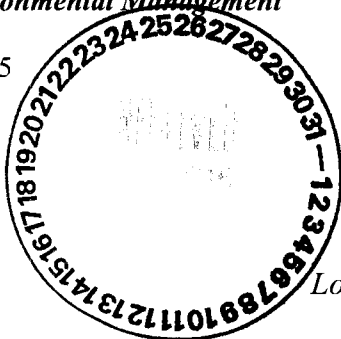


Associate Directorate for Environmental Management
P.O. Box 1663, MS M992
Los Alamos, New Mexico 87545
(505) 606-2337



Environmental Management
1900 Diamond Drive, MS M984
Los Alamos, New Mexico 87544
(505) 665-5658/FAX (505) 606-2132

Date: **SEP 26 2016**
Refer To: ADEM-16-5270
LAUR: 16-27082

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: Fact Sheets for CrIN-3

Dear Mr. Kieling:

Enclosed please find two hard copies with electronic files of the fact sheets for injection well CrIN-3. Injection well CrIN-3 was completed on September 1, 2016. CrIN-3 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, which was approved with modifications by the New Mexico Environment Department (NMED) on 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-3 (EP2016-0126)

Cy: (w/enc.)

Cheryl Rodriguez, DOE-EM-LA

Stephani Swickley, ADEM ER Program

Cy: (w/electronic enc.)

Laurie King, EPA Region 6, Dallas, TX

Raymond Martinez, San Ildefonso Pueblo

Dino Chavarria, Santa Clara Pueblo

Steve Yanicak, NMED-DOE-OB, MS M894

emla.docs@em.doe.gov

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)

lasomailbox@nnsa.doe.gov

Peter Maggiore, DOE-NA-LA

Kimberly Davis Lebak, DOE-NA-LA

David Rhodes, DOE-EM-LA

Bruce Robinson, ADEM ER Program

Randy Erickson, ADEM

Jocelyn Buckley, ADESH-EPC-CP

Mike Saladen, ADESH-EPC-CP

John Bretzke, ADESH-EPC-DO

Michael Brandt, ADESH

William Mairson, PADOPS

Craig Leasure, PADOPS

TOTAL LENGTH
OF CASING AND SCREEN (FT) 1004.3

DEPTH TO WATER
FOLLOWING INSTALLATION (FT) 928.8 (09/07/16)

DIAMETER OF BOREHOLE
20.00 (IN) FROM 0 TO 49.3 (FT)
18.00 (IN) FROM 49.3 TO 355.4 (FT)
16.00 (IN) FROM 355.4 TO 763.5 (FT)
15.00 (IN) FROM 763.5 TO 1021.1 (FT)

SURFACE SEAL 8.8 TO 59.9 (FT)

BENTONITE SEAL 59.9 TO 828.0 (FT)

16-IN CSG AND SHOE 758.0 TO 763.5 (FT)

FINE SAND COLLAR 828.0 TO 830.4 (FT)

FILTER PACK 830.4 TO 984.9 (FT)

SCREENED INTERVAL 930.4 TO 980.4 (FT)

BENTONITE 984.9 TO 1000.4 (FT)

BOTTOM OF CASING 1001.9 (FT)

SLOUGH 1000.4 TO 1021.1 (FT)

BOTTOM OF BORING 1021.1 (FT)

ANGLED WELL DRILLED
17° FROM VERTICAL

FEET = LINEAR FEET

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

SURFACE SEAL

MIX (WT%) PORTLAND CEMENT 100
QUANTITY USED 110.0 FT³ CALC 86.3 FT³

TYPE OF CASING

MATERIAL PASSIVATED A304 STAINLESS STEEL
ID (IN) 8.00 OD (IN) 8.625 (8 $\frac{3}{4}$)
JOINT TYPE WELDED

HYDRATED BENTONITE SEAL

TYPE $\frac{3}{8}$ -IN BENTONITE CHIPS
QUANTITY USED 1002.4 FT³ CALC 859 FT³

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 1.5 FT³ CALC 2.0 FT³

FILTER PACK SAND

SIZE/TYPE 10/20 SILICA
QUANTITY USED 145.0 FT³ CALC 126.8 FT³

HYDRATED BENTONITE BACKFILL

TYPE $\frac{3}{8}$ -IN BENTONITE CHIPS
QUANTITY USED 12.6 FT³ CALC 12.7 FT³

14-IN CSG AND SHOE
1005.9 TO 1009.8 (FT)

STAINLESS-STEEL CENTRALIZERS

USED 4 ea. EVERY 60 FT ON BLANK CASING
USED 4 ea. at 5 FT
ABOVE AND BELOW WELL SCREEN

WELL COMPLETION BEGAN

DATE 08/18/16 TIME 1045h
WELL COMPLETION FINISHED
DATE 09/01/16 TIME 0300h



Prepared by: BMD
Date: September 2016
File Name: CrIN-3_AsBuiltDiagram_FactSheet

Well CrIN-3 As-Built Well Construction Diagram

Technical Area 05 (TA-05)
Los Alamos National Laboratory
Los Alamos, New Mexico

**Fact
Sheet**

NOT TO SCALE

