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Date: JUN 14 2016
Refer To: ADESH-16-084
LAUR: 16-23886
Locates Action No.: n/a

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 Injection Well CrIN-2

Dear Mr. Kieling:

Enclosed please find two hard copies with electronic files of the Fact Sheets for injection well CrIN-2. Injection Well CrIN-2 was completed on May 20, 2016. Injection well CrIN-2 was installed under the December 2015 Drilling Work Plan for Chromium Plume Control Interim Measure and Plume Center Characterization Injection Wells CrIN-1 through CrIN-6, approved with modifications by the New Mexico Environment Department (NMED) January 22, 2016. The well completion report for injection wells CrIN-1 through 6 will be submitted 150 days after the last well is NMED-complete.

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,

David S. Rhodes, Director
Office of Quality and Regulatory Compliance
Environmental Management
Los Alamos Field Office



BR/DR/SS:sm

Enclosures: Two hard copies with electronic files – Fact Sheets for CrIN-2 (EP2016-0088)

Cy: (w/enc.)
Cheryl Rodriguez, DOE-EM-LA
Stephani Swickley, ADEM ER Program

Cy: (w/electronic enc.)
Laurie King, EPA Region 6, Dallas, TX
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Dino Chavarria, Santa Clara Pueblo
Steve Yanicak, NMED-DOE-OB, MS M894
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Steve White, ADEP ER Program (w/ MS Word files on CD)
Ted Ball, ADEP ER Program
Danny Katzman, ADEP ER Program
Public Reading Room (EPRR)
ADESH Records
PRS Database

Cy: (w/o enc./date-stamped letter emailed)
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Peter Maggiore, DOE-NA-LA
Kimberly Davis Lebak, DOE-NA-LA
David Rhodes, DOE-EM-LA
Bruce Robinson, ADEM ER Program
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Jocelyn Buckley, ADESH-EPC-CP
Mike Saladen, ADESH-EPC-CP
John McCann, ADESH-EPC-DO
Michael Brandt, ADESH
William Mairson, PADOPS
Craig Leasure, PADOPS

TOTAL LENGTH
OF CASING AND SCREEN (FT) 977.4
DEPTH TO WATER
FOLLOWING INSTALLATION (FT BGS) 899.1 (05/27/16)

DIAMETER OF BOREHOLE
24.00 (IN) FROM 0 TO 63.5 (FT BGS)
18.00 (IN) FROM 60 TO 294 (FT BGS)
17.00 (IN) FROM 294 TO 723 (FT BGS)
15.00 (IN) FROM 723 TO 1062 (FT BGS)

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

SURFACE SEAL 10.0 TO 64.0 (FT BGS)

← **24-IN CSG** 0 TO 49 (FT BGS)
← **20-IN CSG** 0 TO 60 (FT BGS)

SURFACE SEAL
MIX (WT%) PORTLAND CEMENT 100
QUANTITY USED 86.7 FT³ CALC 90.4 FT³

BENTONITE SEAL 64.0 TO 802.0 (FT BGS)

TYPE OF CASING
MATERIAL PASSIVATED A304 STAINLESS STEEL
ID (IN) 8.00 OD (IN) 8.625 (8%)
JOINT TYPE WELDED

HYDRATED BENTONITE SEAL
FORM 3/8-IN BENTONITE CHIPS
QUANTITY USED 928.6 FT³ CALC 881.4 FT³

FINE SAND COLLAR 802.0 TO 804.0 (FT BGS)

TYPE OF SCREEN(S)
MATERIAL A304 STAINLESS STEEL
ID (IN) 8.00 OD (IN) 8.625
SLOT SIZE (IN) 0.040
JOINT TYPE WELDED

FINE SAND COLLAR
SIZE/TYPE 20/40 SILICA
QUANTITY USED 3.0 FT³ CALC 1.7 FT³

FILTER PACK 804.0 TO 960.5 (FT BGS)

FILTER PACK SAND
SIZE/TYPE 10/20 SILICA
QUANTITY USED 277.0 FT³ CALC 128.5 FT³

SCREENED INTERVAL 902.5 TO 952.5 (FT BGS)

HYDRATED BENTONITE BACKFILL
MATERIAL 3/8-IN BENTONITE CHIPS
QUANTITY USED 100.5 FT³ CALC 75.1 FT³

BOTTOM OF CASING 974.0 (FT BGS)

BENTONITE 960.5 TO 1052.0 (FT BGS)

SLOUGH 1052.0 TO 1062.0 (FT BGS)

BOTTOM OF BORING 1062.0 (FT BGS)

← **15-IN CSG AND SHOE** 1049 TO 1062 (FT BGS)

STAINLESS-STEEL CENTRALIZERS
USED 4 ea. AT 5 FT
ABOVE AND BELOW
WELL SCREEN

WELL COMPLETION BEGAN
DATE 05/12/16 TIME 0700h
WELL COMPLETION FINISHED
DATE 05/20/16 TIME 1330h

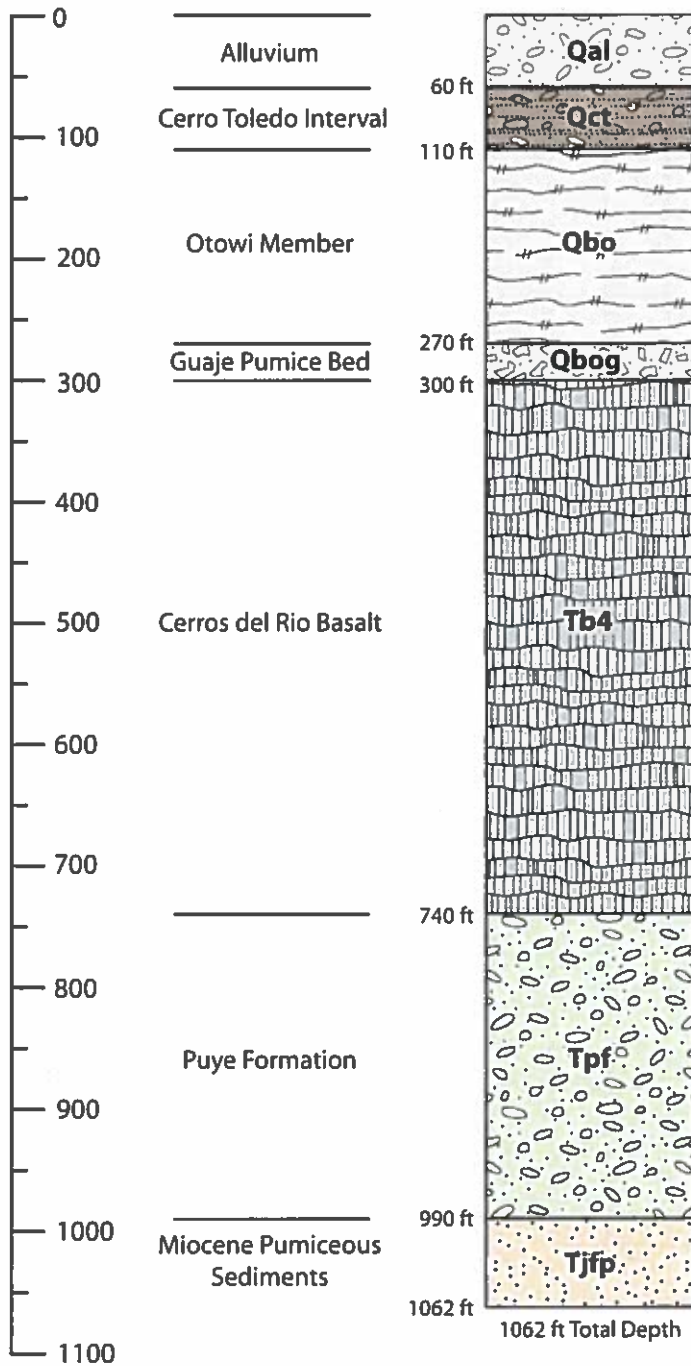


Prepared by: PTM
Date: June 9, 2016
File Name: CrIN-2_AsBuiltDiagram_FactSheet

Well CrIN-2 As-Built Well Construction Diagram
Technical Area 05 (TA-05)
Los Alamos National Laboratory
Los Alamos, New Mexico

Fact Sheet
NOT TO SCALE

DEPTH (FT BGS)



DRILLING INFORMATION

DRILLING COMPANY/PERSONNEL:

Yellow Jacket Drilling
A. Lamon, S. Jorge, E. Johnson

DRILL RIG:

Foremost DR-24HD

DRILLING METHOD:

0-1062 ft bgs: DUAL ROTARY WITH CASING
ADVANCE USING AIR, WATER, AND FOAM

DRILLING FLUID TYPE:

0-1062 ft bgs
AIR, WATER, AQF-2 FOAMING AGENT

DRILLING START/FINISH:

DATE: 04/16/16
DATE: 05/10/16

▼ 899.0 ft bgs (05/10/16)
(prior to well installation)



Prepared by: PTM
Date: June 3, 2016
File Name: CrIN-2_Lithology_FactSheet

Well Summary Data Sheet
CrIN-2 Borehole Stratigraphy
Technical Area 05 (TA-05)
Los Alamos National Laboratory
Los Alamos, New Mexico

Fact Sheet
NOT TO SCALE