

LAR-IAC2 PROBLEM IDENTIFICATION AND RESOLUTION FORM

PIRF No: L2-4

City/Agency	Culver City	Date PIRF received	4/23/2009
Contact	Johnnie Griffing	Date Resolved	4/30/2009
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Data type (Imagery, DEM, DTM, Contours):	Ortho 4-inch
Error type:	Image shift
File name(s):	L2_6440_1826b.jp2 (LARIAC2) and 6440_1826b.jp2 (LARIAC1) comparison
City / community:	City of Culver City
APN / TB page / name of attached shapefile:	

Describe Problem or Map anomaly in detail.
 We throughout numerous areas an inconsistency between the locations of permanent, non-moving features such as manholes. It appears the new imagery may be incorrectly shifted up to ~1 meter. The tile in this PIRF serves as an example, showing manholes in the street, at the intersection of Cardiff Ave and Culver Blvd. Note the green sewer line overlaid at a "T" intersection where a manhole exists as well as the manhole just south of it.



LARIAC1 - 2006



LAR-IAC's response to the Problem:

Dewberry has reviewed the issue outlined by Johnnie Griffing of Culver City. All of the horizontal accuracy points falling within Culver City meet the specifications required for the project area. Due to different AT solutions and Camera types for these two projects there is the potential that there may be small differences between the 2006 imagery and the current iteration of imagery with both being within acceptable tolerance. Below are the preliminary results of the horizontal accuracy assessment for Culver City.

LAR-IAC2 Culver City Orthophoto Horizontal Accuracy Assessment

Point Number	QA/QC Survey Checkpoints			Orthophoto Coordinates Measured by Dewberry		Orthophoto minus surveyed coordinates		Discrepancies Squared as required for RMSE calculations		
	California SPC Zone V NAD 83		NAVD 88	California SPC Zone V NAD 83 (1999) HARN		California SPC Zone V NAD 83 (1999) HARN		Δy^2 (ft ²)	Δx^2 (ft ²)	
	Northing (y) Feet	Easting (x) Feet	Elevation (z) Feet	Northing (y) Feet	Easting (x) Feet	Δy (Northing) Feet	Δx (Easting) Feet			
LA104	1815494.1186	6455367.2346	181.7978	1815494.9410	6455366.6690	0.822	-0.566	0.6763	0.3199	
LA109	1815293.3150	6420656.7895	11.2433	1815293.9110	6420656.5570	0.596	-0.232	0.3552	0.0541	
LA213	1830808.7776	6459698.0223	112.2896	1830808.7760	6459697.9850	-0.002	-0.037	0.0000	0.0014	
LA230	1829647.8964	6426905.4071	162.4027	1829648.8850	6426905.8360	0.989	0.429	0.9773	0.1840	
LA235	1807025.3313	6441904.7007	126.5234	1807026.3530	6441904.4500	1.022	-0.251	1.0439	0.0629	
LA286	1822237.7287	6441780.3153	35.7877	1822238.8260	6441780.4410	1.097	0.126	1.2041	0.0158	
NOPK	1815188.5969	6456163.0062	228.5420	1815188.4460	6456162.5160	-0.151	-0.490	0.0228	0.2403	
							Sums		4.2796	0.8783
							MSE		0.6114	0.1255
							RMSE_{yx} (ft)		0.7819	0.3542
							RMSE_r (ft) per NSSDA		0.8584	0.3542
							ACCURACY_r (ft) per NSSDA		1.4857	0.3542

All coordinates in U.S. Survey Feet

RESULT: Preliminary Pass

Horizontal Accuracy Acceptance Criteria
 RMSE_x and RMSE_y should be ≤ 1 ft
 RMSE_r must be ≤ 4.141 ft
 ACCURACY_r must be ≤ 2.5 ft at 95% conf level