12/9/13 4Q2013 GWM 15° Clear

0840 ~~0900~~ Begin water level measurements

DC-05D = 72.04' btoc

DC-05 = 68.28'

DC-04 = 32.01'

YVD-15 = 90.49'

DC-07 = 44.15'

YVD-17 = 34.81'

YVD-14 = 76.97'

DC-03 = 72.55

DC-03D = 73.16

YVD-13 = 127.25'

YVD-18 = 127.45'

YVD-12 = 138.34

YVD-09 = 109.93'

YVD-08 = 171.08'

YVD-04 = 223.50'

YVD-10 = 89.20'

DC-14 = 131.10'

YVD-07 = 157.26'

DC-09 = 143.10'

YVD-11 = 105.77'

YVD-16 = 112.84'

YVD-05 = 116.~~35~~ 45

12/9/13 4Q 2013 GWM 12° Clear

YVD-06 = 108.21

YVD-03 = 190.42

YVD-02 = 32.85

DC-01 = 150.66

1150 Calibrate Horiba U-52
pH = 4.00, Cond 4.49, Turb 0.0

1200 Set up @ YVD-02

1240 - Pull pump + clean. Replace tubing
waiting for flow.

1300 - begin purge flow 300 mL/min

1340 Well dry. slow recharge

1410 - Still no recharge. Will return

1440 - Set up at YVD-06

1505 - Begin purging YVD-06

1528 - Collect sample w/ DUPLICATES
also MS/MSD sample.

1615 off site - getting dark.

[illegible]

12/10/13 402013 GWM 20°C/Clear

700 On site. Daily Tailgate meeting held.
720 Calibrate Horiba U-52 pH 4.0 Cond 4.5 Turb 1.0
730 Set up at YVD-17
745 Begin purge
810 Collect sample YVD-17-131210
840 Set up at DC-07
855 Begin purging DC-07
911 Collect sample YVD 15 DC-07-131210
940 Set up at YVD-07.
0955 Begin purging YVD-07.
1005 pH seems High. Recalibrate Horiba.
1059 Calibration complete. Suspect cold is affecting sensor. Had to warm probe + solution before calibration could occur pH 4.01 Cond 4.48 Turb 0.0
1101 Begin purging YVD-07
1121 YVD-07 Sampled (YVD-07-131210)
1145 Set up at YVD-04
1200 Begin purging

12/10/13 402013 GWM 20°C/Clear

1230 No water, pull pump. need o-ring! To store for o-ring. K Freeman on site to perform TIP.
1330 Send bottles to Lab w/ K.F.
K.F. off Site
Replace o ring
1350 Begin purge
1418 Have water!
1435 Collect sample YVD-04-131210 SLOW FLOW
1600 Set up at YVD-03
1610 Begin purging YVD-03
1625 Collect sample YVD-03-131210
1720 off site.

12/11/13 4Q2013 GWM 17° Clear

0700 LSobesta + J DeJong on Site
Daily Tailgate H+S meeting held
Calibrate Horiba U-52
pH 4.00 Cond 4.5 Turb 0.0
0730 Set up on YVD-05 + begin purge
0801 Collect sample YVD-05-131211
0825 Set up at DC-09
0887 Begin purging DC-09
0857 Collect DC-09-131211
0930 Set up at YVD-08
1002 Begin purging YVD-08
1025 Collect sample YVD-08-131211
1100 Set up @ DC-01
1126 Begin purging DC-01
1155 Collect sample DC-01-131211
1225 Set up at DC-14
1245 Begin purging DC-14
1316 Collect Sample DC-14-131211
1340 Set up @ YVD-18
1355 Begin purging YVD-18
1400 J. DeJong to FedEX to ship samples

12/11/13 4Q2013 GWM 18° Clear

1409 Collect YVD-18-131211 + Dup YVD-D2-131211
1500 John on site. Set up at ~~13~~ DC-05D
1515 Begin purging DC-05D
1531 Collect DC-05D-131211
1540 Check YVD-02 for recharge 7/10 foot water in well, unable to fill bailer. Check recharge 12/12/13.
1550 Set up at YVD-12
1602 Begin purging YVD-12
1618 Collect Sample YVD-12
1635 Set up at YVD-13
1642 Begin purging YVD-13
1704 Collect YVD-13-131211
1745 off Site

12/12/13 4Q2013 GWM 17° Overcast

0700 L Sibesta + J Dejong on site.
Daily H+S meeting.
0730 Calibrate Horiba U-52
pH 4.00 Cond 4.50 Turb 0.2
0740 Set up at YVD-16
0800 Begin purging YVD-16
0829 Collect sample YVD-16-131212
0900 Set up at DC-04
0920 Begin purging DC-04
0927 pH reading high. Recalibrate Horiba
Refrence electrode needed refill of
electrode solution. Recalibrate.
pH 3.99 Cond 4.49 Turb 0.1
1018 resume purge of ~~YVD~~ DC-04
1031 Collect sample DC-04-131212
1045 Set up at DC-05
1054 Begin purging DC-05
1115 Collect sample DC-05-131212
1130 Set up at YVD-11
1140 Begin purging YVD-11
1225 collect sample YVD-11-131212
1240 Set up at DC-03D
1250 Begin purging DC-03D

12/12/13 4Q2013 GWM 19° Overcast

1302 Collect sample DC-03D-131212
1320 Set up at YVD-15
1348 Collect sample YVD-15-131212
1415 Set up at YVD-09
J. Dejong to FedEx to Ship
samples. Also, to check YVD-02
recharge
1435 Begin purging YVD-09
1453 Collect sample YVD-09-13122
1500 J Dejong on site. YVD-02
has < 1-foot water column.
will not have volume to
sample this quarter. Confirmed
via phone w/ K. Freeman.
1515 Set up at YVD-10
1526 Begin purging YVD-10
1545 Collect sample YVD-10-131212
1600 Set up at YVD-14-131212
1603 Begin purging YVD-14
1613 tubing frozen + disconnected from
Horiba. reconnect.
1619 Begin readings.
1635 collect sample YVD-14-131212
1650 Set up at DC-03

12/12/13 402013 GWM 20° Overcast

1705 Begin purging DC-03

1724 Collect sample DC-03-131212 and duplicate YVD-D3-131212, also selected for MS/MSD

1745 Collect equipment blank sample YVD-EB-131212.

1800 Pack equipment, clean, organize.

1830 Off site - Deliver samples to Spokane T.A. 12/13/13 AM.