



Associate Director for ESH
 Environment, Safety, and Health
 P.O. Box 1663, MS K491
 Los Alamos, New Mexico 87545
 505-667-4218/Fax 505-665-3811

RECEIVED

OCT 21 2015

**NMED
 Hazardous Waste Bureau**

Environmental Management
 Los Alamos Field Office, MS A316
 3747 West Jemez Road
 Los Alamos, New Mexico 87544
 (505) 665-5658/FAX (505) 606-2132

Date: OCT 21 2015

Refer To: ADESH-15-155

LAUR: 15-27871

Locates Action No.: U1501050

John Kieling, Bureau Chief
 Hazardous Waste Bureau
 New Mexico Environment Department
 2905 Rodeo Park Drive East, Building 1
 Santa Fe, NM 87505-6303

Subject: Submittal of the Fact Sheets for the Combined Groundwater Monitoring Well R-67 and Corehole CrCH-6

Dear Mr. Kieling:

Enclosed please find two hard copies with electronic files of the fact sheets for combined groundwater monitoring well R-67 and corehole CrCH-6. This well was New Mexico Environment Department- (NMED-) complete on September 21, 2015. The monitoring well was installed per the NMED approval with modifications of the work plan for combined groundwater monitoring well R-67 and CrCH-6. Core was collected from several intervals in this borehole as it was being drilled for completion of monitoring well R-67. These intervals are depicted on the fact sheets.

If you have any questions, please contact Stephani Swickley at (505) 606-1628 (sfuller@lanl.gov) or Cheryl Rodriguez at (505) 665-5330 (cheryl.rodriguez@em.doe.gov).

Sincerely,

Bruce Robinson, Program Director
 Environmental Remediation Program
 Los Alamos National Laboratory

Sincerely,

Douglas E. Hintze, Manager
 Environmental Management
 Los Alamos Field Office

BR/DH/SS:sm

Enclosures: Two hard copies with electronic files – Fact Sheets for the Combined Groundwater Monitoring Well R-67 and Corehole CrCH-6

Cy: (w/enc.)
emla.docs@em.doe.gov
Cheryl Rodriguez, DOE-EM-LA, MS A316
Stephani Swickley, ADEP ER Program, MS M992
Public Reading Room (EPRR)
ADESH Records

Cy: (Letter and CD and/or DVD)
Laurie King, EPA Region 6, Dallas, TX
Raymond Martinez, San Ildefonso Pueblo
Dino Chavarria, Santa Clara Pueblo
Steve Yanicak, NMED-DOE-OB, MS M894
Andy Crowder, TPMC
PRS Database

Cy: (w/o enc./date-stamped letter emailed)
lasomailbox@nnsa.doe.gov
Kimberly Davis Lebak, DOE-NA-LA
Peter Maggiore, DOE-NA-LA
Annette Russell, DOE-EM-LA
Hai Shen, DOE-EM-LA
David Rhodes, DOE-EM-LA
Bruce Robinson, ADEP ER Program
Randy Erickson, ADEP
Jocelyn Buckley, ADESH-ENV-CP
Mike Saladen, ADESH-ENV-CP
Alison Dorries, ADESH-ENV-DO
Michael Brandt, ADESH
Amy De Palma, PADOPS
Craig Leasure, PADOPS

TOTAL LENGTH
OF CASING AND SCREEN (FT) 1275.8

DEPTH TO WATER
FOLLOWING INSTALLATION (FT BGS) 1226.7 (10/7/15)

DIAMETER OF BOREHOLE
16.00 (IN) FROM 0 TO 415 (FT BGS)
15.00 (IN) FROM 415 TO 555 (FT BGS)
12.75 (IN) FROM 555 TO 999 (FT BGS)
10.75 (IN) FROM 999 TO 1324.6 (FT BGS)

SURFACE COMPLETION

PROTECTIVE CASING
TYPE STEEL SIZE (IN) 16
PROTECTIVE POSTS INSTALLED
SURFACE SEAL AND PAD
CHECK FOR SETTLEMENT
PAD MATERIAL
REINFORCED
PAD DIMENSIONS (FT) 10 (L) 10 (W) 0.8 (H)

SURFACE SEAL 3.0 TO 60.2 (FT BGS)

HYDRATED BENTONITE CHIP SEAL 60.2 TO 1235.9(FT BGS)

FINE SAND COLLAR 1235.9 TO 1238.4 (FT BGS)

FILTER PACK 1238.4 TO 1268.7 (FT BGS)

SCREENED INTERVAL 1242.6 TO 1263.0 (FT BGS)

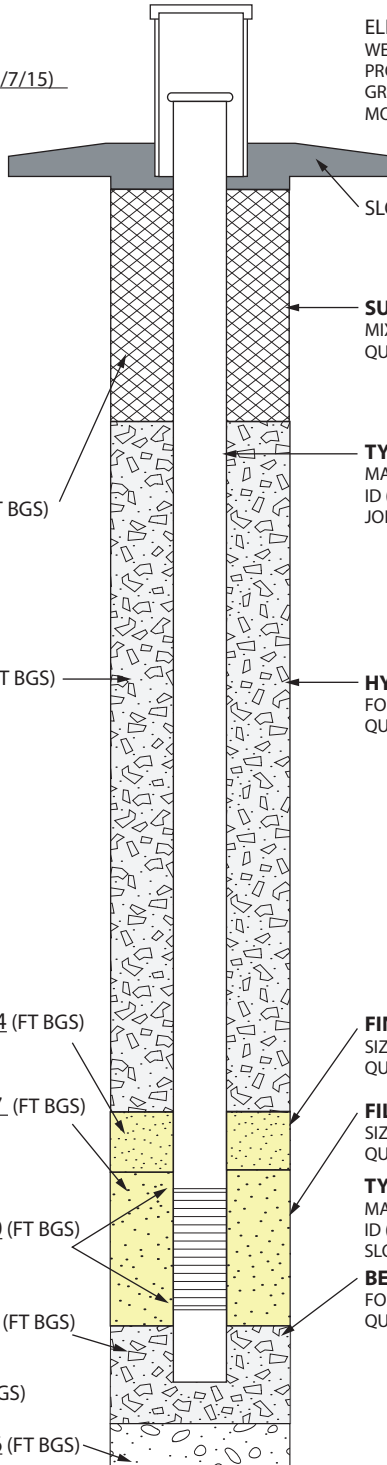
BENTONITE SEAL 1268.7 TO 1321.7 (FT BGS)

BOTTOM OF CASING 1273.3 (FT BGS)

SLOUGH 1321.7 TO 1324.6 (FT BGS)

BOTTOM OF BORING 1324.6

LOCKING COVER



ELEVATIONS (FT AMSL)
WELL CAP TBD
PROTECTIVE CASING TBD
GROUND SURFACE TBD
MONUMENT MARKER TBD

SLOPED CONCRETE PAD/SURFACE

SURFACE SEAL
MIX (WT%) CEMENT 100 BENTONITE 0
QUANTITY USED 101.6 CALCULATED 70.4 FT³

TYPE OF CASING
MATERIAL STAINLESS-STEEL
ID (IN) 5.00 OD (IN) 5.56 (5⁹/₁₆)
JOINT TYPE BEVELED/WELDED

HYDRATED BENTONITE SEAL
FORM CHIP
QUANTITY USED 1131.9 CALCULATED 1012.07 FT³

FINE SAND COLLAR
SIZE/TYPE 20/40 SILICA
QUANTITY USED 1.0 CALCULATED 1.2 FT³

FILTER PACK SAND
SIZE/TYPE 10/20 SILICA
QUANTITY USED 22.5 CALCULATED 13.9 FT³

TYPE OF SCREEN
MATERIAL STAINLESS-STEEL
ID (IN) 5.00 OD (IN) 5.88 (5⁷/₈)
SLOT SIZE (IN) 0.040 JOINT TYPE BEVELED/WELDED

BENTONITE SEAL
FORM CHIP
QUANTITY USED 37.8 CALCULATED 32.4 FT³

STAINLESS-STEEL CENTRALIZERS
USED 4 AT 2.0 ft ABOVE AND
BELOW WELL SCREENS

WELL COMPLETION BEGAN
DATE 8/27/15 TIME 0850
WELL COMPLETION FINISHED
DATE 9/21/15 TIME 1745



Drafted By: TPMC
Project Number: 86318

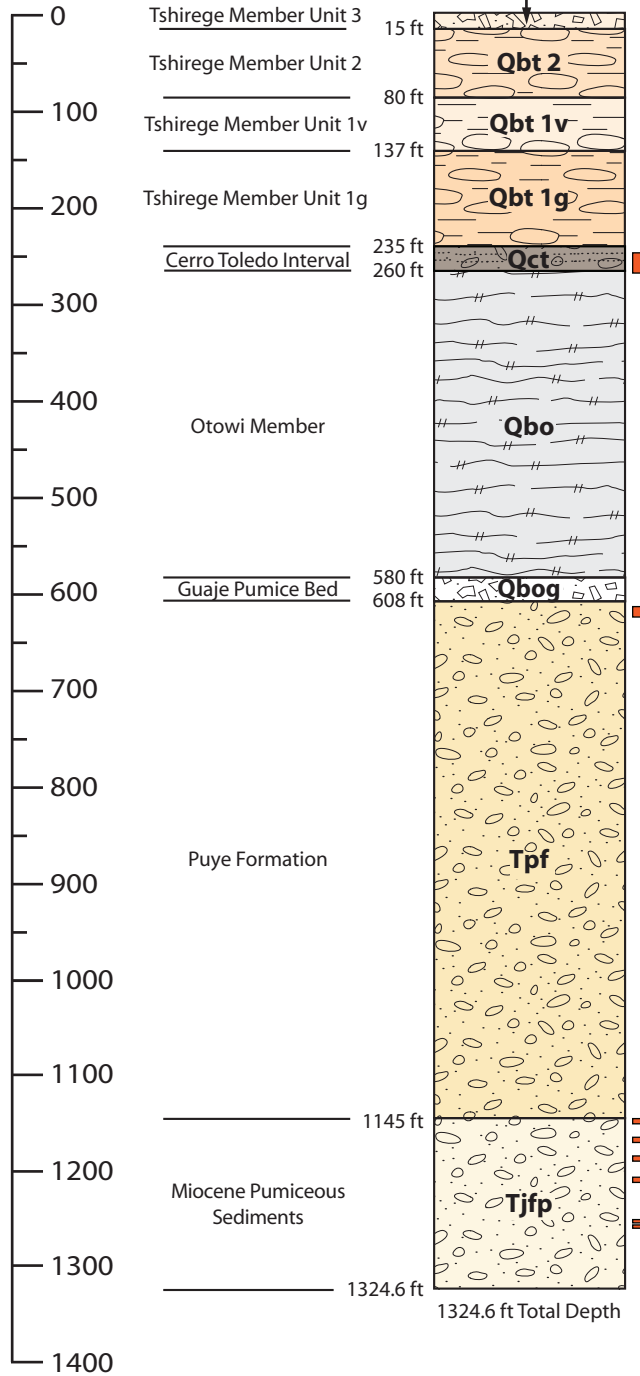
Date: October 8, 2015
File Name: R-67_WellAsBuiltFactSheet

**As-Built Well Construction for Combined
Groundwater Monitoring Well R-67 and Corehole CRCh-6**
Technical Area 61 (TA-61)
Los Alamos National Laboratory
Los Alamos, New Mexico

Fact Sheet
R-67

NOT TO SCALE

DEPTH (FT BGS)



DRILLING INFORMATION

DRILLING COMPANY/PERSONNEL:

Boart Longyear
D. Sandy, D. Tucker, R. Ostler

DRILL RIG: Foremost DR-24HD

DRILLING METHOD:

DUAL ROTARY AIR ROTARY

DRILLING FLUID TYPE:

0-1115 ft bgs 1115-1324.6 ft bgs

WATER WATER
 AIR AIR
 QUIK FOAM FOAMING AGENT

DRILLING START/FINISH:

DATE: 07/17/2015 TIME: 1435
DATE: 08/16/2015 TIME: 0413

CORING INTERVALS:

241.0 - 261.3 FT BGS
610.9 - 620.1 FT BGS
1145.4 - 1150.4 FT BGS
1165.8 - 1170.4 FT BGS
1184.7 - 1188.9 FT BGS
1205.4 - 1209.2 FT BGS
1251.2 - 1253.7 FT BGS
1255.6 - 1260.7 FT BGS

▼ 1226.4 ft bgs (08/18/15)
(pre well installation)

Coring Interval:

		Borehole Stratigraphy for Combined Groundwater Monitoring Well R-67 and Corehole CrCH-6 Technical Area 61 (TA-61) Los Alamos National Laboratory Los Alamos, New Mexico	Fact Sheet
Drafted By: TPMC Project Number: 86318	Date: October 8, 2015 Filename: R67_Lithology_FactSheet		R-67 NOT TO SCALE