<table>
<thead>
<tr>
<th>Identification</th>
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<tbody>
<tr>
<td>Station Name</td>
<td>Cape Lambert</td>
</tr>
<tr>
<td>Station identifier/number</td>
<td>62550 (ANTT)</td>
</tr>
<tr>
<td>Latitude</td>
<td>20° 35' 16.7&quot; S</td>
</tr>
<tr>
<td>Longitude</td>
<td>117° 11' 09.7&quot; E</td>
</tr>
<tr>
<td>Map Name</td>
<td></td>
</tr>
<tr>
<td>Map Number</td>
<td></td>
</tr>
<tr>
<td>Map Grid Northing</td>
<td></td>
</tr>
<tr>
<td>Map Grid Easting</td>
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</table>

Site description

Located at the end of the service wharf

Tide gauges represented by the red dots in picture below
<table>
<thead>
<tr>
<th>Reference Frame</th>
<th>Australian Western Standard Time</th>
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<tbody>
<tr>
<td>Time zone</td>
<td>Australian Western Standard Time</td>
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<tr>
<td>Vertical</td>
<td>LAT</td>
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<tr>
<td>Horizontal</td>
<td>GDA94</td>
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<tr>
<td>Stream direction</td>
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<tr>
<td>Tide Gauge Bench Marks</td>
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</tr>
<tr>
<td>TGBM I</td>
<td></td>
</tr>
<tr>
<td>Name and number</td>
<td>B923</td>
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<tr>
<td>Elevation</td>
<td>12.929 m (LAT)</td>
</tr>
<tr>
<td>TGBM II</td>
<td></td>
</tr>
<tr>
<td>Name and number</td>
<td>TBM SE light Pole bolt</td>
</tr>
<tr>
<td>Elevation</td>
<td>11.006 m (LAT)</td>
</tr>
<tr>
<td>TGBM III</td>
<td></td>
</tr>
<tr>
<td>Name and number</td>
<td></td>
</tr>
<tr>
<td>Elevation</td>
<td></td>
</tr>
<tr>
<td>Levelling</td>
<td></td>
</tr>
<tr>
<td>Authority</td>
<td>Department of Transport</td>
</tr>
<tr>
<td>Books</td>
<td>Field book 934</td>
</tr>
<tr>
<td>GPS</td>
<td>N/A</td>
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<tr>
<td>Span of Data Available</td>
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</tr>
<tr>
<td>Start Date</td>
<td>08/09/1983</td>
</tr>
<tr>
<td>End Date</td>
<td>29/11/2016</td>
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<td>Reporting</td>
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<tr>
<td>Frequency</td>
<td>Daily Download</td>
</tr>
<tr>
<td>Method</td>
<td>Dial up, landline</td>
</tr>
<tr>
<td>Measurement Units</td>
<td></td>
</tr>
<tr>
<td>Tidal Heights</td>
<td>mm</td>
</tr>
<tr>
<td>Tidal Streams</td>
<td>N/A</td>
</tr>
<tr>
<td>Data Owner Details</td>
<td></td>
</tr>
<tr>
<td>Name</td>
<td>Department of Transport</td>
</tr>
<tr>
<td>Postal Address</td>
<td>Marine House, 1 Essex Street, Fremantle, Western Australia 6160</td>
</tr>
<tr>
<td>Street Address</td>
<td>1 Essex Street, Fremantle</td>
</tr>
<tr>
<td>Email</td>
<td><a href="mailto:tides@transport.wa.gov.au">tides@transport.wa.gov.au</a></td>
</tr>
<tr>
<td><strong>Contact Officer Details</strong></td>
<td></td>
</tr>
<tr>
<td>---------------------------</td>
<td>---</td>
</tr>
<tr>
<td><strong>Name</strong></td>
<td>Tony Lamberto</td>
</tr>
<tr>
<td><strong>Position</strong></td>
<td>Manager Oceanographic Services</td>
</tr>
<tr>
<td><strong>Telephone</strong></td>
<td>(08) 9435 7673</td>
</tr>
<tr>
<td><strong>Email</strong></td>
<td>tony.lamberto@ transport.wa.gov.au</td>
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<table>
<thead>
<tr>
<th><strong>Data Custodian Details</strong></th>
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<tbody>
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<tr>
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</tr>
<tr>
<td><strong>Fax</strong></td>
<td>(08) 9435 7800</td>
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<thead>
<tr>
<th><strong>Data Access</strong></th>
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<tbody>
<tr>
<td><strong>Method</strong></td>
<td>Dial up</td>
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<table>
<thead>
<tr>
<th><strong>Sampling</strong></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Rate</strong></td>
<td>5 minutes</td>
</tr>
<tr>
<td><strong>Sampling Method</strong></td>
<td>Point sampling</td>
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</table>

<table>
<thead>
<tr>
<th><strong>Equipment Details</strong></th>
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</tr>
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<tbody>
<tr>
<td><strong>Sensor</strong></td>
<td>Float/Pulley assembly</td>
</tr>
<tr>
<td>- <strong>Type</strong></td>
<td>Stilling well</td>
</tr>
<tr>
<td>- <strong>Make</strong></td>
<td>N/A</td>
</tr>
<tr>
<td>- <strong>Model</strong></td>
<td>N/A</td>
</tr>
<tr>
<td>- <strong>Serial number</strong></td>
<td>N/A</td>
</tr>
<tr>
<td>- <strong>Output signal</strong></td>
<td>Mechanical</td>
</tr>
<tr>
<td>- <strong>Manufacturer</strong></td>
<td>In-house</td>
</tr>
<tr>
<td>Data Recorder</td>
<td>Handar</td>
</tr>
<tr>
<td>---------------</td>
<td>--------</td>
</tr>
<tr>
<td>- Type</td>
<td>Data logger</td>
</tr>
<tr>
<td>- Model</td>
<td>550B</td>
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<tr>
<td>- Input power requirements</td>
<td>12Volts</td>
</tr>
<tr>
<td>- Input</td>
<td>Pulse</td>
</tr>
<tr>
<td>- Manufacturer</td>
<td>Handar</td>
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<table>
<thead>
<tr>
<th>Other Equipment</th>
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</tr>
</thead>
<tbody>
<tr>
<td>- Type</td>
<td>Incremental shaft encoder</td>
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<tr>
<td>- Make</td>
<td>Handar</td>
</tr>
<tr>
<td>- Model</td>
<td>436A</td>
</tr>
<tr>
<td>- Parameters measured</td>
<td>Change vertical distance into a digital signal</td>
</tr>
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</table>

<table>
<thead>
<tr>
<th>Frequency of Systems Calibration</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Field</td>
<td>At least once a year</td>
</tr>
<tr>
<td>Laboratory</td>
<td>At least once a year</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Measurement Uncertainty</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Sensor Uncertainty</td>
<td>± 0.01 metres</td>
</tr>
<tr>
<td>Traceability</td>
<td>Hard copy of service record and levelling book</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Water level checks</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Frequency</td>
<td>At least once a year</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Estimate of Precision</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>- Time (St Dev in mins)</td>
<td>± 1 second</td>
</tr>
<tr>
<td>- Height (St Dev in meters)</td>
<td>± 0.02 metres</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>System Resolution</th>
<th>± 0.005 metres</th>
</tr>
</thead>
<tbody>
<tr>
<td>Status of readings</td>
<td>Near real time</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Reading Validation Process</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Detail how:</td>
<td></td>
</tr>
<tr>
<td>- Instrument biases were treated</td>
<td>Corrected for time lag</td>
</tr>
<tr>
<td>- Outliers were selected/dealt with</td>
<td>Greater than ± 3σ, checked manually</td>
</tr>
<tr>
<td>- Breaks in record dealt with</td>
<td>Flagged as -9999</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Comments/Notes</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Bad data</td>
<td>Replaced by -9999</td>
</tr>
</tbody>
</table>

Last Update : Tuesday, 27 June 2017