

OPUS-RS solution : 018697_14_268_A1.14O OP1411934723555

opus <opus@ngs.noaa.gov>

Sun 9/28/2014 2:11 PM

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

FILE: 018697_14_268_A1.14O OP1411934723555

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
RINEX FILE: 0186268t.14oDATE: September 28, 2014
TIME: 20:10:31 UTCSOFTWARE: rsgps 1.37 RS54.prl 1.99.2 START: 2014/09/25 19:09:00
EPHEMERIS: igr18114.eph [rapid] STOP: 2014/09/25 20:10:15
NAV FILE: brdc2680.14n OBS USED: 4194 / 4368 : 96%
ANT NAME: CHCX90D-OPUS NONE QUALITY IND. 26.78/ 60.38
ARP HEIGHT: 1.8000 NORMALIZED RMS: 0.292

REF FRAME: NAD_83(2011)(EPOCH:2010.0000) IGS08 (EPOCH:2014.73375)

X: -1381736.004(m) 0.006(m) -1381736.866(m) 0.006(m)
Y: -4266151.125(m) 0.015(m) -4266149.875(m) 0.015(m)
Z: 4521879.378(m) 0.014(m) 4521879.339(m) 0.014(m)LAT: 45 25 52.47045 0.007(m) 45 25 52.49087 0.007(m)
E LON: 252 3 13.37815 0.005(m) 252 3 13.32272 0.005(m)
W LON: 107 56 46.62185 0.005(m) 107 56 46.67728 0.005(m)
EL HGT: 1080.396(m) 0.020(m) 1079.720(m) 0.020(m)
ORTHO HGT: 1093.572(m) 0.022(m) [NAVD88 (Computed using GEOID12A)]

UTM COORDINATES STATE PLANE COORDINATES

UTM (Zone 12) SPC (2500 MT)

Northing (Y) [meters] 5035394.668 132490.675
Easting (X) [meters] 738865.719 721547.049
Convergence [degrees] 2.17651913 1.13654990
Point Scale 1.00030157 0.99976852
Combined Factor 1.00013216 0.99959920

US NATIONAL GRID DESIGNATOR: 12TYR3886535394(NAD 83)

BASE STATIONS USED

PID	DESIGNATION	LATITUDE	LONGITUDE	DISTANCE(m)
DG9745	MTEI ENGINC CORS ARP	N454447.035	W1083600.736	61903.4
DM7161	WYSH SHERIDAN CORS ARP	N4444801.769	W1070035.715	101714.0
DL7758	P722 YNPBASSRCHMT2005 CORS ARP	N452725.985	W1093415.586	127164.0
DM7133	MTLW LEWISTOWN CORS ARP	N470314.929	W1092633.764	214173.7
AI5647	MAWY MAMMOTH WYOMING CORS ARP	N445824.319	W1104121.433	221467.4
DI3425	P052 LRRNCHJRDNMT2006 CORS ARP	N472229.026	W1070107.185	227526.6

NEAREST NGS PUBLISHED CONTROL POINT

QV0360	BRINK	N452716.057	W1075557.061	2799.4
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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.