BOREHOLE LOG

BOREHOLE No.: BH09

SHEET: 1 OF 4

Tonkin+Taylor

PROJECT: EEETA
JOB No.: 1097984.1000.2000
LOCATION: Tana Russet

CO-ORDINATES: 168.31043900° (WGS84) -17.72956400°
DIRECTION: 180°
ANGLE FROM HORIZ.: -90°

R.L. GROUND: 1.40m
R.L. COLLAR: 1.40m
DATUM: ELLIPSOID
SURVEY: Map or aerial photograph

DRILLED BY: Jono
LOGGED BY: COCU
CHECKED: CRB
START DATE: 11/02/2026
FINISH DATE: 12/02/2026
CONTRACTOR: Vanuatu Drilling

GEOLOGICAL UNIT	MATERIAL DESCRIPTION (SOIL: Classification, colour, consistency / density, moisture, plasticity; ROCK: Weathering, colour, fabric, name, strength, cementation)	Rock Weathering	Rock Strength	Sampling Method	Core Recovery (%)	Testing	RL (m)	Depth (m)	Graphic Log	ROCK MASS DISCONTINUITIES: Defect Log	Fracture Spacing (mm)	RQD (%)	Description & Additional Observations	Water Level / Fluid Loss (%)	Casing	Installation	Core Box No
Reclamation Fill	*0.00m:* Sandy fine to coarse GRAVEL, trace rootlets; brown and white. Loosely packed, dry, poorly graded. Gravel, sub-rounded, Coral; sand, fine to coarse. [RECLAMATION FILL]			HQTT	40		1	0									
	0.20m: Cobbly coarse GRAVEL, trace silt. Loosely packed, moist, poorly graded. Gravel, sub-angular, Coral; cobbles, up to 120mm.																
	0.60m: CORE LOSS - Suspect core bound.																
	1.50m: Fine to coarse GRAVEL, some sand, trace silt; brown and white. Loose to medium dense, moist, poorly graded. Gravel, sub-angular, Coral; sand, fine to coarse.			SPT	44	2/2 // 3/2/3/2 **N=10**	0	1									
	1.70m: NO RECOVERY - Confirmed slipped out of SPT spoon.			HQTT	67		-1	2									
	1.95m: Fine to coarse GRAVEL, some sand, trace silt; brown and white. Loosely packed, moist, poorly graded. Gravel, sub-angular, Coral; sand, fine to coarse.																
	2.40m: Coarse GRAVEL; black and white. Loosely packed, moist, poorly graded. Gravel, sub-angular, Coral, concrete and metal.																
	2.65m: CORE LOSS - Suspect core bound.			SPT	100	3/2 // 3/2/2/2 **N=9**	-2	3									
	3.00m: Fine to coarse SAND, some silt; black. Loose, moist.																
	3.05m: Gravelly fine to coarse SAND, some silt; light greyish white. Loose, moist, well graded. Sand, angular; gravel, fine to coarse, angular, basalt, Coral and Shell fragments.			HQTT	10		-3	4									
	3.45m: Fine to coarse GRAVEL, some sand, trace silt; brown and white. Loosely packed, moist, poorly graded. Gravel, sub-angular, Coral; sand, fine to coarse.																
	3.55m: CORE LOSS - Suspect washed out, coral sand and gravel. [PERI-REEF DEPOSITS]																
Peri-reef Deposits	*4.50m:* Fine to coarse SAND, some gravel, trace silt; light greyish white. Medium dense, moist, well graded; gravel, fine to coarse, sub-angular.			SPT	100	3/3 // 4/3/5/6 **N=18**	-4	5					*4.50 - 4.95m:* PSD - 27% gravel, 53% sand and 20% fines				
	5.15 - 5.25m: Locally. Black organic staining.																
	5.25m: CORE LOSS - Suspect washed out.			HQTT	29		-5	6									
	6.00m: Sandy fine to coarse GRAVEL, trace silt; brown and white. Loose, moist, poorly graded. Gravel, sub-angular, Coral and Shell fragments; sand, fine to coarse.			SPT	100	2/1 // 3/2/1/1 **N=7**	-6	7									
	6.60m: CORE LOSS - Suspect washed out. White coral SAND.			HQTT	14		-7	8									
	7.50m: Silty fine to medium SAND, some gravel; light brown. Loose to medium dense, moist, poorly graded; gravel, coarse, sub-rounded, Coral and Shell fragments.			SPT	100	3/2 // 2/3/1/4 **N=10**	-8	9									
	8.10m: CORE LOSS - Suspect washed out.			HQTT	14												
	9.00m: Sandy SILT, some gravel; light brownish white. Soft, moist, non-plastic, dilatant; sand, fine to medium; gravel, fine to coarse, sub-rounded, Coral.			SPT	100	2/1 // 0/1/0/1 **N=2**							*9.00 - 9.45m:* PSD - 31% gravel, 26% sand and 43% fines				
				HQTT	86												

Water Level / Fluid Loss (%): 25, 50, 75 — 14/02/2026

Box 0.00-7.95m

COMMENTS: 1. Borehole has downhole geophysics installation.

Hole Depth 31m

Scale 1:50

Rev.: A

TTNZ_20251211 - GeneralLog - 6/05/2026 10:32:57 am - Produced with Core-GS by GeRoc

BOREHOLE LOG

Tonkin+Taylor

BOREHOLE No.: BH09

SHEET: 2 OF 4

PROJECT: EEETA
JOB No.: 1097984.1000.2000
LOCATION: Tana Russet

CO-ORDINATES: 168.31043900° (WGS84) -17.72956400°
DIRECTION: 180°
ANGLE FROM HORIZ.: -90°

R.L. GROUND: 1.40m
R.L. COLLAR: 1.40m
DATUM: ELLIPSOID
SURVEY: Map or aerial photograph

DRILLED BY: Jono
LOGGED BY: COCU
CHECKED: CRB
START DATE: 11/02/2026
FINISH DATE: 12/02/2026
CONTRACTOR: Vanuatu Drilling

GEOLOGICAL UNIT	MATERIAL DESCRIPTION (SOIL: Classification, colour, consistency / density, moisture, plasticity; ROCK: Weathering, colour, fabric, name, strength, cementation)	Rock Weathering (UW SW MW HW CW EW RS)	Rock Strength (VS+ S MS W VW EW)	Sampling Method	Core Recovery (%)	Testing	RL (m)	Depth (m)	Graphic Log	ROCK MASS DISCONTINUITIES: Defect Log	Fracture Spacing (mm) (2000 600 200 60 20)	RQD (%)	Description & Additional Observations	Water Level / Fluid Loss (%) (25 50 75)	Casing	Installation	Core Box No
Peri-reef Deposits	[CONT] *9.00m:* Sandy SILT, some gravel; light brownish white. Soft, moist, non-plastic, dilatant; sand, fine to medium; gravel, fine to coarse, sub-rounded, Coral.			HQTT	86		-9										
	10.35m: CORE LOSS - Suspect core bound.			SPT	100	2/1// 4/8/9/6 **N=27**											
	10.50m: Fine to coarse SAND, some silt and some gravel; light brownish white. Very loose to loose, moist, well graded, dilatant slow; gravel, fine to coarse, sub-rounded, Coral.							11									
	10.70m: Coarse GRAVEL, minor sand; white. Medium dense, moist, poorly graded. Gravel, sub-angular, Coral.			HQTT	29		-10										
	10.95m: Fine to coarse GRAVEL, some sand, trace silt; light brownish white. Loosely packed, moist, poorly graded. Gravel, sub-angular, Coral and Shell fragments; sand, fine to coarse.																
	11.25m: CORE LOSS - Suspect washed out.			SPT	100	4/3// 3/2/2/1 **N=8**		12					*12.00 - 12.45m:* PSD - 46% gravel, 26% sand and 28% fines				
	12.00m: Fine to coarse GRAVEL, some sand, trace silt; light brownish white. Loose, moist, poorly graded. Gravel, sub-angular, Coral; sand, fine to coarse.						-11										
	12.60m: CORE LOSS - Suspect washed out.			HQTT	14			13									
	13.50m: Gravelly fine to coarse SAND, minor silt; light brown. Medium dense, moist, well graded; gravel, fine to coarse, sub-angular, Coral and Shell fragments.			SPT	105	3/3// 7/16/16/11 for 55mm **N>=50** Bouncing	-12										
	13.70m: Cobbly coarse GRAVEL, trace sand; white. Very dense, moist, poorly graded. Gravel, angular, Coral; cobbles, up to 150mm.			HQTT	98			14									Box 7.95-14.40m
	15.00m: Gravelly fine to coarse SAND, some silt; brownish grey. Loose, moist, well graded; gravel, fine to coarse, sub-angular, Coral and Shell fragments.			SPT	100	4/2// 2/2/2/2 **N=8**	-13						*15.00 - 15.45m:* PSD - 32% gravel, 38% sand and 30% fines				
	15.45m: Coarse GRAVEL, minor sand; white and light brown. Loosely packed, moist, poorly graded. Gravel, sub-rounded to sub-angular, Coral.							15									
	15.75m: CORE LOSS - Suspect washed out.			HQTT	29		-14										
	16.50m: Gravelly fine to coarse SAND, minor silt; light brownish grey. Loose to medium dense, moist, well graded; gravel, fine to coarse, sub-angular, Coral and Shell fragments.			SPT	100	4/3// 3/3/2/2 **N=10**		16									
	17.00m: Fine to coarse GRAVEL, minor sand; light brownish white. Loosely packed, moist, poorly graded. Gravel, sub-rounded, Coral; sand, fine to coarse.						-15										
	17.25m: CORE LOSS - Suspect washed out.			HQTT	29			17									
	18.00m: Sandy fine to coarse GRAVEL, trace silt; grey. Very dense, moist, poorly graded. Gravel, sub-angular, Coral and Shell fragments; sand, fine to coarse.			SPT	100	3/6// 8/27/15 for 30 mm **N>=50**	-16										
	18.33m: Fine to coarse GRAVEL, some sand, trace silt; light brownish white. Loosely packed, moist, poorly graded. Gravel, sub-rounded to sub-angular, Coral; sand, fine to coarse.							18									
	18.80m: CORE LOSS - Suspect washed out.			HQTT	40		-17										
	19.50m: Gravelly fine to coarse SAND; grey. Loose, moist, well graded; gravel, fine to coarse, sub-angular, Coral and Shell fragments.			SPT	100	2/2// 1/1/1/3 **N=6**		19									
							-18										

COMMENTS: 1. Borehole has downhole geophysics installation.

Hole Depth 31m

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BOREHOLE LOG

Tonkin+Taylor

BOREHOLE No.: BH09

SHEET: 3 OF 4

PROJECT: EEETA
JOB No.: 1097984.1000.2000
LOCATION: Tana Russet

CO-ORDINATES: 168.31043900° (WGS84) -17.72956400°
DIRECTION: 180°
ANGLE FROM HORIZ.: -90°

R.L. GROUND: 1.40m
R.L. COLLAR: 1.40m
DATUM: ELLIPSOID
SURVEY: Map or aerial photograph

DRILLED BY: Jono
LOGGED BY: COCU
CHECKED: CRB
START DATE: 11/02/2026
FINISH DATE: 12/02/2026
CONTRACTOR: Vanuatu Drilling

GEOLOGICAL UNIT	MATERIAL DESCRIPTION (SOIL: Classification, colour, consistency / density, moisture, plasticity; ROCK: Weathering, colour, fabric, name, strength, cementation)	Rock Weathering	Rock Strength	Sampling Method	Core Recovery (%)	Testing	RL (m)	Depth (m)	Graphic Log	ROCK MASS DISCONTINUITIES: Defect Log	Fracture Spacing (mm)	RQD (%)	Description & Additional Observations	Water Level / Fluid Loss (%)	Casing	Installation	Core Box No
Peri-reef Deposits	*19.85m:* Fine to coarse SAND, some gravel, minor silt; brown. Loose, moist, well graded; gravel, fine to medium, angular, shell fragments.			HQTT	86	BH09_UCS @ 20.70m	-19										Box 14.40-20.50m
	19.95m: CORE LOSS - Suspect washed out.																
	20.10m: Fine to coarse SAND, some gravel, minor silt; grey. Loosely packed, moist, well graded; gravel, fine to medium, angular, shell fragments.							21					*20.70 - 20.90m:* UCS - 99 MPa				
	20.35m: Slightly weathered, white, LIMESTONE. Weak, well cemented, coarse grained. [REEF LIMESTONE FORMATION]					20 for 20mm **N>=50** Solid Cone Bouncing Refusal	-20										
	21.25m: Slightly weathered, light brown, LIMESTONE. Extremely weak, poorly cemented. Soil description: coarse GRAVEL, some sand; light brown. Tightly packed, moist, poorly graded. Gravel, sub-angular, Coral.			HQTT	34			22									
	21.50m: CORE LOSS - Suspect washed out. Sandy coralline material.						-21										
				SPT	0	1/1 // 0/3/5/9 **N=17**		23									
Reef Limestone Formation	*23.30m:* Slightly weathered, light brownish white, LIMESTONE. Extremely weak, poorly cemented, coarse grained. Soil description: fine to coarse GRAVEL, some sand; light brownish white. Very dense, moist, poorly graded. Gravel, sub-angular, Coral.			HQTT	67		-22										
						20 for 20mm **N>=50**		24									
				HQTT	61		-23										
	24.90m: CORE LOSS - Suspect core bound.							25									
	25.50m: Slightly weathered, light brownish white streaked black, LIMESTONE. Extremely weak, poorly cemented, coarse grained. Soil description: fine to coarse GRAVEL, some sand, trace silt; light brownish white streaked black. Very dense, moist, poorly graded. Gravel, sub-angular, Coral; sand, fine to coarse.			SPTC	100	20/30// for 65mm **N>=50** Solid Cone	-24										
				HQTT	74			26									
	26.50m: CORE LOSS - Suspect washed out.						-25										
				SPTC	0	14/15// 13/9/16/12 for 65mm **N>=50** Solid Cone		27									
	28.00m: Slightly weathered, light brownish white, LIMESTONE. Very weak, poorly cemented, coarse grained.			HQTT	47		-26										
	28.50m: CORE LOSS - Suspect washed out.			SPTC	0	12/15// 13/10/20/7 for 15mm **N>=50** Solid Cone		28									
	29.10m: Slightly weathered, light brownish white, LIMESTONE. Very weak, poorly cemented, coarse grained.			HQTT	81		-27										
								29									
							-28										Box 20.50-27.00m

COMMENTS: 1. Borehole has downhole geophysics installation.

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BOREHOLE LOG

BOREHOLE No.: BH09

SHEET: 4 OF 4

Tonkin+Taylor

PROJECT: EEETA
JOB No.: 1097984.1000.2000
LOCATION: Tana Russet

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R.L. GROUND: 1.40m
R.L. COLLAR: 1.40m
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Reef Limestone Formation	[CONT] *29.10m:* Slightly weathered, light brownish white, LIMESTONE. Very weak, poorly cemented, coarse grained.			HQTT	100		-29	31									Box 27.00-31.00m
	31m: END OF BOREHOLE						-30	32									
							-31	33									
							-32	34									
							-33	35									
							-34	36									
							-35	37									
							-36	38									
							-37	39									
							-38										

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CORE PHOTOS

BOREHOLE No.: **BH09**

Hole Location: Tana Russet

PROJECT: EEETA	LOCATION: Port Vila	JOB No.: 1097984.1000.2000
CO-ORDINATES: 168.31043899999995 (WGS84) -17.729564 R.L.: 1.40m DATUM: ELLIPSOID	DRILL TYPE: Trailer rig METHOD: Rotary cored	HOLE STARTED: 11/02/2026 HOLE FINISHED: 12/02/2026 DRILLED BY: Vanuatu Drilling LOGGED BY: COCU CHECKED: CRB



0.00-7.95m



7.95-14.40m

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BOREHOLE No.: **BH09**

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14.40-20.50m



20.50-27.00m

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CO-ORDINATES: 168.31043899999995 (WGS84) -17.729564 R.L.: 1.40m DATUM: ELLIPSOID	DRILL TYPE: Trailer rig METHOD: Rotary cored	HOLE STARTED: 11/02/2026 HOLE FINISHED: 12/02/2026 DRILLED BY: Vanuatu Drilling LOGGED BY: COCU CHECKED: CRB



27.00-31.00m

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