

5.6.0.4, Nov 2019

Laboratory Boya

Description:Barcode Staff Calibration Range

Authority: Landgate

Location: Victor Road, Darlington

Audit Test: Test 57:Boya

Date: 12/01/2021

Confidence Level: 95%

Comments:Barcode Staff Calibration Range

Audit Staff: 26296

Audit Level:Leica-LS15-702272

Interval	Height Diff (metres)	Uncertainty (mm)	Observation Count	
1-2	0.09095	0.03	1	
2-3	0.16395	0.03	1	
3-4	0.14615	0.03	1	
4-5	0.21304	0.03	1	
5-6	0.18604	0.03	1	
6-7	0.19979	0.03	1	
7-8	0.20504	0.02	2	
8-9	0.24690	0.02	2	
9-10	0.26767	0.02	2	
10-11	0.33305	0.02	2	
11-12	0.26392	0.02	2	
12-13	0.12586	0.02	2	
13-14	0.12982	0.02	2	
14-15	0.22848	0.02	2	
15-16	0.18248	0.03	1	
16-17	0.15189	0.03	1	
17-18	0.15328	0.03	1	
18-19	0.15711	0.03	1	
19-20	0.14877	0.03	1	
20-21	0.20973	0.03	1	



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Height			
100. 00000			
99. 90905			
99. 74510			
99. 59895			
99. 38590			
99. 19986			
99. 00007			
98. 79503			
98. 54813			
98. 28046			
97. 94741			
97. 68349			
97. 55763			
97. 42781			
97. 19934			
97. 01685			
96. 86496			
96. 71168			
96. 55457			
96. 40580			
96. 19606			



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_Interval	Adjusted Height Diff (metres)	Observed Height Diff (metres)	Residual (metres)	Std Deviation Observation (mm)	Std Deviation Residual (mm)	Std Residual
1-2	0. 09095	0. 09095	0. 00000	0. 01	0.00	0. 0
2-3	0. 16395	0. 16395	0. 00000	0. 01	0. 00	0. 0
3-4	0. 14615	0. 14615	0. 00000	0. 01	0.00	0. 0
4-5	0. 21304	0. 21304	0. 00000	0. 01	0. 00	0. 0
5-6	0. 18604	0. 18604	0. 00000	0. 01	0.00	0. 0
6-7	0. 19979	0. 19979	0. 00000	0. 01	0. 00	0. 0
7-8	0. 20504	0. 20504	0. 00000	0. 01	0. 01	0. 3
7-8	0. 20504	0. 20505	- 0. 00001	0. 03	0. 03	- 0. 3
8-9	0. 24690	0. 24691	- 0. 00002	0. 01	0. 01	- 2. 2
8-9	0. 24690	0. 24685	0. 00004	0. 02	0. 02	2. 2
9- 10	0. 26767	0. 26763	0. 00004	0. 01	0. 01	3. 5
9- 10	0. 26767	0. 26770	- 0. 00004	0. 01	0. 01	- 3. 5
10-11	0. 33305	0. 33308	- 0. 00003	0. 01	0. 01	- 3. 0
10-11	0. 33305	0. 33302	0. 00003	0. 01	0. 01	3. 0
11-12	0. 26392	0. 26391	0. 00001	0. 01	0. 01	0.8
11-12	0. 26392	0. 26393	- 0. 00001	0. 02	0. 02	- 0. 8
12-13	0. 12586	0. 12585	0. 00001	0. 01	0. 01	1. 1
12-13	0. 12586	0. 12588	- 0. 00002	0. 02	0. 02	- 1. 1
13-14	0. 12982	0. 12982	0. 00000	0. 01	0. 01	- 0. 4
13-14	0. 12982	0. 12981	0. 00001	0. 02	0. 02	0. 4
14- 15	0. 22848	0. 22850	- 0. 00002	0. 01	0. 01	- 3. 0
14- 15	0. 22848	0. 22842	0. 00006	0. 02	0. 02	3. 0
15-16	0. 18248	0. 18248	0. 00000	0. 01	0.00	0. 0
16- 17	0. 15189	0. 15189	0. 00000	0. 01	0.00	0. 0
17- 18	0. 15328	0. 15328	0. 00000	0. 01	0.00	0. 0
18- 19	0. 15711	0. 15711	0. 00000	0. 01	0. 00	0. 0



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	Adjusted Height Diff	Observed Height Diff	Residual	Std Deviation Observation	Std Deviation Residual	Std
Interval	(metres)	(metres)	(metres)	(mm)	(mm)	Residual
19- 20	0. 14877	0. 14877	0. 00000	0. 01	0. 00	0. 0
20-21	0. 20973	0. 20973	0. 00000	0. 01	0.00	0. 0



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Laboratory Boya Authority: Landgate

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Comparison between Staff Calibration Range Audits

	Test 57:Boya	Test 56:Boya	Test 55:Boya	Test 54:Boya	Test 53:Boya	Test 52:Boya	Test 51:Boya	Test 50:Boya
Pins	12/01/2021	17/11/2020	17/09/2020	19/08/2020	13/07/2020	1/07/2020	15/06/2020	8/06/2020
1-2	0. 09095	0. 09093	0. 09081	0. 09079	0. 09087	0. 09089	0. 09082	0. 09072
2-3	0. 16395	0. 16400	0. 16401	0. 16406	0. 16403	0. 16403	0. 16402	0. 16405
3-4	0. 14615	0. 14618	0. 14617	0. 14607	0. 14614	0. 14616	0. 14617	0. 14617
4-5	0. 21304	0. 21298	0. 21303	0. 21310	0. 21303	0. 21303	0. 21297	0. 21302
5-6	0. 18604	0. 18609	0. 18606	0. 18606	0. 18609	0. 18600	0. 18608	0. 18606
6-7	0. 19979	0. 19971	0. 19973	0. 19969	0. 19969	0. 19972	0. 19974	0. 19977
7-8	0. 20504	0. 20499	0. 20499	0. 20496	0. 20501	0. 20498	0. 20499	0. 20492
8-9	0. 24690	0. 24692	0. 24687	0. 24682	0. 24689	0. 24686	0. 24687	0. 24692
9- 10	0. 26767	0. 26760	0. 26762	0. 26765	0. 26761	0. 26764	0. 26761	0. 26765
10- 11	0. 33305	0. 33312	0. 33305	0. 33301	0. 33307	0. 33308	0. 33309	0. 33305
11-12	0. 26392	0. 26385	0. 26385	0. 26389	0. 26383	0. 26381	0. 26382	0. 26382
12-13	0. 12586	0. 12587	0. 12587	0. 12588	0. 12587	0. 12587	0. 12590	0. 12587
13- 14	0. 12982	0. 12978	0. 12978	0. 12970	0. 12976	0. 12977	0. 12975	0. 12968
14- 15	0. 22848	0. 22846	0. 22844	0. 22844	0. 22841	0. 22839	0. 22843	0. 22853
15- 16	0. 18248	0. 18240	0. 18240	0. 18237	0. 18238	0. 18237	0. 18239	0. 18234
16- 17	0. 15189	0. 15187	0. 15185	0. 15184	0. 15186	0. 15181	0. 15183	0. 15187
17- 18	0. 15328	0. 15327	0. 15323	0. 15325	0. 15321	0. 15322	0. 15320	0. 15317
18- 19	0. 15711	0. 15711	0. 15712	0. 15706	0. 15709	0. 15708	0. 15713	0. 15712
19- 20	0. 14877	0. 14867	0. 14860	0. 14860	0. 14862	0. 14862	0. 14863	0. 14865
20-21	0. 20973	0. 20965	0. 20963	0. 20961	0. 20955	0. 20960	0. 20958	0. 20956



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Comparison between Staff Calibration Range Audits

Merge 8:BoyaMerge 7:BoyaMerge 6:BoyaMerge 5:BoyaMerge 4:BoyaMerge 3:BoyaMerge 2:BoyaMerge 1:Boya								
Pins	13/11/2017	20/02/2015	6/06/2013	21/02/2011	28/01/2009	25/07/2007	26/06/2002	21/04/2002
1-2	0. 09083	0. 09086	0. 09086	0. 09088	0. 09092	0. 09088	0. 09082	0. 09100
2-3	0. 16399	0. 16404	0. 16404	0. 16398	0. 16400	0. 16403	0. 16407	0. 16402
3-4	0. 14587	0. 14579	0. 14601	0. 14609	0. 14599	0. 14600	0. 14599	0. 14587
4-5	0. 21322	0. 21327	0. 21309	0. 21311	0. 21337	0. 21332	0. 21332	0. 21358
5-6	0. 18616	0. 18623	0. 18612	0. 18607	0. 18596	0. 18590	0. 18589	0. 18584
6-7	0. 19971	0. 19974	0. 19971	0. 19973	0. 19978	0. 19969	0. 19971	0. 19976
7-8	0. 20496	0. 20496	0. 20500	0. 20504	0. 20503	0. 20501	0. 20499	0. 20501
8-9	0. 24689	0. 24695	0. 24694	0. 24690	0. 24689	0. 24686	0. 24686	0. 24689
9- 10	0. 26759	0. 26765	0. 26759	0. 26763	0. 26760	0. 26721	0. 26721	0. 26721
10- 11	0. 33308	0. 33305	0. 33308	0. 33313	0. 33310	0. 33344	0. 33347	0. 33353
11-12	0. 26380	0. 26384	0. 26384	0. 26382	0. 26386	0. 26381	0. 26384	0. 26387
12-13	0. 12569	0. 12550	0. 12543	0. 12546	0. 12535	0. 12530	0. 12502	0. 12500
13- 14	0. 12948	0. 12969	0. 12965	0. 12969	0. 12976	0. 12978	0. 13003	0. 13009
14- 15	0. 22898	0. 22912	0. 22900	0. 22903	0. 22897	0. 22889	0. 22894	0. 22904
15- 16	0. 18224	0. 18215	0. 18223	0. 18220	0. 18235	0. 18229	0. 18220	0. 18196
16- 17	0. 15197	0. 15207	0. 15193	0. 15204	0. 15205	0. 15199	0. 15208	0. 15237
17- 18	0. 15231	0. 15239	0. 15230	0. 15236	0. 15238	0. 15230	0. 15228	0. 15235
18- 19	0. 15809	0. 15812	0. 15811	0. 15807	0. 15817	0. 15807	0. 15806	0. 15814
19- 20	0. 14868	0. 14868	0. 14863	0. 14880	0. 14869	0. 14863	0. 14865	0. 14867
20-21	0. 20963	0. 20968	0. 20958	0. 20967	0. 20967	0. 20955	0. 20956	0. 20971