

AP - 111

**ANNUAL GW
MONITORING REPORT
(24 of 29)**

2016



4601 Ripley
El Paso, Texas
79922
915-386-1317



1"=500'

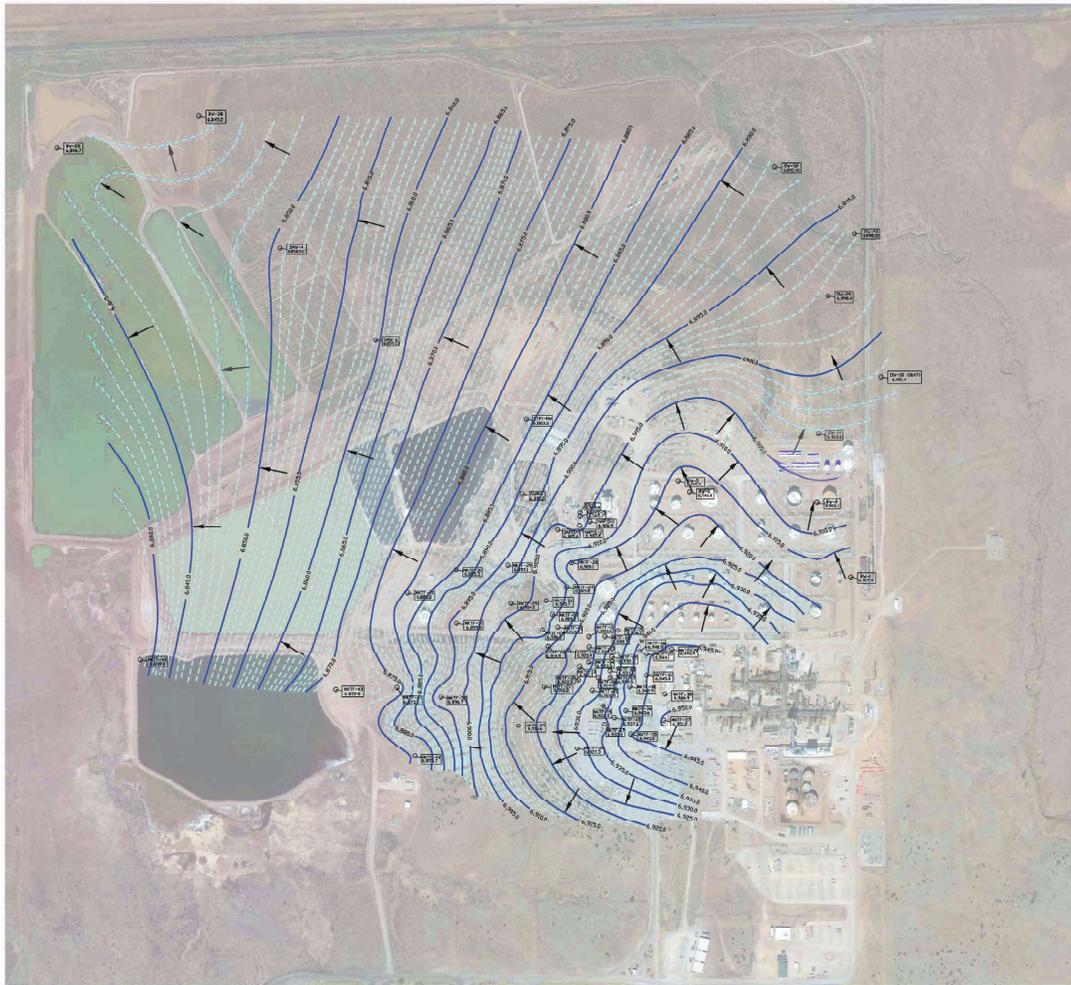
Project #: 06251318

Figure 9

Sonsela Water Elevation Map 2016

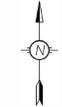
WESTERN REFINING - GALLUP REFINERY

Western Refining - Gallup Refinery
92 Giant Crossing Road
Gallup, New Mexico 87301
Date: August 4, 2017



CHINLE/ALLUVIUM INTERFACE WELLS
FLOW DIRECTION: →

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79922
915-384-1317



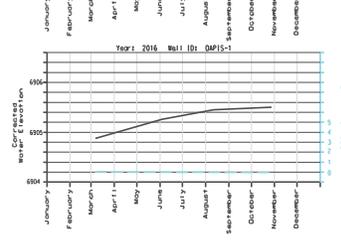
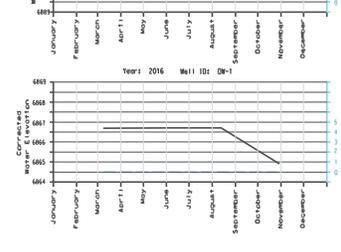
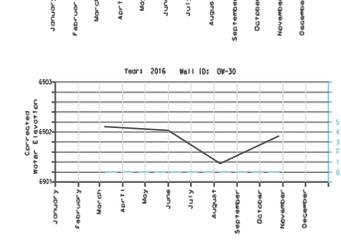
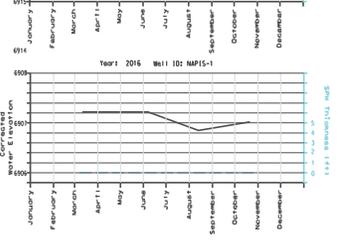
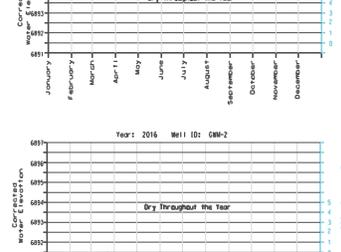
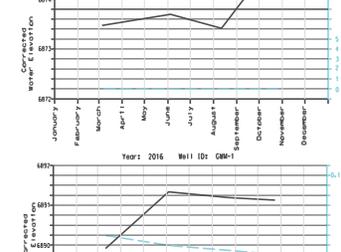
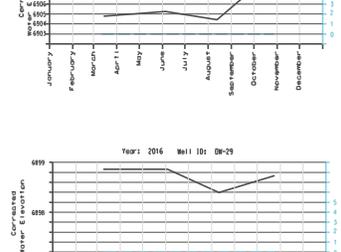
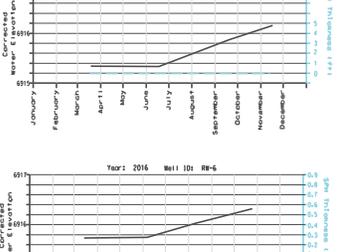
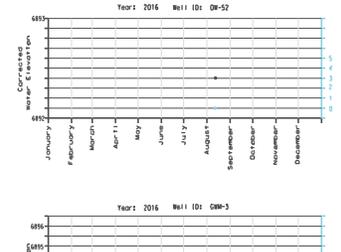
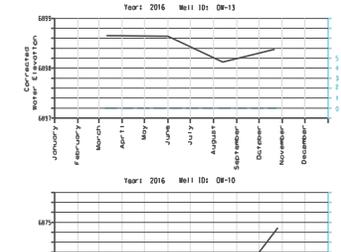
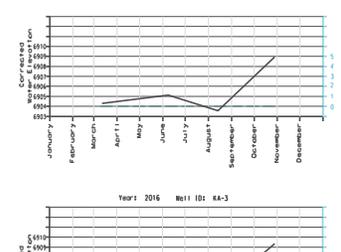
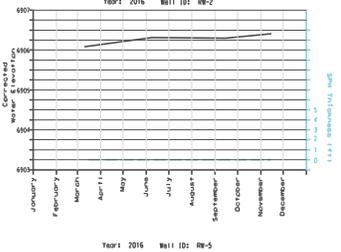
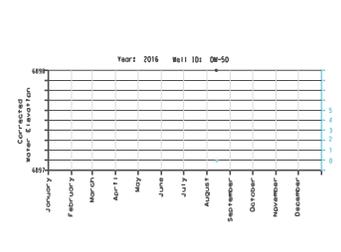
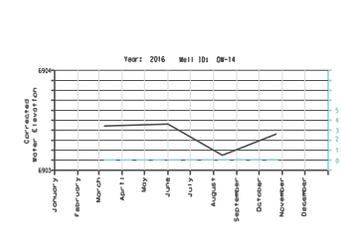
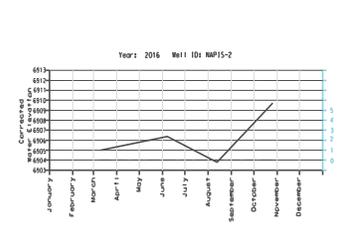
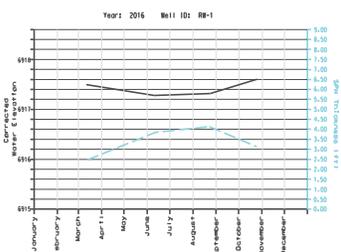
1"=500'

Project #: 06251318

Figure 10 2016

Alluvium/Chinle Gp Interface Water Elevation Map WESTERN REFINING - GALLUP REFINERY

Western Refining - Gallup Refinery
92 Giant Crossing Road
Gallup, New Mexico 87301
Date: August 1, 2017



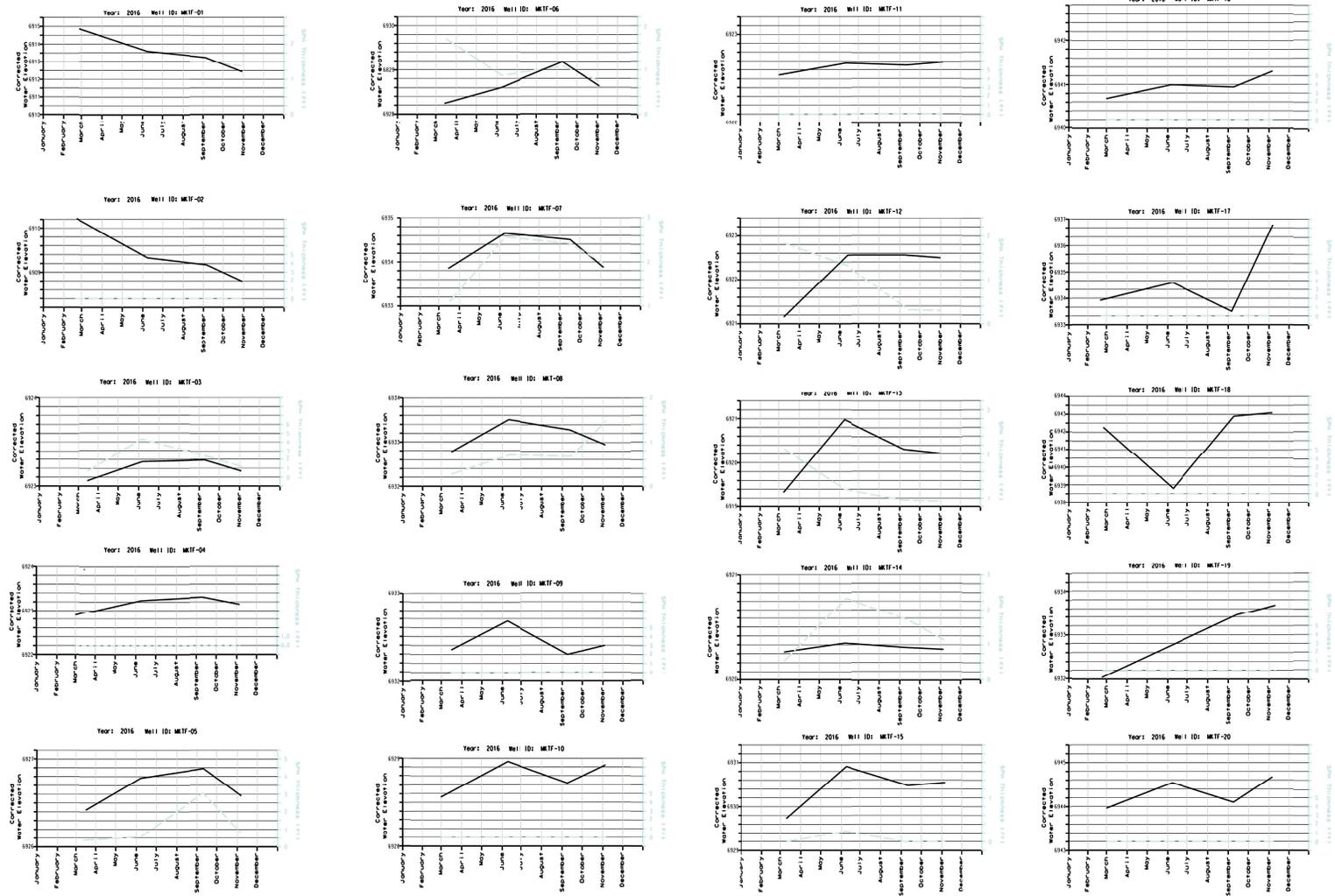
NTS
Project #: 06251104

Figure 11

GROUNDWATER ELEVATION VS TIME

WESTERN REFINING - GALLUP REFINERY

Western Refining - Gallup Refinery
92 Giant Crossing Road
Gallup, New Mexico 87301
Date: August 31, 2017

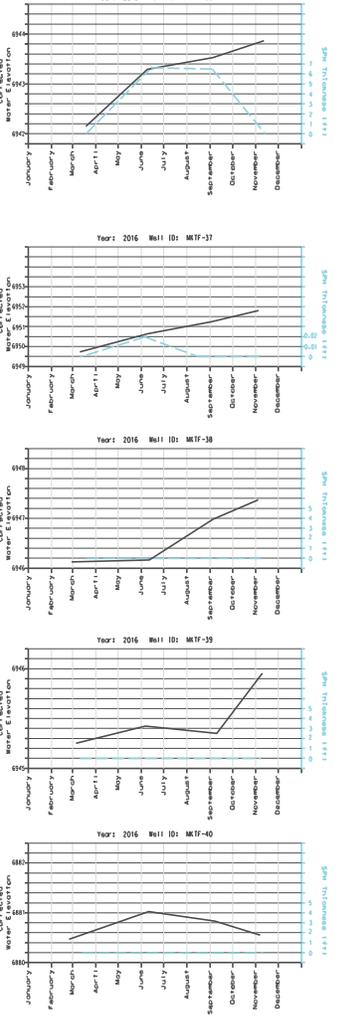
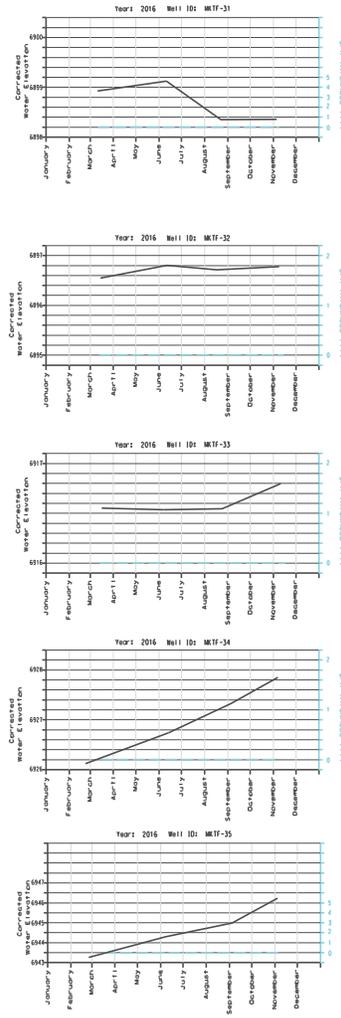
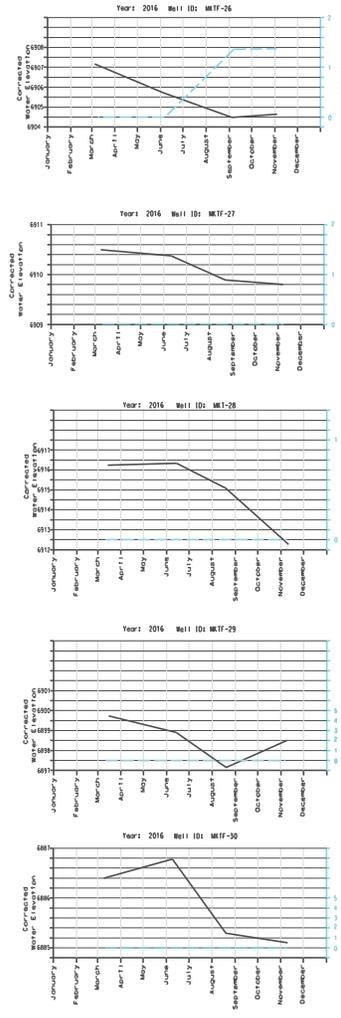
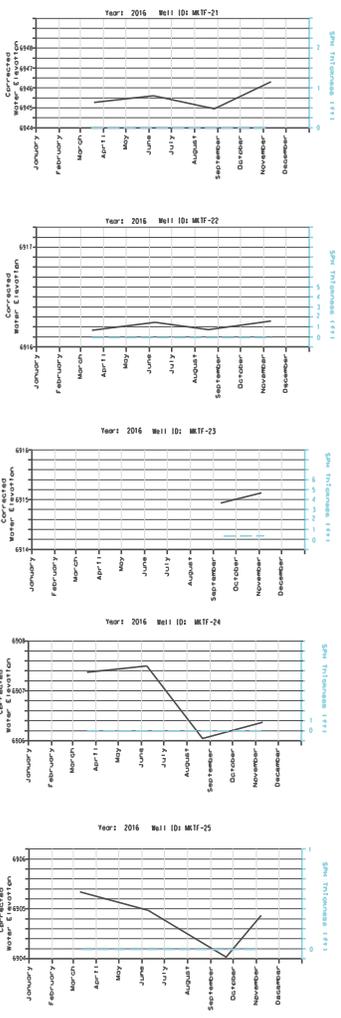


NTS

Project #: 06251316

Figure 11A
GROUNDWATER ELEVATION VS TIME
WESTERN REFINING - GALLUP REFINERY

Western Refining - Gallup Refinery
 92 Giant Crossing Road
 Gallup, New Mexico 87301
 Date: August 31, 2017



NTS
Project #: 06291318

Figure 11B
GROUNDWATER ELEVATION VS TIME
WESTERN REFINING - GALLUP REFINERY

Western Refining - Gallup Refinery
92 Giant Crossing Road
Gallup, New Mexico 87301
Date: August 31, 2017

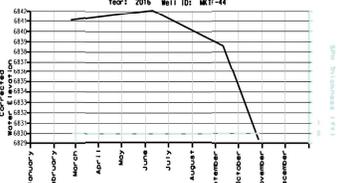
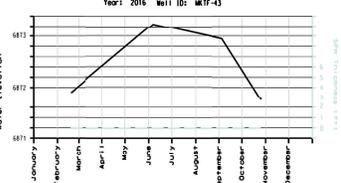
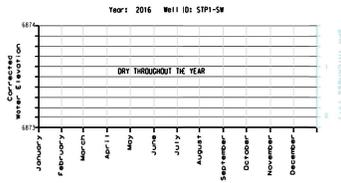
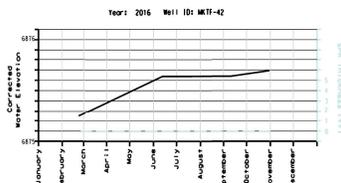
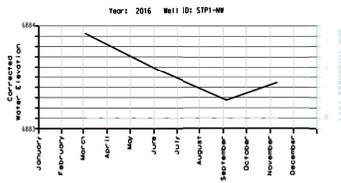
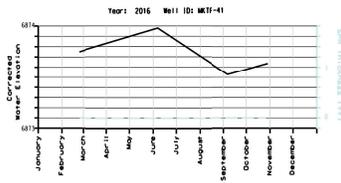


Figure 11C

GROUNDWATER ELEVATION VS TIME
WESTERN REFINING - GALLUP REFINERY

Western Refining - Gallup Refinery
 92 Giant Crossing Road
 Gallup, New Mexico 87301
 Date: August 31, 2017



4601 Rowley
 El Paso, Texas
 79922
 915-584-1317

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Project #: 06251318

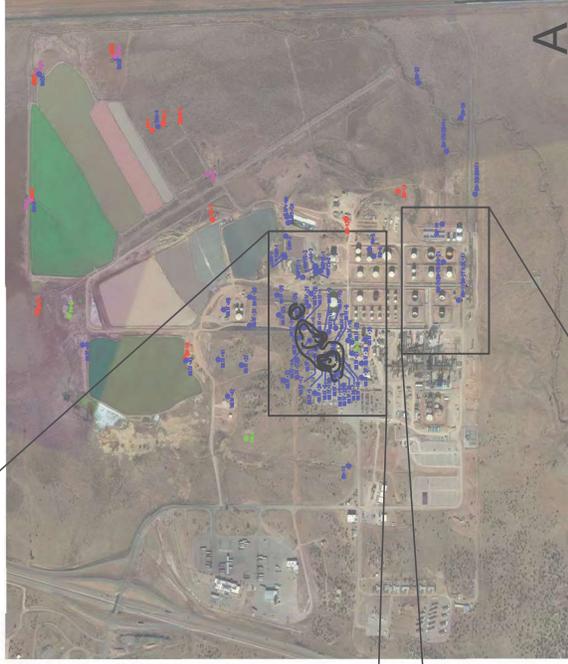
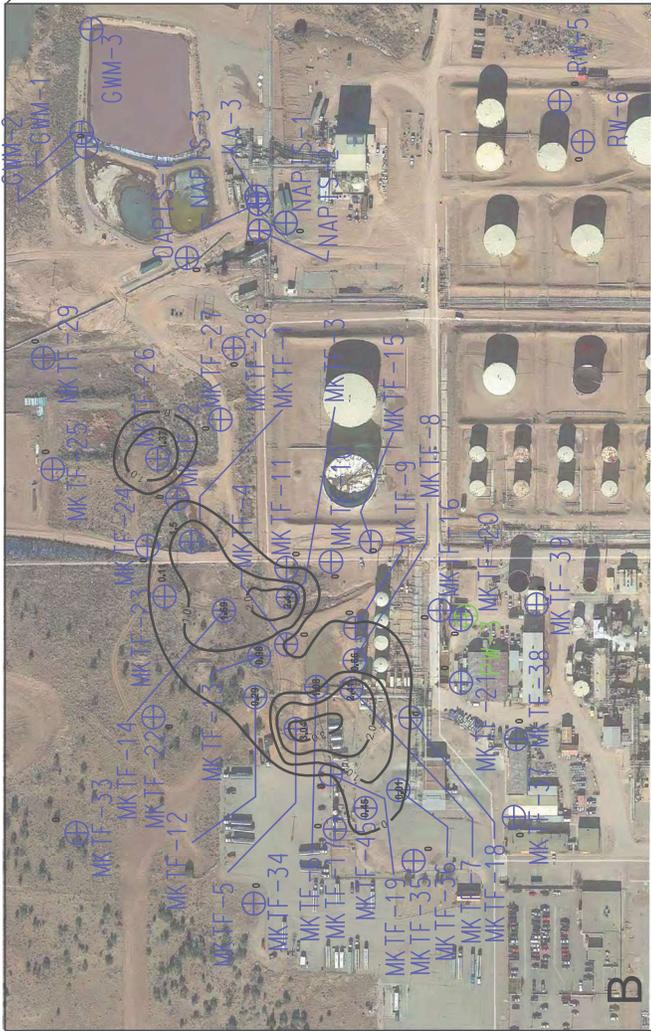


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1"=500'
 Project #: 06251318

Figure 12
Alluvial/Fluvial Upper Sand Water 2016
WESTERN REFINING - GALLUP REFINERY

Western Refining - Gallup Refinery
 92 Giant Crossing Road
 Gallup, New Mexico 87301
 Date: August 5, 2017



— SPH Contour Thickness (in feet)

Contour Interval: 1.0'

Scale:

Image A - Not to scale
 Image B - 1" = 200'
 Image C - 1" = 200'



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Line is 1 inch long
 on original

Project #: 06251318

Figure 13

Product Thickness Map (SPH for 09/16)

WESTERN REFINING - GALLUP REFINERY

Western Refining - Gallup Refinery
 92 Giant Crossing Road
 Gallup, New Mexico 87301
 Date: August 8, 2017



- LEGEND**
- █ CLAY
 - █ SANDY CLAY OR CLAYEY SAND
 - █ SAND
 - █ SILT
 - █ SHALE (CHINLE FORMATION)
 - █ SANDSTONE (CHINLE FORMATION)
 - PROFILE LINE
 - █ WATER BEARING ZONE
 - █ SCREENED INTERVAL

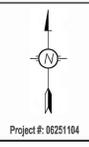
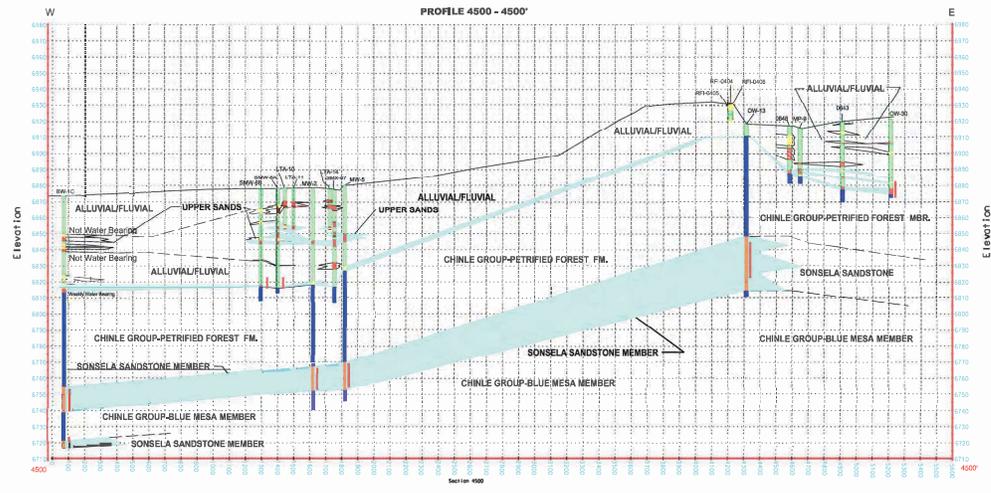


Figure 14
TYPICAL WEST - EAST GEOLOGIC PROFILE
WESTERN REFINING - GALLUP REFINERY

Western Refining - Gallup Refinery
 92 Giant Crossing Road
 Gallup, New Mexico 87301
 Date: August 8, 2017

Benzene (September 2016)

Contour Interval = 0.05



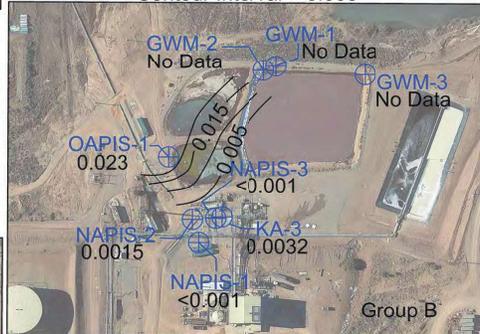
Total Xylenes (September 2016)

Contour Interval = 0.005



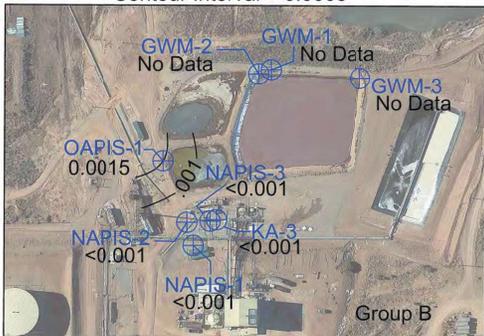
Ethyl Benzene (September 2016)

Contour Interval = 0.005



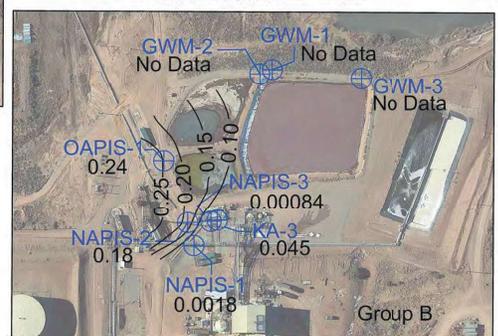
Toluene (September 2016)

Contour Interval = 0.0005

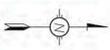


MTBE (September 2016)

Contour Interval = 0.05



4601 Ripley
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79922
915-384-1317



NTS

Project #: 062511-04

Figure 15

WELL GROUP B CONSTITUENTS

WESTERN REFINING - GALLUP REFINERY

Western Refining - Gallup Refinery
92 Giant Crossing Road
Gallup, New Mexico 87301

Date: August 22, 2017

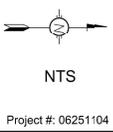
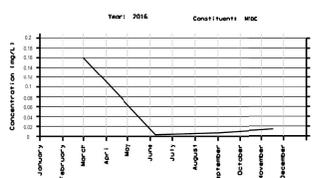
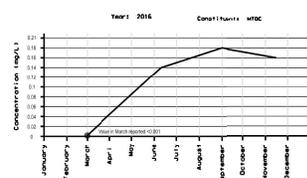
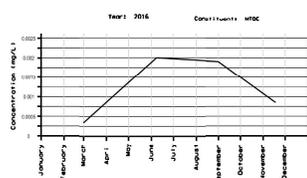
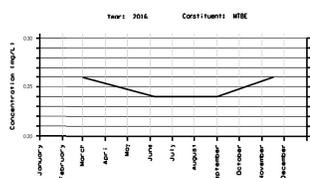
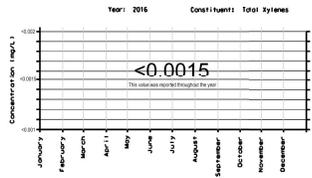
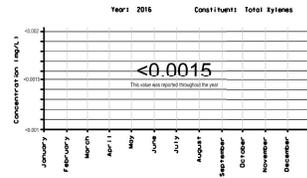
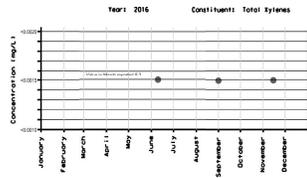
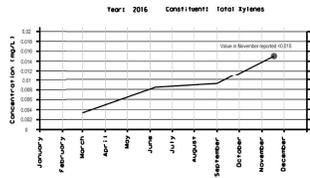
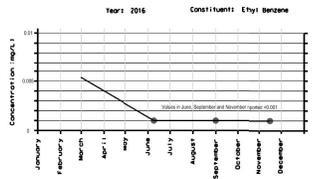
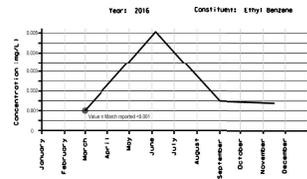
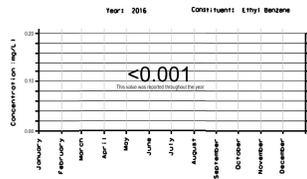
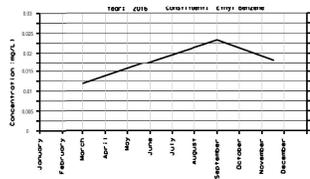
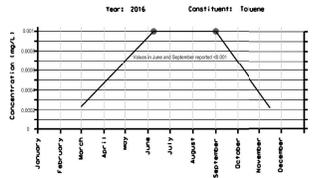
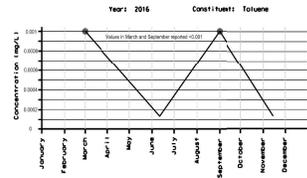
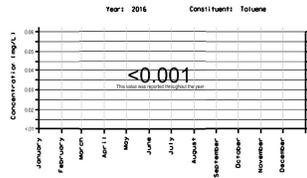
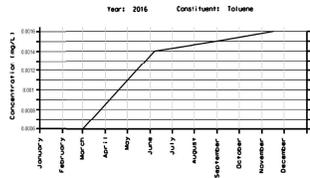
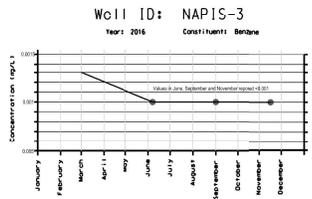
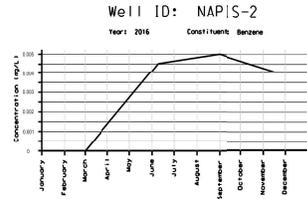
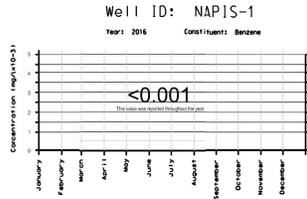
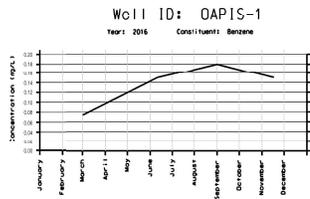


Figure 15.1
WELL GROUP B CONSTITUENTS
WESTERN REFINING - GALLUP REFINERY

Western Refining - Gallup Refinery
92 Giant Crossing Road
Gallup, New Mexico 87301
Date: August 22, 2017

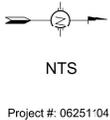
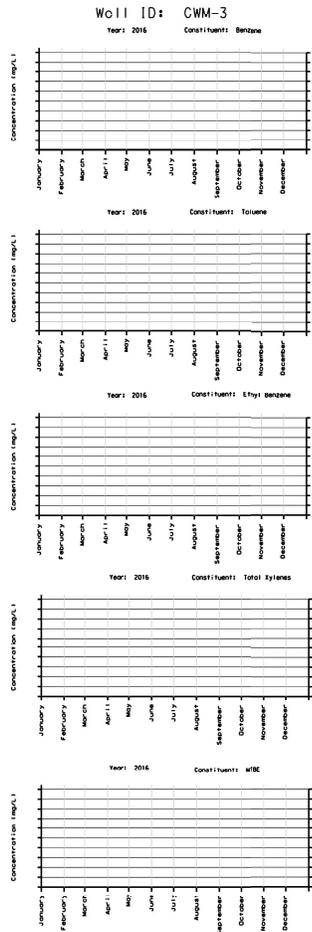
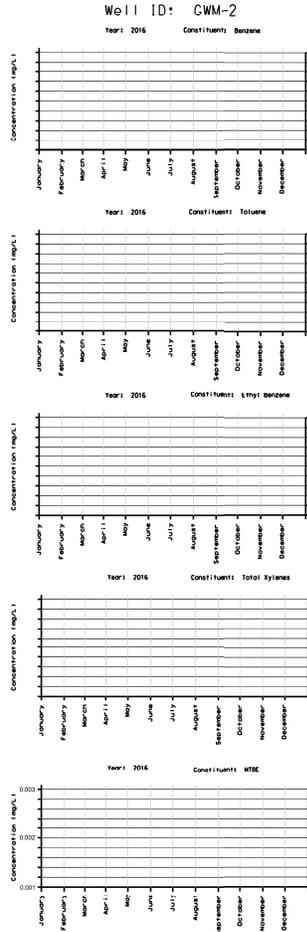
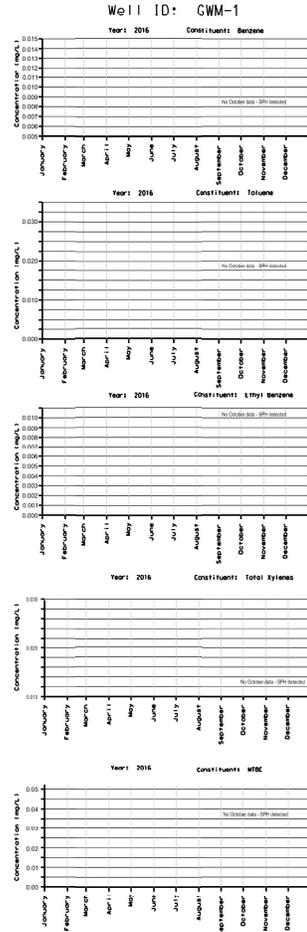
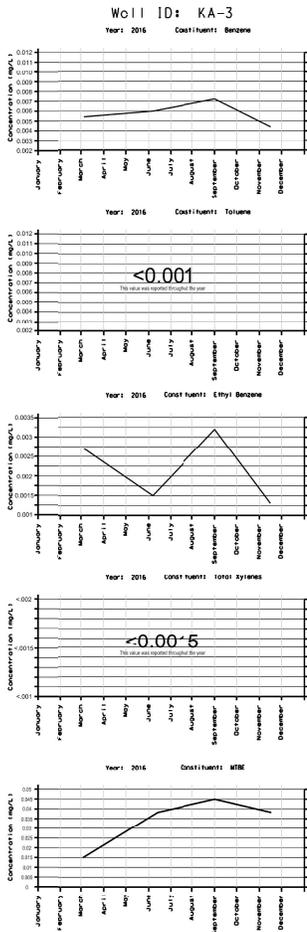


Figure 15.2
WELL GROUP B CONSTITUENTS
WESTERN REFINING - GALLUP REFINERY

Western Refining - Gallup Refinery
92 Giant Crossing Road
Gallup, New Mexico 87301
Date: August 22, 2017