Ground Control Survey Report

Southern California Wildfire LiDAR Ground Control

CA SoCAL Wildfires 2018 D18

Contract Number: G16PC00022
Task Order Number: 140G0218F0246

Contractor: Woolpert, Inc.
Woolpert Project # 78654

August 2018

Ground Control Survey Report

UNITED STATES GEOLOGICAL SURVEY – CA SoCAL Wildfires 2018 D18

Task Order G16PC00022

Woolpert
4454 Idea Center Boulevard
Dayton, Ohio 45430.1500
Phone: 937.461.5660

Table of Contents

Section 1: Survey Report 1-1

Section 2: Ground Control / Geodetic Control Coordinate Listings 2-1

Section 3: Ground Control / Photos 3-1

Section 4: Survey Control Stations 4-1

Section 5: GPS Control Diagram 5-1

Section 1: Survey Report

Introduction

This report contains a comprehensive outline of the Ground Control Survey that supported the Texas panhandle AOI. All surveys were performed in such a way as to achieve ground control accuracies that meet or exceed the National Mapping Accuracy Standards.

Project Area

The project area consists of approximately 9,489 square miles encompassing multiple AOI's in southwest California.

Purpose

The purpose of this survey was to establish three-dimensional coordinates for 275 LiDAR control points, 209 NVA check points, and 146 VVA check points. The points were collected per the flight layout and were uniformly dispersed over the project area.

Date of Survey

Ground control field operations took place June 19th thru August 9th of 2018.

Monumentation

Prior to aerial imagery acquisition, Woolpert field crews performed a field reconnaissance to verify the existence and suitability of pre-selected existing National Geodetic Survey (NGS) control stations. These existing NSRS control stations were utilized as checks to ensure that quality x, y, and z coordinate values were computed for each of the newly established photogrammetric control stations. Recovery information sheets for the existing NGS control stations can be found in Section 4 of this report. A control diagram showing the ground control stations used to support this mapping project can be found in Section 5 of this report.

Accuracy Standards

The data collected under this task order will meet ASPRS Positional Accuracy Standards for Digital Geospatial Data (Edition 1, Version 1.0) Guidelines.

- o The accuracy (ACCz) for the derived DEM will be calculated in three ways and reported in the metadata accordingly.
  - ▪ The RMSEz (Non-Vegetated) is required to meet ≤10.0 cm.
  - ▪ The Non-Vegetated Vertical Accuracy (NVA) is required to meet ≤19.6 cm at a 95% confidence level, derived according to ASPRS, i.e., based on RMSEz of 10.0 cm in the "open terrain" and/or "urban" land cover categories.

- ▪ The Vegetated Vertical Accuracy (VVA) is required to meet ≤30 cm at a 95th percentile level, derived according to ASPRS Guidelines, i.e., based on the 95th percentile error in Vegetated land cover categories combined (Tall Grass, Brush, Forested Areas).
- o The horizontal accuracy will be reported based upon ASPRS (2014) specifications. For example, the metadata statement will read, "This data set was produced to meet ASPRS 'Positional Accuracy Standards for Digital Geospatial Data" (2014) for a __ (cm) RMSEx / RMSEy Horizontal Accuracy Class which equated to a Positional Horizontal Accuracy = ± __ cm at a 95% confidence level.

o The relative vertical accuracy for intra-swath data shall meet ≤ 6 cm RMSDz smooth surface repeatability.
o The relative vertical accuracy for inter-swat data shall meet ≤ 8cm RMSDz between swath relative accuracy.

GPS Equipment

Woolpert utilized 8 Trimble Navigation R8 Model GNSS dual-frequency GPS receivers and 3 TSC3 data collector for this project.

Methodology

Real-Time Kinematic (RTK) GPS

The field crew utilized Real-Time Kinematic (RTK) GPS surveying throughout the ground control data collection process. Using RTK GPS techniques. The survey was conducted using a 1-second epoch rate, in a fixed solution RTK mode, with each observation lasting between 60 to 180 seconds. Each station was occupied twice to insure the necessary horizontal and vertical accuracies were being met for this LiDAR / photogrammetric project.

VRS Virtual Reference System or RTN Real Time Network.

The "Virtual Reference Station" (VRS) concept is based on having a network (spaced at 50-60kms) of GNSS (GPS or GPS/GLONASS) reference stations permanently connected to the control center via the Internet. The networked stations collectively and precisely, model ionospheric errors for the individual GNSS rover in the network coverage area. The rover interprets and uses the VRS network-correction data as if it is operating with a single physical base station on a very short baseline which increases the RTK performance. Corrections (vectors) are from the closest base, but because the ionospheric error (which is traditionally baseline dependent) is practically negated, the rover's degradation in accuracy due to baseline length starts when the rover is first initialized, that is, at the work site. Thus accuracies are increased and more consistent throughout the working region.

Static GPS

The field crew utilized Static GPS surveying throughout the ground control data collection process when more efficient methods could not be performed. The survey was conducted using a 1-second epoch rate, in a fixed solution, with each observation lasting at least 20 minutes. Each station was occupied twice to insure the necessary horizontal and vertical accuracies were being met for this photogrammetric project.

GPS Data Analysis and Processing

The field crew chief processed all session baselines each day using Trimble Navigation's Trimble Business Center (TBC) Version 5.00 baseline processor with the accompanying broadcast ephemeris. Daily processing ensured the integrity of the network as it was constructed, and allowed the field crews to immediately reschedule observations of poor baselines.

Datum Reference and Final Coordinates

The spatial reference system for the Southern California Wildfires AOI is NAD83 (2011) Albers Equal Area horizontal. Orthometric heights referenced to Geoid 12B. Units for both the horizontal and vertical datums will be expressed in Meters to two (2) decimal places.

Quality Assurance

Existing NGS published bench marks were surveyed to assure that there were no discrepancies in the field observation data. Close examinations of the residuals showed no distortions in orientation or scale. The ground control data meets positional accuracies necessary to support 1.0 point per 0.3 meters squared (1' GSD) data at 95% confidence level as outlined in the Geospatial Positioning Accuracy Standards, Part 3: National Standard for Spatial Data Accuracy (NSSDA), published by the Federal Geographic Data Committee (FGDC-STD-007.3-1998).

Section 2: Ground/Geodetic Control Coordinate Listings

Coordinate System: Albers Equal Area

HORIZONTAL DATUM: NAD83 2011 (2010.00 epoch)
VERTICAL DATUM: NAVD88
GEOID MODEL: GEOID12B
UNITS: Meters

Lidar Ground Control

Point	Northing	Easting	Elevation	Code
1001_2018_CA	1542701.96	-2104093.09	1286.38	GCP
1002_2018_CA	1555360.57	-2105236.90	1095.00	GCP
1003_2018_CA	1522204.81	-2104976.21	180.14	GCP
1004A_2018_CA	1567548.19	-2151431.19	1180.27	GCP
1005_2018_CA	1579089.03	-2211375.26	23.22	GCP
1006_2018_CA	1567767.97	-2207488.30	213.66	GCP
1007_2018_CA	1565447.30	-2206809.10	389.05	GCP
1008_2018_CA	1566240.71	-2203670.34	254.22	GCP
1009_2018_CA	1557573.28	-2199914.53	170.00	GCP
1010_2018_CA	1557551.41	-2198022.77	309.12	GCP
1011_2018_CA	1572559.66	-2194297.70	57.87	GCP
1012_2018_CA	1571298.59	-2189506.41	121.59	GCP
1013_2018_CA	1570047.97	-2198997.81	54.94	GCP
1014_2018_CA	1566546.32	-2185069.25	127.38	GCP
1015_2018_CA	1564086.08	-2180089.46	101.85	GCP
1016_2018_CA	1572864.96	-2183254.41	260.59	GCP
1017_2018_CA	1561045.38	-2175898.30	109.76	GCP
1018_2018_CA	1557513.76	-2178301.24	155.24	GCP
1019_2018_CA	1561956.07	-2184564.49	89.44	GCP
1020_2018_CA	1559426.63	-2171431.14	147.57	GCP
1021_2018_CA	1553066.64	-2179918.12	281.50	GCP
1022_2018_CA	1548137.36	-2161016.03	1247.11	GCP
1023_2018_CA	1543144.47	-2151860.50	813.81	GCP

Point	Northing	Easting	Elevation	Code
1024_2018_CA	1559394.84	-2167304.20	185.91	GCP
1025_2018_CA	1556741.72	-2163178.72	176.81	GCP
1026_2018_CA	1378933.58	-1881435.49	1642.83	GCP
1027_2018_CA	1384280.93	-1883548.68	1568.51	GCP
1028_2018_CA	1389907.07	-1891495.42	1442.76	GCP
1029_2018_CA	1545990.54	-2149312.77	321.62	GCP
1030_2018_CA	1400090.15	-1893508.86	1635.93	GCP
1031_2018_CA	1545741.40	-2143794.18	294.83	GCP
1032_2018_CA	1370803.31	-1880297.09	1471.87	GCP
1033_2018_CA	1537497.17	-2136208.84	1065.78	GCP
1034_2018_CA	1539001.35	-2138461.79	1198.95	GCP
1035_2018_CA	1380977.68	-1881212.90	1693.11	GCP
1036_2018_CA	1544259.51	-2140403.96	320.60	GCP
1037_2018_CA	1534440.96	-2129755.30	1025.69	GCP
1038_2018_CA	1378563.50	-1884027.63	1547.58	GCP
1039_2018_CA	1585506.13	-2120523.69	675.35	GCP
1040_2018_CA	1576246.66	-2108695.66	812.54	GCP
1041_2018_CA	1380456.45	-1887025.14	1353.77	GCP
1042_2018_CA	1533791.11	-2128301.20	924.68	GCP
1043_2018_CA	1529294.37	-2127936.69	171.40	GCP
1044_2018_CA	1526116.95	-2126553.95	4.95	GCP
1045_2018_CA	1386079.29	-1889941.46	1421.39	GCP
1046_2018_CA	1389156.97	-1894161.31	1292.68	GCP
1047_2018_CA	1524943.20	-2123382.55	13.81	GCP
1048_2018_CA	1554378.51	-2187386.15	293.12	GCP
1049_2018_CA	1568667.39	-2153968.43	1238.78	GCP
1050_2018_CA	1571103.68	-2156475.98	1062.87	GCP
1051A_2018_CA	1567055.27	-2150726.76	1090.71	GCP
1052_2018_CA	1490207.96	-2048770.73	478.20	GCP
1053A_2018_CA	1484154.11	-2053221.44	292.22	GCP
1054_2018_CA	1394033.59	-1889657.73	1702.66	GCP
1055_2018_CA	1494481.13	-2059788.29	277.02	GCP
1056_2018_CA	1464786.40	-1963995.29	1159.04	GCP
1057_2018_CA	1497004.71	-2065634.18	211.86	GCP
1058_2018_CA	1497232.48	-2071679.49	144.41	GCP
1059_2018_CA	1454711.11	-1950800.44	520.70	GCP
1060_2018_CA	1497151.73	-2077591.15	116.10	GCP

Point	Northing	Easting	Elevation	Code
1061_2018_CA	1498123.57	-2083665.33	116.45	GCP
1062_2018_CA	1471326.18	-1956211.91	1840.91	GCP
1063_2018_CA	1499520.37	-2089429.85	76.18	GCP
1064_2018_CA	1499801.98	-2094717.09	35.68	GCP
1065_2018_CA	1471521.12	-1954649.92	1670.69	GCP
1066_2018_CA	1503100.14	-2100454.57	71.15	GCP
1067_2018_CA	1522936.89	-2105923.69	235.43	GCP
1068_2018_CA	1391469.29	-1897410.52	814.62	GCP
1069_2018_CA	1519280.02	-2111789.26	345.61	GCP
1070A_2018_CA	1520340.54	-2114790.19	289.82	GCP
1071_2018_CA	1520197.87	-2120418.51	14.43	GCP
1072_2018_CA	1592344.65	-2129432.43	589.02	GCP
1073_2018_CA	1605232.65	-2143701.04	473.38	GCP
1074_2018_CA	1611277.77	-2151361.15	414.36	GCP
1075_2018_CA	1613802.09	-2154232.32	411.22	GCP
1076_2018_CA	1612724.38	-2157965.81	356.60	GCP
1077_2018_CA	1609576.47	-2163668.09	296.96	GCP
1078_2018_CA	1458355.68	-1938472.71	662.99	GCP
1079_2018_CA	1608193.87	-2169956.53	226.96	GCP
1080_2018_CA	1474775.55	-1948186.05	1127.16	GCP
1081_2018_CA	1609271.93	-2175742.15	206.53	GCP
1082_2018_CA	1609455.46	-2180233.29	248.23	GCP
1083_2018_CA	1617651.67	-2182822.99	322.53	GCP
1084_2018_CA	1479461.18	-2079073.80	602.28	GCP
1085_2018_CA	1506407.62	-2050894.08	258.85	GCP
1086_2018_CA	1494585.20	-1956020.04	1031.60	GCP
1087_2018_CA	1510099.31	-2056876.25	231.05	GCP
1088_2018_CA	1508630.55	-2062276.80	183.60	GCP
1089_2018_CA	1382180.09	-1905400.84	1117.43	GCP
1089A_2018_CA	1384388.05	-1907439.40	1025.58	GCP
1090_2018_CA	1518747.13	-2068650.98	717.03	GCP
1091_2018_CA	1522419.99	-2105632.66	192.08	GCP
1092_2018_CA	1541717.00	-2102976.01	1253.86	GCP
1093_2018_CA	1540155.42	-2099142.88	1187.81	GCP
1094_2018_CA	1535009.67	-2096168.77	1042.71	GCP
1095_2018_CA	1531719.58	-2092460.50	1034.17	GCP
1096_2018_CA	1532354.74	-2089559.24	1050.84	GCP

Point	Northing	Easting	Elevation	Code
1097_2018_CA	1519300.91	-2087343.56	511.44	GCP
1098_2018_CA	1517282.72	-2084973.85	292.65	GCP
1099_2018_CA	1509474.45	-2080761.22	103.03	GCP
1100_2018_CA	1563437.91	-2084013.59	2476.05	GCP
1101_2018_CA	1559959.18	-2077778.70	2542.14	GCP
1102_2018_CA	1544747.19	-2098679.83	2178.66	GCP
1103_2018_CA	1544150.08	-2064228.66	1189.40	GCP
1104_2018_CA	1545719.69	-2060724.77	1258.43	GCP
1105_2018_CA	1542043.87	-2068217.57	2031.29	GCP
1106_2018_CA	1550916.36	-2071859.98	1535.10	GCP
1107_2018_CA	1551977.49	-2074768.20	1551.85	GCP
1108_2018_CA	1553006.92	-2080080.08	1659.84	GCP
1109_2018_CA	1551537.85	-2083652.65	1513.96	GCP
1110_2018_CA	1563449.27	-2086084.12	2262.54	GCP
1111_2018_CA	1494415.32	-1953053.10	1035.44	GCP
1112_2018_CA	1543911.26	-2055502.74	979.15	GCP
1113_2018_CA	1488308.37	-1955952.59	1207.37	GCP
1114_2018_CA	1567530.97	-2103982.46	978.57	GCP
1115_2018_CA	1485329.22	-1957264.70	1427.58	GCP
1116_2018_CA	1567850.09	-2098068.54	1115.93	GCP
1117_2018_CA	1479244.41	-1957669.72	1816.23	GCP
1118_2018_CA	1566980.06	-2092095.14	1290.77	GCP
1119_2018_CA	1590040.77	-2142528.72	1350.50	GCP
1120_2018_CA	1587099.35	-2123675.74	648.28	GCP
1121_2018_CA	1468657.86	-1943527.40	890.83	GCP
1122_2018_CA	1584068.67	-2117513.25	690.70	GCP
1123_2018_CA	1480756.57	-1955071.25	1558.94	GCP
1124_2018_CA	1578539.89	-2112896.37	759.20	GCP
1125_2018_CA	1485702.84	-1953671.07	1297.21	GCP
1126_2018_CA	1522768.53	-2108217.87	206.23	GCP
1127_2018_CA	1547869.18	-2104717.96	1589.62	GCP
1128_2018_CA	1394754.05	-1901046.44	608.15	GCP
1129_2018_CA	1577195.50	-1926454.35	867.82	GCP
1131_2018_CA	1547868.15	-1939042.03	766.14	GCP
1132_2018_CA	1589725.08	-1934262.05	1045.13	GCP
1133_2018_CA	1587962.36	-1930705.85	1088.43	GCP
1135_2018_CA	1549600.02	-1944807.85	742.23	GCP

Point	Northing	Easting	Elevation	Code
1136_2018_CA	1551029.45	-1950598.61	713.22	GCP
1137_2018_CA	1552685.60	-1956306.91	701.43	GCP
1138_2018_CA	1515660.76	-2070112.00	179.05	GCP
1139_2018_CA	1554598.61	-1961996.78	705.66	GCP
1140_2018_CA	1556208.78	-1966921.56	734.90	GCP
1141_2018_CA	1558014.35	-1972443.99	805.37	GCP
1142_2018_CA	1560264.15	-1978184.40	777.20	GCP
1143_2018_CA	1511582.62	-2077828.92	247.90	GCP
1144_2018_CA	1568721.96	-1982384.68	853.76	GCP
1145_2018_CA	1559903.57	-1990463.99	847.27	GCP
1146_2018_CA	1541827.80	-2068413.72	2045.39	GCP
1147_2018_CA	1556264.61	-1997389.98	875.45	GCP
1148_2018_CA	1551274.43	-2004604.21	811.94	GCP
1149_2018_CA	1555639.67	-2009711.26	955.92	GCP
1150_2018_CA	1551526.84	-2016737.95	883.37	GCP
1151_2018_CA	1393890.21	-1890438.70	1663.42	GCP
1152_2018_CA	1551630.94	-2022805.24	946.33	GCP
1153_2018_CA	1551898.37	-2028845.60	982.31	GCP
1154_2018_CA	1399294.85	-1891925.87	1665.31	GCP
1155_2018_CA	1553306.54	-2034596.27	980.53	GCP
1156_2018_CA	1554095.19	-2041168.17	1010.74	GCP
1157_2018_CA	1467812.30	-1960506.34	1691.51	GCP
1158_2018_CA	1552134.83	-2047065.33	1126.51	GCP
1159_2018_CA	1396425.29	-1891069.07	2026.18	GCP
1160_2018_CA	1578774.00	-1997169.54	1241.44	GCP
1161_2018_CA	1575763.36	-1999133.46	1203.10	GCP
1162_2018_CA	1571199.96	-2002044.72	1366.75	GCP
1163_2018_CA	1566705.25	-2003948.79	1240.24	GCP
1164_2018_CA	1582572.65	-1998730.85	1285.60	GCP
1165_2018_CA	1607454.23	-1977414.13	1580.17	GCP
1166_2018_CA	1602905.22	-1946286.90	1098.22	GCP
1167-2018-CA	1599180.34	-1940934.69	818.86	GCP
1168_2018_CA	1592703.49	-1927531.88	945.91	GCP
1169_2018_CA	1600570.79	-1948326.27	1189.93	GCP
1170_2018_CA	1583381.52	-2000032.31	1377.21	GCP
1171_2018_CA	1563726.01	-2017640.44	1358.16	GCP
1172_2018_CA	1568342.57	-2013497.89	1811.25	GCP

Point	Northing	Easting	Elevation	Code
1173_2018_CA	1570489.85	-2006910.91	1528.33	GCP
1174_2018_CA	1560084.98	-2018871.91	1103.47	GCP
1175_2018_CA	1603735.07	-1989271.50	1825.91	GCP
1176_2018_CA	1608030.97	-1992993.27	2149.16	GCP
1177_2018_CA	1611670.45	-1985497.40	1913.34	GCP
1178_2018_CA	1434289.44	-1899453.11	1737.19	GCP
1179_2018_CA	1613535.08	-1973133.38	1545.48	GCP
1180_2018_CA	1601443.37	-1979263.09	1376.75	GCP
1181_2018_CA	1435045.12	-1901044.30	1591.58	GCP
1182_2018_CA	1435730.12	-1901305.15	1634.51	GCP
1183_2018_CA	1596128.57	-1982375.13	1212.23	GCP
1184_2018_CA	1590106.84	-1982760.30	1180.37	GCP
1185_2018_CA	1440354.34	-1893264.82	2360.43	GCP
1186_2018_CA	1584869.28	-1984044.07	1390.81	GCP
1187_2018_CA	1436543.41	-1885588.27	2534.16	GCP
1188_2018_CA	1581129.50	-1997023.02	1348.42	GCP
1189_2018_CA	1578549.86	-1988836.27	1872.58	GCP
1190_2018_CA	1382902.63	-1986925.99	76.54	GCP
1191_2018_CA	1393951.83	-1990716.51	19.90	GCP
1192_2018_CA	1462591.86	-1943489.81	725.30	GCP
1193_2018_CA	1398529.27	-1986734.46	114.06	GCP
1194_2018_CA	1402065.72	-1981831.54	116.41	GCP
1195_2018_CA	1394913.58	-1887507.70	1976.52	GCP
1196_2018_CA	1405987.02	-1977307.75	251.31	GCP
1197_2018_CA	1408073.48	-1974192.20	387.27	GCP
1198_2018_CA	1392474.77	-1963042.22	349.18	GCP
1199_2018_CA	1394219.25	-1956770.75	688.50	GCP
1200_2018_CA	1431543.62	-1918301.03	629.50	GCP
1201_2018_CA	1432095.51	-1922029.47	619.66	GCP
1202_2018_CA	1431995.15	-1925739.86	442.69	GCP
1203_2018_CA	1384624.69	-1964663.71	641.05	GCP
1204_2018_CA	1405335.12	-1962238.59	1171.90	GCP
1205_2018_CA	1412061.06	-1972534.89	389.51	GCP
1206_2018_CA	1425806.82	-1978328.88	258.55	GCP
1207_2018_CA	1427915.19	-1975206.31	134.82	GCP
1208_2018_CA	1406345.51	-1958488.45	687.97	GCP
1209_2018_CA	1398319.84	-1952426.86	388.00	GCP

Point	Northing	Easting	Elevation	Code
1210_2018_CA	1400089.84	-1947130.87	397.30	GCP
1211_2018_CA	1401292.70	-1944309.82	487.15	GCP
1212_2018_CA	1410183.36	-1946510.99	672.77	GCP
1213_2018_CA	1411512.61	-1942942.77	695.16	GCP
1214_2018_CA	1420940.53	-1945216.55	469.23	GCP
1215_2018_CA	1423494.36	-1914601.54	712.84	GCP
1216_2018_CA	1423952.86	-1939969.88	499.69	GCP
1217_2018_CA	1426678.65	-1935472.27	553.94	GCP
1218_2018_CA	1427933.37	-1931663.89	587.07	GCP
1219_2018_CA	1431020.90	-1926467.38	521.48	GCP
1220_2018_CA	1415552.28	-1907101.66	781.54	GCP
1221_2018_CA	1443566.66	-1929527.55	332.45	GCP
1222_2018_CA	1445575.50	-1926321.25	377.96	GCP
1223_2018_CA	1444668.82	-1920913.34	608.72	GCP
1224_2018_CA	1427899.44	-1906412.32	1193.49	GCP
1225_2018_CA	1431348.67	-1904672.44	1405.03	GCP
1226_2018_CA	1433700.24	-1898401.21	1829.14	GCP
1227_2018_CA	1437230.61	-1905709.74	1236.45	GCP
1228_2018_CA	1437266.71	-1886741.82	2510.97	GCP
1229_2018_CA	1441117.92	-1889010.56	1982.04	GCP
1230_2018_CA	1444788.85	-1881819.39	2424.41	GCP
1231_2018_CA	1444927.58	-1894986.05	1812.02	GCP
1232_2018_CA	1446907.22	-1893220.57	2408.93	GCP
1233_2018_CA	1397459.18	-1927154.99	448.64	GCP
1234_2018_CA	1452088.66	-1899592.39	2058.00	GCP
1235_2018_CA	1399851.36	-1924236.61	484.50	GCP
1236_2018_CA	1456302.50	-1892593.11	2229.06	GCP
1237_2018_CA	1459159.48	-1893486.41	2285.07	GCP
1238_2018_CA	1445023.82	-1900876.53	1487.88	GCP
1239_2018_CA	1445004.03	-1906448.09	1221.67	GCP
1240_2018_CA	1444740.63	-1910771.32	1107.87	GCP
1241_2018_CA	1444987.33	-1915704.47	1220.43	GCP
1242_2018_CA	1454538.42	-1916308.69	1885.59	GCP
1243_2018_CA	1458357.06	-1929974.03	1474.27	GCP
1244_2018_CA	1455867.34	-1957950.25	602.29	GCP
1245_2018_CA	1457982.88	-1956670.15	880.55	GCP
1246_2018_CA	1446352.45	-1948634.01	370.71	GCP

Point	Northing	Easting	Elevation	Code
1247_2018_CA	1457665.97	-1968767.69	586.03	GCP
1248_2018_CA	1511864.56	-2069827.39	193.84	GCP
1249_2018_CA	1402239.74	-1904110.31	600.68	GCP
1250_2018_CA	1419916.83	-1910841.97	777.75	GCP
1251_2018_CA	1433958.29	-1933444.15	423.86	GCP
1252_2018_CA	1435952.12	-1930254.20	396.84	GCP
1253_2018_CA	1510369.30	-2081504.04	116.84	GCP
1256_2018_CA	1525721.62	-2085201.39	1679.95	GCP
1301_2018_CA	1553875.25	-1958161.93	698.20	GCP
1302_2018_CA	1542233.29	-1963838.34	693.12	GCP
1309_2018_CA	1551179.45	-1971682.83	729.97	GCP
1310_2018_CA	1553845.08	-1963314.55	707.01	GCP
1311_2018_CA	1550642.96	-1967146.62	777.84	GCP
1312_2018_CA	1551317.12	-1962401.94	692.84	GCP
1313_2018_CA	1546578.56	-1964734.57	693.77	GCP
1314_2018_CA	1540357.25	-1965667.81	695.67	GCP
1315_2018_CA	1539670.02	-1969834.94	700.45	GCP
1316_2018_CA	1545480.66	-1968397.98	708.51	GCP
1317_2018_CA	1545878.90	-1951289.34	712.48	GCP
1318_2018_CA	1545701.74	-1948470.93	759.91	GCP
1319_2018_CA	1545832.18	-1943910.70	784.17	GCP
1320_2018_CA	1541549.14	-1941081.61	835.45	GCP
1323_2018_CA	1534736.01	-1943459.41	911.43	GCP
1324_2018_CA	1536989.27	-1948702.73	857.39	GCP
1325_2018_CA	1541308.04	-1952418.43	768.38	GCP
1325A_2018_CA	1541329.45	-1952455.49	767.62	GCP
1326_2018_CA	1542597.59	-1948860.96	934.06	GCP
1327_2018_CA	1541538.46	-1944513.04	888.61	GCP
1328_2018_CA	1538904.36	-1946765.68	892.14	GCP
1329_2018_CA	1541538.46	-1944513.04	888.61	GCP

NVA Check Points

Point	Northing	Easting	Elevation	Code
2001_2018_CA	1525749.59	-2087649.85	1604.16	NVA
2002_2018_CA	1541795.85	-2068483.63	2046.23	NVA
2003_2018_CA	1532018.78	-2094532.54	1059.50	NVA

Point	Northing	Easting	Elevation	Code
2004_2018_CA	1538230.15	-2067564.94	2053.22	NVA
2005_2018_CA	1531999.65	-2108029.51	462.12	NVA
2006_2018_CA	1525084.26	-2101823.12	221.86	NVA
2007_2018_CA	1521822.78	-2094547.95	265.38	NVA
2008_2018_CA	1516143.33	-2105740.22	89.42	NVA
2009_2018_CA	1519552.66	-2066546.82	680.85	NVA
2010_2018_CA	1501094.05	-2100907.80	37.96	NVA
2011_2018_CA	1501193.46	-2100615.38	39.95	NVA
2012_2018_CA	1490984.79	-2097680.80	11.17	NVA
2013_2018_CA	1490955.92	-2097667.66	11.03	NVA
2014_2018_CA	1483381.29	-2093116.02	2.64	NVA
2015_2018_CA	1489479.59	-2087530.36	20.95	NVA
2016_2018_CA	1485746.62	-2076211.69	250.69	NVA
2017_2018_CA	1514285.10	-2084797.56	211.87	NVA
2018_2018_CA	1484257.23	-2064109.64	372.00	NVA
2019_2018_CA	1516668.44	-2054223.59	338.46	NVA
2020_2018_CA	1494605.59	-2068994.93	196.40	NVA
2021_2018_CA	1494682.45	-2053027.94	353.79	NVA
2022_2018_CA	1503567.86	-2077846.36	282.38	NVA
2023_2018_CA	1507689.03	-2067400.33	148.86	NVA
2025_2018_CA	1508114.94	-2093115.00	115.29	NVA
2026_2018_CA	1513778.94	-2054411.84	363.44	NVA
2027_2018_CA	1550507.16	-2077474.16	1562.09	NVA
2028_2018_CA	1550730.05	-2095460.74	1177.87	NVA
2029_2018_CA	1555334.26	-2105195.10	1095.65	NVA
2030_2018_CA	1559137.62	-2104381.14	1006.42	NVA
2031_2018_CA	1563944.04	-2106169.04	951.36	NVA
2032_2018_CA	1571055.86	-2107822.85	856.49	NVA
2033_2018_CA	1581800.89	-2108409.18	747.67	NVA
2034_2018_CA	1577504.43	-2108820.89	793.91	NVA
2035_2018_CA	1540497.36	-2080164.42	1465.05	NVA
2036_2018_CA	1568031.59	-2107135.31	907.45	NVA
2037_2018_CA	1581098.23	-2122145.04	762.98	NVA
2038_2018_CA	1544733.48	-2098624.30	2177.62	NVA
2039_2018_CA	1588517.12	-2125102.41	626.17	NVA
2040_2018_CA	1594669.29	-2140392.72	695.66	NVA
2041_2018_CA	1590173.48	-2134697.69	755.16	NVA

Point	Northing	Easting	Elevation	Code
2042_2018_CA	1596102.02	-2134845.62	556.72	NVA
2043_2018_CA	1601253.79	-2138223.52	504.02	NVA
2044_2018_CA	1609232.35	-2148902.23	429.83	NVA
2045_2018_CA	1624758.33	-2164361.91	711.78	NVA
2046_2018_CA	1611499.64	-2174501.51	200.14	NVA
2047_2018_CA	1613739.52	-2171998.30	220.49	NVA
2048_2018_CA	1609641.94	-2163591.25	299.72	NVA
2049_2018_CA	1617849.49	-2157570.15	413.37	NVA
2050_2018_CA	1602179.89	-2167002.62	469.58	NVA
2051_2018_CA	1566980.66	-2083811.43	1857.55	NVA
2052_2018_CA	1583958.67	-2136435.63	1665.23	NVA
2053_2018_CA	1586489.32	-2141901.73	1640.80	NVA
2054_2018_CA	1590985.88	-2145664.84	1506.89	NVA
2055_2018_CA	1597727.20	-2149153.58	1499.26	NVA
2056_2018_CA	1593033.24	-2130789.32	578.89	NVA
2057_2018_CA	1586490.33	-2127153.28	684.69	NVA
2058_2018_CA	1602741.69	-2151486.88	1267.07	NVA
2059_2018_CA	1475423.14	-2085520.72	9.09	NVA
2060_2018_CA	1553430.05	-2048594.50	1174.82	NVA
2061_2018_CA	1552055.31	-2038126.17	951.07	NVA
2062_2018_CA	1561630.99	-1967862.71	833.73	NVA
2063_2018_CA	1549910.05	-2030973.31	910.59	NVA
2064_2018_CA	1549350.89	-2025216.25	891.34	NVA
2065_2018_CA	1548281.18	-2020672.10	857.86	NVA
2066_2018_CA	1546679.43	-2013648.53	799.54	NVA
2067_2018_CA	1544362.82	-2003552.49	741.73	NVA
2068_2018_CA	1545318.11	-1990276.00	716.32	NVA
2069_2018_CA	1545321.94	-1990293.54	716.10	NVA
2070_2018_CA	1565857.05	-1987096.75	844.32	NVA
2071_2018_CA	1565871.94	-1987096.54	844.45	NVA
2074_2018_CA	1558990.85	-1942427.24	813.78	NVA
2077_2018_CA	1526403.17	-1948645.85	882.80	NVA
2078_2018_CA	1593502.93	-1942215.47	692.39	NVA
2079_2018_CA	1520886.88	-1946035.84	935.58	NVA
2080_2018_CA	1554744.62	-1980860.78	761.58	NVA
2081_2018_CA	1556794.38	-1986615.65	784.20	NVA
2082_2018_CA	1560084.71	-2001307.60	962.00	NVA

Point	Northing	Easting	Elevation	Code
2083_2018_CA	1563328.71	-2002454.78	1077.31	NVA
2084_2018_CA	1558652.35	-2007532.90	1085.67	NVA
2085_2018_CA	1572002.94	-1933266.42	868.74	NVA
2086_2018_CA	1556082.46	-2017817.12	991.44	NVA
2087_2018_CA	1555130.08	-2021872.52	1084.80	NVA
2088_2018_CA	1555534.55	-2029917.35	1128.74	NVA
2089_2018_CA	1558072.65	-2014487.66	1078.14	NVA
2089A_2018_CA	1555062.49	-2014520.83	956.47	NVA
2090_2018_CA	1601928.34	-1982949.34	1204.43	NVA
2091_2018_CA	1579680.82	-1997853.91	1254.75	NVA
2092_2018_CA	1582693.11	-2002465.37	1329.26	NVA
2093_2018_CA	1575495.25	-1987740.36	1122.50	NVA
2094_2018_CA	1573312.15	-2006321.52	1336.56	NVA
2095_2018_CA	1568877.29	-1994464.04	1086.47	NVA
2098_2018_CA	1562611.52	-1952937.23	745.55	NVA
2099_2018_CA	1570492.38	-1950891.82	820.33	NVA
2100_2018_CA	1575844.27	-1948062.88	907.11	NVA
2101_2018_CA	1582575.96	-1944772.56	1100.57	NVA
2102_2018_CA	1591560.54	-1958304.10	589.77	NVA
2103_2018_CA	1602114.12	-1962302.46	1008.24	NVA
2104_2018_CA	1590976.06	-1968185.54	725.69	NVA
2105_2018_CA	1582572.58	-1971800.73	715.35	NVA
2106_2018_CA	1575145.52	-1978513.98	808.91	NVA
2107_2018_CA	1495916.48	-1954487.19	1006.35	NVA
2108_2018_CA	1500777.11	-1953330.03	939.71	NVA
2109_2018_CA	1505861.97	-1953453.24	890.31	NVA
2110_2018_CA	1491765.15	-1954616.39	1090.23	NVA
2111_2018_CA	1490515.41	-1956537.03	1128.00	NVA
2112_2018_CA	1489091.63	-1953843.00	1173.90	NVA
2113_2018_CA	1483672.89	-1956567.13	1516.09	NVA
2114_2018_CA	1483127.36	-1957195.26	1605.34	NVA
2115_2018_CA	1475825.04	-1954599.13	1762.67	NVA
2116_2018_CA	1471256.61	-1956232.07	1845.52	NVA
2117_2018_CA	1471268.95	-1946300.27	1003.76	NVA
2118_2018_CA	1466428.62	-1945188.51	869.83	NVA
2119_2018_CA	1420940.10	-1942575.88	499.66	NVA
2120_2018_CA	1433009.65	-1960921.61	179.36	NVA

Point	Northing	Easting	Elevation	Code
2121_2018_CA	1432991.14	-1960925.83	179.39	NVA
2122_2018_CA	1420922.49	-1942580.15	499.51	NVA
2123_2018_CA	1468546.07	-1950812.89	1297.82	NVA
2124_2018_CA	1462004.74	-1965572.74	896.79	NVA
2125_2018_CA	1457669.37	-1962005.46	701.41	NVA
2126_2018_CA	1457940.66	-1945062.36	684.89	NVA
2127_2018_CA	1452602.81	-1950737.37	446.46	NVA
2128_2018_CA	1449926.80	-1940146.54	444.91	NVA
2129_2018_CA	1453244.76	-1933739.92	449.99	NVA
2130_2018_CA	1454044.06	-1906218.53	2174.61	NVA
2131_2018_CA	1456308.87	-1921699.77	1715.07	NVA
2132_2018_CA	1442332.49	-1891611.93	1979.13	NVA
2133_2018_CA	1439095.31	-1925026.61	403.92	NVA
2134_2018_CA	1448393.93	-1922223.22	634.53	NVA
2135_2018_CA	1450999.16	-1893666.83	2080.72	NVA
2136_2018_CA	1446895.76	-1883602.40	2281.33	NVA
2137_2018_CA	1448679.23	-1900552.64	2408.44	NVA
2138_2018_CA	1441689.99	-1905248.31	1702.84	NVA
2139_2018_CA	1413048.42	-1916263.39	465.92	NVA
2140_2018_CA	1436374.24	-1914587.73	718.87	NVA
2141_2018_CA	1428442.02	-1912987.62	792.52	NVA
2142_2018_CA	1422637.19	-2013738.35	3.03	NVA
2143_2018_CA	1428964.95	-2007346.05	11.95	NVA
2143A_2018_CA	1425614.57	-2012190.65	4.00	NVA
2144_2018_CA	1431962.16	-2001472.97	26.79	NVA
2145_2018_CA	1431427.43	-1995244.87	49.98	NVA
2146_2018_CA	1436551.66	-1998432.75	142.24	NVA
2147_2018_CA	1436592.42	-1991735.93	107.07	NVA
2148_2018_CA	1435805.49	-1984190.44	307.14	NVA
2149_2018_CA	1431297.21	-1985861.29	107.52	NVA
2150_2018_CA	1411035.44	-2003357.61	4.36	NVA
2151_2018_CA	1416636.16	-1997268.37	20.67	NVA
2152_2018_CA	1422279.98	-1991844.34	54.30	NVA
2153_2018_CA	1420205.63	-1982540.80	172.51	NVA
2154_2018_CA	1391211.64	-1977219.63	179.51	NVA
2155_2018_CA	1384637.94	-1981798.27	64.52	NVA
2156_2018_CA	1400149.84	-1970206.44	349.30	NVA

Point	Northing	Easting	Elevation	Code
2157_2018_CA	1392380.78	-1951314.76	930.82	NVA
2158_2018_CA	1419886.16	-1965522.38	409.10	NVA
2159_2018_CA	1432904.42	-1970862.56	178.26	NVA
2160_2018_CA	1450688.31	-1971865.78	322.43	NVA
2161_2018_CA	1447535.82	-1961444.19	311.64	NVA
2161A_2018_CA	1447443.77	-1961447.78	311.09	NVA
2162_2018_CA	1440856.24	-1952157.94	284.27	NVA
2163_2018_CA	1440788.29	-1942612.82	307.06	NVA
2163A_2018_CA	1440797.09	-1942650.18	307.36	NVA
2164_2018_CA	1431475.23	-1948773.62	233.90	NVA
2165_2018_CA	1420210.22	-1952160.25	403.16	NVA
2166_2018_CA	1382518.99	-1889720.52	1432.61	NVA
2167_2018_CA	1390438.18	-1903954.47	682.23	NVA
2168_2018_CA	1395478.73	-1912803.96	559.20	NVA
2169_2018_CA	1409297.47	-1926768.23	448.83	NVA
2170_2018_CA	1407798.60	-1937191.46	483.19	NVA
2171_2018_CA	1407538.87	-1954822.61	363.38	NVA
2172_2018_CA	1396607.13	-1938429.00	425.41	NVA
2173_2018_CA	1579140.82	-2209896.41	5.29	NVA
2174A_2018_CA	1567848.71	-2150154.47	993.78	NVA
2175_2018_CA	1567774.24	-2207484.48	213.19	NVA
2176_2018_CA	1542654.77	-2104025.74	1281.80	NVA
2177_2018_CA	1579762.69	-2200449.31	73.02	NVA
2178_2018_CA	1576013.06	-2192304.34	146.53	NVA
2179A_2018_CA	1571115.43	-2200722.08	27.77	NVA
2179B_2018_CA	1571097.99	-2200658.57	28.12	NVA
2180_2018_CA	1533334.06	-2142889.72	58.07	NVA
2181_2018_CA	1533337.41	-2142903.62	58.48	NVA
2182_2018_CA	1562527.64	-2194387.25	132.83	NVA
2183_2018_CA	1557458.94	-2207192.68	29.06	NVA
2184_2018_CA	1566325.86	-2202061.35	124.90	NVA
2185_2018_CA	1551727.15	-2183085.55	104.20	NVA
2186_2018_CA	1543432.48	-2170380.49	11.90	NVA
2187_2018_CA	1540204.47	-2162199.71	45.06	NVA
2188_2018_CA	1528462.97	-2125157.08	253.96	NVA
2189_2018_CA	1533784.36	-2128289.31	924.19	NVA
2190_2018_CA	1563916.38	-2150036.34	700.26	NVA

Point	Northing	Easting	Elevation	Code
2191_2018_CA	1571219.88	-2157357.87	968.67	NVA
2192_2018_CA	1545875.79	-2145444.21	280.40	NVA
2193_2018_CA	1557911.01	-2160298.39	213.14	NVA
2194A_2018_CA	1563861.61	-2150466.23	730.84	NVA
2195_2018_CA	1570570.97	-2167422.06	309.08	NVA
2196_2018_CA	1567345.27	-2174280.67	180.24	NVA
2197_2018_CA	1557346.32	-2174332.78	130.16	NVA
2198_2018_CA	1569545.23	-2184262.69	184.29	NVA
2199_2018_CA	1542417.30	-2150776.40	894.24	NVA
2200_2018_CA	1549683.10	-2164645.39	1019.02	NVA
2201_2018_CA	1596575.45	-1934499.71	878.51	NVA
2202_2018_CA	1570222.15	-1964838.27	709.19	NVA
2203_2018_CA	1598026.39	-2176995.07	122.10	NVA
2204_2018_CA	1384014.98	-1966177.61	475.58	NVA
2205_2018_CA	1397134.07	-1891920.87	1829.91	NVA
2206_2018_CA	1523992.03	-2120004.88	68.30	NVA
2207_2018_CA	1536740.73	-2133883.63	1106.86	NVA

VVA Check Points

Point	Northing	Easting	Elevation	Code
3001_2018_CA	1585479.82	-2120580.82	675.48	VVA
3002_2018_CA	1581783.56	-2108383.86	748.50	VVA
3003_2018_CA	1571097.15	-2107863.43	855.49	VVA
3004_2018_CA	1490727.35	-2096516.58	11.35	VVA
3005_2018_CA	1489475.14	-2087552.81	19.28	VVA
3006_2018_CA	1496751.23	-2091687.09	28.41	VVA
3007_2018_CA	1506342.93	-2092904.66	85.82	VVA
3008_2018_CA	1579140.99	-2115187.33	754.97	VVA
3009_2018_CA	1590054.29	-2142508.31	1350.78	VVA
3010_2018_CA	1583947.59	-2136406.93	1664.93	VVA
3011_2018_CA	1602109.32	-2167046.28	475.53	VVA
3012_2018_CA	1559979.71	-2077860.70	2544.34	VVA
3013_2018_CA	1592987.94	-2130756.41	575.58	VVA
3015_2018_CA	1547925.02	-2104673.03	1595.81	VVA
3016_2018_CA	1529222.27	-2091076.69	1546.69	VVA

Point	Northing	Easting	Elevation	Code
3017_2018_CA	1475483.20	-2085385.98	24.85	VVA
3018_2018_CA	1613661.34	-2154237.51	414.08	VVA
3019_2018_CA	1611414.65	-2162017.33	326.19	VVA
3020_2018_CA	1609261.01	-2175715.37	206.03	VVA
3021_2018_CA	1602760.78	-2151509.24	1266.56	VVA
3022_2018_CA	1588752.46	-2125285.51	622.89	VVA
3023_2018_CA	1624713.48	-2164303.38	706.62	VVA
3024_2018_CA	1567985.51	-2107124.39	907.88	VVA
3025_2018_CA	1559155.32	-2104314.20	1008.05	VVA
3026_2018_CA	1550486.18	-2077523.74	1562.75	VVA
3027_2018_CA	1550718.38	-2095501.14	1177.52	VVA
3028_2018_CA	1563487.88	-2084009.23	2481.49	VVA
3029_2018_CA	1541744.32	-2068382.02	2045.36	VVA
3030_2018_CA	1503302.12	-2070634.38	394.67	VVA
3031_2018_CA	1520738.08	-2065728.86	780.08	VVA
3032_2018_CA	1514490.16	-2054832.29	343.80	VVA
3033_2018_CA	1494731.30	-2053022.23	349.07	VVA
3034_2018_CA	1495041.64	-2063445.37	213.29	VVA
3035A_2018_CA	1484143.61	-2053425.15	299.36	VVA
3036_2018_CA	1483288.75	-2069963.98	304.71	VVA
3037_2018_CA	1531963.93	-2107972.59	462.07	VVA
3038_2018_CA	1540557.96	-2080160.38	1465.79	VVA
3039_2018_CA	1540156.52	-2099169.21	1187.06	VVA
3040_2018_CA	1522734.20	-2105870.79	215.01	VVA
3041_2018_CA	1566676.90	-2095064.99	1203.34	VVA
3042_2018_CA	1519019.25	-2109957.88	186.88	VVA
3043_2018_CA	1550668.10	-2002037.94	800.00	VVA
3044_2018_CA	1545683.80	-2013113.50	791.14	VVA
3045_2018_CA	1550202.98	-2035863.11	915.88	VVA
3047_2018_CA	1553301.67	-2048411.26	1170.66	VVA
3048_2018_CA	1554893.81	-2038498.68	1028.84	VVA
3049_2018_CA	1559333.61	-2030794.12	1350.05	VVA
3050_2018_CA	1556090.83	-2017793.45	991.08	VVA
3051_2018_CA	1555107.63	-2021874.94	1085.35	VVA
3052_2018_CA	1558625.76	-2007565.66	1083.97	VVA
3053_2018_CA	1560079.46	-2001286.96	962.81	VVA
3054_2018_CA	1570994.52	-2002866.33	1340.57	VVA

Point	Northing	Easting	Elevation	Code
3055_2018_CA	1580135.01	-1997917.54	1256.32	VVA
3056_2018_CA	1578583.26	-1988822.13	1868.61	VVA
3057_2018_CA	1590968.21	-1968157.71	729.14	VVA
3058_2018_CA	1591525.95	-1958350.53	588.88	VVA
3059_2018_CA	1603750.85	-1975533.48	1337.45	VVA
3060_2018_CA	1599165.21	-1940901.92	821.16	VVA
3061_2018_CA	1582587.11	-1944727.67	1102.52	VVA
3062_2018_CA	1570472.07	-1950847.40	820.58	VVA
3063_2018_CA	1575139.91	-1978455.74	808.02	VVA
3064_2018_CA	1559096.43	-1975399.40	805.81	VVA
3066_2018_CA	1558608.45	-1953792.45	725.93	VVA
3070_2018_CA	1526218.00	-1946625.70	918.35	VVA
3071_2018_CA	1554383.37	-1980983.89	760.29	VVA
3073_2018_CA	1582567.66	-1971775.16	714.67	VVA
3074_2018_CA	1573431.45	-1933233.07	879.87	VVA
3075_2018_CA	1603701.28	-1989093.15	1769.74	VVA
3076_2018_CA	1457989.38	-1956645.92	881.22	VVA
3077_2018_CA	1457930.40	-1945063.06	683.64	VVA
3078_2018_CA	1442708.84	-1892239.95	2021.72	VVA
3079_2018_CA	1441149.84	-1889060.58	1977.85	VVA
3080_2018_CA	1442279.41	-1880214.74	2577.94	VVA
3081_2018_CA	1452078.89	-1888773.03	2061.21	VVA
3082_2018_CA	1456284.88	-1921705.53	1715.15	VVA
3083_2018_CA	1405899.81	-1961449.44	1077.57	VVA
3084_2018_CA	1436849.78	-1958833.79	212.75	VVA
3085_2018_CA	1433454.03	-1967995.89	169.80	VVA
3086_2018_CA	1393424.63	-1928688.70	440.35	VVA
3087_2018_CA	1400229.65	-1918180.96	460.22	VVA
3088_2018_CA	1412900.26	-1916247.10	460.64	VVA
3089_2018_CA	1397347.97	-1907322.34	535.51	VVA
3089A_2018_CA	1397687.30	-1908438.38	527.05	VVA
3090_2018_CA	1421427.51	-1909530.70	798.80	VVA
3090A_2018_CA	1421435.98	-1909496.91	799.76	VVA
3091_2018_CA	1411918.22	-1924535.95	438.54	VVA
3092_2018_CA	1403790.28	-1934523.82	431.55	VVA
3093_2018_CA	1434365.23	-1995275.35	70.88	VVA
3094_2018_CA	1441076.71	-1966004.78	229.25	VVA

Point	Northing	Easting	Elevation	Code
3095_2018_CA	1452468.50	-1950026.76	443.42	VVA
3096_2018_CA	1390486.88	-1915365.80	519.55	VVA
3097_2018_CA	1396590.71	-1938440.08	424.54	VVA
3098_2018_CA	1382700.07	-1889342.93	1403.61	VVA
3099_2018_CA	1392683.61	-1961124.68	394.72	VVA
3099A_2018_CA	1392722.28	-1961098.82	397.04	VVA
3100_2018_CA	1384006.81	-1966163.81	478.83	VVA
3101_2018_CA	1435650.31	-1982867.16	203.57	VVA
3102_2018_CA	1464151.23	-1964679.35	1103.48	VVA
3103_2018_CA	1471541.84	-1954673.32	1673.94	VVA
3104_2018_CA	1453270.56	-1933769.37	450.98	VVA
3105_2018_CA	1448417.97	-1922250.53	638.45	VVA
3106_2018_CA	1419775.16	-1965893.11	435.15	VVA
3107_2018_CA	1384416.38	-1907474.07	1027.21	VVA
3108_2018_CA	1391438.82	-1897438.51	808.12	VVA
3109_2018_CA	1394887.52	-1887449.33	1985.94	VVA
3110_2018_CA	1399900.64	-1893162.55	1643.07	VVA
3111_2018_CA	1402269.97	-1904061.99	605.68	VVA
3112_2018_CA	1420213.16	-1952192.85	402.10	VVA
3113_2018_CA	1426702.99	-1935134.17	562.38	VVA
3114_2018_CA	1432294.02	-1925550.84	448.92	VVA
3115_2018_CA	1415752.91	-1979389.80	245.09	VVA
3116_2018_CA	1411561.92	-1942979.24	699.46	VVA
3117_2018_CA	1396665.12	-1988753.36	66.60	VVA
3119_2018_CA	1441952.27	-1940326.17	326.18	VVA
3119A_2018_CA	1441994.34	-1940335.74	326.15	VVA
3120_2018_CA	1489037.13	-1953856.21	1174.81	VVA
3121_2018_CA	1497523.70	-1954117.11	981.63	VVA
3122_2018_CA	1505877.06	-1953504.46	890.42	VVA
3123_2018_CA	1571782.70	-2188918.50	141.08	VVA
3124_2018_CA	1563890.55	-2167414.45	233.76	VVA
3125_2018_CA	1575071.86	-2201984.00	21.08	VVA
3126_2018_CA	1567265.06	-2192991.88	59.57	VVA
3127_2018_CA	1528294.28	-2124818.19	351.40	VVA
3128_2018_CA	1579099.55	-2209891.49	5.41	VVA
3129_2018_CA	1577270.16	-2208319.24	8.19	VVA
3130_2018_CA	1559272.95	-2171464.06	152.01	VVA

Point	Northing	Easting	Elevation	Code
3131_2018_CA	1557438.18	-2196952.81	316.03	VVA
3132_2018_CA	1563791.71	-2150629.92	733.05	VVA
3133_2018_CA	1535339.68	-2143377.27	102.71	VVA
3134_2018_CA	1549694.64	-2164662.39	1017.53	VVA
3135_2018_CA	1554336.97	-2187331.13	295.24	VVA
3136_2018_CA	1523809.07	-2121528.40	32.59	VVA
3137_2018_CA	1535268.81	-2130728.00	1051.05	VVA
3138_2018_CA	1541342.77	-2164629.72	24.53	VVA
3139A_2018_CA	1567864.44	-2150157.32	993.20	VVA
3140_2018_CA	1568706.41	-2152714.95	1357.08	VVA
3141_2018_CA	1545281.67	-2144509.52	324.42	VVA
3142_2018_CA	1542484.78	-2150532.04	885.05	VVA
3143_2018_CA	1545220.78	-2142052.92	323.40	VVA
3144A_2018_CA	1563875.43	-2150471.74	731.49	VVA
3145_2018_CA	1557464.42	-2207214.72	26.01	VVA
3146_2018_CA	1601100.17	-2138140.15	502.19	VVA
3147_2018_CA	1409473.94	-2002529.28	22.48	VVA
3148_2018_CA	1425686.06	-2012173.18	4.29	VVA
3148A_2018_CA	1425631.06	-2012186.13	4.39	VVA
3149_2018_CA	1471832.29	-1941931.81	1058.97	VVA

Geodetic Control Points

Point	Northing	Easting	Elevation	Code
1_2018_CA	1546769.30	-1967086.47	728.12	TSM
2_2018_CA	1536973.85	-1948736.00	857.38	TSM
3_2018_CA	1543676.69	-1947040.65	990.46	TSM
100_2018_CA	1497242.19	-2066453.60	183.63	TSM
101_2018_CA	1483467.35	-2052585.61	284.97	TSM
102_2018_CA	1484935.28	-2071527.65	256.91	TSM
103_2018_CA	1496356.02	-2092250.11	25.25	TSM
104_2018_CA	1476914.35	-2087703.04	4.59	TSM
105_2018_CA	1492485.33	-2092066.65	14.07	TSM
106_2018_CA	1504346.40	-2097263.44	112.26	TSM
107_2018_CA	1521678.78	-2103510.52	168.29	TSM

Point	Northing	Easting	Elevation	Code
108_2018_CA	1519153.71	-2111067.54	278.56	TSM
109_2018_CA	1521940.97	-2122013.77	33.55	TSM
110_2018_CA	1535338.59	-2144114.44	109.93	TSM
111_2018_CA	1541294.84	-2164725.69	25.38	TSM
112_2018_CA	1554990.52	-2189053.34	240.89	TSM
113_2018_CA	1570728.73	-2197881.89	41.58	TSM
114_2018_CA	1567745.40	-2185879.87	156.02	TSM
115_2018_CA	1559373.29	-2171240.27	156.23	TSM
116_2018_CA	1571067.16	-2157500.11	948.59	TSM
117_2018_CA	1568215.93	-2149897.20	951.67	TSM
118_2018_CA	1546205.44	-2146358.97	286.71	TSM
119_2018_CA	1537543.19	-2136284.55	1065.31	TSM
301_2018_CA	1549404.11	-2025326.13	894.11	TSM
304_2018_CA	1601942.17	-1982938.11	1204.73	TSM
900_2018_CA	1509696.94	-2068146.31	144.66	TSM
901_2018_CA	1535304.24	-2144083.28	110.22	TSM
902_2018_CA	1531367.94	-2099352.97	706.63	TSM
903_2018_CA	1544684.56	-2057069.07	1038.29	TSM
904A_2018_CA	1579114.27	-2108988.35	765.02	TSM
904_2018_CA	1551376.84	-2075985.42	1554.11	TSM
905_2018_CA	1551449.09	-2101552.75	1080.79	TSM
989_2018_CA	1554253.15	-1949864.27	725.11	TSM
991_2018_CA	1526215.20	-1947025.22	917.25	TSM
992_2018_CA	1583776.94	-1931838.14	1122.82	TSM
993_2018_CA	1574895.58	-1939191.02	881.63	TSM
994_2018_CA	1492295.94	-1954715.54	1077.97	TSM
995_2018_CA	1592518.49	-1962662.74	693.88	TSM
995A_2018_CA	1462481.34	-1943281.73	733.36	TSM
996_2018_CA	1459929.28	-1965995.48	809.80	TSM
997_2018_CA	1609160.29	-2176193.07	210.23	TSM
998_2018_CA	1603062.60	-2139737.84	507.58	TSM
999_2018_CA	1581816.80	-2108413.20	747.39	TSM

Coordinate System: Geodetic

HORIZONTAL DATUM: NAD83 2011 (2010.00 epoch)
UNITS: Meters

Lidar Ground Control

Point	Latitude (Local)	Longitude (Local)	Ellipsoid Height (Local)	Code
1001_2018_CA	34°36'23.09418"	-119°21'41.20693"	1253.70	GCP
1002_2018_CA	34°42'49.29859"	-119°24'27.22987"	1062.52	GCP
1003_2018_CA	34°25'36.12832"	-119°18'58.10595"	145.45	GCP
1004A_2018_CA	34°43'02.95284"	-119°56'00.23723"	1146.21	GCP
1005_2018_CA	34°40'54.99788"	-120°36'13.50989"	-12.88	GCP
1006_2018_CA	34°35'34.68811"	-120°31'50.19416"	177.72	GCP
1007_2018_CA	34°34'28.03893"	-120°31'00.78926"	353.13	GCP
1008_2018_CA	34°35'18.49605"	-120°29'08.73758"	218.35	GCP
1009_2018_CA	34°31'19.43755"	-120°25'17.89057"	134.07	GCP
1010_2018_CA	34°31'34.22846"	-120°24'05.34909"	273.23	GCP
1011_2018_CA	34°39'51.95047"	-120°24'13.60489"	21.95	GCP
1012_2018_CA	34°39'51.81369"	-120°20'57.41458"	85.78	GCP
1013_2018_CA	34°37'55.30434"	-120°26'48.29451"	19.00	GCP
1014_2018_CA	34°37'59.98101"	-120°17'19.84209"	91.64	GCP
1015_2018_CA	34°37'23.83021"	-120°13'44.54038"	66.17	GCP
1016_2018_CA	34°41'31.52110"	-120°17'13.56452"	224.92	GCP
1017_2018_CA	34°36'23.09848"	-120°10'33.71724"	74.14	GCP
1018_2018_CA	34°34'13.60532"	-120°11'30.54470"	119.63	GCP
1019_2018_CA	34°35'41.12824"	-120°16'14.61007"	53.72	GCP
1020_2018_CA	34°36'08.81470"	-120°07'26.53541"	112.02	GCP
1021_2018_CA	34°31'41.95287"	-120°11'48.13103"	245.79	GCP
1022_2018_CA	34°31'40.93849"	-119°58'55.96387"	1211.93	GCP
1023_2018_CA	34°30'18.69826"	-119°52'16.35786"	778.73	GCP
1024_2018_CA	34°36'41.15548"	-120°04'48.14381"	150.46	GCP
1025_2018_CA	34°35'51.72982"	-120°01'43.81921"	141.48	GCP
1026_2018_CA	33°38'11.81578"	-116°35'02.67891"	1611.74	GCP
1027_2018_CA	33°40'45.46286"	-116°37'08.30811"	1537.44	GCP
1028_2018_CA	33°42'47.24064"	-116°42'59.25043"	1411.67	GCP
1029_2018_CA	34°32'07.82438"	-119°51'06.76578"	286.70	GCP
1030_2018_CA	33°47'53.53771"	-116°45'42.47121"	1604.81	GCP
1031_2018_CA	34°32'44.12239"	-119°47'32.96231"	260.17	GCP

Point	Latitude (Local)	Longitude (Local)	Ellipsoid Height (Local)	Code
1032_2018_CA	33°34'03.77525"	-116°33'11.04716"	1440.73	GCP
1033_2018_CA	34°29'27.33042"	-119°41'21.90951"	1031.12	GCP
1034_2018_CA	34°29'56.35260"	-119°43'02.84417"	1164.28	GCP
1035_2018_CA	33°39'17.69401"	-116°35'11.35280"	1662.04	GCP
1036_2018_CA	34°32'24.91923"	-119°45'08.59347"	286.07	GCP
1037_2018_CA	34°28'43.14497"	-119°36'45.06629"	991.10	GCP
1038_2018_CA	33°37'42.20299"	-116°36'38.49193"	1516.47	GCP
1039_2018_CA	34°56'29.27768"	-119°39'08.51979"	641.81	GCP
1040_2018_CA	34°53'13.90228"	-119°30'02.68514"	779.48	GCP
1041_2018_CA	33°38'20.97183"	-116°38'48.80976"	1322.62	GCP
1042_2018_CA	34°28'34.37399"	-119°35'43.07679"	890.12	GCP
1043_2018_CA	34°26'16.92266"	-119°34'45.49628"	136.31	GCP
1044_2018_CA	34°24'48.68036"	-119°33'21.79114"	-30.41	GCP
1045_2018_CA	33°40'57.62899"	-116°41'27.55572"	1390.26	GCP
1046_2018_CA	33°42'05.05083"	-116°44'34.70436"	1261.44	GCP
1047_2018_CA	34°24'37.07509"	-119°31'09.07945"	-21.49	GCP
1048_2018_CA	34°31'22.16446"	-120°16'46.85789"	257.29	GCP
1049_2018_CA	34°43'17.47498"	-119°57'48.66322"	1204.58	GCP
1050_2018_CA	34°44'13.25426"	-119°59'49.00131"	1028.54	GCP
1051A_2018_CA	34°42'53.23696"	-119°55'28.33796"	1056.66	GCP
1052_2018_CA	34°16'09.10481"	-118°38'03.87595"	443.72	GCP
1053A_2018_CA	34°12'25.82637"	-118°39'57.91005"	257.54	GCP
1054_2018_CA	33°45'09.87039"	-116°42'23.95825"	1671.65	GCP
1055_2018_CA	34°16'58.86509"	-118°45'45.48384"	242.29	GCP
1056_2018_CA	34°13'23.18135"	-117°40'03.96552"	1127.32	GCP
1057_2018_CA	34°17'33.07491"	-118°49'52.88102"	176.95	GCP
1058_2018_CA	34°16'53.81468"	-118°53'46.38074"	109.31	GCP
1059_2018_CA	34°09'42.73230"	-117°30'08.68161"	488.25	GCP
1060_2018_CA	34°16'05.80710"	-118°57'31.79483"	80.83	GCP
1061_2018_CA	34°15'49.32762"	-119°01'33.29356"	80.99	GCP
1062_2018_CA	34°17'44.90930"	-117°36'03.41289"	1809.71	GCP
1063_2018_CA	34°15'48.39044"	-119°05'26.95104"	40.52	GCP
1064_2018_CA	34°15'16.17895"	-119°08'51.76497"	-0.18	GCP
1065_2018_CA	34°18'02.35514"	-117°35'05.16506"	1639.44	GCP
1066_2018_CA	34°16'14.61716"	-119°13'02.47564"	35.21	GCP

Point	Latitude (Local)	Longitude (Local)	Ellipsoid Height (Local)	Code
1067_2018_CA	34°25'51.58066"	-119°19'41.41159"	200.80	GCP
1068_2018_CA	33°42'55.09886"	-116°46'58.37922"	783.15	GCP
1069_2018_CA	34°23'11.43569"	-119°22'50.84566"	310.42	GCP
1070A_2018_CA	34°23'21.00218"	-119°24'55.88252"	254.60	GCP
1071_2018_CA	34°22'32.29244"	-119°28'29.84764"	-21.16	GCP
1072_2018_CA	34°58'51.73115"	-119°45'58.80989"	555.40	GCP
1073_2018_CA	35°03'39.34279"	-119°57'16.03162"	439.57	GCP
1074_2018_CA	35°05'46.07300"	-120°03'11.46523"	380.49	GCP
1075_2018_CA	35°06'41.54633"	-120°05'27.35489"	377.32	GCP
1076_2018_CA	35°05'37.83680"	-120°07'40.50903"	322.65	GCP
1077_2018_CA	35°03'13.68253"	-120°10'48.71267"	262.79	GCP
1078_2018_CA	34°13'05.94524"	-117°22'47.88365"	630.79	GCP
1079_2018_CA	35°01'39.64230"	-120°14'37.00257"	192.42	GCP
1080_2018_CA	34°20'31.26606"	-117°31'25.71323"	1095.64	GCP
1081_2018_CA	35°01'26.16690"	-120°18'30.55046"	171.70	GCP
1082_2018_CA	35°00'55.28302"	-120°21'25.23991"	213.26	GCP
1083_2018_CA	35°04'49.21394"	-120°24'27.69806"	287.62	GCP
1084_2018_CA	34°06'41.19363"	-118°55'41.99063"	566.99	GCP
1085_2018_CA	34°24'19.79917"	-118°41'56.15011"	224.52	GCP
1086_2018_CA	34°29'55.85875"	-117°39'23.13272"	999.86	GCP
1087_2018_CA	34°25'29.63251"	-118°46'20.07832"	196.70	GCP
1088_2018_CA	34°24'02.38288"	-118°49'33.35860"	149.02	GCP
1089_2018_CA	33°37'06.94387"	-116°50'44.38773"	1085.79	GCP
1089A_2018_CA	33°38'02.09031"	-116°52'20.91557"	993.81	GCP
1090_2018_CA	34°28'29.78308"	-118°55'12.98682"	683.26	GCP
1091_2018_CA	34°25'37.71423"	-119°19'25.30791"	157.40	GCP
1092_2018_CA	34°36'01.08932"	-119°20'48.85351"	1221.18	GCP
1093_2018_CA	34°35'42.30960"	-119°18'06.73077"	1155.17	GCP
1094_2018_CA	34°33'24.82920"	-119°15'23.24684"	1009.82	GCP
1095_2018_CA	34°32'10.95913"	-119°12'29.50183"	1001.16	GCP
1096_2018_CA	34°32'53.36808"	-119°10'44.26439"	1017.98	GCP
1097_2018_CA	34°26'22.73491"	-119°07'14.90165"	477.23	GCP
1098_2018_CA	34°25'38.03630"	-119°05'24.91338"	258.28	GCP
1099_2018_CA	34°22'06.58502"	-119°01'29.51156"	67.99	GCP
1100_2018_CA	34°49'47.30466"	-119°12'08.58626"	2444.79	GCP

Point	Latitude (Local)	Longitude (Local)	Ellipsoid Height (Local)	Code
1101_2018_CA	34°48'47.08814"	-119°07'35.18947"	2511.12	GCP
1102_2018_CA	34°38'09.30963"	-119°18'33.07153"	2146.35	GCP
1103_2018_CA	34°42'17.82564"	-118°56'23.23914"	1157.88	GCP
1104_2018_CA	34°43'33.82078"	-118°54'23.27485"	1226.90	GCP
1105_2018_CA	34°40'41.28821"	-118°58'36.70139"	1999.76	GCP
1106_2018_CA	34°44'50.41830"	-119°02'21.10220"	1503.84	GCP
1107_2018_CA	34°45'01.08392"	-119°04'23.11896"	1520.55	GCP
1108_2018_CA	34°44'52.08870"	-119°07'57.32442"	1628.47	GCP
1109_2018_CA	34°43'38.47020"	-119°10'00.70286"	1482.41	GCP
1110_2018_CA	34°49'31.54474"	-119°13'28.42005"	2231.17	GCP
1111_2018_CA	34°30'12.09344"	-117°37'27.40502"	1003.67	GCP
1112_2018_CA	34°43'17.36266"	-118°50'45.21203"	947.29	GCP
1113_2018_CA	34°26'39.49294"	-117°38'24.54568"	1175.88	GCP
1114_2018_CA	34°49'19.00138"	-119°25'36.70445"	946.00	GCP
1115_2018_CA	34°24'56.51621"	-117°38'48.45355"	1396.27	GCP
1116_2018_CA	34°50'15.34275"	-119°21'52.18082"	1083.68	GCP
1117_2018_CA	34°21'42.71664"	-117°38'09.81816"	1785.18	GCP
1118_2018_CA	34°50'34.90520"	-119°17'53.81849"	1258.91	GCP
1119_2018_CA	34°55'55.33985"	-119°54'00.36289"	1317.10	GCP
1120_2018_CA	34°56'53.95824"	-119°41'25.53511"	614.70	GCP
1121_2018_CA	34°17'52.92915"	-117°27'32.65426"	859.08	GCP
1122_2018_CA	34°56'08.28999"	-119°36'58.50591"	657.21	GCP
1123_2018_CA	34°22'49.02333"	-117°36'43.41037"	1527.73	GCP
1124_2018_CA	34°53'52.32386"	-119°33'06.75161"	725.94	GCP
1125_2018_CA	34°25'34.33990"	-117°36'33.58306"	1265.75	GCP
1126_2018_CA	34°25'28.36404"	-119°21'07.64692"	171.51	GCP
1127_2018_CA	34°38'59.51699"	-119°22'54.98712"	1557.10	GCP
1128_2018_CA	33°44'12.97308"	-116°49'45.14586"	576.37	GCP
1129_2018_CA	35°16'40.24611"	-117°32'38.45205"	836.78	GCP
1131_2018_CA	34°59'49.80394"	-117°36'24.10301"	734.48	GCP
1132_2018_CA	35°22'16.30568"	-117°39'35.04607"	1014.32	GCP
1133_2018_CA	35°21'46.89173"	-117°37'00.69886"	1057.63	GCP
1135_2018_CA	35°00'02.20973"	-117°40'23.04431"	710.52	GCP
1136_2018_CA	35°00'04.82028"	-117°44'20.24505"	681.43	GCP
1137_2018_CA	35°00'15.00511"	-117°48'16.30777"	669.60	GCP

Point	Latitude (Local)	Longitude (Local)	Ellipsoid Height (Local)	Code
1138_2018_CA	34°26'42.05959"	-118°55'39.89878"	144.87	GCP
1139_2018_CA	35°00'33.24008"	-117°52'14.00429"	673.86	GCP
1140_2018_CA	35°00'47.48669"	-117°55'39.34900"	703.12	GCP
1141_2018_CA	35°01'03.34352"	-117°59'29.63881"	773.59	GCP
1142_2018_CA	35°01'31.37133"	-118°03'32.45957"	745.44	GCP
1143_2018_CA	34°23'35.12133"	-118°59'57.14065"	213.14	GCP
1144_2018_CA	35°05'25.03819"	-118°07'32.69366"	822.29	GCP
1145_2018_CA	34°59'48.92812"	-118°11'24.42132"	815.57	GCP
1146_2018_CA	34°40'33.02429"	-118°58'42.19490"	2013.85	GCP
1147_2018_CA	34°57'03.38649"	-118°15'18.76609"	843.65	GCP
1148_2018_CA	34°53'33.26170"	-118°19'11.47589"	779.98	GCP
1149_2018_CA	34°55'11.56330"	-118°23'09.16803"	924.20	GCP
1150_2018_CA	34°52'10.03470"	-118°27'02.34044"	851.43	GCP
1151_2018_CA	33°44'59.91868"	-116°42'52.58654"	1632.39	GCP
1152_2018_CA	34°51'27.52877"	-118°30'57.47696"	914.41	GCP
1153_2018_CA	34°50'50.20369"	-118°34'53.02807"	950.40	GCP
1154_2018_CA	33°47'39.57063"	-116°44'35.20850"	1634.23	GCP
1155_2018_CA	34°50'50.62044"	-118°38'48.03074"	948.68	GCP
1156_2018_CA	34°50'25.27912"	-118°43'08.88075"	978.98	GCP
1157_2018_CA	34°15'23.48409"	-117°38'17.03129"	1660.15	GCP
1158_2018_CA	34°48'38.99531"	-118°46'37.77323"	1094.79	GCP
1159_2018_CA	33°46'15.27736"	-116°43'38.13946"	1995.16	GCP
1160_2018_CA	35°08'49.43824"	-118°18'38.35740"	1210.81	GCP
1161_2018_CA	35°07'00.53841"	-118°19'26.54338"	1172.37	GCP
1162_2018_CA	35°04'15.94723"	-118°20'36.97034"	1335.91	GCP
1163_2018_CA	35°01'41.03985"	-118°21'08.98318"	1209.18	GCP
1164_2018_CA	35°10'36.59616"	-118°20'14.11321"	1255.08	GCP
1165_2018_CA	35°26'14.20345"	-118°10'16.68965"	1550.35	GCP
1166_2018_CA	35°27'41.46290"	-117°49'22.89496"	1067.59	GCP
1167-2018-CA	35°26'23.92135"	-117°45'20.50917"	788.05	GCP
1168_2018_CA	35°24'38.47082"	-117°35'39.80751"	915.13	GCP
1169_2018_CA	35°26'13.41976"	-117°50'21.07196"	1159.20	GCP
1170_2018_CA	35°10'52.14763"	-118°21'12.07929"	1346.72	GCP
1171_2018_CA	34°58'24.85717"	-118°29'30.74137"	1327.14	GCP
1172_2018_CA	35°01'20.49416"	-118°27'33.59539"	1780.55	GCP

Point	Latitude (Local)	Longitude (Local)	Ellipsoid Height (Local)	Code
1173_2018_CA	35°03'17.21780"	-118°23'38.73163"	1497.57	GCP
1174_2018_CA	34°56'21.67414"	-118°29'44.38932"	1072.15	GCP
1175_2018_CA	35°22'49.44069"	-118°17'23.41373"	1796.04	GCP
1176_2018_CA	35°24'35.96901"	-118°20'28.07324"	2119.45	GCP
1177_2018_CA	35°27'25.88178"	-118°16'10.33442"	1883.75	GCP
1178_2018_CA	34°05'07.24778"	-116°54'21.88103"	1706.75	GCP
1179_2018_CA	35°29'56.28962"	-118°08'26.24541"	1515.73	GCP
1180_2018_CA	35°22'52.36365"	-118°10'33.04612"	1346.73	GCP
1181_2018_CA	34°05'19.81161"	-116°55'29.39852"	1561.06	GCP
1182_2018_CA	34°05'39.50681"	-116°55'45.28551"	1604.00	GCP
1183_2018_CA	35°19'42.89471"	-118°11'44.89094"	1181.99	GCP
1184_2018_CA	35°16'31.58741"	-118°11'04.21948"	1149.91	GCP
1185_2018_CA	34°09'01.32797"	-116°51'16.38006"	2330.53	GCP
1186_2018_CA	35°13'38.12307"	-118°11'05.71014"	1360.23	GCP
1187_2018_CA	34°07'55.22604"	-116°45'49.09344"	2504.29	GCP
1188_2018_CA	35°10'04.23390"	-118°18'54.51732"	1317.86	GCP
1189_2018_CA	35°09'44.66228"	-118°13'13.26216"	1841.87	GCP
1190_2018_CA	33°27'46.21446"	-117°42'33.26457"	41.55	GCP
1191_2018_CA	33°33'05.37769"	-117°46'35.06590"	-14.93	GCP
1192_2018_CA	34°14'42.82031"	-117°26'37.72152"	693.31	GCP
1193_2018_CA	33°35'58.19255"	-117°44'44.20347"	79.53	GCP
1194_2018_CA	33°38'25.00966"	-117°42'08.93734"	82.12	GCP
1195_2018_CA	33°45'52.52471"	-116°41'09.23559"	1945.56	GCP
1196_2018_CA	33°41'01.08067"	-117°39'51.35101"	217.32	GCP
1197_2018_CA	33°42'29.25557"	-117°38'11.08397"	353.51	GCP
1198_2018_CA	33°35'40.25012"	-117°28'49.31099"	315.86	GCP
1199_2018_CA	33°37'20.28072"	-117°25'05.78097"	655.51	GCP
1200_2018_CA	34°01'27.87232"	-117°06'00.73167"	597.23	GCP
1201_2018_CA	34°01'18.73986"	-117°08'28.33393"	587.19	GCP
1202_2018_CA	34°00'49.19367"	-117°10'49.57365"	410.06	GCP
1203_2018_CA	33°31'21.95519"	-117°28'42.32431"	607.49	GCP
1204_2018_CA	33°42'29.95673"	-117°30'11.41061"	1138.81	GCP
1205_2018_CA	33°44'46.48819"	-117°37'43.12279"	355.84	GCP
1206_2018_CA	33°51'15.70220"	-117°43'25.86211"	224.31	GCP
1207_2018_CA	33°52'44.64755"	-117°41'45.36950"	100.65	GCP

Point	Latitude (Local)	Longitude (Local)	Ellipsoid Height (Local)	Code
1208_2018_CA	33°43'28.77554"	-117°27'57.30228"	654.87	GCP
1209_2018_CA	33°40'00.35465"	-117°22'56.08025"	355.01	GCP
1210_2018_CA	33°41'33.99186"	-117°19'49.63325"	364.39	GCP
1211_2018_CA	33°42'32.00394"	-117°18'12.52786"	454.32	GCP
1212_2018_CA	33°46'55.52199"	-117°20'53.92853"	639.91	GCP
1213_2018_CA	33°48'02.86785"	-117°18'49.29976"	662.37	GCP
1214_2018_CA	33°52'42.69197"	-117°21'38.39358"	436.27	GCP
1215_2018_CA	33°57'41.13767"	-117°02'29.56430"	680.63	GCP
1216_2018_CA	33°54'54.93547"	-117°18'44.13427"	466.84	GCP
1217_2018_CA	33°56'52.74385"	-117°16'15.87318"	521.19	GCP
1218_2018_CA	33°57'59.36474"	-117°14'01.07396"	554.39	GCP
1219_2018_CA	34°00'13.40677"	-117°11'08.97656"	488.85	GCP
1220_2018_CA	33°54'24.43633"	-116°56'34.24661"	749.57	GCP
1221_2018_CA	34°06'25.65400"	-117°14'55.35982"	299.73	GCP
1222_2018_CA	34°07'51.62781"	-117°13'09.92141"	345.49	GCP
1223_2018_CA	34°08'01.66350"	-117°09'34.61950"	576.63	GCP
1224_2018_CA	34°00'57.41500"	-116°57'53.81977"	1162.08	GCP
1225_2018_CA	34°02'58.08771"	-116°57'16.77521"	1374.00	GCP
1226_2018_CA	34°04'56.11856"	-116°53'36.48166"	1798.76	GCP
1227_2018_CA	34°05'55.63717"	-116°58'47.13741"	1205.54	GCP
1228_2018_CA	34°08'09.91176"	-116°46'39.54945"	2481.11	GCP
1229_2018_CA	34°09'55.12695"	-116°48'39.55229"	1952.22	GCP
1230_2018_CA	34°12'40.76434"	-116°44'34.60773"	2394.65	GCP
1231_2018_CA	34°11'12.99974"	-116°53'01.67517"	1782.06	GCP
1232_2018_CA	34°12'27.61078"	-116°52'10.83496"	2379.11	GCP
1233_2018_CA	33°42'33.87903"	-117°06'44.96666"	416.14	GCP
1234_2018_CA	34°14'25.66331"	-116°57'00.19967"	2027.90	GCP
1235_2018_CA	33°44'09.78135"	-117°05'14.20464"	452.06	GCP
1236_2018_CA	34°17'27.29358"	-116°53'07.35834"	2199.08	GCP
1237_2018_CA	34°18'50.80179"	-116°54'06.27722"	2255.00	GCP
1238_2018_CA	34°10'34.60966"	-116°56'48.71728"	1457.54	GCP
1239_2018_CA	34°09'54.70210"	-117°00'22.45363"	1190.83	GCP
1240_2018_CA	34°09'15.86697"	-117°03'06.11530"	1076.63	GCP
1241_2018_CA	34°08'48.66686"	-117°06'17.55217"	1188.83	GCP
1242_2018_CA	34°13'44.40504"	-117°08'03.59742"	1854.46	GCP

Point	Latitude (Local)	Longitude (Local)	Ellipsoid Height (Local)	Code
1243_2018_CA	34°14'06.91530"	-117°17'21.65221"	1442.49	GCP
1244_2018_CA	34°09'27.26674"	-117°34'52.99426"	569.84	GCP
1245_2018_CA	34°10'42.93062"	-117°34'22.65760"	848.40	GCP
1246_2018_CA	34°05'36.00822"	-117°27'31.98488"	337.81	GCP
1247_2018_CA	34°09'05.04629"	-117°42'03.52942"	553.33	GCP
1248_2018_CA	34°24'45.56510"	-118°54'53.19088"	159.27	GCP
1249_2018_CA	33°47'46.90316"	-116°52'45.98792"	568.73	GCP
1250_2018_CA	33°56'15.26346"	-116°59'34.85717"	745.68	GCP
1251_2018_CA	34°00'55.89544"	-117°16'01.66906"	391.06	GCP
1252_2018_CA	34°02'21.30759"	-117°14'16.87055"	364.06	GCP
1253_2018_CA	34°22'28.81563"	-119°02'06.43013"	81.85	GCP
1256_2018_CA	34°29'59.96940"	-119°06'53.86640"	1646.78	GCP
1301_2018_CA	35°00'38.69694"	-117°49'38.92359"	666.38	GCP
1302_2018_CA	34°53'52.32919"	-117°51'33.18745"	661.08	GCP
1309_2018_CA	34°57'34.89210"	-117°57'57.87641"	698.09	GCP
1310_2018_CA	34°59'59.95988"	-117°52'58.19583"	675.19	GCP
1311_2018_CA	34°57'51.48833"	-117°54'57.45817"	745.98	GCP
1312_2018_CA	34°58'47.46503"	-117°51'59.92639"	660.98	GCP
1313_2018_CA	34°56'01.88902"	-117°52'47.23091"	661.82	GCP
1314_2018_CA	34°52'40.12364"	-117°52'26.93511"	663.58	GCP
1315_2018_CA	34°51'47.96920"	-117°55'01.78591"	668.32	GCP
1316_2018_CA	34°55'00.57123"	-117°54'58.97829"	676.53	GCP
1317_2018_CA	34°57'18.37080"	-117°44'00.56155"	680.65	GCP
1318_2018_CA	34°57'33.36359"	-117°42'09.84904"	728.14	GCP
1319_2018_CA	34°58'10.63452"	-117°39'14.43466"	752.46	GCP
1320_2018_CA	34°56'16.91799"	-117°36'46.46615"	803.77	GCP
1323_2018_CA	34°52'26.07187"	-117°37'17.45404"	879.67	GCP
1324_2018_CA	34°52'58.59577"	-117°41'00.48829"	825.57	GCP
1325_2018_CA	34°54'46.88313"	-117°44'03.08216"	736.51	GCP
1325A_2018_CA	34°54'47.28366"	-117°44'04.70895"	735.75	GCP
1326_2018_CA	34°55'53.23175"	-117°41'57.02058"	902.29	GCP
1327_2018_CA	34°55'51.66674"	-117°38'59.21009"	856.92	GCP
1328_2018_CA	34°54'12.71996"	-117°40'02.74619"	860.39	GCP
1329_2018_CA	34°55'51.66671"	-117°38'59.21018"	856.91	GCP

NVA Check Points

Point	Latitude (Local)	Longitude (Local)	Ellipsoid Height (Local)	Code
2001_2018_CA	34°29'41.84916"	-119°08'28.02825"	1570.85	NVA
2002_2018_CA	34°40'31.48711"	-118°58'44.58032"	2014.69	NVA
2003_2018_CA	34°32'04.16871"	-119°13'51.84347"	1026.43	NVA
2004_2018_CA	34°38'47.13087"	-118°57'35.46615"	2021.50	NVA
2005_2018_CA	34°30'18.09325"	-119°22'29.16516"	428.47	NVA
2006_2018_CA	34°27'30.70299"	-119°17'24.93038"	187.60	NVA
2007_2018_CA	34°26'45.55287"	-119°12'14.99250"	231.08	NVA
2008_2018_CA	34°22'20.83701"	-119°18'29.26194"	54.15	NVA
2009_2018_CA	34°29'11.13902"	-118°53'59.86374"	647.23	NVA
2010_2018_CA	34°15'08.40515"	-119°13'00.68450"	1.93	NVA
2011_2018_CA	34°15'13.78900"	-119°12'50.45552"	3.93	NVA
2012_2018_CA	34°10'17.59356"	-119°09'21.26619"	-24.88	NVA
2013_2018_CA	34°10'16.79323"	-119°09'20.49044"	-25.02	NVA
2014_2018_CA	34°06'55.33997"	-119°05'14.95684"	-33.31	NVA
2015_2018_CA	34°10'49.22342"	-119°02'39.33346"	-14.70	NVA
2016_2018_CA	34°10'19.78523"	-118°54'51.72666"	215.53	NVA
2017_2018_CA	34°24'05.72352"	-119°04'49.69911"	177.15	NVA
2018_2018_CA	34°11'06.00349"	-118°46'55.23843"	337.15	NVA
2019_2018_CA	34°29'15.34741"	-118°45'39.86825"	304.65	NVA
2020_2018_CA	34°15'52.27547"	-118°51'38.98577"	161.38	NVA
2021_2018_CA	34°17'56.72821"	-118°41'28.53159"	319.27	NVA
2022_2018_CA	34°19'24.43888"	-118°58'42.08177"	247.20	NVA
2023_2018_CA	34°22'53.65487"	-118°52'40.86385"	114.08	NVA
2025_2018_CA	34°19'48.40277"	-119°09'09.51033"	79.81	NVA
2026_2018_CA	34°27'43.54001"	-118°45'20.01871"	329.40	NVA
2027_2018_CA	34°43'54.20280"	-119°05'53.20980"	1530.69	NVA
2028_2018_CA	34°41'41.27096"	-119°17'26.91701"	1145.71	NVA
2029_2018_CA	34°42'48.80556"	-119°24'25.36947"	1063.17	NVA
2030_2018_CA	34°44'53.90881"	-119°24'30.83774"	973.94	NVA
2031_2018_CA	34°47'09.88094"	-119°26'26.08947"	918.78	NVA
2032_2018_CA	34°50'38.80976"	-119°28'38.66570"	823.65	NVA
2033_2018_CA	34°56'09.44711"	-119°30'45.67373"	714.44	NVA
2034_2018_CA	34°53'52.15853"	-119°30'19.73652"	760.81	NVA

Point	Latitude (Local)	Longitude (Local)	Ellipsoid Height (Local)	Code
2035_2018_CA	34°38'20.65414"	-119°06'01.21230"	1433.13	NVA
2036_2018_CA	34°49'09.84640"	-119°27'42.86938"	874.73	NVA
2037_2018_CA	34°53'58.95756"	-119°39'27.80856"	729.56	NVA
2038_2018_CA	34°38'09.31542"	-119°18'30.80752"	2145.31	NVA
2039_2018_CA	34°57'26.83702"	-119°42'34.39503"	592.57	NVA
2040_2018_CA	34°58'36.68943"	-119°53'23.90353"	662.04	NVA
2041_2018_CA	34°57'02.07536"	-119°49'00.21554"	721.66	NVA
2042_2018_CA	35°00'05.69042"	-119°50'04.39120"	523.05	NVA
2043_2018_CA	35°02'19.25097"	-119°53'05.47386"	470.31	NVA
2044_2018_CA	35°05'02.15693"	-120°01'16.28972"	395.97	NVA
2045_2018_CA	35°11'00.73139"	-120°13'47.82540"	677.84	NVA
2046_2018_CA	35°02'45.60904"	-120°18'05.21490"	165.41	NVA
2047_2018_CA	35°04'15.69585"	-120°16'51.36054"	185.94	NVA
2048_2018_CA	35°03'16.34336"	-120°10'46.40882"	265.55	NVA
2049_2018_CA	35°08'20.63171"	-120°08'16.53934"	379.45	NVA
2050_2018_CA	34°58'56.34996"	-120°11'43.00513"	435.11	NVA
2051_2018_CA	34°51'39.50395"	-119°12'34.79716"	1826.16	NVA
2052_2018_CA	34°53'34.47166"	-119°49'05.87011"	1632.02	NVA
2053_2018_CA	34°54'09.67102"	-119°53'01.13704"	1607.50	NVA
2054_2018_CA	34°55'59.66228"	-119°56'10.40831"	1473.43	NVA
2055_2018_CA	34°59'01.70976"	-119°59'31.55858"	1465.65	NVA
2056_2018_CA	34°59'02.38911"	-119°46'57.86213"	545.26	NVA
2057_2018_CA	34°56'07.34109"	-119°43'33.48322"	651.15	NVA
2058_2018_CA	35°01'19.16400"	-120°01'51.27144"	1233.35	NVA
2059_2018_CA	34°03'45.23428"	-118°59'10.05969"	-26.89	NVA
2060_2018_CA	34°49'07.79834"	-118°47'48.91315"	1143.18	NVA
2061_2018_CA	34°49'44.65910"	-118°40'52.42929"	919.17	NVA
2062_2018_CA	35°03'30.38674"	-117°57'05.17081"	802.02	NVA
2063_2018_CA	34°49'31.89308"	-118°35'56.51458"	878.57	NVA
2064_2018_CA	34°49'57.98739"	-118°32'09.24692"	859.29	NVA
2065_2018_CA	34°49'58.83924"	-118°29'03.98522"	825.77	NVA
2066_2018_CA	34°50'01.61167"	-118°24'18.11536"	767.39	NVA
2067_2018_CA	34°50'04.81380"	-118°17'27.05163"	709.55	NVA
2068_2018_CA	34°52'13.71088"	-118°09'03.16386"	684.22	NVA
2069_2018_CA	34°52'13.70028"	-118°09'03.87677"	683.99	NVA

Point	Latitude (Local)	Longitude (Local)	Ellipsoid Height (Local)	Code
2070_2018_CA	35°03'20.34380"	-118°10'08.86704"	812.81	NVA
2071_2018_CA	35°03'20.81155"	-118°10'08.99594"	812.94	NVA
2074_2018_CA	35°05'13.84699"	-117°40'15.24665"	782.23	NVA
2077_2018_CA	34°47'27.15500"	-117°39'23.31644"	850.91	NVA
2078_2018_CA	35°23'16.73409"	-117°45'18.86936"	661.36	NVA
2079_2018_CA	34°44'53.16159"	-117°36'53.12426"	903.70	NVA
2080_2018_CA	34°58'18.72562"	-118°04'25.53047"	729.71	NVA
2081_2018_CA	34°58'40.21489"	-118°08'26.95978"	752.36	NVA
2082_2018_CA	34°58'33.65801"	-118°18'25.51975"	930.44	NVA
2083_2018_CA	35°00'06.58333"	-118°19'39.90251"	1045.98	NVA
2084_2018_CA	34°57'02.18346"	-118°22'12.92409"	1054.14	NVA
2085_2018_CA	35°13'08.17738"	-117°36'16.65020"	837.53	NVA
2086_2018_CA	34°54'24.42384"	-118°28'26.37246"	959.81	NVA
2087_2018_CA	34°53'24.03005"	-118°30'54.08713"	1053.13	NVA
2088_2018_CA	34°52'35.80427"	-118°36'08.37522"	1097.07	NVA
2089_2018_CA	34°55'51.76917"	-118°26'36.28369"	1046.65	NVA
2089A_2018_CA	34°54'17.34479"	-118°26'09.58820"	924.75	NVA
2090_2018_CA	35°22'40.09728"	-118°13'00.86692"	1174.44	NVA
2091_2018_CA	35°09'12.68854"	-118°19'13.28830"	1224.16	NVA
2092_2018_CA	35°10'12.36039"	-118°22'39.99494"	1298.74	NVA
2093_2018_CA	35°08'17.22952"	-118°12'02.58775"	1091.52	NVA
2094_2018_CA	35°04'49.93926"	-118°23'42.14830"	1305.88	NVA
2095_2018_CA	35°03'59.97421"	-118°15'21.97773"	1055.27	NVA
2098_2018_CA	35°05'50.64931"	-117°47'35.53464"	713.93	NVA
2099_2018_CA	35°10'12.50911"	-117°47'27.54624"	788.87	NVA
2100_2018_CA	35°13'20.85139"	-117°46'26.18264"	875.83	NVA
2101_2018_CA	35°17'15.76928"	-117°45'19.29816"	1069.52	NVA
2102_2018_CA	35°20'18.02094"	-117°55'27.19154"	558.50	NVA
2103_2018_CA	35°25'18.99245"	-117°59'39.35906"	977.56	NVA
2104_2018_CA	35°18'46.87178"	-118°01'46.00620"	694.68	NVA
2105_2018_CA	35°13'57.06434"	-118°02'49.35086"	684.11	NVA
2106_2018_CA	35°09'14.84209"	-118°06'01.66509"	777.57	NVA
2107_2018_CA	34°30'48.75376"	-117°38'36.00490"	974.56	NVA
2108_2018_CA	34°33'29.59592"	-117°38'34.82493"	907.81	NVA
2109_2018_CA	34°36'08.15312"	-117°39'24.99881"	858.35	NVA

Point	Latitude (Local)	Longitude (Local)	Ellipsoid Height (Local)	Code
2110_2018_CA	34°28'37.62001"	-117°38'03.95096"	1058.56	NVA
2111_2018_CA	34°27'44.46385"	-117°39'06.71030"	1096.42	NVA
2112_2018_CA	34°27'19.38464"	-117°37'10.36764"	1142.32	NVA
2113_2018_CA	34°24'09.63542"	-117°38'06.87394"	1484.84	NVA
2114_2018_CA	34°23'47.95936"	-117°38'26.16303"	1574.14	NVA
2115_2018_CA	34°20'17.74792"	-117°35'41.42972"	1731.52	NVA
2116_2018_CA	34°17'42.58048"	-117°36'03.56905"	1814.31	NVA
2117_2018_CA	34°18'54.86161"	-117°29'42.23250"	972.12	NVA
2118_2018_CA	34°16'30.98921"	-117°28'16.77606"	838.03	NVA
2119_2018_CA	33°53'01.62786"	-117°19'57.47250"	466.77	NVA
2120_2018_CA	33°57'08.36192"	-117°33'24.66178"	145.76	NVA
2121_2018_CA	33°57'07.75052"	-117°33'24.65981"	145.79	NVA
2122_2018_CA	33°53'01.04413"	-117°19'57.48205"	466.62	NVA
2123_2018_CA	34°16'56.80285"	-117°32'11.45656"	1266.33	NVA
2124_2018_CA	34°11'44.43514"	-117°40'39.69943"	864.74	NVA
2125_2018_CA	34°09'54.37296"	-117°37'44.41055"	669.01	NVA
2126_2018_CA	34°12'05.50175"	-117°26'57.09006"	652.67	NVA
2127_2018_CA	34°08'37.01754"	-117°29'47.66056"	413.84	NVA
2128_2018_CA	34°08'29.30679"	-117°22'38.10287"	412.22	NVA
2129_2018_CA	34°10'59.43889"	-117°19'01.45633"	417.59	NVA
2130_2018_CA	34°14'40.36113"	-117°01'31.69231"	2144.16	NVA
2131_2018_CA	34°14'01.66455"	-117°11'46.04269"	1683.66	NVA
2132_2018_CA	34°10'15.09399"	-116°50'29.84662"	1949.27	NVA
2133_2018_CA	34°04'37.31370"	-117°11'23.91252"	371.32	NVA
2134_2018_CA	34°09'49.35039"	-117°10'57.24631"	602.57	NVA
2135_2018_CA	34°14'33.08655"	-116°53'03.09458"	2050.83	NVA
2136_2018_CA	34°13'34.56216"	-116°46'01.11311"	2251.57	NVA
2137_2018_CA	34°12'31.76298"	-116°57'07.73721"	2378.29	NVA
2138_2018_CA	34°08'19.03109"	-116°59'07.83585"	1672.12	NVA
2139_2018_CA	33°52'01.06910"	-117°02'03.19718"	433.48	NVA
2140_2018_CA	34°04'25.97526"	-117°04'20.19114"	687.03	NVA
2141_2018_CA	34°00'28.04314"	-117°02'10.40389"	760.55	NVA
2142_2018_CA	33°45'15.59136"	-118°05'27.55178"	-32.61	NVA
2143_2018_CA	33°49'21.40221"	-118°02'20.98890"	-23.60	NVA
2143A_2018_CA	33°47'00.43547"	-118°04'55.43942"	-31.65	NVA

Point	Latitude (Local)	Longitude (Local)	Ellipsoid Height (Local)	Code
2144_2018_CA	33°51'38.82846"	-117°59'03.97579"	-8.54	NVA
2145_2018_CA	33°52'07.99457"	-117°55'01.56159"	14.90	NVA
2146_2018_CA	33°54'25.20062"	-117°57'49.19531"	107.10	NVA
2147_2018_CA	33°55'15.81988"	-117°53'33.88657"	72.26	NVA
2148_2018_CA	33°55'46.53828"	-117°48'38.68069"	272.69	NVA
2149_2018_CA	33°53'12.86068"	-117°49'02.25858"	72.88	NVA
2150_2018_CA	33°40'28.54773"	-117°57'08.10642"	-30.98	NVA
2151_2018_CA	33°44'09.12136"	-117°54'06.34480"	-14.46	NVA
2152_2018_CA	33°47'46.06371"	-117°51'30.04644"	19.40	NVA
2153_2018_CA	33°47'49.16144"	-117°45'16.80333"	138.17	NVA
2154_2018_CA	33°33'17.83121"	-117°37'37.64444"	145.19	NVA
2155_2018_CA	33°29'18.09157"	-117°39'33.78090"	29.82	NVA
2156_2018_CA	33°38'49.42965"	-117°34'29.42381"	315.64	NVA
2157_2018_CA	33°37'01.76306"	-117°21'21.95844"	897.98	NVA
2158_2018_CA	33°49'43.05539"	-117°34'24.65866"	375.49	NVA
2159_2018_CA	33°55'52.86492"	-117°39'43.69317"	144.23	NVA
2160_2018_CA	34°05'03.55445"	-117°43'00.05294"	288.98	NVA
2161_2018_CA	34°04'40.47742"	-117°35'53.06182"	278.42	NVA
2161A_2018_CA	34°04'37.56274"	-117°35'52.38433"	277.86	NVA
2162_2018_CA	34°02'18.04914"	-117°28'58.55616"	251.13	NVA
2163_2018_CA	34°03'24.66703"	-117°22'52.47374"	274.10	NVA
2163A_2018_CA	34°03'24.67502"	-117°22'53.98178"	274.40	NVA
2164_2018_CA	33°57'47.93360"	-117°25'26.61271"	200.69	NVA
2165_2018_CA	33°51'29.81269"	-117°25'57.29200"	369.97	NVA
2166_2018_CA	33°39'07.13794"	-116°40'49.06415"	1401.46	NVA
2167_2018_CA	33°41'36.84255"	-116°50'59.45265"	650.38	NVA
2168_2018_CA	33°43'13.14000"	-116°57'20.26947"	526.93	NVA
2169_2018_CA	33°48'48.69909"	-117°08'12.35501"	416.31	NVA
2170_2018_CA	33°46'47.33283"	-117°14'37.43411"	450.48	NVA
2171_2018_CA	33°44'32.68866"	-117°25'47.95375"	330.27	NVA
2172_2018_CA	33°40'46.83117"	-117°13'47.61179"	392.69	NVA
2173_2018_CA	34°41'08.79176"	-120°35'17.41072"	-30.77	NVA
2174A_2018_CA	34°43'22.55712"	-119°55'14.20621"	959.80	NVA
2175_2018_CA	34°35'34.91461"	-120°31'50.11144"	177.26	NVA
2176_2018_CA	34°36'22.14823"	-119°21'38.16776"	1249.13	NVA

Point	Latitude (Local)	Longitude (Local)	Ellipsoid Height (Local)	Code
2177_2018_CA	34°42'45.78677"	-120°29'21.84819"	37.09	NVA
2178_2018_CA	34°41'55.75166"	-120°23'31.97202"	110.68	NVA
2179A_2018_CA	34°38'14.40568"	-120°28'05.05386"	-8.20	NVA
2179B_2018_CA	34°38'14.38352"	-120°28'02.44700"	-7.84	NVA
2180_2018_CA	34°26'24.32740"	-119°44'56.99228"	22.55	NVA
2181_2018_CA	34°26'24.32131"	-119°44'57.55688"	22.96	NVA
2182_2018_CA	34°34'38.87867"	-120°22'36.24988"	97.02	NVA
2183_2018_CA	34°30'16.23584"	-120°29'54.90719"	-7.14	NVA
2184_2018_CA	34°35'34.33969"	-120°28'08.04242"	89.01	NVA
2185_2018_CA	34°30'34.52557"	-120°13'35.93750"	68.34	NVA
2186_2018_CA	34°27'58.88197"	-120°04'07.72138"	-24.10	NVA
2187_2018_CA	34°27'24.12531"	-119°58'23.00569"	9.20	NVA
2188_2018_CA	34°26'12.93639"	-119°32'51.05008"	218.98	NVA
2189_2018_CA	34°28'34.25757"	-119°35'42.55598"	889.63	NVA
2190_2018_CA	34°41'20.92537"	-119°54'30.87979"	666.09	NVA
2191_2018_CA	34°44'09.78284"	-120°00'23.99784"	934.26	NVA
2192_2018_CA	34°32'35.14883"	-119°48'37.48165"	245.65	NVA
2193_2018_CA	34°36'51.35349"	-120°00'05.03599"	177.93	NVA
2194A_2018_CA	34°41'15.77348"	-119°54'46.83201"	696.64	NVA
2195_2018_CA	34°42'28.43110"	-120°06'43.66910"	273.86	NVA
2196_2018_CA	34°39'52.45708"	-120°10'34.50381"	144.70	NVA
2197_2018_CA	34°34'40.53002"	-120°08'56.96576"	94.58	NVA
2198_2018_CA	34°39'39.93669"	-120°17'18.96289"	148.58	NVA
2199_2018_CA	34°30'04.69498"	-119°51'27.72168"	859.16	NVA
2200_2018_CA	34°31'59.92203"	-120°01'30.15117"	983.74	NVA
2201_2018_CA	35°25'49.20614"	-117°40'46.21175"	847.72	NVA
2202_2018_CA	35°08'21.72045"	-117°56'26.23298"	677.56	NVA
2203_2018_CA	34°55'25.89150"	-120°17'25.66508"	87.00	NVA
2204_2018_CA	33°30'51.86390"	-117°29'34.56068"	441.88	NVA
2205_2018_CA	33°46'31.63363"	-116°44'16.69994"	1798.85	NVA
2206_2018_CA	34°24'34.00072"	-119°28'50.63365"	33.12	NVA
2207_2018_CA	34°29'22.18655"	-119°39'45.50900"	1072.26	NVA

VVA Check Points

Point	Latitude (Local)	Longitude (Local)	Ellipsoid Height (Local)	Code
3001_2018_CA	34°56'28.00450"	-119°39'10.46282"	641.93	VVA
3002_2018_CA	34°56'09.10608"	-119°30'44.52950"	715.27	VVA
3003_2018_CA	34°50'39.77889"	-119°28'40.62797"	822.65	VVA
3004_2018_CA	34°10'18.59034"	-119°08'34.36611"	-24.66	VVA
3005_2018_CA	34°10'48.91058"	-119°02'40.14924"	-16.37	VVA
3006_2018_CA	34°14'04.34396"	-119°06'26.99314"	-7.38	VVA
3007_2018_CA	34°18'54.66275"	-119°08'44.61341"	50.24	VVA
3008_2018_CA	34°53'52.98164"	-119°34'40.82250"	721.65	VVA
3009_2018_CA	34°55'55.92473"	-119°53'59.71097"	1317.38	VVA
3010_2018_CA	34°53'34.35529"	-119°49'04.65649"	1631.72	VVA
3011_2018_CA	34°58'53.79865"	-120°11'43.97846"	441.06	VVA
3012_2018_CA	34°48'47.09350"	-119°07'38.54314"	2513.31	VVA
3013_2018_CA	34°59'01.23898"	-119°46'56.14809"	541.96	VVA
3015_2018_CA	34°39'01.61254"	-119°22'53.80055"	1563.30	VVA
3016_2018_CA	34°31'03.71518"	-119°11'12.56609"	1513.55	VVA
3017_2018_CA	34°03'48.15210"	-118°59'05.48473"	-11.13	VVA
3018_2018_CA	35°06'37.12105"	-120°05'26.14907"	380.18	VVA
3019_2018_CA	35°04'24.28524"	-120°10'03.53131"	292.12	VVA
3020_2018_CA	35°01'26.04481"	-120°18'29.40978"	171.20	VVA
3021_2018_CA	35°01'19.57850"	-120°01'52.32257"	1232.83	VVA
3022_2018_CA	34°57'32.72020"	-119°42'43.75757"	589.29	VVA
3023_2018_CA	35°10'59.80992"	-120°13'45.11665"	672.68	VVA
3024_2018_CA	34°49'08.49456"	-119°27'42.00234"	875.16	VVA
3025_2018_CA	34°44'54.98667"	-119°24'28.43529"	975.58	VVA
3026_2018_CA	34°43'53.16351"	-119°05'54.91687"	1531.35	VVA
3027_2018_CA	34°41'40.59127"	-119°17'28.35734"	1145.36	VVA
3028_2018_CA	34°49'48.89916"	-119°12'08.89783"	2450.23	VVA
3029_2018_CA	34°40'30.65966"	-118°58'40.18421"	2013.82	VVA
3030_2018_CA	34°20'11.64248"	-118°54'03.46736"	359.70	VVA
3031_2018_CA	34°29'54.48275"	-118°53'39.65496"	746.61	VVA
3032_2018_CA	34°28'02.57315"	-118°45'42.81419"	309.81	VVA
3033_2018_CA	34°17'58.30003"	-118°41'28.76848"	314.55	VVA
3034_2018_CA	34°16'48.43586"	-118°48'10.70801"	178.44	VVA
3035A_2018_CA	34°12'23.94784"	-118°40'05.60470"	264.68	VVA
3036_2018_CA	34°09'50.88325"	-118°50'29.93689"	269.69	VVA

Point	Latitude (Local)	Longitude (Local)	Ellipsoid Height (Local)	Code
3037_2018_CA	34°30'17.42429"	-119°22'26.64020"	428.42	VVA
3038_2018_CA	34°38'22.57875"	-119°06'01.63441"	1433.88	VVA
3039_2018_CA	34°35'42.13810"	-119°18'07.75196"	1154.43	VVA
3040_2018_CA	34°25'45.66429"	-119°19'37.44112"	180.36	VVA
3041_2018_CA	34°50'02.22958"	-119°19'45.23527"	1171.30	VVA
3042_2018_CA	34°23'17.64717"	-119°21'38.25382"	151.71	VVA
3043_2018_CA	34°53'33.49055"	-118°17'26.74812"	768.01	VVA
3044_2018_CA	34°49'34.47805"	-118°23'48.24351"	758.96	VVA
3045_2018_CA	34°49'03.94216"	-118°39'07.80704"	883.88	VVA
3047_2018_CA	34°49'05.18609"	-118°47'40.64034"	1139.01	VVA
3048_2018_CA	34°51'10.57967"	-118°41'33.43448"	997.09	VVA
3049_2018_CA	34°54'27.96116"	-118°37'17.77868"	1318.65	VVA
3050_2018_CA	34°54'24.86412"	-118°28'25.53618"	959.46	VVA
3051_2018_CA	34°53'23.30963"	-118°30'53.97113"	1053.67	VVA
3052_2018_CA	34°57'01.10560"	-118°22'13.94381"	1052.43	VVA
3053_2018_CA	34°58'33.64797"	-118°18'24.67309"	931.26	VVA
3054_2018_CA	35°04'03.36040"	-118°21'06.87095"	1309.74	VVA
3055_2018_CA	35°09'26.42238"	-118°19'19.96684"	1225.74	VVA
3056_2018_CA	35°09'45.81293"	-118°13'13.02235"	1837.91	VVA
3057_2018_CA	35°18'46.83180"	-118°01'44.85256"	698.13	VVA
3058_2018_CA	35°20'16.59609"	-117°55'28.68127"	557.60	VVA
3059_2018_CA	35°24'32.28967"	-118°08'29.29665"	1307.42	VVA
3060_2018_CA	35°26'23.68679"	-117°45'19.09530"	790.35	VVA
3061_2018_CA	35°17'16.44635"	-117°45'17.65384"	1071.47	VVA
3062_2018_CA	35°10'12.19754"	-117°47'25.63799"	789.12	VVA
3063_2018_CA	35°09'15.09825"	-118°05'59.35514"	776.67	VVA
3064_2018_CA	35°01'15.40402"	-118°01'33.95070"	774.03	VVA
3066_2018_CA	35°03'38.97457"	-117°47'32.46420"	694.23	VVA
3070_2018_CA	34°47'36.03015"	-117°38'03.59966"	886.47	VVA
3071_2018_CA	34°58'06.50213"	-118°04'26.98728"	728.41	VVA
3073_2018_CA	35°13'57.09947"	-118°02'48.31293"	683.43	VVA
3074_2018_CA	35°13'53.18965"	-117°36'28.19747"	848.70	VVA
3075_2018_CA	35°22'49.71648"	-118°17'16.16662"	1739.87	VVA
3076_2018_CA	34°10'43.31018"	-117°34'21.78586"	849.07	VVA
3077_2018_CA	34°12'05.17480"	-117°26'57.02641"	651.42	VVA

Point	Latitude (Local)	Longitude (Local)	Ellipsoid Height (Local)	Code
3078_2018_CA	34°10'22.52313"	-116°50'57.18817"	1991.85	VVA
3079_2018_CA	34°09'55.78050"	-116°48'41.74636"	1948.02	VVA
3080_2018_CA	34°11'33.04888"	-116°43'11.56254"	2548.15	VVA
3081_2018_CA	34°15'41.33562"	-116°50'04.22035"	2031.34	VVA
3082_2018_CA	34°14'00.86998"	-117°11'46.05472"	1683.73	VVA
3083_2018_CA	33°42'53.39431"	-117°29'46.28337"	1044.48	VVA
3084_2018_CA	33°59'24.02057"	-117°32'38.70422"	179.30	VVA
3085_2018_CA	33°56'30.96827"	-117°37'59.01033"	135.89	VVA
3086_2018_CA	33°40'16.16827"	-117°07'08.70049"	407.83	VVA
3087_2018_CA	33°45'04.55392"	-117°01'26.27814"	427.80	VVA
3088_2018_CA	33°51'56.52732"	-117°02'01.29934"	428.20	VVA
3089_2018_CA	33°44'50.50522"	-116°54'06.94459"	503.32	VVA
3089A_2018_CA	33°44'53.32762"	-116°54'52.46533"	494.81	VVA
3090_2018_CA	33°57'12.00101"	-116°58'57.64418"	766.83	VVA
3090A_2018_CA	33°57'12.50571"	-116°58'56.42337"	767.79	VVA
3091_2018_CA	33°50'26.91900"	-117°07'09.69683"	406.01	VVA
3092_2018_CA	33°45'00.42226"	-117°12'20.85651"	398.87	VVA
3093_2018_CA	33°53'39.91119"	-117°55'29.05478"	35.85	VVA
3094_2018_CA	34°00'44.66043"	-117°37'50.39146"	195.61	VVA
3095_2018_CA	34°08'37.93399"	-117°29'19.23653"	410.81	VVA
3096_2018_CA	33°40'18.11093"	-116°58'15.31591"	487.34	VVA
3097_2018_CA	33°40'46.23615"	-117°13'47.89179"	391.82	VVA
3098_2018_CA	33°39'15.46310"	-116°40'36.18095"	1372.46	VVA
3099_2018_CA	33°36'00.65395"	-117°27'38.14348"	361.53	VVA
3099A_2018_CA	33°36'02.05530"	-117°27'37.49718"	363.85	VVA
3100_2018_CA	33°30'51.70698"	-117°29'33.96440"	445.13	VVA
3101_2018_CA	33°55'51.36516"	-117°47'46.74941"	169.18	VVA
3102_2018_CA	34°12'58.27614"	-117°40'24.54786"	1071.67	VVA
3103_2018_CA	34°18'02.83551"	-117°35'06.24745"	1642.69	VVA
3104_2018_CA	34°11'00.03797"	-117°19'02.81188"	418.58	VVA
3105_2018_CA	34°09'49.91105"	-117°10'58.50330"	606.49	VVA
3106_2018_CA	33°49'36.88214"	-117°34'37.83028"	401.54	VVA
3107_2018_CA	33°38'02.73808"	-116°52'22.47929"	995.43	VVA
3108_2018_CA	33°42'53.94465"	-116°46'59.18943"	776.64	VVA
3109_2018_CA	33°45'52.11111"	-116°41'06.78440"	1954.98	VVA

Point	Latitude (Local)	Longitude (Local)	Ellipsoid Height (Local)	Code
3110_2018_CA	33°47'49.99483"	-116°45'27.62392"	1611.95	VVA
3111_2018_CA	33°47'48.19312"	-116°52'44.39921"	573.73	VVA
3112_2018_CA	33°51'29.67029"	-117°25'58.56306"	368.91	VVA
3113_2018_CA	33°56'55.92550"	-117°16'03.15070"	529.63	VVA
3114_2018_CA	34°00'59.92828"	-117°10'44.92867"	416.30	VVA
3115_2018_CA	33°45'52.43960"	-117°42'37.13053"	211.00	VVA
3116_2018_CA	33°48'04.15558"	-117°18'51.12172"	666.67	VVA
3117_2018_CA	33°34'44.91329"	-117°45'44.47513"	31.94	VVA
3119_2018_CA	34°04'17.63803"	-117°21'35.08449"	293.25	VVA
3119A_2018_CA	34°04'18.89029"	-117°21'35.81944"	293.23	VVA
3120_2018_CA	34°27'17.57945"	-117°37'10.39037"	1143.23	VVA
3121_2018_CA	34°31'41.84759"	-117°38'36.09809"	949.80	VVA
3122_2018_CA	34°36'08.25376"	-117°39'27.10789"	858.45	VVA
3123_2018_CA	34°40'11.68228"	-120°20'39.75119"	105.28	VVA
3124_2018_CA	34°39'00.35146"	-120°05'36.98873"	198.36	VVA
3125_2018_CA	34°40'07.20356"	-120°29'33.27501"	-14.90	VVA
3126_2018_CA	34°37'17.77922"	-120°22'30.39993"	23.71	VVA
3127_2018_CA	34°26'10.34680"	-119°32'36.44507"	316.42	VVA
3128_2018_CA	34°41'07.54788"	-120°35'16.80421"	-30.65	VVA
3129_2018_CA	34°40'23.56633"	-120°33'58.07394"	-27.85	VVA
3130_2018_CA	34°36'03.76045"	-120°07'26.26942"	116.47	VVA
3131_2018_CA	34°31'39.44829"	-120°23'23.30474"	280.15	VVA
3132_2018_CA	34°41'12.28272"	-119°54'52.42211"	698.83	VVA
3133_2018_CA	34°27'23.00856"	-119°45'35.23727"	67.35	VVA
3134_2018_CA	34°32'00.14478"	-120°01'30.91564"	982.25	VVA
3135_2018_CA	34°31'21.31830"	-120°16'44.33879"	259.42	VVA
3136_2018_CA	34°24'16.28844"	-119°29'47.16860"	-2.72	VVA
3137_2018_CA	34°29'01.27481"	-119°37'30.35674"	1016.49	VVA
3138_2018_CA	34°27'40.07337"	-120°00'07.16155"	-11.35	VVA
3139A_2018_CA	34°43'23.02429"	-119°55'14.47087"	959.23	VVA
3140_2018_CA	34°43'28.75388"	-119°57'00.94479"	1322.98	VVA
3141_2018_CA	34°32'24.07850"	-119°47'55.85858"	289.72	VVA
3142_2018_CA	34°30'08.75323"	-119°51'19.03071"	849.99	VVA
3143_2018_CA	34°32'41.76657"	-119°46'21.16398"	288.81	VVA
3144A_2018_CA	34°41'16.15996"	-119°54'47.17946"	697.28	VVA

Point	Latitude (Local)	Longitude (Local)	Ellipsoid Height (Local)	Code
3145_2018_CA	34°30'16.22547"	-120°29'55.80458"	-10.19	VVA
3146_2018_CA	35°02'15.13065"	-119°53'00.74047"	468.47	VVA
3147_2018_CA	33°39'45.67171"	-117°56'22.60979"	-12.82	VVA
3148_2018_CA	33°47'02.80670"	-118°04'55.41838"	-31.36	VVA
3148A_2018_CA	33°47'00.98614"	-118°04'55.41588"	-31.26	VVA
3149_2018_CA	34°19'44.05260"	-117°26'59.36347"	1027.27	VVA

Geodetic Control Points

Point	Latitude (Local)	Longitude (Local)	Ellipsoid Height (Local)	Code
1_2018_CA	34°55'50.58439"	-117°54'19.94870"	696.18	NVA
2_2018_CA	34°52'57.87023"	-117°41'01.63666"	825.56	NVA
3_2018_CA	34°56'40.30739"	-117°40'56.26124"	958.73	NVA
100_2018_CA	34°17'34.22281"	-118°50'26.47313"	148.69	NVA
101_2018_CA	34°12'09.17244"	-118°39'27.20365"	250.26	NVA
102_2018_CA	34°10'30.39179"	-118°51'45.12085"	221.86	NVA
103_2018_CA	34°13'47.62560"	-119°06'44.76463"	-10.57	NVA
104_2018_CA	34°04'15.01954"	-119°00'47.35732"	-31.41	NVA
105_2018_CA	34°11'48.06326"	-119°06'01.06772"	-21.78	NVA
106_2018_CA	34°17'18.39800"	-119°11'12.33647"	76.48	NVA
107_2018_CA	34°25'31.15690"	-119°17'56.93460"	133.59	NVA
108_2018_CA	34°23'13.14992"	-119°22'22.01239"	243.37	NVA
109_2018_CA	34°23'14.14601"	-119°29'47.69833"	-1.98	NVA
110_2018_CA	34°27'17.10176"	-119°46'03.43358"	74.53	NVA
111_2018_CA	34°27'37.80706"	-120°00'10.35868"	-10.52	NVA
112_2018_CA	34°31'27.65770"	-120°17'56.73102"	205.06	NVA
113_2018_CA	34°38'25.63231"	-120°26'12.42917"	5.63	NVA
114_2018_CA	34°38'30.72487"	-120°18'02.89015"	120.27	NVA
115_2018_CA	34°36'08.69551"	-120°07'18.69560"	120.69	NVA
116_2018_CA	34°44'03.87924"	-120°00'27.94345"	914.17	NVA
117_2018_CA	34°43'36.06560"	-119°55'07.95644"	917.73	NVA
118_2018_CA	34°32'38.12651"	-119°49'15.75066"	251.92	NVA
119_2018_CA	34°29'28.16455"	-119°41'25.25705"	1030.65	NVA

Point	Latitude (Local)	Longitude (Local)	Ellipsoid Height (Local)	Code
301_2018_CA	34°49'58.82113"	-118°32'13.98192"	862.07	NVA
304_2018_CA	35°22'40.61374"	-118°13'00.55830"	1174.74	NVA
900_2018_CA	34°23'50.71013"	-118°53'28.34448"	109.97	NVA
901_2018_CA	34°27'16.27837"	-119°46'01.90556"	74.81	NVA
902_2018_CA	34°31'06.24468"	-119°16'50.47604"	673.23	NVA
903_2018_CA	34°43'29.52779"	-118°51'52.79670"	1006.54	NVA
904A_2018_CA	34°54'41.06506"	-119°30'41.84341"	731.85	NVA
904_2018_CA	34°44'32.89902"	-119°05'04.22880"	1522.78	NVA
905_2018_CA	34°41'16.07824"	-119°21'27.92520"	1048.37	NVA
989_2018_CA	35°01'51.19954"	-117°44'20.87372"	693.38	NVA
991_2018_CA	34°47'33.04014"	-117°38'19.01267"	885.37	NVA
992_2018_CA	35°19'27.52172"	-117°37'07.06030"	1091.96	NVA
993_2018_CA	35°13'55.80275"	-117°40'32.92050"	850.39	NVA
994_2018_CA	34°28'53.54666"	-117°38'12.49930"	1046.29	NVA
995_2018_CA	35°20'15.92257"	-117°58'25.44319"	662.74	NVA
995A_2018_CA	34°14'40.85045"	-117°26'28.76042"	701.36	NVA
996_2018_CA	34°10'36.24794"	-117°40'37.43537"	777.49	NVA
997_2018_CA	35°01'19.02054"	-120°18'46.78211"	175.38	NVA
998_2018_CA	35°03'03.49607"	-119°54'21.74987"	473.83	NVA
999_2018_CA	34°56'09.91201"	-119°30'45.98330"	714.16	NVA

Section 3: Ground / Geodetic Control Photos

This section contains the station recovery information sheets and photographs regarding the ground control positions established for the project. The stations appear as they are ordered in the final coordinate listing of Section 2.

The data is assembled on the following pages.

WOOLPERT

GCP OBSERVATION LOG

Project Number	Project Name	Company	Field Operator
78654	So Cal Wildfire	Woolpert Inc.	EN/ZJH/KMF

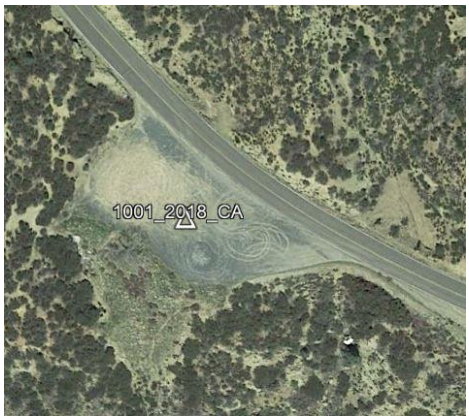
Coordinate System	Hor. Datum	Ver. Datum	Zone	Geoid
NAD 1983 (Conus)	Albers Equal Area	NAVD88	Albers Equal Area	GEOID12B (Conus)

Station ID	Northing (m)	Easting (m)	Elevation (m)
1001_2018_CA	1542701.964	-2104093.089	1286.377

Point Type	Latitude (Global)	Longitude (Global)	Ellipsoid Height (m)
LiDAR Control	N34°36'23.09417"	W119°21'41.20693"	1253.700

Location Photo

NORTH



1001_2018_CA, 1, 20180809

1001_2018_CA, 3S, 20180809

WOOLPERT

GCP OBSERVATION LOG

Project Number	Project Name	Company	Field Operator
78654	So Cal Wildfire	Woolpert Inc.	EN/ZJH/KMF

Coordinate System	Hor. Datum	Ver. Datum	Zone	Geoid
NAD 1983 (Conus)	Albers Equal Area	NAVD88	Albers Equal Area	GEOID12B (Conus)

Station ID	Northing (m)	Easting (m)	Elevation (m)
1002_2018_CA	1555360.566	-2105236.900	1095.000

Point Type	Latitude (Global)	Longitude (Global)	Ellipsoid Height (m)
LiDAR Control	N34°42'49.29859"	W119°24'27.22987"	1062.522

Location Photo

NORTH

1002_2018_CA, 1, 20180809

1002_2018_CA, 3N, 20180809

WOOLPERT

GCP OBSERVATION LOG

Project Number	Project Name	Company	Field Operator
78654	So Cal Wildfire	Woolpert Inc.	EN/ZJH/KMF

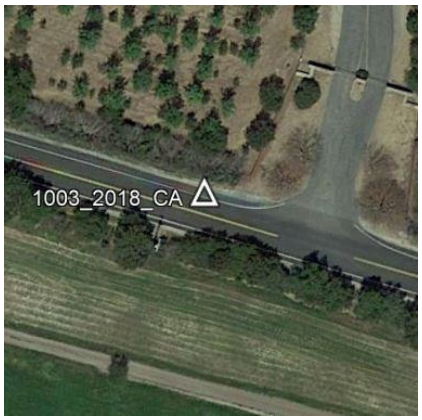
Coordinate System	Hor. Datum	Ver. Datum	Zone	Geoid
NAD 1983 (Conus)	Albers Equal Area	NAVD88	Albers Equal Area	GEOID12B (Conus)

Station ID	Northing (m)	Easting (m)	Elevation (m)
1003_2018_CA	1522204.812	-2104976.212	180.137

Point Type	Latitude (Global)	Longitude (Global)	Ellipsoid Height (m)
LiDAR Control	N34°25'36.12832"	W119°18'58.10595"	145.451

Location Photo

NORTH



1003_2018_CA, 2, 20180806

1003_2018_CA, 3E, 20180806

WOOLPERT

GCP OBSERVATION LOG

Project Number	Project Name	Company	Field Operator
78654	So Cal Wildfire	Woolpert Inc.	EN/ZJH/KMF

Coordinate System	Hor. Datum	Ver. Datum	Zone	Geoid
NAD 1983 (Conus)	Albers Equal Area	NAVD88	Albers Equal Area	GEOID12B (Conus)

Station ID	Northing (m)	Easting (m)	Elevation (m)
1004A_2018_CA	1567548.190	-2151431.189	1180.273

Point Type	Latitude (Global)	Longitude (Global)	Ellipsoid Height (m)
LiDAR Control	N34°43'02.95284"	W119°56'00.23723"	1146.209

Location Photo

NORTH

1004A_2018_CA, 2, 20180719

1004A_2018_CA, 3E, 20180719

WOOLPERT

GCP OBSERVATION LOG

Project Number	Project Name	Company	Field Operator
78654	So Cal Wildfire	Woolpert Inc.	EN/ZJH/KMF

Coordinate System	Hor. Datum	Ver. Datum	Zone	Geoid
NAD 1983 (Conus)	Albers Equal Area	NAVD88	Albers Equal Area	GEOID12B (Conus)

Station ID	Northing (m)	Easting (m)	Elevation (m)
1005_2018_CA	1579089.025	-2211375.257	23.216

Point Type	Latitude (Global)	Longitude (Global)	Ellipsoid Height (m)
LiDAR Control	N34°40'54.99788"	W120°36'13.50989"	-12.879

Location Photo

NORTH

1005_2018_CA, 2, 20180717

1005_2018_CA, 3N, 20180717

GCP OBSERVATION LOG

Project Number	Project Name	Company	Field Operator
78654	So Cal Wildfire	Woolpert Inc.	EN/ZJH/KMF

Coordinate System	Hor. Datum	Ver. Datum	Zone	Geoid
NAD 1983 (Conus)	Albers Equal Area	NAVD88	Albers Equal Area	GEOID12B (Conus)

Station ID	Northing (m)	Easting (m)	Elevation (m)
1006_2018_CA	1567767.973	-2207488.300	213.658

Point Type	Latitude (Global)	Longitude (Global)	Ellipsoid Height (m)
LiDAR Control	N34°35'34.68811"	W120°31'50.19416"	177.722

Location Photo

NORTH

1006_2018_CA, 2, 20180717

1006_2018_CA, 3SE, 20180717

WOOLPERT

GCP OBSERVATION LOG

Project Number	Project Name	Company	Field Operator
78654	So Cal Wildfire	Woolpert Inc.	EN/ZJH/KMF

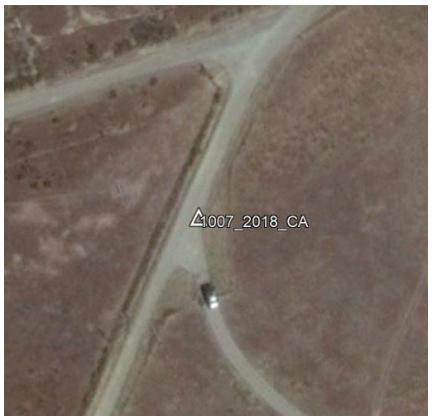
Coordinate System	Hor. Datum	Ver. Datum	Zone	Geoid
NAD 1983 (Conus)	Albers Equal Area	NAVD88	Albers Equal Area	GEOID12B (Conus)

Station ID	Northing (m)	Easting (m)	Elevation (m)
1007_2018_CA	1565447.304	-2206809.100	389.046

Point Type	Latitude (Global)	Longitude (Global)	Ellipsoid Height (m)
LiDAR Control	N34°34'28.03892"	W120°31'00.78926"	353.127

Location Photo

NORTH



1007_2018_CA, 2, 20180717

1007_2018_CA, 3N, 20180717

WOOLPERT

GCP OBSERVATION LOG

Project Number	Project Name	Company	Field Operator
78654	So Cal Wildfire	Woolpert Inc.	EN/ZJH/KMF

Coordinate System	Hor. Datum	Ver. Datum	Zone	Geoid
NAD 1983 (Conus)	Albers Equal Area	NAVD88	Albers Equal Area	GEOID12B (Conus)

Station ID	Northing (m)	Easting (m)	Elevation (m)
1008_2018_CA	1566240.708	-2203670.341	254.224

Point Type	Latitude (Global)	Longitude (Global)	Ellipsoid Height (m)
LiDAR Control	N34°35'18.49605"	W120°29'08.73758"	218.350

Location Photo

NORTH

1008_2018_CA, 2, 20180717

1008_2018_CA, 3NW, 20180717

WOOLPERT

GCP OBSERVATION LOG

Project Number	Project Name	Company	Field Operator
78654	So Cal Wildfire	Woolpert Inc.	EN/ZJH/KMF

Coordinate System	Hor. Datum	Ver. Datum	Zone	Geoid
NAD 1983 (Conus)	Albers Equal Area	NAVD88	Albers Equal Area	GEOID12B (Conus)

Station ID	Northing (m)	Easting (m)	Elevation (m)
1009_2018_CA	1557573.282	-2199914.529	170.003

Point Type	Latitude (Global)	Longitude (Global)	Ellipsoid Height (m)
LiDAR Control	N34°31'19.43755"	W120°25'17.89057"	134.070

Location Photo

NORTH

1009_2018_CA, 2, 20180714

1009_2018_CA, 3N, 20180714

WOOLPERT

GCP OBSERVATION LOG

Project Number	Project Name	Company	Field Operator
78654	So Cal Wildfire	Woolpert Inc.	EN/ZJH/KMF

Coordinate System	Hor. Datum	Ver. Datum	Zone	Geoid
NAD 1983 (Conus)	Albers Equal Area	NAVD88	Albers Equal Area	GEOID12B (Conus)

Station ID	Northing (m)	Easting (m)	Elevation (m)
1010_2018_CA	1557551.405	-2198022.771	309.122
Point Type	**Latitude (Global)**	**Longitude (Global)**	**Ellipsoid Height (m)**
LiDAR Control	N34°31'34.22846"	W120°24'05.34909"	273.229

Location Photo

NORTH

1010_2018_CA, 2, 20180714

1010_2018_CA, 3N, 20180714

WOOLPERT

GCP OBSERVATION LOG

Project Number	Project Name	Company	Field Operator
78654	So Cal Wildfire	Woolpert Inc.	EN/ZJH/KMF

Coordinate System	Hor. Datum	Ver. Datum	Zone	Geoid
NAD 1983 (Conus)	Albers Equal Area	NAVD88	Albers Equal Area	GEOID12B (Conus)

Station ID	Northing (m)	Easting (m)	Elevation (m)
1011_2018_CA	1572559.659	-2194297.701	57.868

Point Type	Latitude (Global)	Longitude (Global)	Ellipsoid Height (m)
LiDAR Control	N34°39'51.95046"	W120°24'13.60489"	21.951

Location Photo

NORTH

1011_2018_CA, 2, 20180718

1011_2018_CA, 3W, 20180718

GCP OBSERVATION LOG

Project Number	Project Name	Company	Field Operator
78654	So Cal Wildfire	Woolpert Inc.	EN/ZJH/KMF

Coordinate System	Hor. Datum	Ver. Datum	Zone	Geoid
NAD 1983 (Conus)	Albers Equal Area	NAVD88	Albers Equal Area	GEOID12B (Conus)

Station ID	Northing (m)	Easting (m)	Elevation (m)
1012_2018_CA	1571298.591	-2189506.407	121.591

Point Type	Latitude (Global)	Longitude (Global)	Ellipsoid Height (m)
LiDAR Control	N34°39'51.81369"	W120°20'57.41458"	85.775

Location Photo

NORTH

1012_2018_CA, 2, 20180718

1012_2018_CA, 3N, 20180718

GCP OBSERVATION LOG

Project Number	Project Name	Company	Field Operator
78654	So Cal Wildfire	Woolpert Inc.	EN/ZJH/KMF

Coordinate System	Hor. Datum	Ver. Datum	Zone	Geoid
NAD 1983 (Conus)	Albers Equal Area	NAVD88	Albers Equal Area	GEOID12B (Conus)

Station ID	Northing (m)	Easting (m)	Elevation (m)
1013_2018_CA	1570047.974	-2198997.809	54.941

Point Type	Latitude (Global)	Longitude (Global)	Ellipsoid Height (m)
LiDAR Control	N34°37'55.30433"	W120°26'48.29451"	18.997

Location Photo

NORTH

1013_2018_CA, 2, 20180714

1013_2018_CA, 3N, 20180714

WOOLPERT

GCP OBSERVATION LOG

Project Number	Project Name	Company	Field Operator
78654	So Cal Wildfire	Woolpert Inc.	EN/ZJH/KMF

Coordinate System	Hor. Datum	Ver. Datum	Zone	Geoid
NAD 1983 (Conus)	Albers Equal Area	NAVD88	Albers Equal Area	GEOID12B (Conus)

Station ID	Northing (m)	Easting (m)	Elevation (m)
1014_2018_CA	1566546.317	-2185069.246	127.376

Point Type	Latitude (Global)	Longitude (Global)	Ellipsoid Height (m)
LiDAR Control	N34°37'59.98100"	W120°17'19.84209"	91.639

Location Photo

NORTH

1014_2018_CA, 2, 20180718

1014_2018_CA, 3NE, 20180718

WOOLPERT

GCP OBSERVATION LOG

Project Number	Project Name	Company	Field Operator
78654	So Cal Wildfire	Woolpert Inc.	EN/ZJH/KMF

Coordinate System	Hor. Datum	Ver. Datum	Zone	Geoid
NAD 1983 (Conus)	Albers Equal Area	NAVD88	Albers Equal Area	GEOID12B (Conus)

Station ID	Northing (m)	Easting (m)	Elevation (m)
1015_2018_CA	1564086.075	-2180089.463	101.847
Point Type	**Latitude (Global)**	**Longitude (Global)**	**Ellipsoid Height (m)**
LiDAR Control	N34°37'23.83021"	W120°13'44.54038"	66.173

Location Photo

NORTH

1015_2018_CA, 2, 20180718

1015_2018_CA, 3N, 20180718

WOOLPERT

GCP OBSERVATION LOG

Project Number	Project Name	Company	Field Operator
78654	So Cal Wildfire	Woolpert Inc.	EN/ZJH/KMF

Coordinate System	Hor. Datum	Ver. Datum	Zone	Geoid
NAD 1983 (Conus)	Albers Equal Area	NAVD88	Albers Equal Area	GEOID12B (Conus)

Station ID	Northing (m)	Easting (m)	Elevation (m)
1016_2018_CA	1572864.956	-2183254.409	260.588

Point Type	Latitude (Global)	Longitude (Global)	Ellipsoid Height (m)
LiDAR Control	N34°41'31.52110"	W120°17'13.56452"	224.924

Location Photo

NORTH

1016_2018_CA, 2, 20180718

1016_2018_CA, 3N, 20180718

WOOLPERT

GCP OBSERVATION LOG

Project Number	Project Name	Company	Field Operator
78654	So Cal Wildfire	Woolpert Inc.	EN/ZJH/KMF

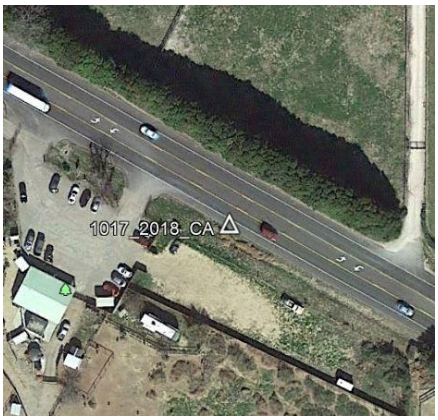
Coordinate System	Hor. Datum	Ver. Datum	Zone	Geoid
NAD 1983 (Conus)	Albers Equal Area	NAVD88	Albers Equal Area	GEOID12B (Conus)

Station ID	Northing (m)	Easting (m)	Elevation (m)
1017_2018_CA	1561045.384	-2175898.299	109.758

Point Type	Latitude (Global)	Longitude (Global)	Ellipsoid Height (m)
LiDAR Control	N34°36'23.09847"	W120°10'33.71724"	74.141

Location Photo

NORTH



1017_2018_CA, 2, 20180719

1017_2018_CA, 3NW, 20180719

GCP OBSERVATION LOG

Project Number	Project Name	Company	Field Operator
78654	So Cal Wildfire	Woolpert Inc.	EN/ZJH/KMF

Coordinate System	Hor. Datum	Ver. Datum	Zone	Geoid
NAD 1983 (Conus)	Albers Equal Area	NAVD88	Albers Equal Area	GEOID12B (Conus)

Station ID	Northing (m)	Easting (m)	Elevation (m)
1018_2018_CA	1557513.763	-2178301.237	155.243

Point Type	Latitude (Global)	Longitude (Global)	Ellipsoid Height (m)
LiDAR Control	N34°34'13.60532"	W120°11'30.54470"	119.625

Location Photo

NORTH

1018_2018_CA, 2, 20180719

1018_2018_CA, 3N, 20180719

WOOLPERT

GCP OBSERVATION LOG

Project Number	Project Name	Company	Field Operator
78654	So Cal Wildfire	Woolpert Inc.	EN/ZJH/KMF

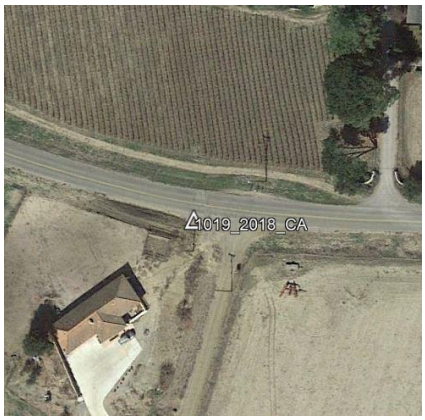
Coordinate System	Hor. Datum	Ver. Datum	Zone	Geoid
NAD 1983 (Conus)	Albers Equal Area	NAVD88	Albers Equal Area	GEOID12B (Conus)

Station ID	Northing (m)	Easting (m)	Elevation (m)
1019_2018_CA	1561956.071	-2184564.491	89.442

Point Type	Latitude (Global)	Longitude (Global)	Ellipsoid Height (m)
LiDAR Control	N34°35'41.12823"	W120°16'14.61007"	53.720

Location Photo

NORTH



1019_2018_CA, 2, 20180718

1019_2018_CA, 3S, 20180718

WOOLPERT

GCP OBSERVATION LOG

Project Number	Project Name	Company	Field Operator
78654	So Cal Wildfire	Woolpert Inc.	EN/ZJH/KMF

Coordinate System	Hor. Datum	Ver. Datum	Zone	Geoid
NAD 1983 (Conus)	Albers Equal Area	NAVD88	Albers Equal Area	GEOID12B (Conus)

Station ID	Northing (m)	Easting (m)	Elevation (m)
1020_2018_CA	1559426.627	-2171431.136	147.565

Point Type	Latitude (Global)	Longitude (Global)	Ellipsoid Height (m)
LiDAR Control	N34°36'08.81469"	W120°07'26.53541"	112.023

Location Photo

NORTH

1020_2018_CA, 2, 20180718

1020_2018_CA, 3S, 20180718

WOOLPERT

GCP OBSERVATION LOG

Project Number	Project Name	Company	Field Operator
78654	So Cal Wildfire	Woolpert Inc.	EN/ZJH/KMF

Coordinate System	Hor. Datum	Ver. Datum	Zone	Geoid
NAD 1983 (Conus)	Albers Equal Area	NAVD88	Albers Equal Area	GEOID12B (Conus)

Station ID	Northing (m)	Easting (m)	Elevation (m)
1021_2018_CA	1553066.636	-2179918.121	281.503

Point Type	Latitude (Global)	Longitude (Global)	Ellipsoid Height (m)
LiDAR Control	N34°31'41.95287"	W120°11'48.13103"	245.786

Location Photo

NORTH

1021_2018_CA, 2, 20180714

1021_2018_CA, 3S, 20180714

WOOLPERT

GCP OBSERVATION LOG

Project Number	Project Name	Company	Field Operator
78654	So Cal Wildfire	Woolpert Inc.	EN/ZJH/KMF

Coordinate System	Hor. Datum	Ver. Datum	Zone	Geoid
NAD 1983 (Conus)	Albers Equal Area	NAVD88	Albers Equal Area	GEOID12B (Conus)

Station ID	Northing (m)	Easting (m)	Elevation (m)
1022_2018_CA	1548137.364	-2161016.030	1247.111

Point Type	Latitude (Global)	Longitude (Global)	Ellipsoid Height (m)
LiDAR Control	N34°31'40.93848"	W119°58'55.96387"	1211.927

Location Photo

NORTH

1022_2018_CA, 2, 20180714

1022_2018_CA, 3S, 20180714

WOOLPERT

GCP OBSERVATION LOG

Project Number	Project Name	Company	Field Operator
78654	So Cal Wildfire	Woolpert Inc.	EN/ZJH/KMF

Coordinate System	Hor. Datum	Ver. Datum	Zone	Geoid
NAD 1983 (Conus)	Albers Equal Area	NAVD88	Albers Equal Area	GEOID12B (Conus)

Station ID	Northing (m)	Easting (m)	Elevation (m)
1023_2018_CA	1543144.472	-2151860.499	813.807

Point Type	Latitude (Global)	Longitude (Global)	Ellipsoid Height (m)
LiDAR Control	N34°30'18.69826"	W119°52'16.35786"	778.725

Location Photo

NORTH

1023_2018_CA, 2, 20180713

1023_2018_CA, 3N, 20180713

WOOLPERT

GCP OBSERVATION LOG

Project Number	Project Name	Company	Field Operator
78654	So Cal Wildfire	Woolpert Inc.	EN/ZJH/KMF

Coordinate System	Hor. Datum	Ver. Datum	Zone	Geoid
NAD 1983 (Conus)	Albers Equal Area	NAVD88	Albers Equal Area	GEOID12B (Conus)

Station ID	Northing (m)	Easting (m)	Elevation (m)
1024_2018_CA	1559394.843	-2167304.195	185.914

Point Type	Latitude (Global)	Longitude (Global)	Ellipsoid Height (m)
LiDAR Control	N34°36'41.15548"	W120°04'48.14381"	150.462

Location Photo

NORTH

1024_2018_CA, 2, 20180718

1024_2018_CA, 3N, 20180718

WOOLPERT

GCP OBSERVATION LOG

Project Number	Project Name	Company	Field Operator
78654	So Cal Wildfire	Woolpert Inc.	EN/ZJH/KMF

Coordinate System	Hor. Datum	Ver. Datum	Zone	Geoid
NAD 1983 (Conus)	Albers Equal Area	NAVD88	Albers Equal Area	GEOID12B (Conus)

Station ID	Northing (m)	Easting (m)	Elevation (m)
1025_2018_CA	1556741.723	-2163178.716	176.812

Point Type	Latitude (Global)	Longitude (Global)	Ellipsoid Height (m)
LiDAR Control	N34°35'51.72982"	W120°01'43.81921"	141.481

Location Photo

NORTH

1025_2018_CA, 2, 20180719

1025_2018_CA, 3E, 20180719

WOOLPERT

GCP OBSERVATION LOG

Project Number	Project Name	Company	Field Operator
78654	So Cal Wildfire	Woolpert Inc.	EN/ZJH/KMF

Coordinate System	Hor. Datum	Ver. Datum	Zone	Geoid
NAD 1983 (Conus)	Albers Equal Area	NAVD88	Albers Equal Area	GEOID12B (Conus)

Station ID	Northing (m)	Easting (m)	Elevation (m)
1029_2018_CA	1545990.542	-2149312.773	321.624

Point Type	Latitude (Global)	Longitude (Global)	Ellipsoid Height (m)
LiDAR Control	N34°32'07.82438"	W119°51'06.76578"	286.696

Location Photo

NORTH

1029_2018_CA, 2, 20180719

1029_2018_CA, 3S, 20180719

WOOLPERT

GCP OBSERVATION LOG

Project Number	Project Name	Company	Field Operator
78654	So Cal Wildfire	Woolpert Inc.	EN/ZJH/KMF

Coordinate System	Hor. Datum	Ver. Datum	Zone	Geoid
NAD 1983 (Conus)	Albers Equal Area	NAVD88	Albers Equal Area	GEOID12B (Conus)

Station ID	Northing (m)	Easting (m)	Elevation (m)
1031_2018_CA	1545741.403	-2143794.175	294.826

Point Type	Latitude (Global)	Longitude (Global)	Ellipsoid Height (m)
LiDAR Control	N34°32'44.12239"	W119°47'32.96231"	260.167

Location Photo

NORTH

1031_2018_CA, 2, 20180719

1031_2018_CA, 3N, 20180719

WOOLPERT

GCP OBSERVATION LOG

Project Number	Project Name	Company	Field Operator
78654	So Cal Wildfire	Woolpert Inc.	EN/ZJH/KMF

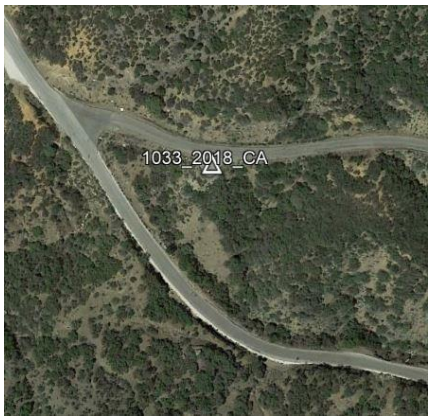
Coordinate System	Hor. Datum	Ver. Datum	Zone	Geoid
NAD 1983 (Conus)	Albers Equal Area	NAVD88	Albers Equal Area	GEOID12B (Conus)

Station ID	Northing (m)	Easting (m)	Elevation (m)
1033_2018_CA	1537497.174	-2136208.837	1065.780

Point Type	Latitude (Global)	Longitude (Global)	Ellipsoid Height (m)
LiDAR Control	N34°29'27.33042"	W119°41'21.90951"	1031.117

Location Photo

NORTH



1033_2018_CA, 2, 20180805

1033_2018_CA, 3W, 20180805

WOOLPERT

GCP OBSERVATION LOG

Project Number	Project Name	Company	Field Operator
78654	So Cal Wildfire	Woolpert Inc.	EN/ZJH/KMF

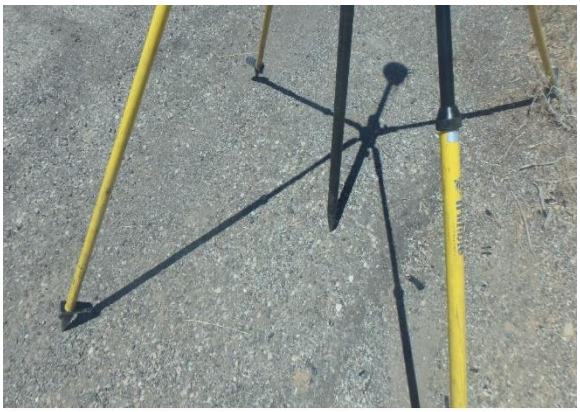
Coordinate System	Hor. Datum	Ver. Datum	Zone	Geoid
NAD 1983 (Conus)	Albers Equal Area	NAVD88	Albers Equal Area	GEOID12B (Conus)

Station ID	Northing (m)	Easting (m)	Elevation (m)
1034_2018_CA	1539001.351	-2138461.790	1198.949

Point Type	Latitude (Global)	Longitude (Global)	Ellipsoid Height (m)
LiDAR Control	N34°29'56.35260"	W119°43'02.84417"	1164.279

Location Photo

NORTH



1034_2018_CA, 2, 20180721

1034_2018_CA, 3N, 20180721

WOOLPERT

GCP OBSERVATION LOG

Project Number	Project Name	Company	Field Operator
78654	So Cal Wildfire	Woolpert Inc.	EN/ZJH/KMF

Coordinate System	Hor. Datum	Ver. Datum	Zone	Geoid
NAD 1983 (Conus)	Albers Equal Area	NAVD88	Albers Equal Area	GEOID12B (Conus)

Station ID	Northing (m)	Easting (m)	Elevation (m)
1036_2018_CA	1544259.509	-2140403.961	320.601

Point Type	Latitude (Global)	Longitude (Global)	Ellipsoid Height (m)
LiDAR Control	N34°32'24.91923"	W119°45'08.59347"	286.074

Location Photo

NORTH

1036_2018_CA, 2, 20180805

1036_2018_CA, 3N, 20180805

WOOLPERT

GCP OBSERVATION LOG

Project Number	Project Name	Company	Field Operator
78654	So Cal Wildfire	Woolpert Inc.	EN/ZJH/KMF

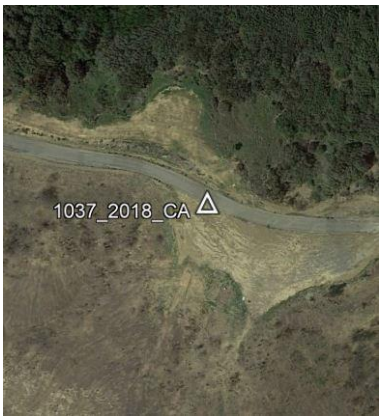
Coordinate System	Hor. Datum	Ver. Datum	Zone	Geoid
NAD 1983 (Conus)	Albers Equal Area	NAVD88	Albers Equal Area	GEOID12B (Conus)

Station ID	Northing (m)	Easting (m)	Elevation (m)
1037_2018_CA	1534440.956	-2129755.303	1025.690

Point Type	Latitude (Global)	Longitude (Global)	Ellipsoid Height (m)
LiDAR Control	N34°28'43.14496"	W119°36'45.06629"	991.101

Location Photo

NORTH



1037_2018_CA, 2, 20180721

1037_2018_CA, 3S, 20180721

WOOLPERT

GCP OBSERVATION LOG

Project Number	Project Name	Company	Field Operator
78654	So Cal Wildfire	Woolpert Inc.	EN/ZJH/KMF

Coordinate System	Hor. Datum	Ver. Datum	Zone	Geoid
NAD 1983 (Conus)	Albers Equal Area	NAVD88	Albers Equal Area	GEOID12B (Conus)

Station ID	Northing (m)	Easting (m)	Elevation (m)
1039_2018_CA	1557765.557	-2087522.192	1375.721

Point Type	Latitude (Global)	Longitude (Global)	Ellipsoid Height (m)
LiDAR Control	N34°46'22.86613"	W119°13'29.21785"	1344.144

Location Photo

NORTH

1039_2018_CA, 2, 20180808

1039_2018_CA, 3E, 20180808

WOOLPERT

GCP OBSERVATION LOG

Project Number	Project Name	Company	Field Operator
78654	So Cal Wildfire	Woolpert Inc.	EN/ZJH/KMF

Coordinate System	Hor. Datum	Ver. Datum	Zone	Geoid
NAD 1983 (Conus)	Albers Equal Area	NAVD88	Albers Equal Area	GEOID12B (Conus)

Station ID	Northing (m)	Easting (m)	Elevation (m)
1040_2018_CA	1548510.134	-2075691.948	1615.786

Point Type	Latitude (Global)	Longitude (Global)	Ellipsoid Height (m)
LiDAR Control	N34°43'05.61353"	W119°04'25.61798"	1584.380

Location Photo

NORTH

1040_2018_CA, 2, 20180808

1040_2018_CA, 3E, 20180808

WOOLPERT

GCP OBSERVATION LOG

Project Number	Project Name	Company	Field Operator
78654	So Cal Wildfire	Woolpert Inc.	EN/ZJH/KMF

Coordinate System	Hor. Datum	Ver. Datum	Zone	Geoid
NAD 1983 (Conus)	Albers Equal Area	NAVD88	Albers Equal Area	GEOID12B (Conus)

Station ID	Northing (m)	Easting (m)	Elevation (m)
1042_2018_CA	1533791.109	-2128301.198	924.683

Point Type	Latitude (Global)	Longitude (Global)	Ellipsoid Height (m)
LiDAR Control	N34°28'34.37399"	W119°35'43.07679"	890.117

Location Photo

NORTH

1042_2018_CA, 2, 20180721

1042_2018_CA, 3S, 20180721

GCP OBSERVATION LOG

Project Number	Project Name	Company	Field Operator
78654	So Cal Wildfire	Woolpert Inc.	EN/ZJH/KMF

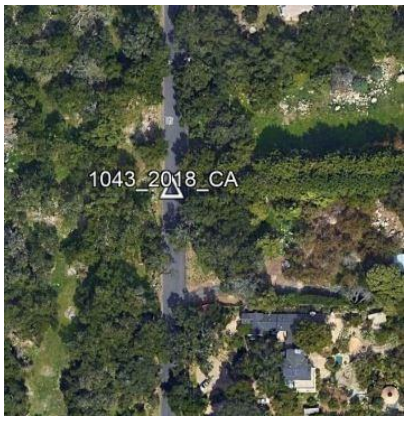
Coordinate System	Hor. Datum	Ver. Datum	Zone	Geoid
NAD 1983 (Conus)	Albers Equal Area	NAVD88	Albers Equal Area	GEOID12B (Conus)

Station ID	Northing (m)	Easting (m)	Elevation (m)
1043_2018_CA	1529294.374	-2127936.693	171.399

Point Type	Latitude (Global)	Longitude (Global)	Ellipsoid Height (m)
LiDAR Control	N34°26'16.92266"	W119°34'45.49628"	136.306

Location Photo

NORTH



1043_2018_CA, 2, 20180713

1043_2018_CA, 3N, 20180713

WOOLPERT

GCP OBSERVATION LOG

Project Number	Project Name	Company	Field Operator
78654	So Cal Wildfire	Woolpert Inc.	EN/ZJH/KMF

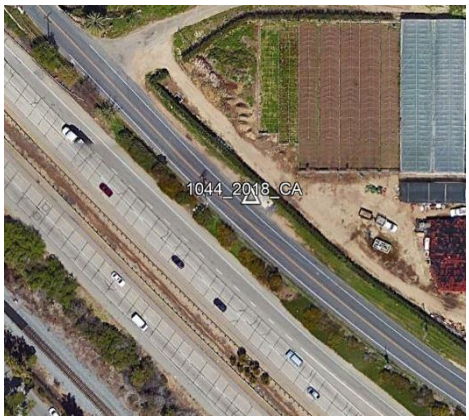
Coordinate System	Hor. Datum	Ver. Datum	Zone	Geoid
NAD 1983 (Conus)	Albers Equal Area	NAVD88	Albers Equal Area	GEOID12B (Conus)

Station ID	Northing (m)	Easting (m)	Elevation (m)
1044_2018_CA	1526116.953	-2126553.952	4.953

Point Type	Latitude (Global)	Longitude (Global)	Ellipsoid Height (m)
LiDAR Control	N34°24'48.68036"	W119°33'21.79114"	-30.410

Location Photo

NORTH



1044_2018_CA, 2, 20180713

1044_2018_CA, 3NE, 20180713

WOOLPERT

GCP OBSERVATION LOG

Project Number	Project Name	Company	Field Operator
78654	So Cal Wildfire	Woolpert Inc.	EN/ZJH/KMF

Coordinate System	Hor. Datum	Ver. Datum	Zone	Geoid
NAD 1983 (Conus)	Albers Equal Area	NAVD88	Albers Equal Area	GEOID12B (Conus)

Station ID	Northing (m)	Easting (m)	Elevation (m)
1047_2018_CA	1524943.201	-2123382.550	13.806

Point Type	Latitude (Global)	Longitude (Global)	Ellipsoid Height (m)
LiDAR Control	N34°24'37.07508"	W119°31'09.07945"	-21.491

Location Photo

NORTH

1047_2018_CA, 2, 20180806

1047_2018_CA, 3E, 20180806

WOOLPERT

GCP OBSERVATION LOG

Project Number	Project Name	Company	Field Operator
78654	So Cal Wildfire	Woolpert Inc.	EN/ZJH/KMF

Coordinate System	Hor. Datum	Ver. Datum	Zone	Geoid
NAD 1983 (Conus)	Albers Equal Area	NAVD88	Albers Equal Area	GEOID12B (Conus)

Station ID	Northing (m)	Easting (m)	Elevation (m)
1048_2018_CA	1554378.512	-2187386.152	293.116

Point Type	Latitude (Global)	Longitude (Global)	Ellipsoid Height (m)
LiDAR Control	N34°31'22.16446"	W120°16'46.85789"	257.294

Location Photo

NORTH

1048_2018_CA, 2, 20180714

1048_2018_CA, 3N, 20180714

WOOLPERT

GCP OBSERVATION LOG

Project Number	Project Name	Company	Field Operator
78654	So Cal Wildfire	Woolpert Inc.	EN/ZJH/KMF

Coordinate System	Hor. Datum	Ver. Datum	Zone	Geoid
NAD 1983 (Conus)	Albers Equal Area	NAVD88	Albers Equal Area	GEOID12B (Conus)

Station ID	Northing (m)	Easting (m)	Elevation (m)
1049_2018_CA	1568667.388	-2153968.434	1238.776

Point Type	Latitude (Global)	Longitude (Global)	Ellipsoid Height (m)
LiDAR Control	N34°43'17.47498"	W119°57'48.66322"	1204.576

Location Photo

NORTH

1049_2018_CA, 2, 20180719

1049_2018_CA, 3S, 20180719

WOOLPERT

GCP OBSERVATION LOG

Project Number	Project Name	Company	Field Operator
78654	So Cal Wildfire	Woolpert Inc.	EN/ZJH/KMF

Coordinate System	Hor. Datum	Ver. Datum	Zone	Geoid
NAD 1983 (Conus)	Albers Equal Area	NAVD88	Albers Equal Area	GEOID12B (Conus)

Station ID	Northing (m)	Easting (m)	Elevation (m)
1050_2018_CA	1571103.681	-2156475.977	1062.869

Point Type	Latitude (Global)	Longitude (Global)	Ellipsoid Height (m)
LiDAR Control	N34°44'13.25426"	W119°59'49.00131"	1028.541

Location Photo

NORTH

1050_2018_CA, 2, 20180719

1050_2018_CA, 3N, 20180719

WOOLPERT

GCP OBSERVATION LOG

Project Number	Project Name	Company	Field Operator
78654	So Cal Wildfire	Woolpert Inc.	EN/ZJH/KMF

Coordinate System	Hor. Datum	Ver. Datum	Zone	Geoid
NAD 1983 (Conus)	Albers Equal Area	NAVD88	Albers Equal Area	GEOID12B (Conus)

Station ID	Northing (m)	Easting (m)	Elevation (m)
1051A_2018_CA	1567055.269	-2150726.759	1090.707

Point Type	Latitude (Global)	Longitude (Global)	Ellipsoid Height (m)
LiDAR Control	N34°42'53.23696"	W119°55'28.33796"	1056.659

Location Photo

NORTH

1051A_2018_CA, 2, 20180719

1051A_2018_CA, 3E, 20180719

WOOLPERT

GCP OBSERVATION LOG

Project Number	Project Name	Company	Field Operator
78654	So Cal Wildfire	Woolpert Inc.	EN/ZJH/KMF

Coordinate System	Hor. Datum	Ver. Datum	Zone	Geoid
NAD 1983 (Conus)	Albers Equal Area	NAVD88	Albers Equal Area	GEOID12B (Conus)

Station ID	Northing (m)	Easting (m)	Elevation (m)
1052_2018_CA	1490207.964	-2048770.730	478.204
Point Type	**Latitude (Global)**	**Longitude (Global)**	**Ellipsoid Height (m)**
LiDAR Control	N34°16'09.10481"	W118°38'03.87595"	443.722

Location Photo

NORTH

1052_2018_CA, 2, 20181712

1052_2018_CA, 3NE, 20181712

WOOLPERT

GCP OBSERVATION LOG

Project Number	Project Name	Company	Field Operator
78654	So Cal Wildfire	Woolpert Inc.	EN/ZJH/KMF

Coordinate System	Hor. Datum	Ver. Datum	Zone	Geoid
NAD 1983 (Conus)	Albers Equal Area	NAVD88	Albers Equal Area	GEOID12B (Conus)

Station ID	Northing (m)	Easting (m)	Elevation (m)
1053A_2018_CA	1484154.107	-2053221.436	292.219

Point Type	Latitude (Global)	Longitude (Global)	Ellipsoid Height (m)
LiDAR Control	N34°12'25.82637"	W118°39'57.91005"	257.536

Location Photo

NORTH

1053A_2018_CA, 2, 20181712

1053A_2018_CA, 3S, 20181712

WOOLPERT

GCP OBSERVATION LOG

Project Number	Project Name	Company	Field Operator
78654	So Cal Wildfire	Woolpert Inc.	EN/ZJH/KMF

Coordinate System	Hor. Datum	Ver. Datum	Zone	Geoid
NAD 1983 (Conus)	Albers Equal Area	NAVD88	Albers Equal Area	GEOID12B (Conus)

Station ID	Northing (m)	Easting (m)	Elevation (m)
1055_2018_CA	1494481.133	-2059788.293	277.018
Point Type	**Latitude (Global)**	**Longitude (Global)**	**Ellipsoid Height (m)**
LiDAR Control	N34°16'58.86508"	W118°45'45.48384"	242.288

Location Photo

NORTH

1055_2018_CA, 2, 20180711

1055_2018_CA, 3N, 20180711

WOOLPERT

GCP OBSERVATION LOG

Project Number	Project Name	Company	Field Operator
78654	So Cal Wildfire	Woolpert Inc.	EN/ZJH/KMF

Coordinate System	Hor. Datum	Ver. Datum	Zone	Geoid
NAD 1983 (Conus)	Albers Equal Area	NAVD88	Albers Equal Area	GEOID12B (Conus)

Station ID	Northing (m)	Easting (m)	Elevation (m)
1057_2018_CA	1497004.707	-2065634.183	211.862
Point Type	**Latitude (Global)**	**Longitude (Global)**	**Ellipsoid Height (m)**
LiDAR Control	N34°17'33.07491"	W118°49'52.88102"	176.948

Location Photo

NORTH

1057_2018_CA, 2, 20180711

1057_2018_CA, 3S, 20180711

WOOLPERT

GCP OBSERVATION LOG

Project Number	Project Name	Company	Field Operator
78654	So Cal Wildfire	Woolpert Inc.	EN/ZJH/KMF

Coordinate System	Hor. Datum	Ver. Datum	Zone	Geoid
NAD 1983 (Conus)	Albers Equal Area	NAVD88	Albers Equal Area	GEOID12B (Conus)

Station ID	Northing (m)	Easting (m)	Elevation (m)
1058_2018_CA	1497232.476	-2071679.485	144.414

Point Type	Latitude (Global)	Longitude (Global)	Ellipsoid Height (m)
LiDAR Control	N34°16'53.81467"	W118°53'46.38074"	109.311

Location Photo

NORTH

1058_2018_CA, 2, 20180711

1058_2018_CA, 3S, 20180711

WOOLPERT

GCP OBSERVATION LOG

Project Number	Project Name	Company	Field Operator
78654	So Cal Wildfire	Woolpert Inc.	EN/ZJH/KMF

Coordinate System	Hor. Datum	Ver. Datum	Zone	Geoid
NAD 1983 (Conus)	Albers Equal Area	NAVD88	Albers Equal Area	GEOID12B (Conus)

Station ID	Northing (m)	Easting (m)	Elevation (m)
1060_2018_CA	1497151.729	-2077591.154	116.100

Point Type	Latitude (Global)	Longitude (Global)	Ellipsoid Height (m)
LiDAR Control	N34°16'05.80709"	W118°57'31.79483"	80.830

Location Photo

NORTH

1060_2018_CA, 2, 20181712

1060_2018_CA, 3N, 20181712

WOOLPERT

GCP OBSERVATION LOG

Project Number	Project Name	Company	Field Operator
78654	So Cal Wildfire	Woolpert Inc.	EN/ZJH/KMF

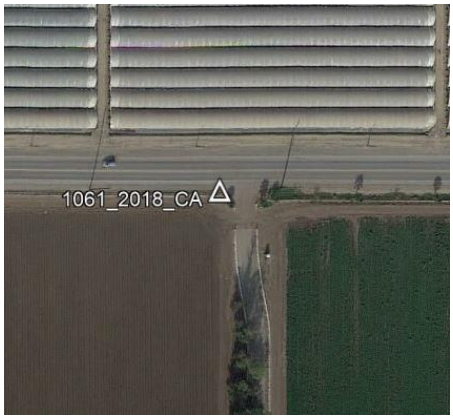
Coordinate System	Hor. Datum	Ver. Datum	Zone	Geoid
NAD 1983 (Conus)	Albers Equal Area	NAVD88	Albers Equal Area	GEOID12B (Conus)

Station ID	Northing (m)	Easting (m)	Elevation (m)
1061_2018_CA	1498123.572	-2083665.334	116.452

Point Type	Latitude (Global)	Longitude (Global)	Ellipsoid Height (m)
LiDAR Control	N34°15'49.32762"	W119°01'33.29356"	80.988

Location Photo

NORTH



1061_2018_CA, 2, 20181712

1061_2018_CA, 3W, 20181712

WOOLPERT

GCP OBSERVATION LOG

Project Number	Project Name	Company	Field Operator
78654	So Cal Wildfire	Woolpert Inc.	EN/ZJH/KMF

Coordinate System	Hor. Datum	Ver. Datum	Zone	Geoid
NAD 1983 (Conus)	Albers Equal Area	NAVD88	Albers Equal Area	GEOID12B (Conus)

Station ID	Northing (m)	Easting (m)	Elevation (m)
1063_2018_CA	1499520.372	-2089429.845	76.183

Point Type	Latitude (Global)	Longitude (Global)	Ellipsoid Height (m)
LiDAR Control	N34°15'48.39044"	W119°05'26.95104"	40.521

Location Photo

NORTH

1063_2018_CA, 2, 20181712

1063_2018_CA, 3S, 20181712

WOOLPERT

GCP OBSERVATION LOG

Project Number	Project Name	Company	Field Operator
78654	So Cal Wildfire	Woolpert Inc.	EN/ZJH/KMF

Coordinate System	Hor. Datum	Ver. Datum	Zone	Geoid
NAD 1983 (Conus)	Albers Equal Area	NAVD88	Albers Equal Area	GEOID12B (Conus)

Station ID	Northing (m)	Easting (m)	Elevation (m)
1064_2018_CA	1499801.979	-2094717.085	35.677

Point Type	Latitude (Global)	Longitude (Global)	Ellipsoid Height (m)
LiDAR Control	N34°15'16.17895"	W119°08'51.76497"	-0.182

Location Photo

NORTH

1064_2018_CA, 2, 20181712

1064_2018_CA, 3N, 20181712

WOOLPERT

GCP OBSERVATION LOG

Project Number	Project Name	Company	Field Operator
78654	So Cal Wildfire	Woolpert Inc.	EN/ZJH/KMF

Coordinate System	Hor. Datum	Ver. Datum	Zone	Geoid
NAD 1983 (Conus)	Albers Equal Area	NAVD88	Albers Equal Area	GEOID12B (Conus)

Station ID	Northing (m)	Easting (m)	Elevation (m)
1066_2018_CA	1503100.137	-2100454.569	71.153

Point Type	Latitude (Global)	Longitude (Global)	Ellipsoid Height (m)
LiDAR Control	N34°16'14.61716"	W119°13'02.47564"	35.212

Location Photo

NORTH

1066_2018_CA, 2, 20180713

1066_2018_CA, 3N, 20180713

WOOLPERT

GCP OBSERVATION LOG

Project Number	Project Name	Company	Field Operator
78654	So Cal Wildfire	Woolpert Inc.	EN/ZJH/KMF

Coordinate System	Hor. Datum	Ver. Datum	Zone	Geoid
NAD 1983 (Conus)	Albers Equal Area	NAVD88	Albers Equal Area	GEOID12B (Conus)

Station ID	Northing (m)	Easting (m)	Elevation (m)
1067_2018_CA	1522936.892	-2105923.687	235.432

Point Type	Latitude (Global)	Longitude (Global)	Ellipsoid Height (m)
LiDAR Control	N34°25'51.58065"	W119°19'41.41159"	200.798

Location Photo

NORTH

1067_2018_CA, 2, 20180713

1067_2018_CA, 3N, 20180713

WOOLPERT

GCP OBSERVATION LOG

Project Number	Project Name	Company	Field Operator
78654	So Cal Wildfire	Woolpert Inc.	EN/ZJH/KMF

Coordinate System	Hor. Datum	Ver. Datum	Zone	Geoid
NAD 1983 (Conus)	Albers Equal Area	NAVD88	Albers Equal Area	GEOID12B (Conus)

Station ID	Northing (m)	Easting (m)	Elevation (m)
1069_2018_CA	1519280.020	-2111789.261	345.613

Point Type	Latitude (Global)	Longitude (Global)	Ellipsoid Height (m)
LiDAR Control	N34°23'11.43569"	W119°22'50.84566"	310.418

Location Photo

NORTH

1069_2018_CA, 2, 20180713

1069_2018_CA, 3NW, 20180713

WOOLPERT

GCP OBSERVATION LOG

Project Number	Project Name	Company	Field Operator
78654	So Cal Wildfire	Woolpert Inc.	EN/ZJH/KMF

Coordinate System	Hor. Datum	Ver. Datum	Zone	Geoid
NAD 1983 (Conus)	Albers Equal Area	NAVD88	Albers Equal Area	GEOID12B (Conus)

Station ID	Northing (m)	Easting (m)	Elevation (m)
1070A_2018_CA	1520340.541	-2114790.187	289.821

Point Type	Latitude (Global)	Longitude (Global)	Ellipsoid Height (m)
LiDAR Control	N34°23'21.00218"	W119°24'55.88252"	254.596

Location Photo

NORTH

1070A_2018_CA, 2, 20180713

1070A_2018_CA, 3SE, 20180713

WOOLPERT

GCP OBSERVATION LOG

Project Number	Project Name	Company	Field Operator
78654	So Cal Wildfire	Woolpert Inc.	EN/ZJH/KMF

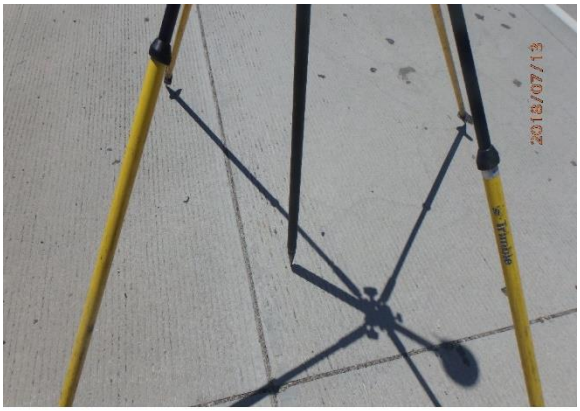
Coordinate System	Hor. Datum	Ver. Datum	Zone	Geoid
NAD 1983 (Conus)	Albers Equal Area	NAVD88	Albers Equal Area	GEOID12B (Conus)

Station ID	Northing (m)	Easting (m)	Elevation (m)
1071_2018_CA	1520197.871	-2120418.510	14.433

Point Type	Latitude (Global)	Longitude (Global)	Ellipsoid Height (m)
LiDAR Control	N34°22'32.29244"	W119°28'29.84764"	-21.162

Location Photo

NORTH



1071_2018_CA, 2, 20180713

1071_2018_CA, 3N, 20180713

WOOLPERT

GCP OBSERVATION LOG

Project Number	Project Name	Company	Field Operator
78654	So Cal Wildfire	Woolpert Inc.	EN/ZJH/KMF

Coordinate System	Hor. Datum	Ver. Datum	Zone	Geoid
NAD 1983 (Conus)	Albers Equal Area	NAVD88	Albers Equal Area	GEOID12B (Conus)

Station ID	Northing (m)	Easting (m)	Elevation (m)
1072_2018_CA	1592344.646	-2129432.433	589.016

Point Type	Latitude (Global)	Longitude (Global)	Ellipsoid Height (m)
LiDAR Control	N34°58'51.73115"	W119°45'58.80989"	555.398

Location Photo

NORTH

1072_2018_CA, 2, 20180724

1072_2018_CA, 3N, 20180724

WOOLPERT

GCP OBSERVATION LOG

Project Number	Project Name	Company	Field Operator
78654	So Cal Wildfire	Woolpert Inc.	EN/ZJH/KMF

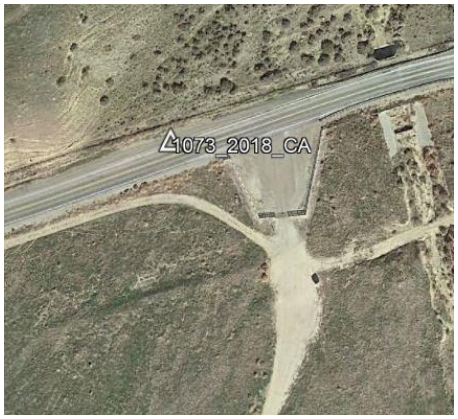
Coordinate System	Hor. Datum	Ver. Datum	Zone	Geoid
NAD 1983 (Conus)	Albers Equal Area	NAVD88	Albers Equal Area	GEOID12B (Conus)

Station ID	Northing (m)	Easting (m)	Elevation (m)
1073_2018_CA	1605232.650	-2143701.035	473.380

Point Type	Latitude (Global)	Longitude (Global)	Ellipsoid Height (m)
LiDAR Control	N35°03'39.34279"	W119°57'16.03162"	439.571

Location Photo

NORTH



1073_2018_CA, 2, 20180725

1073_2018_CA, 3N, 20180725

WOOLPERT

GCP OBSERVATION LOG

Project Number	Project Name	Company	Field Operator
78654	So Cal Wildfire	Woolpert Inc.	EN/ZJH/KMF

Coordinate System	Hor. Datum	Ver. Datum	Zone	Geoid
NAD 1983 (Conus)	Albers Equal Area	NAVD88	Albers Equal Area	GEOID12B (Conus)

Station ID	Northing (m)	Easting (m)	Elevation (m)
1074_2018_CA	1611277.768	-2151361.149	414.363

Point Type	Latitude (Global)	Longitude (Global)	Ellipsoid Height (m)
LiDAR Control	N35°05'46.07299"	W120°03'11.46523"	380.487

Location Photo

NORTH

1074_2018_CA, 2, 20180725

1074_2018_CA, 3N, 20180725

GCP OBSERVATION LOG

Project Number	Project Name	Company	Field Operator
78654	So Cal Wildfire	Woolpert Inc.	EN/ZJH/KMF

Coordinate System	Hor. Datum	Ver. Datum	Zone	Geoid
NAD 1983 (Conus)	Albers Equal Area	NAVD88	Albers Equal Area	GEOID12B (Conus)

Station ID	Northing (m)	Easting (m)	Elevation (m)
1075_2018_CA	1613802.088	-2154232.317	411.222

Point Type	Latitude (Global)	Longitude (Global)	Ellipsoid Height (m)
LiDAR Control	N35°06'41.54632"	W120°05'27.35489"	377.324

Location Photo

NORTH

1075_2018_CA, 2, 20180723

1075_2018_CA, 3W, 20180723

WOOLPERT

GCP OBSERVATION LOG

Project Number	Project Name	Company	Field Operator
78654	So Cal Wildfire	Woolpert Inc.	EN/ZJH/KMF

Coordinate System	Hor. Datum	Ver. Datum	Zone	Geoid
NAD 1983 (Conus)	Albers Equal Area	NAVD88	Albers Equal Area	GEOID12B (Conus)

Station ID	Northing (m)	Easting (m)	Elevation (m)
1076_2018_CA	1612724.383	-2157965.814	356.603

Point Type	Latitude (Global)	Longitude (Global)	Ellipsoid Height (m)
LiDAR Control	N35°05'37.83679"	W120°07'40.50903"	322.644

Location Photo

NORTH

1076_2018_CA, 2, 20180723

1076_2018_CA, 3N, 20180723

WOOLPERT

GCP OBSERVATION LOG

Project Number	Project Name	Company	Field Operator
78654	So Cal Wildfire	Woolpert Inc.	EN/ZJH/KMF

Coordinate System	Hor. Datum	Ver. Datum	Zone	Geoid
NAD 1983 (Conus)	Albers Equal Area	NAVD88	Albers Equal Area	GEOID12B (Conus)

Station ID	Northing (m)	Easting (m)	Elevation (m)
1077_2018_CA	1609576.470	-2163668.092	296.964

Point Type	Latitude (Global)	Longitude (Global)	Ellipsoid Height (m)
LiDAR Control	N35°03'13.68253"	W120°10'48.71267"	262.788

Location Photo

NORTH

1077_2018_CA, 2, 20180723

1077_2018_CA, 3S, 20180723

WOOLPERT

GCP OBSERVATION LOG

Project Number	Project Name	Company	Field Operator
78654	So Cal Wildfire	Woolpert Inc.	EN/ZJH/KMF

Coordinate System	Hor. Datum	Ver. Datum	Zone	Geoid
NAD 1983 (Conus)	Albers Equal Area	NAVD88	Albers Equal Area	GEOID12B (Conus)

Station ID	Northing (m)	Easting (m)	Elevation (m)
1079_2018_CA	1608193.865	-2169956.534	226.961

Point Type	Latitude (Global)	Longitude (Global)	Ellipsoid Height (m)
LiDAR Control	N35°01'39.64229"	W120°14'37.00257"	192.415

Location Photo

NORTH

1079_2018_CA, 2, 20180722

1079_2018_CA, 3N, 20180722

WOOLPERT

GCP OBSERVATION LOG

Project Number	Project Name	Company	Field Operator
78654	So Cal Wildfire	Woolpert Inc.	EN/ZJH/KMF

Coordinate System	Hor. Datum	Ver. Datum	Zone	Geoid
NAD 1983 (Conus)	Albers Equal Area	NAVD88	Albers Equal Area	GEOID12B (Conus)

Station ID	Northing (m)	Easting (m)	Elevation (m)
1081_2018_CA	1609271.934	-2175742.148	206.525
Point Type	**Latitude (Global)**	**Longitude (Global)**	**Ellipsoid Height (m)**
LiDAR Control	N35°01'26.16690"	W120°18'30.55046"	171.698

Location Photo

NORTH

1081_2018_CA, 2, 20180722

1081_2018_CA, 3N, 20180722

WOOLPERT

GCP OBSERVATION LOG

Project Number	Project Name	Company	Field Operator
78654	So Cal Wildfire	Woolpert Inc.	EN/ZJH/KMF

Coordinate System	Hor. Datum	Ver. Datum	Zone	Geoid
NAD 1983 (Conus)	Albers Equal Area	NAVD88	Albers Equal Area	GEOID12B (Conus)

Station ID	Northing (m)	Easting (m)	Elevation (m)
1082_2018_CA	1609455.459	-2180233.293	248.231

Point Type	Latitude (Global)	Longitude (Global)	Ellipsoid Height (m)
LiDAR Control	N35°00'55.28302"	W120°21'25.23991"	213.262

Location Photo

NORTH

1082_2018_CA, 2, 20180722

1082_2018_CA, 3N, 20180722

WOOLPERT

GCP OBSERVATION LOG

Project Number	Project Name	Company	Field Operator
78654	So Cal Wildfire	Woolpert Inc.	EN/ZJH/KMF

Coordinate System	Hor. Datum	Ver. Datum	Zone	Geoid
NAD 1983 (Conus)	Albers Equal Area	NAVD88	Albers Equal Area	GEOID12B (Conus)

Station ID	Northing (m)	Easting (m)	Elevation (m)
1083_2018_CA	1617651.671	-2182822.992	322.529

Point Type	Latitude (Global)	Longitude (Global)	Ellipsoid Height (m)
LiDAR Control	N35°04'49.21394"	W120°24'27.69806"	287.620

Location Photo

NORTH

1083_2018_CA, 2, 20180723

1083_2018_CA, 3W, 20180723

WOOLPERT

GCP OBSERVATION LOG

Project Number	Project Name	Company	Field Operator
78654	So Cal Wildfire	Woolpert Inc.	EN/ZJH/KMF

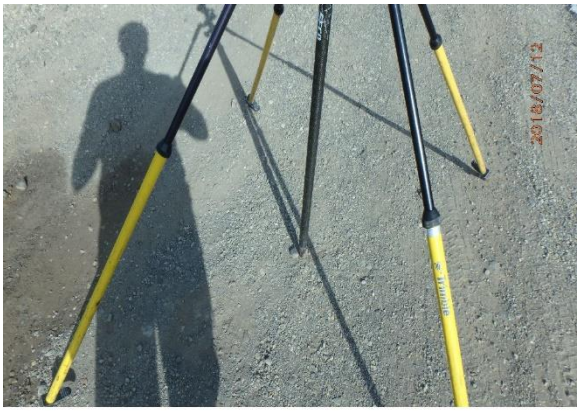
Coordinate System	Hor. Datum	Ver. Datum	Zone	Geoid
NAD 1983 (Conus)	Albers Equal Area	NAVD88	Albers Equal Area	GEOID12B (Conus)

Station ID	Northing (m)	Easting (m)	Elevation (m)
1084_2018_CA	1479461.178	-2079073.803	602.277

Point Type	Latitude (Global)	Longitude (Global)	Ellipsoid Height (m)
LiDAR Control	N34°06'41.19362"	W118°55'41.99063"	566.990

Location Photo

NORTH



1084_2018_CA, 2, 20180713

1084_2018_CA, 3W, 20180713

WOOLPERT

GCP OBSERVATION LOG

Project Number	Project Name	Company	Field Operator
78654	So Cal Wildfire	Woolpert Inc.	EN/ZJH/KMF

Coordinate System	Hor. Datum	Ver. Datum	Zone	Geoid
NAD 1983 (Conus)	Albers Equal Area	NAVD88	Albers Equal Area	GEOID12B (Conus)

Station ID	Northing (m)	Easting (m)	Elevation (m)
1085_2018_CA	1506407.617	-2050894.082	258.848

Point Type	Latitude (Global)	Longitude (Global)	Ellipsoid Height (m)
LiDAR Control	N34°24'19.79917"	W118°41'56.15011"	224.522

Location Photo

NORTH

1085_2018_CA, 2, 20180803

1085_2018_CA, 3N, 20180803

WOOLPERT

GCP OBSERVATION LOG

Project Number	Project Name	Company	Field Operator
78654	So Cal Wildfire	Woolpert Inc.	EN/ZJH/KMF

Coordinate System	Hor. Datum	Ver. Datum	Zone	Geoid
NAD 1983 (Conus)	Albers Equal Area	NAVD88	Albers Equal Area	GEOID12B (Conus)

Station ID	Northing (m)	Easting (m)	Elevation (m)
1087_2018_CA	1510099.309	-2056876.249	231.047

Point Type	Latitude (Global)	Longitude (Global)	Ellipsoid Height (m)
LiDAR Control	N34°25'29.63251"	W118°46'20.07832"	196.702

Location Photo

NORTH

1087_2018_CA, 2, 20180803

1087_2018_CA, 3N, 20180803

WOOLPERT

GCP OBSERVATION LOG

Project Number	Project Name	Company	Field Operator
78654	So Cal Wildfire	Woolpert Inc.	EN/ZJH/KMF

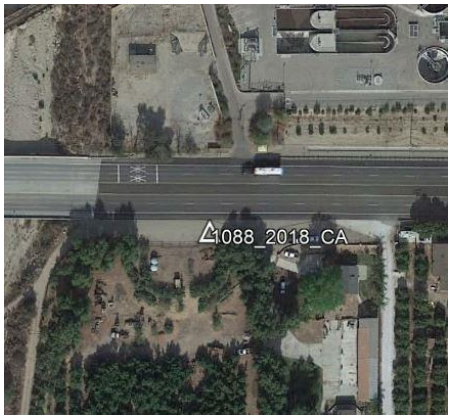
Coordinate System	Hor. Datum	Ver. Datum	Zone	Geoid
NAD 1983 (Conus)	Albers Equal Area	NAVD88	Albers Equal Area	GEOID12B (Conus)

Station ID	Northing (m)	Easting (m)	Elevation (m)
1088_2018_CA	1508630.545	-2062276.796	183.600

Point Type	Latitude (Global)	Longitude (Global)	Ellipsoid Height (m)
LiDAR Control	N34°24'02.38288"	W118°49'33.35860"	149.018

Location Photo

NORTH



1088_2018_CA, 2, 20180803

1088_2018_CA, 3N, 20180803

WOOLPERT

GCP OBSERVATION LOG

Project Number	Project Name	Company	Field Operator
78654	So Cal Wildfire	Woolpert Inc.	EN/ZJH/KMF

Coordinate System	Hor. Datum	Ver. Datum	Zone	Geoid
NAD 1983 (Conus)	Albers Equal Area	NAVD88	Albers Equal Area	GEOID12B (Conus)

Station ID	Northing (m)	Easting (m)	Elevation (m)
1090_2018_CA	1518747.125	-2068650.981	717.025

Point Type	Latitude (Global)	Longitude (Global)	Ellipsoid Height (m)
LiDAR Control	N34°28'29.78307"	W118°55'12.98682"	683.256

Location Photo

NORTH

1090_2018_CA, 2, 20180803

1090_2018_CA, 3S, 20180803

WOOLPERT

GCP OBSERVATION LOG

Project Number	Project Name	Company	Field Operator
78654	So Cal Wildfire	Woolpert Inc.	EN/ZJH/KMF

Coordinate System	Hor. Datum	Ver. Datum	Zone	Geoid
NAD 1983 (Conus)	Albers Equal Area	NAVD88	Albers Equal Area	GEOID12B (Conus)

Station ID	Northing (m)	Easting (m)	Elevation (m)
1091_2018_CA	1522419.988	-2105632.657	192.079
Point Type	**Latitude (Global)**	**Longitude (Global)**	**Ellipsoid Height (m)**
LiDAR Control	N34°25'37.71423"	W119°19'25.30791"	157.397

Location Photo

NORTH

1091_2018_CA, 2, 20180806

1091_2018_CA, 3N, 20180806

WOOLPERT

GCP OBSERVATION LOG

Project Number	Project Name	Company	Field Operator
78654	So Cal Wildfire	Woolpert Inc.	EN/ZJH/KMF

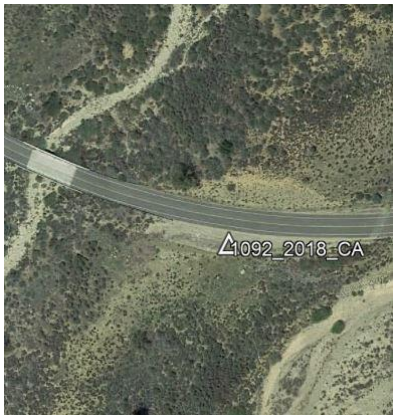
Coordinate System	Hor. Datum	Ver. Datum	Zone	Geoid
NAD 1983 (Conus)	Albers Equal Area	NAVD88	Albers Equal Area	GEOID12B (Conus)

Station ID	Northing (m)	Easting (m)	Elevation (m)
1092_2018_CA	1541716.997	-2102976.006	1253.857

Point Type	Latitude (Global)	Longitude (Global)	Ellipsoid Height (m)
LiDAR Control	N34°36'01.08931"	W119°20'48.85351"	1221.176

Location Photo

NORTH



1092_2018_CA, 2, 20180809

1092_2018_CA, 3W, 20180809

GCP OBSERVATION LOG

Project Number	Project Name	Company	Field Operator
78654	So Cal Wildfire	Woolpert Inc.	EN/ZJH/KMF

Coordinate System	Hor. Datum	Ver. Datum	Zone	Geoid
NAD 1983 (Conus)	Albers Equal Area	NAVD88	Albers Equal Area	GEOID12B (Conus)

Station ID	Northing (m)	Easting (m)	Elevation (m)
1093_2018_CA	1540155.424	-2099142.877	1187.805

Point Type	Latitude (Global)	Longitude (Global)	Ellipsoid Height (m)
LiDAR Control	N34°35'42.30960"	W119°18'06.73077"	1155.168

Location Photo

NORTH

1093_2018_CA, 2, 20180809

1093_2018_CA, 3N, 20180809

WOOLPERT

GCP OBSERVATION LOG

Project Number	Project Name	Company	Field Operator
78654	So Cal Wildfire	Woolpert Inc.	EN/ZJH/KMF

Coordinate System	Hor. Datum	Ver. Datum	Zone	Geoid
NAD 1983 (Conus)	Albers Equal Area	NAVD88	Albers Equal Area	GEOID12B (Conus)

Station ID	Northing (m)	Easting (m)	Elevation (m)
1094_2018_CA	1535009.670	-2096168.770	1042.709

Point Type	Latitude (Global)	Longitude (Global)	Ellipsoid Height (m)
LiDAR Control	N34°33'24.82919"	W119°15'23.24684"	1009.822

Location Photo

NORTH

1094_2018_CA, 2, 20180804

1094_2018_CA, 3N, 20180804

WOOLPERT

GCP OBSERVATION LOG

Project Number	Project Name	Company	Field Operator
78654	So Cal Wildfire	Woolpert Inc.	EN/ZJH/KMF

Coordinate System	Hor. Datum	Ver. Datum	Zone	Geoid
NAD 1983 (Conus)	Albers Equal Area	NAVD88	Albers Equal Area	GEOID12B (Conus)

Station ID	Northing (m)	Easting (m)	Elevation (m)
1095_2018_CA	1531719.582	-2092460.497	1034.165

Point Type	Latitude (Global)	Longitude (Global)	Ellipsoid Height (m)
LiDAR Control	N34°32'10.95913"	W119°12'29.50183"	1001.164

Location Photo

NORTH

1095_2018_CA, 2, 20180804

1095_2018_CA, 3W, 20180804

WOOLPERT

GCP OBSERVATION LOG

Project Number	Project Name	Company	Field Operator
78654	So Cal Wildfire	Woolpert Inc.	EN/ZJH/KMF

Coordinate System	Hor. Datum	Ver. Datum	Zone	Geoid
NAD 1983 (Conus)	Albers Equal Area	NAVD88	Albers Equal Area	GEOID12B (Conus)

Station ID	Northing (m)	Easting (m)	Elevation (m)
1096_2018_CA	1532354.736	-2089559.236	1050.841

Point Type	Latitude (Global)	Longitude (Global)	Ellipsoid Height (m)
LiDAR Control	N34°32'53.36808"	W119°10'44.26439"	1017.983

Location Photo

NORTH

1096_2018_CA, 2, 20180804

1096_2018_CA, 3N, 20180804

WOOLPERT

GCP OBSERVATION LOG

Project Number	Project Name	Company	Field Operator
78654	So Cal Wildfire	Woolpert Inc.	EN/ZJH/KMF

Coordinate System	Hor. Datum	Ver. Datum	Zone	Geoid
NAD 1983 (Conus)	Albers Equal Area	NAVD88	Albers Equal Area	GEOID12B (Conus)

Station ID	Northing (m)	Easting (m)	Elevation (m)
1097_2018_CA	1519300.914	-2087343.561	511.438

Point Type	Latitude (Global)	Longitude (Global)	Ellipsoid Height (m)
LiDAR Control	N34°26'22.73491"	W119°07'14.90165"	477.230

Location Photo

NORTH

1097_2018_CA, 2, 20180804

1097_2018_CA, 3E, 20180804

WOOLPERT

GCP OBSERVATION LOG

Project Number	Project Name	Company	Field Operator
78654	So Cal Wildfire	Woolpert Inc.	EN/ZJH/KMF

Coordinate System	Hor. Datum	Ver. Datum	Zone	Geoid
NAD 1983 (Conus)	Albers Equal Area	NAVD88	Albers Equal Area	GEOID12B (Conus)

Station ID	Northing (m)	Easting (m)	Elevation (m)
1098_2018_CA	1517282.715	-2084973.851	292.645

Point Type	Latitude (Global)	Longitude (Global)	Ellipsoid Height (m)
LiDAR Control	N34°25'38.03630"	W119°05'24.91338"	258.277

Location Photo

NORTH

1098_2018_CA, 2, 20180804

1098_2018_CA, 3N, 20180804

WOOLPERT

GCP OBSERVATION LOG

Project Number	Project Name	Company	Field Operator
78654	So Cal Wildfire	Woolpert Inc.	EN/ZJH/KMF

Coordinate System	Hor. Datum	Ver. Datum	Zone	Geoid
NAD 1983 (Conus)	Albers Equal Area	NAVD88	Albers Equal Area	GEOID12B (Conus)

Station ID	Northing (m)	Easting (m)	Elevation (m)
1099_2018_CA	1509474.453	-2080761.219	103.027

Point Type	Latitude (Global)	Longitude (Global)	Ellipsoid Height (m)
LiDAR Control	N34°22'06.58502"	W119°01'29.51156"	67.990

Location Photo

NORTH

1099_2018_CA, 2, 20180804

1099_2018_CA, 3N, 20180804

WOOLPERT

GCP OBSERVATION LOG

Project Number	Project Name	Company	Field Operator
78654	So Cal Wildfire	Woolpert Inc.	EN/ZJH/KMF

Coordinate System	Hor. Datum	Ver. Datum	Zone	Geoid
NAD 1983 (Conus)	Albers Equal Area	NAVD88	Albers Equal Area	GEOID12B (Conus)

Station ID	Northing (m)	Easting (m)	Elevation (m)
1100_2018_CA	1563437.812	-2084013.561	2476.125

Point Type	Latitude (Global)	Longitude (Global)	Ellipsoid Height (m)
LiDAR Control	N34°49'47.30192"	W119°12'08.58415"	2444.867

Location Photo

NORTH

1100_2018_CA, 2, 20180808

1100_2018_CA, 3S, 20180808

WOOLPERT

GCP OBSERVATION LOG

Project Number	Project Name	Company	Field Operator
78654	So Cal Wildfire	Woolpert Inc.	EN/ZJH/KMF

Coordinate System	Hor. Datum	Ver. Datum	Zone	Geoid
NAD 1983 (Conus)	Albers Equal Area	NAVD88	Albers Equal Area	GEOID12B (Conus)

Station ID	Northing (m)	Easting (m)	Elevation (m)
1101_2018_CA	1559959.095	-2077778.742	2542.326

Point Type	Latitude (Global)	Longitude (Global)	Ellipsoid Height (m)
LiDAR Control	N34°48'47.08529"	W119°07'35.19038"	2511.305

Location Photo

NORTH

1101_2018_CA, 2, 20180808

1101_2018_CA, 3N, 20180808

WOOLPERT

GCP OBSERVATION LOG

Project Number	Project Name	Company	Field Operator
78654	So Cal Wildfire	Woolpert Inc.	EN/ZJH/KMF

Coordinate System	Hor. Datum	Ver. Datum	Zone	Geoid
NAD 1983 (Conus)	Albers Equal Area	NAVD88	Albers Equal Area	GEOID12B (Conus)

Station ID	Northing (m)	Easting (m)	Elevation (m)
1102_2018_CA	1544747.190	-2098679.825	2178.661

Point Type	Latitude (Global)	Longitude (Global)	Ellipsoid Height (m)
LiDAR Control	N34°38'09.30963"	W119°18'33.07153"	2146.347

Location Photo

NORTH

1102_2018_CA, 2, 20180809

1102_2018_CA, 3S, 20180809

WOOLPERT

GCP OBSERVATION LOG

Project Number	Project Name	Company	Field Operator
78654	So Cal Wildfire	Woolpert Inc.	EN/ZJH/KMF

Coordinate System	Hor. Datum	Ver. Datum	Zone	Geoid
NAD 1983 (Conus)	Albers Equal Area	NAVD88	Albers Equal Area	GEOID12B (Conus)

Station ID	Northing (m)	Easting (m)	Elevation (m)
1103_2018_CA	1544150.077	-2064228.657	1189.403

Point Type	Latitude (Global)	Longitude (Global)	Ellipsoid Height (m)
LiDAR Control	N34°42'17.82563"	W118°56'23.23914"	1157.877

Location Photo

NORTH

1103_2018_CA, 2, 20180807

1103_2018_CA, 3W, 20180807

WOOLPERT

GCP OBSERVATION LOG

Project Number	Project Name	Company	Field Operator
78654	So Cal Wildfire	Woolpert Inc.	EN/ZJH/KMF

Coordinate System	Hor. Datum	Ver. Datum	Zone	Geoid
NAD 1983 (Conus)	Albers Equal Area	NAVD88	Albers Equal Area	GEOID12B (Conus)

Station ID	Northing (m)	Easting (m)	Elevation (m)
1104_2018_CA	1545719.687	-2060724.768	1258.431

Point Type	Latitude (Global)	Longitude (Global)	Ellipsoid Height (m)
LiDAR Control	N34°43'33.82077"	W118°54'23.27485"	1226.903

Location Photo

NORTH

1104_2018_CA, 2, 20180807

1104_2018_CA, 3N, 20180807

WOOLPERT

GCP OBSERVATION LOG

Project Number	Project Name	Company	Field Operator
78654	So Cal Wildfire	Woolpert Inc.	EN/ZJH/KMF

Coordinate System	Hor. Datum	Ver. Datum	Zone	Geoid
NAD 1983 (Conus)	Albers Equal Area	NAVD88	Albers Equal Area	GEOID12B (Conus)

Station ID	Northing (m)	Easting (m)	Elevation (m)
1105_2018_CA	1542043.870	-2068217.570	2031.288

Point Type	Latitude (Global)	Longitude (Global)	Ellipsoid Height (m)
LiDAR Control	N34°40'41.28821"	W118°58'36.70139"	1999.762

Location Photo

NORTH

1105_2018_CA, 2, 20180807

1105_2018_CA, 3N, 20180807

WOOLPERT

GCP OBSERVATION LOG

Project Number	Project Name	Company	Field Operator
78654	So Cal Wildfire	Woolpert Inc.	EN/ZJH/KMF

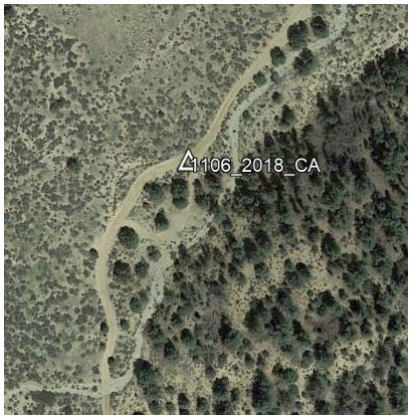
Coordinate System	Hor. Datum	Ver. Datum	Zone	Geoid
NAD 1983 (Conus)	Albers Equal Area	NAVD88	Albers Equal Area	GEOID12B (Conus)

Station ID	Northing (m)	Easting (m)	Elevation (m)
1106_2018_CA	1550916.359	-2071859.983	1535.103

Point Type	Latitude (Global)	Longitude (Global)	Ellipsoid Height (m)
LiDAR Control	N34°44'50.41830"	W119°02'21.10220"	1503.842

Location Photo

NORTH



1106_2018_CA, 2, 20180807

1106_2018_CA, 3N, 20180807

WOOLPERT

GCP OBSERVATION LOG

Project Number	Project Name	Company	Field Operator
78654	So Cal Wildfire	Woolpert Inc.	EN/ZJH/KMF

Coordinate System	Hor. Datum	Ver. Datum	Zone	Geoid
NAD 1983 (Conus)	Albers Equal Area	NAVD88	Albers Equal Area	GEOID12B (Conus)

Station ID	Northing (m)	Easting (m)	Elevation (m)
1107_2018_CA	1551977.494	-2074768.197	1551.846

Point Type	Latitude (Global)	Longitude (Global)	Ellipsoid Height (m)
LiDAR Control	N34°45'01.08392"	W119°04'23.11896"	1520.553

Location Photo

NORTH

1107_2018_CA, 2, 20180807

1107_2018_CA, 3S, 20180807

WOOLPERT

GCP OBSERVATION LOG

Project Number	Project Name	Company	Field Operator
78654	So Cal Wildfire	Woolpert Inc.	EN/ZJH/KMF

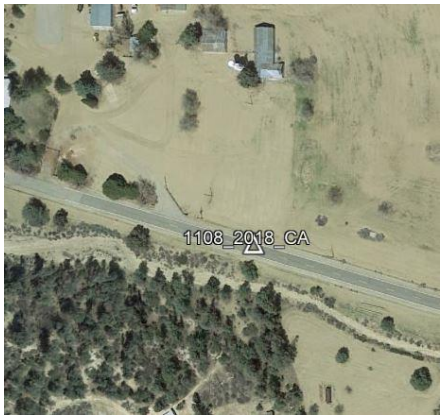
Coordinate System	Hor. Datum	Ver. Datum	Zone	Geoid
NAD 1983 (Conus)	Albers Equal Area	NAVD88	Albers Equal Area	GEOID12B (Conus)

Station ID	Northing (m)	Easting (m)	Elevation (m)
1108_2018_CA	1553006.922	-2080080.076	1659.840

Point Type	Latitude (Global)	Longitude (Global)	Ellipsoid Height (m)
LiDAR Control	N34°44'52.08869"	W119°07'57.32442"	1628.474

Location Photo

NORTH



1108_2018_CA, 2, 20180807

1108_2018_CA, 3N, 20180807

WOOLPERT

GCP OBSERVATION LOG

Project Number	Project Name	Company	Field Operator
78654	So Cal Wildfire	Woolpert Inc.	EN/ZJH/KMF

Coordinate System	Hor. Datum	Ver. Datum	Zone	Geoid
NAD 1983 (Conus)	Albers Equal Area	NAVD88	Albers Equal Area	GEOID12B (Conus)

Station ID	Northing (m)	Easting (m)	Elevation (m)
1109_2018_CA	1551537.848	-2083652.654	1513.955

Point Type	Latitude (Global)	Longitude (Global)	Ellipsoid Height (m)
LiDAR Control	N34°43'38.47019"	W119°10'00.70286"	1482.406

Location Photo

NORTH

1109_2018_CA, 2, 20180807

1109_2018_CA, 3W, 20180807

GCP OBSERVATION LOG

Project Number	Project Name	Company	Field Operator
78654	So Cal Wildfire	Woolpert Inc.	EN/ZJH/KMF

Coordinate System	Hor. Datum	Ver. Datum	Zone	Geoid
NAD 1983 (Conus)	Albers Equal Area	NAVD88	Albers Equal Area	GEOID12B (Conus)

Station ID	Northing (m)	Easting (m)	Elevation (m)
1110_2018_CA	1563449.156	-2086084.094	2262.678

Point Type	Latitude (Global)	Longitude (Global)	Ellipsoid Height (m)
LiDAR Control	N34°49'31.54134"	W119°13'28.41791"	2231.304

Location Photo

NORTH

1110_2018_CA, 3E, 20180808

1110_2018_CA, 3N, 20180808

WOOLPERT

GCP OBSERVATION LOG

Project Number	Project Name	Company	Field Operator
78654	So Cal Wildfire	Woolpert Inc.	EN/ZJH/KMF

Coordinate System	Hor. Datum	Ver. Datum	Zone	Geoid
NAD 1983 (Conus)	Albers Equal Area	NAVD88	Albers Equal Area	GEOID12B (Conus)

Station ID	Northing (m)	Easting (m)	Elevation (m)
1112_2018_CA	1543911.255	-2055502.739	979.150
Point Type	**Latitude (Global)**	**Longitude (Global)**	**Ellipsoid Height (m)**
LiDAR Control	N34°43'17.36266"	W118°50'45.21203"	947.294

Location Photo

NORTH

1112_2018_CA, 2, 20180807

1112_2018_CA, 3N, 20180807

WOOLPERT

GCP OBSERVATION LOG

Project Number	Project Name	Company	Field Operator
78654	So Cal Wildfire	Woolpert Inc.	EN/ZJH/KMF

Coordinate System	Hor. Datum	Ver. Datum	Zone	Geoid
NAD 1983 (Conus)	Albers Equal Area	NAVD88	Albers Equal Area	GEOID12B (Conus)

Station ID	Northing (m)	Easting (m)	Elevation (m)
1114_2018_CA	1567530.902	-2103982.454	978.603

Point Type	Latitude (Global)	Longitude (Global)	Ellipsoid Height (m)
LiDAR Control	N34°49'18.99923"	W119°25'36.70338"	946.030

Location Photo

NORTH

1114_2018_CA, 2, 20180808

1114_2018_CA, 3S, 20180808

WOOLPERT

GCP OBSERVATION LOG

Project Number	Project Name	Company	Field Operator
78654	So Cal Wildfire	Woolpert Inc.	EN/ZJH/KMF

Coordinate System	Hor. Datum	Ver. Datum	Zone	Geoid
NAD 1983 (Conus)	Albers Equal Area	NAVD88	Albers Equal Area	GEOID12B (Conus)

Station ID	Northing (m)	Easting (m)	Elevation (m)
1116_2018_CA	1567850.014	-2098068.530	1115.967

Point Type	Latitude (Global)	Longitude (Global)	Ellipsoid Height (m)
LiDAR Control	N34°50'15.34056"	W119°21'52.17965"	1083.717

Location Photo

NORTH

1116_2018_CA, 2, 20180808

1116_2018_CA, 3W, 20180808

WOOLPERT

GCP OBSERVATION LOG

Project Number	Project Name	Company	Field Operator
78654	So Cal Wildfire	Woolpert Inc.	EN/ZJH/KMF

Coordinate System	Hor. Datum	Ver. Datum	Zone	Geoid
NAD 1983 (Conus)	Albers Equal Area	NAVD88	Albers Equal Area	GEOID12B (Conus)

Station ID	Northing (m)	Easting (m)	Elevation (m)
1118_2018_CA	1566979.969	-2092095.164	1290.939

Point Type	Latitude (Global)	Longitude (Global)	Ellipsoid Height (m)
LiDAR Control	N34°50'34.90225"	W119°17'53.81874"	1259.081

Location Photo

NORTH

1118_2018_CA, 2, 20180808

1118_2018_CA, 3W, 20180808

WOOLPERT

GCP OBSERVATION LOG

Project Number	Project Name	Company	Field Operator
78654	So Cal Wildfire	Woolpert Inc.	EN/ZJH/KMF

Coordinate System	Hor. Datum	Ver. Datum	Zone	Geoid
NAD 1983 (Conus)	Albers Equal Area	NAVD88	Albers Equal Area	GEOID12B (Conus)

Station ID	Northing (m)	Easting (m)	Elevation (m)
1119_2018_CA	1590040.770	-2142528.718	1350.498

Point Type	Latitude (Global)	Longitude (Global)	Ellipsoid Height (m)
LiDAR Control	N34°55'55.33985"	W119°54'00.36289"	1317.103

Location Photo

NORTH

1119_2018_CA, 2, 20180724

1119_2018_CA, 3N, 20180724

WOOLPERT

GCP OBSERVATION LOG

Project Number	Project Name	Company	Field Operator
78654	So Cal Wildfire	Woolpert Inc.	EN/ZJH/KMF

Coordinate System	Hor. Datum	Ver. Datum	Zone	Geoid
NAD 1983 (Conus)	Albers Equal Area	NAVD88	Albers Equal Area	GEOID12B (Conus)

Station ID	Northing (m)	Easting (m)	Elevation (m)
1120_2018_CA	1587099.268	-2123675.726	648.250

Point Type	Latitude (Global)	Longitude (Global)	Ellipsoid Height (m)
LiDAR Control	N34°56'53.95588"	W119°41'25.53366"	614.667

Location Photo

NORTH

1120_2018_CA, 2, 20180808

1120_2018_CA, 3N, 20180808

WOOLPERT

GCP OBSERVATION LOG

Project Number	Project Name	Company	Field Operator
78654	So Cal Wildfire	Woolpert Inc.	EN/ZJH/KMF

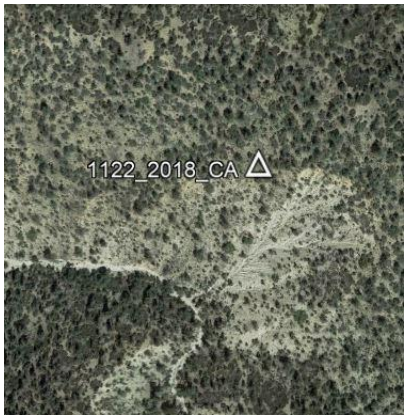
Coordinate System	Hor. Datum	Ver. Datum	Zone	Geoid
NAD 1983 (Conus)	Albers Equal Area	NAVD88	Albers Equal Area	GEOID12B (Conus)

Station ID	Northing (m)	Easting (m)	Elevation (m)
1122_2018_CA	1556328.821	-2084511.405	1413.067

Point Type	Latitude (Global)	Longitude (Global)	Ellipsoid Height (m)
LiDAR Control	N34°46'01.42643"	W119°11'19.59928"	1381.663

Location Photo

NORTH



1122_2018_CA, 2, 20180808

1122_2018_CA, 3N, 20180808

WOOLPERT

GCP OBSERVATION LOG

Project Number	Project Name	Company	Field Operator
78654	So Cal Wildfire	Woolpert Inc.	EN/ZJH/KMF

Coordinate System	Hor. Datum	Ver. Datum	Zone	Geoid
NAD 1983 (Conus)	Albers Equal Area	NAVD88	Albers Equal Area	GEOID12B (Conus)

Station ID	Northing (m)	Easting (m)	Elevation (m)
1124_2018_CA	1550802.108	-2079893.050	1530.174

Point Type	Latitude (Global)	Longitude (Global)	Ellipsoid Height (m)
LiDAR Control	N34°43'44.66958"	W119°07'29.07031"	1498.728

Location Photo

NORTH

1124_2018_CA, 2, 20180808

1124_2018_CA, 3N, 20180808

WOOLPERT

GCP OBSERVATION LOG

Project Number	Project Name	Company	Field Operator
78654	So Cal Wildfire	Woolpert Inc.	EN/ZJH/KMF

Coordinate System	Hor. Datum	Ver. Datum	Zone	Geoid
NAD 1983 (Conus)	Albers Equal Area	NAVD88	Albers Equal Area	GEOID12B (Conus)

Station ID	Northing (m)	Easting (m)	Elevation (m)
1126_2018_CA	1522768.534	-2108217.871	206.226

Point Type	Latitude (Global)	Longitude (Global)	Ellipsoid Height (m)
LiDAR Control	N34°25'28.36404"	W119°21'07.64692"	171.507

Location Photo

NORTH

1126_2018_CA, 2, 20180806

1126_2018_CA, 3W, 20180806

WOOLPERT

GCP OBSERVATION LOG

Project Number	Project Name	Company	Field Operator
78654	So Cal Wildfire	Woolpert Inc.	EN/ZJH/KMF

Coordinate System	Hor. Datum	Ver. Datum	Zone	Geoid
NAD 1983 (Conus)	Albers Equal Area	NAVD88	Albers Equal Area	GEOID12B (Conus)

Station ID	Northing (m)	Easting (m)	Elevation (m)
1127_2018_CA	1547869.176	-2104717.955	1589.618

Point Type	Latitude (Global)	Longitude (Global)	Ellipsoid Height (m)
LiDAR Control	N34°38'59.51698"	W119°22'54.98712"	1557.101

Location Photo

NORTH

1127_2018_CA, 2, 20180809

1127_2018_CA, 3W, 20180809

WOOLPERT

GCP OBSERVATION LOG

Project Number	Project Name	Company	Field Operator
78654	So Cal Wildfire	Woolpert Inc.	EN/ZJH/KMF

Coordinate System	Hor. Datum	Ver. Datum	Zone	Geoid
NAD 1983 (Conus)	Albers Equal Area	NAVD88	Albers Equal Area	GEOID12B (Conus)

Station ID	Northing (m)	Easting (m)	Elevation (m)
1129_2018_CA	1577195.501	-1926454.352	867.823

Point Type	Latitude (Global)	Longitude (Global)	Ellipsoid Height (m)
LiDAR Control	N35°16'40.24611"	W117°32'38.45205"	836.778

Location Photo

NORTH

1129_2018_CA, 2, 20180719

1129_2018_CA, 3N, 20180719

WOOLPERT

GCP OBSERVATION LOG

Project Number	Project Name	Company	Field Operator
78654	So Cal Wildfire	Woolpert Inc.	EN/ZJH/KMF

Coordinate System	Hor. Datum	Ver. Datum	Zone	Geoid
NAD 1983 (Conus)	Albers Equal Area	NAVD88	Albers Equal Area	GEOID12B (Conus)

Station ID	Northing (m)	Easting (m)	Elevation (m)
1131_2018_CA	1547868.145	-1939042.034	766.139

Point Type	Latitude (Global)	Longitude (Global)	Ellipsoid Height (m)
LiDAR Control	N34°59'49.80394"	W117°36'24.10301"	734.476

Location Photo

NORTH

1131_2018_CA, 2, 20180717

1131_2018_CA, 3N, 20180717

WOOLPERT

GCP OBSERVATION LOG

Project Number	Project Name	Company	Field Operator
78654	So Cal Wildfire	Woolpert Inc.	EN/ZJH/KMF

Coordinate System	Hor. Datum	Ver. Datum	Zone	Geoid
NAD 1983 (Conus)	Albers Equal Area	NAVD88	Albers Equal Area	GEOID12B (Conus)

Station ID	Northing (m)	Easting (m)	Elevation (m)
1132_2018_CA	1589725.081	-1934262.052	1045.132

Point Type	Latitude (Global)	Longitude (Global)	Ellipsoid Height (m)
LiDAR Control	N35°22'16.30567"	W117°39'35.04607"	1014.318

Location Photo

NORTH

1132_2018_CA, 2, 20180718

1132_2018_CA, 3S, 20180718

WOOLPERT

GCP OBSERVATION LOG

Project Number	Project Name	Company	Field Operator
78654	So Cal Wildfire	Woolpert Inc.	EN/ZJH/KMF

Coordinate System	Hor. Datum	Ver. Datum	Zone	Geoid
NAD 1983 (Conus)	Albers Equal Area	NAVD88	Albers Equal Area	GEOID12B (Conus)

Station ID	Northing (m)	Easting (m)	Elevation (m)
1133_2018_CA	1587962.357	-1930705.845	1088.434

Point Type	Latitude (Global)	Longitude (Global)	Ellipsoid Height (m)
LiDAR Control	N35°21'46.89173"	W117°37'00.69886"	1057.630

Location Photo

NORTH

1133_2018_CA, 2, 20180718

1133_2018_CA, 3N, 20180718

WOOLPERT

GCP OBSERVATION LOG

Project Number	Project Name	Company	Field Operator
78654	So Cal Wildfire	Woolpert Inc.	EN/ZJH/KMF

Coordinate System	Hor. Datum	Ver. Datum	Zone	Geoid
NAD 1983 (Conus)	Albers Equal Area	NAVD88	Albers Equal Area	GEOID12B (Conus)

Station ID	Northing (m)	Easting (m)	Elevation (m)
1135_2018_CA	1549600.024	-1944807.851	742.232

Point Type	Latitude (Global)	Longitude (Global)	Ellipsoid Height (m)
LiDAR Control	N35°00'02.20973"	W117°40'23.04431"	710.522

Location Photo

NORTH

1135_2018_CA, 2, 20180717

1135_2018_CA, 3N, 20180717

WOOLPERT

GCP OBSERVATION LOG

Project Number	Project Name	Company	Field Operator
78654	So Cal Wildfire	Woolpert Inc.	EN/ZJH/KMF

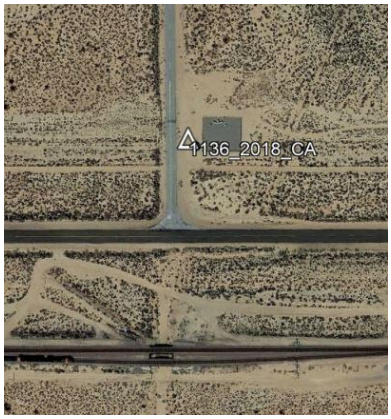
Coordinate System	Hor. Datum	Ver. Datum	Zone	Geoid
NAD 1983 (Conus)	Albers Equal Area	NAVD88	Albers Equal Area	GEOID12B (Conus)

Station ID	Northing (m)	Easting (m)	Elevation (m)
1136_2018_CA	1551029.447	-1950598.607	713.217

Point Type	Latitude (Global)	Longitude (Global)	Ellipsoid Height (m)
LiDAR Control	N35°00'04.82028"	W117°44'20.24505"	681.425

Location Photo

NORTH



1136_2018_CA, 2, 20180717

1136_2018_CA, 3N, 20180717

WOOLPERT

GCP OBSERVATION LOG

Project Number	Project Name	Company	Field Operator
78654	So Cal Wildfire	Woolpert Inc.	EN/ZJH/KMF

Coordinate System	Hor. Datum	Ver. Datum	Zone	Geoid
NAD 1983 (Conus)	Albers Equal Area	NAVD88	Albers Equal Area	GEOID12B (Conus)

Station ID	Northing (m)	Easting (m)	Elevation (m)
1137_2018_CA	1552685.598	-1956306.913	701.429

Point Type	Latitude (Global)	Longitude (Global)	Ellipsoid Height (m)
LiDAR Control	N35°00'15.00511"	W117°48'16.30777"	669.603

Location Photo

NORTH

1137_2018_CA, 2, 20180717

1137_2018_CA, 3N, 20180717

WOOLPERT

GCP OBSERVATION LOG

Project Number	Project Name	Company	Field Operator
78654	So Cal Wildfire	Woolpert Inc.	EN/ZJH/KMF

Coordinate System	Hor. Datum	Ver. Datum	Zone	Geoid
NAD 1983 (Conus)	Albers Equal Area	NAVD88	Albers Equal Area	GEOID12B (Conus)

Station ID	Northing (m)	Easting (m)	Elevation (m)
1138_2018_CA	1515660.762	-2070111.995	179.046

Point Type	Latitude (Global)	Longitude (Global)	Ellipsoid Height (m)
LiDAR Control	N34°26'42.05958"	W118°55'39.89878"	144.869

Location Photo

NORTH

1138_2018_CA, 2, 20180803

1138_2018_CA, 3N, 20180803

WOOLPERT

GCP OBSERVATION LOG

Project Number	Project Name	Company	Field Operator
78654	So Cal Wildfire	Woolpert Inc.	EN/ZJH/KMF

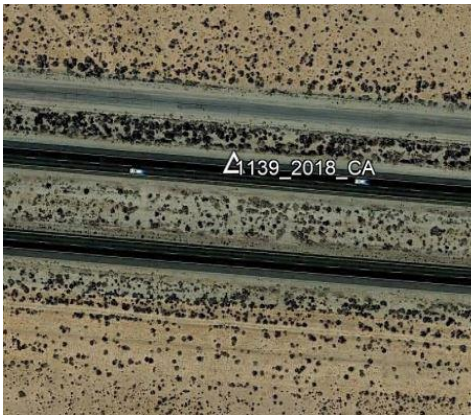
Coordinate System	Hor. Datum	Ver. Datum	Zone	Geoid
NAD 1983 (Conus)	Albers Equal Area	NAVD88	Albers Equal Area	GEOID12B (Conus)

Station ID	Northing (m)	Easting (m)	Elevation (m)
1139_2018_CA	1554598.608	-1961996.783	705.664

Point Type	Latitude (Global)	Longitude (Global)	Ellipsoid Height (m)
LiDAR Control	N35°00'33.24007"	W117°52'14.00429"	673.857

Location Photo

NORTH



1139_2018_CA, 2, 20180717

1139_2018_CA, 3N, 20180717

WOOLPERT

GCP OBSERVATION LOG

Project Number	Project Name	Company	Field Operator
78654	So Cal Wildfire	Woolpert Inc.	EN/ZJH/KMF

Coordinate System	Hor. Datum	Ver. Datum	Zone	Geoid
NAD 1983 (Conus)	Albers Equal Area	NAVD88	Albers Equal Area	GEOID12B (Conus)

Station ID	Northing (m)	Easting (m)	Elevation (m)
1140_2018_CA	1556208.779	-1966921.558	734.901

Point Type	Latitude (Global)	Longitude (Global)	Ellipsoid Height (m)
LiDAR Control	N35°00'47.48669"	W117°55'39.34900"	703.119

Location Photo

NORTH

1140_2018_CA, 2, 20180714

1140_2018_CA, 3W, 20180714

WOOLPERT

GCP OBSERVATION LOG

Project Number	Project Name	Company	Field Operator
78654	So Cal Wildfire	Woolpert Inc.	EN/ZJH/KMF

Coordinate System	Hor. Datum	Ver. Datum	Zone	Geoid
NAD 1983 (Conus)	Albers Equal Area	NAVD88	Albers Equal Area	GEOID12B (Conus)

Station ID	Northing (m)	Easting (m)	Elevation (m)
1141_2018_CA	1558014.353	-1972443.990	805.365

Point Type	Latitude (Global)	Longitude (Global)	Ellipsoid Height (m)
LiDAR Control	N35°01'03.34352"	W117°59'29.63881"	773.589

Location Photo

NORTH

1141_2018_CA, 2, 20180714

1141_2018_CA, 3S, 20180714

GCP OBSERVATION LOG

Project Number	Project Name	Company	Field Operator
78654	So Cal Wildfire	Woolpert Inc.	EN/ZJH/KMF

Coordinate System	Hor. Datum	Ver. Datum	Zone	Geoid
NAD 1983 (Conus)	Albers Equal Area	NAVD88	Albers Equal Area	GEOID12B (Conus)

Station ID	Northing (m)	Easting (m)	Elevation (m)
1142_2018_CA	1560264.154	-1978184.401	777.199

Point Type	Latitude (Global)	Longitude (Global)	Ellipsoid Height (m)
LiDAR Control	N35°01'31.37133"	W118°03'32.45957"	745.441

Location Photo

NORTH

1142_2018_CA, 2, 20180714

1142_2018_CA, 3W, 20180714

WOOLPERT

GCP OBSERVATION LOG

Project Number	Project Name	Company	Field Operator
78654	So Cal Wildfire	Woolpert Inc.	EN/ZJH/KMF

Coordinate System	Hor. Datum	Ver. Datum	Zone	Geoid
NAD 1983 (Conus)	Albers Equal Area	NAVD88	Albers Equal Area	GEOID12B (Conus)

Station ID	Northing (m)	Easting (m)	Elevation (m)
1143_2018_CA	1511582.621	-2077828.915	247.902

Point Type	Latitude (Global)	Longitude (Global)	Ellipsoid Height (m)
LiDAR Control	N34°23'35.12133"	W118°59'57.14065"	213.144

Location Photo

NORTH

1143_2018_CA, 2, 20180804

1143_2018_CA, 3N, 20180804

WOOLPERT

GCP OBSERVATION LOG

Project Number	Project Name	Company	Field Operator
78654	So Cal Wildfire	Woolpert Inc.	EN/ZJH/KMF

Coordinate System	Hor. Datum	Ver. Datum	Zone	Geoid
NAD 1983 (Conus)	Albers Equal Area	NAVD88	Albers Equal Area	GEOID12B (Conus)

Station ID	Northing (m)	Easting (m)	Elevation (m)
1144_2018_CA	1568721.960	-1982384.682	853.761

Point Type	Latitude (Global)	Longitude (Global)	Ellipsoid Height (m)
LiDAR Control	N35°05'25.03819"	W118°07'32.69366"	822.286

Location Photo

NORTH

1144_2018_CA, 2, 20180714

1144_2018_CA, 3N, 20180714

WOOLPERT

GCP OBSERVATION LOG

Project Number	Project Name	Company	Field Operator
78654	So Cal Wildfire	Woolpert Inc.	EN/ZJH/KMF

Coordinate System	Hor. Datum	Ver. Datum	Zone	Geoid
NAD 1983 (Conus)	Albers Equal Area	NAVD88	Albers Equal Area	GEOID12B (Conus)

Station ID	Northing (m)	Easting (m)	Elevation (m)
1145_2018_CA	1559903.568	-1990463.991	847.270

Point Type	Latitude (Global)	Longitude (Global)	Ellipsoid Height (m)
LiDAR Control	N34°59'48.92811"	W118°11'24.42132"	815.567

Location Photo

NORTH

1145_2018_CA, 2, 20180713

1145_2018_CA, 3S, 20180713

WOOLPERT

GCP OBSERVATION LOG

Project Number	Project Name	Company	Field Operator
78654	So Cal Wildfire	Woolpert Inc.	EN/ZJH/KMF

Coordinate System	Hor. Datum	Ver. Datum	Zone	Geoid
NAD 1983 (Conus)	Albers Equal Area	NAVD88	Albers Equal Area	GEOID12B (Conus)

Station ID	Northing (m)	Easting (m)	Elevation (m)
1146_2018_CA	1541827.800	-2068413.717	2045.389

Point Type	Latitude (Global)	Longitude (Global)	Ellipsoid Height (m)
LiDAR Control	N34°40'33.02429"	W118°58'42.19490"	2013.854

Location Photo

NORTH

1146_2018_CA, 2, 20180807

1146_2018_CA, 3N, 20180807

WOOLPERT

GCP OBSERVATION LOG

Project Number	Project Name	Company	Field Operator
78654	So Cal Wildfire	Woolpert Inc.	EN/ZJH/KMF

Coordinate System	Hor. Datum	Ver. Datum	Zone	Geoid
NAD 1983 (Conus)	Albers Equal Area	NAVD88	Albers Equal Area	GEOID12B (Conus)

Station ID	Northing (m)	Easting (m)	Elevation (m)
1147_2018_CA	1556264.605	-1997389.980	875.445

Point Type	Latitude (Global)	Longitude (Global)	Ellipsoid Height (m)
LiDAR Control	N34°57'03.38649"	W118°15'18.76609"	843.649

Location Photo

NORTH

1147_2018_CA, 2, 20180713

1147_2018_CA, 3N, 20180713

WOOLPERT

GCP OBSERVATION LOG

Project Number	Project Name	Company	Field Operator
78654	So Cal Wildfire	Woolpert Inc.	EN/ZJH/KMF

Coordinate System	Hor. Datum	Ver. Datum	Zone	Geoid
NAD 1983 (Conus)	Albers Equal Area	NAVD88	Albers Equal Area	GEOID12B (Conus)

Station ID	Northing (m)	Easting (m)	Elevation (m)
1148_2018_CA	1551274.426	-2004604.214	811.943

Point Type	Latitude (Global)	Longitude (Global)	Ellipsoid Height (m)
LiDAR Control	N34°53'33.26169"	W118°19'11.47589"	779.975

Location Photo

NORTH

1148_2018_CA, 2, 20180714

1148_2018_CA, 3N, 20180714

WOOLPERT

GCP OBSERVATION LOG

Project Number	Project Name	Company	Field Operator
78654	So Cal Wildfire	Woolpert Inc.	EN/ZJH/KMF

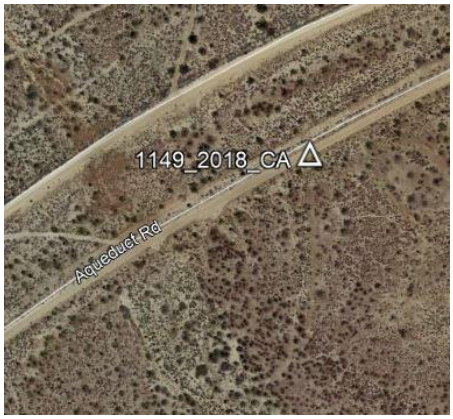
Coordinate System	Hor. Datum	Ver. Datum	Zone	Geoid
NAD 1983 (Conus)	Albers Equal Area	NAVD88	Albers Equal Area	GEOID12B (Conus)

Station ID	Northing (m)	Easting (m)	Elevation (m)
1149_2018_CA	1555639.666	-2009711.263	955.917

Point Type	Latitude (Global)	Longitude (Global)	Ellipsoid Height (m)
LiDAR Control	N34°55'11.56329"	W118°23'09.16803"	924.196

Location Photo

NORTH



1149_2018_CA, 2, 20180714

1149_2018_CA, 3SW, 20180714

WOOLPERT

GCP OBSERVATION LOG

Project Number	Project Name	Company	Field Operator
78654	So Cal Wildfire	Woolpert Inc.	EN/ZJH/KMF

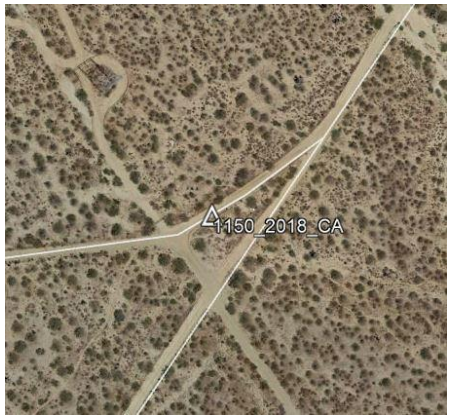
Coordinate System	Hor. Datum	Ver. Datum	Zone	Geoid
NAD 1983 (Conus)	Albers Equal Area	NAVD88	Albers Equal Area	GEOID12B (Conus)

Station ID	Northing (m)	Easting (m)	Elevation (m)
1150_2018_CA	1551526.841	-2016737.948	883.367

Point Type	Latitude (Global)	Longitude (Global)	Ellipsoid Height (m)
LiDAR Control	N34°52'10.03470"	W118°27'02.34044"	851.432

Location Photo

NORTH



1150_2018_CA, 2, 20180715

1150_2018_CA, 3NE, 20180715

WOOLPERT

GCP OBSERVATION LOG

Project Number	Project Name	Company	Field Operator
78654	So Cal Wildfire	Woolpert Inc.	EN/ZJH/KMF

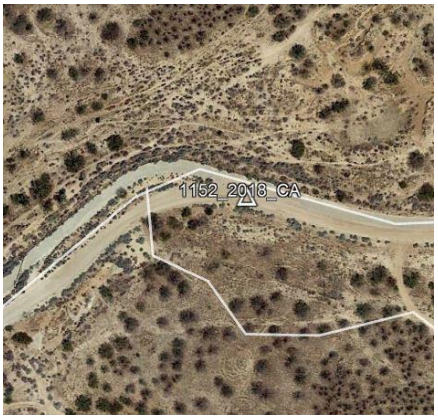
Coordinate System	Hor. Datum	Ver. Datum	Zone	Geoid
NAD 1983 (Conus)	Albers Equal Area	NAVD88	Albers Equal Area	GEOID12B (Conus)

Station ID	Northing (m)	Easting (m)	Elevation (m)
1152_2018_CA	1551630.940	-2022805.242	946.330

Point Type	Latitude (Global)	Longitude (Global)	Ellipsoid Height (m)
LiDAR Control	N34°51'27.52877"	W118°30'57.47696"	914.414

Location Photo

NORTH



1152_2018_CA, 2, 20180715

1152_2018_CA, 3S, 20180715

WOOLPERT

GCP OBSERVATION LOG

Project Number	Project Name	Company	Field Operator
78654	So Cal Wildfire	Woolpert Inc.	EN/ZJH/KMF

Coordinate System	Hor. Datum	Ver. Datum	Zone	Geoid
NAD 1983 (Conus)	Albers Equal Area	NAVD88	Albers Equal Area	GEOID12B (Conus)

Station ID	Northing (m)	Easting (m)	Elevation (m)
1153_2018_CA	1551898.365	-2028845.598	982.313

Point Type	Latitude (Global)	Longitude (Global)	Ellipsoid Height (m)
LiDAR Control	N34°50'50.20369"	W118°34'53.02807"	950.398

Location Photo

NORTH

1153_2018_CA, 2, 20180715

1153_2018_CA, 3N, 20180715

WOOLPERT

GCP OBSERVATION LOG

Project Number	Project Name	Company	Field Operator
78654	So Cal Wildfire	Woolpert Inc.	EN/ZJH/KMF

Coordinate System	Hor. Datum	Ver. Datum	Zone	Geoid
NAD 1983 (Conus)	Albers Equal Area	NAVD88	Albers Equal Area	GEOID12B (Conus)

Station ID	Northing (m)	Easting (m)	Elevation (m)
1155_2018_CA	1553306.544	-2034596.268	980.531

Point Type	Latitude (Global)	Longitude (Global)	Ellipsoid Height (m)
LiDAR Control	N34°50'50.62043"	W118°38'48.03074"	948.682

Location Photo

NORTH

1155_2018_CA, 2, 20180716

1155_2018_CA, 3N, 20180716

WOOLPERT

GCP OBSERVATION LOG

Project Number	Project Name	Company	Field Operator
78654	So Cal Wildfire	Woolpert Inc.	EN/ZJH/KMF

Coordinate System	Hor. Datum	Ver. Datum	Zone	Geoid
NAD 1983 (Conus)	Albers Equal Area	NAVD88	Albers Equal Area	GEOID12B (Conus)

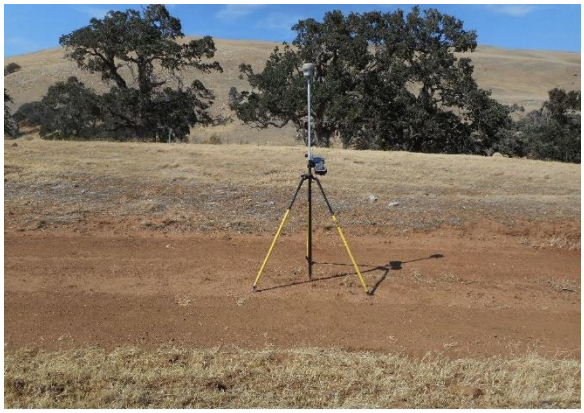
Station ID	Northing (m)	Easting (m)	Elevation (m)
1156_2018_CA	1554095.193	-2041168.167	1010.742

Point Type	Latitude (Global)	Longitude (Global)	Ellipsoid Height (m)
LiDAR Control	N34°50'25.27912"	W118°43'08.88075"	978.980

Location Photo

NORTH

1156_2018_CA, 2, 20180716



1156_2018_CA, 3NE, 20180716

WOOLPERT

GCP OBSERVATION LOG

Project Number	Project Name	Company	Field Operator
78654	So Cal Wildfire	Woolpert Inc.	EN/ZJH/KMF

Coordinate System	Hor. Datum	Ver. Datum	Zone	Geoid
NAD 1983 (Conus)	Albers Equal Area	NAVD88	Albers Equal Area	GEOID12B (Conus)

Station ID	Northing (m)	Easting (m)	Elevation (m)
1158_2018_CA	1552134.828	-2047065.330	1126.512

Point Type	Latitude (Global)	Longitude (Global)	Ellipsoid Height (m)
LiDAR Control	N34°48'38.99531"	W118°46'37.77323"	1094.793

Location Photo

NORTH

1158_2018_CA, 2, 20180716

1158_2018_CA, 3SE, 20180716

WOOLPERT

GCP OBSERVATION LOG

Project Number	Project Name	Company	Field Operator
78654	So Cal Wildfire	Woolpert Inc.	EN/ZJH/KMF

Coordinate System	Hor. Datum	Ver. Datum	Zone	Geoid
NAD 1983 (Conus)	Albers Equal Area	NAVD88	Albers Equal Area	GEOID12B (Conus)

Station ID	Northing (m)	Easting (m)	Elevation (m)
1160_2018_CA	1578773.996	-1997169.538	1241.435

Point Type	Latitude (Global)	Longitude (Global)	Ellipsoid Height (m)
LiDAR Control	N35°08'49.43824"	W118°18'38.35740"	1210.808

Location Photo

NORTH

1160_2018_CA, 2, 20180712

1160_2018_CA, 3SW, 20180712

WOOLPERT

GCP OBSERVATION LOG

Project Number	Project Name	Company	Field Operator
78654	So Cal Wildfire	Woolpert Inc.	EN/ZJH/KMF

Coordinate System	Hor. Datum	Ver. Datum	Zone	Geoid
NAD 1983 (Conus)	Albers Equal Area	NAVD88	Albers Equal Area	GEOID12B (Conus)

Station ID	Northing (m)	Easting (m)	Elevation (m)
1161_2018_CA	1575763.364	-1999133.464	1203.099

Point Type	Latitude (Global)	Longitude (Global)	Ellipsoid Height (m)
LiDAR Control	N35°07'00.53841"	W118°19'26.54338"	1172.368

Location Photo

NORTH

1161_2018_CA, 2, 20180712

1161_2018_CA, 3N, 20180712

WOOLPERT

GCP OBSERVATION LOG

Project Number	Project Name	Company	Field Operator
78654	So Cal Wildfire	Woolpert Inc.	EN/ZJH/KMF

Coordinate System	Hor. Datum	Ver. Datum	Zone	Geoid
NAD 1983 (Conus)	Albers Equal Area	NAVD88	Albers Equal Area	GEOID12B (Conus)

Station ID	Northing (m)	Easting (m)	Elevation (m)
1162_2018_CA	1571199.962	-2002044.720	1366.750

Point Type	Latitude (Global)	Longitude (Global)	Ellipsoid Height (m)
LiDAR Control	N35°04'15.94723"	W118°20'36.97034"	1335.906

Location Photo

NORTH

1162_2018_CA, 2, 20180712

1162_2018_CA, 3SW, 20180712

WOOLPERT

GCP OBSERVATION LOG

Project Number	Project Name	Company	Field Operator
78654	So Cal Wildfire	Woolpert Inc.	EN/ZJH/KMF

Coordinate System	Hor. Datum	Ver. Datum	Zone	Geoid
NAD 1983 (Conus)	Albers Equal Area	NAVD88	Albers Equal Area	GEOID12B (Conus)

Station ID	Northing (m)	Easting (m)	Elevation (m)
1163_2018_CA	1566705.246	-2003948.791	1240.240

Point Type	Latitude (Global)	Longitude (Global)	Ellipsoid Height (m)
LiDAR Control	N35°01'41.03985"	W118°21'08.98318"	1209.183

Location Photo

NORTH

1163_2018_CA, 2, 20180713

1163_2018_CA, 3W, 20180713

WOOLPERT

GCP OBSERVATION LOG

Project Number	Project Name	Company	Field Operator
78654	So Cal Wildfire	Woolpert Inc.	EN/ZJH/KMF

Coordinate System	Hor. Datum	Ver. Datum	Zone	Geoid
NAD 1983 (Conus)	Albers Equal Area	NAVD88	Albers Equal Area	GEOID12B (Conus)

Station ID	Northing (m)	Easting (m)	Elevation (m)
1164_2018_CA	1582572.648	-1998730.852	1285.599

Point Type	Latitude (Global)	Longitude (Global)	Ellipsoid Height (m)
LiDAR Control	N35°10'36.59616"	W118°20'14.11321"	1255.082

Location Photo

NORTH

1164_2018_CA, 2, 20180713

1164_2018_CA, 3W, 20180713

WOOLPERT

GCP OBSERVATION LOG

Project Number	Project Name	Company	Field Operator
78654	So Cal Wildfire	Woolpert Inc.	EN/ZJH/KMF

Coordinate System	Hor. Datum	Ver. Datum	Zone	Geoid
NAD 1983 (Conus)	Albers Equal Area	NAVD88	Albers Equal Area	GEOID12B (Conus)

Station ID	Northing (m)	Easting (m)	Elevation (m)
1165_2018_CA	1607454.227	-1977414.128	1580.172

Point Type	Latitude (Global)	Longitude (Global)	Ellipsoid Height (m)
LiDAR Control	N35°26'14.20345"	W118°10'16.68965"	1550.350

Location Photo

NORTH

1165_2018_CA, 2, 20180718

1165_2018_CA, 3N, 20180718

WOOLPERT

GCP OBSERVATION LOG

Project Number	Project Name	Company	Field Operator
78654	So Cal Wildfire	Woolpert Inc.	EN/ZJH/KMF

Coordinate System	Hor. Datum	Ver. Datum	Zone	Geoid
NAD 1983 (Conus)	Albers Equal Area	NAVD88	Albers Equal Area	GEOID12B (Conus)

Station ID	Northing (m)	Easting (m)	Elevation (m)
1166_2018_CA	1602905.221	-1946286.899	1098.222

Point Type	Latitude (Global)	Longitude (Global)	Ellipsoid Height (m)
LiDAR Control	N35°27'41.46289"	W117°49'22.89496"	1067.585

Location Photo

NORTH

1166_2018_CA, 2, 20180718

1166_2018_CA, 3N, 20180718

WOOLPERT

GCP OBSERVATION LOG

Project Number	Project Name	Company	Field Operator
78654	So Cal Wildfire	Woolpert Inc.	EN/ZJH/KMF

Coordinate System	Hor. Datum	Ver. Datum	Zone	Geoid
NAD 1983 (Conus)	Albers Equal Area	NAVD88	Albers Equal Area	GEOID12B (Conus)

Station ID	Northing (m)	Easting (m)	Elevation (m)
1167-2018-CA	1599180.336	-1940934.689	818.855

Point Type	Latitude (Global)	Longitude (Global)	Ellipsoid Height (m)
LiDAR Control	N35°26'23.92135"	W117°45'20.50917"	788.046

Location Photo

NORTH

1167_2018_CA, 2, 20180718

1167_2018_CA, 3W, 20180718

WOOLPERT

GCP OBSERVATION LOG

Project Number	Project Name	Company	Field Operator
78654	So Cal Wildfire	Woolpert Inc.	EN/ZJH/KMF

Coordinate System	Hor. Datum	Ver. Datum	Zone	Geoid
NAD 1983 (Conus)	Albers Equal Area	NAVD88	Albers Equal Area	GEOID12B (Conus)

Station ID	Northing (m)	Easting (m)	Elevation (m)
1168_2018_CA	1592703.490	-1927531.876	945.912

Point Type	Latitude (Global)	Longitude (Global)	Ellipsoid Height (m)
LiDAR Control	N35°24'38.47082"	W117°35'39.80751"	915.128

Location Photo

NORTH

1168_2018_CA, 2, 20180718

1168_2018_CA, 3W, 20180718

WOOLPERT

GCP OBSERVATION LOG

Project Number	Project Name	Company	Field Operator
78654	So Cal Wildfire	Woolpert Inc.	EN/ZJH/KMF

Coordinate System	Hor. Datum	Ver. Datum	Zone	Geoid
NAD 1983 (Conus)	Albers Equal Area	NAVD88	Albers Equal Area	GEOID12B (Conus)

Station ID	Northing (m)	Easting (m)	Elevation (m)
1169_2018_CA	1600570.789	-1948326.270	1189.925

Point Type	Latitude (Global)	Longitude (Global)	Ellipsoid Height (m)
LiDAR Control	N35°26'13.41976"	W117°50'21.07196"	1159.198

Location Photo

NORTH

1169_2018_CA, 2, 20180718

1169_2018_CA, 3N, 20180718

WOOLPERT

GCP OBSERVATION LOG

Project Number	Project Name	Company	Field Operator
78654	So Cal Wildfire	Woolpert Inc.	EN/ZJH/KMF

Coordinate System	Hor. Datum	Ver. Datum	Zone	Geoid
NAD 1983 (Conus)	Albers Equal Area	NAVD88	Albers Equal Area	GEOID12B (Conus)

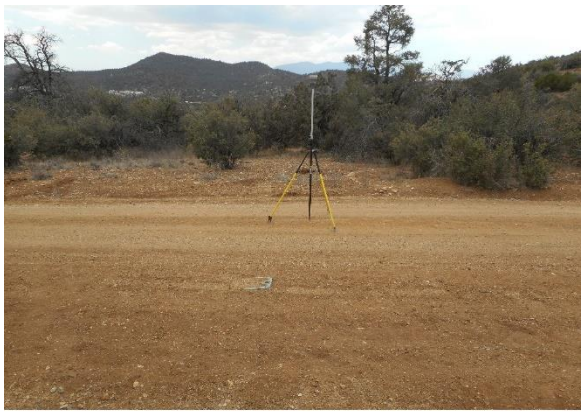
Station ID	Northing (m)	Easting (m)	Elevation (m)
1170_2018_CA	1583381.520	-2000032.305	1377.210

Point Type	Latitude (Global)	Longitude (Global)	Ellipsoid Height (m)
LiDAR Control	N35°10'52.14763"	W118°21'12.07929"	1346.716

Location Photo

NORTH

1170_2018_CA, 2, 20180713



1170_2018_CA, 3SW, 20180713

WOOLPERT

GCP OBSERVATION LOG

Project Number	Project Name	Company	Field Operator
78654	So Cal Wildfire	Woolpert Inc.	EN/ZJH/KMF

Coordinate System	Hor. Datum	Ver. Datum	Zone	Geoid
NAD 1983 (Conus)	Albers Equal Area	NAVD88	Albers Equal Area	GEOID12B (Conus)

Station ID	Northing (m)	Easting (m)	Elevation (m)
1171_2018_CA	1563726.006	-2017640.440	1358.163

Point Type	Latitude (Global)	Longitude (Global)	Ellipsoid Height (m)
LiDAR Control	N34°58'24.85716"	W118°29'30.74137"	1327.137

Location Photo

NORTH

1171_2018_CA, 2, 20180716

1171_2018_CA, 3N, 20180716

WOOLPERT

GCP OBSERVATION LOG

Project Number	Project Name	Company	Field Operator
78654	So Cal Wildfire	Woolpert Inc.	EN/ZJH/KMF

Coordinate System	Hor. Datum	Ver. Datum	Zone	Geoid
NAD 1983 (Conus)	Albers Equal Area	NAVD88	Albers Equal Area	GEOID12B (Conus)

Station ID	Northing (m)	Easting (m)	Elevation (m)
1172_2018_CA	1568342.565	-2013497.891	1811.246

Point Type	Latitude (Global)	Longitude (Global)	Ellipsoid Height (m)
LiDAR Control	N35°01'20.49415"	W118°27'33.59539"	1780.546

Location Photo

NORTH

1172_2018_CA, 2, 20180715

1172_2018_CA, 3N, 20180715

WOOLPERT

GCP OBSERVATION LOG

Project Number	Project Name	Company	Field Operator
78654	So Cal Wildfire	Woolpert Inc.	EN/ZJH/KMF

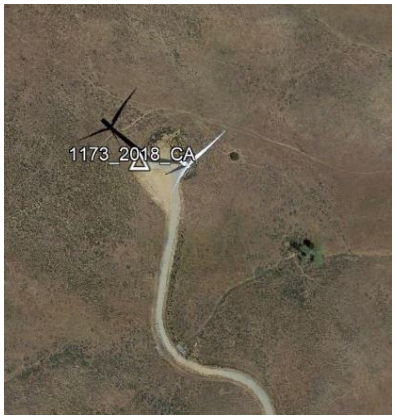
Coordinate System	Hor. Datum	Ver. Datum	Zone	Geoid
NAD 1983 (Conus)	Albers Equal Area	NAVD88	Albers Equal Area	GEOID12B (Conus)

Station ID	Northing (m)	Easting (m)	Elevation (m)
1173_2018_CA	1570489.849	-2006910.910	1528.327

Point Type	Latitude (Global)	Longitude (Global)	Ellipsoid Height (m)
LiDAR Control	N35°03'17.21780"	W118°23'38.73163"	1497.565

Location Photo

NORTH



1173_2018_CA, 2, 20180715

1173_2018_CA, 3N, 20180715

WOOLPERT

GCP OBSERVATION LOG

Project Number	Project Name	Company	Field Operator
78654	So Cal Wildfire	Woolpert Inc.	EN/ZJH/KMF

Coordinate System	Hor. Datum	Ver. Datum	Zone	Geoid
NAD 1983 (Conus)	Albers Equal Area	NAVD88	Albers Equal Area	GEOID12B (Conus)

Station ID	Northing (m)	Easting (m)	Elevation (m)
1174_2018_CA	1560084.981	-2018871.913	1103.473

Point Type	Latitude (Global)	Longitude (Global)	Ellipsoid Height (m)
LiDAR Control	N34°56'21.67413"	W118°29'44.38932"	1072.154

Location Photo

NORTH

1174_2018_CA, 2, 20180716

1174_2018_CA, 3N, 20180716

WOOLPERT

GCP OBSERVATION LOG

Project Number	Project Name	Company	Field Operator
78654	So Cal Wildfire	Woolpert Inc.	EN/ZJH/KMF

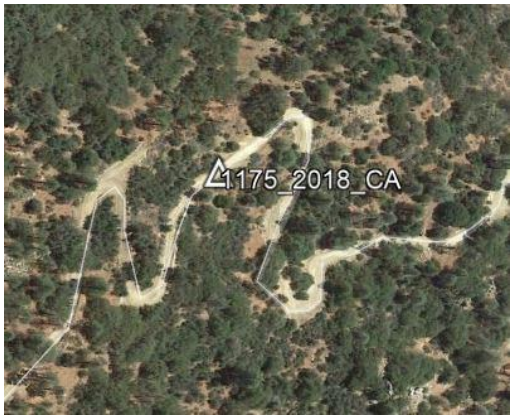
Coordinate System	Hor. Datum	Ver. Datum	Zone	Geoid
NAD 1983 (Conus)	Albers Equal Area	NAVD88	Albers Equal Area	GEOID12B (Conus)

Station ID	Northing (m)	Easting (m)	Elevation (m)
1175_2018_CA	1603735.073	-1989271.496	1825.907

Point Type	Latitude (Global)	Longitude (Global)	Ellipsoid Height (m)
LiDAR Control	N35°22'49.44068"	W118°17'23.41373"	1796.038

Location Photo

NORTH



1175_2018_CA, 2, 20180717

1175_2018_CA, 3SW, 20180717

WOOLPERT

GCP OBSERVATION LOG

Project Number	Project Name	Company	Field Operator
78654	So Cal Wildfire	Woolpert Inc.	EN/ZJH/KMF

Coordinate System	Hor. Datum	Ver. Datum	Zone	Geoid
NAD 1983 (Conus)	Albers Equal Area	NAVD88	Albers Equal Area	GEOID12B (Conus)

Station ID	Northing (m)	Easting (m)	Elevation (m)
1176_2018_CA	1608030.969	-1992993.271	2149.159

Point Type	Latitude (Global)	Longitude (Global)	Ellipsoid Height (m)
LiDAR Control	N35°24'35.96901"	W118°20'28.07324"	2119.450

Location Photo

NORTH

1176_2018_CA, 2, 20180717

1176_2018_CA, 3NW, 20180717

WOOLPERT

GCP OBSERVATION LOG

Project Number	Project Name	Company	Field Operator
78654	So Cal Wildfire	Woolpert Inc.	EN/ZJH/KMF

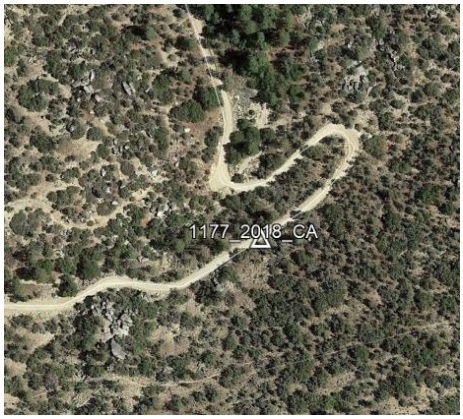
Coordinate System	Hor. Datum	Ver. Datum	Zone	Geoid
NAD 1983 (Conus)	Albers Equal Area	NAVD88	Albers Equal Area	GEOID12B (Conus)

Station ID	Northing (m)	Easting (m)	Elevation (m)
1177_2018_CA	1611670.446	-1985497.401	1913.338

Point Type	Latitude (Global)	Longitude (Global)	Ellipsoid Height (m)
LiDAR Control	N35°27'25.88178"	W118°16'10.33442"	1883.754

Location Photo

NORTH



1177_2018_CA, 2, 20180718

1177_2018_CA, 3SE, 20180718

WOOLPERT

GCP OBSERVATION LOG

Project Number	Project Name	Company	Field Operator
78654	So Cal Wildfire	Woolpert Inc.	EN/ZJH/KMF

Coordinate System	Hor. Datum	Ver. Datum	Zone	Geoid
NAD 1983 (Conus)	Albers Equal Area	NAVD88	Albers Equal Area	GEOID12B (Conus)

Station ID	Northing (m)	Easting (m)	Elevation (m)
1179_2018_CA	1613535.077	-1973133.379	1545.477

Point Type	Latitude (Global)	Longitude (Global)	Ellipsoid Height (m)
LiDAR Control	N35°29'56.28962"	W118°08'26.24541"	1515.731

Location Photo

NORTH

1179_2018_CA, 2, 20180718

1179_2018_CA, 3NE, 20180718

WOOLPERT

GCP OBSERVATION LOG

Project Number	Project Name	Company	Field Operator
78654	So Cal Wildfire	Woolpert Inc.	EN/ZJH/KMF

Coordinate System	Hor. Datum	Ver. Datum	Zone	Geoid
NAD 1983 (Conus)	Albers Equal Area	NAVD88	Albers Equal Area	GEOID12B (Conus)

Station ID	Northing (m)	Easting (m)	Elevation (m)
1180_2018_CA	1601443.373	-1979263.090	1376.747

Point Type	Latitude (Global)	Longitude (Global)	Ellipsoid Height (m)
LiDAR Control	N35°22'52.36365"	W118°10'33.04612"	1346.729

Location Photo

NORTH

1180_2018_CA, 2, 20180718

1180_2018_CA, 3N, 20180718

WOOLPERT

GCP OBSERVATION LOG

Project Number	Project Name	Company	Field Operator
78654	So Cal Wildfire	Woolpert Inc.	EN/ZJH/KMF

Coordinate System	Hor. Datum	Ver. Datum	Zone	Geoid
NAD 1983 (Conus)	Albers Equal Area	NAVD88	Albers Equal Area	GEOID12B (Conus)

Station ID	Northing (m)	Easting (m)	Elevation (m)
1183_2018_CA	1596128.568	-1982375.130	1212.228

Point Type	Latitude (Global)	Longitude (Global)	Ellipsoid Height (m)
LiDAR Control	N35°19'42.89471"	W118°11'44.89094"	1181.987

Location Photo

NORTH

1183_2018_CA, 2, 20180717

1183_2018_CA, 3N, 20180717

WOOLPERT

GCP OBSERVATION LOG

Project Number	Project Name	Company	Field Operator
78654	So Cal Wildfire	Woolpert Inc.	EN/ZJH/KMF

Coordinate System	Hor. Datum	Ver. Datum	Zone	Geoid
NAD 1983 (Conus)	Albers Equal Area	NAVD88	Albers Equal Area	GEOID12B (Conus)

Station ID	Northing (m)	Easting (m)	Elevation (m)
1184_2018_CA	1590106.842	-1982760.296	1180.374

Point Type	Latitude (Global)	Longitude (Global)	Ellipsoid Height (m)
LiDAR Control	N35°16'31.58741"	W118°11'04.21948"	1149.905

Location Photo

NORTH

1184_2018_CA, 2, 20180717

1184_2018_CA, 3N, 20180717

WOOLPERT

GCP OBSERVATION LOG

Project Number	Project Name	Company	Field Operator
78654	So Cal Wildfire	Woolpert Inc.	EN/ZJH/KMF

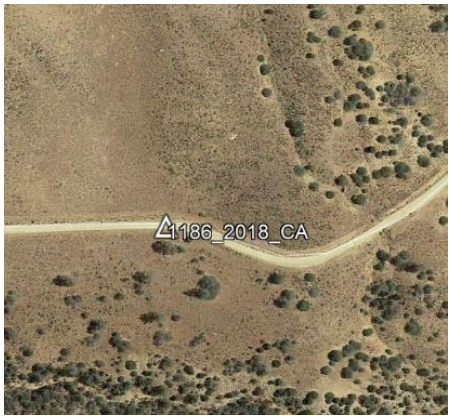
Coordinate System	Hor. Datum	Ver. Datum	Zone	Geoid
NAD 1983 (Conus)	Albers Equal Area	NAVD88	Albers Equal Area	GEOID12B (Conus)

Station ID	Northing (m)	Easting (m)	Elevation (m)
1186_2018_CA	1584869.279	-1984044.065	1390.813

Point Type	Latitude (Global)	Longitude (Global)	Ellipsoid Height (m)
LiDAR Control	N35°13'38.12306"	W118°11'05.71014"	1360.226

Location Photo

NORTH



1186_2018_CA, 2, 20180717

1186_2018_CA, 3N, 20180717

WOOLPERT

GCP OBSERVATION LOG

Project Number	Project Name	Company	Field Operator
78654	So Cal Wildfire	Woolpert Inc.	EN/ZJH/KMF

Coordinate System	Hor. Datum	Ver. Datum	Zone	Geoid
NAD 1983 (Conus)	Albers Equal Area	NAVD88	Albers Equal Area	GEOID12B (Conus)

Station ID	Northing (m)	Easting (m)	Elevation (m)
1188_2018_CA	1581129.497	-1997023.023	1348.415

Point Type	Latitude (Global)	Longitude (Global)	Ellipsoid Height (m)
LiDAR Control	N35°10'04.23390"	W118°18'54.51732"	1317.863

Location Photo

NORTH

1188_2018_CA, 2, 20180713

1188_2018_CA, 3N, 20180713

WOOLPERT

GCP OBSERVATION LOG

Project Number	Project Name	Company	Field Operator
78654	So Cal Wildfire	Woolpert Inc.	EN/ZJH/KMF

Coordinate System	Hor. Datum	Ver. Datum	Zone	Geoid
NAD 1983 (Conus)	Albers Equal Area	NAVD88	Albers Equal Area	GEOID12B (Conus)

Station ID	Northing (m)	Easting (m)	Elevation (m)
1189_2018_CA	1578549.856	-1988836.269	1872.577

Point Type	Latitude (Global)	Longitude (Global)	Ellipsoid Height (m)
LiDAR Control	N35°09'44.66228"	W118°13'13.26216"	1841.873

Location Photo

NORTH

1189_2018_CA, 2, 20180712

1189_2018_CA, 3N, 20180712

WOOLPERT

GCP OBSERVATION LOG

Project Number	Project Name	Company	Field Operator
78654	So Cal Wildfire	Woolpert Inc.	EN/ZJH/KMF

Coordinate System	Hor. Datum	Ver. Datum	Zone	Geoid
NAD 1983 (Conus)	Albers Equal Area	NAVD88	Albers Equal Area	GEOID12B (Conus)

Station ID	Northing (m)	Easting (m)	Elevation (m)
1248_2018_CA	1511864.563	-2069827.389	193.836

Point Type	Latitude (Global)	Longitude (Global)	Ellipsoid Height (m)
LiDAR Control	N34°24'45.56509"	W118°54'53.19088"	159.266

Location Photo

NORTH

1248_2018_CA, 2, 20180803

1248_2018_CA, 3S, 20180803

WOOLPERT

GCP OBSERVATION LOG

Project Number	Project Name	Company	Field Operator
78654	So Cal Wildfire	Woolpert Inc.	EN/ZJH/KMF

Coordinate System	Hor. Datum	Ver. Datum	Zone	Geoid
NAD 1983 (Conus)	Albers Equal Area	NAVD88	Albers Equal Area	GEOID12B (Conus)

Station ID	Northing (m)	Easting (m)	Elevation (m)
1253_2018_CA	1510369.295	-2081504.040	116.835

Point Type	Latitude (Global)	Longitude (Global)	Ellipsoid Height (m)
LiDAR Control	N34°22'28.81563"	W119°02'06.43013"	81.849

Location Photo

NORTH

1253_2018_CA, 2, 20180803

1253_2018_CA, 3E, 20180803

WOOLPERT

GCP OBSERVATION LOG

Project Number	Project Name	Company	Field Operator
78654	So Cal Wildfire	Woolpert Inc.	EN/ZJH/KMF

Coordinate System	Hor. Datum	Ver. Datum	Zone	Geoid
NAD 1983 (Conus)	Albers Equal Area	NAVD88	Albers Equal Area	GEOID12B (Conus)

Station ID	Northing (m)	Easting (m)	Elevation (m)
1256_2018_CA	1525721.619	-2085201.392	1679.951

Point Type	Latitude (Global)	Longitude (Global)	Ellipsoid Height (m)
LiDAR Control	N34°29'59.96940"	W119°06'53.86640"	1646.782

Location Photo

NORTH

1256_2018_CA, 2, 20180806

1256_2018_CA, 3N, 20180806

GCP OBSERVATION LOG

Project Number	Project Name	Company	Field Operator
78654	So Cal Wildfire	Woolpert Inc.	EN/ZJH/KMF

Coordinate System	Hor. Datum	Ver. Datum	Zone	Geoid
NAD 1983 (Conus)	Albers Equal Area	NAVD88	Albers Equal Area	GEOID12B (Conus)

Station ID	Northing (m)	Easting (m)	Elevation (m)
1301_2018_CA	1553875.251	-1958161.933	698.195

Point Type	Latitude (Global)	Longitude (Global)	Ellipsoid Height (m)
LiDAR Control	N35°00'38.69694"	W117°49'38.92359"	666.377

Location Photo

NORTH

GCP OBSERVATION LOG

Project Number	Project Name	Company	Field Operator
78654	So Cal Wildfire	Woolpert Inc.	EN/ZJH/KMF

Coordinate System	Hor. Datum	Ver. Datum	Zone	Geoid
NAD 1983 (Conus)	Albers Equal Area	NAVD88	Albers Equal Area	GEOID12B (Conus)

Station ID	Northing (m)	Easting (m)	Elevation (m)
1302_2018_CA	1542233.291	-1963838.339	693.115

Point Type	Latitude (Global)	Longitude (Global)	Ellipsoid Height (m)
LiDAR Control	N34°53'52.32918"	W117°51'33.18745"	661.079

Location Photo

NORTH

GCP OBSERVATION LOG

Project Number	Project Name	Company	Field Operator
78654	So Cal Wildfire	Woolpert Inc.	EN/ZJH/KMF

Coordinate System	Hor. Datum	Ver. Datum	Zone	Geoid
NAD 1983 (Conus)	Albers Equal Area	NAVD88	Albers Equal Area	GEOID12B (Conus)

Station ID	Northing (m)	Easting (m)	Elevation (m)
1309_2018_CA	1551179.448	-1971682.831	729.966

Point Type	Latitude (Global)	Longitude (Global)	Ellipsoid Height (m)
LiDAR Control	N34°57'34.89210"	W117°57'57.87641"	698.088

Location Photo

NORTH

GCP OBSERVATION LOG

Project Number	Project Name	Company	Field Operator
78654	So Cal Wildfire	Woolpert Inc.	EN/ZJH/KMF

Coordinate System	Hor. Datum	Ver. Datum	Zone	Geoid
NAD 1983 (Conus)	Albers Equal Area	NAVD88	Albers Equal Area	GEOID12B (Conus)

Station ID	Northing (m)	Easting (m)	Elevation (m)
1310_2018_CA	1553845.078	-1963314.551	707.009

Point Type	Latitude (Global)	Longitude (Global)	Ellipsoid Height (m)
LiDAR Control	N34°59'59.95988"	W117°52'58.19583"	675.193

Location Photo

NORTH

GCP OBSERVATION LOG

Project Number	Project Name	Company	Field Operator
78654	So Cal Wildfire	Woolpert Inc.	EN/ZJH/KMF

Coordinate System	Hor. Datum	Ver. Datum	Zone	Geoid
NAD 1983 (Conus)	Albers Equal Area	NAVD88	Albers Equal Area	GEOID12B (Conus)

Station ID	Northing (m)	Easting (m)	Elevation (m)
1311_2018_CA	1550642.962	-1967146.615	777.842

Point Type	Latitude (Global)	Longitude (Global)	Ellipsoid Height (m)
LiDAR Control	N34°57'51.48833"	W117°54'57.45817"	745.977

Location Photo

NORTH

GCP OBSERVATION LOG

Project Number	Project Name	Company	Field Operator
78654	So Cal Wildfire	Woolpert Inc.	EN/ZJH/KMF

Coordinate System	Hor. Datum	Ver. Datum	Zone	Geoid
NAD 1983 (Conus)	Albers Equal Area	NAVD88	Albers Equal Area	GEOID12B (Conus)

Station ID	Northing (m)	Easting (m)	Elevation (m)
1312_2018_CA	1551317.123	-1962401.942	692.837

Point Type	Latitude (Global)	Longitude (Global)	Ellipsoid Height (m)
LiDAR Control	N34°58'47.46502"	W117°51'59.92639"	660.979

Location Photo

NORTH

WOOLPERT

GCP OBSERVATION LOG

Project Number	Project Name	Company	Field Operator
78654	So Cal Wildfire	Woolpert Inc.	EN/ZJH/KMF

Coordinate System	Hor. Datum	Ver. Datum	Zone	Geoid
NAD 1983 (Conus)	Albers Equal Area	NAVD88	Albers Equal Area	GEOID12B (Conus)

Station ID	Northing (m)	Easting (m)	Elevation (m)
1313_2018_CA	1546578.558	-1964734.574	693.768

Point Type	Latitude (Global)	Longitude (Global)	Ellipsoid Height (m)
LiDAR Control	N34°56'01.88901"	W117°52'47.23091"	661.822

Location Photo

NORTH

GCP OBSERVATION LOG

Project Number	Project Name	Company	Field Operator
78654	So Cal Wildfire	Woolpert Inc.	EN/ZJH/KMF

Coordinate System	Hor. Datum	Ver. Datum	Zone	Geoid
NAD 1983 (Conus)	Albers Equal Area	NAVD88	Albers Equal Area	GEOID12B (Conus)

Station ID	Northing (m)	Easting (m)	Elevation (m)
1314_2018_CA	1540357.253	-1965667.807	695.667

Point Type	Latitude (Global)	Longitude (Global)	Ellipsoid Height (m)
LiDAR Control	N34°52'40.12364"	W117°52'26.93511"	663.583

Location Photo

NORTH

WOOLPERT

GCP OBSERVATION LOG

Project Number	Project Name	Company	Field Operator
78654	So Cal Wildfire	Woolpert Inc.	EN/ZJH/KMF

Coordinate System	Hor. Datum	Ver. Datum	Zone	Geoid
NAD 1983 (Conus)	Albers Equal Area	NAVD88	Albers Equal Area	GEOID12B (Conus)

Station ID	Northing (m)	Easting (m)	Elevation (m)
1315_2018_CA	1539670.017	-1969834.935	700.448

Point Type	Latitude (Global)	Longitude (Global)	Ellipsoid Height (m)
LiDAR Control	N34°51'47.96920"	W117°55'01.78591"	668.321

Location Photo

NORTH

WOOLPERT

GCP OBSERVATION LOG

Project Number	Project Name	Company	Field Operator
78654	So Cal Wildfire	Woolpert Inc.	EN/ZJH/KMF

Coordinate System	Hor. Datum	Ver. Datum	Zone	Geoid
NAD 1983 (Conus)	Albers Equal Area	NAVD88	Albers Equal Area	GEOID12B (Conus)

Station ID	Northing (m)	Easting (m)	Elevation (m)
1316_2018_CA	1545480.661	-1968397.979	708.509

Point Type	Latitude (Global)	Longitude (Global)	Ellipsoid Height (m)
LiDAR Control	N34°55'00.57123"	W117°54'58.97829"	676.532

Location Photo

NORTH

GCP OBSERVATION LOG

Project Number	Project Name	Company	Field Operator
78654	So Cal Wildfire	Woolpert Inc.	EN/ZJH/KMF

Coordinate System	Hor. Datum	Ver. Datum	Zone	Geoid
NAD 1983 (Conus)	Albers Equal Area	NAVD88	Albers Equal Area	GEOID12B (Conus)

Station ID	Northing (m)	Easting (m)	Elevation (m)
1317_2018_CA	1545878.901	-1951289.341	712.482

Point Type	Latitude (Global)	Longitude (Global)	Ellipsoid Height (m)
LiDAR Control	N34°57'18.37079"	W117°44'00.56155"	680.649

Location Photo

NORTH

WOOLPERT

GCP OBSERVATION LOG

Project Number	Project Name	Company	Field Operator
78654	So Cal Wildfire	Woolpert Inc.	EN/ZJH/KMF

Coordinate System	Hor. Datum	Ver. Datum	Zone	Geoid
NAD 1983 (Conus)	Albers Equal Area	NAVD88	Albers Equal Area	GEOID12B (Conus)

Station ID	Northing (m)	Easting (m)	Elevation (m)
1318_2018_CA	1545701.735	-1948470.932	759.913

Point Type	Latitude (Global)	Longitude (Global)	Ellipsoid Height (m)
LiDAR Control	N34°57'33.36359"	W117°42'09.84904"	728.135

Location Photo

NORTH

GCP OBSERVATION LOG

Project Number	Project Name	Company	Field Operator
78654	So Cal Wildfire	Woolpert Inc.	EN/ZJH/KMF

Coordinate System	Hor. Datum	Ver. Datum	Zone	Geoid
NAD 1983 (Conus)	Albers Equal Area	NAVD88	Albers Equal Area	GEOID12B (Conus)

Station ID	Northing (m)	Easting (m)	Elevation (m)
1319_2018_CA	1545832.175	-1943910.701	784.170

Point Type	Latitude (Global)	Longitude (Global)	Ellipsoid Height (m)
LiDAR Control	N34°58'10.63452"	W117°39'14.43466"	752.464

Location Photo

NORTH

GCP OBSERVATION LOG

Project Number	Project Name	Company	Field Operator
78654	So Cal Wildfire	Woolpert Inc.	EN/ZJH/KMF

Coordinate System	Hor. Datum	Ver. Datum	Zone	Geoid
NAD 1983 (Conus)	Albers Equal Area	NAVD88	Albers Equal Area	GEOID12B (Conus)

Station ID	Northing (m)	Easting (m)	Elevation (m)
1320_2018_CA	1541549.142	-1941081.606	835.448

Point Type	Latitude (Global)	Longitude (Global)	Ellipsoid Height (m)
LiDAR Control	N34°56'16.91799"	W117°36'46.46615"	803.767

Location Photo

NORTH

GCP OBSERVATION LOG

Project Number	Project Name	Company	Field Operator
78654	So Cal Wildfire	Woolpert Inc.	EN/ZJH/KMF

Coordinate System	Hor. Datum	Ver. Datum	Zone	Geoid
NAD 1983 (Conus)	Albers Equal Area	NAVD88	Albers Equal Area	GEOID12B (Conus)

Station ID	Northing (m)	Easting (m)	Elevation (m)
1323_2018_CA	1534736.012	-1943459.412	911.429

Point Type	Latitude (Global)	Longitude (Global)	Ellipsoid Height (m)
LiDAR Control	N34°52'26.07187"	W117°37'17.45404"	879.666

Location Photo

NORTH

GCP OBSERVATION LOG

Project Number	Project Name	Company	Field Operator
78654	So Cal Wildfire	Woolpert Inc.	EN/ZJH/KMF

Coordinate System	Hor. Datum	Ver. Datum	Zone	Geoid
NAD 1983 (Conus)	Albers Equal Area	NAVD88	Albers Equal Area	GEOID12B (Conus)

Station ID	Northing (m)	Easting (m)	Elevation (m)
1324_2018_CA	1536989.274	-1948702.727	857.385

Point Type	Latitude (Global)	Longitude (Global)	Ellipsoid Height (m)
LiDAR Control	N34°52'58.59577"	W117°41'00.48829"	825.569

Location Photo

NORTH

GCP OBSERVATION LOG

Project Number	Project Name	Company	Field Operator
78654	So Cal Wildfire	Woolpert Inc.	EN/ZJH/KMF

Coordinate System	Hor. Datum	Ver. Datum	Zone	Geoid
NAD 1983 (Conus)	Albers Equal Area	NAVD88	Albers Equal Area	GEOID12B (Conus)

Station ID	Northing (m)	Easting (m)	Elevation (m)
1325_2018_CA	1541308.043	-1952418.426	768.381

Point Type	Latitude (Global)	Longitude (Global)	Ellipsoid Height (m)
LiDAR Control	N34°54'46.88312"	W117°44'03.08216"	736.506

Location Photo

NORTH

GCP OBSERVATION LOG

Project Number	Project Name	Company	Field Operator
78654	So Cal Wildfire	Woolpert Inc.	EN/ZJH/KMF

Coordinate System	Hor. Datum	Ver. Datum	Zone	Geoid
NAD 1983 (Conus)	Albers Equal Area	NAVD88	Albers Equal Area	GEOID12B (Conus)

Station ID	Northing (m)	Easting (m)	Elevation (m)
1325A_2018_CA	1541329.450	-1952455.487	767.622

Point Type	Latitude (Global)	Longitude (Global)	Ellipsoid Height (m)
LiDAR Control	N34°54'47.28366"	W117°44'04.70895"	735.746

Location Photo

NORTH

WOOLPERT

GCP OBSERVATION LOG

Project Number	Project Name	Company	Field Operator
78654	So Cal Wildfire	Woolpert Inc.	EN/ZJH/KMF

Coordinate System	Hor. Datum	Ver. Datum	Zone	Geoid
NAD 1983 (Conus)	Albers Equal Area	NAVD88	Albers Equal Area	GEOID12B (Conus)

Station ID	Northing (m)	Easting (m)	Elevation (m)
1326_2018_CA	1542597.590	-1948860.964	934.056

Point Type	Latitude (Global)	Longitude (Global)	Ellipsoid Height (m)
LiDAR Control	N34°55'53.23175"	W117°41'57.02058"	902.292

Location Photo

NORTH

WOOLPERT

GCP OBSERVATION LOG

Project Number	Project Name	Company	Field Operator
78654	So Cal Wildfire	Woolpert Inc.	EN/ZJH/KMF

Coordinate System	Hor. Datum	Ver. Datum	Zone	Geoid
NAD 1983 (Conus)	Albers Equal Area	NAVD88	Albers Equal Area	GEOID12B (Conus)

Station ID	Northing (m)	Easting (m)	Elevation (m)
1327_2018_CA	1541538.458	-1944513.036	888.614

Point Type	Latitude (Global)	Longitude (Global)	Ellipsoid Height (m)
LiDAR Control	N34°55'51.66673"	W117°38'59.21009"	856.915

Location Photo

NORTH

GCP OBSERVATION LOG

Project Number	Project Name	Company	Field Operator
78654	So Cal Wildfire	Woolpert Inc.	EN/ZJH/KMF

Coordinate System	Hor. Datum	Ver. Datum	Zone	Geoid
NAD 1983 (Conus)	Albers Equal Area	NAVD88	Albers Equal Area	GEOID12B (Conus)

Station ID	Northing (m)	Easting (m)	Elevation (m)
1328_2018_CA	1538904.362	-1946765.676	892.140

Point Type	Latitude (Global)	Longitude (Global)	Ellipsoid Height (m)
LiDAR Control	N34°54'12.71996"	W117°40'02.74619"	860.394

Location Photo

NORTH

WOOLPERT

GCP OBSERVATION LOG

Project Number	Project Name	Company	Field Operator
78654	So Cal Wildfire	Woolpert Inc.	EN/ZJH/KMF

Coordinate System	Hor. Datum	Ver. Datum	Zone	Geoid
NAD 1983 (Conus)	Albers Equal Area	NAVD88	Albers Equal Area	GEOID12B (Conus)

Station ID	Northing (m)	Easting (m)	Elevation (m)
1329_2018_CA	1541538.458	-1944513.038	888.609

Point Type	Latitude (Global)	Longitude (Global)	Ellipsoid Height (m)
LiDAR Control	N34°55'51.66671"	W117°38'59.21018"	856.911

Location Photo

NORTH

Section 4: Existing NGS Datasheets

This section contains the published National Geodetic Survey (NGS) datasheets for those existing monumented control stations that were used to establish 3-dimensional coordinates for each of the newly established ground control survey points for the project.

The NGS Data Sheet

See file dsdata.pdf for more information about the datasheet.

```
PROGRAM = datasheet95, VERSION = 8.12.5
1        National Geodetic Survey,   Retrieval Date = JULY 12, 2018
 EV9079 ***********************************************************************
 EV9079  DESIGNATION -  S 1420
 EV9079  PID         -  EV9079
 EV9079  STATE/COUNTY-  CA/SAN BERNARDINO
 EV9079  COUNTRY     -  US
 EV9079  USGS QUAD   -  YUCAIPA (1996)
 EV9079
 EV9079                        *CURRENT SURVEY CONTROL
 EV9079  ______________________________________________________________________
 EV9079* NAD 83(1986) POSITION- 34 00 17.40   (N) 117 02 04.38   (W)    HD_HELD1
 EV9079* NAVD 88 ORTHO HEIGHT -   795.790 (meters)     2610.85  (feet) ADJUSTED
 EV9079  ______________________________________________________________________
 EV9079  GEOID HEIGHT    -        -31.978 (meters)                     GEOID12B
 EV9079  DYNAMIC HEIGHT  -        794.808 (meters)     2607.63  (feet) COMP
 EV9079  MODELED GRAVITY -    979,376.2   (mgal)                       NAVD 88
 EV9079
 EV9079  VERT ORDER      -  FIRST     CLASS II
 EV9079
 EV9079.The horizontal coordinates were determined by differentially corrected
 EV9079.hand held GPS observations or other comparable positioning techniques
 EV9079.and have an estimated accuracy of +/- 3 meters.
 EV9079.
 EV9079.The orthometric height was determined by differential leveling and
 EV9079.adjusted by the NATIONAL GEODETIC SURVEY
 EV9079.in June 1991.
 EV9079
 EV9079.Significant digits in the geoid height do not necessarily reflect accuracy.
 EV9079.GEOID12B height accuracy estimate available here.
 EV9079
 EV9079.Photographs are available for this station.
 EV9079
 EV9079.The dynamic height is computed by dividing the NAVD 88
 EV9079.geopotential number by the normal gravity value computed on the
 EV9079.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
 EV9079.degrees latitude (g = 980.6199 gals.).
 EV9079
 EV9079.The modeled gravity was interpolated from observed gravity values.
 EV9079
 EV9079;                    North         East     Units  Estimated Accuracy
 EV9079;SPC CA 5     -   556,427.6   2,089,187.0     MT  (+/- 3 meters HH1 GPS)
 EV9079
 EV9079_U.S. NATIONAL GRID SPATIAL ADDRESS: 11SMT9680962692(NAD 83)
 EV9079
 EV9079                           SUPERSEDED SURVEY CONTROL
 EV9079
 EV9079.No superseded survey control is available for this station.
```

```
 EV9079
 EV9079_MARKER: F = FLANGE-ENCASED ROD
 EV9079_SETTING: 49 = STAINLESS STEEL ROD W/O SLEEVE (10 FT.+)
 EV9079_STAMPING: S 1420 1988
 EV9079_MARK LOGO: NGS
 EV9079_PROJECTION: FLUSH
 EV9079_STABILITY: B = PROBABLY HOLD POSITION/ELEVATION WELL
 EV9079_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR
 EV9079+SATELLITE: SATELLITE OBSERVATIONS - July 21, 2003
 EV9079_ROD/PIPE-DEPTH: 10.5 meters
 EV9079
 EV9079  HISTORY     - Date     Condition        Report By
 EV9079  HISTORY     - 1988     MONUMENTED       NGS
 EV9079  HISTORY     - 20030721 GOOD             USPSQD
 EV9079
 EV9079                          STATION DESCRIPTION
 EV9079
 EV9079'DESCRIBED BY NATIONAL GEODETIC SURVEY 1988
 EV9079'IN CALIMESA.
 EV9079'0.5 KM (0.30 MI) NORTHWEST ALONG CALIMESA BOULEVARD FROM THE POST
 EV9079'OFFICE IN CALIMESA, THENCE 2.6 KM (1.60 MI) EAST ALONG COUNTY LINE
 EV9079'ROAD, IN THE SOUTHWEST QUADRANT OF THE INTERSECTION OF BRYANT STREET,
 EV9079'10.5 M (34.4 FT) SOUTH OF THE CENTERLINE OF THE ROAD, 7.1 M (23.3 FT)
 EV9079'WEST OF THE CENTERLINE OF THE STREET, 13.6 M (44.6 FT) SOUTHWEST OF
 EV9079'THE CENTER OF A MANHOLE COVER WHICH IS NEAR THE CENTER OF THE ROAD
 EV9079'INTERSECTION.  NOTE--ACCESS TO DATUM POINT IS HAD THROUGH A 5-INCH
 EV9079'LOGO CAP.
 EV9079'THE MARK IS 0.3 M ABOVE THE STREETS.
 EV9079
 EV9079                          STATION RECOVERY (2003)
 EV9079
 EV9079'RECOVERY NOTE BY US POWER SQUADRON 2003 (GAR)
 EV9079'FOUND AS DESCRIBED.


EV0527 ***********************************************************************
 EV0527  DESIGNATION -  Q 1152
 EV0527  PID         -  EV0527
 EV0527  STATE/COUNTY-  CA/SAN BERNARDINO
 EV0527  COUNTRY     -  US
 EV0527  USGS QUAD   -  BIG BEAR CITY (1996)
 EV0527
 EV0527                        *CURRENT SURVEY CONTROL
 EV0527  ______________________________________________________________________
 EV0527* NAD 83(1986) POSITION- 34 19 15.     (N) 116 49 04.     (W)    SCALED
 EV0527* NAVD 88 ORTHO HEIGHT -  1797.45  (+/-2cm)     5897.1    (feet) VERTCON
 EV0527  ______________________________________________________________________
 EV0527  GEOID HEIGHT    -        -30.148 (meters)                     GEOID12B
 EV0527  VERT ORDER      -  FIRST     CLASS II (See Below)
 EV0527
 EV0527.The horizontal coordinates were scaled from a topographic map and have
 EV0527.an estimated accuracy of +/- 6 seconds.
 EV0527.
 EV0527.The NAVD 88 height was computed by applying the VERTCON shift value to
 EV0527.the NGVD 29 height (displayed under SUPERSEDED SURVEY CONTROL.)
```

```
 EV0527
 EV0527.Significant digits in the geoid height do not necessarily reflect accuracy.
 EV0527.GEOID12B height accuracy estimate available here.
 EV0527
 EV0527.The vertical order pertains to the NGVD 29 superseded value.
 EV0527
 EV0527;                    North         East    Units  Estimated Accuracy
 EV0527;SPC CA 5     -   591,690.    2,108,800.      MT  (+/- 180 meters Scaled)
 EV0527
 EV0527_U.S. NATIONAL GRID SPATIAL ADDRESS: 11SNT167977(NAD 83)
 EV0527
 EV0527                           SUPERSEDED SURVEY CONTROL
 EV0527
 EV0527  NGVD 29 (??/??/92) 1796.440  (m)         5893.82   (f) ADJ UNCH    1 2
 EV0527
 EV0527.Superseded values are not recommended for survey control.
 EV0527
 EV0527.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.
 EV0527.See file dsdata.pdf to determine how the superseded data were derived.
 EV0527
 EV0527_MARKER: DB = BENCH MARK DISK
 EV0527_SETTING: 80 = SET IN A BOULDER
 EV0527_STAMPING: Q 1152 1961
 EV0527_STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO
 EV0527+STABILITY: SURFACE MOTION
 EV0527
 EV0527  HISTORY     - Date     Condition        Report By
 EV0527  HISTORY     - 1961     MONUMENTED       CGS
 EV0527  HISTORY     - 1970     GOOD             USGS
 EV0527
 EV0527                           STATION DESCRIPTION
 EV0527
 EV0527'DESCRIBED BY COAST AND GEODETIC SURVEY 1961
 EV0527'7.6 MI NE FROM BIG BEAR CITY.
 EV0527'7.6 MILES NORTHEAST ALONG STATE HIGHWAY 18 FROM THE JUNCTION
 EV0527'OF STATE HIGHWAY 38 AT BIG BEAR CITY, 0.1 MILE SOUTH OF THE
 EV0527'JUNCTION OF A DIM TRACK ROAD LEADING NORTHEAST, AT THE
 EV0527'SOUTH-SOUTHEAST END OF A LONG PARKING AREA, 50 FEET
 EV0527'WEST-SOUTHWEST OF THE CENTER LINE OF THE HIGHWAY, IN THE TOP
 EV0527'OF A 12 BY 12-FOOT BOULDER WHICH PROJECTS 2 1/2 FEET ABOVE THE
 EV0527'GROUND, 16 FEET WEST-SOUTHWEST OF THE CENTER OF A DRAIN DITCH,
 EV0527'5 FEET WEST-SOUTHWEST OF A WITNESS POST, AND ABOUT 5 FEET HIGHER
 EV0527'THAN THE HIGHWAY.
 EV0527
 EV0527                           STATION RECOVERY (1970)
 EV0527
 EV0527'RECOVERY NOTE BY US GEOLOGICAL SURVEY 1970
 EV0527'RECOVERED IN GOOD CONDITION.

National Geodetic Survey,   Retrieval Date = JUNE 27, 2018
 EV9254 ***********************************************************************
 EV9254  DESIGNATION -  UF 640
 EV9254  PID         -  EV9254
 EV9254  STATE/COUNTY-  CA/SAN BERNARDINO
```

```
EV9254  COUNTRY     -  US
EV9254  USGS QUAD   -  GUASTI (1981)
EV9254
EV9254                        *CURRENT SURVEY CONTROL
EV9254  ______________________________________________________________________________
EV9254* NAD 83(1986) POSITION- 34 05 41.     (N) 117 30 54.     (W)    SCALED
EV9254* NAVD 88 ORTHO HEIGHT -   347.021 (meters)     1138.52  (feet) ADJUSTED
EV9254  ______________________________________________________________________________
EV9254  GEOID HEIGHT    -        -32.962 (meters)                      GEOID12B
EV9254  DYNAMIC HEIGHT  -        346.638 (meters)     1137.26  (feet) COMP
EV9254  MODELED GRAVITY -    979,521.6   (mgal)                        NAVD 88
EV9254
EV9254  VERT ORDER      -  FIRST     CLASS II
EV9254
EV9254.The horizontal coordinates were scaled from a topographic map and have
EV9254.an estimated accuracy of +/- 6 seconds.
EV9254.
EV9254.The orthometric height was determined by differential leveling and
EV9254.adjusted by the NATIONAL GEODETIC SURVEY
EV9254.in January 1993.
EV9254
EV9254.Significant digits in the geoid height do not necessarily reflect accuracy.
EV9254.GEOID12B height accuracy estimate available here.
EV9254
EV9254.The dynamic height is computed by dividing the NAVD 88
EV9254.geopotential number by the normal gravity value computed on the
EV9254.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
EV9254.degrees latitude (g = 980.6199 gals.).
EV9254
EV9254.The modeled gravity was interpolated from observed gravity values.
EV9254
EV9254;                    North         East     Units  Estimated Accuracy
EV9254;SPC CA 5     -   566,080.    2,044,760.      MT  (+/- 180 meters Scaled)
EV9254
EV9254_U.S. NATIONAL GRID SPATIAL ADDRESS: 11SMT524727(NAD 83)
EV9254
EV9254                          SUPERSEDED SURVEY CONTROL
EV9254
EV9254.No superseded survey control is available for this station.
EV9254
EV9254_MARKER: A = ALUMINUM MARKER
EV9254_SETTING: 34 = SET IN THE FOOTINGS OF SMALL/MEDIUM STRUCTURES
EV9254_SP_SET: CATCH BASIN
EV9254_STAMPING: UF 640 1992
EV9254_MARK LOGO: MWDSC
EV9254_MAGNETIC: N = NO MAGNETIC MATERIAL
EV9254_STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO
EV9254+STABILITY: SURFACE MOTION
EV9254_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR
EV9254+SATELLITE: SATELLITE OBSERVATIONS - 1992
EV9254
EV9254  HISTORY     - Date     Condition        Report By
EV9254  HISTORY     - 1992     MONUMENTED       MWDSC
EV9254  HISTORY     - 19960417 GOOD             USPSQD
```

```
 EV9254
 EV9254                          STATION DESCRIPTION
 EV9254
 EV9254'DESCRIBED BY METRO WATER DISTR SO. CALIFORNIA 1992
 EV9254'FONTANA, AT THE NORTHEAST CORNER OF WHITTRAM AVE AND HICKORY AVE 43
 EV9254'FEET (13.1 M) NORTH OF THE CENTERLINE OF WHITTRAM AVE AND 56 FEET
 EV9254'(17.1 M) EAST OF THE CENTERLINE OF HICKORY AVE 0.5 FOOT (15.2 CM)
 EV9254'FROM THE WEST END OF A 71 FEET (21.6 M) LONG HEADWALL FOR ETWANDA
 EV9254'CREEK FLOOD CONTROL A STANDARD MWDSC 3-1/4 INCH ALUMINUM DISK SET
 EV9254'FLUSH IN TOP OF HEADWALL.
 EV9254
 EV9254                          STATION RECOVERY (1996)
 EV9254
 EV9254'RECOVERY NOTE BY US POWER SQUADRON 1996
 EV9254'RECOVERED IN GOOD CONDITION.


National Geodetic Survey,   Retrieval Date = JUNE 20, 2018
 DY0088 ***********************************************************************
 DY0088  DESIGNATION -  1 A 92
 DY0088  PID         -  DY0088
 DY0088  STATE/COUNTY-  CA/ORANGE
 DY0088  COUNTRY     -  US
 DY0088  USGS QUAD   -  LOS ALAMITOS (1981)
 DY0088
 DY0088                        *CURRENT SURVEY CONTROL
 DY0088 ______________________________________________________________________
 DY0088* NAD 83(2011) POSITION- 33 52 16.65098(N) 118 01 44.06147(W)   ADJUSTED
 DY0088* NAD 83(2011) ELLIP HT-   -17.000 (meters)        (06/27/12)   ADJUSTED
 DY0088* NAD 83(2011) EPOCH   -  2010.00
 DY0088* NAVD 88 ORTHO HEIGHT -    18.444 (meters)       60.51  (feet) ADJUSTED
 DY0088 ______________________________________________________________________
 DY0088  GEOID HEIGHT    -        -35.465 (meters)                    GEOID12B
 DY0088  NAD 83(2011) X  - -2,491,130.434 (meters)                    COMP
 DY0088  NAD 83(2011) Y  - -4,679,438.138 (meters)                    COMP
 DY0088  NAD 83(2011) Z  -  3,534,592.414 (meters)                    COMP
 DY0088  LAPLACE CORR    -          4.82  (seconds)                   DEFLEC12B
 DY0088  DYNAMIC HEIGHT  -        18.425 (meters)       60.45  (feet) COMP
 DY0088  MODELED GRAVITY -    979,566.9   (mgal)                      NAVD 88
 DY0088
 DY0088  VERT ORDER      -  FIRST     CLASS I
 DY0088
 DY0088  Network accuracy estimates per FGDC Geospatial Positioning Accuracy
 DY0088  Standards:
 DY0088         FGDC (95% conf, cm)     Standard deviation (cm)     CorrNE
 DY0088            Horiz  Ellip          SD_N   SD_E   SD_h      (unitless)
 DY0088  ------------------------------------------------------------------
 DY0088  NETWORK    1.23   4.57          0.53   0.45   2.33      0.34149698
 DY0088  ------------------------------------------------------------------
 DY0088  Click here for local accuracies and other accuracy information.
 DY0088
 DY0088
 DY0088.The horizontal coordinates were established by GPS observations
 DY0088.and adjusted by the National Geodetic Survey in June 2012.
```

```
DY0088
DY0088.NAD 83(2011) refers to NAD 83 coordinates where the reference frame has
DY0088.been affixed to the stable North American tectonic plate. See
DY0088.NA2011 for more information.
DY0088
DY0088.The horizontal coordinates are valid at the epoch date displayed above
DY0088.which is a decimal equivalence of Year/Month/Day.
DY0088
DY0088.The orthometric height was determined by differential leveling and
DY0088.adjusted by the NATIONAL GEODETIC SURVEY
DY0088.in June 1995.
DY0088
DY0088.Significant digits in the geoid height do not necessarily reflect accuracy.
DY0088.GEOID12B height accuracy estimate available here.
DY0088
DY0088.The X, Y, and Z were computed from the position and the ellipsoidal ht.
DY0088
DY0088.The Laplace correction was computed from DEFLEC12B derived deflections.
DY0088
DY0088.The ellipsoidal height was determined by GPS observations
DY0088.and is referenced to NAD 83.
DY0088
DY0088.The dynamic height is computed by dividing the NAVD 88
DY0088.geopotential number by the normal gravity value computed on the
DY0088.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
DY0088.degrees latitude (g = 980.6199 gals.).
DY0088
DY0088.The modeled gravity was interpolated from observed gravity values.
DY0088
DY0088. The following values were computed from the NAD 83(2011) position.
DY0088
DY0088;                    North         East     Units Scale Factor Converg.
DY0088;SPC CA 6     -   690,456.291 1,835,417.015   MT  0.99999801   -0 58 39.1
DY0088;SPC CA 6     - 2,265,272.01  6,021,697.32   sFT  0.99999801   -0 58 39.1
DY0088;UTM  11      - 3,748,361.474   404,837.745   MT  0.99971164   -0 34 24.5
DY0088
DY0088!             -  Elev Factor  x  Scale Factor =   Combined Factor
DY0088!SPC CA 6     -   1.00000267  x   0.99999801  =   1.00000068
DY0088!UTM  11      -   1.00000267  x   0.99971164  =   0.99971431
DY0088
DY0088_U.S. NATIONAL GRID SPATIAL ADDRESS: 11SMT0483748361(NAD 83)
DY0088
DY0088                          SUPERSEDED SURVEY CONTROL
DY0088
DY0088  NAD 83(2007)-  33 52 16.64804(N)    118 01 44.05846(W) AD(2007.00) 0
DY0088  ELLIP H (02/10/07)  -17.018  (m)                       GP(2007.00)
DY0088  NAD 83(1994)-  33 52 16.63685(N)    118 01 44.04692(W) AD(1995.00) 1
DY0088  ELLIP H (11/30/95)  -17.049  (m)                       GP(1995.00) 4 2
DY0088  NAVD 88              18.44   (m)           60.5    (f) LEVELING    3
DY0088  NAVD 88 (06/15/91)   18.441  (m)           60.50   (f) SUPERSEDED  1 1
DY0088  NGVD 29 (??/??/92)   17.715  (m)           58.12   (f) ADJ UNCH    1 1
DY0088
DY0088.Superseded values are not recommended for survey control.
DY0088
```

```
DY0088.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.
DY0088.See file dsdata.pdf to determine how the superseded data were derived.
DY0088
DY0088_MARKER: DD = SURVEY DISK
DY0088_SETTING: 31 = SET IN A PAVEMENT SUCH AS STREET, SIDEWALK, CURB, ETC.
DY0088_SP_SET: BRIDGE SIDEWALK
DY0088_STAMPING: 1A-92-68
DY0088_MARK LOGO: CA-059
DY0088_MAGNETIC: O = OTHER; SEE DESCRIPTION
DY0088_STABILITY: D = MARK OF QUESTIONABLE OR UNKNOWN STABILITY
DY0088_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR
DY0088+SATELLITE: SATELLITE OBSERVATIONS - November 04, 2014
DY0088
DY0088  HISTORY     - Date     Condition        Report By
DY0088  HISTORY     - 1968     MONUMENTED       CA-059
DY0088  HISTORY     - 1974     GOOD             CA-059
DY0088  HISTORY     - 1978     GOOD             NGS
DY0088  HISTORY     - 19890523 GOOD             NGS
DY0088  HISTORY     - 19940816 GOOD             CA-059
DY0088  HISTORY     - 20010517 GOOD             INDIV
DY0088  HISTORY     - 20040128 GOOD             GEOCAC
DY0088  HISTORY     - 20100426 GOOD             CADT
DY0088  HISTORY     - 20110718 GOOD             CADT
DY0088  HISTORY     - 20140922 GOOD             CADT
DY0088  HISTORY     - 20141104 GOOD             CADT
DY0088
DY0088                          STATION DESCRIPTION
DY0088
DY0088'DESCRIBED BY ORANGE COUNTY CALIFORNIA 1968
DY0088'IN BUENA PARK.
DY0088'0.15 MILE SOUTH ALONG VALLEY VIEW STREET FROM ITS INTERSECTION
DY0088'WITH ARTESIA BOULEVARD TO BRIDGE B1658 OVER COYOTE CREEK, 45 FEET
DY0088'WEST OF THE CENTER LINE OF VALLEY VIEW STREET, 1.0 FOOT SOUTH
DY0088'OF THE NORTH END OF THE BRIDGE, 6.5 FEET EAST OF THE WEST SIDE
DY0088'OF THE BRIDGE, 1.5 FEET WEST OF THE EAST EDGE OF THE WEST WHEEL
DY0088'RAIL, 0.5 FOOT EAST OF THE EAST EDGE OF THE GUARD WALL, IN THE
DY0088'TOP OF THE CONCRETE SIDEWALK OF THE BRIDGE, ABOUT 0.8 FOOT
DY0088'ABOVE THE ROAD.
DY0088
DY0088                          STATION RECOVERY (1974)
DY0088
DY0088'RECOVERY NOTE BY ORANGE COUNTY CALIFORNIA 1974
DY0088'RECOVERED IN GOOD CONDITION.
DY0088
DY0088                          STATION RECOVERY (1978)
DY0088
DY0088'RECOVERY NOTE BY NATIONAL GEODETIC SURVEY 1978
DY0088'AT BUENA PARK, AT THE NORTHWEST CORNER OF BRIDGE OVER COYOTE CREEK
DY0088'AND VALLEY VIEW AVENUE.
DY0088
DY0088                          STATION RECOVERY (1989)
DY0088
DY0088'RECOVERY NOTE BY NATIONAL GEODETIC SURVEY 1989
DY0088'RECOVERED IN GOOD CONDITION.
DY0088
```

```
 DY0088                          STATION RECOVERY (1994)
 DY0088
 DY0088'RECOVERY NOTE BY ORANGE COUNTY CALIFORNIA 1994 (JK)
 DY0088'RECOVERY NOTE BY ORANGE COUNTY CALIFORNIA 1994. RECOVERED AS DESCRIBED
 DY0088'BY NATIONAL GEODETIC SURVEY 1978.
 DY0088
 DY0088                          STATION RECOVERY (2001)
 DY0088
 DY0088'RECOVERY NOTE BY INDIVIDUAL CONTRIBUTORS 2001 (DGB)
 DY0088'RECOVERED IN GOOD CONDITION.
 DY0088
 DY0088                          STATION RECOVERY (2004)
 DY0088
 DY0088'RECOVERY NOTE BY GEOCACHING 2004 (LJK)
 DY0088'RECOVERED IN GOOD CONDITION.
 DY0088
 DY0088                          STATION RECOVERY (2010)
 DY0088
 DY0088'RECOVERY NOTE BY CALTRANS 2010 (JAS)
 DY0088'RECOVERED AS DESCRIBED BY THE COUNTY OF ORANGE IN 1968.
 DY0088
 DY0088                          STATION RECOVERY (2011)
 DY0088
 DY0088'RECOVERY NOTE BY CALTRANS 2011 (JAS)
 DY0088'RECOVERED IN GOOD CONDITION.
 DY0088
 DY0088                          STATION RECOVERY (2014)
 DY0088
 DY0088'RECOVERY NOTE BY CALTRANS 2014 (DMB)
 DY0088'RECOVERED IN GOOD CONDITION.
 DY0088
 DY0088                          STATION RECOVERY (2014)
 DY0088
 DY0088'RECOVERY NOTE BY CALTRANS 2014 (DMB)
 DY0088'RECOVERED IN GOOD CONDITION.


National Geodetic Survey,   Retrieval Date = JUNE 19, 2018
 DX2265 ***********************************************************************
 DX2265  DESIGNATION -  2 A 28 A 69
 DX2265  PID         -  DX2265
 DX2265  STATE/COUNTY-  CA/ORANGE
 DX2265  COUNTRY     -  US
 DX2265  USGS QUAD   -  ORANGE (1981)
 DX2265
 DX2265                        *CURRENT SURVEY CONTROL
 DX2265  ______________________________________________________________________
 DX2265* NAD 83(1986) POSITION- 33 51 52.     (N) 117 48 28.     (W)    SCALED
 DX2265* NAVD 88 ORTHO HEIGHT -    83.722 (meters)      274.68  (feet) ADJUSTED
 DX2265  ______________________________________________________________________
 DX2265  GEOID HEIGHT    -        -34.652 (meters)                     GEOID12B
 DX2265  DYNAMIC HEIGHT  -         83.632 (meters)      274.38  (feet) COMP
 DX2265  MODELED GRAVITY -    979,556.8   (mgal)                       NAVD 88
 DX2265
 DX2265  VERT ORDER      -  FIRST     CLASS I
```

```
DX2265
DX2265.The horizontal coordinates were scaled from a topographic map and have
DX2265.an estimated accuracy of +/- 6 seconds.
DX2265.
DX2265.The orthometric height was determined by differential leveling and
DX2265.adjusted by the NATIONAL GEODETIC SURVEY
DX2265.in June 1991.
DX2265
DX2265.WARNING-Repeat measurements at this control monument indicate possible
DX2265.vertical movement.
DX2265
DX2265.Significant digits in the geoid height do not necessarily reflect accuracy.
DX2265.GEOID12B height accuracy estimate available here.
DX2265
DX2265.The dynamic height is computed by dividing the NAVD 88
DX2265.geopotential number by the normal gravity value computed on the
DX2265.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
DX2265.degrees latitude (g = 980.6199 gals.).
DX2265
DX2265.The modeled gravity was interpolated from observed gravity values.
DX2265
DX2265;                    North         East    Units  Estimated Accuracy
DX2265;SPC CA 6     -   689,370.    1,855,860.      MT  (+/- 180 meters Scaled)
DX2265
DX2265_U.S. NATIONAL GRID SPATIAL ADDRESS: 11SMT252474(NAD 83)
DX2265
DX2265                           SUPERSEDED SURVEY CONTROL
DX2265
DX2265  NGVD 29 (??/??/92)   82.912  (m)          272.02   (f) ADJ UNCH    1 1
DX2265  NGVD 29 (??/??/87)   82.977  (m)          272.23   (f) SUPERSEDED  1 1
DX2265
DX2265.Superseded values are not recommended for survey control.
DX2265
DX2265.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.
DX2265.See file dsdata.pdf to determine how the superseded data were derived.
DX2265
DX2265_MARKER: DD = SURVEY DISK
DX2265_SETTING: 35 = SET IN A MAT FOUNDATION OR CONCRETE SLAB OTHER THAN
DX2265+WITH SETTING: PAVEMENT
DX2265_SP_SET: SIGNAL FOUNDATION
DX2265_STAMPING: LINE-403 2A-28A-69
DX2265_MARK LOGO: CA-059
DX2265_MAGNETIC: N = NO MAGNETIC MATERIAL
DX2265_STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO
DX2265+STABILITY: SURFACE MOTION
DX2265_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR
DX2265+SATELLITE: SATELLITE OBSERVATIONS - April 30, 2003
DX2265
DX2265  HISTORY     - Date     Condition        Report By
DX2265  HISTORY     - 1969     MONUMENTED       CA-059
DX2265  HISTORY     - 1974     GOOD             CA-059
DX2265  HISTORY     - 1977     GOOD             NGS
DX2265  HISTORY     - 1988     GOOD             NGS
DX2265  HISTORY     - 19940107 GOOD             MWDSC
```

```
 DX2265  HISTORY     - 20030430 GOOD             JOHFRA
 DX2265
 DX2265                          STATION DESCRIPTION
 DX2265
 DX2265'DESCRIBED BY ORANGE COUNTY CALIFORNIA 1969
 DX2265'1.5 MI E FROM ATWOOD.
 DX2265'1.5 MILES EAST ALONG THE ATCHISON, TOPEKA AND SANTA FE RAILWAY
 DX2265'FROM THE POST OFFICE IN ATWOOD TO ITS INTERSECTION WITH THE
 DX2265'SOUTHERLY PROLONGATION OF THE CENTER LINE OF CYMBAL STREET,
 DX2265'200 FEET WEST OF THE PROLONGATION OF THE CENTER LINE OF THE
 DX2265'STREET, 10.5 FEET SOUTH OF THE SOUTH RAIL OF THE SOUTH TRACK,
 DX2265'SET IN THE TOP OF THE NORTHWEST CORNER OF A 4 FOOT BY 4 FOOT
 DX2265'CONCRETE BASE FOR A SEMAPHORE ACROSS THE TRACK, ABOUT 2.6 FEET
 DX2265'HIGHER THAN THE RAIL.
 DX2265
 DX2265                          STATION RECOVERY (1974)
 DX2265
 DX2265'RECOVERY NOTE BY ORANGE COUNTY CALIFORNIA 1974
 DX2265'RECOVERED IN GOOD CONDITION.
 DX2265
 DX2265                          STATION RECOVERY (1977)
 DX2265
 DX2265'RECOVERY NOTE BY NATIONAL GEODETIC SURVEY 1977
 DX2265'RECOVERED IN GOOD CONDITION.
 DX2265
 DX2265                          STATION RECOVERY (1988)
 DX2265
 DX2265'RECOVERY NOTE BY NATIONAL GEODETIC SURVEY 1988
 DX2265'RECOVERED IN GOOD CONDITION.  NEW DESCRIPTION FOLLOWS.  2.1 KM (1.30
 DX2265'MI) EAST ALONG ORANGE-THORPE AVENUE FROM THE INTERSECTION OF VAN
 DX2265'BUREN STREET IN ATWOOD, IN TOP OF THE NORTHWEST CORNER OF THE
 DX2265'CONCRETE BASE OF AN ATCHISON TOPEKA AND SANTA FE RAILROAD OVERHEAD
 DX2265'SIGNAL, 24.0 M (78.7 FT) SOUTH OF THE CENTERLINE OF THE EASTBOUND
 DX2265'LANES OF THE AVENUE, 61.0 M (200.1 FT) WEST OF THE EXTENDED
 DX2265'CENTERLINE OF CYMBAL STREET, 3.2 M (10.5 FT) SOUTH OF THE
 DX2265'SOUTHERNMOST RAIL.
 DX2265'THE MARK IS 0.7 M ABOVE THE TRACKS.
 DX2265
 DX2265                          STATION RECOVERY (1994)
 DX2265
 DX2265'RECOVERY NOTE BY METRO WATER DISTR SO. CALIFORNIA 1994 (DEL)
 DX2265'RECOVERED IN GOOD CONDITION.  NOTE--DISK STAMPING HAS BEEN DEFACED.
 DX2265'REFERENCE MWD FB 2011 02 082.
 DX2265
 DX2265                          STATION RECOVERY (2003)
 DX2265
 DX2265'RECOVERY NOTE BY JOHNSON-FRANK 2003 (RAF)
 DX2265'RECOVERED AS DESCRIBED EXCEPT THAT THE OVERHEAD SEMIPHORE SIGNAL HAS
 DX2265'BEEN REMOVED. THE MARK AND THE CONCRETE FOUNDATION IN WHICH IT IS SET
 DX2265'APPEAR TO BE UNAFFECTED.


National Geodetic Survey,   Retrieval Date = JUNE 25, 2018
 DX5442 ***********************************************************************
 DX5442  CBN         -  This is a Cooperative Base Network Control Station.
```

```
DX5442  DESIGNATION -  435
DX5442  PID         -  DX5442
DX5442  STATE/COUNTY-  CA/RIVERSIDE
DX5442  COUNTRY     -  US
DX5442  USGS QUAD   -  PERRIS (1993)
DX5442
DX5442                      *CURRENT SURVEY CONTROL
DX5442  ______________________________________________________________________
DX5442* NAD 83(2011) POSITION- 33 49 49.65857(N) 117 14 59.27000(W)   ADJUSTED
DX5442* NAD 83(2011) ELLIP HT-   429.108 (meters)        (06/27/12)   ADJUSTED
DX5442* NAD 83(2011) EPOCH    -  2010.00
DX5442* NAVD 88 ORTHO HEIGHT -   461.811 (meters)     1515.12  (feet) ADJUSTED
DX5442  ______________________________________________________________________
DX5442  GEOID HEIGHT    -        -32.715 (meters)                     GEOID12B
DX5442  NAD 83(2011) X  - -2,428,595.815 (meters)                     COMP
DX5442  NAD 83(2011) Y  - -4,715,451.153 (meters)                     COMP
DX5442  NAD 83(2011) Z  -  3,531,079.510 (meters)                     COMP
DX5442  LAPLACE CORR    -          1.68  (seconds)                    DEFLEC12B
DX5442  DYNAMIC HEIGHT  -        461.289 (meters)     1513.41  (feet) COMP
DX5442  MODELED GRAVITY -    979,493.1   (mgal)                       NAVD 88
DX5442
DX5442  VERT ORDER      -  FIRST     CLASS II
DX5442
DX5442  Network accuracy estimates per FGDC Geospatial Positioning Accuracy
DX5442  Standards:
DX5442         FGDC (95% conf, cm)     Standard deviation (cm)      CorrNE
DX5442            Horiz  Ellip           SD_N   SD_E   SD_h      (unitless)
DX5442  ------------------------------------------------------------------
DX5442  NETWORK    0.45   1.18           0.19   0.18   0.60     -0.14366328
DX5442  ------------------------------------------------------------------
DX5442  Click here for local accuracies and other accuracy information.
DX5442
DX5442
DX5442.The horizontal coordinates were established by GPS observations
DX5442.and adjusted by the National Geodetic Survey in June 2012.
DX5442
DX5442.NAD 83(2011) refers to NAD 83 coordinates where the reference frame has
DX5442.been affixed to the stable North American tectonic plate. See
DX5442.NA2011 for more information.
DX5442
DX5442.The horizontal coordinates are valid at the epoch date displayed above
DX5442.which is a decimal equivalence of Year/Month/Day.
DX5442
DX5442.The orthometric height was determined by differential leveling and
DX5442.adjusted by the NATIONAL GEODETIC SURVEY
DX5442.in January 1993.
DX5442
DX5442.Significant digits in the geoid height do not necessarily reflect accuracy.
DX5442.GEOID12B height accuracy estimate available here.
DX5442
DX5442.The X, Y, and Z were computed from the position and the ellipsoidal ht.
DX5442
DX5442.The Laplace correction was computed from DEFLEC12B derived deflections.
DX5442
```

```
DX5442.The ellipsoidal height was determined by GPS observations
DX5442.and is referenced to NAD 83.
DX5442
DX5442.The dynamic height is computed by dividing the NAVD 88
DX5442.geopotential number by the normal gravity value computed on the
DX5442.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
DX5442.degrees latitude (g = 980.6199 gals.).
DX5442
DX5442.The modeled gravity was interpolated from observed gravity values.
DX5442
DX5442. The following values were computed from the NAD 83(2011) position.
DX5442
DX5442;                    North         East     Units Scale Factor Converg.
DX5442;SPC CA 6     -   684,967.012 1,907,453.047   MT  0.99999159   -0 32 57.9
DX5442;SPC CA 6     - 2,247,262.61  6,258,035.54   sFT  0.99999159   -0 32 57.9
DX5442;UTM  11      - 3,743,386.109   476,886.012   MT  0.99960659   -0 08 20.7
DX5442
DX5442!             -  Elev Factor  x  Scale Factor =   Combined Factor
DX5442!SPC CA 6     -   0.99993264  x   0.99999159  =   0.99992423
DX5442!UTM  11      -   0.99993264  x   0.99960659  =   0.99953926
DX5442
DX5442_U.S. NATIONAL GRID SPATIAL ADDRESS: 11SMT7688643386(NAD 83)
DX5442
DX5442                           SUPERSEDED SURVEY CONTROL
DX5442
DX5442  NAD 83(2007)-  33 49 49.65715(N)    117 14 59.26781(W) AD(2007.00) 0
DX5442  ELLIP H (02/10/07)  429.116  (m)                       GP(2007.00)
DX5442  NAD 83(1998)-  33 49 49.65057(N)    117 14 59.26214(W) AD(2000.35) A
DX5442  ELLIP H (04/03/01)  429.127  (m)                       GP(2000.35) 1 1
DX5442  NAD 83(1998)-  33 49 49.64856(N)    117 14 59.26107(W) AD(1998.50) A
DX5442  ELLIP H (04/06/00)  429.115  (m)                       GP(1998.50) 3 1
DX5442  NAVD 88             461.81   (m)         1515.1    (f) LEVELING    3
DX5442
DX5442.Superseded values are not recommended for survey control.
DX5442
DX5442.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.
DX5442.See file dsdata.pdf to determine how the superseded data were derived.
DX5442
DX5442_MARKER: DB = BENCH MARK DISK
DX5442_SETTING: 31 = SET IN A PAVEMENT SUCH AS STREET, SIDEWALK, CURB, ETC.
DX5442_SP_SET: SET FLUSH IN TOP OF CURB
DX5442_STAMPING: B.M. 435
DX5442_MARK LOGO: MWDSC
DX5442_PROJECTION: FLUSH
DX5442_MAGNETIC: N = NO MAGNETIC MATERIAL
DX5442_STABILITY: D = MARK OF QUESTIONABLE OR UNKNOWN STABILITY
DX5442_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR
DX5442+SATELLITE: SATELLITE OBSERVATIONS - May 01, 2000
DX5442
DX5442  HISTORY     - Date     Condition        Report By
DX5442  HISTORY     - 1992     MONUMENTED       MWDSC
DX5442  HISTORY     - 19940815 GOOD             MWDSC
DX5442  HISTORY     - 19980611 GOOD             RCFC
DX5442  HISTORY     - 20000501 GOOD             RCFC
DX5442
```

```
 DX5442                          STATION DESCRIPTION
 DX5442
 DX5442'DESCRIBED BY METRO WATER DISTR SO. CALIFORNIA 1992
 DX5442'PERRIS, 1300 FEET (396.2 M) WEST OF ATSF RAILROAD ALONG RIDER ST, ON
 DX5442'TOP OF NORTH CURB FACE OF RIDER ST. 28 FEET (8.5 M) NORTH OF RIDER
 DX5442'ST, 6 FEET (1.8 M) SOUTH OF A GTE TELEPHONE BOX (DAMAGED). A STANDARD
 DX5442'3-1/4 INCH ALUMINUM DISK SET FLUSH IN TOP OF CURB.
 DX5442
 DX5442                          STATION RECOVERY (1994)
 DX5442
 DX5442'RECOVERY NOTE BY METRO WATER DISTR SO. CALIFORNIA 1994 (CLW)
 DX5442'RECOVERED AS DESCRIBED.  REFERENCE MWD FB 4205 06 001.
 DX5442
 DX5442                          STATION RECOVERY (1998)
 DX5442
 DX5442'RECOVERY NOTE BY RIVERSIDE COUNTY FLOOD CONTROL 1998 (HAC)
 DX5442'RECOVERED AS DESCRIBED.
 DX5442
 DX5442                          STATION RECOVERY (2000)
 DX5442
 DX5442'RECOVERY NOTE BY RIVERSIDE COUNTY FLOOD CONTROL 2000 (MEI)
 DX5442'THIS STATION WAS OBSERVED IN MAY, 2000 AS PART OF THE HECTOR MINE
 DX5442'EARTHQUAKE FBN/CBN REOBSERVATION SURVEY.
 DX5442'


National Geodetic Survey,   Retrieval Date = JUNE 27, 2018
 DX1561 ***********************************************************************
 DX1561  DESIGNATION -  G 313
 DX1561  PID         -  DX1561
 DX1561  STATE/COUNTY-  CA/RIVERSIDE
 DX1561  COUNTRY     -  US
 DX1561  USGS QUAD   -  SITTON PEAK (1988)
 DX1561
 DX1561                        *CURRENT SURVEY CONTROL
 DX1561  ______________________________________________________________________
 DX1561* NAD 83(1986) POSITION- 33 36 08.0    (N) 117 27 26.8    (W)    HD_HELD2
 DX1561* NAVD 88 ORTHO HEIGHT -   429.20  (+/-2cm)     1408.1   (feet) VERTCON
 DX1561  ______________________________________________________________________
 DX1561  GEOID HEIGHT    -        -33.177 (meters)                     GEOID12B
 DX1561  VERT ORDER      -  SECOND    CLASS 0 (See Below)
 DX1561
 DX1561.The horizontal coordinates were established by autonomous hand held GPS
 DX1561.observations and have an estimated accuracy of +/- 10 meters.
 DX1561.
 DX1561.The NAVD 88 height was computed by applying the VERTCON shift value to
 DX1561.the NGVD 29 height (displayed under SUPERSEDED SURVEY CONTROL.)
 DX1561
 DX1561.Significant digits in the geoid height do not necessarily reflect accuracy.
 DX1561.GEOID12B height accuracy estimate available here.
 DX1561
 DX1561.The vertical order pertains to the NGVD 29 superseded value.
 DX1561
 DX1561.Photographs are available for this station.
```

```
DX1561
DX1561;                     North         East     Units  Estimated Accuracy
DX1561;SPC CA 6     -   659,857.    1,887,940.      MT  (+/- 10 meters HH2 GPS)
DX1561
DX1561_U.S. NATIONAL GRID SPATIAL ADDRESS: 11SMT5755918146(NAD 83)
DX1561
DX1561                           SUPERSEDED SURVEY CONTROL
DX1561
DX1561  NGVD 29 (11/26/84)  428.426  (m)         1405.59   (f) ADJUSTED    2 0
DX1561
DX1561.Superseded values are not recommended for survey control.
DX1561
DX1561.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.
DX1561.See file dsdata.pdf to determine how the superseded data were derived.
DX1561
DX1561_MARKER: DB = BENCH MARK DISK
DX1561_SETTING: 7 = SET IN TOP OF CONCRETE MONUMENT
DX1561_STAMPING: G 313 1935
DX1561_STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO
DX1561+STABILITY: SURFACE MOTION
DX1561
DX1561  HISTORY     - Date     Condition        Report By
DX1561  HISTORY     - 1935     MONUMENTED       CGS
DX1561  HISTORY     - 1958     GOOD             CGS
DX1561  HISTORY     - 20060606 GOOD             GEOCAC
DX1561
DX1561                           STATION DESCRIPTION
DX1561
DX1561'DESCRIBED BY COAST AND GEODETIC SURVEY 1935
DX1561'4.3 MI NE FROM SAN JUAN HOT SPRINGS.
DX1561'4.3 MILES NORTHEAST ALONG STATE HIGHWAY 74 FROM SAN JUAN HOT
DX1561'SPRINGS, ORANGE COUNTY, 20 FEET WEST OF THE ORANGE-RIVERSIDE
DX1561'COUNTY-LINE SIGN, 19 FEET NORTH OF THE CENTERLINE OF THE HIGHWAY,
DX1561'AND 3-1/2 FEET SOUTH OF A CALIFORNIA STATE DIVISION OF HIGHWAYS
DX1561'MAINTENANCE-SECTION SIGN.  A STANDARD DISK, STAMPED G 313 1935
DX1561'AND SET IN THE TOP OF A CONCRETE POST.
DX1561
DX1561                           STATION RECOVERY (1958)
DX1561
DX1561'RECOVERY NOTE BY COAST AND GEODETIC SURVEY 1958
DX1561'RECOVERED IN GOOD CONDITION.
DX1561
DX1561                           STATION RECOVERY (2006)
DX1561
DX1561'RECOVERY NOTE BY GEOCACHING 2006 (LJK)
DX1561'NEW DESCRIPTION FOLLOWS - ABOUT 13.8 MILES NORTHEAST ALONG STATE
DX1561'HIGHWAY 74 FROM THE INTERSECTION WITH ANTONIO PARKWAY, ABOUT 20 FEET
DX1561'WEST OF THE ORANGE-RIVERSIDE COUNTY LINE, 19 FEET NORTH OF THE
DX1561'CENTERLINE OF THE HIGHWAY, AND 3-1/2 FEET SOUTH OF A CALIFORNIA STATE
DX1561'DIVISION OF HIGHWAYS MAINTENANCE-SECTION SIGN.
DX1561'A STANDARD DISK, STAMPED G 313 1935 AND SET IN THE TOP OF A CONCRETE
DX1561'POST, ABOUT LEVEL WITH THE GROUND AND HIGHWAY.


National Geodetic Survey,   Retrieval Date = JULY 10, 2018
```

```
DX5344 ******************************************************************************
DX5344  DESIGNATION -  H 1 9 RESET
DX5344  PID         -  DX5344
DX5344  STATE/COUNTY-  CA/RIVERSIDE
DX5344  COUNTRY     -  US
DX5344  USGS QUAD   -  HEMET (1996)
DX5344
DX5344                        *CURRENT SURVEY CONTROL
DX5344 ______________________________________________________________________________
DX5344* NAD 83(1986) POSITION- 33 43 45.     (N) 116 59 21.     (W)    SCALED
DX5344* NAVD 88 ORTHO HEIGHT -   472.909 (meters)     1551.54   (feet) ADJUSTED
DX5344 ______________________________________________________________________________
DX5344  GEOID HEIGHT    -        -32.361 (meters)                      GEOID12B
DX5344  DYNAMIC HEIGHT  -        472.359 (meters)     1549.73   (feet) COMP
DX5344  MODELED GRAVITY -    979,458.5   (mgal)                        NAVD 88
DX5344
DX5344  VERT ORDER      -  FIRST     CLASS II
DX5344
DX5344.The horizontal coordinates were scaled from a topographic map and have
DX5344.an estimated accuracy of +/- 6 seconds.
DX5344.
DX5344.The orthometric height was determined by differential leveling and
DX5344.adjusted by the NATIONAL GEODETIC SURVEY
DX5344.in January 1993.
DX5344
DX5344.Significant digits in the geoid height do not necessarily reflect accuracy.
DX5344.GEOID12B height accuracy estimate available here.
DX5344
DX5344.The dynamic height is computed by dividing the NAVD 88
DX5344.geopotential number by the normal gravity value computed on the
DX5344.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
DX5344.degrees latitude (g = 980.6199 gals.).
DX5344
DX5344.The modeled gravity was interpolated from observed gravity values.
DX5344
DX5344;                    North         East     Units  Estimated Accuracy
DX5344;SPC CA 6     -   673,530.    1,931,500.      MT  (+/- 180 meters Scaled)
DX5344
DX5344_U.S. NATIONAL GRID SPATIAL ADDRESS: 11SNT010321(NAD 83)
DX5344
DX5344                           SUPERSEDED SURVEY CONTROL
DX5344
DX5344.No superseded survey control is available for this station.
DX5344
DX5344_MARKER: A = ALUMINUM MARKER
DX5344_SETTING: 31 = SET IN A PAVEMENT SUCH AS STREET, SIDEWALK, CURB, ETC.
DX5344_SP_SET: SIDEWALK
DX5344_STAMPING: H-1-9 RESET 1976
DX5344_MARK LOGO: CA-065
DX5344_MAGNETIC: N = NO MAGNETIC MATERIAL
DX5344_STABILITY: D = MARK OF QUESTIONABLE OR UNKNOWN STABILITY
DX5344_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR
DX5344+SATELLITE: SATELLITE OBSERVATIONS - November 17, 2011
DX5344
```

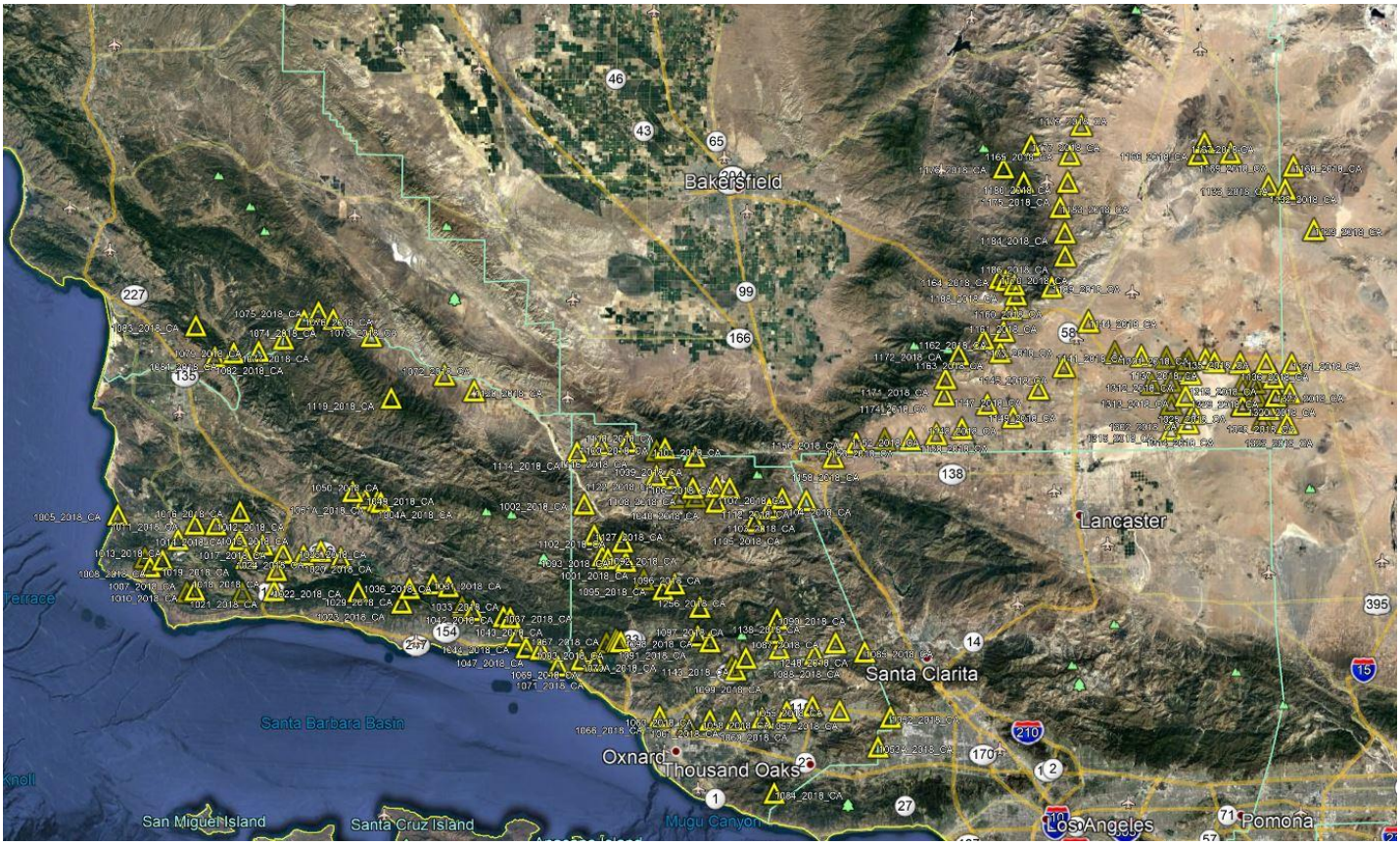
```
DX5344  HISTORY     - Date     Condition        Report By
DX5344  HISTORY     - 1976     MONUMENTED       CA-065
DX5344  HISTORY     - 19920403 GOOD             MWDSC
DX5344  HISTORY     - 20111117 GOOD             ATKNA
DX5344
DX5344                          STATION DESCRIPTION
DX5344
DX5344'DESCRIBED BY METRO WATER DISTR SO. CALIFORNIA 1992
DX5344'IN THE CITY OF HEMET, AT THE NORTHWEST CORNER OF THE INTERSECTION OF
DX5344'STETSON AVE AND LYONS ST.  5 FEET (1.5 M) SOUTH OF BCR 3.5 WEST OF
DX5344'CURB FACE 0.75 FOOT (22.86 CM) EAST OF HEADWALL AND CHAIN LINK FENCE
DX5344'AT SOUTHWEST END OF BRIDGE.
DX5344
DX5344                          STATION RECOVERY (2011)
DX5344
DX5344'RECOVERY NOTE BY ATKINS NORTH AMERICA INC 2011
DX5344'RECOVERED IN GOOD CONDITION.
```

Section 5: GPS Control Diagram

This section contains a graphical representation of the new and existing control stations used for the project.

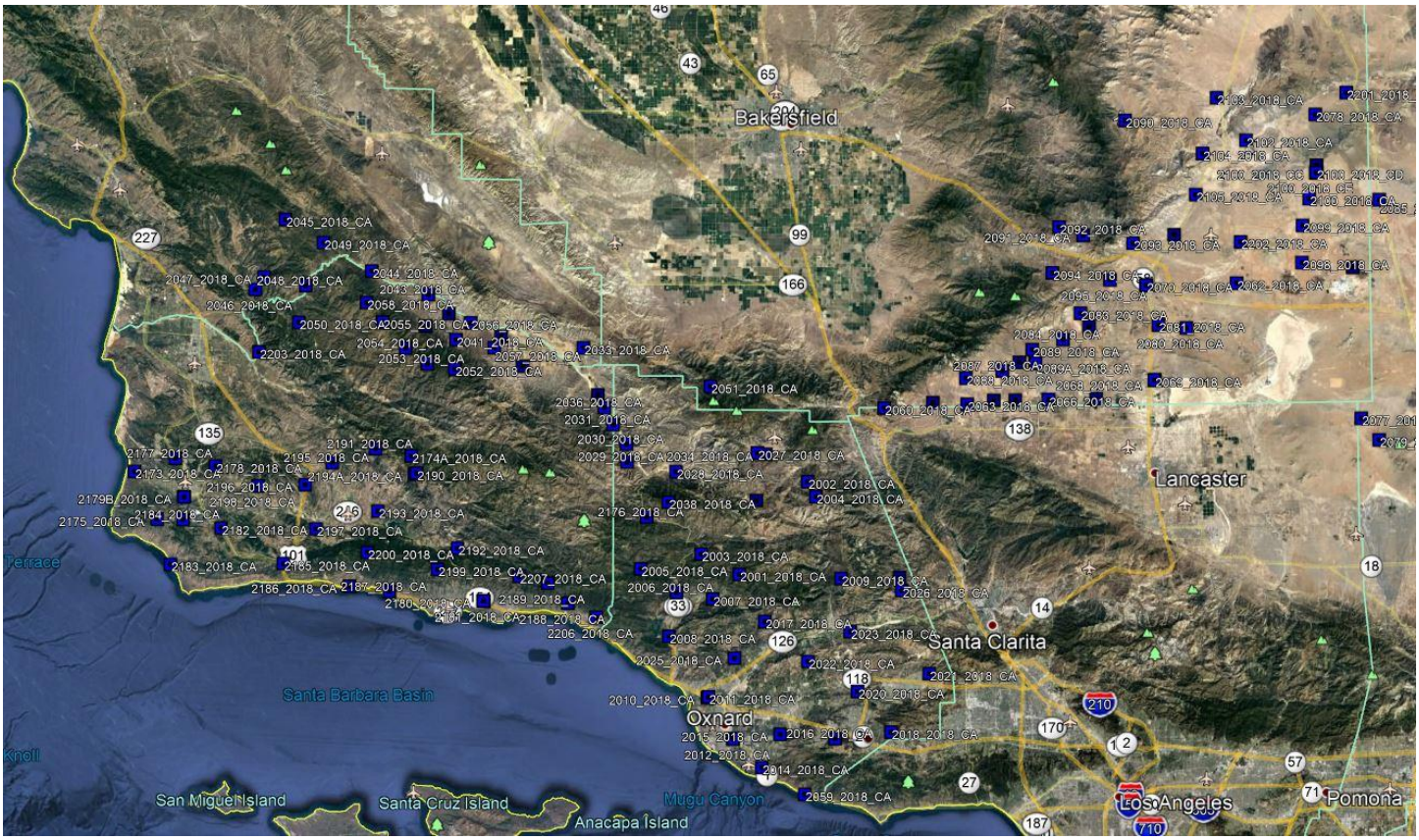
Overview of Control Network:

LiDAR Control Points



Not to Scale

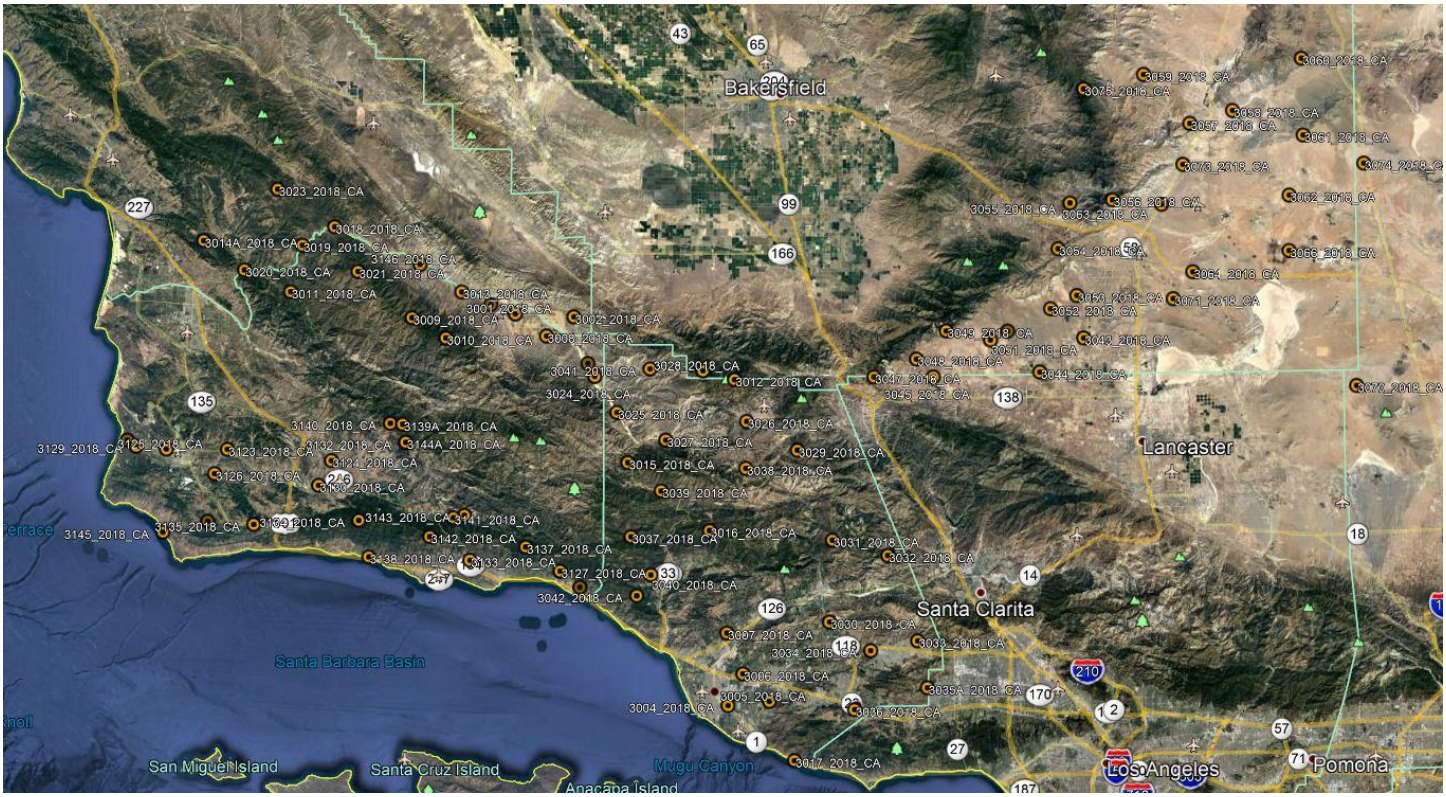
NVA Points



N

Not to Scale

VVA Points



N

Not to Scale