

FOCUS on Accuracy

San Mateo- Santa Cruz

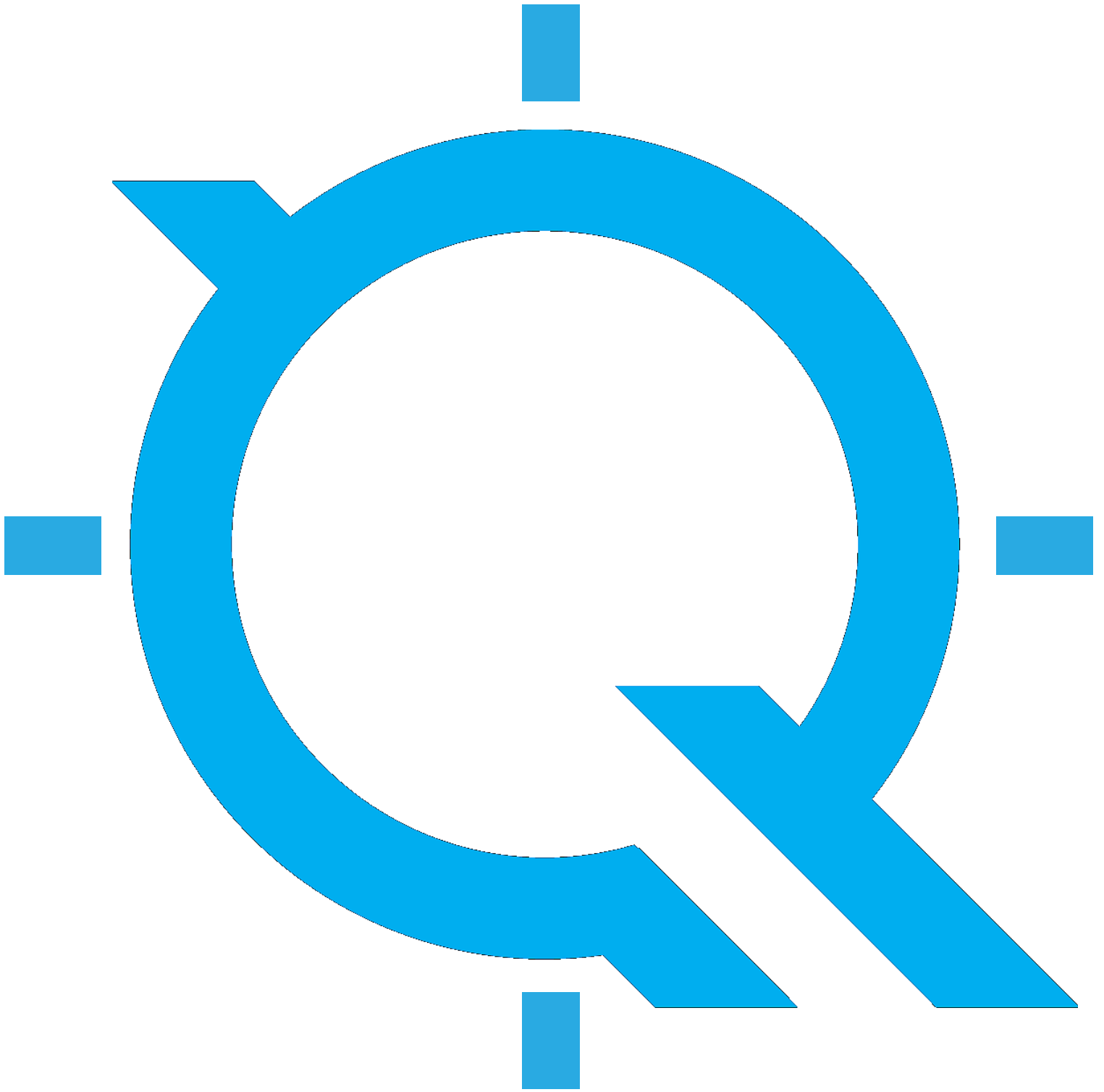
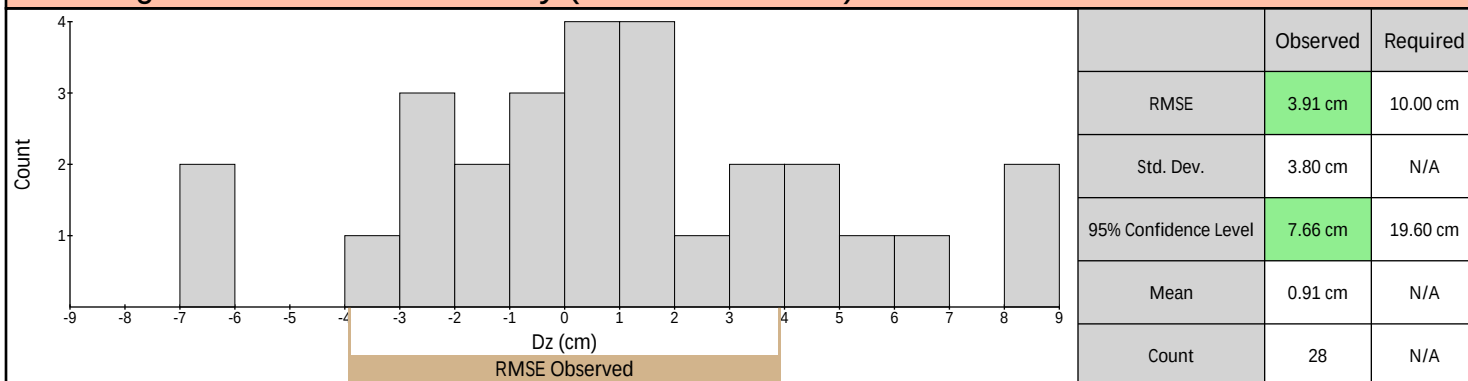


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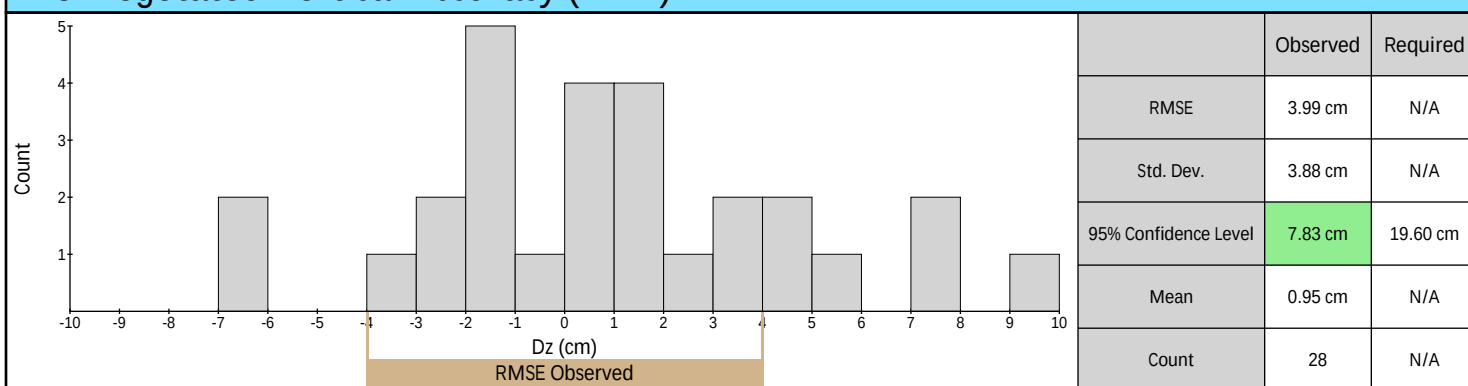
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Vertical Accuracy Assessment

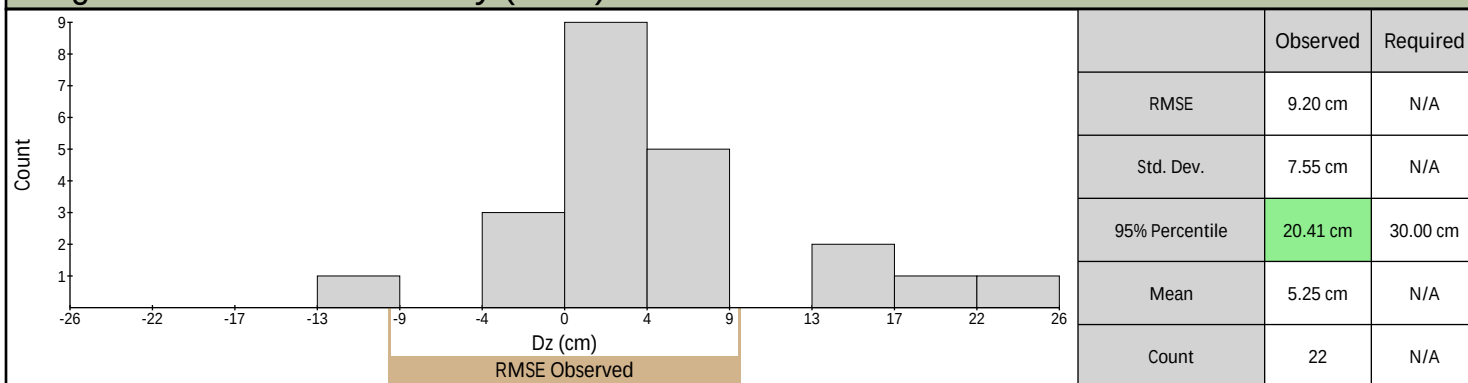
Nonvegetated Vertical Accuracy (First Return LAS)



Nonvegetated Vertical Accuracy (DEM)

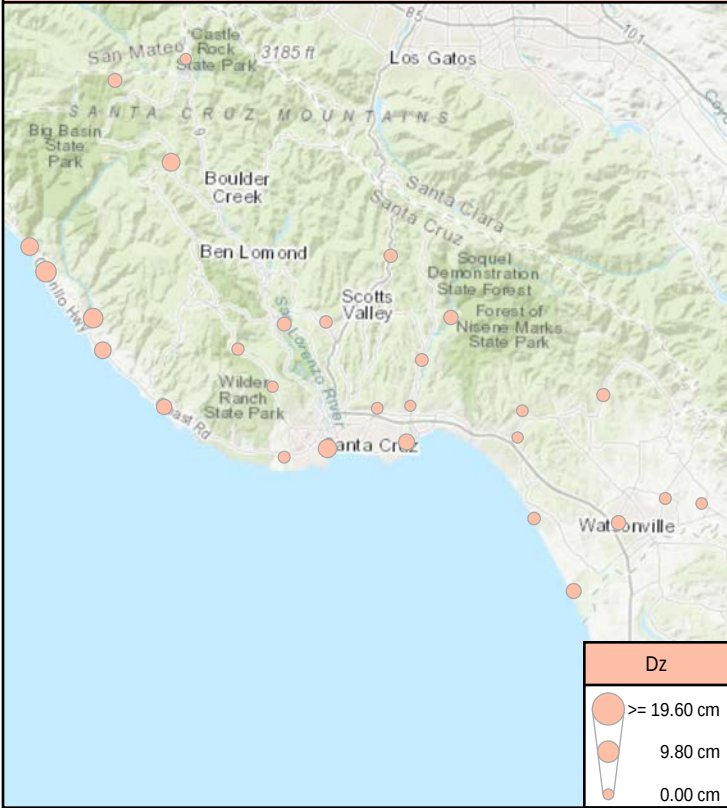


Vegetated Vertical Accuracy (DEM)

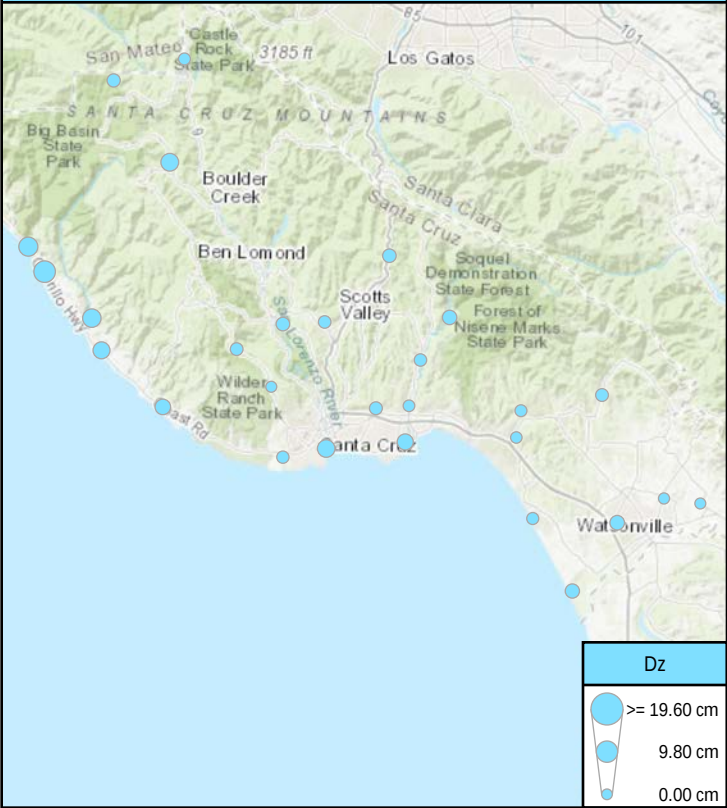


Control Point Locations

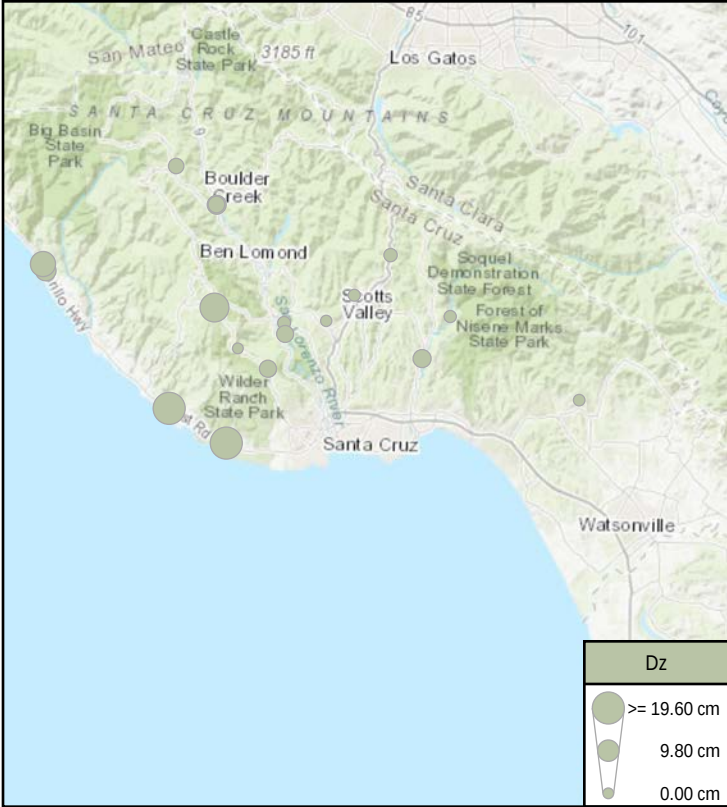
Nonvegetated Vertical Accuracy (First Return LAS)



Nonvegetated Vertical Accuracy (DEM)



Vegetated Vertical Accuracy (DEM)



Control Point Breakdown

Point	Type	Page	1st Return				Ground				DEM Dz
			Dz	Density	Nearest	Slope	Dz	Density	Nearest	Slope	
BE001	NVA	7	3.88 cm	12.66 ppsm	0.16 m	2.00°	3.88 cm	12.34 ppsm	0.16 m	2.00°	3.25 cm
BE002	NVA	8	8.04 cm	19.84 ppsm	0.16 m	3.24°	8.04 cm	18.04 ppsm	0.16 m	3.24°	7.14 cm
BE003	NVA	9	-2.19 cm	42.72 ppsm	0.06 m	1.43°	-2.19 cm	37.56 ppsm	0.06 m	1.43°	-1.93 cm
BE004	NVA	10	0.29 cm	39.54 ppsm	0.07 m	2.63°	0.29 cm	32.61 ppsm	0.07 m	2.63°	0.85 cm
BE005	NVA	11	1.26 cm	100.27 ppsm	0.11 m	2.23°	1.26 cm	85.06 ppsm	0.11 m	2.23°	1.85 cm
BE006	NVA	12	4.24 cm	14.11 ppsm	0.16 m	3.34°	4.24 cm	13.19 ppsm	0.16 m	3.34°	4.48 cm
BE007	NVA	13	1.00 cm	20.73 ppsm	0.13 m	1.01°	1.00 cm	18.85 ppsm	0.13 m	1.01°	0.39 cm
BE008	NVA	14	-0.82 cm	20.69 ppsm	0.13 m	2.63°	-0.82 cm	17.86 ppsm	0.13 m	2.63°	-1.07 cm
BE009	NVA	15	-0.44 cm	20.19 ppsm	0.06 m	1.00°	-0.71 cm	17.26 ppsm	0.06 m	1.00°	0.26 cm
BE011	NVA	16	-6.49 cm	17.05 ppsm	0.10 m	4.15°	-6.49 cm	17.33 ppsm	0.10 m	4.15°	-6.48 cm
BE012	NVA	17	-2.94 cm	62.71 ppsm	0.09 m	4.35°	-2.94 cm	58.89 ppsm	0.09 m	4.35°	-2.27 cm
BE013	NVA	18	3.26 cm	42.94 ppsm	0.12 m	2.29°	3.26 cm	40.32 ppsm	0.12 m	2.29°	3.42 cm
BE014	NVA	19	-0.90 cm	31.76 ppsm	0.11 m	1.43°	-1.91 cm	25.75 ppsm	0.14 m	1.43°	-1.99 cm
BE015	NVA	20	-1.56 cm	111.90 ppsm	0.12 m	1.00°	-1.56 cm	96.77 ppsm	0.12 m	1.00°	-1.70 cm
BE016	NVA	21	2.41 cm	152.79 ppsm	0.03 m	1.43°	2.41 cm	132.42 ppsm	0.03 m	1.43°	2.61 cm
BE018	NVA	22	1.86 cm	203.29 ppsm	0.08 m	1.86°	1.86 cm	127.11 ppsm	0.08 m	1.86°	1.59 cm
BE019	NVA	23	8.97 cm	57.30 ppsm	0.15 m	2.93°	8.97 cm	54.61 ppsm	0.15 m	2.93°	9.97 cm
BE020	NVA	24	-2.92 cm	96.48 ppsm	0.13 m	3.04°	-2.92 cm	80.92 ppsm	0.13 m	3.04°	-2.69 cm
UA001	NVA	25	6.44 cm	38.90 ppsm	0.14 m	1.43°	6.44 cm	35.58 ppsm	0.14 m	1.43°	7.67 cm
UA002	NVA	26	5.46 cm	33.03 ppsm	0.07 m	3.94°	5.46 cm	30.84 ppsm	0.07 m	3.94°	5.75 cm
UA003	NVA	27	-1.04 cm	59.42 ppsm	0.10 m	1.43°	-1.04 cm	44.78 ppsm	0.10 m	1.43°	-1.45 cm
UA004	NVA	28	0.65 cm	40.32 ppsm	0.13 m	11.49°	0.65 cm	36.71 ppsm	0.13 m	11.49°	0.21 cm
UA005	NVA	29	1.63 cm	25.75 ppsm	0.07 m	3.72°	1.63 cm	24.33 ppsm	0.07 m	3.72°	1.22 cm
UA006	NVA	30	0.47 cm	57.30 ppsm	0.09 m	2.93°	0.18 cm	46.61 ppsm	0.09 m	2.93°	-0.72 cm
UA007	NVA	31	0.42 cm	74.06 ppsm	0.03 m	4.95°	0.42 cm	70.98 ppsm	0.03 m	4.95°	1.14 cm
UA008	NVA	32	4.84 cm	25.89 ppsm	0.18 m	1.43°	4.84 cm	24.33 ppsm	0.18 m	1.43°	4.95 cm
UA009	NVA	33	-6.99 cm	61.47 ppsm	0.06 m	0.86°	-7.39 cm	48.24 ppsm	0.06 m	0.86°	-6.30 cm
UA010	NVA	34	-3.30 cm	50.51 ppsm	0.09 m	2.72°	-3.30 cm	33.25 ppsm	0.09 m	2.72°	-3.56 cm

Control Point Breakdown (continued)

Point	Type	Page	1st Return				Ground				DEM Dz
			Dz	Density	Nearest	Slope	Dz	Density	Nearest	Slope	
FR001	VVA	35	-	40.74 ppsm	0.04 m	74.27°	0.81 cm	17.97 ppsm	0.21 m	3.72°	3.48 cm
FR002	VVA	36	-	115.86 ppsm	0.10 m	81.81°	0.22 cm	18.53 ppsm	0.21 m	5.57°	0.51 cm
FR003	VVA	37	-	132.84 ppsm	0.07 m	68.78°	3.26 cm	5.38 ppsm	0.31 m	2.02°	3.30 cm
FR004	VVA	38	-	125.70 ppsm	0.17 m	86.55°	0.03 cm	5.66 ppsm	0.54 m	8.53°	-0.04 cm
FR005	VVA	39	-	55.74 ppsm	0.14 m	18.26°	-9.04 cm	0.28 ppsm	1.93 m	-	-9.06 cm
FR006	VVA	40	-	46.26 ppsm	0.01 m	82.28°	0.41 cm	11.74 ppsm	0.01 m	4.29°	0.78 cm
FR007	VVA	41	-	86.72 ppsm	0.07 m	71.76°	8.53 cm	9.20 ppsm	0.59 m	7.25°	7.58 cm
FR009	VVA	42	-	74.98 ppsm	0.13 m	81.31°	0.02 cm	11.32 ppsm	0.23 m	6.14°	-0.01 cm
FR010	VVA	43	-	86.79 ppsm	0.18 m	81.93°	12.71 cm	15.21 ppsm	0.10 m	5.71°	13.25 cm
FR012	VVA	44	-	163.54 ppsm	0.02 m	74.55°	2.19 cm	44.42 ppsm	0.07 m	15.11°	2.39 cm
FR013	VVA	45	-	94.79 ppsm	0.06 m	52.64°	0.71 cm	43.43 ppsm	0.20 m	7.25°	2.05 cm
FR014	VVA	46	-	53.76 ppsm	0.20 m	82.64°	0.29 cm	10.33 ppsm	0.17 m	3.64°	0.33 cm
SH001	VVA	47	-	45.27 ppsm	0.10 m	6.56°	16.73 cm	22.99 ppsm	0.10 m	6.56°	16.65 cm
SH003	VVA	48	-	39.19 ppsm	0.09 m	15.51°	26.04 cm	24.97 ppsm	0.39 m	15.51°	25.43 cm
SH030	VVA	49	-	48.81 ppsm	0.03 m	6.14°	7.17 cm	23.34 ppsm	0.03 m	6.14°	5.78 cm
TG001	VVA	50	-	67.27 ppsm	0.07 m	4.95°	-1.14 cm	61.33 ppsm	0.07 m	4.95°	-1.10 cm
TG002	VVA	51	-	86.44 ppsm	0.11 m	2.02°	6.21 cm	80.78 ppsm	0.11 m	2.02°	5.44 cm
TG003	VVA	52	-	38.34 ppsm	0.11 m	13.90°	20.98 cm	33.32 ppsm	0.11 m	13.90°	20.61 cm
TG004	VVA	53	-	58.57 ppsm	0.15 m	8.25°	0.84 cm	52.49 ppsm	0.15 m	8.25°	1.28 cm
TG005	VVA	54	-	175.14 ppsm	0.02 m	4.57°	6.52 cm	107.80 ppsm	0.25 m	4.57°	6.76 cm
TG006	VVA	55	-	111.41 ppsm	0.06 m	3.29°	4.24 cm	95.85 ppsm	0.06 m	3.29°	4.33 cm
TG007	VVA	56	-	43.29 ppsm	0.10 m	2.63°	5.83 cm	37.84 ppsm	0.10 m	2.63°	5.85 cm

BE001

General

Name	BE001
Type	NVA
Known Z	2.93 m
DEM Dz	3.25 cm

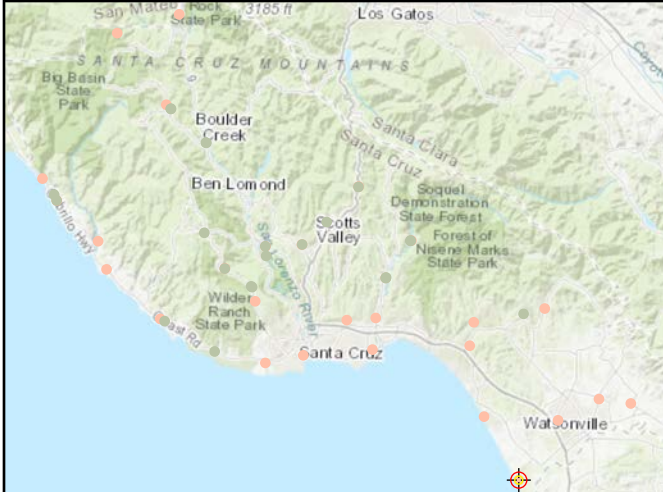
1st Return

Dz	3.88 cm
Density	12.66 ppsm
Nearest	0.16 m
Slope	2.00°

Ground

Dz	3.88 cm
Density	12.34 ppsm
Nearest	0.16 m
Slope	2.00°

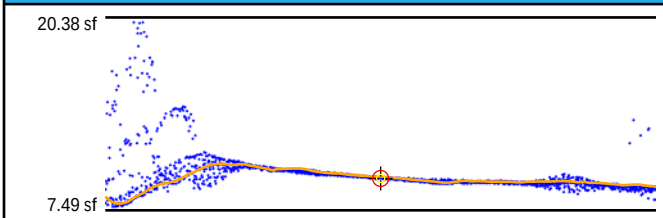
Project Context



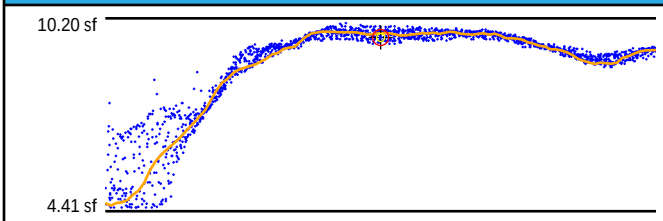
World Imagery



Cross Section - North to South



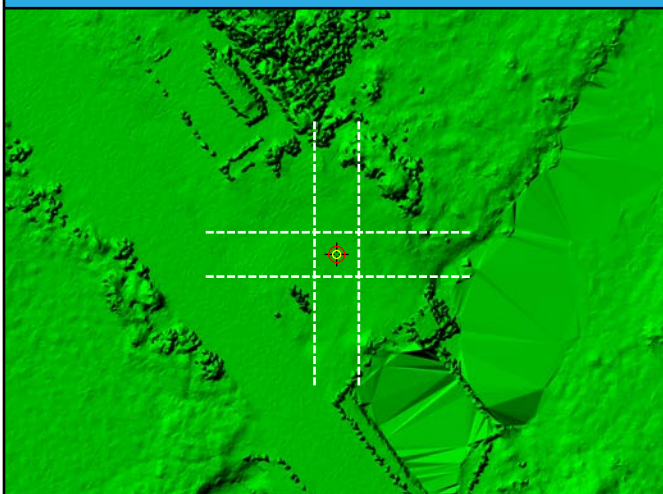
Cross Section - East to West



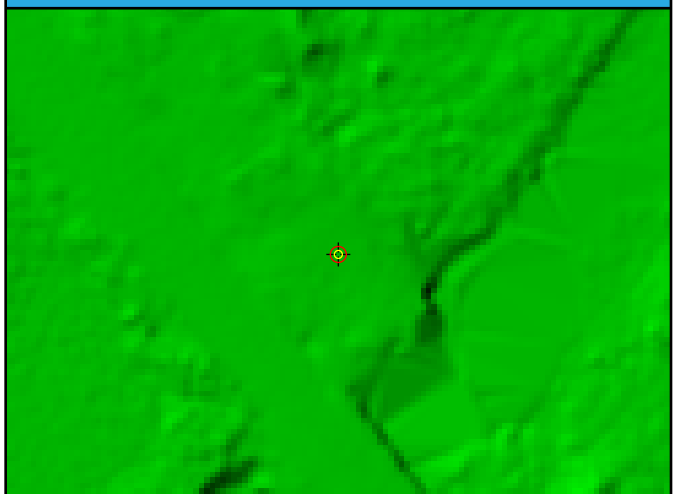
Intensity



1st Return TIN



DEM



BE002

General

Name	BE002
Type	NVA
Known Z	8.95 m
DEM Dz	7.14 cm

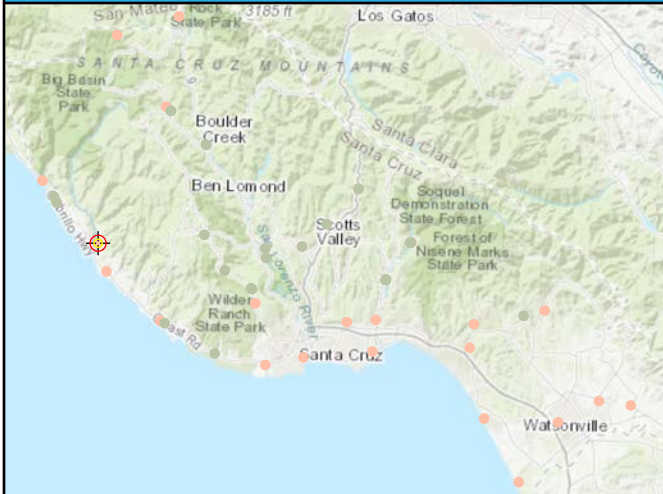
1st Return

Dz	8.04 cm
Density	19.84 ppsm
Nearest	0.16 m
Slope	3.24°

Ground

Dz	8.04 cm
Density	18.04 ppsm
Nearest	0.16 m
Slope	3.24°

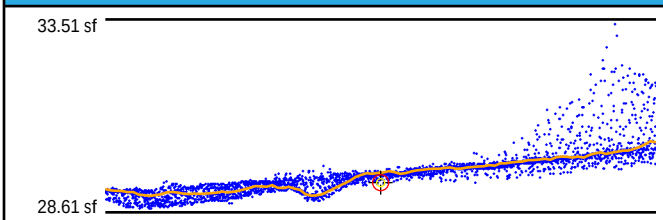
Project Context



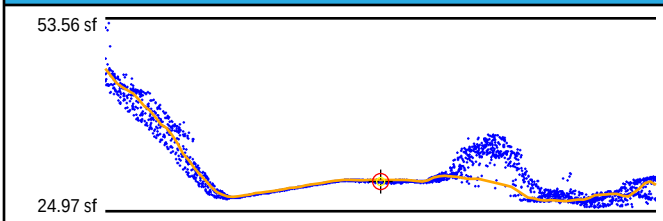
World Imagery



Cross Section - Northwest to Southeast



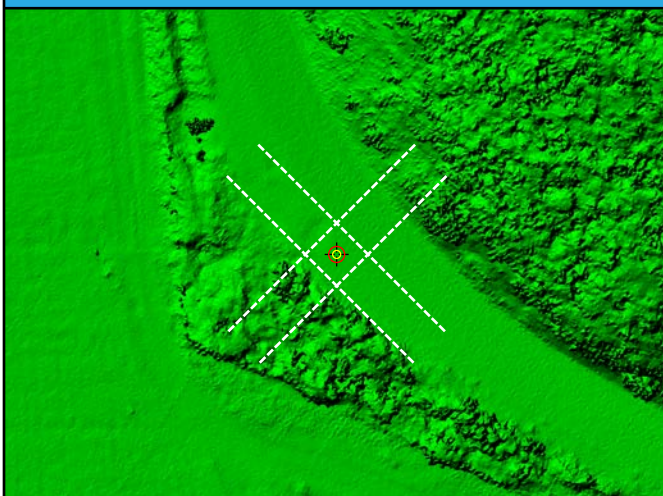
Cross Section - Northeast to Southwest



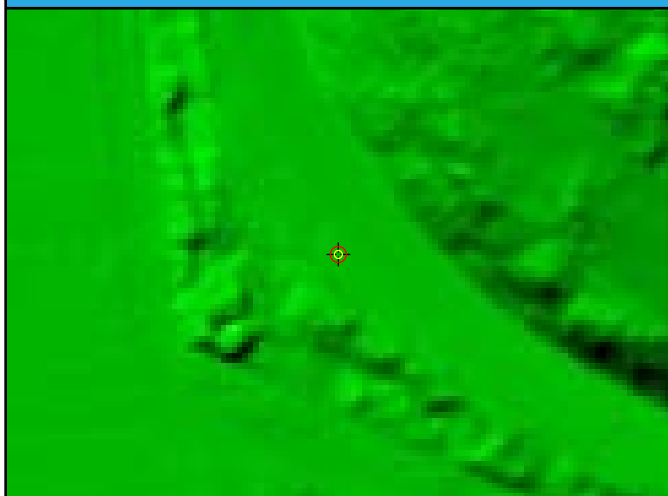
Intensity



1st Return TIN



DEM



BE003

General

Name	BE003
Type	NVA
Known Z	99.71 m
DEM Dz	-1.93 cm

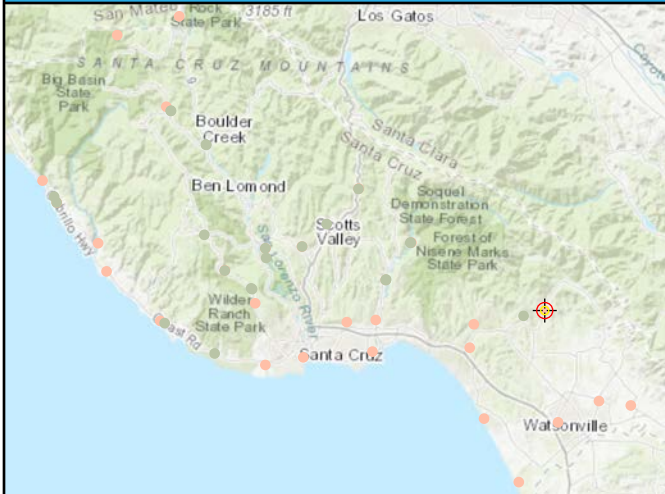
1st Return

Dz	-2.19 cm
Density	42.72 ppsm
Nearest	0.06 m
Slope	1.43°

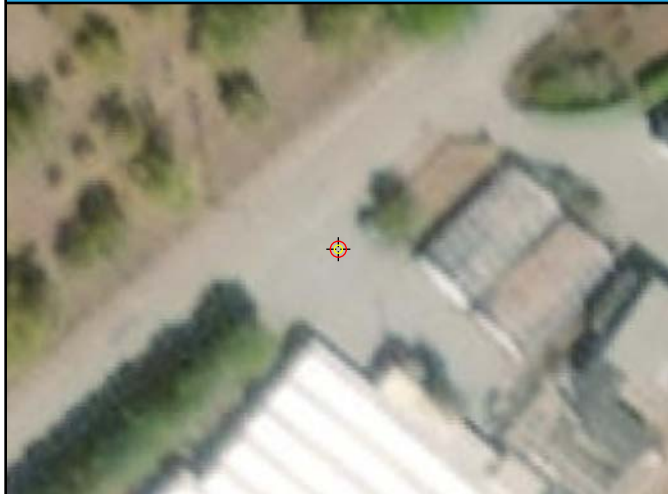
Ground

Dz	-2.19 cm
Density	37.56 ppsm
Nearest	0.06 m
Slope	1.43°

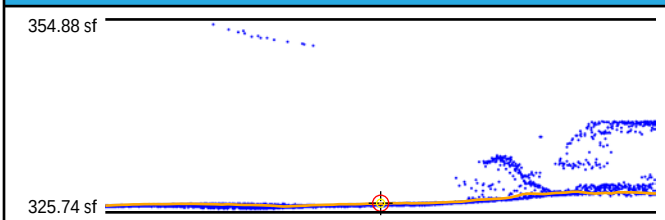
Project Context



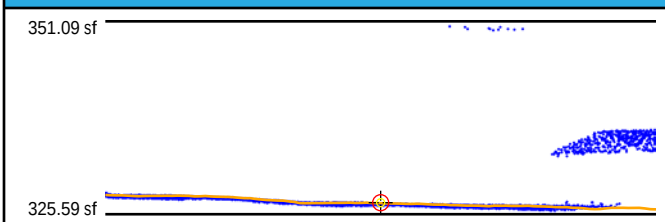
World Imagery



Cross Section - West to East



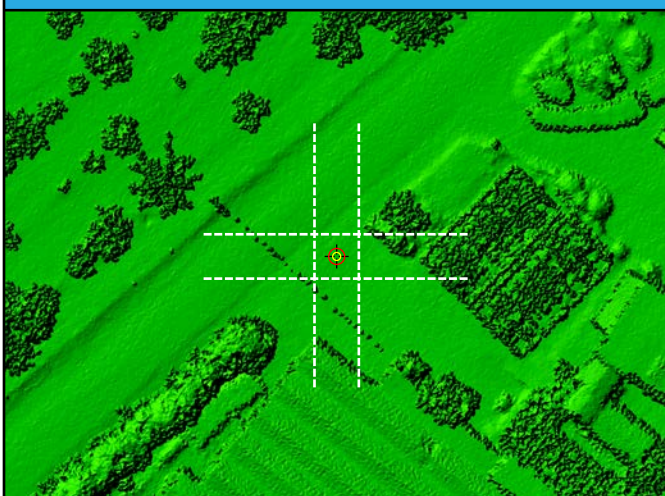
Cross Section - North to South



Intensity



1st Return TIN



DEM



BE004

General

Name	BE004
Type	NVA
Known Z	27.70 m
DEM Dz	0.85 cm

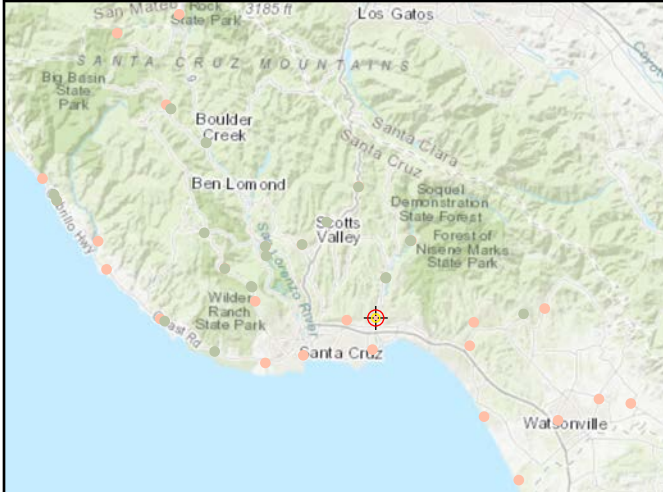
1st Return

Dz	0.29 cm
Density	39.54 ppsm
Nearest	0.07 m
Slope	2.63°

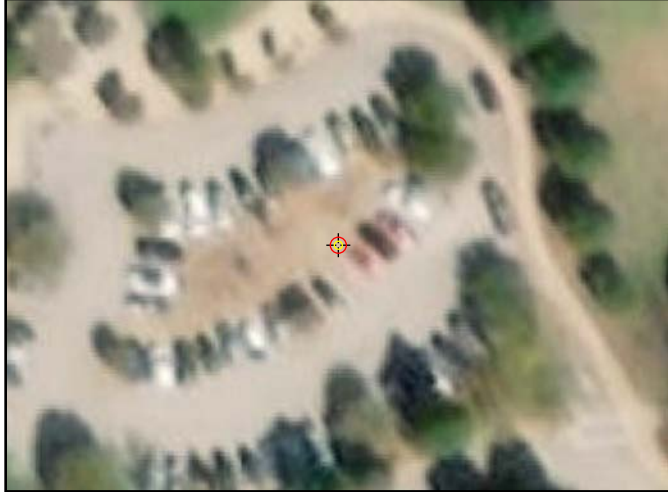
Ground

Dz	0.29 cm
Density	32.61 ppsm
Nearest	0.07 m
Slope	2.63°

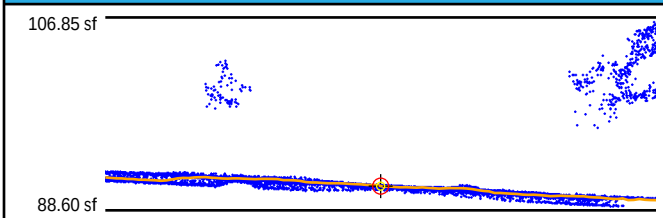
Project Context



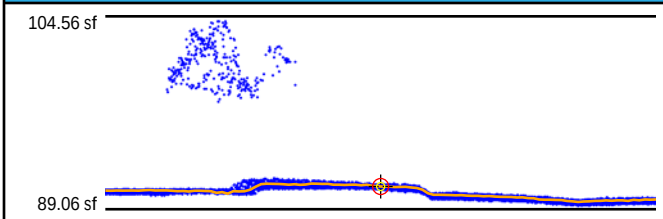
World Imagery



Cross Section - Southwest to Northeast



Cross Section - Northwest to Southeast



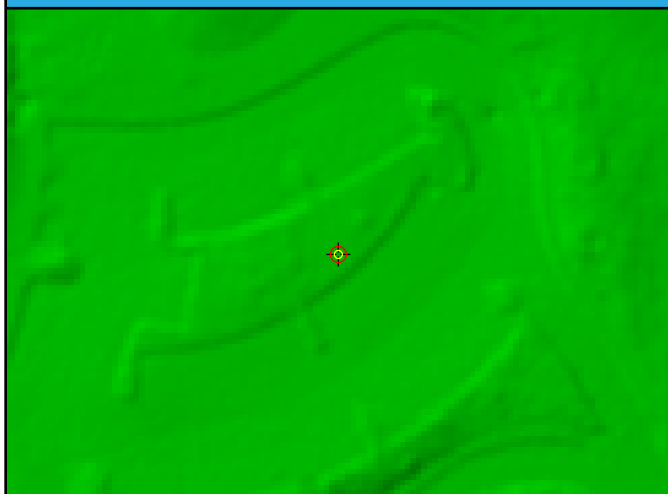
Intensity



1st Return TIN



DEM



BE005

General

Name	BE005
Type	NVA
Known Z	342.55 m
DEM Dz	1.85 cm

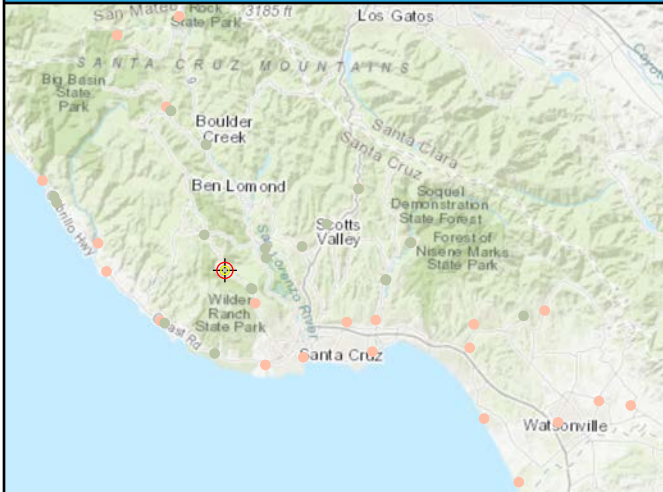
1st Return

Dz	1.26 cm
Density	100.27 ppsm
Nearest	0.11 m
Slope	2.23°

Ground

Dz	1.26 cm
Density	85.06 ppsm
Nearest	0.11 m
Slope	2.23°

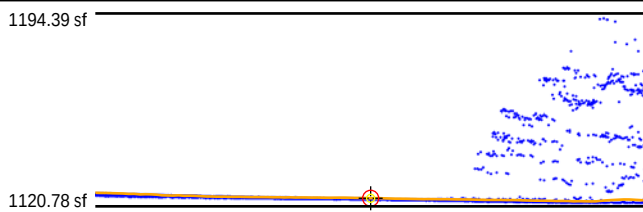
Project Context



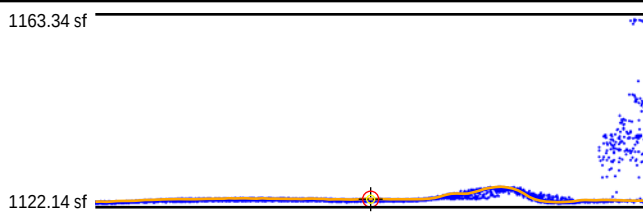
World Imagery



Cross Section - Northwest to Southeast



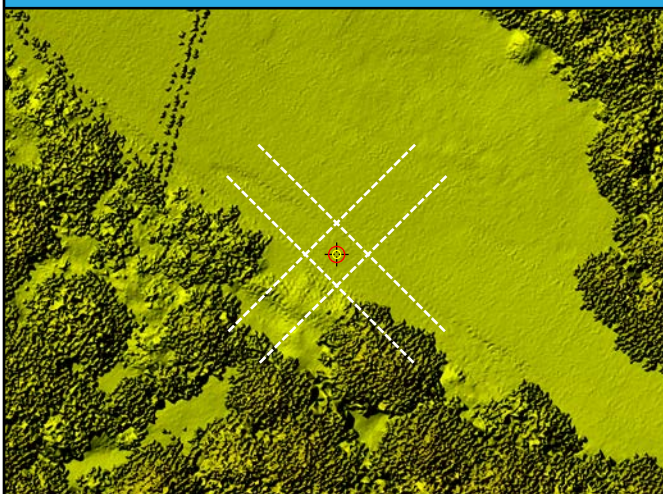
Cross Section - Northeast to Southwest



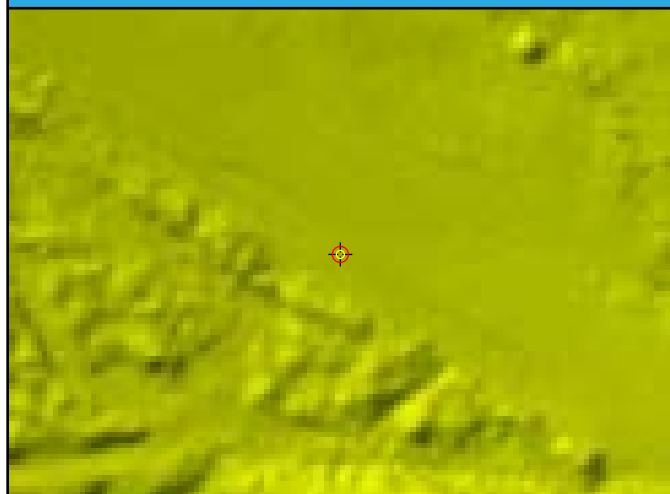
Intensity



1st Return TIN



DEM



BE006

General

Name	BE006
Type	NVA
Known Z	32.60 m
DEM Dz	4.48 cm

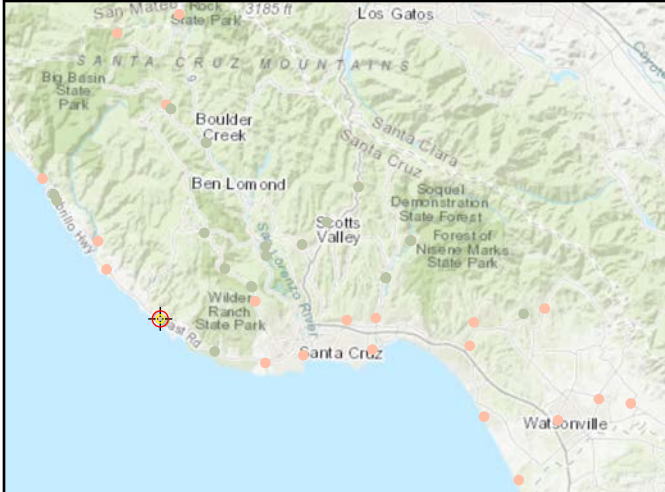
1st Return

Dz	4.24 cm
Density	14.11 ppsm
Nearest	0.16 m
Slope	3.34°

Ground

Dz	4.24 cm
Density	13.19 ppsm
Nearest	0.16 m
Slope	3.34°

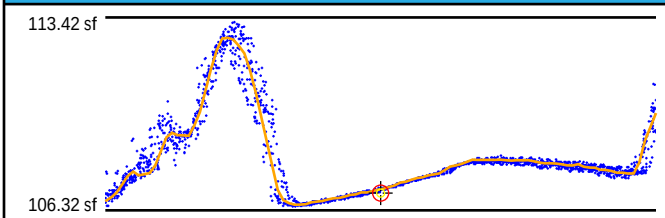
Project Context



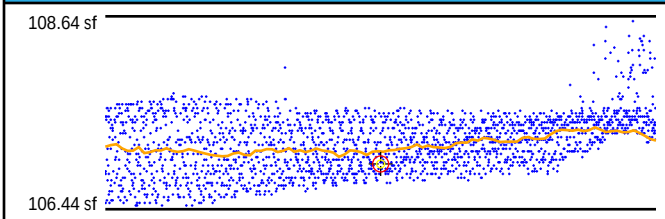
World Imagery



Cross Section - Southwest to Northeast



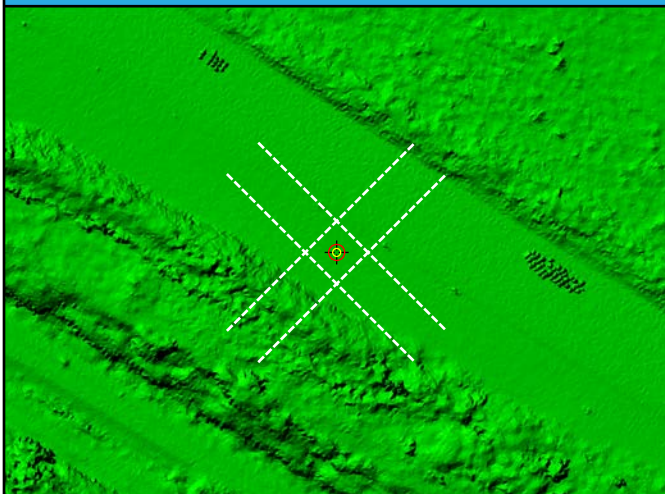
Cross Section - Northwest to Southeast



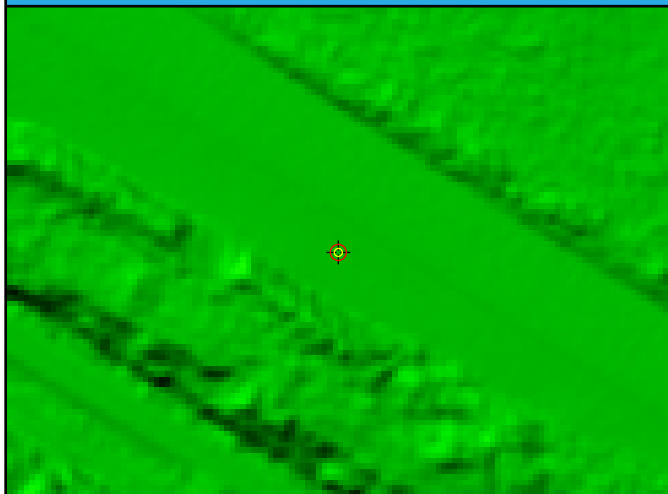
Intensity



1st Return TIN



DEM



BE007

General

Name	BE007
Type	NVA
Known Z	20.58 m
DEM Dz	0.39 cm

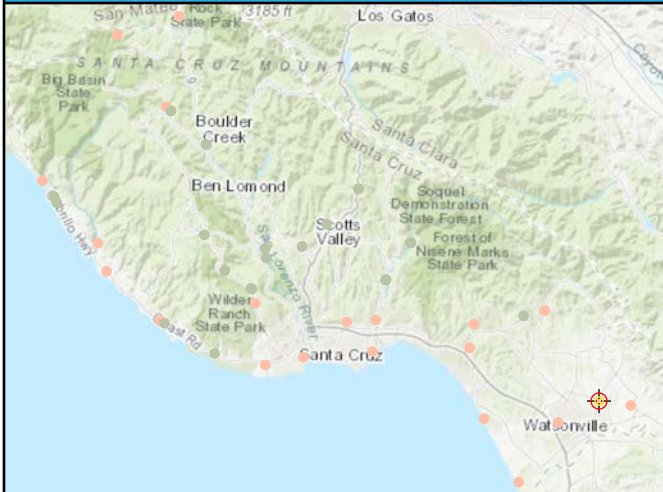
1st Return

Dz	1.00 cm
Density	20.73 ppsm
Nearest	0.13 m
Slope	1.01°

Ground

Dz	1.00 cm
Density	18.85 ppsm
Nearest	0.13 m
Slope	1.01°

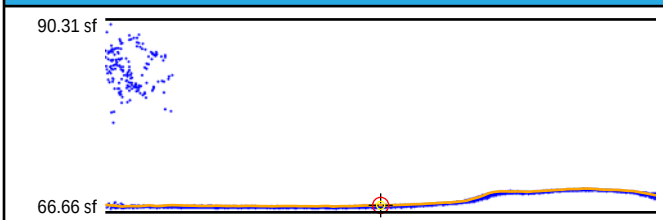
Project Context



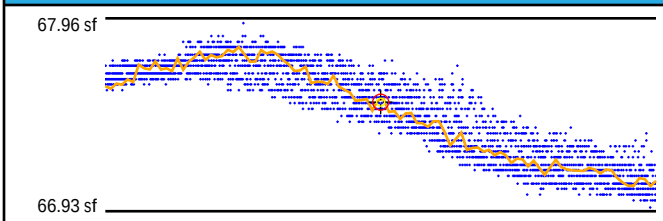
World Imagery



Cross Section - Southwest to Northeast



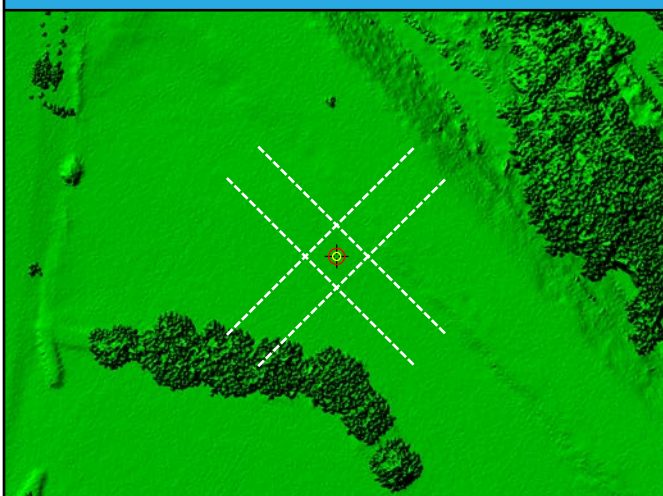
Cross Section - Northwest to Southeast



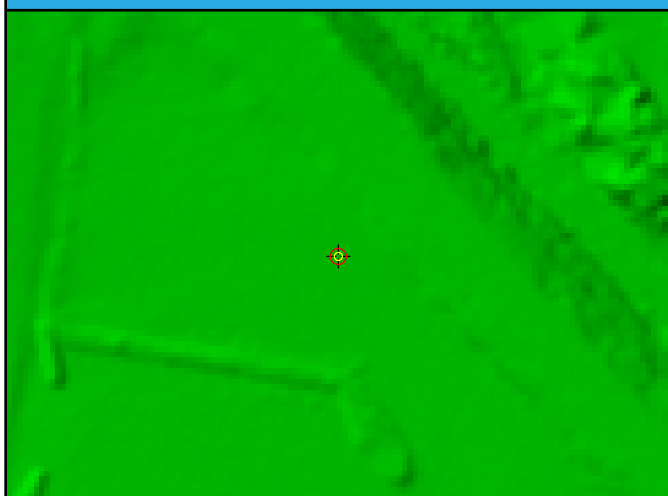
Intensity



1st Return TIN



DEM



BE008

General

Name	BE008
Type	NVA
Known Z	80.13 m
DEM Dz	-1.07 cm

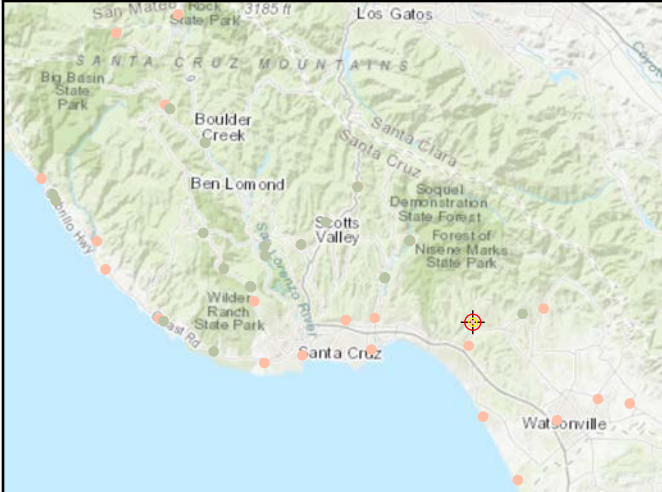
1st Return

Dz	-0.82 cm
Density	20.69 ppsm
Nearest	0.13 m
Slope	2.63°

Ground

Dz	-0.82 cm
Density	17.86 ppsm
Nearest	0.13 m
Slope	2.63°

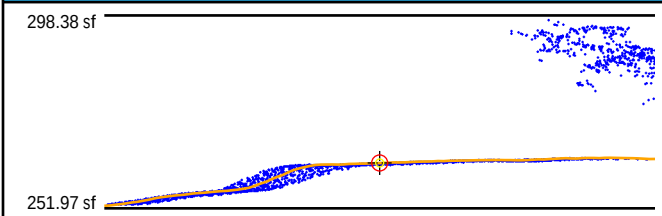
Project Context



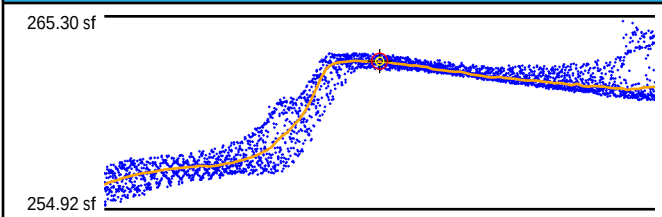
World Imagery



Cross Section - Southwest to Northeast



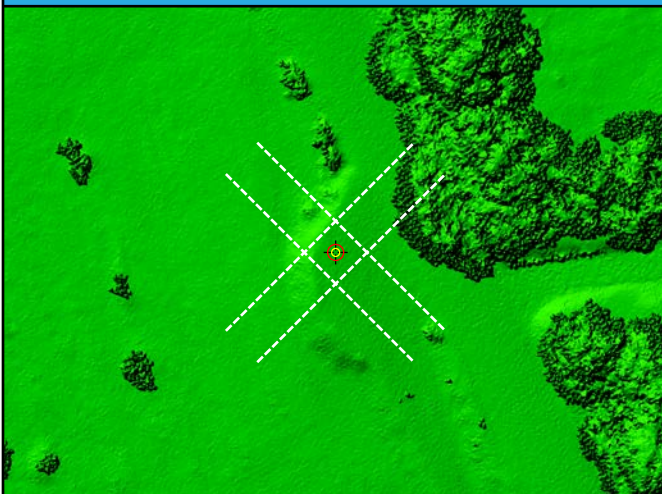
Cross Section - Northwest to Southeast



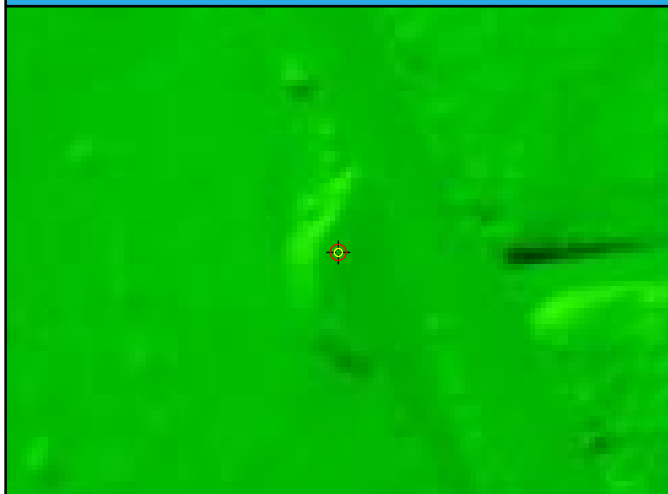
Intensity



1st Return TIN



DEM



BE009

General

Name	BE009
Type	NVA
Known Z	284.96 m
DEM Dz	0.26 cm

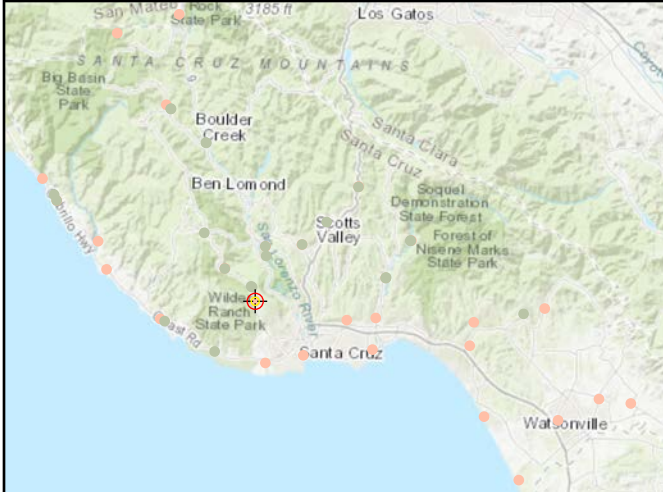
1st Return

Dz	-0.44 cm
Density	20.19 ppsm
Nearest	0.06 m
Slope	1.00°

Ground

Dz	-0.71 cm
Density	17.26 ppsm
Nearest	0.06 m
Slope	1.00°

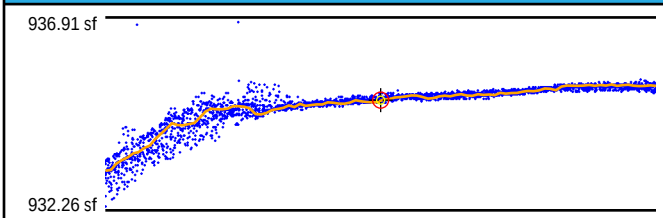
Project Context



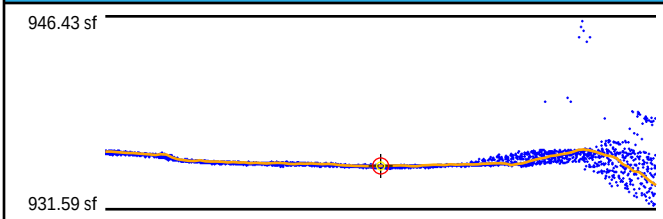
World Imagery



Cross Section - West to East



Cross Section - North to South



Intensity



1st Return TIN



DEM



BE011

General

Name	BE011
Type	NVA
Known Z	246.64 m
DEM Dz	-6.48 cm

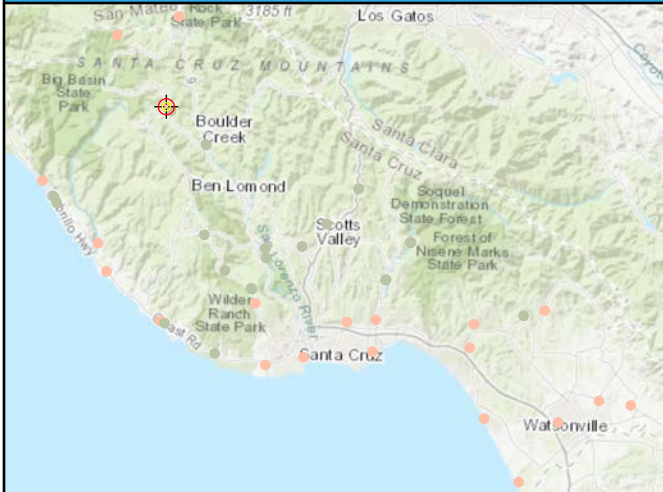
1st Return

Dz	-6.49 cm
Density	17.05 ppsm
Nearest	0.10 m
Slope	4.15°

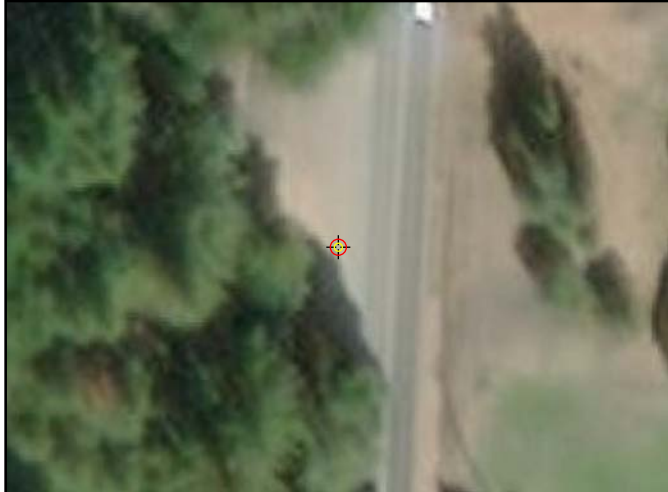
Ground

Dz	-6.49 cm
Density	17.33 ppsm
Nearest	0.10 m
Slope	4.15°

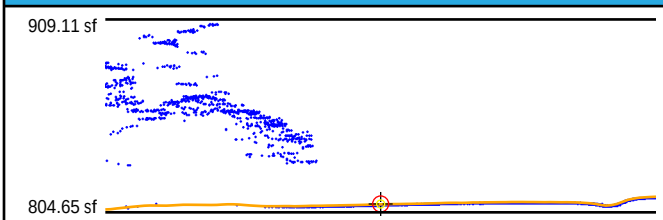
Project Context



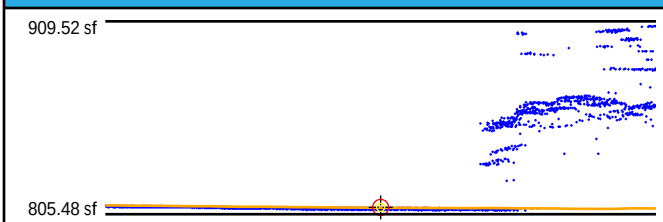
World Imagery



Cross Section - West to East



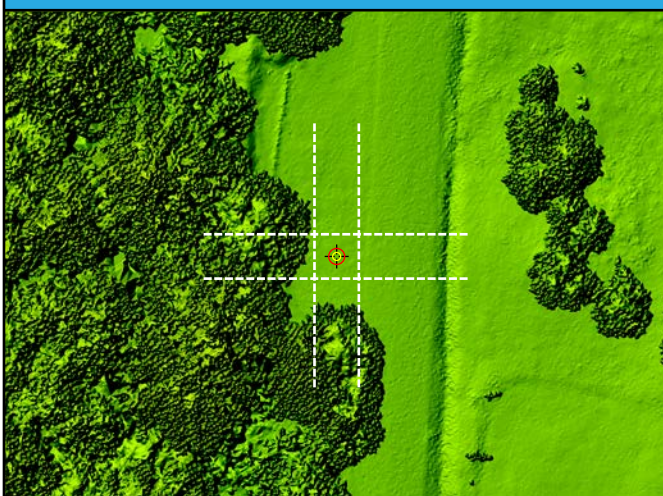
Cross Section - North to South



Intensity



1st Return TIN



DEM



BE012

General

Name	BE012
Type	NVA
Known Z	692.08 m
DEM Dz	-2.27 cm

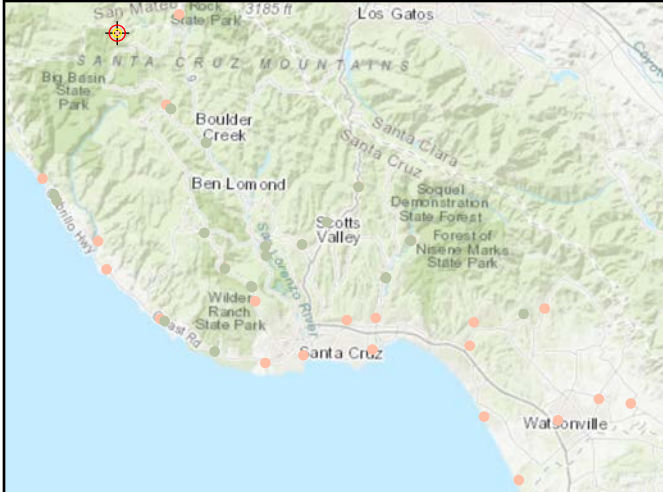
1st Return

Dz	-2.94 cm
Density	62.71 ppsm
Nearest	0.09 m
Slope	4.35°

Ground

Dz	-2.94 cm
Density	58.89 ppsm
Nearest	0.09 m
Slope	4.35°

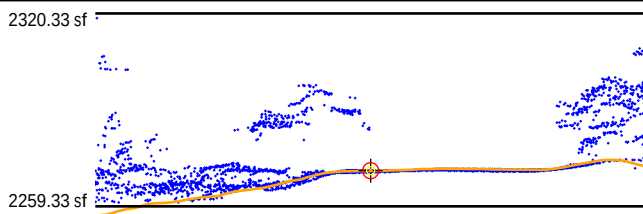
Project Context



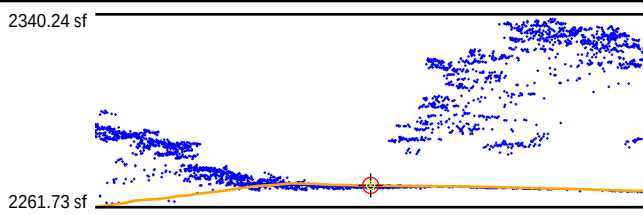
World Imagery



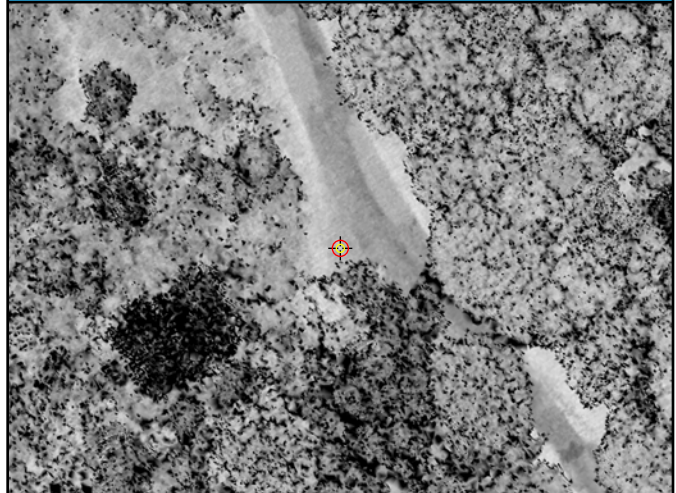
Cross Section - Southwest to Northeast



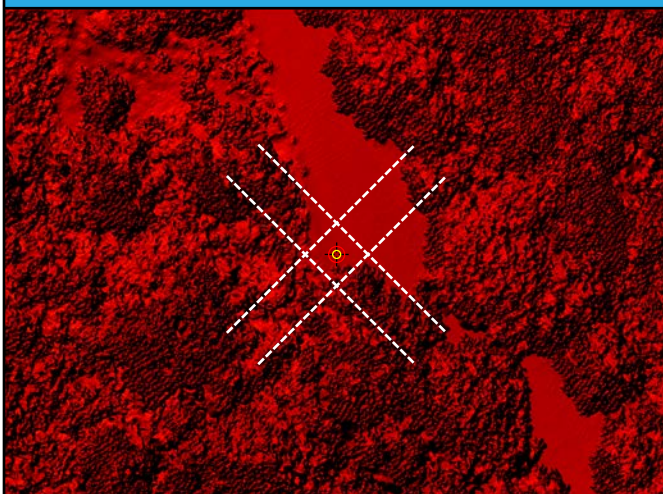
Cross Section - Northwest to Southeast



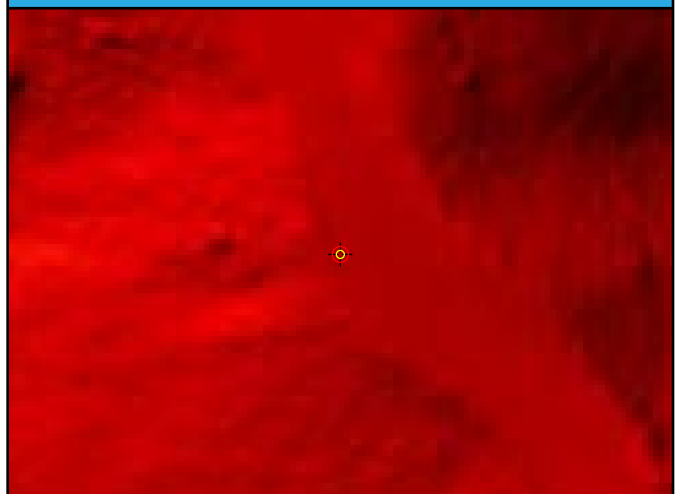
Intensity



1st Return TIN



DEM



BE013

General

Name	BE013
Type	NVA
Known Z	111.13 m
DEM Dz	3.42 cm

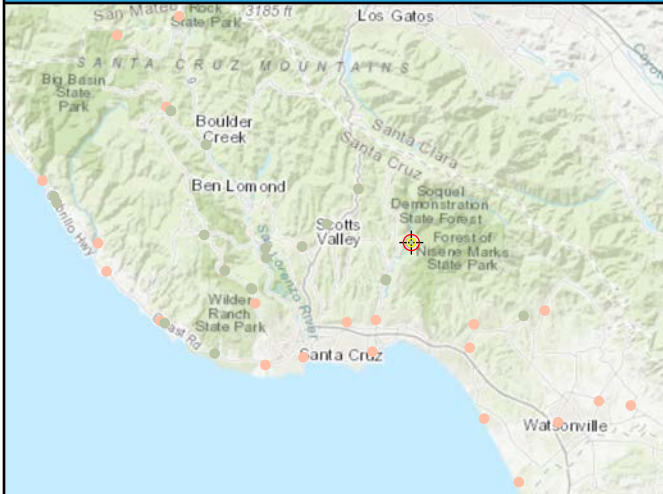
1st Return

Dz	3.26 cm
Density	42.94 ppsm
Nearest	0.12 m
Slope	2.29°

Ground

Dz	3.26 cm
Density	40.32 ppsm
Nearest	0.12 m
Slope	2.29°

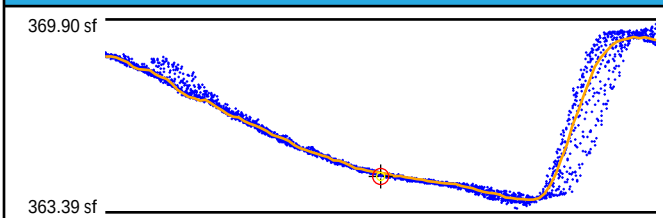
Project Context



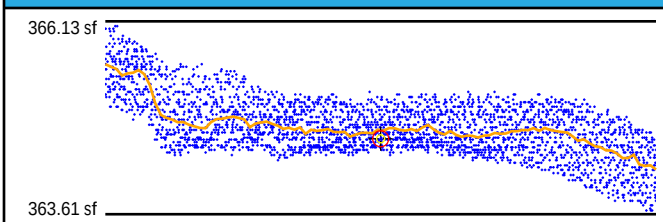
World Imagery



Cross Section - West to East



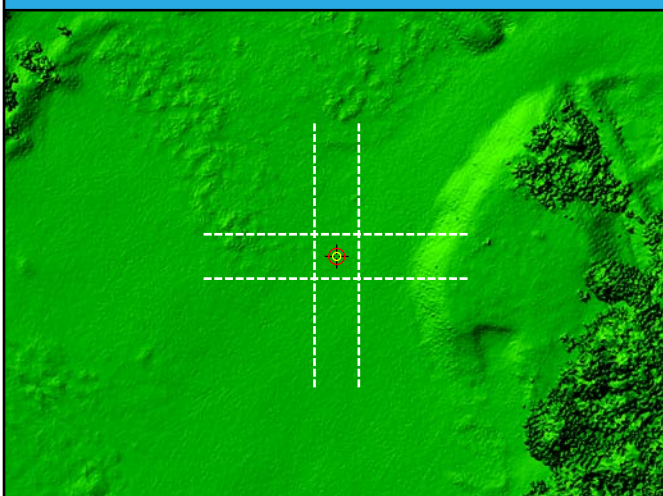
Cross Section - North to South



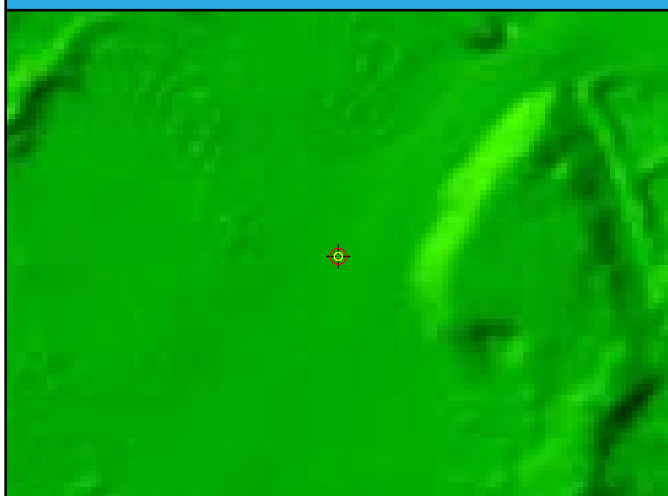
Intensity



1st Return TIN



DEM



BE014

General

Name	BE014
Type	NVA
Known Z	36.32 m
DEM Dz	-1.99 cm

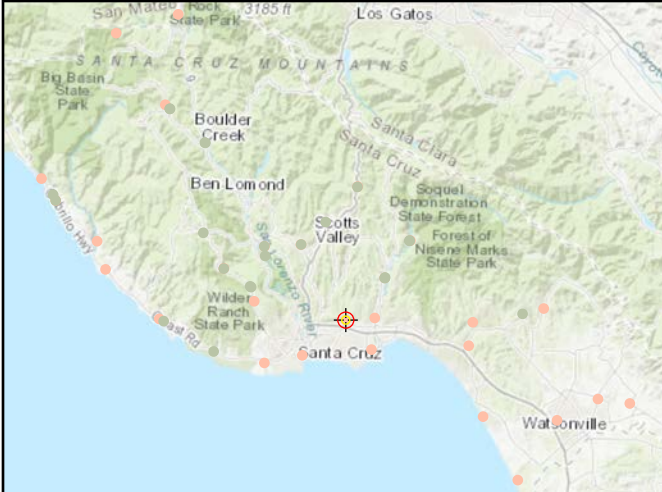
1st Return

Dz	-0.90 cm
Density	31.76 ppsm
Nearest	0.11 m
Slope	1.43°

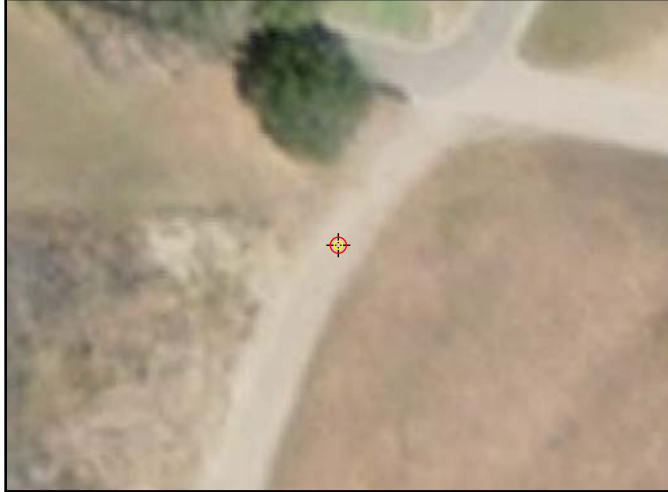
Ground

Dz	-1.91 cm
Density	25.75 ppsm
Nearest	0.14 m
Slope	1.43°

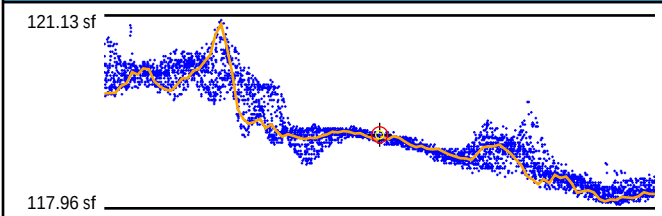
Project Context



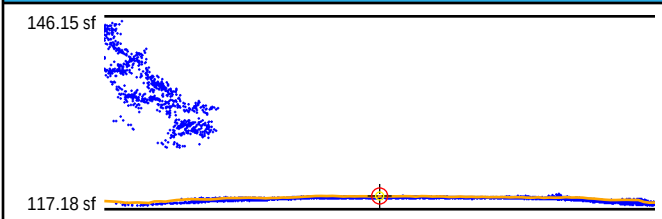
World Imagery



Cross Section - West to East



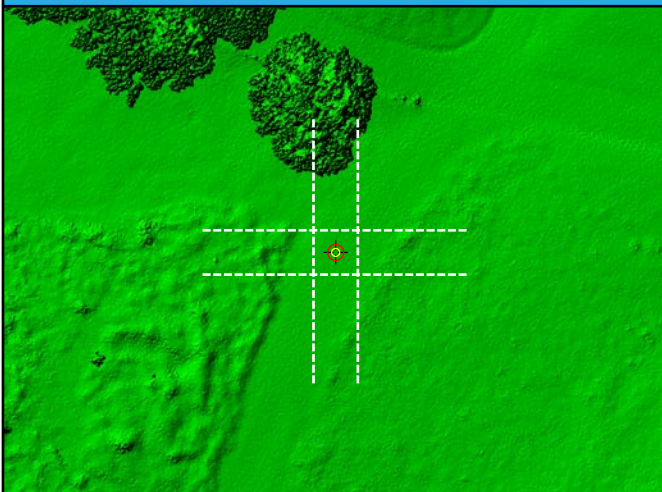
Cross Section - North to South



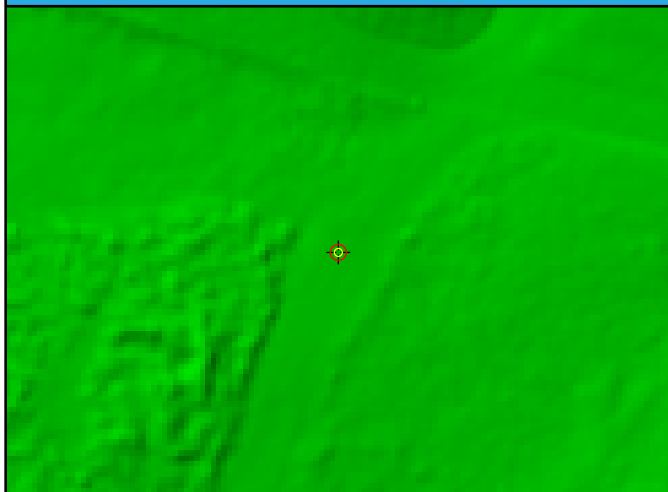
Intensity



1st Return TIN



DEM



BE015

General

Name	BE015
Type	NVA
Known Z	160.70 m
DEM Dz	-1.70 cm

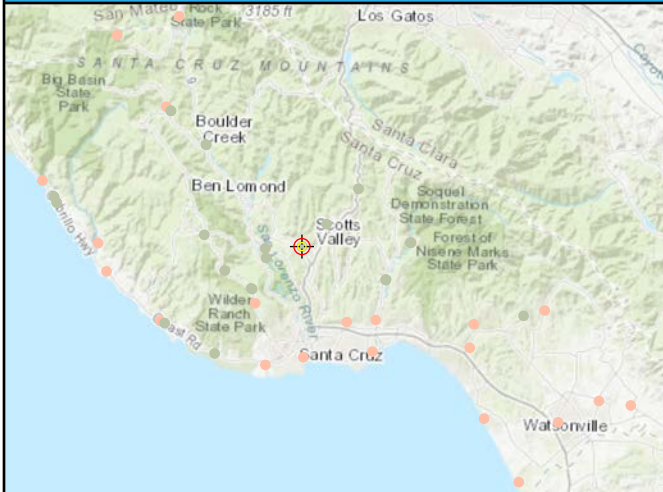
1st Return

Dz	-1.56 cm
Density	111.90 ppsm
Nearest	0.12 m
Slope	1.00°

Ground

Dz	-1.56 cm
Density	96.77 ppsm
Nearest	0.12 m
Slope	1.00°

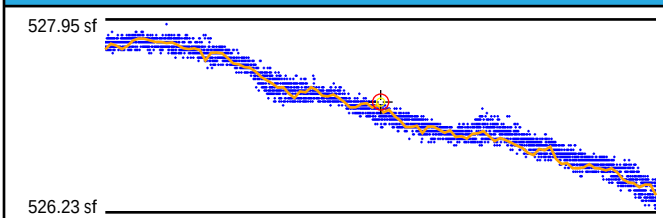
Project Context



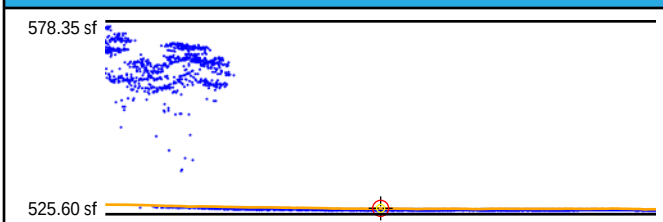
World Imagery



Cross Section - North to South



Cross Section - East to West



Intensity



1st Return TIN



DEM



BE016

General

Name	BE016
Type	NVA
Known Z	388.17 m
DEM Dz	2.61 cm

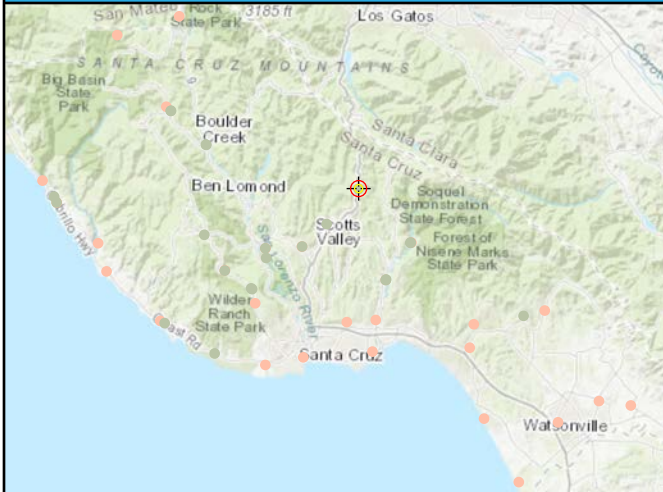
1st Return

Dz	2.41 cm
Density	152.79 ppsm
Nearest	0.03 m
Slope	1.43°

Ground

Dz	2.41 cm
Density	132.42 ppsm
Nearest	0.03 m
Slope	1.43°

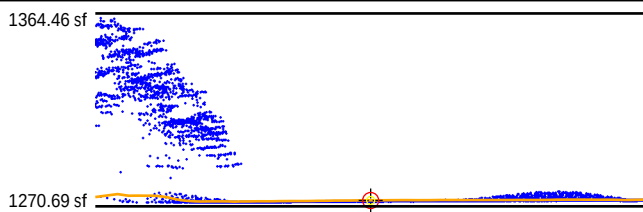
Project Context



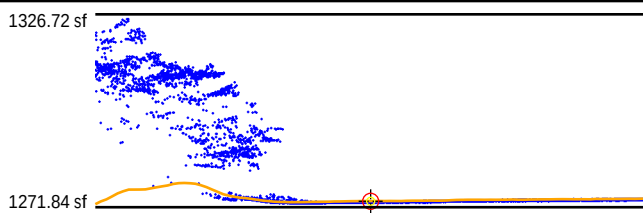
World Imagery



Cross Section - North to South



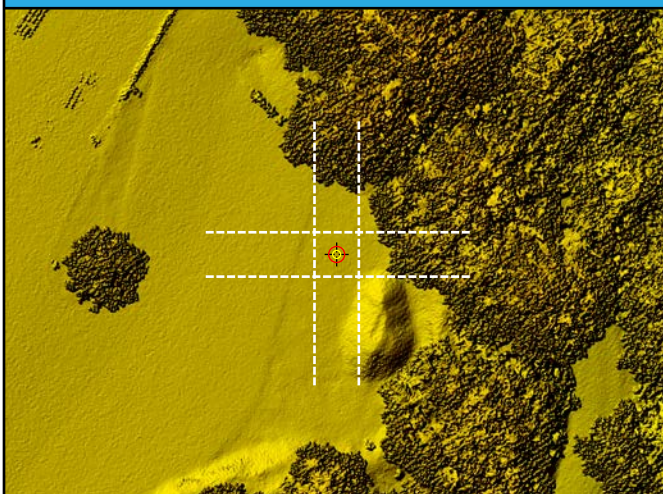
Cross Section - East to West



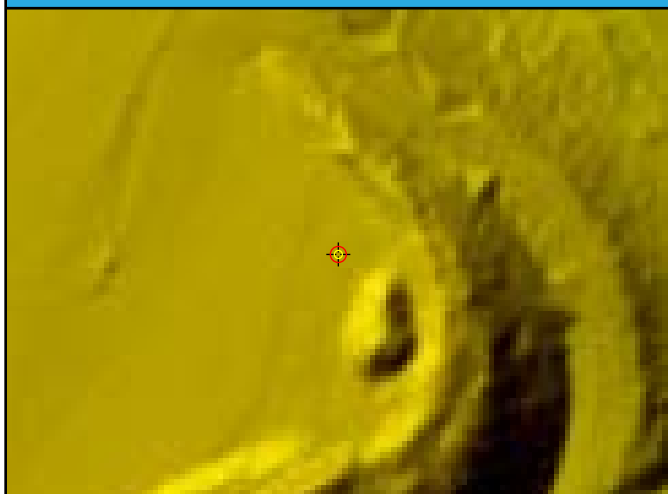
Intensity



1st Return TIN



DEM



BE018

General

Name	BE018
Type	NVA
Known Z	56.91 m
DEM Dz	1.59 cm

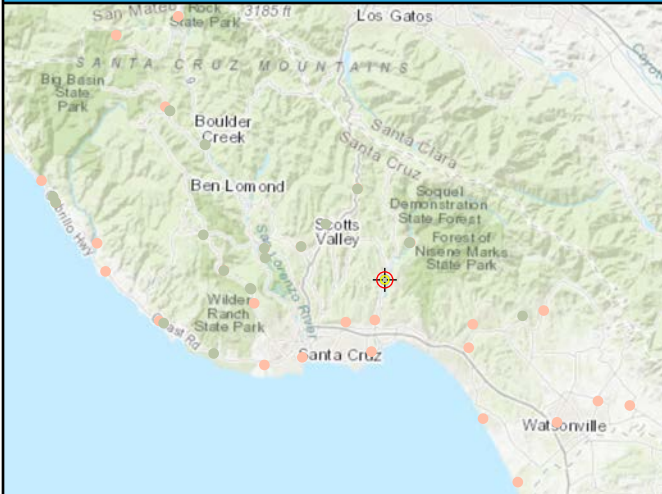
1st Return

Dz	1.86 cm
Density	203.29 ppsm
Nearest	0.08 m
Slope	1.86°

Ground

Dz	1.86 cm
Density	127.11 ppsm
Nearest	0.08 m
Slope	1.86°

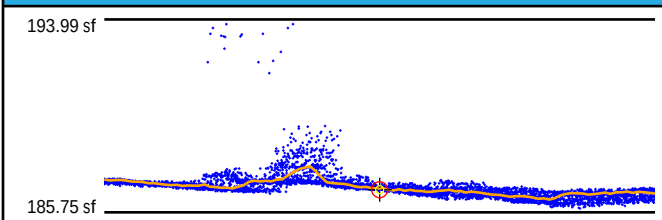
Project Context



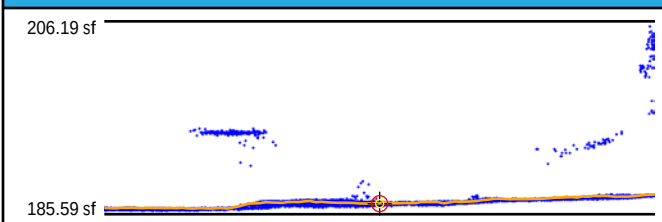
World Imagery



Cross Section - North to South



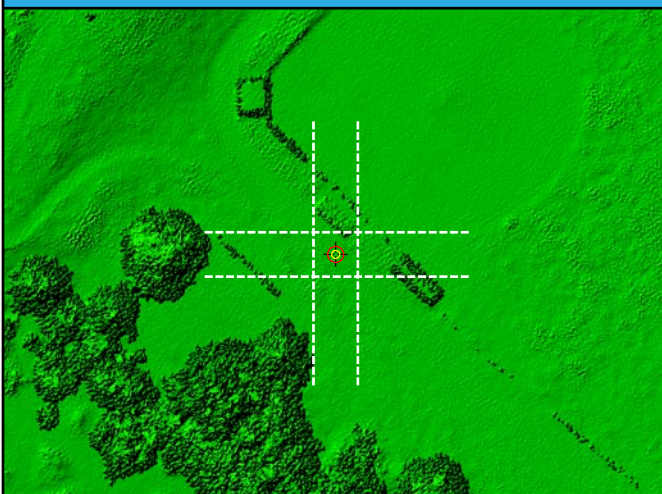
Cross Section - East to West



Intensity



1st Return TIN



DEM



BE019

General

Name	BE019
Type	NVA
Known Z	50.96 m
DEM Dz	9.97 cm

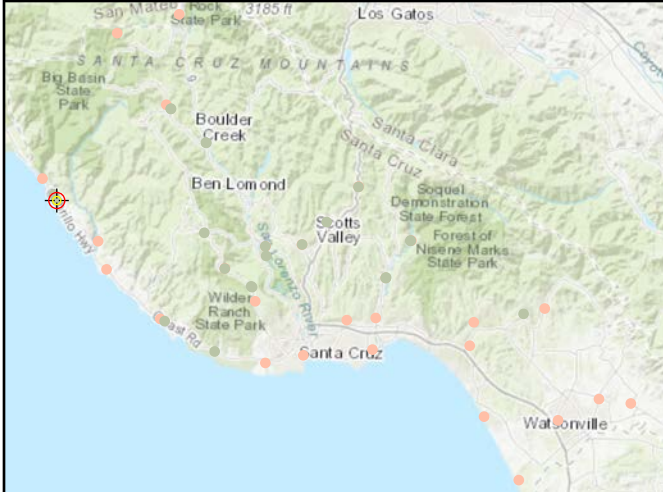
1st Return

Dz	8.97 cm
Density	57.30 ppsm
Nearest	0.15 m
Slope	2.93°

Ground

Dz	8.97 cm
Density	54.61 ppsm
Nearest	0.15 m
Slope	2.93°

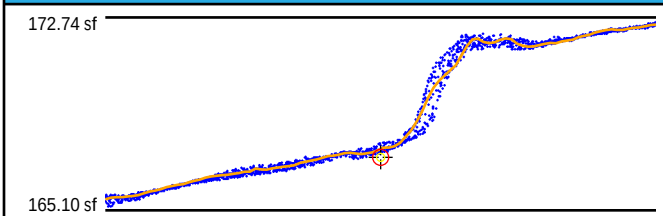
Project Context



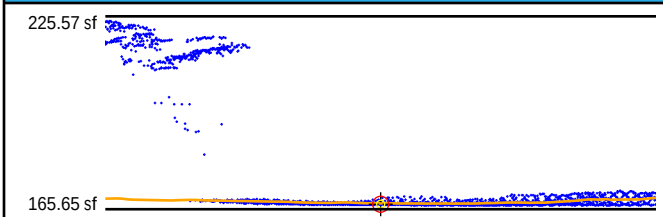
World Imagery



Cross Section - Southwest to Northeast



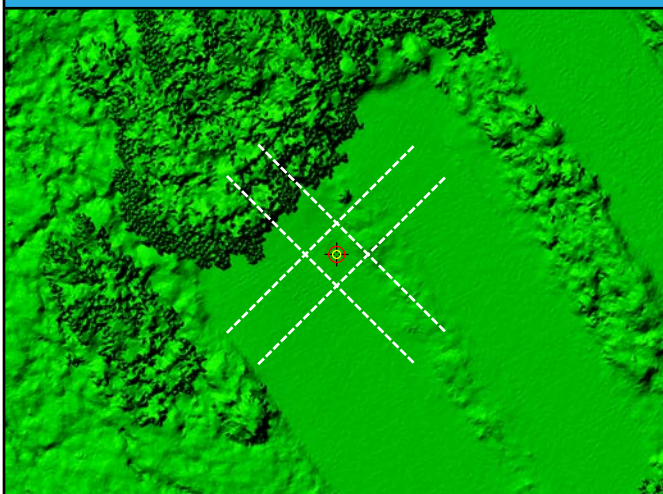
Cross Section - Northwest to Southeast



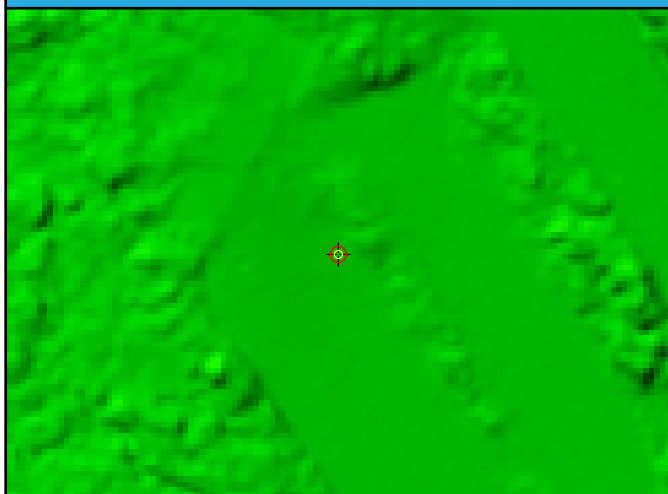
Intensity



1st Return TIN



DEM



BE020

General

Name	BE020
Type	NVA
Known Z	84.01 m
DEM Dz	-2.69 cm

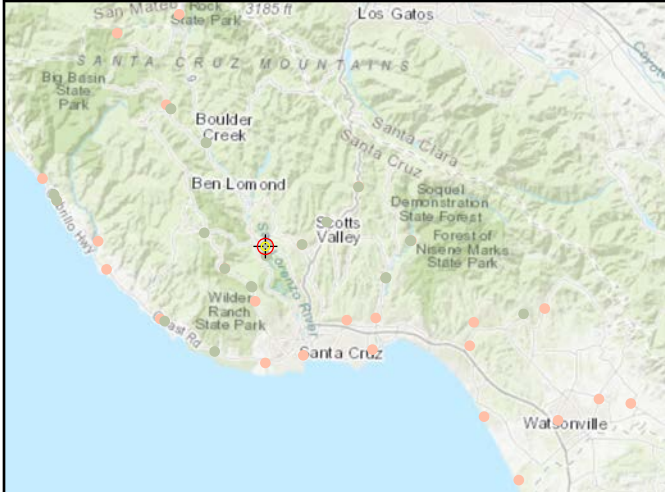
1st Return

Dz	-2.92 cm
Density	96.48 ppsm
Nearest	0.13 m
Slope	3.04°

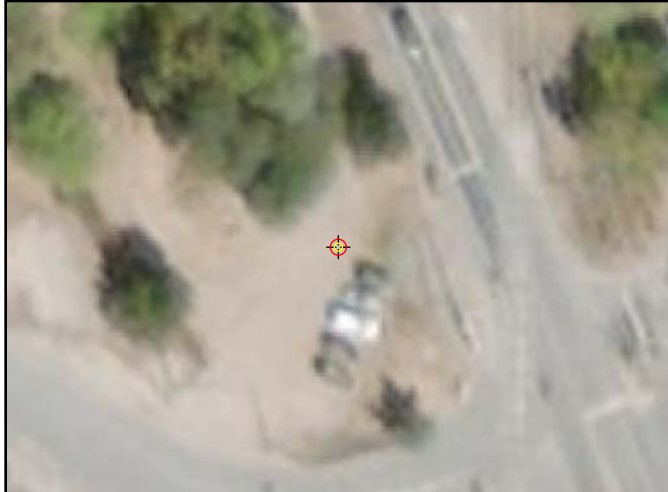
Ground

Dz	-2.92 cm
Density	80.92 ppsm
Nearest	0.13 m
Slope	3.04°

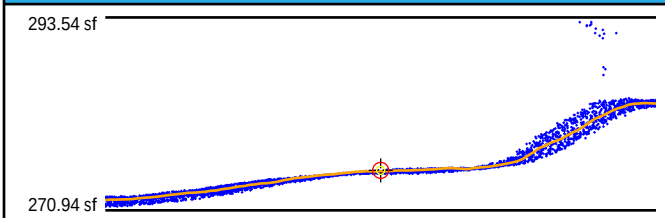
Project Context



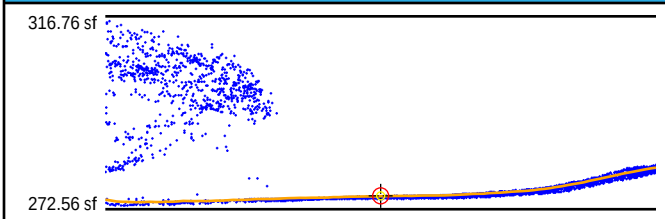
World Imagery



Cross Section - Southwest to Northeast



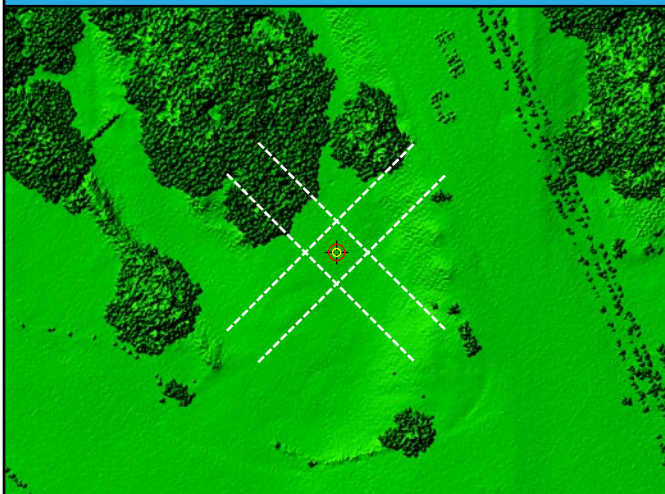
Cross Section - Northwest to Southeast



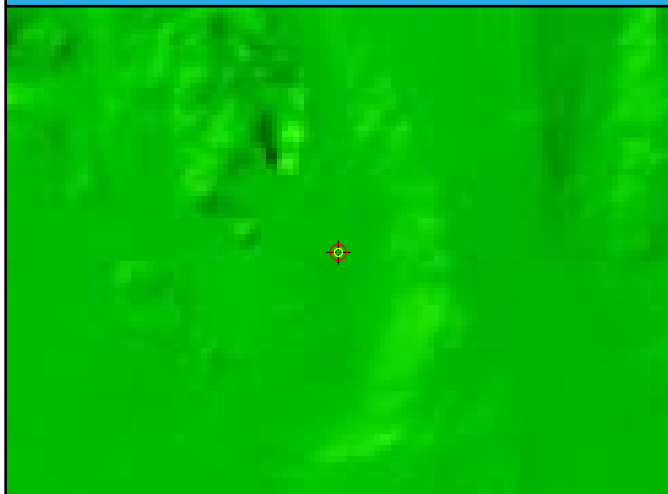
Intensity



1st Return TIN



DEM



UA001

General

Name	UA001
Type	NVA
Known Z	6.32 m
DEM Dz	7.67 cm

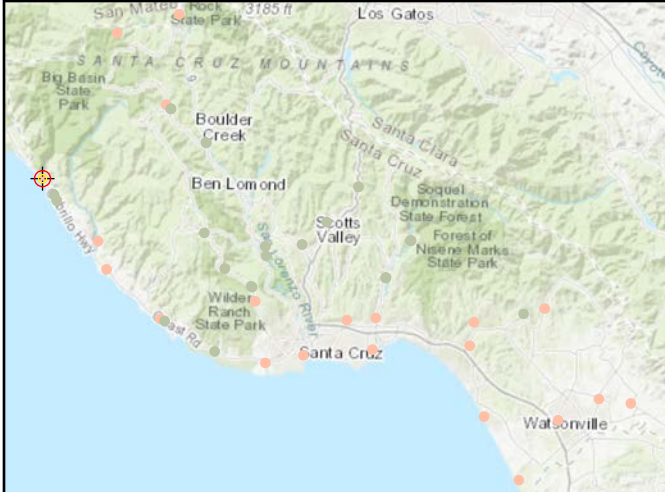
1st Return

Dz	6.44 cm
Density	38.90 ppsm
Nearest	0.14 m
Slope	1.43°

Ground

Dz	6.44 cm
Density	35.58 ppsm
Nearest	0.14 m
Slope	1.43°

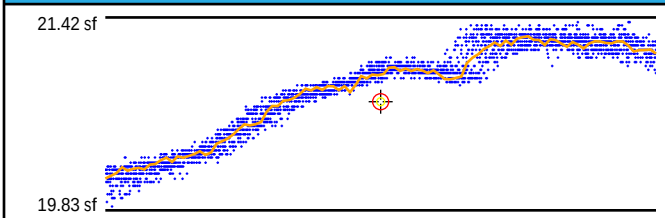
Project Context



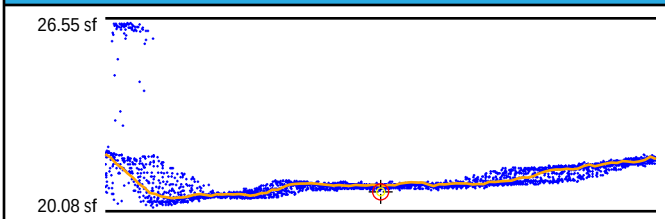
World Imagery



Cross Section - North to South



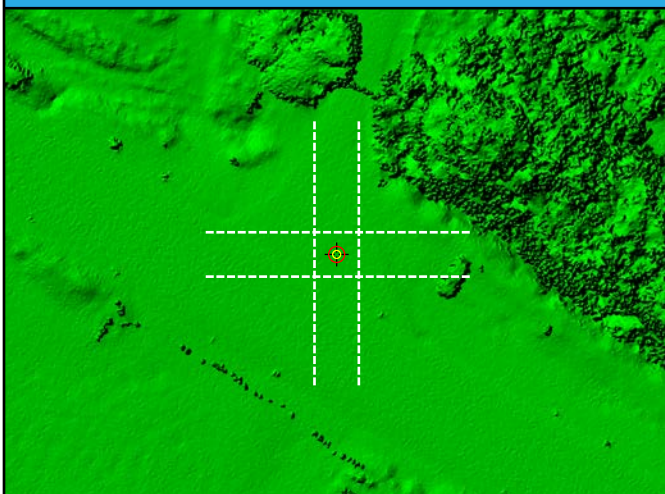
Cross Section - East to West



Intensity



1st Return TIN



DEM



UA002

General

Name	UA002
Type	NVA
Known Z	28.29 m
DEM Dz	5.75 cm

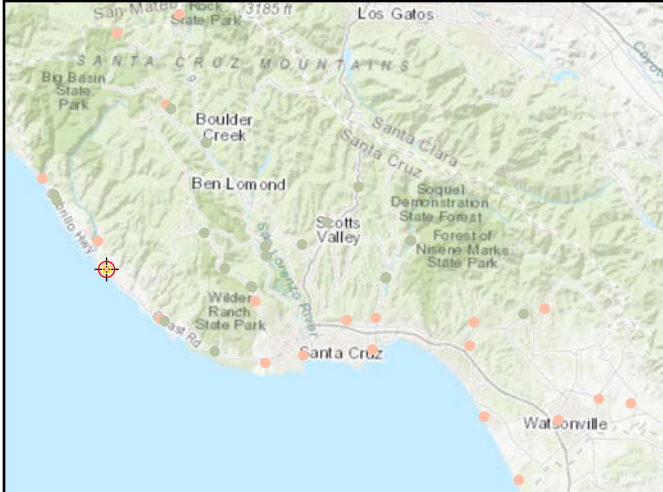
1st Return

Dz	5.46 cm
Density	33.03 ppsm
Nearest	0.07 m
Slope	3.94°

Ground

Dz	5.46 cm
Density	30.84 ppsm
Nearest	0.07 m
Slope	3.94°

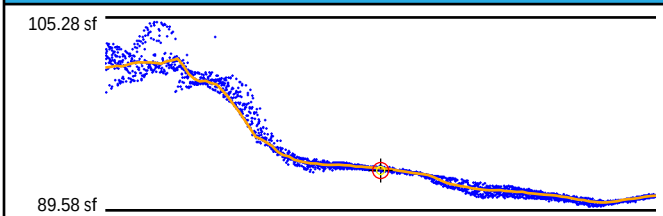
Project Context



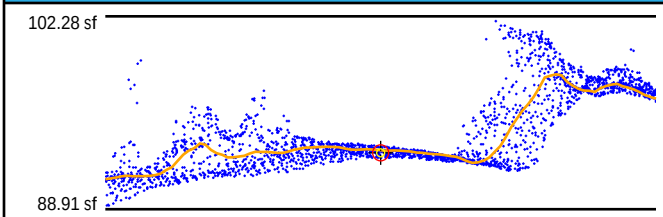
World Imagery



Cross Section - Northwest to Southeast



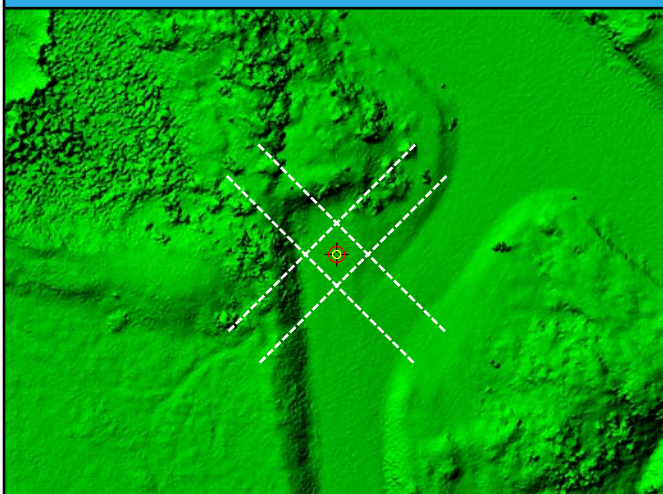
Cross Section - Northeast to Southwest



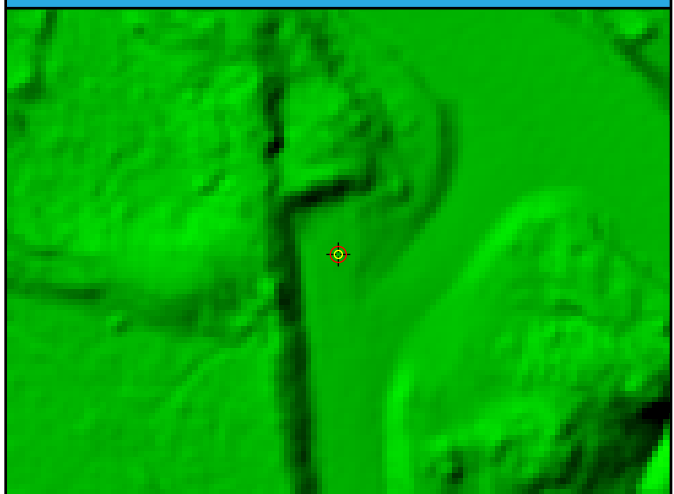
Intensity



1st Return TIN



DEM



UA003

General

Name	UA003
Type	NVA
Known Z	21.61 m
DEM Dz	-1.45 cm

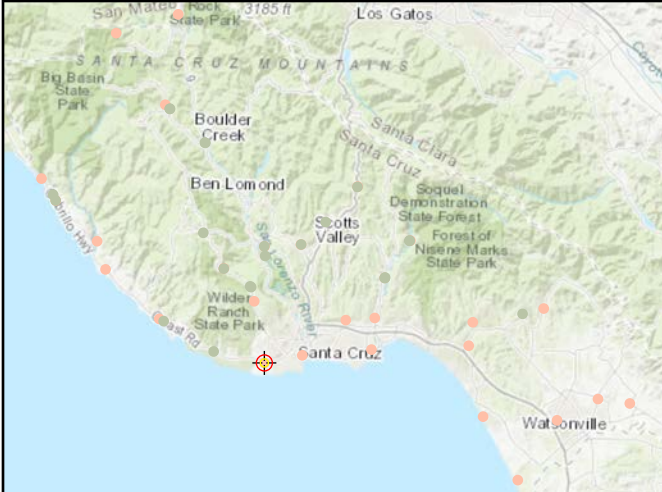
1st Return

Dz	-1.04 cm
Density	59.42 ppsm
Nearest	0.10 m
Slope	1.43°

Ground

Dz	-1.04 cm
Density	44.78 ppsm
Nearest	0.10 m
Slope	1.43°

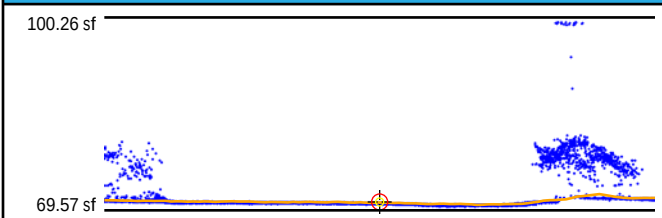
Project Context



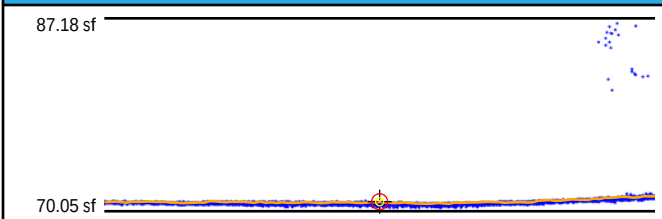
World Imagery



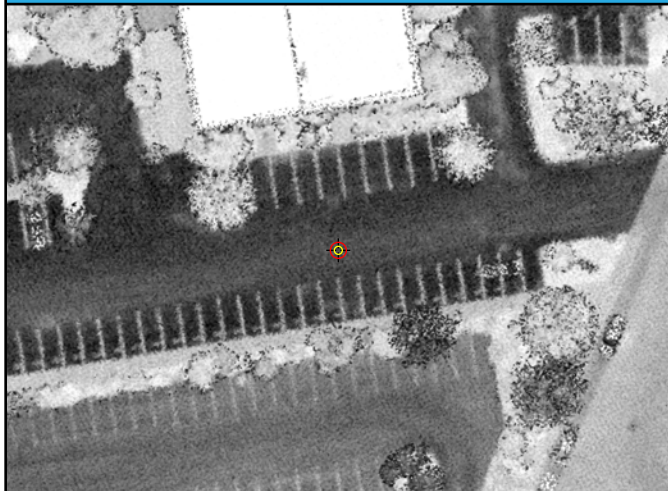
Cross Section - North to South



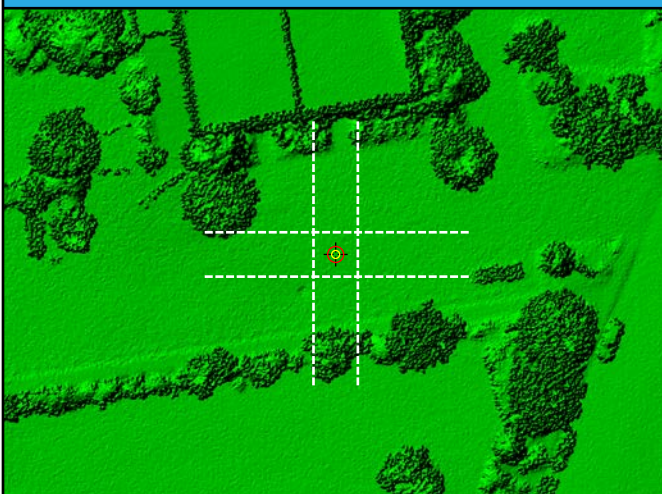
Cross Section - East to West



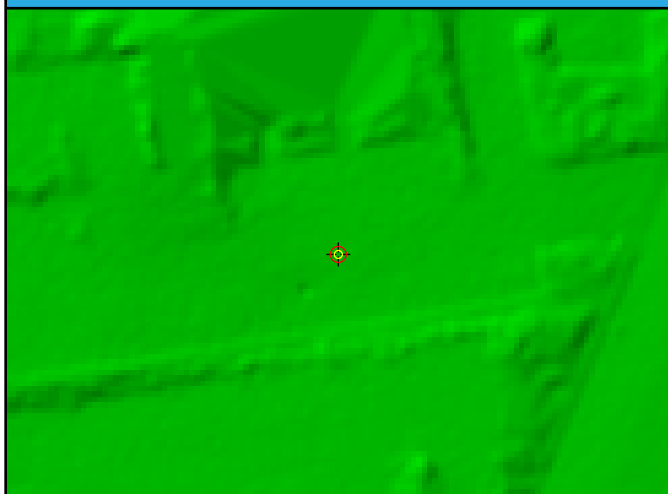
Intensity



1st Return TIN



DEM



UA004

General

Name	UA004
Type	NVA
Known Z	24.23 m
DEM Dz	0.21 cm

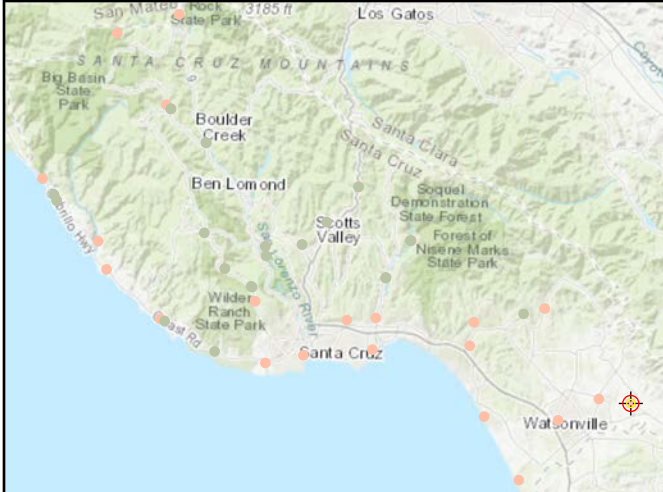
1st Return

Dz	0.65 cm
Density	40.32 ppsm
Nearest	0.13 m
Slope	11.49°

Ground

Dz	0.65 cm
Density	36.71 ppsm
Nearest	0.13 m
Slope	11.49°

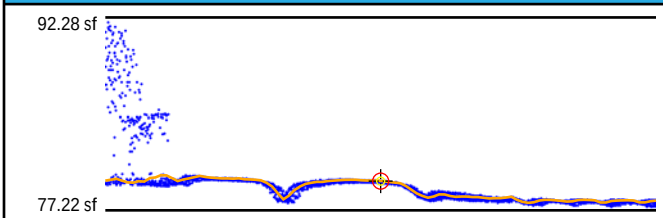
Project Context



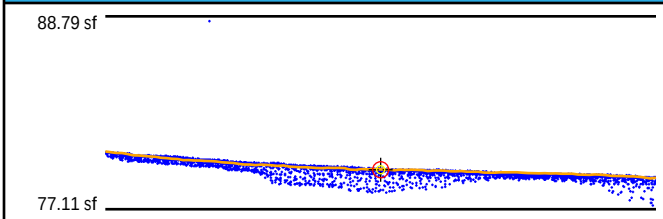
World Imagery



Cross Section - Northwest to Southeast



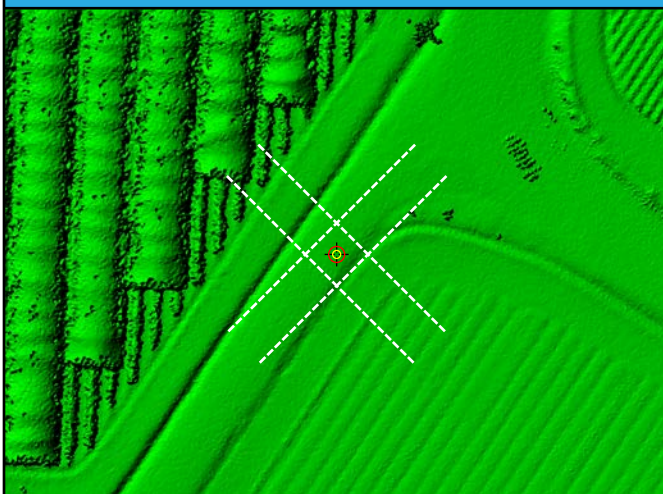
Cross Section - Northeast to Southwest



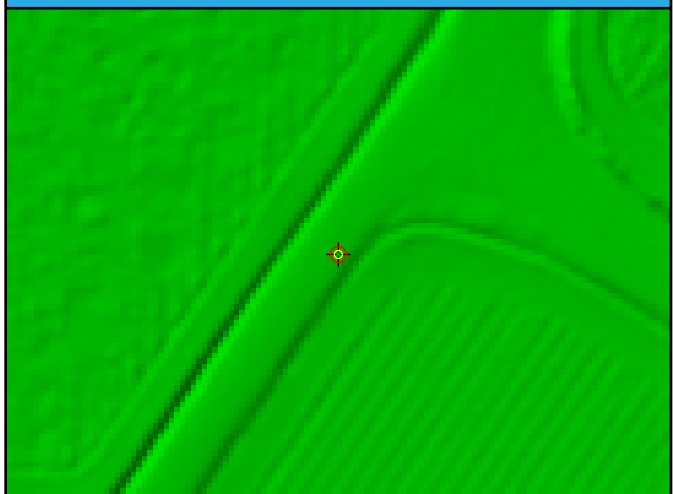
Intensity



1st Return TIN



DEM



UA005

General

Name	UA005
Type	NVA
Known Z	31.00 m
DEM Dz	1.22 cm

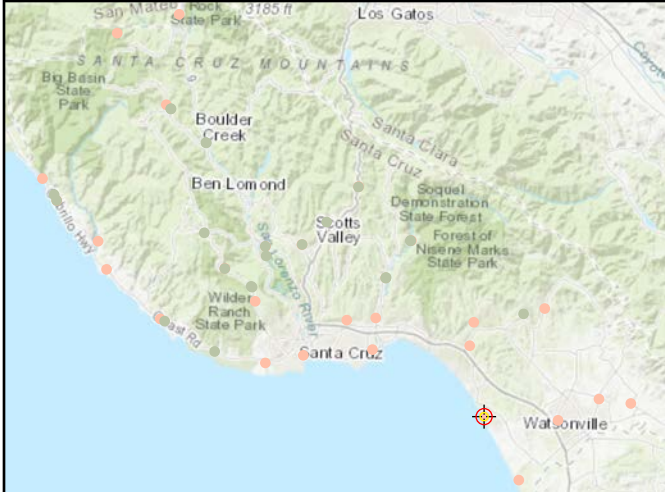
1st Return

Dz	1.63 cm
Density	25.75 ppsm
Nearest	0.07 m
Slope	3.72°

Ground

Dz	1.63 cm
Density	24.33 ppsm
Nearest	0.07 m
Slope	3.72°

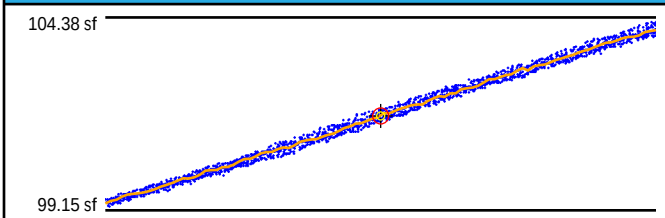
Project Context



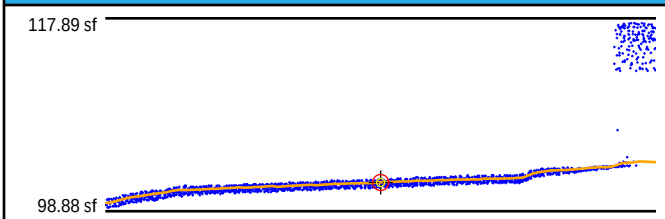
World Imagery



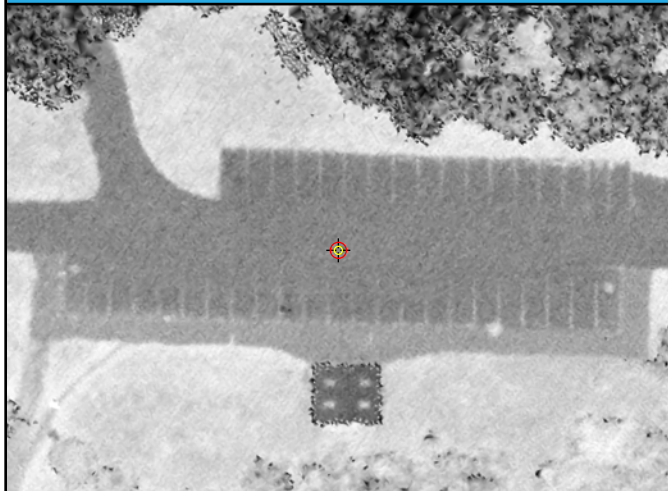
Cross Section - West to East



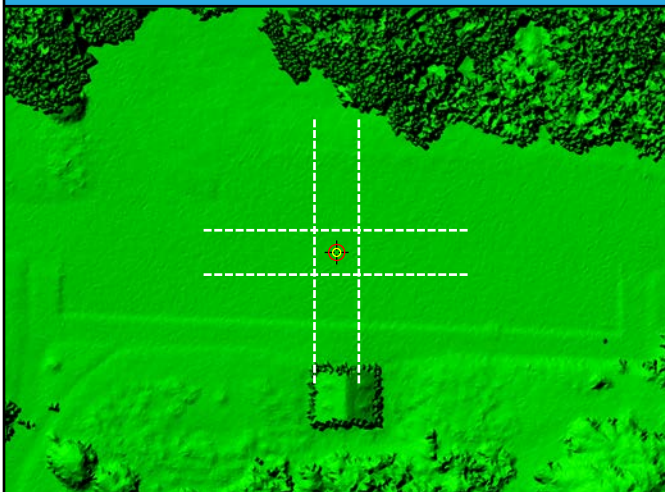
Cross Section - North to South



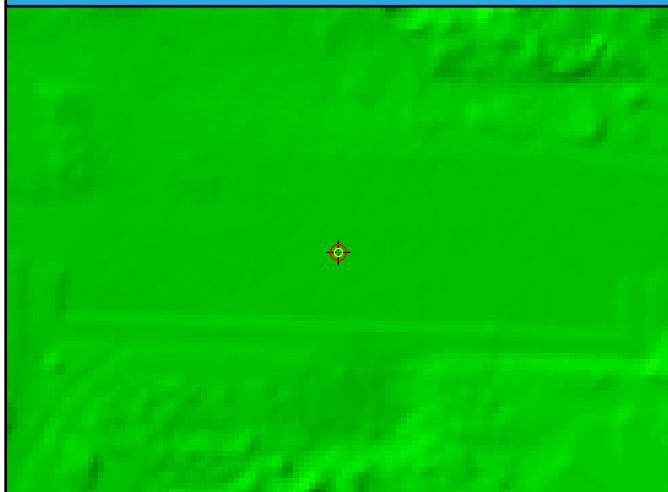
Intensity



1st Return TIN



DEM



UA006

General

Name	UA006
Type	NVA
Known Z	59.15 m
DEM Dz	-0.72 cm

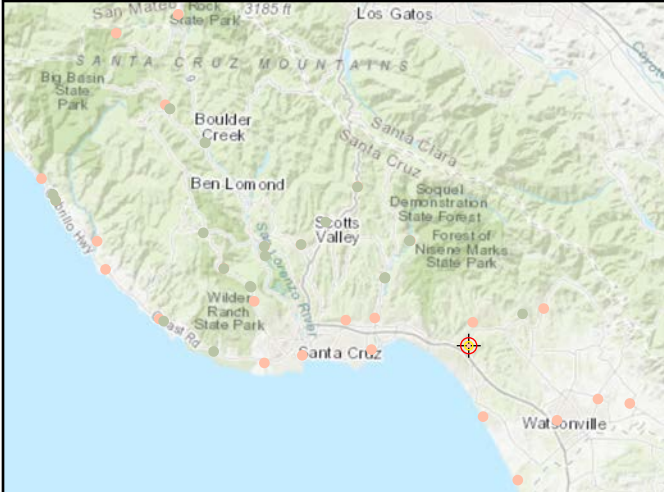
1st Return

Dz	0.47 cm
Density	57.30 ppsm
Nearest	0.09 m
Slope	2.93°

Ground

Dz	0.18 cm
Density	46.61 ppsm
Nearest	0.09 m
Slope	2.93°

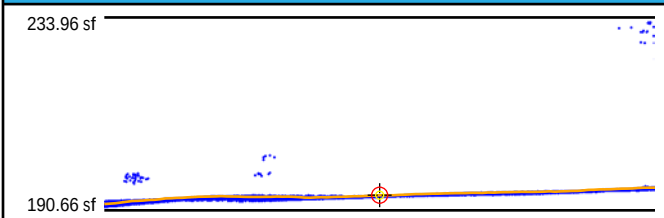
Project Context



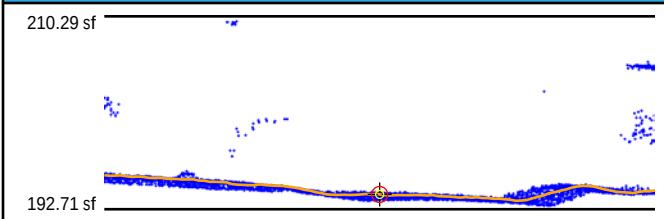
World Imagery



Cross Section - Northwest to Southeast



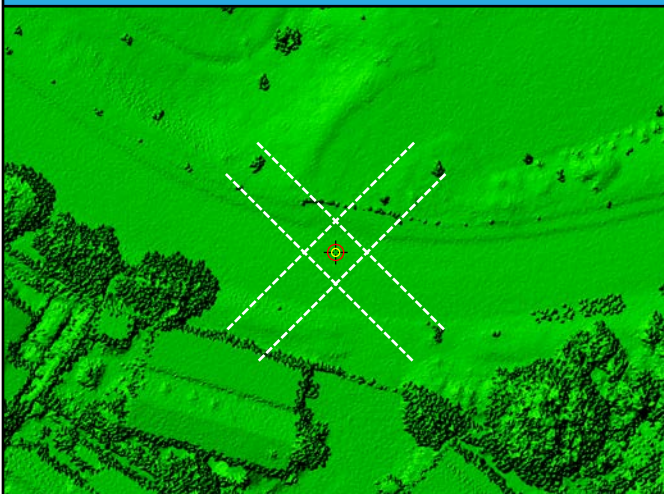
Cross Section - Northeast to Southwest



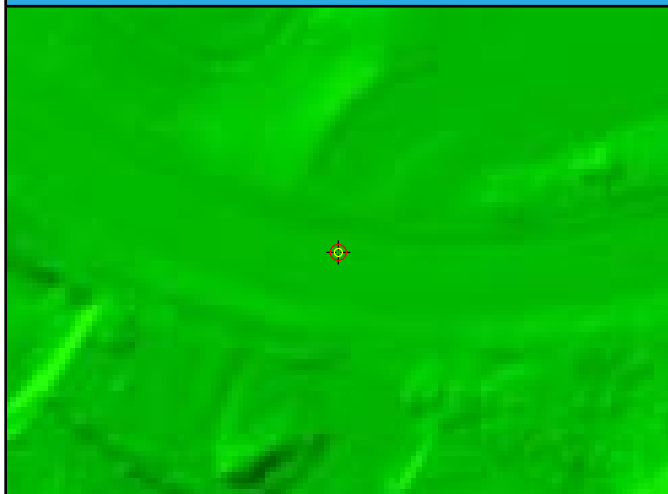
Intensity



1st Return TIN



DEM



UA007

General

Name	UA007
Type	NVA
Known Z	476.07 m
DEM Dz	1.14 cm

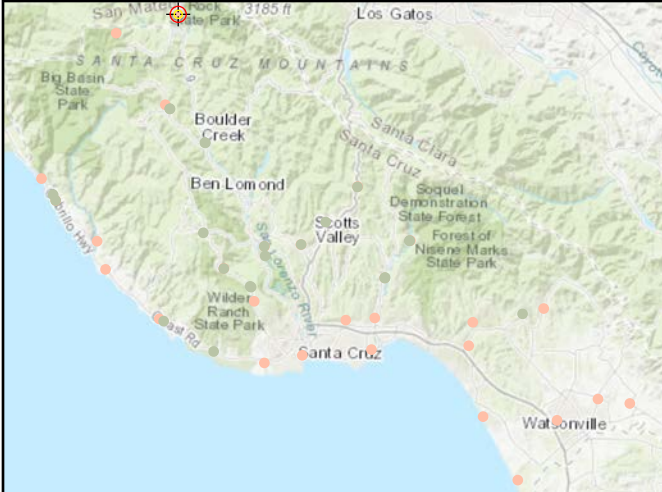
1st Return

Dz	0.42 cm
Density	74.06 ppsm
Nearest	0.03 m
Slope	4.95°

Ground

Dz	0.42 cm
Density	70.98 ppsm
Nearest	0.03 m
Slope	4.95°

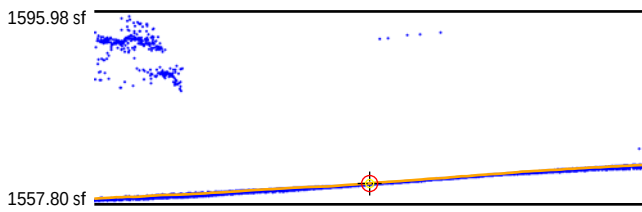
Project Context



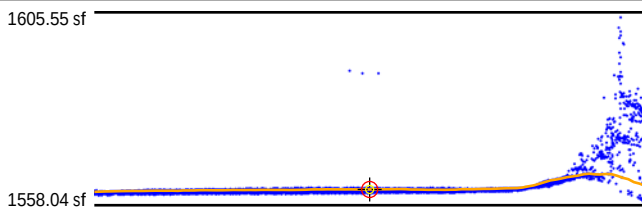
World Imagery



Cross Section - Southwest to Northeast



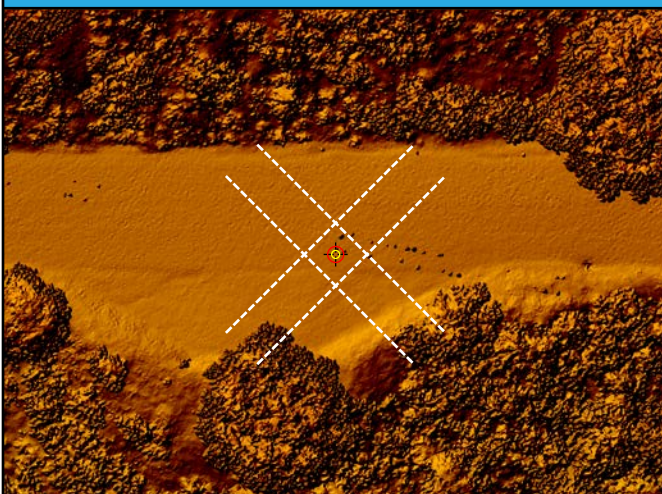
Cross Section - Northwest to Southeast



Intensity



1st Return TIN



DEM



UA008

General

Name	UA008
Type	NVA
Known Z	21.93 m
DEM Dz	4.95 cm

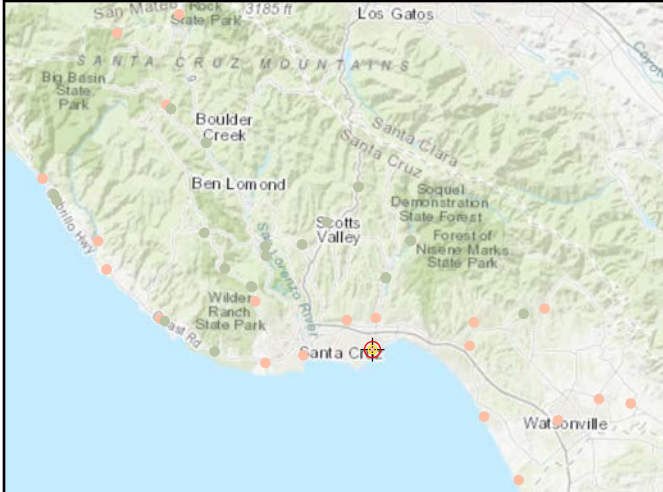
1st Return

Dz	4.84 cm
Density	25.89 ppsm
Nearest	0.18 m
Slope	1.43°

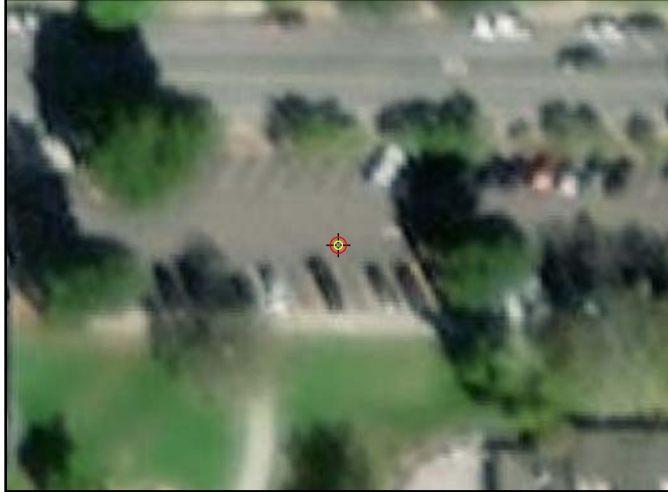
Ground

Dz	4.84 cm
Density	24.33 ppsm
Nearest	0.18 m
Slope	1.43°

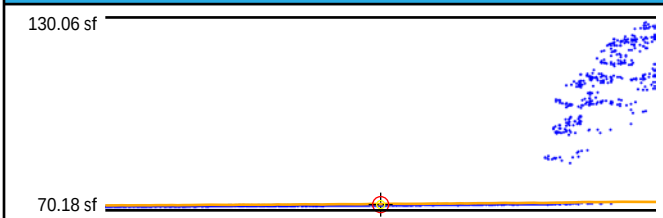
Project Context



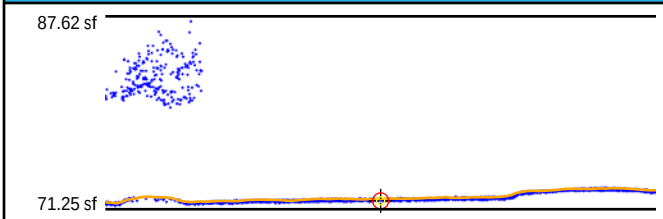
World Imagery



Cross Section - West to East



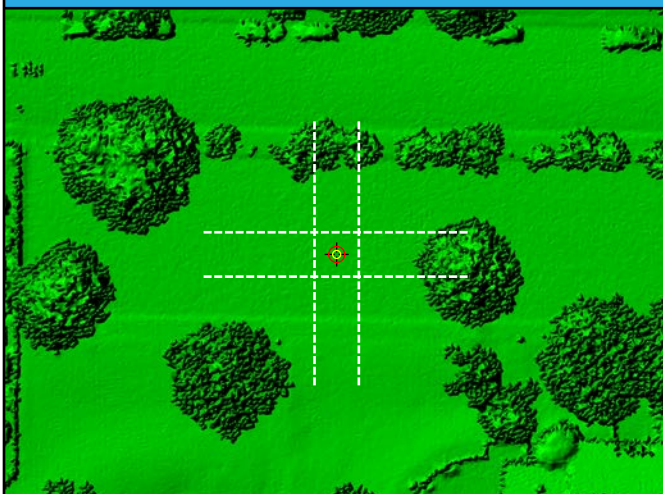
Cross Section - North to South



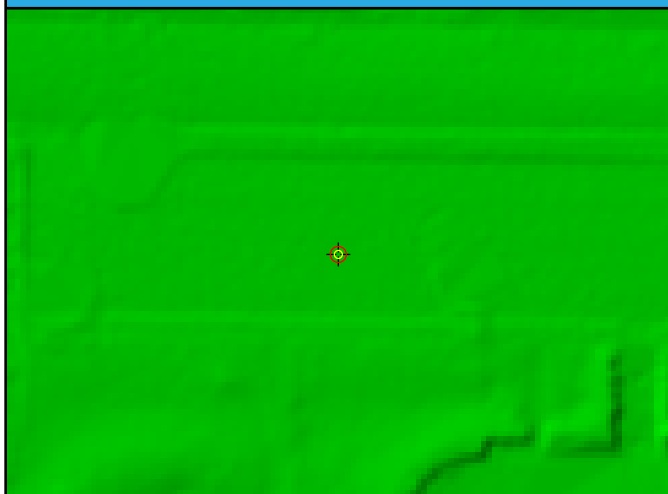
Intensity



1st Return TIN



DEM



UA009

General

Name	UA009
Type	NVA
Known Z	4.46 m
DEM Dz	-6.30 cm

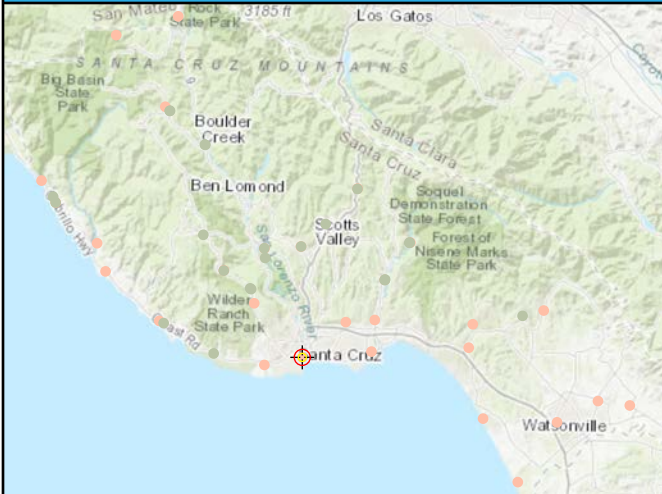
1st Return

Dz	-6.99 cm
Density	61.47 ppsm
Nearest	0.06 m
Slope	0.86°

Ground

Dz	-7.39 cm
Density	48.24 ppsm
Nearest	0.06 m
Slope	0.86°

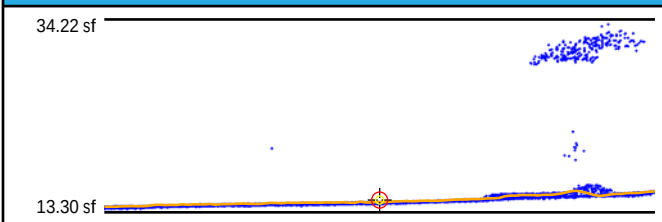
Project Context



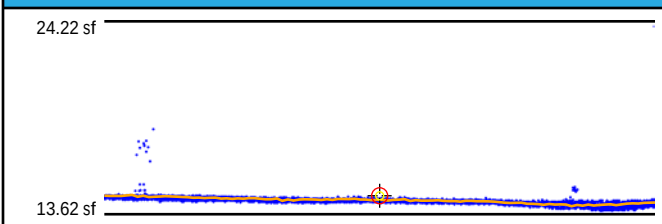
World Imagery



Cross Section - West to East



Cross Section - North to South



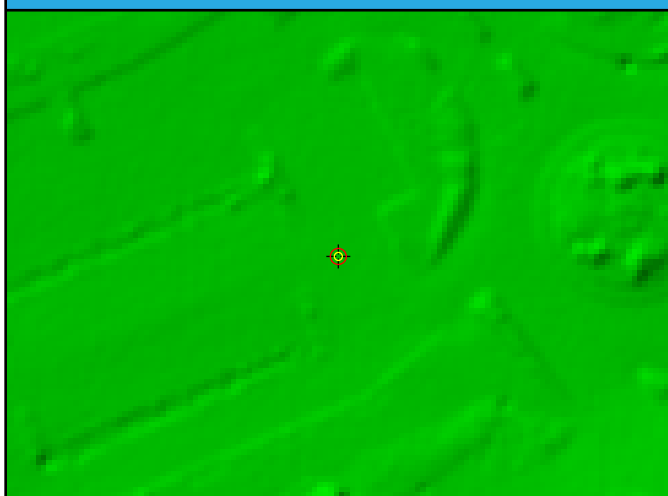
Intensity



1st Return TIN



DEM



UA010

General

Name	UA010
Type	NVA
Known Z	14.21 m
DEM Dz	-3.56 cm

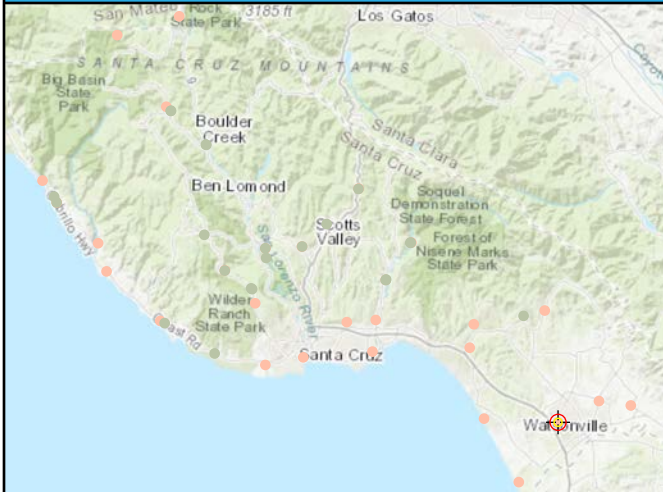
1st Return

Dz	-3.30 cm
Density	50.51 ppsm
Nearest	0.09 m
Slope	2.72°

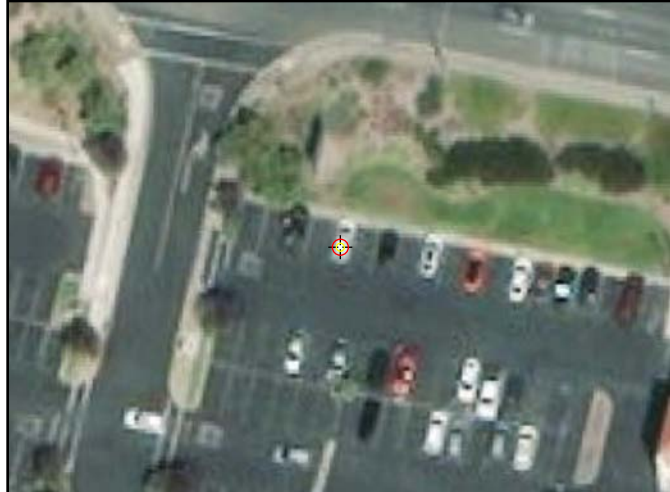
Ground

Dz	-3.30 cm
Density	33.25 ppsm
Nearest	0.09 m
Slope	2.72°

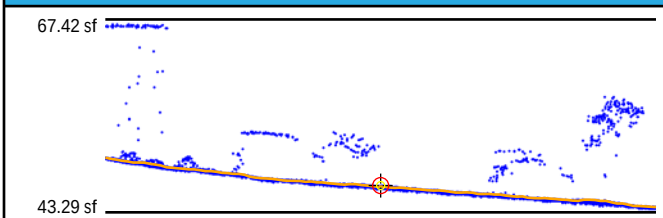
Project Context



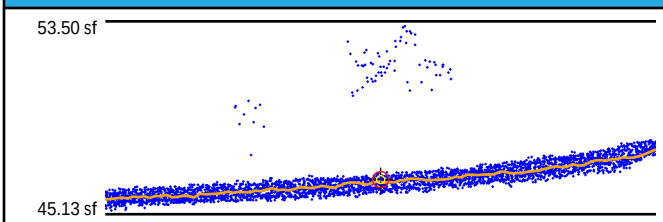
World Imagery



Cross Section - North to South



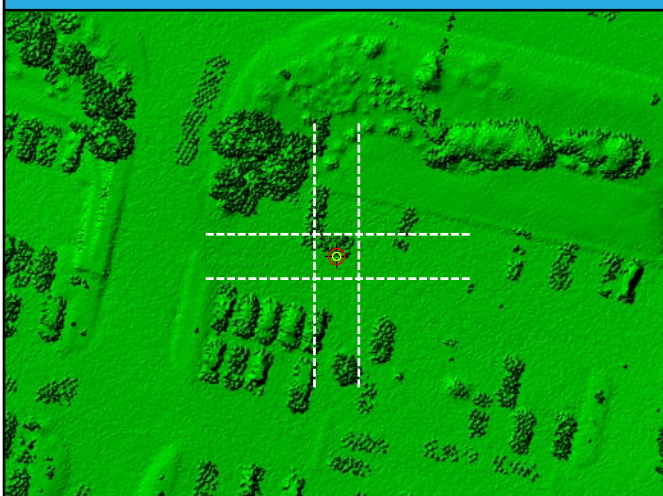
Cross Section - East to West



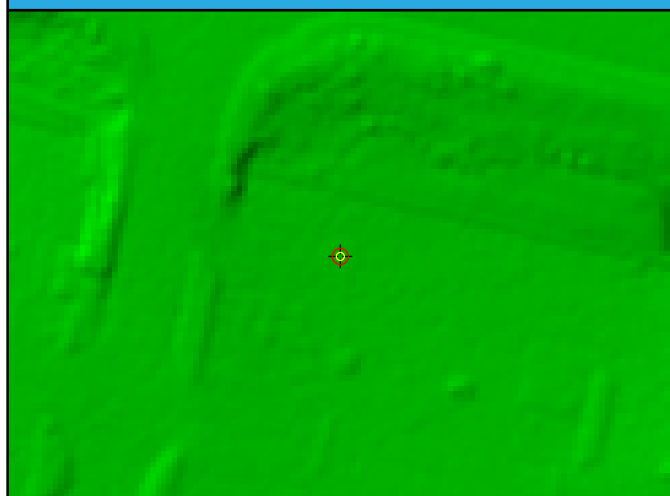
Intensity



1st Return TIN



DEM



FR001

General

Name	FR001
Type	VVA
Known Z	336.85 m
DEM Dz	3.48 cm

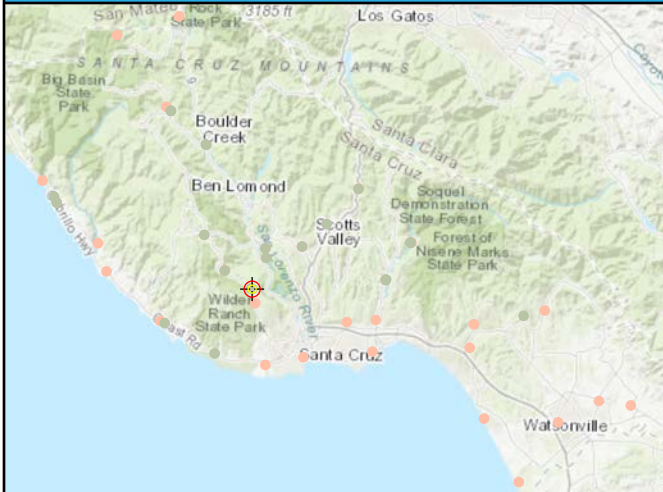
1st Return

Dz	-
Density	40.74 ppsm
Nearest	0.04 m
Slope	74.27°

Ground

Dz	0.81 cm
Density	17.97 ppsm
Nearest	0.21 m
Slope	3.72°

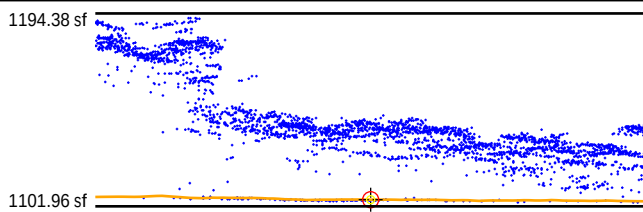
Project Context



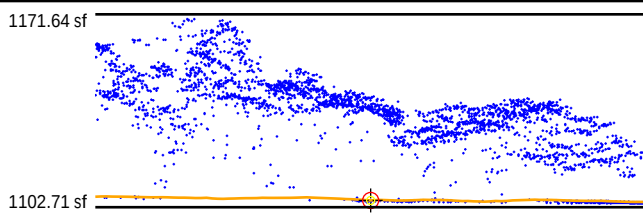
World Imagery



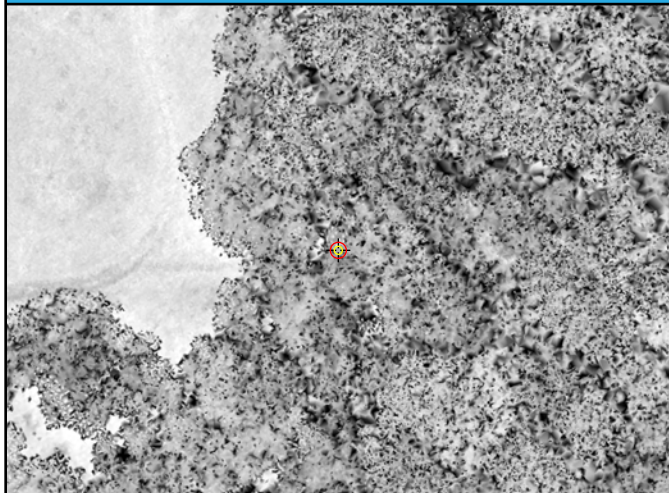
Cross Section - North to South



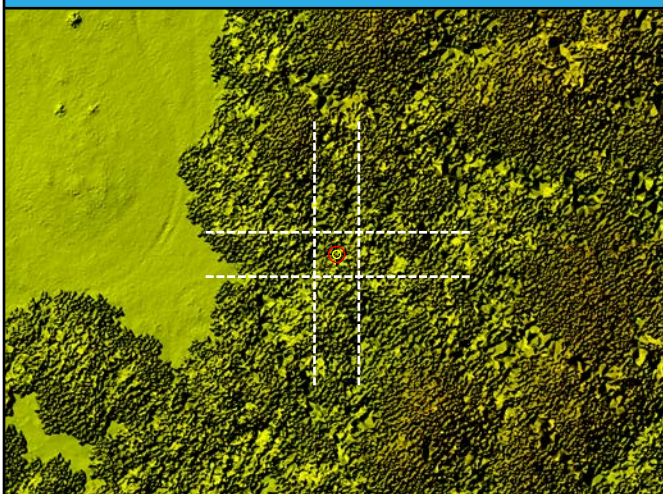
Cross Section - East to West



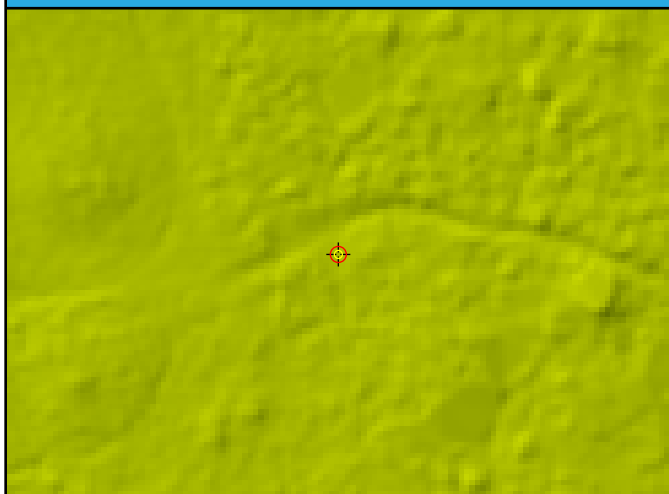
Intensity



1st Return TIN



DEM



DEM Dz 3.48 cm

FR001 (VVA)

FR002

General

Name	FR002
Type	VVA
Known Z	161.04 m
DEM Dz	0.51 cm

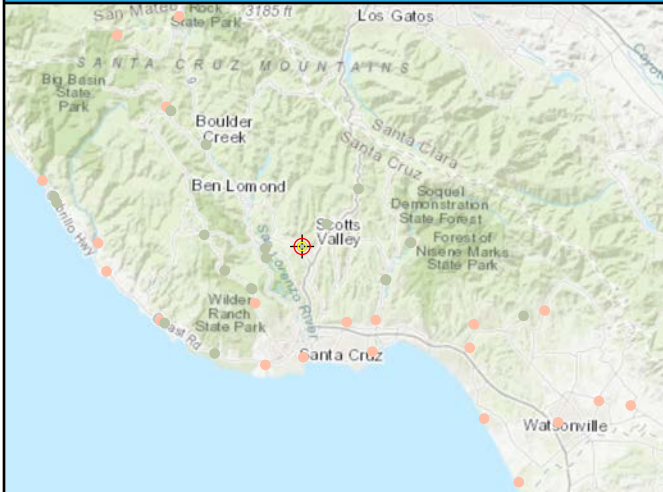
1st Return

Dz	-
Density	115.86 ppsm
Nearest	0.10 m
Slope	81.81°

Ground

Dz	0.22 cm
Density	18.53 ppsm
Nearest	0.21 m
Slope	5.57°

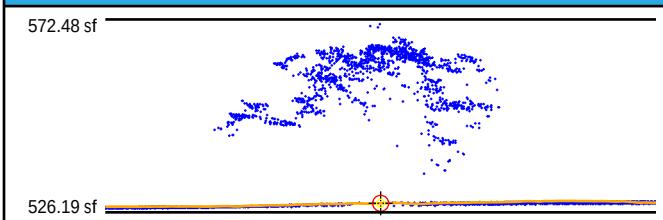
Project Context



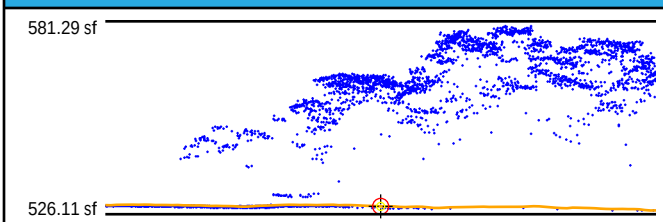
World Imagery



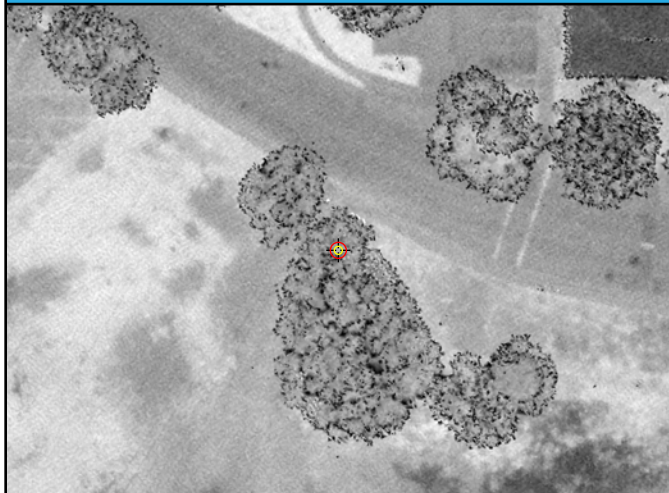
Cross Section - West to East



Cross Section - North to South



Intensity



1st Return TIN



DEM



FR003

General

Name	FR003
Type	VVA
Known Z	56.82 m
DEM Dz	3.30 cm

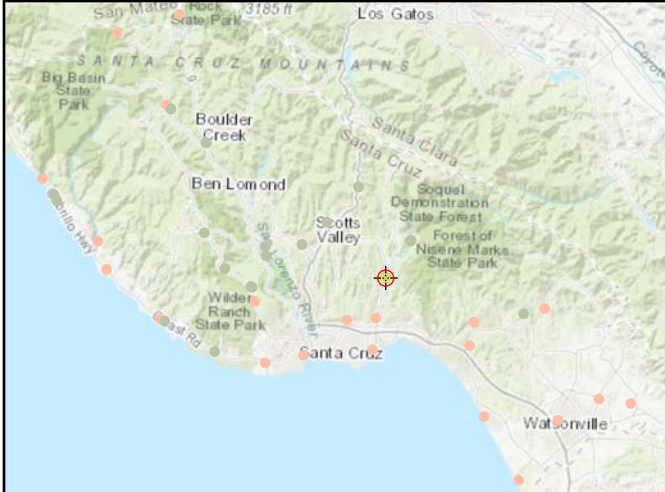
1st Return

Dz	-
Density	132.84 ppsm
Nearest	0.07 m
Slope	68.78°

Ground

Dz	3.26 cm
Density	5.38 ppsm
Nearest	0.31 m
Slope	2.02°

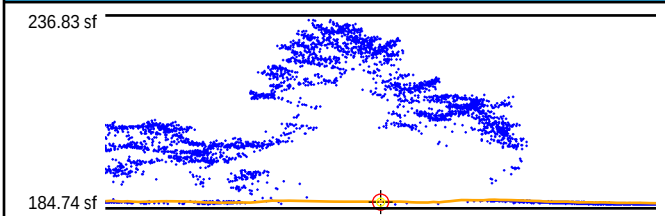
Project Context



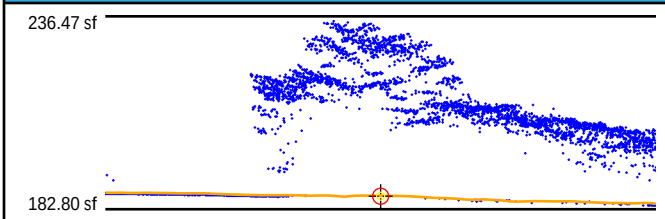
World Imagery



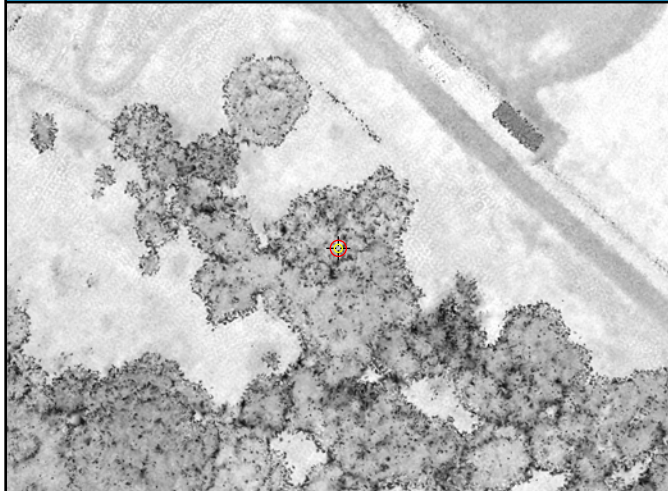
Cross Section - West to East



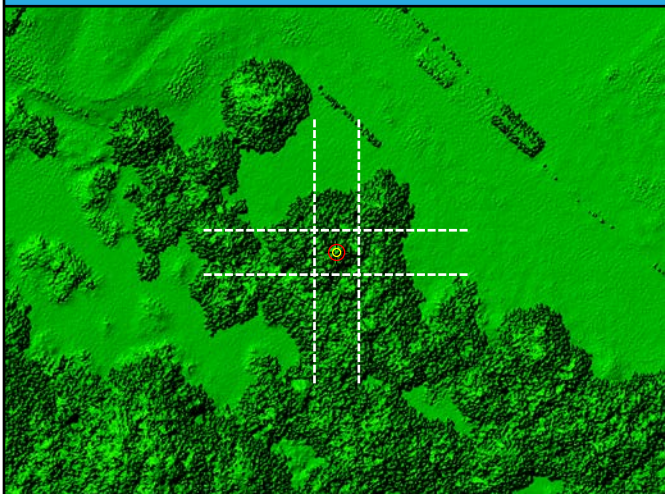
Cross Section - North to South



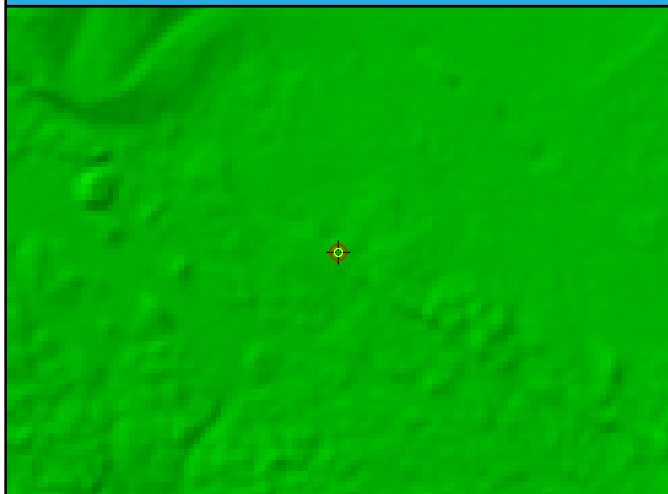
Intensity



1st Return TIN



DEM



DEM Dz 3.30 cm

FR003 (VVA)

FR004

General

Name	FR004
Type	VVA
Known Z	267.77 m
DEM Dz	-0.04 cm

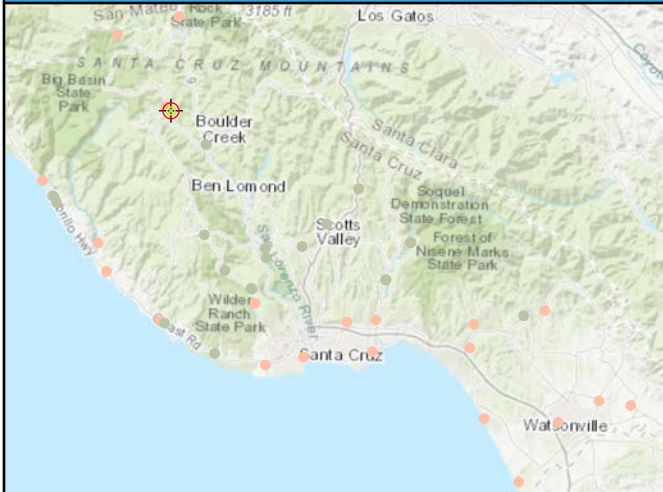
1st Return

Dz	-
Density	125.70 ppsm
Nearest	0.17 m
Slope	86.55°

Ground

Dz	0.03 cm
Density	5.66 ppsm
Nearest	0.54 m
Slope	8.53°

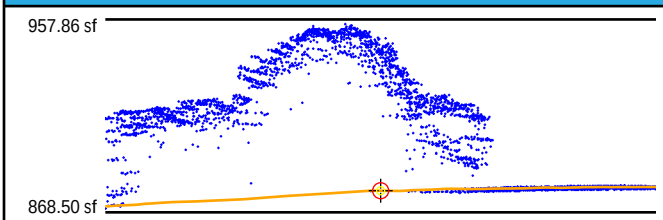
Project Context



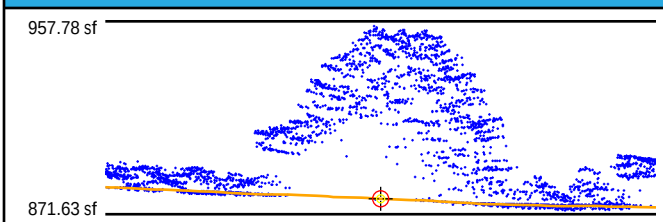
World Imagery



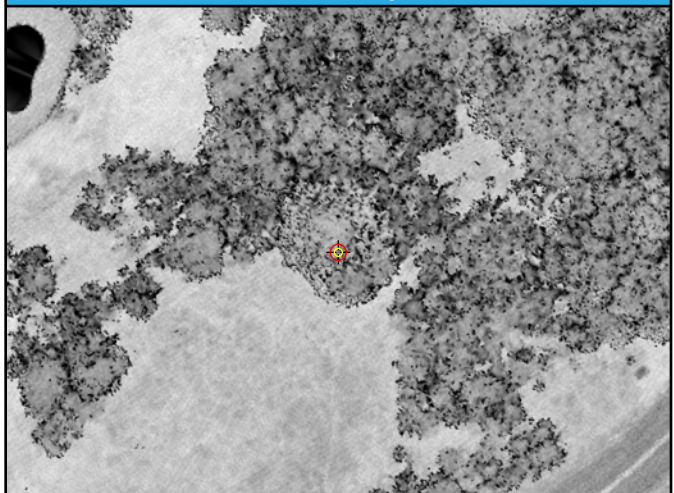
Cross Section - North to South



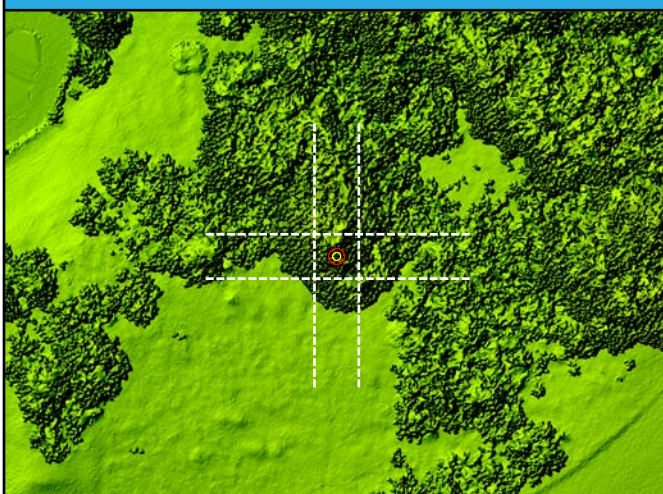
Cross Section - East to West



Intensity



1st Return TIN



DEM



DEM Dz -0.04 cm

FR004 (VVA)

FR005

General

Name	FR005
Type	VVA
Known Z	51.10 m
DEM Dz	-9.06 cm

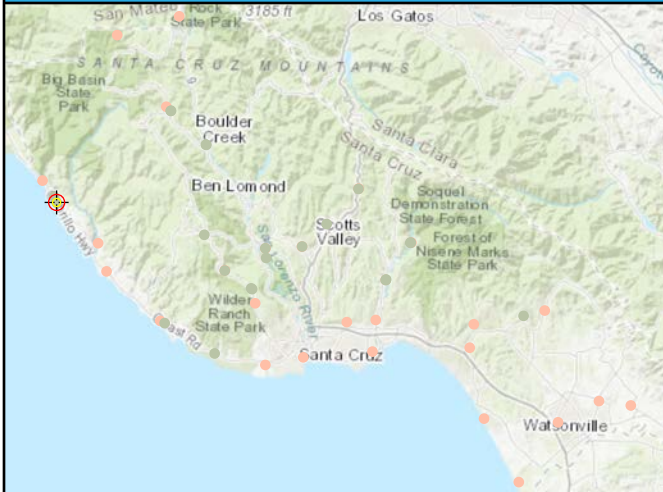
1st Return

Dz	-
Density	55.74 ppsm
Nearest	0.14 m
Slope	18.26°

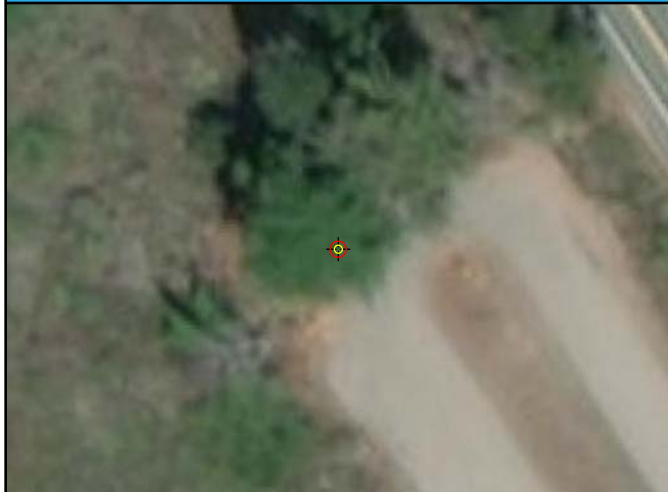
Ground

Dz	-9.04 cm
Density	0.28 ppsm
Nearest	1.93 m
Slope	-

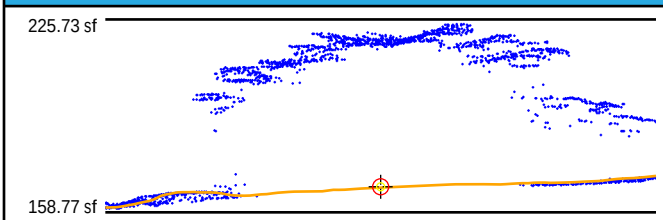
Project Context



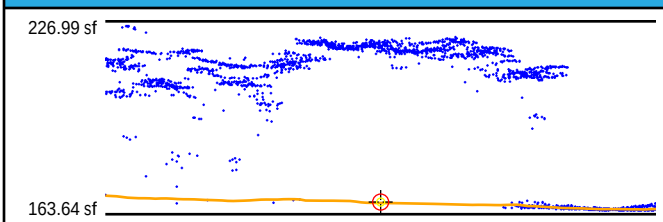
World Imagery



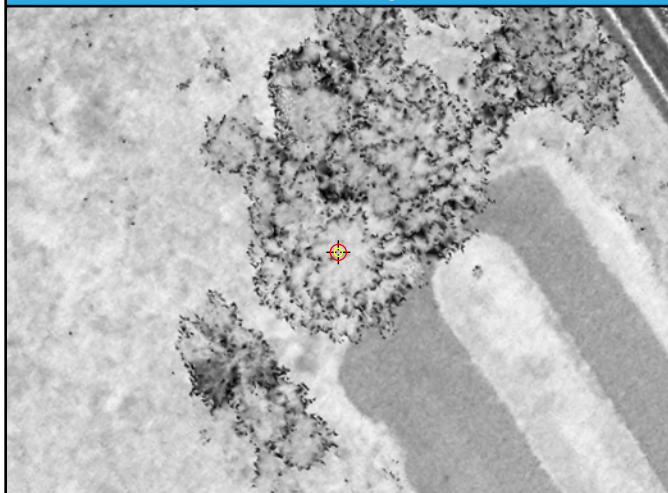
Cross Section - West to East



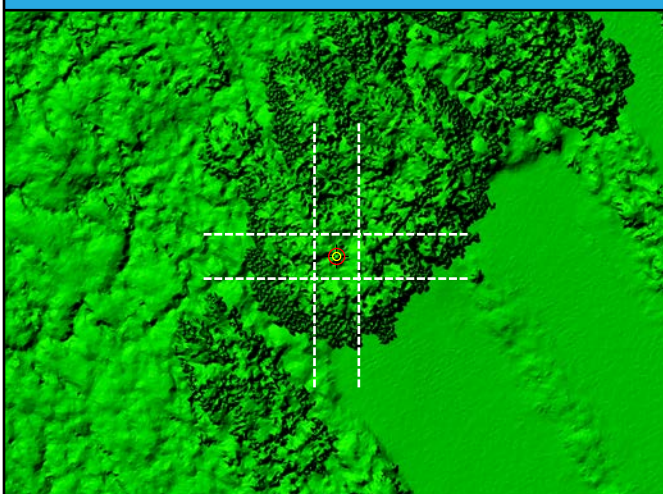
Cross Section - North to South



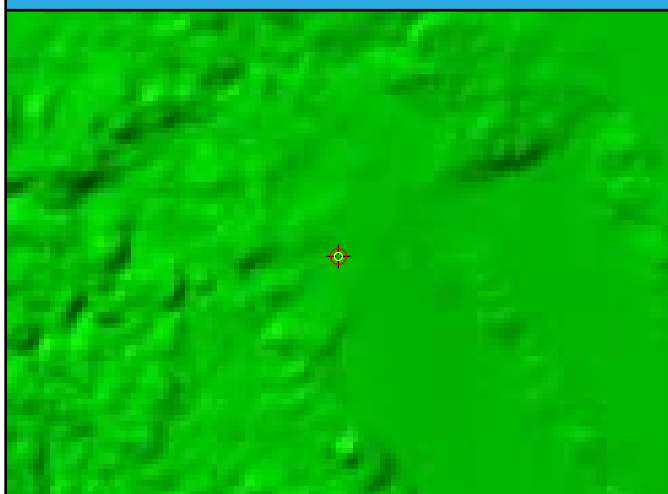
Intensity



1st Return TIN



DEM



DEM Dz -9.06 cm

FR005 (VVA)

FR006

General

Name	FR006
Type	VVA
Known Z	197.57 m
DEM Dz	0.78 cm

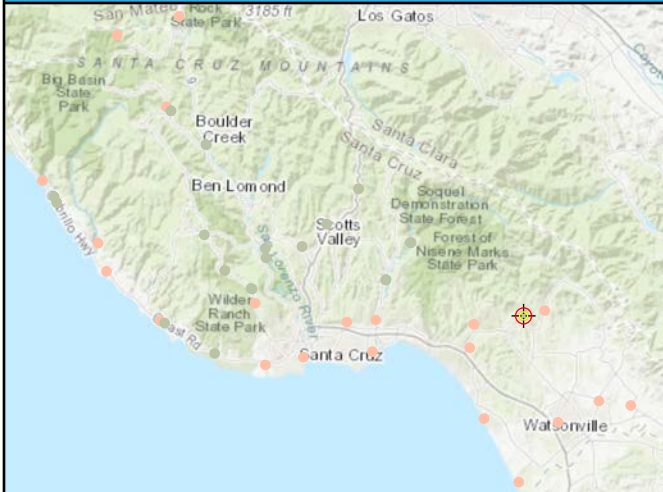
1st Return

Dz	-
Density	46.26 ppsm
Nearest	0.01 m
Slope	82.28°

Ground

Dz	0.41 cm
Density	11.74 ppsm
Nearest	0.01 m
Slope	4.29°

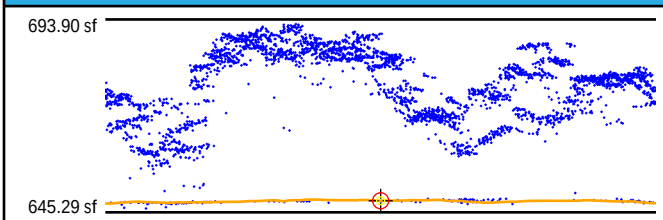
Project Context



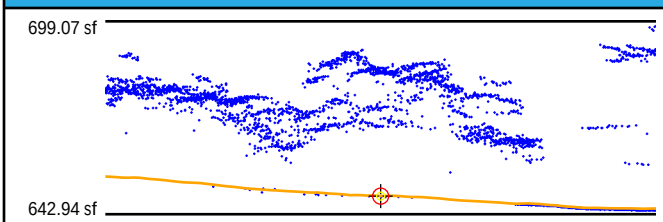
World Imagery



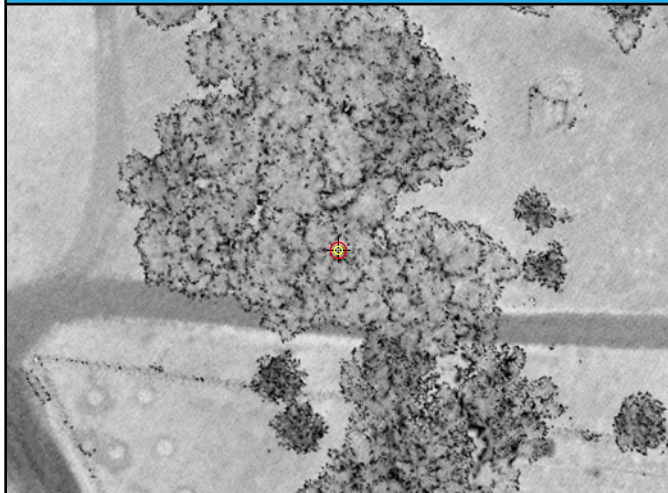
Cross Section - West to East



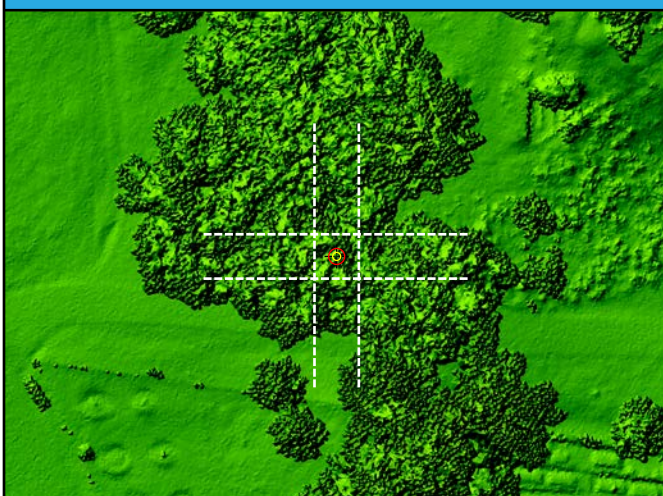
Cross Section - North to South



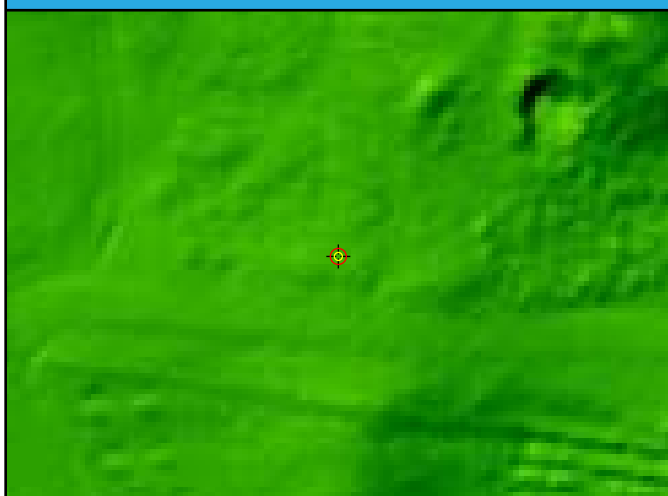
Intensity



1st Return TIN



DEM



FR007

General

Name	FR007
Type	VVA
Known Z	147.25 m
DEM Dz	7.58 cm

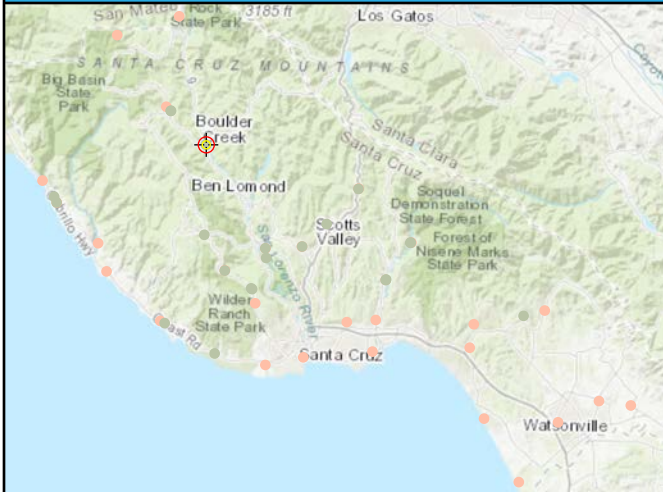
1st Return

Dz	-
Density	86.72 ppsm
Nearest	0.07 m
Slope	71.76°

Ground

Dz	8.53 cm
Density	9.20 ppsm
Nearest	0.59 m
Slope	7.25°

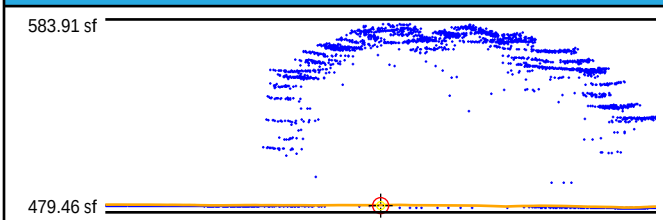
Project Context



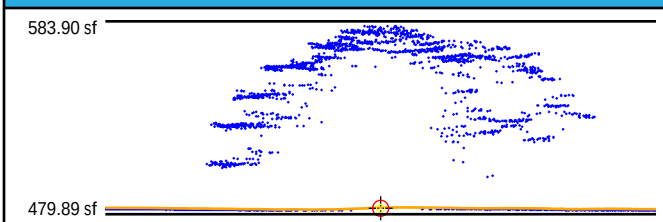
World Imagery



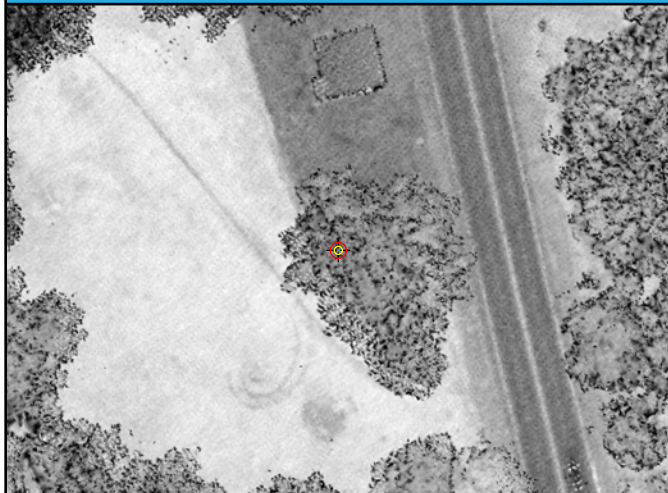
Cross Section - West to East



Cross Section - North to South



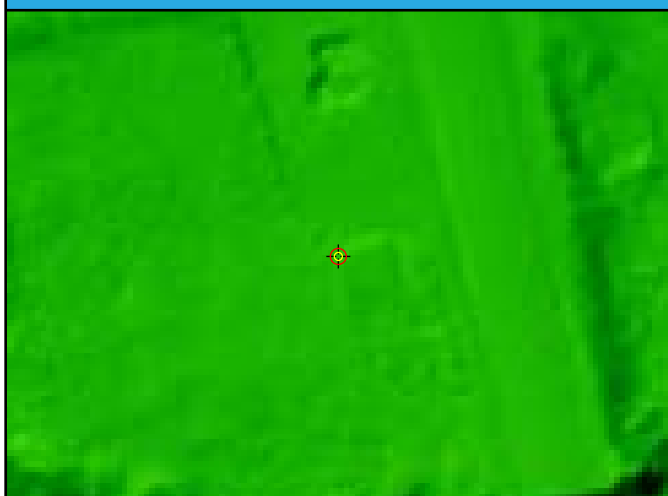
Intensity



1st Return TIN



DEM



FR009

General

Name	FR009
Type	VVA
Known Z	342.23 m
DEM Dz	-0.01 cm

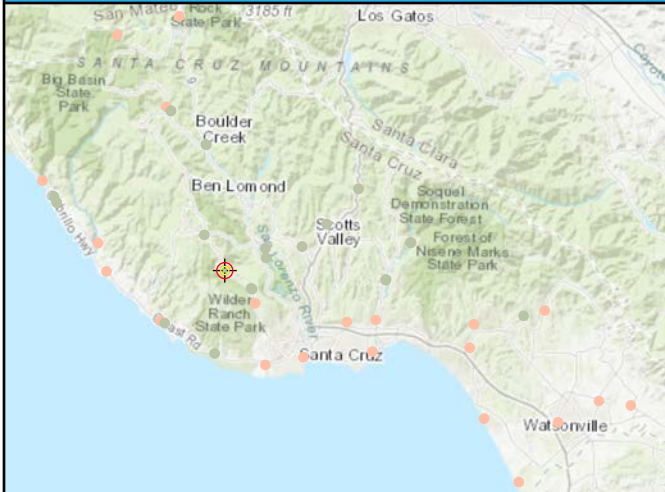
1st Return

Dz	-
Density	74.98 ppsm
Nearest	0.13 m
Slope	81.31°

Ground

Dz	0.02 cm
Density	11.32 ppsm
Nearest	0.23 m
Slope	6.14°

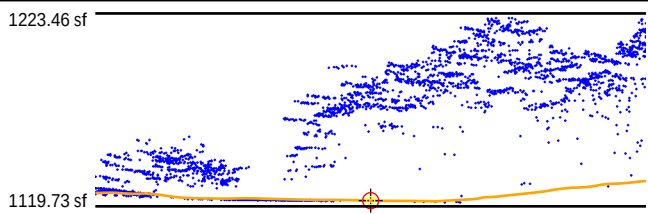
Project Context



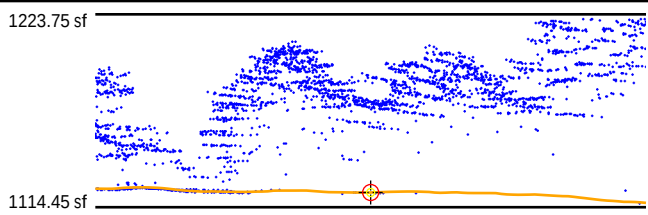
World Imagery



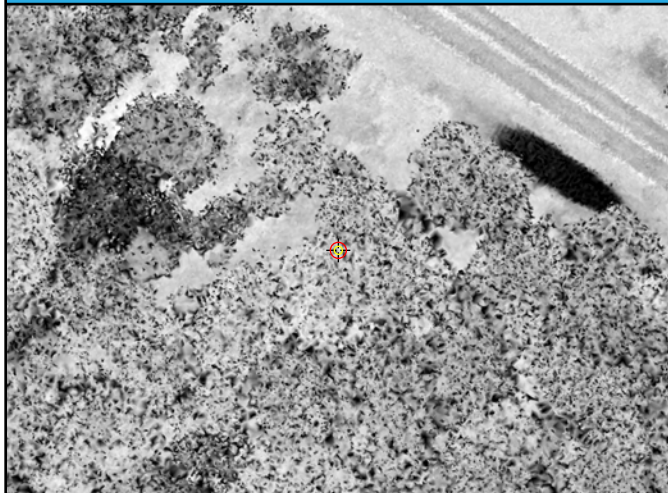
Cross Section - Northwest to Southeast



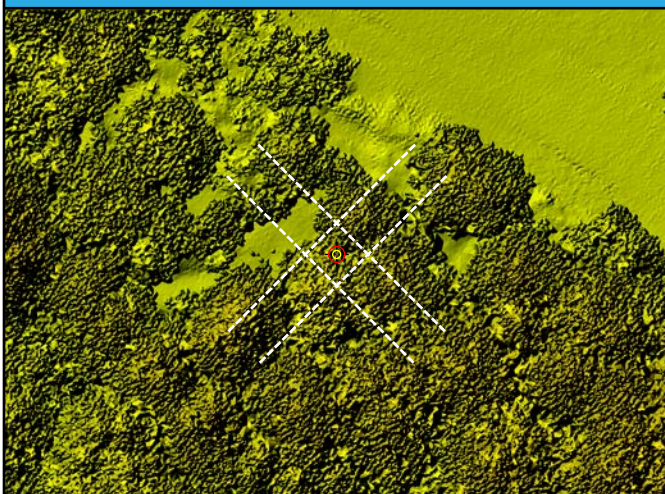
Cross Section - Northeast to Southwest



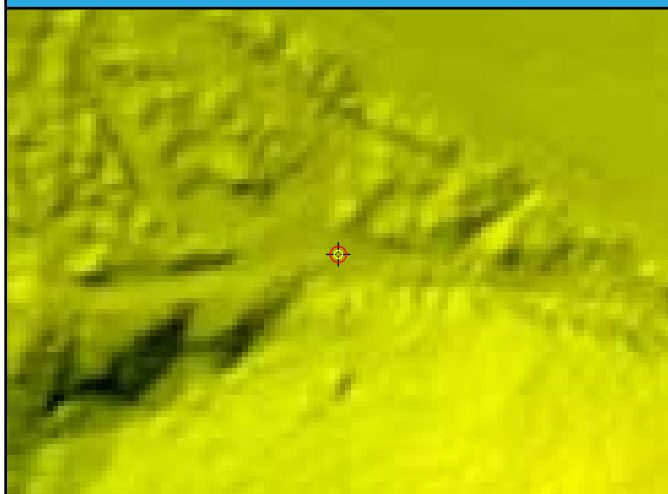
Intensity



1st Return TIN



DEM



DEM Dz -0.01 cm

FR009 (VVA)

FR010

General

Name	FR010
Type	VVA
Known Z	52.60 m
DEM Dz	13.25 cm

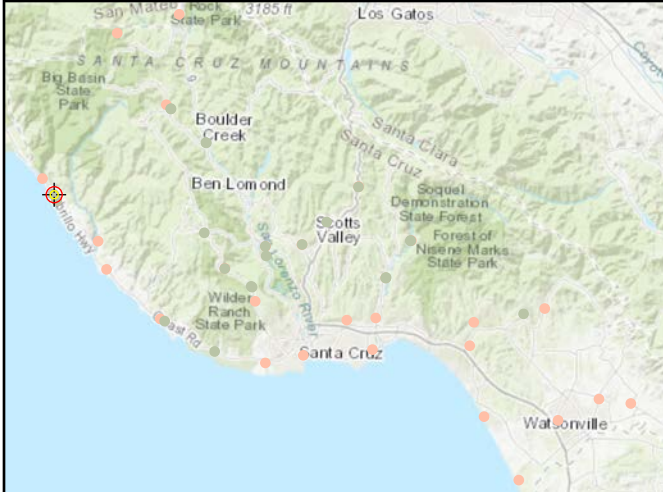
1st Return

Dz	-
Density	86.79 ppsm
Nearest	0.18 m
Slope	81.93°

Ground

Dz	12.71 cm
Density	15.21 ppsm
Nearest	0.10 m
Slope	5.71°

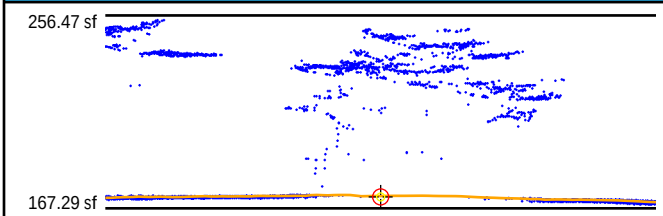
Project Context



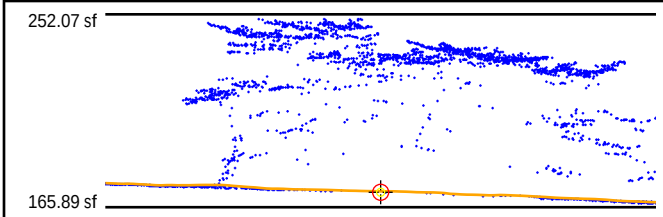
World Imagery



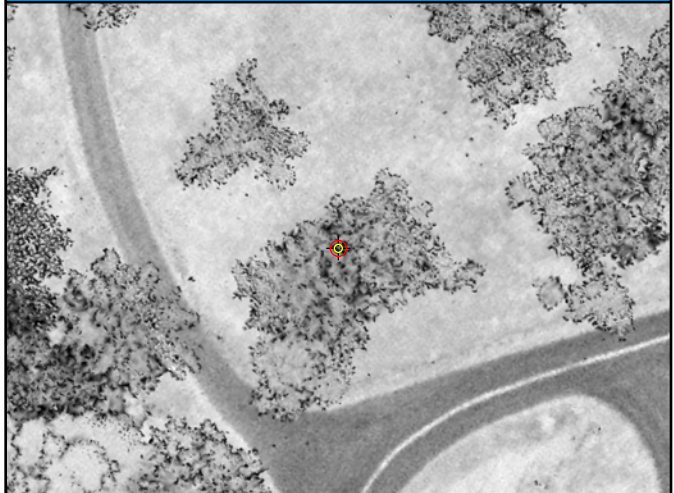
Cross Section - Northwest to Southeast



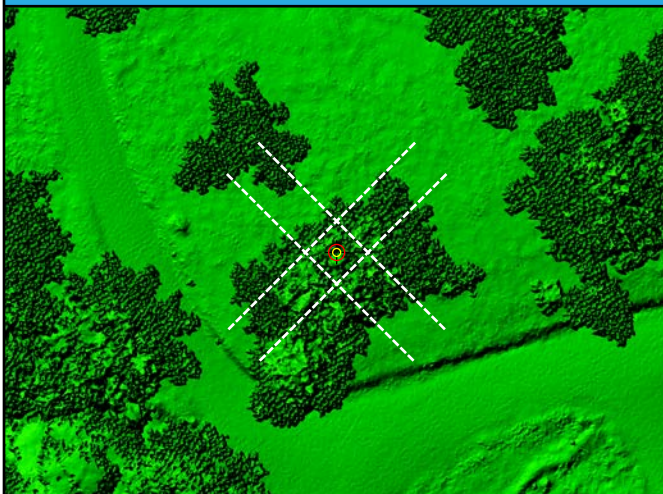
Cross Section - Northeast to Southwest



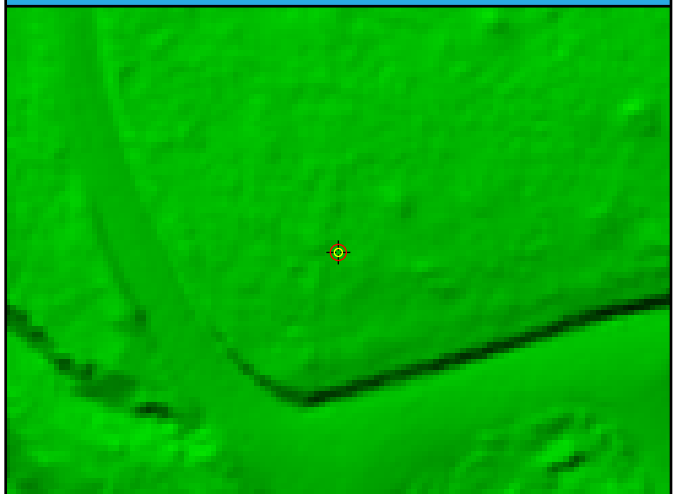
Intensity



1st Return TIN



DEM



DEM Dz 13.25 cm

FR010 (VVA)

FR012

General

Name	FR012
Type	VVA
Known Z	390.81 m
DEM Dz	2.39 cm

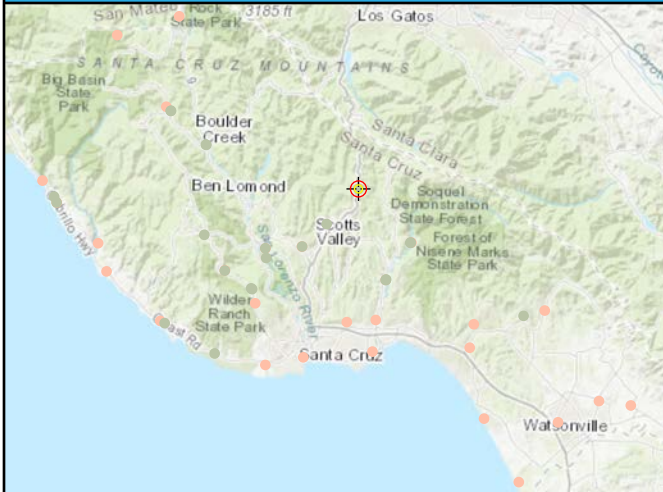
1st Return

Dz	-
Density	163.54 ppsm
Nearest	0.02 m
Slope	74.55°

Ground

Dz	2.19 cm
Density	44.42 ppsm
Nearest	0.07 m
Slope	15.11°

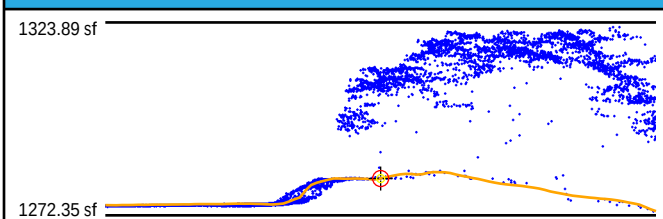
Project Context



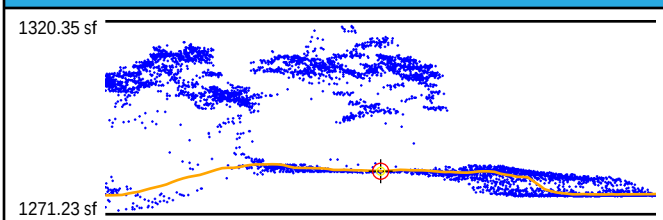
World Imagery



Cross Section - North to South



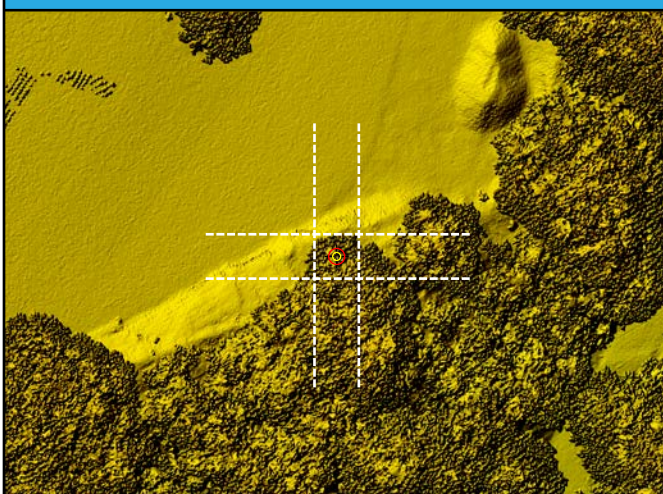
Cross Section - East to West



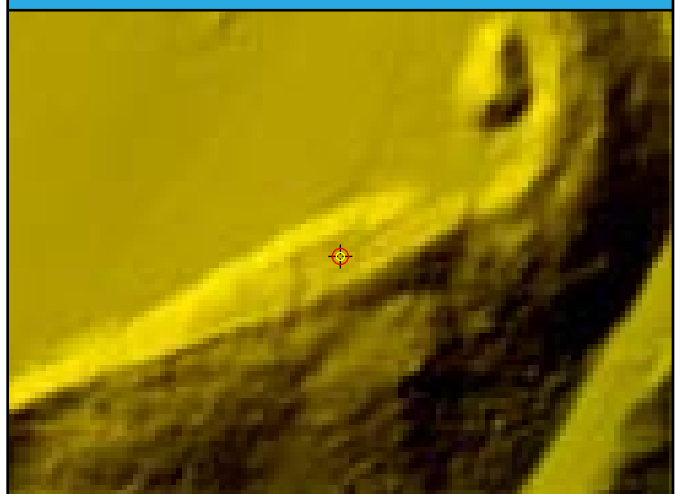
Intensity



1st Return TIN



DEM



DEM Dz 2.39 cm

FR012 (VVA)

FR013

General

Name	FR013
Type	VVA
Known Z	83.60 m
DEM Dz	2.05 cm

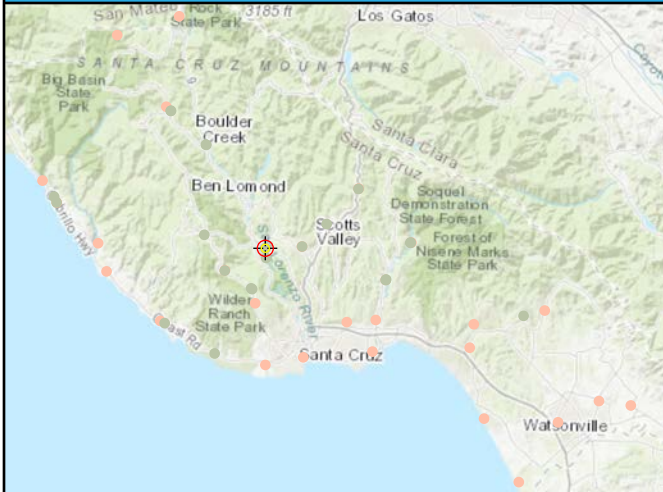
1st Return

Dz	-
Density	94.79 ppsm
Nearest	0.06 m
Slope	52.64°

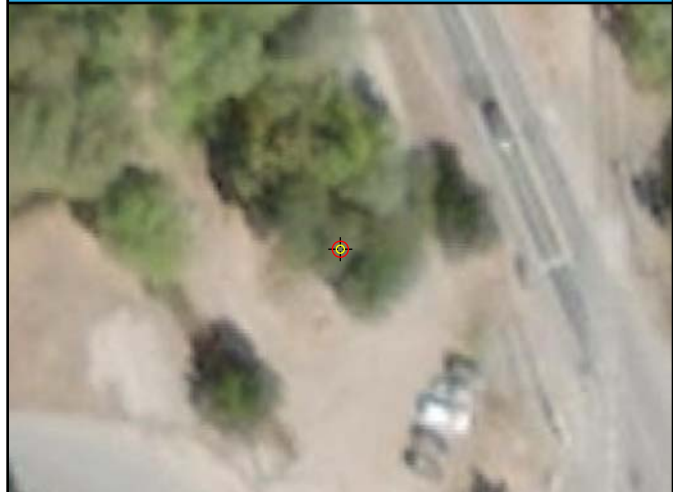
Ground

Dz	0.71 cm
Density	43.43 ppsm
Nearest	0.20 m
Slope	7.25°

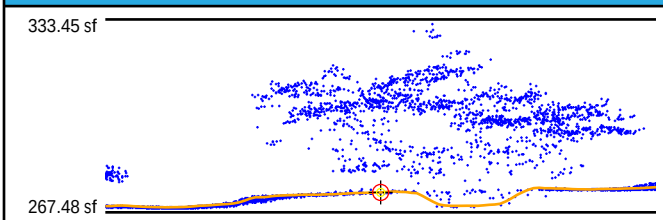
Project Context



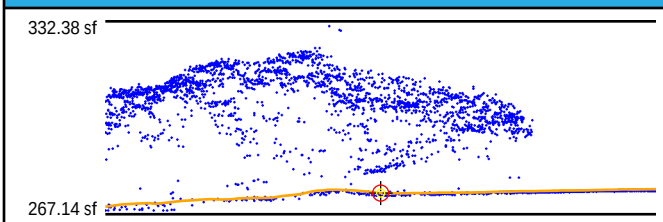
World Imagery



Cross Section - Southwest to Northeast



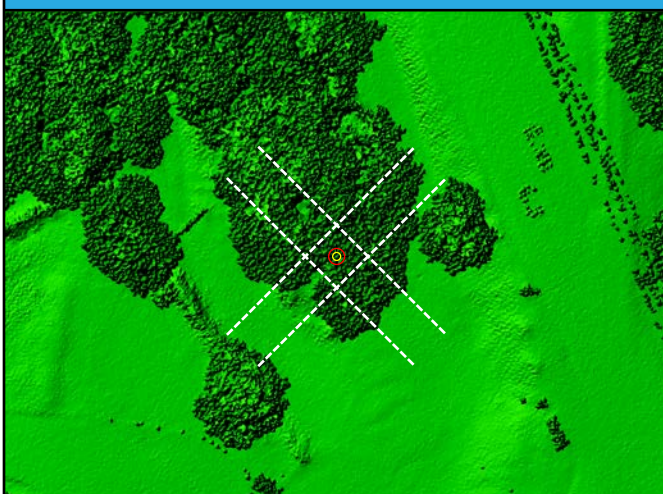
Cross Section - Northwest to Southeast



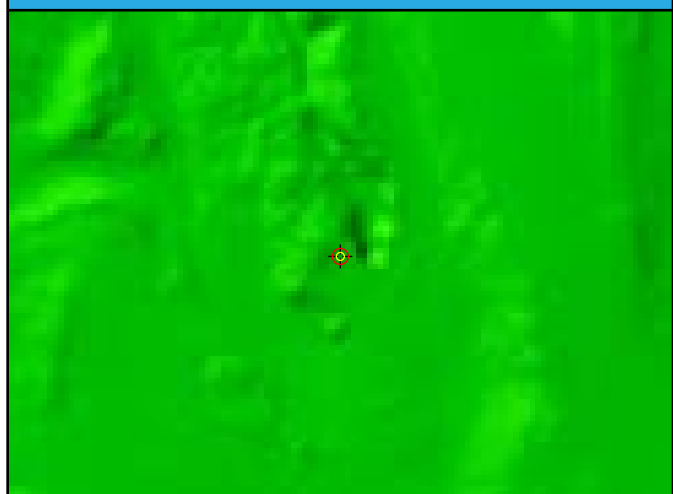
Intensity



1st Return TIN



DEM



DEM Dz 2.05 cm

FR013 (VVA)

FR014

General

Name	FR014
Type	VVA
Known Z	114.86 m
DEM Dz	0.33 cm

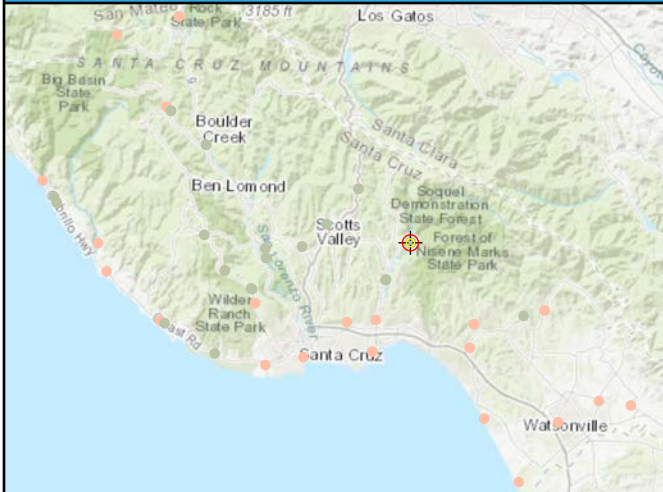
1st Return

Dz	-
Density	53.76 ppsm
Nearest	0.20 m
Slope	82.64°

Ground

Dz	0.29 cm
Density	10.33 ppsm
Nearest	0.17 m
Slope	3.64°

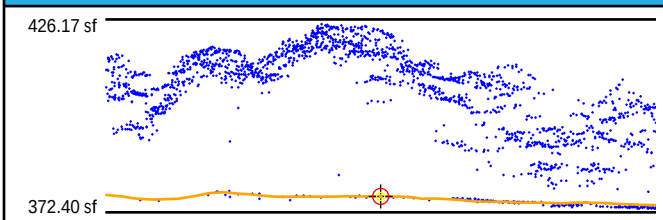
Project Context



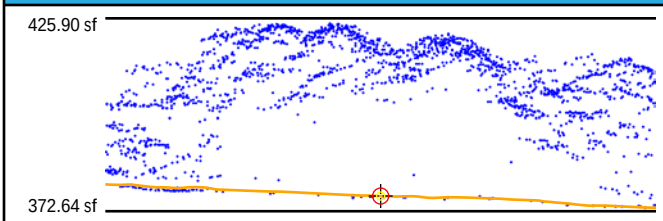
World Imagery



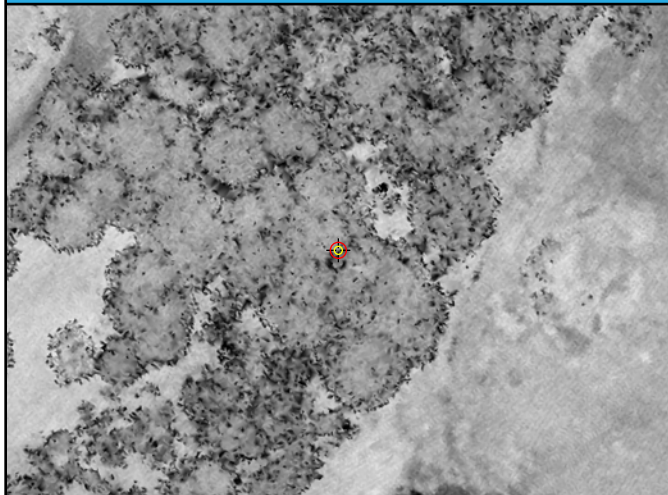
Cross Section - West to East



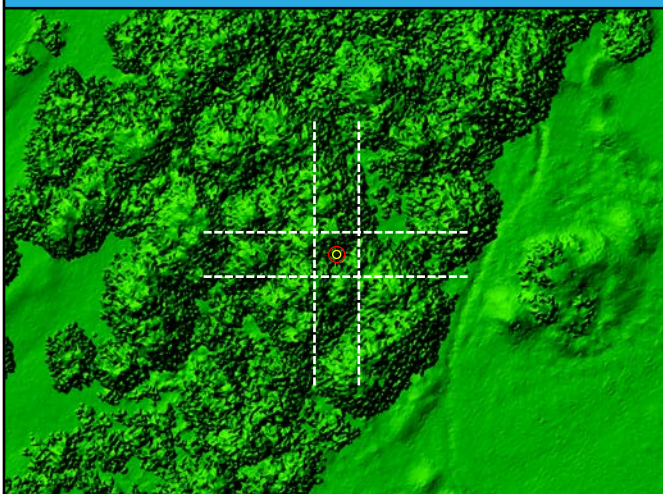
Cross Section - North to South



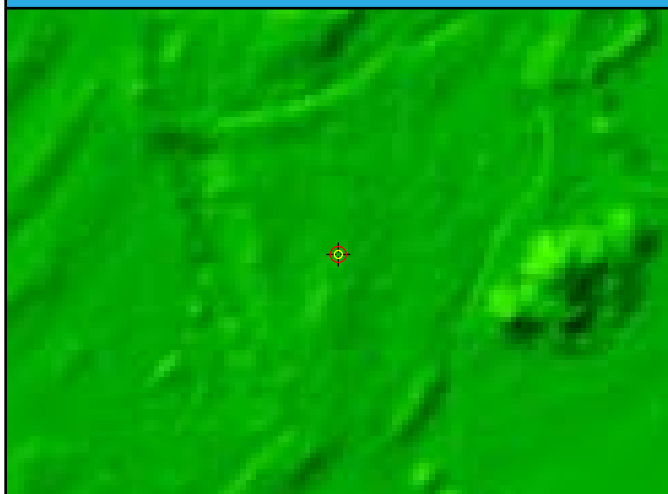
Intensity



1st Return TIN



DEM



DEM Dz 0.33 cm

FR014 (VVA)

SH001

General

Name	SH001
Type	VVA
Known Z	553.61 m
DEM Dz	16.65 cm

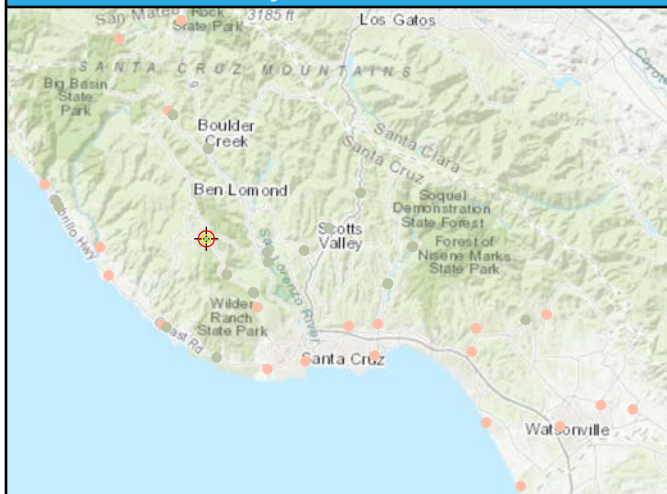
1st Return

Dz	-
Density	45.27 ppsm
Nearest	0.10 m
Slope	6.56°

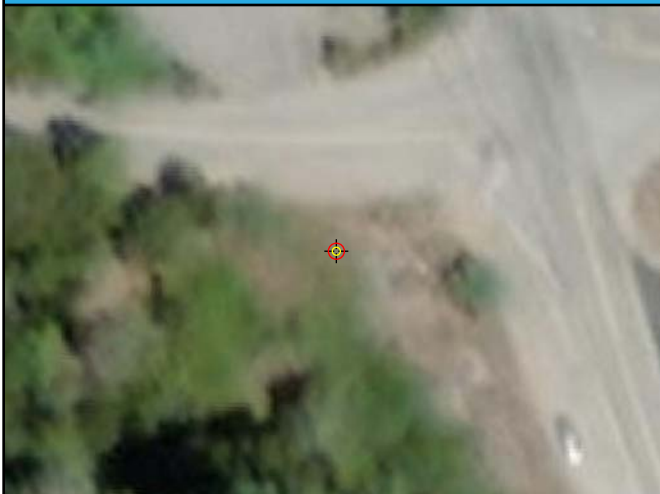
Ground

Dz	16.73 cm
Density	22.99 ppsm
Nearest	0.10 m
Slope	6.56°

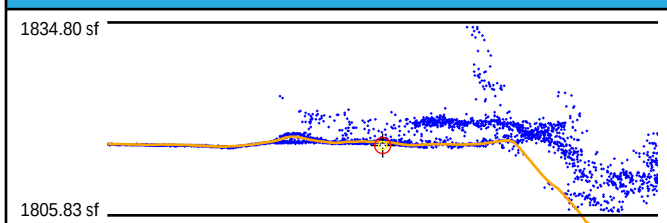
Project Context



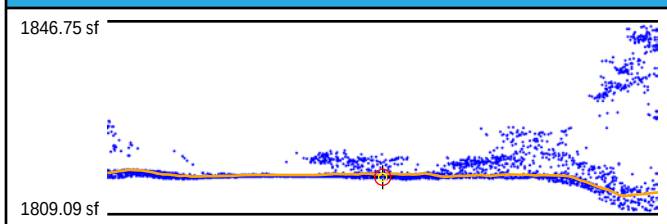
World Imagery



Cross Section - North to South



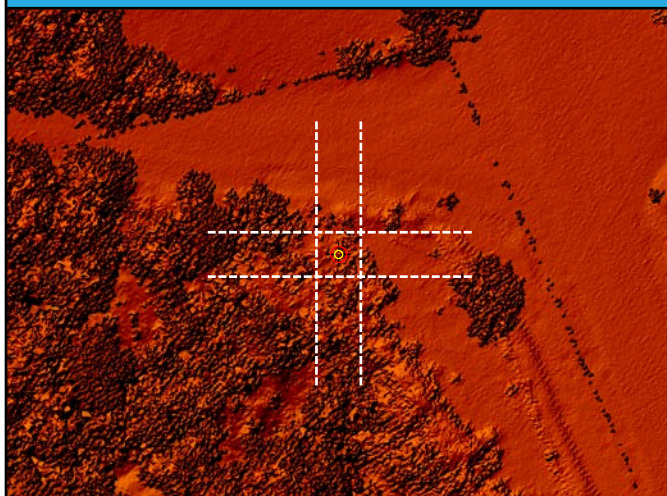
Cross Section - East to West



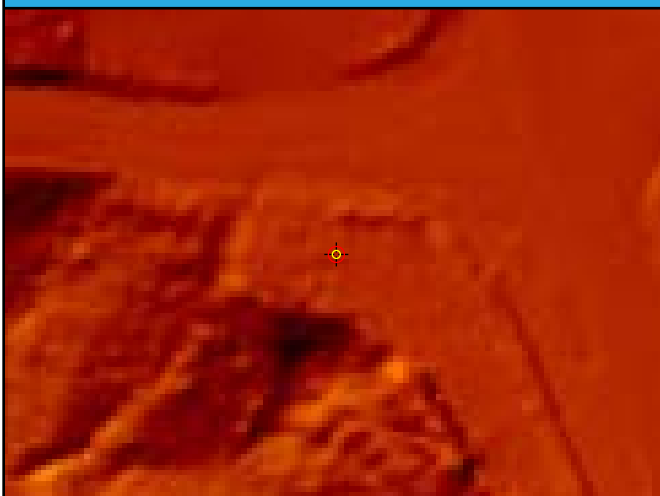
Intensity



1st Return TIN



DEM



SH003

General

Name	SH003
Type	VVA
Known Z	25.46 m
DEM Dz	25.43 cm

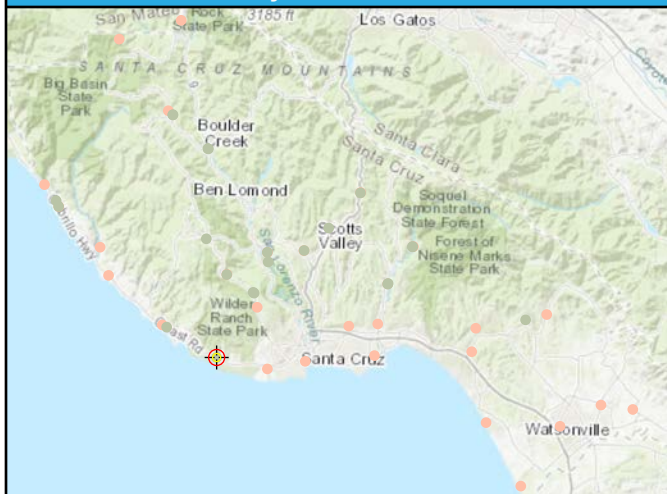
1st Return

Dz	-
Density	39.19 ppsm
Nearest	0.09 m
Slope	15.51°

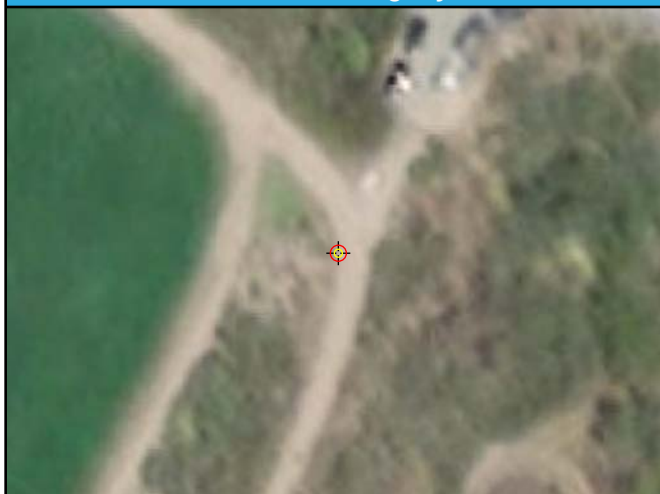
Ground

Dz	26.04 cm
Density	24.97 ppsm
Nearest	0.39 m
Slope	15.51°

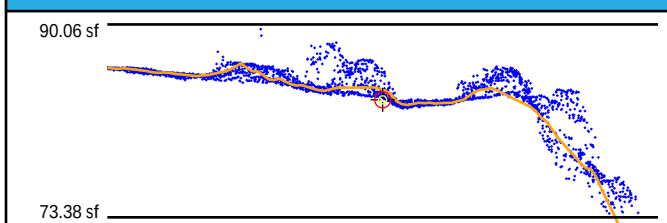
Project Context



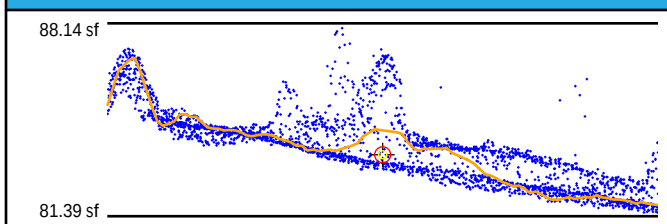
World Imagery



Cross Section - West to East



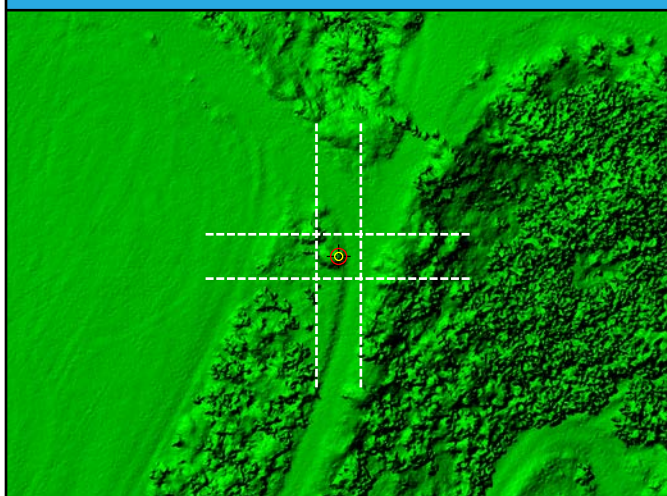
Cross Section - North to South



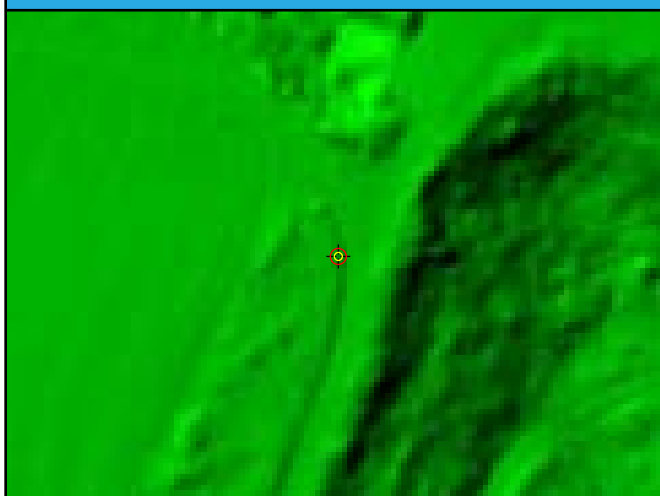
Intensity



1st Return TIN



DEM



SH030

General

Name	SH030
Type	VVA
Known Z	81.74 m
DEM Dz	5.78 cm

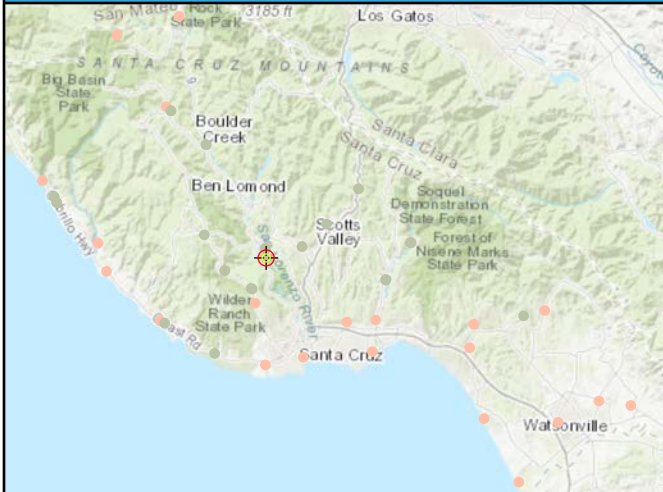
1st Return

Dz	-
Density	48.81 ppsm
Nearest	0.03 m
Slope	6.14°

Ground

Dz	7.17 cm
Density	23.34 ppsm
Nearest	0.03 m
Slope	6.14°

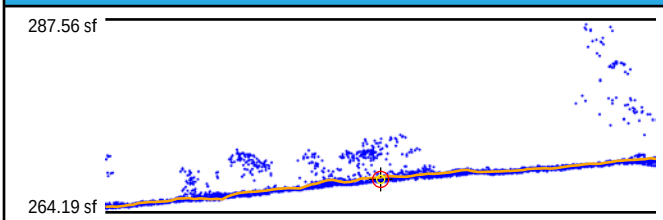
Project Context



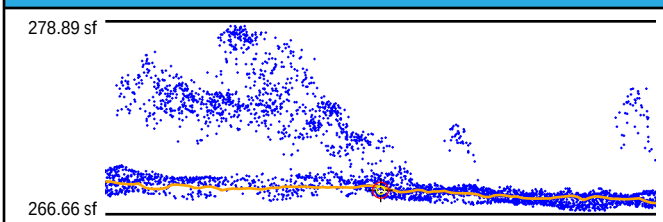
World Imagery



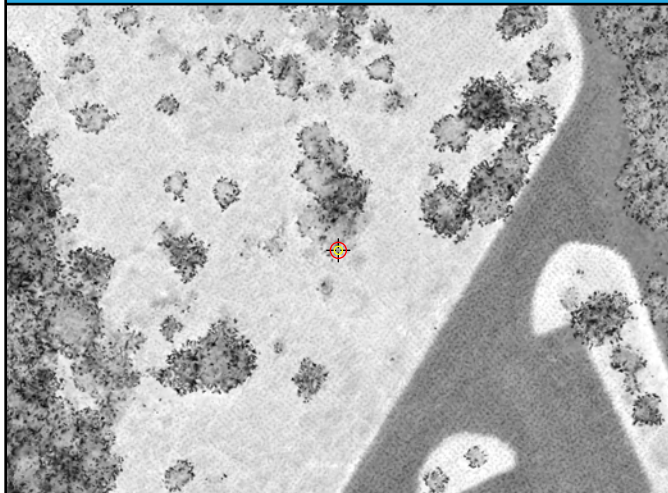
Cross Section - West to East



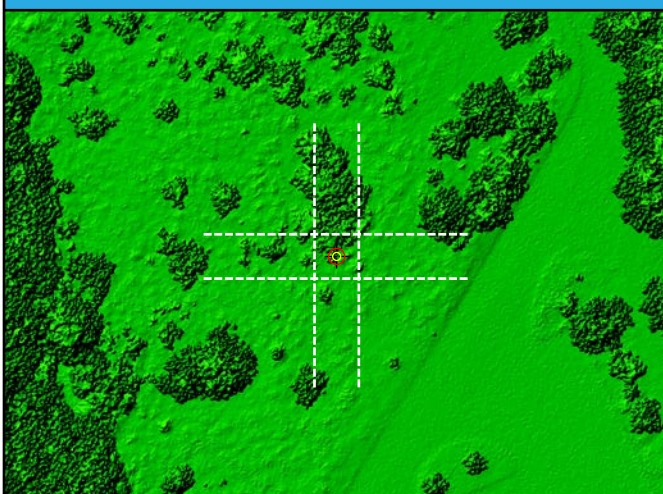
Cross Section - North to South



Intensity



1st Return TIN



DEM



TG001

General

Name	TG001
Type	VVA
Known Z	203.06 m
DEM Dz	-1.10 cm

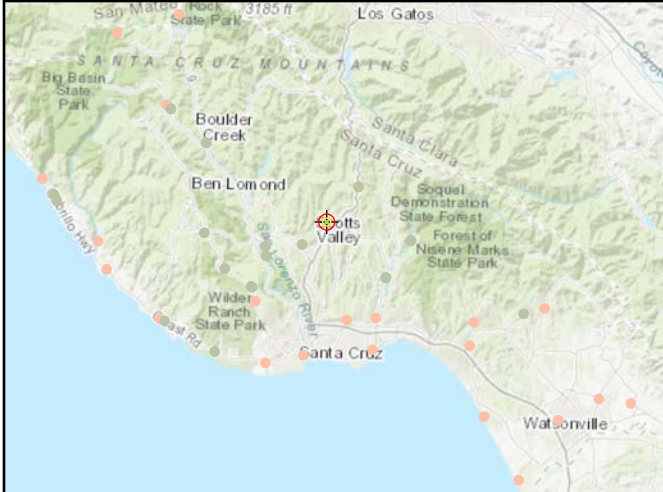
1st Return

Dz	-
Density	67.27 ppsm
Nearest	0.07 m
Slope	4.95°

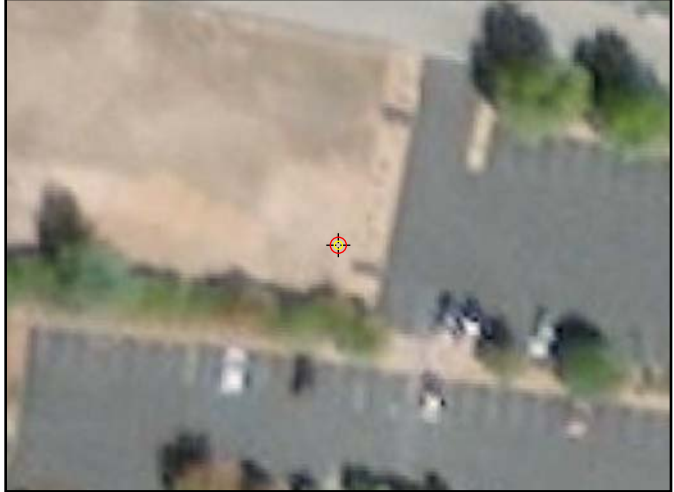
Ground

Dz	-1.14 cm
Density	61.33 ppsm
Nearest	0.07 m
Slope	4.95°

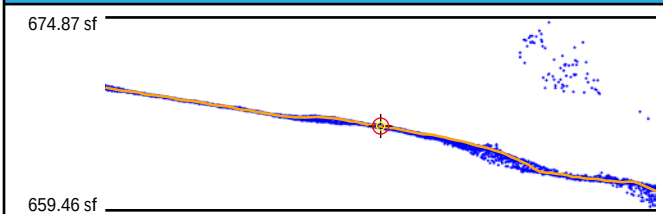
Project Context



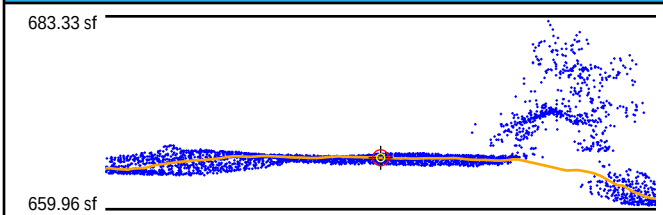
World Imagery



Cross Section - Northwest to Southeast



Cross Section - Northeast to Southwest



Intensity



1st Return TIN



DEM



TG002

General

Name	TG002
Type	VVA
Known Z	147.85 m
DEM Dz	5.44 cm

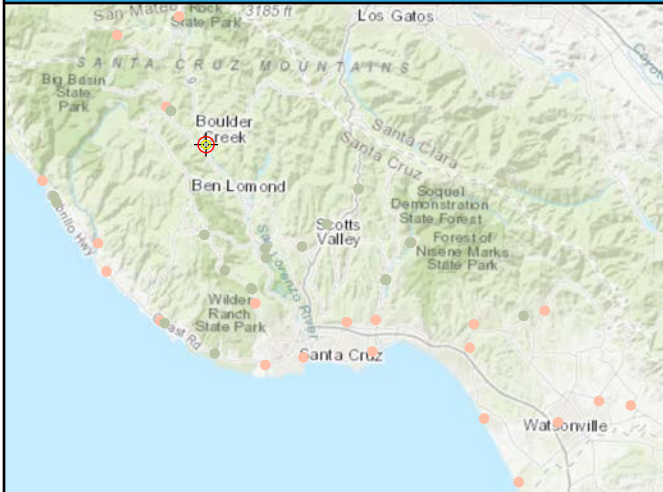
1st Return

Dz	-
Density	86.44 ppsm
Nearest	0.11 m
Slope	2.02°

Ground

Dz	6.21 cm
Density	80.78 ppsm
Nearest	0.11 m
Slope	2.02°

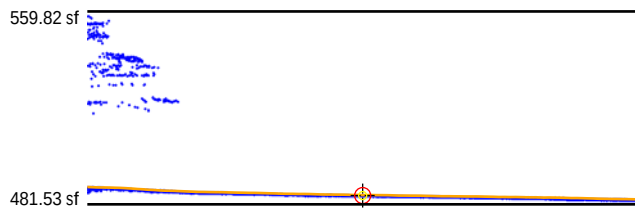
Project Context



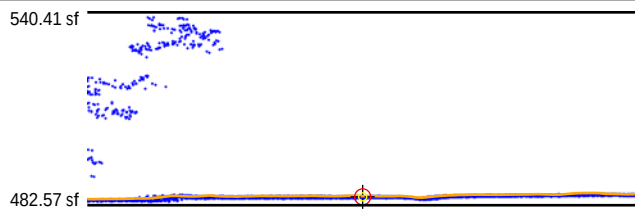
World Imagery



Cross Section - Northwest to Southeast



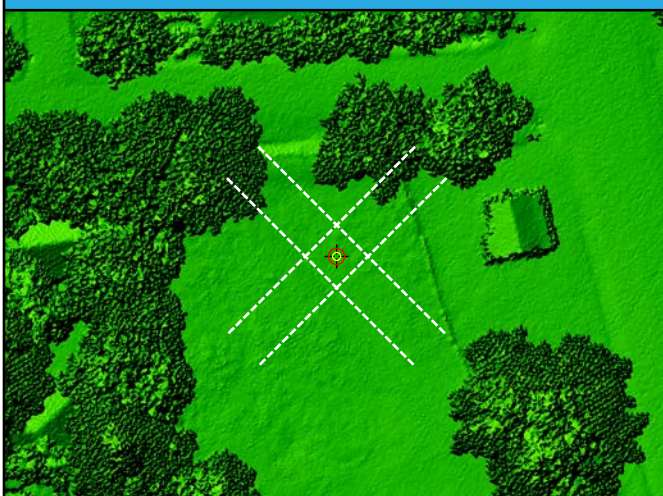
Cross Section - Northeast to Southwest



Intensity



1st Return TIN



DEM



DEM Dz 5.44 cm

TG002 (VVA)

TG003

General

Name	TG003
Type	VVA
Known Z	35.21 m
DEM Dz	20.61 cm

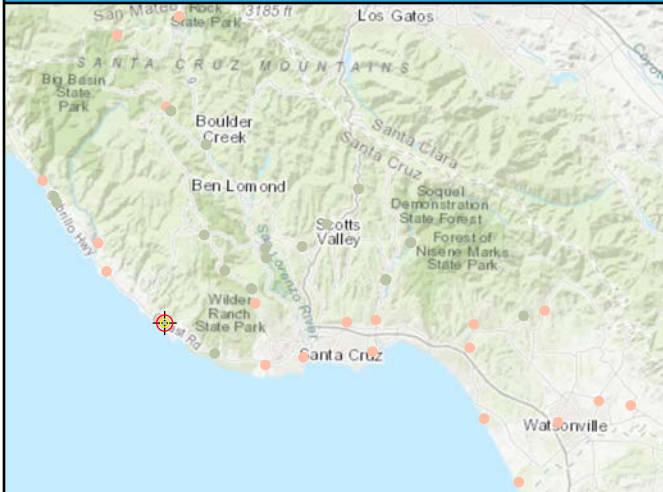
1st Return

Dz	-
Density	38.34 ppsm
Nearest	0.11 m
Slope	13.90°

Ground

Dz	20.98 cm
Density	33.32 ppsm
Nearest	0.11 m
Slope	13.90°

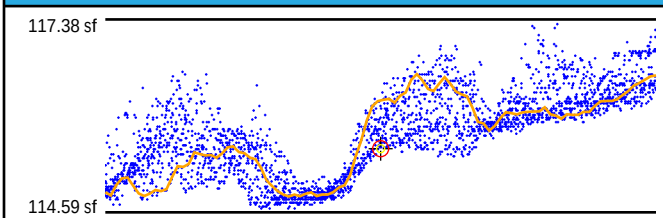
Project Context



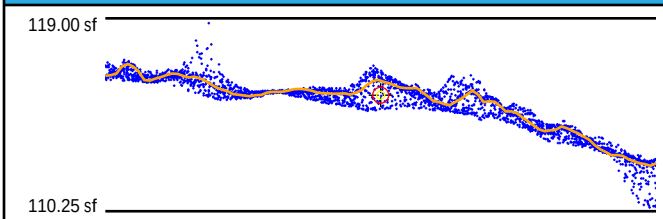
World Imagery



Cross Section - West to East



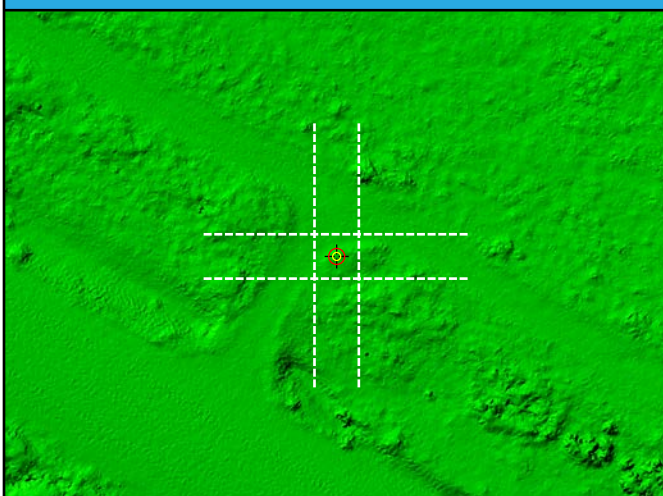
Cross Section - North to South



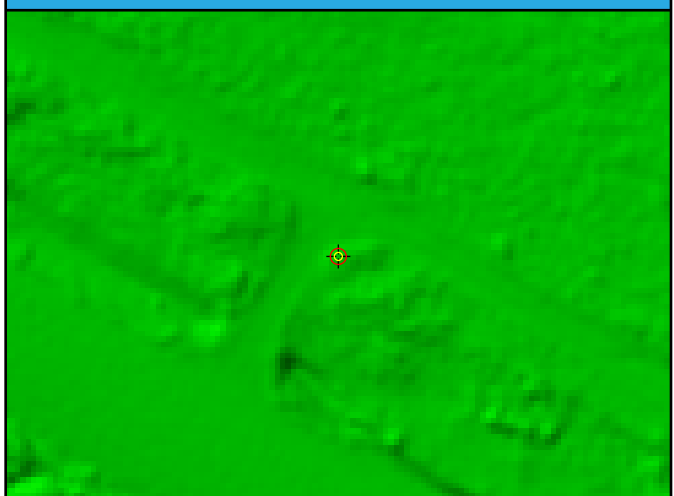
Intensity



1st Return TIN



DEM



TG004

General

Name	TG004
Type	VVA
Known Z	114.39 m
DEM Dz	1.28 cm

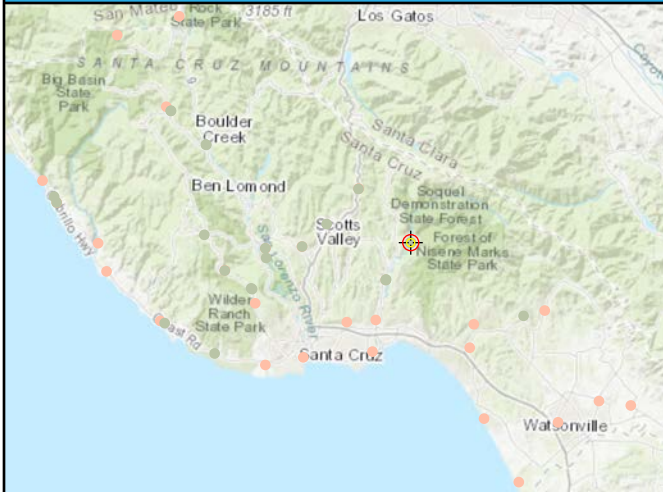
1st Return

Dz	-
Density	58.57 ppsm
Nearest	0.15 m
Slope	8.25°

Ground

Dz	0.84 cm
Density	52.49 ppsm
Nearest	0.15 m
Slope	8.25°

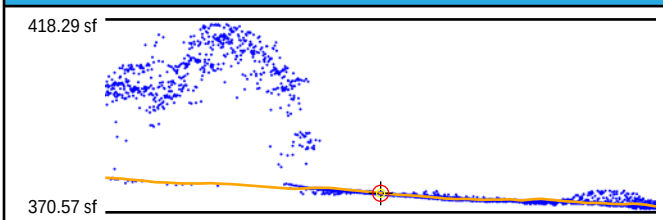
Project Context



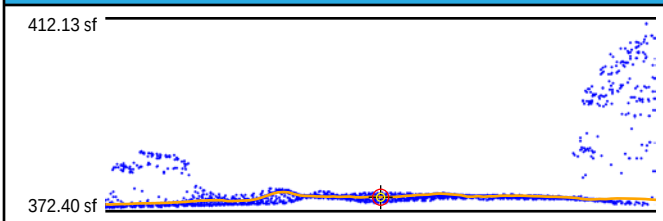
World Imagery



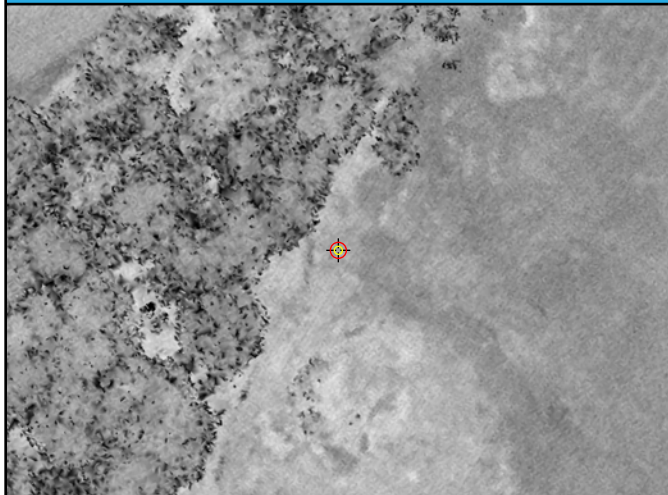
Cross Section - Northwest to Southeast



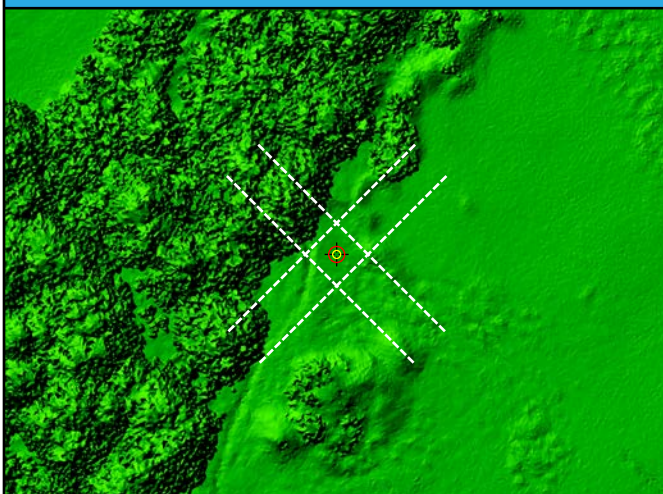
Cross Section - Northeast to Southwest



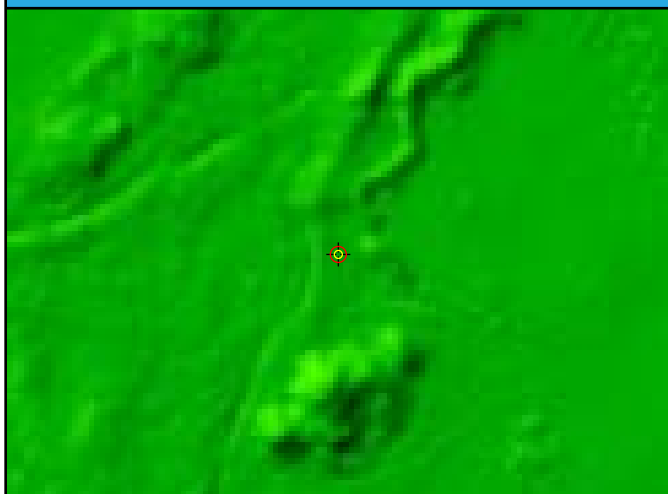
Intensity



1st Return TIN



DEM



TG005

General

Name	TG005
Type	VVA
Known Z	57.09 m
DEM Dz	6.76 cm

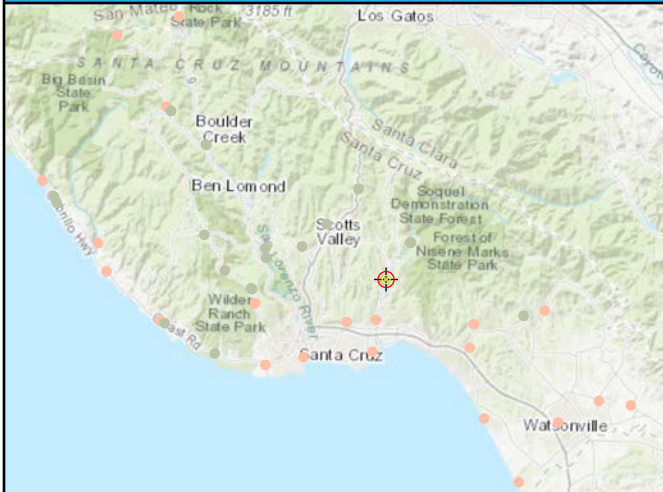
1st Return

Dz	-
Density	175.14 ppsm
Nearest	0.02 m
Slope	4.57°

Ground

Dz	6.52 cm
Density	107.80 ppsm
Nearest	0.25 m
Slope	4.57°

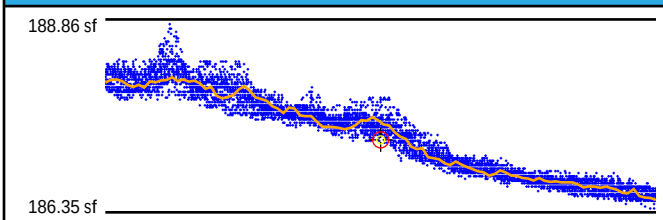
Project Context



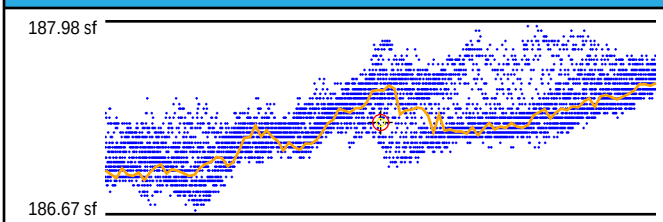
World Imagery



Cross Section - North to South



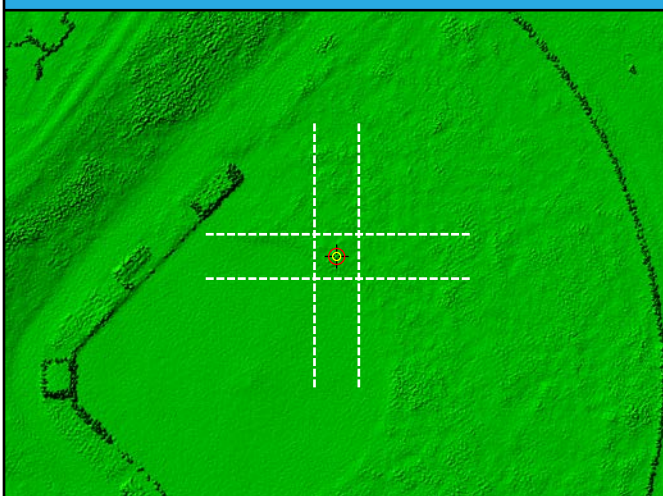
Cross Section - East to West



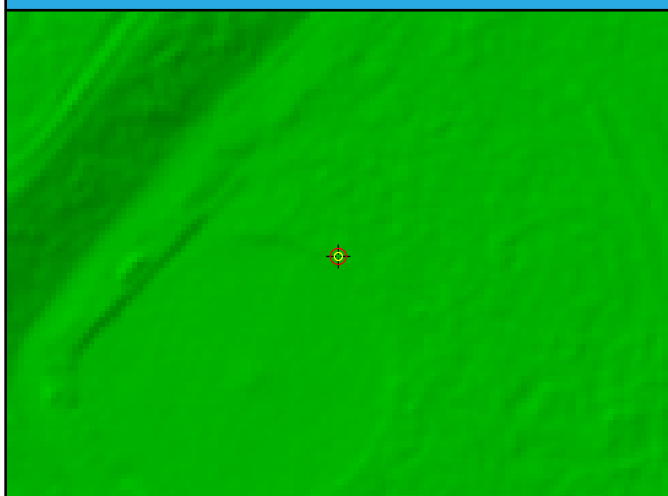
Intensity



1st Return TIN



DEM



DEM Dz 6.76 cm

TG005 (VVA)

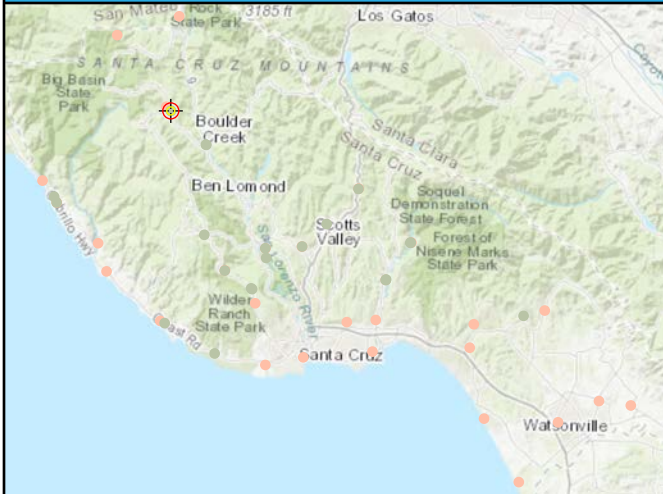
TG006

General	
Name	TG006
Type	VVA
Known Z	267.38 m
DEM Dz	4.33 cm

1st Return	
Dz	-
Density	111.41 ppsm
Nearest	0.06 m
Slope	3.29°

Ground	
Dz	4.24 cm
Density	95.85 ppsm
Nearest	0.06 m
Slope	3.29°

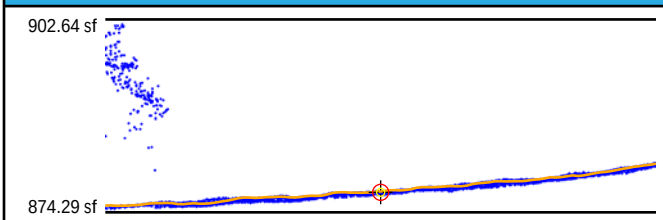
Project Context



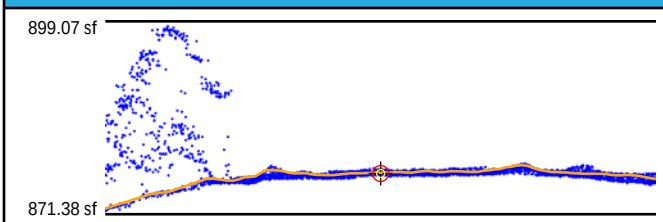
World Imagery



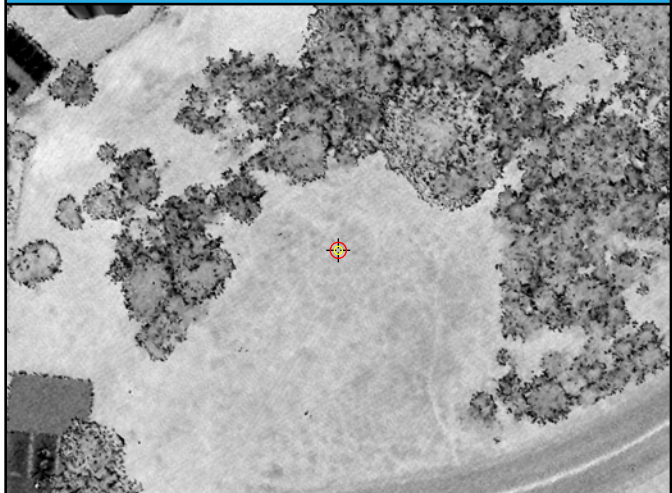
Cross Section - West to East



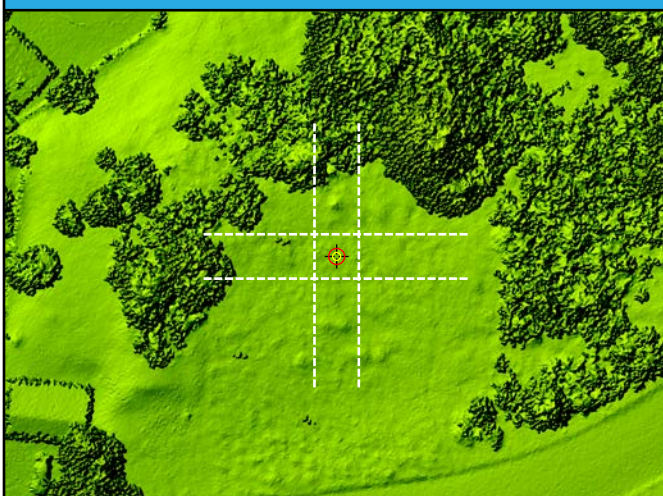
Cross Section - North to South



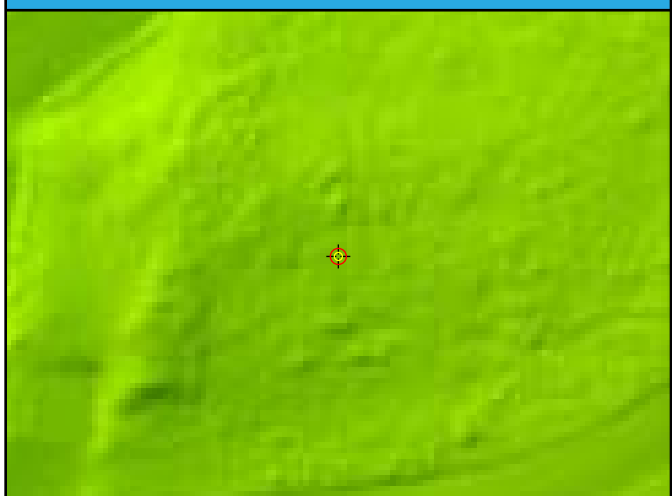
Intensity



1st Return TIN



DEM



TG007

General

Name	TG007
Type	VVA
Known Z	338.36 m
DEM Dz	5.85 cm

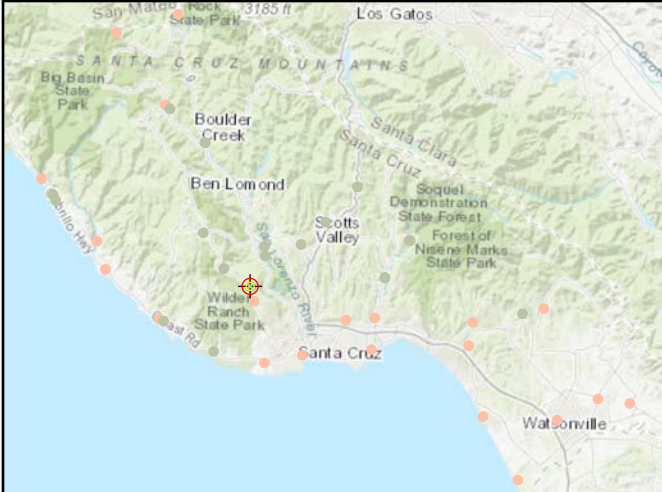
1st Return

Dz	-
Density	43.29 ppsm
Nearest	0.10 m
Slope	2.63°

Ground

Dz	5.83 cm
Density	37.84 ppsm
Nearest	0.10 m
Slope	2.63°

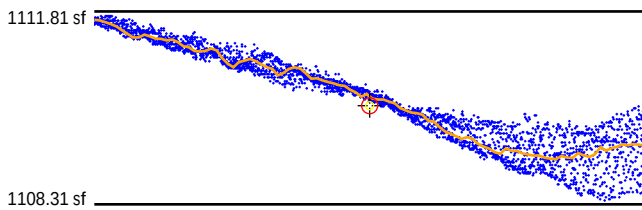
Project Context



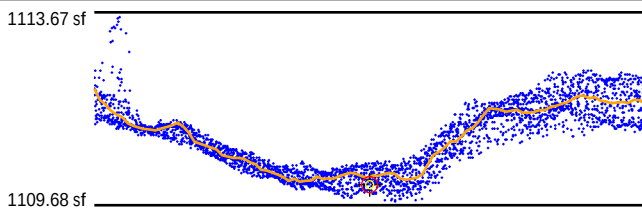
World Imagery



Cross Section - Northwest to Southeast



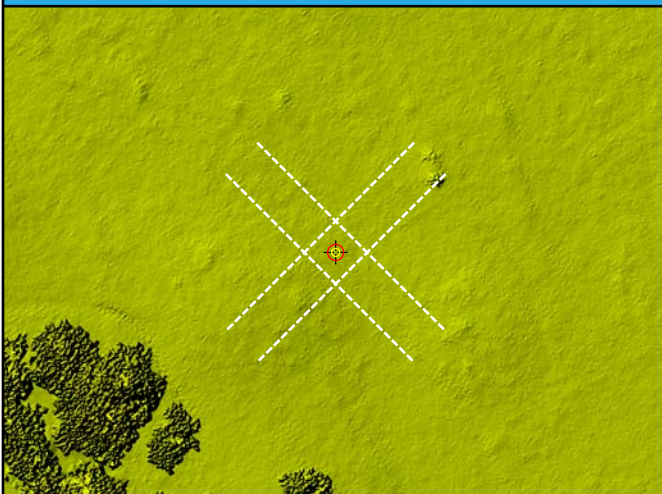
Cross Section - Northeast to Southwest



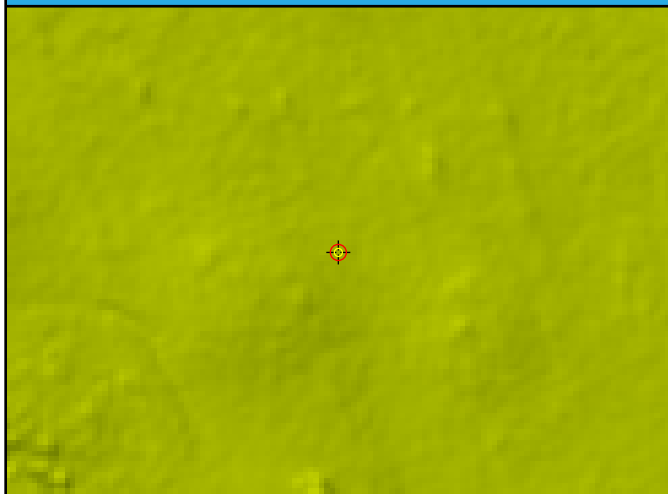
Intensity



1st Return TIN



DEM



DEM Dz 5.85 cm

TG007 (VVA)