# BOREHOLE LOG

Tonkin+Taylor

BOREHOLE No.: BH03

SHEET: 1 OF 3

PROJECT: EEETA
JOB No.: 1097984.1000.2000
LOCATION: Lolam House

CO-ORDINATES: 168.31441700° (WGS84) -17.73874900°
DIRECTION: 180°
ANGLE FROM HORIZ.: -90°

R.L. GROUND: 2.30m
R.L. COLLAR: 2.30m
DATUM: ELLIPSOID
SURVEY: Map or aerial photograph

DRILLED BY: Jono
LOGGED BY: REOL
CHECKED: CRB
START DATE: 23/01/2026
FINISH DATE: 24/01/2026
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:* CORE LOSS - Suspect washed out. [RECLAMATION FILL] | | | | | | | | | | | | | | | | |
| | *0.60m:* Sandy fine to coarse GRAVEL, some silt; light brown and grey. Medium dense, moist, poorly graded. Gravel, sub-angular, coral. | | | HQTT | 60 | | | | | | | | | | | | |
| Peri-reef Deposits | *1.60m:* Gravelly fine to coarse SAND, minor silt; light brown. Medium dense, moist, well graded; gravel, fine to medium, sub-rounded, coral. [PERI-REEF DEPOSITS] | | | SPT | 100 | 6/5// 5/5/5/4 N=19 | | | | | | | *1.50 - 1.95m:* PSD - 34% gravel, 57% sand and 9% fines | | | | |
| | *1.95m:* CORE LOSS - Suspect washed out. Small finger coral samples stuck in drill bit. | | | HQTT | 0 | | | | | | | | | | | | |
| | *3.00m:* Fine to coarse GRAVEL, minor sand; brown and white. Medium dense, moist, well graded. Gravel, sub-rounded, coral and shell fragments. | | | SPT | 100 | 3/2// 3/3/4/3 N=13 | | | | | | | | | | | |
| | *3.30m:* Fine to coarse SAND, some silt, minor gravel; light brown. Medium dense, moist, poorly graded; gravel, medium, sub-rounded, coral. | | | | | | | | | | | | | | | | |
| | *3.45m:* CORE LOSS - Suspect washed out. SAND and coral gravels. | | | HQTT | 5 | | | | | | | | | | | | |
| | *4.45m:* Gravelly fine to coarse SAND, some silt; light brownish grey. Medium dense, moist, well graded; gravel, fine to coarse, sub-rounded, coral. | | | SPT | 100 | 4/4// 5/5/5/3 N=18 | | | | | | | *4.50 - 4.95m:* PSD - 42% gravel, 43% sand and 15% fines | | | | |
| | *4.95m:* CORE LOSS - Suspect washed out. Light grey SAND and coral gravel. | | | | | | | | | | | | | | | | |
| | *5.20m:* Fine to coarse SAND, some silt and some gravel; light brown. Medium dense, moist, well graded; gravel, fine to coarse, sub-rounded, coral. | | | HQTT | 76 | | | | | | | | | | | | |
| | | | | SPT | 100 | 6/6// 6/4/5/5 N=20 | | | | | | | | | | | |
| | *6.45m:* CORE LOSS - Suspect washed out. Grey SAND. | | | HQTT | 0 | | | | | | | | | | | | |
| | *7.50m:* Silty fine to coarse SAND, some gravel; brownish grey. Medium dense, moist, well graded; gravel, fine to coarse. | | | SPT | 100 | 3/2// 3/3/3/3 N=12 | | | | | | | *7.50 - 7.95m:* PSD - 22% gravel, 54% sand and 24% fines | | | | |
| | *7.95m:* CORE LOSS - Suspect washed out. Grey SAND. | | | HQTT | 5 | | | | | | | | | | | | |
| | *8.95m:* Fine to coarse GRAVEL, some silt and some sand; brownish grey. Loosely packed, moist, poorly graded. Gravel, sub-rounded, coral. Sand and fines washed out. | | | SPT | 100 | 4/6// 6/6/6/5 N=23 | | | | | | | | | | | |
| | *9.00m:* Gravelly fine to coarse SAND, minor silt; yellowish light brown. Medium dense, moist, well graded; gravel, fine to coarse, sub-angular, coral. | | | HQTT | 52 | | | | | | | | | | | | |

Water Level / Fluid Loss (%): 25, 50, 75
Fracture Spacing (mm): 2000, 600, 200, 60, 20
Core Box No: Box 0.00-6.45m

COMMENTS: 1. Following completion of Drilling to 30m, the PVC installation and grouting with tremie pipe were installed on 24/01/26 and 26/01/26.

Hole Depth 30m

Scale 1:50

Rev.: A

TTNZ_20251211 - GeneralLog - 6/05/2026 9:01:34 am - Produced with Core-GS by GeRoc

# BOREHOLE LOG

Tonkin+Taylor

BOREHOLE No.: BH03

SHEET: 2 OF 3

PROJECT: EEETA
JOB No.: 1097984.1000.2000
LOCATION: Lolam House

CO-ORDINATES: 168.31441700° (WGS84) -17.73874900°
DIRECTION: 180°
ANGLE FROM HORIZ.: -90°

R.L. GROUND: 2.30m
R.L. COLLAR: 2.30m
DATUM: ELLIPSOID
SURVEY: Map or aerial photograph

DRILLED BY: Jono
LOGGED BY: REOL
CHECKED: CRB
START DATE: 23/01/2026
FINISH DATE: 24/01/2026
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 | *9.45m:* CORE LOSS - Suspect washed out. | | | HQTT | 52 | | | | | | | | | | | | |
| | *9.95m:* SAND and COBBLES, some gravel; light brown. Loosely packed, moist, poorly graded. Cobbles, up to 80mm, sub-angular, coral. | | | SPT | 100 | 3,5// 9/16/11 for 50 mm **N>=50** Bouncing | | | | | | | | | | | |
| | *10.50m:* Sandy fine to coarse GRAVEL; brown. Very dense, moist, well graded. Gravel, sub-angular, coral. [REEF LIMESTONE FORMATION] | | | | | | | | | | | | | | | | |
| | *10.95m:* Moderately weathered, dark brown and white, LIMESTONE. Very weak, well cemented. Shelly, crumbles to medium gravel. Fresh surfaces also dark brown. Small voids. | | | HQTT | 100 | | | | | | | | | | | | |
| | *12.00m:* CORE LOSS - Suspect washed out. | | | | 0 | 20 for 60mm **N>=50** Solid Cone Bouncing Refusal | | | | | | | | | | | |
| | *12.50m:* Moderately weathered, white and dark brown, LIMESTONE. Extremely weak to very weak, well cemented, coarse grained. Shelly, crumbles to medium gravel. Fresh surfaces also dark brown. Small voids. | | | HQTT | 69 | BH03_UCS @ 12.66m | | | | | | | *12.66 - 12.86m:* UCS - 1.4 MPa | | | | Box 6.45-13.00m |
| | | | | SPTC | 0 | 9/14// 11 for 50mm **N>=50** Solid Cone Bouncing | | | | | | | *13.70 - 13.80m:* UCS - 8.1 MPa | | | | |
| | | | | | | BH03_UCS @ 13.70m | | | | | | | | | | | |
| | *14.00m:* CORE LOSS - Suspect washed out. | | | HQTT | 77 | | | | | | | | | | | | |
| | *14.50m:* Moderately weathered, dark brown and white, LIMESTONE. Extremely weak to very weak, well cemented. Shelly, crumbles to medium gravel. Fresh surfaces also dark brown. Small voids. | | | | | | | | | | | | | | | | |
| | *15.00m:* CORE LOSS - Suspect washed out. | | | SPTC | 0 | 10/4// 2,2,3,2 for 10 mm **N>=50** Solid Cone Bouncing | | | | | | | | | | | |
| | *15.40m:* Moderately weathered, dark brown and white, LIMESTONE. Extremely weak to very weak, poorly cemented to moderately cemented, coarse grained. Shelly, crumbles to medium gravel. Fresh surfaces also dark brown. Small voids. | | | HQTT | 92 | | | | | | | | | | | | |
| | *16.50m:* CORE LOSS - Suspect washed out. | | | SPTC | 0 | 11/20// for 65mm **N>=50** Solid Cone Bouncing Refusal | | | | | | | | | | | |
| | *16.75m:* Moderately weathered, white and dark brown, LIMESTONE. Extremely weak to very weak, poorly cemented to moderately cemented, coarse grained. Shelly, crumbles to medium gravel. Fresh surfaces also dark brown. Small voids. | | | HQTT | 92 | | | | | | | | | | | | Box 13.00-17.70m |
| | *18.00m:* CORE LOSS - Suspect washed out. | | | SPTC | 0 | 15/23// for 60mm **N>=50** Solid Cone Bouncing Refusal | | | | | | | | | | | |
| | *18.50m:* Moderately weathered, dark brown and white, LIMESTONE. Extremely weak to very weak, poorly cemented to moderately cemented, coarse grained. Shelly, crumbles to medium gravel. Fresh surfaces also dark brown. Small voids. | | | HQTT | 74 | | | | | | | | *18.50 - 19.50m:* Shelly, crumbles to medium gravel. Fresh surfaces also dark brown. Small voids | | | | |
| Reef Limestone Formation | *19.50m:* CORE LOSS - Suspect washed out. | | | HQTT | 60 | | | | | | | | | | | | |

COMMENTS: 1. Following completion of Drilling to 30m, the PVC installation and grouting with tremie pipe were installed on 24/01/26 and 26/01/26.

**Hole Depth** 30m

Scale 1:50

Rev.: A

TTNZ_20251211 - GeneralLog - 6/05/2026 9:01:34 am - Produced with Core-GS by GeRoc

# BOREHOLE LOG

BOREHOLE No.: BH03

SHEET: 3 OF 3

Tonkin+Taylor

PROJECT: EEETA
JOB No.: 1097984.1000.2000
LOCATION: Lolam House

CO-ORDINATES: 168.31441700° (WGS84) -17.73874900°
DIRECTION: 180°
ANGLE FROM HORIZ.: -90°

R.L. GROUND: 2.30m
R.L. COLLAR: 2.30m
DATUM: ELLIPSOID
SURVEY: Map or aerial photograph

DRILLED BY: Jono
LOGGED BY: REOL
CHECKED: CRB
START DATE: 23/01/2026
FINISH DATE: 24/01/2026
CONTRACTOR: Vanuatu Drilling

| GEOLOGICAL UNIT | MATERIAL DESCRIPTION (SOIL: Classification, colour, consistency / density, moisture, plasticity; ROCK: Weathering, colour, fabric, name, strength, cementation) | Rock Weathering (HW SW MW HW DW 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Reef Limestone Formation | [CONT] *19.50m:* CORE LOSS - Suspect washed out. | | | | | | | | | | | | | | | | |
| | *20.10m:* Moderately weathered, dark brown and white, LIMESTONE. Extremely weak to very weak, poorly cemented to moderately cemented, coarse grained. Shelly, crumbles to medium gravel. Fresh surfaces also dark brown. Small voids. | | | HQTT | 60 | | -18 | 21 | | | | | | | | | |
| | *21.00m:* CORE LOSS - Suspect washed out. | | | SPTC | 0 | 16/8// for 50mm **N>=50** Solid Cone Bouncing Refusal | -19 | | | | | | | | | | |
| | *21.70m:* Moderately weathered, greyish white, LIMESTONE. Very weak, moderately cemented, coarse grained. Finger coral recovered as coarse gravel. | | | HQTT | 58 | | | 22 | | | | | | | | | |
| | *21.85m:* Moderately weathered, white and dark brown, LIMESTONE. Extremely weak to very weak, poorly cemented to moderately cemented, coarse grained. Shelly, crumbles to medium gravel. Fresh surfaces also dark brown. Small voids. | | | | | | -20 | | | | | | | | | | |
| | *22.50m:* CORE LOSS - Suspect washed out. | | | | | | | | | | | | | | | | |
| | *22.85m:* Moderately weathered, white and dark brown, LIMESTONE. Extremely weak to very weak, poorly cemented, coarse grained. Shelly, crumbles to medium gravel. Fresh surfaces also dark brown. Small voids. | | | HQTT | 43 | | -21 | 23 | | | | | | | | | Box 17.70-24.00m |
| | *24.00m:* CORE LOSS - Suspect washed out. | | | SPTC | 0 | 11/12// 20/10 for 35 mm **N>=50** Solid Cone Bouncing | | 24 | | | | | | | | | |
| | *24.40m:* Moderately weathered, white and dark brown, LIMESTONE. Extremely weak to very weak, poorly cemented to moderately cemented, coarse grained. Shelly, crumbles to medium gravel. Fresh surfaces also dark brown. Small voids. Recovered as: sandy GRAVEL. | | | HQTT | 89 | | -22 | 25 | | | | | | | | | |
| | *25.50m:* CORE LOSS - Suspect washed out. | | | SPTC | 0 | 13/8// 13/18/7/6 **N=44** Solid Cone | -23 | 26 | | | | | | | | | |
| | *26.20m:* Moderately weathered, white and dark brown, LIMESTONE. Extremely weak to very weak, poorly cemented to moderately cemented, coarse grained. Shelly, crumbles to medium gravel. Fresh surfaces also dark brown. Small voids. Recovered as: fine to medium GRAVEL, some sand. | | | HQTT | 76 | | -24 | | | | | | | | | | |
| | *27.00m:* CORE LOSS - Suspect washed out. | | | HQTT | 47 | | -25 | 27 | | | | | | | | | |
| | *27.80m:* Moderately weathered, white and dark brown, LIMESTONE. Extremely weak to very weak, moderately cemented, coarse grained. Shelly, crumbles to medium gravel. Fresh surfaces also dark brown. Small voids. | | | | | | | | | | | | | | | | |
| | *28.50m:* CORE LOSS - Suspect washed out. | | | SPTC | 0 | 7/5// 3/5/18/2 for 5 mm **N>=50** Solid Cone | -26 | 28 | | | | | | | | | |
| | *29.50m:* Same as description above. | | | HQTT | 45 | | -27 | 29 | | | | | | | | | Box 24.00-30.00m |
| | 30m: END OF BOREHOLE | | | | | | | | | | | | | | | | |

COMMENTS: 1. Following completion of Drilling to 30m, the PVC installation and grouting with tremie pipe were installed on 24/01/26 and 26/01/26.

Hole Depth 30m

Scale 1:50

Rev.: A

TTNZ_20251211 - GeneralLog - 6/05/2026 9:01:34 am - Produced with Core-GS by GeRoc

# CORE PHOTOS

BOREHOLE No.: **BH03**

**Hole Location:** Lolam House



| PROJECT: EEETA | LOCATION: Port Vila | JOB No.: 1097984.1000.2000 |
|---|---|---|
| CO-ORDINATES: 168.314417 (WGS84) -17.738749<br>R.L.: 2.30m<br>DATUM: ELLIPSOID | DRILL TYPE: Trailer rig<br>METHOD: Rotary cored | HOLE STARTED: 23/01/2026<br>HOLE FINISHED: 24/01/2026<br>DRILLED BY: Vanuatu Drilling<br>LOGGED BY: REOL CHECKED: CRB |




0.00-6.45m




6.45-13.00m

TTNZ_20251211 - GeneralLog - 6/05/2026 9:01:34 am - Produced with Core-GS by GeRoc

# CORE PHOTOS

BOREHOLE No.: **BH03**

**Hole Location:** Lolam House



| PROJECT: EEETA | LOCATION: Port Vila | JOB No.: 1097984.1000.2000 |
|---|---|---|
| CO-ORDINATES: 168.314417 (WGS84) -17.738749<br>R.L.: 2.30m<br>DATUM: ELLIPSOID | DRILL TYPE: Trailer rig<br>METHOD: Rotary cored | HOLE STARTED: 23/01/2026<br>HOLE FINISHED: 24/01/2026<br>DRILLED BY: Vanuatu Drilling<br>LOGGED BY: REOL CHECKED: CRB |




13.00-17.70m




17.70-24.00m

TTNZ_20251211 - GeneralLog - 6/05/2026 9:01:34 am - Produced with Core-GS by GeRoc

# CORE PHOTOS

BOREHOLE No.: **BH03**

**Hole Location:** Lolam House



| PROJECT: EEETA | LOCATION: Port Vila | JOB No.: 1097984.1000.2000 |
|---|---|---|
| CO-ORDINATES: 168.314417 (WGS84) -17.738749<br>R.L.: 2.30m<br>DATUM: ELLIPSOID | DRILL TYPE: Trailer rig<br>METHOD: Rotary cored | HOLE STARTED: 23/01/2026<br>HOLE FINISHED: 24/01/2026<br>DRILLED BY: Vanuatu Drilling<br>LOGGED BY: REOL CHECKED: CRB |




24.00-30.00m

TTNZ_20251211 - GeneralLog - 6/05/2026 9:01:34 am - Produced with Core-GS by GeRoc