



TEST PIT LOG

TP15

URS New Zealand Limited
287 Durham Street, Christchurch
Phone: 64.3.374.8500
Fax: 64.3.377.0655

Project No.: **42166927**
Grid: NZ Geodetic Datum 1949
Datum:

Project Reference: *undefined aquifer*
Ward Water Irrigation Scheme
unconfined

Drilling Contractor: **Ward Water Company Ltd**

Excavation Method:
**25 Tonne CAT 325B
Excavator - 1.0m
Toothhead Bucket**

Logged By: **AH**
Checked By:
Date Started: **11-6-08**
Date Finished: **11-6-08**

Relative Level: **mRL**
Coordinates: **5937258.00 mN
2609698.00 mE**

Client:
Ward Water Company Limited

Permit No: Location: **Flaxbourne Station** Feature:

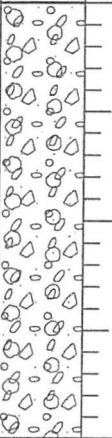
| DESCRIPTION OF STRATA | GRAPHIC LOG | DEPTH (m) | VANE SHEAR STRENGTH (kPa) | SCALAR BLOWS (N) | SAMPLING AND OTHER TESTING | GROUND WATER DATA AND COMMENTS |
|---|-------------|-----------|---------------------------|------------------|----------------------------|--------------------------------|
| Clay (Topsoil): light brown, dry, low plasticity, rootlets | | 0.0 | | 5 10 15 | | |
| Silty Clay: brown, orange/brown, dry to moist, low plasticity | | | | | | |
| Silty Gravel: brown, orange/brown, dry to moist, with subrounded to subangular, moderately weathered greywacke gravel and cobbles, some low plasticity clay, some subrounded greywacke boulders at 1.6m, tightly packed | | 1.0 | | | 1.2-1.5 m (BS_1.5m) | |
| | | 2.0 | | | | |
| | | 3.0 | | | 3.1-3.5 m (BS_3.5m) | |
| | | 4.0 | | | | |
| Sandy Silty Gravel: brown, orange/brown, moist, with subrounded, moderately weathered greywacke gravel, cobbles, and some boulders sandy matrix | | | | | | |

| COMMENTS | TEST PIT SECTION | TEST PIT TERMINATED AT: |
|-----------------------------|------------------|--|
| Target Depth. | | Target Depth <input checked="" type="checkbox"/> |
| Limit of Reach of Excavator | | Refusal <input type="checkbox"/> |
| | | Flooding <input type="checkbox"/> |
| | | Caving/collapse <input type="checkbox"/> |
| | | SAMPLE TYPE: |
| | | Bag Sample BAG |
| | | Tube Sample TUBE |
| | | Vane Sample VANE |

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|--|--|---|--|---|
| URS New Zealand Limited 287 Durham Street, Christchurch | | Phone: 64.3.374.8500 Fax: 64.3.377.0655 | Project No.: 42166927 | Project Reference: Ward Water Irrigation Scheme |
| Drilling Contractor: Ward Water Company Ltd | | Grid: NZ Geodetic Datum 1949 Datum: | | |
| Excavation Method: 25 Tonne CAT 325B Excavator - 1.0m Toothhead Bucket | Logged By: AH Checked By: Date Started: 11-6-08 Date Finished: 11-6-08 | Relative Level: mRL Coordinates: 5937258.00 mN 2609698.00 mE | | Client: Ward Water Company Limited |
| Permit No: | | | Location: Flaxbourne Station Feature: | |

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|--|--|-------------------|---------------------------|------------------|---|--|
| As above with rounded to subrounded moderately to highly weathered greywacke gravel (coarse), and cobbles, some subangular greywacke gravel and cobbles, sandy matrix, some clay in matrix, trace mudstone fragments |  | 5.0 6.0 7.0 | | 5 10 15 | 6.2-6.5 m (BS_6.5m) | |
| Slightly greater abundance of mudstone fragments | | | | | | |
| End of Test Pit at 7.0m (limit of reach of excavator) | | 7.0 8.0 9.0 | | | | |
| COMMENTS | TEST PIT SECTION | | | | TEST PIT TERMINATED AT: | |
| Target Depth. Limit of Reach of Excavator | | | | | | Target Depth <input checked="" type="checkbox"/> |
| | | | | | | Refusal <input type="checkbox"/> |
| | | | | | | Flooding <input type="checkbox"/> |
| | | | | | | Caving/collapse <input type="checkbox"/> |
| | | | | | | SAMPLE TYPE: |
| | | | | | | Bag Sample <input type="checkbox"/> BAG |
| | | | | | Tube Sample <input type="checkbox"/> TUBE | |
| | | | | | Vane Sample <input type="checkbox"/> VANE | |