CSPCWG8-08.17A

8th CSPCWG Meeting
Turku, Finland, 29 November – 2 December 2011

Paper for Consideration by CSPCWG

Land Tint behind Title, Tidal Tables and Scales

Submitted by:	NZ
Executive Summary:	NZ does not meet S-4 B-301.1 that prefers land tint not be broken for title, tidal tables and scales.
Related Documents:	S-4
Related Projects:	None

Introduction / Background.

NZ removes land tint from behind the chart title, notes, tidal tables and linear scales. This does not meet the preference in S-4 B-301.1. We do show land tint behind compass roses. See following examples of titles, tidal tables and scales.

Analysis / Discussion.

This has been NZ practice since the NZ Hydrographic Office opened in 1949. Over the last 10 years the NZ Hydrographic Authority has worked towards bringing all NZ charts into alignment with S-4. This includes following any preference given in M-4.

We would like to know whether NZ is the only nation that removes land tint from behind the chart title, notes, tidal tables and linear scales. We also seek CSPCWG discussion on this NZ practice in order to inform our discussions on this matter.

Conclusions.

S-4 B-301.1 could be worded like B-301 which leaves this open to national discretion.

Recommendations.

None.

Justification and Impacts.

None

Action required of CSPCWG.

The CSPCWG is invited to:

> Consider, discuss and provide comment on NZ practice of removing land tint from behind the chart title, notes, tidal tables and linear scales.

WGS 84 DATUM
(see Note)

SEE RELATED PUBLICATIONS: NOTICES TO MARINERS (annual, recent, imminent and temporary changes), ADMIRALTY SAILING DIRECTIONS (local conditions, directions, regulations and port information), NZ NAUTICAL ALMANAC (tide tables, light list, weather transmissions, radio beacons), ADMIRALTY LIST OF RADIO SIGNALS (navigational warnings, pilot and port operations services, traffic management), MARINERS HANDBOOK (general information), ADMIRALTY CHART 5011 (symbols and abbreviations). **ENSURE THAT CHARTS AND PUBLICATIONS ARE KEPT CORRECTED.**

175° 5' 10' 15' 41°05' 00S

Toitu te Land whenua Information New Zealand

NEW ZEALAND

NORTH ISLAND - SOUTH COAST

APPROACHES TO WELLINGTON

DEPTHS IN METRES

SCALE 1:100 000 (41°)

Depths in metres (under thirty-one in metres and decimetres) reduced to Chart Datum which is approximately Lowest Astronomical Tide.
Heights in metres. Underlined figures are drying heights above Chart Datum; all other heights are above Mean High Water Springs.
Navigational Marks: IALA Maritime Buoyage System Region A (Red to Port).
Positions are on World Geodetic System 1984 (WGS 84).
Projection: Mercator.
Sources: For information on the quality of the hydrography see the Source Data Diagram. Topography derived mainly from Land Information New Zealand data.

SATELLITE DERIVED POSITIONS

Positions obtained from satellite navigation systems referred to WGS 84 Datum can be plotted directly on this chart. Caution must be exercised in the transfer of geographical positions to other charts not in terms of WGS 84 Datum.

KAIORI RIP

The Kaiori Rip extends between Sinclair Head and Cape Terawhiti. Extreme overfalls and tide rips may be experienced up to 2.75 miles offshore. An area of turbulent eddies exists periodically to the N of Cape Terawhiti. Depending on meteorological conditions Kaiori Rip sets NW from the time of HW at Wellington to 5 hours after, and sets SE from 7 hours to 1 hour before HW at Wellington. Maximum rates may exceed that shown (5.25 knots) at spring tides in certain meteorological conditions.

CURRENTS

The current in this area is strongly influenced by the prevailing wind and may vary from a north-going current at 0.9kn during moderate winds from the south to an east-north-east going current at 0.4kn during fresh northerly winds. In light variable winds the current sets to the east at 0.4kn.

CRAYPOT BUOYS

Craypot buoys which may present a hazard to small craft will be encountered in the eastern entrance to Tory Channel and close to shore in the western approaches to Wellington Harbour.

TIDAL STREAMS

Mariners should refer to the New Zealand Nautical Almanac for daily tidal stream predictions and other stream information. Complete spring and neap values for Tory Channel can be found in the New Zealand Nautical Almanac. The west (flood) stream can reach 5 knots and the east (ebb) stream is of similar strength. Weather conditions may considerably affect the tidal streams in Cook Strait.

NAVIGATIONAL AIDS

Certain lights, buoys and beacons in the inner waters and channels are not shown on this chart. For those the larger scale charts must be consulted.

FERRIES

Passenger/Vehicular Ferries regularly transit Cook Strait between Wellington Harbour and Picton via Tory Channel.

TORY CHANNEL REPORTING ARC

All inward bound vessels on arrival at the Tory Channel Reporting Arc and all outward bound vessels when passing a line between Mirukina Point Light and Te Uira Karapa East Point Light are to transmit a message to 'All Ships' on VHF Channel 16 giving ETA for entering the Tory Channel Controlled Navigation Zone (TCCNZ). Note: The broadcast may also be transmitted on VHF Channels 16 and 63.

AREA OF MAGNETIC DISTURBANCE

Mariners are warned that deviation of the compass may be experienced in shallow water in the near vicinity of the submarine power cables.

VOLUNTARY CODE

Vessels laden with oil or other harmful liquid substances in bulk are to keep at least 5 nautical miles off the land, and charted danger, or any outlying islands), until reaching the position where alteration is required to make port.

COOK STRAIT CABLE PROTECTION ZONE (CPZ)

The limits of the CPZ are outlined in the Submarine Cables and Pipeline Protection Order 2009 and subsequent amendments. The activities prohibited and penalties for non-compliance are outlined in the Submarine Cables and Pipelines Act 1996. Mariners should refer to legislation or the NZ Nautical Almanac.

TORY CHANNEL CONTROLLED NAVIGATION ZONE (TCCNZ)

Only one vessel of 350 gross tonnage or more is permitted to navigate in the Tory Channel Controlled Navigation Zone at any one time

Tidal Streams referred to HW at WELLINGTON

Hours	Geographical Position		41°14'.85S 174°21.5E		41°13'.85S 174°29.6E		41°24'.85S 174°18.3E	
Before High Water	6	Directions of streams (degrees)	193	Rates at spring tides (knots) 0.3	192	1.7	212	0.2
	5		225	0.8	192	2.3	198	0.5
	4		232	1.3	192	2.3	195	0.5
	3		233	1.4	193	1.9	190	0.6
	2		243	1.3	193	1.3	170	0.4
	1		238	0.8	200	1.0	137	0.1
High Water	0		042	0.4	358	1.8	014	0.2
After High Water	+1		036	0.7	358	2.2	002	0.3
	+2		031	1.2	358	2.4	010	0.5
	+3		048	1.4	015	2.2	013	0.6
	+4		051	1.2	030	1.6	016	0.5
	+5		065	0.7	145	0.4	010	0.3
	+6		094	0.3	185	0.9	283	0.1

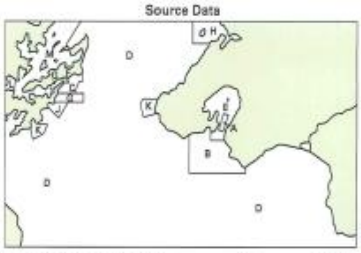
		41°26'.60S 174°28.0E		41°37'.55S 174°23.5E		41°23'.45S 174°44.5E		41°21'.40S 174°48.9E	
Before High Water	6	187	0.7	185	0.8	101	1.1	107	0.6
	5	210	1.1	185	1.4	084	1.5	095	0.7
	4	202	0.9	185	1.7	078	1.1	093	0.5
	3	196	0.7	181	1.7	045	0.2	057	0.3
	2	182	0.4	168	1.2	306	0.5	358	0.1
	1	006	0.5	138	0.4	232	0.8	284	0.3
High Water	0	008	0.8	341	0.6	282	1.0	272	0.5
After High Water	+1	008	1.1	343	1.5	278	1.3	266	0.6
	+2	010	1.2	345	1.8	269	1.2	265	0.5
	+3	356	1.0	347	1.8	276	0.9	278	0.4
	+4	020	0.6	338	1.3	236	0.5	343	0.1
	+5	137	0.3	332	0.4	169	0.6	086	0.3
	+6	177	0.6	160	0.6	123	1.1	110	0.5

		41°24'.65S 174°48.5E		41°22'.65S 174°50.9E		41°20'.45S 174°52.5E		41°39'.35S 175°07.6E	
Before High Water	6	136	1.2	142	0.7	271	0.1	265	0.2
	5	126	1.8	142	0.6	117	0.5	183	0.2
	4	119	2.3	142	0.4	122	1.4	142	0.3
	3	105	1.8	089	0.2	121	1.8	117	0.6
	2	082	0.8	341	0.2	114	1.4	098	0.6
	1	355	0.5	321	0.6	110	0.7	077	0.5
High Water	0	330	0.9	317	0.8	270	0.2	030	0.1
After High Water	+1	326	1.1	320	0.8	307	0.3	312	0.3
	+2	323	1.1	325	0.5	301	1.0	285	0.4
	+3	315	1.0	044	0.3	294	1.6	280	0.5
	+4	306	0.7	150	0.2	294	1.4	294	0.4
	+5	284	0.3	152	0.7	301	1.0	290	0.4
	+6	149	0.7	144	0.7	290	0.3	273	0.2

Tidal Levels referred to Datum of Soundings

Place	Lat S	Long E	Heights in metres above Datum MHWS	MHWN	MLWN	MLWS
Mana	41°06'	174°52'	1.7	1.2	0.9	0.4
Okukari Bay	41 12	174 19	1.4	1.1	0.7	0.4
Wellington	41 17	174 47	1.7	1.4	0.7	0.4
Cape Terawhiti	41 18	174 37	0.9	0.7	0.5	0.3
Port Underwood	41 20	174 06	1.5	1.1	0.6	0.3

Source Data

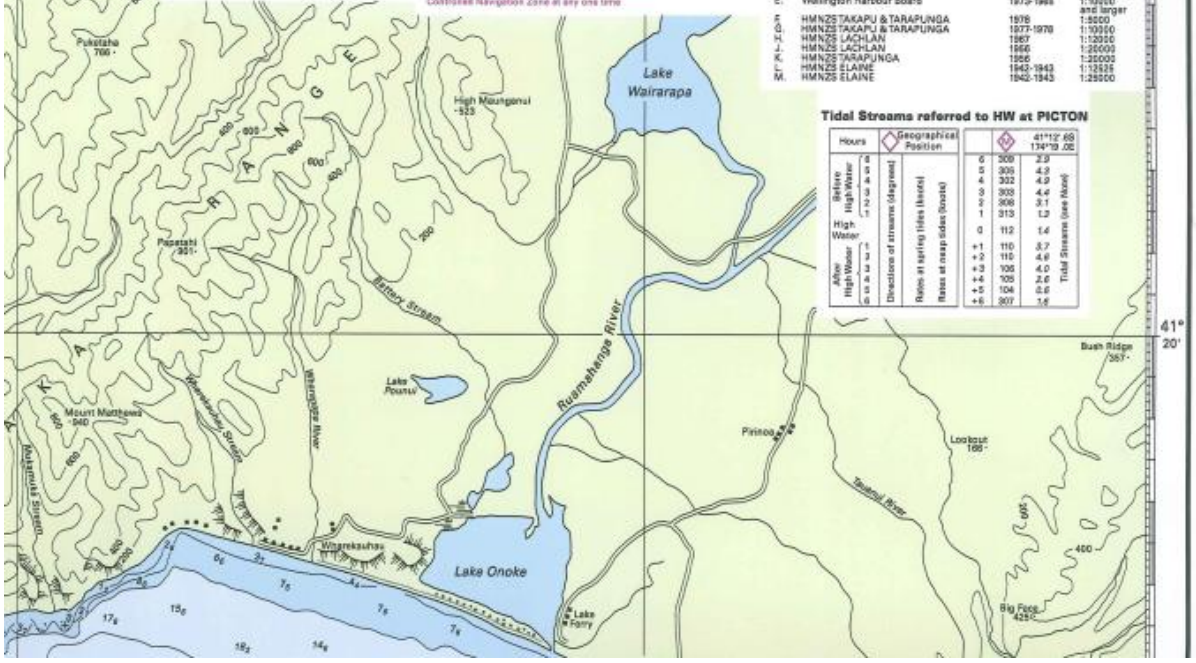


A.	Wellington Regional Council	1996	1:5000
B.	HMNZS TARAPUNGA & TAKAPU	1985	1:9000
C.	HMNZS MONOWAI	1984-1985	1:5000
D.	HMNZS MONOWAI	1983-1985	1:35000
E.	Wellington Harbour Board	1973-1985	1:10000 and larger
F.	HMNZS TAKAPU & TARAPUNGA	1978	1:5000
G.	HMNZS TAKAPU & TARAPUNGA	1977-1978	1:10000
H.	HMNZS LACHLAN	1967	1:12000
J.	HMNZS LACHLAN	1966	1:20000
K.	HMNZS TARAPUNGA	1956	1:25000
L.	HMNZS ELAINE	1943-1943	1:12525
M.	HMNZS ELAINE	1942-1943	1:25000

Tidal Streams referred to HW at PICTON

Hours	Geographical Position		41°12'.68 174°19.0E	
Before High Water	6	Directions of streams (degrees)	309	Rates at spring tides (knots) 2.9
	5		305	4.3
	4		302	4.9
	3		303	4.4
	2		308	3.1
	1		313	1.3
High Water	0		112	1.4
After High Water	+1		110	3.7
	+2		110	4.6
	+3		106	4.0
	+4		105	2.6
	+5		104	0.6
	+6		307	1.6

Tidal Streams (see Note)



NZ 4315

DEPTHS IN METRES

Toitu te whenua
Land Information
New Zealand

NEW ZEALAND

NORTH ISLAND – WEST COAST

APPROACHES TO ONEHUNGA

DEPTHS IN METRES
SCALE 1:18 000

Depths in metres (under thirty-one in metres and decimetres) reduced to Chart Datum which is approximately Lowest Astronomical Tide.
Heights in metres. Underlined figures are drying heights above Chart Datum; all other heights are above Mean High Water Springs.
Navigational Marks: IALA Maritime Buoyage System Region A (Red to Port).
Positions are on World Geodetic System 1984 (WGS84).
Projection: Universal Transverse Mercator Zone 60.
Sources: For information on the quality of the hydrography see the Source Data Diagram. Topography derived mainly from Land Information New Zealand data.

SATELLITE-DERIVED POSITIONS

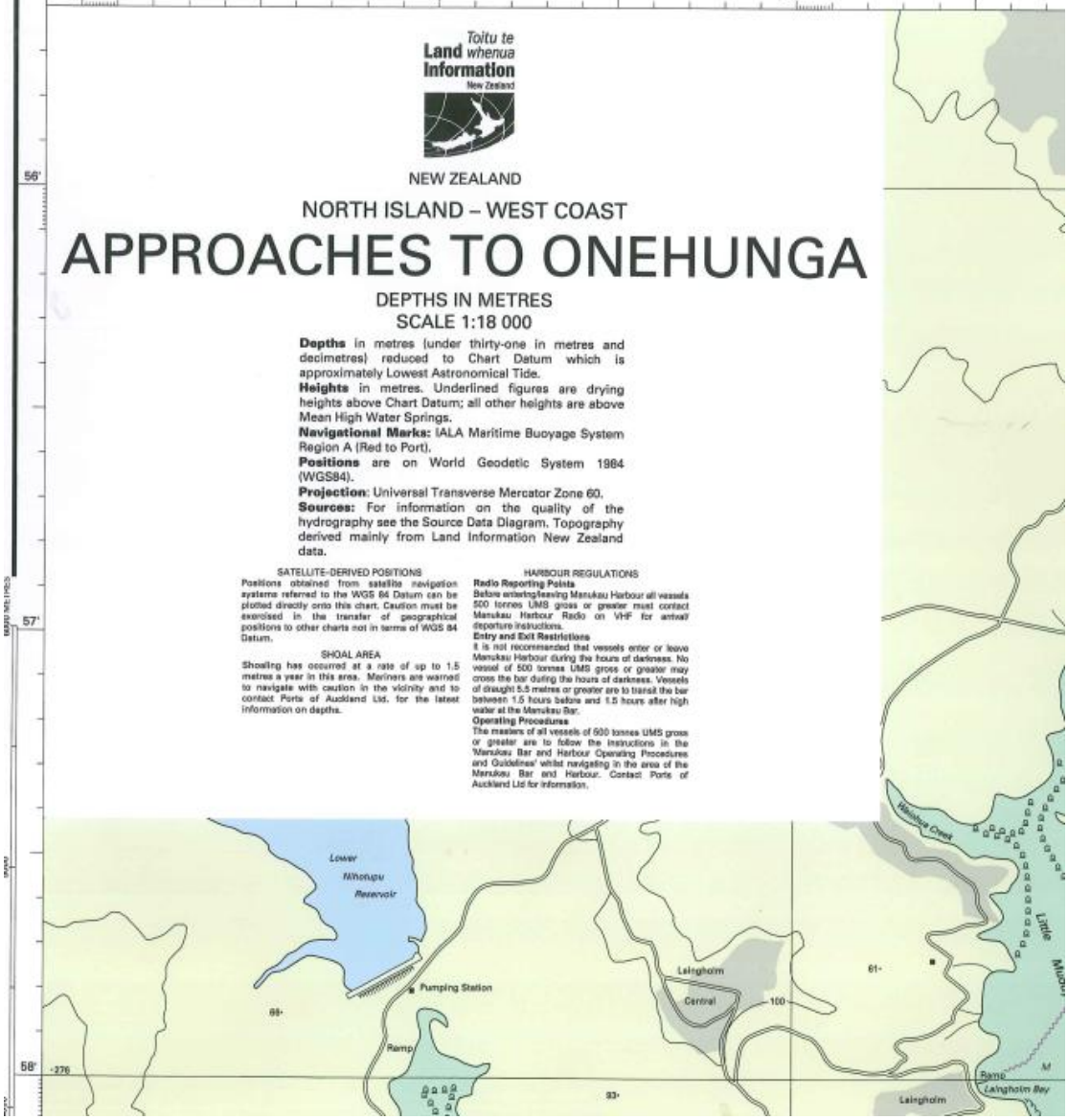
Positions obtained from satellite navigation systems referred to the WGS 84 Datum can be plotted directly onto this chart. Caution must be exercised in the transfer of geographical positions to other charts not in terms of WGS 84 Datum.

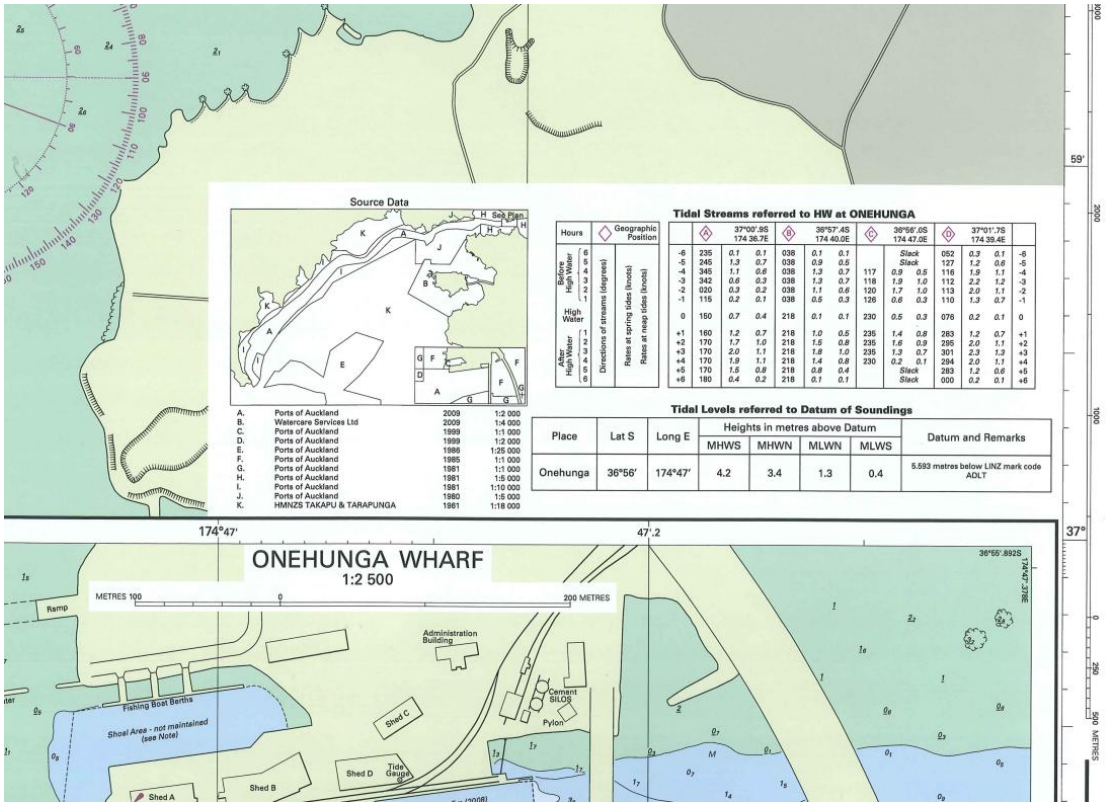
SHOAL AREA

Shoaling has occurred at a rate of up to 1.5 metres a year in this area. Mariners are warned to navigate with caution in the vicinity and to contact Ports of Auckland Ltd. for the latest information on depths.

HARBOUR REGULATIONS

Radio Reporting Points
Before entering/leaving Manukau Harbour all vessels 500 tonnes UMS gross or greater must contact Manukau Harbour Radio on VHF for arrival/departure instructions.
Entry and Exit Restrictions
It is not recommended that vessels enter or leave Manukau Harbour during the hours of darkness. No vessel of 500 tonnes UMS gross or greater may cross the bar during the hours of darkness. Vessels of draught 5.5 metres or greater are to transit the bar between 1.5 hours before and 1.5 hours after high water at the Manukau Bar.
Operating Procedures
The masters of all vessels of 500 tonnes UMS gross or greater are to follow the instructions in the 'Manukau Bar and Harbour Operating Procedures and Guidelines' whilst navigating in the area of the Manukau Bar and Harbour. Contact Ports of Auckland Ltd for information.





Source Data

A.	Ports of Auckland	2009	1:2 000
B.	Watercare Services Ltd	2009	1:4 000
C.	Ports of Auckland	1999	1:1 000
D.	Ports of Auckland	1999	1:2 000
E.	Ports of Auckland	1986	1:25 000
F.	Ports of Auckland	1985	1:1 000
G.	Ports of Auckland	1981	1:1 000
H.	Ports of Auckland	1981	1:5 000
I.	Ports of Auckland	1981	1:10 000
J.	Ports of Auckland	1980	1:5 000
K.	HMNZS TAKAPU & TARAPUNGA	1961	1:18 000

Tidal Streams referred to HW at ONEHUNGA

Hours		Geographic Position		A	37°02'.9S 174 36.7E		B	36°57.4S 174 40.0E		C	36°56'.0S 174 47.0E		D	37°01'.7S 174 39.4E	
Before High Water	-6	Directions of streams (degrees)	Rates at spring sides (knots) / Rates at neap sides (knots)	235	0.1	0.1	038	0.1	0.1		Slack		052	0.3	0.1	-6
	-5			245	1.3	0.7	038	0.9	0.5		Slack		127	1.2	0.6	-5
	-4			345	1.1	0.6	038	1.3	0.7	117	0.9	0.5	116	1.9	1.1	-4
	-3			342	0.6	0.3	038	1.3	0.7	118	1.9	1.0	112	2.2	1.2	-3
	-2			020	0.3	0.2	038	1.1	0.6	120	1.7	1.0	113	2.0	1.1	-2
	-1			115	0.2	0.1	038	0.5	0.3	126	0.6	0.3	110	1.3	0.7	-1
High Water	0			150	0.7	0.4	218	0.1	0.1	230	0.5	0.3	076	0.2	0.1	0
After High Water	+1			160	1.2	0.7	218	1.0	0.5	235	1.4	0.8	283	1.2	0.7	+1
	+2			170	1.7	1.0	218	1.5	0.8	235	1.6	0.9	295	2.0	1.1	+2
	+3			170	2.0	1.1	218	1.8	1.0	235	1.3	0.7	301	2.3	1.3	+3
	+4			170	1.9	1.1	218	1.4	0.8	230	0.2	0.1	294	2.0	1.1	+4
	+5			170	1.5	0.8	218	0.8	0.4		Slack		283	1.2	0.6	+5
	+6			180	0.4	0.2	218	0.1	0.1		Slack		000	0.2	0.1	+6

Tidal Levels referred to Datum of Soundings

Place	Lat S	Long E	Heights in metres above Datum				Datum and Remarks
			MHWS	MHWN	MLWN	MLWS	
Onehunga	36°56′	174°47′	4.2	3.4	1.3	0.4	5.593 metres below LINZ mark code ADLT

174°47'

47'.2

ONEHUNGA WHARF
1:2 500

METRES 100 0 200 METRES

36°55'.892S
174°47'.33E

Ramp
Administration Building
Fishing Boat Berths
Shoal Area - not maintained (see Note)
Shed C
Cement SILOS
Pylon
Shed D
Tide Gauge
Shed B
Shed A

59'

37°

1000 2000 1000 0 250 500 METRES