Survey Report

Job name	3616-6-jez_avnia
Creation date	14 Aug 2025
Version	Trimble General Survey 3.21
Distance Units	Meters
Angle units	Gons
Pressure Units	mbar
Temperature Units	Celsius

Coordinate system (Job)

System	
Zone	
Datum	

Projection

Projection	Transverse Mercator
Origin lat	0°00'00.00000"N
Origin long	21°00'00.00000"E
False northing	0.000
False easting	7500000.000
Scale	0.99990000
South azimuth (grid)	No
Grid coords	Increase North-East
Ellipsoid	Semi-major axis: 6378137.000 Flattening: 298.25722154

Local site

Type	Grid

Datum transformation

Type	None

Collected Field Data

Projection

Projection	Transverse Mercator
Origin lat	0°00'00.00000"N
Origin long	21°00'00.00000"E
False northing	0.000
False easting	7500000.000
Scale	0.99990000
Ellipsoid	Semi-major axis: 6378137.000 Flattening: 298.25722154

Local site

Type	Grid

Datum transformation

Type	None

Feature library

Library name	LIRIDON
Library File Name	LIRIDON.fxl
Attribute Support	No

Corrections

South azimuth (grid)	No
Grid coords	Increase North-East
Magnetic declination	0.0000
Distances	Grid
Neighborhood adjustment	Off

Rover options

Elevation mask	13	**PDOP mask**	6					

Rover options

Elevation mask	13	**PDOP mask**	6					

Survey event

Survey event	Rover started

Note	VRS base: 42°21'42.17940", 21°00'07.38840", 1069.553m

Initialization event: RTK initialized

GPS week	2379	**Seconds**	374760	**Initialization type**	On the fly	**Survey type**	Real-time		

Initialization event: RTK not initialized

GPS week	2379	**Seconds**	374787	**Initialization type**	On the fly	**Survey type**	Real-time		

Initialization event: RTK initialized

GPS week	2379	**Seconds**	374858	**Initialization type**	On the fly	**Survey type**	Real-time		

Initialization event: RTK not initialized

GPS week	2379	**Seconds**	374870	**Initialization type**	On the fly	**Survey type**	Real-time		

Initialization event: RTK initialized

GPS week	2379	**Seconds**	374871	**Initialization type**	On the fly	**Survey type**	Real-time		

Initialization event: RTK not initialized

GPS week	2379	**Seconds**	374892	**Initialization type**	On the fly	**Survey type**	Real-time		

Initialization event: RTK initialized

GPS week	2379	**Seconds**	374896	**Initialization type**	On the fly	**Survey type**	Real-time		

Initialization event: RTK not initialized

GPS week	2379	**Seconds**	374946	**Initialization type**	On the fly	**Survey type**	Real-time		

Survey event

Survey event	End survey

Rover options

Elevation mask	13	**PDOP mask**	6				

Rover options

Elevation mask	13	**PDOP mask**	6				

Survey event

Survey event	Rover started

Note	VRS base: 42°21'41.91720", 21°00'07.34760", 1059.005m

Initialization event: RTK initialized

GPS week	2379	**Seconds**	375044	**Initialization type**	On the fly	**Survey type**	Real-time		

Initialization event: RTK not initialized

GPS week	2379	**Seconds**	375058	**Initialization type**	On the fly	**Survey type**	Real-time		

Initialization event: RTK initialized

GPS week	2379	**Seconds**	375060	**Initialization type**	On the fly	**Survey type**	Real-time		

Initialization event: RTK not initialized

				Initialization type					

GPS week	2379	Seconds	375066	type		On the fly	Survey type		Real-time		

Initialization event: RTK initialized

GPS week	2379	Seconds	375146	Initialization type		On the fly	Survey type		Real-time		

Initialization event: RTK not initialized

GPS week	2379	Seconds	375149	Initialization type		On the fly	Survey type		Real-time		

Initialization event: RTK initialized

GPS week	2379	Seconds	375211	Initialization type		On the fly	Survey type		Real-time		

Initialization event: RTK not initialized

GPS week	2379	Seconds	375249	Initialization type		On the fly	Survey type		Real-time		

Initialization event: RTK initialized

GPS week	2379	Seconds	375255	Initialization type		On the fly	Survey type		Real-time		

Initialization event: RTK not initialized

GPS week	2379	Seconds	375259	Initialization type		On the fly	Survey type		Real-time		

Initialization event: RTK initialized

GPS week	2379	Seconds	375260	Initialization type		On the fly	Survey type		Real-time		

Initialization event: RTK not initialized

GPS week	2379	Seconds	375264	Initialization type		On the fly	Survey type		Real-time		

Initialization event: RTK initialized

GPS week	2379	Seconds	375267	Initialization type		On the fly	Survey type		Real-time		

Initialization event: RTK not initialized

GPS week	2379	Seconds	375289	Initialization type		On the fly	Survey type		Real-time		

Survey event

Survey event	End survey

Rover options

Elevation mask	13	PDOP mask	6				

Rover options

Elevation mask	13	PDOP mask	6				

Survey event

Survey event	Rover started
Note	VRS base: 42°21'44.61300", 21°00'05.16720", 1047.175m

Initialization event: RTK initialized

GPS week	2379	Seconds	375366	Initialization type		On the fly	Survey type		Real-time		

GNSS receiver

Receiver type	R10
Serial number	5452489155
Firmware version	4.9
Antenna type	R10 Internal

Measurement method	Bottom of quick release
Tape adjustment	0.000
Horizontal offset	0.000
Vertical offset	0.199

Point	Auto0000	X	4407153.767	Y	1691874.775	Z	4276139.823	Code		
		Method	Network RTK	Type	Observed control point	Search class	Normal			
Antenna height	2.500	Type	Uncorrected	Hz Prec	0.032	Vt Prec	0.026			
QC 1		PDOP	2.0	GDOP	2.6	HDOP	1.2	VDOP		1.5
		Base data age	1	Satellites	9	Positions used	10			
QC 2		VCV xx (m²)	0.000421	VCV xy (m²)	0.000292	VCV xz (m²)	0.000034			
				VCV yy (m²)	0.000538	VCV yz (m²)	-0.000110			
						VCV zz (m²)	0.000693			

Warnings (Auto0000)	Poor precision

Initialization event: RTK not initialized

GPS week	2379	Seconds	375502	Initialization type	On the fly	Survey type	Real-time		

Initialization event: RTK initialized

GPS week	2379	Seconds	375557	Initialization type	On the fly	Survey type	Real-time		

Initialization event: RTK not initialized

GPS week	2379	Seconds	375559	Initialization type	On the fly	Survey type	Real-time		

Survey event

Survey event	End survey

Rover options

Elevation mask	13	PDOP mask	6						

Rover options

Elevation mask	13	PDOP mask	6						

Survey event

Survey event	Rover started

Note	VRS base: 42°21'41.91960", 21°00'07.29180", 1059.613m

Initialization event: RTK initialized

GPS week	2379	Seconds	375703	Initialization type	On the fly	Survey type	Real-time		

Initialization event: RTK not initialized

GPS week	2379	Seconds	375717	Initialization type	On the fly	Survey type	Real-time		

Initialization event: RTK initialized

GPS week	2379	Seconds	375753	Initialization type	On the fly	Survey type	Real-time		

Initialization event: RTK not initialized

GPS week	2379	Seconds	375754	Initialization type	On the fly	Survey type	Real-time		

Initialization event: RTK initialized

GPS week	2379	Seconds	375755	Initialization type	On the fly	Survey type	Real-time		

Initialization event: RTK not initialized

GPS week	2379	Seconds	375761	Initialization type	On the fly	Survey type	Real-time		

Initialization event: RTK initialized

GPS week	2379	Seconds	375819	Initialization type	On the fly	Survey type	Real-time		

Initialization event: RTK not initialized

GPS week	2379	Seconds	375820	Initialization type	On the fly	Survey type	Real-time		

Initialization event: RTK initialized

GPS week	2379	Seconds	375828	Initialization type	On the fly	Survey type	Real-time		

Initialization event: RTK not initialized

GPS week	2379	Seconds	375829	Initialization type	On the fly	Survey type	Real-time		

Initialization event: RTK initialized

GPS week	2379	Seconds	375840	Initialization type	On the fly	Survey type	Real-time		

Initialization event: RTK not initialized

GPS week	2379	Seconds	375841	Initialization type	On the fly	Survey type	Real-time		

Initialization event: RTK initialized

GPS week	2379	Seconds	375860	Initialization type	On the fly	Survey type	Real-time		

Survey event

Survey event	End survey

Rover options

Elevation mask	13	PDOP mask	6						

Rover options

Elevation mask	13	PDOP mask	6						

Survey event

Survey event	Rover started
Note	VRS base: 42°21'42.39420", 21°00'06.07440", 1067.214m

Initialization event: RTK initialized

GPS week	2379	Seconds	375988	Initialization type	On the fly	Survey type	Real-time		

GNSS receiver

Receiver type	R10
Serial number	5452489155
Firmware version	4.9
Antenna type	R10 Internal
Measurement method	Bottom of quick release
Tape adjustment	0.000
Horizontal offset	0.000
Vertical offset	0.199

Point	Auto0001	X	4407202.261	Y	1691914.943	Z	4276102.283	Code	
		Method	Network RTK	Type	Observed control point	Search class	Normal		
Antenna height	2.500	Type	Uncorrected	Hz Prec	0.012	Vt Prec	0.018		
QC 1		PDOP	2.8	GDOP	4.0	HDOP	1.5	VDOP	2.4
		Base data age	1	Satellites	8	Positions used	10		
QC 2		VCV xx (m²)	0.000217	VCV xy (m²)	0.000093	VCV xz (m²)	0.000095		
				VCV yy (m²)	0.000098	VCV yz (m²)	0.000049		
						VCV zz (m²)	0.000146		

Warnings (Auto0001)	Poor precision

Initialization event: RTK not initialized

GPS week	2379	**Seconds**	376105	**Initialization type**	On the fly	**Survey type**	Real-time		

Initialization event: RTK initialized

GPS week	2379	**Seconds**	376107	**Initialization type**	On the fly	**Survey type**	Real-time		

Initialization event: RTK not initialized

GPS week	2379	**Seconds**	376110	**Initialization type**	On the fly	**Survey type**	Real-time		

Initialization event: RTK initialized

GPS week	2379	**Seconds**	376113	**Initialization type**	On the fly	**Survey type**	Real-time		

Initialization event: RTK not initialized

GPS week	2379	**Seconds**	376115	**Initialization type**	On the fly	**Survey type**	Real-time		

Initialization event: RTK initialized

GPS week	2379	**Seconds**	376116	**Initialization type**	On the fly	**Survey type**	Real-time		

Initialization event: RTK not initialized

GPS week	2379	**Seconds**	376117	**Initialization type**	On the fly	**Survey type**	Real-time		

Initialization event: RTK initialized

GPS week	2379	**Seconds**	376125	**Initialization type**	On the fly	**Survey type**	Real-time		

Initialization event: RTK not initialized

GPS week	2379	**Seconds**	376126	**Initialization type**	On the fly	**Survey type**	Real-time		

Initialization event: RTK initialized

GPS week	2379	**Seconds**	376133	**Initialization type**	On the fly	**Survey type**	Real-time		

Point	1023	**X**	4407196.921	**Y**	1691941.652	**Z**	4276085.236	**Code**			
		Method	Network RTK	**Type**	Topo point	**Search class**	Normal				
Antenna height	2.500	**Type**	Uncorrected	**Hz Prec**	0.023	**Vt Prec**	0.033				
QC 1		**PDOP**	2.6	**GDOP**	3.7	**HDOP**	1.2	**VDOP**			2.3
		Base data age	1	**Satellites**	9	**Positions used**	5				
QC 2		**VCV xx (m²)**	0.000666	**VCV xy (m²)**	0.000289	**VCV xz (m²)**	0.000313				
				VCV yy (m²)	0.000325	**VCV yz (m²)**	0.000202				
						VCV zz (m²)	0.000594				

Initialization event: RTK not initialized

GPS week	2379	**Seconds**	376292	**Initialization type**	On the fly	**Survey type**	Real-time		

Survey event

Survey event	End survey

Instrument

Instrument type	Trimble VX/S Series
EDM Refractive Index	274.1
EDM Carrier Wavelength	79.3
Horizontal circle mode	Set to azimuth
Horizontal Angle Precision	0.0009
Vertical Angle Precision	0.0009
EDM precision	3mm +2ppm
EDM constant	0mm
Backsight centering error	0.003

Instrument details

Model	S6 3 DR 300+
Serial number	92721070
Firmware version	R12.5.54
Horizontal collimation	-0.0007
Vertical collimation	0.0001
Trunnion axis tilt correction	-0.0017

Atmosphere

Pressure	904.50mbar	Temperature	28.0°C	ppm	35.9				
Curvature correction	Yes	Refraction correction	Yes	Refraction const.	0.142				

Station setup

Station	fs1	Instrument height	0.000	Station type	Resection (Standard)	Scale factor	1.00000000	Std Error	?

Orientation

Station	fs1	Backsight point	Auto0000	F1 Orientation correction	0.0000	F2 Orientation correction	?	Orient. Std Err	0.0098

Point (B.S.)	Auto0000	HA	356.0149	VA	108.4092	SD	80.069	Code	
Std Errors		HA	0.0009	VA	0.0009	SD	0.003		
Target height	1.400	Prism constant	2.0mm						
Point (B.S.)	1023	HA	210.1802	VA	99.7240	SD	22.728	Code	
Std Errors		HA	0.0009	VA	0.0009	SD	0.003		
Target height	1.400	Prism constant	2.0mm						
Point	fs1	North	4691359.351	East	7500169.058	Elevation	1059.557	Code	
Resection	fs1	Std Error (N)	0.011	Std Error (E)	0.008	Std Error (El)	0.017		

Residuals (Station)

Point	Auto0000	ΔN	0.008	ΔE	-0.006	ΔElev	-0.046	Used for	Horizontal+Vertical
		ΔHA	0.0008	ΔVA	0.0352	ΔSD	0.016		

Point	1023	ΔN	-0.008	ΔE	0.002	ΔElev	0.007	Used for	Horizontal+Vertical
		ΔHA	-0.0084	ΔVA	-0.0183	ΔSD	0.008		

Point	1024	HA	364.8905	VA	104.0693	SD	6.752	Code	ParcRe 13220
Std Errors		HA	0.0009	VA	0.0009	SD	0.010		
Target height	1.400	Prism constant	2.0mm						
Stake out point (1024)		Design point: ParcRe 13220Code:							
Method		To the point							
Stakeout	Deltas: Grid	Δ North	0.014	Δ East	-0.006	ΔElev	-1057.726		

Point	1025	HA	175.7058	VA	99.7129	SD	8.561	Code	ParcRe 12328
Std Errors		HA	0.0009	VA	0.0009	SD	0.010		
Target height	1.400	Prism constant	2.0mm						
Stake out point (1025)		Design point: ParcRe 12328Code:							
Method		To the point							
Stakeout	Deltas: Grid	Δ North	-0.068	Δ East	-0.091	ΔElev	-1058.196		

Point	1026	HA	128.9579	VA	118.7521	SD	18.291	Code	ParcRe 12324
Std Errors		HA	0.0009	VA	0.0009	SD	0.010		
Target height	1.400	Prism constant	2.0mm						
Stake out point (1026)		Design point: ParcRe 12324Code:							
Method		To the point							
Stakeout	Deltas: Grid	Δ North	0.180	Δ East	0.134	ΔElev	-1052.847		

Point	1027	HA	128.7249	VA	118.9080	SD	18.070	Code	ParcRe 12323
Std Errors		HA	0.0009	VA	0.0009	SD	0.010		
Target height	1.400	Prism constant	2.0mm						
Stake out line (1027)		Line name: ParcRe 12323 Code:							
Method		To the line							
Station		-0.306							
Elevation		0.000							
Stakeout	Deltas: Grid	Δ North	0.046	Δ East	0.003	ΔElev	-1052.868		
Stakeout	Deltas: Linear	Δ Station	?	ΔOffset	-0.046	ΔElev	-1052.868	Grade to line	-2294719.62%

Point	1028	HA	59.9982	VA	129.7539	SD	18.903	Code	ParcRe 13317
Std Errors		HA	0.0009	VA	0.0009	SD	0.010		

Target height		1.400	Prism constant	2.0mm									
Stake out line (1028)			Line name: ParcRe 13317 Code:										
Method			To the line										
Station			-0.684										
Elevation			0.000										
Stakeout		Deltas: Grid	**Δ North**	0.010	**Δ East**	0.048	**ΔElev**	-1049.640					
Stakeout		Deltas: Linear	**Δ Station**	?	**ΔOffset**	-0.049	**ΔElev**	-1049.640	**Grade to line**	-2136931.67%			

Reduced points

Point		Auto0000	**North**	4691420.516	**East**	7500118.484	**Elevation**	1047.565	**Code**	
Point		Auto0001	**North**	4691352.591	**East**	7500138.600	**Elevation**	1066.360	**Code**	
Point		1023	**North**	4691336.908	**East**	7500165.442	**Elevation**	1058.263	**Code**	
Point		fs1	**North**	4691359.351	**East**	7500169.058	**Elevation**	1059.557	**Code**	
Point		1024	**North**	4691365.091	**East**	7500165.527	**Elevation**	1057.726	**Code**	ParcRe 13220
Point		1025	**North**	4691351.406	**East**	7500172.247	**Elevation**	1058.196	**Code**	ParcRe 12328
Point		1026	**North**	4691351.662	**East**	7500184.780	**Elevation**	1052.847	**Code**	ParcRe 12324
Point		1027	**North**	4691351.818	**East**	7500184.606	**Elevation**	1052.868	**Code**	ParcRe 12323
Point		1028	**North**	4691369.270	**East**	7500182.709	**Elevation**	1049.640	**Code**	ParcRe 13317