS
 Constructed and Capped Decommissioned *(Jump to 'Additional Information' to provide more Decommissioning Method details)*

THE TYPE OF BORE (Multiple Selection Acceptable)
 Production Bore Investigation Bore Monitoring Bore Other Specify:

THE PROPOSED USE OF PRODUCTION BORE (Optional and Multiple Selection Acceptable)
 Agriculture Public Water Supply Cultural Rural Stock and Domestic
 Aquaculture Environment Industry Mining Petroleum

Bore RN permanently displayed on completed bore?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Surface Slab Completed?	Yes <input type="checkbox"/>	No <input type="checkbox"/> <i>NA</i>
--	---	-----------------------------	-------------------------	------------------------------	---------------------------------------

ADDITIONAL INFORMATION ABOUT THE BORE: *(Include any information which may assist for future reference)*
 Bores NT Pty Ltd Ph: 0411 631 195 E: waterbores1@bigpond.com

I hereby declare that the information provided in this application and accompanying documents is to the best of my knowledge, true and correct

Name and Licence# of Driller under supervision	Signature of Driller under supervision	Date:
<i>B. Burrows 104</i>	<i>B. Burrows 104</i>	<i>7, 5, 21</i>
Name and Licence# of Licensed Driller:	Signature of Licensed Driller:	Date:

Note: The holder of the NT licence shall submit the form to the Department within 28 days of completion of any works.

FOR OFFICIAL USE ONLY

How Located:		GPS <input type="checkbox"/>	Survey <input type="checkbox"/>	Other <input type="checkbox"/>
Property Location:	Section No:	Lot No:	LTO Code:	Town of:
	Portion No:	Lease No:		Hundred of:
Coordinate Location Verified:	Datum:	GDA94 <input type="checkbox"/>	GDA2020 <input type="checkbox"/>	
	MGA Zone:	Easting:	Latitude (DMS):	
	Index Map Number:	Northing:	Longitude (DMS):	
Date Registered:	Dept Officer:	Signature:		
Remarks:				



EcOz
Environmental
Services

Project No: EZ21005 Project Name: Water & Carbon bore install Logged By: Andrew Lewis
 BORE RN: 42234 Datum: GDA94 Easting: 709460
 Bore Name: GW17-3 Zone: 52L Northing: 8630729
 Bore Type/Purpose: Monitoring Start Date: 05-05-21 Ground Level mAHD:
 Location: Shoal Bay WMF End Date: 06-05-21 SWL (mbTOC):
 Drilled by: Bores NT SWL Date: 06-05-21 TOC above ground level:

Depth (mbgl)	Depth (mAHD)	Bore Details	Depth (m)	Lithological Description	Remarks and Observations	Flow Rate L/s Moisture Content
0.0	0.00					
			0-0.5	Topsoil, gray	Organics and fire residue	Dry
1.0	-1.00					
			0.5 - 3m	Weathered Siltstone, white/pink/light purple		Dry
2.0	-2.00					
3.0	-3.00					

Key:

- Solid casing
- Steel Collar
- Cement
- Gravel
- Bentonite seal
- Screen
- Ground Water Level
- Water Strike

Natural Back fill

Groundwater Quality:

Field Measurements:

Date: _____
 pH: _____ Units: pH units
 Electrical Conductivity: _____ mS/cm
 Salinity: _____ ppt
 Dissolved Oxygen: _____ %
 Turbidity: _____ NTU
 Temperature: _____ °C

Additional Comments:

SW

W

NW

10

240

270

300

330

☉ 281°W (T) LAT: -12.379517 LON: 130.926566 ±10m ▲ 12m



GW18-3
EcOz Environmental

Water & carbon bore install
06/05/2021 07:49:38



☉ 265°W (T) LAT: -12.379501 LON: 130.926581 ±9m ▲ 12m



GW18-12
EcOz Environmental

Water & carbon bore install
06/05/2021, 07:49:14

STATEMENT OF BORE

Pursuant to section 53 of the Water Act and section 11 of the Water Regulations

Name of Owner: <u>Darwin City Council</u>				Bore Registration No: RN <u>42233</u>	
Street address /NT <u>Shoal bay tip</u>				Bore Name: <u>GW18-12</u>	
Parcel:				BCP Permit No: BCP	
Coordinate of Bore:		GDA2020 <input type="checkbox"/>	GDA94 <input type="checkbox"/>	WGS84 <input type="checkbox"/>	Zone: 52 <input checked="" type="checkbox"/>
				Easting: <u>709461</u>	Latitude(DMS):
				Northing: <u>8630728</u>	Longitude(DMS):
From	To	Particulars of Strata			
<u>0</u>	<u>1</u>	<u>soil</u>			
<u>1</u>	<u>3</u>	<u>White silt stone</u>			
<u>3</u>	<u>12</u>	<u>Brown & yellow siltstone</u>			
Name of Drilling Company: Bores NT Pty Ltd					
Name of Driller: <u>B. Burrows</u>					
Name of supervising driller:					
Date Commenced: <u>6/5/21</u>					
Date Completed: <u>6/5/21</u>					
Depth Drilled: <u>12</u> (m)					
Completion Depth: <u>12</u> (m)					
METHOD OF DRILLING					
Auger	Rotary Air	Rotary Mud	Sonic	Other	
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Specify:					
HOLE DIAMETER				DRILLING FLUID	
From (m)	To (m)	Dia. (mm)	Type		
<u>0</u>	<u>1</u>	<u>200</u>	<u>AIR</u>		
<u>1</u>	<u>12</u>	<u>150</u>	<u>AIR</u>		
PARTICULARS OF CASING				PARTICULARS OF PERFORATIONS OR SCREEN STRINGS	
From (m)	To (m)	ID Dia (mm)	Type	From (m)	To (m)
<u>to 7</u>	<u>0.5</u>	<u>158</u>	<u>s/steel</u>	<u>9</u>	<u>12</u>
<u>to 6</u>	<u>12</u>	<u>50</u>	<u>PVC</u>		
				ID Dia (mm)	Aperture (mm)
					<u>Machine slots</u>
				Type	
Casing Suspended: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>					
Method: <u>sealed</u>				Top of Packer Set at: _____ (m)	
Height of Casing above GL: <u>to 7</u> (m)				Length of Packer: _____ (m)	
				Method of Packer Connection: _____	
CEMENTING/GRAVEL PACKING			WATER BEARING BEDS		
From (m)	To (m)	Type	Depth	Yield	SWL
			From (m)	To (m)	(m)
<u>0</u>	<u>6</u>	<u>GROUT</u>		<u>12</u>	<u>Seepage</u>
<u>6</u>	<u>7</u>	<u>Sandfill</u>			
<u>7</u>	<u>8</u>	<u> Bentonite</u>			
<u>8</u>	<u>12</u>	<u>Gravel</u>			
			Cumulative Yield:		
STRATA / WATER SAMPLES			Completion Yield:	Method:	Duration (hrs):
Have been	<input type="checkbox"/>	Will be <input type="checkbox"/>	<u>Seepage</u> (L/s)	<u>Air lift</u>	<u>1</u>
Left at:			Completion SWL from GL: <u>4.2</u> (m)		Depth of Lift (m): <u>12</u>

NOTE: No company advertising is to be imprinted on this certificate apart from where requested.



SKETCH AND BRIEF DESCRIPTION OF THE BORE'S LOCATION

RN:

Large empty rectangular area for sketch and description.



FINAL CONSTRUCTION STATUS

Constructed and Capped Decommissioned (Jump to 'Additional Information' to provide more Decommissioning Method details)

THE TYPE OF BORE (Multiple Selection Acceptable)

Production Bore Investigation Bore Monitoring Bore Other Specify:

THE PROPOSED USE OF PRODUCTION BORE (Optional and Multiple Selection Acceptable)

Agriculture Public Water Supply Cultural Rural Stock and Domestic
Aquaculture Environment Industry Mining Petroleum

Bore RN permanently displayed on completed bore? Yes No Surface Slab Completed? Yes No NA

ADDITIONAL INFORMATION ABOUT THE BORE: (Include any information which may assist for future reference)

Bores NT Pty Ltd Ph: 0411 631 195 E:waterbores1@bigpond.com

I hereby declare that the information provided in this application and accompanying documents is to the best of my knowledge, true and correct

Name and Licence# of Driller under supervision Signature of Driller under supervision Date: / /

B. Burrows 104

B. Burrows - 104

Name and Licence# of Licensed Driller: Signature of Licensed Driller: Date: 6.5.21

Note: The holder of the NT licence shall submit the form to the Department within 28 days of completion of any works.

FOR OFFICIAL USE ONLY

How Located: GPS Survey Other

Property Section No: Lot No: LTO Code: Town of:
Location: Portion No: Lease No: Hundred of:

Coordinate Datum: GDA94 GDA2020
Location MGA Zone: Easting: Latitude (DMS):
Verified: Index Map Number: Northing: Longitude (DMS):

Date Registered: Dept Officer: Signature:

Remarks: