

OPUS-RS solution : 018773_14_261_A0.14O OP1411507490964

opus <opus@ngs.noaa.gov>

Tue 9/23/2014 3:41 PM

To: John Freetly <John.Freetly@neciusa.com>;

FILE: 018773_14_261_A0.14O OP1411507490964

6011 Warning - OPUS-RS was able to find a set of reference stations
 6011 with data suitable for use with your dataset. However, your
 6011 position does not fall within the polygon enclosing these reference
 6011 stations. This means that the geographic interpolation algorithms
 6011 performed within OPUS-RS must instead perform extrapolation.
 6011 Extrapolation, especially if your position is far from the
 6011 reference stations, is prone to error. Use this solution with
 6011 caution.

wysh

bil6

p033

mtei

p722

Your station is 1.8 KM outside the polygon enclosing the reference stations

NGS OPUS-RS SOLUTION REPORT

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All computed coordinate accuracies are listed as 1-sigma RMS values.

For additional information: <http://www.ngs.noaa.gov/OPUS/about.jsp#accuracy>

USER: john.freetly@neciusa.com

DATE: September 23, 2014

RINEX FILE: 0187261t.14o

TIME: 21:41:06 UTC

SOFTWARE: rsgps 1.37 RS52.prl 1.99.2 START: 2014/09/18 19:47:35
 EPHEMERIS: igr18104.eph [rapid] STOP: 2014/09/18 20:46:55
 NAV FILE: brdc2610.14n OBS USED: 3445 / 3540 : 97%
 ANT NAME: CHCX90D-OPUS NONE QUALITY IND. 9.77/ 71.05
 ARP HEIGHT: 1.800 NORMALIZED RMS: 0.307

REF FRAME: NAD_83(2011)(EPOCH:2010.0000)

IGS08 (EPOCH:2014.71464)

X: -1336297.657(m) 0.007(m) -1336298.516(m) 0.007(m)

Y: -4308513.189(m) 0.009(m) -4308511.933(m) 0.009(m)

Z: 4495627.782(m) 0.015(m) 4495627.738(m) 0.015(m)

LAT: 45 5 40.91628 0.009(m) 45 5 40.93696 0.009(m)

E LON: 252 46 6.86701 0.006(m) 252 46 6.81248 0.006(m)

W LON: 107 13 53.13299 0.006(m) 107 13 53.18752 0.006(m)

EL HGT: 1191.384(m) 0.016(m) 1190.686(m) 0.016(m)

ORTHO HGT: 1205.147(m) 0.018(m) [NAVD88 (Computed using GEOID12A)]

UTM COORDINATES STATE PLANE COORDINATES

UTM (Zone 13) SPC (2500 MT)

Northing (Y) [meters] 4995892.587 96473.970

Easting (X) [meters] 324419.540 778540.124

Convergence [degrees] -1.58086437 1.65947154

Point Scale 0.99997908 0.99994448

Combined Factor 0.99979233 0.99975773

US NATIONAL GRID DESIGNATOR: 13TCK2441995892(NAD 83)

BASE STATIONS USED

PID DESIGNATION LATITUDE LONGITUDE DISTANCE(m)

DM7161 WYSH SHERIDAN CORS ARP N444801.769 W1070035.715 37082.2

DI3064 BIL6 BILLINGS 6 CORS ARP N455816.251 W1075948.499 114313.2

DJ8992 P033 TENSLEEPTRWY2005 CORS ARP N435710.415 W1072315.121 127509.4

DG9745 MTEI ENGINC CORS ARP N454447.035 W1083600.736 129335.2

DL7758 P722 YNPBASSRCHMT2005 CORS ARP N452725.985 W1093415.586 187974.0

NEAREST NGS PUBLISHED CONTROL POINT

QV0316 RED BLUFF N450211.338 W1071134.002 7157.6

This position and the above vector components were computed without any knowledge by the National Geodetic Survey regarding the equipment or field operating procedures used.