

BM STA 02 - F 1044.txt

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 4, 2018

EW3857 *****

EW3857 DESIGNATION - F 1044

EW3857 PID - EW3857

EW3857 STATE/COUNTY- CA/SANTA BARBARA

EW3857 COUNTRY - US

EW3857 USGS QUAD - CARPINTERIA (1988)

EW3857

EW3857 *CURRENT SURVEY CONTROL

EW3857

EW3857* NAD 83(1986) POSITION- 34 23 17.8 (N) 119 30 48.9 (W) HD_HELD2

EW3857* NAVD 88 ORTHO HEIGHT - 13.000 (meters) 42.65 (feet) ADJUSTED

EW3857

EW3857 GEOID HEIGHT - -35.559 (meters) GEOID12B

EW3857 DYNAMIC HEIGHT - 12.987 (meters) 42.61 (feet) COMP

EW3857 MODELED GRAVITY - 979,603.0 (mgal) NAVD 88

EW3857

EW3857 VERT ORDER - FIRST CLASS I

EW3857

EW3857.The horizontal coordinates were established by autonomous hand held GPS observations and have an estimated accuracy of +/- 10 meters.

EW3857.

EW3857.The orthometric height was determined by differential leveling and

EW3857.adjusted by the NATIONAL GEODETIC SURVEY

EW3857.in June 1991.

EW3857

EW3857.WARNING-Repeat measurements at this control monument indicate possible vertical movement.

EW3857

EW3857.Significant digits in the geoid height do not necessarily reflect accuracy.

EW3857.GEOID12B height accuracy estimate available here.

EW3857

EW3857.The dynamic height is computed by dividing the NAVD 88

EW3857.geopotential number by the normal gravity value computed on the

EW3857.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45

EW3857.degrees latitude (g = 980.6199 gals.).

EW3857

EW3857.The modeled gravity was interpolated from observed gravity values.

EW3857

EW3857; North East Units Estimated Accuracy

EW3857;SPC CA 5 - 599,580. 1,860,821. MT (+/- 10 meters HH2 GPS)

EW3857

EW3857_U.S. NATIONAL GRID SPATIAL ADDRESS: 11SKU6891008072(NAD 83)

EW3857

BM STA 02 - F 1044.txt

SUPERSEDED SURVEY CONTROL

EW3857

EW3857

EW3857 NGVD 29 (??/??/92) 12.208 (m) 40.05 (f) ADJ UNCH 1 1

EW3857

EW3857.Superseded values are not recommended for survey control.

EW3857

EW3857.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.

EW3857.See file dsdata.pdf to determine how the superseded data were derived.

EW3857

EW3857_MARKER: DB = BENCH MARK DISK

EW3857_SETTING: 38 = SET IN THE ABUTMENT OR PIER OF A LARGE BRIDGE

EW3857_SP_SET: ABUTMENT

EW3857_STAMPING: F 1044 1960

EW3857_MARK LOGO: CGS

EW3857_STABILITY: B = PROBABLY HOLD POSITION/ELEVATION WELL

EW3857_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR

EW3857+SATELLITE: SATELLITE OBSERVATIONS - March 27, 1989

EW3857

EW3857	HISTORY	- Date	Condition	Report By
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EW3857	HISTORY	- 1960	MONUMENTED	CGS
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EW3857	HISTORY	- 1969	GOOD	CGS
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EW3857	HISTORY	- 1977	GOOD	NGS
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EW3857	HISTORY	- 19890327	GOOD	NGS
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EW3857	HISTORY	- 19960115	MARK NOT FOUND	USPSQD
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EW3857	HISTORY	- 20080101	GOOD	CADT
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EW3857

EW3857 STATION DESCRIPTION

EW3857

EW3857'DESCRIBED BY COAST AND GEODETIC SURVEY 1960

EW3857'0.8 MI SE FROM CARPINTERIA.

EW3857'0.85 MILE SOUTHEAST ALONG THE SOUTHERN PACIFIC RAILROAD FROM

EW3857'THE STATION AT CARPINTERIA, AT MILEPOLE 382, IN TOP OF THE

EW3857'SOUTH END OF THE EAST SANDSTONE BLOCK ABUTMENT OF A WOODEN

EW3857'BRIDGE, 6.7 FEET SOUTH OF THE SOUTH RAIL, 18.7 FEET SOUTH

EW3857'AND ACROSS THE TRACK FROM BENCH MARK D 29, AND ABOUT 1 FOOT

EW3857'LOWER THAN THE TRACK.

EW3857

EW3857 STATION RECOVERY (1969)

EW3857

EW3857'RECOVERY NOTE BY COAST AND GEODETIC SURVEY 1969

EW3857'RECOVERED IN GOOD CONDITION.

EW3857

EW3857 STATION RECOVERY (1977)

EW3857

EW3857'RECOVERY NOTE BY NATIONAL GEODETIC SURVEY 1977

EW3857'RECOVERED IN GOOD CONDITION.

EW3857

EW3857 STATION RECOVERY (1989)

BM STA 02 - F 1044.txt

EW3857

EW3857'RECOVERY NOTE BY NATIONAL GEODETIC SURVEY 1989

EW3857'RECOVERED IN GOOD CONDITION WITH THE FOLLOWING EXCEPTION.

EW3857'CHANGE--FROM THE STATION AT CARPINTERIA, TO FROM THE JUNCTION OF

EW3857'LINDEN AVENUE IN CARPINTERIA.

EW3857

EW3857 STATION RECOVERY (1996)

EW3857

EW3857'RECOVERY NOTE BY US POWER SQUADRON 1996

EW3857'MARK NOT FOUND.

EW3857

EW3857 STATION RECOVERY (2008)

EW3857

EW3857'RECOVERY NOTE BY CALTRANS 2008 (BM)

EW3857'RECOVERED IN GOOD CONDITION.

*** retrieval complete.

Elapsed Time = 00:00:13

BM STA 06 - W 1441.txt

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 = JUNE 25, 2018

EW9492 *****

EW9492 DESIGNATION - W 1441
EW9492 PID - EW9492
EW9492 STATE/COUNTY- CA/SANTA BARBARA
EW9492 COUNTRY - US
EW9492 USGS QUAD - WHITE LEDGE PEAK (1988)

EW9492

EW9492 *CURRENT SURVEY CONTROL

EW9492

EW9492* NAD 83(1986) POSITION- 34 23 07. (N) 119 29 55. (W) SCALED
EW9492* NAVD 88 ORTHO HEIGHT - 27.020 (meters) 88.65 (feet) ADJUSTED

EW9492

EW9492 GEOID HEIGHT - -35.553 (meters) GEOID12B
EW9492 DYNAMIC HEIGHT - 26.992 (meters) 88.56 (feet) COMP
EW9492 MODELED GRAVITY - 979,605.2 (mgal) NAVD 88

EW9492

EW9492 VERT ORDER - FIRST CLASS II

EW9492

EW9492.The horizontal coordinates were scaled from a topographic map and have
EW9492.an estimated accuracy of +/- 6 seconds.

EW9492.

EW9492.The orthometric height was determined by differential leveling and
EW9492.adjusted by the NATIONAL GEODETIC SURVEY
EW9492.in June 1991.

EW9492

EW9492.Significant digits in the geoid height do not necessarily reflect accuracy.
EW9492.GEOID12B height accuracy estimate available here.

EW9492

EW9492.The dynamic height is computed by dividing the NAVD 88
EW9492.geopotential number by the normal gravity value computed on the
EW9492.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
EW9492.degrees latitude (g = 980.6199 gals.).

EW9492

EW9492.The modeled gravity was interpolated from observed gravity values.

EW9492

EW9492; North East Units Estimated Accuracy
EW9492;SPC CA 5 - 599,230. 1,862,190. MT (+/- 180 meters Scaled)

EW9492

EW9492_U.S. NATIONAL GRID SPATIAL ADDRESS: 11SKU702077(NAD 83)

EW9492

EW9492 SUPERSEDED SURVEY CONTROL

EW9492

EW9492.No superseded survey control is available for this station.

BM STA 06 - W 1441.txt

EW9492

EW9492_MARKER: I = METAL ROD

EW9492_SETTING: 15 = METAL ROD DRIVEN INTO GROUND. SEE TEXT FOR ADDITIONAL
EW9492+WITH SETTING: INFORMATION.

EW9492_STAMPING: W 1441 1989

EW9492_MARK LOGO: NGS

EW9492_MAGNETIC: I = MARKER IS A STEEL ROD

EW9492_STABILITY: B = PROBABLY HOLD POSITION/ELEVATION WELL

EW9492_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR

EW9492+SATELLITE: SATELLITE OBSERVATIONS - 1989

EW9492

EW9492	HISTORY	- Date	Condition	Report By
EW9492	HISTORY	- 1989	MONUMENTED	NGS
EW9492	HISTORY	- 19960115	GOOD	USPSQD

EW9492

EW9492

STATION DESCRIPTION

EW9492

EW9492'DESCRIBED BY NATIONAL GEODETIC SURVEY 1989

EW9492'2.6 KM (1.60 MI) SOUTHEASTERLY ALONG THE SOUTHERN PACIFIC RAILROAD

EW9492'FROM THE JUNCTION OF LINDEN AVENUE IN CARPINTERIA, A METAL ROD

EW9492'DRIVEN 2.1 METERS AND FLUSH WITH THE GROUND, 11.0 M (36.1 FT)

EW9492'NORTH OF THE NEAR RAIL, 7.5 M (24.6 FT) WEST OF THE EXTENDED CENTER OF

EW9492'A TRACK ROAD, 5.7 M (18.7 FT) SOUTH OF THE CENTER OF A TRACK ROAD, 1.2

EW9492'M (3.9 FT) ABOVE THE LEVEL OF THE TRACK, 1.0 M (3.3 FT) WEST OF A

EW9492'UTILITY POLE, AND 0.3 M (1.0 FT) EAST OF A WITNESS POST. NOTE--ACCESS

EW9492'TO THE DATUM POINT IS THROUGH A 5-INCH LOGO CAP.

EW9492

EW9492

STATION RECOVERY (1996)

EW9492

EW9492'RECOVERY NOTE BY US POWER SQUADRON 1996

EW9492'RECOVERED IN GOOD CONDITION.

*** retrieval complete.

Elapsed Time = 00:00:04

BM STA 09 - V1441.txt

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 4, 2018

EW9491 *****

EW9491 DESIGNATION - V 1441

EW9491 PID - EW9491

EW9491 STATE/COUNTY- CA/SANTA BARBARA

EW9491 COUNTRY - US

EW9491 USGS QUAD - CARPINTERIA (1988)

EW9491

EW9491 *CURRENT SURVEY CONTROL

EW9491

EW9491* NAD 83(1986) POSITION- 34 24 03. (N) 119 31 44. (W) SCALED

EW9491* NAVD 88 ORTHO HEIGHT - 4.099 (meters) 13.45 (feet) ADJUSTED

EW9491

EW9491 GEOID HEIGHT - -35.450 (meters) GEOID12B

EW9491 DYNAMIC HEIGHT - 4.095 (meters) 13.44 (feet) COMP

EW9491 MODELED GRAVITY - 979,618.1 (mgal) NAVD 88

EW9491

EW9491 VERT ORDER - FIRST CLASS II

EW9491

EW9491.The horizontal coordinates were scaled from a topographic map and have an estimated accuracy of +/- 6 seconds.

EW9491.

EW9491.The orthometric height was determined by differential leveling and adjusted by the NATIONAL GEODETIC SURVEY

EW9491.in June 1991.

EW9491

EW9491.Significant digits in the geoid height do not necessarily reflect accuracy. GEOID12B height accuracy estimate available here.

EW9491

EW9491.The dynamic height is computed by dividing the NAVD 88 geopotential number by the normal gravity value computed on the Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45 degrees latitude (g = 980.6199 gals.).

EW9491

EW9491.The modeled gravity was interpolated from observed gravity values.

EW9491

EW9491; North East Units Estimated Accuracy
EW9491;SPC CA 5 - 600,990. 1,859,440. MT (+/- 180 meters Scaled)

EW9491

EW9491_U.S. NATIONAL GRID SPATIAL ADDRESS: 11SKU675095(NAD 83)

EW9491

EW9491 SUPERSEDED SURVEY CONTROL

EW9491

EW9491.No superseded survey control is available for this station.

BM STA 09 - V1441.txt

EW9491

EW9491_MARKER: I = METAL ROD

EW9491_SETTING: 49 = STAINLESS STEEL ROD W/O SLEEVE (10 FT.+)

EW9491_STAMPING: V 1441 1989

EW9491_MARK LOGO: NGS

EW9491_PROJECTION: FLUSH

EW9491_MAGNETIC: I = MARKER IS A STEEL ROD

EW9491_STABILITY: A = MOST RELIABLE AND EXPECTED TO HOLD

EW9491+STABILITY: POSITION/ELEVATION WELL

EW9491_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR

EW9491+SATELLITE: SATELLITE OBSERVATIONS - March 01, 2008

EW9491_ROD/PIPE-DEPTH: 13.4 meters

EW9491

EW9491	HISTORY	- Date	Condition	Report By
EW9491	HISTORY	- 1989	MONUMENTED	NGS
EW9491	HISTORY	- 19960115	GOOD	USPSQD
EW9491	HISTORY	- 20051102	GOOD	CADT
EW9491	HISTORY	- 20080301	GOOD	CADT

EW9491

STATION DESCRIPTION

EW9491

EW9491'DESCRIBED BY NATIONAL GEODETIC SURVEY 1989

EW9491'IN CARPINTERIA, AT THE INTERSECTION OF THE SOUTHERN PACIFIC RAILROAD
EW9491'AND SANDYLAND COVE ROAD, 29.5 M (96.8 FT) EAST OF THE CENTER OF THE
EW9491'ROAD, 9.2 M (30.2 FT) NORTH OF THE NEAR RAIL, 5.6 M (18.4 FT) SOUTH OF
EW9491'A FENCE, 0.8 M (2.6 FT) WEST OF A UTILITY POLE, 0.7 M (2.3 FT) BELOW
EW9491'THE LEVEL OF THE TRACK, AND 0.3 M (1.0 FT) EAST OF A WITNESS POST.

EW9491'NOTE--ACCESS TO THE DATUM POINT IS THROUGH A 5-INCH LOGO CAP.

EW9491

STATION RECOVERY (1996)

EW9491

EW9491'RECOVERY NOTE BY US POWER SQUADRON 1996

EW9491'RECOVERED IN GOOD CONDITION.

EW9491

STATION RECOVERY (2005)

EW9491

EW9491'RECOVERY NOTE BY CALTRANS 2005 (GAS)

EW9491'RECOVERED IN GOOD CONDITION.

EW9491

STATION RECOVERY (2008)

EW9491

EW9491'RECOVERY NOTE BY CALTRANS 2008 (BM)

EW9491'RECOVERED IN GOOD CONDITION.

*** retrieval complete.

Elapsed Time = 00:00:04

CASN (01).txt

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 4, 2018

DP2483 *****

DP2483 CORS - This is a GPS Continuously Operating Reference Station.

DP2483 DESIGNATION - SANTA BARBARA CORS ARP

DP2483 CORS_ID - CASN

DP2483 PID - DP2483

DP2483 STATE/COUNTY- CA/SANTA BARBARA

DP2483 COUNTRY - US

DP2483 USGS QUAD - GOLETA (1988)

DP2483

DP2483 *CURRENT SURVEY CONTROL

DP2483

DP2483* NAD 83(2011) POSITION- 34 24 56.46395(N) 119 50 42.98110(W) ADJUSTED

DP2483* NAD 83(2011) ELLIP HT- 4.139 (meters) (04/??/14) ADJUSTED

DP2483* NAD 83(2011) EPOCH - 2010.00

DP2483

DP2483 GEOID HEIGHT - -35.992 (meters) GEOID12B

DP2483 NAD 83(2011) X - -2,621,341.044 (meters) COMP

DP2483 NAD 83(2011) Y - -4,568,744.775 (meters) COMP

DP2483 NAD 83(2011) Z - 3,584,582.181 (meters) COMP

DP2483

DP2483. Formal positional accuracy estimates are not available for this CORS

DP2483. because its coordinates were determined in part using modeled

DP2483. velocities. Approximate one-sigma accuracies for latitude, longitude,

DP2483. and ellipsoid height can be obtained from the short-term time series.

DP2483. Additional information regarding modeled velocities is available on

DP2483. the CORS Coordinates and Multi-Year CORS Solution FAQ web pages.

DP2483

DP2483. The coordinates were established by GPS observations

DP2483. and adjusted by the National Geodetic Survey in April 2014.

DP2483

DP2483. NAD 83(2011) refers to NAD 83 coordinates where the reference frame has

DP2483. been affixed to the stable North American Tectonic Plate.

DP2483

DP2483. The coordinates are valid at the epoch date displayed above

DP2483. which is a decimal equivalence of Year/Month/Day.

DP2483

DP2483. Significant digits in the geoid height do not necessarily reflect accuracy.

DP2483. GEOID12B height accuracy estimate available here.

DP2483

DP2483. The PID for the CORS L1 Phase Center is DP2484.

DP2483

DP2483. The XYZ, and position/ellipsoidal ht. are equivalent.

DP2483

CASN (01).txt

DP2483.The ellipsoidal height was determined by GPS observations
DP2483.and is referenced to NAD 83.

DP2483

DP2483. The following values were computed from the NAD 83(2011) position.

DP2483

DP2483;		North	East	Units	Scale Factor	Converg.
DP2483;SPC CA 5	-	603,129.004	1,830,379.619	MT	0.99993916	-1 03 06.6
DP2483;SPC CA 5	-	1,978,765.74	6,005,170.47	sFT	0.99993916	-1 03 06.6
DP2483;UTM 11	-	3,811,919.480	238,492.932	MT	1.00044302	-1 36 32.5

DP2483

DP2483!	-	Elev Factor	x	Scale Factor	=	Combined Factor
DP2483!SPC CA 5	-	0.99999935	x	0.99993916	=	0.99993851
DP2483!UTM 11	-	0.99999935	x	1.00044302	=	1.00044237

DP2483

DP2483_U.S. NATIONAL GRID SPATIAL ADDRESS: 11SKU3849211919(NAD 83)

DP2483

DP2483

SUPERSEDED SURVEY CONTROL

DP2483

DP2483.No superseded survey control is available for this station.

DP2483

DP2483_MARKER: STATION IS THE ANTENNA REFERENCE POINT OF THE GPS ANTENNA

DP2483

DP2483

STATION DESCRIPTION

DP2483

DP2483'DESCRIBED BY NATIONAL GEODETIC SURVEY 2014

DP2483'STATION IS A GPS CORS. LATEST INFORMATION INCLUDING POSITIONS AND

DP2483'VELOCITIES ARE AVAILABLE IN THE COORDINATE AND LOG FILES ACCESSIBLE

DP2483'BY ANONYMOUS FTP OR THE WORLDWIDE WEB.

DP2483' <ftp://cors.ngs.noaa.gov/cors/README.txt>

DP2483' ftp://cors.ngs.noaa.gov/cors/coord/coord_08

DP2483' ftp://cors.ngs.noaa.gov/cors/station_log

DP2483' <http://geodesy.noaa.gov/CORS>

*** retrieval complete.

Elapsed Time = 00:00:03

CASN (02) - velocity.txt
IGS 08

SANTA BARBARA (CASN), CALIFORNIA

Retrieved from NGS DataBase on 04/17/14 at 14:38:39.

Antenna Reference Point(ARP): SANTA BARBARA CORS ARP

PID = DP2483

IGS08 POSITION (EPOCH 2005.0)

Computed in Apr 2014 using 31 days of data.

X = -2621341.660 m	latitude = 34 24 56.47309 N
Y = -4568743.618 m	longitude = 119 50 43.02456 W
Z = 3584582.045 m	ellipsoid height = 3.486 m

IGS08 VELOCITY

Predicted with HTDP_3.2.3 Apr 2014.

VX = -0.0305 m/yr	northward = 0.0195 m/yr
VY = 0.0302 m/yr	eastward = -0.0415 m/yr
VZ = 0.0161 m/yr	upward = 0.0000 m/yr

NAD_83 (2011) POSITION (EPOCH 2010.0)

Transformed from IGS08 (epoch 2005.0) position in Apr 2014.

X = -2621341.044 m	latitude = 34 24 56.46395 N
Y = -4568744.775 m	longitude = 119 50 42.98110 W
Z = 3584582.181 m	ellipsoid height = 4.139 m

NAD_83 (2011) VELOCITY

Transformed from IGS08 velocity in Apr 2014.

VX = -0.0151 m/yr	northward = 0.0318 m/yr
VY = 0.0306 m/yr	eastward = -0.0283 m/yr
VZ = 0.0255 m/yr	upward = -0.0013 m/yr

L1 Phase Center of the current GPS antenna: SANTA BARBARA CORS L1 PC C

The External geodetic antenna, SmartTrack+ w antenna

(Antenna Code = LEIAS10 NONE) was installed on 03Mar2011.

The L2 phase center is 0.003 m below the L1 phase center.

PID = DP2484

IGS08 POSITION (EPOCH 2005.0)

Computed in Apr 2014 using 31 days of data.

X = -2621341.683 m	latitude = 34 24 56.47306 N
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CASN (02) - velocity.txt
Y = -4568743.661 m longitude = 119 50 43.02451 W
Z = 3584582.077 m ellipsoid height = 3.545 m
```

The IGS08 VELOCITY of the L1 PC is the same as that for the ARP.

NAD_83 (2011) POSITION (EPOCH 2010.0)

Transformed from IGS08 (epoch 2005.0) position in Apr 2014.

```
X = -2621341.067 m latitude = 34 24 56.46392 N
Y = -4568744.818 m longitude = 119 50 42.98105 W
Z = 3584582.213 m ellipsoid height = 4.197 m
```

The NAD_83 (2011) VELOCITY of the L1 PC is the same as that for the ARP.

- * Latitude, longitude and ellipsoid height are computed from their corresponding cartesian coordinates using dimensions for the GRS 80 ellipsoid: semi-major axis = 6,378,137.0 meters
flattening = 1/298.257222101...
- * WARNING: Mixing of antenna types can lead to errors of up to 10 cm. in height unless antenna-phase-center variation and antenna-phase-center offset are properly modeled. See next comment.
- * The coordinates shown on this page were computed using absolute antenna calibrations. CORS coordinates began using absolute antenna calibrations beginning with IGS08 and NAD 83 (2011, MA11, PA11). For additional information on the derivation of these positions and velocities and antenna calibrations consult:
<http://geodesy.noaa.gov/CORS/coords.shtml>
<http://geodesy.noaa.gov/ANTCAL>
- * For more site specific information on the equipment history and monumentation type consult:
ftp://geodesy.noaa.gov/cors/station_log/casn.log.txt
http://geodesy.noaa.gov/cgi-cors/corsage_2.prl?site=casn

CASN (03) - HTDP 2010.00-2017.50.txt

HTDP Output

HTDP (VERSION v3.2.5) OUTPUT

TRANSFORMING POSITIONS FROM NAD_83(2011/CORS96/2007) (EPOCH = 01-01-2010
(2010.0000))

TO NAD_83(2011/CORS96/2007) (EPOCH = 07-02-2017
(2017.5000))

CASN

LATITUDE	34 24 56.46395 N	34 24 56.47168 N	31.80 mm/yr	north
LONGITUDE	119 50 42.98110 W	119 50 42.98944 W	-28.30 mm/yr	east
ELLIP. HT.	4.139	4.129 m	-1.30 mm/yr	up
X	-2621341.044	-2621341.158 m	-15.07 mm/yr	
Y	-4568744.775	-4568744.545 m	30.60 mm/yr	
Z	3584582.181	3584582.372 m	25.50 mm/yr	

COPR - GRM.txt

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 = JUNE 29, 2018

DH6817 *****

DH6817 DESIGNATION - COPR GRM

DH6817 PID - DH6817

DH6817 STATE/COUNTY- CA/SANTA BARBARA

DH6817 COUNTRY - US

DH6817 USGS QUAD - DOS PUEBLOS CANYON (1988)

DH6817

DH6817 *CURRENT SURVEY CONTROL

DH6817

DH6817* NAD 83(1986) POSITION- 34 24 53.67 (N) 119 52 46.30 (W) HD_HELD1

DH6817* NAVD 88 ORTHO HEIGHT - 13.823 (meters) 45.35 (feet) ADJUSTED

DH6817

DH6817 GEOID HEIGHT - -36.067 (meters) GEOID12B

DH6817 DYNAMIC HEIGHT - 13.809 (meters) 45.31 (feet) COMP

DH6817 MODELED GRAVITY - 979,626.1 (mgal) NAVD 88

DH6817

DH6817 VERT ORDER - SECOND CLASS II

DH6817

DH6817.The horizontal coordinates were determined by differentially corrected DH6817.hand held GPS observations or other comparable positioning techniques DH6817.and have an estimated accuracy of +/- 3 meters.

DH6817.

DH6817.The orthometric height was determined by differential leveling and DH6817.adjusted by the NATIONAL GEODETIC SURVEY

DH6817.in April 2006.

DH6817

DH6817.No vertical observational check was made to the station.

DH6817

DH6817.Significant digits in the geoid height do not necessarily reflect accuracy.

DH6817.GEOID12B height accuracy estimate available here.

DH6817

DH6817.The dynamic height is computed by dividing the NAVD 88

DH6817.geopotential number by the normal gravity value computed on the

DH6817.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45

DH6817.degrees latitude (g = 980.6199 gals.).

DH6817

DH6817.The modeled gravity was interpolated from observed gravity values.

DH6817

DH6817; North East Units Estimated Accuracy

DH6817;SPC CA 5 - 603,101.3 1,827,229.6 MT (+/- 3 meters HH1 GPS)

DH6817

DH6817_U.S. NATIONAL GRID SPATIAL ADDRESS: 11SKU3534111922(NAD 83)

DH6817

COPR - GRM.txt
SUPERSEDED SURVEY CONTROL

DH6817

DH6817

DH6817.No superseded survey control is available for this station.

DH6817

DH6817_MARKER: Z = SEE DESCRIPTION

DH6817_SETTING: 0 = UNSPECIFIED SETTING

DH6817_SP_SET: CGPS SITE DB MONUMENT

DH6817_STAMPING: COPR ECC

DH6817_MAGNETIC: N = NO MAGNETIC MATERIAL

DH6817_STABILITY: D = MARK OF QUESTIONABLE OR UNKNOWN STABILITY

DH6817_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR

DH6817+SATELLITE: SATELLITE OBSERVATIONS - October 05, 2004

DH6817

DH6817	HISTORY	- Date	Condition	Report By
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DH6817	HISTORY	- 1991	MONUMENTED	USGS
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DH6817	HISTORY	- 20041005	GOOD	JOHFRA
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DH6817

DH6817

STATION DESCRIPTION

DH6817

DH6817'DESCRIBED BY JOHNSON-FRANK 2004 (MSP)

DH6817'COPR IS A CONTINUOUS GPS (CGPS) SITE LOCATED AT THE UNIVERSITY OF

DH6817'CALIFORNIA, SANTA BARBARA, RESEARCH STATION IN GOLETA, CA. IT IS A

DH6817'SOUTHERN CALIFORNIA INTEGRATED GPS NETWORK (SCIGN) CONTINUOUS GPS

DH6817'(CGPS) MONUMENT. IT IS A WYATT-AGNEW DRILLED BRACED MONUMENT .

DH6817'MOUNTED ON THIS MONUMENT IS A SCIGN ANTENNA ADAPTOR (DETAILED MACHINED

DH6817'SPECIFICATIONS FOR THIS DRILLED BRACED MONUMENT AND ADAPTOR ARE

DH6817'AVAILABLE ON THE SCIGN/USGS WEBSITES) WITH A STANDARD GEODETIC

DH6817'REFERENCE MARK (GRM) ON THE BOTTOM HALF OF THE ADAPTOR, WHICH IS

DH6817'PERMANENTLY INSTALLED ON THE MONUMENT. THE ELEVATION AT THE BOTTOM OF

DH6817'THE ANTENNA (COMMONLY REFERED TO AS THE BASE OF THE PREAMP OR BPA) IS

DH6817'AN ADDITIONAL 0.0083 M (0.0272 US FT). DAILY GPS DATA AND MORE

DH6817'INFORMATION ON THIS SITE IS AVAILABLE AT [HTTP//CSRC.UCS.D.EDU](http://CSRC.UCS.D.EDU).

*** retrieval complete.

Elapsed Time = 00:00:04

COPR.txt

The NGS Data Sheet

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

PROGRAM = datasheet95, VERSION = 8.12.4.1

1 National Geodetic Survey, Retrieval Date = MAY 8, 2018

DL7686

DL7686 CORS - This is a GPS Continuously Operating Reference Station.

DL7686 DESIGNATION - COPR_SCGN_CS2001 CORS ARP

DL7686 CORS_ID - COPR

DL7686 PID - DL7686

DL7686 STATECOUNTY- CASANTA BARBARA

DL7686 COUNTRY - US

DL7686 USGS QUAD - DOS PUEBLOS CANYON (1988)

DL7686

DL7686 CURRENT SURVEY CONTROL

DL7686

DL7686 NAD 83(2011) POSITION- 34 24 53.65536(N) 119 52 46.24277(W) ADJUSTED

DL7686 NAD 83(2011) ELLIP HT- -22.196 (meters) (0811) ADJUSTED

DL7686 NAD 83(2011) EPOCH - 2010.00

DL7686

DL7686 GEOID HEIGHT - -36.067 (meters) GEOID12B

DL7686 NAD 83(2011) X - -2,624,084.354 (meters) COMP

DL7686 NAD 83(2011) Y - -4,567,201.048 (meters) COMP

DL7686 NAD 83(2011) Z - 3,584,495.902 (meters) COMP

DL7686

DL7686. Formal positional accuracy estimates are not available for this CORS because its coordinates were determined in part using modeled velocities. Approximate one-sigma accuracies for latitude, longitude, and ellipsoid height can be obtained from the short-term time series. Additional information regarding modeled velocities is available on the CORS Coordinates and Multi-Year CORS Solution FAQ web pages.

DL7686

DL7686. The coordinates were established by GPS observations and adjusted by the National Geodetic Survey in August 2011.

DL7686

DL7686. NAD 83(2011) refers to NAD 83 coordinates where the reference frame has been affixed to the stable North American Tectonic Plate.

DL7686

DL7686. The coordinates are valid at the epoch date displayed above which is a decimal equivalence of YearMonthDay.

DL7686

DL7686. Significant digits in the geoid height do not necessarily reflect accuracy. GEOID12B height accuracy estimate available here.

DL7686

DL7686. The PID for the CORS L1 Phase Center is DQ6779.

DL7686

DL7686. The XYZ, and positionellipsoidal ht. are equivalent.

DL7686

COPR.txt

DL7686.The ellipsoidal height was determined by GPS observations
DL7686.and is referenced to NAD 83.

DL7686

DL7686. The following values were computed from the NAD 83(2011) position.

DL7686

DL7686;		North	East	Units	Scale Factor	Converg.
DL7686;SPC CA 5	-	603,100.795	1,827,231.029	MT	0.99993924	-1 04 16.8
DL7686;SPC CA 5	-	1,978,673.19	5,994,840.47	sFT	0.99993924	-1 04 16.8
DL7686;UTM 11	-	3,811,921.889	235,342.597	MT	1.00046346	-1 37 42.2

DL7686

DL7686!	-	Elev Factor	x	Scale Factor	=	Combined Factor
DL7686!SPC CA 5	-	1.00000348	x	0.99993924	=	0.99994272
DL7686!UTM 11	-	1.00000348	x	1.00046346	=	1.00046695

DL7686

DL7686_U.S. NATIONAL GRID SPATIAL ADDRESS 11SKU3534211921(NAD 83)

DL7686

SUPERSEDED SURVEY CONTROL

DL7686

DL7686	NAD 83(CORS)-	34 24 53.64709(N)	119 52 46.23331(W)	AD(2002.00) c
DL7686	ELLIP H (0510)	-22.188 (m)		GP(2002.00) c c

DL7686

DL7686.Superseded values are not recommended for survey control.

DL7686

DL7686.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.
DL7686.See file dsdata.pdf to determine how the superseded data were derived.

DL7686

DL7686_MARKER STATION IS THE ANTENNA REFERENCE POINT OF THE GPS ANTENNA

DL7686

STATION DESCRIPTION

DL7686

DL7686'DESCRIBED BY NATIONAL GEODETIC SURVEY 2011

DL7686'STATION IS A GPS CORS. LATEST INFORMATION INCLUDING POSITIONS AND
DL7686'VELOCITIES ARE AVAILABLE IN THE COORDINATE AND LOG FILES ACCESSIBLE
DL7686'BY ANONYMOUS FTP OR THE WORLDWIDE WEB.

- DL7686' ftpcors.ngs.noaa.govcorsREADME.txt
- DL7686' ftpcors.ngs.noaa.govcorscoordcoord_08
- DL7686' ftpcors.ngs.noaa.govcorsstation_log
- DL7686' httpgeodesy.noaa.govCORS

1 National Geodetic Survey, Retrieval Date = MAY 8, 2018

DL7688

DL7688	CORS	- This is a GPS Continuously Operating Reference Station.
DL7688	DESIGNATION	- COPR_SCGN_CS2001 GRP
DL7688	CORS_ID	- COPR
DL7688	PID	- DL7688
DL7688	STATECOUNTY-	CASANTA BARBARA
DL7688	COUNTRY	- US
DL7688	USGS QUAD	- DOS PUEBLOS CANYON (1988)
DL7688		

COPR.txt

CURRENT SURVEY CONTROL

DL7688

DL7688

DL7688 NAD 83(2011) POSITION- 34 24 53.65536(N) 119 52 46.24277(W) ADJUSTED

DL7688 NAD 83(2011) ELLIP HT- -22.204 (meters) (0811) ADJUSTED

DL7688 NAD 83(2011) EPOCH - 2010.00

DL7688

DL7688 GEOID HEIGHT - -36.067 (meters) GEOID12B

DL7688 NAD 83(2011) X - -2,624,084.351 (meters) COMP

DL7688 NAD 83(2011) Y - -4,567,201.042 (meters) COMP

DL7688 NAD 83(2011) Z - 3,584,495.897 (meters) COMP

DL7688 LAPLACE CORR - 3.00 (seconds) DEFLEC12B

DL7688

DL7688. Formal positional accuracy estimates are not available for this CORS

DL7688. because its coordinates were determined in part using modeled

DL7688. velocities. Approximate one-sigma accuracies for latitude, longitude,

DL7688. and ellipsoid height can be obtained from the short-term time series.

DL7688. Additional information regarding modeled velocities is available on

DL7688. the CORS Coordinates and Multi-Year CORS Solution FAQ web pages.

DL7688

DL7688. The horizontal coordinates were established by GPS observations

DL7688. and adjusted by the National Geodetic Survey in August 2011.

DL7688

DL7688. NAD 83(2011) refers to NAD 83 coordinates where the reference frame has

DL7688. been affixed to the stable North American Tectonic Plate.

DL7688

DL7688. The horizontal coordinates are valid at the epoch date displayed above

DL7688. which is a decimal equivalence of YearMonthDay.

DL7688

DL7688. Significant digits in the geoid height do not necessarily reflect accuracy.

DL7688. GEOID12B height accuracy estimate available here.

DL7688

DL7688. The XYZ, and positionellipsoidal ht. are equivalent.

DL7688

DL7688. The Laplace correction was computed from DEFLEC12B derived deflections.

DL7688

DL7688. The ellipsoidal height was determined by GPS observations

DL7688. and is referenced to NAD 83.

DL7688

DL7688. The following values were computed from the NAD 83(2011) position.

DL7688

DL7688;

	North	East	Units	Scale Factor	Converg.
DL7688; SPC CA 5	- 603,100.795	1,827,231.029	MT	0.99993924	-1 04 16.8
DL7688; SPC CA 5	- 1,978,673.19	5,994,840.47	sFT	0.99993924	-1 04 16.8
DL7688; UTM 11	- 3,811,921.889	235,342.597	MT	1.00046346	-1 37 42.2

DL7688

DL7688!

	Elev Factor	x	Scale Factor	=	Combined Factor
DL7688! SPC CA 5	- 1.00000349	x	0.99993924	=	0.99994273
DL7688! UTM 11	- 1.00000349	x	1.00046346	=	1.00046695

COPR.txt

DL7688

DL7688_U.S. NATIONAL GRID SPATIAL ADDRESS 11SKU3534211921(NAD 83)

DL7688

DL7688

SUPERSEDED SURVEY CONTROL

DL7688

DL7688 NAD 83(CORS)- 34 24 53.64709(N) 119 52 46.23331(W) AD(2002.00) A

DL7688 ELLIP H (0510) -22.196 (m) GP(2002.00) 4 1

DL7688

DL7688.Superseded values are not recommended for survey control.

DL7688

DL7688.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.

DL7688.See file dsdata.pdf to determine how the superseded data were derived.

DL7688

DL7688_STAMPING UNKNOWN

DL7688

DL7688

STATION DESCRIPTION

DL7688

DL7688'THIS MONUMENT IS ASSOCIATED WITH CORS SITE 'COPR'

DL7688'LATEST INFORMATION INCLUDING POSITIONS AND VELOCITIES

DL7688'ARE AVAILABLE IN THE COORDINATE AND LOG FILES ACCESSIBLE

DL7688'BY ANONYMOUS FTP OR THE WORLDWIDE WEB.

DL7688' ftpcors.ngs.noaa.govcorsREADME.txt

DL7688' ftpcors.ngs.noaa.govcorscoordcoord_08

DL7688' ftpcors.ngs.noaa.govcorsstation_log

DL7688' httpgeodesy.noaa.govCORS

retrieval complete.

Elapsed Time = 000003

CSST GRP.txt

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 = AUGUST 21, 2018

DN5632 *****

DN5632 CORS - This is a GPS Continuously Operating Reference Station.

DN5632 DESIGNATION - CSST_SCGN_CS2000 GRP

DN5632 CORS_ID - CSST

DN5632 PID - DN5632

DN5632 STATE/COUNTY- CA/VENTURA

DN5632 COUNTRY - US

DN5632 USGS QUAD - MATILIJA (1988)

DN5632

DN5632 *CURRENT SURVEY CONTROL

DN5632

DN5632* NAD 83(2011) POSITION- 34 24 29.11344(N) 119 22 16.45027(W) ADJUSTED

DN5632* NAD 83(2011) ELLIP HT- 163.164 (meters) (01/??/12) ADJUSTED

DN5632* NAD 83(2011) EPOCH - 2010.00

DN5632

DN5632 GEOID HEIGHT - -34.936 (meters) GEOID12B

DN5632 NAD 83(2011) X - -2,583,750.224 (meters) COMP

DN5632 NAD 83(2011) Y - -4,590,805.213 (meters) COMP

DN5632 NAD 83(2011) Z - 3,583,976.758 (meters) COMP

DN5632 LAPLACE CORR - -0.28 (seconds) DEFLEC12B

DN5632

DN5632. Formal positional accuracy estimates are not available for this CORS

DN5632. because its coordinates were determined in part using modeled

DN5632. velocities. Approximate one-sigma accuracies for latitude, longitude,

DN5632. and ellipsoid height can be obtained from the short-term time series.

DN5632. Additional information regarding modeled velocities is available on

DN5632. the CORS Coordinates and Multi-Year CORS Solution FAQ web pages.

DN5632

DN5632. The horizontal coordinates were established by GPS observations

DN5632. and adjusted by the National Geodetic Survey in January 2012.

DN5632

DN5632. NAD 83(2011) refers to NAD 83 coordinates where the reference frame has

DN5632. been affixed to the stable North American Tectonic Plate.

DN5632

DN5632. The horizontal coordinates are valid at the epoch date displayed above

DN5632. which is a decimal equivalence of Year/Month/Day.

DN5632

DN5632. Significant digits in the geoid height do not necessarily reflect accuracy.

DN5632. GEOID12B height accuracy estimate available here.

DN5632

DN5632. The XYZ, and position/ellipsoidal ht. are equivalent.

DN5632

DN5632. The Laplace correction was computed from DEFLEC12B derived deflections.

CSST GRP.txt

DN5632

DN5632.The ellipsoidal height was determined by GPS observations
DN5632.and is referenced to NAD 83.

DN5632

DN5632. The following values were computed from the NAD 83(2011) position.

DN5632

DN5632;		North	East	Units	Scale Factor	Converg.
DN5632;SPC CA 5	-	601,589.170	1,873,939.126	MT	0.99993994	-0 46 53.8
DN5632;SPC CA 5	-	1,973,713.80	6,148,081.95	sFT	0.99993994	-0 46 53.8
DN5632;UTM 11	-	3,809,954.759	282,051.525	MT	1.00018555	-1 20 25.7

DN5632

DN5632!	-	Elev Factor	x	Scale Factor	=	Combined Factor
DN5632!SPC CA 5	-	0.99997439	x	0.99993994	=	0.99991433
DN5632!UTM 11	-	0.99997439	x	1.00018555	=	1.00015993

DN5632

DN5632_U.S. NATIONAL GRID SPATIAL ADDRESS: 11SKU8205109954(NAD 83)

DN5632

DN5632

SUPERSEDED SURVEY CONTROL

DN5632

DN5632	NAD 83(CORS)-	34 24 29.10586(N)	119 22 16.44178(W)	AD(2002.00)	A
DN5632	ELLIP H (01/??/12)	163.161 (m)		GP(2002.00)	4 1

DN5632

DN5632.Superseded values are not recommended for survey control.

DN5632

DN5632.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.

DN5632.See file dsdata.pdf to determine how the superseded data were derived.

DN5632

DN5632_STAMPING: UNKNOWN

DN5632

DN5632

STATION DESCRIPTION

DN5632

DN5632'THIS MONUMENT IS ASSOCIATED WITH CORS SITE 'CSST'

DN5632'LATEST INFORMATION INCLUDING POSITIONS AND VELOCITIES

DN5632'ARE AVAILABLE IN THE COORDINATE AND LOG FILES ACCESSIBLE

DN5632'BY ANONYMOUS FTP OR THE WORLDWIDE WEB.

DN5632' ftp://cors.ngs.noaa.gov/cors/README.txt

DN5632' ftp://cors.ngs.noaa.gov/cors/coord/coord_08

DN5632' ftp://cors.ngs.noaa.gov/cors/station_log

DN5632' http://geodesy.noaa.gov/CORS

*** retrieval complete.

Elapsed Time = 00:00:04

STA 01 - HPGN CA 05 01.txt

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 4, 2018

EW9544 *****

EW9544 FBN - This is a Federal Base Network Control Station.

EW9544 DESIGNATION - HPGN CA 05 01

EW9544 PID - EW9544

EW9544 STATE/COUNTY- CA/SANTA BARBARA

EW9544 COUNTRY - US

EW9544 USGS QUAD - CARPINTERIA (1988)

EW9544

EW9544 *CURRENT SURVEY CONTROL

EW9544

EW9544* NAD 83(2011) POSITION- 34 25 13.66039(N) 119 36 21.83503(W) ADJUSTED

EW9544* NAD 83(2011) ELLIP HT- 6.599 (meters) (06/27/12) ADJUSTED

EW9544* NAD 83(2011) EPOCH - 2010.00

EW9544* NAVD 88 ORTHO HEIGHT - 42.1 (meters) 138. (feet) GPS OBS

EW9544

EW9544 NAVD 88 orthometric height was determined with geoid model GEOID99

EW9544 GEOID HEIGHT - -35.396 (meters) GEOID99

EW9544 GEOID HEIGHT - -35.429 (meters) GEOID12B

EW9544 NAD 83(2011) X - -2,602,096.991 (meters) COMP

EW9544 NAD 83(2011) Y - -4,579,390.264 (meters) COMP

EW9544 NAD 83(2011) Z - 3,585,020.696 (meters) COMP

EW9544 LAPLACE CORR - 4.36 (seconds) DEFLEC12B

EW9544

EW9544 Network accuracy estimates per FGDC Geospatial Positioning Accuracy

EW9544 Standards:

	FGDC (95% conf, cm)		Standard deviation (cm)			CorrNE (unitless)
	Horiz	Ellip	SD_N	SD_E	SD_h	

NETWORK	0.41	1.53	0.18	0.15	0.78	-0.02336368
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EW9544

EW9544 [Click here for local accuracies and other accuracy information.](#)

EW9544

EW9544

EW9544.The horizontal coordinates were established by GPS observations

EW9544.and adjusted by the National Geodetic Survey in June 2012.

EW9544

EW9544.NAD 83(2011) refers to NAD 83 coordinates where the reference frame has

EW9544.been affixed to the stable North American tectonic plate. See

EW9544.NA2011 for more information.

EW9544

EW9544.The horizontal coordinates are valid at the epoch date displayed above

EW9544.which is a decimal equivalence of Year/Month/Day.

EW9544

STA 01 - HPGN CA 05 01.txt

EW9544.The orthometric height was determined by GPS observations and a
EW9544.high-resolution geoid model.

EW9544

EW9544.Significant digits in the geoid height do not necessarily reflect accuracy.
EW9544.GEOID12B height accuracy estimate available here.

EW9544

EW9544.The X, Y, and Z were computed from the position and the ellipsoidal ht.
EW9544

EW9544.The Laplace correction was computed from DEFLEC12B derived deflections.
EW9544

EW9544.The ellipsoidal height was determined by GPS observations
EW9544.and is referenced to NAD 83.

EW9544

EW9544. The following values were computed from the NAD 83(2011) position.

EW9544

EW9544;		North	East	Units	Scale	Factor	Converg.
EW9544;SPC CA 5	-	603,281.296	1,852,374.384	MT	0.99993867	-0 54	55.7
EW9544;SPC CA 5	-	1,979,265.39	6,077,331.62	sFT	0.99993867	-0 54	55.7
EW9544;UTM 11	-	3,811,857.622	260,497.708	MT	1.00030710	-1 28	25.7

EW9544

EW9544! - Elev Factor x Scale Factor = Combined Factor

EW9544!SPC CA 5 - 0.99999896 x 0.99993867 = 0.99993763

EW9544!UTM 11 - 0.99999896 x 1.00030710 = 1.00030606

EW9544

EW9544_U.S. NATIONAL GRID SPATIAL ADDRESS: 11SKU6049711857(NAD 83)

EW9544

EW9544 SUPERSEDED SURVEY CONTROL

EW9544

EW9544	NAD 83(2007)-	34 25 13.65805(N)	119 36 21.83255(W)	AD(2007.00)	0
EW9544	ELLIP H (02/10/07)	6.646 (m)		GP(2007.00)	
EW9544	NAD 83(1998)-	34 25 13.64884(N)	119 36 21.82224(W)	AD(1998.50)	A
EW9544	ELLIP H (04/06/00)	6.626 (m)		GP(1998.50)	3 1
EW9544	NAD 83(1994)-	34 25 13.64520(N)	119 36 21.81787(W)	AD(1995.00)	B
EW9544	ELLIP H (06/23/95)	6.640 (m)		GP(1995.00)	4 2
EW9544	ELLIP H (01/07/94)	6.695 (m)		GP()	3 2
EW9544	NAD 83(1986)-	34 25 13.64712(N)	119 36 21.79726(W)	AD(1984.00)	1
EW9544	NAD 83(1992)-	34 25 13.64200(N)	119 36 21.81244(W)	AD(1991.35)	B
EW9544	ELLIP H (05/15/92)	6.695 (m)		GP(1991.35)	4 2
EW9544	NAVD 88 (09/20/94)	42.0 (m)	UNKNOWN model used	GPS OBS	
EW9544	NAVD 88	42.04 (m)	137.9 (f)	LEVELING	3

EW9544

EW9544.Superseded values are not recommended for survey control.

EW9544

EW9544.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.

EW9544.See file dsdata.pdf to determine how the superseded data were derived.

EW9544

EW9544_MARKER: DD = SURVEY DISK

EW9544_SETTING: 50 = ALUMINUM ALLOY ROD W/O SLEEVE (10 FT.+)

STA 01 - HPGN CA 05 01.txt

EW9544_STAMPING: HPGN-CALF. STA 05-01 1990

EW9544_MARK LOGO: CADT

EW9544_PROJECTION: FLUSH

EW9544_MAGNETIC: N = NO MAGNETIC MATERIAL

EW9544_STABILITY: B = PROBABLY HOLD POSITION/ELEVATION WELL

EW9544_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR

EW9544+SATELLITE: SATELLITE OBSERVATIONS - October 27, 2015

EW9544_ROD/PIPE-DEPTH: 5.5 meters

EW9544

EW9544	HISTORY	- Date	Condition	Report By
EW9544	HISTORY	- 1990	MONUMENTED	CADT
EW9544	HISTORY	- 19910425	GOOD	NGS
EW9544	HISTORY	- 19920406	GOOD	CADT
EW9544	HISTORY	- 19921007	GOOD	CADT
EW9544	HISTORY	- 19930518	GOOD	CADT
EW9544	HISTORY	- 19940227	GOOD	NGS
EW9544	HISTORY	- 19941026	GOOD	CADT
EW9544	HISTORY	- 19980325	GOOD	NGS
EW9544	HISTORY	- 19991020	GOOD	CADT
EW9544	HISTORY	- 20010412	GOOD	CADT
EW9544	HISTORY	- 20010806	GOOD	NGS
EW9544	HISTORY	- 20020510	GOOD	CADT
EW9544	HISTORY	- 20030605	GOOD	CADT
EW9544	HISTORY	- 20040501	GOOD	CADT
EW9544	HISTORY	- 20050501	GOOD	CADT
EW9544	HISTORY	- 20060916	GOOD	WOOLPT
EW9544	HISTORY	- 20080101	GOOD	CADT
EW9544	HISTORY	- 20090511	GOOD	CADH
EW9544	HISTORY	- 20151027	GOOD	CADT

EW9544

EW9544

STATION DESCRIPTION

EW9544

EW9544'DESCRIBED BY NATIONAL GEODETIC SURVEY 1991

EW9544'TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 101 AND STATE

EW9544'HIGHWAY 225 (CABRILLO BOULEVARD) IN EAST SANTA BARBARA, GO EASTERLY

EW9544'ON HIGHWAY 101 FOR 2.9 MI (4.7 KM) TO THE STATION ON THE RIGHT, AT

EW9544'THE SOUTH FENCE OF AN EMERGENCY PARKING ONLY AREA.

EW9544'THE STATION IS A 2.5 INCH ALUMINUM DISK INSIDE A 6 INCH ALUMINUM

EW9544'ACCESS COVER, IN A WIDE DAYLIGHT SECTION SIGNED FOR EMERGENCY

EW9544'PARKING ONLY. LOCATED 93 FT (28.3 M) NORTHWESTERLY FROM EMERGENCY

EW9544'PARKING ONLY SIGN, 77 FT (23.5 M) WESTERLY FROM CENTERLINE OF

EW9544'SOUTHBOUND LANES OF HIGHWAY 101, 19.35 FT (5.90 M) SOUTHWEST OF THE

EW9544'NORTHEAST END OF FENCE, 2.95 FT (0.90 M) NORTH-NORTHWEST OF FENCE AT

EW9544'POST AND 1.65 FT (0.50 M) NORTHWEST OF A FIBERGLASS WITNESS POST.

EW9544'THE STATION IS IN A WIDE TURNOUT PROVIDING EXCELLENT PARKING.

EW9544

EW9544

STATION RECOVERY (1992)

EW9544

STA 01 - HPGN CA 05 01.txt

EW9544'RECOVERY NOTE BY CALTRANS 1992

EW9544'RECOVERED IN GOOD CONDITION.

EW9544

EW9544

STATION RECOVERY (1992)

EW9544

EW9544'RECOVERY NOTE BY CALTRANS 1992

EW9544'RECOVERED IN GOOD CONDITION.

EW9544

EW9544

STATION RECOVERY (1993)

EW9544

EW9544'RECOVERY NOTE BY CALTRANS 1993

EW9544'THE STATION WAS RECOVERED. A COMPLETE NEW DESCRIPTION FOLLOWS.

EW9544'\$

EW9544'THE STATION IS LOCATED ON THE SOUTH SIDE OF U.S. HIGHWAY 101 IN

EW9544'SUMMERLAND, ABOUT 6 MI (9.7 KM) EAST OF THE SANTA BARBARA HARBOR,

EW9544'ABOUT 6 MI (9.7 KM) WEST OF THE CITY OF CARPINTERIA, WEST OF THE

EW9544'SOUTH BOUND U.S. HIGHWAY 101 OFF RAMP FOR SUMMERLAND.

EW9544'\$

EW9544'TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 101 AND STATE

EW9544'HIGHWAY 225 (CABRILLO BLVD.) IN THE EASTERN SECTION OF THE CITY OF

EW9544'SANTA BARBARA, GO SOUTH (EAST) ON HIGHWAY 101 FOR 2.9 MI (4.7 KM) TO

EW9544'THE STATION ON THE RIGHT AT POST MILE 8.54. A WIDE TURNOUT AREA

EW9544'ADJACENT TO THE STATION PROVIDES ADEQUATE PARKING.

EW9544'\$

EW9544'THE STATION IS A SURVEY DISK ENCASED IN PVC PIPE WITH ACCESS COVER SET

EW9544'IN CONCRETE FLUSH WITH THE GROUND. IT IS ON THE SOUTH SIDE OF A WIDE

EW9544'TURNOUT AREA SIGNED FOR EMERGENCY PARKING ONLY, 77 FEET (23.5 M)

EW9544'SOUTH OF THE CENTERLINE OF THE SOUTH BOUND LANES OF HIGHWAY 101, 40.8

EW9544'FEET (12.4 M) SOUTH OF AN EMERGENCY PARKING ONLY SIGN, 18.3 FT

EW9544'(5.6 M) WEST OF THE EAST END OF A 4 FT (1.2 M) CHAIN LINK FENCE, 3.0

EW9544'FT (0.9 M) NORTH OF AN ANGLE POINT IN THE FENCE, 1.7 FT (0.5 M)

EW9544'NORTHWEST OF A CARSONITE WITNESS POST AND ABOUT 2 FT (0.6 M) HIGHER

EW9544'THAN THE HIGHWAY.

EW9544

EW9544

STATION RECOVERY (1994)

EW9544

EW9544'RECOVERY NOTE BY NATIONAL GEODETIC SURVEY 1994 (AJL)

EW9544'THE STATION IS LOCATED ABOUT 2 KM (1.2 MI) EAST OF SANTA BARBARA, 45

EW9544'KM (28.0 MI) NORTHWEST OF VENTURA, AND ALONG US HIGHWAY 101.

EW9544'OWNERSHIP--CALIFORNIA DEPARTMENT OF TRANSPORTATION. TO REACH FROM THE

EW9544'JUNCTION OF US HIGHWAY 101 AND STATE HIGHWAY 225 (CABRILLO BOULEVARD),

EW9544'IN EAST SANTA BARBARA, GO EAST ON HIGHWAY 101 FOR 4.7 KM (2.9 MI) TO

EW9544'THE STATION ON THE RIGHT, AT THE SOUTH FENCE OF AN EMERGENCY PARKING

EW9544'ONLY AREA. STATION MARK IS CADT SURVEY DISK ATOP AN ALUMINUM ALLOY ROD

EW9544'ENCASED IN A PIPE WITH LOGO CAP SURROUNDED BY CONCRETE SET FLUSH WITH

EW9544'THE GROUND. IT IS 28.3 M (92.8 FT) NORTHWEST OF EMERGENCY PARKING

EW9544'ONLY SIGN , 23.5 M (77.1 FT) WEST OF THE CENTER OF THE SOUTHBOUND

EW9544'HIGHWAY LANES, 5.9 M (19.4 FT) SOUTHWEST OF NORTHEAST END OF FENCE,

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EW9544'0.9 M (3.0 FT) NORTH-NORTHWEST OF FENCE AT POST, AND 0.5 M (1.6 FT)
EW9544'NORTHWEST OF A FIBERGLASS WITNESS POST.

EW9544

EW9544 STATION RECOVERY (1994)

EW9544

EW9544'RECOVERY NOTE BY CALTRANS 1994 (JCF)

EW9544'RECOVERED AS DESCRIBED BY NGS IN 1991.

EW9544

EW9544 STATION RECOVERY (1998)

EW9544

EW9544'RECOVERY NOTE BY NATIONAL GEODETIC SURVEY 1998 (CSM)

EW9544'RECOVERED AS DESCRIBED.

EW9544

EW9544 STATION RECOVERY (1999)

EW9544

EW9544'RECOVERY NOTE BY CALTRANS 1999 (KDM)

EW9544'THE STATION MARK WAS RECOVERED IN GOOD CONDITION, AND WAS THEN FLAGGED

EW9544'

EW9544'UP AND PAINTED. AS PART OF THE CAL-TRANS ANNUAL HPGN MAINTENANCE

EW9544'PROGRAM.

EW9544

EW9544 STATION RECOVERY (2001)

EW9544

EW9544'RECOVERY NOTE BY CALTRANS 2001 (TJR)

EW9544'RECOVERED IN GOOD CONDITION.

EW9544

EW9544 STATION RECOVERY (2001)

EW9544

EW9544'RECOVERY NOTE BY NATIONAL GEODETIC SURVEY 2001 (DB)

EW9544'THIS REPORT WAS SUBMITTED BY THE US POWER SQUADRONS.

EW9544

EW9544 STATION RECOVERY (2002)

EW9544

EW9544'RECOVERY NOTE BY CALTRANS 2002 (CDM)

EW9544'RECOVERED IN GOOD CONDITION.

EW9544

EW9544 STATION RECOVERY (2003)

EW9544

EW9544'RECOVERY NOTE BY CALTRANS 2003 (TJR)

EW9544'RECOVERED IN GOOD CONDITION.

EW9544

EW9544 STATION RECOVERY (2004)

EW9544

EW9544'RECOVERY NOTE BY CALTRANS 2004

EW9544'RECOVERED IN GOOD CONDITION.

EW9544

EW9544 STATION RECOVERY (2005)

EW9544

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EW9544'RECOVERY NOTE BY CALTRANS 2005 (TJR)

EW9544'RECOVERED IN GOOD CONDITION.

EW9544

EW9544 STATION RECOVERY (2006)

EW9544

EW9544'RECOVERY NOTE BY WOOLPERT CONSULTANTS 2006 (BAJ)

EW9544'RECOVERY NOTE BY WOOLPERT, INC. 2006 (DJK) RECOVERED AS DESCRIBED.

EW9544

EW9544 STATION RECOVERY (2008)

EW9544

EW9544'RECOVERY NOTE BY CALTRANS 2008 (BM)

EW9544'RECOVERED IN GOOD CONDITION.

EW9544

EW9544 STATION RECOVERY (2009)

EW9544

EW9544'RECOVERY NOTE BY CA DIV OF HIGHWAYS 2009 (JJW)

EW9544'RECOVERED IN GOOD CONDITION.

EW9544

EW9544 STATION RECOVERY (2015)

EW9544

EW9544'RECOVERY NOTE BY CALTRANS 2015 (GND)

EW9544'RECOVERED IN GOOD CONDITION.

*** retrieval complete.

Elapsed Time = 00:00:05

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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 4, 2018

EW7931 *****

EW7931 DESIGNATION - RINCON

EW7931 PID - EW7931

EW7931 STATE/COUNTY- CA/SANTA BARBARA

EW7931 COUNTRY - US

EW7931 USGS QUAD - WHITE LEDGE PEAK (1988)

EW7931

EW7931 *CURRENT SURVEY CONTROL

EW7931

EW7931* NAD 83(2011) POSITION- 34 22 30.97395(N) 119 28 36.70061(W) ADJUSTED

EW7931* NAD 83(2011) ELLIP HT- -23.247 (meters) (06/27/12) ADJUSTED

EW7931* NAD 83(2011) EPOCH - 2010.00

EW7931* NAVD 88 ORTHO HEIGHT - 12.2 (meters) 40. (feet) GPS OBS

EW7931

EW7931 NAVD 88 orthometric height was determined with an earlier geoid model

EW7931 GEOID HEIGHT - -35.603 (meters) GEOID12B

EW7931 NAD 83(2011) X - -2,593,145.133 (meters) COMP

EW7931 NAD 83(2011) Y - -4,587,690.418 (meters) COMP

EW7931 NAD 83(2011) Z - 3,580,867.455 (meters) COMP

EW7931 LAPLACE CORR - 4.30 (seconds) DEFLEC12B

EW7931

EW7931 Network accuracy estimates per FGDC Geospatial Positioning Accuracy

EW7931 Standards:

EW7931 FGDC (95% conf, cm) Standard deviation (cm) CorrNE

EW7931 Horiz Ellip SD_N SD_E SD_h (unitless)

EW7931 -----

EW7931 NETWORK 1.25 3.41 0.55 0.46 1.74 -0.08367422

EW7931 -----

EW7931 Click here for local accuracies and other accuracy information.

EW7931

EW7931

EW7931.The horizontal coordinates were established by GPS observations

EW7931.and adjusted by the National Geodetic Survey in June 2012.

EW7931

EW7931.NAD 83(2011) refers to NAD 83 coordinates where the reference frame has

EW7931.been affixed to the stable North American tectonic plate. See

EW7931.NA2011 for more information.

EW7931

EW7931.The horizontal coordinates are valid at the epoch date displayed above

EW7931.which is a decimal equivalence of Year/Month/Day.

EW7931

EW7931.The orthometric height was determined by GPS observations and a

EW7931.high-resolution geoid model.

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EW7931

EW7931.Significant digits in the geoid height do not necessarily reflect accuracy.
EW7931.GEOID12B height accuracy estimate available here.

EW7931

EW7931.Photographs are available for this station.

EW7931

EW7931.The X, Y, and Z were computed from the position and the ellipsoidal ht.

EW7931

EW7931.The Laplace correction was computed from DEFLEC12B derived deflections.

EW7931

EW7931.The ellipsoidal height was determined by GPS observations

EW7931.and is referenced to NAD 83.

EW7931

EW7931. The following values were computed from the NAD 83(2011) position.

EW7931

EW7931;		North	East	Units	Scale	Factor	Converg.
EW7931;SPC CA 5	-	598,087.024	1,864,175.963	MT	0.99994350	-0 50	30.6
EW7931;SPC CA 5	-	1,962,223.84	6,116,050.64	sFT	0.99994350	-0 50	30.6
EW7931;UTM 11	-	3,806,546.948	272,252.064	MT	1.00023940	-1 23	56.6

EW7931

EW7931! - Elev Factor x Scale Factor = Combined Factor

EW7931!SPC CA 5 - 1.00000365 x 0.99994350 = 0.99994715

EW7931!UTM 11 - 1.00000365 x 1.00023940 = 1.00024305

EW7931

EW7931_U.S. NATIONAL GRID SPATIAL ADDRESS: 11SKU7225206546(NAD 83)

EW7931

EW7931 SUPERSEDED SURVEY CONTROL

EW7931

EW7931	NAD 83(2007)-	34 22 30.97170(N)	119 28 36.69745(W)	AD(2007.00)	0
EW7931	ELLIP H (02/10/07)	-23.231 (m)		GP(2007.00)	
EW7931	NAD 83(1992)-	34 22 30.95526(N)	119 28 36.67778(W)	AD(1991.35)	1
EW7931	ELLIP H (06/24/96)	-23.211 (m)		GP(1991.35)	4 1
EW7931	NAD 83(1992)-	34 22 30.95535(N)	119 28 36.67769(W)	AD(1991.35)	1
EW7931	ELLIP H (08/05/94)	-23.188 (m)		GP(1991.35)	4 2
EW7931	NAVD 88 (08/05/94)	12.4 (m)	GEOID93 model used	GPS OBS	

EW7931

EW7931.Superseded values are not recommended for survey control.

EW7931

EW7931.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.

EW7931.See file dsdata.pdf to determine how the superseded data were derived.

EW7931

EW7931_MARKER: I = METAL ROD

EW7931_SETTING: 49 = STAINLESS STEEL ROD W/O SLEEVE (10 FT.+)

EW7931_STAMPING: RINCON 1992

EW7931_MARK LOGO: CADT

EW7931_PROJECTION: FLUSH

EW7931_MAGNETIC: N = NO MAGNETIC MATERIAL

EW7931_STABILITY: B = PROBABLY HOLD POSITION/ELEVATION WELL

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EW7931_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR

EW7931+SATELLITE: SATELLITE OBSERVATIONS - October 27, 2015

EW7931_ROD/PIPE-DEPTH: 2.1 meters

EW7931

EW7931	HISTORY	- Date	Condition	Report By
EW7931	HISTORY	- 1992	MONUMENTED	CADT
EW7931	HISTORY	- 19930907	GOOD	NGS
EW7931	HISTORY	- 20020817	GOOD	CADT
EW7931	HISTORY	- 20040501	GOOD	CADT
EW7931	HISTORY	- 20040504	GOOD	CADT
EW7931	HISTORY	- 20070622	GOOD	CADT
EW7931	HISTORY	- 20080404	GOOD	CADH
EW7931	HISTORY	- 20100418	GOOD	CADT
EW7931	HISTORY	- 20110715	GOOD	CADT
EW7931	HISTORY	- 20131215	GOOD	CADT
EW7931	HISTORY	- 20150717	GOOD	CADT
EW7931	HISTORY	- 20151027	GOOD	CADT

EW7931

EW7931

STATION DESCRIPTION

EW7931

EW7931'DESCRIBED BY CALTRANS 1992

EW7931'THE STATION IS LOCATED NEAR THE VENTURA/SANTA BARBARA COUNTY LINE IN

EW7931'THE RINCON POINT UNIT OF CARPINTERIA STATE BEACH, ABOUT 14 MI

EW7931'(22.5 KM) EAST OF THE CITY OF SANTA BARBARA AND ABOUT 15 MI

EW7931'(24.1 KM) NORTHWEST OF THE CITY OF VENTURA.

EW7931'TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 101 AND STATE

EW7931'HIGHWAY 150, GO SOUTH ON U.S. HIGHWAY 101 FOR 0.5 MI (0.8 KM) TO THE

EW7931'BATES ROAD OFFRAMP. GO SOUTH ON THE OFFRAMP FOR 0.25 MI (0.40 KM) TO

EW7931'THE INTERSECTION WITH BATES ROAD. BEAR RIGHT, CROSS BATES ROAD AND GO

EW7931'SOUTHEAST ON THE ACCESS ROAD FOR THE RINCON POINT UNIT OF CARPINTERIA

EW7931'STATE BEACH FOR ABOUT 125 FT (38.1 M) TO THE STATION ON THE LEFT.

EW7931'

EW7931'THE STATION IS A STAINLESS STEEL ROD ENCASED IN PVC PIPE WITH ACCESS

EW7931'COVER SET IN CONCRETE FLUSH WITH THE GROUND. THE DATUM POINT IS A

EW7931'PUNCH MARK IN THE TOP OF THE ROD 0.2 FT (6.1 CM) BELOW THE ACCESS

EW7931'COVER. IT IS ABOUT 100 FT (30.5 M) SOUTHEAST OF BATES ROAD, 62.0 FT

EW7931'(18.9 M) SOUTH OF THE WEST END OF A 5 FT (1.5 M) CHAINLINK R/W FENCE,

EW7931'34 FT (10.4 M) NORTHEAST OF THE CENTERLINE OF THE ACCESS ROAD, 17.5

EW7931'FT (5.3 M) NORTHWEST OF AN ANGLE POINT IN A CURB, 2.5 FT (0.8 M)

EW7931'SOUTH OF A CARSONITE WITNESS POST, AND ABOUT 1 FT (0.3 M) HIGHER THAN

EW7931'THE PARKING AREA.

EW7931'

EW7931'THIS STATION WAS OCCUPIED AS PART OF A CALIFORNIA HPGN DENSIFICATION

EW7931'SURVEY.

EW7931

EW7931

STATION RECOVERY (1993)

EW7931

EW7931'RECOVERY NOTE BY NATIONAL GEODETIC SURVEY 1993

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EW7931 'RECOVERED IN GOOD CONDITION.
EW7931
EW7931 STATION RECOVERY (2002)
EW7931
EW7931 'RECOVERY NOTE BY CALTRANS 2002 (GND)
EW7931 'RECOVERED IN GOOD CONDITION.
EW7931
EW7931 STATION RECOVERY (2004)
EW7931
EW7931 'RECOVERY NOTE BY CALTRANS 2004
EW7931 'RECOVERED IN GOOD CONDITION.
EW7931
EW7931 STATION RECOVERY (2004)
EW7931
EW7931 'RECOVERY NOTE BY CALTRANS 2004 (NT)
EW7931 'RECOVERED IN GOOD CONDITION.
EW7931
EW7931 STATION RECOVERY (2007)
EW7931
EW7931 'RECOVERY NOTE BY CALTRANS 2007 (BDM)
EW7931 'RECOVERED IN GOOD CONDITION.
EW7931
EW7931 STATION RECOVERY (2008)
EW7931
EW7931 'RECOVERY NOTE BY CA DIV OF HIGHWAYS 2008 (TR)
EW7931 'RECOVERED IN GOOD CONDITION.
EW7931
EW7931 STATION RECOVERY (2010)
EW7931
EW7931 'RECOVERY NOTE BY CALTRANS 2010 (JAS)
EW7931 'RECOVERED AS DESCRIBED BY CADT IN 1992.
EW7931
EW7931 STATION RECOVERY (2011)
EW7931
EW7931 'RECOVERY NOTE BY CALTRANS 2011 (JAS)
EW7931 'RECOVERED IN GOOD CONDITION.
EW7931
EW7931 STATION RECOVERY (2013)
EW7931
EW7931 'RECOVERY NOTE BY CALTRANS 2013 (DMB)
EW7931 'RECOVERED IN GOOD CONDITION.
EW7931
EW7931 STATION RECOVERY (2015)
EW7931
EW7931 'RECOVERY NOTE BY CALTRANS 2015 (JAS)
EW7931 'RECOVERED IN GOOD CONDITION.
EW7931
EW7931 STATION RECOVERY (2015)

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EW7931

EW7931'RECOVERY NOTE BY CALTRANS 2015 (GND)

EW7931'RECOVERED IN GOOD CONDITION.

*** retrieval complete.

Elapsed Time = 00:00:04

