

# Elevation QA Review Report

Project: Salton Sea, California Contract ID:

Liaison: Drew Decker Partner(s): Contractor: Dewberry

Data Delivery Date: 03/07/2011 Date Data Reviewed: 2011 - 04/14/2011

Reviewer: Kevin W. Romero Total Square Miles Reviewed: 348 sq. mi

Elevation Type: LIDAR Format: IMG Grid Spacing: 1 meter Tile size: 1500 x 1500

Projection: UTM Zone: 11 Datum: NAD83 Units: Meters

Licensing: Public Domain Metadata: Tile Level

## Materials Received:

Folders:  
Classified LAS  
DEM  
Metadata  
Raw Swath Data

Vertical Accuracy Test Performed: Yes Test Point Source: Contractor RMSE: 0.60 meters

## Vertical Accuracy Test Notes:

A vertical check was performed on the Salton Sea, CA 1 meter Lidar project. Points used were supplied with project in the form of a SHP. file. 9 points were used and provided a RMSE of 0.60. These points do not meet vertical requirements for a true vertical accuracy test and are provided for a confidence level only.

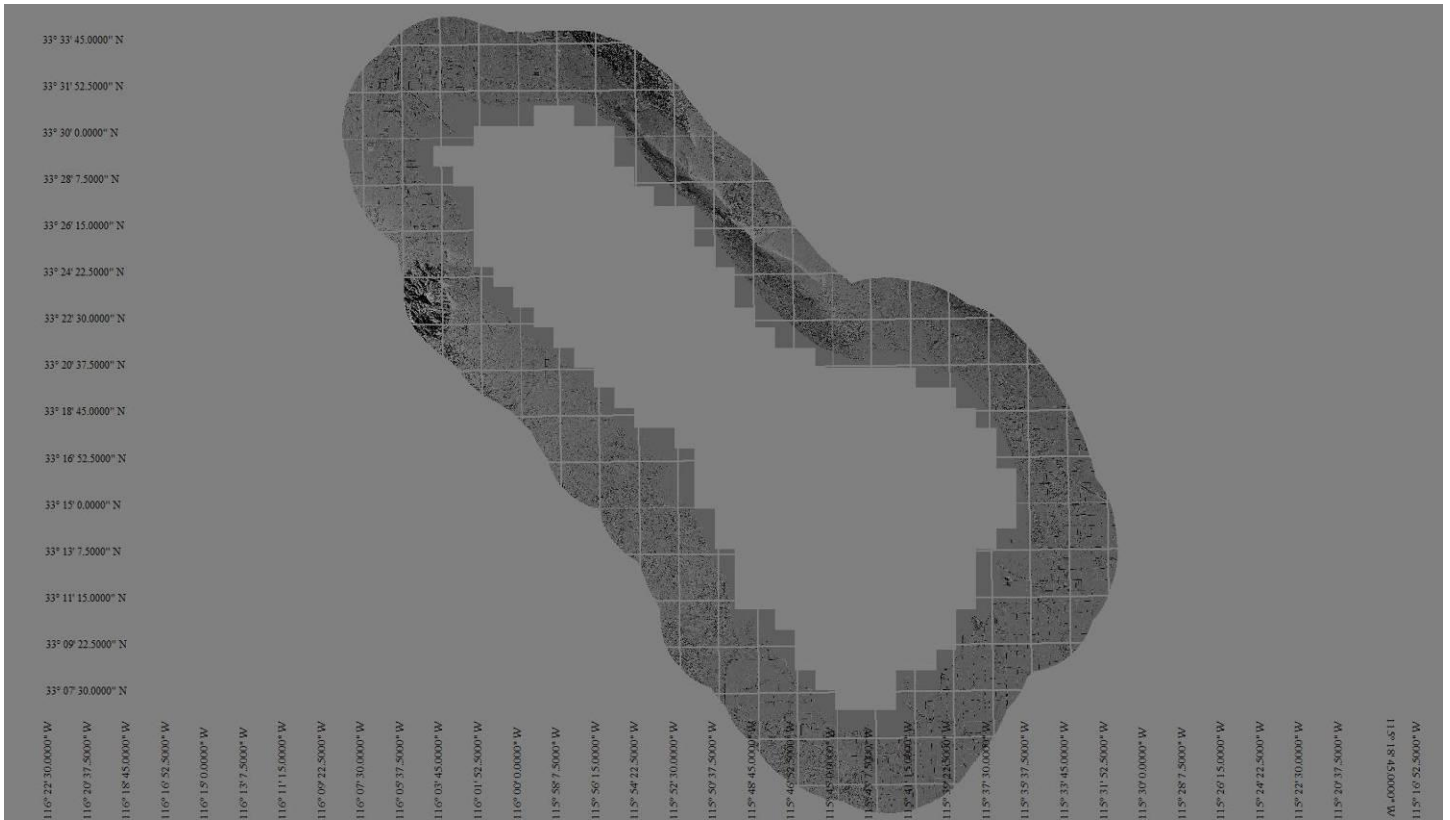
## QA Review Summary:

All of the Salton Sea, California 1 meter LIDAR data was reviewed and no errors were found. A shape file was sent with this data. This data was brought in as IMG files. These IMG files were output as a single IMG. in native format.

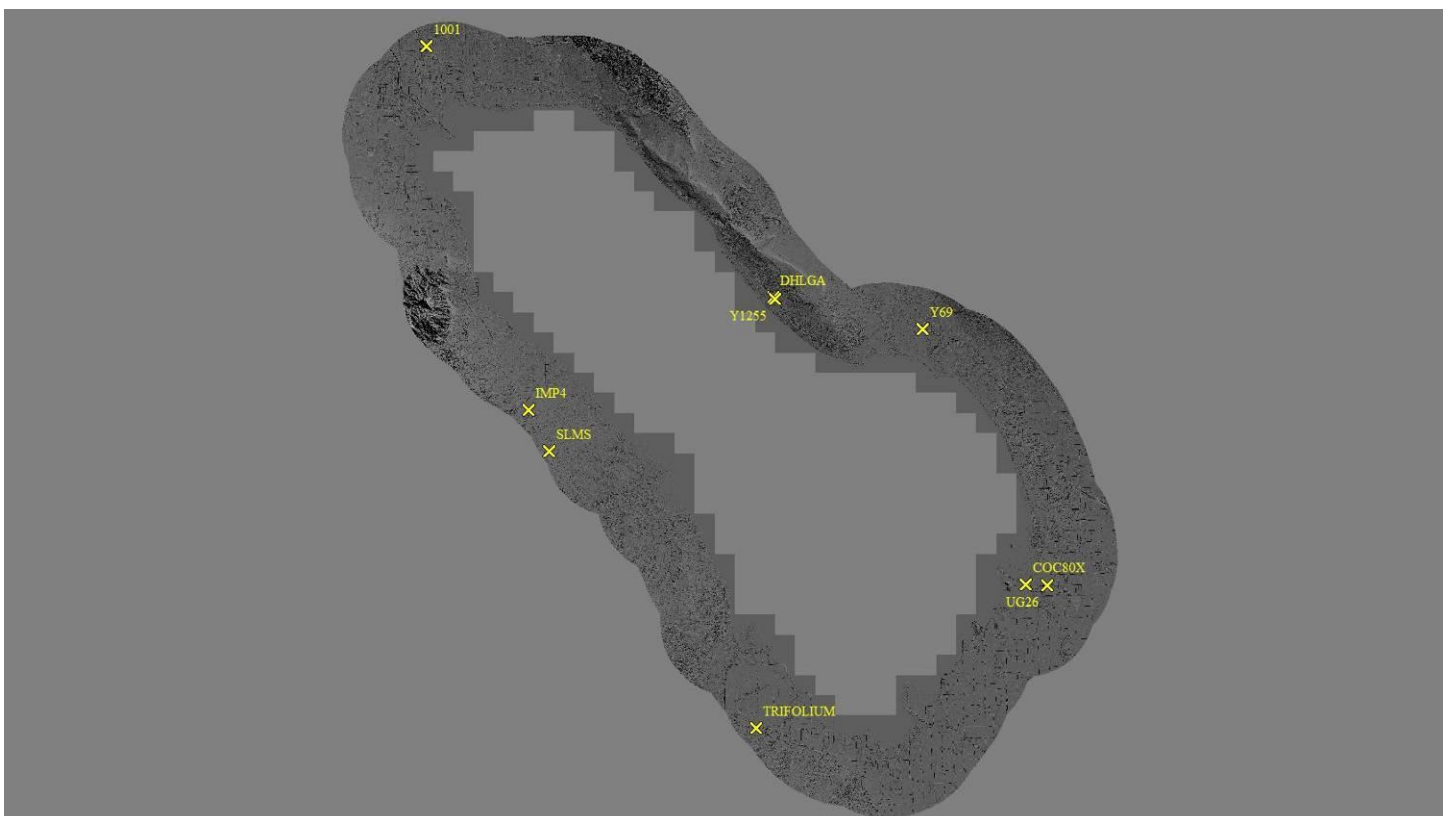
See JPEGs and document attached below.

CONCLUSIONS: 1. 95 % of artifacts removed  
2. 95 % of vegetation penetrated  
3. 98 % of buildings removed

# Salton Sea Lidar Project



# Salton Sea Lidar Vertical Control



## Salton Sea Vertical Control List

### Vertical Accuracy Statistic Worksheet

pt number	Easting	Northing	pt description	z (independent)	z (test)	diff in z	(diff in z) <sup>2</sup>	
1	611929.699	3695637.523	DHLGA	-57.63	-57.61	-0.02	0.00	ngs benchmark
2	612045.866	3695520.049	Y1255	-57.037	-56.19	-0.85	0.73	ngs benchmark
3	586003.654	3714293.967	1001	-59.094	-59.06	-0.04	0.00	control point
4	593637.189	3687207.682	IMP4	-19.078	-19.11	0.03	0.00	benchmark
5	595172.992	3684149.714	SLMS	-12.897	-11.32	-1.58	2.49	cgps station
6	610632.605	3663525.603	TRIFOLIUM	-55.357	-55.28	-0.08	0.01	ngs benchmark
7	623080.809	3693242.814	Y69	-58.568	-58.39	-0.18	0.03	ngs benchmark
8	630761.492	3674226.151	COC80X	-68.093	-68.22	0.13	0.02	Found unmarked brass cap at SW
9	632360.106	3674171.634	UG26	-67.382	-67.31	-0.07	0.00	ngs benchmark

OutLier: a control point located in an area that does not reflect the true ground elevation, i.e. bridges, etc.

sum	3.28
average	0.36
RMSE	0.60
NSSDA	1.18