

opus <opus@ngs.noaa.gov>
6:36 AM (9 minutes ago)
to me

FILE: Base1_raw_202110011455.210 OP1633350901174

NGS OPUS SOLUTION REPORT
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All computed coordinate accuracies are listed as peak-to-peak values.
For additional information:
<https://www.ngs.noaa.gov/OPUS/about.jsp#accuracy>

USER: mquilter@utah.gov DATE: October 04,
2021
RINEX FILE: base274o.21o TIME: 12:36:26 UTC

SOFTWARE: page5 2008.25 master70.pl 160321 START: 2021/10/01 14:56:00
EPHEMERIS: igr21775.eph [rapid] STOP: 2021/10/01 17:55:00
NAV FILE: brdc2740.21n OBS USED: 4670 / 5376 : 87%
ANT NAME: EML_REACH_RS2 NONE # FIXED AMB: 29 / 34 : 85%
ARP HEIGHT: 2.134 OVERALL RMS: 0.016(m)

REF FRAME: NAD_83(2011) (EPOCH:2010.0000) ITRF2014 (EPOCH:2021.7498)

X:	-1809473.616(m)	0.009(m)	-1809474.580(m)	0.009(m)
Y:	-4516464.232(m)	0.025(m)	-4516462.940(m)	0.025(m)
Z:	4112375.374(m)	0.013(m)	4112375.250(m)	0.013(m)

LAT:	40 23 41.77201	0.021(m)	40 23 41.78663	0.021(m)
E LON:	248 10 1.25256	0.010(m)	248 10 1.19424	0.010(m)
W LON:	111 49 58.74744	0.010(m)	111 49 58.80576	0.010(m)
EL HGT:	1379.145(m)	0.018(m)	1378.424(m)	0.018(m)
ORTHO HGT:	1396.375(m)	0.066(m)	[NAVD88 (Computed using GEOID18)]	

	UTM COORDINATES	STATE PLANE COORDINATES
	UTM (Zone 12)	SPC (4301 UT N)
Northing (Y) [meters]	4471925.856	1006895.222
Easting (X) [meters]	429307.538	471727.747
Convergence [degrees]	-0.53984167	-0.21955556
Point Scale	0.99966151	1.00006749
Combined Factor	0.99944528	0.99985117

US NATIONAL GRID DESIGNATOR: 12TVK2930771925(NAD 83)

BASE STATIONS USED			
PID	DESIGNATION	LATITUDE	LONGITUDE
DG9776	P122 CNRSRNGS_UT2004	CORS ARP	N413807.289 W1121954.849
144031.2			
DL7737	P113 KNOLLSWESTUT2006	CORS ARP	N404016.678 W1131640.872
126242.6			
DQ8876	UTMN MAPLETON UT	CORS ARP	N400839.699 W1113544.075
34386.9			

NEAREST NGS PUBLISHED CONTROL POINT		
PID	DESIGNATION	COORDINATES
LO0504	J 56	N402350.000 W1115045.000
1119.9		

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.