

# SURVEY REPORT

TEMPLATE (2010 v2)

REPORT HEADING	SURVEYOR'S COMMENT																								
<b>Plan Type &amp; No:</b>	SO 446319																								
<b>Lodging Surveyor:</b>	Antony David Phillip White																								
<b>Firm:</b>	Aurum Survey Consultants Ltd																								
<b>Surveyor's Reference:</b>	3052																								
<b>1 Survey Description:</b>	Sections 1 - 7																								
<b>2 Survey Purpose and Type</b>																									
a) Survey Purpose:	Legalisation survey																								
b) Dataset Type:	Survey																								
<b>3 Completeness of Information:</b>																									
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 30%;"><i>Document Type.</i></th> <th style="width: 10%;"><i>No. of pages</i></th> <th style="width: 60%;"><i>Add additional notes or descriptions against supporting document where this might assist other users</i></th> </tr> </thead> <tbody> <tr> <td>Dataset Profile Lodgement Form</td> <td style="text-align: center;">1</td> <td></td> </tr> <tr> <td>Field Notes:</td> <td style="text-align: center;">Nil</td> <td></td> </tr> <tr> <td>Calc Sheets/ Lot Closes:</td> <td style="text-align: center;">2</td> <td></td> </tr> <tr> <td>Area Schedule</td> <td style="text-align: center;">1</td> <td></td> </tr> <tr> <td>Occupation diagrams</td> <td style="text-align: center;">Nil</td> <td></td> </tr> <tr> <td>Other Certificates</td> <td style="text-align: center;">Nil</td> <td></td> </tr> <tr> <td>LINZ Dispensations:</td> <td style="text-align: center;">Nil</td> <td></td> </tr> </tbody> </table>	<i>Document Type.</i>	<i>No. of pages</i>	<i>Add additional notes or descriptions against supporting document where this might assist other users</i>	Dataset Profile Lodgement Form	1		Field Notes:	Nil		Calc Sheets/ Lot Closes:	2		Area Schedule	1		Occupation diagrams	Nil		Other Certificates	Nil		LINZ Dispensations:	Nil		
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<b>4 Accuracy Class of Boundaries:</b>	Class A, B, C & D																								
<b>5 Equipment and Methods Used:</b>	Field survey completed using conventional traverse methods using a Robotic Total Station: Trimble S8 sn 98010101, and also GPS observations (Trimble R8 s.no 4650125841)																								
<b>6 Datums and Orientation:</b>																									
a) Horizontal Datum: i) Orientation:	Mt Nicholas 2000																								
ii) Connection:	The orientation of bearings was confirmed by GPS observations on OIT I & III SO 428579 & OIT V DP 15778 all from plan SO 428579.																								

	b) Vertical Datum:	n/a
	c) Vertical Control to witness stratum boundary points	n/a
<b>7</b>	<b>Bearing and Scale Adjustments:</b>	
	a) Bearing	Bearing adjustments of $-0^{\circ}09'$ was applied to SO 13171 as deduced on SO 23638 and adjustments of $-0^{\circ}07'$ was applied to SO 1515, SO 6503, SO 6578 and SO 6588 as deduced on DP 22413.
	b) Scale	Nil.
<b>8</b>	<b>Old Survey Marks:</b>	
	a) Old marks - not relied on	OIT II SO 428579 was searched for and not found due to ground disturbance. All other marks searched for were found and reliable.
	b) Old marks - assessment of adequacy	OIT V DP 15778 & OIT I & III SO 428579 confirmed the definition at the southern end of the survey and OIT I SO 23638 confirmed definition at the northern end of the survey. These marks were part of the recent underlying SO 428579.
<b>9</b>	<b>Boundary Definition</b>	
	a) <b>Defined by survey</b>	All primary boundary marks linked to Section's 2 - 6 are defined by survey. All new boundaries are pegged (except UNMK 13 not pegged via rule 7.1(a)(i)) all adoptions are from recent survey plans which produced good calculated closes supported by the old marks found. Section 1 was recalculated between 1 SO 6551 and Peg 6 due to a 0.07m misclose in the underlying plan, the recalculation allowed all Section 1's boundaries to be defined by survey.
	b) <b>Defined by adoption</b>	All of Section 7's boundaries are defined by adoptions except common boundaries listed above in defined by survey and the boundaries listed below as accepted.
	c) <b>Accepted boundaries</b>	Section 7's western boundary was accepted between SO 6582 & SO 6583 due to no bearing & distance being found. The three boundaries in the SE area of Section 7 between XIIIb SO 6407 - (1) SO 1515 - (2) SO 1515 - (2) SO 6503 have been accepted due to no distances being able to be deduced.
	d) <b>Permanent structure boundaries</b>	Nil.
	e) <b>Stratum boundaries</b>	Nil.
	f) <b>Irregular boundaries</b>	
	g) <b>Water boundaries</b>	
<b>10</b>	<b>Monumentation:</b>	

a) Impracticable to mark	UNMK SO 24109 at the northern end of section 3 has not been pegged due to its position falling half way down a very steep rock face approximately 40m high.
b) Exemption reasons from marking a boundary point	UNMK 13 at the southern end of section 6 was not marked due to thick vegetation impeding direct line of sight, under rule 7.1(a)(1) it is exempt from being pegged.
<b>11 Occupation:</b>	No occupation on new boundaries.
<b>12 Parcel Areas:</b>	All parcels close with acceptable tolerances, please see calculation sheet attached.
<b>13 Pre-Validation Reporting:</b> <ul style="list-style-type: none"> <li>• <b>Accuracy reports, and</b></li> <li>• <b>Landonline auto business rules</b></li> </ul>	<p>Internal Consistency Adjustment Standard error of unit weight: 0.18</p> <p>Network Adjustment (Partial SDC) Standard error of unit weight: 1.19</p> <p>C41E – Overlaps are anticipated.</p> <p>C41K – Balance road parcel boundary lines and accepted boundaries do not have bearing and distances shown. All other boundary lines have been included in the new primary network and there distances and bearings have been checked against the underlying plan.</p> <p>P002–008 – Labels appear in one or more diagrams. System generated survey and non-primary diagrams are not required.</p> <p>C029 – The mark references have unique identifiers added, or have been corrected where names are considered incorrect in Landonline.</p> <p>C060 &amp; 61 – Parcel areas have been checked and found to be correct in this survey.</p> <p>C491 – The existing parcels in the CSD are linked to the titles in the comprised in list.</p> <p>C030 – the position is unmarked via rule 7.1(a)(1)</p> <p>C445 – These have been checked and found correct in this survey.</p> <p>C483 – These have been checked and found correct in this survey.</p> <p>C500 – Geodetic mark codes have been checked and found correct in this survey.</p> <p>The failed observations in rule 3.7 and 3.1(b) in the network adjustment summary occurred when the witness mark IT IV DP 15778 was linked in L.O.L. As the observation and adoptions of our survey are within regulations we believe this error can only be a product of the minor inconsistencies with the L.O.L capture.</p>

	The failed observations under rule 3.7, 3.6 and 7.3.2a between unmarked boundary position SO 24109 and witness marks IT I SO 446319 only occurred when the unmarked SO 24109 was linked in L.O.L. As the observation and adoptions of our survey are within regulations we believe this error can only be a product of the minor inconsistencies with the L.O.L capture.
<b>14 Non-primary Parcels:</b>	
a) Easements	
i) confirm all existing easements to be retained	n/a
ii) new	n/a
iii) confirm all existing easements to be extinguished	n/a
b) Covenants	n/a
i) existing	
ii) new	
iii) to be surrendered	
c) Movable Marginal Strips	n/a
d) Other	n/a
<b>15 Additional Information and Legal:</b>	
a) Prior Correspondence	Nil.
b) Notifications from the MLC	Nil.
c) Other	Nil.
<b>16 Survey System Maintenance:</b>	
• <b>Anomalies</b>	
• <b>Landonline discrepancies:</b>	
• <b>Physical survey network:</b>	
<b>17 Additional Notes:</b>	Nil.