

April 28, 2015

Field Survey Report of
LiDAR Ground Control & QC Points

TO# 48 – Eastern Vermont LiDAR
USGS Contract: G10PC00026
USGS Task Order: G14PD00971
Photo Science Project No. 22399



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Presented by



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PROJECT PROCEDURE SUMMARY

Project Description

Photo Science, a Quantum Spatial company, was contracted by U.S. Geological Survey (USGS) under task order number G14PD00971 to field survey LiDAR calibration control points and quality control points in support of TO# 48 – Eastern Vermont LiDAR. There are 71 calibration points, 25 non vegetated bare earth check points, and 60 vegetated check points divided as 40 forested and 20 tall weeds based on land cover analysis. Each class is dispersed through the project, totalling 156 points.

Field Procedure

Field work began on October 24th, 2014 and came to a temporary stop on December 3rd, 2014 due to weather restrictions. The remainder of the field work was completed from March 24th, 2015 to April 19th, 2015. A static GPS survey was performed using 3 Trimble R8-Model 3, and 1 Trimble R8-Model 4 GNSS receiver. Each point was set on a flat surface at least five meters away from any significant elevation change and occupied for a minimum of 20 minutes. Each point also shares common time with at least one other control point within the project AOI. For any of the QC points that were unable to be collected with GPS were located conventionally with a Trimble M3 2" total station utilizing points previously set with GPS. Data sheets for each point were filled out with information including point type, general location, occupation time, equipment used, and photographs. Final coordinates, point ties, and RMSE values were filled in after the post processed network adjustment.

Office Procedure

The network was constrained to the NGS CORS network in a weighted least squares adjustment using Trimble Business Center Software.

Reporting Procedure

The North American Datum of 1983 (NAD83 (2011)), SPCS Vermont projection was referenced for reporting the horizontal coordinates in meters. The vertical elevations are referenced to the North American Vertical Datum of 1988 (NAVD 88) utilizing the GEOID12A model and are reported in meters.

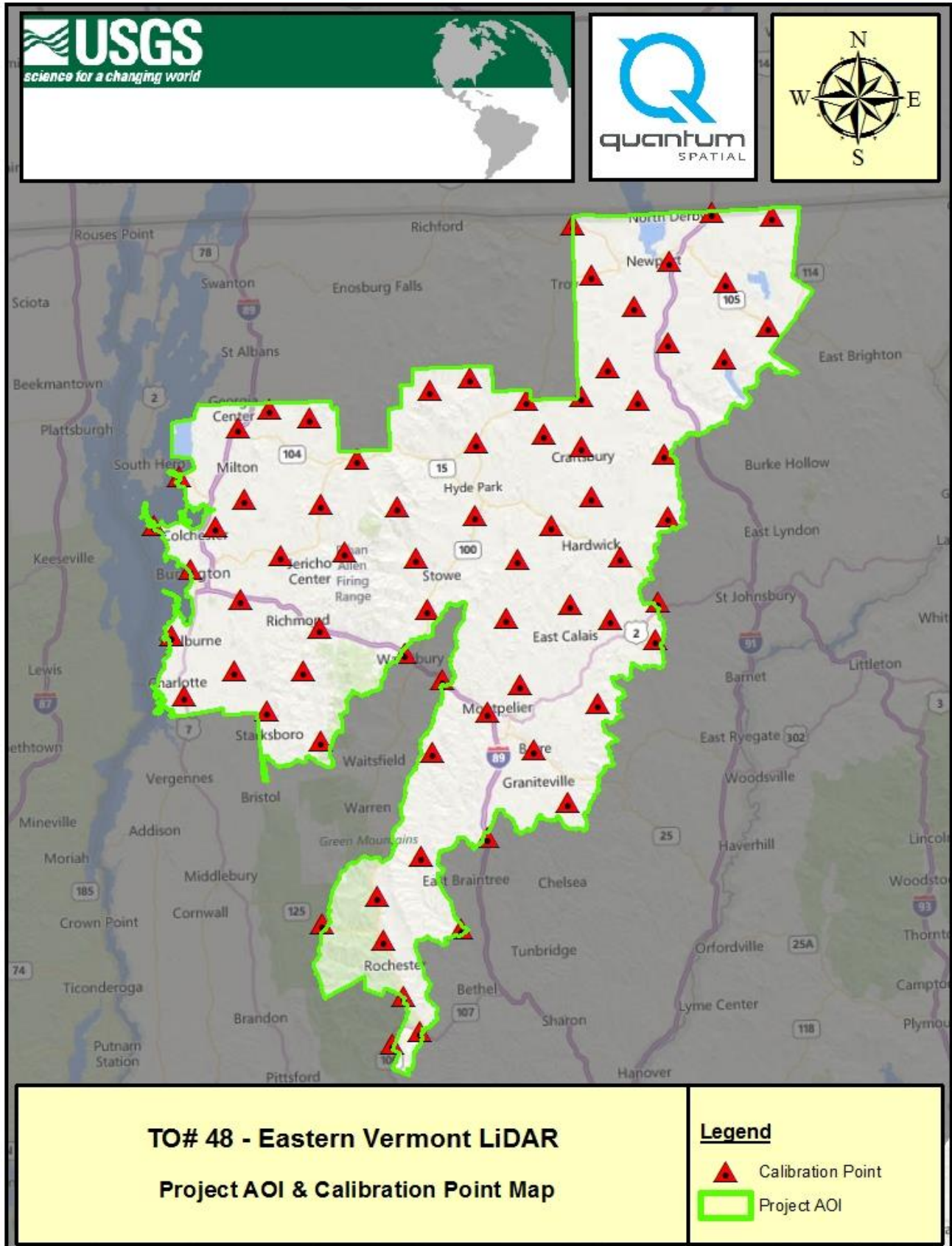
The Horizontal RMSE at the 95% confidence level is 0.006 meter.

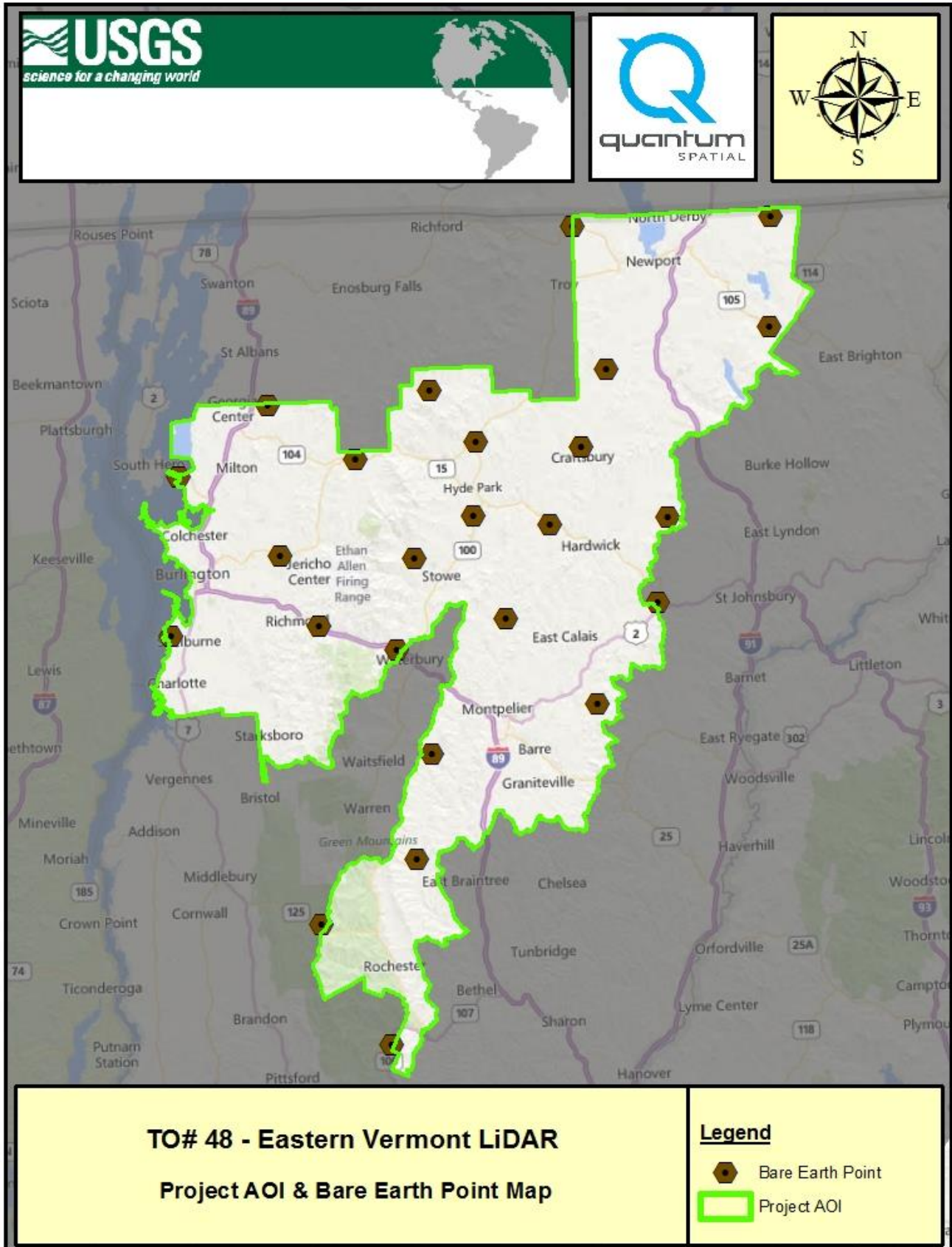
The Elevation RMSE at the 95% confidence level is 0.011 meter.

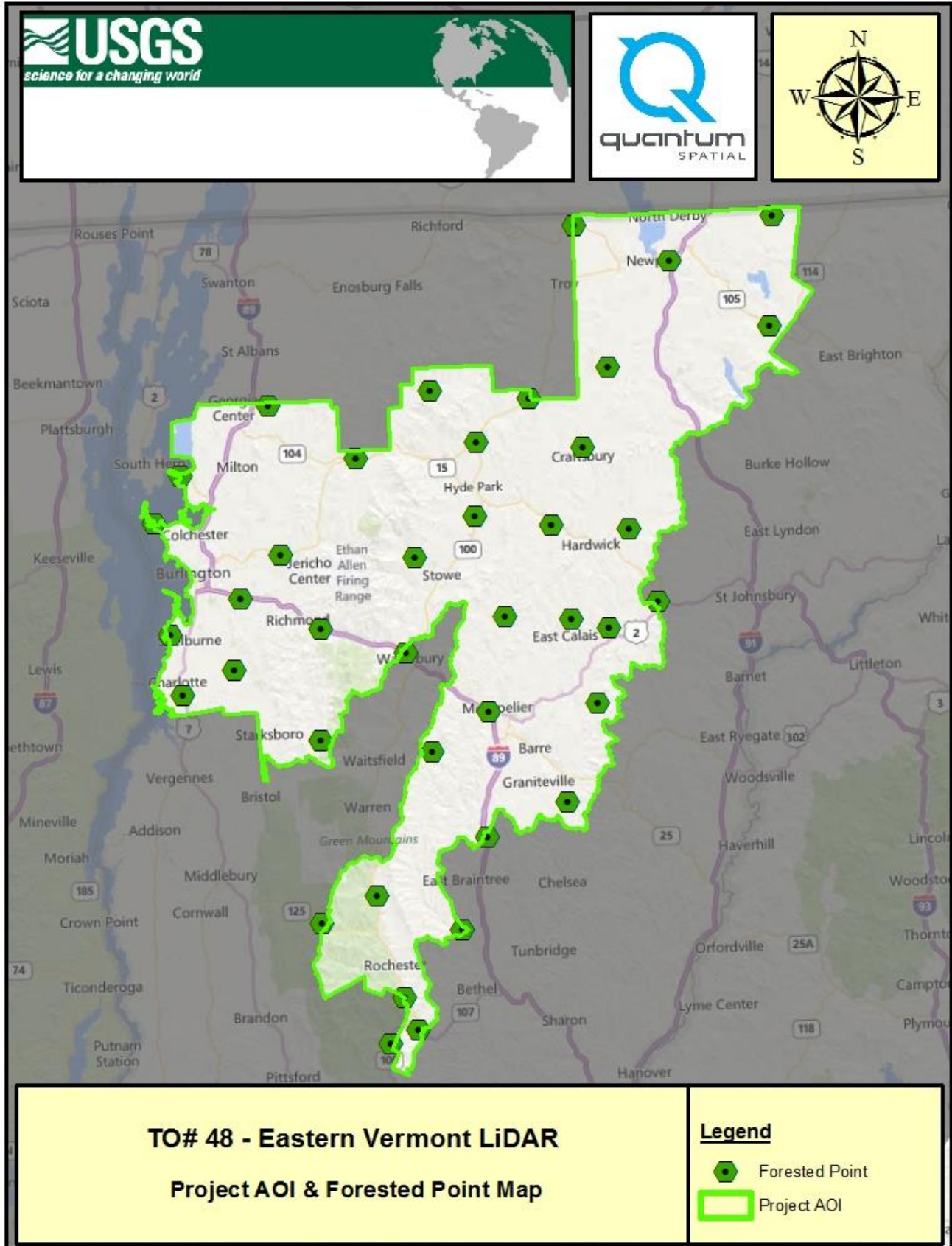
The 3-Dimensional RMSE at the 95% confidence level is 0.013 meter.

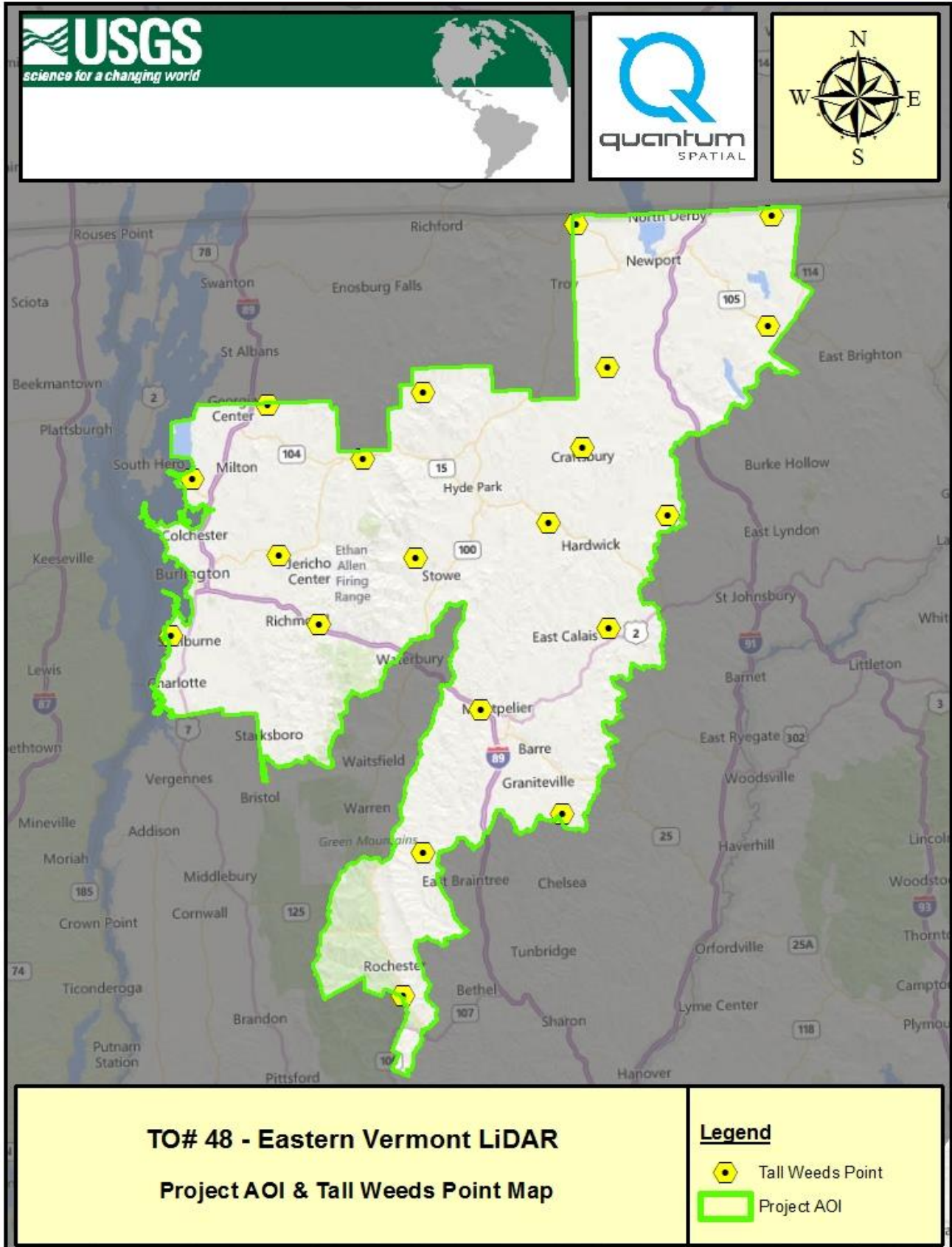


PROJECT AOI & POINT MAPS











FINAL POINT COORDINATES



CALIBRATION POINT COORDINATES

Horizontal Datum - NAD83(2011)
SPCS Vermont (4400)
Vertical Datum - NAVD 88
Geoid - GEOID12A
Units – Meters

POINT_ID	Northing	Easting	Elevation
LC01	160162.038	462983.881	557.100
LC02	147436.458	476528.834	238.886
LC03	139451.242	474287.690	269.565
LC04	141490.290	478919.309	227.782
LC05	157016.086	473320.313	265.478
LC06	164544.425	472483.458	299.163
LC07	158484.089	486620.737	201.203
LC08	171163.338	480179.017	267.345
LC09	173912.827	491422.464	491.203
LC10	179445.934	505204.725	395.560
LC11	188532.369	499666.259	183.423
LC12	188655.728	482606.979	427.543
LC13	195003.269	492061.949	168.168
LC14	200902.547	484661.143	165.790
LC15	199531.706	497653.983	371.715
LC16	196045.162	510774.536	427.335
LC17	206546.592	520803.179	579.064
LC18	210007.610	513374.556	285.293
LC19	212826.320	521366.455	499.813
LC20	212737.935	506570.755	308.473
LC21	210895.519	495767.737	244.941
LC22	212734.170	482369.398	277.378
LC23	205501.339	478389.561	138.104
LC24	210036.650	464175.381	98.667
LC25	202954.247	461182.193	188.883
LC26	191042.581	463862.395	451.956
LC27	196347.626	454726.853	121.301
LC28	203276.810	449579.893	109.383
LC29	199341.407	440879.352	69.378
LC30	209596.935	439193.183	72.866
LC31	215441.991	450982.228	143.294



LC32	220726.527	442637.588	63.308
LC33	228405.545	436714.847	36.549
LC34	227709.884	447171.795	51.633
LC35	222567.165	458014.966	153.390
LC36	222850.310	468729.372	269.508
LC37	221532.115	480714.135	264.330
LC38	220813.876	498044.895	388.802
LC39	220633.000	515309.368	330.738
LC40	227146.511	523658.688	529.231
LC41	230841.917	510679.864	269.461
LC42	226353.865	503770.976	245.782
LC43	228296.762	490909.424	201.593
LC44	230283.866	477890.642	480.281
LC45	231126.553	464918.274	226.394
LC46	232387.652	452021.404	141.353
LC47	236455.888	441262.879	30.925
LC48	244316.749	451490.294	117.536
LC49	247512.074	456828.041	177.021
LC50	245784.750	463485.265	224.252
LC51	238463.593	471394.102	140.119
LC52	249691.851	484015.309	260.619
LC53	251653.985	490829.829	349.428
LC54	240680.033	491568.870	261.450
LC55	247641.743	500327.764	379.987
LC56	241679.205	503123.954	492.847
LC57	239346.310	509271.008	379.450
LC58	237851.560	523278.555	381.545
LC59	246904.667	519176.393	474.591
LC60	247907.277	509543.513	291.745
LC61	252618.964	514157.738	270.213
LC62	256474.095	524455.263	230.591
LC63	253556.025	533929.461	361.715
LC64	258776.299	541573.318	355.530
LC65	266496.917	534426.147	304.490
LC66	277306.773	542615.129	421.623
LC67	278368.695	532629.598	347.909
LC68	270306.425	525106.446	275.823
LC69	262971.801	518838.833	212.264
LC70	268324.294	511955.634	279.712
LC71	276874.655	509064.014	183.791



BARE EARTH POINT COORDINATES

Horizontal Datum - NAD83(2011)
SPCS Vermont (4400)
Vertical Datum - NAVD 88
Geoid - GEOID12A
Units – Meters

POINT_ID	Northing	Easting	Elevation
BE01	160106.070	463014.605	557.367
BE02	139503.024	474210.773	274.987
BE03	170566.636	479506.291	265.639
BE04	188449.507	482573.480	435.773
BE05	195936.344	510728.284	436.162
BE06	212745.603	521451.919	494.251
BE07	206178.949	477129.464	137.147
BE08	210595.113	464130.385	97.081
BE09	209566.249	439099.124	68.491
BE10	222653.431	457975.193	153.757
BE11	221549.400	480650.642	264.115
BE12	227227.244	523632.398	532.852
BE13	226416.106	503701.988	245.836
BE14	228351.373	490765.708	198.426
BE15	236432.616	441315.919	30.802
BE16	247955.020	456613.377	188.258
BE17	238481.738	471196.313	146.514
BE18	249794.514	484068.985	257.966
BE19	240743.949	491601.970	263.025
BE20	239346.004	509239.711	378.996
BE21	210944.363	495652.864	247.864
BE22	252493.949	514041.099	263.292
BE23	276828.383	509092.056	185.343
BE24	258742.640	541605.819	354.074
BE25	277352.581	542575.726	419.004



FORESTED POINT COORDINATES

Horizontal Datum - NAD83(2011)
SPCS Vermont (4400)
Vertical Datum - NAVD 88
Geoid - GEOID12A
Units – Meters

POINT_ID	Northing	Easting	Elevation
FO01	139524.638	474141.576	282.369
FO02	141648.566	478884.825	240.231
FO03	147152.492	476710.991	261.021
FO04	160116.383	463049.624	559.027
FO05	164524.568	472518.497	299.620
FO06	158457.159	486646.872	199.055
FO07	179428.861	505141.627	391.312
FO08	195006.054	492315.359	158.933
FO09	188559.181	482578.486	430.640
FO10	205443.668	478571.774	135.750
FO11	195960.107	510718.618	434.891
FO12	210342.336	506754.866	286.919
FO13	210992.407	495573.356	248.294
FO14	221484.369	480598.797	262.003
FO15	209913.799	464396.991	95.544
FO16	199393.716	440743.199	79.065
FO17	209504.113	439019.800	63.675
FO18	222663.480	458006.937	153.092
FO19	236464.745	441335.325	29.400
FO20	228503.617	436686.962	34.982
FO21	247941.264	456602.869	186.168
FO22	249627.735	483973.481	265.128
FO23	238444.753	471186.207	146.842
FO24	240655.840	491583.119	258.751
FO25	228201.212	490961.607	209.990
FO26	226325.787	503790.538	245.002
FO27	225244.754	516864.478	352.336
FO28	239177.169	509544.121	371.347
FO29	252647.181	514136.044	268.591
FO30	258737.978	541660.046	352.534
FO31	277397.934	542586.069	415.085
FO32	276764.513	509096.593	176.233



FO33	270234.972	525189.641	275.462
FO34	247760.108	500623.475	379.972
FO35	191078.861	463834.978	456.107
FO36	203338.364	449575.222	106.754
FO37	215442.518	450929.941	144.279
FO38	173887.319	491466.003	490.971
FO39	208583.776	513007.493	275.563
FO40	212710.429	521437.859	496.365



TALL WEEDS POINT COORDINATES

Horizontal Datum - NAD83(2011)
SPCS Vermont (4400)
Vertical Datum - NAVD 88
Geoid - GEOID12A
Units – Meters

POINT_ID	Northing	Easting	Elevation
TW01	147632.684	476469.094	239.205
TW02	171724.027	480538.508	274.292
TW03	195481.582	491019.408	155.235
TW04	210672.531	464184.089	97.031
TW05	209546.263	439194.558	72.797
TW06	222654.250	457811.614	153.639
TW07	221464.779	480820.105	262.879
TW08	208590.723	513141.430	270.294
TW09	227284.427	523671.592	533.086
TW10	226759.969	503398.050	210.176
TW11	238434.518	472459.359	135.821
TW12	236034.576	443490.500	35.537
TW13	247970.916	456695.585	190.999
TW14	249461.380	483003.619	240.673
TW15	239166.444	509509.012	371.874
TW16	252620.712	514123.737	267.934
TW17	276846.949	509597.076	197.400
TW18	258757.023	541525.149	351.968
TW19	277350.052	542598.955	417.825
TW20	177546.540	504315.691	465.851



CALIBRATION POINT DATA SHEETS



Point ID	LC01
Project No.	22399
Project Name	Eastern VT LiDAR
State	Vermont
County	ADDISON
Quad	BREADLOAF

Aerial Target	
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
	NAD83(2011)
	SPCS - Vermont (4400)
	NAVD88
	GEOID12A
	Meters

Northing	Easting	Elevation
160162.038	462983.881	557.100

Operator	SAM
Receiver Model	TRIMBLE R8 - MODEL 3
Receiver S/N	5135472526
Antenna Height	2.000 Meters

Static Session	25260860
Date	27 MAR 2015
Start Time (UTC)	1358
End Time (UTC)	1510

Point Ties: BE01 - LC07 - NYET - NYPB - VCAP - VTC1 - VTD7 - VTD9 –
VTHA - VTIP - VTOX - VTRU - VTSA - VTSP - VTUV

RMSE Hz: 0.007
RMSE Z: 0.016

PHOTOS:





Point ID	LC02
Project No.	22399
Project Name	Eastern VT LiDAR
State	Vermont
County	Windsor
Quad	Rochester

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
NAD83(2011)	
SPCS - Vermont (4400)	
NAVD88	
GEOID12A	
Meters	

Northing	Easting	Elevation
147436.458	476528.834	238.886

Operator	Zeke Ingram
Receiver Model	TRIMBLE R8 - MODEL 3
Receiver S/N	5133470976
Antenna Height	2.000 Meters

Static Session	09763021
Date	10-29-2014
Start Time (UTC)	11:32
End Time (UTC)	14:20

Point Ties: BE14 – LC36 – LC37 – LC43 – NYET – NYIL – NYPB – TW07 – VCAP – VTC1 – VTD7
VTD9 – VTEB – VTHA – VTIP – VTOX – VTRU – VTSA - VTUV

RMSE Hz: 0.006
RMSE Z: 0.015

PHOTOS:





Point ID	LC03
Project No.	22399
Project Name	Eastern VT LiDAR
State	Vermont
County	Rutland
Quad	Rochester

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
NAD83(2011)	
SPCS - Vermont (4400)	
NAVD88	
GEOID12A	
Meters	

Northing	Easting	Elevation
139451.242	474287.690	269.565

Operator	Kevin Chapman
Receiver Model	Trimble R8 Model 4
Receiver S/N	5329440824
Antenna Height	2.000 Meters

Static Session	08242970
Date	10-24-2014
Start Time (UTC)	17:42
End Time (UTC)	18:43

Point Ties: BE14 – LC36 – LC37 – LC43 – NYET – NYIL – NYPB – TW07 – VCAP – VTC1 – VTD7
VTD9 – VTEB – VTHA – VTIP – VTOX – VTRU – VTSA - VTUV

RMSE Hz: 0.006
RMSE Z: 0.015

PHOTOS:





Point ID	LC04
Project No.	22399
Project Name	Eastern VT LiDAR
State	Vermont
County	Windsor
Quad	Rochester

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
NAD83(2011)	
SPCS - Vermont (4400)	
NAVD88	
GEOID12A	
Meters	

Northing	Easting	Elevation
141490.290	478919.309	227.782

Operator	Kevin Chapman
Receiver Model	Trimble R8 Model 3
Receiver S/N	5106461066 / 5133470976
Antenna Height	2.000 Meters

Static Session	10662970 / 09763020
Date	10-24-2014 / 10-29-2014
Start Time (UTC)	18:03 / 14:07
End Time (UTC)	18:34 / 15:15

Point Ties: BE14 – LC36 – LC37 – LC43 – NYET – NYIL – NYPB – TW07 – VCAP – VTC1 – VTD7
VTD9 – VTEB – VTHA – VTIP – VTOX – VTRU – VTSA - VTUV

RMSE Hz: 0.006
RMSE Z: 0.015

PHOTOS:





Point ID	LC05
Project No.	22399
Project Name	Eastern VT LiDAR
State	Vermont
County	Windsor
Quad	Hancock

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
NAD83(2011)	
SPCS - Vermont (4400)	
NAVD88	
GEOID12A	
Meters	

Northing	Easting	Elevation
157016.086	473320.313	265.478

Operator	Kevin Chapman
Receiver Model	Trimble R8 Model 3
Receiver S/N	5133470976 / 5106461066
Antenna Height	2.000 Meters

Static Session	09762970 / 10663020
Date	10-24-2014 / 10-29-2014
Start Time (UTC)	16:33 / 13:25
End Time (UTC)	19:26 / 20:13

Point Ties: BE14 – LC36 – LC37 – LC43 – NYET – NYIL – NYPB – TW07 – VCAP – VTC1 – VTD7
VTD9 – VTEB – VTHA – VTIP – VTOX – VTRU – VTSA - VTUV

RMSE Hz: 0.006
RMSE Z: 0.015

PHOTOS:





Point ID	LC06
Project No.	22399
Project Name	Eastern VT LiDAR
State	Vermont
County	ADDISON
Quad	Hancock

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
NAD83(2011)	
SPCS - Vermont (4400)	
NAVD88	
GEOID12A	
Meters	

Northing	Easting	Elevation
164544.425	472483.458	299.163

Operator	Zeke Ingram
Receiver Model	TRIMBLE R-8 MODEL 3
Receiver S/N	5136472526
Antenna Height	2.000 Meters

Static Session	25263030
Date	10/30/2014
Start Time (UTC)	13:06
End Time (UTC)	16:56

Point Ties: BE01 – BE03 – LC07 – LC08 – NYET – NYIL – TW01 – TW02
VCAP – VTOX – VTRU – VTSP

RMSE Hz: 0.007
RMSE Z: 0.028

PHOTOS:





Point ID	LC07
Project No.	22399
Project Name	Eastern VT LiDAR
State	Vermont
County	Orange
Quad	Randolph

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
NAD83(2011)	
SPCS - Vermont (4400)	
NAVD88	
GEOID12A	
Meters	

Northing	Easting	Elevation
158484.089	486620.737	201.203

Operator	DI
Receiver Model	Trimble R8 Model 3
Receiver S/N	5106461067
Antenna Height	2.000 Meters

Static Session	10670860
Date	03272015
Start Time (UTC)	14:06
End Time (UTC)	15:32

Point Ties: BE01 - LC01 - NYET - NYPB - VCAP - VTC1 - VTD7 - VTD9 - VTHA - VTIP - VTOX - VTRU - VTSA - VTSP - VTUV

RMSE Hz: 0.007
RMSE Z: 0.018

PHOTOS:





Point ID	LC08
Project No.	22399
Project Name	Eastern VT LiDAR
State	Vermont
County	ORANGE
Quad	Roxbury

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
NAD83(2011)	
SPCS - Vermont (4400)	
NAVD88	
GEOID12A	
Meters	

Northing	Easting	Elevation
171163.338	480179.017	267.345

Operator	Zeke Ingram
Receiver Model	TRIMBLE R-8, MODEL 3
Receiver S/N	5133470976
Antenna Height	2.000 Meters

Static Session	09763031
Date	10/30/2014
Start Time (UTC)	15:38
End Time (UTC)	19:05

Point Ties: BE03 – LC06 – LC09 – LC10 – NYET – NYIL – TW02 – TW20
VCAP – VTOX – VTRU – VTSP

RMSE Hz: 0.008
RMSE Z: 0.027

PHOTOS:





Point ID	LC09
Project No.	22399
Project Name	Eastern VT LiDAR
State	Vermont
County	ORANGE
Quad	Brookfield

Aerial Target	
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
	NAD83(2011)
	SPCS - Vermont (4400)
	NAVD88
	GEOID12A
	Meters

Northing	Easting	Elevation
173912.827	491422.464	491.203

Operator	Zeke Ingram
Receiver Model	TRIMBLE R8, MODEL 3
Receiver S/N	5136472526
Antenna Height	2.000 Meters

Static Session	25263031
Date	10/30/2014
Start Time (UTC)	17:51
End Time (UTC)	19:32

Point Ties: LC08 – LC10 – NYET – NYIL – TW20 – VCAP – VTOX – VTRU – VTSP

RMSE Hz: 0.008

RMSE Z: 0.029

PHOTOS:





Point ID	LC10
Project No.	22399
Project Name	Eastern VT LiDAR
State	Vermont
County	WASHINGTON
Quad	WASHINGTON

Aerial Target	
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
	NAD83(2011)
	SPCS - Vermont (4400)
	NAVD88
	GEOID12A
	Meters

Northing	Easting	Elevation
179445.934	505204.725	395.560

Operator	SAM
Receiver Model	TRIMBLE R8 - MODEL 3
Receiver S/N	5106461066
Antenna Height	2.000 Meters

Static Session	10661062
Date	16 APRIL 2015
Start Time (UTC)	1610
End Time (UTC)	1655

Point Ties: LC11 - NYET - NYPB - VCAP - VTC1 - VTD7 - VTD9 - VTEB - VTHA - VTIP - VTOX - VTRU - VTSA - VTSP - VTUV

RMSE Hz: 0.007
RMSE Z: 0.015

PHOTOS:





Point ID	LC11
Project No.	22399
Project Name	Eastern VT LiDAR
State	Vermont
County	WASHINGTON
Quad	BARRE EAST

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
NAD83(2011)	
SPCS - Vermont (4400)	
NAVD88	
GEOID12A	
Meters	

Northing	Easting	Elevation
188532.369	499666.259	183.423

Operator	Zeke Ingram
Receiver Model	TRIMBLE R-8, MODEL 3
Receiver S/N	5133470976
Antenna Height	2.000 Meters

Static Session	09763040
Date	10-31-2014
Start Time (UTC)	13:10
End Time (UTC)	15:20

Point Ties: BE04 – BE05 – LC10 – LC12 – LC16 – NYET – NYIL - VCAP – VTD7
VTHA – VTOX – VTRU – VTUV

RMSE Hz: 0.007
RMSE Z: 0.025

PHOTOS:





Point ID	LC12
Project No.	22399
Project Name	Eastern VT LiDAR
State	Vermont
County	WASHINGTON
Quad	NORTHFIELD

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
NAD83(2011)	
SPCS - Vermont (4400)	
NAVD88	
GEOID12A	
Meters	

Northing	Easting	Elevation
188655.728	482606.979	427.543

Operator	Zeke Ingram
Receiver Model	TRIMBLE R-8, MODEL 3
Receiver S/N	5136472526
Antenna Height	2.000 Meters

Static Session	25263040
Date	10-31-2014
Start Time (UTC)	12:32
End Time (UTC)	13:54

Point Ties: BE04 – LC10 – LC11 – NYET – VCAP – VTD7
VTHA – VTOX – VTRU – VTUV

RMSE Hz: 0.008
RMSE Z: 0.021

PHOTOS:





Point ID	LC13
Project No.	22399
Project Name	Eastern VT LiDAR
State	Vermont
County	WASHINGTON
Quad	MONTPELIER

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
NAD83(2011)	
SPCS - Vermont (4400)	
NAVD88	
GEOID12A	
Meters	

Northing	Easting	Elevation
195003.269	492061.949	168.168

Operator	Zeke Ingram
Receiver Model	TRIMBLE R-8, MODEL 3
Receiver S/N	5133470976
Antenna Height	2.000 Meters

Static Session	09763041
Date	10-31-2014
Start Time (UTC)	16:01
End Time (UTC)	17:44

Point Ties: LC15 – LC16 – NYET – NYIL – TW03 – VCAP – VTD7
VTHA – VTOX – VTRU – VTUV

RMSE Hz: 0.007
RMSE Z: 0.021

PHOTOS:





Point ID	LC14
Project No.	22399
Project Name	Eastern VT LiDAR
State	Vermont
County	Orange
Quad	Middlesex

Aerial Target	
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
	NAD83(2011)
	SPCS - Vermont (4400)
	NAVD88
	GEOID12A
	Meters

Northing	Easting	Elevation
200902.547	484661.143	165.790

Operator	Kevin Chapman
Receiver Model	Trimble R8 Model 4
Receiver S/N	5329440824
Antenna Height	2.000 Meters

Static Session	08243042
Date	10-31-2014
Start Time (UTC)	18:02
End Time (UTC)	19:27

Point Ties: BE07 – LC15 – LC23 – LC24 – NYET – NYIL – TW03 – VCAP – VTD7
VTHA – VTOX – VTRU – VTUV

RMSE Hz: 0.007
RMSE Z: 0.017

PHOTOS:





Point ID	LC15
Project No.	22399
Project Name	Eastern VT LiDAR
State	Vermont
County	WASHINGTON
Quad	MONTPELIER

Aerial Target	
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
	NAD83(2011)
	SPCS - Vermont (4400)
	NAVD88
	GEOID12A
	Meters

Northing	Easting	Elevation
199531.706	497653.983	371.715

Operator	Zeke Ingram
Receiver Model	TRIMBLE R-8, MODEL 3
Receiver S/N	5136472526
Antenna Height	2.000 Meters

Static Session	25263042
Date	10-31-2014
Start Time (UTC)	17:00
End Time (UTC)	18:36

Point Ties: BE05 – LC13 – LC14 – LC23 – NYET – NYIL – TW03 – VCAP
VTD7 – VTHA – VTOX – VTRU – VTUV

RMSE Hz: 0.007
RMSE Z: 0.021

PHOTOS:





Point ID	LC16
Project No.	22399
Project Name	Eastern VT LiDAR
State	Vermont
County	WASHINGTON
Quad	MARSHFIELD

Aerial Target	
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
	NAD83(2011)
	SPCS - Vermont (4400)
	NAVD88
	GEOID12A
	Meters

Northing	Easting	Elevation
196045.162	510774.536	427.335

Operator	Zeke Ingram
Receiver Model	TRIMBLE R-8, MODEL 3
Receiver S/N	5136472526
Antenna Height	2.000 Meters

Static Session	25263041
Date	10-31-2014
Start Time (UTC)	14:58
End Time (UTC)	16:31

Point Ties: BE04 – BE05 – LC11 – LC13 – NYET – NYIL – VCAP
VTD7 – VTHA – VTOX – VTUV

RMSE Hz: 0.008
RMSE Z: 0.026

PHOTOS:





Point ID	LC17
Project No.	22399
Project Name	Eastern VT LiDAR
State	Vermont
County	Caledonia
Quad	Peacham

Aerial Target	
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
	NAD83(2011)
	SPCS - Vermont (4400)
	NAVD88
	GEOID12A
	Meters

Northing	Easting	Elevation
206546.592	520803.179	579.064

Operator	DI
Receiver Model	Trimble R8 Model 3
Receiver S/N	5106461067
Antenna Height	2.000 Meters

Static Session	10670890
Date	03302015
Start Time (UTC)	13:18
End Time (UTC)	15:17

Point Ties: BE06 - BE23 - LC39 - LC68 - LC70 - LC71 - MERA - NYET - NYPB - PMTL - TW17 - VCAP - VTC1 - VTD7 - VTD9 - VTEB - VTHA - VTIP - VTOX - VTRU - VTSA - VTSP - VTUW

RMSE Hz: 0.006
RMSE Z: 0.012

PHOTOS:





Point ID	LC18
Project No.	22399
Project Name	Eastern VT LiDAR
State	Vermont
County	WASHINGTON
Quad	CABOT

Aerial Target	
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
	NAD83(2011)
	SPCS - Vermont (4400)
	NAVD88
	GEOID12A
	Meters

Northing	Easting	Elevation
210007.610	513374.556	285.293

Operator	SAM
Receiver Model	TRIMBLE R8 - MODEL 3
Receiver S/N	5133470976
Antenna Height	2.000 Meters

Static Session	09760861
Date	27 MAR 2015
Start Time (UTC)	1858
End Time (UTC)	1958

Point Ties: LC11 - NYET - NYPB - VCAP - VTC1 - VTD7 - VTD9 - VTEB - VTHA - VTIP - VTOX - VTRU - VTSA - VTSP - VTUV

RMSE Hz: 0.007
RMSE Z: 0.013

PHOTOS:





Point ID	LC19
Project No.	22399
Project Name	Eastern VT LiDAR
State	Vermont
County	Washington
Quad	Joes Pond

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
NAD83(2011)	
SPCS - Vermont (4400)	
NAVD88	
GEOID12A	
Meters	

Northing	Easting	Elevation
212826.320	521366.455	499.813

Operator	DI
Receiver Model	Trimble R8 Model 3
Receiver S/N	5106461067
Antenna Height	2.000 Meters

Static Session	10670891
Date	03302015
Start Time (UTC)	15:36
End Time (UTC)	16:09

Point Ties: BE06 - LC39 - LC68 - MERA - NYPB - PMTL - TW17 - VCAP - VTC1 - VTD7 - VTD9 - VTEB - VTHA - VTIP - VTOX - VTRU - VTSA - VTSP - VTUV

RMSE Hz: 0.006
RMSE Z: 0.011

PHOTOS:





Point ID	LC20
Project No.	22399
Project Name	Eastern VT LiDAR
State	Vermont
County	WASHINGTON
Quad	WOODBURY

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
NAD83(2011)	
SPCS - Vermont (4400)	
NAVD88	
GEOID12A	
Meters	

Northing	Easting	Elevation
212737.935	506570.755	308.473

Operator	Zeke Ingram
Receiver Model	TRIMBLE R-8, MODEL 3
Receiver S/N	5136472526
Antenna Height	2.000 Meters

Static Session	25263090
Date	11-05-2014
Start Time (UTC)	13:44
End Time (UTC)	20:45

Point Ties: BE21 – LC20BS – LC21 – LC22 – LC38 – NYET – NYIL – NYPB – VCAP – VTC1 – VTD7
VTD9 – VTHA – VTOX – VTRU – VTSA - VTUV

RMSE Hz: 0.007
RMSE Z: 0.019

PHOTOS:





Point ID	LC21
Project No.	22399
Project Name	Eastern VT LiDAR
State	Vermont
County	WASHINGTON
Quad	MOUNT WORCESTER

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
NAD83(2011)	
SPCS - Vermont (4400)	
NAVD88	
GEOID12A	
Meters	

Northing	Easting	Elevation
210895.519	495767.737	244.941

Operator	Zeke Ingram
Receiver Model	TRIMBLE R-8, MODEL 3
Receiver S/N	5133470976
Antenna Height	2.000 Meters

Static Session	09763093
Date	11-05-2014
Start Time (UTC)	19:31
End Time (UTC)	20:03

Point Ties: BE21 – LC20 – LC38 – VCAP – VTC1
VTD9 – VTHA – VTSA - VTUV

RMSE Hz: 0.008
RMSE Z: 0.018

PHOTOS:





Point ID	LC22
Project No.	22399
Project Name	Eastern VT LiDAR
State	Vermont
County	Orange
Quad	Stowe

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
NAD83(2011)	
SPCS - Vermont (4400)	
NAVD88	
GEOID12A	
Meters	

Northing	Easting	Elevation
212734.170	482369.398	277.378

Operator	Kevin Chapman
Receiver Model	Trimble R8 Model 4
Receiver S/N	5329440824
Antenna Height	2.000 Meters

Static Session	08243043 / 08243090
Date	10-31-2014 / 11-05-2014
Start Time (UTC)	19:51 / 14:17
End Time (UTC)	20:28 / 14:48

Point Ties: BE07 – LC20 – LC20BS – LC23 – LC24 – LC38 – NYET – NYIL – VCAP
VTC1 – VTD7 - VTD9 – VTHA – VTOX – VTRU – VTSA - VTUV

RMSE Hz: 0.006
RMSE Z: 0.015

PHOTOS:





Point ID	LC23
Project No.	22399
Project Name	Eastern VT LiDAR
State	Vermont
County	WASHINGTON
Quad	WATERBURY

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
NAD83(2011)	
SPCS - Vermont (4400)	
NAVD88	
GEOID12A	
Meters	

Northing	Easting	Elevation
205501.339	478389.561	138.104

Operator	Zeke Ingram
Receiver Model	TRIMBLE R-8, MODEL
Receiver S/N	5133470976
Antenna Height	2.000 Meters

Static Session	09763042
Date	10-31-2014
Start Time (UTC)	18:05
End Time (UTC)	20:28

Point Ties: BE07 – LC14 – LC15 – LC22 – LC24 – NYET – NYIL – TW03 – VCAP
VTD7 - VTHA – VTOX – VTRU – VTUV

RMSE Hz: 0.007
RMSE Z: 0.015

PHOTOS:





Point ID	LC24
Project No.	22399
Project Name	Eastern VT LiDAR
State	Vermont
County	CHITTINDEN
Quad	RICHMOND

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
NAD83(2011)	
SPCS - Vermont (4400)	
NAVD88	
GEOID12A	
Meters	

Northing	Easting	Elevation
210036.650	464175.381	98.667

Operator	Zeke Ingram
Receiver Model	TRIMBLE R-8, MODEL 3
Receiver S/N	5136472526
Antenna Height	2.000 Meters

Static Session	25263043
Date	10-31-2014
Start Time (UTC)	19:18
End Time (UTC)	20:37

Point Ties: BE07 – LC14 – LC22 – LC23 – NYET – NYIL – VCAP – VTD7
VTHA – VTOX – VTRU – VTUV

RMSE Hz: 0.007
RMSE Z: 0.014

PHOTOS:





Point ID	LC25
Project No.	22399
Project Name	Eastern Vermont LiDAR
State	Vermont
County	Chittenden
Quad	Huntington

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
NAD83(2011)	
SPCS - Vermont (4400)	
NAVD88	
GEOID12A	
Meters	

Northing	Easting	Elevation
202954.247	461182.193	188.883

Operator	Kevin Chapman
Receiver Model	Trimble R8 Model 4
Receiver S/N	5329440824
Antenna Height	2.0m

Static Session	08243221
Date	11/18/14
Start Time (UTC)	17:51
End Time (UTC)	20:26

Point Ties: LC26BS – LC27 – LC28 – LC28BS – NYET – NYIL – NYPB – VCAP – VTD7
VTD9 – VTEB – VTHA – VTIP – VTOX – VTRU – VTSA - VTUV

RMSE Hz: 0.006
RMSE Z: 0.013

PHOTOS:





Point ID	LC26
Project No.	22399
Project Name	Eastern Vermont LiDAR
State	Vermont
County	Chittenden
Quad	Mount Ellen

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
NAD83(2011)	
SPCS - Vermont (4400)	
NAVD88	
GEOID12A	
Meters	

Northing	Easting	Elevation
191042.581	463862.395	451.956

Operator	Kevin Chapman
Receiver Model	Trimble R8 Model 3
Receiver S/N	5329440824
Antenna Height	2.0m

Static Session	08243220
Date	11/18/14
Start Time (UTC)	16:14
End Time (UTC)	17:29

Point Ties: LC26BS – LC27 – NYET – NYIL – NYPB – VCAP – VTD7
VTD9 – VTHA – VTIP – VTOX – VTRU – VTSA - VTUV

RMSE Hz: 0.007
RMSE Z: 0.016

PHOTOS:





Point ID	LC27
Project No.	22399
Project Name	Eastern Vermont LiDAR
State	Vermont
County	Addison
Quad	Hinesburg

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
NAD83(2011)	
SPCS - Vermont (4400)	
NAVD88	
GEOID12A	
Meters	

Northing	Easting	Elevation
196347.626	454726.853	121.301

Operator	Kevin Chapman
Receiver Model	Trimble R8 Model
Receiver S/N	5106461066
Antenna Height	2.0m

Static Session	10663220
Date	11/18/14
Start Time (UTC)	16:57
End Time (UTC)	19:38

Point Ties: LC25 – LC26 – LC26BS – LC28 – NYET – NYIL – NYPB – TW07 – VCAP – VTC1 – VTD7
VTD9 – VTEB – VTHA – VTIP – VTOX – VTRU – VTSA - VTUV

RMSE Hz: 0.006
RMSE Z: 0.013

PHOTOS:





Point ID	LC28
Project No.	22399
Project Name	Eastern Vermont LiDAR
State	Vermont
County	Chittenden
Quad	Hinesburg

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
NAD83(2011)	
SPCS - Vermont (4400)	
NAVD88	
GEOID12A	
Meters	

Northing	Easting	Elevation
203276.810	449579.893	109.383

Operator	Kevin Chapman
Receiver Model	Trimble R8 Model
Receiver S/N	5136472526
Antenna Height	2.0m

Static Session	25263221
Date	11/18/14
Start Time (UTC)	19:06
End Time (UTC)	20:51

Point Ties: LC25 – LC27 – LC28BS – NYET – NYIL – NYPB – VCAP – VTD7
VTD9 – VTEB – VTHA – VTIP – VTOX – VTRU – VTSA - VTUV

RMSE Hz: 0.007
RMSE Z: 0.013

PHOTOS:





Point ID	LC29
Project No.	22399
Project Name	Eastern Vermont LiDAR
State	Vermont
County	Chittenden
Quad	Mount Philo

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
NAD83(2011)	
SPCS - Vermont (4400)	
NAVD88	
GEOID12A	
Meters	

Northing	Easting	Elevation
199341.407	440879.352	69.378

Operator	Kevin Chapman
Receiver Model	Trimble R8 Model 3
Receiver S/N	5046455718
Antenna Height	2.0m

Static Session	57183350
Date	12/01/2014
Start Time (UTC)	12:04
End Time (UTC)	13:47

Point Ties: BE08 – LC28BS – LC29BS – LC31 – NYET – NYIL – NYPB – TW04
VCAP – VTC1 – VTD7 - VTD9

RMSE Hz: 0.007
RMSE Z: 0.013

PHOTOS:





Point ID	LC30
Project No.	22399
Project Name	Eastern Vermont LiDAR
State	Vermont
County	Chittenden
Quad	Juniper Island

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
NAD83(2011)	
SPCS - Vermont (4400)	
NAVD88	
GEOID12A	
Meters	

Northing	Easting	Elevation
209596.935	439193.183	72.866

Operator	Kevin Chapman
Receiver Model	Trimble R8 Model
Receiver S/N	5046455718
Antenna Height	2.0m

Static Session	57183351
Date	12/01/2014
Start Time (UTC)	14:13
End Time (UTC)	15:29

Point Ties: BE09 – BE10 – LC29BS – LC31 – LC31BS – NYET – NYIL – NYPB
VCAP – VTC1 – VTD7 – VTD9

RMSE Hz: 0.007
RMSE Z: 0.015

PHOTOS:





Point ID	LC31
Project No.	22399
Project Name	EASTERN VT LIDAR
State	VERMONT
County	CHITENDEN
Quad	ESSEX JUNCTION

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
NAD83(2011)	
SPCS - Vermont (4400)	
NAVD88	
GEOID12A	
Meters	

Northing	Easting	Elevation
215441.991	450982.228	143.294

Operator	ZEKE INGRAM
Receiver Model	TRIMBLE R-8, MODEL 3
Receiver S/N	5136472526
Antenna Height	2.00 METERS

Static Session	25263351
Date	12-01-2014
Start Time (UTC)	13:34
End Time (UTC)	14:50

Point Ties: LC29BS – LC29 – LC31BS – LC31 – NYET – NYIL – NYPB – TW04
VCAP – VTC1 – VTD7 --VTD9

RMSE Hz: 0.007
RMSE Z: 0.016

PHOTOS:





Point ID	LC32
Project No.	22399
Project Name	Eastern Vermont LiDAR
State	Vermont
County	Chittenden
Quad	Burlington

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
NAD83(2011)	
SPCS - Vermont (4400)	
NAVD88	
GEOID12A	
Meters	

Northing	Easting	Elevation
220726.527	442637.588	63.308

Operator	Kevin Chapman
Receiver Model	Trimble R8 Model
Receiver S/N	5108461884
Antenna Height	2.0m

Static Session	18843353
Date	12/01/2014
Start Time (UTC)	16:44
End Time (UTC)	18:37

Point Ties: LC33 – LC34 – LC35 – NYET – NYIL – NYPB – TW05 – TW06
VCAP – VTC1 – VTD7 - VTD9

RMSE Hz: 0.007
RMSE Z: 0.019

PHOTOS:





Point ID	LC33
Project No.	22399
Project Name	Eastern Vermont LiDAR
State	Vermont
County	Chittenden
Quad	Colchester Point

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
NAD83(2011)	
SPCS - Vermont (4400)	
NAVD88	
GEOID12A	
Meters	

Northing	Easting	Elevation
228405.545	436714.847	36.549

Operator	Kevin Chapman
Receiver Model	Trimble R8 Model
Receiver S/N	5046455718
Antenna Height	2.0m

Static Session	57183353
Date	12/01/2014
Start Time (UTC)	18:06
End Time (UTC)	19:14

Point Ties: LC32 – LC33BS – LC34 – LC46 – NYET – NYIL – NYPB – TW09
VCAP – VTC1 – VTD7 – VTD9

RMSE Hz: 0.007
RMSE Z: 0.023

PHOTOS:





Point ID	LC34
Project No.	22399
Project Name	EASTERN VT LIDAR
State	VERMONT
County	CHITENDEN
Quad	COLCHESTER

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
NAD83(2011)	
SPCS - Vermont (4400)	
NAVD88	
GEOID12A	
Meters	

Northing	Easting	Elevation
227709.884	447171.795	51.633

Operator	ZEKE INGRAM
Receiver Model	TRIMBLE R-8, MODEL 3
Receiver S/N	5133470976
Antenna Height	2.00 METERS

Static Session	09763353
Date	12-01-2014
Start Time (UTC)	17:44
End Time (UTC)	19:13

Point Ties: LC32 – LC33 – LC33BS – LC46 – NYET – NYIL – NYPB – TW06
VCAP – VTC1 – VTD7 – VTD9

RMSE Hz: 0.007
RMSE Z: 0.020

PHOTOS:





Point ID	LC35
Project No.	22399
Project Name	EASTERN VT LIDAR
State	VERMONT
County	CHITENDEN
Quad	ESSEX CENTER

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
NAD83(2011)	
SPCS - Vermont (4400)	
NAVD88	
GEOID12A	
Meters	

Northing	Easting	Elevation
222567.165	458014.966	153.390

Operator	ZEKE INGRAM
Receiver Model	TRIMBLE R-8, MODEL 3
Receiver S/N	5133479876
Antenna Height	2.00 METERS

Static Session	09763352
Date	12-01-2014
Start Time (UTC)	16:18
End Time (UTC)	17:21

Point Ties: BE10 – LC32 – NYET – NYIL – NYPB – TW05 – TW06
VCAP – VTC1 – VTD7 – VTD9

RMSE Hz: 0.007
RMSE Z: 0.017

PHOTOS:





Point ID	LC36
Project No.	22399
Project Name	Eastern Vermont LiDAR
State	Vermont
County	Chittenden
Quad	Underhill

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
SPCS - Vermont (4400)
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
222850.310	468729.372	269.508

Operator	Kevin Chapman
Receiver Model	Trimble R8 Model
Receiver S/N	5046455718
Antenna Height	2.0m

Static Session	57183363
Date	12/02/2014
Start Time (UTC)	18:15
End Time (UTC)	21:26

Point Ties: BE11 – LC37 – LC44 – LC45 – NYET – NYIL – NYPB – TW07
VCAP – VTC1 – VTD7 – VTD9

RMSE Hz: 0.007
RMSE Z: 0.016

PHOTOS:





Point ID	LC37
Project No.	22399
Project Name	EASTERN VT LIDAR
State	VERMONT
County	LAMOILLE
Quad	STOWE

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
NAD83(2011)	
SPCS - Vermont (4400)	
NAVD88	
GEOID12A	
Meters	

Northing	Easting	Elevation
221532.115	480714.135	264.330

Operator	ZEKE INGRAM
Receiver Model	TRIMBLE R-8, MODEL 3
Receiver S/N	5133470976
Antenna Height	2.00 METERS

Static Session	09763363
Date	12-02-2014
Start Time (UTC)	19:01
End Time (UTC)	21:04

Point Ties: BE11 – LC36 – LC44 – NYET – NYIL – NYPB – TW07
VCAP – VTD7 – VTD9

RMSE Hz: 0.007
RMSE Z: 0.015

PHOTOS:





Point ID	LC38
Project No.	22399
Project Name	Eastern VT LiDAR
State	Vermont
County	Lamoille
Quad	Mount Worchester

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
NAD83(2011)	
SPCS - Vermont (4400)	
NAVD88	
GEOID12A	
Meters	

Northing	Easting	Elevation
220813.876	498044.895	388.802

Operator	Kevin Chapman
Receiver Model	Trimble R8 Model 3
Receiver S/N	5106461066
Antenna Height	2.000 Meters

Static Session	10663090
Date	11-05-2014
Start Time (UTC)	13:41
End Time (UTC)	20:21

Point Ties: BE21 – LC20 – LC20BS – LC21 – LC22 – NYET – NYIL – NYPB – VCAP – VTC1 – VTD7
VTD9 – VTHA – VTOX – VTRU – VTSA - VTUV

RMSE Hz: 0.006
RMSE Z: 0.016

PHOTOS:





Point ID	LC39
Project No.	22399
Project Name	Eastern VT LiDAR
State	Vermont
County	Caledonia
Quad	Cabot

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
NAD83(2011)	
SPCS - Vermont (4400)	
NAVD88	
GEOID12A	
Meters	

Northing	Easting	Elevation
220633.000	515309.368	330.738

Operator	DI
Receiver Model	Trimble R8 Model 3
Receiver S/N	5108461884
Antenna Height	2.000 Meters

Static Session	18840880
Date	03292015
Start Time (UTC)	13:36
End Time (UTC)	16:37

Point Ties: BE06 - BE14 - BE22 - BE23 - LC17 - LC19 - LC41 - LC59 - LC60 - LC61 - LC62 - LC68 - LC70 - LC71 - MERA - NYET - NYPB - PMTL - TW17 - VCAP - VTC1 - VTD7 - VTD9 - VTEB - VTHA - VTIP - VTOX - VTRU - VTSA - VTSP - VTUV

RMSE Hz: 0.004
RMSE Z: 0.009

PHOTOS:





Point ID	LC40
Project No.	22399
Project Name	Eastern VT LiDAR
State	Vermont
County	Caledonia
Quad	Stannard

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
NAD83(2011)	
SPCS - Vermont (4400)	
NAVD88	
GEOID12A	
Meters	

Northing	Easting	Elevation
227146.511	523658.688	529.231

Operator	DI
Receiver Model	Trimble R8 Model 3
Receiver S/N	5106461067
Antenna Height	2.000 Meters

Static Session	10670900
Date	03312015
Start Time (UTC)	20:15
End Time (UTC)	18:37

Point Ties: BE12 - LC60 - NYET - NYPB - TW09 - VCAP - VTC1 - VTD7 - VTEB - VTHA - VTIP - VTOX - VTRU - VTSA - VTSP - VTUV

RMSE Hz: 0.007
RMSE Z: 0.011

PHOTOS:





Point ID	LC41
Project No.	22399
Project Name	Eastern VT LiDAR
State	Vermont
County	Caledonia
Quad	Caspian Lake

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
NAD83(2011)	
SPCS - Vermont (4400)	
NAVD88	
GEOID12A	
Meters	

Northing	Easting	Elevation
230841.917	510679.864	269.461

Operator	DI
Receiver Model	Trimble R8 Model 3
Receiver S/N	5106461067
Antenna Height	2.000 Meters

Static Session	10670880
Date	03292015
Start Time (UTC)	15:35
End Time (UTC)	18:51

Point Ties: BE14 - BE22 - LC39 - LC55 - LC58 - LC62 - NYET - TW16 - VCAP - VTD7 - VTEB - VTHA - VTSA

RMSE Hz: 0.007

RMSE Z: 0.011

PHOTOS:





Point ID	LC42
Project No.	22399
Project Name	EASTERN VT LIDAR
State	VERMONT
County	LAMOILLE
Quad	WILCOTT

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
NAD83(2011)	
SPCS - Vermont (4400)	
NAVD88	
GEOID12A	
Meters	

Northing	Easting	Elevation
226353.865	503770.976	245.782

Operator	ZEKE INGRAM
Receiver Model	TRIMBLE R-8, MODEL 3
Receiver S/N	5136472526
Antenna Height	2.00 METERS

Static Session	25263371
Date	12-03-2014
Start Time (UTC)	17:42
End Time (UTC)	19:33

Point Ties: BE13 – BE14 – LC18 – LC43 – NYET – NYIL – NYPB – TW10 – VTC1
VTD9 – VTEB – VTHA – VTIP – VTOX – VTRU – VTSA - VTUV

RMSE Hz: 0.007
RMSE Z: 0.017

PHOTOS:





Point ID	LC43
Project No.	22399
Project Name	EASTERN VT LIDAR
State	VERMONT
County	LAMOILLE
Quad	MORRISVILLE

Aerial Target	
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
	NAD83(2011)
	SPCS - Vermont (4400)
	NAVD88
	GEOID12A
	Meters

Northing	Easting	Elevation
228296.762	490909.424	201.593

Operator	ZEKE INGRAM
Receiver Model	TRIMBLE R-8, MODEL 3
Receiver S/N	5133470976
Antenna Height	2.00 METERS

Static Session	09763370
Date	12-03-2014
Start Time (UTC)	15:46
End Time (UTC)	18:14

Point Ties: BE11 – BE13 – BE14 – LC42 – NYET – NYIL – NYPB – TW07 – VCAP – VTC1 – VTD7
VTD9 – VTEB – VTHA – VTIP – VTOX – VTRU – VTSA - VTUV

RMSE Hz: 0.006
RMSE Z: 0.016

PHOTOS:





Point ID	LC44
Project No.	22399
Project Name	EASTERN VT LIDAR
State	VERMONT
County	LAMOILLE
Quad	MOUNT MANSFIELD

Aerial Target	
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
	NAD83(2011)
	SPCS - Vermont (4400)
	NAVD88
	GEOID12A
	Meters

Northing	Easting	Elevation
230283.866	477890.642	480.281

Operator	ZEKE INGRAM
Receiver Model	TRIMBLE R-8, MODEL 3
Receiver S/N	5136472526
Antenna Height	2.00 METERS

Static Session	25263362
Date	12-02-2014
Start Time (UTC)	17:37
End Time (UTC)	19:50

Point Ties: BE17 – LC36 – LC37 – LC45 – NYET – NYIL – NYPB – VCAP – VTD7 – VTD9

RMSE Hz: 0.007
RMSE Z: 0.017

PHOTOS:





Point ID	LC45
Project No.	22399
Project Name	Eastern Vermont LiDAR
State	Vermont
County	Chittenden
Quad	Underhill

Aerial Target	
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
	NAD83(2011)
	SPCS - Vermont (4400)
	NAVD88
	GEOID12A
	Meters

Northing	Easting	Elevation
231126.553	464918.274	226.394

Operator	Kevin Chapman
Receiver Model	Trimble R8 Model
Receiver S/N	5108461884
Antenna Height	2.0m

Static Session	18843362
Date	12/02/2014
Start Time (UTC)	17:03
End Time (UTC)	18:46

Point Ties: BE17 – LC36 – LC44 – LC51 – NYET – NYIL – NYPB – VCAP – VTD7 – VTD9

RMSE Hz: 0.007
RMSE Z: 0.019

PHOTOS:





Point ID	LC46
Project No.	22399
Project Name	EASTERN VT LIDAR
State	VERMONT
County	
Quad	

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
NAD83(2011)	
SPCS - Vermont (4400)	
NAVD88	
GEOID12A	
Meters	

Northing	Easting	Elevation
232387.652	452021.404	141.353

Operator	ZEKE INGRAM
Receiver Model	TRIMBLE R-8, MODEL 3
Receiver S/N	5136472526
Antenna Height	2.00 METERS

Static Session	25263354
Date	12-01-2014
Start Time (UTC)	18:40
End Time (UTC)	20:02

Point Ties: BE15 – LC33 – LC33BS – LC34 – NYET – NYIL – NYPB – VCAP – VTC1 – VTD7 – VTD9

RMSE Hz: 0.007
RMSE Z: 0.021

PHOTOS:





Point ID	LC47
Project No.	22399
Project Name	EASTERN VT LIDAR
State	VERMONT
County	CHITENDEN
Quad	GEORGIA PLAINS

Aerial Target	
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
	NAD83(2011)
	SPCS - Vermont (4400)
	NAVD88
	GEOID12A
	Meters

Northing	Easting	Elevation
236455.888	441262.879	30.925

Operator	ZEKE INGRAM
Receiver Model	TRIMBLE R-8, MODEL 3
Receiver S/N	5136472526 / 5133470976
Antenna Height	2.00 METERS

Static Session	25263355 / 09763360
Date	12-01-2014 / 12-02-2014
Start Time (UTC)	20:33 / 12:22
End Time (UTC)	21:06 / 13:23

Point Ties: BE15 – LC33BS – LC48 – NYET – NYIL – NYPB – TW12 – TW13
VCAP – VTC1 – VTD7 – VTD9

RMSE Hz: 0.007
RMSE Z: 0.025

PHOTOS:





Point ID	LC48
Project No.	22399
Project Name	EASTERN VT LIDAR
State	VERMONT
County	CHITTENDEN
Quad	GEORGIA PLAINS

Aerial Target	
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
	NAD83(2011)
	SPCS - Vermont (4400)
	NAVD88
	GEOID12A
	Meters

Northing	Easting	Elevation
244316.749	451490.294	117.536

Operator	ZEKE INGRAM
Receiver Model	TRIMBLE R-8, MODEL 3
Receiver S/N	5136472526
Antenna Height	2.00 METERS

Static Session	25263360
Date	12-02-2014
Start Time (UTC)	12:51
End Time (UTC)	14:50

Point Ties: BE16 – LC47 – LC49 – LC43 – NYET – NYIL – NYPB – TW12 – TW13 – VCAP – VTD7 – VTD9

RMSE Hz: 0.007
RMSE Z: 0.026

PHOTOS:





Point ID	LC49
Project No.	22399
Project Name	EASTERN VT LIDAR
State	VERMONT
County	FRANKLIN
Quad	MILTON

Aerial Target	
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
	NAD83(2011)
	SPCS - Vermont (4400)
	NAVD88
	GEOID12A
	Meters

Northing	Easting	Elevation
247512.074	456828.041	177.021

Operator	ZEKE INGRAM
Receiver Model	TRIMBLE R-8, MODEL 3
Receiver S/N	5133470976
Antenna Height	2.00 METERS

Static Session	09763361
Date	12-02-2014
Start Time (UTC)	14:19
End Time (UTC)	15:49

Point Ties: BE16 – LC48 – LC50 – NYET – NYIL – NYPB – TW11 – TW13 – VCAP – VTD7 – VTD9

RMSE Hz: 0.007
RMSE Z: 0.027

PHOTOS:





Point ID	LC50
Project No.	22399
Project Name	EASTERN VT LIDAR
State	VERMONT
County	FRANKLIN
Quad	GILSON MOUNTAIN

Aerial Target	
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
	NAD83(2011)
	SPCS - Vermont (4400)
	NAVD88
	GEOID12A
	Meters

Northing	Easting	Elevation
245784.750	463485.265	224.252

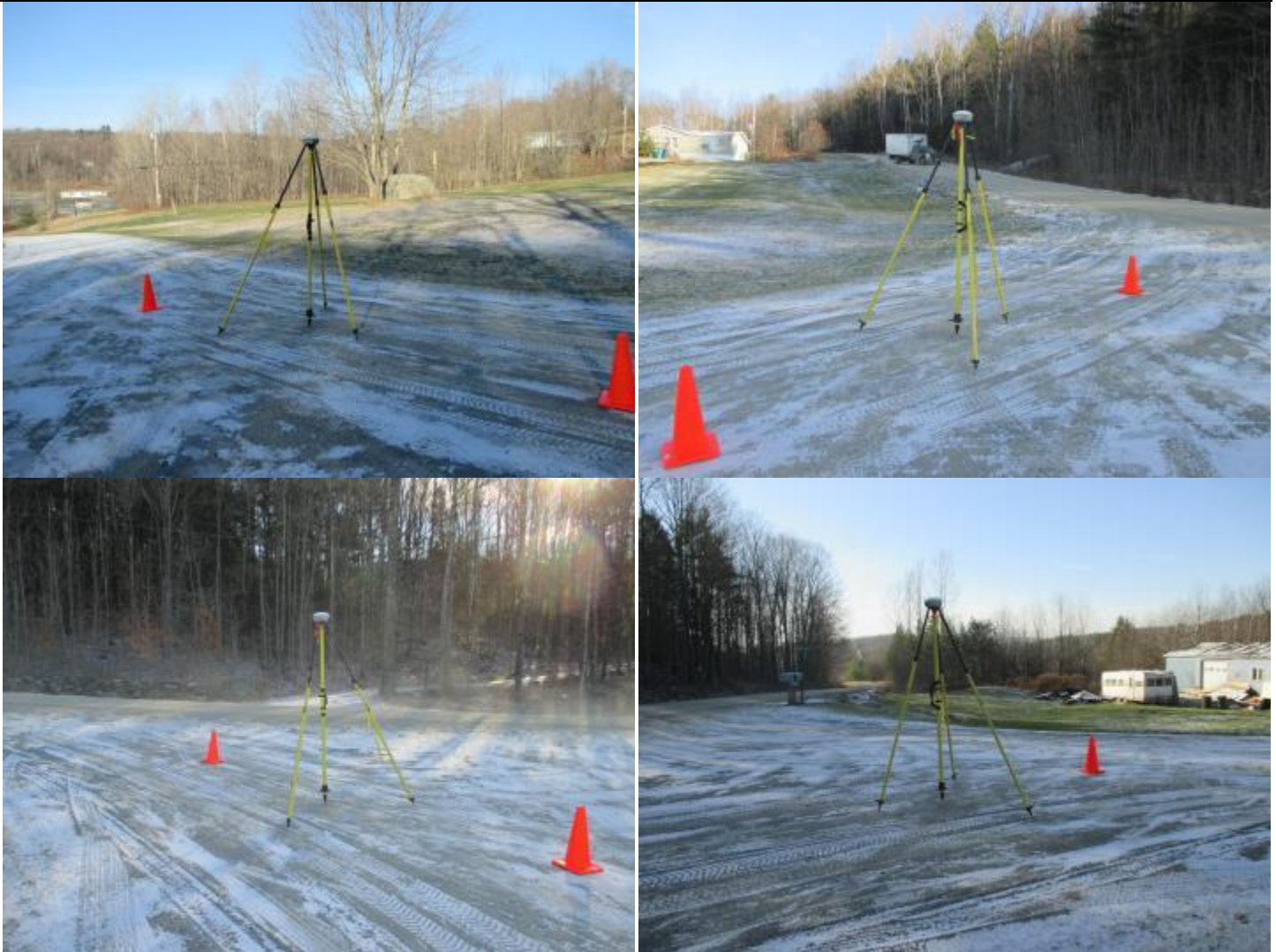
Operator	ZEKE INGRAM
Receiver Model	TRIMBLE R-8, MODEL 3
Receiver S/N	5136472526
Antenna Height	2.00 METERS

Static Session	25263361
Date	12-02-2014
Start Time (UTC)	15:18
End Time (UTC)	16:48

Point Ties: BE16 – BE17 – LC49 – LC51 – NYET – NYIL – NYPB – TW11 – VCAP – VTD7 – VTD9

RMSE Hz: 0.007
RMSE Z: 0.025

PHOTOS:





Point ID	LC51
Project No.	22399
Project Name	Eastern Vermont LiDAR
State	Vermont
County	Lamoille
Quad	Jeffersonville

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
NAD83(2011)	
SPCS - Vermont (4400)	
NAVD88	
GEOID12A	
Meters	

Northing	Easting	Elevation
238463.593	471394.102	140.119

Operator	Kevin Chapman
Receiver Model	Trimble R8 Model
Receiver S/N	5046455718
Antenna Height	2.0m

Static Session	57183362
Date	12/02/2014
Start Time (UTC)	16:13
End Time (UTC)	17:36

Point Ties: BE17 – LC45 – LC50 – NYET – NYIL – NYPB – TW11 – VCAP – VTD7 – VTD9

RMSE Hz: 0.007
RMSE Z: 0.020

PHOTOS:





Point ID	LC52
Project No.	22399
Project Name	Eastern VT LiDAR
State	Vermont
County	WASHINGTON
Quad	JOHNSON

Aerial Target	
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
	NAD83(2011)
	SPCS - Vermont (4400)
	NAVD88
	GEOID12A
	Meters

Northing	Easting	Elevation
249691.851	484015.309	260.619

Operator	SAM
Receiver Model	TRIMBLE R8 - MODEL 3
Receiver S/N	5108461884
Antenna Height	2.000 Meters

Static Session	18841070
Date	17 APRIL 2015
Start Time (UTC)	1307
End Time (UTC)	1410

Point Ties: BE14 - BE18 - BE19 - LC54 - NYET - NYPB - TW14 - VCAP - VTC1 - VTD7 - VTD9 - VTEB - VTHA - VTIP - VTOX - VTRU - VTSA - VTSP - VTUV

RMSE Hz: 0.004
RMSE Z: 0.009

PHOTOS:





Point ID	LC53
Project No.	22399
Project Name	Eastern VT LiDAR
State	Vermont
County	LAMOILE
Quad	ALBANY

Aerial Target	
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
	NAD83(2011)
	SPCS - Vermont (4400)
	NAVD88
	GEOID12A
	Meters

Northing	Easting	Elevation
251653.985	490829.829	349.428

Operator	SAM
Receiver Model	TRIMBLE R8 - MODEL 3
Receiver S/N	5135472526
Antenna Height	2.000 Meters

Static Session	25260832
Date	24 MAR 2015
Start Time (UTC)	1802
End Time (UTC)	1900

Point Ties: BE14 - LC54 - LC55 - LC56 - NYET - NYPB - TW14 - VCAP - VTC1 - VTD7 - VTD9 - VTEB - VTHA - VTIP - VTOX - VTRU - VTSA - VTSP - VTUV

RMSE Hz: 0.006
RMSE Z: 0.010

PHOTOS:





Point ID	LC54
Project No.	22399
Project Name	Eastern VT LiDAR
State	Vermont
County	Lamoille
Quad	Eden

Aerial Target	
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
	NAD83(2011)
	SPCS - Vermont (4400)
	NAVD88
	GEOID12A
	Meters

Northing	Easting	Elevation
240680.033	491568.870	261.450

Operator	Bill Neville
Receiver Model	Leica GS15
Receiver S/N	0881
Antenna Height	2.000 Meters

Date	03-24-2015
Start Time (UTC)	1701
End Time (UTC)	1804

Point Ties: BE14 - BE18 - BE19 - LC52 - LC53 - LC55 - LC56 - NYET - NYPB - TW14 - VCAP - VTC1 - VTD7 - VTD9 - VTEB - VTHA - VTIP - VTOX - VTRU - VTSA - VTSP - VTUV

RMSE Hz: 0.006
RMSE Z: 0.009

PHOTOS:





Point ID	LC55
Project No.	22399
Project Name	Eastern VT LiDAR
State	Vermont
County	LAMOILLE
Quad	ALBANY

Aerial Target	
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
	NAD83(2011)
	SPCS - Vermont (4400)
	NAVD88
	GEOID12A
	Meters

Northing	Easting	Elevation
247641.743	500327.764	379.987

Operator	SAM
Receiver Model	TRIMBLE R8 - MODEL 3
Receiver S/N	5135472526
Antenna Height	2.000 Meters

Static Session	25260883
Date	28 MAR 2015
Start Time (UTC)	1826
End Time (UTC)	1856

Point Ties: BE14 - LC41 - LC53 - LC54 - LC56 - LC58 - LC62 - NYET - NYPB - TW14 - VCAP - VTC1 - VTD7 - VTD9 - VTEB - VTHA - VTIP - VTOX - VTRU - VTSA - VTSP - VTUV

RMSE Hz: 0.004
RMSE Z: 0.009

PHOTOS:





Point ID	LC56
Project No.	22399
Project Name	Eastern VT LiDAR
State	Vermont
County	Orleans
Quad	Albany

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
NAD83(2011)	
SPCS - Vermont (4400)	
NAVD88	
GEOID12A	
Meters	

Northing	Easting	Elevation
241679.205	503123.954	492.847

Operator	Bill Neville
Receiver Model	Leica GS15
Receiver S/N	0893
Antenna Height	2.000 Meters

Static Session	
Date	03-24-2015
Start Time (UTC)	1830
End Time (UTC)	1930

Point Ties: BE14 - LC53 - LC54 - LC55 - NYET - NYPB - TW14 - VCAP - VTC1 - VTD7 - VTD9 - VTEB - VTHA - VTIP - VTOX - VTRU - VTSA - VTSP - VTUV

RMSE Hz: 0.006
RMSE Z: 0.010

PHOTOS:





Point ID	LC57
Project No.	22399
Project Name	Eastern VT LiDAR
State	Vermont
County	ORLEANS
Quad	ALBANY

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
NAD83(2011)	
SPCS - Vermont (4400)	
NAVD88	
GEOID12A	
Meters	

Northing	Easting	Elevation
239346.310	509271.008	379.450

Operator	SAM
Receiver Model	TRIMBLE R8 - MODEL 3
Receiver S/N	5135472526
Antenna Height	2.000 Meters

Static Session	25260900
Date	31 MAR 2015
Start Time (UTC)	1913
End Time (UTC)	2013

Point Ties: BE12 - BE20 - LC60 - NYET - NYPB - VCAP - VTC1 - VTD7 - VTEB - VTHA - VTIP - VTOX - VTRU - VTSA - VTSP - VTUV

RMSE Hz: 0.006
RMSE Z: 0.011

PHOTOS:





Point ID	LC58
Project No.	22399
Project Name	Eastern VT LiDAR
State	Vermont
County	Orleans
Quad	Crystal Lake

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
NAD83(2011)	
SPCS - Vermont (4400)	
NAVD88	
GEOID12A	
Meters	

Northing	Easting	Elevation
237851.560	523278.555	381.545

Operator	DI
Receiver Model	Trimble R8 Model 3
Receiver S/N	5108461884
Antenna Height	2.000 Meters

Static Session	18840881
Date	03292015
Start Time (UTC)	17:14
End Time (UTC)	21:01

Point Ties: BE14 - LC41 - LC55 - LC62 - LC69 - LC70 - NYET - NYPB - TW16 - VCAP - VTC1 - VTD7 - VTD9 - VTEB - VTHA - VTIP - VTOX - VTRU - VTSA - VTSP - VTUV

RMSE Hz: 0.006
RMSE Z: 0.010

PHOTOS:





Point ID	LC59
Project No.	22399
Project Name	Eastern VT LiDAR
State	Vermont
County	ORLEANS
Quad	CRAFTSBURY

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
NAD83(2011)	
SPCS - Vermont (4400)	
NAVD88	
GEOID12A	
Meters	

Northing	Easting	Elevation
246904.667	519176.393	474.591

Operator	SAM
Receiver Model	TRIMBLE R8 - MODEL 3
Receiver S/N	5135472526
Antenna Height	2.000 Meters

Static Session	25260880
Date	28 MAR 2015
Start Time (UTC)	1343
End Time (UTC)	1444

Point Ties: BE14 - LC39 - LC60 - LC62 - NYET - NYPB - VCAP - VTC1 - VTD7 - VTD9 - VTEB - VTHA - VTIP - VTOX - VTRU - VTSA - VTSP - VTUV

RMSE Hz: 0.006
RMSE Z: 0.011

PHOTOS:





Point ID	LC60
Project No.	22399
Project Name	Eastern VT LiDAR
State	Vermont
County	ORLEANS
Quad	ALBANY

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
NAD83(2011)	
SPCS - Vermont (4400)	
NAVD88	
GEOID12A	
Meters	

Northing	Easting	Elevation
247907.277	509543.513	291.745

Operator	SAM
Receiver Model	TRIMBLE R8 - MODEL 3
Receiver S/N	5133470976
Antenna Height	2.000 Meters

Static Session	09760880
Date	28 MAR 2015
Start Time (UTC)	1954
End Time (UTC)	2054

Point Ties: BE12 - BE14 - BE20 - LC39 - LC40 - LC57 - LC59 - LC61 - LC62 - NYET - NYPB - TW09 - VCAP - VTC1 - VTD7 - VTD9 - VTEB - VTHA - VTIP - VTOX - VTRU - VTSA - VTSP - VTUV

RMSE Hz: 0.004
RMSE Z: 0.009

PHOTOS:





Point ID	LC61
Project No.	22399
Project Name	Eastern VT LiDAR
State	Vermont
County	ORLEANS
Quad	IRASBURG

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
NAD83(2011)	
SPCS - Vermont (4400)	
NAVD88	
GEOID12A	
Meters	

Northing	Easting	Elevation
252618.964	514157.738	270.213

Operator	SAM
Receiver Model	TRIMBLE R8 - MODEL 3
Receiver S/N	5135472526
Antenna Height	2.000 Meters

Static Session	25260881
Date	28 MAR 2015
Start Time (UTC)	1524
End Time (UTC)	1636

Point Ties: VTUV - BE14 - BE22 - LC39 - LC60 - LC62 - NYET - NYPB - VCAP - VTC1 - VTD7 - VTD9 - VTEB - VTHA - VTIP - VTOX - VTRU - VTSA - VTSP

RMSE Hz: 0.006
RMSE Z: 0.011

PHOTOS:





Point ID	LC62
Project No.	22399
Project Name	Eastern VT LiDAR
State	Vermont
County	ORLEANS
Quad	ORLEANS

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
NAD83(2011)	
SPCS - Vermont (4400)	
NAVD88	
GEOID12A	
Meters	

Northing	Easting	Elevation
256474.095	524455.263	230.591

Operator	SAM
Receiver Model	TRIMBLE R8 - MODEL 3
Receiver S/N	5106461066
Antenna Height	2.000 Meters

Static Session	10660880
Date	28 MAR 2015
Start Time (UTC)	1308
End Time (UTC)	2104

Point Ties: BE14 - BE22 - LC39 - LC41 - LC55 - LC58 - LC59 - LC60 - LC61 - LC69 - LC70 - NYET - NYPB - TW16 - VCAP
 - VTC1 - VTD7 - VTD9 - VTEB - VTHA - VTIP - VTOX - VTRU - VTSA - VTSP - VTUV

RMSE Hz: 0.006
RMSE Z: 0.010

PHOTOS:





Point ID	LC63
Project No.	22399
Project Name	Eastern VT LiDAR
State	Vermont
County	Orleans
Quad	Westmore

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
NAD83(2011)	
SPCS - Vermont (4400)	
NAVD88	
GEOID12A	
Meters	

Northing	Easting	Elevation
253556.025	533929.461	361.715

Operator	DI
Receiver Model	Trimble R8 Model 3
Receiver S/N	5046465718
Antenna Height	2.000 Meters

Static Session	57180891
Date	03302015
Start Time (UTC)	14:36
End Time (UTC)	19:30

Point Ties: BE24 - BE25 - LC64 - LC66 - LC67 - LC68 - MERA - NYET - NYPB - PMTL - VCAP - VTC1 - VTD7 - VTD9 - VTETB - VTTHA - VTIP - VTOX - VTRU - VTSA - VTSP - VTUV

RMSE Hz: 0.006
RMSE Z: 0.011

PHOTOS:





Point ID	LC64
Project No.	22399
Project Name	Eastern VT LiDAR
State	Vermont
County	Orleans
Quad	Island Pond

Aerial Target	
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
	NAD83(2011)
	SPCS - Vermont (4400)
	NAVD88
	GEOID12A
	Meters

Northing	Easting	Elevation
258776.299	541573.318	355.530

Operator	DI
Receiver Model	Trimble R8 Model 3
Receiver S/N	5108461884
Antenna Height	2.000 Meters

Static Session	18840891
Date	03302015
Start Time (UTC)	18:37
End Time (UTC)	20:59

Point Ties: BE24 - BE25 - LC63 - LC65 - LC66 - LC68 - MERA - NYET - NYPB - PMTL - TW18 - VCAP - VTC1 - VTD7 - VTD9 - VTEB - VTHA - VTIP - VTOX - VTRU - VTSA - VTSP - VTUV

RMSE Hz: 0.006
RMSE Z: 0.010

PHOTOS:





Point ID	LC65
Project No.	22399
Project Name	Eastern VT LiDAR
State	Vermont
County	ORLEANS
Quad	WEST CHARLESTON

Aerial Target	
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
	NAD83(2011)
	SPCS - Vermont (4400)
	NAVD88
	GEOID12A
	Meters

Northing	Easting	Elevation
266496.917	534426.147	304.490

Operator	SAM
Receiver Model	TRIMBLE R8 - MODEL 3
Receiver S/N	5133470976
Antenna Height	2.000 Meters

Static Session	09760894
Date	29 MAR 2015
Start Time (UTC)	1942
End Time (UTC)	2042

Point Ties: BE24 - BE25 - LC64 - LC68 - MERA - NYET - NYPB - PMTL - TW18 - VCAP - VTC1 - VTD7 - VTD9 - VTEB - VTHA - VTIP - VTOX - VTRU - VTSA - VTSP - VTUV

RMSE Hz: 0.006
RMSE Z: 0.013

PHOTOS:





Point ID	LC66
Project No.	22399
Project Name	Eastern VT LiDAR
State	Vermont
County	ORLEANS
Quad	WEST OF NORTON POINT OF ENTRY

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
NAD83(2011)	
SPCS - Vermont (4400)	
NAVD88	
GEOID12A	
Meters	

Northing	Easting	Elevation
277306.773	542615.129	421.623

Operator	SAM
Receiver Model	TRIMBLE R8 - MODEL 3
Receiver S/N	5133470976
Antenna Height	2.000 Meters

Static Session	09760893
Date	29 MAR 2015
Start Time (UTC)	1812
End Time (UTC)	1912

Point Ties: BE24 - BE25 - LC63 - LC64 - LC68 - MERA - NYET - NYPB - PMTL - VCAP - VTC1 - VTD7 - VTD9 - VTEB - VTHA - VTIP - VTOX - VTRU - VTSA - VTSP - VTUV

RMSE Hz: 0.006
RMSE Z: 0.012

PHOTOS:





Point ID	LC67
Project No.	22399
Project Name	Eastern VT LiDAR
State	Vermont
County	ORLEANS
Quad	DERBY LINE POINT OF ENTRY

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
NAD83(2011)	
SPCS - Vermont (4400)	
NAVD88	
GEOID12A	
Meters	

Northing	Easting	Elevation
278368.695	532629.598	347.909

Operator	SAM
Receiver Model	TRIMBLE R8 - MODEL 3
Receiver S/N	5133470976
Antenna Height	2.000 Meters

Static Session	09760892
Date	29 MAR 2015
Start Time (UTC)	1652
End Time (UTC)	1752

Point Ties: BE25 - LC63 - LC68 - MERA - NYET - NYPB - PMTL - VCAP - VTC1 - VTD7 - VTD9 - VTEB - VTHA - VTIP - VTRU - VTSA - VTSP - VTUV

RMSE Hz: 0.006
RMSE Z: 0.014

PHOTOS:





Point ID	LC68
Project No.	22399
Project Name	Eastern VT LiDAR
State	Vermont
County	ORLEANS
Quad	NEWPORT

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
NAD83(2011)	
SPCS - Vermont (4400)	
NAVD88	
GEOID12A	
Meters	

Northing	Easting	Elevation
270306.425	525106.446	275.823

Operator	SAM
Receiver Model	TRIMBLE R8 - MODEL 3
Receiver S/N	5106461066
Antenna Height	2.000 Meters

Static Session	10660890
Date	29 MAR 2015
Start Time (UTC)	1227
End Time (UTC)	2130

Point Ties: BE06 - BE23 - BE24 - BE25 - LC17 - LC19 - LC39 - LC63 - LC64 - LC65 - LC66 - LC67 - LC70 - LC71 - MERA - NYET - NYPB - PMTL - TW17 - TW18 - VCAP - VTC1 - VTD7 - VTD9 - VTEB - VTHA - VTIP - VTOX - VTRU - VTSA - VTSP

RMSE Hz: 0.004
RMSE Z: 0.011

PHOTOS:





Point ID	LC69
Project No.	22399
Project Name	Eastern VT LiDAR
State	Vermont
County	ORLEANS
Quad	IRASBURG

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
NAD83(2011)	
SPCS - Vermont (4400)	
NAVD88	
GEOID12A	
Meters	

Northing	Easting	Elevation
262971.801	518838.833	212.264

Operator	SAM
Receiver Model	TRIMBLE R8 - MODEL 3
Receiver S/N	5133470976
Antenna Height	2.000 Meters

Static Session	09760884
Date	28 MAR 2015
Start Time (UTC)	1940
End Time (UTC)	2048

Point Ties: BE14 - LC58 - LC62 - LC70 - NYET - NYPB - VCAP - VTC1 - VTD7 - VTD9 - VTEB - VTHA - VTIP - VTOX - VTRU - VTSA - VTSP - VTUV

RMSE Hz: 0.006
RMSE Z: 0.011

PHOTOS:





Point ID	LC70
Project No.	22399
Project Name	Eastern VT LiDAR
State	Vermont
County	ORLEANS
Quad	NEWPORT CENTER

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
NAD83(2011)	
SPCS - Vermont (4400)	
NAVD88	
GEOID12A	
Meters	

Northing	Easting	Elevation
268324.294	511955.634	279.712

Operator	SAM
Receiver Model	TRIMBLE R8 - MODEL 3
Receiver S/N	5135472526
Antenna Height	2.000 Meters

Static Session	25260884
Date	28 MAR 2015
Start Time (UTC)	1954
End Time (UTC)	2054

Point Ties: BE14 - BE23 - LC17 - LC39 - LC58 - LC62 - LC68 - LC69 - MERA - NYET - NYPB - PMTL - VCAP - VTC1 - VTD7 - VTD9 - VTEB - VTHA - VTIP - VTOX - VTRU - VTSA - VTSP - VTUV

RMSE Hz: 0.006
RMSE Z: 0.011

PHOTOS:





Point ID	LC71
Project No.	22399
Project Name	Eastern VT LiDAR
State	Vermont
County	ORLEANS
Quad	NORTH TROY STATION

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
NAD83(2011)	
SPCS - Vermont (4400)	
NAVD88	
GEOID12A	
Meters	

Northing	Easting	Elevation
276874.655	509064.014	183.791

Operator	SAM
Receiver Model	TRIMBLE R8 - MODEL 3
Receiver S/N	5135472526
Antenna Height	2.000 Meters

Static Session	25260891
Date	29 MAR 2015
Start Time (UTC)	1411
End Time (UTC)	1511

Point Ties: BE06 - BE23 - LC17 - LC39 - LC68 - MERA - NYET - NYPB - PMTL - TW17 - VCAP - VTC1 - VTD7 - VTD9 - VTEB - VTHA - VTIP - VTOX - VTRU - VTSA - VTSP - VTUV

RMSE Hz: 0.006
RMSE Z: 0.013

PHOTOS:





BARE EARTH POINT DATA SHEETS



Point ID	BE01
Project No.	22399
Project Name	Eastern VT LiDAR
State	Vermont
County	ADDISON
Quad	BREADLOAF

Aerial Target	
LiDAR Ground Control	
X LiDAR QC Point	
New Control	
Photo ID	
Published Control	

Coordinate System	NAD83(2011)
	SPCS - Vermont (4400)
	NAVD88
	GEOID12A
	Meters

Northing	Easting	Elevation
160106.070	463014.605	557.367

Operator	SAM
Receiver Model	TRIMBLE R8 - MODEL 3
Receiver S/N	5106461066
Antenna Height	2.000 Meters

Static Session	10660860
Date	27 MAR 2015
Start Time (UTC)	1405
End Time (UTC)	1605

Point Ties: LC01 - LC07 - NYET - NYPB - VCAP - VTC1 - VTD7 - VTD9 - VTHA - VTIP - VTOX - VTRU - VTSA

RMSE Hz: 0.007
RMSE Z: 0.016

PHOTOS:





Point ID	BE02
Project No.	22399
Project Name	Eastern VT LiDAR
State	Vermont
County	Rutland
Quad	Rochester

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
SPCS - Vermont (4400)
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
139503.024	474210.773	274.987

Operator	Kevin Chapman
Receiver Model	Trimble R8 Model 4
Receiver S/N	5329440824
Antenna Height	2.000 Meters

Static Session	08243020
Date	10-29-2014
Start Time (UTC)	14:10
End Time (UTC)	16:30

Point Ties: LC03 - LC04 - LC05 - NYET - NYIL - NYPB - VCAP - VTC1 - VTD7 - VTD9 - VTEB - VTHA - VTIP - VTOX - VTRU - VTSA - VTSP - VTUV

RMSE Hz: 0.006
RMSE Z: 0.021

PHOTOS:





Point ID	BE03
Project No.	22399
Project Name	Eastern VT LiDAR
State	Vermont
County	Orange
Quad	Warren

Aerial Target	
LiDAR Ground Control	
X LiDAR QC Point	
New Control	
Photo ID	
Published Control	

Coordinate System	
NAD83(2011)	
SPCS - Vermont (4400)	
NAVD88	
GEOID12A	
Meters	

Northing	Easting	Elevation
170566.636	479506.291	265.639

Operator	Kevin Chapman
Receiver Model	Trimble R8 Model 3
Receiver S/N	5106461066
Antenna Height	2.000 Meters

Static Session	10663031
Date	10/30/2014
Start Time (UTC)	15:55
End Time (UTC)	17:06

Point Ties: LC06 - LC08 - NYET - NYIL - TW02 - VCAP – VTOX - VTRU - VTSA - VTSP

RMSE Hz: 0.008
RMSE Z: 0.027

PHOTOS:





Point ID	BE04
Project No.	22399
Project Name	Eastern VT LiDAR
State	Vermont
County	Orange
Quad	Northfield

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
NAD83(2011)	
SPCS - Vermont (4400)	
NAVD88	
GEOID12A	
Meters	

Northing	Easting	Elevation
188449.507	482573.480	435.773

Operator	Kevin Chapman
Receiver Model	Trimble R8 Model 3
Receiver S/N	5106461066
Antenna Height	2.000 Meters

Static Session	10663040
Date (MM-DD-YYY)	10/31/2014
Start Time (UTC)	12:36
End Time (UTC)	15:49

Point Ties: BE05 – LC10 – LC11 – LC12 – LC16 – NYET – NYIL – VCAP – VTD7
VTHA – VTOX – VTRU – VTUV

RMSE Hz: 0.007
RMSE Z: 0.020

PHOTOS:





Point ID	BE05
Project No.	22399
Project Name	Eastern VT LiDAR
State	Vermont
County	Orange
Quad	Marshfield

Aerial Target	
LiDAR Ground Control	
X LiDAR QC Point	
New Control	
Photo ID	
Published Control	

Coordinate System	
NAD83(2011)	
SPCS - Vermont (4400)	
NAVD88	
GEOID12A	
Meters	

Northing	Easting	Elevation
195936.344	510728.284	436.162

Operator	Kevin Chapman
Receiver Model	Trimble R8 Model 4
Receiver S/N	5329440824
Antenna Height	2.000 Meters

Static Session	08243041
Date	10/31/2014
Start Time (UTC)	14:57
End Time (UTC)	17:05

Point Ties: BE04 – LC11 – LC15 – LC16 – NYET – NYIL – TW03 – VCAP – VTD7
VTHA – VTOX – VTRU – VTUV

RMSE Hz: 0.007
RMSE Z: 0.026

PHOTOS:





Point ID	BE06
Project No.	22399
Project Name	Eastern VT LiDAR
State	Vermont
County	Caledonia
Quad	Joes Pond

Aerial Target	
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
	NAD83(2011)
	SPCS - Vermont (4400)
	NAVD88
	GEOID12A
	Meters

Northing	Easting	Elevation
212745.603	521451.919	494.251

Operator	DI
Receiver Model	Trimble R8 Model 3
Receiver S/N	5108461884
Antenna Height	2.000 Meters

Static Session	18840890
Date	03-30-2015
Start Time (UTC)	14:16
End Time (UTC)	16:14

Point Ties: BE23 - LC17 - LC19 - LC39 - LC68 - LC71 - MERA - NYET - NYPB - PMTL - TW17 - VCAP - VTC1 - VTD7 - VTD9 - VTEB - VTHA - VTIP - VTOX - VTRU - VTSA - VTSP - VTUV

RMSE Hz: 0.006
RMSE Z: 0.011

PHOTOS:





Point ID	BE07
Project No.	22399
Project Name	Eastern VT LiDAR
State	Vermont
County	Orange
Quad	Waterbury

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
SPCS - Vermont (4400)
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
206178.949	477129.464	137.147

Operator	Kevin Chapman
Receiver Model	Trimble R8 Model 3
Receiver S/N	5106461066
Antenna Height	2.000 Meters

Static Session	10663042
Date (MM-DD-YYY)	10-31-2014
Start Time (UTC)	18:51
End Time (UTC)	20:49

Point Ties: LC14 – LC22 – LC23 – LC24 – NYET – NYIL – VCAP – VTD7
VTHA – VTOX – VTRU – VTUV

RMSE Hz: 0.007
RMSE Z: 0.015

PHOTOS:





Point ID	BE08
Project No.	22399
Project Name	EASTERN VT LIDAR
State	VERMONT
County	CHITENDEN
Quad	RICHMOND

Aerial Target	
LiDAR Ground Control	
X LiDAR QC Point	
New Control	
Photo ID	
Published Control	

Coordinate System	
NAD83(2011)	
SPCS - Vermont (4400)	
NAVD88	
GEOID12A	
Meters	

Northing	Easting	Elevation
210595.113	464130.385	97.081

Operator	ZEKE INGRAM
Receiver Model	TRIMBLE R-8, MODEL 3
Receiver S/N	5136472526
Antenna Height	2.00 METERS

Static Session	25263350
Date	12-01-2014
Start Time (UTC)	12:26
End Time (UTC)	12:58

Point Ties: LC28BS – LC29 – NYIL – TW04 – VCAP – VTC1 – VTD7 - VTD9

RMSE Hz: 0.010
RMSE Z: 0.015

PHOTOS:





Point ID	BE09
Project No.	22399
Project Name	Eastern Vermont LiDAR
State	Vermont
County	Chittenden
Quad	Juniper Island

Aerial Target	
LiDAR Ground Control	
X LiDAR QC Point	
New Control	
Photo ID	
Published Control	

Coordinate System	
NAD83(2011)	
SPCS - Vermont (4400)	
NAVD88	
GEOID12A	
Meters	

Northing	Easting	Elevation
209566.249	439099.124	68.491

Operator	Kevin Chapman
Receiver Model	Trimble R8 Model
Receiver S/N	5108461884
Antenna Height	2.0m

Static Session	18843352
Date	12/01/2014
Start Time (UTC)	15:13
End Time (UTC)	15:53

Point Ties: BE10 – LC30 – LC31BS – NYET – NYIL – NYPB – TW05 – VCAP – VTC1 – VTD7 - VTD9

RMSE Hz: 0.001
RMSE Z: 0.015

PHOTOS:





Point ID	BE10
Project No.	22399
Project Name	EASTERN VT LIDAR
State	VERMONT
County	CHITENDEN
Quad	ESSEX CENTER

Aerial Target	
LiDAR Ground Control	
X LiDAR QC Point	
New Control	
Photo ID	
Published Control	

Coordinate System	
NAD83(2011)	
SPCS - Vermont (4400)	
NAVD88	
GEOID12A	
Meters	

Northing	Easting	Elevation
222653.431	457975.193	153.757

Operator	ZEKE INGRAM
Receiver Model	TRIMBLE R-8, MODEL 3
Receiver S/N	5136472526
Antenna Height	2.00 METERS

Static Session	25263352
Date	12-01-2014
Start Time (UTC)	15:16
End Time (UTC)	16:38

Point Ties: BE09 – LC30 – LC31BS – LC35 – NYET – NYIL – NYPB – TW05 – VCAP – VTC1 – VTD7 - VTD9

RMSE Hz: 0.007
RMSE Z: 0.017

PHOTOS:





Point ID	BE11
Project No.	22399
Project Name	EASTERN VT LIDAR
State	VERMONT
County	LAMOILLE
Quad	STOWE

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
SPCS - Vermont (4400)
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
221549.400	480650.642	264.115

Operator	ZEKE INGRAM
Receiver Model	TRIMBLE R-8, MODEL 3
Receiver S/N	5136472526
Antenna Height	2.00 METERS

Static Session	25263363 / 25263370
Date	12-02-2014 / 12-03-2014
Start Time (UTC)	20:45 / 15:07
End Time (UTC)	21:01 / 16:17

Point Ties: BE14 – LC36 – LC37 – LC43 – NYET – NYIL – NYPB – TW07 – VCAP – VTC1 – VTD7
VTD9 – VTEB – VTHA – VTIP – VTOX – VTRU – VTSA - VTUV

RMSE Hz: 0.006
RMSE Z: 0.015

PHOTOS:





Point ID	BE12
Project No.	22399
Project Name	Eastern VT LiDAR
State	Vermont
County	Caledonia
Quad	Stannard

Aerial Target	
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
	NAD83(2011)
	SPCS - Vermont (4400)
	NAVD88
	GEOID12A
	Meters

Northing	Easting	Elevation
227227.244	523632.398	532.852

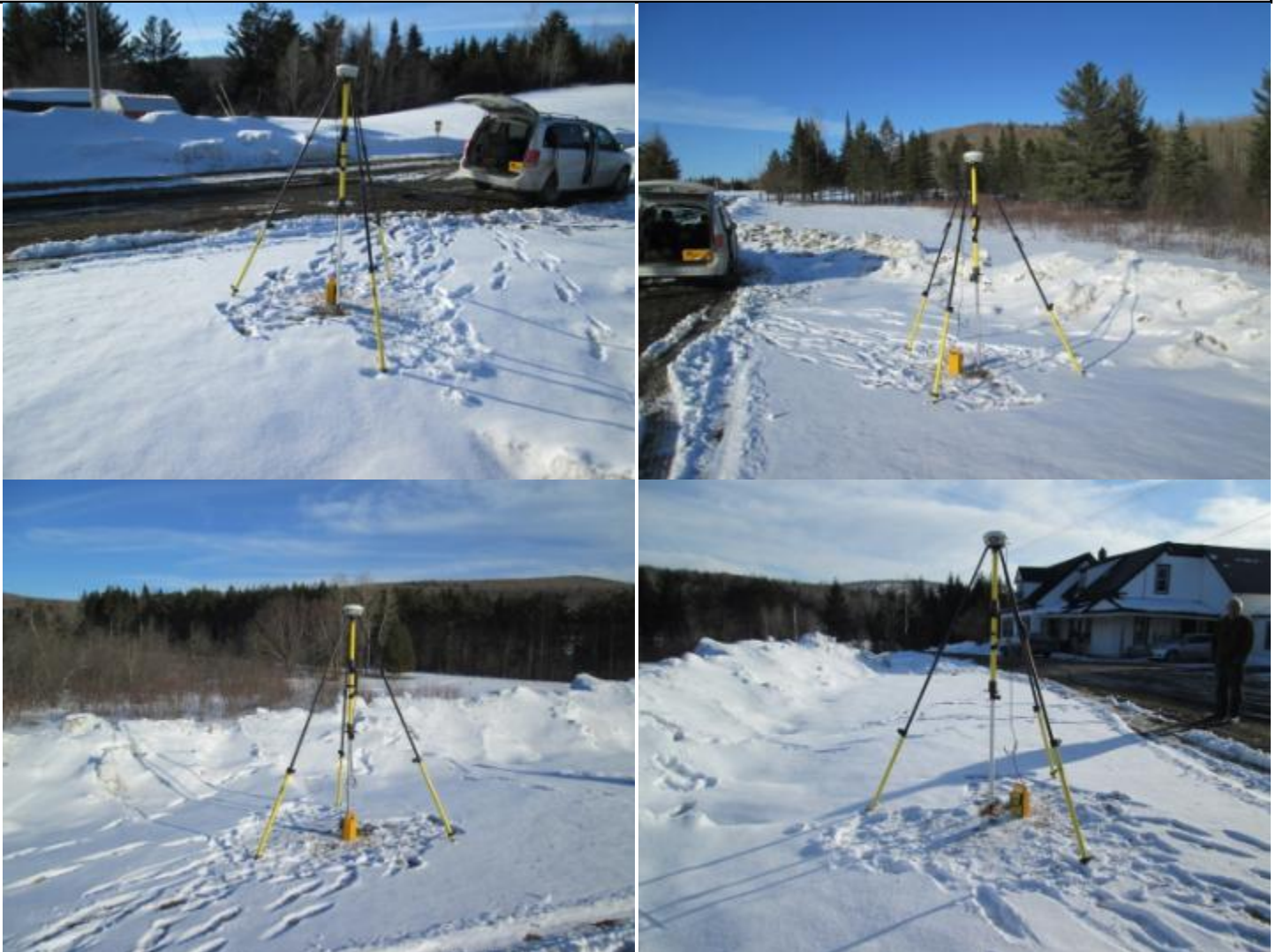
Operator	DI
Receiver Model	Trimble R8 Model 3
Receiver S/N	5046465718
Antenna Height	2.000 Meters

Static Session	57180900
Date	03-31-2015
Start Time (UTC)	19:57
End Time (UTC)	22:10

Point Ties: BE20 - LC40 - LC57 - LC60 - NYET - NYPB - TW09 - VCAP - VTC1 - VTD7 - VTEB - VTHA - VTIP - VTOX - VTRU - VTSA - VTSP - VTUV

RMSE Hz: 0.007
RMSE Z: 0.016

PHOTOS:





Point ID	BE13
Project No.	22399
Project Name	Eastern Vermont LiDAR
State	Vermont
County	Lamoille
Quad	Wolcott

Aerial Target	
LiDAR Ground Control	
X LiDAR QC Point	
New Control	
Photo ID	
Published Control	

Coordinate System	
NAD83(2011)	
SPCS - Vermont (4400)	
NAVD88	
GEOID12A	
Meters	

Northing	Easting	Elevation
226416.106	503701.988	245.836

Operator	Kevin Chapman
Receiver Model	Trimble R8 Model
Receiver S/N	5046455718
Antenna Height	2.0m

Static Session	57183371
Date	12/03/2014
Start Time (UTC)	17:44
End Time (UTC)	19:23

Point Ties: BE14 – LC18 – LC42 – LC43 – NYET – NYIL – NYPB – TW10 – VTC1 – VTD7
VTD9 – VTEB – VTHA – VTIP – VTOX – VTRU – VTSA - VTUV

RMSE Hz: 0.007
RMSE Z: 0.017

PHOTOS:





Point ID	BE14
Project No.	22399
Project Name	Eastern Vermont LiDAR
State	Vermont
County	Lamoille
Quad	Morrisville

Aerial Target	
LiDAR Ground Control	
X LiDAR QC Point	
New Control	
Photo ID	
Published Control	

Coordinate System	
NAD83(2011)	
SPCS - Vermont (4400)	
NAVD88	
GEOID12A	
Meters	

Northing	Easting	Elevation
228351.373	490765.708	198.426

Operator	Kevin Chapman
Receiver Model	Trimble R8 Model
Receiver S/N	5108461884
Antenna Height	2.0m

Static Session	18843370
Date	12/03/2014
Start Time (UTC)	15:47
End Time (UTC)	18:16

Point Ties: BE11 – BE13 – LC42 – LC43 – NYET – NYIL – NYPB – TW07 – VCAP – VTC1 – VTD7
VTD9 – VTEB – VTHA – VTIP – VTOX – VTRU – VTSA - VTUV

RMSE Hz: 0.006
RMSE Z: 0.016

PHOTOS:





Point ID	BE15
Project No.	22399
Project Name	EASTERN VT LIDAR
State	VERMONT
County	CHITTENDEN
Quad	GEORGIA PLAINS

Aerial Target	
LiDAR Ground Control	
X LiDAR QC Point	
New Control	
Photo ID	
Published Control	

Coordinate System	
NAD83(2011)	
SPCS - Vermont (4400)	
NAVD88	
GEOID12A	
Meters	

Northing	Easting	Elevation
236432.616	441315.919	30.802

Operator	ZEKE INGRAM
Receiver Model	TRIMBLE R-8, MODEL 3
Receiver S/N	5133470976
Antenna Height	2.00 METERS

Static Session	09763354
Date	12-01-2014
Start Time (UTC)	19:31
End Time (UTC)	21:04

Point Ties: LC33BS – LC46 – LC47 – NYET – NYIL – NYPB – TW12 – VCAP – VTC1 – VTD7 - VTD9

RMSE Hz: 0.007
RMSE Z: 0.025

PHOTOS:





Point ID	BE16
Project No.	22399
Project Name	Eastern Vermont LiDAR
State	Vermont
County	Franklin
Quad	Milton

Aerial Target	
LiDAR Ground Control	
X LiDAR QC Point	
New Control	
Photo ID	
Published Control	

Coordinate System	
NAD83(2011)	
SPCS - Vermont (4400)	
NAVD88	
GEOID12A	
Meters	

Northing	Easting	Elevation
247955.020	456613.377	188.258

Operator	Kevin Chapman
Receiver Model	Trimble R8 Model
Receiver S/N	5046455718
Antenna Height	2.0m

Static Session	57183361
Date	12/02/2014
Start Time (UTC)	14:09
End Time (UTC)	15:28

Point Ties: LC48 – LC49 – LC50 – NYET – NYIL – NYPB – TW11 – TW13 – VCAP – VTD7 - VTD9

RMSE Hz: 0.007
RMSE Z: 0.027

PHOTOS:





Point ID	BE17
Project No.	22399
Project Name	EASTERN VT LIDAR
State	VERMONT
County	LAMOILLE
Quad	JEFFERSONVILLE

Aerial Target	
LiDAR Ground Control	
X LiDAR QC Point	
New Control	
Photo ID	
Published Control	

Coordinate System	
NAD83(2011)	
SPCS - Vermont (4400)	
NAVD88	
GEOID12A	
Meters	

Northing	Easting	Elevation
238481.738	471196.313	146.514

Operator	ZEKE INGRAM
Receiver Model	TRIMBLE R-8, MODEL 3
Receiver S/N	5133470976
Antenna Height	2.00 METERS

Static Session	09763362
Date	12-02-2014
Start Time (UTC)	16:17
End Time (UTC)	18:08

Point Ties: LC44 – LC45 – LC50 – LC51 – NYET – NYIL – NYPB – TW11 – VCAP – VTD7 - VTD9

RMSE Hz: 0.007
RMSE Z: 0.020

PHOTOS:





Point ID	BE18
Project No.	22399
Project Name	Eastern VT LiDAR
State	Vermont
County	LAMOILE
Quad	JOHNSON

Aerial Target	
LiDAR Ground Control	
X LiDAR QC Point	
New Control	
Photo ID	
Published Control	

Coordinate System	
NAD83(2011)	
SPCS - Vermont (4400)	
NAVD88	
GEOID12A	
Meters	

Northing	Easting	Elevation
249794.514	484068.985	257.966

Operator	SAM
Receiver Model	TRIMBLE R8 - MODEL 3
Receiver S/N	5106461066
Antenna Height	2.000 Meters

Static Session	10660830
Date	24 MAR 2015
Start Time (UTC)	1650
End Time (UTC)	1732

Point Ties: BE14 - BE19 - LC52 - LC54 - NYET - NYPB - TW14 - VCAP - VTC1 - VTD7 - VTD9 - VTEB - VTHA - VTIP - VTOX - VTRU - VTSA - VTSP - VTUV

RMSE Hz: 0.006
RMSE Z: 0.010

PHOTOS:





Point ID	BE19
Project No.	22399
Project Name	Eastern VT LiDAR
State	Vermont
County	Lamoille
Quad	Eden

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
NAD83(2011)	
SPCS - Vermont (4400)	
NAVD88	
GEOID12A	
Meters	

Northing	Easting	Elevation
240743.949	491601.970	263.025

Operator	Bill Neville
Receiver Model	Leica GS15
Receiver S/N	0893
Antenna Height	2.000 Meters

Date	03-24-2015
Start Time (UTC)	1719
End Time (UTC)	1744

Point Ties: BE14 - BE18 - LC52 - LC54 - NYET - NYPB - TW14 - VTD7 - VTD9 - VTEB - VTHA - VTIP - VTOX - VTRU - VTSA - VTSP - VTUV

RMSE Hz: 0.006
RMSE Z: 0.009

PHOTOS:





Point ID	BE20
Project No.	22399
Project Name	Eastern VT LiDAR
State	Vermont
County	ORLEANS
Quad	ALBANY

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
NAD83(2011)	
SPCS - Vermont (4400)	
NAVD88	
GEOID12A	
Meters	

Northing	Easting	Elevation
239346.004	509239.711	378.996

Operator	SAM
Receiver Model	TRIMBLE R8 - MODEL 3
Receiver S/N	5133470976
Antenna Height	2.000 Meters

Static Session	09760900
Date	31 MAR 2015
Start Time (UTC)	1908
End Time (UTC)	2008

Point Ties: BE12 - LC57 - LC60 - NYET - NYPB - TW15 - VCAP - VTC1 - VTD9 - VTEB - VTIP - VTOX - VTRU - VTSA - VTSP

RMSE Hz: 0.006
RMSE Z: 0.009

PHOTOS:





Point ID	BE21
Project No.	22399
Project Name	Eastern VT LiDAR
State	Vermont
County	Orange
Quad	Mount Worchester

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
NAD83(2011)	
SPCS - Vermont (4400)	
NAVD88	
GEOID12A	
Meters	

Northing	Easting	Elevation
210944.363	495652.864	247.864

Operator	Kevin Chapman
Receiver Model	Trimble R8 Model 4
Receiver S/N	5329440824
Antenna Height	2.000 Meters

Static Session	08243091
Date	11-05-2014
Start Time (UTC)	15:40
End Time (UTC)	19:17

Point Ties: LC20 – LC20BS – LC21 – LC38 – NYET – NYIL – NYPB – VCAP – VTC1 – VTD7
VTD9 – VTHA – VTOX – VTRU – VTSA - VTUV

RMSE Hz: 0.006
RMSE Z: 0.017

PHOTOS:





Point ID	BE22
Project No.	22399
Project Name	Eastern VT LiDAR
State	Vermont
County	ORLEANS
Quad	IRASBURG

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
NAD83(2011)	
SPCS - Vermont (4400)	
NAVD88	
GEOID12A	
Meters	

Northing	Easting	Elevation
252493.949	514041.099	263.292

Operator	SAM
Receiver Model	TRIMBLE R8 - MODEL 3
Receiver S/N	5133470976
Antenna Height	2.000 Meters

Static Session	09760881
Date	28 MAR 2015
Start Time (UTC)	1608
End Time (UTC)	1702

Point Ties: BE14 - LC39 - LC41 - LC61 - LC62 - NYET - NYPB - TW16 - VCAP - VTC1 - VTD7 - VTD9 - VTEB - VTHA - VTIP - VTOX - VTRU - VTSA - VTSP – VTUV

RMSE Hz: 0.006
RMSE Z: 0.009

PHOTOS:





Point ID	BE23
Project No.	22399
Project Name	Eastern VT LiDAR
State	Vermont
County	ORLEANS
Quad	NOTH TROY STATION

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
NAD83(2011)	
SPCS - Vermont (4400)	
NAVD88	
GEOID12A	
Meters	

Northing	Easting	Elevation
276828.383	509092.056	185.343

Operator	SAM
Receiver Model	TRIMBLE R8 - MODEL 3
Receiver S/N	5133470976
Antenna Height	2.000 Meters

Static Session	09760890
Date	29 MAR 2015
Start Time (UTC)	1307
End Time (UTC)	1433

Point Ties: BE06 - LC17 - LC39 - LC68 - LC70 - LC71 - MERA - NYET - NYPB - PMTL - VCAP - VTC1 - VTD7 - VTD9 - VTEB - VTHA - VTIP - VTOX - VTRU - VTSA - VTSP - VTUV

RMSE Hz: 0.006
RMSE Z: 0.013

PHOTOS:





Point ID	BE24
Project No.	22399
Project Name	Eastern VT LiDAR
State	Vermont
County	Orleans
Quad	Island Pond

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
NAD83(2011)	
SPCS - Vermont (4400)	
NAVD88	
GEOID12A	
Meters	

Northing	Easting	Elevation
258742.640	541605.819	354.074

Operator	DI
Receiver Model	Trimble R8 Model 3
Receiver S/N	5106461067
Antenna Height	2.000 Meters

Static Session	10670892
Date	03-30-2015
Start Time (UTC)	18:22
End Time (UTC)	20:54

Point Ties: BE25 - LC63 - LC64 - LC65 - LC66 - LC68 - MERA - NYET - NYPB - PMTL - TW18 - VCAP - VTC1 - VTD7 - VTD9 - VTEB - VTHA - VTIP - VTOX - VTRU - VTSA - VTSP - VTUV

RMSE Hz: 0.006
RMSE Z: 0.010

PHOTOS:





Point ID	BE25
Project No.	22399
Project Name	Eastern VT LiDAR
State	Vermont
County	ORLEANS
Quad	WEST OF NORTON POINT OF ENTRY

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
NAD83(2011)	
SPCS - Vermont (4400)	
NAVD88	
GEOID12A	
Meters	

Northing	Easting	Elevation
277352.581	542575.726	419.004

Operator	SAM
Receiver Model	TRIMBLE R8 - MODEL 3
Receiver S/N	5135472526
Antenna Height	2.000 Meters

Static Session	25260893
Date	29 MAR 2015
Start Time (UTC)	1722
End Time (UTC)	1705

Point Ties: BE24 - LC63 - LC64 - LC65 - LC66 - LC67 - LC68 - MERA - NYET - NYPB - PMTL - TW18 - VCAP - VTC1 - VTD7 - VTD9 - VTEB - VTHA - VTIP - VTOX - VTRU - VTSA - VTSP - VTUV

RMSE Hz: 0.006
RMSE Z: 0.012

PHOTOS:





FORESTED POINT DATA SHEETS



Point ID	FO01
Project No.	23299
Project Name	EASTERN VERMONT
State	VERMONT
County	RUTLAND
Quad	ROCHESTOR

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
SPCS - Vermont (4400)
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
139524.638	474141.576	282.369

Operator	STEVE MILLER
Instrument Model	Trimble M3 2"
Date (MM-DD-YYYY)	03-28-2015
Occupy PT	BE02
Back Sight PT	FOO1NEWBS
RMSE Hz	0.010
RMSE Z	0.020

PHOTOS:





Point ID	FO02
Project No.	23299
Project Name	EASTERN VERMONT
State	VERMONT
County	ROCHESTOR
Quad	WINDSOR

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
SPCS - Vermont (4400)
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
141648.566	478884.825	240.231

Operator	STEVE MILLER
Instrument Model	Trimble M3 2"
Date (MM-DD-YYYY)	03-28-2015
Occupy PT	FO2TP
Back Sight PT	LC04
RMSE Hz	0.010
RMSE Z	0.020

PHOTOS:





Point ID	FO03
Project No.	23299
Project Name	EASTERN VERMONT
State	VERMONT
County	ROCHESTER
Quad	WINDSOR

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
SPCS - Vermont (4400)
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
147152.492	476710.991	261.021

Operator	STEVE MILLER
Instrument Model	Trimble M3 2"
Date (MM-DD-YYYY)	03-28-2015
Occupy PT	TPFO3
Back Sight PT	LC02
RMSE Hz	0.010
RMSE Z	0.020

PHOTOS:





Point ID	FO04
Project No.	23299
Project Name	EASTERN VERMONT
State	VERMONT
County	ADDISON
Quad	BREADLOAF

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
SPCS - Vermont (4400)
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
160116.383	463049.624	559.027

Operator	STEVE MILLER
Instrument Model	Trimble M3 2"
Date (MM-DD-YYYY)	03-28-2015
Occupy PT	BE01A
Back Sight PT	LCO1A
RMSE Hz	0.010
RMSE Z	0.020

PHOTOS:





Point ID	FO05
Project No.	23299
Project Name	EASTERN VERMONT
State	VERMONT
County	ADDISON
Quad	HANCOCK

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
SPCS - Vermont (4400)
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
164524.568	472518.497	299.620

Operator	STEVE MILLER
Instrument Model	Trimble M3 2"
Date (MM-DD-YYYY)	03-28-2015
Occupy PT	F005TP
Back Sight PT	FO05BS
RMSE Hz	0.010
RMSE Z	0.020

PHOTOS:





Point ID	FO06
Project No.	23299
Project Name	EASTERN VERMONT
State	VERMONT
County	ORANGE
Quad	RANDOLPH

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
SPCS - Vermont (4400)
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
158457.159	486646.872	199.055

Operator	STEVE MILLER
Instrument Model	Trimble M3 2"
Date (MM-DD-YYYY)	03-28-2015
Occupy PT	LC07
Back Sight PT	FO06BS
RMSE Hz	0.010
RMSE Z	0.020

PHOTOS:





Point ID	FO07
Project No.	23299
Project Name	EASTERN VERMONT
State	VERMONT
County	WASHINGTON
Quad	WASHINGTON

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
SPCS - Vermont (4400)
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
179428.861	505141.627	391.312

Operator	ZEKE INGRAM
Instrument Model	Trimble M3 2"
Date (MM-DD-YYYY)	04-18-2015
Occupy PT	TPFO7
Back Sight PT	LC10
RMSE Hz	0.010
RMSE Z	0.020

PHOTOS:





Point ID	FO08
Project No.	23299
Project Name	EASTERN VERMONT
State	VERMONT
County	WASHINGTON
Quad	MONTPELIER

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
SPCS - Vermont (4400)
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
195006.054	492315.359	158.933

Operator	ZEKE INGRAM
Instrument Model	Trimble M3 2"
Date (MM-DD-YYYY)	04-18-2015
Occupy PT	TPFO8
Back Sight PT	BSFO8
RMSE Hz	0.010
RMSE Z	0.020

PHOTOS:





Point ID	FO09
Project No.	23299
Project Name	EASTERN VERMONT
State	VERMONT
County	WASHINGTON
Quad	NORTHFIELD

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
SPCS - Vermont (4400)
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
188559.181	482578.486	430.640

Operator	ZEKE INGRAM
Instrument Model	Trimble M3 2"
Date (MM-DD-YYYY)	04-18-2015
Occupy PT	TPFO9
Back Sight PT	BE04
RMSE Hz	0.010
RMSE Z	0.020

PHOTOS:





Point ID	FO10
Project No.	23299
Project Name	EASTERN VERMONT
State	VERMONT
County	WASHINGTON
Quad	WATERBURY

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
SPCS - Vermont (4400)
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
205443.668	478571.774	135.750

Operator	STEVE MILLER
Instrument Model	Trimble M3 2"
Date (MM-DD-YYYY)	03-26-2015
Occupy PT	TPFO10
Back Sight PT	LC23
RMSE Hz	0.010
RMSE Z	0.020

PHOTOS:





Point ID	FO11
Project No.	23299
Project Name	EASTERN VERMONT
State	VERMONT
County	WASHINGTON
Quad	MARSHFIELD

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
SPCS - Vermont (4400)
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
195960.107	510718.618	434.891

Operator	STEVE MILLER
Instrument Model	Trimble M3 2"
Date (MM-DD-YYYY)	03-26-2015
Occupy PT	FO11TP
Back Sight PT	BSFO11
RMSE Hz	0.010
RMSE Z	0.020

PHOTOS:





Point ID	FO12
Project No.	23299
Project Name	EASTERN VERMONT
State	VERMONT
County	WASHINGTON
Quad	WOODBURY

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
SPCS - Vermont (4400)
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
210342.336	506754.866	286.919

Operator	ZEKE INGRAM
Instrument Model	Trimble M3 2"
Date (MM-DD-YYYY)	04-18-2015
Occupy PT	TPFO12
Back Sight PT	BSFO12
RMSE Hz	0.010
RMSE Z	0.020

PHOTOS:





Point ID	FO13
Project No.	23299
Project Name	EASTERN VERMONT
State	VERMONT
County	WASHINGTON
Quad	MOUNT WORCESTOR

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
SPCS - Vermont (4400)
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
210992.407	495573.356	248.294

Operator	ZEKE INGRAM
Instrument Model	Trimble M3 2"
Date (MM-DD-YYYY)	04-18-2015
Occupy PT	BE21
Back Sight PT	LC21
RMSE Hz	0.010
RMSE Z	0.020

PHOTOS:





Point ID	FO14
Project No.	23299
Project Name	EASTERN VERMONT
State	VERMONT
County	LAMOILLE
Quad	STOWE

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
SPCS - Vermont (4400)
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
221484.369	480598.797	262.003

Operator	ZEKE INGRAM
Instrument Model	Trimble M3 2"
Date (MM-DD-YYYY)	04-18-2015
Occupy PT	BE11
Back Sight PT	LC37
RMSE Hz	0.010
RMSE Z	0.020

PHOTOS:





Point ID	FO15
Project No.	23299
Project Name	EASTERN VERMONT
State	VERMONT
County	CHITTENDEN
Quad	RICHMOND

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
SPCS - Vermont (4400)
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
209913.799	464396.991	95.544

Operator	STEVE MILLER
Instrument Model	Trimble M3 2"
Date (MM-DD-YYYY)	03-26-2015
Occupy PT	TPFO15
Back Sight PT	LC24
RMSE Hz	0.010
RMSE Z	0.020

PHOTOS:





Point ID	FO16
Project No.	23299
Project Name	EASTERN VERMONT
State	VERMONT
County	CHITTENDEN
Quad	JUNIPER ISLAND

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
SPCS - Vermont (4400)
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
199393.716	440743.199	79.065

Operator	STEVE MILLER
Instrument Model	Trimble M3 2"
Date (MM-DD-YYYY)	03-26-2015
Occupy PT	LC29BS
Back Sight PT	LC29
RMSE Hz	0.010
RMSE Z	0.020

PHOTOS:





Point ID	FO17
Project No.	23299
Project Name	EASTERN VERMONT
State	VERMONT
County	CHITTENDEN
Quad	JUNIPER ISLAND

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
SPCS - Vermont (4400)
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
209504.113	439019.800	63.675

Operator	STEVE MILLER
Instrument Model	Trimble M3 2"
Date (MM-DD-YYYY)	03-26-2015
Occupy PT	TPFO17
Back Sight PT	BSF017
RMSE Hz	0.010
RMSE Z	0.020

PHOTOS:





Point ID	FO18
Project No.	23299
Project Name	EASTERN VERMONT
State	VERMONT
County	CHITTENDEN
Quad	ESSEX CENTER

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
SPCS - Vermont (4400)
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
222663.480	458006.937	153.092

Operator	ZEKE INGRAM
Instrument Model	Trimble M3 2"
Date (MM-DD-YYYY)	04-18-2015
Occupy PT	BE10
Back Sight PT	LC35
RMSE Hz	0.010
RMSE Z	0.020

PHOTOS:





Point ID	FO19
Project No.	23299
Project Name	EASTERN VERMONT
State	VERMONT
County	CHITTENDEN
Quad	GEORGIA PLAINS

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
SPCS - Vermont (4400)
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
236464.745	441335.325	29.400

Operator	ZEKE INGRAM
Instrument Model	Trimble M3 2"
Date (MM-DD-YYYY)	04-18-2015
Occupy PT	BE15
Back Sight PT	LC47
RMSE Hz	0.010
RMSE Z	0.020

PHOTOS:





Point ID	FO20
Project No.	23299
Project Name	EASTERN VERMONT
State	VERMONT
County	CHITTENDEN
Quad	COLCHESTER POINT

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
SPCS - Vermont (4400)
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
228503.617	436686.962	34.982

Operator	ZEKE INGRAM
Instrument Model	Trimble M3 2"
Date (MM-DD-YYYY)	04-18--2015
Occupy PT	LC33BS
Back Sight PT	LC33
RMSE Hz	0.010
RMSE Z	0.020

PHOTOS:





Point ID	FO21
Project No.	23299
Project Name	EASTERN VERMONT
State	VERMONT
County	FRANKLIN
Quad	MILTON

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
SPCS - Vermont (4400)
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
247941.264	456602.869	186.168

Operator	ZEKE INGRAM
Instrument Model	Trimble M3 2"
Date (MM-DD-YYYY)	04-18-2015
Occupy PT	BE16
Back Sight PT	TW13
RMSE Hz	0.010
RMSE Z	0.020

PHOTOS:





Point ID	FO22
Project No.	23299
Project Name	EASTERN VERMONT
State	VERMONT
County	LAMOILLE
Quad	JOHNSON

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
SPCS - Vermont (4400)
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
249627.735	483973.481	265.128

Operator	ZEKE INGRAM
Instrument Model	Trimble M3 2"
Date (MM-DD-YYYY)	04-18-2015
Occupy PT	LC52
Back Sight PT	BE18
RMSE Hz	0.010
RMSE Z	0.020

PHOTOS:





Point ID	FO23
Project No.	23299
Project Name	EASTERN VERMONT
State	VERMONT
County	LAMOILLE
Quad	JEFFERSONVILLE

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
SPCS - Vermont (4400)
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
238444.753	471186.207	146.842

Operator	ZEKE INGRAM
Instrument Model	Trimble M3 2"
Date (MM-DD-YYYY)	04-18-2015
Occupy PT	BE17
Back Sight PT	LC51
RMSE Hz	0.010
RMSE Z	0.020

PHOTOS:





Point ID	FO24
Project No.	23299
Project Name	EASTERN VERMONT
State	VERMONT
County	LAMOILLE
Quad	EDEN

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
SPCS - Vermont (4400)
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
240655.840	491583.119	258.751

Operator	ZEKE INGRAM
Instrument Model	Trimble M3 2"
Date (MM-DD-YYYY)	04-18-2015
Occupy PT	LC54
Back Sight PT	BE19
RMSE Hz	0.010
RMSE Z	0.020

PHOTOS:





Point ID	FO25
Project No.	23299
Project Name	EASTERN VERMONT
State	VERMONT
County	LAMOILLE
Quad	MORRISVILLE

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
SPCS - Vermont (4400)
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
228201.212	490961.607	209.990

Operator	ZEKE INGRAM
Instrument Model	Trimble M3 2"
Date (MM-DD-YYYY)	04-18-2015
Occupy PT	TPFO26
Back Sight PT	BSFO26
RMSE Hz	0.010
RMSE Z	0.020

PHOTOS:





Point ID	FO26
Project No.	23299
Project Name	EASTERN VERMONT
State	VERMONT
County	LAMOILLE
Quad	VOLCOTT

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
SPCS - Vermont (4400)
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
226325.787	503790.538	245.002

Operator	ZEKE INGRAM
Instrument Model	Trimble M3 2"
Date (MM-DD-YYYY)	04-18-2015
Occupy PT	TPFO26
Back Sight PT	BSFO26
RMSE Hz	0.010
RMSE Z	0.020

PHOTOS:





Point ID	FO27
Project No.	23299
Project Name	EASTERN VERMONT
State	VERMONT
County	WASHINGTON
Quad	CASPIAN LAKE

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
SPCS - Vermont (4400)
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
225244.754	516864.478	352.336

Operator	STEVE MILLER
Instrument Model	Trimble M3 2"
Date (MM-DD-YYYY)	03-31-2015
Occupy PT	TPFO27
Back Sight PT	BSFO27
RMSE Hz	0.010
RMSE Z	0.020

PHOTOS:





Point ID	FO28
Project No.	23299
Project Name	EASTERN VERMONT
State	VERMONT
County	ALBANY
Quad	ORLEANS

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
SPCS - Vermont (4400)
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
239177.169	509544.121	371.347

Operator	ZEKE INGRAM
Instrument Model	Trimble M3 2"
Date (MM-DD-YYYY)	04-18-2015
Occupy PT	TW15
Back Sight PT	BSFO28
RMSE Hz	0.010
RMSE Z	0.020

PHOTOS:





Point ID	FO29
Project No.	23299
Project Name	EASTERN VERMONT
State	VERMONT
County	ORLEANS
Quad	IRASBURG

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
SPCS - Vermont (4400)
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
252647.181	514136.044	268.591

Operator	STEVE MILLER
Instrument Model	Trimble M3 2"
Date (MM-DD-YYYY)	03-31-2015
Occupy PT	LC61
Back Sight PT	TW16
RMSE Hz	0.010
RMSE Z	0.020

PHOTOS:





Point ID	FO30
Project No.	23299
Project Name	EASTERN VERMONT
State	VERMONT
County	ORLEANS
Quad	ISLAND POND

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
SPCS - Vermont (4400)
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
258737.978	541660.046	352.534

Operator	STEVE MILLER
Instrument Model	Trimble M3 2"
Date (MM-DD-YYYY)	03-31-2015
Occupy PT	BE24
Back Sight PT	LC64
RMSE Hz	0.010
RMSE Z	0.020

PHOTOS:





Point ID	FO31
Project No.	23299
Project Name	EASTERN VERMONT
State	VERMONT
County	ORLEANS
Quad	WEST OF NORTON POINT OF ENTRY

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
NAD83(2011)	
SPCS - Vermont (4400)	
NAVD88	
GEOID12A	
Meters	

Northing	Easting	Elevation
277397.934	542586.069	415.085

Operator	STEVE MILLER
Instrument Model	Trimble M3 2"
Date (MM-DD-YYYY)	03-31-2015
Occupy PT	LC66
Back Sight PT	BE25
RMSE Hz	0.010
RMSE Z	0.020

PHOTOS:





Point ID	FO32
Project No.	23299
Project Name	EASTERN VERMONT
State	VERMONT
County	ORLEANS
Quad	North Troy Station

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
SPCS - Vermont (4400)
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
276764.513	509096.593	176.233

Operator	STEVE MILLER
Instrument Model	Trimble M3 2"
Date (MM-DD-YYYY)	03-31-2015
Occupy PT	BE23
Back Sight PT	LC71
RMSE Hz	0.010
RMSE Z	0.020

PHOTOS:





Point ID	FO33
Project No.	23299
Project Name	EASTERN VERMONT
State	VERMONT
County	ORLEANS
Quad	NEWPORT

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
SPCS - Vermont (4400)
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
270234.972	525189.641	275.462

Operator	STEVE MILLER
Instrument Model	Trimble M3 2"
Date (MM-DD-YYYY)	03-31-2015
Occupy PT	FO33TP
Back Sight PT	LC68
RMSE Hz	0.010
RMSE Z	0.020

PHOTOS:





Point ID	FO32
Project No.	23299
Project Name	EASTERN VERMONT
State	VERMONT
County	ORLEANS
Quad	NORTH TROY STATION

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
SPCS - Vermont (4400)
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
247760.108	500623.475	379.972

Operator	STEVE MILLER
Instrument Model	Trimble M3 2"
Date (MM-DD-YYYY)	03-31-2015
Occupy PT	BE23
Back Sight PT	LC71
RMSE Hz	0.010
RMSE Z	0.020

PHOTOS:





Point ID	FO35
Project No.	23299
Project Name	EASTERN VERMONT
State	VERMONT
County	CHITTENDEN
Quad	MT. ELLEN

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
SPCS - Vermont (4400)
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
191078.861	463834.978	456.107

Operator	STEVE MILLER
Instrument Model	Trimble M3 2"
Date (MM-DD-YYYY)	03-26-2015
Occupy PT	TPFO35
Back Sight PT	BSFO35
RMSE Hz	0.010
RMSE Z	0.020

PHOTOS:





Point ID	FO36
Project No.	23299
Project Name	EASTERN VERMONT
State	VERMONT
County	CHITTENDEN
Quad	MT. PHILO

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
SPCS - Vermont (4400)
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
203338.364	449575.222	106.754

Operator	STEVE MILLER
Instrument Model	Trimble M3 2"
Date (MM-DD-YYYY)	03-26-2015
Occupy PT	TPFO36
Back Sight PT	LC28BS
RMSE Hz	0.010
RMSE Z	0.020

PHOTOS:





Point ID	FO37
Project No.	23299
Project Name	EASTERN VERMONT
State	VERMONT
County	WASHINGTON
Quad	WARETBURY

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
SPCS - Vermont (4400)
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
215442.518	450929.941	144.279

Operator	STEVE MILLER
Instrument Model	Trimble M3 2"
Date (MM-DD-YYYY)	03-26-2015
Occupy PT	LC31
Back Sight PT	BSLC31
RMSE Hz	0.010
RMSE Z	0.020

PHOTOS:





Point ID	FO38
Project No.	23299
Project Name	EASTERN VERMONT
State	VERMONT
County	ADDISON
Quad	BROOKFIELD

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
SPCS - Vermont (4400)
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
173887.319	491466.003	490.971

Operator	STEVE MILLER
Instrument Model	Trimble M3 2"
Date (MM-DD-YYYY)	03-28-2015
Occupy PT	FO38TP
Back Sight PT	FO38BS
RMSE Hz	0.010
RMSE Z	0.020

PHOTOS:





Point ID	FO39
Project No.	23299
Project Name	EASTERN VERMONT
State	VERMONT
County	WASHINGTON
Quad	MARSHFIELD

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
SPCS - Vermont (4400)
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
208583.776	513007.493	275.563

Operator	STEVE MILLER
Instrument Model	Trimble M3 2"
Date (MM-DD-YYYY)	03-26-2015
Occupy PT	FO39TP
Back Sight PT	BSLC18
RMSE Hz	0.010
RMSE Z	0.020

PHOTOS:





Point ID	FO40
Project No.	23299
Project Name	EASTERN VERMONT
State	VERMONT
County	WASHINGTON
Quad	JOES POND

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
SPCS - Vermont (4400)
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
212710.429	521437.859	496.365

Operator	STEVE MILLER
Instrument Model	Trimble M3 2"
Date (MM-DD-YYYY)	03-31-2015
Occupy PT	BE06
Back Sight PT	LC19
RMSE Hz	0.010
RMSE Z	0.020

PHOTOS:





TALL WEEDS POINT DATA SHEETS



Point ID	TW01
Project No.	22399
Project Name	Eastern VT LiDAR
State	Vermont
County	ROCHESTOR
Quad	WINDSOR

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	NAD83(2011)
	SPCS - Vermont (4400)
	NAVD88
	GEOID12A
	Meters

Northing	Easting	Elevation
147632.684	476469.094	239.205

Operator	SAM
Receiver Model	Trimble R8 – Model 3
Receiver S/N	5106461066
Antenna Height	2.000 Meters

Static Session	10660861
Date	27 MAR 2015
Start Time (UTC)	1452
End Time (UTC)	1746

Point Ties: LC02 - NYET - NYPB - VCAP - VTC1 - VTD7 - VTD9 - VTEB - VTHA - VTIP - VTOX - VTRU - VTSA - VTSP - VTUV

RMSE Hz: 0.007
RMSE Z: 0.019

PHOTOS:





Point ID	TW02
Project No.	22399
Project Name	Eastern VT LiDAR
State	Vermont
County	Orange
Quad	Roxbury

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
NAD83(2011)	
SPCS - Vermont (4400)	
NAVD88	
GEOID12A	
Meters	

Northing	Easting	Elevation
171724.027	480538.508	274.292

Operator	Kevin Chapman
Receiver Model	Trimble R8 Model 4
Receiver S/N	5329440824
Antenna Height	2.000 Meters

Static Session	08243031
Date	10/30/14
Start Time (UTC)	16:06
End Time (UTC)	17:00

Point Ties: BE03 – LC06 – LC08 – NYET – NYIL – VCAP
VTOX – VTRU – VTSP

RMSE Hz: 0.008
RMSE Z: 0.027

PHOTOS:





Point ID	TW03
Project No.	22399
Project Name	Eastern VT LiDAR
State	Vermont
County	Orange
Quad	Montpelier

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
NAD83(2011)	
SPCS - Vermont (4400)	
NAVD88	
GEOID12A	
Meters	

Northing	Easting	Elevation
195481.582	491019.408	155.235

Operator	Kevin Chapman
Receiver Model	Trimble R8 Model 3
Receiver S/N	5106461066
Antenna Height	2.000 Meters

Static Session	10663041
Date	10-31-2014
Start Time (UTC)	16:36
End Time (UTC)	18:16

Point Ties: BE05 – LC13 – LC14 – LC15 – LC23 – NYET – NYIL – VCAP – VTD7
VTHA – VTOX – VTRU – VTUV

RMSE Hz: 0.007
RMSE Z: 0.020

PHOTOS:





Point ID	TW04
Project No.	22399
Project Name	EASTERN VT LIDAR
State	VERMONT
County	CHITENDEN
Quad	RICHMOND

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
NAD83(2011)	
SPCS - Vermont (4400)	
NAVD88	
GEOID12A	
Meters	

Northing	Easting	Elevation
210672.531	464184.089	97.031

Operator	ZEKE INGRAM
Receiver Model	TRIMBLE R-8, MODEL 3
Receiver S/N	5133470976
Antenna Height	2.00 METERS

Static Session	09763350
Date	12-01-2014
Start Time (UTC)	12:32
End Time (UTC)	14:06

Point Ties: BE08 – LC28BS – LC29 – LC29BS – LC31 – NYET – NYIL – NYPB
VCAP – VTC1 – VTD7 - VTD9

RMSE Hz: 0.007
RMSE Z: 0.014

PHOTOS:





Point ID	TW05
Project No.	22399
Project Name	Eastern Vermont LiDAR
State	Vermont
County	Chittenden
Quad	Juniper Island

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
NAD83(2011)	
SPCS - Vermont (4400)	
NAVD88	
GEOID12A	
Meters	

Northing	Easting	Elevation
209546.263	439194.558	72.797

Operator	Kevin Chapman
Receiver Model	Trimble R8 Model 3
Receiver S/N	5046455718
Antenna Height	2.0m

Static Session	57183352
Date	12/01/2014
Start Time (UTC)	15:38
End Time (UTC)	17:15

Point Ties: BE09 – BE10 – LC31BS – LC32 – LC35 – NYET – NYIL – NYPB – TW06
VCAP – VTC1 – VTD7 - VTD9

RMSE Hz: 0.007
RMSE Z: 0.015

PHOTOS:





Point ID	TW06
Project No.	22399
Project Name	EASTERN VT LIDAR
State	VERMONT
County	CHITENDEN
Quad	ESSEX CENTER

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
SPCS - Vermont (4400)
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
222654.250	457811.614	153.639

Operator	ZEKE INGRAM
Receiver Model	TRIMBLE R-8, MODEL 3
Receiver S/N	5136472526
Antenna Height	2.00 METERS

Static Session	25263353
Date	12-01-2014
Start Time (UTC)	16:48
End Time (UTC)	18:15

Point Ties: BE32 – LC33 – LC34 – LC35 – NYET – NYIL – NYPB – TW05
VCAP – VTC1 – VTD7 - VTD9

RMSE Hz: 0.007
RMSE Z: 0.017

PHOTOS:





Point ID	TW07
Project No.	22399
Project Name	Eastern Vermont LiDAR
State	Vermont
County	Lamoille
Quad	Stowe

Aerial Target	
LiDAR Ground Control	
X LiDAR QC Point	
New Control	
Photo ID	
Published Control	

Coordinate System	
NAD83(2011)	
SPCS - Vermont (4400)	
NAVD88	
GEOID12A	
Meters	

Northing	Easting	Elevation
221464.779	480820.105	262.879

Operator	Kevin Chapman
Receiver Model	Trimble R8 Model 3
Receiver S/N	5108461884 / 5046455718
Antenna Height	2.0 m

Static Session	18843363 / 57183370
Date	12-02-2014 / 12-03-2014
Start Time (UTC)	19:57 / 15:06
End Time (UTC)	20:28 / 16:18

Point Ties: BE11 - BE14 – LC36 – LC37 – LC43 – NYET – NYIL – NYPB – VCAP – VTC1 – VTD7
VTD9 – VTEB – VTHA – VTIP – VTOX – VTRU – VTSA - VTUV

RMSE Hz: 0.006
RMSE Z: 0.015

PHOTOS:





Point ID	TW08
Project No.	23299
Project Name	EASTERN VERMONT
State	VERMONT
County	WASHINGTON
Quad	MARSHFIELD

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
SPCS - Vermont (4400)
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
208590.723	513141.430	270.294

Operator	STEVE MILLER
Instrument Model	Trimble M3 2"
Date	03-26-2015
Occupy PT	FO39TP
Back Sight PT	BSLC18
RMSE Hz	0.010
RMSE Z	0.020

PHOTOS:





Point ID	TW09
Project No.	22399
Project Name	Eastern VT LiDAR
State	Vermont
County	Caledonia
Quad	Stannard

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
NAD83(2011)	
SPCS - Vermont (4400)	
NAVD88	
GEOID12A	
Meters	

Northing	Easting	Elevation
227284.427	523671.592	533.086

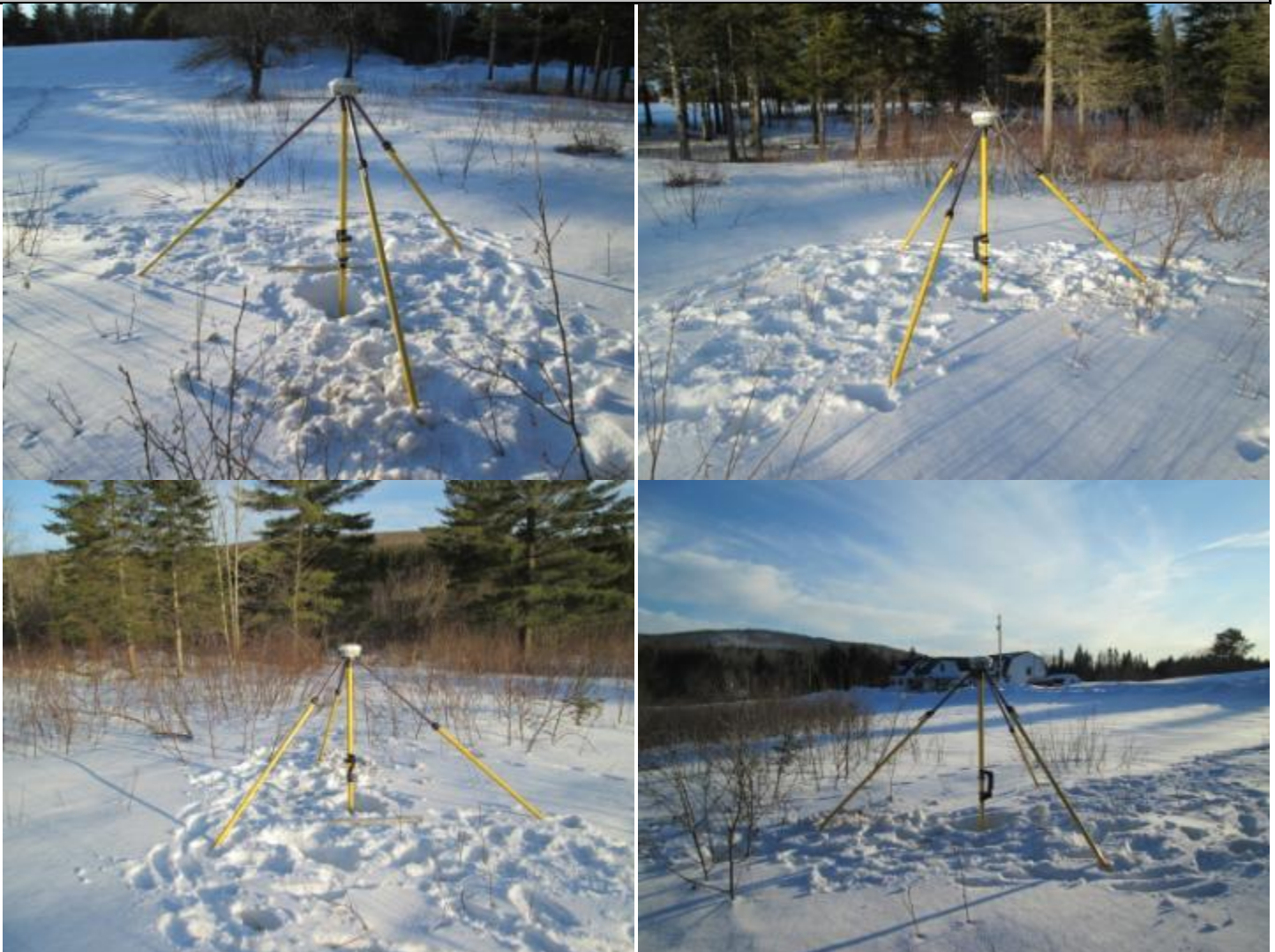
Operator	DI
Receiver Model	Trimble R8 Model 3
Receiver S/N	5108461884
Antenna Height	2.000 Meters

Static Session	18840900
Date	03312015
Start Time (UTC)	21:08
End Time (UTC)	22:24

Point Ties: BE12 - LC40 - LC60 - NYET - NYPB - VCAP - VTC1 - VTD7 - VTEB - VTHA - VTIP - VTOX - VTRU - VTSA - VTSP - VTUV

RMSE Hz: 0.007
RMSE Z: 0.009

PHOTOS:





Point ID	TW10
Project No.	22399
Project Name	Eastern Vermont LiDAR
State	Vermont
County	Lamoille
Quad	Wolcott

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
NAD83(2011)	
SPCS - Vermont (4400)	
NAVD88	
GEOID12A	
Meters	

Northing	Easting	Elevation
226759.969	503398.050	210.176

Operator	Kevin Chapman
Receiver Model	Trimble R8 Model 4
Receiver S/N	5108461884
Antenna Height	2.0m

Static Session	18843371
Date	12/03/2014
Start Time (UTC)	18:44
End Time (UTC)	19:38

Point Ties: BE13 – LC18 – LC42 – NYET – NYIL – NYPB – VCAP – VTC1
VTD9 – VTEB – VTHA – VTIP – VTOX – VTRU – VTSA - VTUV

RMSE Hz: 0.007
RMSE Z: 0.017

PHOTOS:





Point ID	TW11
Project No.	22399
Project Name	Eastern Vermont LiDAR
State	Vermont
County	Lamoille
Quad	Jeffersonville

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
SPCS - Vermont (4400)
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
238434.518	472459.359	135.821

Operator	Kevin Chapman
Receiver Model	Trimble R8 Model
Receiver S/N	5108461884
Antenna Height	2.0m

Static Session	18843361
Date	12-02-2014
Start Time (UTC)	14:57
End Time (UTC)	16:44

Point Ties: BE16 – BE17 – LC49 – LC50 – LC51 – NYET – NYIL – NYPB – VCAP – VTD7 - VTD9

RMSE Hz: 0.007
RMSE Z: 0.020

PHOTOS:





Point ID	TW12
Project No.	22399
Project Name	Eastern Vermont LiDAR
State	Vermont
County	Chittenden
Quad	Colchester

Aerial Target	
LiDAR Ground Control	
X LiDAR QC Point	
New Control	
Photo ID	
Published Control	

Coordinate System	
NAD83(2011)	
SPCS - Vermont (4400)	
NAVD88	
GEOID12A	
Meters	

Northing	Easting	Elevation
236034.576	443490.500	35.537

Operator	Kevin Chapman
Receiver Model	Trimble R8 Model 3
Receiver S/N	5046455718
Antenna Height	2.0m

Static Session	57183354 / 57183360
Date	12-01-2014 / 12-02-2014
Start Time (UTC)	20:09 / 12:16
End Time (UTC)	20:52 / 13:32

Point Ties: BE15 – LC33BS – LC47 – LC48 – NYET – NYIL – NYPB – TW13
VCAP – VTC1 – VTD7 - VTD9

RMSE Hz: 0.006
RMSE Z: 0.024

PHOTOS:





Point ID	TW13
Project No.	22399
Project Name	Eastern Vermont LiDAR
State	Vermont
County	Franklin
Quad	Milton

Aerial Target	
LiDAR Ground Control	
X LiDAR QC Point	
New Control	
Photo ID	
Published Control	

Coordinate System	
NAD83(2011)	
SPCS - Vermont (4400)	
NAVD88	
GEOID12A	
Meters	

Northing	Easting	Elevation
247970.916	456695.585	190.999

Operator	Kevin Chapman
Receiver Model	Trimble R8 Model
Receiver S/N	5108461884
Antenna Height	2.0m

Static Session	18843360
Date	12-02-2014
Start Time (UTC)	13:01
End Time (UTC)	14:27

Point Ties: BE16 – LC47 – LC48 – LC49 – NYET – NYIL – NYPB – TW12 – VCAP – VTD7 - VTD9

RMSE Hz: 0.007
RMSE Z: 0.027

PHOTOS:





Point ID	TW14
Project No.	22399
Project Name	Eastern VT LiDAR
State	Vermont
County	LAMOILE
Quad	JOHNSON

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
SPCS - Vermont (4400)
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
249461.380	483003.619	240.673

Operator	SAM
Receiver Model	Trimble R8 – Model 3
Receiver S/N	5133470976
Antenna Height	2.000 Meters

Static Session	09760830
Date	24 MAR 2015
Start Time (UTC)	1702
End Time (UTC)	1845

Point Ties: BE18 - BE19 - LC52 - LC53 - LC54 - LC55 - LC56

RMSE Hz: 0.007
RMSE Z: 0.011

PHOTOS:





Point ID	TW15
Project No.	22399
Project Name	Eastern VT LiDAR
State	Vermont
County	WASHINGTON
Quad	ALBANY

Aerial Target	
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
	NAD83(2011)
	SPCS - Vermont (4400)
	NAVD88
	GEOID12A
	Meters

Northing	Easting	Elevation
239166.444	509509.012	371.874

Operator	SAM
Receiver Model	Trimble R8 – Model 3
Receiver S/N	5108461884
Antenna Height	2.000 Meters

Static Session	18841071
Date	17 APRIL 2015
Start Time (UTC)	1632
End Time (UTC)	1732

Point Ties: BE20 - VCAP - VTD7 - VTD9 - VTEB - VTHA - VTIP - VTRU - VTSA - VTSP - VTUV

RMSE Hz: 0.006
RMSE Z: 0.011

PHOTOS:





Point ID	TW16
Project No.	22399
Project Name	Eastern VT LiDAR
State	Vermont
County	ORLEANS
Quad	IRASBURG

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
NAD83(2011)	
SPCS - Vermont (4400)	
NAVD88	
GEOID12A	
Meters	

Northing	Easting	Elevation
252620.712	514123.737	267.934

Operator	SAM
Receiver Model	Trimble R8 – Model 3
Receiver S/N	5135472526
Antenna Height	2.000 Meters

Static Session	25260882
Date	28 MAR 2015
Start Time (UTC)	1641
End Time (UTC)	1800

Point Ties: BE14 - BE22 - LC41 - LC58 - LC62 - NYET - NYPB - VCAP - VTC1 - VTD7 - VTD9 - VTEB - VTHA - VTIP - VTOX - VTRU - VTSA - VTSP - VTUV

RMSE Hz: 0.006
RMSE Z: 0.013

PHOTOS:





Point ID	TW17
Project No.	22399
Project Name	Eastern VT LiDAR
State	Vermont
County	ORLEANS
Quad	NOTH TROY STATION

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
NAD83(2011)	
SPCS - Vermont (4400)	
NAVD88	
GEOID12A	
Meters	

Northing	Easting	Elevation
276846.949	509597.076	197.400

Operator	SAM
Receiver Model	Trimble R8 – Model 3
Receiver S/N	5133470976
Antenna Height	2.000 Meters

Static Session	09760891
Date	29 MAR 2015
Start Time (UTC)	1438
End Time (UTC)	1610

Point Ties: BE06 - LC17 - LC19 - LC39 - LC68 - LC71 - MERA - NYET - NYPB - PMTL - VCAP - VTC1 - VTD7 - VTD9 - VTEB - VTHA - VTIP - VTOX - VTRU - VTSA - VTSP - VTUV

RMSE Hz: 0.006
RMSE Z: 0.011

PHOTOS:





Point ID	TW18
Project No.	22399
Project Name	Eastern VT LiDAR
State	Vermont
County	Orleans
Quad	Island Pond

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
NAD83(2011)	
SPCS - Vermont (4400)	
NAVD88	
GEOID12A	
Meters	

Northing	Easting	Elevation
258757.023	541525.149	351.968

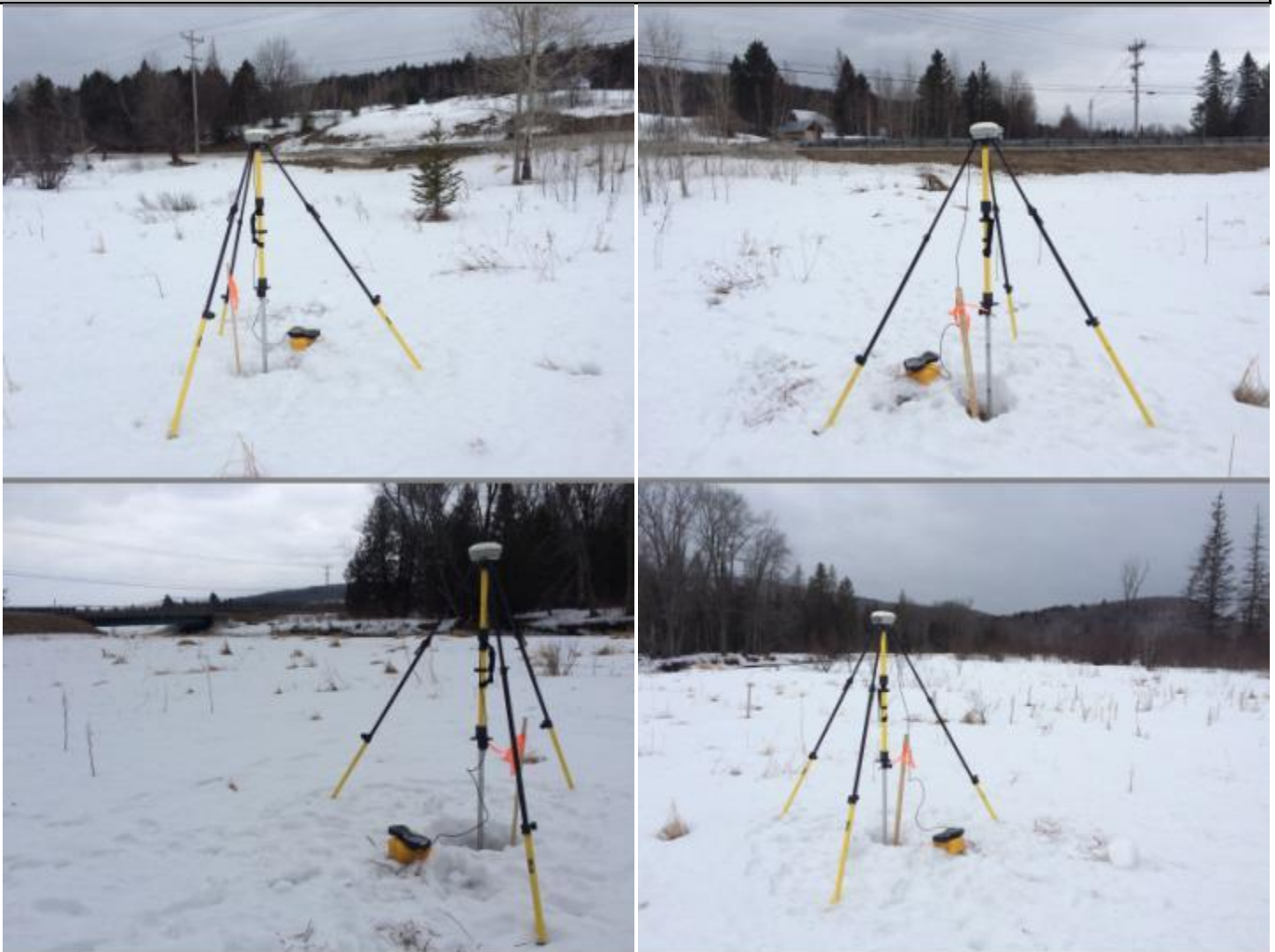
Operator	DI
Receiver Model	Trimble R8 Model 3
Receiver S/N	5046465718
Antenna Height	2.000 Meters

Static Session	57180892
Date	03302015
Start Time (UTC)	19:57
End Time (UTC)	21:10

Point Ties: BE24 - BE25 - LC64 - LC65 - LC68 - MERA - NYET - NYPB - PMTL - VCAP - VTC1 - VTD7 - VTD9 - VTEB - VTHA - VTIP - VTOX - VTRU - VTSA - VTSP - VTUV

RMSE Hz: 0.008
RMSE Z: 0.017

PHOTOS:





Point ID	TW19
Project No.	23299
Project Name	EASTERN VERMONT
State	VERMONT
County	ORLEANS
Quad	WEST OF NORTON POINT OF ENTRY

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
NAD83(2011)	
SPCS - Vermont (4400)	
NAVD88	
GEOID12A	
Meters	

Northing	Easting	Elevation
277350.052	542598.955	417.825

Operator	STEVE MILLER
Instrument Model	Trimble M3 2"
Date	03-31-2015
Occupy PT	LC66
Back Sight PT	BE25
RMSE Hz	0.010
RMSE Z	0.020

PHOTOS:





Point ID	TW20
Project No.	22399
Project Name	Eastern VT LiDAR
State	Vermont
County	Orange
Quad	Washington

Aerial Target	
LiDAR Ground Control	
X LiDAR QC Point	
New Control	
Photo ID	
Published Control	

Coordinate System	
NAD83(2011)	
SPCS - Vermont (4400)	
NAVD88	
GEOID12A	
Meters	

Northing	Easting	Elevation
177546.540	504315.691	465.851

Operator	Kevin Chapman
Receiver Model	Trimble R8 Model 4
Receiver S/N	5329440824
Antenna Height	2.000 Meters

Static Session	08243032
Date	10/30/2014
Start Time (UTC)	18:26
End Time (UTC)	19:27

Point Ties: LC08 - LC09 - NYET - NYIL - VCAP - VTOX - VTRU - VTSP

RMSE Hz: 0.006
RMSE Z: 0.011

PHOTOS:

