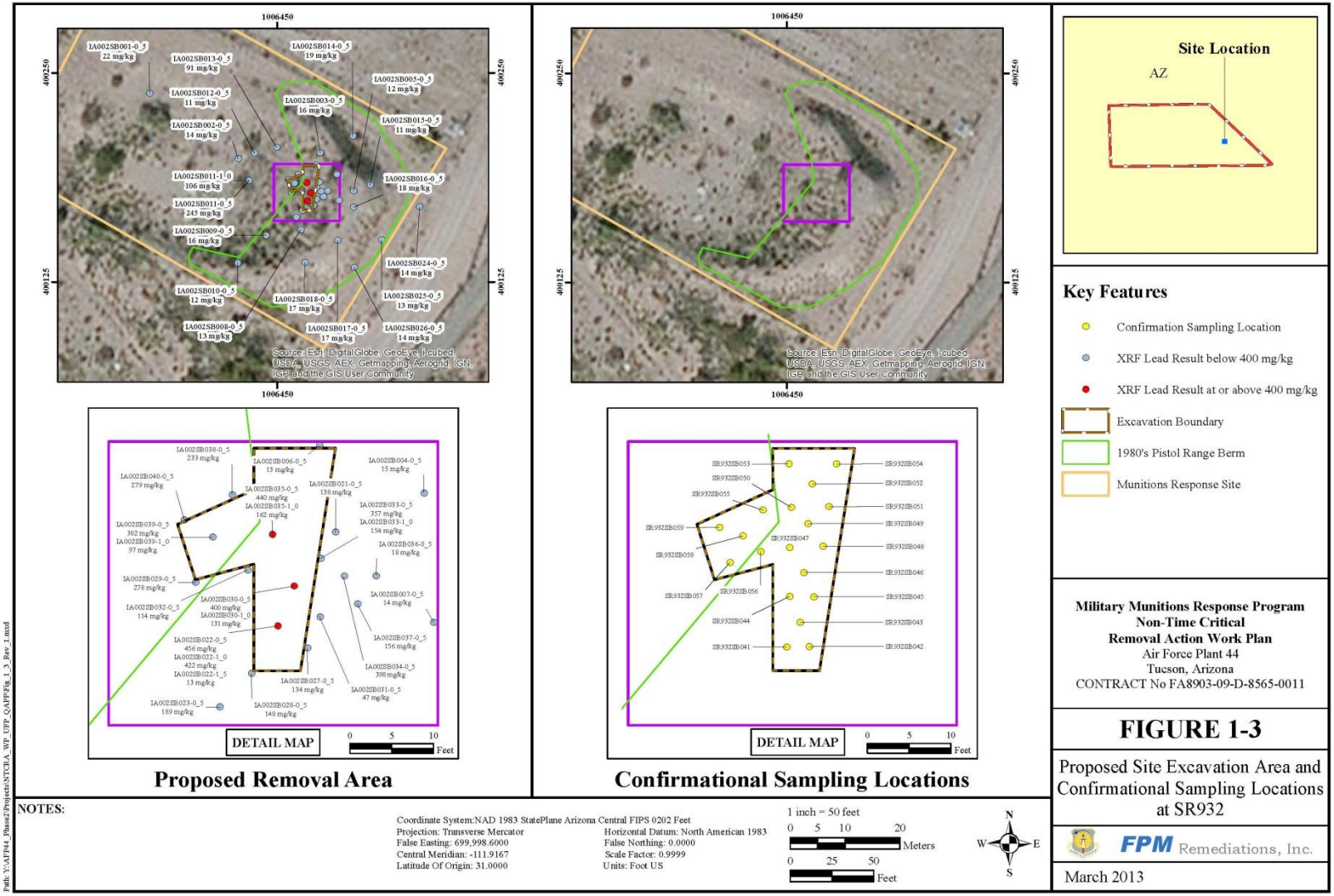
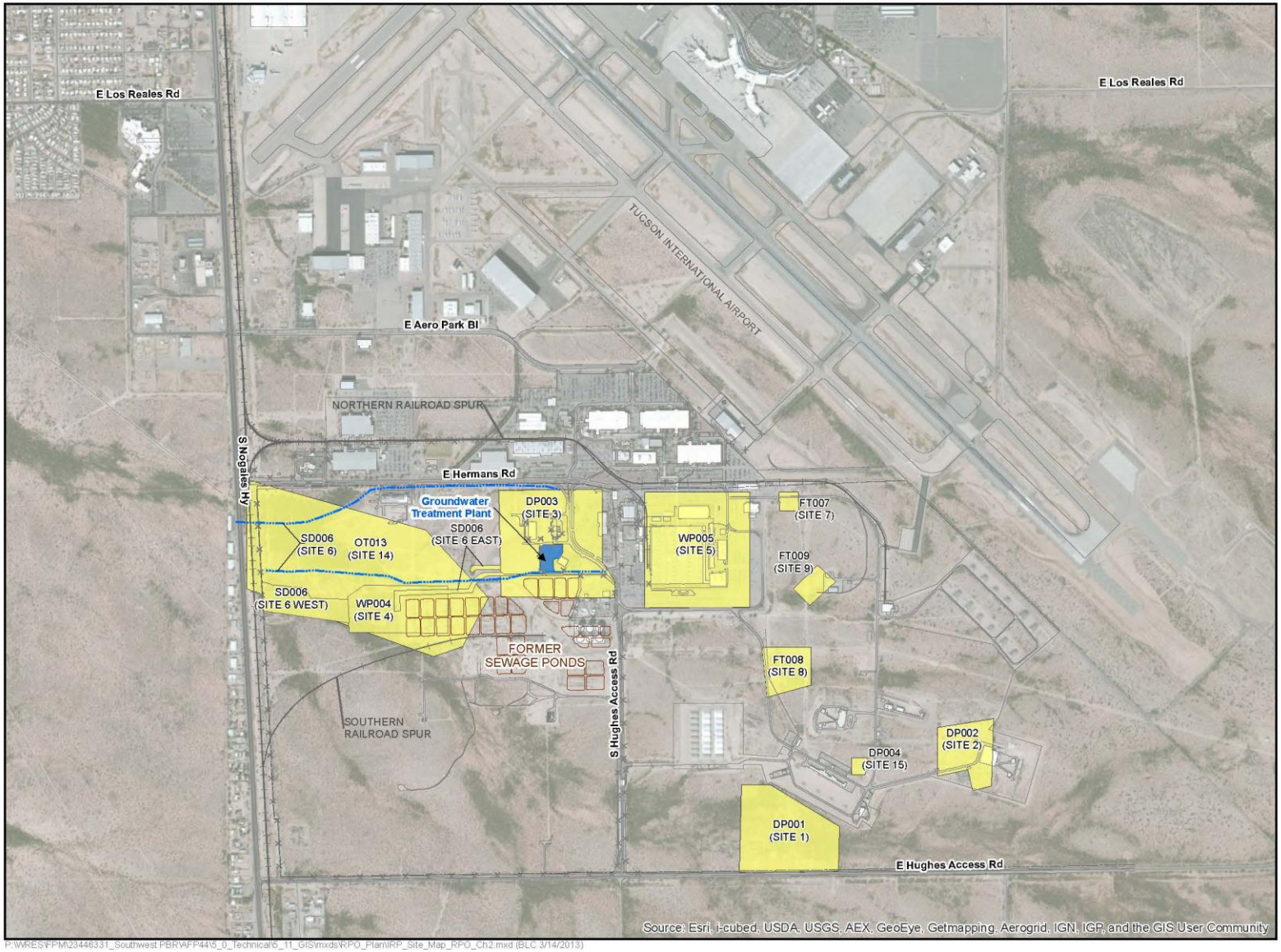
April 17, 2013
UCAB Meeting

Air Force Plant 44
Performance-Based Remediation Update

SR932 (IA002) 1980's Pistol Range
Site Status


1006450
400250
400125
IA002SB001-0_5 22 mg/kg
IA002SB013-0_5 91 mg/kg
IA002SB012-0_5 11 mg/kg
IA002SB002-0_5 14 mg/kg
IA002SB011-1_0 106 mg/kg
IA002SB011-0_5 245 mg/kg
IA002SB009-0_5 16 mg/kg
IA002SB010-0_5 12 mg/kg
IA002SB008-0_5 13 mg/kg
IA002SB014-0_5 19 mg/kg
IA002SB003-0_5 16 mg/kg
IA002SB005-0_5 12 mg/kg
IA002SB015-0_5 11 mg/kg
IA002SB016-0_5 18 mg/kg
IA002SB024-0_5 14 mg/kg
IA002SB025-0_5 13 mg/kg
IA002SB026-0_5 14 mg/kg
IA002SB018-0_5 17 mg/kg
IA002SB017-0_5 17 mg/kg
Source: Esri, DigitalGlobe, GeoEye, i-cubed, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, and the GIS User Community
DETAIL MAP
0 5 10 Feet
Proposed Removal Area
SR932SB053
SR932SB050
SR932SB055
SR932SB059
SR932SB058
SR932SB057
SR932SB056
SR932SB044
SR932SB041
SR932SB054
SR932SB052
SR932SB051
SR932SB049
SR932SB048
SR932SB046
SR932SB045
SR932SB043
SR932SB042
SR932SB047
Confirmational Sampling Locations
Site Location
AZ
Key Features
Confirmation Sampling Location
XRF Lead Result below 400 mg/kg
XRF Lead Result at or above 400 mg/kg
Excavation Boundary
1980's Pistol Range Berm
Munitions Response Site
NOTES:
Coordinate System:NAD 1983 StatePlane Arizona Central FIPS 0202 Feet
Projection: Transverse Mercator
False Easting: 699,998.6000
Central Meridian: -111.9167
Latitude Of Origin: 31.0000
Horizontal Datum: North American 1983
False Northing: 0.0000
Scale Factor: 0.9999
Units: Foot US
1 inch = 50 feet
0 5 10 20 Meters
0 25 50 Feet
N W E S
Path: Y:\AFP44_Phase2\Projects\NTCRA_WP_UFP_QAPP\Fig_1_3_Rev_1.mxd
Military Munitions Response Program
Non-Time Critical
Removal Action Work Plan
Air Force Plant 44
Tucson, Arizona
CONTRACT No FA8903-09-D-8565-0011
FIGURE 1-3
Proposed Site Excavation Area and Confirmational Sampling Locations at SR932
FPM Remediations, Inc.
March 2013

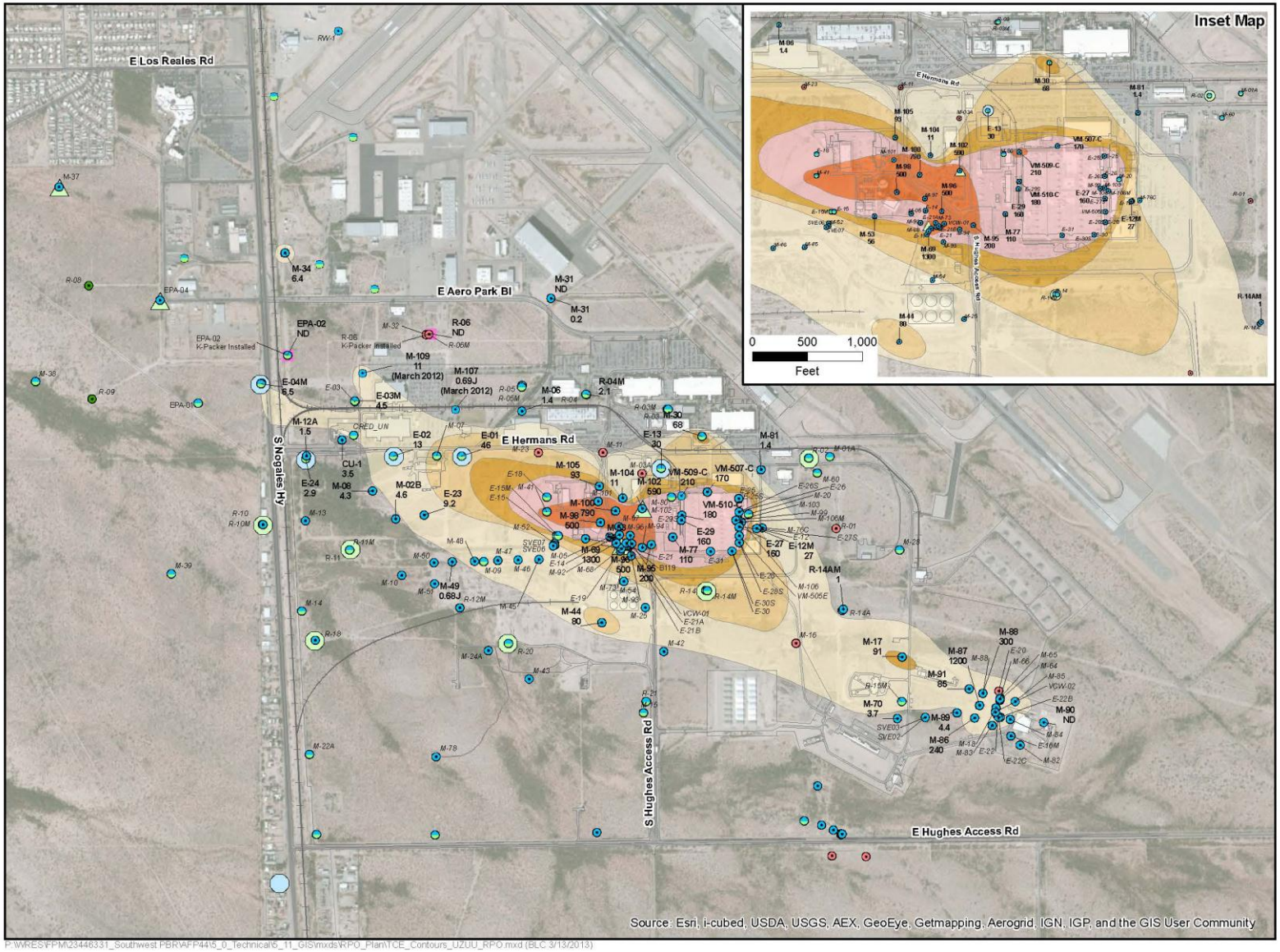
OT012, Regional Groundwater Plume South of Los Reales Road Site Status



P:\WRES\FPM\23446331_Southwest PBR\AFP44\5_0_Technical\6_11_GIS\mxds\RPO_Plan\IRP_Site_Map_RPO_Ch2.mxd (BLC 3/14/2013)

FPM

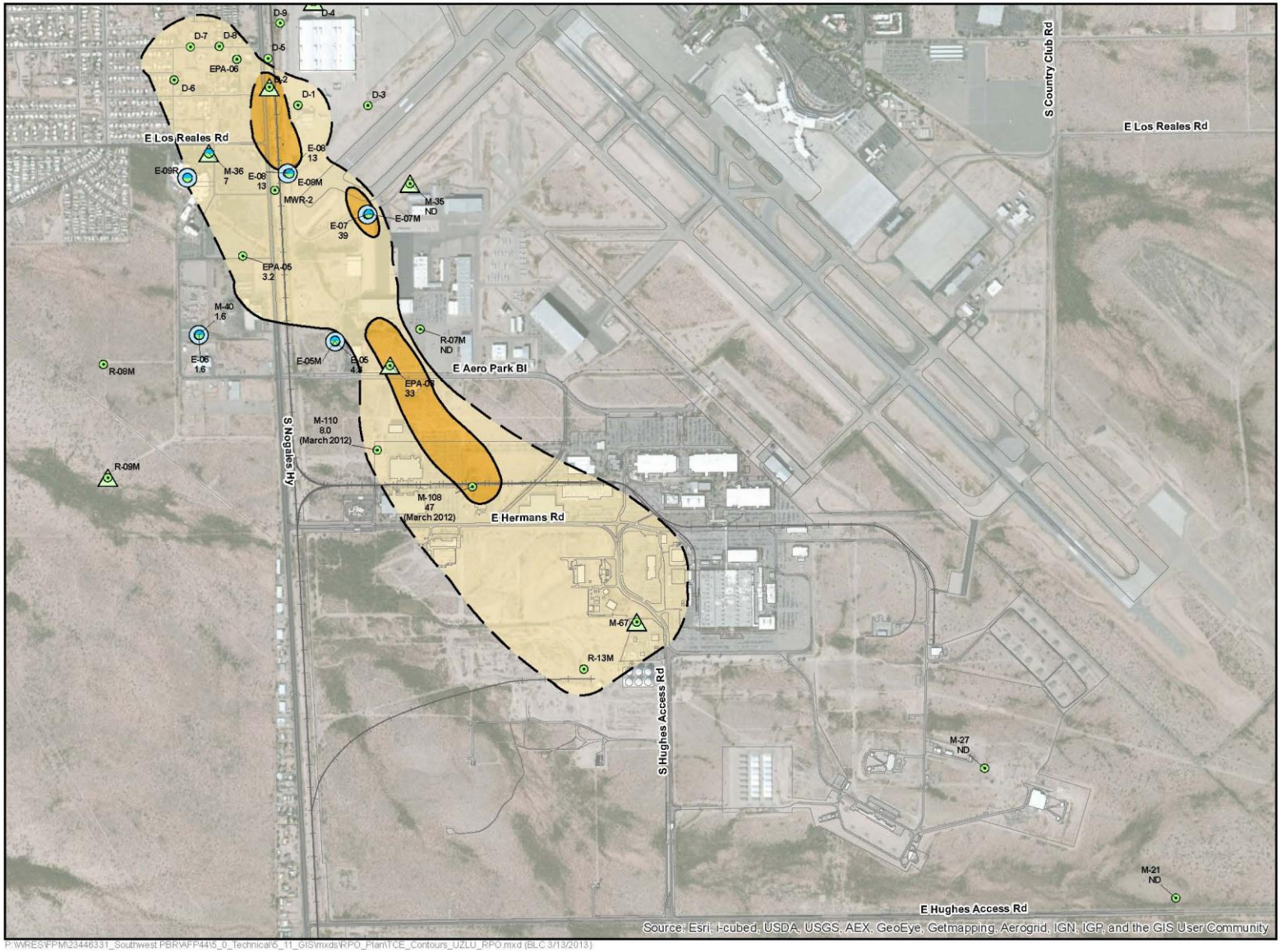
URS



P:\WRES\FPM\23446331_Southwest FBR\AFP4\5_0_Technical\5_11_GIS\mxds\RPO_Plan\TCE_Contours_UZUU_RPO.mxd (BLC 3/13/2013)

FPM

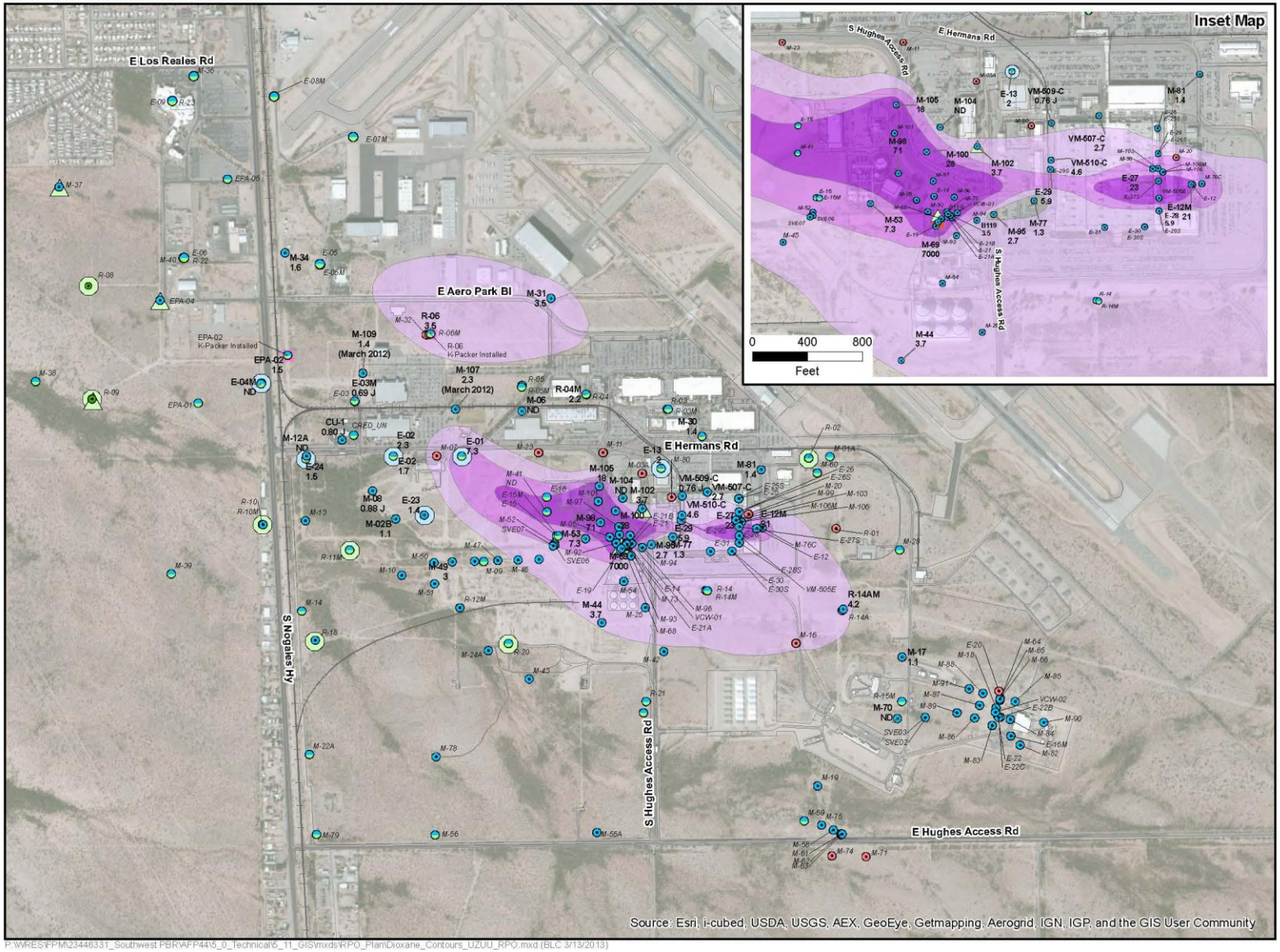
URS



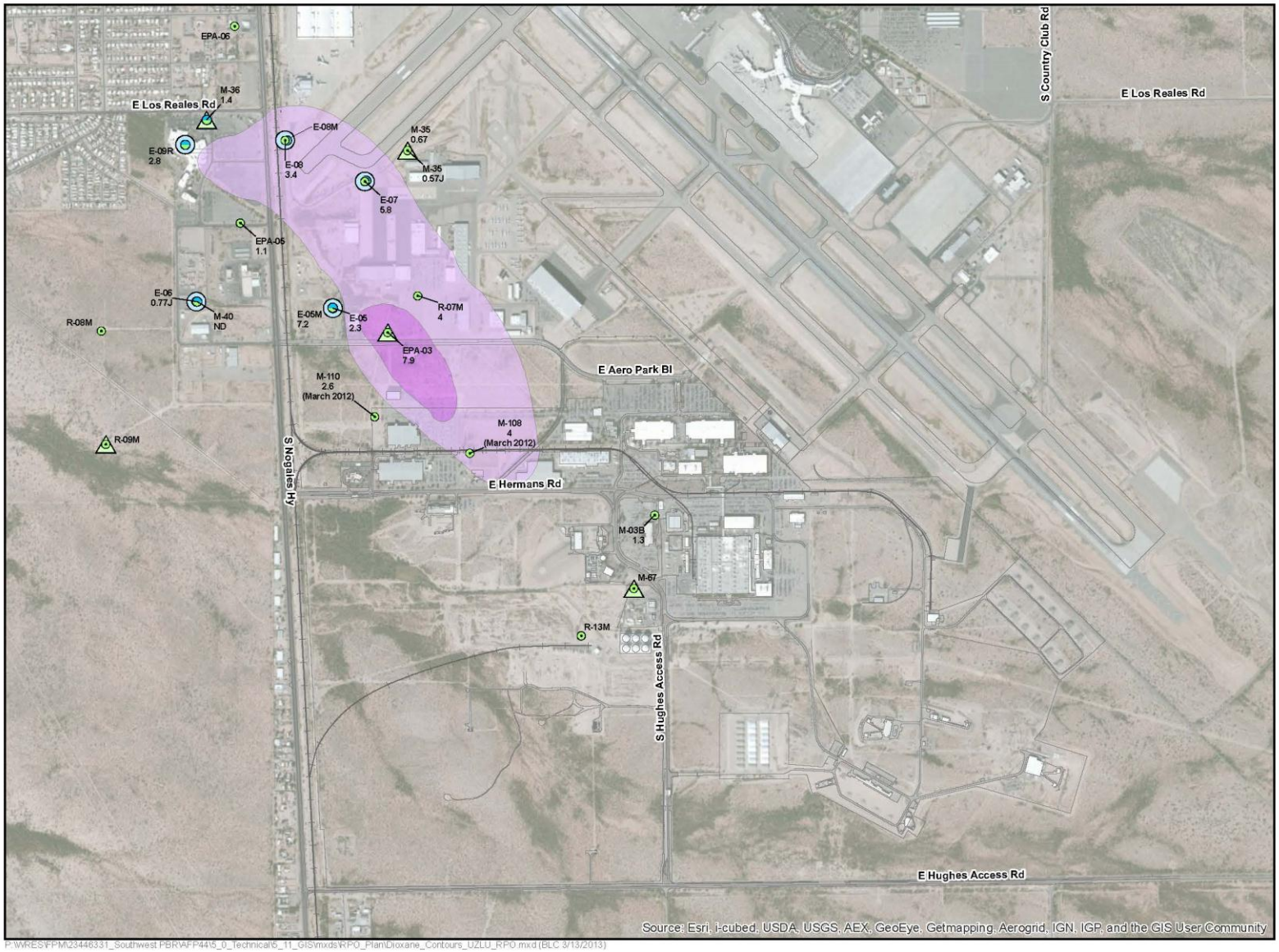
P:\WRES\FPM\23446331_Southwest PBR\AFP44\5_0_Technical\6_11_GIS\mxds\RPO_Plan\TCE_Contours_UZLU_RPO.mxd (BLC 3/13/2013)

FPM

URS



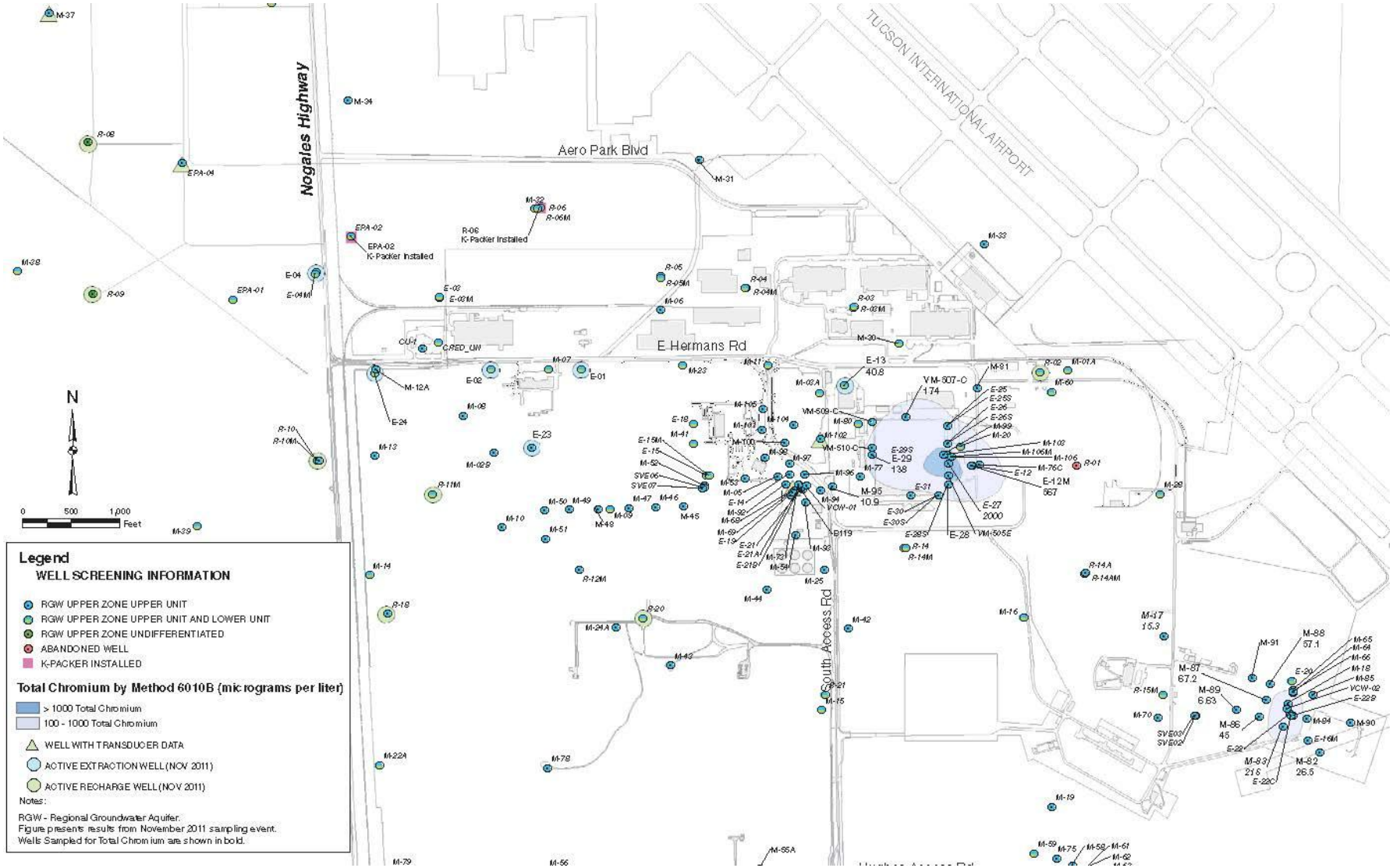
P:\WRES\FPM\23446331_Southwest PBR\AFP44\5_0_Technical\5_11_GIS\mxds\RPO_Plan\Dioxane_Contours_UZUU_RPO.mxd (BLC 3/13/2013)



P:\WRES\FPM\23446331_Southwest PBR\VAFP4415_0_Technical\5_11_GIS\mxds\RPO_Plan\Dioxane_Contours_UZLU_RPO.mxd (BLC 3/13/2013)

FPM

URS


Nogales Highway
Aero Park Blvd
E Hermans Rd
TUCSON INTERNATIONAL AIRPORT
South Access Rd
N
0 500 1,000 Feet
Legend
WELL SCREENING INFORMATION
RGW UPPER ZONE UPPER UNIT
RGW UPPER ZONE UPPER UNIT AND LOWER UNIT
RGW UPPER ZONE UNDIFFERENTIATED
ABANDONED WELL
K-PACKER INSTALLED
Total Chromium by Method 6010B (micrograms per liter)
> 1000 Total Chromium
100 - 1000 Total Chromium
WELL WITH TRANSDUCER DATA
ACTIVE EXTRACTION WELL (NOV 2011)
ACTIVE RECHARGE WELL (NOV 2011)
Notes:
RGW - Regional Groundwater Aquifer.
Figure presents results from November 2011 sampling event.
Wells Sampled for Total Chromium are shown in bold.

FPM

URS

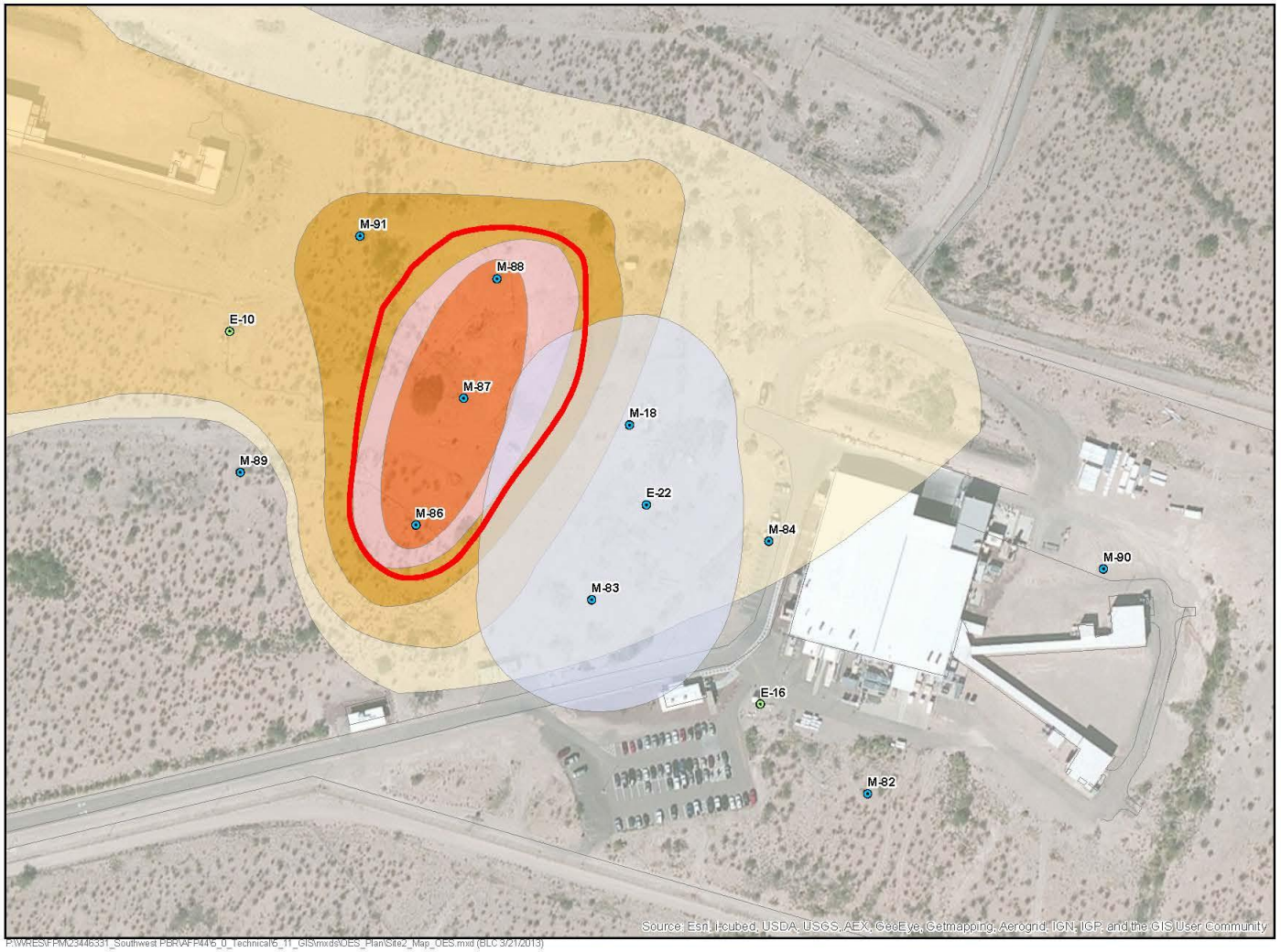


Figure 6-6

Proposed ISB
Treatment Area
DP002 (Site 2)

Air Force Plant 44 Tucson, Arizona

Legend

- Regional Groundwater Aquifer Upper Zone Upper Unit
- Regional Groundwater Aquifer Upper Zone Lower Unit
- Fracturing and Injection Area

Chromium Plume November 2011

Sampling Event (µg/L)

- 10-1000

TCE Plume November 2011

Sampling Event (µg/L)

- >200
- 100 - 200
- 50 - 100
- 25 - 50
- 5 - 25

Base Map Source:
AECOM, 2012. *Installation Restoration Program Environmental Remediation Annual Update – Site OT-12, July 2011 Through June 2012, Air Force Plant 44, Tucson International Airport Area Superfund Site, Tucson, Arizona.*

N

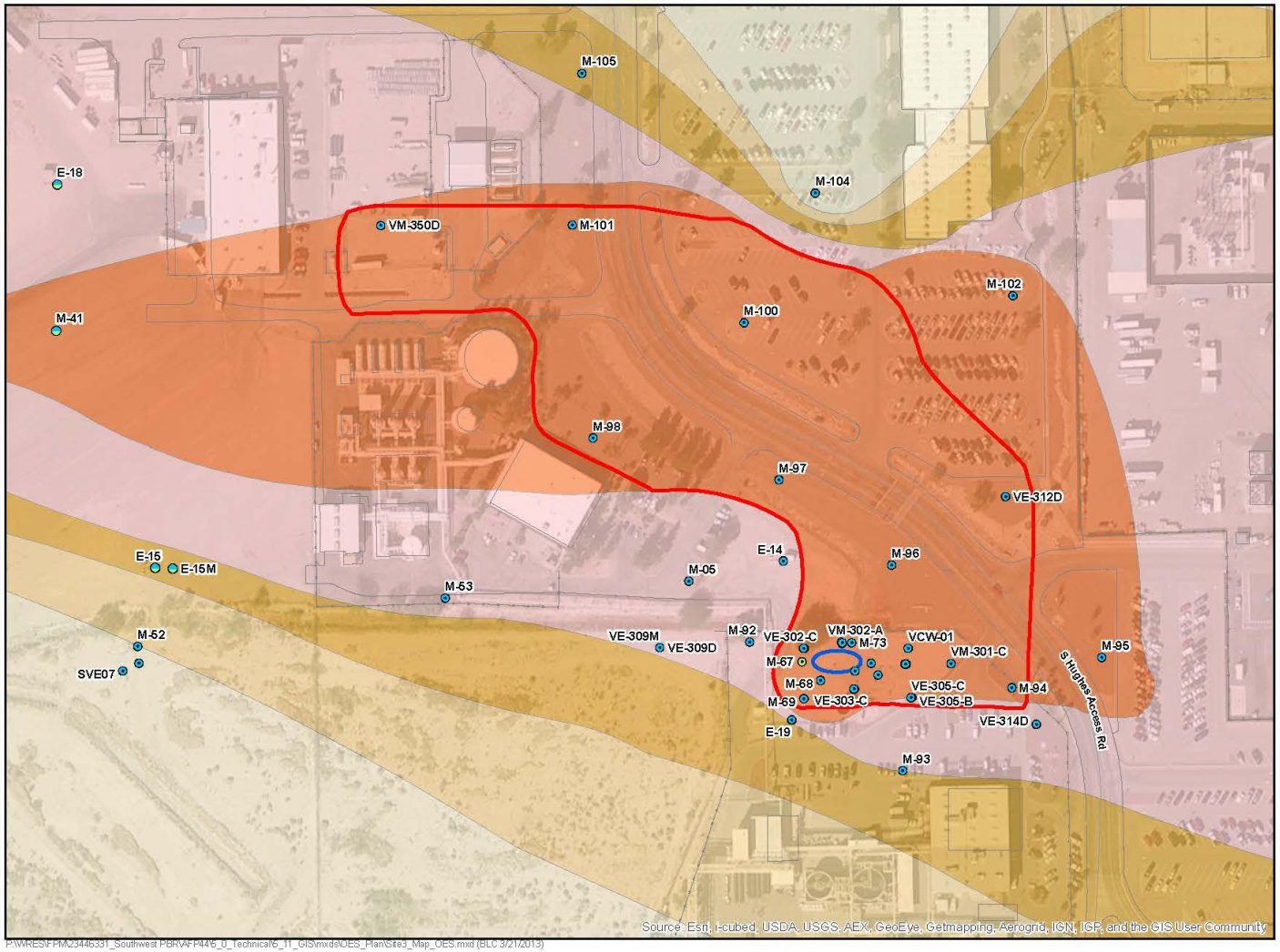
0 150 300
Feet

URS

P:\WRES\FPM\23446331_Southwest PER\AFP44\6_0_Technical\6_11_GIS\mxds\OES_Plan\Site2_Map_OES.mxd (BLC 3/21/2013)

FPM

URS



P:\WRES\FPM23446331_Southwest PBR\AFP44\5_0_Technical\5_11_GIS\mxds\OES_Plan\Site3_Map_OES.mxd (BLC 3/21/2013)

Figure 6-8

Proposed ISOC® Treatment Area DP003 (Site 3)

Air Force Plant 44 Tucson, Arizona

Legend

- Regional Groundwater Upper Zone Upper Unit
- Regional Groundwater Upper Zone Lower Unit
- Regional Groundwater Upper Zone, Upper Unit and Lower Unit
- Proposed Treatment Area
- Former Solvent Disposal Pit Location

TCE Plume November 2011

Sampling Event (µg/L)

- >200
- 100 - 200
- 50 - 100
- 25 - 50
- 5 - 25

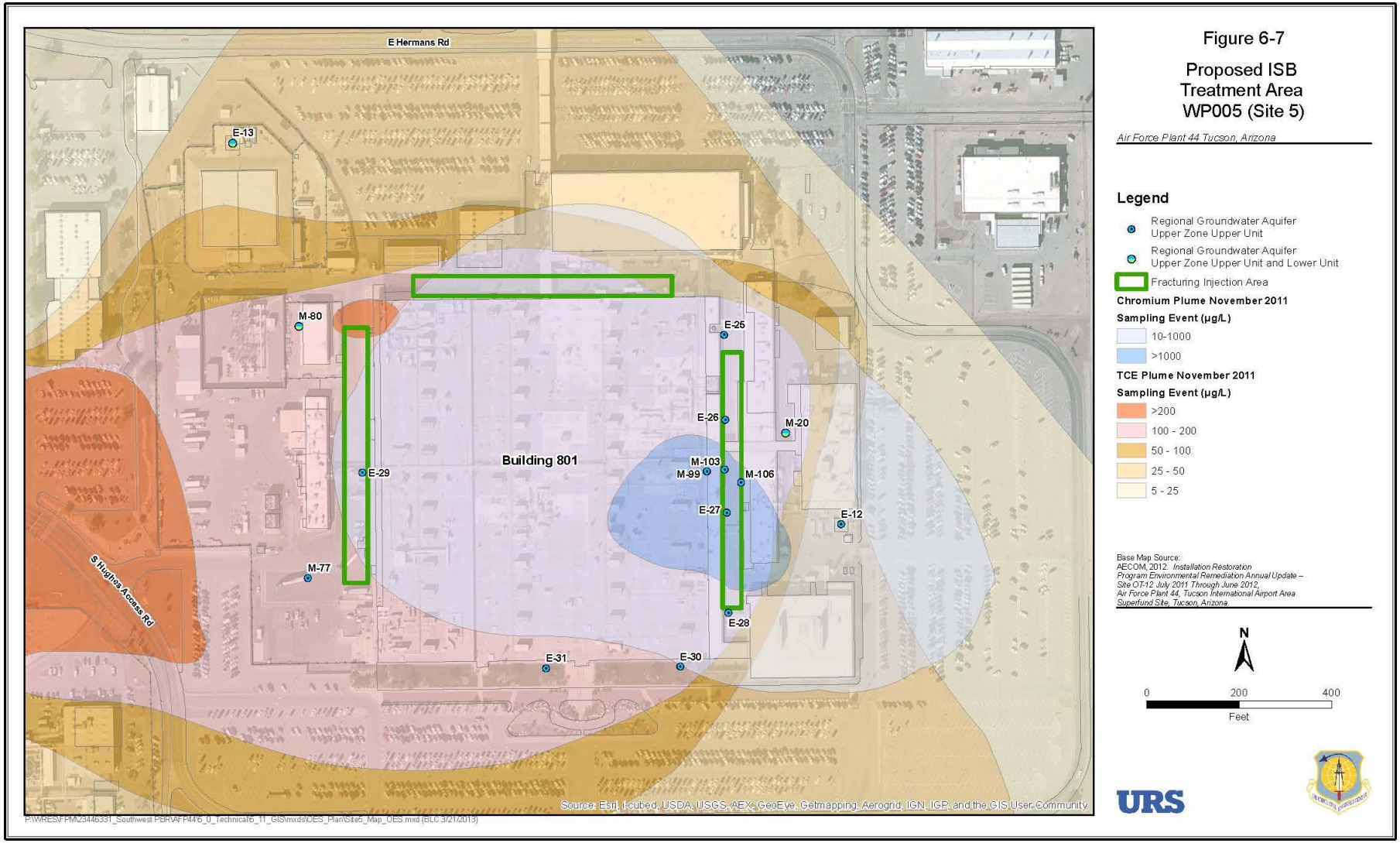
Base Map Source:
AECOM, 2012. *Installation Restoration Program Environmental Remediation Annual Update – Site OT-12 July 2011 Through June 2012, Air Force Plant 44, Tucson International Airport Area Superfund Site, Tucson, Arizona.*

N

0 150 300

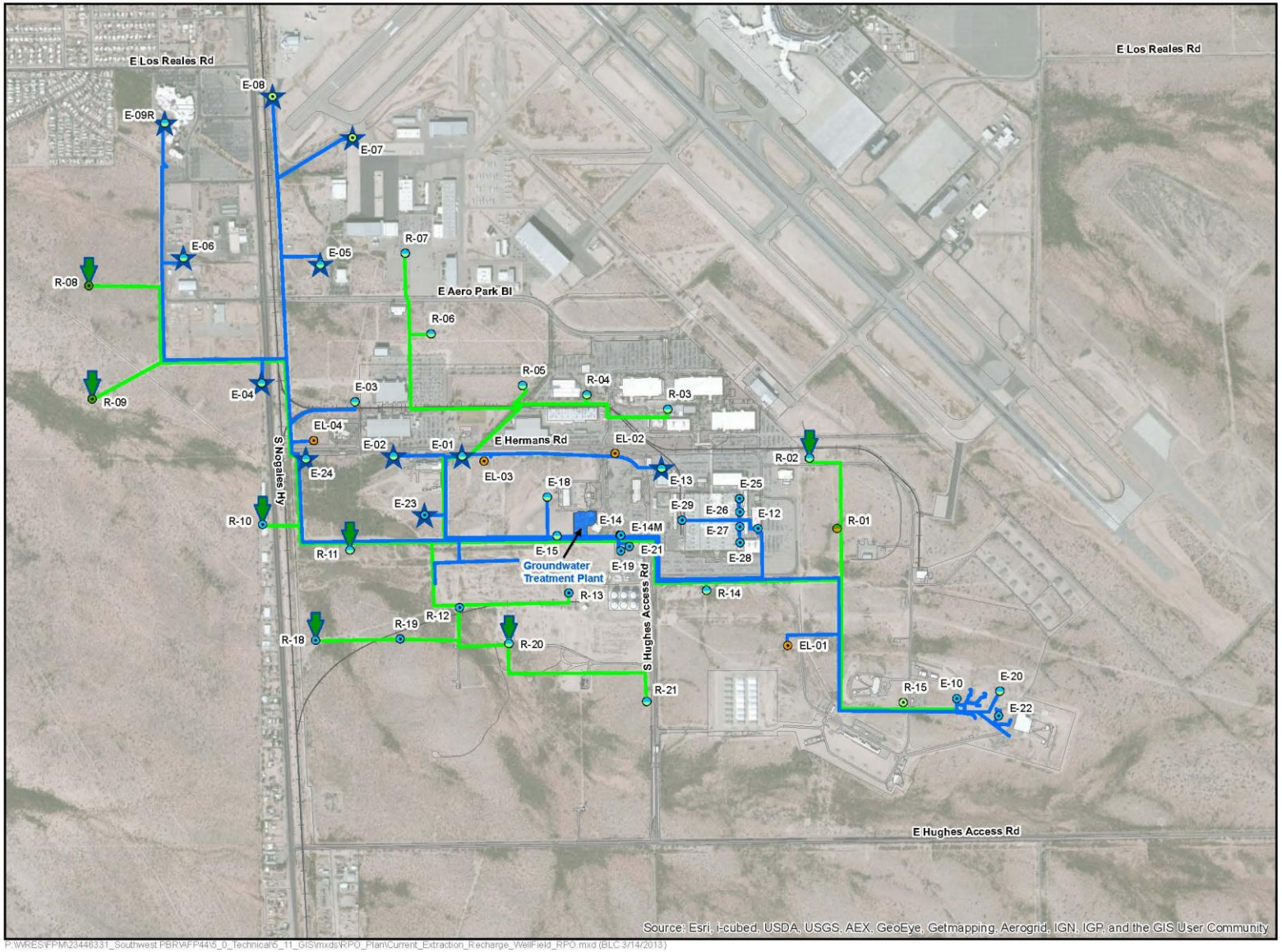
Feet

URS


E Hermans Rd
E-13
M-80
E-25
E-26
M-20
Building 801
M-103
M-99
M-106
E-29
E-27
E-12
M-77
S Hughes Access Rd
E-28
E-31
E-30
Source: Esri, i-cubed, USDA, USGS, AEX, GeoEye, Getmapping, Aerogrid, IGN, IGP, and the GIS User Community
P:\WRES\FPM23446331_Southwest PBR\AFP44\6_0_Technical\6_11_GIS\mxds\OES_Plan\Site5_Map_OES.mxd (BLC 3/21/2013)
Figure 6-7
Proposed ISB Treatment Area WP005 (Site 5)
Air Force Plant 44 Tucson, Arizona
Legend
Regional Groundwater Aquifer Upper Zone Upper Unit
Regional Groundwater Aquifer Upper Zone Upper Unit and Lower Unit
Fracturing Injection Area
Chromium Plume November 2011
Sampling Event (µg/L)
10-1000
>1000
TCE Plume November 2011
Sampling Event (µg/L)
>200
100 - 200
50 - 100
25 - 50
5 - 25
Base Map Source:
AECOM, 2012. Installation Restoration Program Environmental Remediation Annual Update – Site OT-12 July 2011 Through June 2012, Air Force Plant 44, Tucson International Airport Area Superfund Site, Tucson, Arizona.
N
0
200
400
Feet
URS

FPM

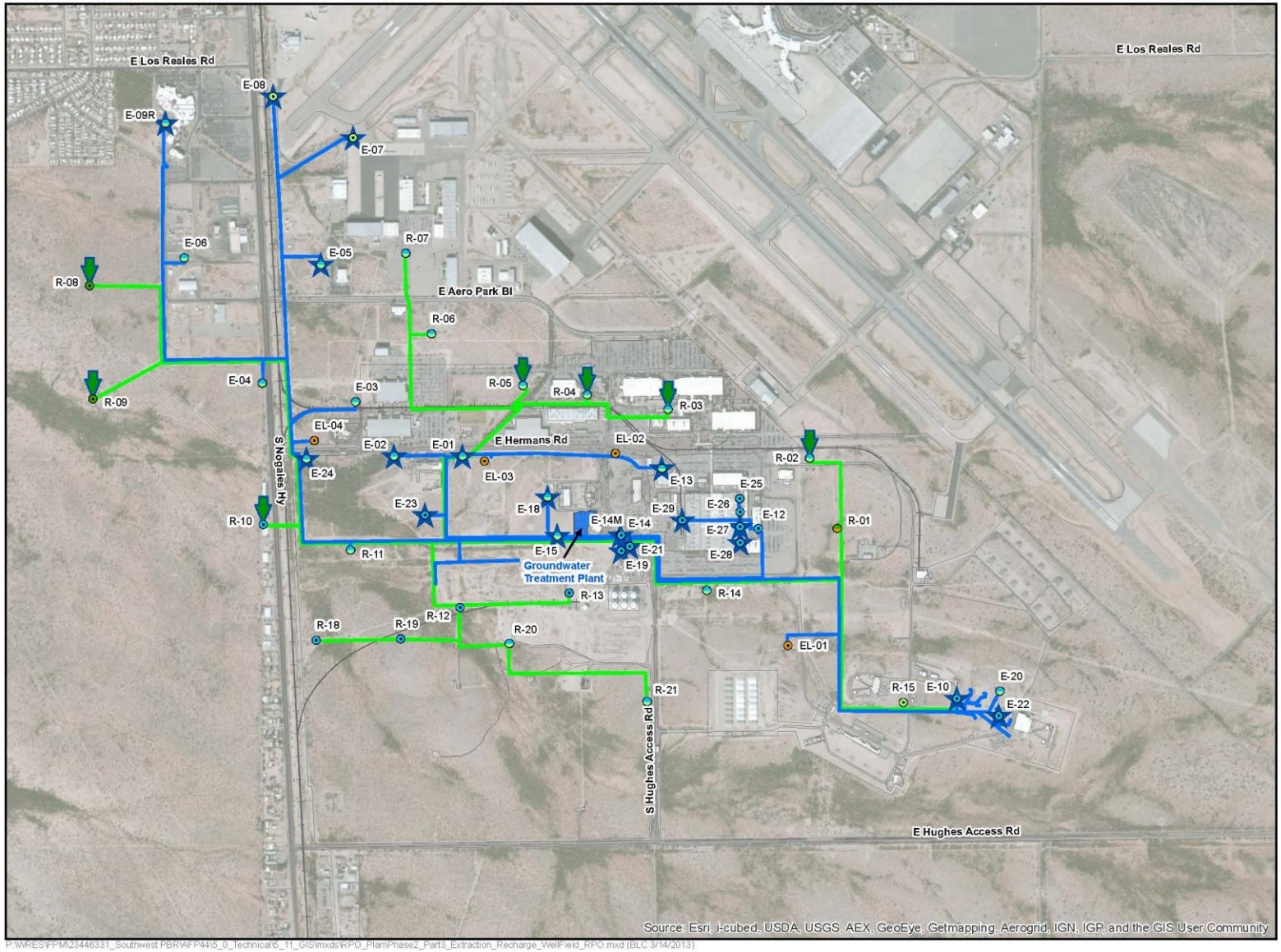
URS



P:\WRES\FPM\23446331_Southwest PBR\AFP44\5_0_Technical\5_11_GIS\mxds\RPO_Plan\Current_Extraction_Recharge_WellField_RPO.mxd (BLC 3/14/2013)

FPM

URS



P:\WRES\FPM\23446331_Southwest PBR\AFP44\5_0_Technical\5_11_GIS\mxds\RPO_Plan\Phase2_Part3_Extraction_Recharge_WellField_RPO.mxd (BLC 3/14/2013)