

DP3A Site Information Form

DUPAGE COUNTY, ILLINOIS

0. Form

Orig. Prepared by : JEFF LUTEYN
Date Prepared : 2005-01-04
Update : 2009-06-11
Report Type : NEW

1. Site Identification of the GPS Monument

Site Name : NAPERVILLE PD
Four Character ID : DP3A
Monument Inscription :
IERS DOMES Number :
CDP Number :
Monument Description : ANTENNA MOUNTED ON ROOF OF
NAPERVILLE POLICE STATION
Date Installed : 2004-10-05
Geologic Characteristic : GLACIAL TILL/BEDROCK
Bedrock Type : SEDIMENTARY
Bedrock Condition : FRESH
Fracture Spacing : 1-10 cm
Fault zones nearby : YES (SANDWICH FAULT)
Activity : INACTIVE

2. Site Location Information

City or Town : NAPERVILLE
State or Province : ILLINOIS
Country : UNITED STATES OF AMERICA
Tectonic Plate : NORTH AMERICA
Approximate Position
X coordinate (m) : 151579.237 M
Y coordinate (m) : -4762167.092 M
Z coordinate (m) : 4226286.435 M
Latitude : 41 45 53.46627 N
Longitude : 88 10 36.83055 W
Elevation (m,ellips.) : 192.136 M
Additional Information : ARP ITRF00 POSITION (EPOCH 2002.0)
COMPUTED BY NGS IN DECEMBER USING
OPUS, THE ON-LINE PROCESSING USER
SERVICE WITH 13.5 DAYS OF DATA FROM
OCTOBER 2004.

3. GPS Receiver Information

3.1 Receiver Type : LEICA SR530
Serial Number : 034785
Firmware Version : 4.2
Elevation Cutoff Setting : 10 deg
Date Installed : 2004-10-12
Date Removed : 2005-01-12
Additional Information : RENTAL UNIT REPLACED JANUARY 31, 2005.

3.2 Receiver Type : LEICA SR530
Serial Number : 132129
Firmware Version : 5.0
Elevation Cutoff Setting : 10 deg
Date Installed : 2005-01-12
Date Removed : 2007-11-01
Additional Information : PERMANENT, OWNED BY DU PAGE COUNTY

3.3 Receiver Type : LEICA GRX1200GGPRO
Serial Number : 355298
Firmware Version : 7.5
Elevation Cutoff Setting : 10 deg
Date Installed : 2007-11-01
Date Removed :
Additional Information : PERMANENT, OWNED BY DU PAGE COUNTY

4. GPS Antenna Information

4.1 Antenna Type : LEIAT504
Serial Number : 1391
Antenna Reference Point : BPA
Alignment from True N :
Antenna Radome Type : LEIS
Radome Serial Number : NA
Antenna Cable Type : EXTERIOR COAXIAL CABLE
Antenna Cable Length : ~35 M
Date Installed : 2003-10-05
Date Removed :
Additional Information : LEICA AT504 PILLAR WITH RADOME

5. Surveyed Local Ties

5.x Tied Marker Name :
Tied Marker Usage :
Tied Marker CDP Number :
Tied Marker DOMES Number :

Differential Components from GNSS Marker to the tied monument (ITRS)

dx (m) : (m)
dy (m) : (m)
dz (m) : (m)
Accuracy (mm) : (mm)
Survey method :
Date Measured :
Additional Information :

6. Frequency Standard

6.1 Standard Type :
Input Frequency :
Effective Dates :
Notes :

7. Collocation Information

7.1 Instrumentation Type : GPS
Status : PERMANENT
Effective Dates : 2004-10-12
Notes :

8. Meteorological Instrumentation

8.1.1 Humidity Sensor Model : NA

8.2.1 Pressure Sensor Model : NA

8.3.1 Temp. Sensor Model : NA

8.4.1 Water Vapor Radiometer : NA

8.5.1 Other Instrumentation : NA

9. Local Ongoing Conditions Possibly Affecting Computed Position

9.1.1 Radio Interferences : NA
Observed Degradations :
Effective Dates :
Additional Information :

9.2.1 Multipath Sources : NONE NOTED

9.3.1 Signal Obstructions :
Effective Dates :
Additional Information :

10. Local Episodic Effects Possibly Affecting Data Quality

10.1 Date : NA
Event :

11. On-Site, Point of Contact Agency Information

Agency : DUPAGE COUNTY / IT-GIS DIVISION
Mailing Address : 421 N COUNTY FARM ROAD WHEATON, IL
60187-3989

Primary Contact

Contact Name : MIKE SEMENEK
Telephone (primary) : 630 407 5055
Fax :
E-mail : BENCHMARKS@DUPAGECO.ORG

Secondary Contact

Contact Name : BILL FAEDTKE
Telephone (primary) : 630 407 5033
E-mail : GIS@DUPAGECO.ORG

12. More Information

Primary Data Center : WWW.DUPAGECO.ORG/GIS/GPS
URL for More Information :
Hardcopy on File
Site Map : (Y)
Site Diagram : (Y)
Horizon Mask : 10
Monument Description : (Y)
Site Pictures : (Y)
Additional Information :



<http://www.ngs.noaa.gov/ANTCAL/Models/LEIAT504+rd.shtml>