

APPENDIX A
Field Notes

(88) FWDA Facility-Wide April 2015
Groundwater Sampling Event 4/10/15

Weather: calm, low 28°F, high 68°F

Purpose: complete groundwater sampling,
pull Bennett pumps for maintenance,
clean/organize sampling equipment
and fire station

Staff: Ana Cochran, Nadine Warneke, Dave Larsen,

John Nance, Todd Arrowood, Luke Hill

USACE: Andrew Trainor

0705 Arrive at fire station. Conduct daily
safety meeting and plan the day's
activities. Calibrate sampling equipment
and load trucks.

0740 TA and LH depart to sample TMW43
AC and NW depart to sample TMW47

0820 JN and DL buy ice and start pulling
Bennett pumps for maintenance.
Pumps pulled from the following wells:
MW24, MW23, TMW19, TMW16, TMW37, +
TMW36

1030-11 TA, LH, AC, and NW Return to fire
station to pack samples, unload and
clean equipment, clean fire station

12:15 JN and DL return to fire station

1330 All staff depart site back to A130
wells sampled:
TMW43, TMW47

Ana Cochran

4/10/15

FWDA FACILITY-WIDE OCTOBER 2015 (89)
10/26/15 GROUNDWATER SAMPLING EVENT

WEATHER: CALM, LOW 37°F; HIGH 64°F 40% CHANCE OF
RAIN.

PERSONNEL ON SITE: DAVE LARSEN, LUKE HILL, JONNAR
GLETTEN ENGEL, CORNIE WATTAICHINDA-KRUMH
RACHEL HOBBS

USACE OVERSIGHT: JUSTIN KEALE

0705 - MEET AT CORPS TRAILER, SIGN IN AND GET SITE
SAFETY AND UXO AWARENESS TRAINING

0740 - AT BLDG 34, CONDUCT SAFETY TALK. LUKE HILL
LEADS

0830 - TWO TEAMS SET FOR GROUNDWATER LEVEL COLLECTION:

TEAM 1 - D. LARSEN & C. WATKINSON

TEAM 2 - G. ENGEL & R. HOBBS

J. NANCE & L. HILL STAY AT BLDG 34 FOR OFFICE
SET-UP AND DELIVERY RECEIVING.

1045 - PORTABLE TOILETS DROPPED AT BLDG 34

L. J. NANCE & LUKE MOVE ICE MACHINE AND
REFRIGERATOR TO BUILDING 5. BLDG 34 DOES
NOT HAVE POWER.

1415 - C.W. WATKINSON & D. LARSEN RETURN TO BLDG 34

1435 - R. HOBBS & G. ENGEL RETURN TO BLDG 34 -

COLLECTED WATER LEVELS FOR ALL WELLS EXCEPT:
PZ01, PZ02, PZ03, PZ04, PZ05, PZ06, PZ07,
PZ08, PZ09, PZ10, FW31

★ PROBLEMS ENCOUNTERED: GROUNDWATER WELL KEY SETS
WERE DISSASSEMBLED FOR OTHER WORK PRIORITIES,
TOOK TIME TO REATHER NEEDED KEYS - NOTE: ONLY 6
TWO KEYS TO SI GATE, AND NO PIEZOMETRIC KEYS

1700 ALL PERSONNEL OFF SITE. END DAY

John Nance

10/26/15

(98)

FACILITY-WIDE OCTOBER 2015
GROUNDWATER SAMPLING EVENT 10/27/2015

WEATHER: CLEAR & COOL, ~30F

PERSONNEL ON SITE: DAVE LARSEN, CONNIE WATINAGHINDA-VERNON, RACHEL HOBBS
BLU MORAVID, LUKE HILL, GRETCHEN ENGEL, JOHN NANCE
USACE OVERSIGHT: JUSTIN REALE

0700 TEAM ON SITE, MEET AT FIRE STATION

0730 TAILGATE SAFETY MEETING BY J. NANCE & LUKE HILL

SETUP FOR DAYS ACTIVITIES -

- GROUNDWATER LEVEL MEASUREMENTS CONTINUED
- COLLECT INITIAL EQUIPMENT BLANK SAMPLE
- BEGIN BURGE OF MONITORING WELLS

TEAMS ARE: C.W. VERNON AND D. LARSEN

J. NANCE AND R. HOBBS

L. HILL AND G. ENGEL WITH B. MORAVID

AS FLOATER

0900 ALL TEAMS DEPART FIRE STATION FOR DAY'S ACTIVITIES

0930 CWV & DL AT FW35 - DETERMINE WELL DRY, ONLY
PRODUCED 100ML WATER1350 RECEIVE DIRECTION FROM USACE TO CUT LOCKS
OFF OF PIEZOMETERS TO GET WATER LEVELS. CONFIRMED
ENOUGH SPARE LOCKS EXIST AND WILL REPLACE WITH
USACE MONITORING WELL LOCKS

1340 L. HILL & ENGEL AT BLDG 5 TO PREP SAMPLE SHIPMENT

1600 J. NANCE & R. HOBBS AT BLDG 5 - CWV & DL TO COLLECT
PIEZOMETER WATER LEVELS

- PURGED - TMW403, TMW29, MW225, MW02, MW01
TMW30, TMW315, TMW315, TMW46, TMW16,
TMW19, TMW18, TMW37, TMW36
- COLLECTED - FW102015 EQU001 EQUIP BLANK (INITIAL)
- GW LEVELS - PZ01, PZ02, PZ03, PZ04, PZ07, PZ08, PZ09,
PZ10

(91)

FACILITY-WIDE OCTOBER
GROUNDWATER SAMPLING EVENT 10/27/2015

* PROBLEMS ENCOUNTERED: RECEIVED AUTHORIZATION TO CUT
AND REPLACE PZ LOCKS AT 1350, COLLECTED ALL
PZ GW LEVELS EXCEPT PZ05 & PZ06. IN CUTTING
THE LOCKS, PZ02 AND PZ09 WELL COVERS WERE BROKEN,
LIDS STILL SEAT ON TOP OF WELL CASING, HOWEVER ARE
NOT ABLE TO BE LOCKED.

1730 ALL PERSONNEL OFF SITE, END DAY

Justin Reale
10/27/15

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(pad 26 of 1) Oct 2015

GROUNDWATER SAMPLING EVENT 10/28/15

WEATHER: ~~CLEAR~~ OVERCAST AND COOL, ~30°F LIGHT BREEZE AMPERSONNEL
ON SITE: JOHN NANCE, RACHEL HOBBS, LORETTA, DAVE LARSEN
CENNIE NATHANACHINDA-VEENEN, BRECHAN ENIGEL
USACE OVERSIGHT: JUSTIN RENCE0700 - ON SITE AT FIRE STATION, BEGIN SAFETY TAILGATE
BY J. NANCE AND L. HILL

0715 - CALIBRATE EQUIPMENT, PREP FOR DAYS ACTIVITIES:

- COLLECT REMAINING PIEZOMETER GW LEVELS
- CONTINUE PURGING OF MONITORING WELLS
- BEGIN SAMPLE COLLECTION FROM PURGED WELLS

TEAMS ARE: JN, RH; CWV, DL; LH, GE

0750 DL, CWV DEPART TO COLLECT PZ WATER LEVELS

0800 COLLECT PZ06 DTW MEASUREMENT

0809 COLLECT PZ05 DTW MEASUREMENT

0845 LH, GE DEPART TO PURGE WELLS

1000 JN, RH DEPART TO COLLECT SAMPLES

1445 ALL TEAMS AT BLDG 5 TO PREP SAMPLES TO SHIP

- PURGED: TMW41, TMW44, TMW21, TMW22,
- SAMPLED: TMW14, TMW19, TMW37, TMW36, MW22S,
TMW29, TMW40S, MW02, MW01
- COLLECTED GW LEVELS PZ05, PZ06

* PROBLEMS ENCOUNTERED: HORIBA WATER METER HAD PROBLEMS CALIBRATING, NEEDED TO USE BACKUP METER. HACH TURBIDITY METERS NOT CALIBRATING, TEAMS USED NTU READINGS FROM HORIBA METERS. PZ05 AND PZ06 DTW MEASUREMENTS COLLECTED ON THIRD DAY, HOWEVER, DTW MEASUREMENTS ON MONDAY BEGAN AFTER 0830 AND PZ05/PZ06 WAS COLLECTED BEFORE 0830 ON WED. THIS TECHNICALLY ACHIEVES THE 48 HOUR WINDOW PER THE WORK PLAN.

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10/29/15 FWD A FACILITY - WIDE OCTOBER 2015
GROUNDWATER SAMPLING EVENT

CONTINUED -

1630 ALL TEAMS OFF SITE, SAMPLES SHIPPED
END OF DAY

John Nance
10/28/15

(94)

(Jad abvd 1) R 2015
GROUNDWATER SAMPLING EVENT 10/29/15

WEATHER: PARTLY CLOUDY, CALM ~38°F AM
CLOUDY AND RAIN ~40°F PM

PERSONNEL ON SITE: DAVE LARSEN, JOHN NANCE, RACHEL HOBBS, LUKE HILL
CONNIE WATTANACHINDA - VERNON, GRETCHEN ENGEL

USACE OVERSIGHT: JUSTIN REALE

0700 TEAMS ONSITE AT FIRESTATION

0715 SAFETY TAILGATE BY J. NANCE & L. HILL

0730 CALIBRATE EQUIPMENT, PREP FOR DAYS ACTIVITIES

- CONTINUE PURGING MONITORING WELLS
- COLLECT GROUNDWATER SAMPLES

TEAMS ARE: JN, RH; DL, CWV; LH, GE

0830 ALL TEAMS DEPART FIRESTATION

1040 LIGHT RAIN AND OVERCAST

1345 ALL TEAMS AT BLDGS TO PROCESS AND
PACK SAMPLES TO SHIP

- PURGED: BGMW03, TMW33, TMW23,
- SAMPLED: TMW46, MW22S, MW02, MW01, TMW41
TMW22, TMW21, TMW44, TMW39, TMW31S
TMW30, TMW18

* PROBLEMS ENCOUNTERED: FIELD PRINTER NOT WORKING, HAND
WROTE FINAL CHAIN OF CUSTODY'S FOR SAMPLE
SHIPMENT

1700 ALL TEAMS OFF SITE, SAMPLES SHIPPED
END DAY

John Nance 10/29/15

(95)

FWD FACILITY - WIDE OCTOBER 2015
10/30/15 GROUNDWATER SAMPLING EVENT

WEATHER: OVERCAST AND RAIN 35°F

PERSONNEL ON SITE: DAVE LARSEN, JOHN NANCE, LUKE HILL, RACHEL HOBBS
CONNIE WATTANACHINDA - VERNON, GRETCHEN ENGEL

USACE OVERSIGHT: JUSTIN REALE

0700 ONSITE AT FIRESTATION

0715 SAFETY TAILGATE BY J. NANCE AND L. HILL

0730 CALIBRATE SAMPLING EQUIPMENT AND PREP FOR DAYS
ACTIVITIES

- CONTINUE PURGING MONITORING WELLS
- CONTINUE COLLECTING GROUNDWATER SAMPLES

TEAMS ARE: JN, RH; DL, CWV; LH, GE

0815 ALL TEAMS IN FIELD FOR DAYS ACTIVITIES

1120 RAIN STOPPED, HUMID AND COLD WITH LIGHT WIND

1330 ALL TEAMS RETURN TO BLDGS TO PROCESS AND
PREP SAMPLES FOR SHIPMENT

- PURGED: TMW07, FWB1, MW18D
- SAMPLED: TMW07, MW22S, TMW40S, TMW22
TMW23, TMW33, BGMW03, MW03, TMW26
TMW27,

* PROBLEMS ENCOUNTERED: NO INCIDENTS OR PROBLEMS TODAY

1530 SAMPLES SHIPPED

1600 ALL TEAMS OFF SITE FOR WEEKEND

John Nance 10/30/15

(96) FWDA FACILITY-WIDE OCTOBER 2015
GROUNDWATER SAMPLING EVENT 11/2/2015

WEATHER: CLEAR AND COLD, ~ 25°F

PERSONNEL: JOHN NANCE, RACHEL HOBBS, LUKE HILL, DAVE LARSEN
ON-SITE: CONNIE WATTANACHINDA - (VERNON), SHANNON WEGESSER
USAGE
OVERSIGHT: JUSTIN REALE

- 0700 PERSONNEL ONSITE AT THE FIRESTATION
0710 TARGETED SAFETY MEETING BY J. NANCE & L. HILL
0720 CALIBRATE SAMPLING EQUIPMENT, LOAD SUPPLIES
FOR DAY'S ACTIVITIES
• COLLECT GROUNDWATER SAMPLES
0830 ALL TEAMS IN FIELD TO COLLECT SAMPLES
0930 JN, RH CONTROL BOX FOR LOW-FLOW PURGING IS NOT
WORKING - RADIO J. REALE TO BE ON WATCH FOR FEDEX
DELIVERY OF BACK-UP CONTROL BOX
0945 FEDEX DELIVERS CONTROL BOX
1420 ALL TEAMS AT BLDG 5 TO PROCESS AND
SHIP SAMPLES
SAMPLED: ^{JN} MW22S, MW22D, MW20, FW31
FW31 EQUIP BLANK, MW18D

* PROBLEMS ENCOUNTERED: REPAIRED CONTROL BOXES NOT
FUNCTIONING PROPERLY, NEEDED TO USE RENTED BOX

- 1530 SAMPLES TAKEN TO FEDEX TO SHIP
1600 OFF SITE, END DAY

John Nance 11/2/15

11/3/2015 FWDA FACILITY-WIDE OCTOBER 2015
GROUNDWATER SAMPLING EVENT (97)

WEATHER: BREEZY AND COOL, CLEAR ~ 38°F AM
CLEAR AND BREEZY, ~ 55°F PM

PERSONNEL: JOHN NANCE, RACHEL HOBBS, DAVE LARSEN, LUKE HILL
ON-SITE: SHANNON WEGESSER, CONNIE WATTANACHINDA - (VERNON)
USAGE
OVERSIGHT: JUSTIN REALE

- 0710 ONSITE AT FIRESTATION
0720 SAFETY TARGETED BY J. NANCE & L. HILL
0730 CALIBRATE EQUIPMENT AND LOAD SUPPLIES FOR DAY'S
ACTIVITIES
• COLLECT GROUNDWATER SAMPLES
0800 ALL TEAMS IN FIELD TO COLLECT SAMPLES
LH, SW GO TO HOME DEPOT TO REPLACE FAULTY
POWER INVERTER
0830 LH, SW BACK ON SITE
1430 ALL TEAMS AT BLDG 5, PREP AND PROCESS SAMPLES
TO BE SHIPPED
SAMPLED: MW22S, TMW17, TMW40D, TMW14A,
TMW43, TMW45, SMW01, TMW54, TMW02,
* NO PROBLEMS ENCOUNTERED TODAY

- 1530 SAMPLES TAKEN TO FEDEX
1620 COLLECT TMW28 (DOES NOT HAVE NITRATE) AND STAGE
TO BE SHIPPED ON 11/4/15
1715 ALL PERSONNEL OFF SITE, END DAY

John Nance 11/3/15

(98) EWDA FACILITY-WIDE OCTOBER 2015
GROUNDWATER SAMPLING EVENT 11/4/15

WEATHER: SNOWY/SLEET MIX, ~30°F WINDY AM
SNOW/SLEET INTERMITTENT FLURRIES, ~25°F, WINDY PM
PERSONNEL JOHN NANCE, BEN MOAYYAD, LUKE HILL, DAVE LAESSEN, RACHEL HOBBS
ONSITE, SHANNON WEGESSER, CONNIE WATANACHINDA - VERNON
USACE
OVERSIGHT: JUSTIN PEALE

- 0700 ONSITE AT FIRESTATION
0710 TAUGATE SAFETY BY L. HILL & B. MOAYYAD
0725 CALIBRATE SAMPLING EQUIPMENT, LOAD FOR
DAYS ACTIVITIES
- COLLECT GROUNDWATER SAMPLES
- FIELD TEAMS ARE: LH, SW, CW, DL; RH, BM
- 0750 ALL TEAMS DEPART FIRESTATION FOR DAYS ACTIVITIES
1430 ALL TEAMS AT BLDG 5 TO PROCESS SAMPLES FOR
SHIPMENT
- SAMPLED: MW22S, TMW06, TMW04, TMW48,
TMW45, TMW31D, TMW08, TMW03, TMW39D,
TMW11
- * NO PROBLEMS ENCOUNTERED TODAY, DID HAVE
SOME ISSUES WITH CONTROL BOX BUT WAS ABLE
TO FIX
- 1530 SAMPLES TAKEN TO FEDEX TO SHIP
1645 ALL PERSONNEL OFFSITE, END DAY

John Nance
11/4/15

11/5/15 EWDA FACILITY-WIDE OCTOBER 2015
GROUNDWATER SAMPLING EVENT (99)

WEATHER: SNOWY AND BREEZY, ~20°F COLD AM
PARTLY CLOUDY AND COLD ~35°F PM
PERSONNEL JOHN NANCE, LUKE HILL, SHANNON WEGESSER, DAVE LAESSEN
ONSITE: RACHEL HOBBS, CONNIE WATANACHINDA - VERNON
USACE
OVERSIGHT: JUSTIN PEALE

- ~~JEN~~
- 0710 ARRIVE ONSITE AT FIRESTATION
0735 SAFETY TAUGATE BY J. NANCE
0745 CALIBRATE SAMPLING EQUIPMENT, LOAD SUPPLIES
FOR DAYS ACTIVITIES
- COLLECT GROUNDWATER SAMPLES
 - PURGE AND SAMPLE MW23 & MW24
- 0815 ALL TEAMS IN FIELD FOR DAY
0900 CLOUDS PART, SUN IS OUT. MELTING FROZEN GROUND
AND MAKING DIRT ROADS DIFFICULT TO PASS
1510 ALL TEAMS AT BUILDING 5, PROCESS SAMPLES
FOR SHIPMENT
- SAMPLED MW24, TMW45, TMW31D, TMW08
BGMW01, BGMW02, TMW11, TMW47
 - PURGED MW23
- * NO PROBLEMS ENCOUNTERED TODAY
- 1540 SAMPLES TAKEN TO FEDEX TO SHIP
1700 ALL PERSONNEL OFF SITE, END DAY

John Nance
11/5/15

(180) FWDA FACILITY-WIDE OCTOBER 2015
GROUNDWATER SAMPLING EVENT 11/6/15

WEATHER: MOSTLY CLOUDY, CALM AND COLD ~ 21°F AM

PERSONNEL: JOHN NANCE, DAVE LARSEN, RACHEL HOBBS, LUCE HILL
ONSITE: SHANNON WESTESSER, CONNIE WATANABE-HINDA - VERNON
USACE

ONSITE: JACKIE SMITH

0625 JN, RH ONSITE TO ACCESS MW23 BEFORE GROUND THAWS

0700 ~~ARRIVE~~ REMAINING CREW ARRIVES ONSITE.

0735 SAFETY TAILGATE BY L. HILL

0740 CALIBRATE EQUIPMENT, PREP FOR FINAL DAYS SAMPLING

- COLLECT GROUNDWATER SAMPLES.
- CLEAN WORK AREAS
- DEMOB FROM SITE

0845 TUBING SPLIT AT TMW24 - NEEDS REPAIR

0945 RH, JN RETURN FROM DALW23, DROP SAMPLES AT BLDG 5

1015 JN AT TMW24, REPAIR AIR & WATER LINES
CWV & DL TO SAMPLE TMW24

1300 ALL TEAMS AT BLDG 5. PREP SAMPLES FOR SHIPMENT AND CLEAN WORK AREAS

1430 SAMPLES TAKEN TO FED EX

1500 CHECK IN RADIOS, KEY SETS. VERIFY CLEANUP WITH USACE. DEMOB FROM SITE, END FIELD EVENT

- SAMPLE TMW38, MW23, TMW24, TMW15

* NO PROBLEMS ENCOUNTERED TODAY

END DAY

John Nance 11/6/15

92 Location FWDA Date 4/10/2015
 Project / Client Facility-Wide April 2015
Groundwater Sampling Event

- 1110 Return to fire station to pack samples and unload equipment. Clean fire station, conduct equipment inventory, breakdown recycle materials.
- 1225 Depart to FedEx
- 1330 Return to fire station to load luggage / return FWDA Keys. Depart site - return to ABD.

Ana Cochran

4/10/15

Location FWDA Date 10/26/15
 Project / Client Facility Wide Groundwater
Sampling Event October 2015

- 0700 Meet on site - check in with USAF. Safety briefing
- 0845 Mob to building 43, assemble equipment for day. Clear, 40F
- 0930 leave building 43 to begin water levels
- Personell on site J. Nance, Luke Hill, Connie Vernon, Dave Gretchen Engel, Rachel Hobbs G. Engel & R. Hobbs on book
- 0935 Arrive at TMW-41, 0950 TMW22, 1002 TMW44, 1010 TMW03
- Ant hills at TMW03 → strategize how to set up for sampling, ant hill at TMW036, ~~AT~~
- 1023 TMW04, 1030 TMW36 - cob webs in well vault, 1043 TMW02, 1047 TMW40S, 1050 TMW40D,
- 1100 TMW47, 1119 395¹¹²³, 390¹²⁰⁰, 1211 TMW31S
- 1205 TMW31D, 1210 TMW48, 1222 TMW37, 1234 TMW01
- 1235 Weather over cast, breezy, 1305 TMW30, 1310 TMW49, 1322 TMW15, 1330 TMW11, 1337, TMW17, 1357, TMW19a

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Location FWDA Date 10/26/15Project / Client Facility Wide Groundwater
Sampling Event October 2015

1406 TMW 16, 1419 TMW 18
 1430 Meet of Nance and Luke Hill,
 to see how to get to TMW 19
 1456 TMW 19,
 1508 TMW 29,
 1517 TMW 38
 1528 TMW 13, 1536 TMW 32, 155 TMW 43
 1603 TMW 21
 1615 Return to Building 4.3, turn in
 paperwork. end of day

Rachel Noble
 10/26/15

Location FWDA Date 10/27/15⁻⁹⁵Project / Client Facility Wide Groundwater
Sampling Event October 2015

0700 Team on site Luke Hill, Ben
 Moayyad, Gretchen Engel, Junn Nance,
 Connie Vernon, Rachel Hobbs, Dave Cousins
 Weather clear cool 30°F
 Health and safety briefing Planning
 day & week. Load vehicles and calibrate
 equipment.
 Leave for sampling Perform equipment
 blank on Grand fos pump
 Team: ~~Luke Hill~~ on book Luke Hill
 Ben Moayyad, Gretchen Engel
 0900 Collect ~~FW102015EQ001~~
 TB-01-102015
 0940 Collect ~~FW102015EQ001~~
 1015 Headed to TMW-30 to
 purge
 1045 Begin purging TMW-30
 1052 TMW-30 purged dry
 1120 Begin purging TMW-315
 1133 TMW-315 purged dry
 1144 Dumping purge water
 1205 Begin Purging TMW-395
 1214 TMW-395 purged dry
 1245 Begin Purging TMW-46
 1256 TMW-46 Purged Dry

96

Location FWDA Date 10/27/15
 Project / Client Facility Wide Groundwater
Sampling Event October 2015

- 1310 Drop off equipment @ fire station
 1325 Dump Purge Water @ evaporation basin
 1340 Packing equipment blank sample for shipment
 1440 Headed to FedEx to ship samples
 1515 Samples shipped
 1525 Picking up nitrogen tanks
 1615 Nitrogen tanks delivered to site
 1630 Leaving site

[Signature] 10/27/15

97

Location FWDA Date 10/28/15
 Project / Client Facility Wide Groundwater
Sampling Event October 2015

- 0700 Onsite. Health & safety briefing
 Equipment calibration. Planning for day. John Vance, Rachel Hobbs, Dave Larson, Connie Vernon, Luke Hill, Gretchen Engel
 Book - Luke Hill & Gretchen Engel
 0850 To TMW 41
 Clear, calm, overcast 40°F
 0952 Purged TMW 41 ^{at} with Grundfos pump
 0959 End purge
 1056 TMW 44 purged with Grundfos
 1100 End purge
 1219 TMW 21 purged with Grundfos
 1227 End purge Missing well cap
 1321 TMW 22 purged with Grundfos
 1325 End purge
 1400 Onsite to pack samples
~~1600~~ At Bldg 34 to unload
 1545
 1630 Offsite

[Signature]
 10.28.15

98

Location FDWADate 10.29.15Project / Client Facility-wide Groundwater
Sampling Event October 2015

0700 Team onsite

Luke Hill, Gretchen Engel, John Vance,
Dave Larson, Rachel Hobbs, Connie Vernon
Safety meeting - Slips, trips, falls, pinch
points. Weather cool and clear 35°FBook → Luke Hill and Gretchen Engel
Loaded trucks, calibrated equipment

0850 Onsite at BGMW03

~~0900 Pyle~~

0916 End purge

1020 Onsite TMW33

1041 End purge

1120 Onsite TMW23

1143 End purge

1240 Onsite TMW46

Sample collected 1300

1320 Back to Bldg 5 to pack
samples

1600 At Bldg 31 to unload truck

1700 Offsite

10.29.15

99

Location FDWADate 10.30.15Project / Client Facility-wide Groundwater
Sampling Event October 2015

0700 Team onsite

Luke Hill, Gretchen Engel, John Vance,
Dave Larson, Rachel Hobbs, Connie Vernon
Safety Meeting - Slips and trips, rain-
slick truck beds.Calibrated Horiba turbidity meter
Loaded trucks

This books Luke Hill & Gretchen Engel

Weather 35°F raining

0815 Onsite TMW07

0828 End purge

0930 Onsite FW31

0947 End purge

Rain stopped approximately 09:00

1100 Onsite MW18D Temp. 40°F

1121 End purge

1200 Onsite TMW07 to sample

1210 Sample time

Collected full suite

1300 Returned to ship samples

1530 Samples sent to FedEx

Unload truck

Offsite to Albuquerque

10/30/15

100

Location FWDA Date 11/2/15
 Project / Client Facility - Wide Groundwater
Sampling Event - October 2015

0700 Arrive @ fire station
 0710 H+S Meeting, Review of week's activities
 0720 Loading equipment into trucks
 0725 Personnel: L. Hill + S. Wegesser
 0800 Collecting bottle sets for today's sampling; Pick up bailers @ hotel
 0930 Collect FW31102015EB0002
 1030 Head to FW-31
 1105 Collect FW31102015
 1145 Heading to MW-18D
 1230 Collect MW18D102015
 1300 Packing Samples
 1400 Shipping Samples
 1630 Unloading Equipment @ Fire Station
 1700 Leaving site

[Signature] 11/2/15

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Location FWDA Date 11/3/15
 Project / Client FACILITY-WIDE GROUNDWATER
SAMPLING EVENT - NOVEMBER/OCTOBER 2015

0715- ARRIVE @ FIRE STATION
 0720 H+S MEETING, REVIEW OF DAY AND WEEKS ACTIVITIES
 0730 DROVE INTO TOWN TO PURCHASE POWER CONVERTER
 0800 RETURNED TO SITE, COLLECTED BOTTLE SETS FOR DAYS SAMPLING EVENT
 0830 HEADED TO TMW43102015 TO COLLECT SAMPLES
 PERSONNEL: L. HILL + S. WEGESSER,
 WEATHER CLEAR, ~50° F
 0905 Setting up @ TMW43
 0950 Collect TMW43102015
DTW43102015
TMW43102015MS
TMW43102015MSD
~~1300 Y/B.~~
 1300 Setting up @ TMW45
 1250 Collect TMW45102015
 1335 Begin Packing samples
 1535 Samples shipped; Begin preparation for tomorrow's sampling
 1645 Leaving site

[Signature]

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Location FWDADate 11/4/2015Project / Client FACILITY-WIDE GROUNDWATER
SAMPLING EVENT - OCTOBER/NOVEMBER 2015

0725: ARRIVE ON SITE

PERSONNEL: LUKE HILL

BEN MEAYYAD

SHANNON WEGESSER

0730: LOADING EQUIPMENT INTO TRUCKS

0740: H & S MEETINGS, REVIEW DAILY +

WEEKLY ACTIVITIES

1005 Collect TMW131020151105 Collect TMW011020151300 Collect TMW101020151330 Collect TMW25102015

1400 Begin packing samples

1520 Samples being taken to FedEx

1600 Samples shipped

1630 Disposing of purge H₂O+ unloading equipment @
Fire Station.

1700 Leaving site

LH 11/4/15

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Location FWDADate 11/5/2015Project / Client FACILITY-WIDE GROUNDWATER
SAMPLING EVENT - OCTOBER/NOVEMBER 2015

0720: ARRIVE ON SITE

PERSONNEL: LUKE HILL, SHANNON WEGESSER

0730: LOADING EQUIPMENT INTO TRUCKS

CALIBRATING EQUIPMENT

0745: H & S MEETINGS, REVIEW DAILY +
WEEKLY ACTIVITIES

0835 Setting up @ TMW-45

0910 Collect TMW45102015

1032 Setting up @ TMW30D

1125 Collect TMW31D102015

1325 Setting up @ TMW-08

1310 Collect TMW08102015

1440 Packing samples

1530 Samples taken to FedEx

1600 Samples shipped

1630 Disposing of purge H₂O,
unloading equipment, + cleaning
up.

1700 Leaving site

LH 11/5/15

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Location FWDA Date 11/6/2015Project / Client FACILITY WIDE GROUNDWATERSAMPLING EVENT

0730: ARRIVED ON SITE

PERSONNEL: LUKE HILL, SHANNON WEGESSER

0735: LOADING EQUIPMENT INTO TRUCKS

WEATHER: CLEAR, SUNNY, 20°F, WIND CALM

0745: HAS MEETING + REVIEW OF DAILY
+ WEEKLY ACTIVITIES

0830 Setting up @ TMW-24

0845 Nitrogen tubing split. Heading
to TMW-38. Will repair TMW-24

following TMW-38 sampling.

1000 Collect TMW381020151135 Return to Building #5 to
pack samples1200 Packing samples, unloading
equipment, cleaning up

1400 Shipping samples

1430 clean up

1500 Leaving site

11/6/15

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Location _____ Date _____

Project / Client _____

10/26/15 Fortwindgate Ground Water
 Staff: David Larsen and Constance Waffanachinda-Vernon
 9:30am Arrived at MW 23. ^{Sampling} ^{Depot}
 10:00am Arrived at PZ 10 wells. Took out
 Bucket and Equipment. We found that we did not
 have the keys to these wells. Dave called John
 to inform him that we don't have the well keys.
 John said "Do the wells we have the keys for
 and return later to complete the PZ 10 wells
 after we get the keys."
 10:30 We went to see John and Luke in person.
 Dave talk to John again about the PZ 10 keys.
 John said he will check for us. John told us
 to continue with the wells on our list that
 we have keys for.
 10:50 Dave accidentally dropped the rubber top
 to well Blm w 2 inside of the well
 casing.
 12:30-12:50 we ate lunch.
 2:15 we were approved for access to wells
 to TMW 27 and GMW 01. John gave us
 a code to use ~~the~~ one of the locks and
 the lock still did not open. We were able
 to open ~~one~~ of the locks with a key.
 We returned to the Fire station after
 we completed all assigned wells, except
 for the "PZ's". As of 3:20pm we
 do not have keys/access to these
 wells. John is currently working on
 getting us the keys. All of the work
 has been smooth without any incidents.
 16:20 Leaving the site

[Signature] 10/26/15

10/27/15 Fortwindgate Depot ^{Vernon}
 Staff: David Larsen and Constance Waffanachinda
 started work at 8:00-
 Arrived at 9:30am - FW 35 we were only able to
 bail 100 mL. The well seems like it may be drying.
 09:52 Arrived at TMW 40 S.
 10:02 arrived at TMW 4 Trubidity meter broke.
 After the 3rd reading. We were unable read
 the NTC for the 4th reading. Dave called John
 and told him about the problem with the meter.
 Dave and I returned back to the Fire Station
 to fix the meter if possible. Dave also changed
 the batteries. The meter was unable to be
 repaired for use. Dave called John and let
 him know. We are going use the NTU readings
 from the Horiba for the rest of the day.
 11:15am Arrived at TMW 29. Due to the loss
 of the Trubidity meter, we are using the
 Horiba meter to check the NTU readings.
 12:39pm Arrived at MW 22 S. We took one
^{reading} ~~sample~~ from ^{the} well because, we only ^{were} able to
 collect 700 mL.
 Arrived at MW 22 S at 12:42pm - we were able to collect
 only 700 mL.
 1:03pm Arrived at MW 02, we were able to take
 3 ~~readings~~ ^{readings}. We used the Horiba meter for the
 "NTU" reading.
 1:58pm We arrived at MW 01 - we were able to
 take 3 readings. This well had plenty of water.
 Dave and John were working on getting keys
 or replacing the locks on the "PZ" wells.
 John informed Dave - we had approve to remove
 the old locks from the "PZ" wells and replace
 with new locks. Dave and myself found a lock
 cutter and we replaced the locks on the following

Wells "PZ" 1, 2, 3, 4, 7, 8, 9, and 10.
 Dave and myself with continue on 10/26/15
 early morning to complete the readings
 for "PZ" wells 5 and 6. While cutting the
 locks for replacement on "PZ" wells 2 and 9,
 Dave accidentally broke the well covers.
 John and Dave will be working on
 replacement covers on 10/27/15.
 Today was a great day and we were
 to completed all assigned work
 without incidents. PZ well lock replacements
 4:20pm - 5:30pm

10/26/15

~~Paul W. V.~~

10/28/15 FWDA - Ground Water Sampling Oct 2015
 Staff David Larsen and Constance Wattenbinder
 Vernon

7:05am - 7:50am Safety meeting w/ John
 and Luke and Staff,

7:50am Dave and myself drive out to ~~table~~^{get}
 the DIWT's on PZ 5 and PZ 6.

8:00am arrived at PZ 6 walked to location from Road.

8:09 arrived at PZ 5 walked to location from PZ 6.

8:20am went back to Fire Station to pick up Sampling
 Supplies and equipment for the day.

8:50am Arrived at ~~AW~~ MW 22.5 for sampling

09:45am Arrived at TMW 29 for Sampling

10:30am Arrived at TMW 40.5 for Sampling

11:25am Arrived at MW 02 for Sampling

12:30am Arrived at MW 01 for Sampling

Returned to Fire Station at and then to
 Blvd 51 to prepare Samples for shipping.

1:20pm We are at Blvd 51 working on
 the coolers, and preparing for shipping.
 We packed coolers, samples and ice to
 Ship the samples.

3:25pm Dave and myself were assigned
 to take the samples to Fedex. We delivered
 all samples to the Fedex store by 3:54pm.
 All samples in ice chest will be on the Fedex
 truck today.

10-28-15

~~Paul W. V.~~

10/29/15 FWA Groundwater Sampling
 Staff David Larson and Constance ^{10/29/15}
 Wattanachinda ^{10/29/15}

0700 Safety meeting with John.

0750 Started collecting our supplies
 for the day.

0821 We arrived at ~~the~~ TMW405 to
 collect samples. The weather is cold and
 slightly windy.

0911 Arrived at MW225 for sampling

0950 Arrived at MW02 for sampling

1010 Arrived at MW01 for sampling

1042 Arrived at TMW41 for sampling

We started getting a little rain.

1159 Arrived at TMW22 for sampling.

Lightly raining and cold outside.

1305 Arrived at TMW21 for sampling.

it is raining a little more. We are still

able to proceed with our sampling task.

1340 We returned to the fire station because

we completed all of our samples for the

day. Dave and myself emptied out the

back of our truck. Because we were going to

deliver the samples to Fedex after the

sample ice chest were ready for shipping.

All Team members worked together to

prepare the ice chest and samples for

shipping.

1540 Dave and myself drove to the Fedex

location to drop-off the ice chest filled

with samples.

1555 all samples delivered to Fedex

and placed on the truck. Dave and myself

waited at Fedex until all ice chest were

placed on the truck. Today was a great day

1700 Dave and myself are off from work.

10/29/15

Collected

10/30/15 F W D A Groundwater Sampling
 Staff David Larsen and Constance 102015
 Wattanachinda-Vernon

0700 Staff meeting
 0750 Started packing the truck with Supplies and equipment for Well Sampling.
 0802 Arrived at MW 22.5 for Sampling. This well is very close the Blvd we get our supplies from. Today started out very cold and rainy.
 0855 Arrived at TMW 40.5. It is raining and cold. We were able to do our sampling without any problems.
 0920 Arrived at TMW 22. It is raining, cold and slightly windy. We are able to sample.
 0943 Arrived at TMW 23 for Sampling.
 1120 Arrived at TMW 33 for Sampling. The rain has stopped. We were able to collect the samples without getting too wet. Hope fully the rain has stopped for the day. Took 15 samples.
 12:30pm arrived at BG MW 3. This is the last well for us today. We will report to Building 51 to prepare the samples for shipping.
 1:30 pm Dave and Myself returned to the fire station to put our supplies and equipment in storage, and clean our truck bed out. We will be delivering the samples inside of the ice chest to the Fedex office.
 3:30 pm Dave and Myself drove the sample to the Fedex office. We waited at the Fedex store to ensure that all ice chest with samples were placed on the truck. Today was cold, and wet! The whole team had a great day without incidents!
 10-30-15

10/2/2015 F W D A Groundwater Sampling
 Staff David Larsen and Constance 102015
 Wattanachinda-Vernon

0700 staff meeting
 0800 started collecting Supplies and Equipment for today.
 0900 TMW 35 - setting up equipment for well testing / samples -
 0955 started collecting samples. The process was completed at 11:00.
 11:15 arrived at MW 22.5 to collect additional samples. We had to do a partial again today because the well only had 500 mL. And the well went dry.
 11:25 We cleaned the equipment to prepare to collect samples from well 22 D.
 22.5 and 22 D are at the same location.
 11:35 we started collecting samples from 22 D. The process took awhile because we had to collect several readings before we could collect the samples.
 12:10pm We started collect the water for the samples.
 1:45 pm we finished collecting samples for 22 D.
 We are cleaning equipment and going to Blvd 51 to start checking our sample list and prepare the samples for shipping.
 2:20 pm We empty our truck, return our equipment to the fire station.
 3:20 pm We leave Fortwindgate to take the samples to Fedex.
 4:00 pm We return the Generator to the Rental Company.
 11/2/15

11/3/15 FWDA Groundwater Sampling
 Staff Dave Larsen and Constance Watanachinda 102015
 0700 Arrived at the fire station.
 0710 Safety meeting with John and
 crews. 0730 starting loading up the
 truck with equipment and supplies.
 Arrived at MW225 0741 to take samples
 we were only able to obtain 1 sample.
 0946 Arrived at TMW17 to collect samples
 we set up the equipment to purge the well.
 took data into every 3 minutes and collected
 samples at 10:18 am.
 Before we arrived at TMW17 we arrived at
 TMW40B at 8:26 am. We purged this well
 and collected samples at 9:00 am.
 11:24 am we arrived at TMW14A to
 purge and collect samples. We collected
 the samples at 12:00 pm. We arrived at
 the fire station at 1:45 pm to return all
 of our equipment to our space. All wells
 were able to collect the purged samples.
 2:15 pm we arrived at Blud 51 to prepare
 samples for shipping.
 3:30 pm all samples ready to ship. Dave
 and myself are going to deliver all samples
 to fedex. Today was a great day. All team
 members worked together and did an
 awesome job!

Carell Watanachinda 11/3/15

11/4/15 FWDA Groundwater Sampling 202015
 Staff Dave Larsen and Constance Watanachinda
 0700 Arrived at Fire station - Vernon
 0710 Safety meeting with John and crew members.
 0740 Started loading up the truck with supplies
 and equipment. Stopped by Blud 51 to pick up
 additional supplies.
 0800 Arrived at MW225 to take the last sample.
 0810 we were able get enough water to collect
 the last sample. We left the well to go to
 TMW06. We arrived at 0939.
 0839 Arrived at TMW06 we set up and started
 the purging process. We collected samples at
 0904 and finished at 1020.
 1035 we arrived at TMW04 to purge the well
 and collect samples. We started collecting
 samples at 11:04 until 1225.
 1235 We arrived TMW40 we started the
 purge process and collected samples
 1304 until 1347. The weather all day
 has been cold, wet, snowy and rainy.
 1400 we returned to Blud 51 and then
 we went the fire station to unload the
 truck, and prepare to deliver the samples
 to fedex. We return to Blud 51 to prepare
 the samples for shipping. All crew members
 worked to prepare samples for
 shipping. Today was a great day!

Carell Watanachinda 11/4/15

11/5/15 FWDA Groundwater Sampling
 Staff Dave Larsen and Constance Watanachinda ¹⁰²⁰¹⁵ Vernon
 0700 arrived at the fire station. There is snow
 everywhere, due to a severe snow storm last
 nite. All team members dressed warm and
 prepared for the cold temperatures.
 0710 Safety meeting with John. All team members
 present. John discussed safety in extreme cold
 weather and the other safety issues.
 0800 we started loading our truck with supplies
 and equipment for the day. And then we drove
 to Blvd 5 to pick up additional sampling supplies.
 0834 arrived at 1361 MW01 started the
 purge process at 0845. Took samples at
 0900 until 1018. Drove to 1061 MW02.
 Arrived at 1061 MW02 at 1023. Started
 purging the well at 1031. Started taking
 samples at 1050. finished at 1150.
 1200 Arrived at Blvd 5 to pick up more
 1 liter amber bottles.
 1220 arrived at TMW11 to complete
 the partial sample collection on 11/4/15.
 Started sample collection at 1240. finished
 at 1305.
 1318 we arrived at TMW47. started the
 purge process at 1325. Took samples at #1340
 and finished at 1447.
 1505 we arrived at Blvd 5 to prepare all
 the samples for shipping for each team.
 Dave and myself delivered all ice chest
 with samples to fedex. Today was very
 cold, wet and cloudy. All team members
 did a great job!

C. O. Muelo 11/5/15

11/6/15 FWDA Groundwater Sampling
 Staff Dave Larsen and Constance Watanachinda ¹⁰²⁰¹⁵ Vernon
 0700 arrived at the fire station. There is still a little
 snow and ice on the ground. Safety meeting with
 Luke. Watch out for ice, be careful driving in the
 mud. Try not to get stuck, watch where you are
 walking. We started loading up our truck with
 supplies and equipment for the day. We went
 to Building 5 for additional supplies.
 0825 arrived at TMW15 to collect samples and
 purging the well. We had to collect samples
 for TMW15 and duplicates for this well DTW15.
 0845 we started collecting the samples and
 completed the collecting at 1135. Earlier
 in the morning, Luke had TMW11 to
 collect samples from. The well was frozen.
 Dave and myself volunteered at 1130 to
 collect the samples from TMW11. I can't
 remember which well we went too. It was
 the last well of the day. We collected the
 samples and were finished by 1300. Dave
 and myself reported back to Building 5
 to check in with Luke and John. We turned
 in our samples and then went to the fire
 station to unload our truck to prepare for
 delivery the ice chest with the samples
 to fedex. After we delivered the ice chest to
 fedex, we started on our way back to
 Albuquerque to the Sundance office. Today
 was a great day! All team members
 helped clean up the fire station and Building
 5 prior to leaving the work site at
 Fort Windgate.

C. O. Muelo 11/6/15

10/27/15 FWDA Groundwater Sampling
Facility - Wide October 2015

Weather - cold in AM, 30s, clear and sunny
Personell on site → J. Nance, R. Hobbs, D. Larson,
Connie Vernon, Personell on book J. Nance,
R. Hobbs.

- 0700 Arrive on site, check in
- 0730 Safety briefing, pack up materials
for day
- 0915 Picked up nitro tank
- 0930 Mob to TMW16, begin purging at
0950
- 1014 Well Purged dry, pack up site
- 1030 Mob to TMW30 to give generator key to
E22 Personell
- 1035 Mob to TMW19, and set up
- 1010 Begin purging @ approx 3.76 l/m
- 1152 well dry, pack up site, mob to TMW18
- 1200 Dump water - IDW water at
evaporation tank
- 1210 Mob to TMW18, and setup.
Begin purging 1232
- 1302 Well went dry after reading, mets RGH
Pack up and mob to TMW37.
- 1315 Arrive at TMW37 and Setup
- 1338 Start Purging
- 1402 Finish purging well, dry at 1402,
pack up
- 1425 Mob to evaporation tank to dispose
of IDW water
- 1435 Return Mob to TMW36
- 1500 Set up at TMW36
- 1507 Begin purging
- 1550 Well Purged dry

FWDA G.W. Sampling Facility Wide 10/27/15
Continued

1600 Dispose of IDW water at evaporation
tank, and return to building 34, put
away equipment for evening
1640 Leave site for day

Rachel Hobbs
10/27/15

10/28/15 EWDA Facility Wide GW
Sampling Event October 2015

0700 Morning Safety Meeting
0730, Begin to pack up and calibrate
for day RH.

0930 ~~Pick up supplies~~ Unable to
calibrate DO on meter #
to zero. Calibrates to 1.2 mg/L
with zero solution. Replaced
fluid and membrane on instrument
and checked cal. fluid against
another instrument.

0950 Picked up ice and bottles
from building 5.

→ Personnel on site: R. Hobbs, J. Nance,
C. Vernon, D. Larson, L. Hill, G. Engle
On Book → R. Hobbs & J. Nance

Weather: Cold in AM ~ 30s, overcast

1020 Arrive at TMW16 and set up

1040 Collect TMW16 10/2015

1111 Finish collecting sample, packed
up, Mob to TMW19

1135 Collect sample at TMW19

1200 Finish at TMW19, dispose of IDW water
at evaporation tank, and mob to TMW37

1241 Collect sample at TMW37

1330 Mob to TMW36

1350 Collect TMW36 10/2015

1415 Return to building 5 to pack
samples to ship

1540 Samples packed → shipment
leaves for Fed Ex. Return to
building 34 to unload equipment
from day.

1620 End of day

Rachel Hobbs
10/28/2015

- 10/29/15 FWA Facility-wide GW
c Sampling Event October 2015
- personnel on site: J. Nance, R. Hobbs,
D. Larson, C. Vernon, Gr. Engel, L. Hill.
 - personnel on book: R. Hobbs, J. Nance
 - Weather: Late High 30s in AM, partly cloudy
- 0715 Morning safety meeting, calibrate &
pack up supplies for day
- 0834 Mob to TMW18
- 0840 Not enough recharge at TMW18
to sample. Pack up to go to TMW44
- 0910 Collect Sample at TMW44
- 1010 Collect Sample at TMW39
- 1100 Collect Sample at TMW315
- 1205 Collect Sample at TMW30
- 1230 ~~Collect~~ ^{6th} Meet with L. Hill to
determine rest of day's work
- 1320 Collect sample at TMW18
- 1345 Return to building 5 to pack
and ship samples
- 1530 Printer not working, have
to hand write Coc for shipment
- 1545 Samples leave for shipment
- 1600 Unload truck for end of day
- 1650 dump 10W water at exportation
tank.
- 1700 Leave for day

10/29/15
Rachel Hobbs

- 10/30/15 FWA Facility-wide GW
c Sampling Event October 2015
- Personnel on site: J. Nance, R. Hobbs, L. Hill,
G. Engel, D. Larson, C. Vernon, On book:
J. Nance, R. Hobbs
 - Weather: overcast, raining in AM
- 0715 Safety briefing, pack up for day
- 0815 Mobilize to MW03
- 0830 Begin purging at MW03
- 0910 Collect Sample at MW03
- 1010 Mob to TMW06
- 1115 Collect Sample, Dupe MS & MSD @
TMW26
- 1220 Mob to TMW27 RGH
- 1315 Collect Sample at TMW27
- 1330 Return to Building 5 to pack
samples for shipping
- 1530 Samples leave for delivery, finish
cleaning up building for week.
- 1600 End of day

Rachel Hobbs
10/30/15

11/2/15 FT Wingate Facility Wide
GW Sampling Event October 2015
0700 Safety briefing, discuss sampling
for day

Weather: Cold in AM, sunny, clear
Personnel on site: R. Hobbs, J.
Nance, C. Vernon, L. Hill, S. Wegesser
Personnel on book: R. Hobbs,
J. Nance

0830 Pick up bottles, ice from
Building 5 and nitrogen tanks

0850 Arrive at MW20, set up

0930 Control box not working,
valve leaking. Try other two,
all inoperable.

0945 New control box delivered by
Fed Ex

1002 Begin Purging, USACE Rep
J. Reale on site

1030 Collect MW20, DMW20, MW20 MS
and MW20 MSD

1400 Return to Building 5 to
pack samples to ship

1530 Samples leave for FedEx,
clean up, put away equipment.

1600 End of Day

Rachel Hobbs
11/2/15

11/3/15 FT Wingate Facility Wide
GW Sampling Event October 2015

Weather: Breezy, clear, cool in AM - high
50s

Personnel on site: J. Nance, R. Hobbs, C. Vernon,
D. Larson, S. Wegesser, L. Hill. On Book -
R. Hobbs & J. Nance

0700 - Safety briefing, load up for day.

0810 - Mob to SMW01

0910 - Collect Sample at SMW01

1000 - Load up and Mob to TMW34

1040 - Begin Purge @ TMW34

1130 - Collect Sample at TMW34 - Collect DTW34

1215 - Clean up, and go to TMW02 TMW34

1340 - Collect sample at TMW02

1430 - Return to building 5 pack up for
shipping

1530 Samples leave for Fed ex, Mob
to TMW28

1620 Collect sample at TMW28 return
to building 34 and unpack
for day

1715 End of day

11/3/15
Rachel Hobbs

11/4/15 Ft Wingate Facility Wide
GW Sampling Event
Oct. 2015

0715 Tailgate safety meeting
0720 Pack up for day
0800 Mob to TMW03 control
box not working - work
on control box to determine
problem.

Weather: Cold, Snowy, slushy, sleet
and rain. In 30s.

Personel on site R. Hobbs, B Moayyad,
J. Nance, D. Larson, C. Vernon, K. Vernon,
S. Wegesser, L. Hill

On Book: R. Hobbs, B. Moayyad,

1000 ~~1000~~ Sample at TMW03 - Manually
connected well to Nitrogen
to purge and sample since
control box was inoperable

1100 Pack up and Mob to TMW39D
Purge and sample using same
method

1200 Sample TMW39D

1220 Pack up, and mob to TMW11.

1250 Begin purging at TMW11

1325 Collect sample at TMW11

1350 Pause sampling due to inclement
weather, then continue sampling

1400 Nitrogen tanks empty. Only able
to get partial sample at TMW11

1415 Return to building & to pack
samples to ship for day

1530 Samples to Fed Ex, drop
IDW Water

1600 Pick up J. Nance from USACE office
Look at control box - it is working.
1630 End of day

Rachel Hobbs
11/4/15

- 11/5/15 Ft Wingate Facility Wide GW
Sampling Event October 2015
- 0715 Tailgate, personnel on site. J. Nance,
R. Hobbs, C. Vernon, D. Larson, S. Wegesser,
L. Hill,
Weather - Snowy →, breezy,
- 0815 Pack up for day, mob to MW23
- 0910 Begin purging at MW23
- 1017 MW23 purged Dry, pack up to
go to MW24,
- 1120 Purging MW24
- 1140 Sample MW24, pack up and
return to MW23
- 1200 Purge MW23, ~100 gallons
purged at MW23 at 1300
- 1300 Pack up and return to
building 5. Conditions muddy on
road. Snow melting creating
mud. very hard to drive through
- 1330 Pack up materials to sample
TMW32
- 1350 Begin purging at TMW32
- 1500 Collect sample at TMW32, and
return to building 5
- 1530 Pack up samples to ship
- 1540 Samples to Fed Ex
- 1630 Take tank to evaporation tank
with trash pump to pump off
IDW water
- 1655 End of day.

Rachel Hobbs

11/5/15

- 11/6/15 Ft Wingate Facility Wide GW
Sampling Event October 2015
- Weather - cold in AM - below freezing,
Personell on site R. Hobbs & J. Nance
- 0625 Arrive on site. RH & JN Arrived on
site before rest of personell to
get to MW23 while road is still
frozen and site is accessible.
Pack up materials & supplies for day
- 0645 Mob to MW23. Road is frozen and
passible
- 0725 Begin purging at MW23
- 0835 Collect sample at MW23
- 0945 Return to Building 5 to pack
samples, ship, and clean up.
Organize materials and
supplies from sampling event
- 1430 Samples to Fed Ex. Buildings
5 and 34 cleaned up. Leave
site.

Rachel Hobbs

11/6/15

- 12/1/15 FWDA Additional
Nitrate Sampling Event at TMW28
- 1045 Arrive at FWDA. Check in w/ USACE. Sign
out radio & keys
- 1100 Pack up supplies for nitrate/nitrite
sample at TMW-28
- 1130 Arrive at TMW-28 and set up
- 1155 Begin purging 2.75 L/5min
- 1330 Finish purging 3 well volumes → 13
gallons
- 1335 Collect sample for TMW28102015
Nitrate
- 1350 Return to main post, dispose of
purge water, and put away
supplies
- 1415 Pack sample to ship, fill out
CDC
- 1445 Return to main trailer to
return radio & keys, sign out
- 1500 Return to ABQ → will drop
sample at Fed Ex in ABQ

~~Rachel Hobbs 12/1/15~~