

GeoBC
BRITISH COLUMBIA ACTIVE CONTROL SYSTEM

GPS ACTIVE CONTROL POINT as of 2013/05/03

STATION: BCNS / PGC4
GEODETIC MARK: 937227
FULL NAME: BCACS - North Saanich ACP
CLASS: BCACS Primary
LOCATION: Victoria, B.C., Canada

- 2006/04/11

MARKER COORDINATES: Latitude n48 38 54.57271
Longitude w123 27 03.51966
Ellipsoid Height 3.959m
Orthometric Height 22.499m

GEODETIC ATTRIBUTES: Datum/Ellipsoid = NAD83(CSRs) 3.0.0.BC.1.CRD
Geoid Model = HTV2.0
N = -18.54m
xi = 3.66"
eta = 13.49"

- 2001/01/31

MARKER COORDINATES: Latitude n48 38 54.57271
Longitude w123 27 03.51966
Ellipsoid Height 3.999m
Orthometric Height 22.499m

GEODETIC ATTRIBUTES: Datum/Ellipsoid = NAD83/WGS 84
Geoid Model = HT97
N = -18.50
xi = 3.46"
eta = 14.62"

- Preliminary

MARKER COORDINATES: Latitude n48 38 54.573382
Longitude w123 27 03.520646
Ellipsoid Height 4.1685m
Orthometric Height m

GEODETIC ATTRIBUTES: Datum/Ellipsoid = NAD83/WGS 84
Geoid Model = HT97
N = -17.82
xi = 0.55"
eta = 12.79"

REFERENCE NETWORKS:

Inner: nil

Outer:

COLLOCATION TIES:

- nil

ANTENNA HEIGHT: > vertical distance measured to antenna reference point
(antenna on Stainless steel spacer)

- 2012/08/17	17:38UT	0.100m
- 2009/03/06	20:15UT	0.097m
- 2004/12/02	00:00UT	0.100m
- 1999/10/27	00:00UT	0.100m

GPS RECEIVER:

- 2012/xx/xx	17:38UT	Trimble NetR9 s/n# 5213K83761
- 2009/09/10	21:15UT	Trimble NetR5 s/n# 4838K58471
- 2009/04/16	22:00UT	Trimble NetR8 s/n# 4852K33863
- 2009/03/06	20:15UT	Trimble NetR5 s/n# 4838K58471
- 2004/12/02	21:00UT	Trimble NetRS s/n# 4416233465
- 1999/10/27	00:00UT	Trimble 4700 s/n# 220168608

FIRMWARE:

- 2013/05/04	00:15UT	Firmware 4.80
- 2013/03/08	19:20UT	Firmware 4.70
- 2012/xx/xx	17:38UT	Firmware 4.60
- 2011/09/27	14:25UT	Firmware 4.43
- 2010/12/21	16:10UT	Firmware 4.19
- 2010/09/13	14:16UT	Firmware 4.17
- 2010/07/21	14:15UT	Firmware 4.03/Boot3.61
- 2009/09/10	21:15UT	Firmware 4.01/Boot3.60
- 2009/03/03	20:15UT	Firmware 3.64/Boot3.55
- 2007/10/03	15:30UT	Firmware 1.20/Boot1.13
- 2004/12/02	21:00UT	Firmware 1.03/Boot1.00
- 2004/12/02	21:00UT	Firmware 1.03/Boot1.00
- 2000/11/23	19:40UT	Firmware 1.30/Boot1.00
- 2000/02/22	18:00UT	Firmware 1.20/Boot1.00
- 1999/10/27	00:00UT	Firmware 1.13/Boot1.00

ANTENNA (diagram below):

- 2012/08/17	17:38UT	Trimble GNSS Choke Ring SCIS (TRM59800.00) Sn 5225354532
--------------	---------	---

- 2009/03/06 20:15UT Trimble Zephyr Geod 2 with dome
(TRM55971.00 TZGD) sn 31050443
- 2004/12/02 21:00UT Trimble Choke Ring
(TRM29659.00) sn 220320295
- 1999/10/27 00:00UT Trimble Microcentred with ground plane
(L1/L2) sn 220168780

ANTENNA CABLE:

- 1999/10/27 00:00UT RG-214 30m

CLOCK:

- 2012/08/17 17:38UT GPS Receiver Internal Clock
- 1999/10/27 00:00UT GPS Receiver Internal Clock

COMPUTER HARDWARE:

- 2012/01/16 00:00UT N/A
- 2004/12/02 21:00UT Dell PE2650 1024Mb RAM
- 1999/10/27 00:00UT Compaq PIII 350 sn# 64Mbyte RAM
13Gbyte hard disk (FAT Format)
- 1995/03/21 17:00UT 3Com EtherLink III Card

COMPUTER SOFTWARE:

- 2012/01/16 00:00UT Trimble VRS3Net
- 2004/12/02 21:00UT Windows 2000 server SP4
- 2009/01/10 21:00UT Trimble GPSBase ver. 2.62
- 2004/12/02 21:00UT Trimble GPSBase ver. 2.3

- 2001/02/27 20:45UT Trimble Reference Station v1.02
- 1999/10/27 15:00UT Trimble URS for Windows 1.0
- 1999/10/27 00:00UT NT Workstation ver. 4.0 service pack 5

UNINTERRUPTABLE POWER SUPPLY:

- 1999/10/27 00:00Ut Best Fortress LI1.42KVAB s/n#

STATUS:

- 1999/10/27 00:00UT Operational

AGENCY: GeoBC
Province of British Columbia

CONTACT: Vern Vogt P. Eng.
Province of British Columbia
GeoBC
3400 Davidson Ave.
Victoria, BC, Canada V8Z 3P8
Tel: (250) 952-6571

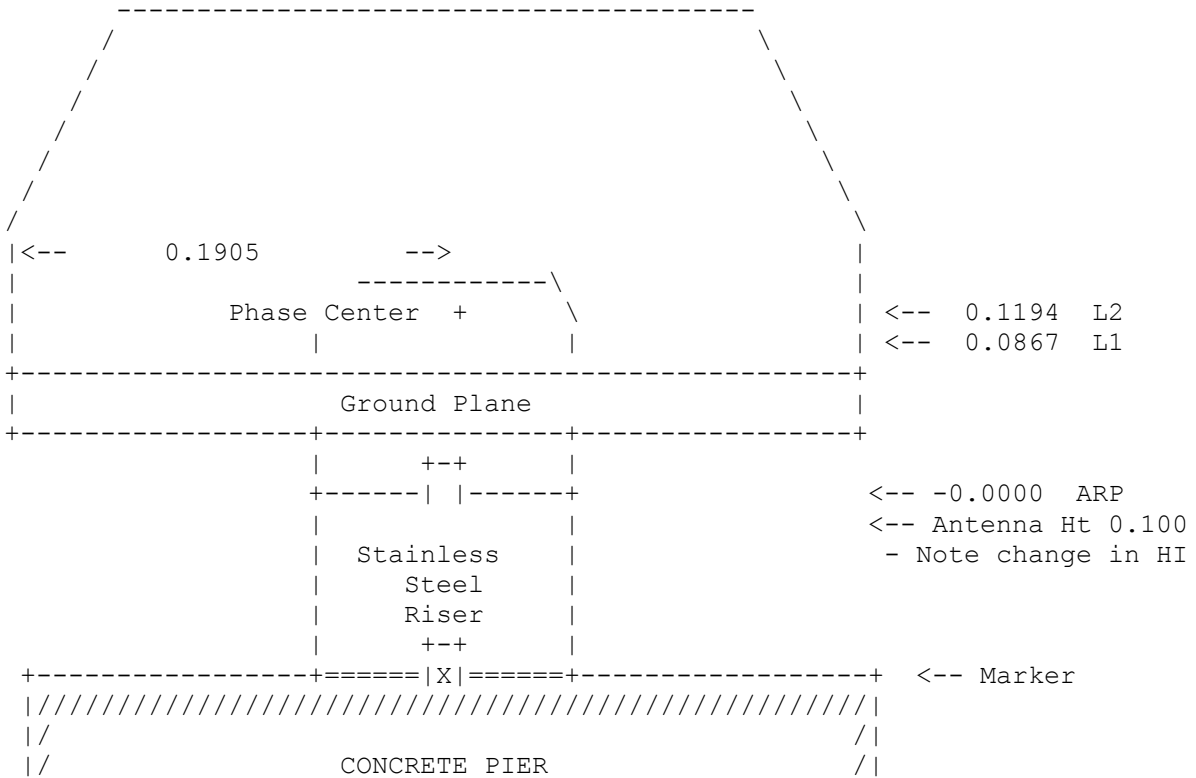
Fax: (250) 952-4188

email: vern.vogt@gov.bc.ca

ANTENNA DIAGRAM:

2012/08/02 Trimble Dorne Margolin with choke ring & SCIGN dome

(NGS TRM59800.00 SCIS)




```

          |      +-+      |
+-----+=====|X|=====+ <-- Marker
|////////////////////////////////////|
|/                                         /|
|/          CONCRETE PIER                /|

```

Trimble MicroCentre L1/L2 w/ Ground Plane (NGS TRM 33429.20+GP)

```

<--      0.2413          -->
          -----
          Phase Center +      \
          |              |      |
+-----+-----+-----+ <-- 0.0625
|              |              | Nominal Phase Centre
|              |              | <-- -0.0631 Top
+-----+-----+-----+ <-- -0.0596 Btm
          |      +-+      |
          +-----+-----+ <-- -0.0000 ARP
          |      |      |      | <-- Antenna Ht - 0.100
          |      |      |      |
          |      |      |      |
          |      |      |      |
          |      +-+      |
+-----+=====|X|=====+ <-- Marker
|////////////////////////////////////|
|/                                         /|
|/          CONCRETE PIER                /|

```

Marker - X

ACRONYMS:

ARP ... Antenna Reference Point
 BCACS ... British Columbia Active Control System
 NAD83(CSRS) ... North American Datum 1983 Canadian Spatial Reference System
 WGS84 ... World Geodetic System 1984