May 25, 2018
Cardno 01361204.W01

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Mr. Bradford Billings
State of New Mexico Oil Conservation Division
1220 South Saint Francis Drive
Santa Fe, New Mexico 87505

SUBJECT **Work Plan for the Installation of Six Off-Site Groundwater Monitoring Wells**
Gladiola Station
Lea County, New Mexico
OCD No. AP038

Mr. Billings:

At the request of ExxonMobil Environmental Services Company (EMES) on behalf of ExxonMobil US Production Company, Cardno is submitting this *Work Plan for the Installation of Six Off-Site Groundwater Monitoring Wells* for the subject site. Cardno has prepared this work plan in response to a May 9, 2018 email from the New Mexico Oil Conservation Division (NMOCD). In the email, the NMOCD directed EMES to continue with additional groundwater assessment of the site in order to have a full understanding of the lateral extent of NAPL in groundwater at the site.

Please call the undersigned at 949 457 8941 if you have questions.

Sincerely,

David M. Purdy
Senior Project Manager
for Cardno
Direct Line 949 457 8941
Email: dave.purdy@cardno.com

cc: Ms. Marla D. Madden, EMES

Work Plan for the Installation of Six Off-Site Groundwater Monitoring Wells

Gladiola Station

Lea County, New Mexico
OCD No. AP038

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Prepared for
ExxonMobil Environmental Services Company

May 25, 2018

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David M. Purdy
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for Cardno
Direct Line 949 457 8941
Email: dave.purdy@cardno.com

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Plates

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1 Introduction

At the request of ExxonMobil Environmental Services Company (EMES), on behalf ExxonMobil US Production Company (ExxonMobil), Cardno prepared this work plan for the site. The purpose of the work is to assess the lateral extent of constituents of concern beneath and surrounding the site, as requested by the New Mexico Oil Conservation Division (NMOCD) in electronic correspondence dated May 9, 2018 (Appendix A).

2 Site Description

Gladiola Station is located in northeastern Lea County, New Mexico (Plate 1). The site is located at latitude 33.300745 degrees (º) and longitude -103.111117º and consists of 0.54 acre of land (Plate 2). The site was operated as a crude oil pipeline pumping station under ExxonMobil Pipeline Company until it was purchased by Trojan Pipeline L.P. in February 2004. Trojan changed its name to Centurion Pipeline L.P. (Centurion) in July 2004, and the site is currently operated by Centurion (AECOM, 2014a).

3 Geology and Hydrogeology

The site is located in northeastern Lea County, New Mexico, within the Llano Estacado (staked plains) physiographic province. Surface soils at the site are Quaternary windblown (eolian) sediments comprised of sands, silts and clays. This sediment can accumulate to a thickness of 20 feet in this portion of Lea County. The Quaternary sediment unconformably overlies the Tertiary Ogallala formation (AECOM, 2014a).

The Ogallala formation is comprised of variably cemented calcic sands, silts, caliche, gravel and some clays, and ranges in thickness from 50 to 300 feet. Groundwater in northern Lea County is primarily produced from the Ogallala formation. The saturated thickness ranges from 25 to 200 feet, with the depth to groundwater ranging from less than 30 to approximately 260 feet. The Ogallala formation unconformably overlies the Triassic Dockum group. The Dockum group consists of red shale and sandstone and is commonly referred to as red beds. The red beds can exceed 1,000 feet in thickness in this region and may produce small amounts of water at the bottom of the formation. Water wells in the vicinity of the site have a total depth of approximately 100 feet bgs, with depth to groundwater ranging from 35 to 70 feet bgs (AECOM, 2014a).

The surface soils encountered at the site are silty clays approximately 2 to 3 feet thick. This surface soil is consistent with the surface soil description (Quaternary sediment) for this physiographic province. The next three soil types encountered at the site are consistent with the description of the Ogallala formation (caliche, limestone and silty sands). The Dockum group was not encountered at the site (AECOM, 2014a).

The first occurrence of groundwater encountered at the site is found within the Ogallala formation and would likely be classified as the Ogallala Aquifer. The characteristics of the Ogallala Aquifer as described in the scientific literature match the characteristics of subsurface conditions beneath the site (produces small amounts of good-quality water). The D beneath the site has ranged historically from approximately 29 to 43 feet bgs (AECOM, 2014a).

4 Regulatory Framework and Site Classification

The NMOCD has regulatory jurisdiction over oil and gas production operations including crude-oil pipeline releases and closure activities in the State of New Mexico. Work at the site is conducted in accordance with a “revised

Stage 1 Abatement Plan," submitted to the NMOCD on March 2, 2006. The NMOCD requires that soil affected by a crude oil release be remediated in such a manner that the potential for future effects to groundwater or the environment are minimized. The NMOCD hydrocarbon recommended remediation action levels (RRALs) for soil are determined by ranking criteria on a site-by-site basis, outlined in the NMOCD *Guidelines for Remediation of Spills, Leaks, and Releases*, dated August 13, 1993 (NMOCD, 1993). The ranking criteria are based on three site characteristics: depth to groundwater, wellhead protection, and distance to surface water (AECOM, 2014a).

The NMOCD guidelines require groundwater to be analyzed for potential constituents of concern as defined by New Mexico Water Quality Control Commission (NMWQCC) regulatory limits. Human health standards for groundwater with a total dissolved solids (TDS) concentration of less than 10,000 mg/L can be found in New Mexico Administrative Code (NMAC) 20.6.2.3103, Sections A and B (AECOM, 2014a).

A water well search was conducted on May 28, 2008. According to the New Mexico Office of the State Engineer Water Administration Technical Engineering Resource System database, 18 wells are located within approximately 1 mile of the site. Three of those wells are within 2,000 feet of the site. Two were natural resource exploratory wells (likely petroleum exploration), and one was installed as a livestock watering well. According to the Water Administration Technical Engineering Resource System database, no wells are located within 1,000 feet of the site (AECOM, 2014a).

On March 13 2009 and April 15, 2009, Kleinfelder West, Inc. (Kleinfelder) contacted an adjacent property owner, Mr. Tommy Burrus, to obtain information regarding water well locations and usage (AECOM, 2014a). According to Mr. Burrus, water supply wells are located as indicated in the following table.

Location	Usage	Owner
Approximately 0.5 mile northeast	Livestock watering well	Tommy Burrus
Between approximately 0.5 and 0.75 mile southeast of the site	Livestock watering well	Tommy Burrus
Approximately 0.4 mile east of the site	Domestic well at an abandoned ranch (no longer in use)	Tommy Burrus
Between approximately 0.5 and 0.75 mile northwest of the site	Livestock watering well	Clinton Houston

Data collected during groundwater monitoring and sampling events indicates that the historic DTW at the site has ranged from approximately 29 to 43 feet bgs. The site is not within 1,000 feet of a wellhead protection area, and surface water is more than 1,000 feet from the site, giving the site a ranking criteria score of 20 as summarized in the following table (AECOM, 2014a).

Characterization	Selection	Score
Depth to Groundwater	Less than 50 feet	20
Wellhead Protection Area	Greater than 1,000 feet	0
Distance to Surface Water	Greater than 1,000 feet	0
Total Score	NA	20

Based on a total score of 20, the following soil hydrocarbon RRALs apply to this site:

Constituent of Concern	RRALs (mg/kg)
Benzene	10
Total BTEX	50
TPH	100

Groundwater samples collected as part of assessment activities are evaluated using NMWQCC regulatory limits for the analytical parameters listed in the following table.

Constituent of Concern	Concentration (mg/L)
Benzene	0.01
Toluene	0.75
Ethylbenzene	0.75
Total Xylenes	0.62
Benzo(a)pyrene	0.0007
Total Naphthalene[1]	0.03
Arsenic	0.1
Barium	1.0
Cadmium	0.01
Chromium	0.05
Lead	0.05
Mercury	0.002
Selenium	0.05
Silver	0.05
Chloride	250.0
Sulfate	600.0
TDS	1,000.0

[1]*Total Naphthalene = naphthalene + 1-methylnaphthalene + 2-methylnaphthalene*

5 Previous Work

Soil and groundwater investigations have been conducted at the site since 2002. Previous work has included the drilling of soil borings, installation of wells, soil excavation, and NAPL bailing (Plate 2). For detailed information regarding these investigations, refer to the documents listed in the reference section. Cumulative groundwater and soil analytical results are summarized in Tables 1 through 8.

5.1 Pumping Station Activities

November 18, 2002. A crude oil release of approximately 15 barrels occurred as a result of a leak from the former western sump overflow/bleeder valve, located to the northeast of well MW-1. Approximately 5 barrels of crude oil were recovered from the release (ExxonMobil, 2002).

May 21, 2007. Centurion reported a crude oil release resulting from a strainer valve failure, which caused the eastern sump, located to the north of well MW-2, to overfill (AECOM, 2014a).

March 2009. In March 2009, NAPL was observed in off-site groundwater monitoring well MW-15 at a thickness of 0.16 foot. On October 11, 2011, NAPL thickness had increased in well MW-15 to 2.24 feet. In addition, NAPL was observed in well MW-13, located northwest of MW-15, at a thickness of 0.95 foot. By October 2012, NAPL thickness had increased in well MW-15 to 3.35 feet and was first observed in off-site groundwater monitoring well MW-24 at a thickness of 4.35 feet. Based on the levels of NAPL in wells MW-15 and MW-24, ExxonMobil theroized that observation of NAPL in wells MW-13, MW-15, and MW-24 could be indicative of a third release of crude oil.

5.2 Site Assessment Activities

2004. BNC Environmental Services, Inc. conducted soil and groundwater activities, which included the installation of monitoring wells MW-1 through MW-3. NAPL was encountered in the wells. A water well search was also conducted, which did not identify water wells located on or immediately adjacent to the site (BNC, 2004).

2006. Conestoga-Rovers & Associates (CRA) advanced soil borings SB-9 and SB-11, installed groundwater monitoring wells MW-4 through MW-10, and conducted a site-wide groundwater monitoring and sampling event at the site. NAPL was encountered in wells MW-1, MW-2, and MW-3 (AECOM, 2014a).

April 2008. Kleinfelder oversaw the installation of monitoring wells MW-11 through MW-16 (Kleinfelder, 2008).

August 2009. Kleinfelder oversaw the installation of monitoring wells MW-17 through MW-21 (AECOM, 2014a).

October 26-28, 2011. Groundwater & Environmental Services, Inc. (GES) advanced soil borings SB-1 through SB-7 at the site and installed temporary groundwater monitoring wells in the borings. GES then gauged and sampled the temporary monitoring wells. Measurable NAPL was not encountered in the wells (AECOM, 2014a).

December 13-15, 2011. GES installed permanent monitoring wells MW-23 through MW-26 (AECOM, 2014a).

5.3 Remediation Activities

August 2003. E. D. Walton conducted initial remedial excavation activities and B&H Maintenance and Construction conducted a soil boring investigation (B&H, 2003).

May-June 2007. Soil remediation activities, including excavation, were conducted at the site (AECOM, 2014a).

April 2, 2009. NOVA Safety and Environment, on behalf of Centurion, recommended to the NMOCD no further action for the May 2007 release (AECOM, 2014a).

April 28-29, 2016. Cardno conducted a NAPL baildown test on wells MW-13, MW-14, and MW-24. Cardno also bailed NAPL from wells MW-4, MW-5, MW-12, MW-15, MW-16, MW-18, MW-20, and MW-25 using disposable Teflon® bailers. Approximately 6 gallons of NAPL were removed. Samples of the NAPL from wells MW-13, MW-14, and MW-24 were collected for laboratory analysis (Cardno, 2016).

October 26, 2016. Cardno conducted a NAPL pumping test to assess whether sustained flow of NAPL is possible by pumping. To begin the test, Cardno adjusted the pump to a rate of 0.1 gpm to conduct a step test to gradually increase the flow rate and determine the appropriate flow rate for a constant rate pumping test; however, Cardno was not able to sustain the desired flow rates during the step test and the constant rate test, therefore, was not performed. Approximately 100 gallons of LNAPL mixed with water was removed (Cardno, 2017a).

May 24-25, 2017. Cardno conducted a NAPL recovery test using a Xitech Instruments, Inc. ADJ210 High Performance Smart Skimmer® pump equipped with an electronic controller to assess whether sustained flow of NAPL is possible by pumping. During the test, approximately 10 to 15 gallons of NAPL were removed over a 24 hour period (Cardno, 2017b).

5.4 Groundwater Monitoring Activities

2006. CRA conducted site-wide groundwater monitoring and sampling activities. NAPL was encountered in wells MW-1 trough MW-3 (AECOM, 2014a).

April 2008-February 2009. Kleinfelder conducted groundwater monitoring activities at the site. The groundwater monitoring data indicated that hydrocarbons related to the Centurion May 2007 release were still present on site (AECOM, 2014a).

October 12-13, 2011. GES performed groundwater monitoring and sampling activities for wells MW-1 through MW-22. Monitoring wells with NAPL were gauged and bailed (AECOM, 2014a).

October 28, 2011. GES gauged and sampled temporary monitoring wells SB-1 through SB-7. No measureable NAPL was encountered in the wells (AECOM, 2014b).

February 22, 2012. GES performed groundwater monitoring and sampling activities for wells MW-1 through MW-26. Monitoring wells with NAPL were gauged and bailed (AECOM, 2014a).

July 17, 2012. GES performed groundwater monitoring and sampling activities at the site. Monitoring wells with NAPL were gauged and bailed. NAPL samples from wells MW-2 and MW-13 were collected for fingerprint analysis. Borbas Surveying and Mapping LLC surveyed the 26 monitoring wells and select features on the site (AECOM, 2014a).

October 3, 2012. GES performed groundwater monitoring and sampling activities at the site. Monitoring wells with NAPL were gauged and bailed. NAPL samples were collected from wells MW-2, MW-13, MW-18, and MW-26 for fingerprint analysis (AECOM, 2014a).

May 13-16, 2013. AECOM conducted a groundwater monitoring and sampling event at the site, including the removal of bailed NAPL. Approximately 17 gallons of NAPL were recovered from affected monitoring wells. Monitoring well MW-8 was not found and was presumed to be destroyed. Large pieces of concrete were found in the vicinity of the well (AECOM, 2014a).

January 27-29, 2014. AECOM conducted a groundwater monitoring and sampling event at the site, including the removal of bailed product. Approximately 20 gallons of NAPL were recovered from affected monitoring wells (AECOM, 2014a).

June 16-19, 2014. AECOM conducted a groundwater monitoring and sampling event at the site, including the removal of bailed NAPL. Approximately 25 gallons of NAPL were recovered from affected monitoring wells. Monitoring well MW-2 was found damaged and could not be gauged or sampled (AECOM, 2014a).

November 17-19, 2014. AECOM conducted a groundwater monitoring and sampling event at the site, including the removal of bailed NAPL. Approximately 25 gallons of NAPL were recovered from affected monitoring wells (AECOM, 2014b).

December 7-9, 2015. Cardno conducted a groundwater monitoring and sampling event at the site, including the removal of bailed NAPL. Approximately 30 gallons of NAPL were removed from affected monitoring wells (Cardno, 2015).

April 26-27, 2016. Cardno conducted a groundwater monitoring and sampling event at the site (Cardno, 2016).

April 28-29, 2016. Cardno conducted a NAPL baildown test on wells MW-13, MW-14, and MW-24. Cardno also bailed NAPL from wells MW-4, MW-5, MW-12, MW-15, MW-16, MW-18, MW-20, and MW-25 using disposable Teflon® bailers. Approximately 6 gallons of NAPL were removed. Samples of the NAPL from wells MW-13, MW-14, and MW-24 were collected for laboratory analysis (Cardno, 2016).

October 24-26, 2016. Cardno conducted a groundwater monitoring and sampling event (Cardno, 2017a).

May 24-25, 2017. Cardno conducted a groundwater monitoring and sampling event at the site (Cardno, 2017b).

November 28-29, 2017. Cardno conducted a groundwater monitoring and sampling event at the site bailed NAPL from wells MW5 (1 gallon), MW14 (3 gallons), MW24 (2 gallons), and MW25 (2 gallons). Approximately 30 gallons of NAPL were removed from affected monitoring wells (Cardno, 2018).

November 30, 2017. Cardno collected additional DTW and depth to product (DTP) measurements from select bailed wells (Cardno, 2018).

6 Proposed Work

Cardno proposes to drill and construct six off-site groundwater monitoring wells in the area surrounding the site to further evaluate the lateral extent of constituents of concern, particulary NAPL. The proposed well locations are illustrated on Plates 2 through 4 and in Appendix B. The well construction details are presented on Plate 5.

The procedures for drilling, decontamination, and well construction are described in the field protocol contained in Appendix C. The fieldwork will be conducted under the supervision of a professional geologist and in accordance with applicable regulatory guidelines.

6.1 Pre-Field Activities

Prior to the onset of drilling, a well installation permit will be obtained from the New Mexico Office of the State Engineer (NMOSE). Cardno personnel will visit the site to check for obstructions and to mark the proposed locations. New Mexico One Call will be contacted and affected utility companies will mark any underground lines. The NMOSE and NMED will be notified at least 48 hours prior to the onset of field activities. Before drilling, the selected well locations will be manually excavated in accordance with EMES' subsurface clearance protocol.

6.2 Sampling and Well Installation Activities

The proposed wells will be drilled using a 6-inch diameter air rotary drill rig operated by Yellow Jacket Drilling. During drilling activities,Cardno anticipates that the borings will be advanced at least 50 feet bgs, or approximately 10 feet below the depth to groundwater that is measured in the nearest groundwater monitoring well. The average depth to groundwater during the most recent sampling event was 39.43 feet bgs. For two of the soil borings, soil samples will be collected at 5-foot intervals to their respective total depths and from capillary fringe, for lithology. For the remaining soil borings, soil samples will be collected at capillary fringe and from their total depths.

Cardno will conduct field screening by heated head space in accordance with NMOCD guidelines using a PID calibrated to 100 ppmv hexane standard. The soil will be placed in a 1 quart, zip-lock bag half full of sample. The top of the bag will be sealed, leaving the remainder of the bag filled with air. After the soil has reached approximately 59 to 77 degrees Fahrenheit for approximately 5 to 10 minutes, the sample will be gently massaged to break up soil clods. One end of the bag will be carefully opened, the PID probe inserted and the bag around the probe re-sealed as much as possible to keep vapors from escaping. The highest measurement will be recorded on the bore log for that sample depth.

The wells will be constructed using 2-inch diameter, Schedule 40, PVC casings. Each well will be screened from 10 feet above to 10 feet below static groundwater, with an approximate screening from 30 to 50 feet bgs. The proposed groundwater wells will be surveyed and incorporated into the semi-annual groundwater monitoring and sampling program for the site.

6.3 Laboratory Analyses

The soil samples collected during this investigation will be submitted to Eurofins Laboratories, Inc. (Eurofins) under chain-of-custody protocol and analysed for TPH gasoline-range organics/diesel-range organics by EPA Method 8015M and for BTEX by EPA Method 8260B.

After the newly-installed wells have been developed, Cardno will sample the wells and analyze the groundwater samples for VOCs by EPA Method 8260B, PAHs by EPA Method 8270C, RCRA metals by EPA Method 6010B, mercury by EPA Method 7470A, chloride by Standard Method 4500 CI-E, sulfate by EPA Method D516-90, total alkalinity by Standard Method 2320B, and TDS by Standard Method 2540C. In addition, Cardno will submit groundwater samples collected from on-site wells MW-2, MW-3, and MW-7 for chloride by EPA Method 300.0.

6.4 Waste Management

Soil cuttings and decontamination water generated during drilling activities will be temporarily stored in DOT-approved, sealed 55-gallon drums. The soil and water will then be transported by Alamo1 to Sundance Services, Inc. in Eunice, New Mexico. Copies of waste bills of lading and/or manifests will be provided in the well installation report.

6.5 Site Safety Plan

The field work will be performed in accordance with a site-specific safety plan.

6.6 Report

After completion of the proposed field activities, a report summarizing field and laboratory procedures, boring logs, and laboratory reports weill be submitted to the NMOCD.

7 Contact Information

The responsible party contact is Ms. Marla D. Madden, EMES, 18685 Main Street, Suite 101 PMB 601, Huntington Beach, California, 92648-1719.

The consultant contact is Mr. David M. Purdy, Cardno, 20505 Crescent Bay Drive, Lake Forest, California, 92630.

The agency contact is Mr. Bradford Billings, NMOCD, State of New Mexico Oil Conservation Division, 1220 South Saint Francis Drive, Santa Fe, New Mexico 87505.

8 Limitations

For documents cited that were not generated by Cardno, the data taken from those documents is used “as is” and is assumed to be accurate. Cardno does not guarantee the accuracy of this data and makes no warranties for the referenced work performed nor the inferences or conclusions stated in these documents.

This document and the work performed have been undertaken in good faith, with due diligence and with the expertise, experience, capability and specialized knowledge necessary to perform the work in a good and workmanlike manner and within all accepted standards pertaining to providers of environmental services in New Mexico at the time of investigation. No soil engineering or geotechnical references are implied or should be inferred. The evaluation of the geologic conditions at the site for this investigation is made from a limited number of data points. Subsurface conditions may vary away from these data points.

9 References

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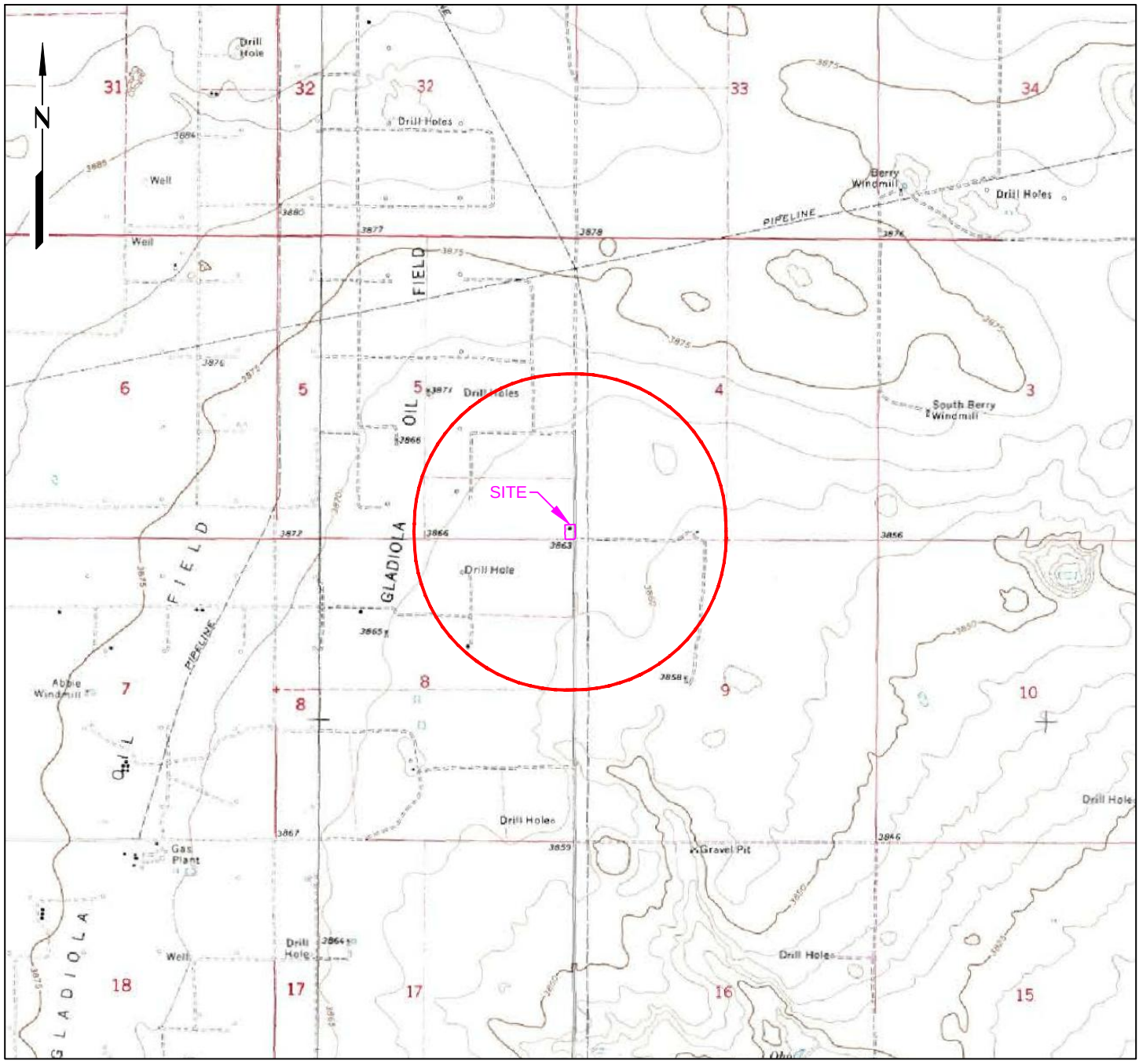
10 Acronym List

µg/L	Micrograms per liter
µg/m^3	Micrograms per cubic meter
µs	Microsiemens
1,2-DCA	1,2-dichloroethane
acfm	Actual cubic feet per minute
AS	Air sparge
AST	Aboveground storage tank
bgs	Below ground surface
BTEX	Benzene, toluene, ethylbenzene, and total xylenes
cfm	Cubic feet per minute
COC	Chain-of-Custody
CPT	Cone Penetration (Penetrometer) Test
DIPE	Di-isopropyl ether
DO	Dissolved oxygen
DOT	Department of Transportation
DPE	Dual-phase extraction
DTW	Depth to water
EDB	1,2-dibromoethane
EPA	Environmental Protection Agency
ESL	Environmental screening level
ETBE	Ethyl tertiary butyl ether
FID	Flame-ionization detector
fpm	Feet per minute
GAC	Granular activated carbon
gpd	Gallons per day
gpm	Gallons per minute
GWPTS	Groundwater pump and treat system
HIT	High-intensity targeted
HVOC	Halogenated volatile organic compound
J	Estimated value between MDL and PQL (RL)
LEL	Lower explosive limit
LPC	Liquid-phase carbon
LRP	Liquid-ring pump
LUFT	Leaking underground fuel tank
LUST	Leaking underground storage tank
MCL	Maximum contaminant level
MDL	Method detection limit
mg/kg	Milligrams per kilogram
mg/L	Milligrams per liter
mg/m^3	Milligrams per cubic meter
MPE	Multi-phase extraction
MRL	Method reporting limit
msl	Mean sea level
MTBE	Methyl tertiary butyl ether
MTCA	Model Toxics Control Act
NAI	Natural attenuation indicators
NAPL	Non-aqueous phase liquid
NEPA	National Environmental Policy Act
NGVD	National Geodetic Vertical Datum
NPDES	National Pollutant Discharge Elimination System
O&M	Operations and Maintenance
ORP	Oxidation-reduction potential
OSHA	Occupational Safety and Health Administration
OVA	Organic vapor analyzer
P&ID	Process and Instrumentation Diagram
PAH	Polycyclic aromatic (or polyaromatic) hydrocarbon
PCB	Polychlorinated biphenyl
PCE	Tetrachloroethene or perchloroethylene
PID	Photo-ionization detector
PLC	Programmable logic control
POTW	Publicly-owned treatment works
ppmv	Parts per million by volume
PQL	Practical quantitation limit
psi	Pounds per square inch
PVC	Polyvinyl chloride
QA/QC	Quality assurance/quality control
RBSL	Risk-based screening levels
RCRA	Resource Conservation and Recovery Act
RL	Reporting limit
scfm	Standard cubic feet per minute
SSTL	Site-specific target level
STLC	Soluble threshold limit concentration
SVE	Soil vapor extraction
SVOC	Semi-volatile organic compound
TAME	Tertiary amyl methyl ether
TBA	Tertiary butyl alcohol
TCE	Trichloroethene
TOC	Top of well casing elevation; datum is msl
TOG	Total oil and grease
TPH	Total petroleum hydrocarbons
TPHd	Total petroleum hydrocarbons as diesel
TPHg	Total petroleum hydrocarbons as gasoline
TPHmo	Total petroleum hydrocarbons as motor oil
TPHs	Total petroleum hydrocarbons as stoddard solvent
TRPH	Total recoverable petroleum hydrocarbons
UCL	Upper confidence level
USCS	Unified Soil Classification System
USGS	United States Geologic Survey
UST	Underground storage tank
VCP	Voluntary Cleanup Program
VOC	Volatile organic compound
VPC	Vapor-phase carbon



FN 3612.TOPO02

EXPLANATION

1/2-mile distance from property border

APPROXIMATE SCALE

0 0.5 1 MILES

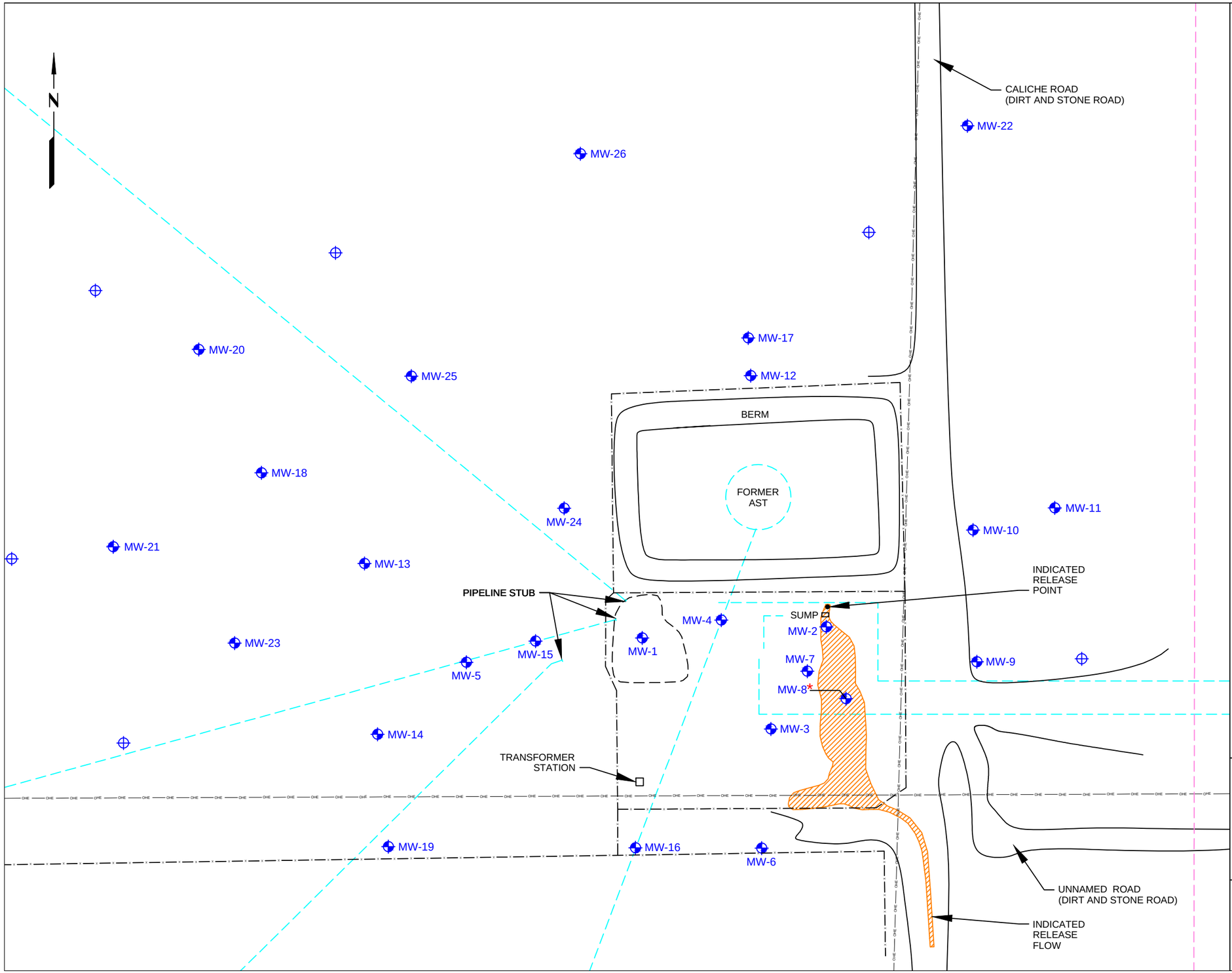
SOURCE: Modified from a map provided by MapPass

Cardno

SITE LOCATION MAP

GLADIOLA STATION
Lea County, New Mexico

PROJECT NO.
3612
PLATE
1



EXPLANATION

- MW-26 — Groundwater monitoring well
- Proposed groundwater monitoring well
- * — Well is presumed to have been destroyed
- Overhead electric line
- Fence
- Active pipeline
- Inactive pipeline
- Extent of May 2007 surface release
- Extent of 2004 remedial soil excavation

SOURCE:
Modified from maps provided by
Groundwater & Environmental Services, Inc.
ImagePatch.com © 2016 Microsoft Corporation
AECOM and Google Earth Pro

APPROXIMATE SCALE

0 60 120
FEET

FN 36120002

GENERALIZED SITE PLAN

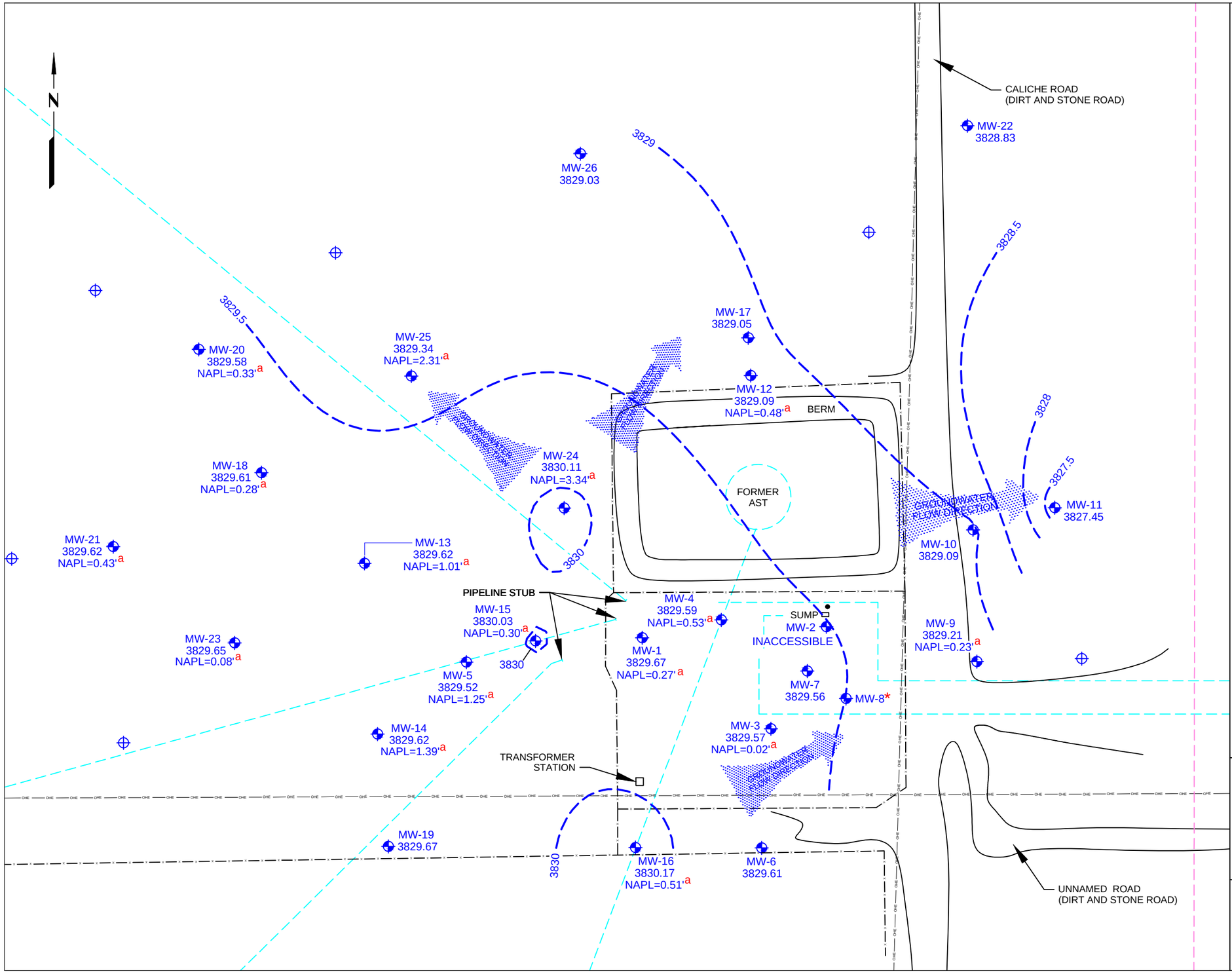
GLADIOLA STATION
Lea County, New Mexico

Cardno

PROJECT NO. 3612

PLATE 2

DATE: 05/25/18



EXPLANATION

MW-26	Groundwater monitoring well
	Proposed groundwater monitoring well
*	Well is presumed to have been destroyed
	Groundwater elevation in feet relative to mean sea level
a	Groundwater elevations are adjusted for NAPL thickness using a relative density of 0.83
NAPL=3.34'	Non-aqueous phase liquid thickness in feet
	Line of equal groundwater elevation
Note:	Well MW17 not used to generate elevation contours.
	Overhead electric line
	Fence
	Active pipeline
	Inactive pipeline

SOURCE:
Modified from maps provided by
Groundwater & Environmental Services, Inc.
ImagePatch.com © 2016 Microsoft Corporation
AECOM and Google Earth Pro

APPROXIMATE SCALE

0 60 120
FEET

FN 36120002

GROUNDWATER ELEVATION MAP 11/28-29/17

GLADIOLA STATION
Lea County, New Mexico

Cardno

PROJECT NO. 3612

PLATE 3

DATE: 05/25/18

N

MW-26

B	0.00061
T	<0.00050
E	0.00025 J
X	0.00046 J
T NAPH	0.00053

MW-17

B	0.17
T	<0.012
E	0.77
X	0.27
T NAPH	0.094

MW-22

B	<0.00050
T	<0.00050
E	<0.00050
X	<0.00050
T NAPH	<0.00020

CALICHE ROAD
(DIRT AND STONE ROAD)

MW-20
NAPL=0.33'

MW-25
NAPL=2.31'

MW-12
NAPL=0.48'

BERM

FORMER
AST

MW-18
NAPL=0.28'

MW-24
NAPL=3.34'

MW-11

B	<0.00050
T	<0.00050
E	<0.00050
X	0.00022 J
T NAPH	0.00252

MW-10

B	0.00051
T	<0.00050
E	<0.00050
X	<0.00050
T NAPH	<0.00019

MW-21
NAPL=0.43'

MW-13
NAPL=1.01'

PIPELINE STUB

SUMP

MW-4
NAPL=0.53'

MW-2
INACCESSIBLE

MW-15
NAPL=0.30'

MW-1
NAPL=0.27'

MW-23
NAPL=0.08'

MW-5
NAPL=1.25'

MW-9
NAPL=0.23'

MW-7
DRY

MW-8*

MW-3
NAPL=0.02'

MW-14
NAPL=1.39'

TRANSFORMER
STATION

MW-19

B	0.0010
T	<0.00050
E	0.00098
X	0.00053
T NAPH	0.002

MW-16
NAPL=0.51'

MW-6

B	<0.00050
T	<0.00050
E	<0.00050
X	<0.00050
T NAPH	<0.00019

UNNAMED ROAD
(DIRT AND STONE ROAD)

EXPLANATION

- MW-26 — Groundwater monitoring well
- Proposed groundwater monitoring well
- * — Well is presumed to have been destroyed
- NAPL=3.34' — Non-aqueous phase liquid thickness in feet
- < — Less than the stated laboratory reporting limit
- J — Estimated value between method detection limit & practical quantitation limit
- B — Benzene
- T — Toluene
- E — Ethylbenzene
- X — Xylenes
- T NAPH — Total naphthalene
- All sample results are listed in milligrams per liter
- Overhead electric line
- Fence
- Active pipeline
- Inactive pipeline

SOURCE:
Modified from maps provided by
Groundwater & Environmental Services, Inc.
ImagePatch.com © 2016 Microsoft Corporation
AECOM and Google Earth Pro

APPROXIMATE SCALE

0 60 120
FEET

FN 36120002

GROUNDWATER SAMPLE ANALYSES MAP 11/28-29/17

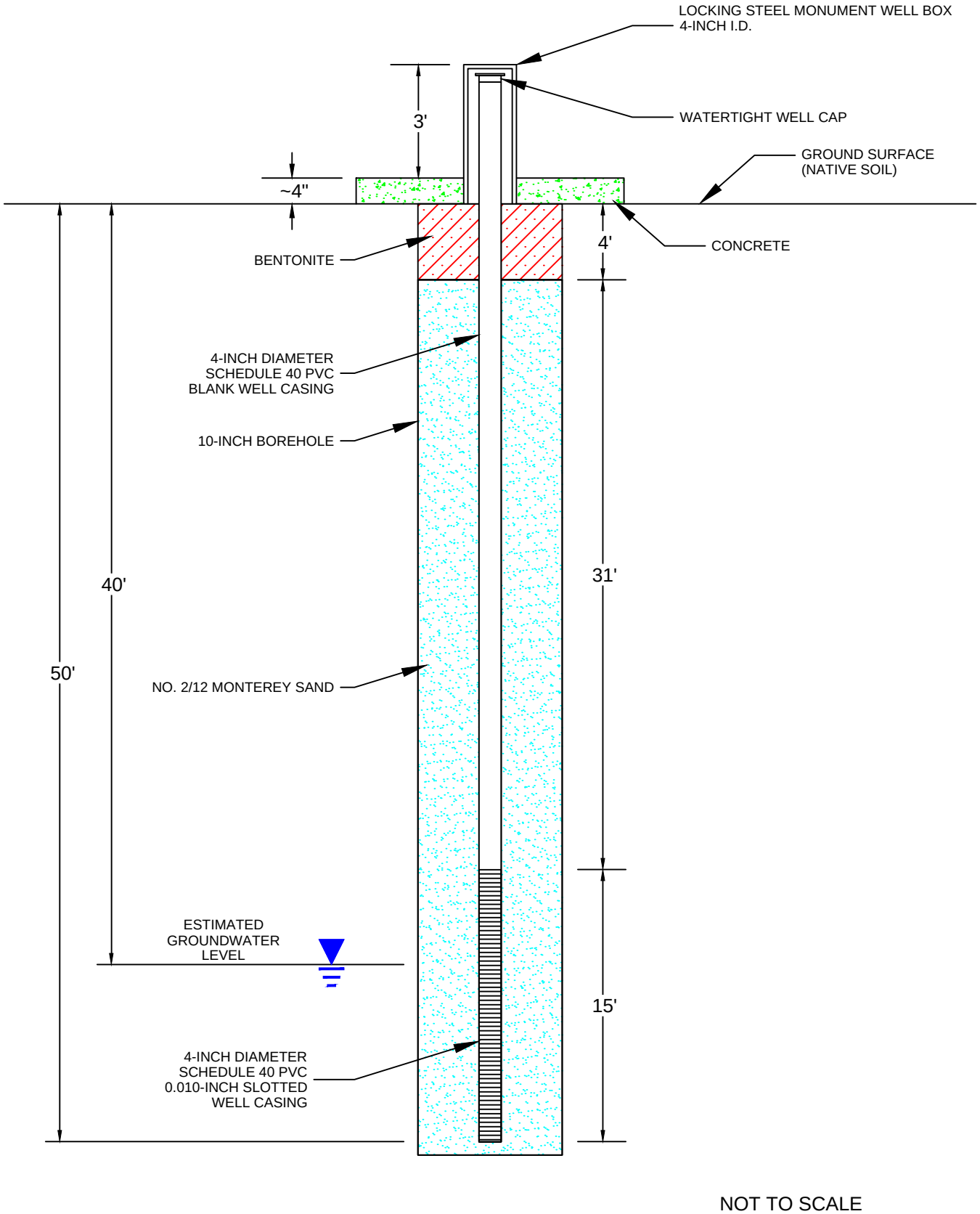
GLADIOLA STATION
Lea County, New Mexico

Cardno

PROJECT NO. 3612

PLATE 4

DATE: 05/25/18



NOT TO SCALE

FN 01361204.W01

Cardno

PROPOSED GROUNDWATER MONITORING WELL CONSTRUCTION DIAGRAM

GLADIOLA STATION
Lea County, New Mexico

PROJECT NO. 3612

PLATE 5

DATE: 05/25/18

TABLE 1
WATER LEVEL MEASUREMENTS AND GROUNDWATER ANALYSES
Gladiola Station
Lea County, New Mexico
Cardno 3612

Date	Well Elev (feet)	GW Depth (feet)	GW Elev (feet)	NAPL (feet)	Benzene (mg/l)	Toluene (mg/l)	Ethylbenzene (mg/l)	Xylenes (mg/l)
NMED WQCC HHS					**0.01**	**0.75**	**0.75**	**0.62**
Field Point MW-1	**Well Screen Interval (feet):**	**22.71-42.71**						
11/28/17	3866.63	37.18	3,829.67	0.27				
Field Point MW-2	**Well Screen Interval (feet):**	**27.59-47.59**						
11/28/17	3869.40				Inaccessible - Stick-up well casing damaged.			
Field Point MW-3	**Well Screen Interval (feet):**	**24.20-44.20**						
11/28/17	3865.25	35.70	3,829.57	0.02	Insufficient water to sample.			
Field Point MW-4	**Well Screen Interval (feet):**	**23.97-38.97**						
11/28/17	3866.18	37.03	3,829.59	0.53				
Field Point MW-5	**Well Screen Interval (feet):**	**27.19-47.19**						
11/28/17	3868.54	40.06	3,829.52	1.25				
Field Point MW-6	**Well Screen Interval (feet):**	**27.05-42.05**						
11/28/17	3868.52	38.91	3,829.61	No				
11/29/17	3868.52			No	<0.00050	<0.00050	<0.00050	<0.00050
Field Point MW-7	**Well Screen Interval (feet):**	**24.35-39.35**						
11/28/17	3865.67	36.11	3,829.56	No				
Field Point MW-8	**Well Screen Interval (feet):**	**23.05-38.05**						
11/28/17	3865.32				Unable to locate - Presumed destroyed.			
Field Point MW-9	**Well Screen Interval (feet):**	**27.64-42.64**						
11/28/17	3869.82	40.80	3,829.21	0.23				
Field Point MW-10	**Well Screen Interval (feet):**	**28.08-43.08**						
11/28/17	3870.38	41.29	3,829.09	No				
11/29/17	3870.38			No	0.00051	<0.00050	<0.00050	<0.00050
Field Point MW-11	**Well Screen Interval (feet):**	**29.00-44.00**						
11/28/17	3868.06	40.61	3,827.45	No				
11/29/17	3868.06			No	<0.00050	<0.00050	<0.00050	0.00022 J
Field Point MW-12	**Well Screen Interval (feet):**	**30.00-45.00**						
11/28/17	3869.27	40.58	3,829.09	0.48				
Field Point MW-13	**Well Screen Interval (feet):**	**30.00-45.00**						
11/28/17	3868.63	39.85	3,829.62	1.01				
Field Point MW-14	**Well Screen Interval (feet):**	**27.00-42.00**						
11/28/17	3868.47	40.00	3,829.62	1.39				
Field Point MW-15	**Well Screen Interval (feet):**	**29.00-44.00**						
11/28/17	3868.74	38.96	3,830.03	0.30				
Field Point MW-16	**Well Screen Interval (feet):**	**26.50-41.50**						
11/28/17	3868.54	38.79	3,830.17	0.51				
Field Point MW-17	**Well Screen Interval (feet):**	**29.50-44.50**						
11/28/17	3869.14	40.09	3,829.05	No				
11/29/17	3869.14			No	**0.17**	<0.012	**0.77**	0.27

TABLE 1
WATER LEVEL MEASUREMENTS AND GROUNDWATER ANALYSES
Gladiola Station
Lea County, New Mexico
Cardno 3612

Date	Well Elev (feet)	GW Depth (feet)	GW Elev (feet)	NAPL (feet)	Benzene (mg/l)	Toluene (mg/l)	Ethylbenzene (mg/l)	Xylenes (mg/l)
NMED WQCC HHS					**0.01**	**0.75**	**0.75**	**0.62**
Field Point MW-18	**Well Screen Interval (feet):**	**27.00-42.00**						
11/28/17	3868.79	39.41	3,829.61	0.28				
Field Point MW-19	**Well Screen Interval (feet):**	**27.00-42.00**						
11/28/17	3868.75	39.08	3,829.67	No				
11/29/17	3868.75			No	0.0010	<0.00050	0.00098	0.00053
Field Point MW-20	**Well Screen Interval (feet):**	**29.50-44.50**						
11/28/17	3868.97	39.66	3,829.58	0.33				
Field Point MW-21	**Well Screen Interval (feet):**	**29.50-44.50**						
11/28/17	3868.89	39.63	3,829.62	0.43				
Field Point MW-22	**Well Screen Interval (feet):**	**30.00-45.00**						
11/28/17	3869.73	40.90	3,828.83	No				
11/29/17	3869.73			No	<0.00050	<0.00050	<0.00050	<0.00050
Field Point MW-23	**Well Screen Interval (feet):**	**31.00-46.00**						
11/28/17	3869.08	39.50	3,829.65	0.08				
Field Point MW-24	**Well Screen Interval (feet):**	**28.00-43.00**						
11/28/17	3867.88	40.54	3,830.11	3.34				
Field Point MW-25	**Well Screen Interval (feet):**	**28.00-43.00**						
11/28/17	3868.99	41.57	3,829.34	2.31				
Field Point MW-26	**Well Screen Interval (feet):**	**30.00-45.00**						
11/28/17	3868.98	39.95	3,829.03	No				
11/29/17	3868.98			No	0.00061	<0.00050	0.00025 J	0.00046 J

Notes: Data collected prior to December 8, 2015 provided by AECOM.
ELEV = Elevation.
GW = Groundwater.
NAPL = Non-aqueous phase liquid.
Groundwater elevations are adjusted for NAPL thickness using a relative density of 0.83.
NMED WQCC HHS = New Mexico Environmental Department Water Quality Control Commission Human Health Standard for groundwater with 10,000 mg/l TDS or less.
Bolded values equal or exceed applicable regulatory limits.
Naphthalene is analyzed by EPA Method 8270C unless otherwise noted.
Total naphthalenes are the sum of 1- and 2-methylnaphthalene and naphthalene.
TDS = Total dissolved solids.
mg/l = Milligrams per liter.
BDL = Below laboratory detection limits.
< = Not detected at or above stated laboratory reporting limit.
A-01 = Could not obtain constant weight.
D = Duplicate sample.
J = Estimated value between method detection limit and practical quantitation limit.
R1 = The relative percent difference between the primary and confirmatory analysis exceeded 40%; the higher value was reported.
R10 = The relative percent difference between the primary and confirmatory analysis exceeded 40%; the lower value was reported due to apparent chromatographic problems.
R12 = The relative percent difference between the primary and confirmatory analysis exceeded 40%; the lower value was reported.
X = Pre-purge/no-purge sample.
(a) = Analyzed by EPA Method 8310.
(b) = Analyzed by EPA Method 8260B.
(c) = Analyzed method unknown.
(d) = Analyzed to determine the presense of NAPL.

TABLE 2
GROUNDWATER ANALYTICAL RESULTS FOR SVOCs
Gladiola Station
Lea County, New Mexico
Cardno 3612

Date	Acenaphthene (mg/l)	Acenaphthylene (mg/l)	Anthracene (mg/l)	Benzo(a)anthracene (mg/l)	Benzo(a)pyrene (mg/l)	Benzo(b)fluoranthene (mg/l)	Benzo(g,h,i)perylene (mg/l)	Benzo(k)fluoranthene (mg/l)	Chrysene (mg/l)	Dibenz(a,h)anthracene (mg/l)	Fluoranthene (mg/l)	Fluorene (mg/l)	Indeno(1,2,3-cd)pyrene (mg/l)
NMED WQCC HHS	**NA**	**NA**	**NA**	**NA**	**0.0007**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**
Field Point MW-6	**Well Screen Interval (feet):**		**27.05-42.05**										
11/29/17	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	0.00017 J	<0.00019
Field Point MW-10	**Well Screen Interval (feet):**		**28.08-43.08**										
11/29/17	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019
Field Point MW-11	**Well Screen Interval (feet):**		**29.00-44.00**										
11/29/17	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	0.00015 J	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	0.00022	<0.00019
Field Point MW-17	**Well Screen Interval (feet):**		**29.50-44.50**										
11/29/17	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	0.0016	<0.00019
Field Point MW-19	**Well Screen Interval (feet):**		**27.00-42.00**										
11/29/17	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	0.00068	<0.00019
Field Point MW-22	**Well Screen Interval (feet):**		**30.00-45.00**										
11/29/17	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Field Point MW-26	**Well Screen Interval (feet):**		**30.00-45.00**										
11/29/17	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019

TABLE 2
GROUNDWATER ANALYTICAL RESULTS FOR SVOCs
Gladiola Station
Lea County, New Mexico
Cardno 3612

Date	Phenanthrene (mg/l)	Pyrene (mg/l)	Naphthalene (mg/l)	1-Methylnaphthalene (mg/l)	2-Methylnaphthalene (mg/l)	Total Naphthalene (mg/l)
NMED WQCC HHS	**NA**	**NA**	**NA**	**NA**	**NA**	**0.03**
Field Point MW-6	**Well Screen Interval (feet): 27.05-42.05**					
11/29/17	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019
Field Point MW-10	**Well Screen Interval (feet): 28.08-43.08**					
11/29/17	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019
Field Point MW-11	**Well Screen Interval (feet): 29.00-44.00**					
11/29/17	0.00033	<0.00019	0.00022	0.0010	0.0013	0.00252
Field Point MW-17	**Well Screen Interval (feet): 29.50-44.50**					
11/29/17	0.0013	<0.00019	0.044	0.022	0.028	**0.094**
Field Point MW-19	**Well Screen Interval (feet): 27.00-42.00**					
11/29/17	0.00018 J	<0.00019	0.00045	0.0013	0.00025	0.002
Field Point MW-22	**Well Screen Interval (feet): 30.00-45.00**					
11/29/17	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Field Point MW-26	**Well Screen Interval (feet): 30.00-45.00**					
11/29/17	<0.00019	<0.00019	0.00020	0.00018 J	0.00015 J	0.00053

TABLE 2

GROUNDWATER ANALYTICAL RESULTS FOR SVOCs

Gladiola Station

Lea County, New Mexico

Cardno 3612

Notes: Data collected prior to December 8, 2015 provided by AECOM.
ELEV = Elevation.
GW = Groundwater.
NAPL = Non-aqueous phase liquid.
Groundwater elevations are adjusted for NAPL thickness using a relative density of 0.83.
NMED WQCC HHS = New Mexico Environmental Department Water Quality Control Commission Human Health Standard for groundwater with 10,000 mg/l TDS or less.
Bolded values equal or exceed applicable regulatory limits.
Naphthalene is analyzed by EPA Method 8270C unless otherwise noted.
Total naphthalenes are the sum of 1- and 2-methylnaphthalene and naphthalene.
TDS = Total dissolved solids.
mg/l = Milligrams per liter.
BDL = Below laboratory detection limits.
< = Not detected at or above stated laboratory reporting limit.
A-01 = Could not obtain constant weight.
D = Duplicate sample.
J = Estimated value between method detection limit and practical quantitation limit.
R1 = The relative percent difference between the primary and confirmatory analysis exceeded 40%; the higher value was reported.
R10 = The relative percent difference between the primary and confirmatory analysis exceeded 40%; the lower value was reported due to apparent chromatographic problems.
R12 = The relative percent difference between the primary and confirmatory analysis exceeded 40%; the lower value was reported.
X = Pre-purge/no-purge sample.
(a) = Analyzed by EPA Method 8310.
(b) = Analyzed by EPA Method 8260B.
(c) = Analyzed method unknown.
(d) = Analyzed to determine the presense of NAPL.

TABLE 3
GROUNDWATER ANALYTICAL RESULTS FOR METALS AND ADDITIONAL PARAMETERS
Gladiola Station
Lea County, New Mexico
Cardno 3612

Date	Arsenic (mg/l)	Barium (mg/l)	Cadmium (mg/l)	Chromium (mg/l)	Lead (mg/l)	Mercury (mg/l)	Selenium (mg/l)	Silver (mg/l)	Chloride (mg/l)	Sulfate (mg/l)	Alkalinity (mg/l)	TDS (mg/l)
NMED WQCC HHS	**0.1**	**1**	**0.01**	**0.05**	**0.05**	**0.002**	**0.05**	**0.05**	**250.0**	**600.0**	**NA**	**1000.0**
Field Point MW-6	**Well Screen Interval (feet):**		**27.05-42.05**									
11/29/17	<0.0100	0.212	<0.0100	<0.0100	<0.0100	<0.000200	<0.0150	<0.00500	13	19	460	570
Field Point MW-10	**Well Screen Interval (feet):**		**28.08-43.08**									
11/29/17	0.0294	0.321	<0.0100	0.0154	<0.0100	**0.00319**	0.0184	<0.00500	130	67	691	**1080**
Field Point MW-11	**Well Screen Interval (feet):**		**29.00-44.00**									
11/29/17	<0.0100	0.0530	<0.0100	0.00570 J	<0.0100	<0.000200	0.0185	0.00189 J	210	110	454	**1090**
Field Point MW-17	**Well Screen Interval (feet):**		**29.50-44.50**									
11/29/17	0.0192	**10.2**	<0.0100	<0.0100	<0.0100	<0.000200	<0.0150	<0.00500	14	0.55 J	896	815
Field Point MW-19	**Well Screen Interval (feet):**		**27.00-42.00**									
11/29/17	0.0382	0.0579	<0.0100	**0.116**	<0.0100	<0.000200	0.00751 J	<0.00500	23	130	361	605
Field Point MW-22	**Well Screen Interval (feet):**		**30.00-45.00**									
11/29/17	0.0194	0.0259	<0.0100	<0.0100	<0.0100	<0.000200	<0.0150	<0.00500	32	190	250	675
Field Point MW-26	**Well Screen Interval (feet):**		**30.00-45.00**									
11/29/17	0.0127	0.0633	<0.0100	<0.0100	<0.0100	<0.000200	<0.0150	<0.00500	24	200	355	735

Notes: Data collected prior to December 8, 2015 provided by AECOM.
ELEV = Elevation.
GW = Groundwater.
NAPL = Non-aqueous phase liquid.
Groundwater elevations are adjusted for NAPL thickness using a relative density of 0.83.
NMED WQCC HHS = New Mexico Environmental Department Water Quality Control Commission Human Health Standard for groundwater with 10,000 mg/l TDS or less.
Bolded values equal or exceed applicable regulatory limits.
Naphthalene is analyzed by EPA Method 8270C unless otherwise noted.
Total naphthalenes are the sum of 1- and 2-methylnaphthalene and naphthalene.
TDS = Total dissolved solids.
mg/l = Milligrams per liter.
BDL = Below laboratory detection limits.
< = Not detected at or above stated laboratory reporting limit.
A-01 = Could not obtain constant weight.
D = Duplicate sample.
J = Estimated value between method detection limit and practical quantitation limit.
R1 = The relative percent difference between the primary and confirmatory analysis exceeded 40%; the higher value was reported.
R10 = The relative percent difference between the primary and confirmatory analysis exceeded 40%; the lower value was reported due to apparent chromatographic problems.
R12 = The relative percent difference between the primary and confirmatory analysis exceeded 40%; the lower value was reported.
X = Pre-purge/no-purge sample.
(a) = Analyzed by EPA Method 8310.
(b) = Analyzed by EPA Method 8260B.
(c) = Analyzed method unknown.
(d) = Analyzed to determine the presense of NAPL.

TABLE 4
CUMULATIVE WATER LEVEL MEASUREMENTS AND GROUNDWATER ANALYSES
Gladiola Station
Lea County, New Mexico
Cardno 3612

Date	Well Elev (feet)	GW Depth (feet)	GW Elev (feet)	NAPL (feet)	Benzene (mg/l)	Toluene (mg/l)	Ethylbenzene (mg/l)	Xylenes (mg/l)
NMED WQCC HHS					**0.01**	**0.75**	**0.75**	**0.62**
Field Point MW-1	**Well Screen Interval (feet):**	**22.71-42.71**						
05/17/04	3863.81	32.74	3831.07	No				
11/30/04	3863.81	30.83	3835.00	2.43				
05/05/05	3863.81	29.20	3835.25	0.77				
07/24/06	3863.81	28.71	3835.58	0.58	**1.6**	0.236	0.181	**0.815**
02/08/07	3863.81	28.92	3835.27	0.46	**1.1**	0.106	0.362	**1.46**
04/15/08	3863.81	29.45	3834.68	0.39				
09/21/08	3863.81			No				
09/26/08	3863.81	29.58	3834.51	0.34	**1.03**	0.00434	0.551	**1.63**
02/15/09	3863.81	30.50	3833.60	0.35				
05/19/09	3863.81	30.85	3833.32	0.43	**1.12**	0.00132	0.563	**1.22**
08/19/09	3865.14	31.75	3833.68	0.35	**1.06**	0.227	0.67	**1.51**
10/30/09	3865.14	31.73	3833.64	0.28	**1.01**	0.00225	**0.774**	**1.63**
10/12/11	3865.14	34.60	3831.00	0.55				
02/22/12	3865.14	34.85	3830.66	0.45				
07/17/12	3866.63	35.26	3831.77	0.48				
10/03/12	3866.63	35.42	3831.58	0.45				
05/14/13	3866.63	35.83	3831.12	0.39				
01/27/14	3866.63	36.83	3830.57	0.93				
06/17/14	3866.63	36.92	3830.19	0.58				
11/18/14	3866.63	36.94	3830.19	0.60				
12/07/15	3866.63	36.87	3830.11	0.42				
04/26/16	3866.63	37.20	3829.73	0.36				
10/24/16	3866.63	36.64	3830.17	0.22				
05/22/17	3866.63	37.41	3829.56	0.41				
11/28/17	3866.63	37.18	3,829.67	0.27				
Field Point MW-2	**Well Screen Interval (feet):**	**27.59-47.59**						
05/17/04	3867.89	37.04	3830.85	No				
11/30/04	3867.89	35.61	3833.88	1.93				
05/05/05	3867.89	33.36	3834.90	0.45				
07/25/06	3867.89	33.14	3834.95	0.24	0.00492	0.0142	0.142	0.166
02/08/07	3867.89	33.07	3834.92	0.12	**0.0550**	0.0111	0.0726	0.105
04/15/08	3867.89	38.81	3834.43	6.44				
09/22/08	3867.89			No				
09/26/08	3867.89	38.97	3833.94	6.05	**2.57**	**2.66**	0.504	**1.210**
02/15/09	3867.89	38.95	3833.45	5.43				
05/19/09	3867.89	38.63	3833.09	4.62	Not sampled - NAPL entered bailer during each attempt.			
08/19/09	3867.89	39.00	3832.92	4.85	**2.70**	**2.44**	0.495	**1.110**
10/30/09	3867.89	38.98	3832.87	4.77	**3.25**	<0.00100	0.381	**0.675**
10/12/11	3867.89	39.46	3830.82	2.88				
02/22/12	3867.89	39.73	3830.48	2.80				
07/17/12	3869.40	40.19	3831.64	2.93				
10/03/12	3869.40	40.29	3831.45	2.82				
05/14/13	3869.40	40.72	3830.96	2.75				
01/27/14	3869.40	40.11	3830.39	1.33				
06/17/14	3869.40				Inaccessible - Stick-up well casing damaged.			
12/07/15	3869.40				Inaccessible - Stick-up well casing damaged.			
04/26/16	3869.40				Inaccessible - Stick-up well casing damaged.			
10/24/16	3869.40				Inaccessible - Stick-up well casing damaged.			
05/22/17	3869.40				Inaccessible - Stick-up well casing damaged.			
11/28/17	3869.40				Inaccessible - Stick-up well casing damaged.			

TABLE 4
CUMULATIVE WATER LEVEL MEASUREMENTS AND GROUNDWATER ANALYSES
Gladiola Station
Lea County, New Mexico
Cardno 3612

Date	Well Elev (feet)	GW Depth (feet)	GW Elev (feet)	NAPL (feet)	Benzene (mg/l)	Toluene (mg/l)	Ethylbenzene (mg/l)	Xylenes (mg/l)
NMED WQCC HHS					**0.01**	**0.75**	**0.75**	**0.62**
Field Point MW-3	**Well Screen Interval (feet):**	**24.20-44.20**						
05/17/04	3863.72	32.79	3830.93	No				
11/30/04	3863.72	30.08	3834.01	0.44				
05/05/05	3863.72	28.90	3835.02	0.24				
07/24/06	3863.72	28.87	3835.06	0.25	**0.0452**	0.00715	0.0974	0.015
02/08/07	3863.72	28.79	3835.02	0.11	**0.586**	0.00522	0.114	0.360
04/15/08	3863.72	29.42	3834.48	0.22				
09/22/08	3863.72			No				
09/26/08	3863.72	29.99	3833.90	0.20	**1.55**	<0.00100	0.133	0.310
02/15/09	3863.72	29.90	3833.94	0.15				
05/19/09	3863.72	30.82	3833.14	0.29	**1.2**	<0.00100	0.116	0.206
08/19/09	3863.72	31.15	3832.86	0.35	**2.05**	<0.00100	0.174	0.317
10/30/09	3863.72	31.16	3832.83	0.33	**1.96**	<0.00100	0.166	0.320
10/12/11	3863.72	33.10	3830.94	0.38				
02/22/12	3863.72	33.30	3830.58	0.19				
07/17/12	3865.25	33.80	3831.71	0.31				
10/03/12	3865.25	33.94	3831.51	0.24				
05/14/13	3865.25	34.31	3831.04	0.12				
01/27/14	3865.25	35.04	3830.47	0.31				
06/17/14	3865.25	35.33	3830.13	0.25				
11/18/14	3865.25	35.34	3830.02	0.13				
12/07/15	3865.25	35.39	3829.93	0.09				
04/26/16	3865.25	35.69	3829.71	0.18				
10/24/16	3865.25	35.42	3829.93	0.12				
05/22/17	3865.25	35.80	3829.52	0.09				
11/28/17	3865.25	35.70	3,829.57	0.02	Insufficient water to sample.			
Field Point MW-4	**Well Screen Interval (feet):**	**23.97-38.97**						
07/25/06	3864.66	29.57	3835.09	No	**3.14**	0.0387	0.153	0.318
02/07/07	3864.66	29.66	3835.00	No	**2.78**	0.0239	0.215	0.451
04/15/08	3864.66	30.21	3834.45	No	**3.39**	0.0151	0.337	**0.662**
09/21/08	3864.66			No				
09/26/08	3864.66	30.75	3833.93	0.02	**2.95**	0.0276	0.328	**0.688**
02/15/09	3864.66	31.09	3833.58	0.01				
05/19/09	3864.66	31.73	3833.10	0.20	**1.93**	0.00189	0.170	0.546
08/19/09	3864.66	31.82	3832.98	0.17	**2.89**	<0.00100	0.336	0.600
10/30/09	3864.66	31.80	3832.96	0.12	**2.92**	0.0011	0.347	0.619
10/12/11	3864.66	34.09	3830.91	0.41				
02/22/12	3864.66	34.58	3830.54	0.56				
07/17/12	3866.18	35.21	3831.78	0.97				
10/03/12	3866.18	36.07	3831.51	1.69				
05/14/13	3866.18	35.53	3831.22	0.69				
01/27/14	3866.18	36.77	3830.47	1.28				
06/17/14	3866.18	36.76	3830.12	0.84				
11/18/14	3866.18	36.79	3830.04	0.78				
12/07/15	3866.18	36.71	3829.99	0.63				
04/26/16	3866.18	36.78	3829.72	0.38				
10/24/16	3866.18	36.60	3829.89	0.37				
05/22/17	3866.18	37.15	3829.53	0.60				
11/28/17	3866.18	37.03	3,829.59	0.53				
Field Point MW-5	**Well Screen Interval (feet):**	**27.19-47.19**						
07/20/06	3866.99	31.82	3835.17	No	**6.93**	0.374	0.567	**1.14**
02/07/07	3866.99	31.93	3835.06	No	**6.91**	0.297	**0.905**	**1.74**

TABLE 4
CUMULATIVE WATER LEVEL MEASUREMENTS AND GROUNDWATER ANALYSES
Gladiola Station
Lea County, New Mexico
Cardno 3612

Date	Well Elev (feet)	GW Depth (feet)	GW Elev (feet)	NAPL (feet)	Benzene (mg/l)	Toluene (mg/l)	Ethylbenzene (mg/l)	Xylenes (mg/l)
NMED WQCC HHS					**0.01**	**0.75**	**0.75**	**0.62**
Field Point MW-5	**Well Screen Interval (feet):**	**27.19-47.19**						
04/15/08	3866.99	32.45	3834.54	No	**5.44**	0.0686	**0.763**	**1.33**
09/21/08	3866.99			No				
09/26/08	3866.99	33.07	3833.92	No	**6.17**	0.0979	0.736	**1.220**
02/06/09	3866.99	33.54	3833.45	No	**5.61**	0.0514	**0.849**	**1.410**
02/06/09 D	3866.99	33.54	3833.45	No	**5.26**	0.0438	**0.835**	**1.320**
05/19/09	3866.99	33.83	3833.16	No	**5.08**	0.0436	0.681	**1.180**
08/19/09	3866.99	34.15	3832.84	No	**4.68**	0.0567	0.726	**0.932**
08/19/09 D	3866.99	34.15	3832.84	No	**4.79**	0.0732	0.709	**1.100**
10/30/09	3866.99	34.35	3832.64	No	**5.01**	0.0933	0.713	**1.25**
10/12/11	3866.99	36.02	3830.97	No	**3.5**	0.00678	0.521	0.431
10/12/11 D	3866.99	36.02	3830.97	No	**3.47**	0.00666	0.52	0.407
02/22/12	3866.99	36.85	3830.14	No	**3.75**	0.00125	0.54	**0.626**
02/22/12 D	3866.99	36.85	3830.14	No	**3.65**	<0.00100	0.516	0.593
07/17/12	3868.54	36.70	3831.84	No	**2.68**	<0.00100	0.419	0.262
07/17/12 D	3868.54	36.70	3831.84	No	**2.62**	<0.00100	0.39	0.251
10/03/12	3868.54	37.54	3831.00	No	**2.91**	<0.00100	0.49	**0.667**
10/03/12 D	3868.54	37.54	3831.00	No	**2.97**	<0.00100	0.501	**0.683**
05/15/13	3868.54	37.47	3831.05	0.10				
01/28/14	3868.54	38.90	3830.47	1.00				
06/18/14	3868.54	39.13	3830.17	0.91				
11/18/14	3868.54	40.01	3829.95	1.71				
12/07/15	3868.54	41.09	3829.92	2.98				
04/26/16	3868.54	39.48	3829.76	0.84				
10/24/16	3868.54	39.59	3829.80	1.02				
05/22/17	3868.54	39.80	3829.66	1.11				
11/28/17	3868.54	40.06	3,829.52	1.25				
Field Point MW-6	**Well Screen Interval (feet):**	**27.05-42.05**						
07/21/06	3867.00	31.84	3835.16	No	**0.034**	0.001	0.001	0.0531
02/07/07	3867.00	31.93	3835.07	No	0.00667	<0.00100	<0.00100	0.0245
04/15/08	3867.00	32.51	3834.49	No	**1.34**	<0.00100	<0.00100	<0.00300
09/21/08	3867.00			No				
09/26/08	3867.00	33.08	3833.92	No	0.00261	<0.00100	<0.00100	<0.00300
02/06/09	3867.00	33.51	3833.49	No	0.00143	<0.00100	<0.00100	<0.00300
05/18/09	3867.00	33.87	3833.13	No	0.00184	<0.00100	<0.00100	<0.00300
08/19/09	3867.00	34.15	3832.85	No	<0.00100	<0.00100	<0.00100	<0.00300
10/30/09	3867.00	34.35	3832.65	No	<0.00100	<0.00100	<0.00100	<0.00300
11/19/09	3867.00	34.42	3832.58	No				
10/13/11	3867.00	36.14	3830.86	No				
02/22/12	3867.00	38.65	3828.35	No	<0.00100	<0.00100	<0.00100	<0.00300
07/17/12	3868.52	36.78	3831.74	No	<0.00100	<0.00100	<0.00100	<0.00300
10/03/12	3868.52	37.40	3831.12	No	<0.00100	<0.00100	<0.00100	<0.00300
05/15/13	3868.52	37.49	3831.03	No	0.000202 J	<0.00017	<0.00019	<0.00018
01/28/14	3868.52	38.07	3830.45	No	<0.0002	<0.00017	<0.00019	<0.00058
06/18/14	3868.52	38.38	3830.14	No	<0.0002	<0.00017	<0.00019	<0.00038
11/19/14	3868.52	38.54	3829.98	No	<0.00100	<0.00100	<0.00100	<0.002
12/08/15	3868.52	38.60	3829.92	No	<0.00100	<0.00100	<0.00100	<0.00300
04/26/16	3868.52	38.91	3829.61	No	<0.00100	<0.00100	<0.00100	<0.00300
10/24/16	3868.52	38.79	3829.73	No				
10/25/16	3868.52				Unable to sample due to silt in pump.			
05/22/17	3868.52	38.93	3829.59	No				
05/24/17	3868.52			No	<0.00050	<0.00050	<0.00050	<0.00050
11/28/17	3868.52	38.91	3,829.61	No				

TABLE 4
CUMULATIVE WATER LEVEL MEASUREMENTS AND GROUNDWATER ANALYSES
Gladiola Station
Lea County, New Mexico
Cardno 3612

Date	Well Elev (feet)	GW Depth (feet)	GW Elev (feet)	NAPL (feet)	Benzene (mg/l)	Toluene (mg/l)	Ethylbenzene (mg/l)	Xylenes (mg/l)
NMED WQCC HHS					**0.01**	**0.75**	**0.75**	**0.62**
Field Point MW-6	**Well Screen Interval (feet):**	**27.05-42.05**						
11/29/17	3868.52			No	<0.00050	<0.00050	<0.00050	<0.00050
Field Point MW-7	**Well Screen Interval (feet):**	**24.35-39.35**						
07/25/06	3864.14	29.05	3835.09	No	**0.0279**	0.00113	0.00385	0.0288
02/07/07	3864.14	29.08	3835.06	No	**0.0332**	<0.00100	0.0244	0.0276
04/15/08	3864.14	29.67	3834.47	No	**0.0147**	<0.00100	0.00422	0.0167
09/20/08	3864.14			No				
09/26/08	3864.14	30.17	3833.97	No	**0.0194**	<0.00100	0.00260	0.0161
02/05/09	3864.14	30.54	3833.60	No	**0.0158**	<0.00100	0.00424	0.0122
05/18/09	3864.14	31.08	3833.06	No	**0.0138**	<0.00100	0.00270	0.0107
08/19/09	3864.14	31.20	3832.94	No	**0.0250**	<0.00100	<0.00100	0.0160
10/30/09	3864.14	31.29	3832.85	No	**0.0363**	<0.00100	0.00193	0.0356
10/13/11	3864.14	33.24	3830.90	Sheen	**0.0115**	<0.00100	<0.00100	<0.00300
02/22/12	3864.14	34.20	3829.94	Sheen	**0.0348**	<0.00100	0.0026	<0.00300
07/17/12	3865.67	33.96	3831.73	0.02				
10/03/12	3865.67	34.16	3831.52	0.01				
05/14/13	3865.67	35.96	3829.98	0.32				
01/27/14	3865.67	35.22	3830.47	0.03				
06/17/14	3865.67	35.54	3830.13	Sheen				
11/18/14	3865.67	35.64	3830.03	Sheen				
12/07/15	3865.67	35.76	3829.92	0.01				
04/26/16	3865.67	36.00	3829.68	0.01				
10/24/16	3865.67	35.84	3829.83	(d)				
05/22/17	3865.67	Dry		No				
11/28/17	3865.67	36.11	3,829.56	No				
Field Point MW-8	**Well Screen Interval (feet):**	**23.05-38.05**						
07/25/06	3863.80	28.74	3835.06	No	**0.0176**	0.001	0.00724	0.0236
02/07/07	3863.80	28.82	3834.98	No	0.00561	<0.00100	0.0138	0.00655
04/15/08	3863.80	29.40	3834.40	No	0.00319	<0.00100	0.00382	0.00614
09/20/08	3863.80			No				
09/26/08	3863.80	29.92	3833.88	No	0.00385	<0.00100	0.00722	0.0151
02/05/09	3863.80	30.31	3833.49	No	0.00337	<0.00100	0.00552	0.00313
05/18/09	3863.80	30.72	3833.08	No	0.00201	<0.00100	0.00406	0.00337
08/19/09	3863.80	29.95	3833.85	No	<0.00100	<0.00100	0.00318	0.00620
10/30/09	3863.80	29.99	3833.81	No	0.00124	<0.00100	<0.00100	0.00653
10/12/11	3863.80				Not measured or sampled.			
02/22/12	3863.80	33.40	3830.42	0.02				
07/17/12	3865.32	33.80	3831.68	0.19				
10/03/12	3865.32	33.96	3831.58	0.26				
05/14/13	3865.32				Unable to locate - Presumed destroyed.			
01/27/14	3865.32				Unable to locate - Presumed destroyed.			
06/17/14	3865.32				Unable to locate - Presumed destroyed.			
12/07/15	3865.32				Unable to locate - Presumed destroyed.			
04/26/16	3865.32				Unable to locate - Presumed destroyed.			
10/24/16	3865.32				Unable to locate - Presumed destroyed.			
05/22/17	3865.32				Unable to locate - Presumed destroyed.			
11/28/17	3865.32				Unable to locate - Presumed destroyed.			
Field Point MW-9	**Well Screen Interval (feet):**	**27.64-42.64**						
07/21/06	3868.29	33.48	3834.81	No	0.00137	0.001	0.001	0.003
02/06/07	3868.29	33.60	3834.69	No	0.00170	<0.00100	<0.00100	<0.00300
04/15/08	3868.29	34.10	3834.19	No	0.00254	<0.00100	<0.00100	<0.00300
09/21/08	3868.29			No				

TABLE 4
CUMULATIVE WATER LEVEL MEASUREMENTS AND GROUNDWATER ANALYSES
Gladiola Station
Lea County, New Mexico
Cardno 3612

Date	Well Elev (feet)	GW Depth (feet)	GW Elev (feet)	NAPL (feet)	Benzene (mg/l)	Toluene (mg/l)	Ethylbenzene (mg/l)	Xylenes (mg/l)
NMED WQCC HHS					**0.01**	**0.75**	**0.75**	**0.62**
Field Point MW-9	**Well Screen Interval (feet): 27.64-42.64**							
09/26/08	3868.29	34.66	3833.63	No	<0.00100	<0.00100	<0.00100	<0.00300
02/05/09	3868.29	35.16	3833.13	No	0.00585	<0.00100	<0.00100	<0.00300
05/18/09	3868.29	35.44	3832.85	No	0.00404	<0.00100	<0.00100	<0.00300
08/19/09	3868.29	35.70	3832.59	No	<0.00100	<0.00100	<0.00100	<0.00300
10/30/09	3868.29	35.93	3832.36	No	<0.00100	<0.00100	<0.00100	<0.00300
10/13/11	3868.29	37.66	3830.63	No	<0.00100	<0.00100	<0.00100	<0.00300
02/22/12	3868.29	38.49	3829.80	No	0.00136	<0.00100	<0.00100	<0.00300
07/17/12	3869.82	38.30	3831.52	No	0.00529	<0.00100	0.00654	0.0132
10/03/12	3869.82	38.40	3831.50	0.10	**0.135**	0.00971	0.177	**0.829**
05/14/13	3869.82	38.99	3830.88	0.06				
01/28/14	3869.82	40.12	3830.14	0.53				
06/17/14	3869.82	40.22	3829.84	0.29				
11/17/14	3869.82	40.35	3829.64	0.20				
12/07/15	3869.82	40.51	3829.51	0.24				
04/26/16	3869.82	40.68	3829.37	0.28				
10/24/16	3869.82	40.71	3829.33	0.27				
05/22/17	3869.82	40.85	3829.26	0.35				
11/28/17	3869.82	40.80	3,829.21	0.23				
Field Point MW-10	**Well Screen Interval (feet): 28.08-43.08**							
07/21/06	3868.85	34.10	3834.75	No	**0.0133**	0.001	0.001	0.003
02/06/07	3868.85	34.22	3834.63	No	**0.0115**	<0.00100	<0.00100	<0.00300
04/15/08	3868.85	34.76	3834.09	No	0.00599	<0.00100	<0.00100	<0.00300
09/21/08	3868.85			No				
09/26/08	3868.85	35.34	3833.51	No	0.00635	<0.00100	<0.00100	<0.00300
02/05/09	3868.85	35.84	3833.01	No	0.00409	<0.00100	<0.00100	<0.00300
05/18/09	3868.85	36.12	3832.73	No	0.00348	<0.00100	<0.00100	<0.00300
08/19/09	3868.85	36.40	3832.45	No	<0.00100	<0.00100	<0.00100	<0.00300
10/30/09	3868.85	36.61	3832.24	No	<0.00100	<0.00100	<0.00100	<0.00300
11/19/09	3868.85	36.65	3832.20	No				
10/13/11	3868.85	38.30	3830.55	No	<0.00100	<0.00100	<0.00100	<0.00300
02/22/12	3868.85	38.83	3830.02	No	<0.00100	<0.00100	<0.00100	<0.00300
07/17/12	3870.38	38.96	3831.42	No	<0.00100	<0.00100	<0.00100	<0.00300
10/03/12	3870.38	39.46	3830.92	No	<0.00100	<0.00100	<0.00100	<0.00300
05/15/13	3870.38	39.72	3830.66	No	0.000879 J	<0.00017	<0.00019	<0.00018
05/15/13 D	3870.38	39.72	3830.66	No	0.00138	<0.00017	<0.00019	<0.00018
01/29/14	3870.38	40.33	3830.05	No	0.000898 J	<0.00017	<0.00019	<0.00058
06/18/14	3870.38	41.64	3828.74	No	Insufficient recharge for sampling.			
11/19/14	3870.38	40.89	3829.49	No	<0.00100	<0.00100	<0.00100	<0.002
11/19/14 D	3870.38	40.89	3829.49	No	<0.00100	<0.00100	<0.00100	<0.002
12/07/15	3870.38	40.91	3829.47	No	Insufficient water to sample.			
04/26/16	3870.38	41.47	3828.91	No	Insufficient water to sample.			
10/24/16	3870.38	41.17	3829.21	No	Insufficient water to sample.			
05/22/17	3870.38	41.25	3829.13	No				
05/24/17	3870.38			No	<0.00050	<0.00050	<0.00050	<0.00050
11/28/17	3870.38	41.29	3,829.09	No				
11/29/17	3870.38			No	0.00051	<0.00050	<0.00050	<0.00050
Field Point MW-11	**Well Screen Interval (feet): 29.00-44.00**							
04/30/08	3868.06	31.50	3836.56	No	<0.00100	<0.00100	<0.00100	<0.00300
09/21/08	3868.06			No				
09/26/08	3868.06	34.65	3833.41	No	0.00351	<0.00100	<0.00100	<0.00300
02/05/09	3868.06	35.12	3832.94	No	0.00401	<0.00100	<0.00100	<0.00300

TABLE 4
CUMULATIVE WATER LEVEL MEASUREMENTS AND GROUNDWATER ANALYSES
Gladiola Station
Lea County, New Mexico
Cardno 3612

Date	Well Elev (feet)	GW Depth (feet)	GW Elev (feet)	NAPL (feet)	Benzene (mg/l)	Toluene (mg/l)	Ethylbenzene (mg/l)	Xylenes (mg/l)
NMED WQCC HHS					**0.01**	**0.75**	**0.75**	**0.62**
Field Point MW-11	**Well Screen Interval (feet): 29.00-44.00**							
05/18/09	3868.06	35.42	3832.64	No	0.00382	<0.00100	<0.00100	<0.00300
08/19/09	3868.06	35.75	3832.31	No	<0.00100	<0.00100	<0.00100	<0.00300
10/30/09	3868.06	35.95	3832.11	No	<0.00100	<0.00100	<0.00100	<0.00300
10/13/11	3868.06	37.60	3830.46	No	<0.00100	<0.00100	<0.00100	<0.00300
02/22/12	3868.06	38.06	3830.00	No	<0.00100	<0.00100	<0.00100	<0.00300
07/17/12	3869.58	38.26	3831.32	No	<0.00100	<0.00100	<0.00100	<0.00300
10/03/12	3869.58	38.50	3831.08	No	<0.00100	<0.00100	<0.00100	<0.00300
05/15/13	3869.58	39.01	3830.57	No	0.000606 J	<0.00017	<0.00019	<0.00018
01/28/14	3869.58	39.57	3830.01	No	<0.000200	<0.00017	<0.00019	<0.00058
06/18/14	3869.58	39.95	3829.63	No	<0.000200	<0.00017	<0.00019	<0.00038
11/19/14	3869.58	40.20	3829.38	No	<0.00100	<0.00100	<0.00100	<0.002
12/08/15	3869.58	40.29	3829.29	No	<0.00100	<0.00100	<0.00100	<0.00300
04/27/16	3869.58	40.33	3829.25	No	<0.00100	<0.00100	<0.00100	<0.00300
10/24/16	3869.58	40.49	3829.09	No				
10/25/16	3868.06			No	<0.00100	<0.00100	<0.00100	<0.00300
05/22/17	3868.06	40.54	3827.52	No				
05/24/17	3868.06			No	<0.00050	0.00021 J	<0.00050	<0.00050
11/28/17	3868.06	40.61	3,827.45	No				
11/29/17	3868.06			No	<0.00050	<0.00050	<0.00050	0.00022 J
Field Point MW-12	**Well Screen Interval (feet): 30.00-45.00**							
04/30/08	3867.74	31.50	3836.24	No	**0.0504**	0.00401	0.242	0.598
09/21/08	3867.74			No				
09/26/08	3867.74	34.12	3833.62	No	**0.222**	0.0116	**0.978**	**1.84**
02/05/09	3867.74	34.67	3833.07	No	**0.178**	0.0134	**1.19**	**2.22**
05/19/09	3867.74	34.98	3832.76	No	**0.143**	0.0128	**0.882**	**1.65**
08/19/09	3867.74	35.20	3832.54	No	**0.162**	0.00987	**0.937**	**1.68**
10/30/09	3867.74	35.45	3832.29	No	**0.162**	0.0128	**1.02**	**1.99**
10/13/11	3867.74	37.12	3830.62	No	**0.055**	0.00603	0.476	**1.01**
02/22/12	3867.74	37.46	3830.28	No	**0.059**	0.005	**0.869**	**1.66**
07/17/12	3869.27	37.90	3831.37	No	**0.050**	0.0116	0.737	0.562
10/03/12	3869.27	38.10	3831.17	No	**0.054**	0.0152	**0.822**	**1.67**
05/14/13	3869.27	38.60	3830.67	Sheen				
01/28/14	3869.27	39.30	3830.04	0.09				
06/17/14	3869.27	39.60	3829.74	0.09				
11/17/14	3869.27	40.50	3829.54	0.93				
12/07/15	3869.27	40.66	3829.46	1.03				
04/26/16	3869.27	40.38	3829.33	0.53				
10/24/16	3869.27	40.34	3829.21	0.39				
05/22/17	3869.27	40.50	3829.18	0.49				
11/28/17	3869.27	40.58	3,829.09	0.48				
Field Point MW-13	**Well Screen Interval (feet): 30.00-45.00**							
04/30/08	3867.11	29.65	3837.46	No	**3.64**	0.102	0.292	0.499
09/21/08	3867.11			No				
09/26/08	3867.11	33.11	3834.00	No	**9.26**	0.513	**0.972**	**1.71**
02/06/09	3867.11	33.62	3833.49	No	**10.1**	0.554	**1.050**	**1.89**
05/19/09	3867.11	33.88	3833.23	No	**8.44**	0.323	**0.842**	**1.38**
08/19/09	3867.11	34.32	3832.89	0.12	**8.13**	0.305	**0.950**	**2.07**
10/30/09	3867.11	34.45	3832.72	0.07	**9.55**	0.218	**1.03**	**1.75**
10/13/11	3867.11	36.90	3831.00	0.95				
02/22/12	3867.11	37.78	3829.89	0.68				
07/17/12	3868.63	38.85	3831.86	2.50				

TABLE 4
CUMULATIVE WATER LEVEL MEASUREMENTS AND GROUNDWATER ANALYSES
Gladiola Station
Lea County, New Mexico
Cardno 3612

Date	Well Elev (feet)	GW Depth (feet)	GW Elev (feet)	NAPL (feet)	Benzene (mg/l)	Toluene (mg/l)	Ethylbenzene (mg/l)	Xylenes (mg/l)
NMED WQCC HHS					**0.01**	**0.75**	**0.75**	**0.62**
Field Point MW-13	**Well Screen Interval (feet): 30.00-45.00**							
10/03/12	3868.63	39.02	3831.67	2.48				
05/14/13	3868.63	38.89	3831.30	1.88				
01/28/14	3868.63	39.91	3830.47	2.11				
06/17/14	3868.63	39.91	3830.19	1.77				
11/18/14	3868.63	41.56	3829.97	3.49				
12/07/15	3868.63	41.31	3829.94	3.16				
04/26/16	3868.63	40.12	3829.79	1.54				
10/24/16	3868.63	39.55	3829.87	0.95				
05/22/17	3868.63	39.91	3828.78	0.07				
11/28/17	3868.63	39.85	3,829.62	1.01				
Field Point MW-14	**Well Screen Interval (feet): 27.00-42.00**							
04/30/08	3866.92	29.48	3837.44	No	**0.0449**	0.00125	0.0231	0.0341
09/21/08	3866.92			No				
09/26/08	3866.92	32.82	3834.10	No	**0.123**	0.00187	0.0164	0.0911
02/06/09	3866.92	33.37	3833.55	No	**0.240**	0.00986	0.246	0.166
05/19/09	3866.92	33.64	3833.28	No	**0.120**	0.00203	0.0971	0.0386
08/19/09	3866.92	33.98	3832.94	No	**0.112**	<0.00100	0.110	0.0444
10/30/09	3866.92	34.15	3832.77	No	**0.119**	0.00168	0.0895	0.0645
10/13/11	3866.92	35.85	3831.07	No	**0.075**	<0.00100	0.0536	0.044
02/22/12	3866.92	36.19	3830.73	No	**0.0782**	<0.00100	0.0646	0.0212
07/17/12	3868.47	36.54	3831.93	No	**0.0798**	<0.00100	0.0731	0.0535
10/03/12	3868.47	36.90	3831.57	No	**0.107**	<0.00100	0.0965	0.0179
05/14/13	3868.47	38.39	3831.27	1.43				
01/28/14	3868.47	38.81	3830.55	1.07				
06/17/14	3868.47	38.76	3830.27	0.67				
11/18/14	3868.47	40.75	3830.04	2.79				
12/07/15	3868.47	41.49	3830.03	3.68				
04/26/16	3868.47	40.85	3829.87	2.71				
10/24/16	3868.47	40.86	3830.05	2.94				
05/22/17	3868.47	41.61	3829.72	3.44				
11/28/17	3868.47	40.00	3,829.62	1.39				
Field Point MW-15	**Well Screen Interval (feet): 29.00-44.00**							
04/30/08	3867.19	29.74	3837.45	No	**1.230**	0.167	0.320	0.554
09/21/08	3867.19			No				
09/26/08	3867.19	33.26	3833.94	0.01	**6.540**	**1.350**	**1.130**	**2.4**
02/15/09	3867.19	33.82	3833.44	0.09				
05/19/09	3867.19	34.20	3833.12	0.16	**3.800**	0.632	**0.848**	**1.8**
08/19/09	3867.19	34.40	3832.91	0.15	**3.850**	**0.892**	**0.799**	**2.25**
10/30/09	3867.19	34.60	3832.69	0.12	**8.96**	0.228	**0.949**	**1.66**
10/13/11	3867.19	38.04	3831.01	2.24				
02/22/12	3867.19	38.41	3830.71	2.32				
07/17/12	3868.74	38.20	3832.03	1.80				
10/03/12	3868.74	39.95	3831.57	3.35				
05/14/13	3868.74	40.11	3831.12	3.00				
01/28/14	3868.74	40.21	3830.47	2.34				
06/17/14	3868.74	39.35	3830.19	0.96				
11/18/14	3868.74	39.76	3830.13	1.39				
12/07/15	3868.74	40.31	3830.25	2.19				
04/26/16	3868.74	39.61	3829.89	0.91				
10/24/16	3868.74	38.70	3830.41	0.44				
05/22/17	3868.74	38.92	3829.84	0.02				

TABLE 4
CUMULATIVE WATER LEVEL MEASUREMENTS AND GROUNDWATER ANALYSES
Gladiola Station
Lea County, New Mexico
Cardno 3612

Date	Well Elev (feet)	GW Depth (feet)	GW Elev (feet)	NAPL (feet)	Benzene (mg/l)	Toluene (mg/l)	Ethylbenzene (mg/l)	Xylenes (mg/l)
NMED WQCC HHS					**0.01**	**0.75**	**0.75**	**0.62**
Field Point MW-15	**Well Screen Interval (feet):**	**29.00-44.00**						
11/28/17	3868.74	38.96	3,830.03	0.30				
Field Point MW-16	**Well Screen Interval (feet):**	**26.50-41.50**						
04/30/08	3867.02	29.95	3837.07	No	0.00321	<0.00100	0.0237	0.0376
09/21/08	3867.02			No				
09/26/08	3867.02	32.94	3834.08	No	0.00317	<0.00100	0.0253	0.0790
02/06/09	3867.02	33.39	3833.63	No	**0.0113**	<0.00100	0.0426	0.0634
05/18/09	3867.02	33.73	3833.29	No	0.00670	<0.00100	0.0488	0.0526
08/19/09	3867.02	34.00	3833.02	No	0.00419	<0.00100	0.0251	0.0797
10/30/09	3867.02	34.17	3832.85	No	0.00391	<0.00100	0.0128	0.0564
10/30/09 D	3867.02	34.17	3832.85	No	0.00576	<0.00100	0.0350	0.122
10/13/11	3867.02	35.95	3831.07	No	0.00190	<0.00100	0.0145	0.0342
02/22/12	3867.02	36.45	3830.57	No	<0.00100	<0.00100	<0.00100	<0.00300
07/17/12	3868.54	36.65	3831.89	No	0.00157	<0.00100	0.01860	0.01050
10/03/12	3868.54	37.10	3831.44	No	0.00192	<0.00100	0.06370	0.07700
05/14/13	3868.54	38.05	3831.20	0.86				
01/27/14	3868.54	39.11	3830.67	1.49				
06/17/14	3868.54	39.10	3830.32	1.06				
11/18/14	3868.54	38.88	3830.44	0.94				
12/07/15	3868.54	38.61	3830.52	0.71				
04/26/16	3868.54	39.23	3830.02	0.85				
10/24/16	3868.54	38.36	3830.61	0.52				
05/22/17	3868.54	39.30	3829.82	0.70				
11/28/17	3868.54	38.79	3,830.17	0.51				
Field Point MW-17	**Well Screen Interval (feet):**	**29.50-44.50**						
08/19/09	3867.64	35.22	3832.42	No	**1.28**	0.0146	**0.845**	**1.19**
10/30/09	3867.64	35.40	3832.24	No	**1.52**	0.0211	**0.986**	**1.55**
10/13/11	3867.64	37.10	3830.54	No	**0.68**	<0.00100	0.407	0.524
02/22/12	3867.64	37.40	3830.24	No	**0.871**	<0.00100	0.727	**1.16**
07/17/12	3869.14	37.75	3831.39	No	**0.649**	0.00494	0.504	0.438
10/03/12	3869.14	38.20	3830.94	No	**0.825**	0.0103	0.682	**1.22**
05/14/13	3869.14	38.52	3830.62	Sheen				
01/28/14	3869.14	39.14	3830.00	Sheen				
06/17/14	3869.14	39.43	3829.71	Sheen				
11/07/14	3869.14	39.64	3829.50	Sheen				
12/09/15	3869.14	39.72	3829.42	Sheen				
04/26/16	3869.14	38.36	3830.78	Sheen				
10/24/16	3869.14	39.93	3829.21	(d)				
05/22/17	3869.14	40.00	3829.16	0.02				
11/28/17	3869.14	40.09	3,829.05	No				
11/29/17	3869.14			No	**0.17**	<0.012	**0.77**	0.27
Field Point MW-18	**Well Screen Interval (feet):**	**27.00-42.00**						
08/19/09	3867.31	34.45	3832.86	No	**2.40**	0.0206	0.681	**0.836**
10/30/09	3867.31	34.60	3832.71	No	**2.88**	0.0144	**0.779**	**0.703**
10/13/11	3867.31	36.26	3831.05	No	**1.81**	0.00572	0.274	0.108
02/22/12	3867.31	36.59	3830.73	0.01				
07/17/12	3868.79	37.30	3831.82	0.40				
10/03/12	3868.79	38.20	3831.34	0.90				
05/14/13	3868.79	38.23	3831.22	0.80				
01/28/14	3868.79	38.92	3830.53	0.80				
06/17/14	3868.79	38.99	3830.26	0.56				
11/17/14	3868.79	39.12	3830.04	0.44				

TABLE 4
CUMULATIVE WATER LEVEL MEASUREMENTS AND GROUNDWATER ANALYSES
Gladiola Station
Lea County, New Mexico
Cardno 3612

Date	Well Elev (feet)	GW Depth (feet)	GW Elev (feet)	NAPL (feet)	Benzene (mg/l)	Toluene (mg/l)	Ethylbenzene (mg/l)	Xylenes (mg/l)
NMED WQCC HHS					**0.01**	**0.75**	**0.75**	**0.62**
Field Point MW-18	**Well Screen Interval (feet):**	**27.00-42.00**						
12/07/15	3868.79	39.15	3829.92	0.34				
04/26/16	3868.79	39.36	3829.77	0.41				
10/24/16	3868.79	39.19	3829.77	0.21				
05/22/17	3868.79	39.45	3829.62	0.34				
11/28/17	3868.79	39.41	3,829.61	0.28				
Field Point MW-19	**Well Screen Interval (feet):**	**27.00-42.00**						
08/19/09	3867.26	34.22	3833.04	No	<0.00100	<0.00100	<0.00100	<0.00300
10/30/09	3867.26	34.40	3832.86	No	<0.00100	<0.00100	<0.00100	<0.00300
10/13/11	3867.26	36.08	3831.18	No	<0.00100	<0.00100	<0.00100	<0.00300
02/22/12	3867.26	37.14	3830.12	No	0.00188	<0.00100	0.192	0.329
07/17/12	3868.75	36.81	3831.94	No	<0.00100	<0.00100	<0.00100	<0.00300
10/03/12	3868.75	36.98	3831.77	No	<0.00100	<0.00100	<0.00100	<0.00300
05/15/13	3868.75	37.51	3831.24	No	<0.000200	<0.00017	<0.00019	<0.00018
01/29/14	3868.75	38.15	3830.60	No	<0.000200	<0.00017	<0.00019	<0.00058
06/18/14	3868.75	38.43	3830.32	No	<0.000200	<0.00017	<0.00019	<0.00038
11/18/14	3868.75	38.66	3830.09	No	<0.00100	<0.00100	<0.00100	<0.002
12/09/15	3868.75	38.68	3830.07	No	0.00413	<0.00100	<0.00100	0.0714
04/27/16	3868.75	38.91	3829.84	No	0.00416	<0.00100	<0.00100	0.0569
10/24/16	3868.75	38.86	3829.89	No				
10/25/16	3868.75			No	0.00153	<0.00100	<0.00100	0.0343
05/22/17	3868.75	39.00	3829.75	No				
05/24/17	3868.75			No	0.0011	0.00020 J	0.00060	0.0030
11/28/17	3868.75	39.08	3,829.67	No				
11/29/17	3868.75			No	0.0010	<0.00050	0.00098	0.00053
Field Point MW-20	**Well Screen Interval (feet):**	**29.50-44.50**						
08/19/09	3867.50	34.69	3832.81	No	<0.00100	<0.00100	<0.00100	<0.00300
10/30/09	3867.50	34.85	3832.65	No	<0.00100	<0.00100	<0.00100	<0.00300
10/13/11	3867.50	36.55	3830.95	No	<0.00100	<0.00100	<0.00100	<0.00300
02/22/12	3867.50	37.09	3830.41	No	<0.00100	<0.00100	<0.00100	<0.00300
07/17/12	3868.97	37.31	3831.66	No	<0.00100	<0.00100	<0.00100	<0.00300
10/03/12	3868.97	37.48	3831.49	No	<0.00100	<0.00100	<0.00100	<0.00300
05/15/13	3868.97	37.99	3830.98	No	<0.000200	<0.00017	<0.00019	<0.00018
01/29/14	3868.97	38.65	3830.32	No	<0.000200	<0.00017	<0.00019	<0.00058
06/18/14	3868.97	38.93	3830.04	No	<0.000200	<0.00017	<0.00019	<0.00038
11/18/14	3868.97	39.16	3829.81	No	0.0016	<0.00100	<0.00100	0.0098
12/07/15	3868.97	39.90	3829.83	0.92				
04/26/16	3868.97	40.04	3829.70	0.93				
10/24/16	3868.97	40.50	3829.60	1.36				
05/22/17	3868.97	40.42	3829.53	1.18				
11/28/17	3868.97	39.66	3,829.58	0.33				
Field Point MW-21	**Well Screen Interval (feet):**	**29.50-44.50**						
08/19/09	3867.43	34.42	3833.01	No	<0.00100	<0.00100	<0.00100	<0.00300
10/30/09	3867.43	34.60	3832.83	No	<0.00100	<0.00100	<0.00100	<0.00300
10/13/11	3867.43	36.24	3831.19	No	<0.00100	<0.00100	<0.00100	<0.00300
02/22/12	3867.43	36.75	3830.68	No	<0.00100	<0.00100	<0.00100	<0.00300
07/17/12	3868.89	36.95	3831.94	No	<0.00100	<0.00100	<0.00100	<0.00300
10/03/12	3868.89	37.15	3831.74	No	<0.00100	<0.00100	<0.00100	<0.00300
05/15/13	3868.89	37.67	3831.22	No	<0.000200	<0.00017	<0.00019	<0.00018
01/29/14	3868.89	38.35	3830.54	No	<0.000200	<0.00017	<0.00019	<0.00058
06/18/14	3868.89	38.62	3830.27	No	<0.000200	<0.00017	<0.00019	<0.00038
11/18/14	3868.89	38.87	3830.02	No	<0.00100	<0.00100	<0.00100	<0.002

TABLE 4
CUMULATIVE WATER LEVEL MEASUREMENTS AND GROUNDWATER ANALYSES
Gladiola Station
Lea County, New Mexico
Cardno 3612

Date	Well Elev (feet)	GW Depth (feet)	GW Elev (feet)	NAPL (feet)	Benzene (mg/l)	Toluene (mg/l)	Ethylbenzene (mg/l)	Xylenes (mg/l)
NMED WQCC HHS					**0.01**	**0.75**	**0.75**	**0.62**
Field Point MW-21	**Well Screen Interval (feet): 29.50-44.50**							
12/08/15	3868.89	38.85	3830.04	No	**0.0124**	<0.00100	<0.00100	0.00780
04/27/16	3868.89	39.05	3829.84	No	**0.0115**	<0.00100	<0.00100	0.0104
10/24/16	3868.89	39.13	3829.76	No				
10/25/16	3868.89			No	0.00383	<0.00100	<0.00100	<0.00300
05/22/17	3868.89	39.26	3829.73	0.12				
11/28/17	3868.89	39.63	3,829.62	0.43				
Field Point MW-22	**Well Screen Interval (feet): 30.00-45.00**							
10/30/09	3868.21	36.27	3831.94	No	<0.00100	<0.00100	<0.00100	<0.00300
10/13/11	3868.21	37.90	3830.31	No	<0.00100	<0.00100	<0.00100	<0.00300
02/22/12	3868.21	38.26	3829.95	No	<0.00100	<0.00100	<0.00100	<0.00300
07/17/12	3869.73	38.60	3831.13	No	<0.00100	<0.00100	<0.00100	<0.00300
10/03/12	3869.73	38.80	3830.93	No	<0.00100	<0.00100	<0.00100	<0.00300
05/15/13	3869.73	39.36	3830.37	No	<0.000200	<0.00017	<0.00019	<0.00018
01/29/14	3869.73	40.00	3829.73	No	<0.000200	<0.00017	<0.00019	<0.00058
01/29/14 D	3869.73	40.00	3829.73	No	<0.000200	<0.00017	<0.00019	<0.00058
06/18/14	3869.73	40.29	3829.44	No	<0.000200	<0.00017	<0.00019	<0.00038
11/19/14	3869.73	40.54	3829.19	No	<0.00100	<0.00100	<0.00100	<0.002
12/08/15	3869.73	40.62	3829.11	No	<0.00100	<0.00100	<0.00100	<0.00300
04/27/16	3869.73	40.79	3828.94	No	<0.00100	<0.00100	<0.00100	<0.00300
10/24/16	3869.73	40.82	3828.91	No				
10/25/16	3869.73			No	<0.00100	<0.00100	<0.00100	<0.00300
05/22/17	3869.73	40.89	3828.84	No				
05/24/17	3869.73			No	<0.00050	<0.00050	<0.00050	<0.00050
11/28/17	3869.73	40.90	3,828.83	No				
11/29/17	3869.73			No	<0.00050	<0.00050	<0.00050	<0.00050
Field Point MW-23	**Well Screen Interval (feet): 31.00-46.00**							
02/22/12	3867.58	36.77	3830.81	No	<0.00100	<0.00100	<0.00100	<0.00300
07/17/12	3869.08	37.13	3831.95	No	<0.00100	<0.00100	<0.00100	<0.00300
10/03/12	3869.08	37.30	3831.78	No	<0.00100	<0.00100	<0.00100	<0.00300
05/15/13	3869.08	37.88	3831.20	No	<0.000200	<0.00017	<0.00019	<0.00018
01/29/14	3869.08	38.51	3830.57	No	<0.000200	<0.00017	<0.00019	<0.00058
06/18/14	3869.08	38.79	3830.29	No	<0.000200	<0.00017	<0.00019	<0.00038
11/18/14	3869.08	39.03	3830.05	No	**0.13**	<0.00100	0.0092	0.065
12/08/15	3869.08	39.01	3830.07	No	**1.45**	<0.00100	0.239	<0.00300
04/27/16	3869.08	38.24	3830.84	No	**0.473**	<0.00500	0.0887	<0.0150
10/24/16	3869.08	34.35	3834.82	0.11				
05/22/17	3869.08	39.42	3829.75	0.11				
11/28/17	3869.08	39.50	3,829.65	0.08				
Field Point MW-24	**Well Screen Interval (feet): 28.00-43.00**							
02/22/12	3866.60	35.74	3830.89	0.04				
07/17/12	3867.88	39.70	3831.62	4.15				
10/03/12	3867.88	40.09	3831.40	4.35				
05/14/13	3867.88	38.05	3831.35	1.83				
01/28/14	3867.88	41.92	3830.28	5.21				
06/17/14	3867.88	43.09	3830.04	6.33				
11/18/14	3867.88	43.30	3829.98	6.50				
12/07/15	3867.88	42.51	3829.94	5.50				
04/27/16	3867.88	41.39	3829.54	3.68				
10/24/16	3867.88	42.33	3830.00	5.36				
05/22/17	3867.88	39.82	3829.55	1.80				
11/28/17	3867.88	40.54	3,830.11	3.34				

TABLE 4
CUMULATIVE WATER LEVEL MEASUREMENTS AND GROUNDWATER ANALYSES
Gladiola Station
Lea County, New Mexico
Cardno 3612

Date	Well Elev (feet)	GW Depth (feet)	GW Elev (feet)	NAPL (feet)	Benzene (mg/l)	Toluene (mg/l)	Ethylbenzene (mg/l)	Xylenes (mg/l)
NMED WQCC HHS					**0.01**	**0.75**	**0.75**	**0.62**
Field Point MW-25	**Well Screen Interval (feet): 28.00-43.00**							
02/22/12	3867.61	37.00	3830.61	No	**8.7**	**1.12**	**0.911**	**2.7**
07/17/12	3868.99	37.84	3831.58	0.52				
10/03/12	3868.99	38.92	3830.91	1.01				
05/14/13	3868.99	40.02	3830.99	2.43				
01/28/14	3868.99	41.72	3830.26	3.60				
06/17/14	3868.99	41.74	3829.99	3.30				
11/17/14	3868.99	41.45	3829.77	2.69				
12/07/15	3868.99	40.96	3829.73	2.05				
04/26/16	3868.99	40.00	3829.57	0.70				
10/24/16	3868.99	41.03	3829.53	1.89				
05/22/17	3868.99	41.13	3829.42	1.88				
11/28/17	3868.99	41.57	3,829.34	2.31				
Field Point MW-26	**Well Screen Interval (feet): 30.00-45.00**							
02/22/12	3867.59	37.28	3830.31	No	<0.00100	<0.00100	<0.00100	<0.00300
07/17/12	3868.98	37.90	3831.08	No	0.00177	<0.00100	<0.00100	<0.00300
10/03/12	3868.98	37.93	3831.05	No	0.00236	<0.00100	<0.00100	<0.00300
05/15/13	3868.98	38.37	3830.61	No	**0.0153**	<0.00017	<0.00019	<0.00018
01/29/14	3868.98	39.01	3829.97	No	**0.0129**	<0.00017	<0.00019	<0.00058
06/18/14	3868.98	39.30	3829.68	No	0.000672 J	<0.00017	<0.00019	<0.00038
11/19/14	3868.98	39.55	3829.43	No	0.0033	<0.00100	<0.00100	<0.002
12/08/15	3868.98	39.58	3829.40	No	<0.00100	<0.00100	<0.00100	<0.00300
04/27/16	3868.98	39.78	3829.20	No	**0.0242**	<0.00100	<0.00100	<0.00300
10/24/16	3868.98	39.81	3829.17	No				
10/25/16	3868.98			No	<0.00100	<0.00100	<0.00100	<0.00300
05/22/17	3868.98	39.86	3829.12	No				
05/24/17	3868.98			No	**0.037**	0.00023 J	<0.00050	0.00044 J
11/28/17	3868.98	39.95	3,829.03	No				
11/29/17	3868.98			No	0.00061	<0.00050	0.00025 J	0.00046 J
Field Point SB-1GW	**Grab Groundwater Sample**							
10/28/11				No	0.00719	<0.00100	<0.00100	<0.00300
Field Point SB-2GW	**Grab Groundwater Sample**							
10/28/11				No	**1.88**	0.0938	0.138	0.26
Field Point SB-3GW	**Grab Groundwater Sample**							
10/28/11				No	**1.94**	**2.42**	**0.986**	**2.27**
Field Point SB-4GW	**Grab Groundwater Sample**							
10/28/11				No	**3.91**	0.0703	0.587	**1.15**
Field Point SB-5GW	**Grab Groundwater Sample**							
10/28/11				No	**2.9**	0.024	0.034	0.218
Field Point SB-6GW	**Grab Groundwater Sample**							
10/28/11				No	0.00133	<0.00100	0.00168	<0.00300
Field Point SB-7GW	**Grab Groundwater Sample**							
10/28/11				No	**0.135**	0.00135	0.0263	0.0759

TABLE 4

CUMULATIVE WATER LEVEL MEASUREMENTS AND GROUNDWATER ANALYSES

Gladiola Station

Lea County, New Mexico

Cardno 3612

Notes: Data collected prior to December 8, 2015 provided by AECOM.
ELEV = Elevation.
GW = Groundwater.
NAPL = Non-aqueous phase liquid.
Groundwater elevations are adjusted for NAPL thickness using a relative density of 0.83.
NMED WQCC HHS = New Mexico Environmental Department Water Quality Control Commission Human Health Standard for groundwater with 10,000 mg/l TDS or less.
Bolded values equal or exceed applicable regulatory limits.
Naphthalene is analyzed by EPA Method 8270C unless otherwise noted.
Total naphthalenes are the sum of 1- and 2-methylnaphthalene and naphthalene.
TDS = Total dissolved solids.
mg/l = Milligrams per liter.
BDL = Below laboratory detection limits.
< = Not detected at or above stated laboratory reporting limit.
A-01 = Could not obtain constant weight.
D = Duplicate sample.
J = Estimated value between method detection limit and practical quantitation limit.
R1 = The relative percent difference between the primary and confirmatory analysis exceeded 40%; the higher value was reported.
R10 = The relative percent difference between the primary and confirmatory analysis exceeded 40%; the lower value was reported due to apparent chromatographic problems.
R12 = The relative percent difference between the primary and confirmatory analysis exceeded 40%; the lower value was reported.
X = Pre-purge/no-purge sample.
(a) = Analyzed by EPA Method 8310.
(b) = Analyzed by EPA Method 8260B.
(c) = Analyzed method unknown.
(d) = Analyzed to determine the presense of NAPL.

TABLE 5
CUMULATIVE GROUNDWATER ANALYTICAL RESULTS FOR PAHs
Gladiola Station
Lea County, New Mexico
Cardno 3612

Date	Acenaphthene (mg/l)	Acenaphthylene (mg/l)	Anthracene (mg/l)	Benzo(a)anthracene (mg/l)	Benzo(a)pyrene (mg/l)	Benzo(b)fluoranthene (mg/l)	Benzo(g,h,i)perylene (mg/l)	Benzo(k)fluoranthene (mg/l)	Chrysene (mg/l)	Dibenz(a,h)anthracene (mg/l)	Fluoranthene (mg/l)	Fluorene (mg/l)	Indeno(1,2,3-cd)pyrene (mg/l)
NMED WQCC HHS	**NA**	**NA**	**NA**	**NA**	**0.0007**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**
Field Point MW-1	**Well Screen Interval (feet):**	**22.71-42.71**											
07/24/06	<0.00101	<0.00101	0.141	0.0165	**0.00260**	0.000971	<0.000202	0.00128	0.0111	<0.000202	0.0788	0.00614	<0.000202
02/08/07	<0.00105	<0.00526	<0.00526	0.00603	<0.000105	0.00267	<0.000211	0.000886	0.00615	0.0104	0.153	0.0153	<0.000211
09/26/08	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100
05/19/09	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100
08/19/09	<0.0200	<0.100	0.0871 R12	0.162 R1	<0.00200	0.0369	0.0358 R1	0.0321 R1	0.323	0.0550 R1	1.660 R1	0.0895	0.0210
10/30/09	<0.00100	<0.00500	<0.00100	<0.000200	<0.000100	<0.000100	<0.000200	<0.000140	0.000992	<0.000200	0.00634 R1	0.00163	<0.000200
10/12/11	<0.0000952	<0.0000952	<0.0000952	<0.0000952	<0.0000952	<0.0000952	<0.0000952	<0.0000952	<0.0000952	<0.0000952	<0.0000952	0.000476	<0.0000952
Field Point MW-2	**Well Screen Interval (feet):**	**27.59-47.59**											
07/25/06	<0.000939	<0.00217	0.228	0.0300	**0.00533**	0.0173	0.000665	0.00101	0.0420	0.00186	0.155	0.00823	<0.000188
02/08/07	<0.00109	<0.00543	0.142	0.0128	<0.000109	0.00297	<0.000217	0.00150	0.00802	0.0156	0.0491	0.0174	<0.000217
09/26/08	<0.0971	<0.0971	<0.0971	<0.0971	<0.0971	<0.0971	<0.0971	<0.0971	<0.0971	<0.0971	<0.0971	<0.0971	<0.0971
08/19/09	<0.00513	<0.0256	0.0783 R12	0.157	<0.000513	0.0318 R1	0.0357 R1	0.0269 R1	0.311	0.0530 R1	0.673 R1	0.0992	0.0216
10/30/09	<0.00100	<0.00500	<0.00100	0.00507 R1	0.000684 R1	0.00124 R1	0.00133 R1	0.00166 R1	0.0104	0.00390 R1	0.0400 R1	0.00407	<0.000200
Field Point MW-3	**Well Screen Interval (feet):**	**24.20-44.20**											
07/24/06	<0.00106	<0.00106	0.127	0.0160	**0.00245**	0.000869	<0.000213	0.00131	0.0113	<0.000213	0.0772	0.00575	<0.000213
02/08/07	<0.00111	<0.00556	0.0914	0.00885	**0.00172**	0.00209	<0.000222	0.00121	0.00849	0.0136	0.0437	0.012	<0.000222
09/26/08	<0.0105	<0.0105	<0.0105	<0.0105	<0.0105	<0.0105	<0.0105	<0.0105	<0.0105	<0.0105	<0.0105	<0.0105	<0.0105
05/19/09	<0.0105	<0.0105	<0.0105	<0.0105	<0.0105	<0.0105	<0.0105	<0.0105	<0.0105	<0.0105	<0.0105	<0.0105	<0.0105
08/19/09	<0.00103	<0.00513	0.00966 R12	0.0234 R1	**0.00225 R1**	0.00490 R1	0.00422 R1	0.00416 R1	0.0461	0.00630 R1	0.0907 R1	0.00825	0.00271
10/30/09	<0.000990	<0.00495	0.00168 R12	0.00741 R1	0.000418 R1	0.00208 R1	0.00254 R1	0.00286 R1	0.0147	0.00554 R1	0.0537 R1	0.00478	<0.000198

TABLE 5
CUMULATIVE GROUNDWATER ANALYTICAL RESULTS FOR PAHs
Gladiola Station
Lea County, New Mexico
Cardno 3612

Date		Acenaphthene (mg/l)	Acenaphthylene (mg/l)	Anthracene (mg/l)	Benzo(a)anthracene (mg/l)	Benzo(a)pyrene (mg/l)	Benzo(b)fluoranthene (mg/l)	Benzo(g,h,i)perylene (mg/l)	Benzo(k)fluoranthene (mg/l)	Chrysene (mg/l)	Dibenz(a,h)anthracene (mg/l)	Fluoranthene (mg/l)	Fluorene (mg/l)	Indeno(1,2,3-cd)pyrene (mg/l)
NMED WQCC HHS		**NA**	**NA**	**NA**	**NA**	**0.0007**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**
Field Point MW-4	**Well Screen Interval (feet): 23.97-38.97**													
07/25/06		<0.000939	0.0026	<0.000939	<0.000188	<0.0000939	<0.0000939	<0.000188	<0.000131	<0.0000939	<0.000188	<0.000188	0.000947	<0.000188
02/07/07		<0.00104	<0.00521	<0.00104	<0.000208	<0.000104	<0.000104	<0.000208	<0.000146	<0.000104	<0.000208	0.0168	0.0023	<0.000208
04/15/08		<0.00990	<0.00990	<0.00990	<0.00990	<0.00990	<0.00990	<0.00990	<0.00990	<0.00990	<0.00990	<0.00990	<0.00990	<0.00990
09/26/08		<0.00980	<0.00980	<0.00980	<0.00980	<0.00980	<0.00980	<0.00980	<0.00980	<0.00980	<0.00980	<0.00980	<0.00980	<0.00980
05/19/09		<0.0526	<0.0526	<0.0526	<0.0526	<0.0526	<0.0526	<0.0526	<0.0526	<0.0526	<0.0526	<0.0526	<0.0526	<0.0526
08/19/09		<0.000971	<0.00485	<0.000971	<0.000194	<0.0000971	<0.0000971	<0.000194	<0.000136	0.00217	<0.000194	0.00365 R1	0.00126	0.000459 R1
10/30/09		<0.000990	<0.00495	<0.000990	0.0124 R1	<0.000099	0.00316 R1	0.00467 R1	0.00399 R1	0.00447	0.00919 R1	0.103 R1	0.0092	<0.000198
Field Point MW-5	**Well Screen Interval (feet): 27.19-47.19**													
07/20/06		<0.00472	0.00565	<0.000943	<0.000189	<0.0000943	<0.0000943	<0.000189	<0.000132	0.000356	<0.000189	0.00309	<0.000472	<0.000189
02/07/07		<0.00118	<0.00588	0.0113	<0.000235	<0.000118	<0.000118	<0.000235	<0.000165	<0.000118	<0.000235	0.00227	0.00233	<0.000235
04/15/08		<0.00990	<0.00990	<0.00990	<0.00990	<0.00990	<0.00990	<0.00990	<0.00990	<0.00990	<0.00990	<0.00990	<0.00990	<0.00990
09/26/08		<0.0962	<0.0962	<0.0962	<0.0962	<0.0962	<0.0962	<0.0962	<0.0962	<0.0962	<0.0962	<0.0962	<0.0962	<0.0962
05/19/09		<0.0526	<0.0526	<0.0526	<0.0526	<0.0526	<0.0526	<0.0526	<0.0526	<0.0526	<0.0526	<0.0526	<0.0526	<0.0526
08/19/09		<0.000971	<0.00485	<0.000971	<0.000194	<0.0000971	<0.0000971	<0.000194	<0.000136	0.000639	<0.000194	0.00253 R1	0.00241	<0.000194
08/19/09	D	<0.000980	<0.00490	<0.000980	<0.000196	<0.0000980	0.000191 R1	<0.000196	<0.000137	0.000994	<0.000196	0.00269 R1	0.00206 R1	<0.000196
10/30/09		<0.00102	<0.00510	<0.00102	<0.000204	<0.000102	<0.000102	<0.000204	<0.000143	0.000313	<0.000204	0.00349 R1	0.00213	<0.000204
10/12/11		0.000367	0.000178	0.000144	0.000122	0.000111	<0.000111	<0.000111	<0.000111	<0.000111	<0.000111	<0.000111	0.00167	<0.000111
07/17/12		<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	0.00202	<0.00190
07/17/12	D	<0.00190	<0.00190	0.00214	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	0.00218	<0.00190	<0.00190
10/03/12		<0.00196	<0.00196	<0.00196	<0.00196	<0.00196	<0.00196	<0.00196	<0.00196	<0.00196	<0.00196	<0.00196	0.00253	<0.00196
10/03/12	D	<0.00189	<0.00189	<0.00189	<0.00189	<0.00189	<0.00189	<0.00189	<0.00189	<0.00189	<0.00189	<0.00189	0.00249	<0.00189

TABLE 5
CUMULATIVE GROUNDWATER ANALYTICAL RESULTS FOR PAHs
Gladiola Station
Lea County, New Mexico
Cardno 3612

Date	Acenaphthene (mg/l)	Acenaphthylene (mg/l)	Anthracene (mg/l)	Benzo(a)anthracene (mg/l)	Benzo(a)pyrene (mg/l)	Benzo(b)fluoranthene (mg/l)	Benzo(g,h,i)perylene (mg/l)	Benzo(k)fluoranthene (mg/l)	Chrysene (mg/l)	Dibenz(a,h)anthracene (mg/l)	Fluoranthene (mg/l)	Fluorene (mg/l)	Indeno(1,2,3-cd)pyrene (mg/l)
NMED WQCC HHS	**NA**	**NA**	**NA**	**NA**	**0.0007**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**
Field Point MW-6	**Well Screen Interval (feet): 27.05-42.05**												
07/21/06	<0.00467	<0.000943	<0.000943	<0.000189	<0.0000943	<0.0000943	<0.000189	<0.000132	<0.0000943	<0.000189	<0.000189	<0.000472	<0.000189
02/07/07	<0.00111	<0.00556	<0.00111	<0.000222	<0.000111	<0.000111	<0.000222	<0.000156	<0.000111	<0.000222	<0.000222	0.000637	<0.000222
04/15/08	<0.00990	<0.00990	<0.00990	<0.00990	<0.00990	<0.00990	<0.00990	<0.00990	<0.00990	<0.00990	<0.00990	<0.00990	<0.00990
09/26/08	<0.00943	<0.0962	<0.0962	<0.0962	<0.0962	<0.0962	<0.0962	<0.0962	<0.0962	<0.0962	<0.0962	<0.0962	<0.0962
05/18/09	<0.00952	<0.00952	<0.00952	<0.00952	<0.00952	<0.00952	<0.00952	<0.00952	<0.00952	<0.00952	<0.00952	<0.00952	<0.00952
08/19/09	<0.00100	<0.00500	<0.00100	<0.000200	<0.000100	<0.000100	<0.000200	<0.000140	<0.000100	<0.000200	<0.000200	<0.000500	<0.000200
11/19/09	<0.000980	<0.00490	<0.000980	<0.000196	<0.0000980	<0.0000980	<0.000196	<0.000137	<0.0000980	<0.000196	<0.000196	<0.000490	<0.000196
10/13/11	<0.0000962	<0.0000962	<0.0000962	<0.0000962	<0.0000962	<0.0000962	<0.0000962	<0.0000962	<0.0000962	<0.0000962	<0.0000962	<0.0000962	<0.0000962
07/17/12	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190
10/03/12	<0.00189	<0.00189	<0.00189	<0.00189	<0.00189	<0.00189	<0.00189	<0.00189	<0.00189	<0.00189	<0.00189	0.00189	<0.00189
05/15/13	<0.0000187	<0.0000374	<0.0000187	<0.0000187	<0.0000187	<0.0000187	<0.000028	<0.0000187	<0.0000187	<0.0000187	<0.0000374	0.0002	<0.0000187
01/28/14	0.0000215 J	<0.0000282	<0.0000282	<0.0000188	<0.0000188	<0.0000188	<0.0000188	<0.0000188	<0.0000188	<0.0000188	<0.0000282	0.000178	<0.0000188
06/18/14	0.0000949	<0.0000284	<0.0000284	<0.000019	<0.000019	<0.000019	<0.000019	<0.000019	<0.000019	<0.000019	<0.0000284	0.0000517 J	<0.000019
11/19/14	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	0.00014	<0.0001
12/08/15	<0.0000952	<0.0000952	<0.0000952	<0.0000952	<0.0000952	<0.0000952	<0.0000952	<0.0000952	<0.0000952	<0.0000952	<0.0000952	0.000168	<0.0000952
04/26/16	<0.0000952	<0.0000952	<0.0000952	<0.0000952	<0.0000952	<0.0000952	<0.0000952	<0.0000952	<0.0000952	<0.0000952	<0.0000952	0.000101	<0.0000952
05/24/17	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019
11/29/17	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	0.00017 J	<0.00019
Field Point MW-7	**Well Screen Interval (feet): 24.35-39.35**												
07/25/06	<0.000939	<0.000939	<0.000939	<0.000188	<0.0000939	<0.0000939	<0.000188	<0.000131	<0.0000939	<0.000188	<0.000188	<0.000469	<0.000188
02/07/07	<0.00109	<0.00543	<0.00109	<0.000217	<0.000109	<0.000109	<0.000217	<0.000152	<0.000109	<0.000217	<0.000217	0.000772	<0.000217

TABLE 5
CUMULATIVE GROUNDWATER ANALYTICAL RESULTS FOR PAHs
Gladiola Station
Lea County, New Mexico
Cardno 3612

Date	Acenaphthene (mg/l)	Acenaphthylene (mg/l)	Anthracene (mg/l)	Benzo(a)anthracene (mg/l)	Benzo(a)pyrene (mg/l)	Benzo(b)fluoranthene (mg/l)	Benzo(g,h,i)perylene (mg/l)	Benzo(k)fluoranthene (mg/l)	Chrysene (mg/l)	Dibenz(a,h)anthracene (mg/l)	Fluoranthene (mg/l)	Fluorene (mg/l)	Indeno(1,2,3-cd)pyrene (mg/l)
NMED WQCC HHS	**NA**	**NA**	**NA**	**NA**	**0.0007**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**
Field Point MW-7	**Well Screen Interval (feet): 24.35-39.35**												
04/15/08	<0.00971	<0.00971	<0.00971	<0.00971	<0.00971	<0.00971	<0.00971	<0.00971	<0.00971	<0.00971	<0.00971	<0.00971	<0.00971
09/26/08	<0.00943	<0.00943	<0.00943	<0.00943	<0.00943	<0.00943	<0.00943	<0.00943	<0.00943	<0.00943	<0.00943	<0.00943	<0.00943
05/18/09	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100
08/19/09	<0.00100	<0.00500	<0.00100	<0.000200	<0.000100	<0.000100	<0.000200	<0.000140	<0.000100	<0.000200	<0.000200	0.00135	<0.000200
10/30/09	<0.00100	<0.00500	<0.00100	<0.000200	<0.000100	<0.000100	<0.000200	<0.000140	<0.000100	<0.000200	<0.000200	0.00149	<0.000200
10/13/11	0.000116	<0.000105	<0.000105	<0.000105	<0.000105	<0.000105	<0.000105	<0.000105	<0.000105	<0.000105	<0.000105	0.000547	<0.000105
Field Point MW-8	**Well Screen Interval (feet): 23.05-38.05**												
07/25/06	<0.000939	<0.000939	<0.000939	<0.000188	<0.0000939	<0.0000939	<0.000188	<0.000131	<0.0000939	<0.000188	<0.000188	<0.000469	<0.000188
02/07/07	<0.00104	<0.00521	<0.00104	<0.000208	<0.000104	<0.000104	<0.000208	<0.000146	<0.000104	<0.000208	<0.000208	<0.000521	<0.000208
04/15/08	<0.00962	<0.00962	<0.00962	<0.00962	<0.00962	<0.00962	<0.00962	<0.00962	<0.00962	<0.00962	<0.00962	<0.00962	<0.00962
09/26/08	<0.00980	<0.00980	<0.00980	<0.00980	<0.00980	<0.00980	<0.00980	<0.00980	<0.00980	<0.00980	<0.00980	<0.00980	<0.00980
05/18/09	<0.00952	<0.00952	<0.00952	<0.00952	<0.00952	<0.00952	<0.00952	<0.00952	<0.00952	<0.00952	<0.00952	<0.00952	<0.00952
08/19/09	<0.00103	<0.00513	<0.00103	<0.000205	<0.000103	<0.000103	<0.000205	<0.000144	<0.000103	<0.000205	<0.000205	0.00101	<0.000205
10/30/09	<0.00100	<0.00500	<0.00100	>0.000200	<0.000100	0.0001	<0.000200	<0.000140	<0.000100	<0.000200	<0.000200	0.0012	<0.000200
Field Point MW-9	**Well Screen Interval (feet): 27.64-42.64**												
07/21/06	<0.00099	0.001	<0.00099	<0.000198	<0.00099	<0.00099	<0.000198	<0.000139	<0.00099	0.000198	<0.000198	<0.000495	<0.000198
02/06/07	<0.00104	<0.00521	<0.00104	<0.000208	<0.000104	<0.000104	<0.000208	<0.000146	<0.000104	<0.000208	<0.000208	<0.000521	<0.000208
04/15/08	<0.00971	<0.00971	<0.00971	<0.00971	<0.00971	<0.00971	<0.00971	<0.00971	<0.00971	<0.00971	<0.00971	<0.00971	<0.00971
09/26/08	<0.00962	<0.00962	<0.00962	<0.00962	<0.00962	<0.00962	<0.00962	<0.00962	<0.00962	<0.00962	<0.00962	<0.00962	<0.00962
05/18/09	<0.00952	<0.00952	<0.00952	<0.00952	<0.00952	<0.00952	<0.00952	<0.00952	<0.00952	<0.00952	<0.00952	<0.00952	<0.00952

TABLE 5
CUMULATIVE GROUNDWATER ANALYTICAL RESULTS FOR PAHs
Gladiola Station
Lea County, New Mexico
Cardno 3612

Date		Acenaphthene (mg/l)	Acenaphthylene (mg/l)	Anthracene (mg/l)	Benzo(a)anthracene (mg/l)	Benzo(a)pyrene (mg/l)	Benzo(b)fluoranthene (mg/l)	Benzo(g,h,i)perylene (mg/l)	Benzo(k)fluoranthene (mg/l)	Chrysene (mg/l)	Dibenz(a,h)anthracene (mg/l)	Fluoranthene (mg/l)	Fluorene (mg/l)	Indeno(1,2,3-cd)pyrene (mg/l)
NMED WQCC HHS		**NA**	**NA**	**NA**	**NA**	**0.0007**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**
Field Point MW-9	**Well Screen Interval (feet): 27.64-42.64**													
08/19/09		<0.000971	<0.00485	<0.000971	<0.000194	<0.0000971	<0.0000971	<0.000194	<0.000136	<0.0000971	<0.000194	<0.000194	<0.000485	<0.000194
10/30/09		<0.00100	<0.00500	<0.00100	<0.000200	<0.000100	<0.000100	<0.000200	<0.000140	<0.000100	<0.000200	<0.000200	<0.000500	<0.000200
10/13/11		<0.0000952	<0.0000952	<0.0000952	<0.0000952	<0.0000952	<0.0000952	<0.0000952	<0.0000952	<0.0000952	<0.0000952	<0.0000952	0.000476	<0.0000952
02/22/12		<0.0000952	<0.0000952	<0.0000952	<0.0000952	<0.0000952	<0.0000952	<0.0000952	<0.0000952	<0.0000952	<0.0000952	<0.0000952	0.000295	<0.0000952
07/17/12		<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190
10/03/12		0.017	0.00713	<0.00377	0.0271	<0.00377	<0.00377	<0.00377	<0.00377	<0.00377	<0.00377	0.005	0.0768	<0.00377
Field Point MW-10	**Well Screen Interval (feet): 28.08-43.08**													
07/21/06		0.001	0.001	0.001	<0.000200	<0.0001	<0.0001	<0.000200	<0.00014	<0.0001	<0.000200	<0.000200	0.000892	<0.000200
02/06/07		<0.00110	<0.00549	<0.00110	<0.000220	<0.000110	<0.000110	<0.000220	<0.000154	<0.000110	<0.000220	<0.000220	0.000831	<0.000220
04/15/08		<0.00971	<0.00971	<0.00971	<0.00971	<0.00971	<0.00971	<0.00971	<0.00971	<0.00971	<0.00971	<0.00971	<0.00971	<0.00971
09/26/08		<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100
05/18/09		<0.00952	<0.00952	<0.00952	<0.00952	<0.00952	<0.00952	<0.00952	<0.00952	<0.00952	<0.00952	<0.00952	<0.00952	<0.00952
08/19/09		<0.000980	<0.00490	<0.000980	<0.000196	<0.0000980	<0.0000980	<0.000196	<0.000137	<0.0000980	<0.000196	<0.000196	<0.000490	<0.000196
11/19/09		<0.00105	<0.00526	<0.00105	<0.000211	<0.000105	<0.000105	<0.000211	<0.000147	<0.000105	<0.000211	<0.000211	0.000683	<0.000211
10/13/11		<0.0000943	<0.0000943	<0.0000943	<0.0000943	<0.0000943	<0.0000943	<0.0000943	<0.0000943	<0.0000943	<0.0000943	<0.0000943	0.000104	<0.0000943
07/17/12		<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190
10/03/12		<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190
05/15/13		<0.0000187	<0.0000374	<0.0000187	<0.0000187	<0.0000187	<0.0000187	<0.000028	<0.0000187	<0.0000187	<0.0000187	<0.0000374	0.00021	<0.0000187
05/15/13	D	0.0000462 J	<0.0000374	0.000024 J	<0.0000187	<0.0000187	<0.0000187	<0.000028	<0.0000187	<0.0000187	<0.0000187	<0.0000374	0.00033	<0.0000187
01/29/14		0.0000594 J	<0.0000282	<0.0000282	<0.0000188	<0.0000188	<0.0000188	<0.0000188	<0.0000188	<0.0000188	<0.0000188	<0.0000282	0.000258	<0.0000188
11/19/14		<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	0.00021	<0.0001

TABLE 5
CUMULATIVE GROUNDWATER ANALYTICAL RESULTS FOR PAHs
Gladiola Station
Lea County, New Mexico
Cardno 3612

Date	Acenaphthene (mg/l)	Acenaphthylene (mg/l)	Anthracene (mg/l)	Benzo(a)anthracene (mg/l)	Benzo(a)pyrene (mg/l)	Benzo(b)fluoranthene (mg/l)	Benzo(g,h,i)perylene (mg/l)	Benzo(k)fluoranthene (mg/l)	Chrysene (mg/l)	Dibenz(a,h)anthracene (mg/l)	Fluoranthene (mg/l)	Fluorene (mg/l)	Indeno(1,2,3-cd)pyrene (mg/l)
NMED WQCC HHS	**NA**	**NA**	**NA**	**NA**	**0.0007**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**
Field Point MW-10 **Well Screen Interval (feet): 28.08-43.08**													
11/19/14 D	<0.000094	<0.000094	<0.000094	<0.000094	<0.000094	<0.000094	<0.000094	<0.000094	<0.000094	<0.000094	<0.000094	0.00021	<0.000094
05/24/17	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019
11/29/17	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019
Field Point MW-11 **Well Screen Interval (feet): 29.00-44.00**													
04/30/08	<0.00971	<0.00971	<0.00971	<0.00971	<0.00971	<0.00971	<0.00971	<0.00971	<0.00971	<0.00971	<0.00971	<0.00971	<0.00971
09/26/08	<0.00962	<0.00962	<0.00962	<0.00962	<0.00962	<0.00962	<0.00962	<0.00962	<0.00962	<0.00962	<0.00962	<0.00962	<0.00962
05/18/09	<0.00943	<0.00943	<0.00943	<0.00943	<0.00943	<0.00943	<0.00943	<0.00943	<0.00943	<0.00943	<0.00943	<0.00943	<0.00943
08/19/09	<0.00100	<0.00500	<0.00100	<0.000200	<0.000100	<0.000100	<0.000200	<0.000140	<0.000100	<0.000200	<0.000200	<0.000500	<0.000200
10/30/09	<0.000990	<0.00495	<0.000990	<0.000198	<0.000099	<0.000099	<0.000198	<0.000139	<0.000099	<0.000198	<0.000198	<0.000495	<0.000198
10/13/11	<0.000099	<0.000099	<0.000099	<0.000099	<0.000099	<0.000099	<0.000099	<0.000099	<0.000099	<0.000099	<0.000099	0.000109	<0.000099
07/17/12	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190
10/03/12	<0.00194	<0.00194	<0.00194	<0.00194	<0.00194	<0.00194	<0.00194	<0.00194	<0.00194	<0.00194	<0.00194	<0.00194	<0.00194
05/15/13	<0.0000187	<0.0000374	<0.0000187	<0.0000187	<0.0000187	<0.0000187	<0.000028	<0.0000187	<0.0000187	<0.0000187	<0.0000374	<0.0000187	<0.0000187
01/28/14	<0.0000188	<0.0000282	<0.0000282	<0.0000188	<0.0000188	<0.0000188	<0.0000188	<0.0000188	<0.0000188	<0.0000188	<0.0000282	<0.0000188	<0.0000188
06/18/14	<0.0000191	<0.0000287	<0.0000287	<0.0000191	<0.0000191	<0.0000191	<0.0000191	<0.0000191	<0.0000191	<0.0000191	<0.0000287	<0.0000191	<0.0000191
11/19/14	<0.000095	<0.000095	<0.000095	<0.000095	<0.000095	<0.000095	<0.000095	<0.000095	<0.000095	<0.000095	<0.000095	<0.000095	<0.000095
12/08/15	<0.0000952	<0.0000952	<0.0000952	<0.0000952	<0.0000952	<0.0000952	<0.0000952	<0.0000952	<0.0000952	<0.0000952	<0.0000952	<0.0000952	<0.0000952
04/27/16	<0.0000939	<0.0000939	<0.0000939	<0.0000939	<0.0000939	<0.0000939	<0.0000939	<0.0000939	<0.0000939	<0.0000939	<0.0000939	<0.0000939	<0.0000939
10/25/16	<0.0000935	<0.0000935	<0.0000935	<0.0000935	<0.0000935	<0.0000935	<0.0000935	<0.0000935	<0.0000935	<0.0000935	<0.0000935	<0.0000935	<0.0000935
05/24/17	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019
11/29/17	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	0.00015 J	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	0.00022	<0.00019

TABLE 5
CUMULATIVE GROUNDWATER ANALYTICAL RESULTS FOR PAHs
Gladiola Station
Lea County, New Mexico
Cardno 3612

Date	Acenaphthene (mg/l)	Acenaphthylene (mg/l)	Anthracene (mg/l)	Benzo(a)anthracene (mg/l)	Benzo(a)pyrene (mg/l)	Benzo(b)fluoranthene (mg/l)	Benzo(g,h,i)perylene (mg/l)	Benzo(k)fluoranthene (mg/l)	Chrysene (mg/l)	Dibenz(a,h)anthracene (mg/l)	Fluoranthene (mg/l)	Fluorene (mg/l)	Indeno(1,2,3-cd)pyrene (mg/l)
NMED WQCC HHS	**NA**	**NA**	**NA**	**NA**	**0.0007**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**
Field Point MW-12	**Well Screen Interval (feet): 30.00-45.00**												
04/30/08	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
09/26/08	<0.00943	<0.00943	<0.00943	<0.00943	<0.00943	<0.00943	<0.00943	<0.00943	<0.00943	<0.00943	<0.00943	<0.00943	<0.00943
05/19/09	<0.00952	<0.00952	<0.00952	<0.00952	<0.00952	<0.00952	<0.00952	<0.00952	<0.00952	<0.00952	<0.00952	<0.00952	<0.00952
08/19/09	<0.00100	<0.00500	<0.00100	<0.000200	<0.000100	<0.000100	<0.000200	<0.000140	0.000145	<0.000200	0.00136 R1	0.00203	<0.000200
10/30/09	<0.00102	<0.00510	<0.00102	<0.000204	<0.000102	<0.000102	<0.000204	<0.000143	<0.000102	<0.000204	0.00270 R1	0.00169	<0.000204
10/13/11	0.000337	0.000149	<0.000099	<0.000099	<0.000099	<0.000099	<0.000099	<0.000099	<0.000099	<0.000099	<0.000099	0.00197	<0.000099
02/22/12	0.000123	0.0000943	<0.0000943	<0.0000943	<0.0000943	<0.0000943	<0.0000943	<0.0000943	<0.0000943	<0.0000943	<0.0000943	0.00115	<0.0000943
07/17/12	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
10/03/12	<0.00189	<0.00189	<0.00189	<0.00189	<0.00189	<0.00189	<0.00189	<0.00189	<0.00189	<0.00189	<0.00189	0.00189	<0.00189
Field Point MW-13	**Well Screen Interval (feet): 30.00-45.00**												
04/30/08	<0.00971	<0.00971	<0.00971	<0.00971	<0.00971	<0.00971	<0.00971	<0.00971	<0.00971	<0.00971	<0.00971	<0.00971	<0.00971
09/26/08	<0.0980	<0.0980	<0.0980	<0.0980	<0.0980	<0.0980	<0.0980	<0.0980	<0.0980	<0.0980	<0.0980	<0.0980	<0.0980
05/19/09	<0.0476	<0.0476	<0.0476	<0.0476	<0.0476	<0.0476	<0.0476	<0.0476	<0.0476	<0.0476	<0.0476	<0.0476	<0.0476
08/19/09	<0.00103	<0.00513	0.00152 R12	<0.000205	<0.000103	0.000578	0.000915 R1	<0.000144	0.00515	<0.000205	0.0118 R1	0.00424	<0.000205
10/30/09	<0.000971	<0.00485	<0.000971	0.00309 R1	<0.0000971	0.000598 R1	0.00123 R1	<0.000136	0.00642	0.00300 R1	0.0247 R1	0.00331	<0.000194
Field Point MW-14	**Well Screen Interval (feet): 27.00-42.00**												
04/30/08	<0.00971	<0.00971	<0.00971	<0.00971	<0.00971	<0.00971	<0.00971	<0.00971	<0.00971	<0.00971	<0.00971	<0.00971	<0.00971
09/26/08	<0.00980	<0.00980	<0.00980	<0.00980	<0.00980	<0.00980	<0.00980	<0.00980	<0.00980	<0.00980	<0.00980	<0.00980	<0.00980
05/19/09	<0.00952	<0.00952	<0.00952	<0.00952	<0.00952	<0.00952	<0.00952	<0.00952	<0.00952	<0.00952	<0.00952	<0.00952	<0.00952
08/19/09	<0.000971	<0.00485	<0.000971	<0.000194	<0.0000971	<0.0000971	<0.000194	<0.000136	<0.0000971	<0.000194	<0.000194	0.000797	<0.000194

TABLE 5
CUMULATIVE GROUNDWATER ANALYTICAL RESULTS FOR PAHs
Gladiola Station
Lea County, New Mexico
Cardno 3612

Date	Acenaphthene (mg/l)	Acenaphthylene (mg/l)	Anthracene (mg/l)	Benzo(a)anthracene (mg/l)	Benzo(a)pyrene (mg/l)	Benzo(b)fluoranthene (mg/l)	Benzo(g,h,i)perylene (mg/l)	Benzo(k)fluoranthene (mg/l)	Chrysene (mg/l)	Dibenz(a,h)anthracene (mg/l)	Fluoranthene (mg/l)	Fluorene (mg/l)	Indeno(1,2,3-cd)pyrene (mg/l)
NMED WQCC HHS	**NA**	**NA**	**NA**	**NA**	**0.0007**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**
Field Point MW-14	**Well Screen Interval (feet): 27.00-42.00**												
10/30/09	<0.00100	<0.00500	<0.00100	<0.000200	0.000172	<0.000100	<0.000200	<0.000140	<0.000100	<0.000200	0.00165 R1	0.00123	<0.000200
10/13/11	0.0002	<0.0000952	0.000429	<0.0000952	<0.0000952	<0.0000952	<0.0000952	<0.0000952	<0.0000952	<0.0000952	<0.0000952	0.00114	<0.0000952
02/22/12	0.000222	<0.000111	<0.000111	<0.000111	<0.000111	<0.000111	<0.000111	<0.000111	<0.000111	<0.000111	<0.000111	0.0013	<0.000111
07/17/12	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190
10/03/12	<0.00189	<0.00189	<0.00189	<0.00189	<0.00189	<0.00189	<0.00189	<0.00189	<0.00189	<0.00189	<0.00189	0.00189	<0.00189
Field Point MW-15	**Well Screen Interval (feet): 29.00-44.00**												
04/30/08	<0.00971	<0.00971	<0.00971	<0.00971	<0.00971	<0.00971	<0.00971	<0.00971	<0.00971	<0.00971	<0.00971	<0.00971	<0.00971
09/26/08	<0.00980	<0.00980	<0.00980	<0.00980	<0.00980	<0.00980	<0.00980	<0.00980	<0.00980	<0.00980	<0.00980	<0.00980	<0.00980
05/19/09	<0.0105	<0.0105	<0.0105	<0.0105	<0.0105	<0.0105	<0.0105	<0.0105	<0.0105	<0.0105	<0.0105	<0.0105	<0.0105
08/19/09	<0.00103	<0.00513	<0.00103	<0.000205	<0.000103	<0.000103	<0.000205	<0.000144	0.000857	<0.000205	0.00315 R1	0.00229	<0.000205
10/30/09	<0.000980	<0.00490	<0.000980	0.00384 R1	<0.000098	0.000723 R1	0.00128 R1	0.00191 R1	0.00786	0.00345 R1	0.0300 R1	0.00380	<0.000196
Field Point MW-16	**Well Screen Interval (feet): 26.50-41.50**												
04/30/08	<0.0103	<0.0103	<0.0103	<0.0103	<0.0103	<0.0103	<0.0103	<0.0103	<0.0103	<0.0103	<0.0103	<0.0103	<0.0103
09/26/08	<0.00943	<0.00943	<0.00943	<0.00943	<0.00943	<0.00943	<0.00943	<0.00943	<0.00943	<0.00943	<0.00943	<0.00943	<0.00943
05/18/09	<0.00943	<0.00943	<0.00943	<0.00943	<0.00943	<0.00943	<0.00943	<0.00943	<0.00943	<0.00943	<0.00943	<0.00943	<0.00943
08/19/09	<0.00103	<0.00513	<0.00103	<0.000205	<0.000103	<0.000103	<0.000205	<0.000144	<0.000103	<0.000205	<0.000205	0.00109	<0.000205
10/13/11	0.000238	<0.0000952	<0.0000952	<0.0000952	<0.0000952	<0.0000952	<0.0000952	<0.0000952	<0.0000952	<0.0000952	<0.0000952	0.0017	<0.0000952
02/22/12	0.000217	<0.0000943	<0.0000943	<0.0000943	<0.0000943	<0.0000943	<0.0000943	<0.0000943	<0.0000943	<0.0000943	<0.0000943	0.00153	<0.0000943
07/17/12	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190
10/03/12	<0.00189	<0.00189	<0.00189	<0.00189	<0.00189	<0.00189	<0.00189	<0.00189	<0.00189	<0.00189	<0.00189	0.00189	<0.00189

TABLE 5
CUMULATIVE GROUNDWATER ANALYTICAL RESULTS FOR PAHs
Gladiola Station
Lea County, New Mexico
Cardno 3612

Date	Acenaphthene (mg/l)	Acenaphthylene (mg/l)	Anthracene (mg/l)	Benzo(a)anthracene (mg/l)	Benzo(a)pyrene (mg/l)	Benzo(b)fluoranthene (mg/l)	Benzo(g,h,i)perylene (mg/l)	Benzo(k)fluoranthene (mg/l)	Chrysene (mg/l)	Dibenz(a,h)anthracene (mg/l)	Fluoranthene (mg/l)	Fluorene (mg/l)	Indeno(1,2,3-cd)pyrene (mg/l)
NMED WQCC HHS	**NA**	**NA**	**NA**	**NA**	**0.0007**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**
Field Point MW-17	**Well Screen Interval (feet): 29.50-44.50**												
08/19/09	<0.00100	<0.00500	<0.00100	<0.000200	<0.000100	<0.000100	<0.000200	<0.000140	<0.000100	<0.000200	0.000315	0.00144	<0.000200
10/30/09	<0.00100	<0.00500	<0.00100	<0.000200	**0.000774 R1**	<0.000100	<0.000200	<0.000140	<0.000100	<0.000200	0.00290 R1	0.00180	<0.000200
10/13/11	0.000307	0.000515	0.0016	<0.000099	<0.000099	<0.000099	<0.000099	<0.000099	<0.000099	<0.000099	<0.000099	0.00178	<0.000099
07/17/12	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190
10/03/12	<0.00189	<0.00189	<0.00189	<0.00189	<0.00189	<0.00189	<0.00189	<0.00189	<0.00189	<0.00189	<0.00189	<0.00189	<0.00189
11/29/17	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	0.0016	<0.00019
Field Point MW-18	**Well Screen Interval (feet): 27.00-42.00**												
08/19/09	<0.00100	<0.00500	<0.00100	<0.000200	<0.000100	<0.000100	<0.000200	<0.000140	<0.000100	<0.000200	0.000423	0.00120	<0.000200
10/30/09	<0.00100	<0.00500	<0.00100	<0.000200	<0.000100	<0.000100	<0.000200	<0.000140	0.000767 R1	<0.000200	0.00281 R1	0.00202	<0.000200
10/13/11	0.000467	0.000133	0.000114	<0.0000952	<0.0000952	<0.0000952	<0.0000952	<0.0000952	0.000143	<0.0000952	<0.0000952	0.00239	<0.0000952
Field Point MW-19	**Well Screen Interval (feet): 27.00-42.00**												
08/19/09	<0.00100	<0.00500	<0.00100	<0.000200	<0.000100	<0.000100	<0.000200	<0.000140	<0.000100	<0.000200	<0.000200	<0.000500	<0.000200
10/30/09	<0.00102	<0.00510	<0.00102	<0.000204	<0.000102	<0.000102	<0.000204	<0.000143	<0.000102	<0.000204	<0.000204	<0.000510	<0.000204
10/13/11	<0.0000971	<0.0000971	<0.0000971	<0.0000971	<0.0000971	<0.0000971	<0.0000971	<0.0000971	<0.0000971	<0.0000971	<0.0000971	<0.0000971	<0.0000971
07/17/12	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190
10/03/12	<0.00189	<0.00189	<0.00189	<0.00189	<0.00189	<0.00189	<0.00189	<0.00189	<0.00189	<0.00189	<0.00189	0.00189	<0.00189
05/15/13	<0.0000189	<0.0000377	<0.0000189	<0.0000189	<0.0000189	<0.0000189	<0.0000283	<0.0000189	<0.0000189	<0.0000189	<0.0000377	<0.0000189	<0.0000189
01/29/14	<0.0000188	<0.0000282	<0.0000282	<0.0000188	<0.0000188	<0.0000188	<0.0000188	<0.0000188	<0.0000188	<0.0000188	<0.0000282	<0.0000188	<0.0000188
06/18/14	<0.00002	<0.00003	<0.00003	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00003	<0.00002	<0.00002
11/18/14	<0.000096	<0.000096	<0.000096	<0.000096	<0.000096	<0.000096	<0.000096	<0.000096	<0.000096	<0.000096	<0.000096	<0.000096	<0.000096

TABLE 5
CUMULATIVE GROUNDWATER ANALYTICAL RESULTS FOR PAHs
Gladiola Station
Lea County, New Mexico
Cardno 3612

Date	Acenaphthene (mg/l)	Acenaphthylene (mg/l)	Anthracene (mg/l)	Benzo(a)anthracene (mg/l)	Benzo(a)pyrene (mg/l)	Benzo(b)fluoranthene (mg/l)	Benzo(g,h,i)perylene (mg/l)	Benzo(k)fluoranthene (mg/l)	Chrysene (mg/l)	Dibenz(a,h)anthracene (mg/l)	Fluoranthene (mg/l)	Fluorene (mg/l)	Indeno(1,2,3-cd)pyrene (mg/l)
NMED WQCC HHS	**NA**	**NA**	**NA**	**NA**	**0.0007**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**
Field Point MW-19 **Well Screen Interval (feet): 27.00-42.00**													
12/09/15	<0.0000952	<0.0000952	<0.0000952	<0.0000952	<0.0000952	<0.0000952	<0.0000952	<0.0000952	<0.0000952	<0.0000952	<0.0000952	0.000153	<0.0000952
04/27/16	<0.0000939	<0.0000939	<0.0000939	<0.0000939	<0.0000939	<0.0000939	<0.0000939	<0.0000939	<0.0000939	<0.0000939	<0.0000939	0.000198	<0.0000939
10/25/16	<0.0000935	<0.0000935	<0.0000935	<0.0000935	<0.0000935	<0.0000935	<0.0000935	<0.0000935	<0.0000935	<0.0000935	<0.0000935	<0.0000935	<0.0000935
05/24/17	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019
11/29/17	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	0.00068	<0.00019
Field Point MW-20 **Well Screen Interval (feet): 29.50-44.50**													
08/19/09	<0.000971	<0.00485	<0.000971	<0.000194	<0.0000971	<0.0000971	<0.000194	<0.000136	<0.0000971	<0.000194	<0.000194	<0.000485	<0.000194
10/30/09	<0.000952	<0.00476	<0.000952	<0.000190	<0.0000952	<0.0000952	<0.000190	<0.000133	<0.0000952	<0.000190	<0.000190	<0.000476	<0.000190
10/13/11	<0.000099	<0.000099	<0.000099	<0.000099	<0.000099	<0.000099	<0.000099	<0.000099	<0.000099	<0.000099	<0.000099	<0.000099	<0.000099
02/22/12	<0.0000943	<0.0000943	<0.0000943	<0.0000943	<0.0000943	<0.0000943	<0.0000943	<0.0000943	<0.0000943	<0.0000943	<0.0000943	<0.0000943	<0.0000943
07/17/12	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190
10/03/12	<0.00189	<0.00189	<0.00189	<0.00189	<0.00189	<0.00189	<0.00189	<0.00189	<0.00189	<0.00189	<0.00189	<0.00189	<0.00189
05/15/13	<0.0000187	<0.0000374	<0.0000187	<0.0000187	<0.0000187	<0.0000187	<0.000028	<0.0000187	<0.0000187	<0.0000187	<0.0000374	<0.0000187	<0.0000187
01/29/14	<0.0000188	<0.0000282	<0.0000282	<0.0000188	<0.0000188	<0.0000188	<0.0000188	<0.0000188	<0.0000188	<0.0000188	<0.0000282	<0.0000188	<0.0000188
06/18/14	<0.0000192	<0.0000288	<0.0000288	<0.0000192	<0.0000192	<0.0000192	<0.0000192	<0.0000192	<0.0000192	<0.0000192	<0.0000288	<0.0000192	<0.0000192
11/18/14	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Field Point MW-21 **Well Screen Interval (feet): 29.50-44.50**													
08/19/09	<0.000980	<0.00490	<0.000980	<0.000196	<0.0000980	<0.0000980	<0.000196	<0.000137	<0.0000980	<0.000196	<0.000196	<0.000490	<0.000196
10/30/09	<0.00100	<0.00500	<0.00100	<0.000200	<0.000100	<0.000100	<0.000200	<0.000140	<0.000100	<0.000200	<0.000200	<0.000500	<0.000200
10/13/11	<0.000099	<0.000099	<0.000099	<0.000099	<0.000099	<0.000099	<0.000099	<0.000099	<0.000099	<0.000099	<0.000099	<0.000099	<0.000099

TABLE 5
CUMULATIVE GROUNDWATER ANALYTICAL RESULTS FOR PAHs
Gladiola Station
Lea County, New Mexico
Cardno 3612

Date	Acenaphthene (mg/l)	Acenaphthylene (mg/l)	Anthracene (mg/l)	Benzo(a)anthracene (mg/l)	Benzo(a)pyrene (mg/l)	Benzo(b)fluoranthene (mg/l)	Benzo(g,h,i)perylene (mg/l)	Benzo(k)fluoranthene (mg/l)	Chrysene (mg/l)	Dibenz(a,h)anthracene (mg/l)	Fluoranthene (mg/l)	Fluorene (mg/l)	Indeno(1,2,3-cd)pyrene (mg/l)
NMED WQCC HHS	**NA**	**NA**	**NA**	**NA**	**0.0007**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**
Field Point MW-21	**Well Screen Interval (feet): 29.50-44.50**												
07/17/12	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190
10/03/12	<0.00189	<0.00189	<0.00189	<0.00189	<0.00189	<0.00189	<0.00189	<0.00189	<0.00189	<0.00189	<0.00189	0.00189	<0.00189
05/15/13	<0.0000189	<0.0000377	<0.0000189	<0.0000189	<0.0000189	<0.0000189	<0.0000283	<0.0000189	<0.0000189	<0.0000189	<0.0000377	<0.0000189	<0.0000189
01/29/14	<0.0000188	<0.0000282	<0.0000282	<0.0000188	<0.0000188	<0.0000188	<0.0000188	<0.0000188	<0.0000188	<0.0000188	<0.0000282	<0.0000188	<0.0000188
06/18/14	<0.0000190	<0.0000284	<0.0000284	<0.0000190	<0.0000190	<0.0000190	<0.0000190	<0.0000190	<0.0000190	<0.0000190	<0.0000284	<0.0000190	<0.0000190
11/18/14	<0.000094	<0.000094	<0.000094	<0.000094	<0.000094	<0.000094	<0.000094	<0.000094	<0.000094	<0.000094	<0.000094	<0.000094	<0.000094
12/08/15	<0.0000952	<0.0000952	<0.0000952	<0.0000952	<0.0000952	<0.0000952	<0.0000952	<0.0000952	<0.0000952	<0.0000952	<0.0000952	<0.0000952	<0.0000952
04/27/16	<0.0000939	<0.0000939	<0.0000939	<0.0000939	<0.0000939	<0.0000939	<0.0000939	<0.0000939	<0.0000939	<0.0000939	<0.0000939	<0.0000939	<0.0000939
10/25/16	<0.0000935	<0.0000935	<0.0000935	<0.0000935	<0.0000935	<0.0000935	<0.0000935	<0.0000935	<0.0000935	<0.0000935	<0.0000935	<0.0000935	<0.0000935
Field Point MW-22	**Well Screen Interval (feet): 30.00-45.00**												
10/30/09	<0.00102	<0.00510	<0.00102	<0.000204	<0.000102	<0.000102	<0.000204	<0.000143	<0.000102	<0.000204	<0.000204	<0.000510	<0.000204
10/13/11	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
02/22/12	<0.0000943	<0.0000943	<0.0000943	<0.0000943	<0.0000943	<0.0000943	<0.0000943	<0.0000943	<0.0000943	<0.0000943	<0.0000943	<0.0000943	<0.0000943
07/17/12	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190
10/03/12	<0.00189	<0.00189	<0.00189	<0.00189	<0.00189	<0.00189	<0.00189	<0.00189	<0.00189	<0.00189	<0.00189	<0.00189	<0.00189
05/15/13	<0.0000187	<0.0000374	<0.0000187	<0.0000187	<0.0000187	<0.0000187	<0.000028	<0.0000187	<0.0000187	<0.0000187	<0.0000374	<0.0000187	<0.0000187
01/29/14	<0.0000188	<0.0000282	<0.0000282	<0.0000188	<0.0000188	<0.0000188	<0.0000188	<0.0000188	<0.0000188	<0.0000188	<0.0000282	<0.0000188	<0.0000188
06/18/14	<0.0000194	<0.0000291	<0.0000291	<0.0000194	<0.0000194	<0.0000194	<0.0000194	<0.0000194	<0.0000194	<0.0000194	<0.0000291	<0.0000194	<0.0000191
11/19/14	<0.000097	<0.000097	<0.000097	<0.000097	<0.000097	<0.000097	<0.000097	<0.000097	<0.000097	<0.000097	<0.000097	<0.000097	<0.000097
12/08/15	<0.0000952	<0.0000952	<0.0000952	<0.0000952	<0.0000952	<0.0000952	<0.0000952	<0.0000952	<0.0000952	<0.0000952	<0.0000952	<0.0000952	<0.0000952
04/27/16	<0.0000939	<0.0000939	<0.0000939	<0.0000939	<0.0000939	<0.0000939	<0.0000939	<0.0000939	<0.0000939	<0.0000939	<0.0000939	<0.0000939	<0.0000939

TABLE 5
CUMULATIVE GROUNDWATER ANALYTICAL RESULTS FOR PAHs
Gladiola Station
Lea County, New Mexico
Cardno 3612

Date	Acenaphthene (mg/l)	Acenaphthylene (mg/l)	Anthracene (mg/l)	Benzo(a)anthracene (mg/l)	Benzo(a)pyrene (mg/l)	Benzo(b)fluoranthene (mg/l)	Benzo(g,h,i)perylene (mg/l)	Benzo(k)fluoranthene (mg/l)	Chrysene (mg/l)	Dibenz(a,h)anthracene (mg/l)	Fluoranthene (mg/l)	Fluorene (mg/l)	Indeno(1,2,3-cd)pyrene (mg/l)
NMED WQCC HHS	**NA**	**NA**	**NA**	**NA**	**0.0007**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**
Field Point MW-22	**Well Screen Interval (feet): 30.00-45.00**												
10/25/16	<0.0000935	<0.0000935	<0.0000935	<0.0000935	<0.0000935	<0.0000935	<0.0000935	<0.0000935	<0.0000935	<0.0000935	<0.0000935	<0.0000935	<0.0000935
05/24/17	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019
11/29/17	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Field Point MW-23	**Well Screen Interval (feet): 31.00-46.00**												
02/22/12	<0.0000943	<0.0000943	<0.0000943	<0.0000943	<0.0000943	<0.0000943	<0.0000943	<0.0000943	<0.0000943	<0.0000943	<0.0000943	<0.0000943	<0.0000943
07/17/12	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190
10/03/12	<0.00192	<0.00192	<0.00192	<0.00192	<0.00192	<0.00192	<0.00192	<0.00192	<0.00192	<0.00192	<0.00192	<0.00192	<0.00192
05/15/13	<0.000019	<0.0000381	<0.000019	<0.000019	<0.000019	<0.000019	<0.0000286	<0.000019	<0.000019	<0.000019	<0.0000381	<0.000019	<0.000019
01/29/14	<0.0000188	<0.0000282	<0.0000282	<0.0000188	<0.0000188	<0.0000188	<0.0000188	<0.0000188	<0.0000188	<0.0000188	0.0000932 J	<0.0000188	<0.0000188
06/18/14	<0.0000204	<0.0000306	<0.0000306	<0.0000204	<0.0000204	<0.0000204	<0.0000204	<0.0000204	<0.0000204	<0.0000204	<0.0000306	<0.0000204	<0.0000204
11/18/14	<0.000095	<0.000095	<0.000095	<0.000095	<0.000095	<0.000095	<0.000095	<0.000095	<0.000095	<0.000095	<0.000095	<0.000095	<0.000095
12/08/15	<0.000190	<0.000190	<0.000190	<0.000190	<0.000190	<0.000190	<0.000190	<0.000190	<0.000190	<0.000190	<0.000190	0.000220	<0.000190
04/27/16	<0.0000939	<0.0000939	<0.0000939	<0.0000939	<0.0000939	<0.0000939	<0.0000939	<0.0000939	<0.0000939	<0.0000939	<0.0000939	0.000280	<0.0000939
Field Point MW-25	**Well Screen Interval (feet): 28.00-43.00**												
02/22/12	0.000168	0.000179	<0.000105	<0.000105	<0.000105	<0.000105	<0.000105	<0.000105	<0.000105	<0.000105	<0.000105	0.00232	<0.000105
Field Point MW-26	**Well Screen Interval (feet): 30.00-45.00**												
02/22/12	<0.0000952	<0.0000952	<0.0000952	<0.0000952	<0.0000952	<0.0000952	<0.0000952	<0.0000952	<0.0000952	<0.0000952	<0.0000952	<0.0000952	<0.0000952
07/17/12	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190
10/03/12	<0.00189	<0.00189	<0.00189	<0.00189	<0.00189	<0.00189	<0.00189	<0.00189	<0.00189	<0.00189	<0.00189	0.00189	<0.00189
05/15/13	<0.0000187	<0.0000374	<0.0000187	<0.0000187	<0.0000187	<0.0000187	<0.000028	<0.0000187	<0.0000187	<0.0000187	<0.0000374	<0.0000187	<0.0000187

TABLE 5
CUMULATIVE GROUNDWATER ANALYTICAL RESULTS FOR PAHs
Gladiola Station
Lea County, New Mexico
Cardno 3612

Date	Acenaphthene (mg/l)	Acenaphthylene (mg/l)	Anthracene (mg/l)	Benzo(a)anthracene (mg/l)	Benzo(a)pyrene (mg/l)	Benzo(b)fluoranthene (mg/l)	Benzo(g,h,i)perylene (mg/l)	Benzo(k)fluoranthene (mg/l)	Chrysene (mg/l)	Dibenz(a,h)anthracene (mg/l)	Fluoranthene (mg/l)	Fluorene (mg/l)	Indeno(1,2,3-cd)pyrene (mg/l)
NMED WQCC HHS	**NA**	**NA**	**NA**	**NA**	**0.0007**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**
Field Point MW-26	**Well Screen Interval (feet): 30.00-45.00**												
01/29/14	<0.0000188	<0.0000282	<0.0000282	<0.0000188	<0.0000188	<0.0000188	<0.0000188	<0.0000188	<0.0000188	<0.0000188	<0.0000282	<0.0000188	<0.0000188
06/18/14	<0.0000189	<0.0000283	<0.0000283	<0.0000189	<0.0000189	<0.0000189	<0.0000189	<0.0000189	<0.0000189	<0.0000189	<0.0000283	<0.0000189	<0.0000189
11/19/14	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
12/08/15	<0.0000952	<0.0000952	<0.0000952	<0.0000952	<0.0000952	<0.0000952	<0.0000952	<0.0000952	<0.0000952	<0.0000952	<0.0000952	<0.0000952	<0.0000952
04/27/16	<0.0000939	<0.0000939	<0.0000939	<0.0000939	<0.0000939	<0.0000939	<0.0000939	<0.0000939	<0.0000939	<0.0000939	<0.0000939	<0.0000939	<0.0000939
10/25/16	<0.0000935	<0.0000935	<0.0000935	<0.0000935	<0.0000935	<0.0000935	<0.0000935	<0.0000935	<0.0000935	<0.0000935	<0.0000935	<0.0000935	<0.0000935
05/24/17	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019
11/29/17	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019
Field Point SB-1GW	**Grab Groundwater Sample**												
10/28/11	<0.0000962	<0.0000962	<0.0000962	<0.0000962	<0.0000962	<0.0000962	<0.0000962	<0.0000962	<0.0000962	<0.0000962	<0.0000962	<0.0000962	<0.0000962
Field Point SB-2GW	**Grab Groundwater Sample**												
10/28/11	<0.0000971	<0.0000971	<0.0000971	<0.0000971	<0.0000971	<0.0000971	<0.0000971	<0.0000971	<0.0000971	<0.0000971	<0.0000971	0.00034	<0.0000971
Field Point SB-3GW	**Grab Groundwater Sample**												
10/28/11	0.0005	0.000167	<0.000098	<0.000098	<0.000098	<0.000098	<0.000098	<0.000098	<0.000098	<0.000098	<0.000098	0.00165	<0.000098
Field Point SB-4GW	**Grab Groundwater Sample**												
10/28/11	<0.000098	<0.000098	<0.000098	<0.000098	<0.000098	<0.000098	<0.000098	<0.000098	<0.000098	<0.000098	<0.000098	0.000216	<0.000098
Field Point SB-5GW	**Grab Groundwater Sample**												
10/28/11	0.000137	0.000304	<0.000098	<0.000098	<0.000098	<0.000098	<0.000098	<0.000098	<0.000098	<0.000098	<0.000098	0.000725	<0.000098

TABLE 5
CUMULATIVE GROUNDWATER ANALYTICAL RESULTS FOR PAHs
Gladiola Station
Lea County, New Mexico
Cardno 3612

Date	Acenaphthene (mg/l)	Acenaphthylene (mg/l)	Anthracene (mg/l)	Benzo(a)anthracene (mg/l)	Benzo(a)pyrene (mg/l)	Benzo(b)fluoranthene (mg/l)	Benzo(g,h,i)perylene (mg/l)	Benzo(k)fluoranthene (mg/l)	Chrysene (mg/l)	Dibenz(a,h)anthracene (mg/l)	Fluoranthene (mg/l)	Fluorene (mg/l)	Indeno(1,2,3-cd)pyrene (mg/l)
NMED WQCC HHS	**NA**	**NA**	**NA**	**NA**	**0.0007**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**
Field Point SB-6GW	**Grab Groundwater Sample**												
10/28/11	<0.0000971	<0.0000971	<0.0000971	<0.0000971	<0.0000971	<0.0000971	<0.0000971	<0.0000971	<0.0000971	<0.0000971	<0.0000971	<0.0000971	<0.0000971
Field Point SB-7GW	**Grab Groundwater Sample**												
10/28/11	0.000184	<0.0000971	<0.0000971	<0.0000971	<0.0000971	<0.0000971	<0.0000971	<0.0000971	<0.0000971	<0.0000971	<0.0000971	0.000495	<0.0000971

TABLE 5
CUMULATIVE GROUNDWATER ANALYTICAL RESULTS FOR PAHs
Gladiola Station
Lea County, New Mexico
Cardno 3612

Date	Phenanthrene (mg/l)	Pyrene (mg/l)	Naphthalene (mg/l)	1-Methylnaphthalene (mg/l)	2-Methylnaphthalene (mg/l)	Total Naphthalene (mg/l)
NMED WQCC HHS	**NA**	**NA**	**NA**	**NA**	**NA**	**0.03**
Field Point MW-1	**Well Screen Interval (feet): 22.71-42.71**					
07/24/06	0.00434	0.0246	0.0639 (a)	0.194	0.109	**0.3669**
02/08/07	0.0489	0.0493	0.139 (a)	0.178	0.300	**0.6170**
09/26/08	<0.0100	<0.0100	0.0553	0.0400	0.0522	**0.1475**
05/19/09	<0.0100	<0.0100	0.0461	0.0313	0.0403	**0.1177**
08/19/09	1.620 R1	1.470 R1	0.627 (c)	3.940 R1	1.940	**6.507 R1**
10/30/09	0.0132 R1	0.00554 R1	0.0746 (c)	0.118 R1	0.0573	**0.250 R1**
10/12/11	<0.0000952	<0.0000952				
Field Point MW-2	**Well Screen Interval (feet): 27.59-47.59**					
07/25/06	0.0603	0.0333	0.0211 (a)	0.163	0.0696	**0.2537**
02/08/07	0.232	0.075	0.0208 (a)	0.258	0.238	**0.5168**
09/26/08	<0.0971	<0.0971	0.117	0.201	0.287	**0.0484**
08/19/09	1.660 R1	1.410 R1	0.730 (c)	5.070 R1	2.750	**8.550 R1**
10/30/09	0.0382 R1	0.0545 R1	0.0514 (c)	0.0975 R1	0.0781	**0.227 R1**
Field Point MW-3	**Well Screen Interval (feet): 24.20-44.20**					
07/24/06	0.0357	0.0182	0.0315 (a)	0.161	0.0752	**0.2677**
02/08/07	0.191	0.0557	0.053 (a)	0.220	0.255	**0.5280**
09/26/08	<0.0105	<0.0105	0.0146	0.0154	0.0162	**0.0462**
05/19/09	<0.0105	<0.0105	0.0164	0.0199	0.0215	**0.0578**
08/19/09	0.146 R1	0.161 R1	0.0353 R1 (c)	0.245	0.0885	**0.3688 R1**
10/30/09	0.0451 R1	0.0738 R1	0.00943 (c)	0.153 R1	0.0482	**0.211 R1**
Field Point MW-4	**Well Screen Interval (feet): 23.97-38.97**					
07/25/06	<0.000469	<0.000188	0.0227 (a)	0.0373	0.0286	**0.0886**
02/07/07	0.00901	0.0117	0.027 (a)	0.0553	0.147	**0.2293**
04/15/08	<0.00990	<0.00990	0.0406	0.0320	0.0428	**0.1154**
09/26/08	<0.00980	<0.00980	0.0397	0.0271	0.0392	**0.1060**
05/19/09	<0.0526	<0.0526	<0.0526	<0.0526	<0.0526	<0.1578
08/19/09	0.0143 R1	0.00854 R1	0.0369 (c)	0.0578	0.0509	**0.1456**

TABLE 5
CUMULATIVE GROUNDWATER ANALYTICAL RESULTS FOR PAHs
Gladiola Station
Lea County, New Mexico
Cardno 3612

Date		Phenanthrene (mg/l)	Pyrene (mg/l)	Naphthalene (mg/l)	1-Methylnaphthalene (mg/l)	2-Methylnaphthalene (mg/l)	Total Naphthalene (mg/l)
NMED WQCC HHS		**NA**	**NA**	**NA**	**NA**	**NA**	**0.03**
Field Point MW-4		**Well Screen Interval (feet): 23.97-38.97**					
10/30/09		0.0949 R1	0.158 R1	0.0645 (c)	0.311 R1	0.163	**0.539 R1**
Field Point MW-5		**Well Screen Interval (feet): 27.19-47.19**					
07/20/06		0.00483	<0.000189	0.0589 (a)	0.0914	0.0563	**0.2066**
02/07/07		0.0075	0.0037	0.117 (a)	0.105	0.218	**0.4400**
04/15/08		<0.00990	<0.00990	0.0693	0.0451	0.0547	**0.1691**
09/26/08		<0.0962	<0.0962	0.074	0.0443	0.605	**0.1671**
05/19/09		<0.0526	<0.0526	0.0873	0.0573	0.0676	**0.2122**
08/19/09		0.0194 R1	0.00619 R1	0.105 (c)	0.189 R1	0.103	**0.397**
08/19/09	D	0.0192 R1	0.00682 R1	0.0954 (c)	0.171 R1	0.0707	**0.3371 R1**
10/30/09		0.0127 R1	0.00378 R1	0.0191 (c)	0.0375 R12	0.0641	**0.121 R12**
10/12/11		0.00146	0.000111	0.0402 (b)	0.0216	0.0287	**0.0905**
07/17/12		<0.00190	<0.00190	0.0558	0.0229	0.0248	**0.1035**
07/17/12	D	0.00214	<0.00190	0.0568	0.0245	0.0270	**0.1083**
10/03/12		0.00241	<0.00196	0.0771	0.0296	0.0310	**0.1377**
10/03/12	D	0.00218	<0.00189	0.0833	0.0265	0.0299	**0.1397**
Field Point MW-6		**Well Screen Interval (feet): 27.05-42.05**					
07/21/06		<0.000472	<0.000189	<0.000943 (a)	<0.000943	0.00641	0.006410
02/07/07		<0.000556	<0.000222	<0.00111 (a)	<0.00111	<0.00111	<0.00333
04/15/08		<0.00990	<0.00990	<0.00990	<0.00990	<0.00990	<0.02970
09/26/08		<0.0962	<0.0962	<0.00943	<0.00943	<0.00943	<0.02829
05/18/09		<0.00952	<0.00952	<0.00952	<0.00952	<0.00952	<0.02856
08/19/09		<0.000500	<0.000200	<0.00100 (c)	<0.00100	<0.00100	<0.00300
11/19/09		<0.000490	<0.0.000196	<0.000980	<0.000980	<0.000980	BDL
10/13/11		<0.0000962	<0.0000962				
07/17/12		<0.00190	<0.00190	<0.00500	<0.00190	<0.00190	<0.00500
10/03/12		<0.00189	<0.00189	<0.00500	<0.00189	<0.00189	<0.00500
05/15/13		0.0000764 J	<0.0000561	0.0000629 J	<0.00000935	<0.00000935	0.0000629 J
01/28/14		0.0000523 J	<0.0000188	0.0000523 J	<0.0000188	<0.0000282	0.0000993

TABLE 5
CUMULATIVE GROUNDWATER ANALYTICAL RESULTS FOR PAHs
Gladiola Station
Lea County, New Mexico
Cardno 3612

Date	Phenanthrene (mg/l)	Pyrene (mg/l)	Naphthalene (mg/l)	1-Methylnaphthalene (mg/l)	2-Methylnaphthalene (mg/l)	Total Naphthalene (mg/l)
NMED WQCC HHS	**NA**	**NA**	**NA**	**NA**	**NA**	**0.03**
Field Point MW-6	**Well Screen Interval (feet): 27.05-42.05**					
06/18/14	0.0000518 J	<0.000019	0.000634	0.000239 B	0.000355 B	0.001228 B
11/19/14	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
12/08/15	<0.0000952	<0.0000952	<0.0000952	<0.0000952	<0.0000952	<0.0002856
04/26/16	<0.0000952	<0.0000952	<0.0000952	<0.0000952	<0.0000952	<0.0002856
05/24/17	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00038
11/29/17	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019
Field Point MW-7	**Well Screen Interval (feet): 24.35-39.35**					
07/25/06	<0.000469	<0.000188	0.00383 (a)	0.00855	0.00879	0.02117
02/07/07	<0.000543	<0.000217	0.00284 (a)	0.0215	0.0150	**0.03934**
04/15/08	<0.00971	<0.00971	<0.00971	<0.00971	<0.00971	<0.02913
09/26/08	<0.00943	<0.00943	<0.00943	<0.00943	<0.00943	<0.02829
05/18/09	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0300
08/19/09	<0.000500	0.000665	0.00227 (c)	0.00400	<0.00100	0.00627
10/30/09	<0.000500	0.000609 R1	<0.00100 (c)	0.00873 R1	0.00372	0.0125 R1
10/13/11	0.000147	<0.000105	0.000537	0.000611	0.000558	0.001706
Field Point MW-8	**Well Screen Interval (feet): 23.05-38.05**					
07/25/06	<0.000469	<0.000188	<0.000939 (a)	0.00472	<0.000939	0.004720
02/07/07	<0.000521	<0.000208	<0.00104 (a)	0.0201	0.0113	**0.03140**
04/15/08	<0.00962	<0.00962	<0.00962	<0.00962	<0.00962	<0.02886
09/26/08	<0.00980	<0.00980	<0.00980	<0.00980	<0.00980	<0.02940
05/18/09	<0.00952	<0.00952	<0.00952	<0.00952	<0.00952	<0.02856
08/19/09	<0.000513	0.000657	<0.00103 (c)	0.00674 R1	0.00354 R1	0.01028 R1
10/30/09	0.0005	0.000518	<0.00100 (c)	0.0101 R1	0.00430	0.0144 R1
Field Point MW-9	**Well Screen Interval (feet): 27.64-42.64**					
07/21/06	<0.000495	<0.000198	<0.00099 (a)	<0.00099	<0.00099	<0.00297
02/06/07	<0.000521	<0.000208	<0.00104 (a)	0.0148	0.00424	0.01904
04/15/08	<0.00971	<0.00971	<0.00971	<0.00971	<0.00971	<0.02913

TABLE 5
CUMULATIVE GROUNDWATER ANALYTICAL RESULTS FOR PAHs
Gladiola Station
Lea County, New Mexico
Cardno 3612

Date		Phenanthrene (mg/l)	Pyrene (mg/l)	Naphthalene (mg/l)	1-Methylnaphthalene (mg/l)	2-Methylnaphthalene (mg/l)	Total Naphthalene (mg/l)
NMED WQCC HHS		**NA**	**NA**	**NA**	**NA**	**NA**	**0.03**
Field Point MW-9		**Well Screen Interval (feet): 27.64-42.64**					
09/26/08		<0.00962	<0.00962	<0.00962	<0.00962	<0.00962	<0.02886
05/18/09		<0.00952	<0.00952	<0.00952	<0.00952	<0.00952	<0.02856
08/19/09		<0.000485	<0.000194	<0.000971 (c)	<0.000971	<0.000971	<0.002913
10/30/09		<0.000500	0.00101	<0.00100 (c)	<0.00100	<0.00100	BDL
10/13/11		<0.0000952	<0.0000952	<0.000952	<0.000952	<0.000952	<0.000952
02/22/12		<0.0000952	<0.0000952	0.00143	<0.000952	<0.000952	0.00143
07/17/12		<0.00190	<0.00190	<0.00500	<0.00190	<0.00190	<0.00500
10/03/12		0.0941	0.00931	0.0676	0.537	0.795	**1.3996**
Field Point MW-10		**Well Screen Interval (feet): 28.08-43.08**					
07/21/06		<0.0005	<0.000200	<0.001 (a)	0.001	0.001	0.001
02/06/07		<0.00549	<0.000220	<0.00110 (a)	<0.00110	<0.00110	<0.00330
04/15/08		<0.00971	<0.00971	<0.00971	<0.00971	<0.00971	<0.02913
09/26/08		<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0300
05/18/09		<0.00952	<0.00952	<0.00952	<0.00952	<0.00952	<0.02856
08/19/09		<0.000490	<0.000196	<0.000980 (c)	<0.000980	0.00268	0.00268
11/19/09		<0.000526	0.000935 R1	<0.00105 (c)	0.0202 R1	0.0142 R1	**0.0344 R1**
10/13/11		<0.0000943	<0.0000943	<0.0000943	<0.0000943	<0.0000943	<0.000943
07/17/12		<0.00190	<0.00190	<0.00500	<0.00190	<0.00190	<0.00500
10/03/12		<0.00190	<0.00190	<0.00500	<0.00190	<0.00190	<0.00500
05/15/13		0.0000876 J	<0.0000561	0.0000706 J	<0.00000935	<0.00000935	0.0000706 J
05/15/13	D	<0.0000561	<0.0000561	0.0000757 J	<0.00000935	<0.00000935	0.0000757 J
01/29/14		<0.0000282	<0.0000188	0.0000594 J	<0.0000188	<0.0000282	0.0000594 J
11/19/14		<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
11/19/14	D	<0.000094	<0.000094	<0.000094	<0.000094	<0.000094	<0.000094
05/24/17		<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00038
11/29/17		<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019
Field Point MW-11		**Well Screen Interval (feet): 29.00-44.00**					
04/30/08		<0.00971	<0.00971	<0.00971	<0.00971	<0.00971	<0.02913

TABLE 5
CUMULATIVE GROUNDWATER ANALYTICAL RESULTS FOR PAHs
Gladiola Station
Lea County, New Mexico
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Date	Phenanthrene (mg/l)	Pyrene (mg/l)	Naphthalene (mg/l)	1-Methylnaphthalene (mg/l)	2-Methylnaphthalene (mg/l)	Total Naphthalene (mg/l)
NMED WQCC HHS	**NA**	**NA**	**NA**	**NA**	**NA**	**0.03**
Field Point MW-11	**Well Screen Interval (feet): 29.00-44.00**					
09/26/08	<0.00962	<0.00962	<0.00962	<0.00962	<0.00962	<0.02886
05/18/09	<0.00943	<0.00943	<0.00943	<0.00943	<0.00943	<0.02829
08/19/09	<0.000500	<0.000200	<0.00100 (c)	<0.00100	0.00334	0.00334
10/30/09	<0.000495	<0.000198	<0.00099 (c)	<0.00099	<0.00099	BDL
10/13/11	<0.000099	<0.000099	<0.000099	<0.000099	<0.000099	<0.000099
07/17/12	<0.00190	<0.00190	<0.00500	<0.00190	<0.00190	<0.00500
10/03/12	<0.00194	<0.00194	<0.00500	<0.00194	<0.00194	<0.00500
05/15/13	<0.0000561	<0.0000561	0.0000534 J	<0.00000935	<0.00000935	0.0000534 J
01/28/14	<0.0000282	<0.0000188	<0.0000188	<0.0000188	<0.0000282	<0.0000282
06/18/14	<0.0000287	<0.0000191	0.000425	<0.0000191	<0.0000287	0.000425
11/19/14	<0.000095	<0.000095	<0.000095	<0.000095	<0.000095	<0.000095
12/08/15	<0.0000952	<0.0000952	<0.0000952	<0.0000952	<0.0000952	<0.0002856
04/27/16	<0.0000939	<0.0000939	<0.0000939	<0.0000939	<0.0000939	<0.0002817
10/25/16	<0.0000935	<0.0000935	<0.0000935	<0.0000935	<0.0000935	<0.000187
05/24/17	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00038
11/29/17	0.00033	<0.00019	0.00022	0.0010	0.0013	0.00252
Field Point MW-12	**Well Screen Interval (feet): 30.00-45.00**					
04/30/08	<0.010	<0.010	0.0327	0.0316	0.0241	**0.0884**
09/26/08	<0.00943	<0.00943	0.0909	0.0512	0.0613	**0.2034**
05/19/09	<0.00952	<0.00952	0.0726	0.0434	0.0534	**0.1694**
08/19/09	<0.000500	<0.000200	0.12 (c)	0.159 R1	0.0808	**0.3598 R1**
10/30/09	0.0111 R1	0.00257 R1	0.0236 (c)	0.0283 R1	0.0708	**0.123 R1**
10/13/11	0.00165	<0.000099	0.0879	0.0406	0.063	**0.1915**
02/22/12	0.000991	<0.0000943	0.0659	0.0244	0.0396	**0.1299**
07/17/12	<0.002	<0.002	0.0653	0.0357	0.0394	**0.1404**
10/03/12	<0.00189	<0.00189	0.129	0.0464	0.0602	**0.2356**
Field Point MW-13	**Well Screen Interval (feet): 30.00-45.00**					
04/30/08	<0.00971	<0.00971	0.0366	0.0279	0.0329	**0.0974**

TABLE 5
CUMULATIVE GROUNDWATER ANALYTICAL RESULTS FOR PAHs
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Date	Phenanthrene (mg/l)	Pyrene (mg/l)	Naphthalene (mg/l)	1-Methylnaphthalene (mg/l)	2-Methylnaphthalene (mg/l)	Total Naphthalene (mg/l)
NMED WQCC HHS	**NA**	**NA**	**NA**	**NA**	**NA**	**0.03**
Field Point MW-13	**Well Screen Interval (feet): 30.00-45.00**					
09/26/08	<0.0980	<0.0980	0.0986	<0.00980	<0.00980	**0.0986**
05/19/09	<0.0476	<0.0476	0.121	0.0712	0.0888	**0.281**
08/19/09	0.0458 R1	0.0277 R1	0.120 (c)	0.291 R1	0.147	**0.558 R1**
10/30/09	0.0238 R1	0.0369 R1	0.0212 (c)	0.0325 R1	0.0743	**0.128 R1**
Field Point MW-14	**Well Screen Interval (feet): 27.00-42.00**					
04/30/08	<0.00971	<0.00971	<0.00971	<0.00971	<0.00971	<0.02913
09/26/08	<0.00980	<0.00980	0.0120	0.0103	0.0108	**0.0331**
05/19/09	<0.00952	<0.00952	0.00956	<0.00952	<0.00952	0.00956
08/19/09	0.00411 R1	0.00109	0.00923 (c)	0.0547 R1	0.0172	**0.08113 R1**
10/30/09	0.00441 R1	0.00135 R1	0.00998 (c)	0.0506 R1	0.0186	**0.0792 R1**
10/13/11	0.000381	<0.0000952	0.00579	0.00459	0.00418	0.01456
02/22/12	0.000644	<0.000111	0.0071	0.00479	0.00428	0.01617
07/17/12	<0.00190	<0.00190	0.0137	0.00521	0.005	0.02391
10/03/12	<0.00189	<0.00189	0.0118	0.00625	0.0072	0.02525
Field Point MW-15	**Well Screen Interval (feet): 29.00-44.00**					
04/30/08	<0.00971	<0.00971	0.0367	0.0318	0.0395	**0.108**
09/26/08	<0.00980	<0.00980	0.0902	0.0636	0.0825	**0.2363**
05/19/09	<0.0105	<0.0105	0.0658	0.0380	0.0484	**0.1522**
08/19/09	0.0196 R1	0.00753 R1	0.1690 (c)	0.202 R1	0.118	**0.489 R1**
10/30/09	0.0282 R1	0.0435 R1	0.0274 (c)	0.0407 R1	0.0225	**0.0906 R1**
Field Point MW-16	**Well Screen Interval (feet): 26.50-41.50**					
04/30/08	<0.0103	<0.0103	<0.0103	<0.0103	<0.0103	<0.0309
09/26/08	<0.00943	<0.00943	<0.00943	<0.00943	<0.00943	<0.02829
05/18/09	<0.00943	<0.00943	<0.00943	<0.00943	<0.00943	<0.02829
08/19/09	<0.000513	0.000979 R1	0.00429 R1 (c)	0.00603 R10	0.0127 R1	0.02302 R10, R1
10/13/11	0.000343	<0.0000952	0.00154	0.00158	0.00124	0.00436
02/22/12	0.000292	<0.0000943	0.00122	0.00113	0.00090	0.003245

TABLE 5
CUMULATIVE GROUNDWATER ANALYTICAL RESULTS FOR PAHs
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Date	Phenanthrene (mg/l)	Pyrene (mg/l)	Naphthalene (mg/l)	1-Methylnaphthalene (mg/l)	2-Methylnaphthalene (mg/l)	Total Naphthalene (mg/l)
NMED WQCC HHS	**NA**	**NA**	**NA**	**NA**	**NA**	**0.03**
Field Point MW-16	**Well Screen Interval (feet): 26.50-41.50**					
07/17/12	<0.00190	<0.00190	<0.00500	0.00229	<0.00190	0.00229
10/03/12	<0.00189	<0.00189	0.00855	0.00429	<0.00189	0.01284
Field Point MW-17	**Well Screen Interval (feet): 29.50-44.50**					
08/19/09	0.0102 R1	<0.000200	0.134 (c)	0.188 R1	0.0768	**0.3988 R1**
10/30/09	0.0121 R1	0.00284 R1	0.134 (c)	0.193 R1		**0.327 R1**
10/13/11	<0.000099	<0.000099	0.0798	0.0364	0.0556	**0.1718**
07/17/12	<0.00190	<0.00190	0.0429	0.0256	0.0306	**0.0991**
10/03/12	<0.00189	<0.00189	0.0865	0.0325	0.0402	**0.1592**
11/29/17	0.0013	<0.00019	0.044	0.022	0.028	**0.094**
Field Point MW-18	**Well Screen Interval (feet): 27.00-42.00**					
08/19/09	0.0104 R1	0.000948	0.0213 (c)	0.141 R1	0.0193	**0.1816 R1**
10/30/09	0.0129 R1	0.00257 R1	0.110 (c)	0.189 R1	0.0696	**0.369 R1**
10/13/11	0.00246	<0.0000952	0.0414	0.0292	0.0431	**0.1137**
Field Point MW-19	**Well Screen Interval (feet): 27.00-42.00**					
08/19/09	<0.000500	<0.000200	<0.00100 (c)	<0.00100	<0.00100	<0.00300
10/30/09	<0.000510	<0.000204	<0.00102 (c)	<0.00102	<0.00102	BDL
10/13/11	<0.0000971	<0.0000971	<0.0000971	<0.0000971	<0.0000971	<0.0000971
07/17/12	<0.00190	<0.00190	<0.00500	<0.00190	<0.00190	<0.00500
10/03/12	<0.00189	<0.00189	<0.00500	<0.00189	<0.00189	<0.00500
05/15/13	<0.0000566	<0.0000566	<0.0000189	<0.00000943	<0.00000943	<0.0000189
01/29/14	<0.0000282	<0.0000188	<0.0000188	<0.0000188	<0.0000282	<0.0000282
06/18/14	<0.00003	<0.00002	0.00022 B	<0.00002	<0.00003	0.00022 B
11/18/14	<0.000096	<0.000096	<0.000096	<0.000096	<0.000096	<0.000096
12/09/15	<0.0000952	<0.0000952	0.00156	0.00147	0.000304	0.003334
04/27/16	<0.0000939	<0.0000939	0.000772	0.000582	<0.0000939	0.001354
10/25/16	<0.0000935	<0.0000935	<0.0000935	<0.0000935	<0.0000935	<0.000187
05/24/17	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00038

TABLE 5
CUMULATIVE GROUNDWATER ANALYTICAL RESULTS FOR PAHs
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Date	Phenanthrene (mg/l)	Pyrene (mg/l)	Naphthalene (mg/l)	1-Methylnaphthalene (mg/l)	2-Methylnaphthalene (mg/l)	Total Naphthalene (mg/l)
NMED WQCC HHS	**NA**	**NA**	**NA**	**NA**	**NA**	**0.03**
Field Point MW-19	**Well Screen Interval (feet): 27.00-42.00**					
11/29/17	0.00018 J	<0.00019	0.00045	0.0013	0.00025	0.002
Field Point MW-20	**Well Screen Interval (feet): 29.50-44.50**					
08/19/09	<0.000485	<0.000194	<0.000971 (c)	<0.000971	<0.000971	<0.002913
10/30/09	<0.000476	<0.000190	<0.000952 (c)	<0.000952	<0.000952	BDL
10/13/11	<0.000099	<0.000099	<0.000099	<0.000099	<0.000099	<0.000099
02/22/12	<0.0000943	<0.0000943	<0.000943	<0.000943	<0.000943	<0.000943
07/17/12	<0.00190	<0.00190	<0.00500	<0.00190	<0.00190	<0.00500
10/03/12	<0.00189	<0.00189	<0.00500	<0.00189	<0.00189	<0.00500
05/15/13	<0.0000561	<0.0000561	<0.0000187	<0.00000935	<0.00000935	<0.0000187
01/29/14	<0.0000282	<0.0000188	<0.0000188	<0.0000188	<0.0000282	<0.0000282
06/18/14	<0.0000288	<0.0000192	0.000265 B	<0.0000192	<0.0000288	0.000265 B
11/18/14	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Field Point MW-21	**Well Screen Interval (feet): 29.50-44.50**					
08/19/09	<0.000490	<0.000196	<0.000980 (c)	0.00156	<0.000980	0.00156
10/30/09	<0.000500	<0.000200	<0.00100 (c)	<0.00100	<0.00100	BDL
10/13/11	<0.000099	<0.000099	<0.000099	<0.000099	<0.000099	<0.00009
07/17/12	<0.00190	<0.00190	<0.00500	<0.00190	<0.00190	<0.00500
10/03/12	<0.00189	<0.00189	<0.00500	<0.00189	<0.00189	<0.00500
05/15/13	<0.0000566	<0.0000566	<0.0000189	<0.00000943	<0.00000943	<0.0000189
01/29/14	<0.0000282	<0.0000188	<0.0000188	<0.0000188	<0.0000282	<0.0000282
06/18/14	<0.0000284	<0.0000190	0.000155 B	<0.000019	<0.0000284	0.000155 B
11/18/14	<0.000094	<0.000094	<0.000094	<0.000094	<0.000094	<0.000094
12/08/15	<0.0000952	<0.0000952	<0.0000952	<0.0000952	<0.0000952	<0.0002856
04/27/16	<0.0000939	<0.0000939	<0.0000939	<0.0000939	<0.0000939	<0.0002817
10/25/16	<0.0000935	<0.0000935	<0.0000935	<0.0000935	<0.0000935	<0.000187
Field Point MW-22	**Well Screen Interval (feet): 30.00-45.00**					
10/30/09	<0.000510	<0.000204	<0.00102 (c)	<0.00102	<0.00102	BDL

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Date	Phenanthrene (mg/l)	Pyrene (mg/l)	Naphthalene (mg/l)	1-Methylnaphthalene (mg/l)	2-Methylnaphthalene (mg/l)	Total Naphthalene (mg/l)
NMED WQCC HHS	**NA**	**NA**	**NA**	**NA**	**NA**	**0.03**
Field Point MW-22	**Well Screen Interval (feet): 30.00-45.00**					
10/13/11	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
02/22/12	<0.0000943	<0.0000943	<0.0001	<0.0001	<0.0001	<0.0001
07/17/12	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190
10/03/12	<0.00189	<0.00189	<0.00500	<0.00189	<0.00189	<0.00500
05/15/13	<0.0000561	<0.0000561	<0.0000187	<0.00000935	<0.00000935	<0.0000187
01/29/14	0.0000541 J	<0.0000188	<0.0000188	<0.0000188	<0.0000282	<0.0000188
06/18/14	<0.0000291	<0.0000194	0.000278 B	<0.0000194	<0.0000291	0.000278 B
11/19/14	<0.000097	<0.000097	<0.000097	<0.000097	<0.000097	<0.000097
12/08/15	<0.0000952	<0.0000952	<0.0000952	<0.0000952	<0.0000952	<0.0002856
04/27/16	<0.0000939	<0.0000939	<0.0000939	<0.0000939	<0.0000939	<0.0002817
10/25/16	<0.0000935	<0.0000935	<0.0000935	<0.0000935	<0.0000935	<0.000187
05/24/17	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00038
11/29/17	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Field Point MW-23	**Well Screen Interval (feet): 31.00-46.00**					
02/22/12	<0.0000943	<0.0000943	<0.0001	<0.0001	<0.0001	<0.0001
07/17/12	<0.00190	<0.00190	<0.00500	<0.00190	<0.00190	<0.00500
10/03/12	<0.00192	<0.00192	<0.00500	<0.00192	<0.00192	<0.00500
05/15/13	<0.0000571	<0.0000571	<0.000019	<0.00000952	<0.00000952	<0.000019
01/29/14	0.0000687 J	0.0000724 J	<0.0000188	<0.0000188	<0.0000282	<0.0000188
06/18/14	<0.0000306	<0.0000204	0.0000606 J B	<0.0000204	<0.0000306	0.000606 J B
11/18/14	<0.000095	<0.000095	<0.000095	<0.000095	<0.000095	<0.000095
12/08/15	<0.000190	<0.000190	0.0125	0.00669	0.00559	0.02478
04/27/16	0.000177 B	<0.0000939	0.00754	0.00497	0.00409	0.0166
Field Point MW-25	**Well Screen Interval (feet): 28.00-43.00**					
02/22/12	0.0018	<0.000105	0.0939	0.0427	0.0688	**0.2054**
Field Point MW-26	**Well Screen Interval (feet): 30.00-45.00**					
02/22/12	<0.0000952	<0.0000952	<0.0001	<0.0001	<0.0001	<0.0001

TABLE 5
CUMULATIVE GROUNDWATER ANALYTICAL RESULTS FOR PAHs
Gladiola Station
Lea County, New Mexico
Cardno 3612

Date	Phenanthrene (mg/l)	Pyrene (mg/l)	Naphthalene (mg/l)	1-Methylnaphthalene (mg/l)	2-Methylnaphthalene (mg/l)	Total Naphthalene (mg/l)
NMED WQCC HHS	**NA**	**NA**	**NA**	**NA**	**NA**	**0.03**
Field Point MW-26	**Well Screen Interval (feet): 30.00-45.00**					
07/17/12	<0.00190	<0.00190	<0.00500	<0.00190	<0.00190	<0.00500
10/03/12	<0.00189	<0.00189	<0.00500	<0.00189	<0.00189	<0.00500
05/15/13	<0.0000561	<0.0000561	<0.0000187	<0.00000935	<0.00000935	<0.0000187
01/29/14	<0.0000282	<0.0000188	0.0000818 J	0.000048 J	<0.0000282	0.0001298
06/18/14	<0.0000283	<0.0000189	0.000394 B	<0.0000189	<0.0000283	0.000391 B
11/19/14	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
12/08/15	<0.0000952	<0.0000952	<0.0000952	<0.0000952	<0.0000952	<0.0002856
04/27/16	<0.0000939	<0.0000939	0.000370	0.000130	0.0000991	0.0005991
10/25/16	<0.0000935	<0.0000935	<0.0000935	<0.0000935	<0.0000935	<0.000187
05/24/17	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00038
11/29/17	<0.00019	<0.00019	0.00020	0.00018 J	0.00015 J	0.00053
Field Point SB-1GW	**Grab Groundwater Sample**					
10/28/11	0.000452	<0.0000962	0.000115	0.000462	0.000144	0.000721
Field Point SB-2GW	**Grab Groundwater Sample**					
10/28/11	0.000359	<0.0000971	0.00922	0.00625	0.00883	0.0243
Field Point SB-3GW	**Grab Groundwater Sample**					
10/28/11	0.00168	<0.000098	0.0835	0.039	0.0606	**0.1831**
Field Point SB-4GW	**Grab Groundwater Sample**					
10/28/11	0.000363	<0.000098	0.0137	0.0084	0.00967	**0.03177**
Field Point SB-5GW	**Grab Groundwater Sample**					
10/28/11	0.000559	<0.000098	0.0499	0.0182	0.0269	**0.095**
Field Point SB-6GW	**Grab Groundwater Sample**					
10/28/11	0.0000971	<0.0000971	0.000505	0.000291	0.000437	0.001233

TABLE 5
CUMULATIVE GROUNDWATER ANALYTICAL RESULTS FOR PAHs
Gladiola Station
Lea County, New Mexico
Cardno 3612

Date	Phenanthrene (mg/l)	Pyrene (mg/l)	Naphthalene (mg/l)	1-Methylnaphthalene (mg/l)	2-Methylnaphthalene (mg/l)	Total Naphthalene (mg/l)	
NMED WQCC HHS	**NA**	**NA**	**NA**	**NA**	**NA**	**0.03**	
Field Point SB-7GW	**Grab Groundwater Sample**						
10/28/11	0.000495	<0.0000971	0.0047	0.00281	0.00367	0.01118	

TABLE 5
CUMULATIVE GROUNDWATER ANALYTICAL RESULTS FOR PAHs
Gladiola Station
Lea County, New Mexico
Cardno 3612

Notes: Data collected prior to December 8, 2015 provided by AECOM.
ELEV = Elevation.
GW = Groundwater.
NAPL = Non-aqueous phase liquid.
Groundwater elevations are adjusted for NAPL thickness using a relative density of 0.83.
NMED WQCC HHS = New Mexico Environmental Department Water Quality Control Commission Human Health Standard for groundwater with 10,000 mg/l TDS or less.
Bolded values equal or exceed applicable regulatory limits.
Naphthalene is analyzed by EPA Method 8270C unless otherwise noted.
Total naphthalenes are the sum of 1- and 2-methylnaphthalene and naphthalene.
TDS = Total dissolved solids.
mg/l = Milligrams per liter.
BDL = Below laboratory detection limits.
< = Not detected at or above stated laboratory reporting limit.
A-01 = Could not obtain constant weight.
D = Duplicate sample.
J = Estimated value between method detection limit and practical quantitation limit.
R1 = The relative percent difference between the primary and confirmatory analysis exceeded 40%; the higher value was reported.
R10 = The relative percent difference between the primary and confirmatory analysis exceeded 40%; the lower value was reported due to apparent chromatographic problems.
R12 = The relative percent difference between the primary and confirmatory analysis exceeded 40%; the lower value was reported.
X = Pre-purge/no-purge sample.
(a) = Analyzed by EPA Method 8310.
(b) = Analyzed by EPA Method 8260B.
(c) = Analyzed method unknown.
(d) = Analyzed to determine the presense of NAPL.

TABLE 6
CUMULATIVE GROUNDWATER ANALYTICAL RESULTS FOR METALS AND ADDITIONAL PARAMETERS
Gladiola Station
Lea County, New Mexico
Cardno 3612

Date	Arsenic (mg/l)	Barium (mg/l)	Cadmium (mg/l)	Chromium (mg/l)	Lead (mg/l)	Mercury (mg/l)	Selenium (mg/l)	Silver (mg/l)	Chloride (mg/l)	Sulfate (mg/l)	Alkalinity (mg/l)	TDS (mg/l)
NMED WQCC HHS	**0.1**	**1**	**0.01**	**0.05**	**0.05**	**0.002**	**0.05**	**0.05**	**250.0**	**600.0**	**NA**	**1000.0**
Field Point MW-1	**Well Screen Interval (feet):**		**22.71-42.71**									
07/24/06	0.0295	**4.82**	0.0018	0.0126	<0.00500	0.000303	<0.0100	<0.00500	10.9	1.82	743	900
02/08/07	0.0304	**5.02**	<0.00100	<0.00500	<0.00500	<0.000200	<0.0100	<0.00500	2.8	1.24	621	<100
09/21/08	0.0256	**7.52**	0.0011	<0.00500	<0.00500	<0.000200	<0.0100	<0.00500	1.63	1.28	913	
05/19/09	0.0265	**8.72**	<0.00100	<0.00500	<0.00500	<0.000200	<0.0100	<0.00500	2.41	<1.00	952	962
08/19/09	0.0303	**7**	<0.00100	<0.00500	<0.00500	<0.000200	<0.0100	<0.00500	2.25	<1.00	979	940
10/30/09	0.0246	**8.54**	<0.00100	<0.00500	<0.00500	<0.000200	<0.0100	<0.00500	2.83	3.54	917	780
Field Point MW-2	**Well Screen Interval (feet):**		**27.59-47.59**									
07/25/06	0.0469	0.958	0.0021	0.0140	<0.00500	<0.000200	<0.0100	0.0057	30.6	2.11	668	900
02/08/07	0.0348	0.764	<0.00100	<0.00500	<0.00500	<0.000200	<0.0100	<0.00500	32	3.9	634	440
09/22/08	0.0352	0.823	<0.00100	<0.00500	<0.00500	<0.000200	<0.0100	<0.00500	29.4	3.57	669	622
08/19/09	0.0393	0.901	<0.00100	<0.00500	<0.00500	<0.000200	<0.0100	<0.00500	31.2	2.74	649	742
10/30/09	0.0208	**8.57**	<0.00100	<0.00500	<0.00500	0.0002	<0.0100	0.005	15.1	1.08	752	480
Field Point MW-3	**Well Screen Interval (feet):**		**24.20-44.20**									
07/24/06	0.057	**3.33**	0.0015	0.0098	<0.00500	<0.000200	<0.0100	<0.00500	21.2	8.35	773	880
02/08/07	0.0505	**3.44**	<0.00100	<0.00500	0.0052	<0.000200	<0.0100	<0.00500	31.6	33.4	708	540
09/22/08	0.0380	**6.09**	<0.00100	<0.00500	<0.00500	<0.000200	<0.0100	<0.00500	26.7	2.64	876	744
05/19/09	0.0397	**6.14**	<0.00100	<0.00500	<0.00500	<0.000200	<0.0100	<0.00500	23.7	2.66	883	858
08/19/09	0.0302	**6.56**	<0.00100	<0.00500	<0.00500	<0.000200	<0.0100	<0.00500	28.4	<1.00	880	802
10/30/09	0.0316	**5.91**	<0.00100	<0.00500	<0.00500	0.0002	<0.0100	<0.00500	21.4	<1.00	842	670
Field Point MW-4	**Well Screen Interval (feet):**		**23.97-38.97**									
07/25/06	0.034	**7.34**	0.0016	0.0122	<0.00500	<0.000200	<0.0100	<0.00500	20.7	<1.00	850	**1000**
02/07/07	0.0617	**8.00**	<0.00100	**0.0615**	0.0201	<0.000200	<0.0100	<0.00500	15.1	1.09	2290	<100
04/15/08	0.0140	**7.47**	0.0011	<0.00500	<0.00500	<0.000200	<0.0100	<0.00500	10.2	<1.00	1060	**1180**
09/21/08	0.0156	**7.74**	<0.00100	<0.00500	<0.00500	<0.000200	<0.0100	<0.00500	17.7	1.31	792	774
05/19/09	0.0162	**8.32**	<0.00100	<0.00500	<0.00500	<0.000200	<0.0100	<0.00500	18.4	3.08	802	854
08/19/09	0.0133	**8.19**	<0.00100	<0.00500	<0.00500	<0.000200	<0.0100	<0.00500	18.9	<1.00	807	860
10/30/09	0.0224	**8.64**	<0.00100	<0.00500	<0.00500	<0.000200	<0.0100	<0.00500	12.2	<1.00	782	660
Field Point MW-5	**Well Screen Interval (feet):**		**27.19-47.19**									
07/20/06	0.0661	**1.71**	<0.00100	**0.177**	0.0151	0.000220	<0.0100	<0.00500	6.11	<1.00	1250	712

TABLE 6
CUMULATIVE GROUNDWATER ANALYTICAL RESULTS FOR METALS AND ADDITIONAL PARAMETERS
Gladiola Station
Lea County, New Mexico
Cardno 3612

Date	Arsenic (mg/l)	Barium (mg/l)	Cadmium (mg/l)	Chromium (mg/l)	Lead (mg/l)	Mercury (mg/l)	Selenium (mg/l)	Silver (mg/l)	Chloride (mg/l)	Sulfate (mg/l)	Alkalinity (mg/l)	TDS (mg/l)
NMED WQCC HHS	**0.1**	**1**	**0.01**	**0.05**	**0.05**	**0.002**	**0.05**	**0.05**	**250.0**	**600.0**	**NA**	**1000.0**
Field Point MW-5	**Well Screen Interval (feet):**		**27.19-47.19**									
02/07/07	0.0526	**1.96**	<0.00100	**0.0599**	0.0105	<0.000200	<0.0100	<0.00500	6.58	1.56	1130	610
04/15/08	0.0440	**3.02**	0.0017	0.0167	<0.00500	<0.000200	<0.0100	<0.00500	6.34	<1.00	976	736
09/21/08	0.0370	**3.07**	0.00100	<0.00500	<0.00500	<0.000200	<0.0100	<0.00500	6.62	1.54	841	
05/19/09	0.0336	**3.49**	<0.00100	<0.00500	<0.00500	<0.000200	<0.0100	<0.00500	6.81	<1.00	837	792
08/19/09	0.031	**3.68**	<0.00100	<0.00500	<0.00500	<0.000200	<0.0100	<0.00500	7.02	<1.00	856	752
08/19/09 D	0.0322	**3.71**	<0.00100	<0.00500	<0.00500	<0.000200	<0.0100	<0.00500	6.93	<1.00	847	760
10/30/09	0.0284	**3.93**	<0.00100	<0.00500	<0.00500	<0.000200	<0.0100	<0.00500	6.61	<1.00	797	**1540**
10/12/11	0.0353	**4.8**	<0.00100	<0.00500	0.007	<0.000200	<0.0100	<0.00500	5.03	1.4		
07/17/12	0.0234	**4.9**	<0.00100	<0.00500	<0.00500	<0.000200	<0.0100	<0.00500	4.59	1.18	720	753
07/17/12 D	0.0252	**5.08**	<0.00100	<0.00500	<0.00500	<0.000200	<0.0100	<0.00500	4.42	1.21	721	760
10/03/12	0.0238	**4.48**	<0.00100	<0.00500	<0.00500	<0.000200	<0.0100	<0.00500	5.46	<1.00	726	740
10/03/12 D	0.0233	**4.62**	<0.00100	<0.00500	<0.00500	<0.000200	<0.0100	<0.00500	5.47	<1.00	732	749
Field Point MW-6	**Well Screen Interval (feet):**		**27.05-42.05**									
07/21/06	<0.0100	0.168	<0.00100	<0.00500	<0.00500	0.000207	<0.0100	<0.00500	6.28	63.2	524	660
02/07/07	0.0397	**3.19**	<0.00100	**0.0822**	0.0307	0.00172	<0.0100	<0.00500	6.6	<2.00	2930	325
04/15/08	0.0199	0.610	0.0020	0.0213	0.00805	0.000467	0.0106	<0.00500	5.38	42.7	1650	548
09/21/08	<0.0100	0.0932	<0.00100	<0.00500	<0.00500	<0.000200	<0.0100	<0.00500	5.75	34.5	528	440
05/18/09	<0.0100	0.0991	<0.00100	<0.00500	<0.00500	<0.000200	<0.0100	<0.00500	5.90	37.2	567	234
08/19/09	<0.0100	0.1	<0.00100	<0.00500	<0.00500	<0.000200	<0.0100	<0.00500	6.11	33.0	519	568
10/30/09	<0.0100	0.108	<0.00100	<0.00500	<0.00500	<0.000200	<0.0100	<0.00500	6.03	31.1	475	470
10/13/11	<0.0100	0.112	<0.00100	<0.00500	0.0057	<0.000200	<0.0100	<0.00500	5	26.3		
07/17/12	<0.0100	0.127	<0.00100	<0.00500	<0.00500	<0.000200	<0.0100	<0.00500	4.23	24.6	452	571
10/03/12	<0.0100	0.121	<0.00100	<0.00500	<0.00500	<0.000200	<0.0100	<0.00500	4.91	26.4	446	566
05/15/13	<0.0047	0.14	<0.000200	<0.0012	0.0135	<0.00015	0.0081 J	<0.0013	4.67	<25	483	625
01/28/14	0.01	0.144	<0.000200	<0.0012	0.0059	<0.00015	<0.0064	<0.0013	5.04	26.2	512	597 B
06/18/14	<0.0072	0.138	0.0006 J	<0.00300	<0.002	<0.00015	<0.00500	<0.0025	5.32 B	26.5	483	615
11/19/14	<0.0100	0.15	<0.00100	<0.00500	<0.00500	<0.000200	<0.0100	<0.00500	4.5	25	470	660
12/08/15	0.0149	0.226	<0.00100	<0.00500	<0.00500	<0.000200	<0.0100	<0.00500	4.56	18.4	502	581
04/26/16	0.0309	0.351	<0.00100	**0.364**	0.0127	<0.000200	<0.0100	<0.00500	4.87	16.2	520	565
05/24/17	0.0273	0.375	<0.0100	0.00788 J	<0.0100	0.000342	<0.0150	<0.00500	4.6	13	482	545
11/29/17	<0.0100	0.212	<0.0100	<0.0100	<0.0100	<0.000200	<0.0150	<0.00500	13	19	460	570

TABLE 6
CUMULATIVE GROUNDWATER ANALYTICAL RESULTS FOR METALS AND ADDITIONAL PARAMETERS
Gladiola Station
Lea County, New Mexico
Cardno 3612

Date	Arsenic (mg/l)	Barium (mg/l)	Cadmium (mg/l)	Chromium (mg/l)	Lead (mg/l)	Mercury (mg/l)	Selenium (mg/l)	Silver (mg/l)	Chloride (mg/l)	Sulfate (mg/l)	Alkalinity (mg/l)	TDS (mg/l)
NMED WQCC HHS	**0.1**	**1**	**0.01**	**0.05**	**0.05**	**0.002**	**0.05**	**0.05**	**250.0**	**600.0**	**NA**	**1000.0**
Field Point MW-7	**Well Screen Interval (feet):**		**24.35-39.35**									
07/25/06	<0.0100	0.679	<0.00100	<0.00500	<0.00500	<0.000200	<0.0100	<0.00500	15.5	<1.00	641	800
02/07/07	0.0583	**2.46**	<0.00100	<0.00500	<0.00500	<0.000200	<0.0100	<0.00500	14.4	4.48	654	200
04/15/08	0.0513	**3.00**	0.0015	0.0051	<0.00500	<0.000200	<0.0100	<0.00500	13.6	1.46	710	744
09/20/08	0.0407	**1.92**	<0.00100	<0.00500	<0.00500	<0.000200	<0.0100	<0.00500	15.3	3.16	680	710 B
05/18/09	0.0395	**1.88**	<0.00100	<0.00500	<0.00500	<0.000200	<0.0100	<0.00500	15.7	3.10	672	748
08/19/09	0.0137	**1.86**	<0.00100	<0.00500	<0.00500	<0.000200	<0.0100	<0.00500	17.2	3.06	673	720
10/30/09	0.0112	**2.05**	<0.00100	<0.00500	<0.00500	<0.000200	<0.0100	<0.00500	16.5	3.26	645	500
10/13/11	0.014	**2.34**	<0.00100	<0.00500	0.0054	<0.000200	<0.0100	<0.00500	14.5	3.74		
Field Point MW-8	**Well Screen Interval (feet):**		**23.05-38.05**									
07/25/06	0.0153	0.328	0.0012	<0.00500	<0.00500	<0.000200	<0.0100	<0.00500	13.1	8.01	593	810
02/07/07	0.0342	0.929	<0.00100	<0.00500	<0.00500	<0.000200	<0.0100	<0.00500	11.5	22.2	707	510
04/15/08	0.035	**1.22**	0.0015	0.0078	<0.00500	<0.000200	<0.0100	<0.00500	11.6	7.4	716	688
09/20/08	0.0211	0.773	<0.00100	<0.00500	<0.00500	<0.000200	<0.0100	<0.00500	13.5	9.30	633	610
05/18/09	0.0174	0.776	<0.00100	<0.00500	<0.00500	<0.000200	<0.0100	<0.00500	11.1	8.68	535	258
08/19/09	<0.0100	**1.14**	<0.00100	<0.00500	<0.00500	<0.000200	<0.0100	<0.00500	13.3	6.57	623	676
10/30/09	<0.0100	**1.04**	<0.00100	<0.00500	<0.00500	<0.000200	<0.0100	<0.00500	14.0	7.46	599	560
Field Point MW-9	**Well Screen Interval (feet):**		**27.64-42.64**									
07/21/06	0.0298	0.918	<0.00100	0.0354	0.0078	<0.000200	<0.0100	<0.00500	103	157	1010	900
02/06/07	0.0291	0.284	<0.00100	0.0075	<0.00500	<0.000200	<0.0100	<0.00500	92	89.0	717	**1110**
04/15/08	0.0694	**1.61**	0.0023	0.0473	0.0126	<0.000200	<0.0100	<0.00500	85.5	47.5	2410	684
09/21/08	0.0274	0.100	<0.00100	<0.00500	<0.00500	<0.000200	<0.0100	<0.00500	73.3	40.7	572	520
05/18/09	0.0234	0.0961	<0.00100	<0.00500	<0.00500	<0.000200	<0.0100	<0.00500	61.0	38.3	584	644
08/19/09	0.0185	0.102	<0.00100	<0.00500	<0.00500	<0.000200	<0.0100	<0.00500	75.8	37.9	578	744
10/30/09	0.0203	0.0993	<0.00100	<0.00500	<0.00500	<0.000200	<0.0100	<0.00500	79.3	39.3	534	610
10/13/11	0.0147	0.122	<0.00100	<0.00500	0.0059	<0.000200	<0.0100	<0.00500	101	27.5		
07/17/12	0.0175	0.0972	<0.00100	<0.00500	<0.00500	<0.000200	<0.0100	<0.00500	105	21.8	516	771
10/03/12	0.0277	0.0878	<0.00100	<0.00500	<0.00500	<0.000200	<0.0100	<0.00500	105	23		**1130**
Field Point MW-10	**Well Screen Interval (feet):**		**28.08-43.08**									
07/21/06	<0.0100	0.324	<0.00100	0.0136	<0.00500	0.000822	<0.0100	<0.00500	**500**	85.2	748	**1520**
02/06/07	<0.0100	0.112	<0.00100	<0.00500	<0.00500	<0.000200	<0.0100	<0.00500	6.72	105	602	**1630**

TABLE 6
CUMULATIVE GROUNDWATER ANALYTICAL RESULTS FOR METALS AND ADDITIONAL PARAMETERS
Gladiola Station
Lea County, New Mexico
Cardno 3612

Date	Arsenic (mg/l)	Barium (mg/l)	Cadmium (mg/l)	Chromium (mg/l)	Lead (mg/l)	Mercury (mg/l)	Selenium (mg/l)	Silver (mg/l)	Chloride (mg/l)	Sulfate (mg/l)	Alkalinity (mg/l)	TDS (mg/l)
NMED WQCC HHS	**0.1**	**1**	**0.01**	**0.05**	**0.05**	**0.002**	**0.05**	**0.05**	**250.0**	**600.0**	**NA**	**1000.0**
Field Point MW-10	**Well Screen Interval (feet):**		**28.08-43.08**									
04/15/08	0.0439	0.981	0.0044	**0.0625**	0.0277	0.001950	0.0256	<0.00500	**439**	97.4	3250	**1530**
09/21/08	<0.0100	0.0858	<0.00100	<0.00500	<0.00500	<0.000200	<0.0100	<0.00500	**414**	79.6	676	**1000**
05/18/09	<0.0100	0.0839	<0.00100	<0.00500	<0.00500	<0.000200	<0.0100	<0.00500	**430**	74.1	675	**1490**
08/19/09	<0.0100	0.0763	<0.00100	<0.00500	<0.00500	0.000818	<0.0100	<0.00500	**421**	80.8	660	**1510**
10/30/09	<0.0100	0.0781	<0.00100	<0.00500	<0.00500	<0.000200	<0.0100	<0.00500	**394**	89.7	614	**1370**
10/13/11	<0.0100	0.0656	<0.00100	<0.00500	0.0057	0.000998	<0.0100	<0.00500	**356**	91.7		
07/17/12	0.0108	0.0696	<0.00100	<0.00500	<0.00500	0.000338	<0.0100	<0.00500	**283**	94.0	577	**1400**
10/03/12	<0.0100	0.0672	<0.00100	<0.00500	<0.00500	0.00106	<0.0100	<0.00500	**259**	99.2	595	**1450**
05/15/13	0.0055 J	0.0677	<0.000200	<0.0012	0.0113	<0.00015	<0.0064	<0.0013	218	95.9	585	**1400**
05/15/13 D	0.0091 J	0.0703	<0.000200	<0.0012	0.0104	<0.00015	0.0115	<0.0013	188	95.6	607	**1350**
01/29/14	0.0066 J	0.0632	<0.000200	<0.0012	<0.0035	<0.00015	<0.0064	<0.0013	161	88.7	666	**1220 B**
11/19/14	<0.0100	0.059	<0.00100	<0.00500	<0.00500	<0.000200	<0.0100	<0.00500	170	92	590	**1300**
11/19/14 D	<0.0100	0.061	<0.00100	<0.00500	<0.00500	<0.000200	<0.0100	<0.00500	170	88	600	**1300**
05/24/17	0.00638 J	0.188	<0.0100	0.00742 J	<0.0100	**0.00481**	<0.0150	0.00162 J	130	69	636	**1080**
11/29/17	0.0294	0.321	<0.0100	0.0154	<0.0100	**0.00319**	0.0184	<0.00500	130	67	691	**1080**
Field Point MW-11	**Well Screen Interval (feet):**		**29.00-44.00**									
04/30/08	<0.0100	0.159	<0.00100	<0.00500	<0.00500	0.000224	<0.0100	<0.00500	213	128	528	**1120**
09/21/08	<0.0100	0.0480	<0.00100	<0.00500	<0.00500	<0.000200	<0.0100	<0.00500	**524**	130	553	**1440**
05/18/09	<0.0100	0.0562	<0.00100	<0.00500	<0.00500	<0.000200	<0.0100	<0.00500	**503**	125	572	**1490**
08/19/09	<0.0100	0.0483	<0.00100	<0.00500	<0.00500	<0.000200	<0.0100	<0.00500	**517**	121	577	**1550**
10/30/09	<0.0100	0.0534	<0.00100	<0.00500	<0.00500	<0.000200	<0.0100	<0.00500	**502**	127	539	**1350**
10/13/11	<0.0100	0.051	<0.00100	<0.00500	0.005	<0.000200	<0.0100	<0.00500	**428**	117		
07/17/12	0.0142	0.0531	<0.00100	<0.00500	<0.00500	0.000200	<0.0100	<0.00500	**422**	124	452	**1570**
10/03/12	0.0171	0.0551	<0.00100	<0.00500	<0.00500	0.000200	<0.0100	<0.00500	**405**	121	490	**1500**
05/15/13	0.0084 J	0.054	<0.000200	<0.0012	0.0138	<0.00015	0.0239	<0.0013	**392**	123	497	**1500**
01/28/14	0.0074 J	0.0465	<0.000200	<0.0012	<0.0035	<0.00015	<0.0064	<0.0013	**393**	122	513	**1370**
06/18/14	<0.0072	0.0445	0.0007 J	<0.00300	<0.002	<0.00015	<0.00500	<0.0025	**351 B**	114	485	**1340**
11/19/14	<0.0100	0.044	<0.00100	<0.00500	<0.00500	<0.000200	<0.0100	<0.00500	**320**	120	480	**1400**
12/08/15	<0.0100	0.0462	<0.00100	<0.00500	<0.00500	<0.000200	<0.0100	<0.00500	**272**	108	498	**1270**
04/27/16	<0.0100	0.0458	<0.00100	<0.00500	<0.00500	<0.000200	<0.0100	<0.00500	**257**	99.7	479	**1250**
10/25/16	<0.0100	0.0427	<0.00100	<0.00500	<0.00500	<0.000200	<0.0100	<0.00500	**253**	<20.0	465	**1160**
05/24/17	0.00968 J	0.0387	<0.0100	<0.0100	<0.0100	<0.000200	<0.0150	<0.00500	220	120	460	**1100**

TABLE 6
CUMULATIVE GROUNDWATER ANALYTICAL RESULTS FOR METALS AND ADDITIONAL PARAMETERS
Gladiola Station
Lea County, New Mexico
Cardno 3612

Date	Arsenic (mg/l)	Barium (mg/l)	Cadmium (mg/l)	Chromium (mg/l)	Lead (mg/l)	Mercury (mg/l)	Selenium (mg/l)	Silver (mg/l)	Chloride (mg/l)	Sulfate (mg/l)	Alkalinity (mg/l)	TDS (mg/l)
NMED WQCC HHS	**0.1**	**1**	**0.01**	**0.05**	**0.05**	**0.002**	**0.05**	**0.05**	**250.0**	**600.0**	**NA**	**1000.0**
Field Point MW-11	**Well Screen Interval (feet):**		**29.00-44.00**									
11/29/17	<0.0100	0.0530	<0.0100	0.00570 J	<0.0100	<0.000200	0.0185	0.00189 J	210	110	454	**1090**
Field Point MW-12	**Well Screen Interval (feet):**		**30.00-45.00**									
04/30/08	0.0278	**2.23**	<0.00100	0.0132	0.0082	<0.000200	<0.0100	<0.00500	10.7	8.19	995	657
09/21/08	0.0238	**5.10**	0.00130	<0.00500	<0.00500	<0.000200	<0.0100	<0.00500	25.1	1.62	755	708
05/19/09	0.0233	**5.82**	<0.00100	<0.00500	<0.00500	<0.000200	<0.0100	<0.00500	30.3	<1.00	777	**2390**
08/19/09	0.0177	**6.02**	<0.00100	<0.00500	<0.00500	<0.000200	<0.0100	<0.00500	28.2	<1.00	778	750
10/30/09	0.0196	**6.63**	<0.00100	<0.00500	<0.00500	<0.000200	<0.0100	<0.00500	24.7	<1.00	727	**1260**
10/13/11	0.01	**7.88**	<0.00100	<0.00500	0.0063	<0.000200	<0.0100	<0.00500	17.5	1.32		
07/17/12	0.0133	**8.44**	<0.00100	<0.00500	<0.00500	<0.000200	<0.0100	<0.00500	13.4	1.18	707	757
10/03/12	<0.0100	**8.32**	<0.00100	<0.00500	<0.00500	<0.000200	<0.0100	<0.00500	15.3	<1.00	694	724
Field Point MW-13	**Well Screen Interval (feet):**		**30.00-45.00**									
04/30/08	0.0221	**1.41**	<0.00100	0.0134	0.0104	<0.000200	<0.0100	<0.00500	61.9	209	870	**1920 A-01**
09/21/08	0.0377	**3.54**	<0.00100	<0.00500	<0.00500	<0.000200	<0.0100	<0.00500	4.62	1.20	751	748
05/19/09	0.0321	**4.04**	<0.00100	<0.00500	<0.00500	<0.000200	<0.0100	<0.00500	5.99	<1.00	800	252
08/19/09	0.0249	**4.44**	<0.00100	<0.00500	<0.00500	<0.000200	<0.0100	<0.00500	4.76	<1.00	781	800
10/30/09	0.0275	**4.47**	<0.00100	<0.00500	<0.00500	<0.000200	<0.0100	<0.00500	5.99	1.4	745	580
Field Point MW-14	**Well Screen Interval (feet):**		**27.00-42.00**									
04/30/08	0.0172	0.193	<0.00100	0.0063	<0.00500	<0.000200	<0.0100	<0.00500	5.21	195	780	919
09/21/08	0.0572	0.181	<0.00100	<0.00500	<0.00500	<0.000200	<0.0100	<0.00500	4.71	19.7	647	
05/19/09	0.0159	0.165	<0.00100	<0.00500	<0.00500	<0.000200	<0.0100	<0.00500	4.85	11.2	663	698
08/19/09	0.0271	0.196	<0.00100	<0.00500	<0.00500	<0.000200	<0.0100	<0.00500	5.14	15.7	656	702
10/30/09	0.0261	0.196	<0.00100	<0.00500	<0.00500	<0.000200	<0.0100	<0.00500	5.01	16.7	604	510
10/13/11	0.0325	0.38	<0.00100	<0.00500	0.0058	<0.000200	<0.0100	<0.00500	4.42	17.7		
07/17/12	0.0592	0.318	<0.00100	<0.00500	<0.00500	<0.000200	<0.0100	<0.00500	3.82	26.2	582	712
10/03/12	0.0308	0.294	<0.00100	<0.00500	<0.00500	<0.000200	<0.0100	<0.00500	4.47	20.3	593	733
Field Point MW-15	**Well Screen Interval (feet):**		**29.00-44.00**									
04/30/08	0.0259	**2.16**	<0.00100	0.0152	0.0084	<0.000200	<0.0100	0.0065	8.74	31.9	1050	641
09/21/08	0.0282	**5.87**	0.0014	<0.00500	<0.00500	<0.000200	<0.0100	<0.00500	10.4	1.02	808	
05/19/09	0.0267	**6.47**	<0.00100	<0.00500	<0.00500	<0.000200	<0.0100	<0.00500	10.0	<1.00	886	850

TABLE 6
CUMULATIVE GROUNDWATER ANALYTICAL RESULTS FOR METALS AND ADDITIONAL PARAMETERS
Gladiola Station
Lea County, New Mexico
Cardno 3612

Date	Arsenic (mg/l)	Barium (mg/l)	Cadmium (mg/l)	Chromium (mg/l)	Lead (mg/l)	Mercury (mg/l)	Selenium (mg/l)	Silver (mg/l)	Chloride (mg/l)	Sulfate (mg/l)	Alkalinity (mg/l)	TDS (mg/l)
NMED WQCC HHS	**0.1**	**1**	**0.01**	**0.05**	**0.05**	**0.002**	**0.05**	**0.05**	**250.0**	**600.0**	**NA**	**1000.0**
Field Point MW-15	**Well Screen Interval (feet):**		**29.00-44.00**									
08/19/09	0.0254	**6.05**	<0.00100	<0.00500	<0.00500	<0.000200	<0.0100	<0.00500	11.6	<1.00	891	850
10/30/09	0.0256	**4.5**	<0.00100	<0.00500	<0.00500	<0.000200	<0.0100	<0.00500	5.41	<1.00	738	570
Field Point MW-16	**Well Screen Interval (feet):**		**26.50-41.50**									
04/30/08	0.0107	**1.02**	<0.00100	0.0097	0.0058	<0.000200	<0.0100	<0.00500	16.6	52.5	750	726 A-01
09/21/08	0.0153	**1.40**	<0.00100	<0.00500	<0.00500	<0.000200	<0.0100	<0.00500	9.87	3.28	762	716
05/18/09	0.0167	**1.59**	<0.00100	<0.00500	<0.00500	<0.000200	<0.0100	<0.00500	8.84	1.69	783	776
08/19/09	0.0136	**1.73**	<0.00100	<0.00500	<0.00500	<0.000200	<0.0100	<0.00500	9.37	1.67	791	750
10/30/09	0.0136	**1.79**	<0.00100	<0.00500	<0.00500	<0.000200	<0.0100	<0.00500	8.38	1.83	732	410
10/30/09 D	0.0152	**2.04**	<0.00100	<0.00500	<0.00500	<0.000200	<0.0100	<0.00500	8.8	1.51	730	260
10/13/11	0.0142	**2.21**	0.0051	<0.00500	0.0074	<0.000200	<0.0100	<0.00500	6.19	2.08		
07/17/12	0.0147	**1.86**	<0.00100	<0.00500	<0.00500	<0.000200	<0.0100	<0.00500	4.83	2.32	726	788
10/03/12	0.0193	**1.93**	<0.00100	<0.00500	<0.00500	<0.000200	<0.0100	<0.00500	7	1.81	721	769
Field Point MW-17	**Well Screen Interval (feet):**		**29.50-44.50**									
08/19/09	0.0475	**1.98**	<0.00100	<0.00500	<0.00500	<0.000200	<0.0100	<0.00500	11.7	1.09	748	725
10/30/09	0.0541	**1.69**	<0.00100	<0.00500	<0.00500	<0.000200	<0.0100	<0.00500	11	<1.00	719	210
10/13/11	0.036	**3.61**	<0.00100	<0.00500	0.0065	<0.000200	<0.0100	<0.00500	7.35	1.34		
07/17/12	0.0238	0.0206	<0.00100	<0.00500	<0.00500	<0.000200	<0.0100	<0.00500	5.93	1.43	714	747
10/03/12	0.0418	**4.51**	<0.00100	<0.00500	<0.00500	<0.000200	<0.0100	<0.00500	7.12	<1.00	698	718
11/29/17	0.0192	**10.2**	<0.0100	<0.0100	<0.0100	<0.000200	<0.0150	<0.00500	14	0.55 J	896	815
Field Point MW-18	**Well Screen Interval (feet):**		**27.00-42.00**									
08/19/09	0.0178	0.144	<0.00100	<0.00500	<0.00500	<0.000200	<0.0100	<0.00500	113	232	961	**1510**
10/30/09	0.0377	0.249	<0.00100	<0.00500	<0.00500	<0.000200	<0.0100	<0.00500	28.1	42.8	989	890
10/13/11	0.0102	0.138	<0.00100	<0.00500	0.0065	<0.000200	<0.0100	<0.00500	46.6	15.7		
Field Point MW-19	**Well Screen Interval (feet):**		**27.00-42.00**									
08/19/09	0.0203	0.0352	<0.00100	<0.00500	<0.00500	<0.000200	<0.0100	<0.00500	29.6	145	224	554
10/30/09	0.0169	0.0374	<0.00100	<0.00500	<0.00500	<0.000200	<0.0100	<0.00500	23.1	148	209	380
10/13/11	0.0197	0.0321	<0.00100	<0.00500	0.0052	<0.000200	<0.0100	<0.00500	30	140		
07/17/12	0.0237	0.0357	<0.00100	<0.00500	<0.00500	<0.000200	<0.0100	<0.00500	32.2	150	196	595
10/03/12	0.0308	0.0271	<0.00100	<0.00500	<0.00500	<0.000200	<0.0100	<0.00500	33.8	151	195	579

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Gladiola Station
Lea County, New Mexico
Cardno 3612

Date	Arsenic (mg/l)	Barium (mg/l)	Cadmium (mg/l)	Chromium (mg/l)	Lead (mg/l)	Mercury (mg/l)	Selenium (mg/l)	Silver (mg/l)	Chloride (mg/l)	Sulfate (mg/l)	Alkalinity (mg/l)	TDS (mg/l)
NMED WQCC HHS	**0.1**	**1**	**0.01**	**0.05**	**0.05**	**0.002**	**0.05**	**0.05**	**250.0**	**600.0**	**NA**	**1000.0**
Field Point MW-19	**Well Screen Interval (feet):**		**27.00-42.00**									
05/15/13	0.0185	0.0307	<0.000200	<0.0012	0.0099	<0.00015	<0.0064	<0.0013	36	156	189	585
01/29/14	0.028	0.0281	<0.000200	<0.0012	0.0039 J	<0.00015	<0.0064	<0.0013	40.9	163	203	570 B
06/18/14	0.0161	0.0247	0.0006 J	<0.00300	<0.002	<0.00015	0.0083 J	<0.0025	43.6 B	176	192	621
11/18/14	0.02	0.023	<0.00100	<0.00500	0.0098	<0.000200	<0.0100	<0.00500	43	170	190	610
12/09/15	0.0275	0.0242	<0.00100	<0.00500	<0.00500	<0.000200	<0.0100	<0.00500	41.2	162	234	610
04/27/16	0.0253	0.0265	<0.00100	<0.00500	<0.00500	<0.000200	0.0108	<0.00500	39.5	131	248	623
10/25/16	0.0240	0.0288	<0.00100	<0.00500	<0.00500	<0.000200	<0.0100	<0.00500	32.7	152	296	617
05/24/17	0.0327	0.0496	<0.0100	<0.0100	<0.0100	<0.000200	<0.0150	<0.00500	25	150	342	620
11/29/17	0.0382	0.0579	<0.0100	**0.116**	<0.0100	<0.000200	0.00751 J	<0.00500	23	130	361	605
Field Point MW-20	**Well Screen Interval (feet):**		**29.50-44.50**									
08/19/09	<0.0100	0.0908	<0.00100	<0.00500	<0.00500	<0.000200	0.015	<0.00500	**440**	417	187	**1580**
10/30/09	<0.0100	0.0705	<0.00100	<0.00500	<0.00500	<0.000200	0.0148	<0.00500	**301**	386	235	**1230**
10/13/11	<0.0100	0.0521	<0.00100	<0.00500	0.0057	<0.000200	0.0212	<0.00500	**391**	428		
07/17/12	0.0115	0.0481	<0.00100	<0.00500	<0.00500	<0.000200	0.0295	<0.00500	**423**	528	241	**1870**
10/03/12	0.0183	0.0476	<0.00100	<0.00500	<0.00500	<0.000200	0.0382	<0.00500	**506**	**682**	208	**2090**
05/15/13	0.0167	0.0377	<0.000200	<0.0012	<0.0017	<0.00015	0.0446	<0.0013	**551**	**786**	226	**2370**
01/29/14	0.0152	0.0321	<0.000200	<0.0012	<0.0035	0.00042	0.0402	<0.0013	**538**	**719**	268	**2170 B**
06/18/14	<0.0072	0.0322	0.0009 J	<0.00300	<0.002	0.000203	0.0354	<0.0025	**527 B**	**756**	257	**2280**
11/18/14	<0.0100	0.04	<0.00100	<0.00500	<0.00500	<0.000200	0.024	<0.00500	**530**	**710**	250	**2100**
Field Point MW-21	**Well Screen Interval (feet):**		**29.50-44.50**									
08/19/09	0.0248	0.0263	<0.00100	<0.00500	<0.00500	<0.000200	0.0126	<0.00500	38.8	**666**	248	**1360**
10/30/09	0.0245	0.0216	<0.00100	<0.00500	<0.00500	<0.000200	0.0146	<0.00500	39.3	**816**	222	**1340**
10/13/11	0.0311	0.0155	0.004	<0.00500	0.0052	<0.000200	0.0107	<0.00500	26.7	**634**		
07/17/12	0.0349	0.0161	<0.00100	<0.00500	<0.00500	<0.000200	<0.0100	<0.00500	21.1	559	232	**1270**
10/03/12	0.0435	0.0131	<0.00100	<0.00500	<0.00500	<0.000200	0.011	<0.00500	23.3	597	242	**1260**
05/15/13	0.0251	0.0154	<0.000200	<0.0012	0.0082	<0.00015	0.0224	<0.0013	18.9	535	239	**1140**
01/29/14	0.0355	0.0132	<0.000200	<0.0012	<0.0035	<0.00015	<0.0064	<0.0013	14.7	422	263	972 B
06/18/14	0.0307	0.0125	0.0008 J	<0.00300	<0.002	<0.00015	0.008 J	<0.0025	12.8 B	383	353	932
11/18/14	0.0310	0.013	<0.00100	<0.00500	<0.00500	<0.000200	<0.0100	<0.00500	12	360	250	860
12/08/15	0.0344	0.0138	<0.00100	<0.00500	<0.00500	<0.000200	<0.0100	<0.00500	10.3	323	286	875
04/27/16	0.0355	0.0145	<0.00100	<0.00500	<0.00500	<0.000200	<0.0100	<0.00500	9.67	306	288	849

TABLE 6
CUMULATIVE GROUNDWATER ANALYTICAL RESULTS FOR METALS AND ADDITIONAL PARAMETERS
Gladiola Station
Lea County, New Mexico
Cardno 3612

Date	Arsenic (mg/l)	Barium (mg/l)	Cadmium (mg/l)	Chromium (mg/l)	Lead (mg/l)	Mercury (mg/l)	Selenium (mg/l)	Silver (mg/l)	Chloride (mg/l)	Sulfate (mg/l)	Alkalinity (mg/l)	TDS (mg/l)
NMED WQCC HHS	**0.1**	**1**	**0.01**	**0.05**	**0.05**	**0.002**	**0.05**	**0.05**	**250.0**	**600.0**	**NA**	**1000.0**
Field Point MW-21	**Well Screen Interval (feet):**		**29.50-44.50**									
10/25/16	0.0341	0.0157	<0.00100	0.0154	<0.00500	<0.000200	<0.0100	<0.00500	13.4	322	281	828
Field Point MW-22	**Well Screen Interval (feet):**		**30.00-45.00**									
10/30/09	0.013	0.0376	<0.00100	<0.00500	<0.00500	<0.000200	<0.0100	<0.00500	42.4	266	213	630
10/13/11	0.018	0.023	<0.00100	<0.00500	0.0059	<0.000200	<0.0100	<0.00500	41.3	288		
07/17/12	0.0353	**4.49**	<0.00100	<0.00500	<0.00500	<0.000200	<0.0100	<0.00500	40.1	274	206	806
10/03/12	0.0232	0.0197	<0.00100	<0.00500	<0.00500	<0.000200	<0.0100	<0.00500	42.5	280	223	792
05/15/13	0.0209	0.0204	<0.000200	<0.0012	0.0085	<0.00015	0.0161	<0.0013	41.7	293	212	782
01/29/14	0.0288	0.0191	<0.000200	<0.0012	0.0044 J	<0.00015	0.0066 J	<0.0013	42.8	242	236	750 B
01/29/14 D	0.0299	0.0188	<0.000200	<0.0012	<0.00035	<0.00015	0.0067 J	<0.0013	42.8	257	233	750 B
06/18/14	0.0179	0.0192	0.0007 J	<0.00300	<0.002	<0.000150	0.0096 J	<0.0025	42.7 B	248	221	776
11/19/14	0.019	0.018	<0.00100	<0.00500	<0.00500	<0.000200	<0.0100	<0.00500	41	240	230	800
12/08/15	0.0176	0.0221	<0.00100	<0.00500	<0.00500	<0.000200	<0.0100	<0.00500	33.2	204	260	689
04/27/16	0.0201	0.0215	<0.00100	<0.00500	<0.00500	<0.000200	<0.0100	<0.00500	33.6	184	256	664
10/25/16	0.0190	0.0283	<0.00100	0.00700	<0.00500	<0.000200	<0.0100	<0.00500	37.4	22.4	236	709
05/24/17	0.0141	0.0199	<0.0100	<0.0100	<0.0100	<0.000200	<0.0150	<0.00500	32	200	260	650
11/29/17	0.0194	0.0259	<0.0100	<0.0100	<0.0100	<0.000200	<0.0150	<0.00500	32	190	250	675
Field Point MW-23	**Well Screen Interval (feet):**		**31.00-46.00**									
02/22/12	0.0258	0.061	<0.00100	<0.00500	<0.00500	<0.000200	<0.0100	<0.00500				
07/17/12	0.0307	0.0392	<0.00100	<0.00500	<0.00500	<0.000200	<0.0100	<0.00500	3.06	91.9	425	652
10/03/12	0.0335	0.0334	<0.00100	<0.00500	<0.00500	<0.000200	<0.0100	<0.00500	3.34	79.4	412	654
05/15/13	0.0259	0.037	<0.000200	<0.0012	0.0065	<0.00015	0.0129	<0.0013	2.85	73.6 J	377	635
01/29/14	0.0343	0.0385	<0.000200	<0.0012	0.0052	<0.00015	<0.0064	<0.0013	3.76	109	393	597 B
06/18/14	0.0308	0.0889	0.0007 J	0.0035 J	0.0027 J	<0.00015	0.0063 J	<0.0025	4.27 B	111	370	628
11/18/14	0.033	0.053	<0.00100	<0.00500	<0.00500	<0.000200	<0.0100	<0.00500	3.9	100	370	630
12/08/15	0.0452	0.102	<0.00100	<0.00500	<0.00500	<0.000200	<0.0100	<0.00500	4.59	42.9	476	624
04/27/16	0.0577	0.768	<0.00100	**0.0832**	0.0314	<0.000200	<0.0100	<0.00500	6.70	51.9	429	607
Field Point MW-25	**Well Screen Interval (feet):**		**28.00-43.00**									
02/22/12	0.062	**7.1**	<0.00100	<0.00500	<0.00500	<0.000200	<0.0100	<0.00500				

TABLE 6
CUMULATIVE GROUNDWATER ANALYTICAL RESULTS FOR METALS AND ADDITIONAL PARAMETERS
Gladiola Station
Lea County, New Mexico
Cardno 3612

Date	Arsenic (mg/l)	Barium (mg/l)	Cadmium (mg/l)	Chromium (mg/l)	Lead (mg/l)	Mercury (mg/l)	Selenium (mg/l)	Silver (mg/l)	Chloride (mg/l)	Sulfate (mg/l)	Alkalinity (mg/l)	TDS (mg/l)
NMED WQCC HHS	**0.1**	**1**	**0.01**	**0.05**	**0.05**	**0.002**	**0.05**	**0.05**	**250.0**	**600.0**	**NA**	**1000.0**
Field Point MW-26	**Well Screen Interval (feet):**		**30.00-45.00**									
02/22/12	0.0135	0.0408	<0.00100	<0.00500	<0.00500	<0.000200	<0.0100	<0.00500				
07/17/12	0.0123	0.0391	<0.00100	<0.00500	<0.00500	<0.000200	<0.0100	<0.00500	19.5	136	304	723
10/03/12	0.0198	0.0296	<0.00100	<0.00500	<0.00500	<0.000200	<0.0100	<0.00500	24	165	307	736
05/15/13	0.019	0.0366	<0.000200	<0.0012	<0.0017	<0.00015	0.0085 J	<0.0013	25.6	196	303	769
01/29/14	0.0159	0.0335	<0.000200	<0.0012	<0.0035	<0.00015	<0.0064	<0.0013	26.6	192	332	751 B
06/18/14	0.0133	0.0508	0.0006 J	<0.00300	<0.002	<0.00015	0.0068 J	<0.0025	25.3 B	188	307	787
11/19/14	0.015	0.031	<0.00100	<0.00500	<0.00500	<0.000200	<0.0100	<0.00500	25	220	320	830
12/08/15	0.0161	0.0530	<0.00100	<0.00500	<0.00500	<0.000200	<0.0100	<0.00500	24.8	204	336	781
04/27/16	0.0165	0.111	<0.00100	<0.00500	0.00600	0.000399	<0.0100	<0.00500	31.7	98.6	308	771
10/25/16	0.0300	**1.37**	0.00120	0.0404	0.0182	<0.000200	<0.0100	<0.00500	26.2	236	339	806
05/24/17	<0.0100	0.136	<0.0100	<0.0100	<0.0100	0.000162 J	<0.0150	<0.00500	28	220	317	755
11/29/17	0.0127	0.0633	<0.0100	<0.0100	<0.0100	<0.000200	<0.0150	<0.00500	24	200	355	735
Field Point SB-1GW	**Grab Groundwater Sample**											
10/28/11	<0.0100	0.0808	<0.00100	<0.00500	0.0053	<0.000200	<0.0100	<0.00500	9.4	77.8		
Field Point SB-2GW	**Grab Groundwater Sample**											
10/28/11	0.0139	0.134	<0.00100	<0.00500	<0.00500	<0.000200	<0.0100	<0.00500	156	307		
Field Point SB-3GW	**Grab Groundwater Sample**											
10/28/11	0.0338	**7.8**	<0.00100	<0.00500	<0.00500	<0.000200	<0.0100	<0.00500	2.84	2.3		
Field Point SB-4GW	**Grab Groundwater Sample**											
10/28/11	0.0296	**3.44**	<0.00100	<0.00500	<0.00500	<0.000200	<0.0100	<0.00500	5.9	2.8		
Field Point SB-5GW	**Grab Groundwater Sample**											
10/28/11	<0.0100	0.0971	<0.00100	<0.00500	<0.00500	<0.000200	0.0105	<0.00500	180	421		
Field Point SB-6GW	**Grab Groundwater Sample**											
10/28/11	0.0116	0.0343	<0.00100	<0.00500	<0.00500	<0.000200	<0.0100	<0.00500	7.04	290		
Field Point SB-7GW	**Grab Groundwater Sample**											
10/28/11	<0.0100	0.465	<0.00100	<0.00500	<0.00500	<0.000200	<0.0100	<0.00500	4.58	38.6		

TABLE 6

CUMULATIVE GROUNDWATER ANALYTICAL RESULTS FOR METALS AND ADDITIONAL PARAMETERS

Gladiola Station

Lea County, New Mexico

Cardno 3612

Notes: Data collected prior to December 8, 2015 provided by AECOM.
ELEV = Elevation.
GW = Groundwater.
NAPL = Non-aqueous phase liquid.
Groundwater elevations are adjusted for NAPL thickness using a relative density of 0.83.
NMED WQCC HHS = New Mexico Environmental Department Water Quality Control Commission Human Health Standard for groundwater with 10,000 mg/l TDS or less.
Bolded values equal or exceed applicable regulatory limits.
Naphthalene is analyzed by EPA Method 8270C unless otherwise noted.
Total naphthalenes are the sum of 1- and 2-methylnaphthalene and naphthalene.
TDS = Total dissolved solids.
mg/l = Milligrams per liter.
BDL = Below laboratory detection limits.
< = Not detected at or above stated laboratory reporting limit.
A-01 = Could not obtain constant weight.
D = Duplicate sample.
J = Estimated value between method detection limit and practical quantitation limit.
R1 = The relative percent difference between the primary and confirmatory analysis exceeded 40%; the higher value was reported.
R10 = The relative percent difference between the primary and confirmatory analysis exceeded 40%; the lower value was reported due to apparent chromatographic problems.
R12 = The relative percent difference between the primary and confirmatory analysis exceeded 40%; the lower value was reported.
X = Pre-purge/no-purge sample.
(a) = Analyzed by EPA Method 8310.
(b) = Analyzed by EPA Method 8260B.
(c) = Analyzed method unknown.
(d) = Analyzed to determine the presense of NAPL.

TABLE 7
CONSTITUENTS DETECTED IN GROUNDWATER BY FULL SCAN 8260B - CUMULATIVE DATA
(EXCEPT BTEX AND FUEL OXYGENATES)
Gladiola Station
Lea County, New Mexico
Cardno 3612

Date	Acetone (2-propanone) (mg/l)	2-Butanone (MEK) (mg/l)	1,2-Dichloroethane (mg/l)	Isopropylbenzene (mg/l)	Naphthalene (mg/l)	n-Butylbenzene (mg/l)	n-Propylbenzene (mg/l)	p-Isopropyltoluene (mg/l)	sec-Butylbenzene (mg/l)	tert-Butylbenzene (mg/l)	1,2,4-Trimethylbenzene (mg/l)	1,3,5-Trimethylbenzene (mg/l)
NMED WQCC HHS	**NA**	**NA**	**0.01**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**
Field Point MW-6												
05/24/17	0.0041 J					0.00028 J		0.00031 J	0.00084	0.00027 J	0.00094	0.0021
11/29/17	0.0045 J					0.00022 J		0.00077	0.00047 J		0.0011	0.0017
Field Point MW-10												
05/24/17												
11/29/17	0.0056 J								0.00036 J			
Field Point MW-11												
05/24/17												
11/29/17	0.0067 J				0.0013 J	0.00061		0.00024 J	0.00025 J		0.0014	0.00056
Field Point MW-17												
11/29/17				0.056	0.087 J	0.0058 J	0.051		0.0070 J		0.17	0.023
Field Point MW-19												
05/24/17		0.0045 J		0.0068	0.0017 J	0.0022	0.0037	0.0027	0.0024	0.00079	0.020	0.021
11/29/17	0.0052 J	0.0023 J		0.0057	0.00055 J	0.0023	0.0036	0.0024	0.0023	0.00068	0.026	0.021
Field Point MW-22												
05/24/17												
11/29/17	0.0068 J											
Field Point MW-26												
05/24/17			0.0011		0.00077 J						0.0014	
11/29/17											0.00045 J	

TABLE 7

CONSTITUENTS DETECTED IN GROUNDWATER BY FULL SCAN 8260B - CUMULATIVE DATA

(EXCEPT BTEX AND FUEL OXYGENATES)

Gladiola Station

Lea County, New Mexico

Cardno 3612

Notes: Data collected prior to December 8, 2015 provided by AECOM.
ELEV = Elevation.
GW = Groundwater.
NAPL = Non-aqueous phase liquid.
Groundwater elevations are adjusted for NAPL thickness using a relative density of 0.83.
NMED WQCC HHS = New Mexico Environmental Department Water Quality Control Commission Human Health Standard for groundwater with 10,000 mg/l TDS or less.
Bolded values equal or exceed applicable regulatory limits.
Naphthalene is analyzed by EPA Method 8270C unless otherwise noted.
Total naphthalenes are the sum of 1- and 2-methylnaphthalene and naphthalene.
TDS = Total dissolved solids.
mg/l = Milligrams per liter.
BDL = Below laboratory detection limits.
< = Not detected at or above stated laboratory reporting limit.
A-01 = Could not obtain constant weight.
D = Duplicate sample.
J = Estimated value between method detection limit and practical quantitation limit.
R1 = The relative percent difference between the primary and confirmatory analysis exceeded 40%; the higher value was reported.
R10 = The relative percent difference between the primary and confirmatory analysis exceeded 40%; the lower value was reported due to apparent chromatographic problems.
R12 = The relative percent difference between the primary and confirmatory analysis exceeded 40%; the lower value was reported.
X = Pre-purge/no-purge sample.
(a) = Analyzed by EPA Method 8310.
(b) = Analyzed by EPA Method 8260B.
(c) = Analyzed method unknown.
(d) = Analyzed to determine the presense of NAPL.

Unless noted otherwise, all sampled wells were analyzed by EPA Method 8260B full scan.
Note: table only reflects concentrations above the laboratory reporting limit. Refer to the laboratory report for the reporting limit and dilution factor.

TABLE 8
CUMULATIVE SOIL ANALYTICAL RESULTS
Gladiola Station
Lea County, New Mexico
Cardno 3612

Sample ID	Sampling Date	Depth (feet)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl-benzene (mg/kg)	Xylenes (mg/kg)	TPHd (mg/kg)	TPHg (mg/kg)
SB-1	05/14/04	0-2	<0.001	<0.001	<0.001	<0.001	<5	<0.1
SB-1	05/14/04	4-5	<0.001	<0.001	<0.001	<0.001	6.7	<0.1
SB-2 (MW-1)	05/13/04	4-5	<0.100	<0.100	2.1	4.24	3,300	750
SB-2 (MW-1)	05/13/04	14-15	<0.025	<0.025	0.61	2.288	1,200	190
SB-2 (MW-1)	05/13/04	29-30	<0.025	0.063	0.47	1.38	360	56
SB-2 (MW-1)	05/13/04	39-40	<0.001	<0.001	<0.001	<0.001	9	0.11
SB-3	05/12/04	4-5	<0.001	<0.001	<0.001	<0.001	23	<0.1
SB-3	05/12/04	19-20	<0.001	<0.001	<0.001	<0.001	<5	<0.1
SB-3	05/12/04	29-30	<0.250	2.2	6.2	16.2	56	380
SB-3	05/12/04	39-40	<0.001	<0.001	<0.001	0.0018	14	0.11
SB-4	05/13/04	4-5	0.14	0.11	1.5	1.41	4,000	480
SB-4	05/13/04	14-15	0.47	<0.100	5.8	21.2	3,900	1100
SB-4	05/13/04	29-30	<0.025	<0.025	0.18	0.29	270	30
SB-4	05/13/04	34-35	<0.025	<0.025	0.11	0.18	330	20
SB-5 (MW-2)	05/13/04	34-35	0.0022	0.018	0.073	0.103	240	15
SB-5 (MW-2)	05/13/04	39-40	<0.001	<0.001	0.0018	0.0034	9.7	0.62
SB-6 (MW-3)	05/13/04	0-3	<0.001	<0.001	<0.001	<0.001	18	<0.1
SB-6 (MW-3)	05/13/04	24-25	<0.001	<0.001	<0.001	<0.001	6	<0.1
SB-6 (MW-3)	05/13/04	44-45	<0.001	<0.001	<0.001	<0.001	13	0.21
SB-7	05/14/04	24-25	<0.001	<0.001	<0.001	<0.001	8.1	<0.1
MW-4	06/14/06	9-10	0.134	0.177	2.8	13.6	2,740	713
MW-4	06/14/06	19-20	<0.00101	<0.00101	<0.00101	<0.00303	68.7	<0.101
MW-4	06/14/06	24-25	<0.00101	<0.00101	<0.00101	<0.00300	117	0.186
MW-5	06/14/06	9-10	0.00144	0.00142	<0.000994	<0.00298	17.9	<0.0994
MW-5	06/14/06	14-15	0.00268	0.00208	<0.000990	<0.00297	9.76	<0.0990
MW-6	06/14/06	4-5	0.00132	0.00134	<0.00100	<0.00301	202	<0.100
MW-6	06/14/06	19-20	0.00156	0.00133	<0.00101	<0.00302	<4.93	<0.101
MW-6	06/14/06	24-25	<0.00100	<0.00100	<0.00100	<0.00300	<4.92	<0.100
MW-7	06/15/06	9-10	<0.000990	<0.000990	<0.000990	<0.00297	<4.90	<0.0990
MW-7	06/15/06	19-20	<0.000990	<0.000990	<0.000990	<0.00297	<4.83	<0.0990
MW-7	06/15/06	24-25	<0.00100	0.001	0.00146	0.00541	171	0.713
MW-8	06/15/06	9-10	<0.00100	<0.00100	<0.00100	0.00387	1,720	0.224
MW-8	06/15/06	14-15	<0.00101	<0.00101	<0.00101	<0.00302	538	<0.101
MW-8	06/15/06	24-25	<0.00101	<0.00101	<0.00101	<0.00302	37.7	<0.101
MW-9	06/13/06	4-5	0.00242	0.00299	<0.00101	<0.00303	<4.82	<0.101
MW-9	06/13/06	14-15	<0.00100	<0.00100	<0.00100	<0.00300	<4.83	<0.100
MW-9	06/13/06	29-30	<0.00101	<0.00101	<0.00101	<0.00303	24.5	<0.101
MW-10	06/13/06	9-10	<0.00100	<0.00100	<0.00100	<0.00301	<4.82	<0.100
MW-10	06/13/06	19-20	<0.000990	<0.000990	<0.000990	<0.00297	<4.93	<0.0990
MW-10	06/13/06	24-25	0.00144	0.00142	<0.00101	<0.00303	<4.85	<0.101

TABLE 8
CUMULATIVE SOIL ANALYTICAL RESULTS
Gladiola Station
Lea County, New Mexico
Cardno 3612

Sample ID	Sampling Date	Depth (feet)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl-benzene (mg/kg)	Xylenes (mg/kg)	TPHd (mg/kg)	TPHg (mg/kg)
SB-9	06/15/06	9-10	<0.00100	<0.00100	<0.00100	<0.00301	<4.83	<0.100
SB-9	06/15/06	14-15	<0.000990	<0.000990	<0.000990	<0.00297	<4.84	<0.0990
SB-9	06/15/06	24-25	<0.00101	<0.00101	<0.00101	<0.00303	9.42	<0.101
SB-11	06/14/06	4-5	<0.00100	<0.00100	<0.00100	<0.00301	5.88	<0.100
SB-11	06/14/06	14-15	<0.00101	<0.00101	<0.00101	<0.00303	<4.98	<0.101
SB-11	06/14/06	24-25	<0.00100	<0.00100	<0.00100	<0.00301	<4.81	<0.100
MW-11	04/28/08	4-5	0.00163	<0.000971	<0.000971	<0.00291	<4.95	<0.0971
MW-11	04/28/08	14-15	<0.00100	<0.00100	<0.00100	<0.00300	<4.91	<0.100
MW-11	04/28/08	19-20	0.00109	<0.000986	<0.000986	<0.00296	<4.96	<0.0986
MW-11	04/28/08	34-35	<0.000978	<0.000978	<0.000978	<0.00294	<4.96	<0.0978
MW-12	04/29/08	4-5	0.00272	<0.000952	<0.000952	<0.00286	<4.91	<0.0952
MW-12	04/29/08	14-15	<0.000986	<0.000986	<0.000986	<0.00296	<4.90	<0.0986
MW-12	04/29/08	24-25	0.001	<0.000945	<0.000945	<0.00284	<4.86	<0.0945
MW-12	04/29/08	29-30	<0.000988	<0.000988	<0.000988	<0.00296	52.4	<0.0988
MW-13	04/29/08	4-5	0.00178	0.000951	0.000951	<0.00285	<4.92	<0.0951
MW-13	04/29/08	9-10	<0.000945	<0.000945	<0.000945	<0.00284	<4.86	<0.0945
MW-13	04/29/08	24-25	0.00124	<0.000996	<0.000996	<0.00299	<4.83	<0.0996
MW-13	04/29/08	29-30	<0.000977	0.0439	0.00549	0.274	577	9.94
MW-14	04/29/08	4-5	0.0019	<0.000947	<0.000947	<0.00284	<4.84	<0.0947
MW-14	04/29/08	9-10	<0.000980	<0.000980	<0.000980	<0.00294	<4.82	<0.0980
MW-14	04/29/08	19-20	<0.000971	<0.000971	<0.000971	<0.00291	<4.95	<0.0971
MW-14	04/29/08	29-30	<0.000984	<0.000984	<0.000984	<0.00295	133	<0.0984
MW-15	04/29/08	4-5	0.00167	<0.000988	<0.000988	<0.00296	<4.85	<0.0988
MW-15	04/29/08	9-10	<0.000998	<0.000998	<0.000998	<0.00299	<4.97	<0.0998
MW-15	04/29/08	24-25	<0.000975	<0.000975	<0.000975	<0.00292	11.4	<0.0975
MW-15	04/29/08	29-30	<0.000977	<0.000977	<0.000977	0.00602	175	0.94
MW-16	04/28/08	4-5	0.00159	<0.000984	<0.000984	<0.00295	<4.97	<0.0984
MW-16	04/28/08	14-15	<0.000998	<0.000998	<0.000998	<0.00299	<4.89	<0.0998
MW-16	04/28/08	19-20	<0.000988	<0.000988	<0.000988	<0.00296	<4.97	<0.0988
MW-16	04/28/08	29-30	<0.000988	<0.000988	<0.000988	<0.00296	35.5	<0.0988
SB-12	04/29/08	9-10	0.00382	2.51	0.0512	13.6	3,820	679
SB-12	04/29/08	14-15	0.00226	2.2	0.118	16	4,310	419
SB-12	04/29/08	29-30	0.00381	1.56	0.0913	7.67	1,300	250
SB-13	04/29/08	4-5	<0.000967	<0.000967	<0.000967	<0.00290	9.25	0.294
SB-13	04/29/08	19-20	<0.000992	<0.000992	<0.000992	<0.00298	<4.99	<0.0992
SB-13	04/29/08	29-30	<0.000978	<0.000978	<0.000978	<0.00294	<4.84	<0.0978
MW-17	08/13/09	5-10	<0.000870	<0.000870	<0.000870	<0.00261	9.69	<0.0870
MW-17	08/13/09	15-20	<0.000917	<0.000917	<0.000917	<0.00275	14.7	<0.0917
MW-17	08/13/09	20-25	<0.000982	<0.000982	<0.000982	<0.00295	<4.96	<0.0982
MW-17	08/13/09	30-35	<0.000963	<0.000963	<0.000963	<0.00289	48.3	<0.0963
MW-18	08/13/09	0-5	<0.000960	<0.000960	<0.000960	<0.00288	5.7	<0.0960
MW-18	08/13/09	15-20	<0.00931	<0.00931	<0.00931	<0.00279	<4.90	<0.0931
MW-18	08/13/09	25-30	0.00153	0.009	0.00503	0.0957	296	3.89

TABLE 8
CUMULATIVE SOIL ANALYTICAL RESULTS
Gladiola Station
Lea County, New Mexico
Cardno 3612

Sample ID	Sampling Date	Depth (feet)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl-benzene (mg/kg)	Xylenes (mg/kg)	TPHd (mg/kg)	TPHg (mg/kg)
MW-19	08/13/09	5-10	<0.000835	<0.000835	<0.000835	<0.00250	10.2	<0.0835
MW-19	08/13/09	10-15	<0.000931	<0.000931	<0.000931	<0.00279	7.03	<0.0931
MW-19	08/13/09	25-30	<0.000882	<0.000882	<0.000882	<0.00265	5.59	<0.0882
MW-20	08/14/09	5-10	<0.000876	<0.000876	<0.000876	<0.00263	9.33	<0.0876
MW-20	08/14/09	10-15	<0.000893	<0.000893	<0.000893	<0.00268	<4.88	<0.0893
MW-20	08/14/09	25-30	<0.000864	<0.000864	<0.000864	<0.00259	14	<0.0864
MW-21	08/14/09	5-10	<0.000896	<0.000896	<0.000896	<0.00269	<4.96	<0.0896
MW-21	08/14/09	15-20	<0.000880	<0.000880	<0.000880	<0.00264	<4.99	<0.0880
MW-21	08/14/09	25-30	<0.000952	<0.000952	<0.000952	<0.00286	<4.94	<0.0952
SB-14	08/14/09	4-6	<0.000956	<0.000956	<0.000956	<0.00287	5.69	<0.0956
SB-14	08/14/09	10-12	<0.000911	<0.000911	<0.000911	<0.00273	<4.97	<0.0911
SB-14	08/14/09	24-26	0.0034	0.0358	0.0191	0.124	354	3.43
SB-15	08/14/09	8-10	0.00405	0.0157	0.0172	0.395	1,350	9.89
SB-15	08/14/09	12-14	0.0228	0.0545	0.117	0.585	1,230	16.8

Explanation:

TPHd	=	Total petroleum hydrocarbons as diesel.
TPHg	=	Total petroleum hydrocarbons as gasoline.
mg/kg	=	Milligrams per kilogram.
<	=	Not detected at or above the stated laboratory reporting limit.
---	=	Not analyzed/not available.

APPENDIX A

CORRESPONDENCE

David Purdy

From: Billings, Bradford, EMNRD <Bradford.Billings@state.nm.us>
Sent: Wednesday, May 09, 2018 12:37 PM
To: marla.d.madden@exxonmobil.com
Cc: David Purdy
Subject: Needed Continued Groundwater Assessment at the Gladiola Station.

May 9, 2018

Ms. Marla D. Madden
Project Manager
ExxonMobil Environmental Services Company (EMES)

Following recent conference with Mr. Purdy (CARDNO) on May 2, 2018, and significant review of past and current data/site conditions, the following:

1) The Oil Conservation Division (OCD) of New Mexico appreciates that the entire set of responsible parties may not yet be determined.
2) That this circumstance is being partially addressed by the OCD by way of encouraging via email, at least one additional potential responsible party to contact CARDNO.
3) Notwithstanding the above the OCD is directing EMES through CARDNO to continue with additional groundwater assessment of the site in order to have a full understanding of the lateral extent of contamination/NAPL in/on groundwater at the site. OCD has discussed in detail with CARDNO our thoughts on this expanded assessment.
4) This is valuable and needed for site aspects directly, but it may also assist in future discussions with the potential additional responsible party(s).

If there are any questions or comments please do not hesitate to contact this office. My email is my preferred approach.

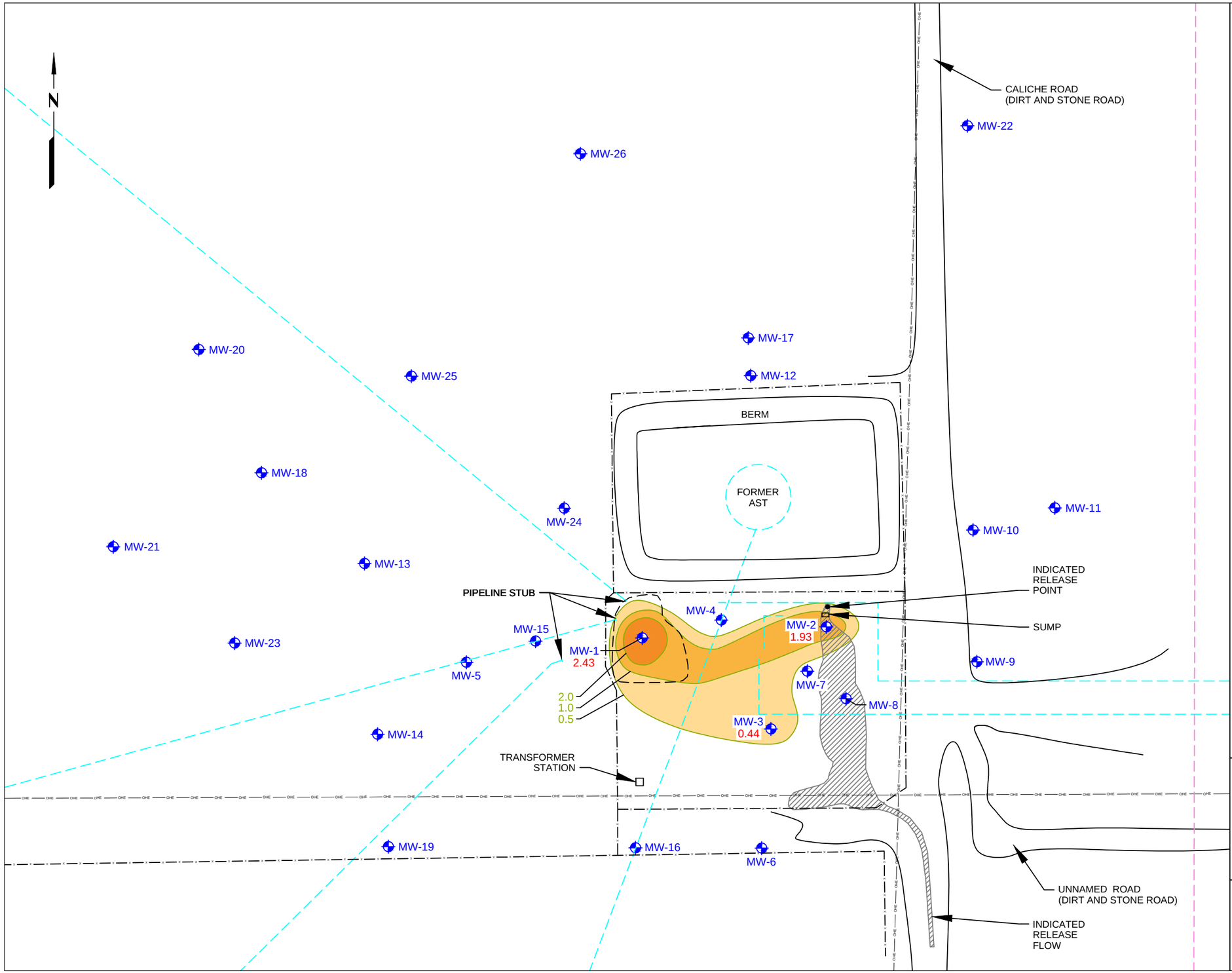
Sincerely,

Bradford Billings
EMNRD/OCD
Santa Fe

505.476.3482

APPENDIX B

HISTORIC NAPL THICKNESS ISOPLETH CONTOUR MAPS



EXPLANATION

MW-26	Groundwater monitoring well
	Overhead electric line
	Fence
	Active pipeline
	Inactive pipeline
	Extent of May 2007 surface release
	Extent of 2004 remedial soil excavation
NAPL	Non-aqueous phase liquid
2.43	NAPL thickness in feet
	NAPL isopleth contour line
LNAPL	Light non-aqueous phase liquid
	2' LNAPL thickness
	1' LNAPL thickness
	0.5' LNAPL thickness

SOURCE:
Modified from maps provided by
Groundwater & Environmental Services, Inc.
ImagePatch.com © 2016 Microsoft Corporation
AECOM and Google Earth Pro

APPROXIMATE SCALE

0 60 120
FEET

FN 3612NAPL01-01

NAPL THICKNESS ISOPLETH CONTOUR MAP NOVEMBER 2004

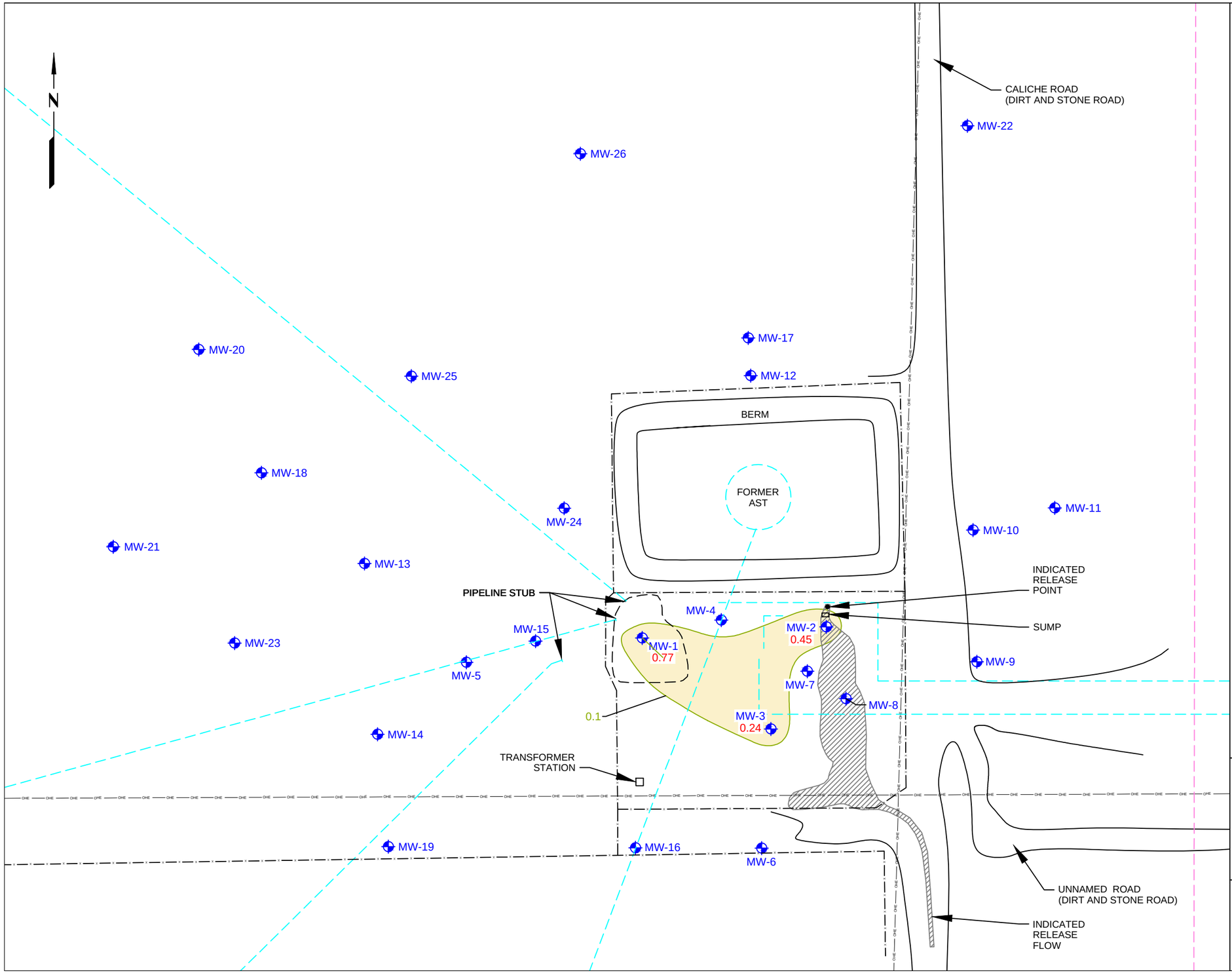
GLADIOLA STATION
Lea County, New Mexico

Cardno
Shaping the Future

PROJECT NO.
3612

PLATE
B-1

DATE: 05/25/18



EXPLANATION

MW-26	Groundwater monitoring well
	Overhead electric line
	Fence
	Active pipeline
	Inactive pipeline
	Extent of May 2007 surface release
	Extent of 2004 remedial soil excavation
NAPL	Non-aqueous phase liquid
0.77	NAPL thickness in feet
	NAPL isopleth contour line
LNAPL	Light non-aqueous phase liquid
	0.1' LNAPL thickness

SOURCE:
Modified from maps provided by
Groundwater & Environmental Services, Inc.
ImagePatch.com © 2016 Microsoft Corporation
AECOM and Google Earth Pro

APPROXIMATE SCALE

0 60 120
FEET

FN 3612NAPL01-02

NAPL THICKNESS ISOPLETH CONTOUR MAP MAY 2005

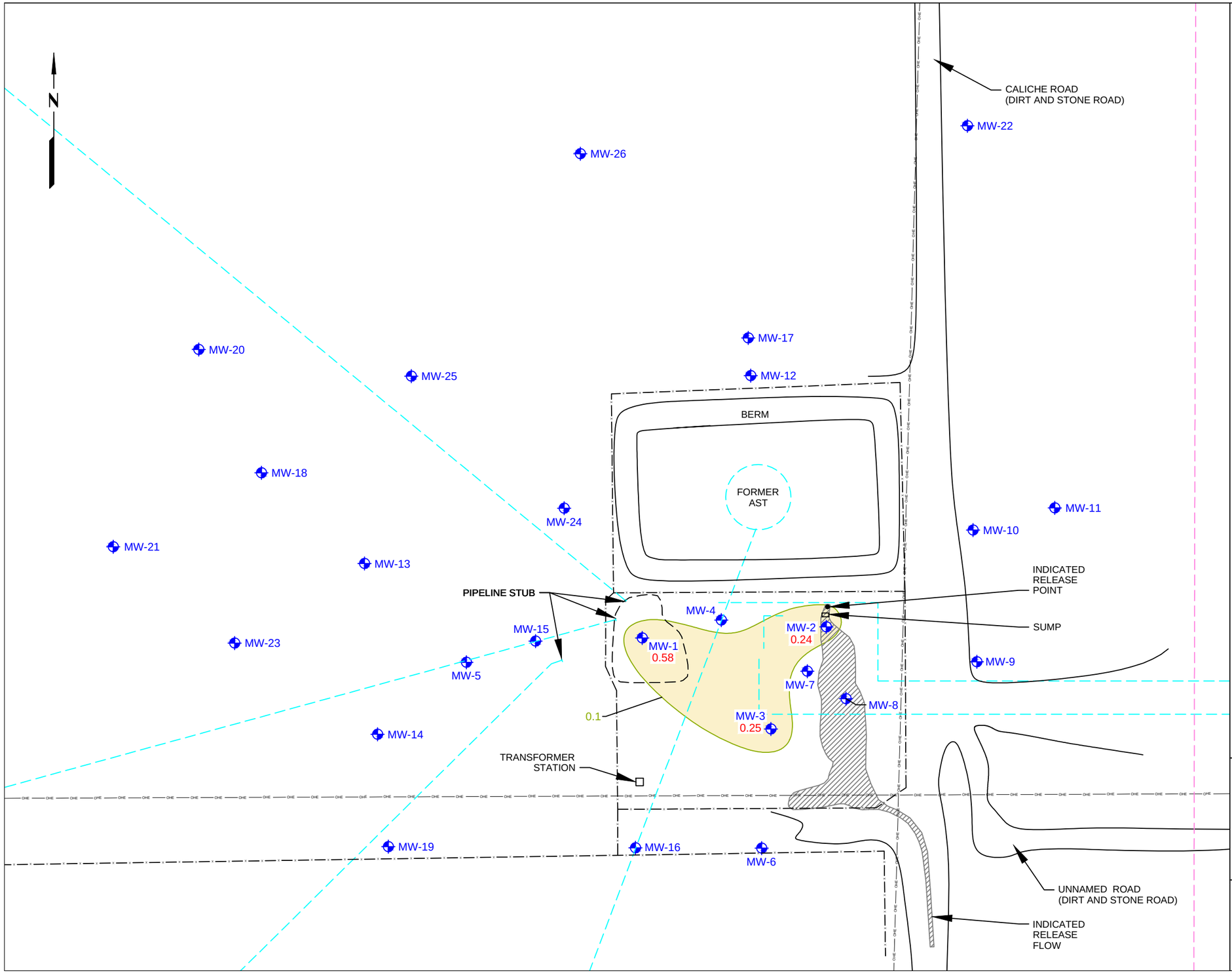
GLADIOLA STATION
Lea County, New Mexico

Cardno
Shaping the Future

PROJECT NO.
3612

PLATE
B-2

DATE: 05/25/18



EXPLANATION

MW-26	Groundwater monitoring well
	Overhead electric line
	Fence
	Active pipeline
	Inactive pipeline
	Extent of May 2007 surface release
	Extent of 2004 remedial soil excavation
NAPL	Non-aqueous phase liquid
0.58	NAPL thickness in feet
	NAPL isopleth contour line
LNAPL	Light non-aqueous phase liquid
	0.1' LNAPL thickness

SOURCE:
Modified from maps provided by
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AECOM and Google Earth Pro

APPROXIMATE SCALE

0 60 120
FEET

FN 3612NAPL01-03

NAPL THICKNESS ISOPLETH CONTOUR MAP JULY 2006

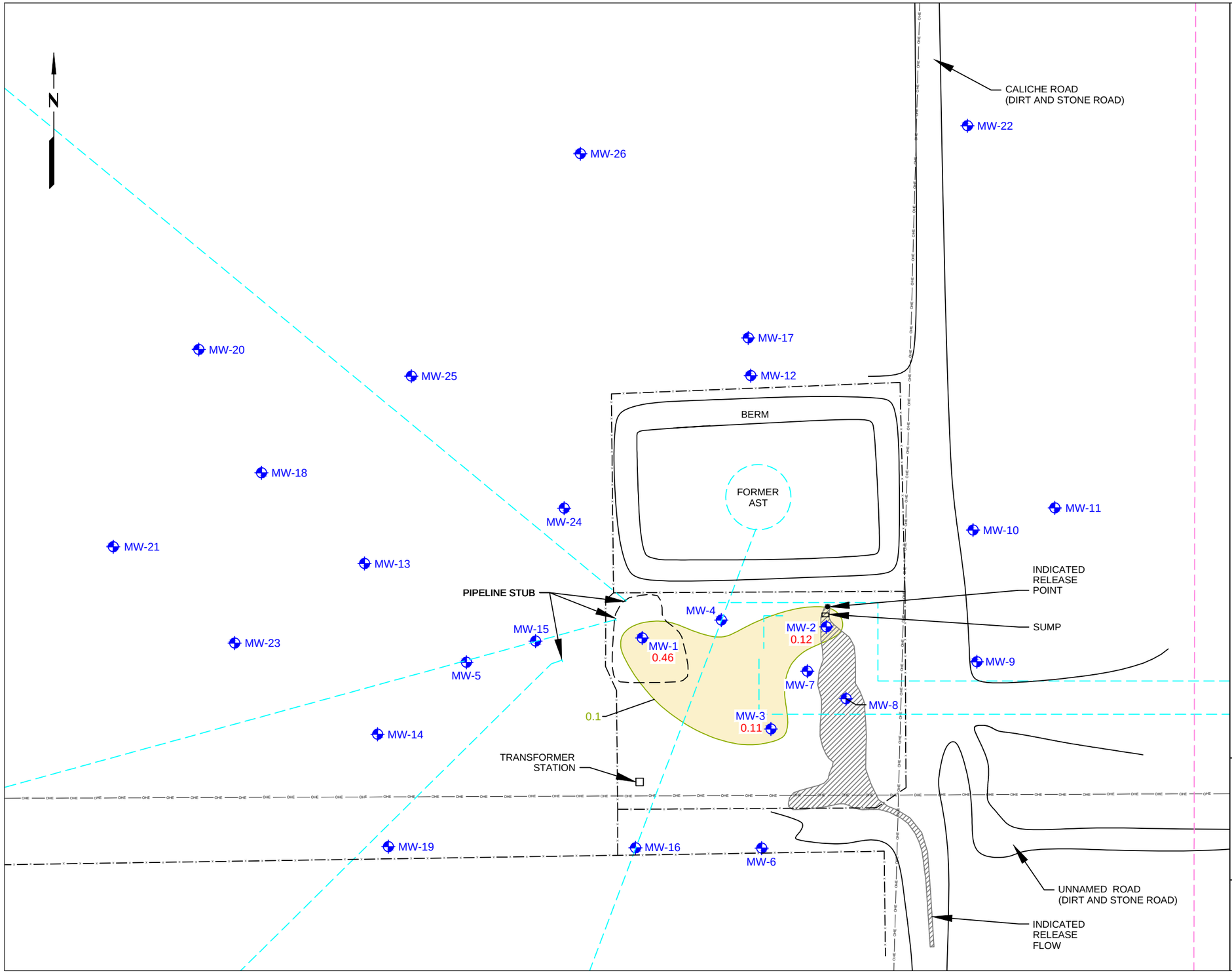
GLADIOLA STATION
Lea County, New Mexico

Cardno
Shaping the Future

PROJECT NO.
3612

PLATE
B-3

DATE: 05/25/18



EXPLANATION

MW-26	Groundwater monitoring well
	Overhead electric line
	Fence
	Active pipeline
	Inactive pipeline
	Extent of May 2007 surface release
	Extent of 2004 remedial soil excavation
NAPL	Non-aqueous phase liquid
0.46	NAPL thickness in feet
	NAPL isopleth contour line
LNAPL	Light non-aqueous phase liquid
	0.1' LNAPL thickness

SOURCE:
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AECOM and Google Earth Pro

APPROXIMATE SCALE

0 60 120
FEET

FN 3612NAPL01-04

NAPL THICKNESS ISOPLETH CONTOUR MAP FEBRUARY 2007

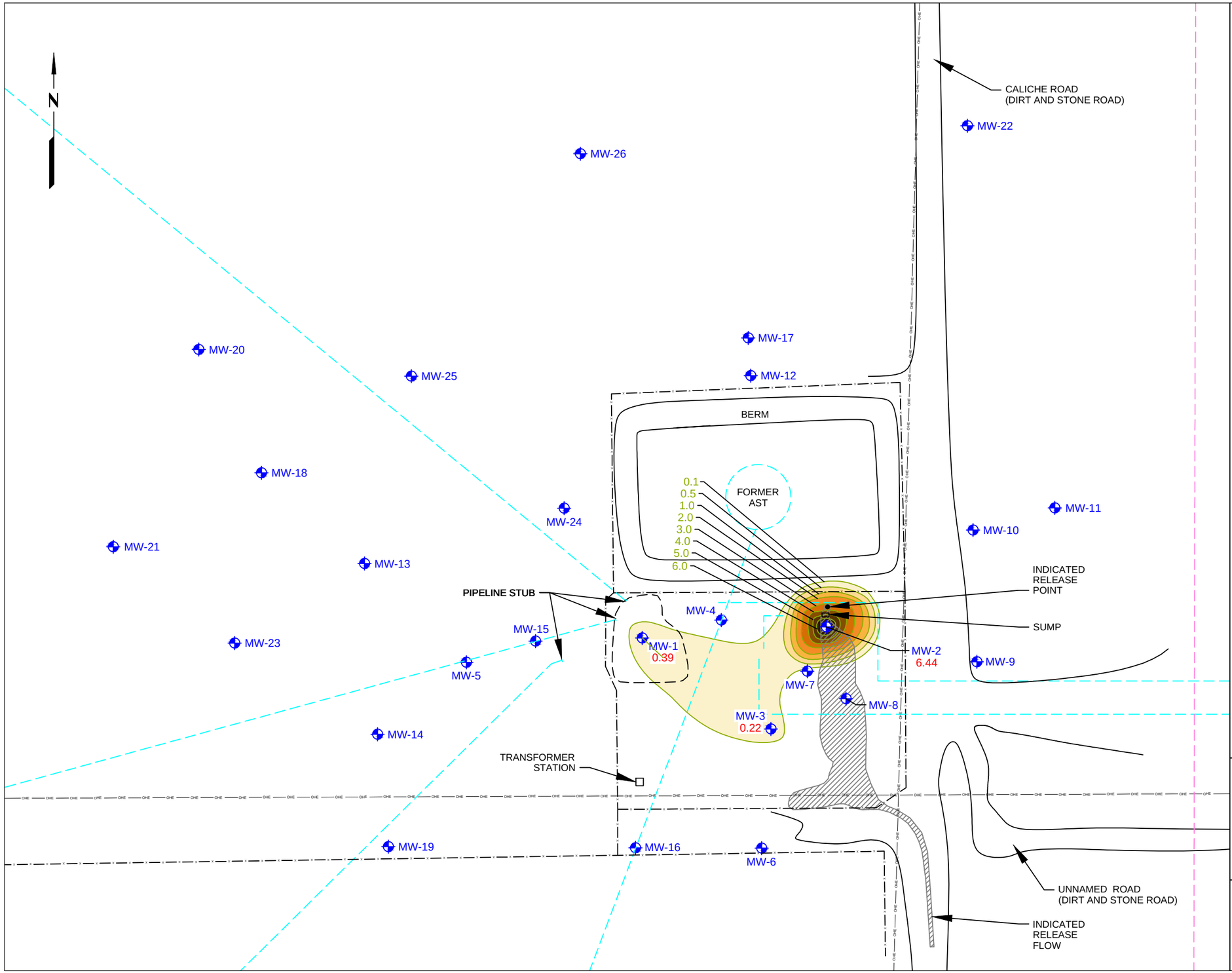
GLADIOLA STATION
Lea County, New Mexico

Cardno
Shaping the Future

PROJECT NO.
3612

PLATE
B-4

DATE: 05/25/18



EXPLANATION

MW-26	Groundwater monitoring well
	Overhead electric line
	Fence
	Active pipeline
	Inactive pipeline
	Extent of May 2007 surface release
	Extent of 2004 remedial soil excavation
NAPL	Non-aqueous phase liquid
6.44	NAPL thickness in feet
	NAPL isopleth contour line
LNAPL	Light non-aqueous phase liquid
	6' LNAPL thickness
	5' LNAPL thickness
	4' LNAPL thickness
	3' LNAPL thickness
	2' LNAPL thickness
	1' LNAPL thickness
	0.5' LNAPL thickness
	0.1' LNAPL thickness

SOURCE:
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APPROXIMATE SCALE

0 60 120
FEET

FN 3612NAPL01-05

NAPL THICKNESS ISOPLETH CONTOUR MAP JUNE 2008

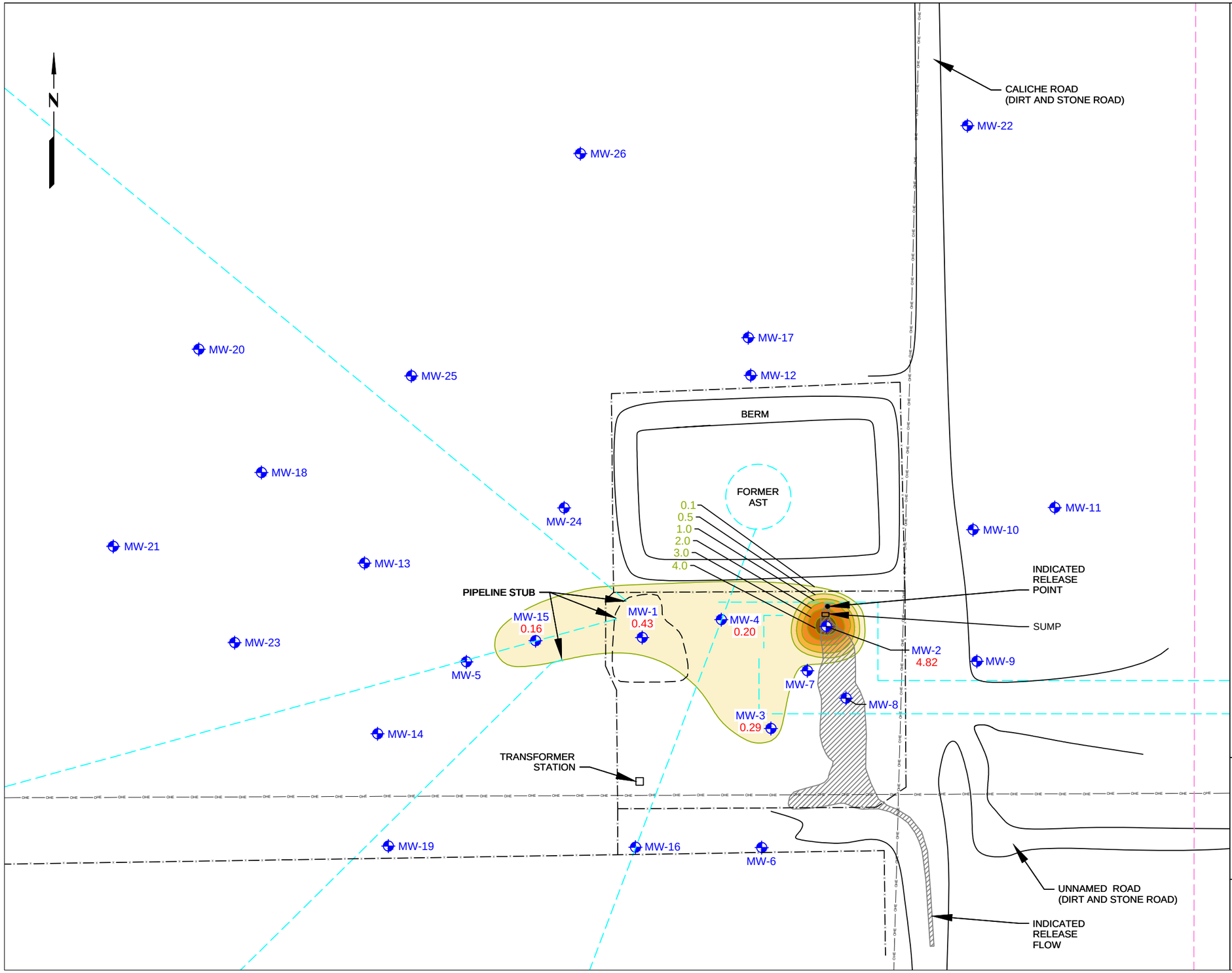
GLADIOLA STATION
Lea County, New Mexico

Cardno
Shaping the Future

PROJECT NO.
3612

PLATE
B-5

DATE: 05/25/18



EXPLANATION

MW-26	Groundwater monitoring well
	Overhead electric line
	Fence
	Active pipeline
	Inactive pipeline
	Extent of May 2007 surface release
	Extent of 2004 remedial soil excavation
NAPL	Non-aqueous phase liquid
4.82	NAPL thickness in feet
	NAPL isopleth contour line
LNAPL	Light non-aqueous phase liquid
	4' LNAPL thickness
	3' LNAPL thickness
	2' LNAPL thickness
	1' LNAPL thickness
	0.5' LNAPL thickness
	0.1' LNAPL thickness

SOURCE:
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AECOM and Google Earth Pro

APPROXIMATE SCALE

0 60 120
FEET

FN 3612NAPL01-06

NAPL THICKNESS ISOPLETH CONTOUR MAP MARCH 2009

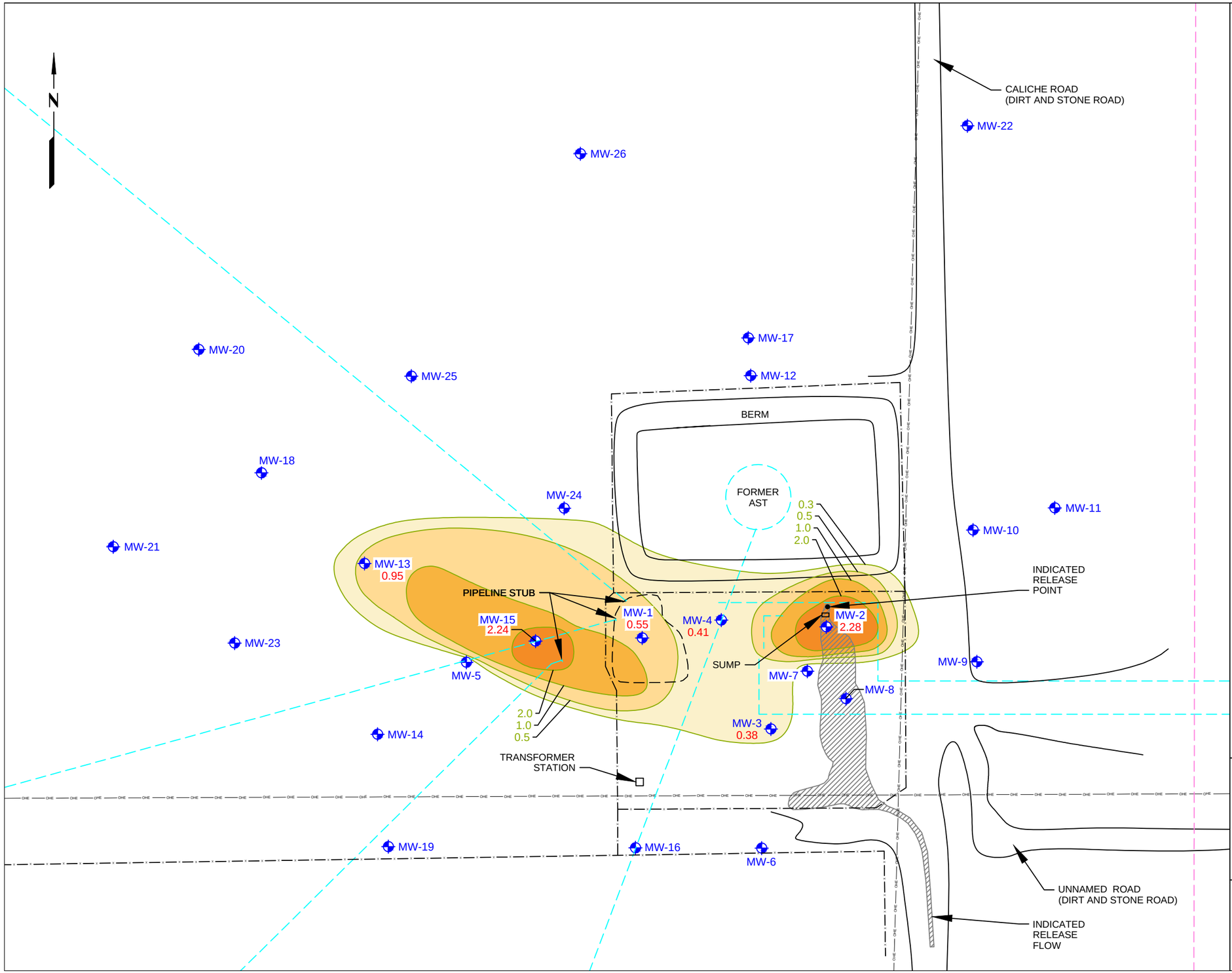
GLADIOLA STATION
Lea County, New Mexico

Cardno
Shaping the Future

PROJECT NO. 3612

PLATE B-6

DATE: 05/25/18



EXPLANATION

- MW-26 — Groundwater monitoring well
- Overhead electric line
- Fence
- Active pipeline
- Inactive pipeline
- Extent of May 2007 surface release
- Extent of 2004 remedial soil excavation
- NAPL — Non-aqueous phase liquid
- 2.28 — NAPL thickness in feet
- NAPL isopleth contour line
- LNAPL — Light non-aqueous phase liquid
- 2' LNAPL thickness
- 1' LNAPL thickness
- 0.5' LNAPL thickness
- 0.3' LNAPL thickness

SOURCE:
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AECOM and Google Earth Pro

APPROXIMATE SCALE

0 60 120
FEET

FN 3612NAPL01-07

NAPL THICKNESS ISOPLETH CONTOUR MAP OCTOBER 2011

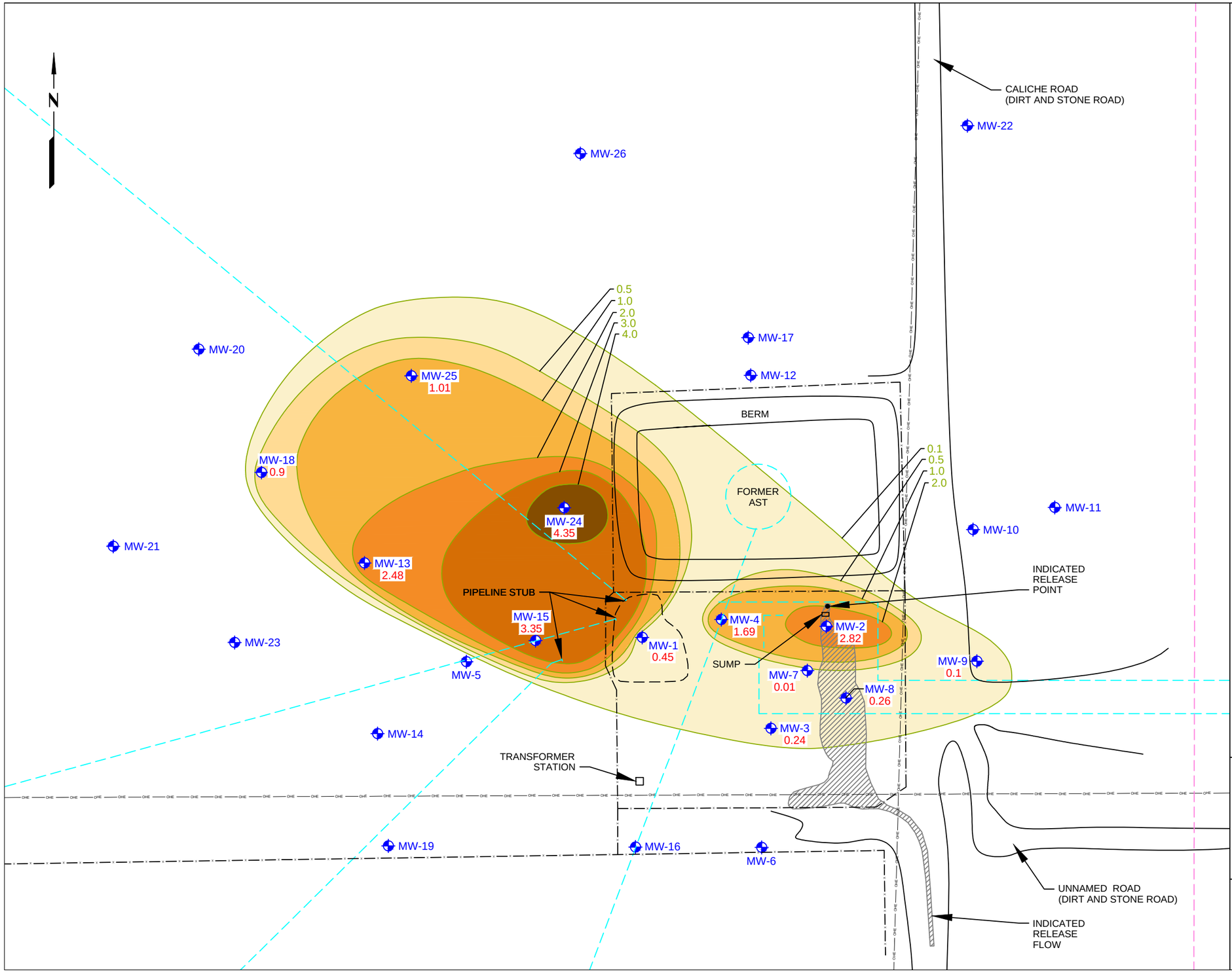
GLADIOLA STATION
Lea County, New Mexico

Cardno
Shaping the Future

PROJECT NO. 3612

PLATE B-7

DATE: 05/25/18



EXPLANATION

- MW-26 — Groundwater monitoring well
- Overhead electric line
- Fence
- Active pipeline
- Inactive pipeline
- Extent of May 2007 surface release
- Extent of 2004 remedial soil excavation
- NAPL — Non-aqueous phase liquid
- 4.35 — NAPL thickness in feet
- NAPL isopleth contour line
- LNAPL — Light non-aqueous phase liquid
- 4' LNAPL thickness
- 3' LNAPL thickness
- 2' LNAPL thickness
- 1' LNAPL thickness
- 0.5' LNAPL thickness
- 0.1' LNAPL thickness

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APPROXIMATE SCALE

0 60 120
FEET

FN 3612NAPL01-08

NAPL THICKNESS ISOPLETH CONTOUR MAP OCTOBER 2012

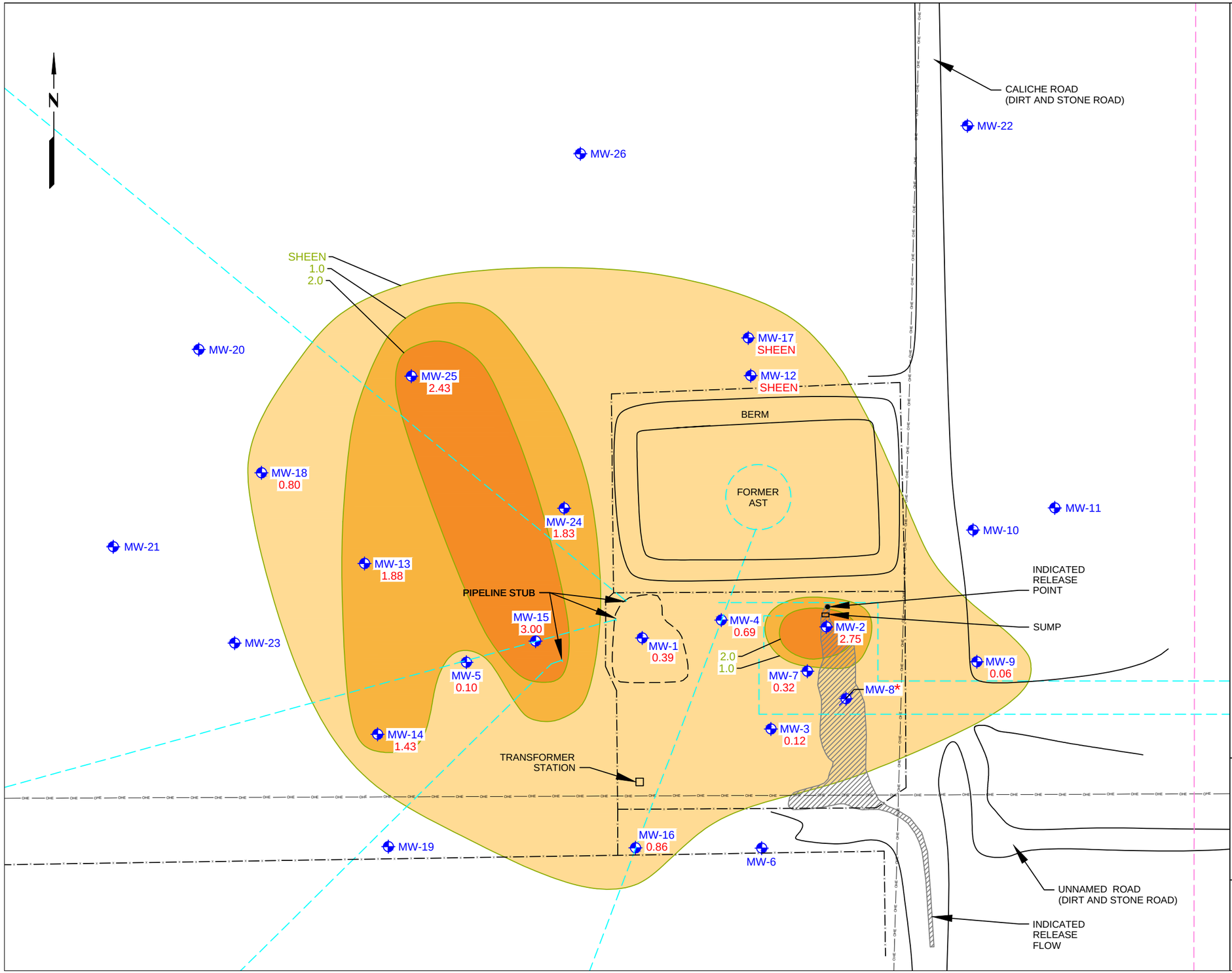
GLADIOLA STATION
Lea County, New Mexico

Cardno
Shaping the Future

PROJECT NO. 3612

PLATE B-8

DATE: 05/25/18



EXPLANATION

MW-26	Groundwater monitoring well
MW-8	Destroyed groundwater monitoring well
*	Well is presumed to have been destroyed
	Overhead electric line
	Fence
	Active pipeline
	Inactive pipeline
	Extent of May 2007 surface release
	Extent of 2004 remedial soil excavation
NAPL	Non-aqueous phase liquid
3.00	NAPL thickness in feet
	NAPL isopleth contour line
LNAPL	Light non-aqueous phase liquid
	2' LNAPL thickness
	1' LNAPL thickness
	SHEEN

SOURCE:
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APPROXIMATE SCALE

0 60 120
FEET

FN 3612NAPL01-09

NAPL THICKNESS ISOPLETH CONTOUR MAP MARCH 2013

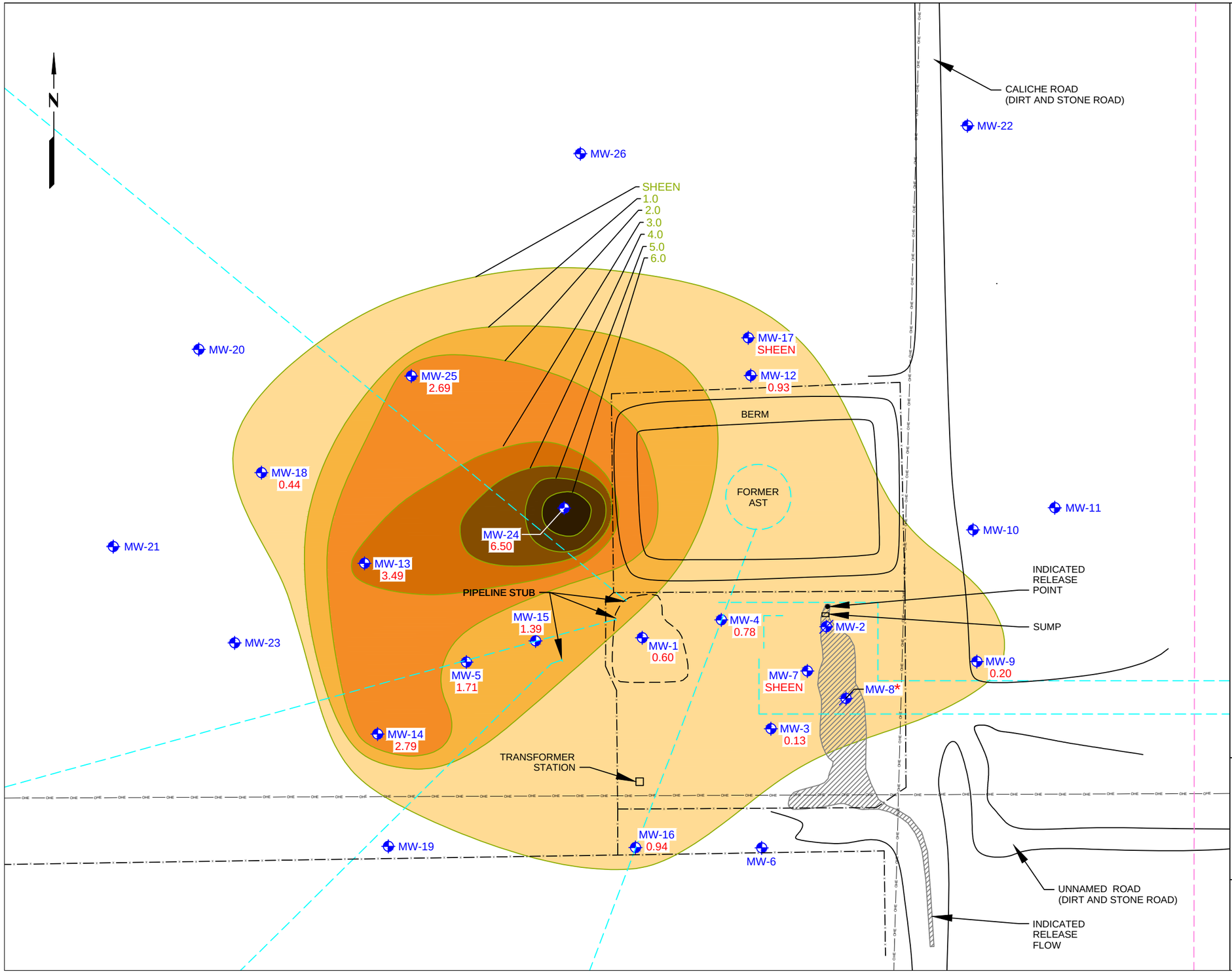
GLADIOLA STATION
Lea County, New Mexico

Cardno
Shaping the Future

PROJECT NO. 3612

PLATE B-9

DATE: 05/25/18



EXPLANATION

MW-26	Groundwater monitoring well
MW-8	Destroyed groundwater monitoring well
*	Well is presumed to have been destroyed
	Overhead electric line
	Fence
	Active pipeline
	Inactive pipeline
	Extent of May 2007 surface release
	Extent of 2004 remedial soil excavation
NAPL	Non-aqueous phase liquid
6.50	NAPL thickness in feet
	NAPL isopleth contour line
LNAPL	Light non-aqueous phase liquid
	6' LNAPL thickness
	5' LNAPL thickness
	4' LNAPL thickness
	3' LNAPL thickness
	2' LNAPL thickness
	1' LNAPL thickness
	SHEEN

SOURCE:
Modified from maps provided by
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APPROXIMATE SCALE

0 60 120
FEET

FN 3612NAPL01-10

NAPL THICKNESS ISOPLETH CONTOUR MAP NOVEMBER 2014

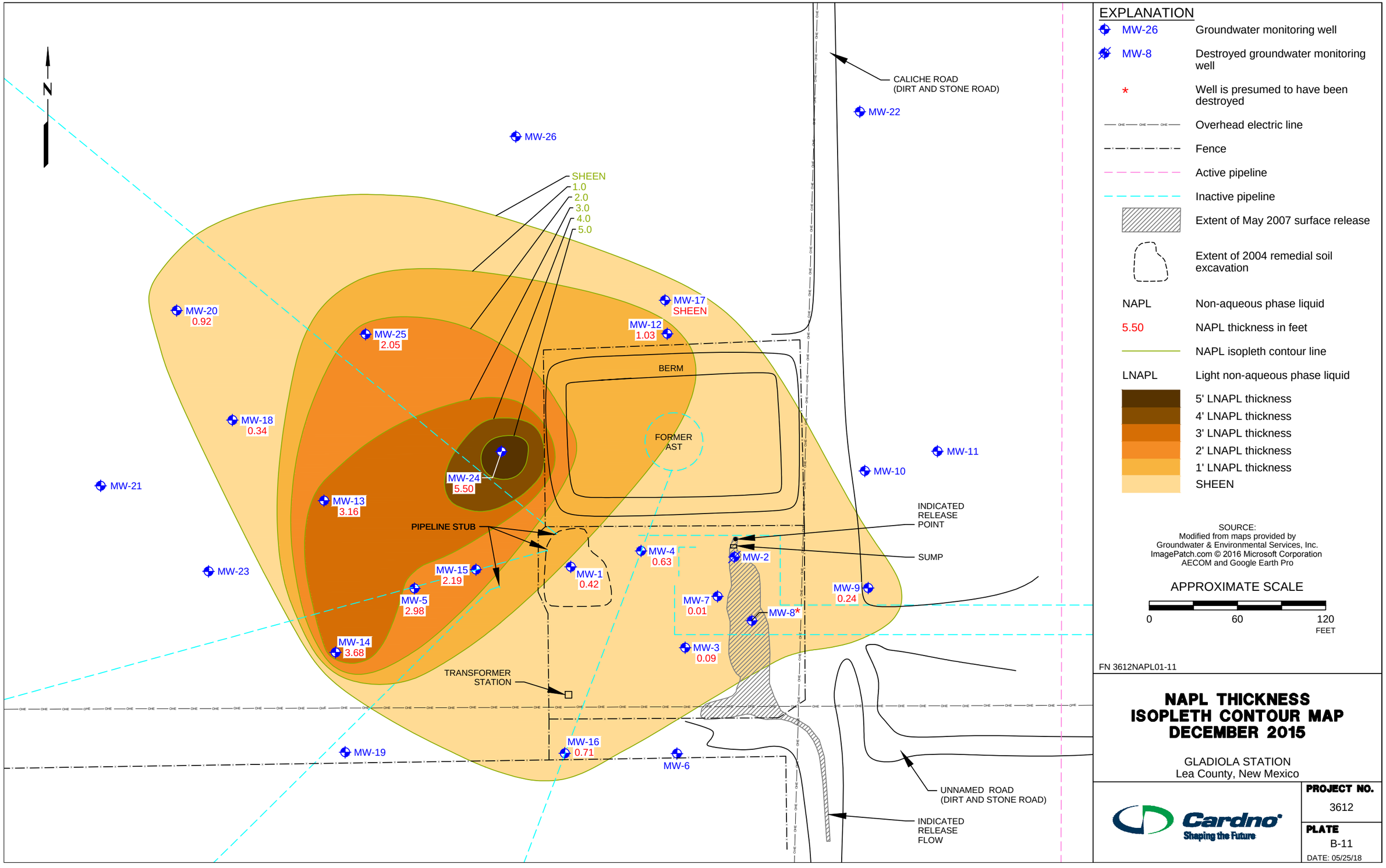
GLADIOLA STATION
Lea County, New Mexico

Cardno
Shaping the Future

PROJECT NO. 3612

PLATE B-10

DATE: 05/25/18



EXPLANATION

- MW-26 — Groundwater monitoring well
- MW-8 — Destroyed groundwater monitoring well
- * — Well is presumed to have been destroyed
- Overhead electric line
- Fence
- Active pipeline
- Inactive pipeline
- Extent of May 2007 surface release
- Extent of 2004 remedial soil excavation
- NAPL — Non-aqueous phase liquid
- 5.50 — NAPL thickness in feet
- NAPL isopleth contour line
- LNAPL — Light non-aqueous phase liquid
- 5' LNAPL thickness
- 4' LNAPL thickness
- 3' LNAPL thickness
- 2' LNAPL thickness
- 1' LNAPL thickness
- SHEEN

SOURCE:
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APPROXIMATE SCALE

0 60 120
FEET

FN 3612NAPL01-11

NAPL THICKNESS ISOPLETH CONTOUR MAP DECEMBER 2015

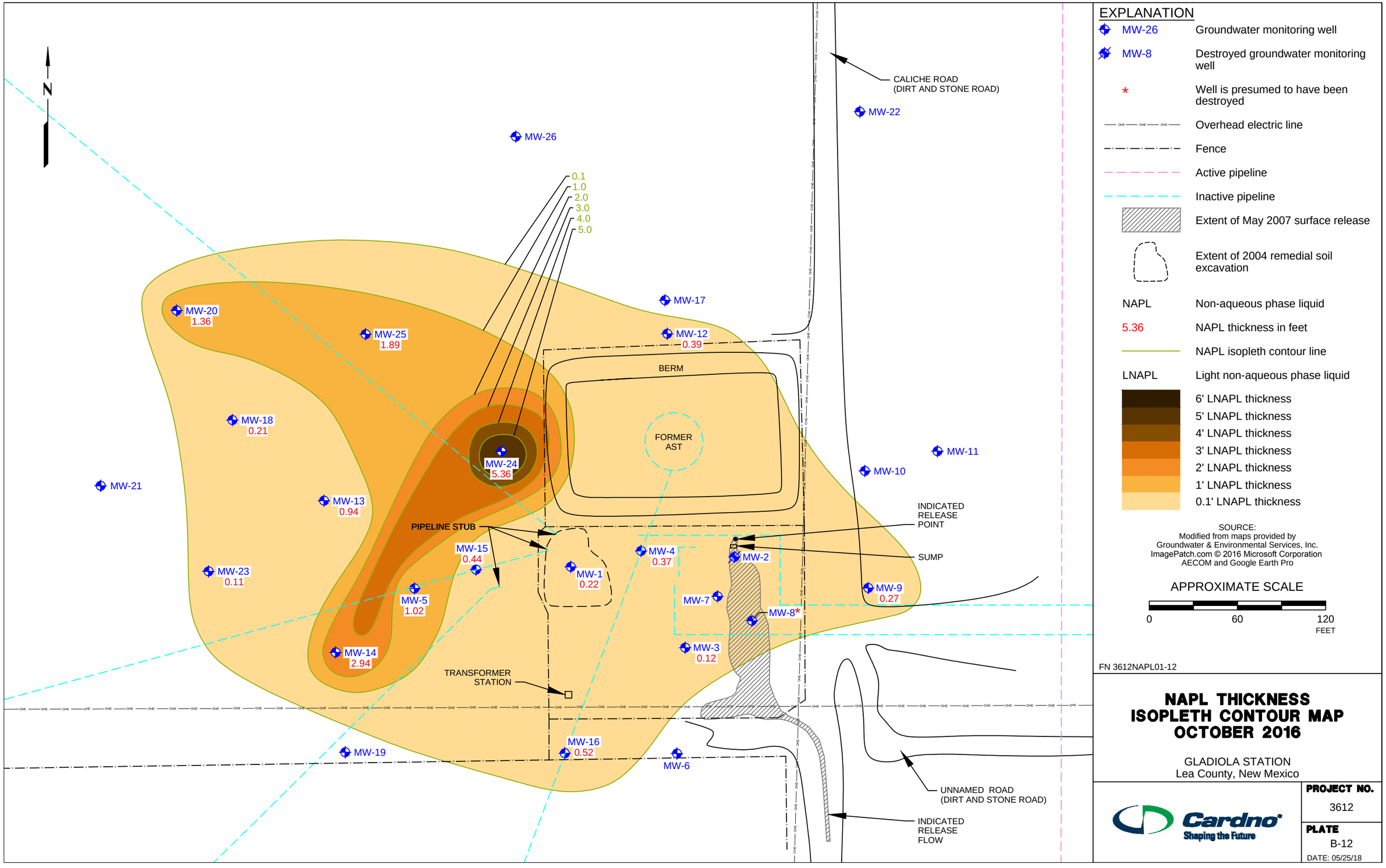
GLADIOLA STATION
Lea County, New Mexico

Cardno
Shaping the Future

PROJECT NO. 3612

PLATE B-11

DATE: 05/25/18



EXPLANATION

- MW-26 — Groundwater monitoring well
- MW-8 — Destroyed groundwater monitoring well
- * — Well is presumed to have been destroyed
- Overhead electric line
- Fence
- Active pipeline
- Inactive pipeline
- Extent of May 2007 surface release
- Extent of 2004 remedial soil excavation
- NAPL — Non-aqueous phase liquid
- 5.36 — NAPL thickness in feet
- NAPL isopleth contour line
- LNAPL — Light non-aqueous phase liquid
- 6' LNAPL thickness
- 5' LNAPL thickness
- 4' LNAPL thickness
- 3' LNAPL thickness
- 2' LNAPL thickness
- 1' LNAPL thickness
- 0.1' LNAPL thickness

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APPROXIMATE SCALE

0 60 120
FEET

FN 3612NAPL01-12

NAPL THICKNESS ISOPLETH CONTOUR MAP OCTOBER 2016

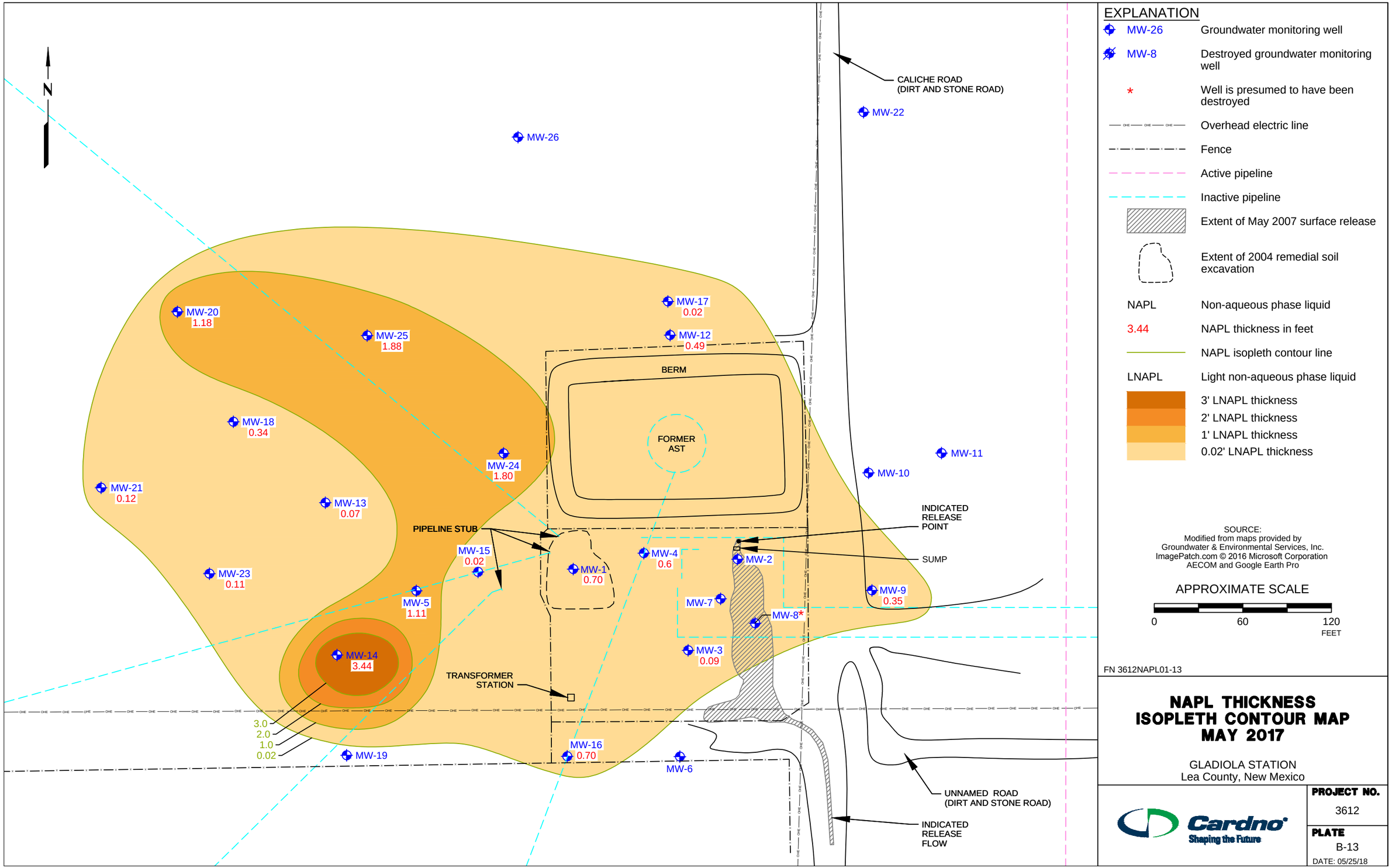
GLADIOLA STATION
Lea County, New Mexico

Cardno
Shaping the Future

PROJECT NO. 3612

PLATE B-12

DATE: 05/25/18



EXPLANATION

- MW-26 — Groundwater monitoring well
- MW-8 — Destroyed groundwater monitoring well
- * — Well is presumed to have been destroyed
- Overhead electric line
- Fence
- Active pipeline
- Inactive pipeline
- Extent of May 2007 surface release
- Extent of 2004 remedial soil excavation
- NAPL — Non-aqueous phase liquid
- 3.44 — NAPL thickness in feet
- NAPL isopleth contour line
- LNAPL — Light non-aqueous phase liquid
  - 3' LNAPL thickness
  - 2' LNAPL thickness
  - 1' LNAPL thickness
  - 0.02' LNAPL thickness

SOURCE:
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APPROXIMATE SCALE

0 60 120
FEET

FN 3612NAPL01-13

NAPL THICKNESS ISOPLETH CONTOUR MAP MAY 2017

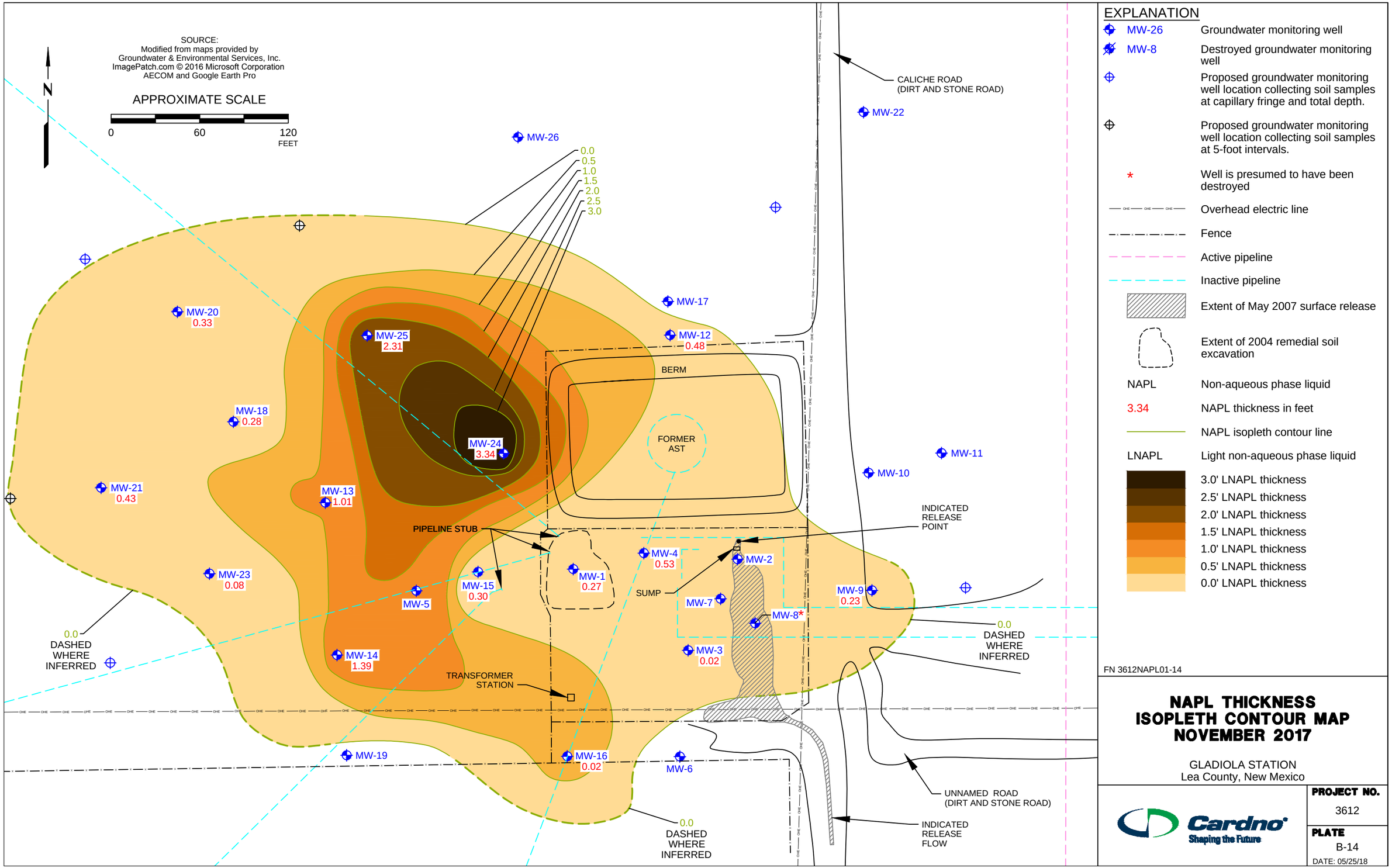
GLADIOLA STATION
Lea County, New Mexico

Cardno
Shaping the Future

PROJECT NO. 3612

PLATE B-13

DATE: 05/25/18


SOURCE:
Modified from maps provided by
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N
APPROXIMATE SCALE
0
60
120
FEET
MW-26
0.0
0.5
1.0
1.5
2.0
2.5
3.0
MW-20
0.33
MW-25
2.31
MW-17
MW-12
0.48
BERM
MW-18
0.28
MW-24
3.34
FORMER
AST
MW-21
0.43
MW-13
1.01
MW-11
MW-10
CALICHE ROAD
(DIRT AND STONE ROAD)
MW-22
INDICATED
RELEASE
POINT
PIPELINE STUB
MW-4
0.53
MW-2
MW-23
0.08
MW-1
0.27
MW-15
0.30
SUMP
MW-7
MW-8*
MW-9
0.23
MW-5
0.0
DASHED
WHERE
INFERRED
MW-3
0.02
MW-14
1.39
TRANSFORMER
STATION
MW-19
MW-16
0.02
MW-6
UNNAMED ROAD
(DIRT AND STONE ROAD)
INDICATED
RELEASE
FLOW
EXPLANATION
MW-26 Groundwater monitoring well
MW-8 Destroyed groundwater monitoring well
Proposed groundwater monitoring well location collecting soil samples at capillary fringe and total depth.
Proposed groundwater monitoring well location collecting soil samples at 5-foot intervals.
* Well is presumed to have been destroyed
Overhead electric line
Fence
Active pipeline
Inactive pipeline
Extent of May 2007 surface release
Extent of 2004 remedial soil excavation
NAPL Non-aqueous phase liquid
3.34 NAPL thickness in feet
NAPL isopleth contour line
LNAPL Light non-aqueous phase liquid
3.0' LNAPL thickness
2.5' LNAPL thickness
2.0' LNAPL thickness
1.5' LNAPL thickness
1.0' LNAPL thickness
0.5' LNAPL thickness
0.0' LNAPL thickness
FN 3612NAPL01-14
NAPL THICKNESS
ISOPLETH CONTOUR MAP
NOVEMBER 2017
GLADIOLA STATION
Lea County, New Mexico
Cardno
Shaping the Future
PROJECT NO.
3612
PLATE
B-14
DATE: 05/25/18

APPENDIX C

FIELD PROTOCOL

Cardno
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Cardno
Soil Boring and Well Installation
Field Protocol

Preliminary Activities

Prior to the onset of field activities at the site, Cardno obtains the appropriate permit(s) from the governing agency(s). Advance notification is made as required by the agency(s) prior to the start of work. Cardno marks the borehole locations and contacts the local one call utility locating service at least 48 hours prior to the start of work to mark buried utilities. Borehole locations may also be checked for buried utilities by a private geophysical surveyor. Prior to drilling, the borehole location is cleared in accordance with the client's procedures. Fieldwork is conducted under the advisement of a registered professional geologist and in accordance with an updated site-specific safety plan prepared for the project, which is available at the job site during field activities.

Drilling and Soil Sampling Procedures

Cardno contracts a licensed driller to advance the boring and collect soil samples. The specific drilling method (e.g., hollow-stem auger, direct push method, or sonic drilling), sampling method [e.g., core barrel or California-modified split spoon sampler (CMSSS)] and sampling depths are documented on the boring log and may be specified in a work plan. Soil samples are typically collected at the capillary fringe and at 5-foot intervals to the total depth of the boring. To determine the depth of the capillary fringe prior to drilling, the static groundwater level is measured with a water level indicator in the closest monitoring well to the boring location, if available.

The borehole is advanced to just above the desired sampling depth. For CMSSSs, the sampler is placed inside the auger and driven to a depth of 18 inches past the bit of the auger. The sampler is driven into the soil with a standard 140-pound hammer repeatedly dropped from a height of 30 inches onto the sampler. The number of blows required to drive the sampler each 6-inch increment is recorded on the boring log. For core samplers (e.g., direct push), the core is driven 18 inches using the rig apparatus.

Soil samples are preserved in the metal or plastic sleeve used with the CMSSS or core sampler, in glass jars or other manner required by the local regulatory agency (e.g., Environmental Protection Agency Method 5035). Sleeves are removed from the sample barrel, and the lowermost sample sleeve is immediately sealed with Teflon™ tape, capped and labeled. Samples are placed in a cooler chilled to 4° Celsius and transported to a state-certified laboratory. The samples are transferred under chain-of-custody (COC) protocol.

Field Screening Procedures

Cardno places the soil from the middle of the sampling interval into a plastic re-sealable bag. The bag is placed away from direct sunlight for approximately 20 minutes, after which the tip of a photo-ionization detector (PID) or similar device is inserted through the plastic bag to measure organic vapor concentrations in the headspace. The PID measurement is recorded on the boring log. At a minimum, the PID or other device is calibrated on a daily basis in accordance with manufacturer's specifications using a hexane or isobutylene standard. The calibration gas and concentration are recorded on a calibration log. Instruments such as the PID are useful for evaluating relative concentrations of volatilized hydrocarbons, but they do not measure the concentration of petroleum hydrocarbons in the soil matrix with the same precision as laboratory analysis. Cardno trained personnel describe the soil in the bag according to the Unified Soil Classification System and record the description on the boring log, which is included in the final report.

Air Monitoring Procedures

Cardno performs a field evaluation for volatile hydrocarbon concentrations in the breathing zone using a calibrated PID or lower explosive level meter.

Groundwater Sampling

A groundwater sample, if desired, is collected from the boring by using Hydropunch™ sampling technology or installing a well in the borehole. In the case of using Hydropunch™ technology, after collecting the capillary fringe soil sample, the boring is advanced to the top of the soil/groundwater interface and a sampling probe is pushed to approximately 2 feet below the top of the static water level. The probe is opened by partially withdrawing it and thereby exposing the screen. A new or decontaminated bailer is used to collect a water sample from the probe. The water sample is then emptied into laboratory-supplied containers constructed of the correct material and with the correct volume and preservative to comply with the proposed laboratory test. The container is slowly filled with the retrieved water sample until no headspace remains and then promptly sealed with a Teflon-lined cap, checked for the presence of bubbles, labeled, entered onto a COC record and placed in chilled storage at 4° Celsius. Laboratory-supplied trip blanks accompany the water samples as a quality assurance/quality control procedure. Equipment blanks may be collected as required. The samples are kept in chilled storage and transported under COC protocol to a client-approved, state-certified laboratory for analysis.

Backfilling of Soil Boring

If a well is not installed, the boring is backfilled from total depth to approximately 5 feet below ground surface (bgs) with either neat cement or bentonite grout using a tremie pipe. The boring is backfilled from 5 feet bgs to approximately 1 foot bgs with hydrated bentonite chips. The borehole is completed from 1 foot bgs to surface grade with material that best matches existing surface conditions and meets local agency requirements. Site-specific backfilling details are shown on the respective boring log.

Well Construction

A well (if constructed) is completed using materials documented on the boring log or specified in a work plan. The well is constructed with slotted casing across the desired groundwater sampling depth(s) and completed with blank casing to within 6 inches of surface grade. No further construction is conducted on temporary wells. For permanent wells, the annular space of the well is backfilled with Monterey sand from the total depth to approximately 2 feet above the top of the screened casing. A hydrated granular bentonite seal is placed on top of the sand filter pack. Grout may be placed on top of the bentonite seal to the desired depth using a tremie pipe. The well may be completed to surface grade with a 1-foot thick concrete pad. A traffic-rated well vault and locking cap for the well casing may be installed to protect against surface-water infiltration and unauthorized entry. Site-specific well construction details including type of well, well depth, casing diameter, slot size, length of screen interval and sand size are documented on the boring log or specified in the work plan.

Well Development and Sampling

If a permanent groundwater monitoring well is installed, the grout is allowed to cure a minimum of 48 hours before development. Cardno personnel or a contracted driller use a submersible pump or surge block to develop the newly installed well. Prior to development, the pump is decontaminated by allowing it to run and re-circulate while immersed in a non-phosphate solution followed by successive immersions in potable water and de-ionized water baths. The well is developed until sufficient well casing volumes are removed so that turbidity is within allowable limits and pH, conductivity and temperature levels stabilize in the purge water. The volume of groundwater extracted is recorded on a log.

Following development, groundwater within the well is allowed to recharge until at least 80% of the drawdown is recovered. A new or decontaminated bailer is slowly lowered past the air/water interface in the well, and a water sample is collected and checked for the presence of non-aqueous phase liquid, sheen or emulsions. The water sample is then emptied into laboratory-supplied containers as discussed above.

Surveying

If required, wells are surveyed by a licensed land surveyor relative to an established benchmark of known elevation above mean sea level to an accuracy of +/- 0.01 foot. The casing is notched or marked on one side to identify a consistent surveying and measuring point.

Decontamination Procedures

Cardno or the contracted driller decontaminates soil and water sampling equipment between each sampling event with a non-phosphate solution, followed by a minimum of two tap water rinses. De-ionized water may be used for the final rinse. Downhole drilling equipment is steam-cleaned prior to drilling the borehole and at completion of the borehole.

Waste Treatment and Soil Disposal

Soil cuttings generated from the drilling or sampling are stored on site in labeled, Department of Transportation-approved, 55-gallon drums or other appropriate storage container. The soil is removed from the site and transported under manifest to a client- and regulatory-approved facility for recycling or disposal. Decontamination fluids and purge water from well development and sampling activities, if conducted, are stored on site in labeled, regulatory-approved storage containers. Fluids are subsequently transported under manifest to a client- and regulatory-approved facility for disposal or treated with a permitted mobile or fixed-base carbon treatment system.

Sante Fe Main Office
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General Information
Phone: (505) 629-6116

Online Phone Directory
https://www.emnrd.nm.gov/ocd/contact-us

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Operator: EXXON MOBIL CORPORATION P.O. Box 4358 Houston, TX 77210	OGRID: 7673
	Action Number: 409554
	Action Type: [UF-GWA] Ground Water Abatement (GROUND WATER ABATEMENT)

CONDITIONS

Created By	Condition	Condition Date
michael.buchanan	Accepted for the record. NMED has jurisdiction over incident. App ID: 409554	12/11/2024