

Figure

8-1



NERT RI Study Area Operable Units 1 and 2
Nevada Environmental Response Trust Site
Henderson, Nevada

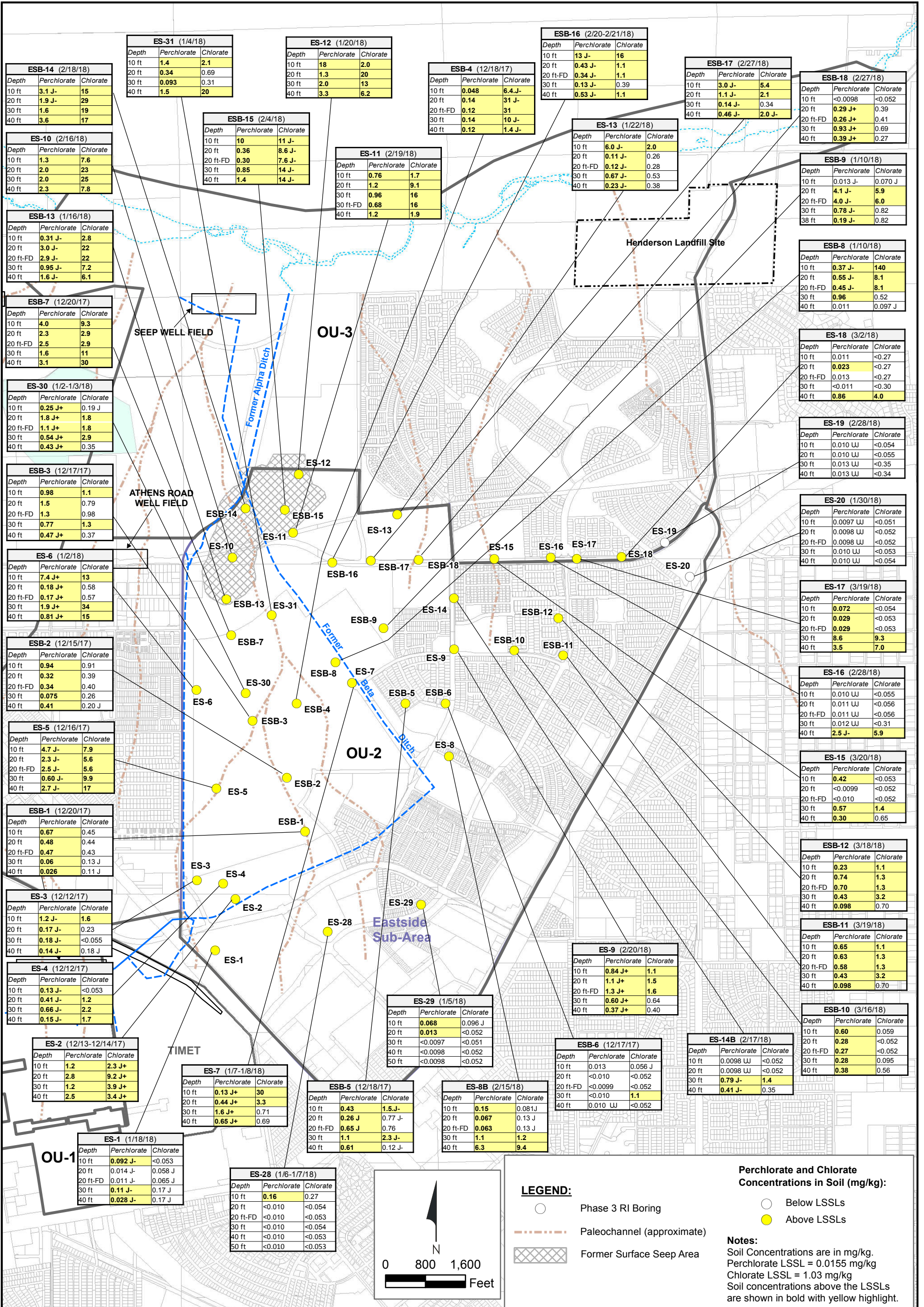
Drafter: RS

Date: 5/4/2020

Contract Number: 169001 6064

Approved:

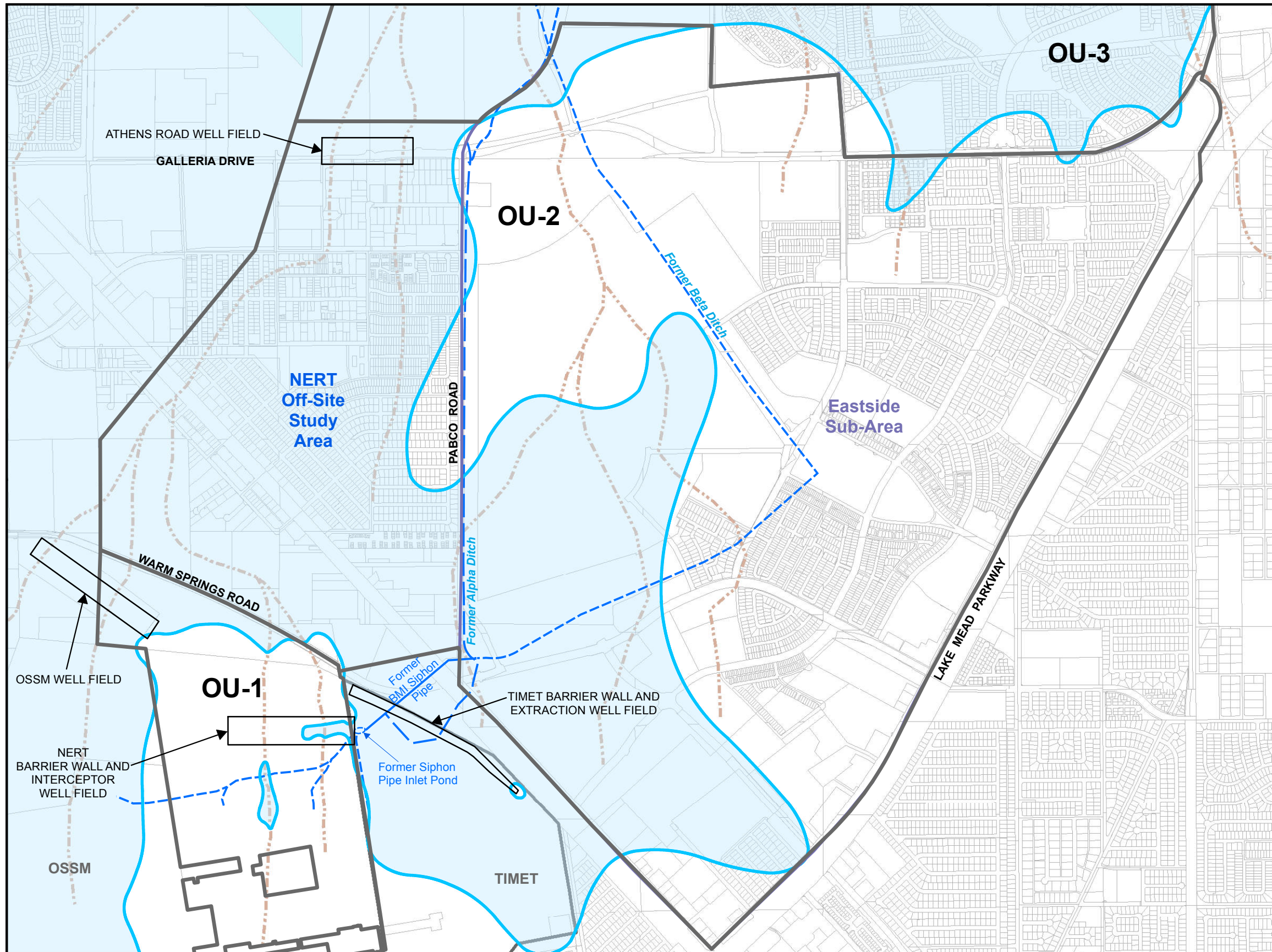
Revised:



Perchlorate and Chlorate in Soil - OU-2, Eastside Sub-Area
 Nevada Environmental Response Trust Site
 Henderson, Nevada

Figure
8-2





LEGEND:

- Saturated Alluvium
- Paleochannel

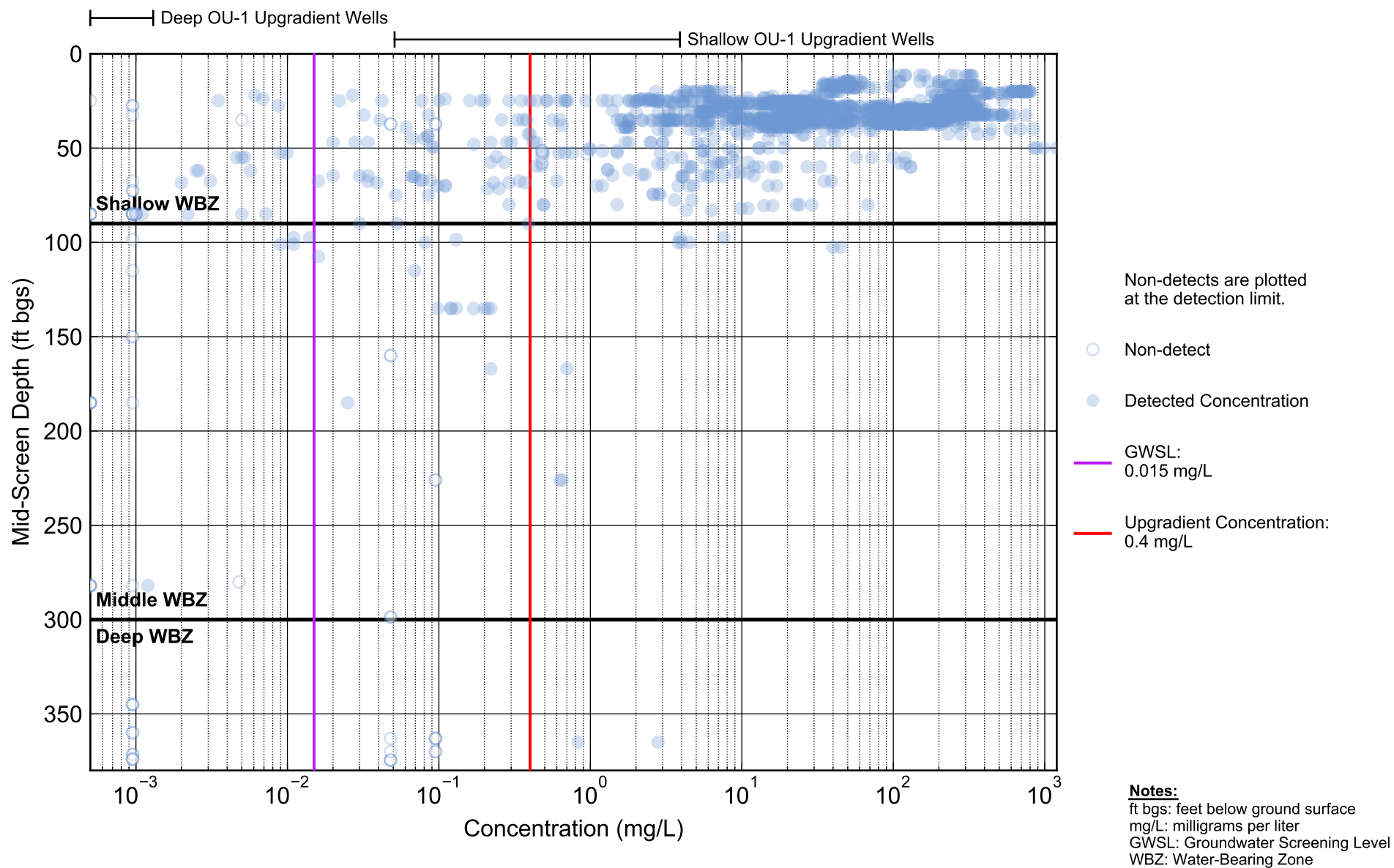
Notes:

1. The NERT Off-Site Study Area is located in OU-2 west of Pabco Road.
2. The Eastside Sub-Area is located in OU-2 east of Pabco Road.



Extent of Saturated Alluvium in OU-2
 Nevada Environmental Response Trust Site
 Henderson, Nevada

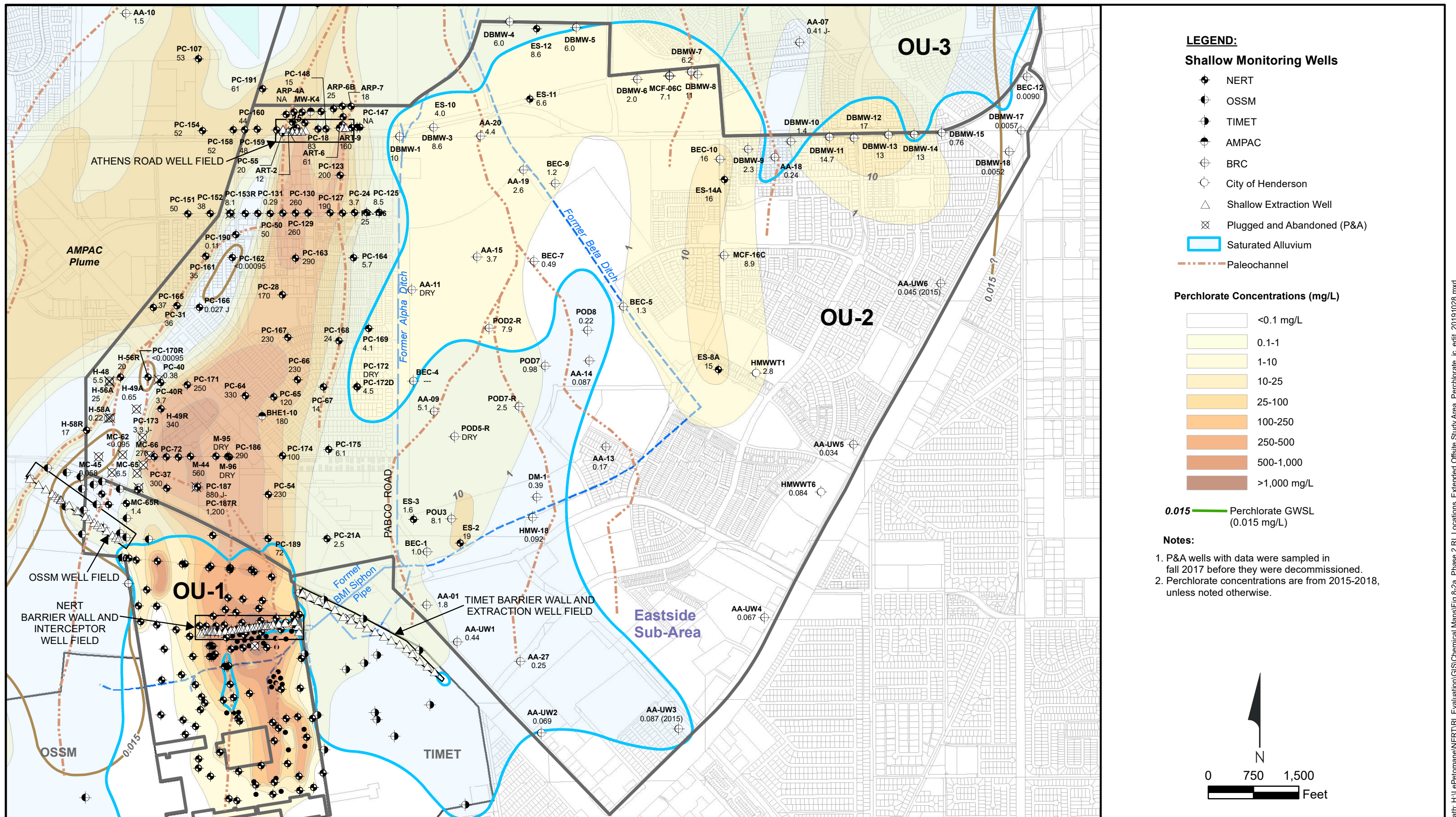
Figure
8-3



OU-2 Perchlorate Groundwater Concentrations vs. Sample Depth
 Nevada Environmental Response Trust Site
 Henderson, Nevada

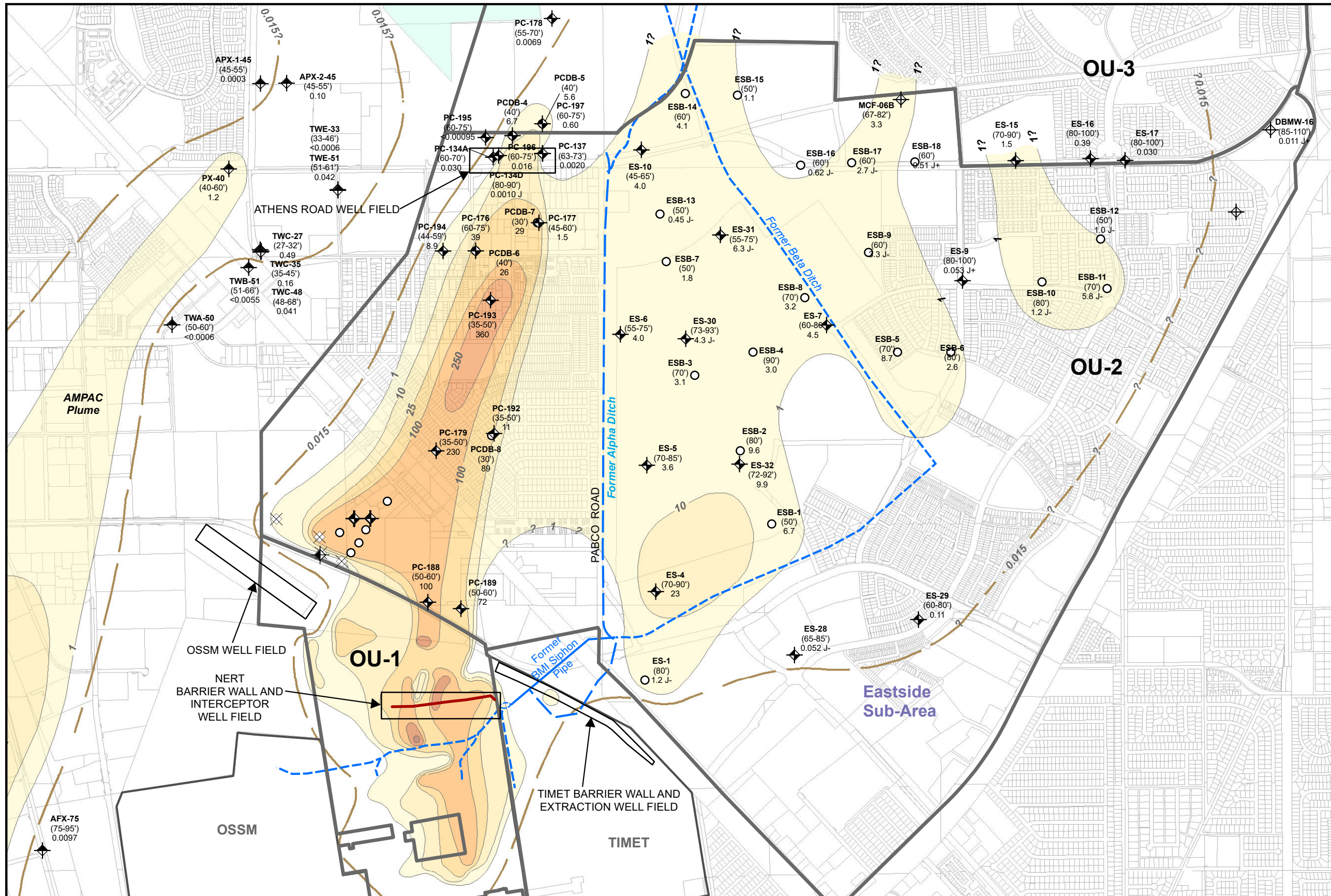
Figure

8-4a



Perchlorate Isoconcentration Map – OU-2 Shallow WBZ (0-40 ft bgs)
 Nevada Environmental Response Trust Site
 Henderson, Nevada

Figure
8-4b



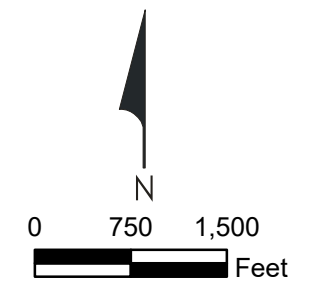
- LEGEND:**
- Shallow WBZ Wells**
- ◆ NERT
 - ◆ OSSM
 - ◆ BRC
 - ◆ AMPAC
 - ⊗ Plugged and Abandoned (P&A)
 - Deep Soil Boring

Perchlorate Concentrations (ppm)

<1
1-10
10-25
25-100
100-250
250-500
500-1,000
>1,000

0.015 — Perchlorate GWSL (0.015 mg/L)

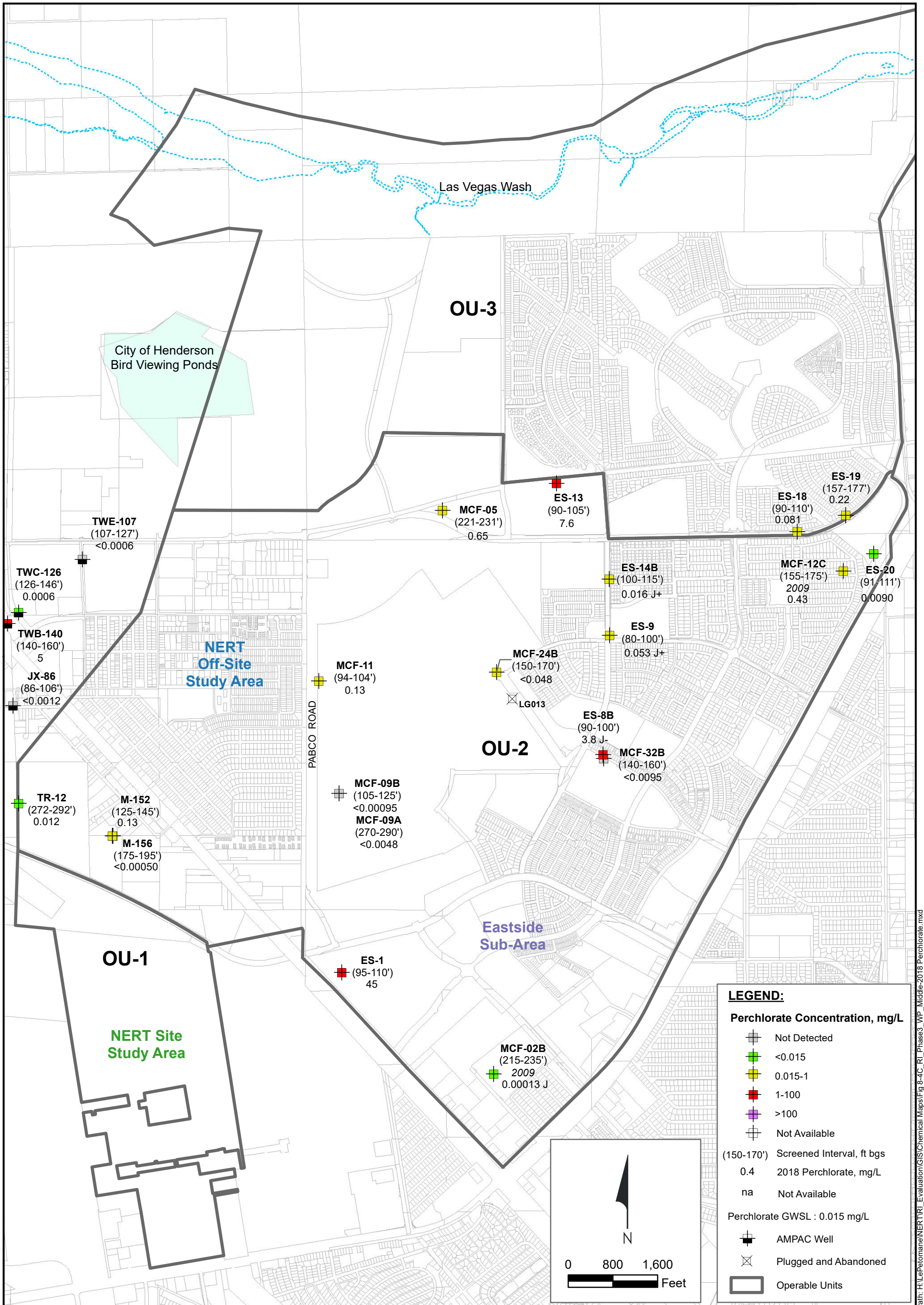
- Notes:**
1. P&A wells with data were sampled in fall 2017 before they were decommissioned.
 2. Perchlorate concentrations are from 2015-2018, unless noted otherwise.
 3. Groundwater concentrations are in mg/L.
 4. Soil concentrations in mg/kg may be higher than groundwater sampled at the same location and depth.



Perchlorate Isoconcentration Map – OU-2 Shallow WBZ (~40-90 ft bgs)
 Nevada Environmental Response Trust Site
 Henderson, Nevada

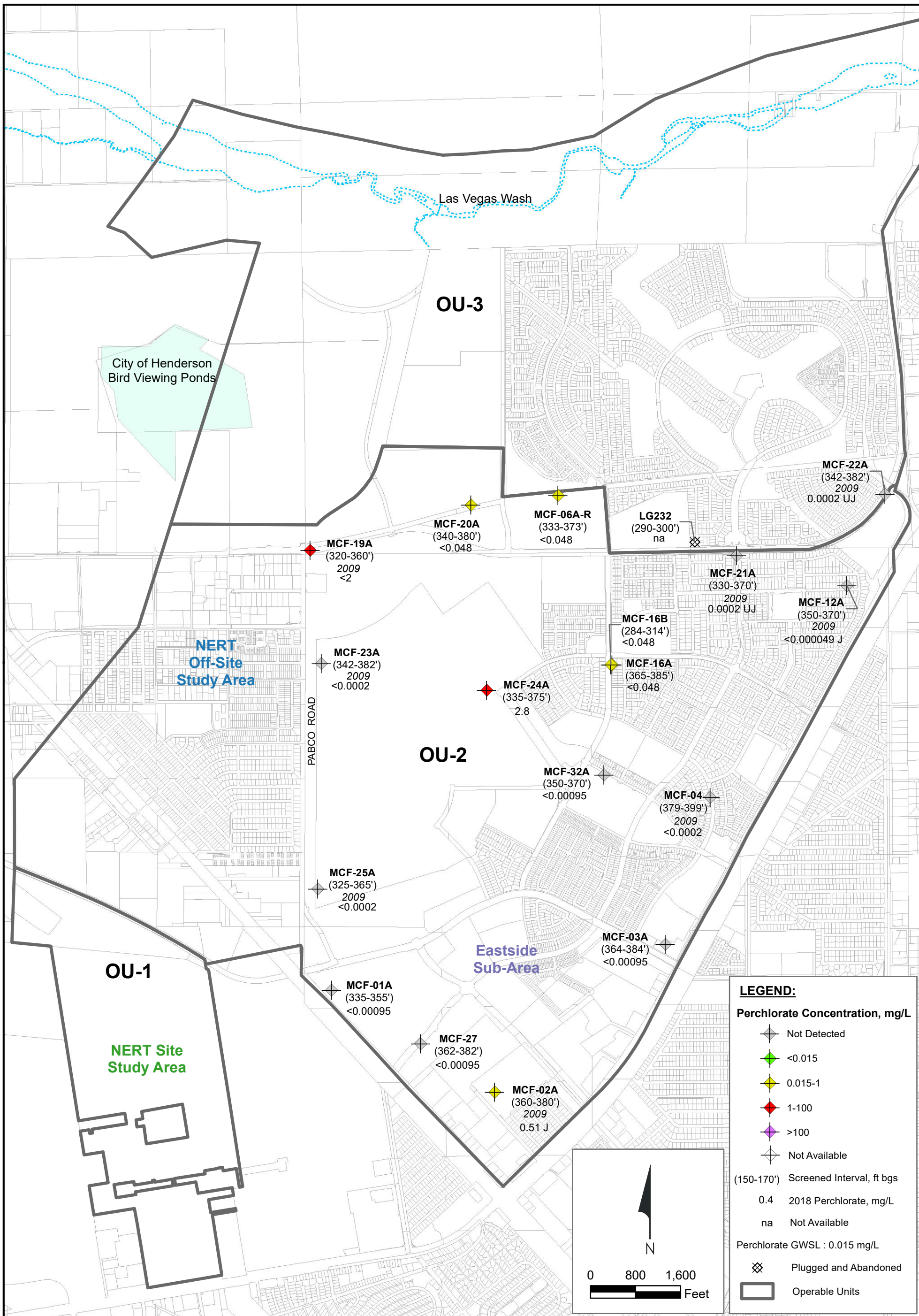
Figure
8-4c

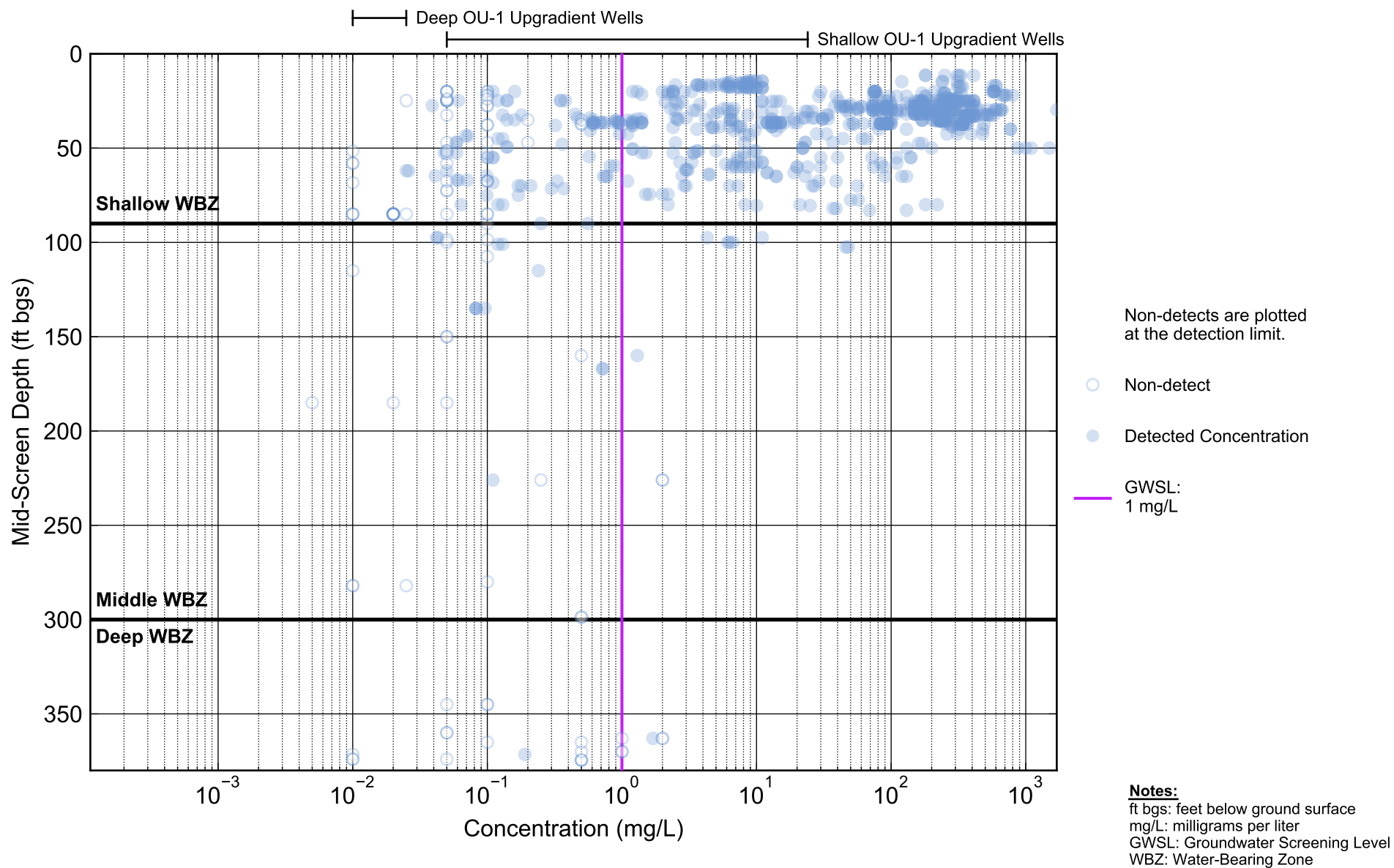
Path: H:\LePetomane\NERT\RI_Evaluation\GIS\Chemical Maps\Fig 8-3a_OU2_NERT Offsite shallow WBZ 45-90ft Perchlorate-Det 3.mxd



Perchlorate - OU-2 Middle WBZ (90-300 ft bgs)
Nevada Environmental Response Trust Site
Henderson, Nevada

Figure
8-4d

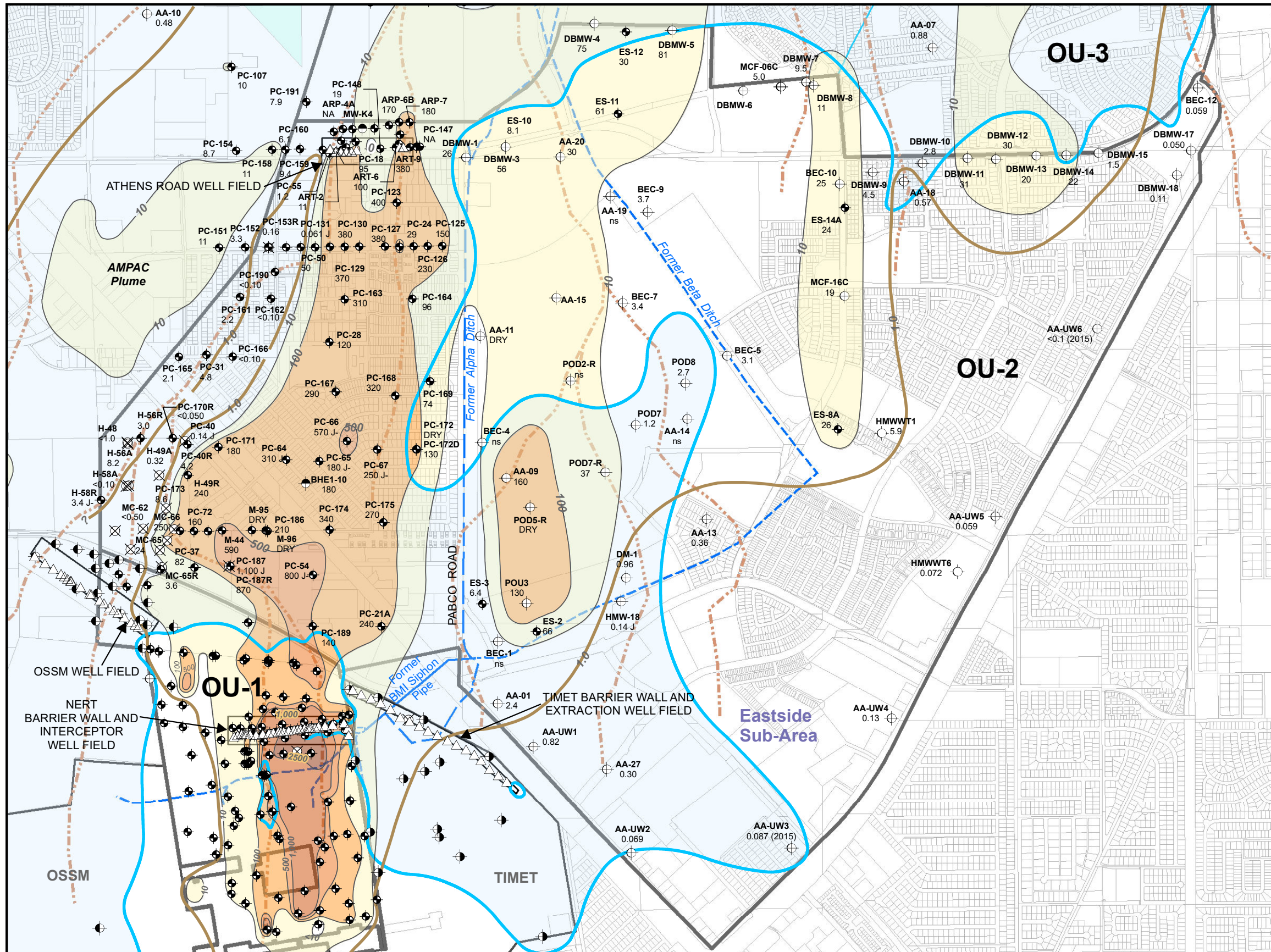




OU-2 Chlorate Groundwater Concentrations vs. Sample Depth
 Nevada Environmental Response Trust Site
 Henderson, Nevada

Figure

8-5a



LEGEND:

Shallow Monitoring Wells

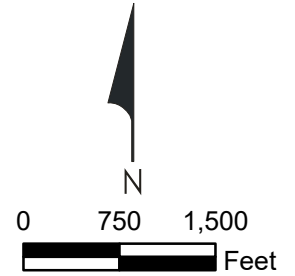
- ⊕ NERT
- ⊕ OSSM
- ⊕ TIMET
- ⊕ AMPAC
- ⊕ BRC
- ⊕ City of Henderson
- △ Shallow Extraction Well
- ⊗ Plugged and Abandoned (P&A)
- ▭ Saturated Alluvium
- - - Paleochannel

Chlorate Concentrations (mg/L)

<10
10-100
100-500
500-1,000
1,000-2,500
>2,500 mg/L

1.0 Chlorate GWSL (1.0 mg/L)

- Notes:**
1. P&A wells with data were sampled in fall 2017 before they were decommissioned.
 2. Chlorate concentrations are from 2015-2018, unless noted otherwise.
 3. ns = not sampled

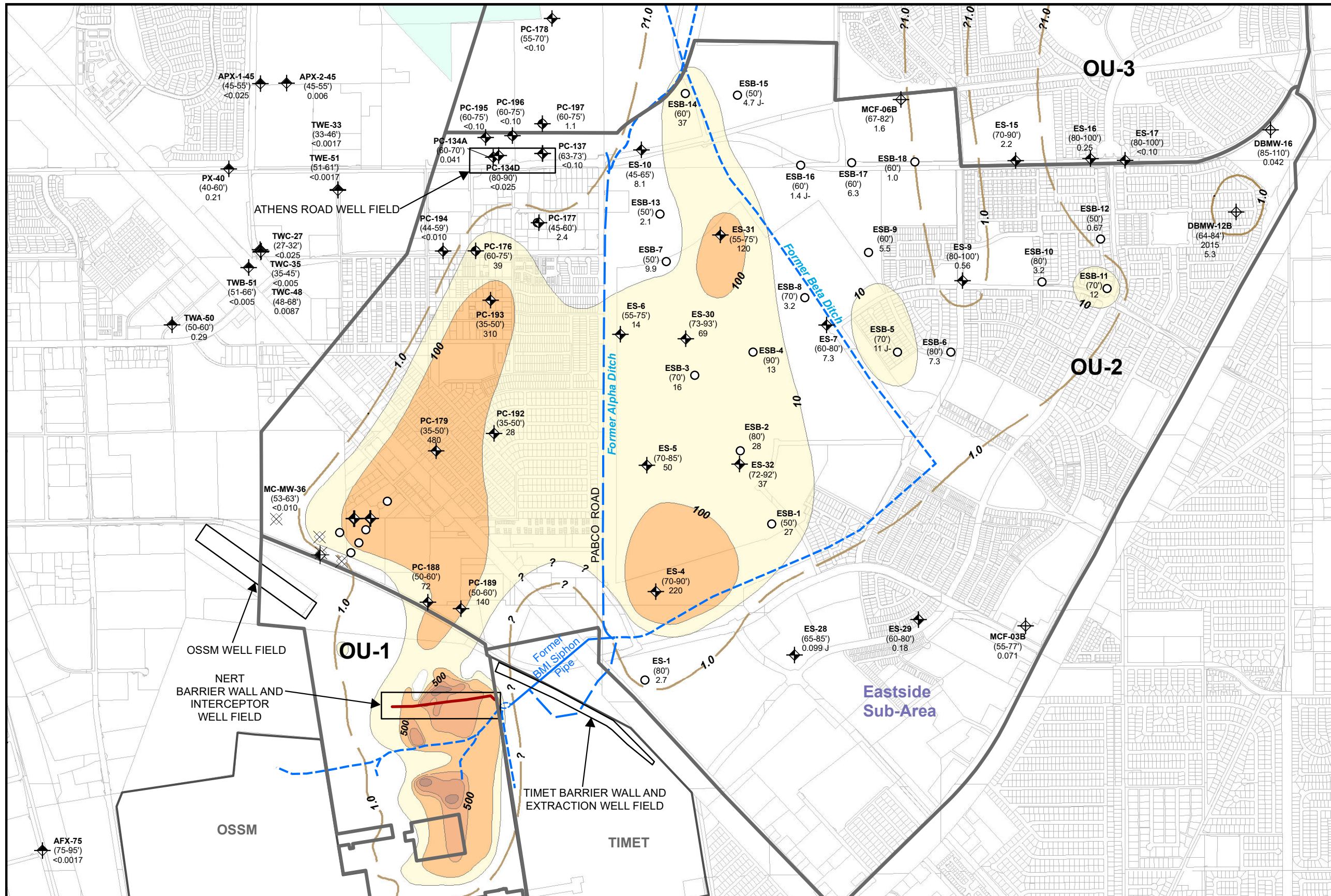


Chlorate Isoconcentration Map – OU-2 Shallow WBZ (0-40 ft bgs)
 Nevada Environmental Response Trust Site
 Henderson, Nevada



Figure
8-5b

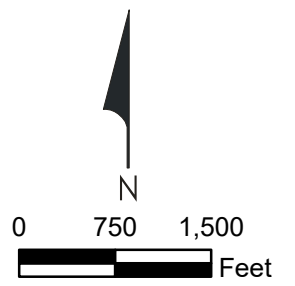
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- LEGEND:**
- Shallow WBZ Wells**
- ◆ NERT
 - ◆ OSSM
 - ◆ BRC
 - ◆ AMPAC
 - ⊗ Plugged and Abandoned (P&A)
 - Deep Soil Boring

- Chlorate Concentrations (ppm)**
- <10
 - 10-100
 - >20 (AMPAC Site)
 - 100-500
 - 500-1,000
 - 1,000-2,500
 - >2,500
- 1.0 — Chlorate GWSL (1.0 mg/L)

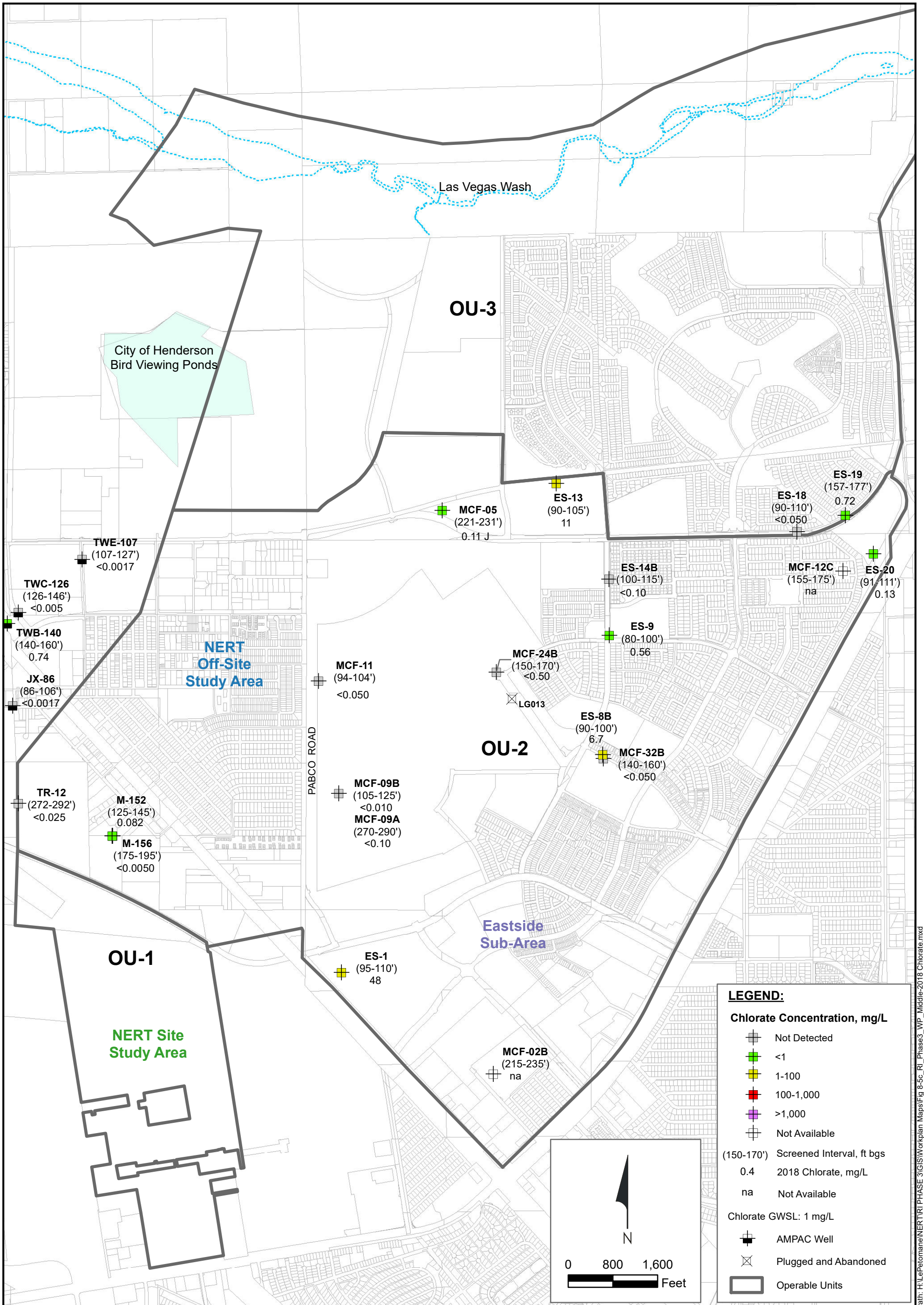
- Notes:**
1. P&A wells with data were sampled in fall 2017 before they were decommissioned.
 2. Chlorate concentrations are from 2017-2018, unless noted otherwise.
 3. Groundwater concentrations are mg/L.
 4. Soil concentrations in mg/kg may be higher than in groundwater sampled at the same location and depth.



Chlorate Isoconcentration Map – OU-2 Shallow WBZ (~40-90 ft bgs)
 Nevada Environmental Response Trust Site
 Henderson, Nevada

Figure
8-5c

Path: H:\LePetomane\NERT\RI_Evaluation\GIS\Chemical Maps\Fig 8-5b_OU2_NERT Offsite shallow WBZ 45-90ft Perchlorate-DET-ver3.mxd

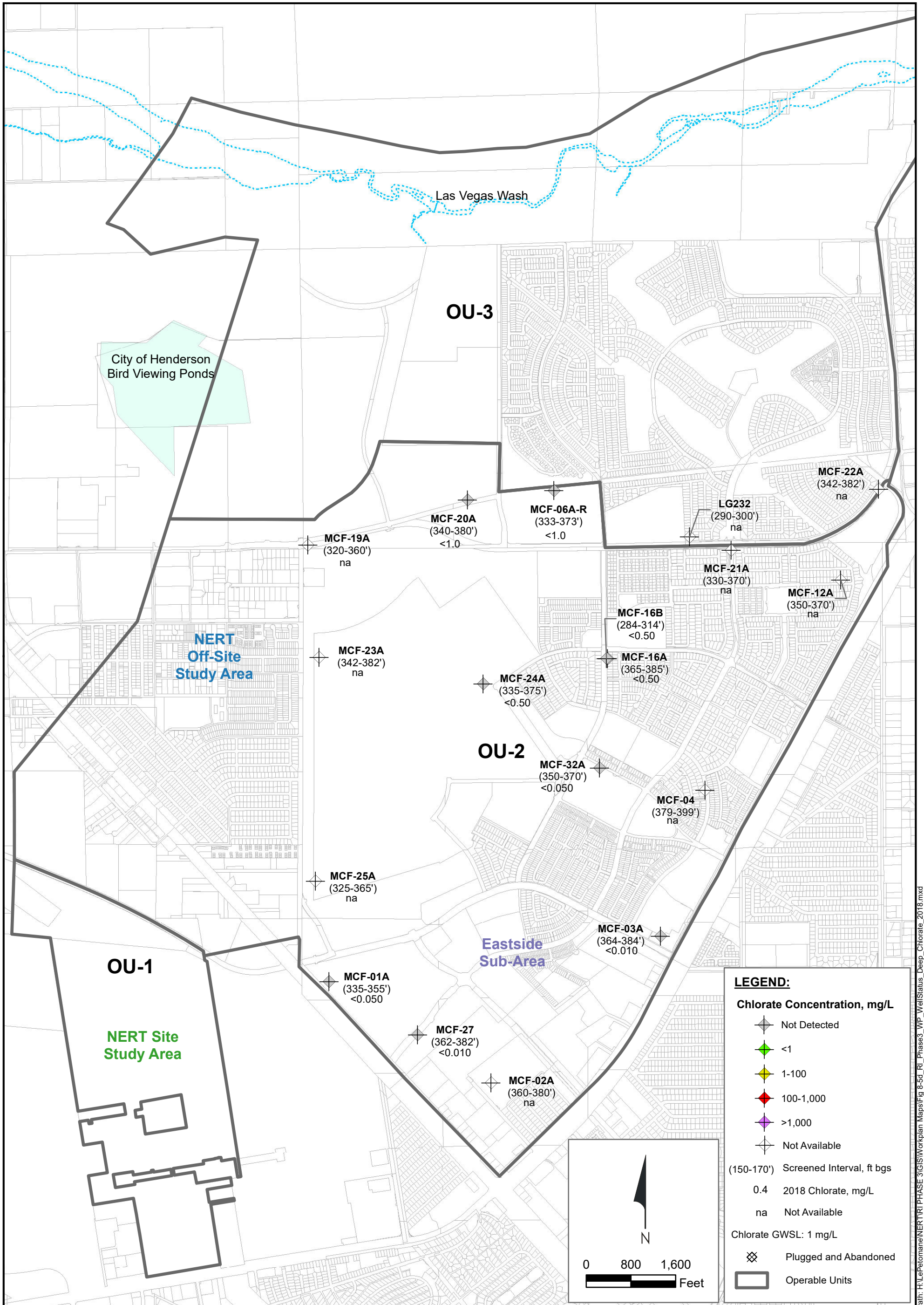


Path: H:\LePetomane\NERT\PHASE 3\GIS\Workplan Maps\Fig 8-5c_RI_Phase3_WP_Middle 2018 Chlorate.mxd



Chlorate - OU-2 Middle WBZ (90-300 ft bgs)
 Nevada Environmental Response Trust Site
 Henderson, Nevada

Figure
8-5d



Path: H:\LePetomane\NERT\PHASE 3\GIS\Workplan Maps\Fig 8-5d_RI_Phase3_WP_WellStatus_Deep_Chlorate_2018.mxd



Chlorate - OU-2 Deep WBZ (>300 ft bgs)
 Nevada Environmental Response Trust Site
 Henderson, Nevada

Figure
8-5e

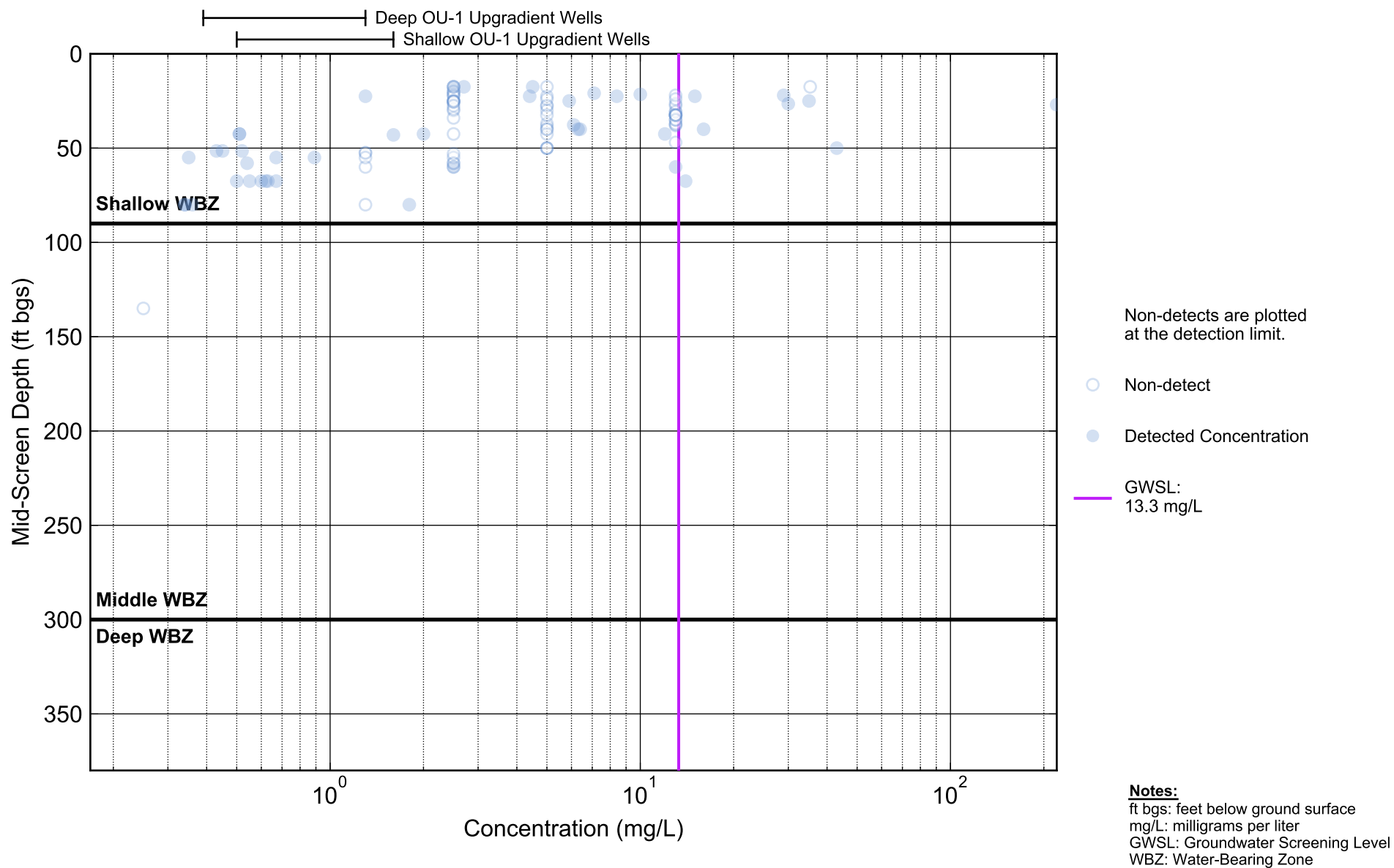
Drafter: RS

Date: 5/4/2020

Contract Number: 169002 9369

Approved by:

Revised:



OU-2 Bromide Groundwater Concentrations vs. Sample Depth
 Nevada Environmental Response Trust Site
 Henderson, Nevada

Figure

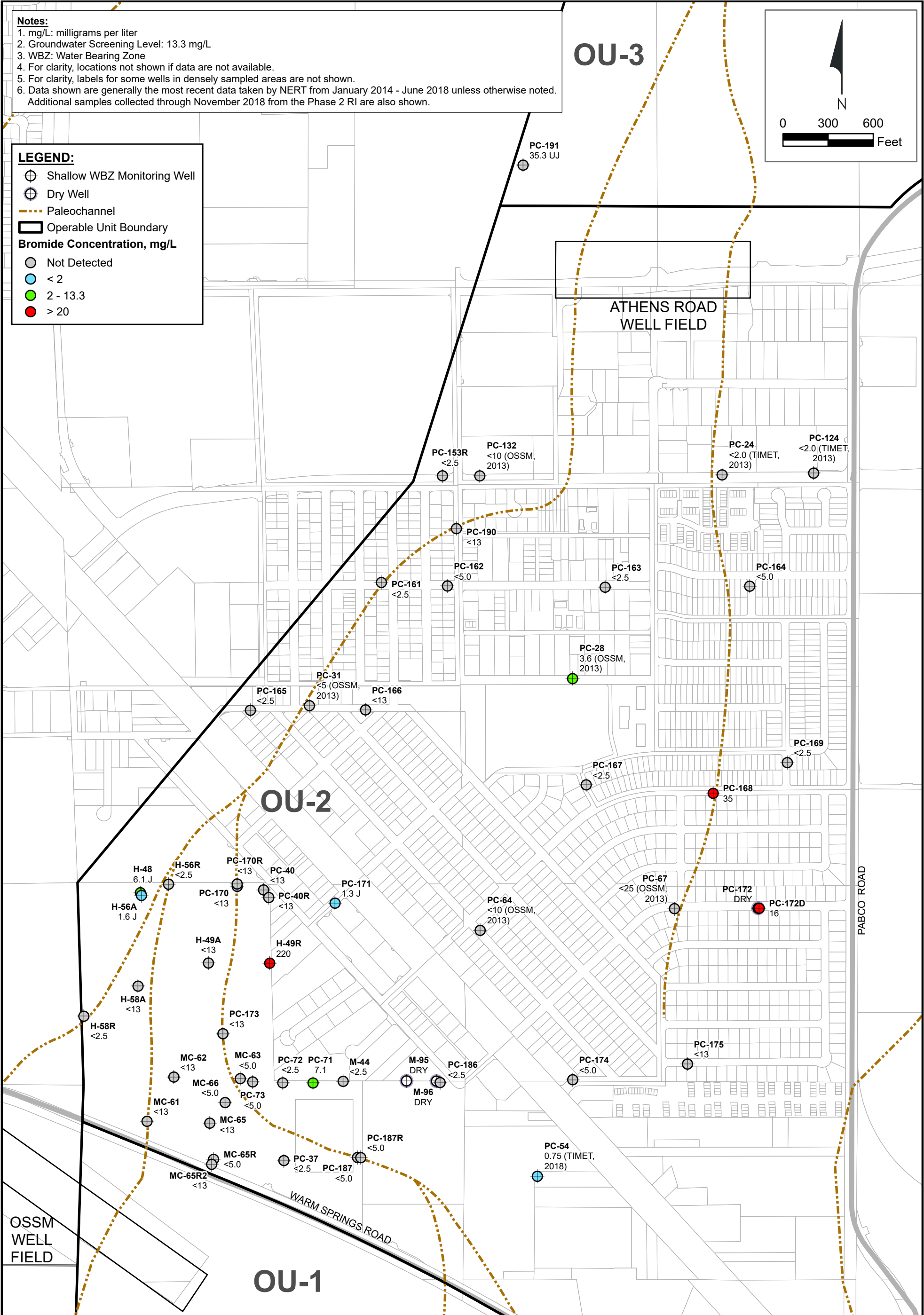
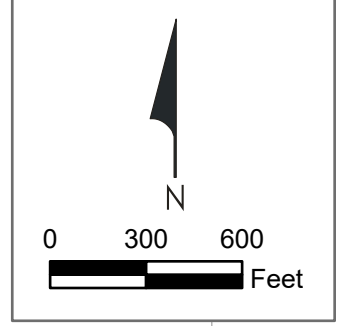
8-6a

Notes:

1. mg/L: milligrams per liter
2. Groundwater Screening Level: 13.3 mg/L
3. WBZ: Water Bearing Zone
4. For clarity, locations not shown if data are not available.
5. For clarity, labels for some wells in densely sampled areas are not shown.
6. Data shown are generally the most recent data taken by NERT from January 2014 - June 2018 unless otherwise noted. Additional samples collected through November 2018 from the Phase 2 RI are also shown.

LEGEND:

- ⊕ Shallow WBZ Monitoring Well
 - ⊖ Dry Well
 - Paleochannel
 - ▭ Operable Unit Boundary
- Bromide Concentration, mg/L**
- Not Detected
 - < 2
 - 2 - 13.3
 - > 20



Bromide - Shallow WBZ (0-40 ft bgs)
OU-2 NERT Off-Site Study Area
 Nevada Environmental Response Trust Site, Henderson, Nevada

Figure
8-6b

Path: H:\Petomane\NERT\OU-1_OU-2 RI Report\Working_Folder\Groundwater Maps\2022_OU2\figures_1.aprx

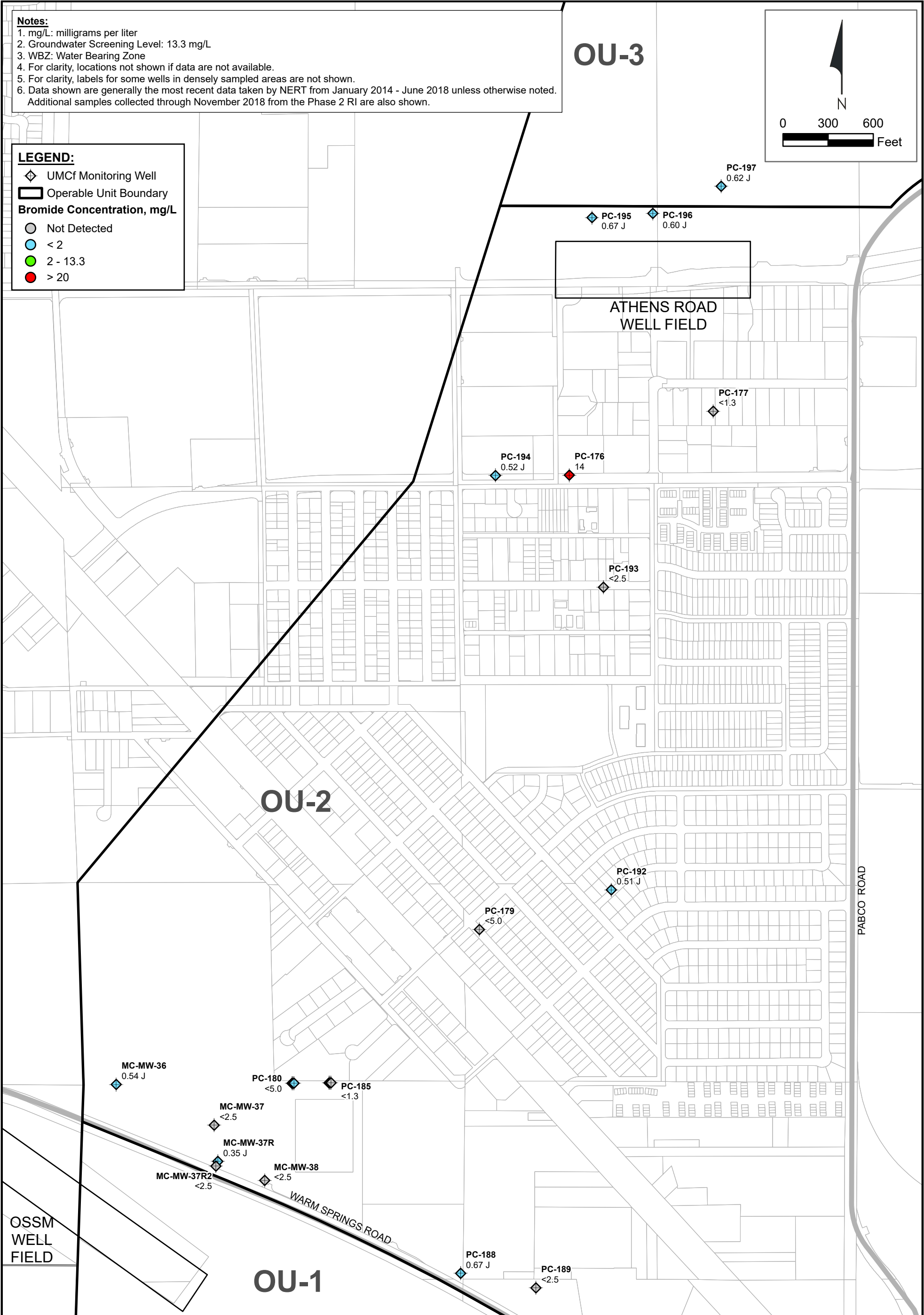
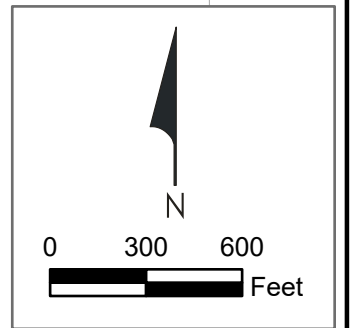
Notes:

- 1. mg/L: milligrams per liter
- 2. Groundwater Screening Level: 13.3 mg/L
- 3. WBZ: Water Bearing Zone
- 4. For clarity, locations not shown if data are not available.
- 5. For clarity, labels for some wells in densely sampled areas are not shown.
- 6. Data shown are generally the most recent data taken by NERT from January 2014 - June 2018 unless otherwise noted. Additional samples collected through November 2018 from the Phase 2 RI are also shown.

LEGEND:

- ◆ UMCf Monitoring Well
 - ▭ Operable Unit Boundary
- Bromide Concentration, mg/L**
- Not Detected
 - < 2
 - 2 - 13.3
 - > 20

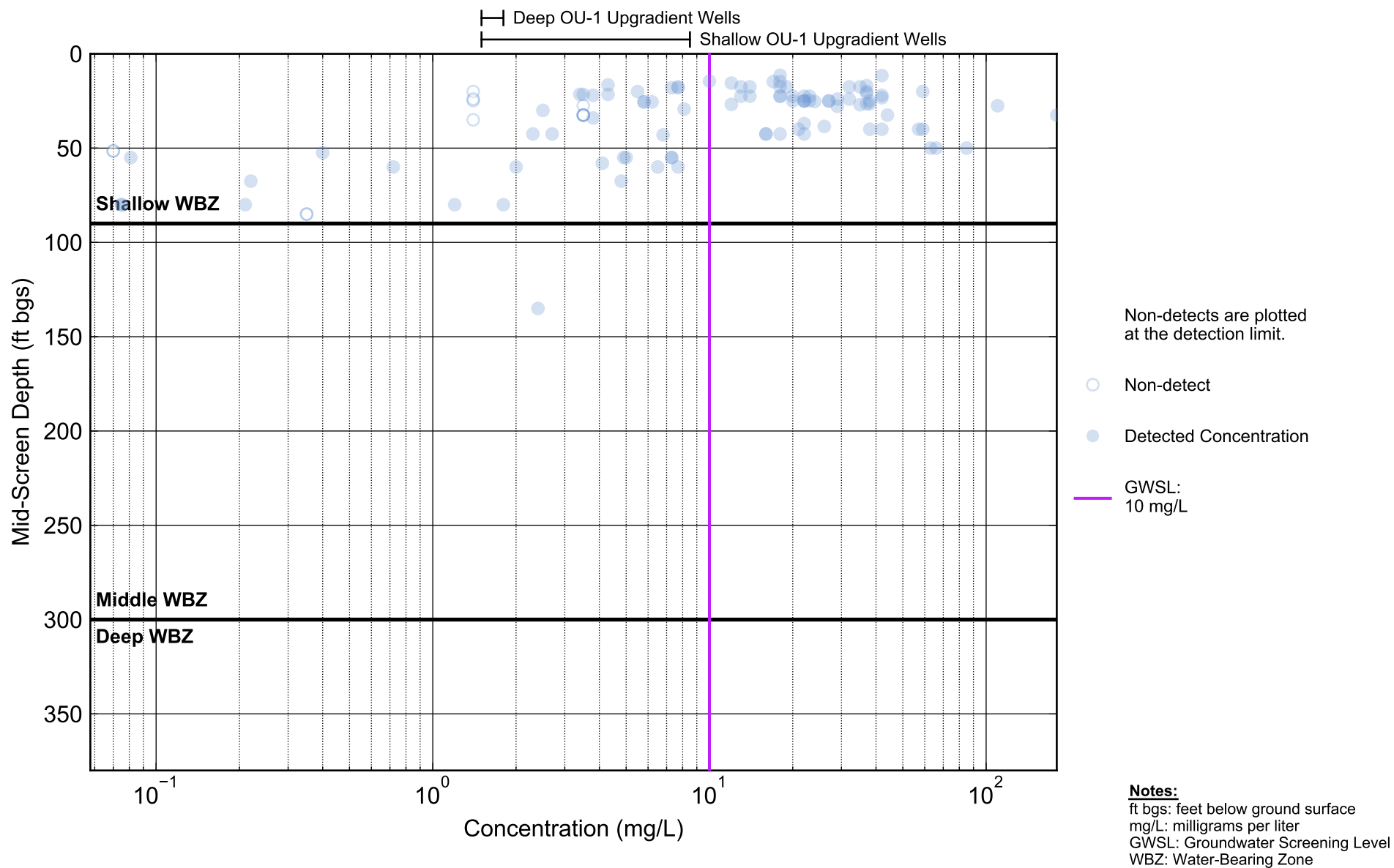
OU-3



Bromide - Shallow WBZ (~40-90 ft bgs)
OU-2 NERT Off-Site Study Area
 Nevada Environmental Response Trust Site, Henderson, Nevada

Figure
8-6c

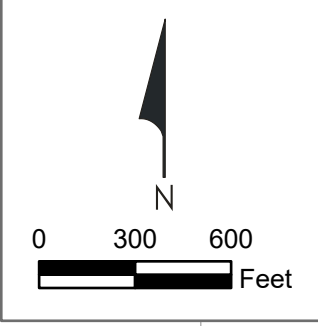
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OU-2 Nitrate Nitrite as N Groundwater Concentrations vs. Sample Depth
 Nevada Environmental Response Trust Site
 Henderson, Nevada

Figure
8-7a

Notes:
 1. mg/L: milligrams per liter
 2. Groundwater Screening Level: 10 mg/L
 3. WBZ: Water Bearing Zone
 4. For clarity, locations not shown if data are not available.
 5. For clarity, labels for some wells in densely sampled areas are not shown.
 6. Data shown are generally the most recent data taken by NERT from January 2014 - June 2018 unless otherwise noted.
 Additional samples collected through November 2018 from the Phase 2 RI are also shown.

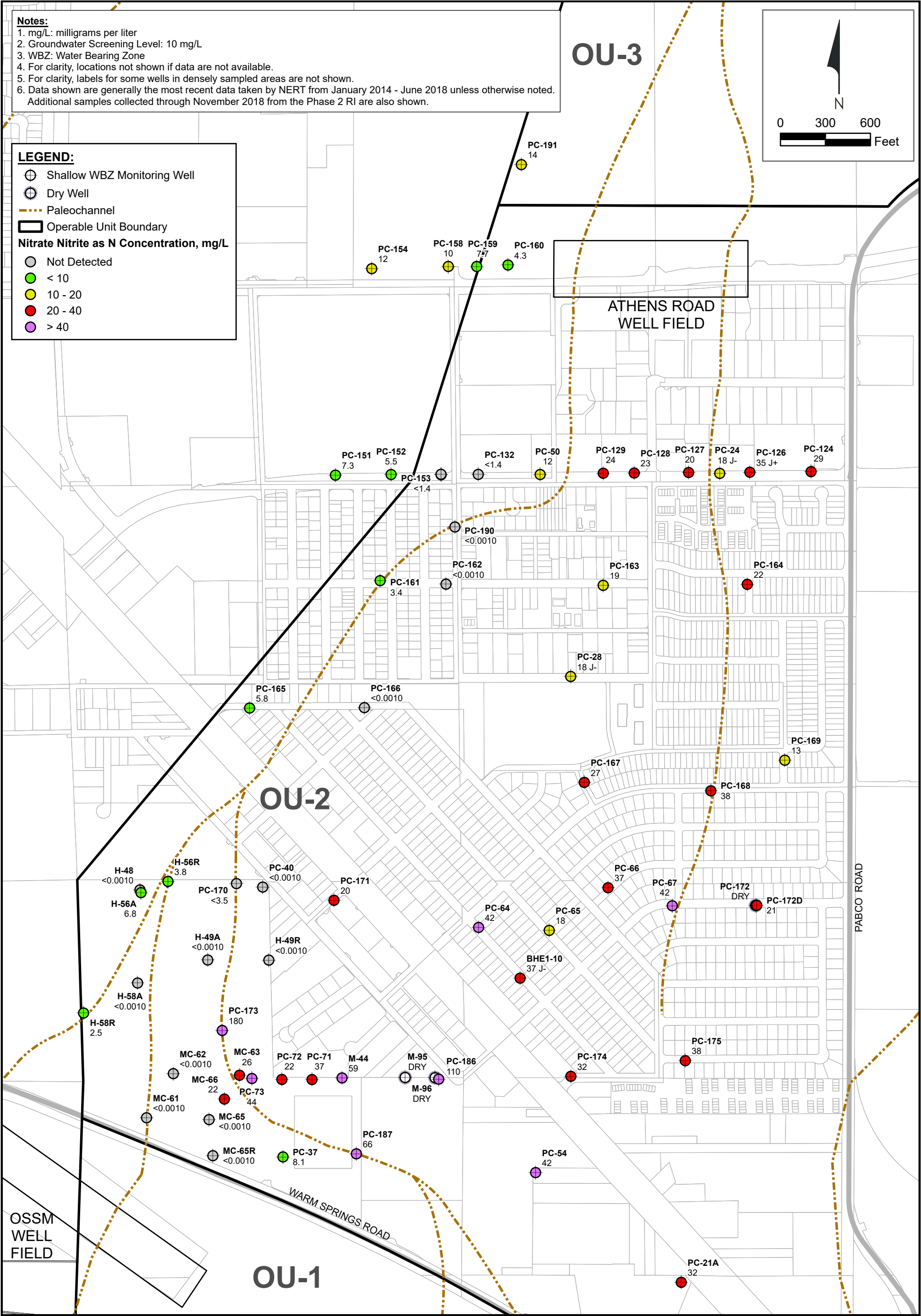


LEGEND:

- ⊕ Shallow WBZ Monitoring Well
- ⊖ Dry Well
- Paleochannel
- ▭ Operable Unit Boundary

Nitrate Nitrite as N Concentration, mg/L

- Not Detected
- < 10
- 10 - 20
- 20 - 40
- > 40



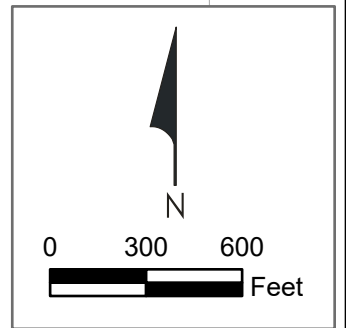
Nitrate Nitrite as N - Shallow WBZ (0-40 ft bgs)
OU-2 NERT Off-Site Study Area
 Nevada Environmental Response Trust Site, Henderson, Nevada

Figure
8-7b

Path: H:\LePetomane\NERT\OU-1_OU-2 RI Report\Working_Folder\Groundwater Maps\2022_OU2\figures_1.aprx

Notes:
 1. mg/L: milligrams per liter
 2. Groundwater Screening Level: 10 mg/L
 3. WBZ: Water Bearing Zone
 4. For clarity, locations not shown if data are not available.
 5. For clarity, labels for some wells in densely sampled areas are not shown.
 6. Data shown are generally the most recent data taken by NERT from January 2014 - June 2018 unless otherwise noted.
 Additional samples collected through November 2018 from the Phase 2 RI are also shown.

OU-3

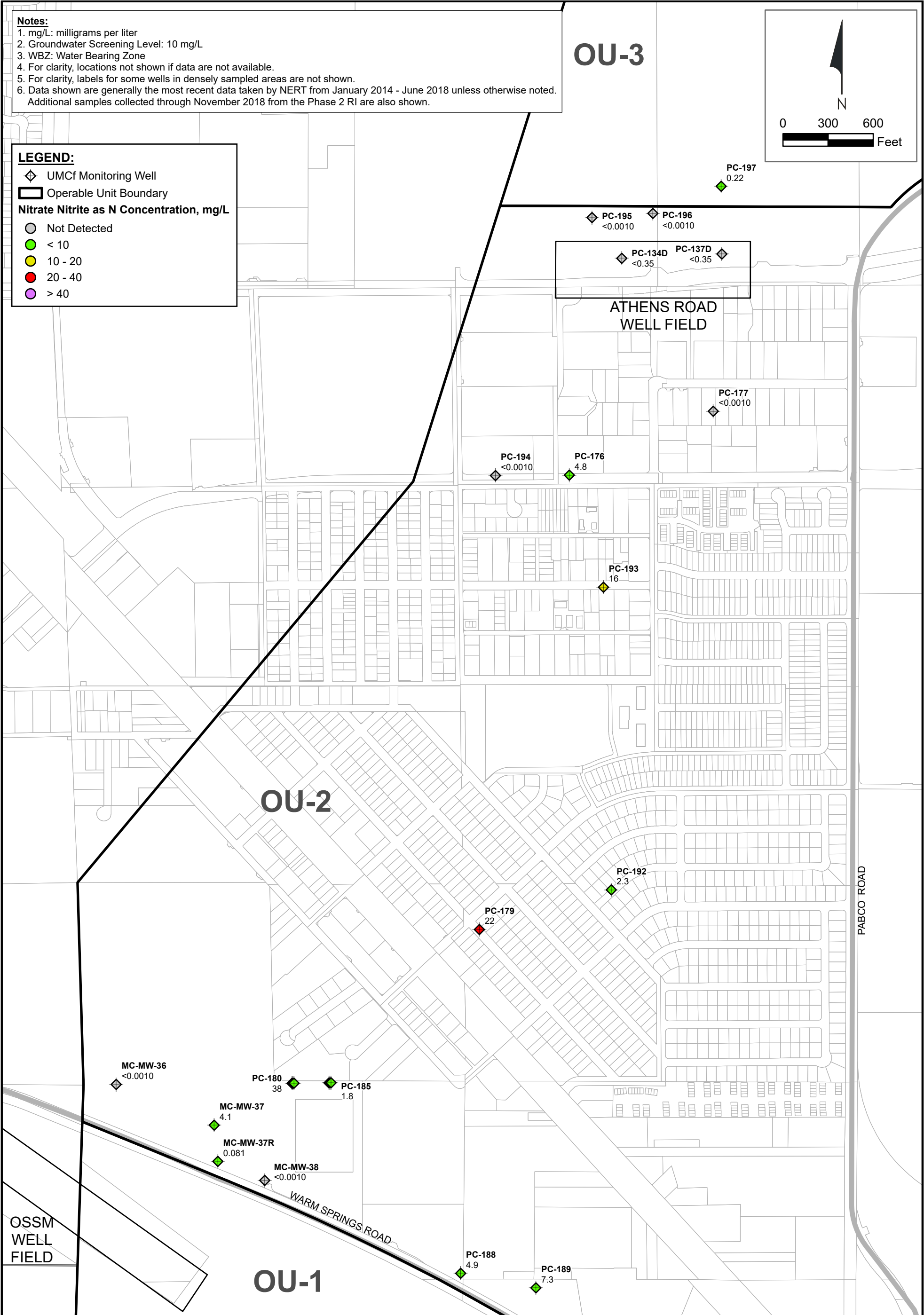


LEGEND:

- ◆ UMCf Monitoring Well
- ▭ Operable Unit Boundary

Nitrate Nitrite as N Concentration, mg/L

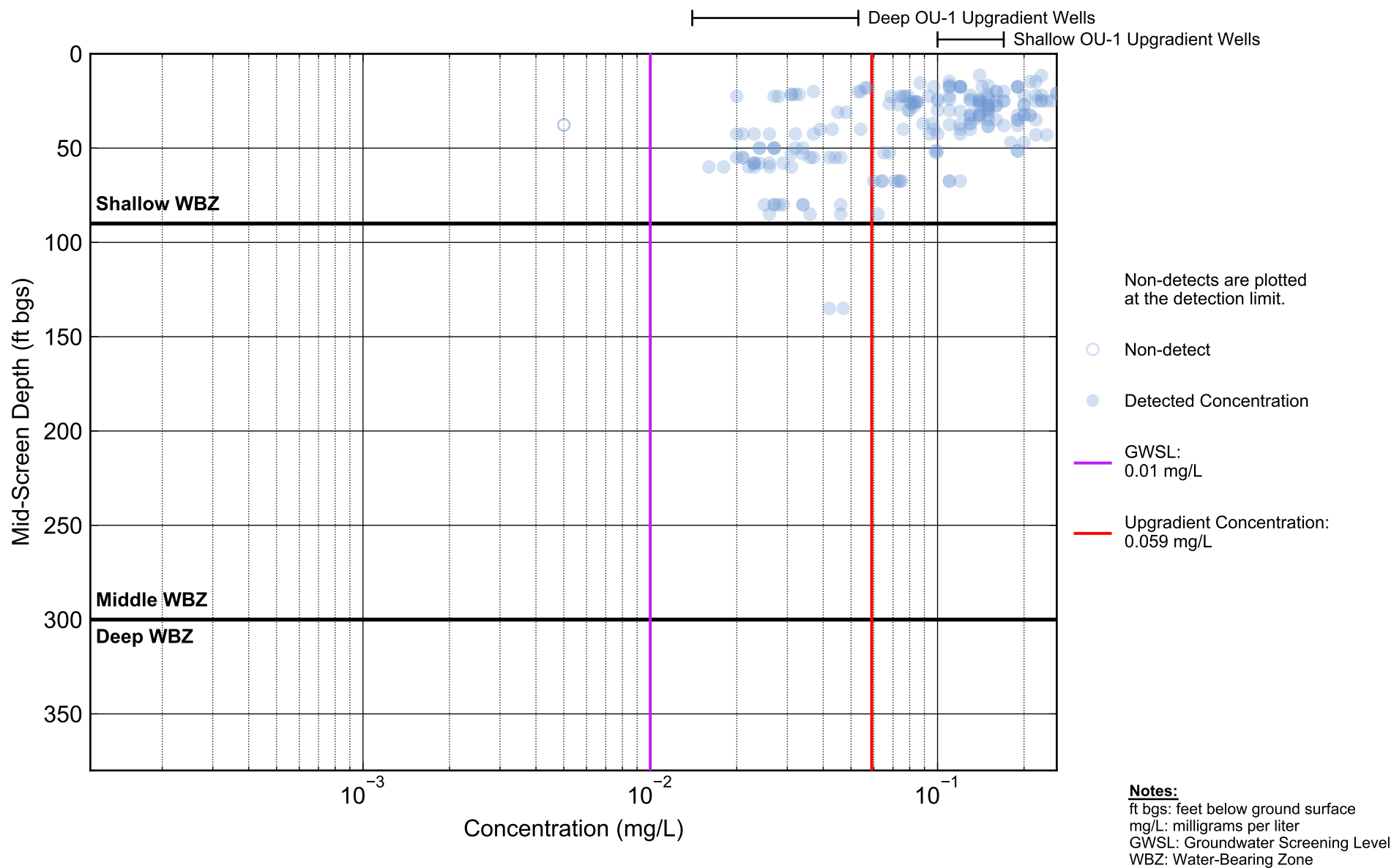
- Not Detected
- < 10
- 10 - 20
- 20 - 40
- > 40



Nitrate Nitrite as N - Shallow WBZ (~40-90 ft bgs)
OU-2 NERT Off-Site Study Area
 Nevada Environmental Response Trust Site, Henderson, Nevada

Figure
8-7c

Path: H:\Petomane\NERT\OU-1_OU-2 RI Report\Working_Folder\Groundwater Maps\2022_OU2\figures_1.aprx



OU-2 Arsenic Groundwater Concentrations vs. Sample Depth
 Nevada Environmental Response Trust Site
 Henderson, Nevada

Figure

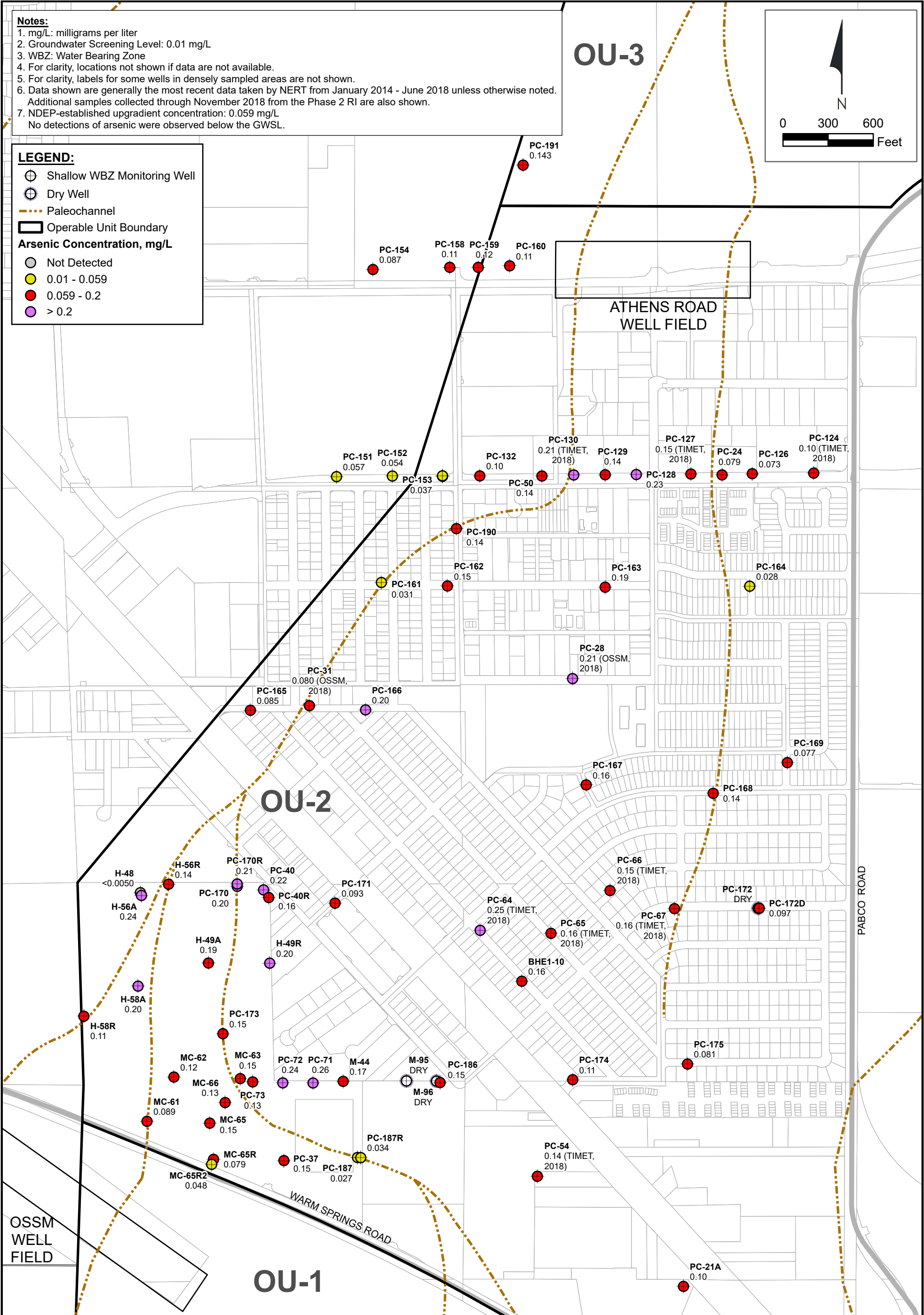
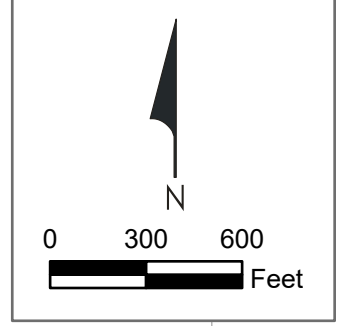
8-8a

Notes:

1. mg/L: milligrams per liter
2. Groundwater Screening Level: 0.01 mg/L
3. WBZ: Water Bearing Zone
4. For clarity, locations not shown if data are not available.
5. For clarity, labels for some wells in densely sampled areas are not shown.
6. Data shown are generally the most recent data taken by NERT from January 2014 - June 2018 unless otherwise noted. Additional samples collected through November 2018 from the Phase 2 RI are also shown.
7. NDEP-established upgradient concentration: 0.059 mg/L
No detections of arsenic were observed below the GWSL.

LEGEND:

- ⊕ Shallow WBZ Monitoring Well
 - ⊖ Dry Well
 - Paleochannel
 - ▭ Operable Unit Boundary
- Arsenic Concentration, mg/L**
- Not Detected
 - 0.01 - 0.059
 - 0.059 - 0.2
 - > 0.2



Arsenic - Shallow WBZ (0-40 ft bgs)
OU-2 NERT Off-Site Study Area
 Nevada Environmental Response Trust Site, Henderson, Nevada







Figure
8-8b

Path: H:\Petomane\NERT\OU-1_OU-2 RI Report\Working_Folder\Groundwater Maps\2022_OU2\figures_1.aprx

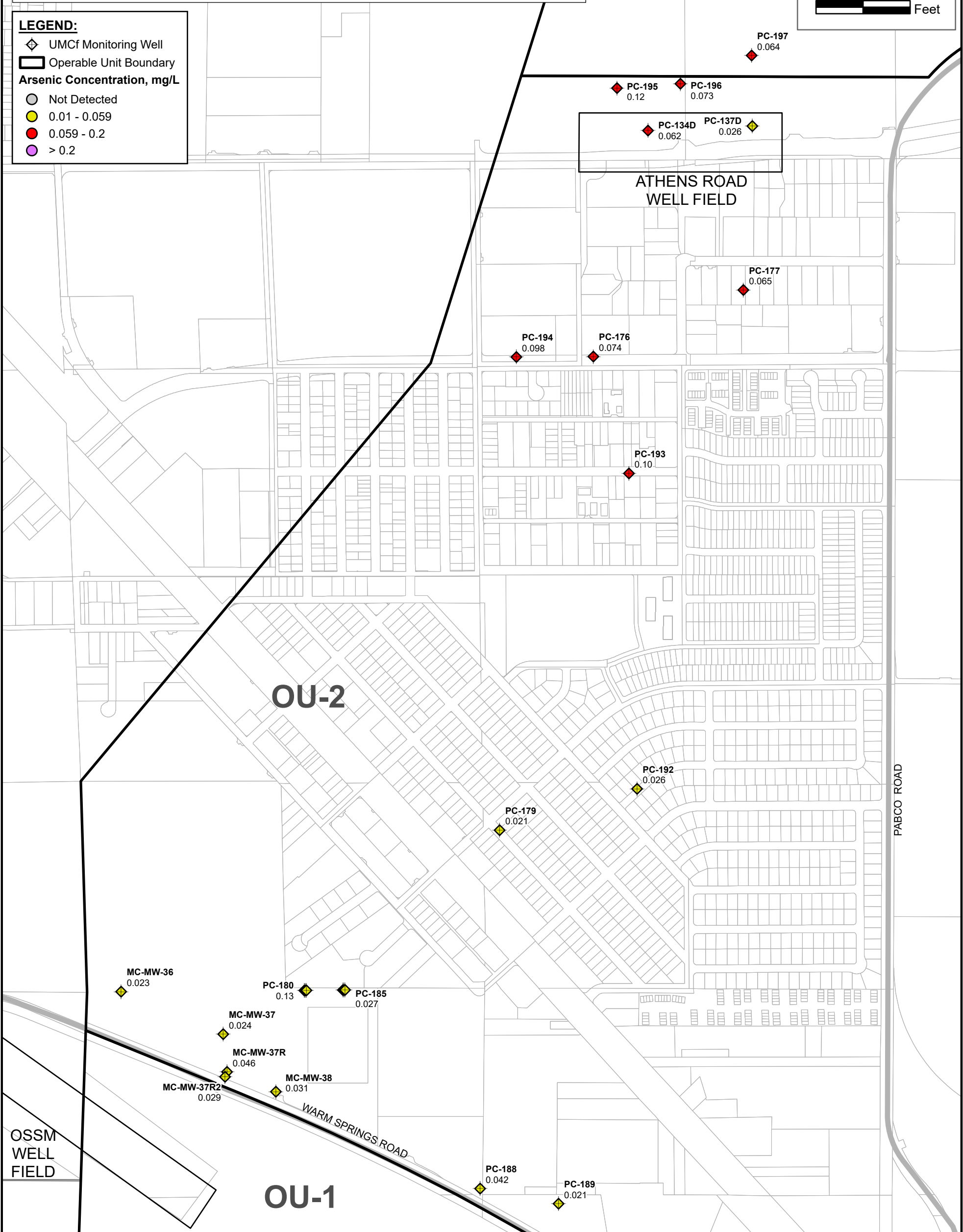
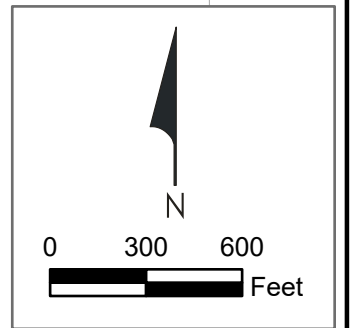
Notes:

- 1. mg/L: milligrams per liter
- 2. Groundwater Screening Level: 0.01 mg/L
- 3. WBZ: Water Bearing Zone
- 4. For clarity, locations not shown if data are not available.
- 5. For clarity, labels for some wells in densely sampled areas are not shown.
- 6. Data shown are generally the most recent data taken by NERT from January 2014 - June 2018 unless otherwise noted. Additional samples collected through November 2018 from the Phase 2 RI are also shown.
- 7. NDEP-established upgradient concentration: 0.059 mg/L
No detections of arsenic were observed below the GWSL.

LEGEND:

-  UMCf Monitoring Well
 -  Operable Unit Boundary
- Arsenic Concentration, mg/L**
-  Not Detected
 -  0.01 - 0.059
 -  0.059 - 0.2
 -  > 0.2

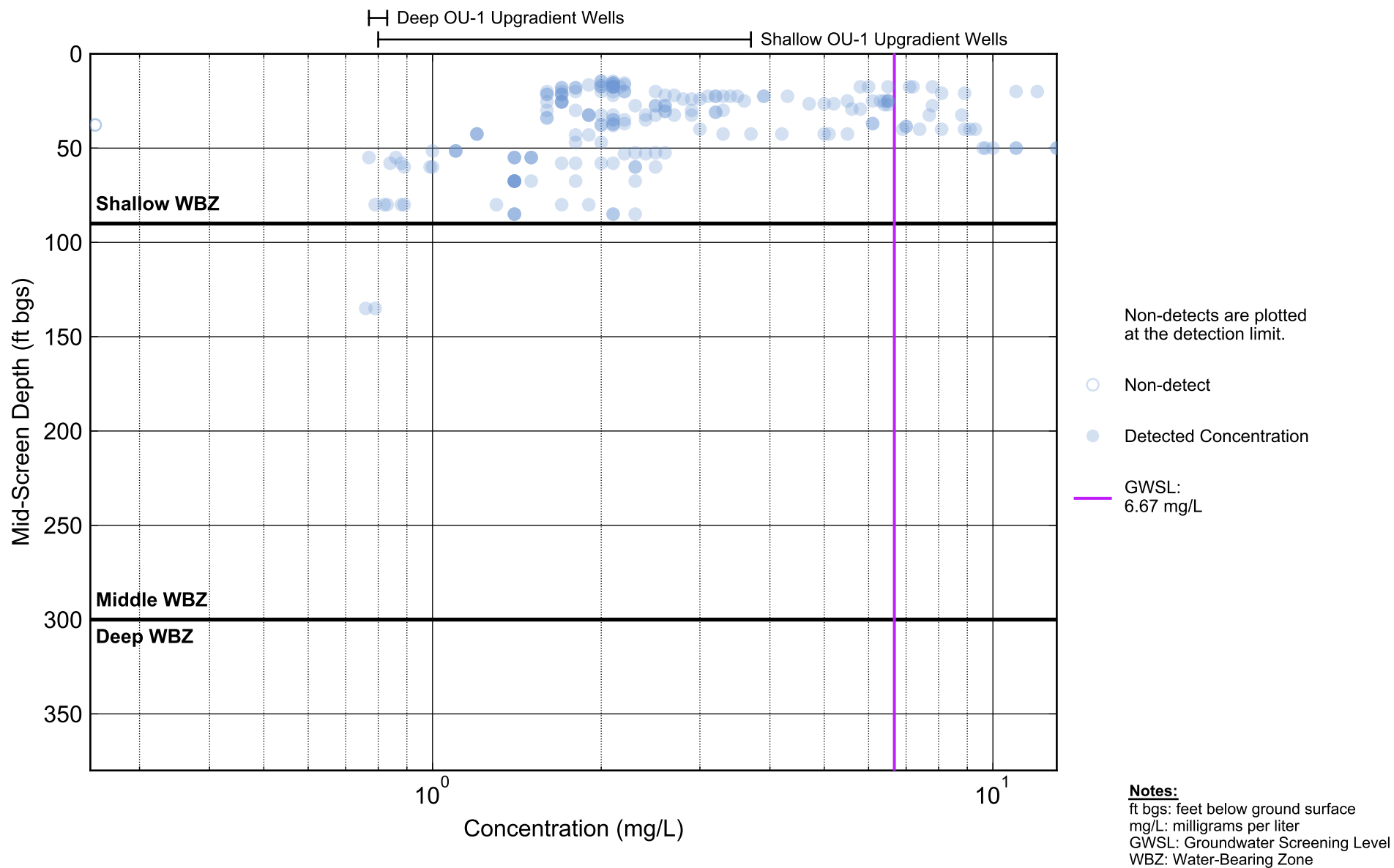
OU-3



Arsenic - Shallow WBZ (~40-90 ft bgs)
OU-2 NERT Off-Site Study Area
 Nevada Environmental Response Trust Site, Henderson, Nevada

Figure
8-8c

Path: H:\Petomane\NERT\OU-1_OU-2 RI Report\Working_Folder\Groundwater Maps\2022_OU2figures_1.aprx

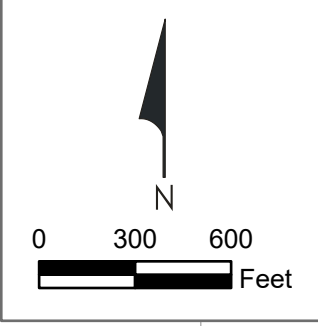


OU-2 Boron Groundwater Concentrations vs. Sample Depth
 Nevada Environmental Response Trust Site
 Henderson, Nevada

Figure

8-9a

Notes:
 1. mg/L: milligrams per liter
 2. Groundwater Screening Level: 6.67 mg/L
 3. WBZ: Water Bearing Zone
 4. For clarity, locations not shown if data are not available.
 5. For clarity, labels for some wells in densely sampled areas are not shown.
 6. Data shown are generally the most recent data taken by NERT from January 2014 - June 2018 unless otherwise noted. Additional samples collected through November 2018 from the Phase 2 RI are also shown.

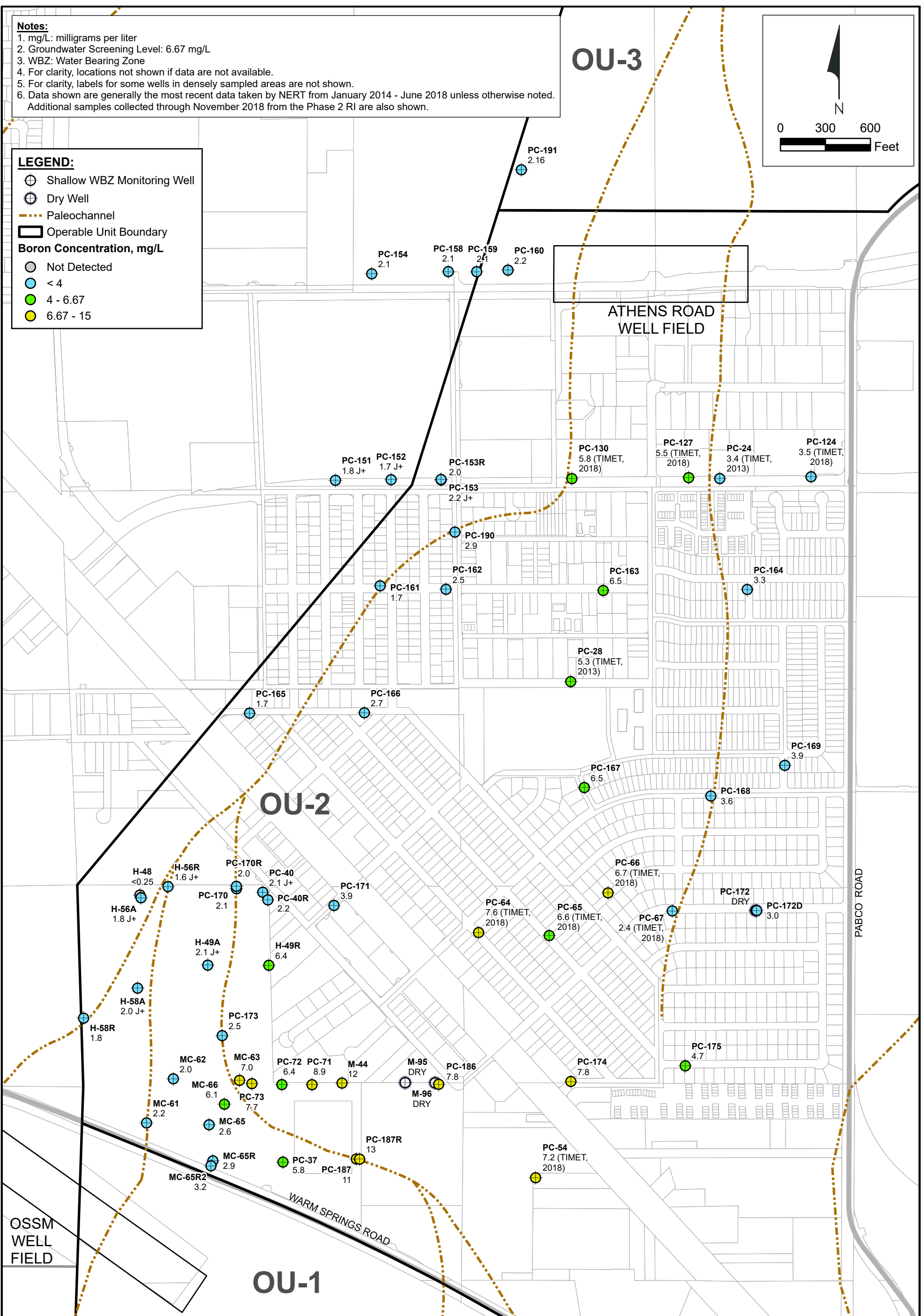


LEGEND:

- ⊕ Shallow WBZ Monitoring Well
- ⊖ Dry Well
- - - Paleochannel
- ▭ Operable Unit Boundary

Boron Concentration, mg/L

- Not Detected
- < 4
- 4 - 6.67
- 6.67 - 15

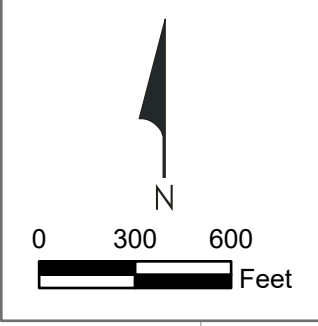


Boron - Shallow WBZ (0-40 ft bgs)
OU-2 NERT Off-Site Study Area
 Nevada Environmental Response Trust Site, Henderson, Nevada

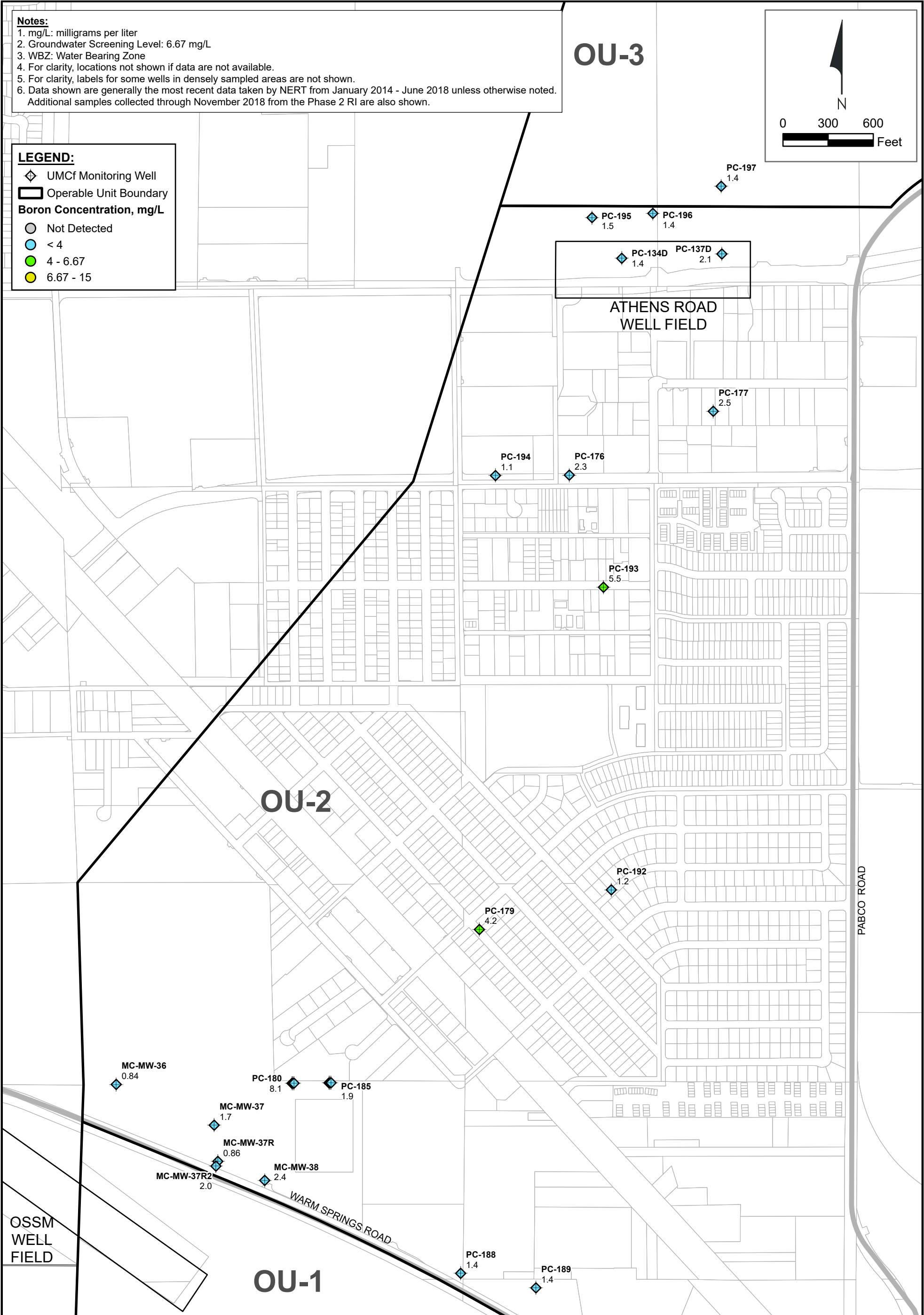
Figure
8-9b

Path: H:\LePetomane\NERT\OU-1_OU-2 RI Report\Working_Folder\Groundwater Maps\2022_OU2\figures_1.aprx

Notes:
 1. mg/L: milligrams per liter
 2. Groundwater Screening Level: 6.67 mg/L
 3. WBZ: Water Bearing Zone
 4. For clarity, locations not shown if data are not available.
 5. For clarity, labels for some wells in densely sampled areas are not shown.
 6. Data shown are generally the most recent data taken by NERT from January 2014 - June 2018 unless otherwise noted.
 Additional samples collected through November 2018 from the Phase 2 RI are also shown.



LEGEND:
 ◆ UMCf Monitoring Well
 □ Operable Unit Boundary
Boron Concentration, mg/L
 ○ Not Detected
 ● < 4
 ● 4 - 6.67
 ● 6.67 - 15

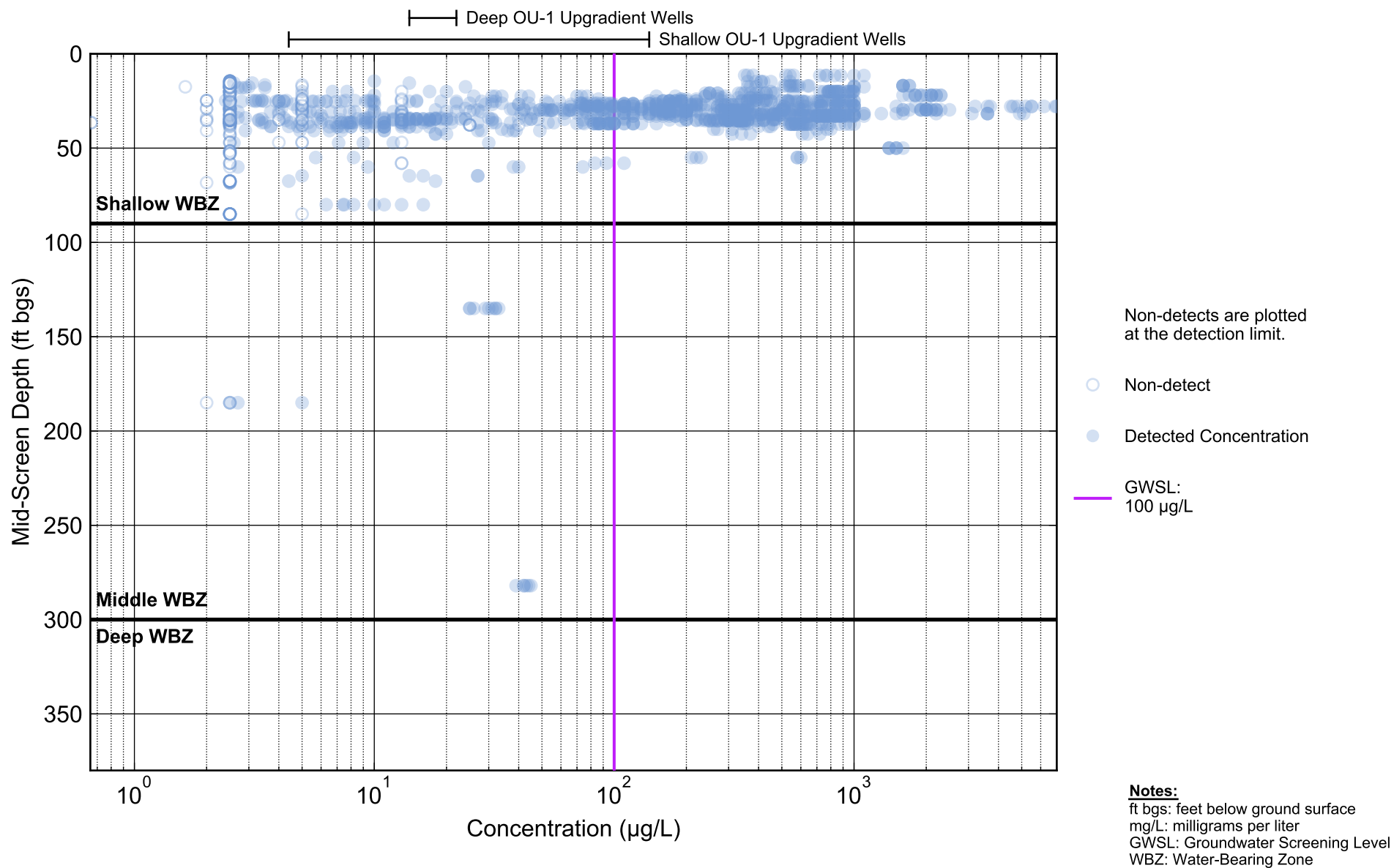


Boron - Shallow WBZ (~40-90 ft bgs)
OU-2 NERT Off-Site Study Area
 Nevada Environmental Response Trust Site, Henderson, Nevada

Figure
8-9c

Drafter: JC Date: 2023-01-11 Contract Number: 169002 9369 Approved by: Revised:

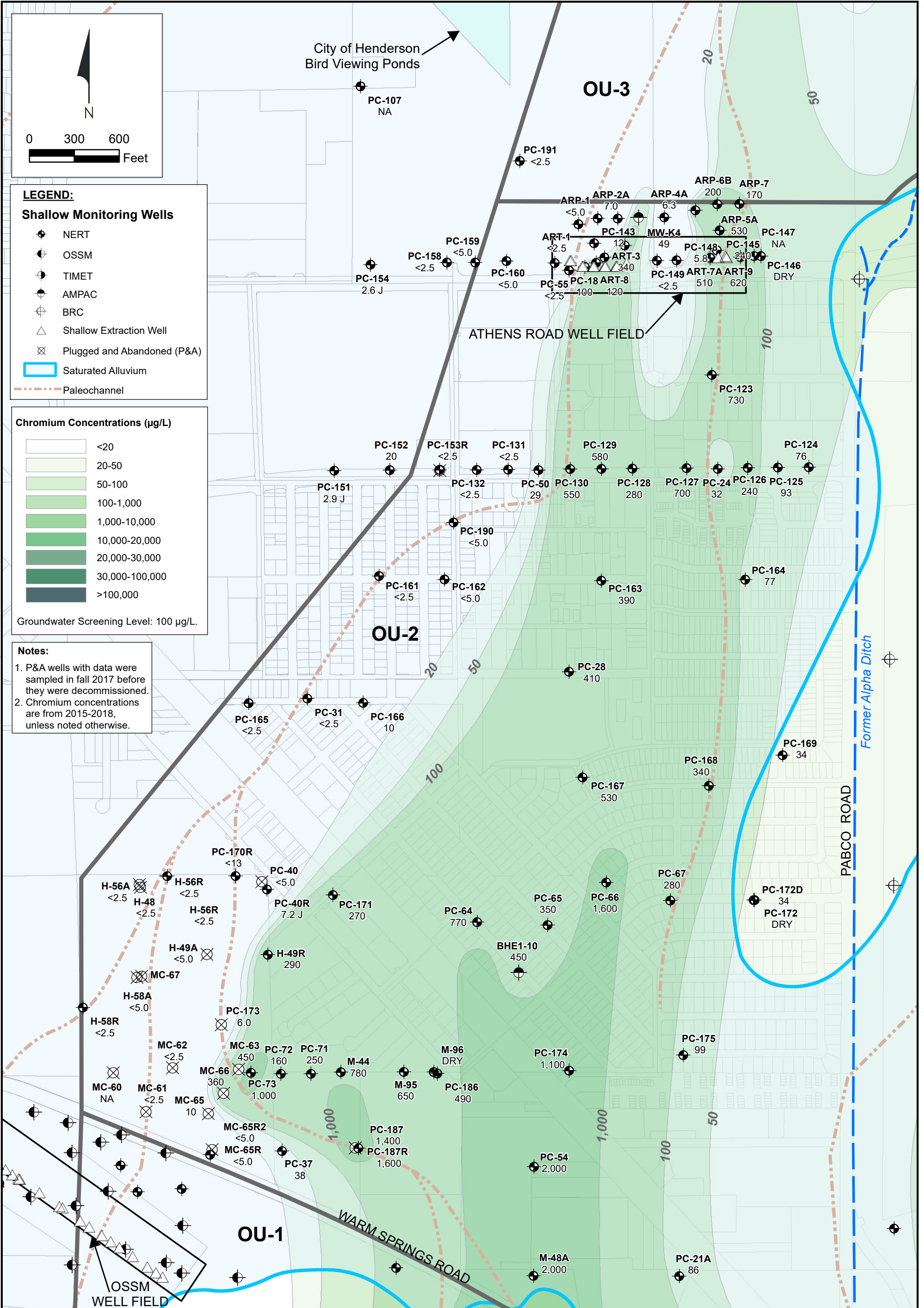
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OU-2 Chromium (Total) Groundwater Concentrations vs. Sample Depth
 Nevada Environmental Response Trust Site
 Henderson, Nevada

Figure

8-10a

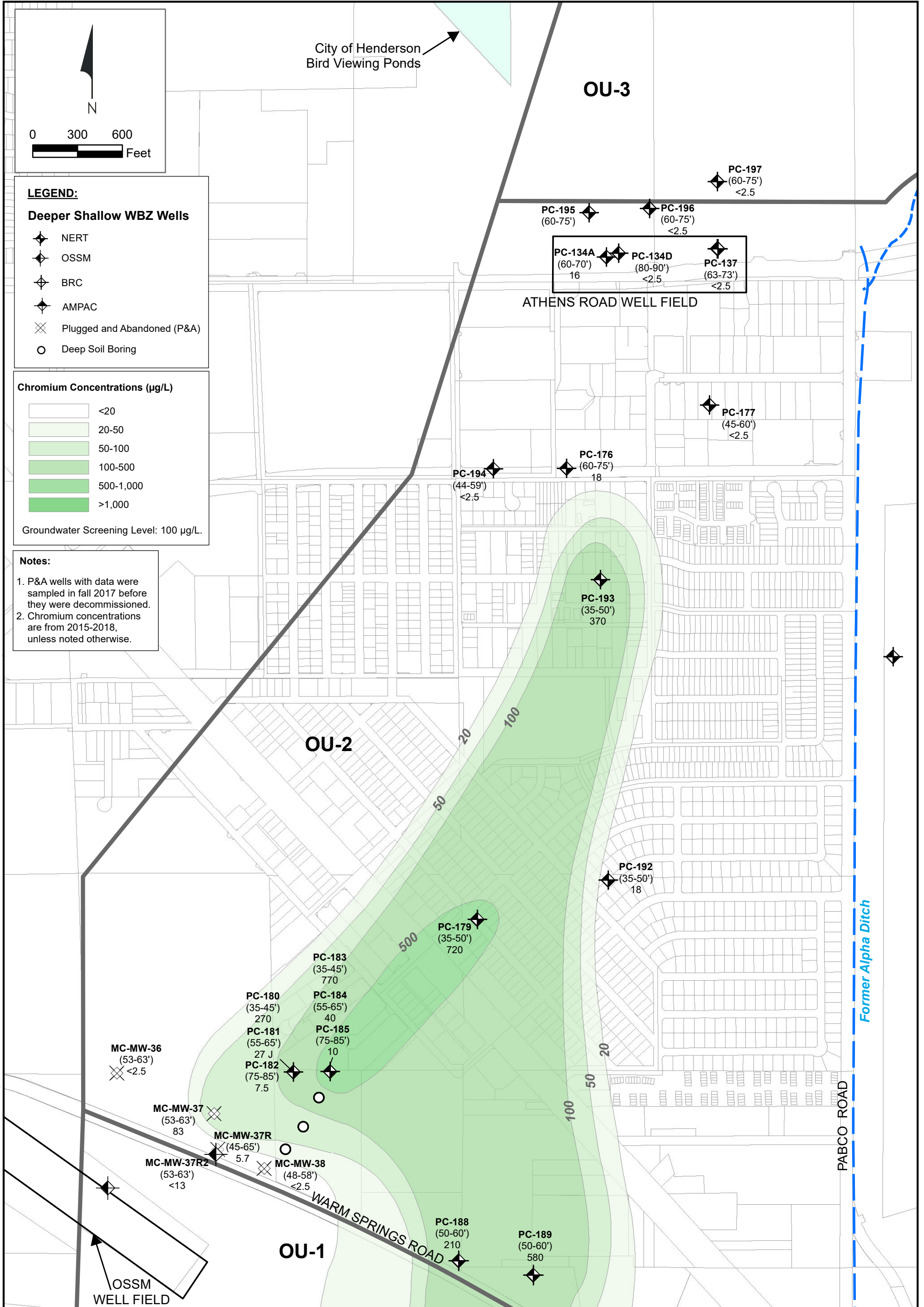


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Chromium Isoconcentration Map, Shallow WBZ (0-40 ft bgs) - OU-2, NERT Off-Site Study Area
 Nevada Environmental Response Trust Site; Henderson, Nevada

Figure
8-10b

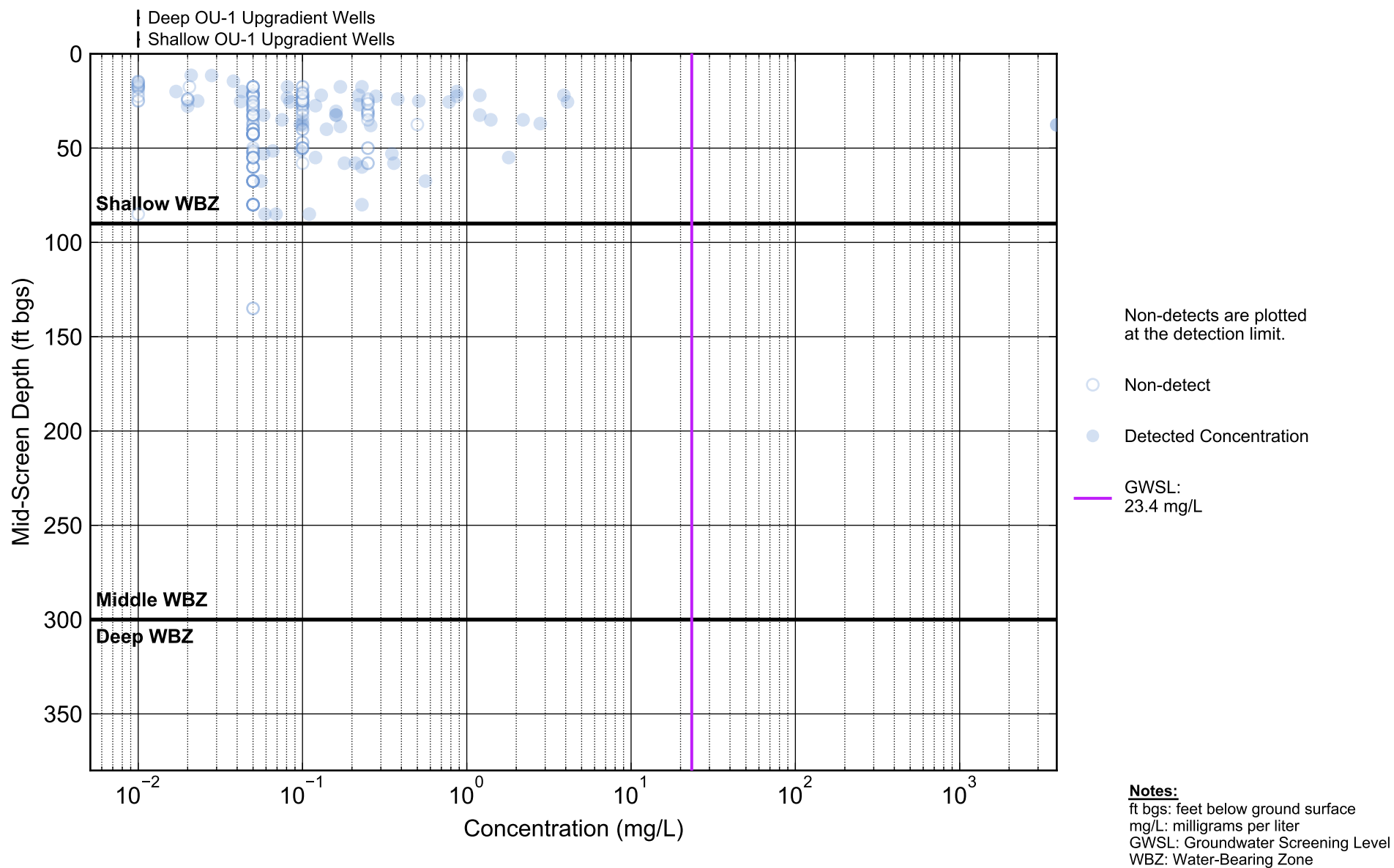


Path: H:\LePeioman\NERT\RI_Evaluation\GIS\Chemical Maps\Fig 8-10b_OU2_NERT Offsite shallow WBZ 45-90ft Chromium-600.mxd



Chromium Isoconcentration Map, Shallow WBZ (~40-90 ft bgs) - OU-2, NERT Off-Site Study Area
 Nevada Environmental Response Trust Site; Henderson, Nevada

Figure
8-10c

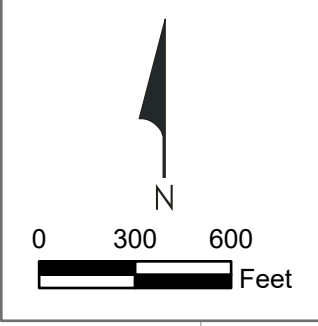


OU-2 Iron Groundwater Concentrations vs. Sample Depth
 Nevada Environmental Response Trust Site
 Henderson, Nevada

Figure

8-11a

Notes:
 1. mg/L: milligrams per liter
 2. Groundwater Screening Level: 23.4 mg/L
 3. WBZ: Water Bearing Zone
 4. For clarity, locations not shown if data are not available.
 5. For clarity, labels for some wells in densely sampled areas are not shown.
 6. Data shown are generally the most recent data taken by NERT from January 2014 - June 2018 unless otherwise noted. Additional samples collected through November 2018 from the Phase 2 RI are also shown.

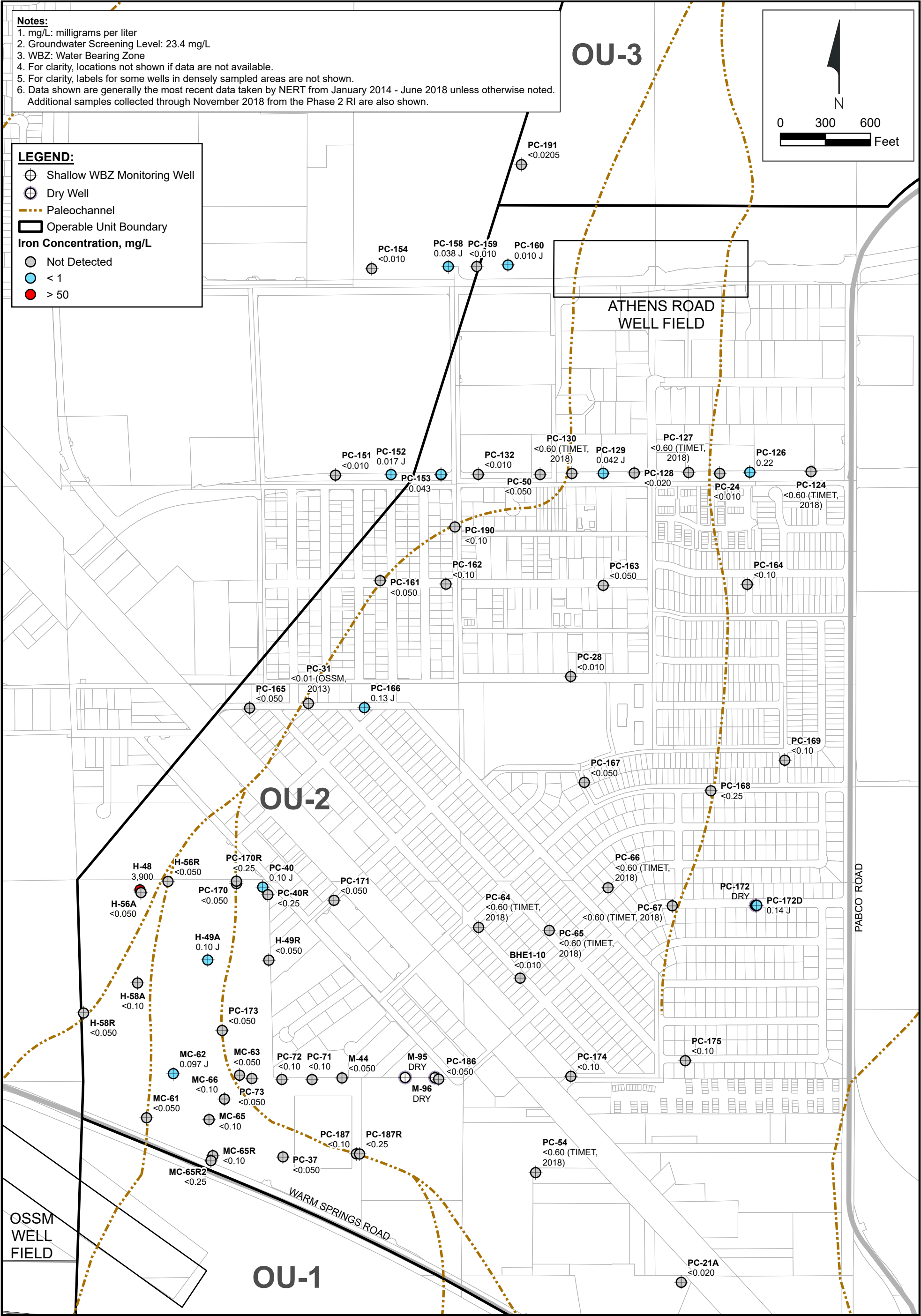


LEGEND:

- ⊕ Shallow WBZ Monitoring Well
- ⊖ Dry Well
- Paleochannel
- ▭ Operable Unit Boundary

Iron Concentration, mg/L

- Not Detected
- < 1
- > 50



Iron - Shallow WBZ (0-40 ft bgs)
OU-2 NERT Off-Site Study Area
 Nevada Environmental Response Trust Site, Henderson, Nevada

Figure
8-11b

Path: H:\LePetomane\NERT\OU-1_OU-2 RI Report\Working_Folder\Groundwater Maps\2022_OU2\figures_1.aprx

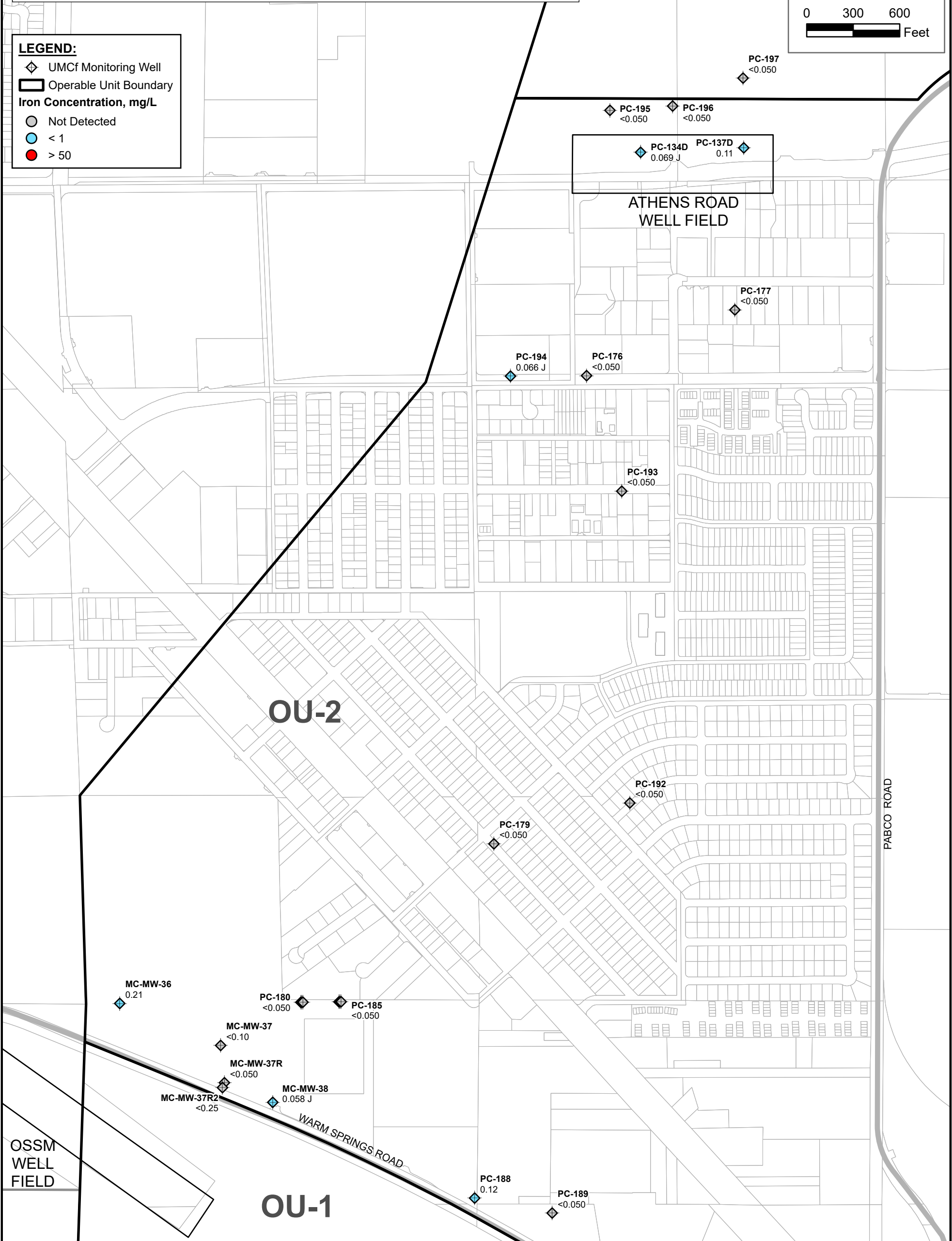
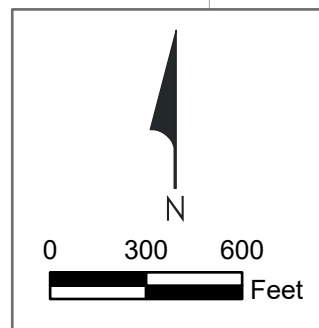
Notes:

- 1. mg/L: milligrams per liter
- 2. Groundwater Screening Level: 23.4 mg/L
- 3. WBZ: Water Bearing Zone
- 4. For clarity, locations not shown if data are not available.
- 5. For clarity, labels for some wells in densely sampled areas are not shown.
- 6. Data shown are generally the most recent data taken by NERT from January 2014 - June 2018 unless otherwise noted. Additional samples collected through November 2018 from the Phase 2 RI are also shown.

LEGEND:

- ◆ UMCf Monitoring Well
- ▭ Operable Unit Boundary
- Iron Concentration, mg/L**
- Not Detected
- < 1
- > 50

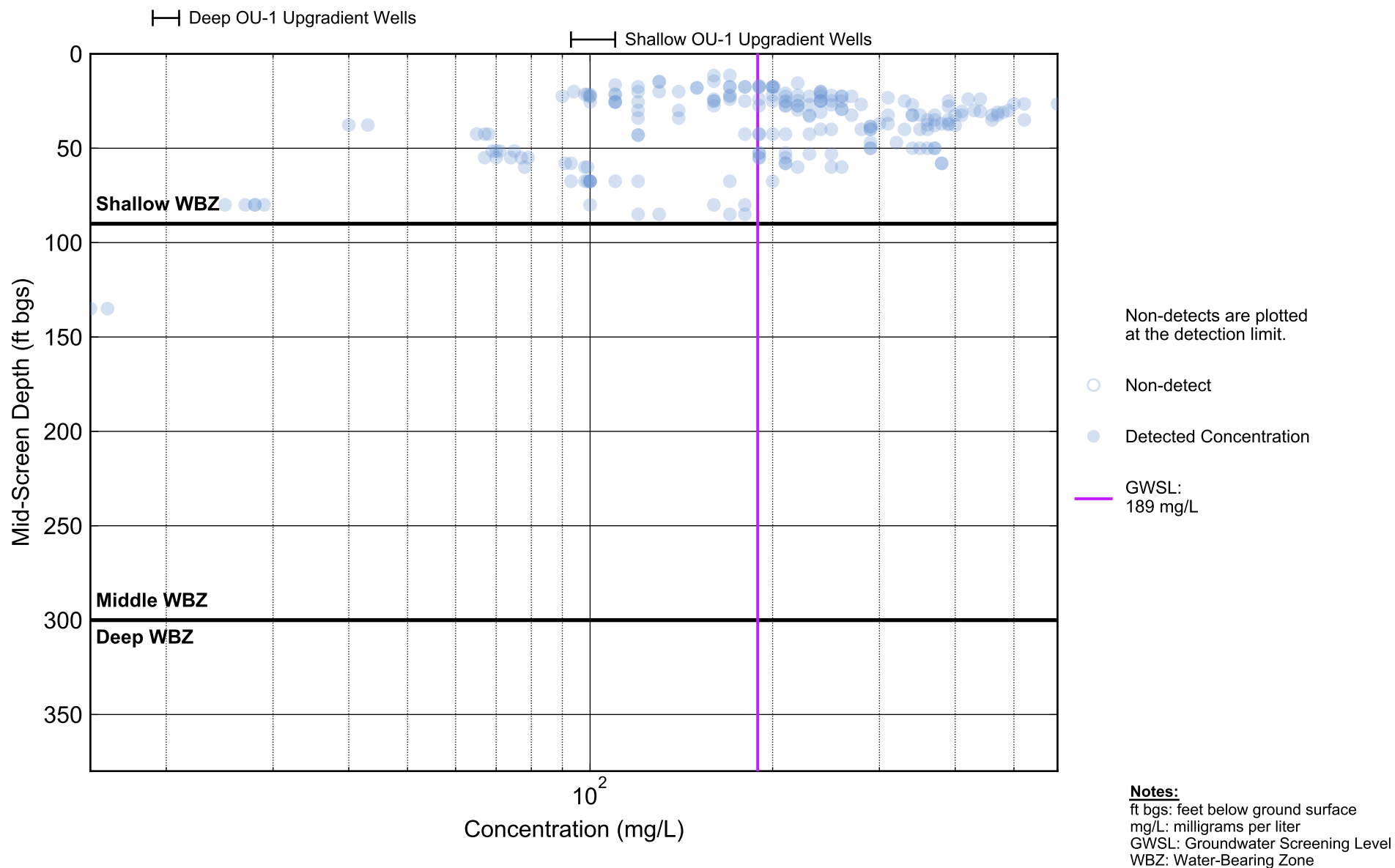
OU-3



Iron - Shallow WBZ (~40-90 ft bgs)
OU-2 NERT Off-Site Study Area
 Nevada Environmental Response Trust Site, Henderson, Nevada

Figure
8-11c

Path: H:\LePetomane\NERT\OU-1_OU-2 RI Report\Working_Folder\Groundwater Maps\2022_OU2\figures_1.aprx

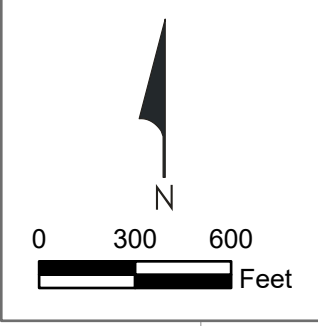


OU-2 Magnesium Groundwater Concentrations vs. Sample Depth
 Nevada Environmental Response Trust Site
 Henderson, Nevada

Figure

8-12a

Notes:
 1. mg/L: milligrams per liter
 2. Groundwater Screening Level: 189 mg/L
 3. WBZ: Water Bearing Zone
 4. For clarity, locations not shown if data are not available.
 5. For clarity, labels for some wells in densely sampled areas are not shown.
 6. Data shown are generally the most recent data taken by NERT from January 2014 - June 2018 unless otherwise noted.
 Additional samples collected through November 2018 from the Phase 2 RI are also shown.

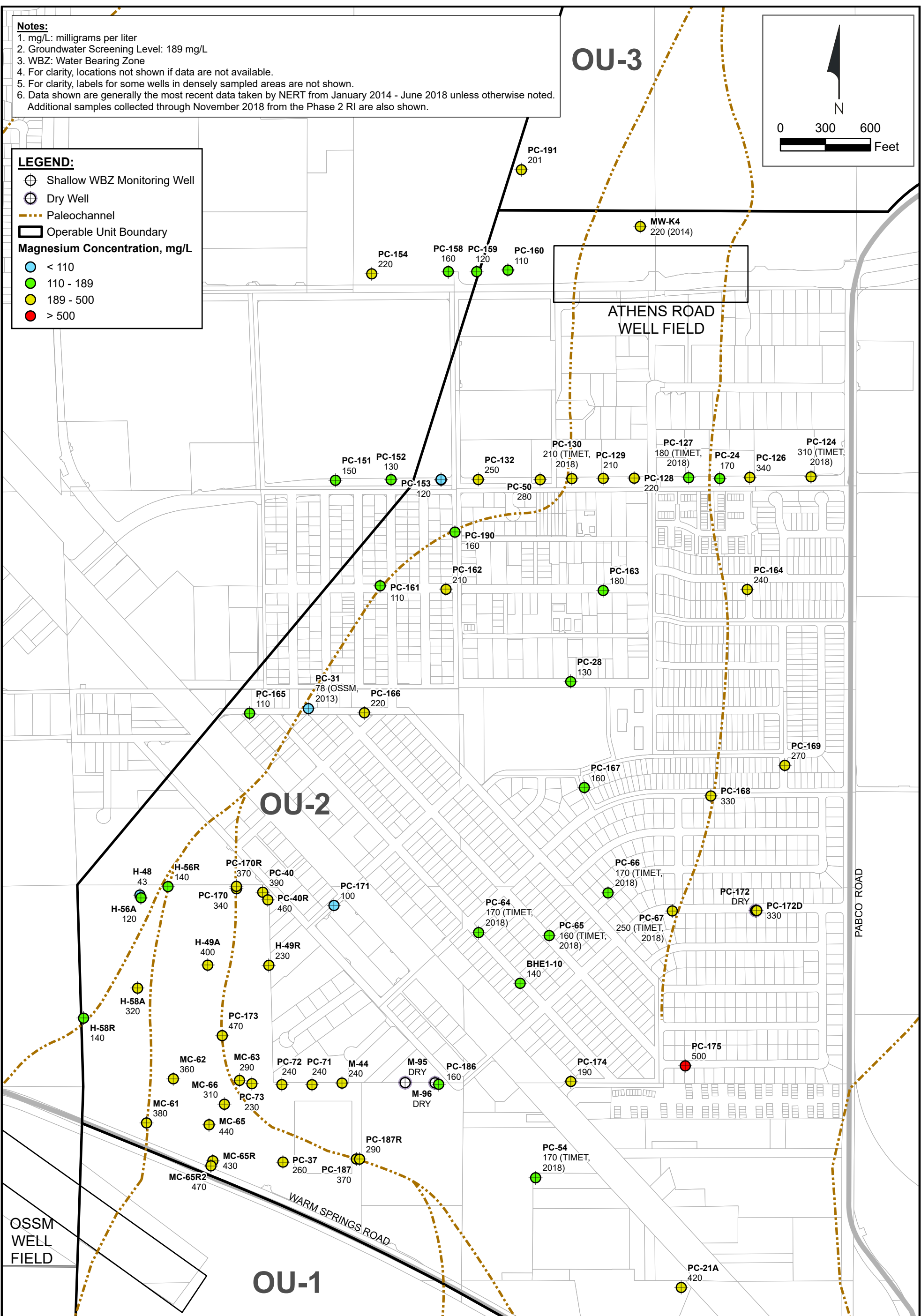


LEGEND:

- ⊕ Shallow WBZ Monitoring Well
- ⊖ Dry Well
- Paleochannel
- ▭ Operable Unit Boundary

Magnesium Concentration, mg/L

- < 110
- 110 - 189
- 189 - 500
- > 500



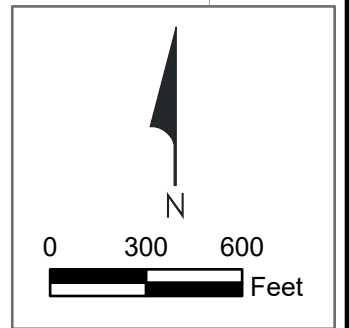
Magnesium - Shallow WBZ (0-40 ft bgs)
OU-2 NERT Off-Site Study Area
 Nevada Environmental Response Trust Site, Henderson, Nevada

Figure
8-12b

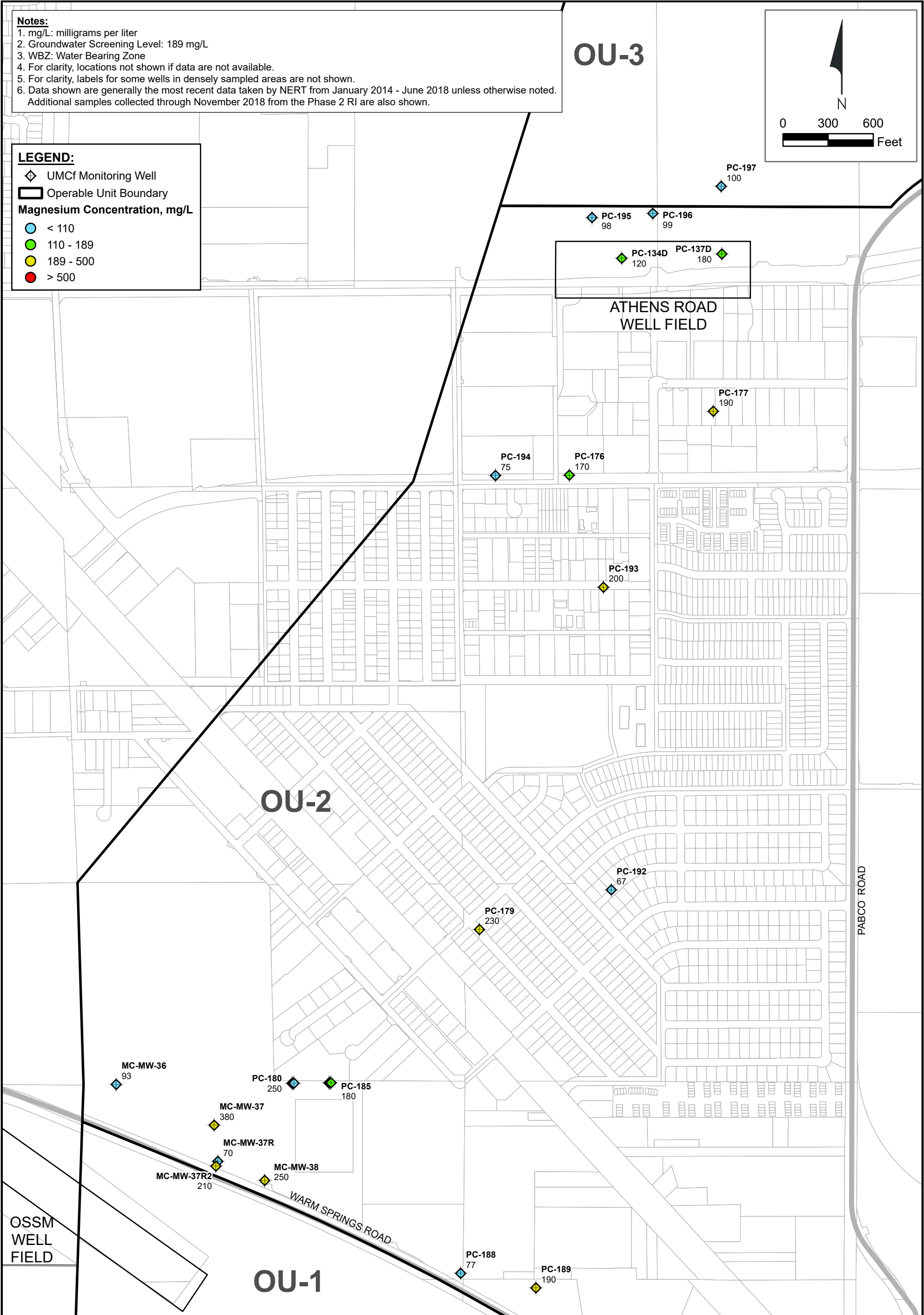
Path: H:\Petomane\NERT\OU-1_OU-2 RI Report\Working_Folder\Groundwater Maps\2022_OU2\figures_1.aprx

Notes:
 1. mg/L: milligrams per liter
 2. Groundwater Screening Level: 189 mg/L
 3. WBZ: Water Bearing Zone
 4. For clarity, locations not shown if data are not available.
 5. For clarity, labels for some wells in densely sampled areas are not shown.
 6. Data shown are generally the most recent data taken by NERT from January 2014 - June 2018 unless otherwise noted.
 Additional samples collected through November 2018 from the Phase 2 RI are also shown.

OU-3



LEGEND:
 ◆ UMCf Monitoring Well
 □ Operable Unit Boundary
Magnesium Concentration, mg/L
 ● < 110
 ● 110 - 189
 ● 189 - 500
 ● > 500

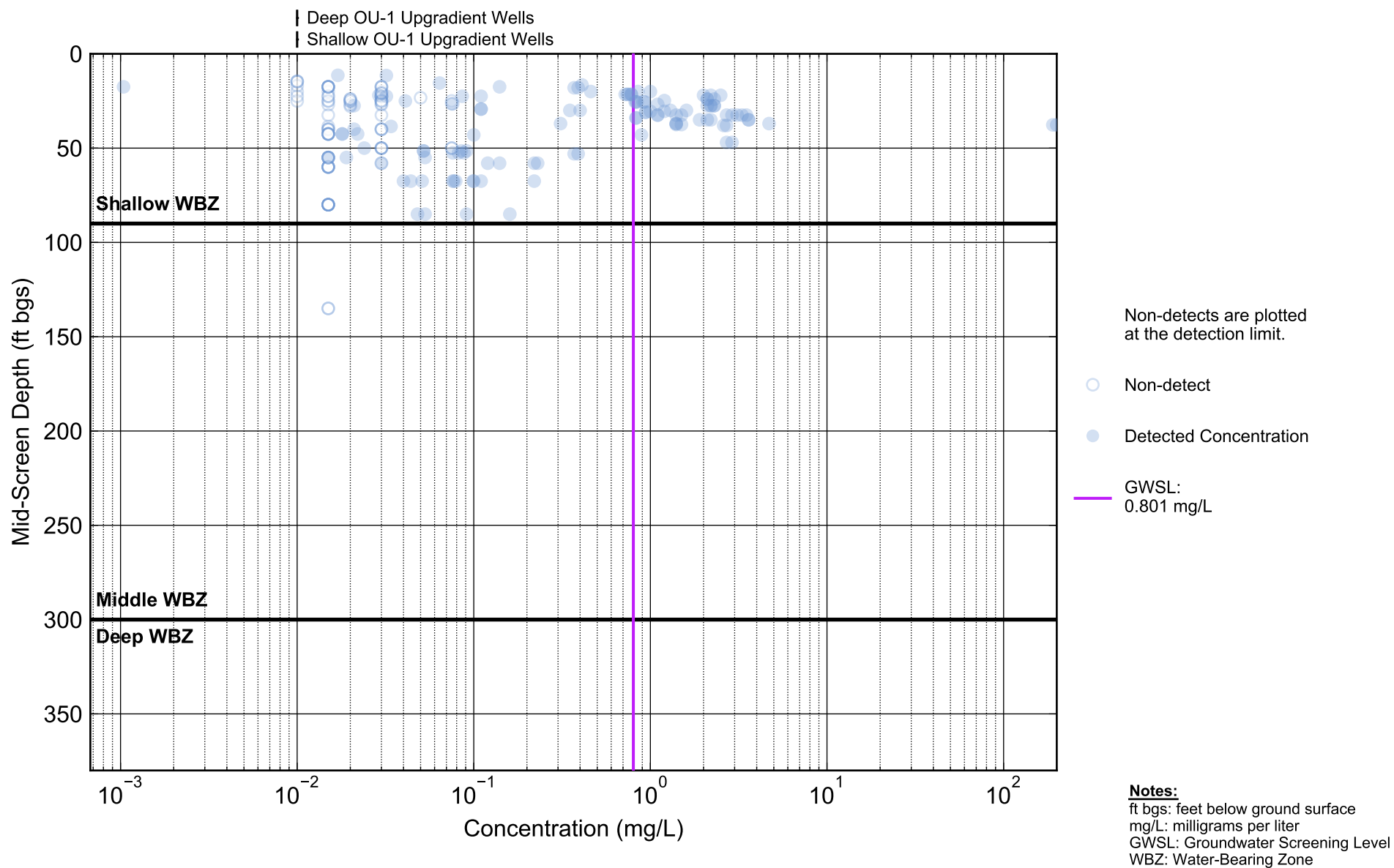


Magnesium - Shallow WBZ (~40-90 ft bgs)
OU-2 NERT Off-Site Study Area
 Nevada Environmental Response Trust Site, Henderson, Nevada

Figure
8-12c

Drafter: JC Date: 2023-01-11 Contract Number: 169002 9369 Approved by: Revised:

Path: H:\Petomane\NERT\OU-1_OU-2 RI Report\Working_Folder\Groundwater Maps\2022_OU2figures_1.aprx



OU-2 Manganese Groundwater Concentrations vs. Sample Depth
 Nevada Environmental Response Trust Site
 Henderson, Nevada

Figure

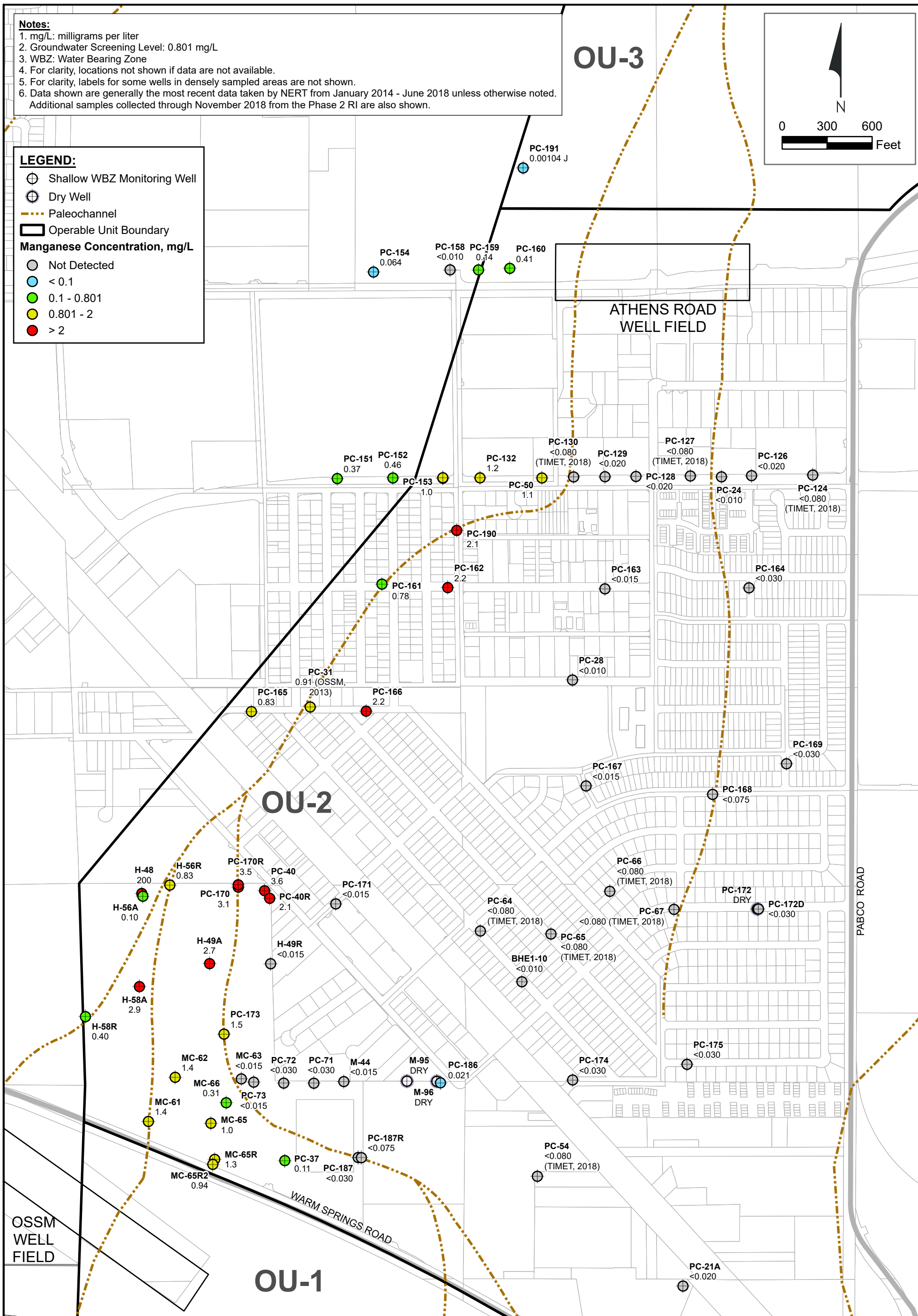
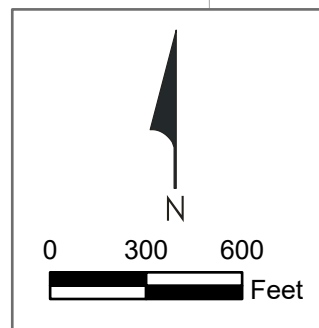
8-13a

Notes:

- 1. mg/L: milligrams per liter
- 2. Groundwater Screening Level: 0.801 mg/L
- 3. WBZ: Water Bearing Zone
- 4. For clarity, locations not shown if data are not available.
- 5. For clarity, labels for some wells in densely sampled areas are not shown.
- 6. Data shown are generally the most recent data taken by NERT from January 2014 - June 2018 unless otherwise noted. Additional samples collected through November 2018 from the Phase 2 RI are also shown.

LEGEND:

- ⊕ Shallow WBZ Monitoring Well
 - ⊖ Dry Well
 - Paleochannel
 - ▭ Operable Unit Boundary
- Manganese Concentration, mg/L**
- Not Detected
 - < 0.1
 - 0.1 - 0.801
 - 0.801 - 2
 - > 2



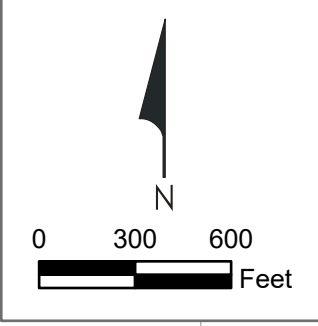
Manganese - Shallow WBZ (0-40 ft bgs)
OU-2 NERT Off-Site Study Area
 Nevada Environmental Response Trust Site, Henderson, Nevada

Figure
8-13b

Path: H:\LePetomane\NERT\OU-1_OU-2 RI Report\Working_Folder\Groundwater Maps\2022_OU2\figures_1.aprx

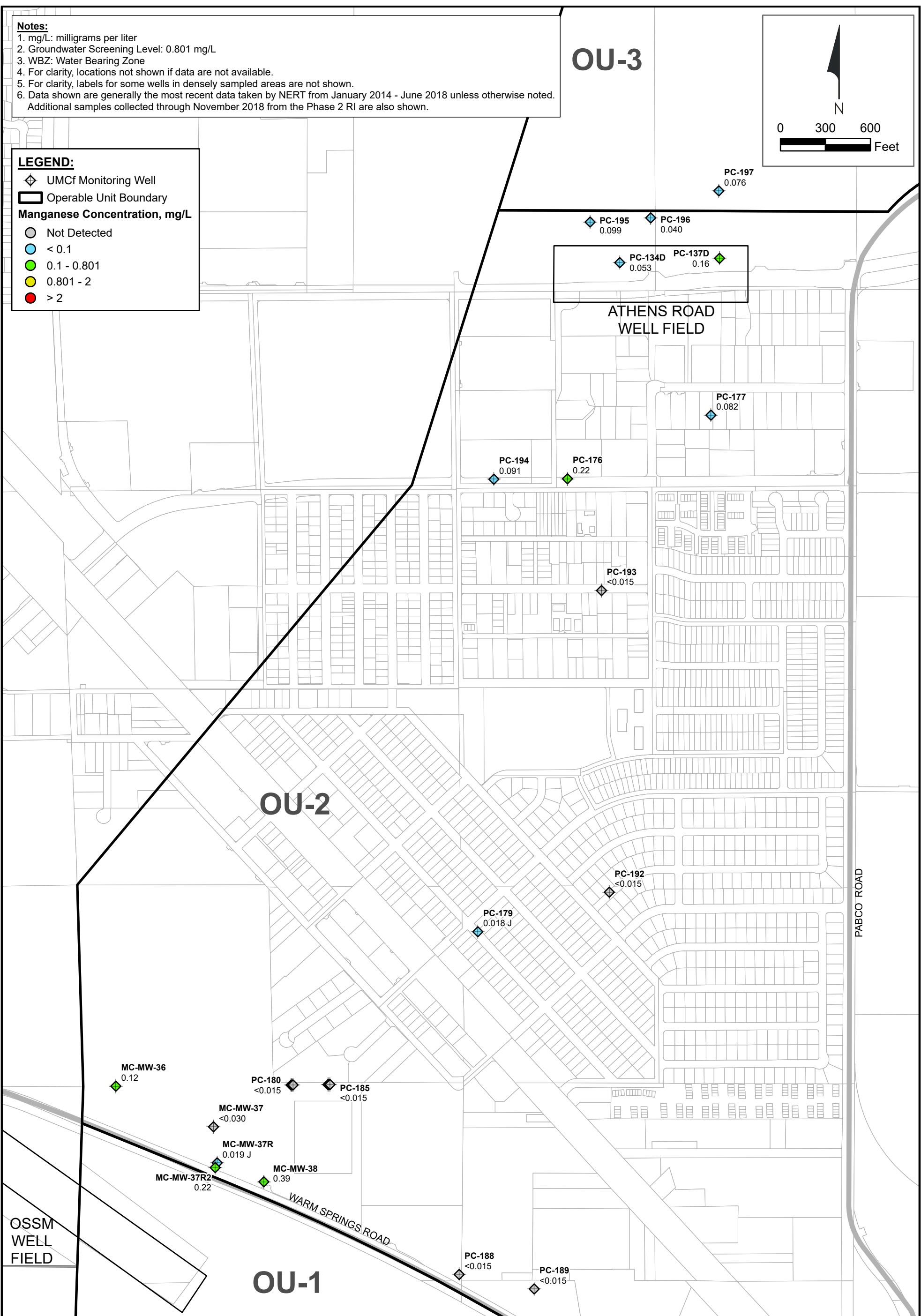
Notes:

- 1. mg/L: milligrams per liter
- 2. Groundwater Screening Level: 0.801 mg/L
- 3. WBZ: Water Bearing Zone
- 4. For clarity, locations not shown if data are not available.
- 5. For clarity, labels for some wells in densely sampled areas are not shown.
- 6. Data shown are generally the most recent data taken by NERT from January 2014 - June 2018 unless otherwise noted. Additional samples collected through November 2018 from the Phase 2 RI are also shown.



LEGEND:

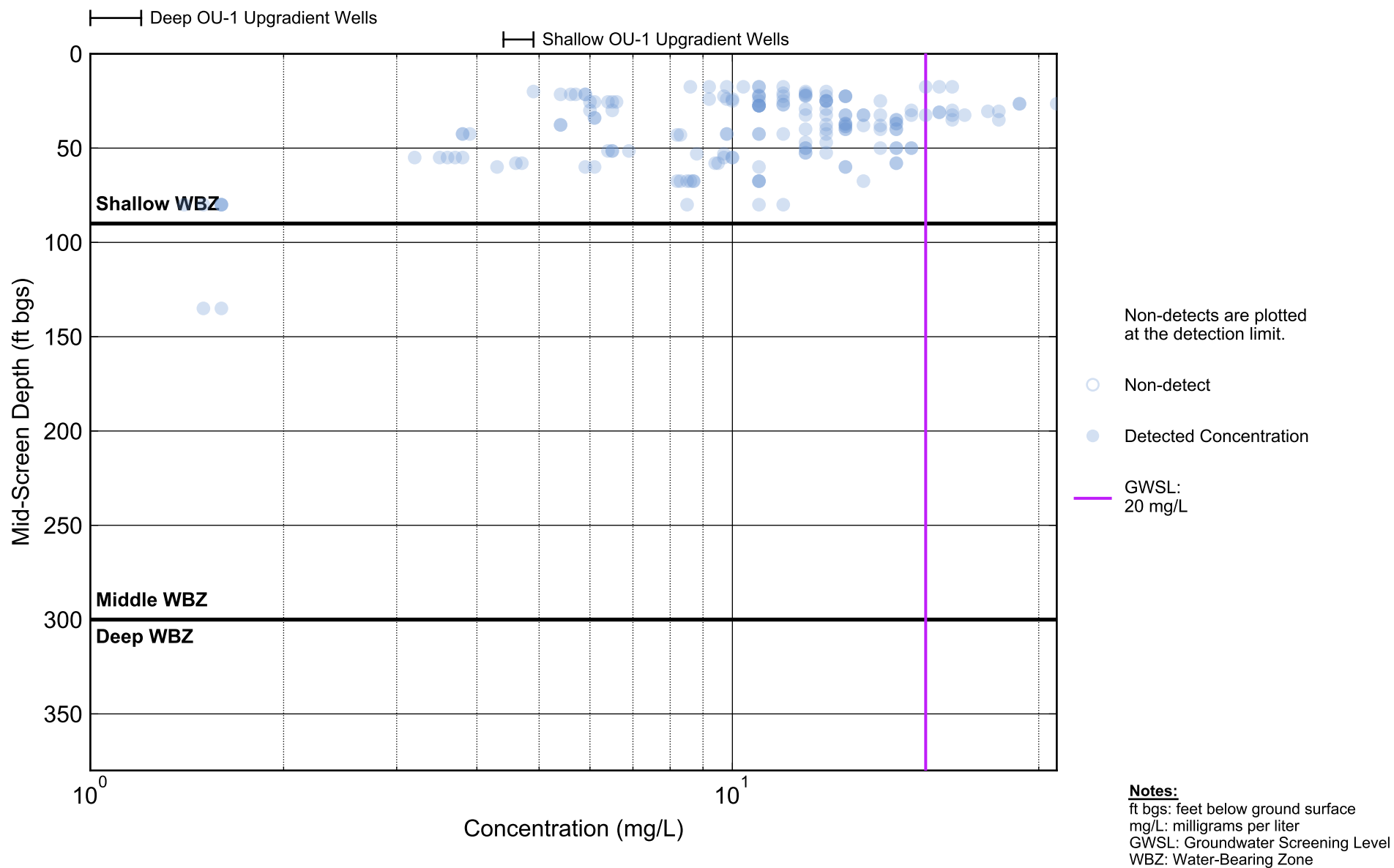
- ◆ UMCf Monitoring Well
 - ▭ Operable Unit Boundary
- Manganese Concentration, mg/L**
- Not Detected
 - < 0.1
 - 0.1 - 0.801
 - 0.801 - 2
 - > 2



Manganese - Shallow WBZ (~40-90 ft bgs)
OU-2 NERT Off-Site Study Area
 Nevada Environmental Response Trust Site, Henderson, Nevada

Figure
8-13c

Path: H:\Petomane\NERT\OU-1_OU-2 RI Report\Working_Folder\Groundwater Maps\2022_OU2\figures_1.aprx

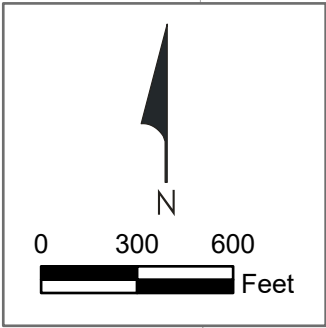


OU-2 Strontium Groundwater Concentrations vs. Sample Depth
 Nevada Environmental Response Trust Site
 Henderson, Nevada

Figure

8-14a

Notes:
 1. mg/L: milligrams per liter
 2. Groundwater Screening Level: 20 mg/L
 3. WBZ: Water Bearing Zone
 4. For clarity, locations not shown if data are not available.
 5. For clarity, labels for some wells in densely sampled areas are not shown.
 6. Data shown are generally the most recent data taken by NERT from January 2014 - June 2018 unless otherwise noted.
 Additional samples collected through November 2018 from the Phase 2 RI are also shown.

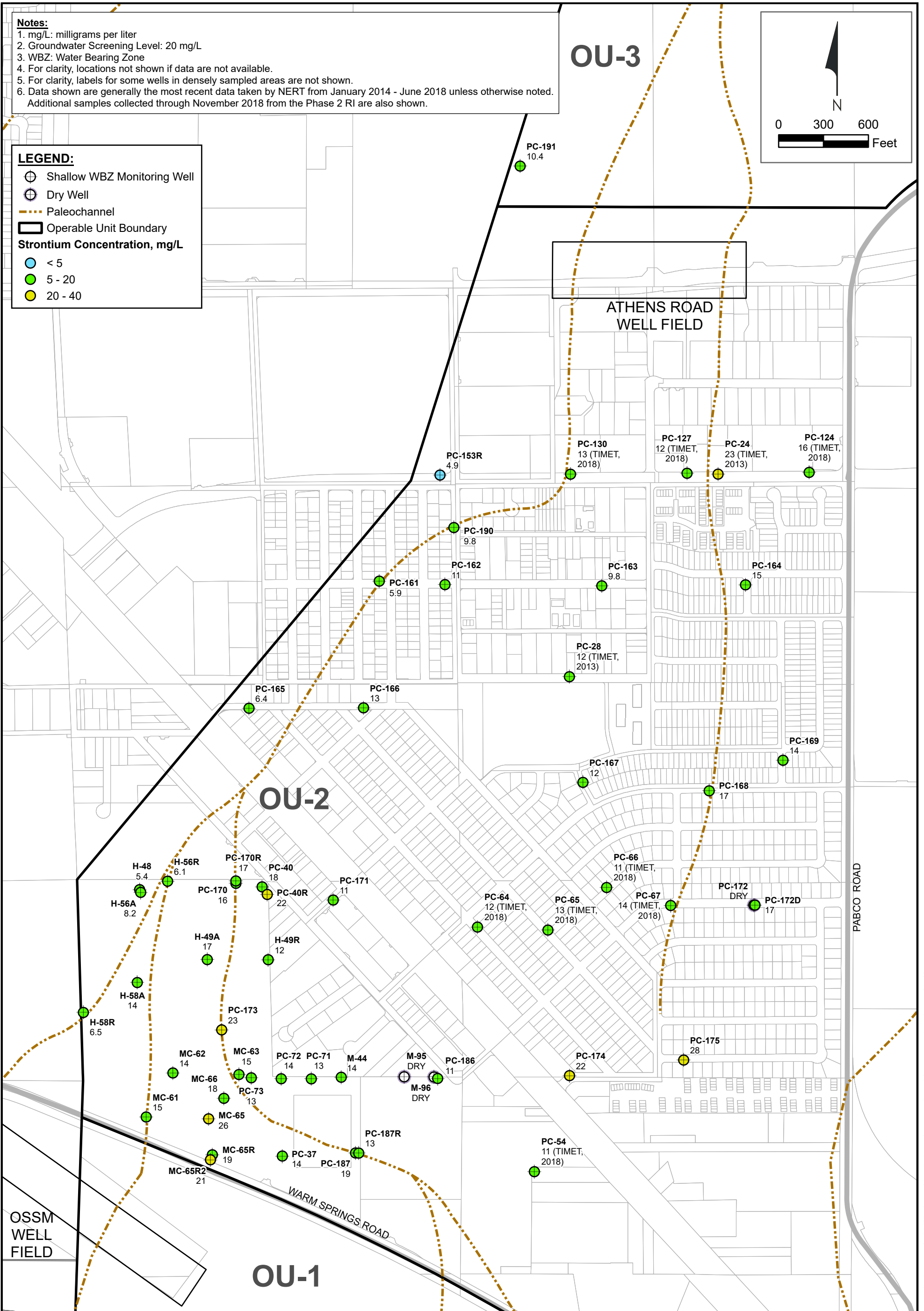


LEGEND:

- ⊕ Shallow WBZ Monitoring Well
- ⊖ Dry Well
- Paleochannel
- ▭ Operable Unit Boundary

Strontium Concentration, mg/L

- < 5
- 5 - 20
- 20 - 40



Strontium - Shallow WBZ (0-40 ft bgs)
OU-2 NERT Off-Site Study Area
 Nevada Environmental Response Trust Site, Henderson, Nevada

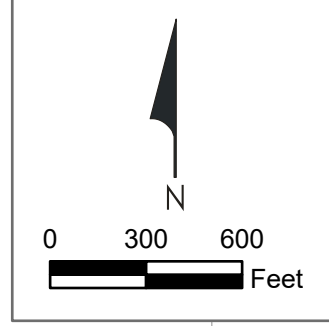
Figure
8-14b

Drafter: JC Date: 2023-01-11 Contract Number: 169002 9369 Approved by: Revised:

Path: H:\Petomane\NERT\OU-1_OU-2 RI Report\Working_Folder\Groundwater Maps\2022_OU2\figures_1.aprx

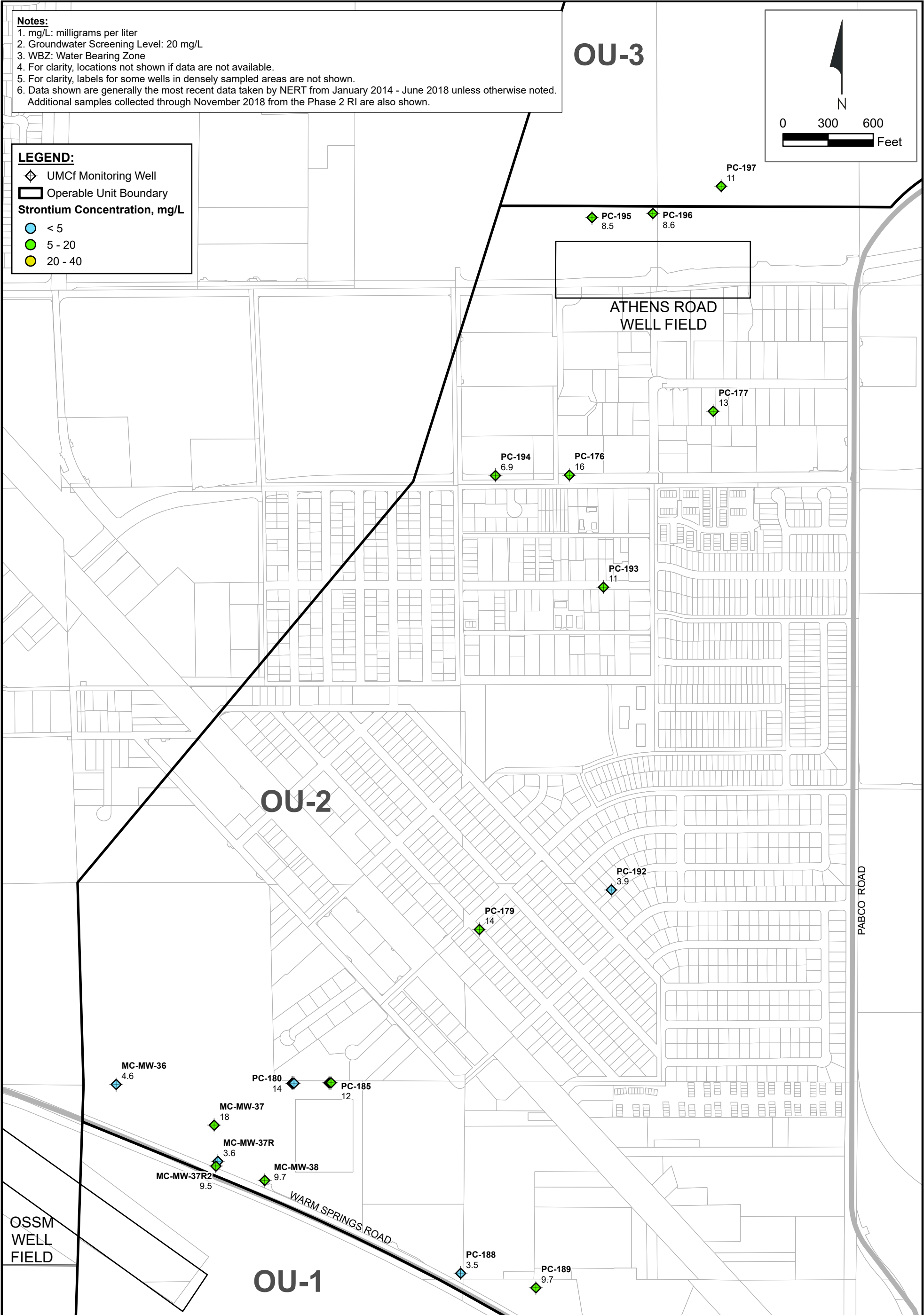
Notes:

- 1. mg/L: milligrams per liter
- 2. Groundwater Screening Level: 20 mg/L
- 3. WBZ: Water Bearing Zone
- 4. For clarity, locations not shown if data are not available.
- 5. For clarity, labels for some wells in densely sampled areas are not shown.
- 6. Data shown are generally the most recent data taken by NERT from January 2014 - June 2018 unless otherwise noted. Additional samples collected through November 2018 from the Phase 2 RI are also shown.



LEGEND:

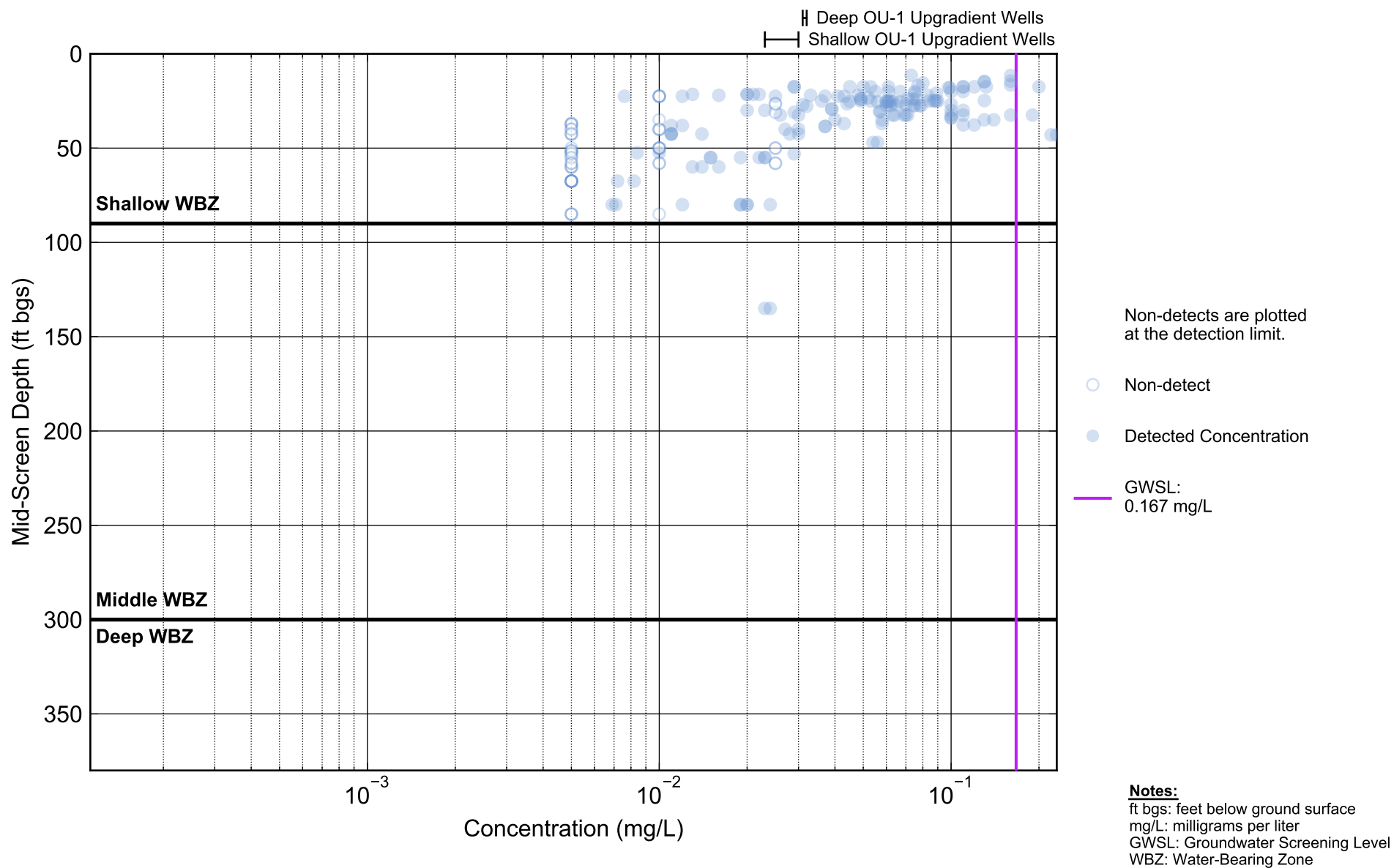
- ◆ UMCf Monitoring Well
 - ▭ Operable Unit Boundary
- Strontium Concentration, mg/L**
- < 5
 - 5 - 20
 - 20 - 40



Strontium - Shallow WBZ (~40-90 ft bgs)
OU-2 NERT Off-Site Study Area
 Nevada Environmental Response Trust Site, Henderson, Nevada

Figure
8-14c

Path: H:\LePetomane\NERT\OU-1_OU-2 RI Report\Working_Folder\Groundwater Maps\2022_OU2\figures_1.aprx



OU-2 Vanadium Groundwater Concentrations vs. Sample Depth
 Nevada Environmental Response Trust Site
 Henderson, Nevada

Figure

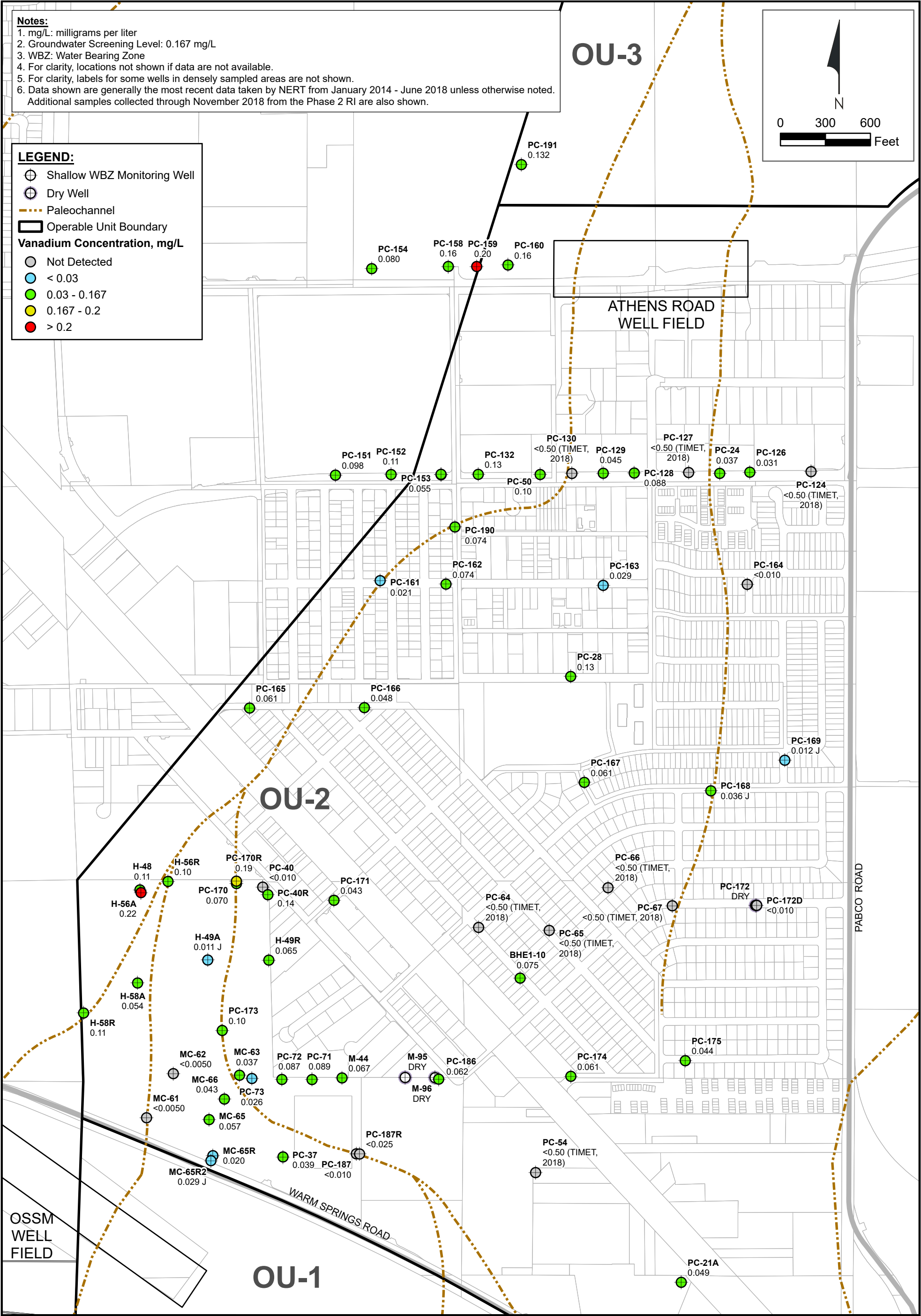
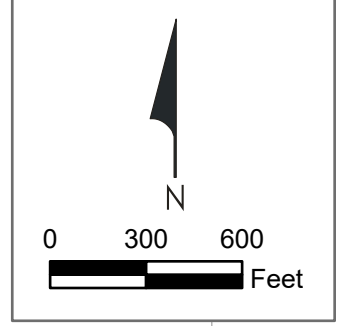
8-15a

Notes:

1. mg/L: milligrams per liter
2. Groundwater Screening Level: 0.167 mg/L
3. WBZ: Water Bearing Zone
4. For clarity, locations not shown if data are not available.
5. For clarity, labels for some wells in densely sampled areas are not shown.
6. Data shown are generally the most recent data taken by NERT from January 2014 - June 2018 unless otherwise noted. Additional samples collected through November 2018 from the Phase 2 RI are also shown.

LEGEND:

- ⊕ Shallow WBZ Monitoring Well
 - ⊖ Dry Well
 - Paleochannel
 - ▭ Operable Unit Boundary
- Vanadium Concentration, mg/L**
- Not Detected
 - < 0.03
 - 0.03 - 0.167
 - 0.167 - 0.2
 - > 0.2



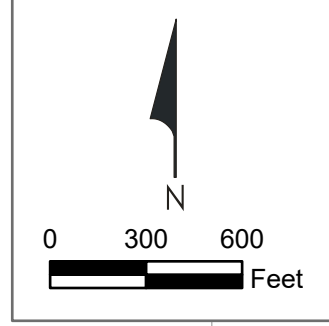
Vanadium - Shallow WBZ (0-40 ft bgs)
OU-2 NERT Off-Site Study Area
 Nevada Environmental Response Trust Site, Henderson, Nevada

Figure
8-15b

Path: H:\LePetome\NERT\OU-1_OU-2 RI Report\Working_Folder\Groundwater Maps\2022_OU2figures_1.aprx

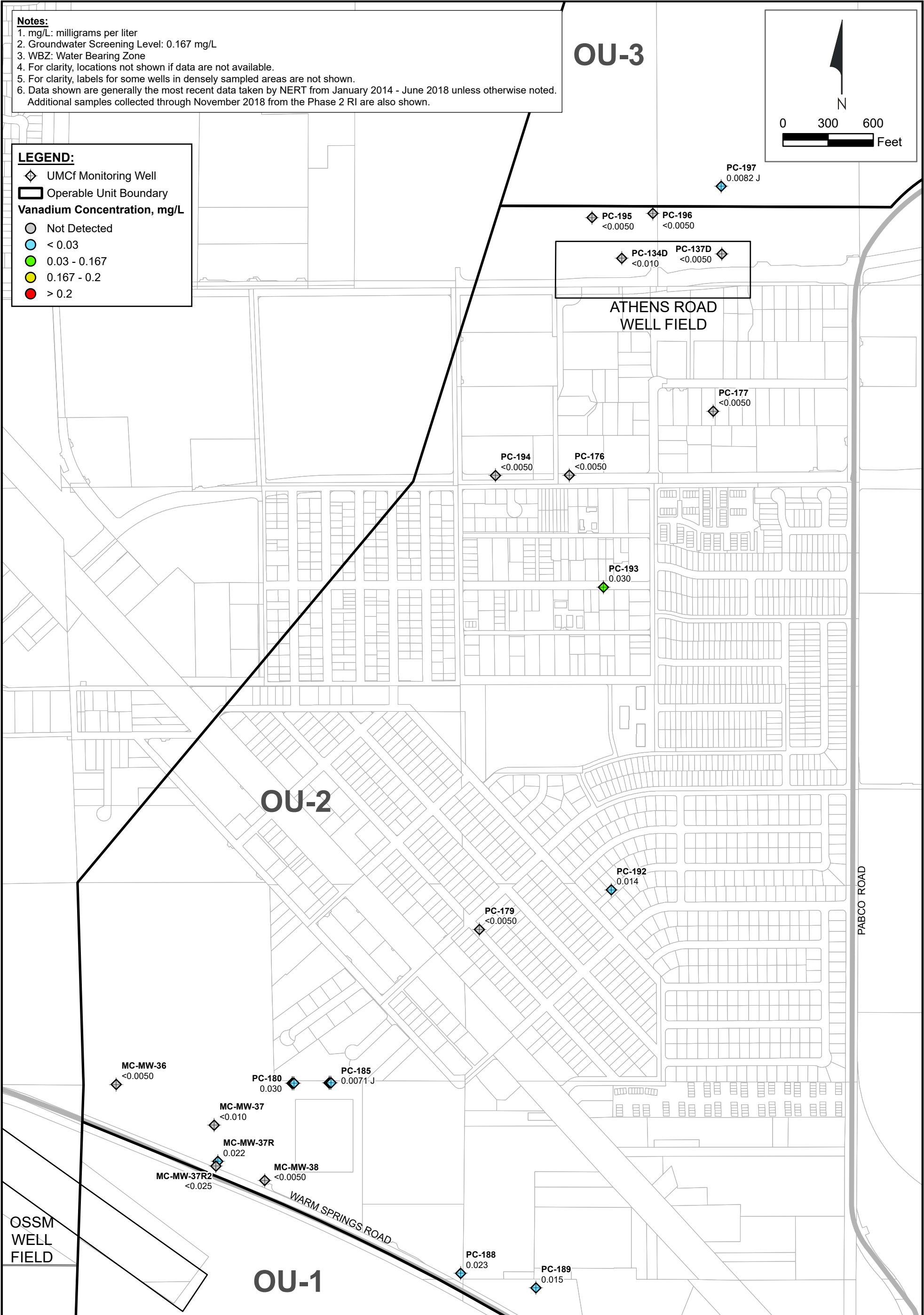
Notes:

- 1. mg/L: milligrams per liter
- 2. Groundwater Screening Level: 0.167 mg/L
- 3. WBZ: Water Bearing Zone
- 4. For clarity, locations not shown if data are not available.
- 5. For clarity, labels for some wells in densely sampled areas are not shown.
- 6. Data shown are generally the most recent data taken by NERT from January 2014 - June 2018 unless otherwise noted. Additional samples collected through November 2018 from the Phase 2 RI are also shown.



LEGEND:

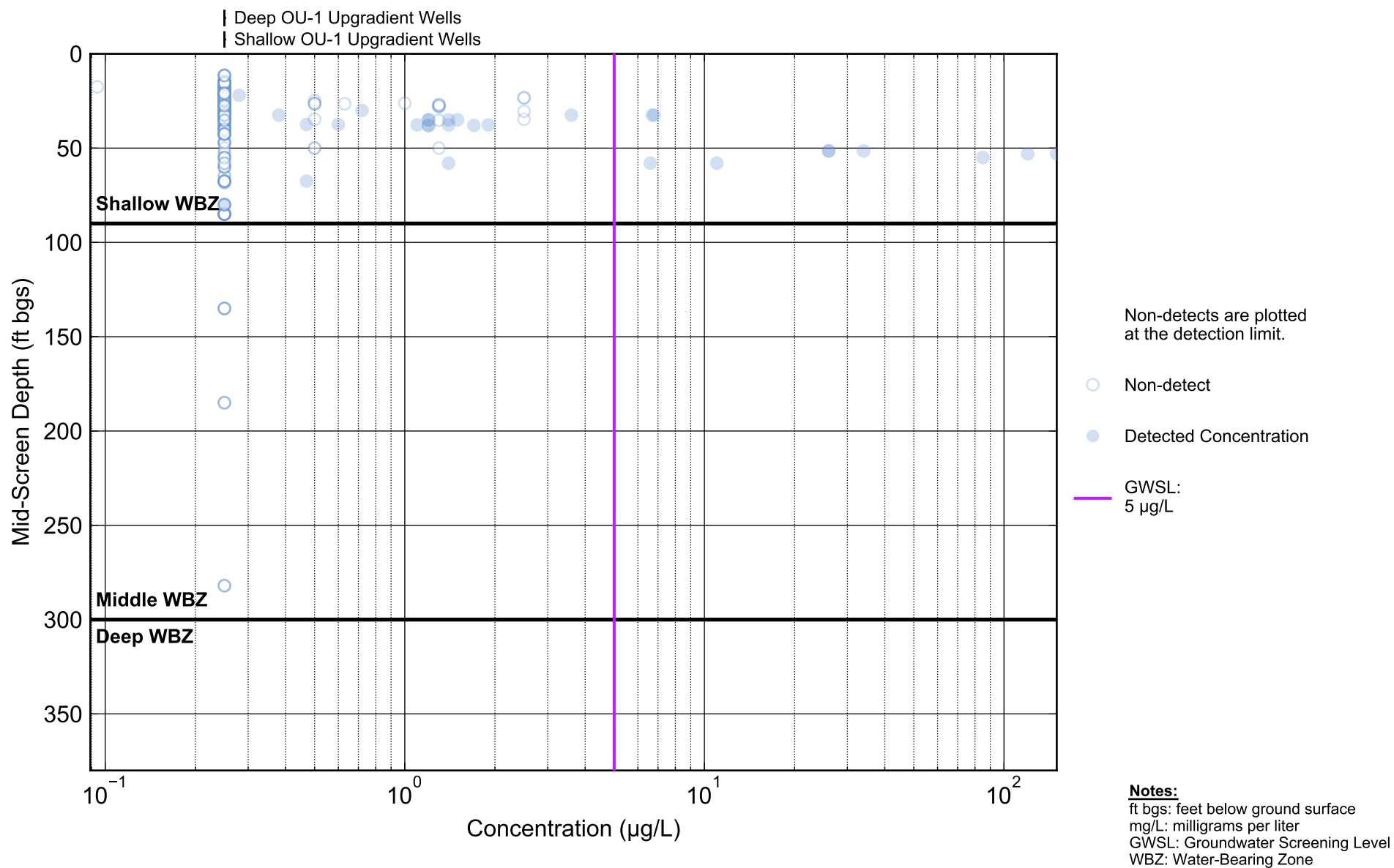
- ◆ UMCf Monitoring Well
 - ▭ Operable Unit Boundary
- Vanadium Concentration, mg/L**
- Not Detected
 - < 0.03
 - 0.03 - 0.167
 - 0.167 - 0.2
 - > 0.2



Vanadium - Shallow WBZ (~40-90 ft bgs)
OU-2 NERT Off-Site Study Area
 Nevada Environmental Response Trust Site, Henderson, Nevada

Figure
8-15c

Path: H:\LePetomane\NERT\OU-1_OU-2 RI Report\Working_Folder\Groundwater Maps\2022_OU2\figures_1.aprx



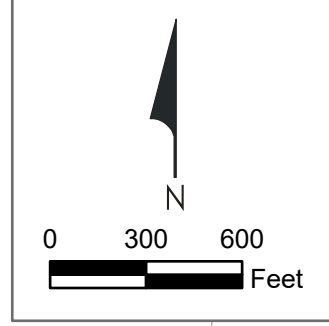
OU-2 Benzene Groundwater Concentrations vs. Sample Depth
 Nevada Environmental Response Trust Site
 Henderson, Nevada

Figure

8-16a

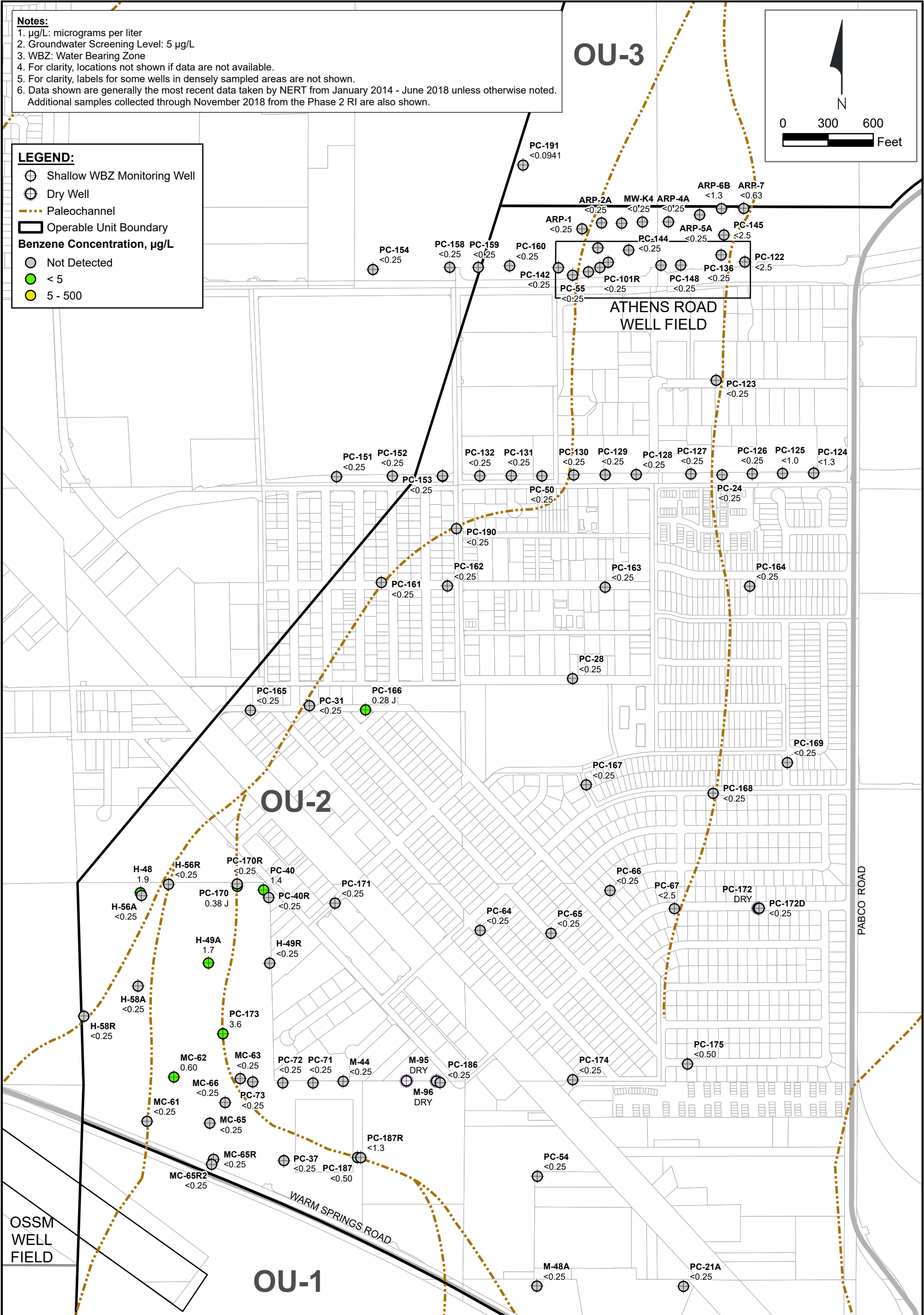
Notes:

1. µg/L: micrograms per liter
2. Groundwater Screening Level: 5 µg/L
3. WBZ: Water Bearing Zone
4. For clarity, locations not shown if data are not available.
5. For clarity, labels for some wells in densely sampled areas are not shown.
6. Data shown are generally the most recent data taken by NERT from January 2014 - June 2018 unless otherwise noted. Additional samples collected through November 2018 from the Phase 2 RI are also shown.



LEGEND:

- ⊕ Shallow WBZ Monitoring Well
 - ⊖ Dry Well
 - - - Paleochannel
 - ▭ Operable Unit Boundary
- Benzene Concentration, µg/L**
- Not Detected
 - < 5
 - 5 - 500



Benzene - Shallow WBZ (0-40 ft bgs)
OU-2 NERT Off-Site Study Area
 Nevada Environmental Response Trust Site, Henderson, Nevada

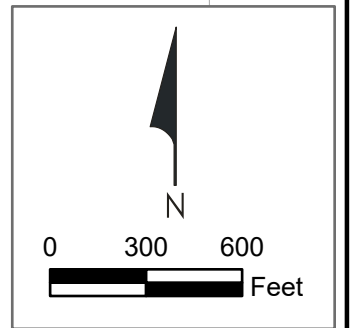
Figure
8-16b

Path: H:\Petomane\NERT\OU-1_OU-2 RI Report\Working_Folder\Groundwater Maps\2022_OU2\figures_1.aprx

Notes:

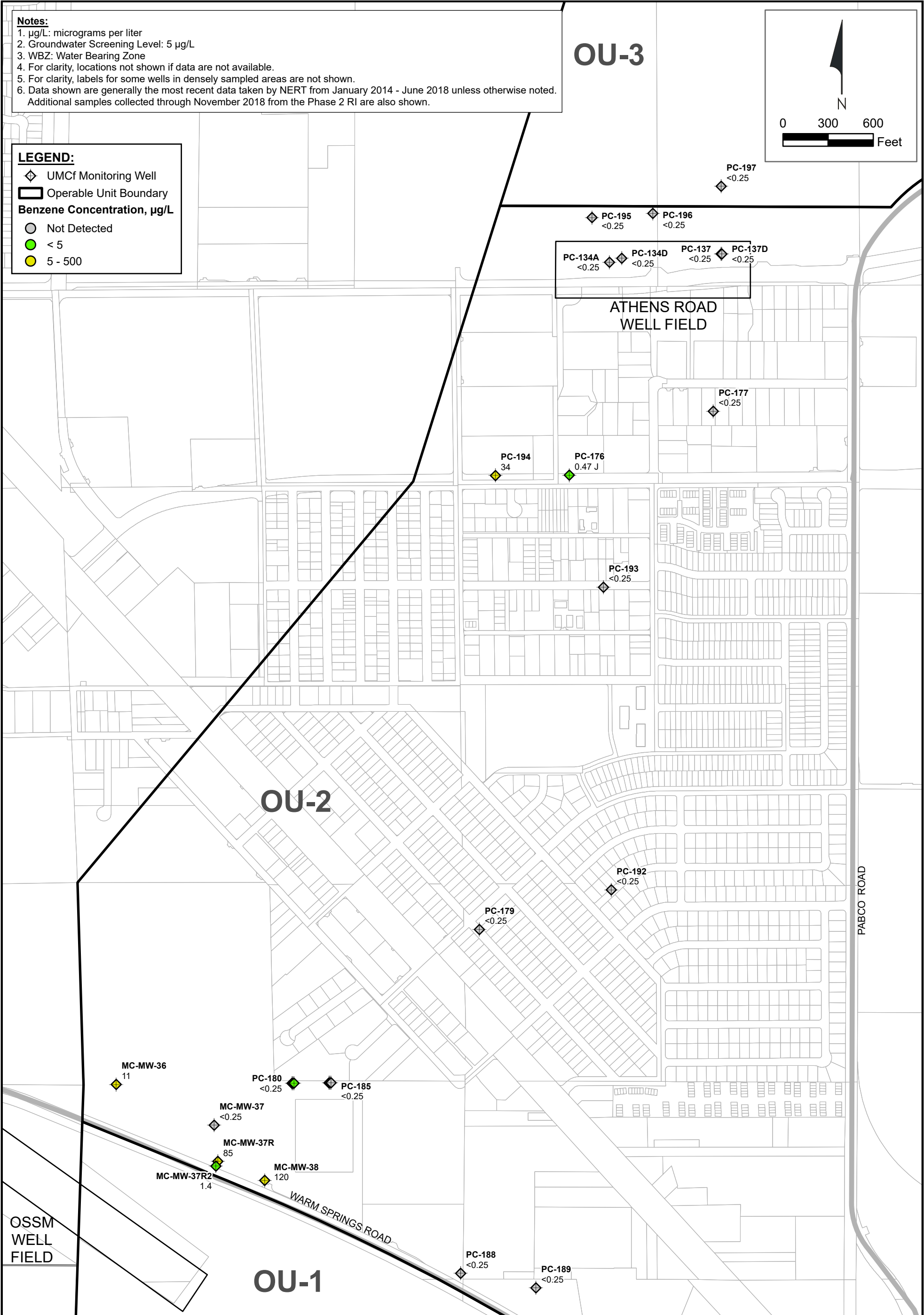
- 1. µg/L: micrograms per liter
- 2. Groundwater Screening Level: 5 µg/L
- 3. WBZ: Water Bearing Zone
- 4. For clarity, locations not shown if data are not available.
- 5. For clarity, labels for some wells in densely sampled areas are not shown.
- 6. Data shown are generally the most recent data taken by NERT from January 2014 - June 2018 unless otherwise noted. Additional samples collected through November 2018 from the Phase 2 RI are also shown.

OU-3



LEGEND:

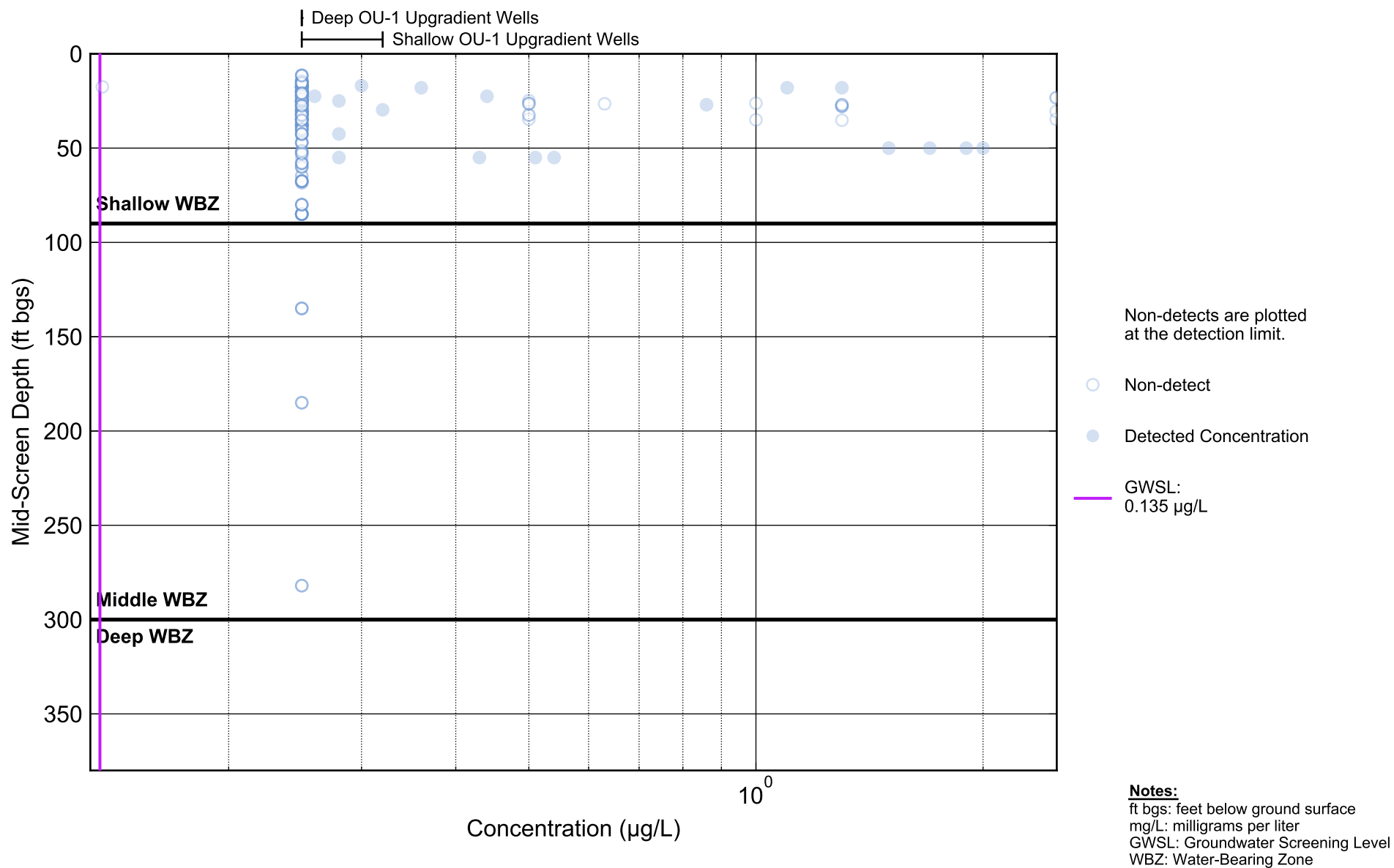
- ◆ UMCf Monitoring Well
- ▭ Operable Unit Boundary
- Benzene Concentration, µg/L**
- Not Detected
- < 5
- 5 - 500



Benzene - Shallow WBZ (~40-90 ft bgs)
OU-2 NERT Off-Site Study Area
 Nevada Environmental Response Trust Site, Henderson, Nevada

Figure
8-16c

Path: H:\Petomane\NERT\OU-1_OU-2 RI Report\Working_Folder\Groundwater Maps\2022_OU2figures_1.aprx



OU-2 Bromodichloromethane Groundwater Concentrations vs. Sample Depth
 Nevada Environmental Response Trust Site
 Henderson, Nevada

Figure

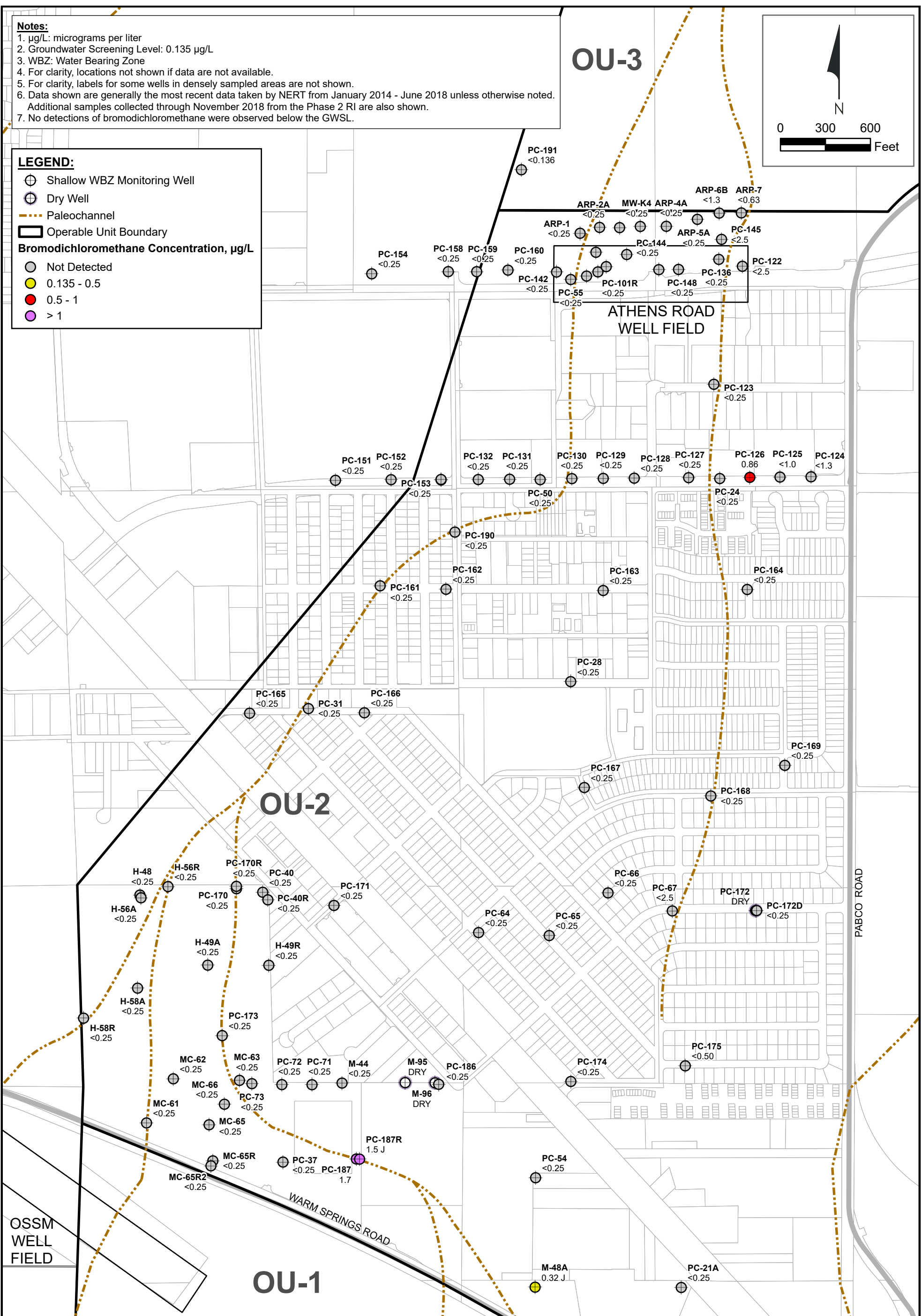
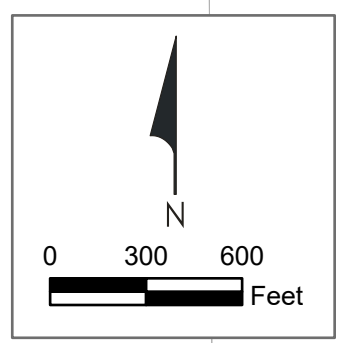
8-17a

Notes:

1. µg/L: micrograms per liter
2. Groundwater Screening Level: 0.135 µg/L
3. WBZ: Water Bearing Zone
4. For clarity, locations not shown if data are not available.
5. For clarity, labels for some wells in densely sampled areas are not shown.
6. Data shown are generally the most recent data taken by NERT from January 2014 - June 2018 unless otherwise noted. Additional samples collected through November 2018 from the Phase 2 RI are also shown.
7. No detections of bromodichloromethane were observed below the GWSL.

LEGEND:

- ⊕ Shallow WBZ Monitoring Well
 - ⊖ Dry Well
 - Paleochannel
 - ▭ Operable Unit Boundary
- Bromodichloromethane Concentration, µg/L**
- Not Detected
 - 0.135 - 0.5
 - 0.5 - 1
 - > 1



Bromodichloromethane - Shallow WBZ (0-40 ft bgs)
OU-2 NERT Off-Site Study Area
 Nevada Environmental Response Trust Site, Henderson, Nevada

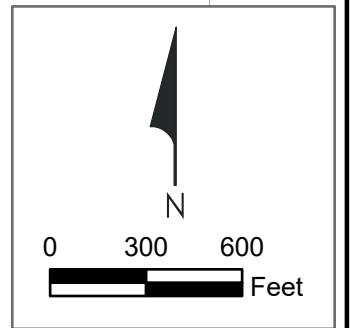
Figure
8-17b

Path: H:\Petomane\NERT\OU-1_OU-2 RI Report\Working_Folder\Groundwater Maps\2022_OU2\figures_2.aprx

Notes:

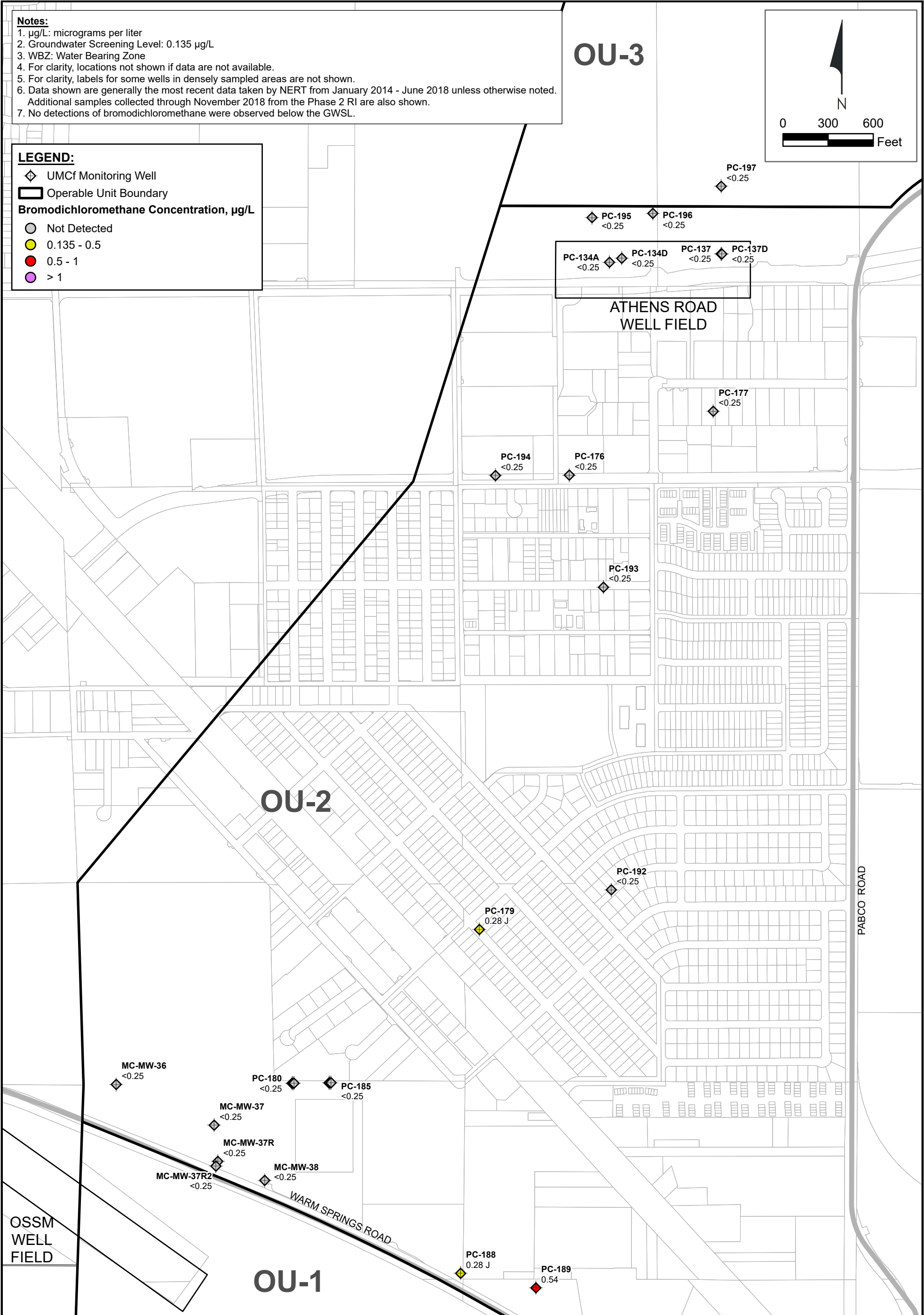
- 1. µg/L: micrograms per liter
- 2. Groundwater Screening Level: 0.135 µg/L
- 3. WBZ: Water Bearing Zone
- 4. For clarity, locations not shown if data are not available.
- 5. For clarity, labels for some wells in densely sampled areas are not shown.
- 6. Data shown are generally the most recent data taken by NERT from January 2014 - June 2018 unless otherwise noted. Additional samples collected through November 2018 from the Phase 2 RI are also shown.
- 7. No detections of bromodichloromethane were observed below the GWSL.

OU-3



LEGEND:

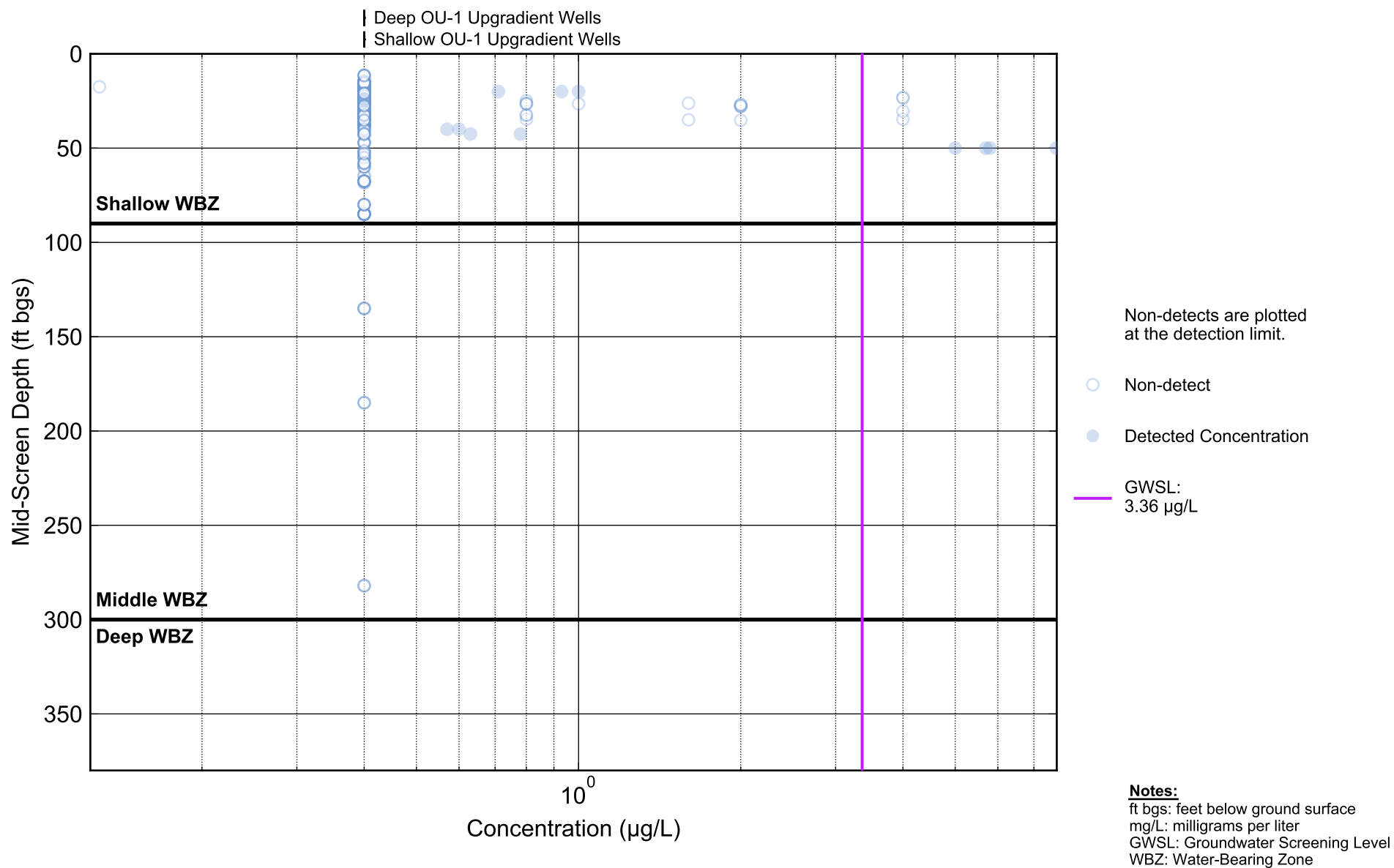
- ◆ UMCf Monitoring Well
 - ▭ Operable Unit Boundary
- Bromodichloromethane Concentration, µg/L**
- Not Detected
 - 0.135 - 0.5
 - 0.5 - 1
 - > 1



Bromodichloromethane - Shallow WBZ (~40-90 ft bgs)
OU-2 NERT Off-Site Study Area
 Nevada Environmental Response Trust Site, Henderson, Nevada

Figure
8-17c

Path: H:\Petomane\NERT\OU-1_OU-2 RI Report\Working_Folder\Groundwater Maps\2022_OU2\figures_2.aprx



OU-2 Bromoform Groundwater Concentrations vs. Sample Depth
 Nevada Environmental Response Trust Site
 Henderson, Nevada

Figure

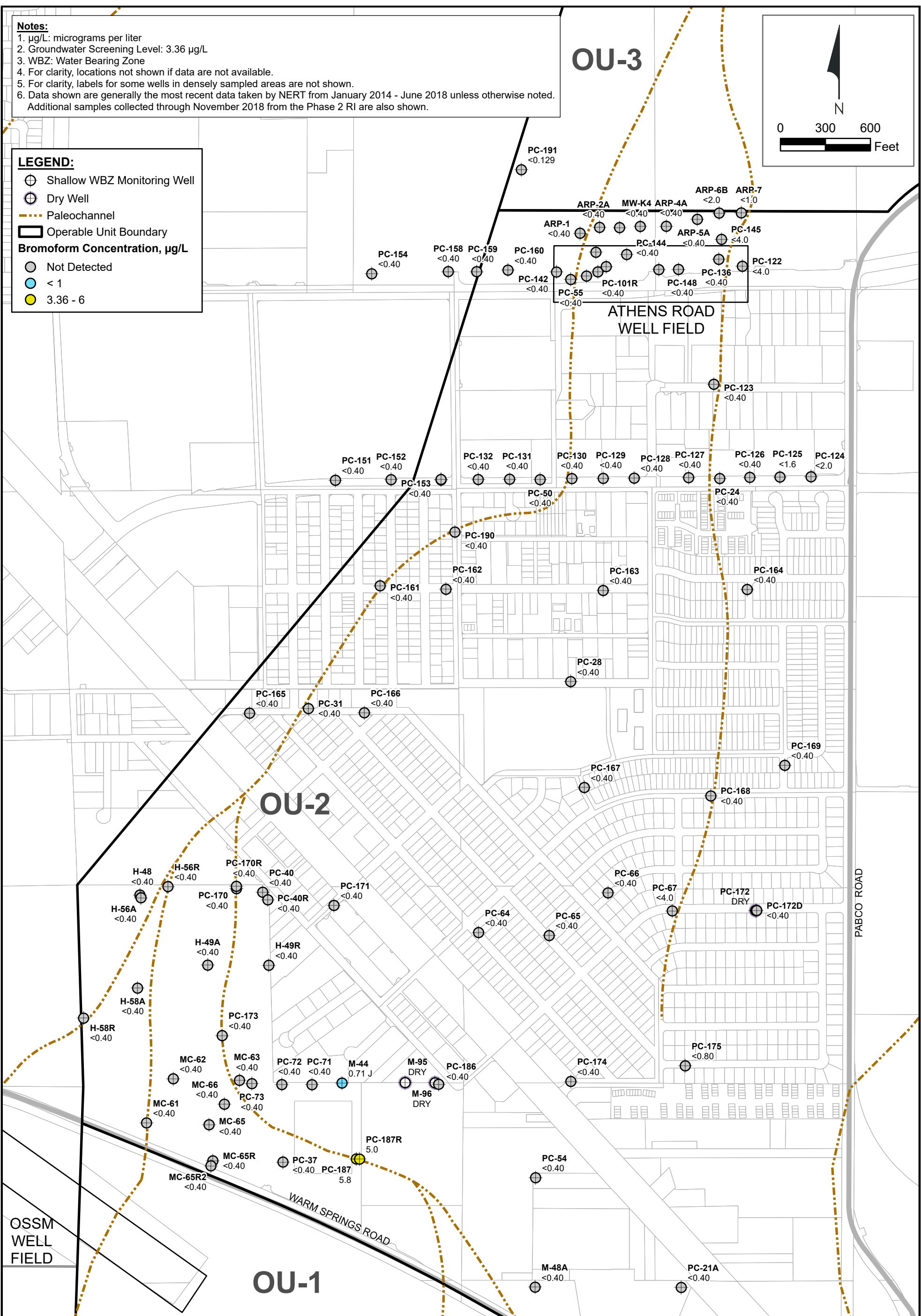
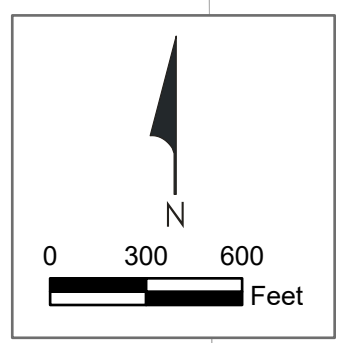
8-18a

Notes:

1. µg/L: micrograms per liter
2. Groundwater Screening Level: 3.36 µg/L
3. WBZ: Water Bearing Zone
4. For clarity, locations not shown if data are not available.
5. For clarity, labels for some wells in densely sampled areas are not shown.
6. Data shown are generally the most recent data taken by NERT from January 2014 - June 2018 unless otherwise noted. Additional samples collected through November 2018 from the Phase 2 RI are also shown.

LEGEND:

- ⊕ Shallow WBZ Monitoring Well
 - ⊖ Dry Well
 - Paleochannel
 - ▭ Operable Unit Boundary
- Bromoform Concentration, µg/L**
- Not Detected
 - < 1
 - 3.36 - 6



Bromoform - Shallow WBZ (0-40 ft bgs)
OU-2 NERT Off-Site Study Area
 Nevada Environmental Response Trust Site, Henderson, Nevada

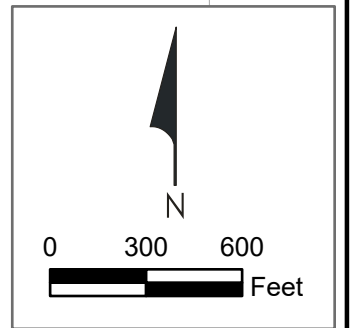
Figure
8-18b

Path: H:\Petomane\NERT\OU-1_OU-2 RI Report\Working_Folder\Groundwater Maps\2022_OU2\figures_2.aprx

Notes:

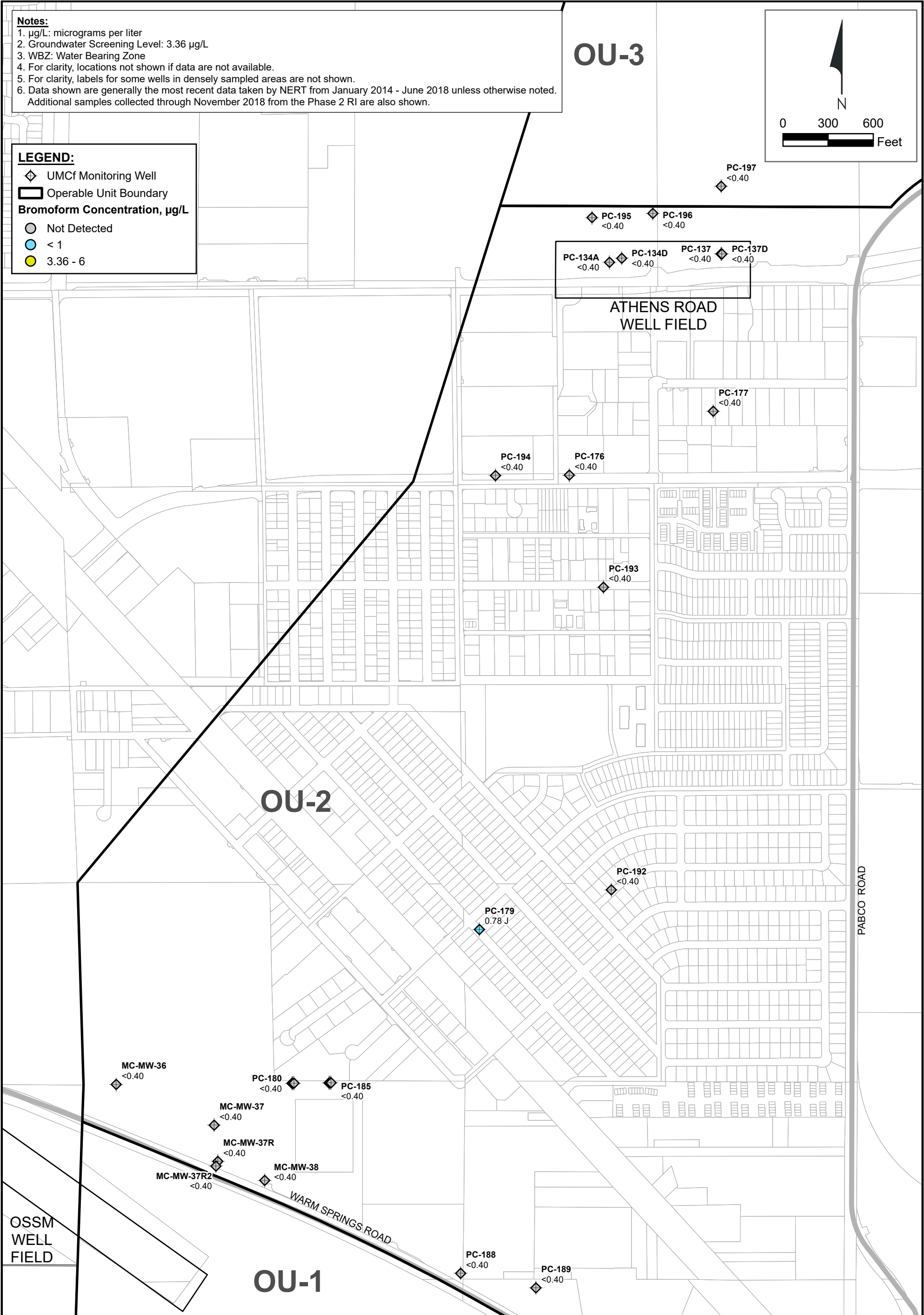
- 1. µg/L: micrograms per liter
- 2. Groundwater Screening Level: 3.36 µg/L
- 3. WBZ: Water Bearing Zone
- 4. For clarity, locations not shown if data are not available.
- 5. For clarity, labels for some wells in densely sampled areas are not shown.
- 6. Data shown are generally the most recent data taken by NERT from January 2014 - June 2018 unless otherwise noted. Additional samples collected through November 2018 from the Phase 2 RI are also shown.

OU-3



LEGEND:

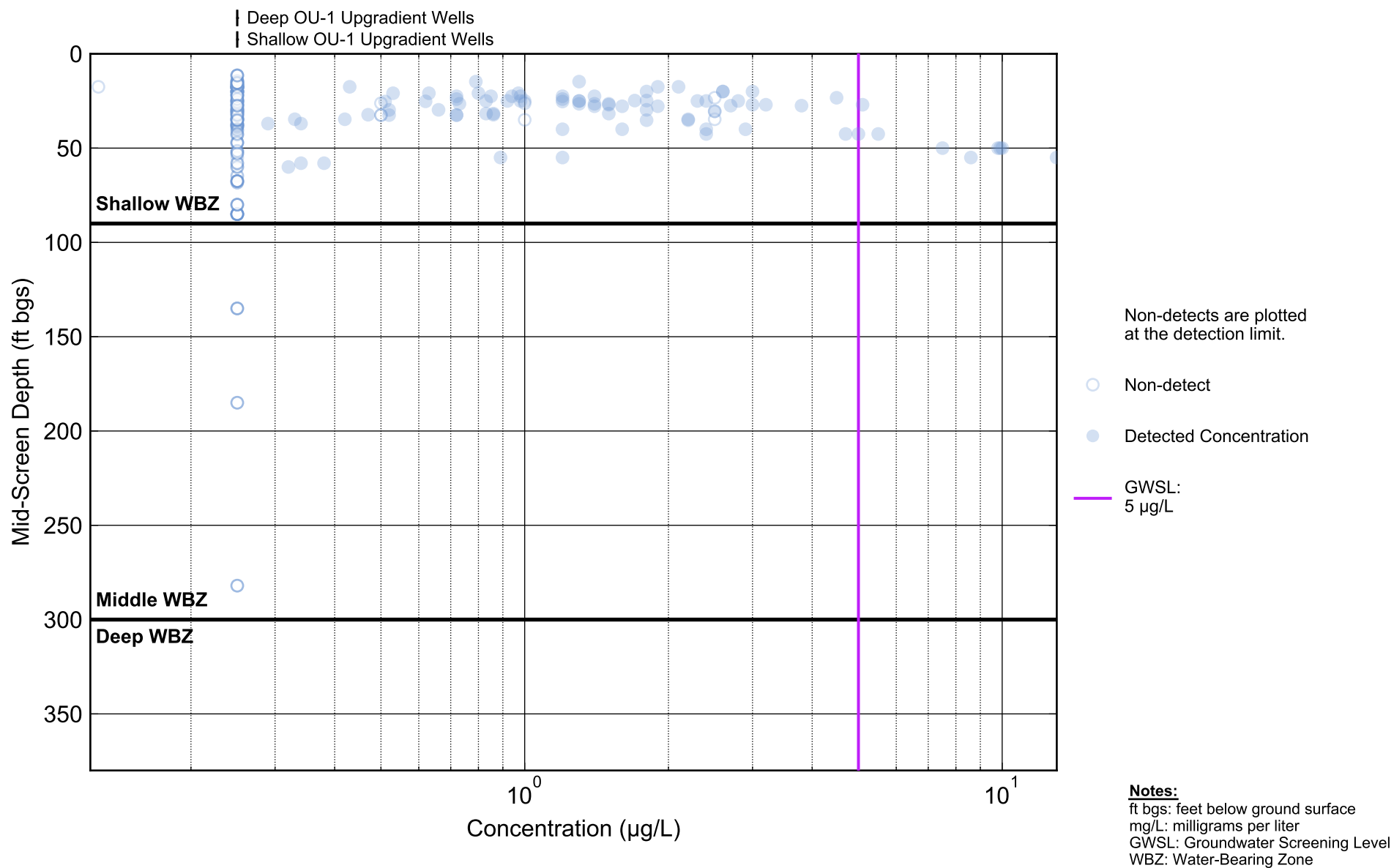
- ◆ UMCf Monitoring Well
 - ▭ Operable Unit Boundary
- Bromoform Concentration, µg/L**
- Not Detected
 - < 1
 - 3.36 - 6



Bromoform - Shallow WBZ (~40-90 ft bgs)
OU-2 NERT Off-Site Study Area
 Nevada Environmental Response Trust Site, Henderson, Nevada

Figure
8-18c

Path: H:\Petomane\NERT\OU-1_OU-2 RI Report\Working_Folder\Groundwater Maps\2022_OU2\figures_2.aprx

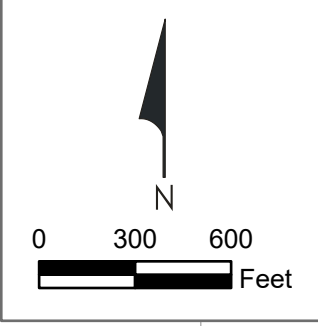


OU-2 Carbon Tetrachloride Groundwater Concentrations vs. Sample Depth
 Nevada Environmental Response Trust Site
 Henderson, Nevada

Figure

8-19a

Notes:
 1. µg/L: micrograms per liter
 2. Groundwater Screening Level: 5 µg/L
 3. WBZ: Water Bearing Zone
 4. For clarity, locations not shown if data are not available.
 5. For clarity, labels for some wells in densely sampled areas are not shown.
 6. Data shown are generally the most recent data taken by NERT from January 2014 - June 2018 unless otherwise noted.
 Additional samples collected through November 2018 from the Phase 2 RI are also shown.

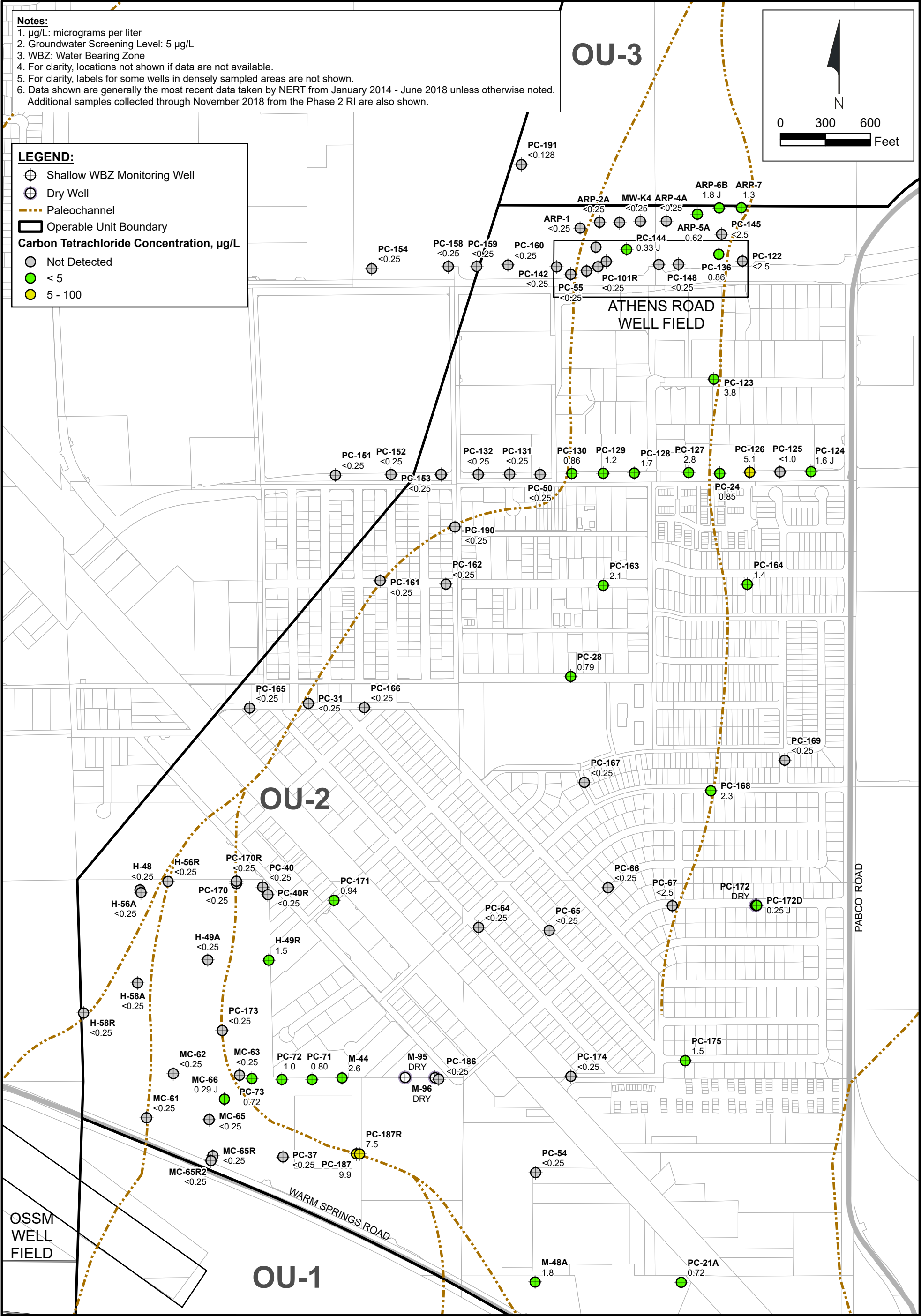


LEGEND:

- ⊕ Shallow WBZ Monitoring Well
- ⊖ Dry Well
- - - Paleochannel
- ▭ Operable Unit Boundary

Carbon Tetrachloride Concentration, µg/L

- Not Detected
- < 5
- 5 - 100



Carbon Tetrachloride - Shallow WBZ (0-40 ft bgs)
OU-2 NERT Off-Site Study Area
 Nevada Environmental Response Trust Site, Henderson, Nevada

Figure
8-19b

Drafter: JC Date: 2023-01-11 Contract Number: 169002 9369 Approved by: Revised:

Path: H:\Petomane\NERT\OU-1_OU-2 RI Report\Working_Folder\Groundwater Maps\2022_OU2figures_2.aprx

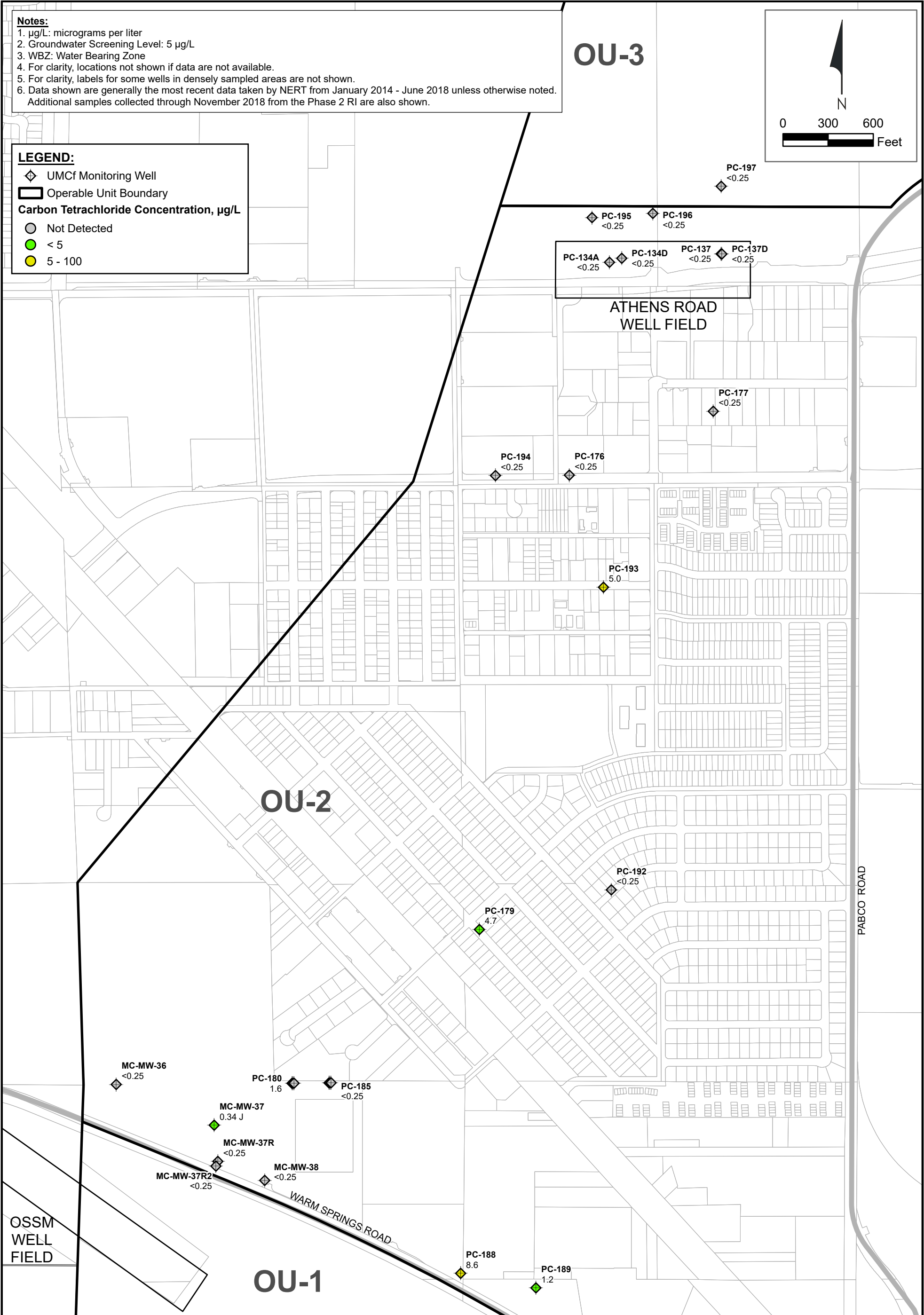
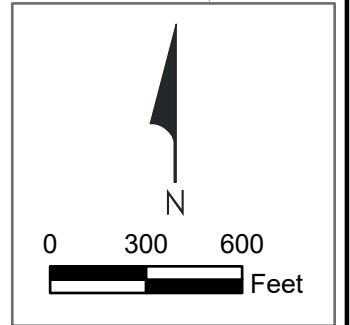
Notes:

1. µg/L: micrograms per liter
2. Groundwater Screening Level: 5 µg/L
3. WBZ: Water Bearing Zone
4. For clarity, locations not shown if data are not available.
5. For clarity, labels for some wells in densely sampled areas are not shown.
6. Data shown are generally the most recent data taken by NERT from January 2014 - June 2018 unless otherwise noted. Additional samples collected through November 2018 from the Phase 2 RI are also shown.

LEGEND:

- ◆ UMCf Monitoring Well
 - ▭ Operable Unit Boundary
- Carbon Tetrachloride Concentration, µg/L**
- Not Detected
 - < 5
 - 5 - 100

OU-3



OU-2

ATHENS ROAD WELL FIELD

OU-1

PABCO ROAD

OSSM WELL FIELD

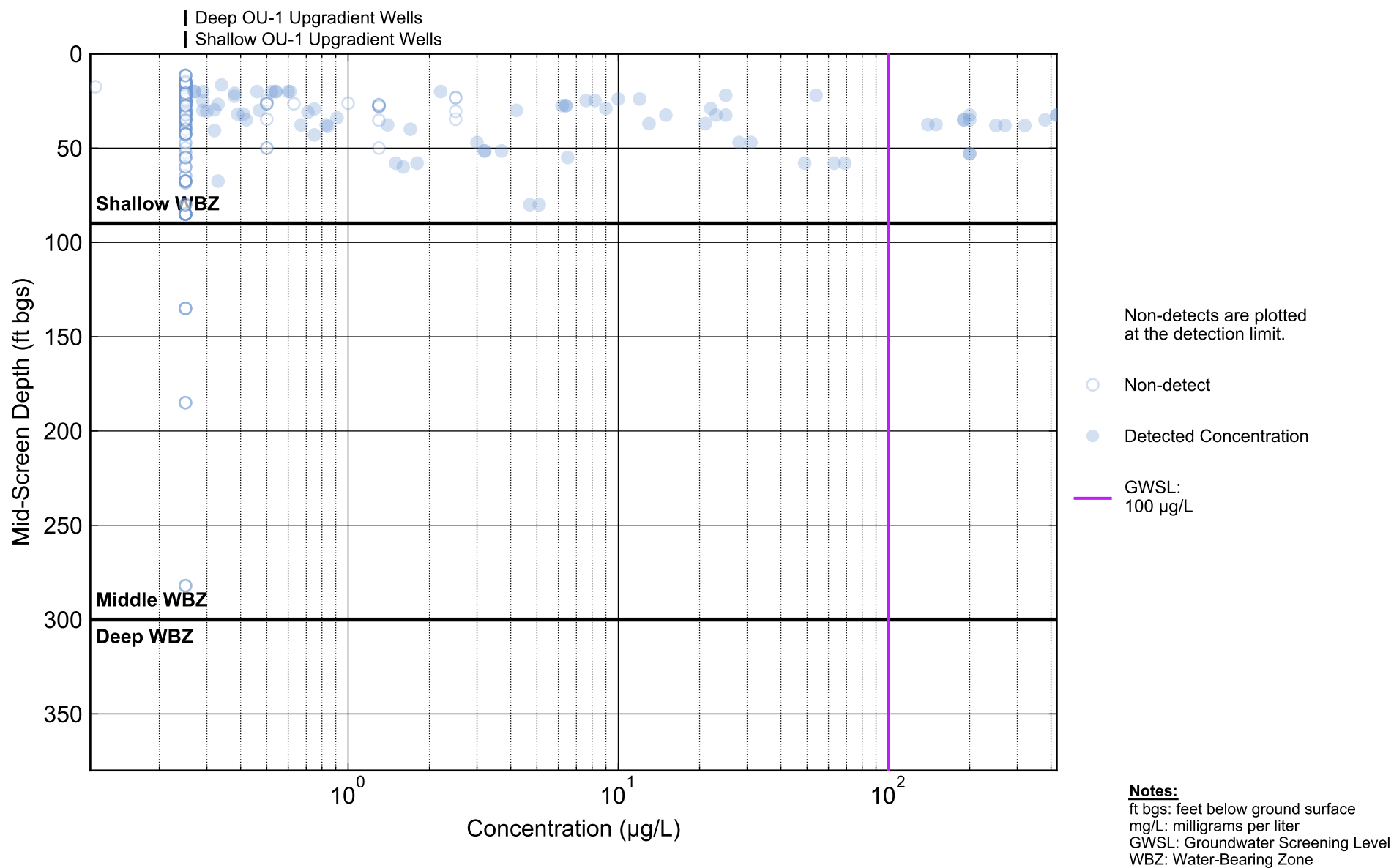
WARM SPRINGS ROAD



Carbon Tetrachloride - Shallow WBZ (~40-90 ft bgs)
OU-2 NERT Off-Site Study Area
 Nevada Environmental Response Trust Site, Henderson, Nevada

Figure
8-19c

Path: H:\LePetomane\NERT\OU-1_OU-2 RI Report\Working_Folder\Groundwater Maps\2022_OU2\figures_2.aprx

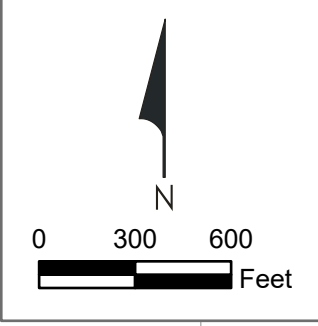


OU-2 Chlorobenzene Groundwater Concentrations vs. Sample Depth
 Nevada Environmental Response Trust Site
 Henderson, Nevada

Figure

8-20a

Notes:
 1. µg/L: micrograms per liter
 2. Groundwater Screening Level: 100 µg/L
 3. WBZ: Water Bearing Zone
 4. For clarity, locations not shown if data are not available.
 5. For clarity, labels for some wells in densely sampled areas are not shown.
 6. Data shown are generally the most recent data taken by NERT from January 2014 - June 2018 unless otherwise noted. Additional samples collected through November 2018 from the Phase 2 RI are also shown.

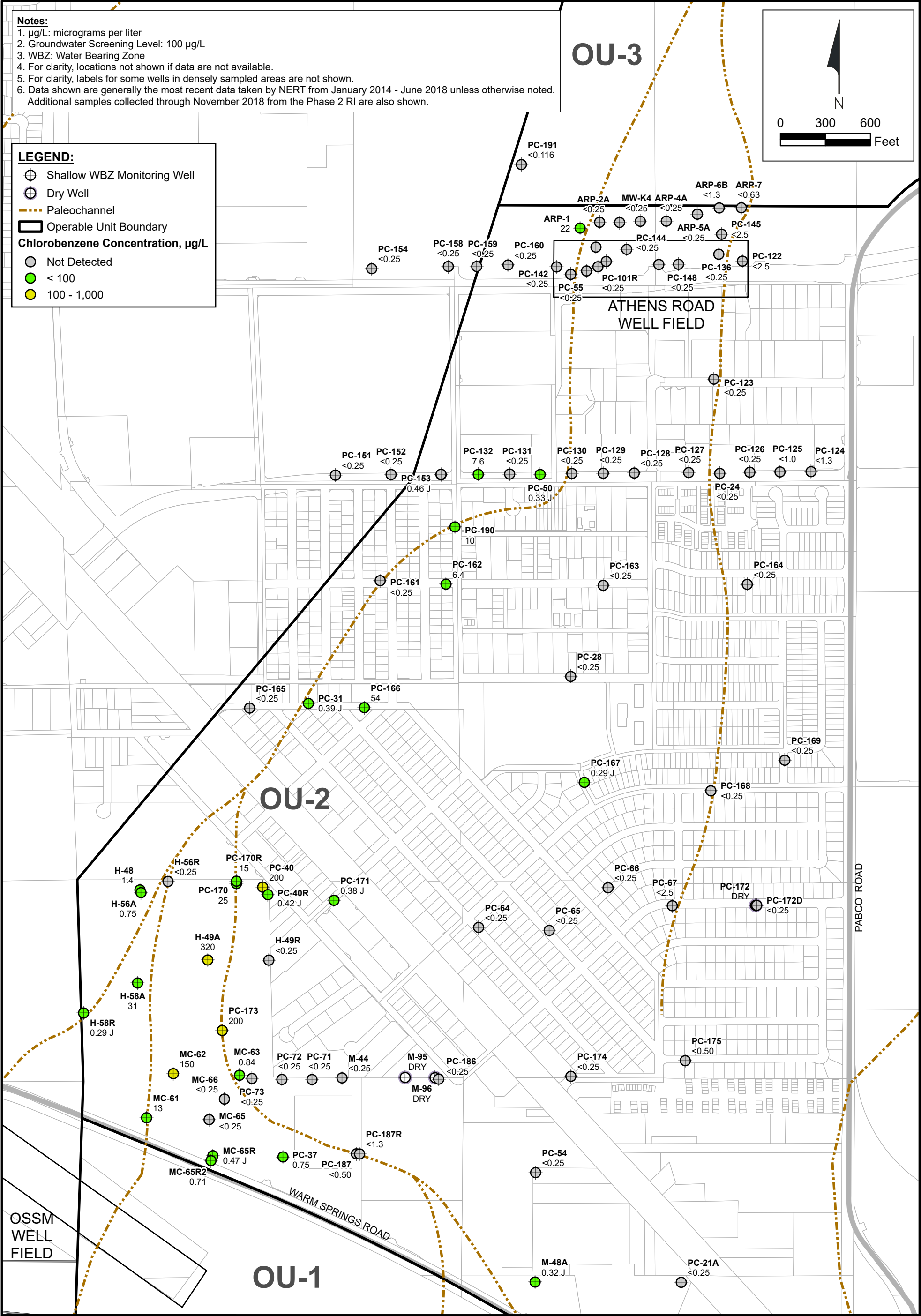


LEGEND:

- ⊕ Shallow WBZ Monitoring Well
- ⊖ Dry Well
- Paleochannel
- ▭ Operable Unit Boundary

Chlorobenzene Concentration, µg/L

- Not Detected
- < 100
- 100 - 1,000



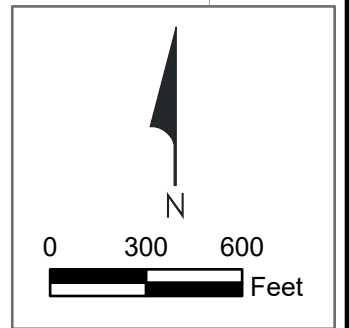
Chlorobenzene - Shallow WBZ (0-40 ft bgs)
OU-2 NERT Off-Site Study Area
 Nevada Environmental Response Trust Site, Henderson, Nevada

Figure
8-20b

Path: H:\Petomane\NERT\OU-1_OU-2 RI Report\Working_Folder\Groundwater Maps\2022_OU2\figures_2.aprx

Notes:
 1. µg/L: micrograms per liter
 2. Groundwater Screening Level: 100 µg/L
 3. WBZ: Water Bearing Zone
 4. For clarity, locations not shown if data are not available.
 5. For clarity, labels for some wells in densely sampled areas are not shown.
 6. Data shown are generally the most recent data taken by NERT from January 2014 - June 2018 unless otherwise noted.
 Additional samples collected through November 2018 from the Phase 2 RI are also shown.

OU-3

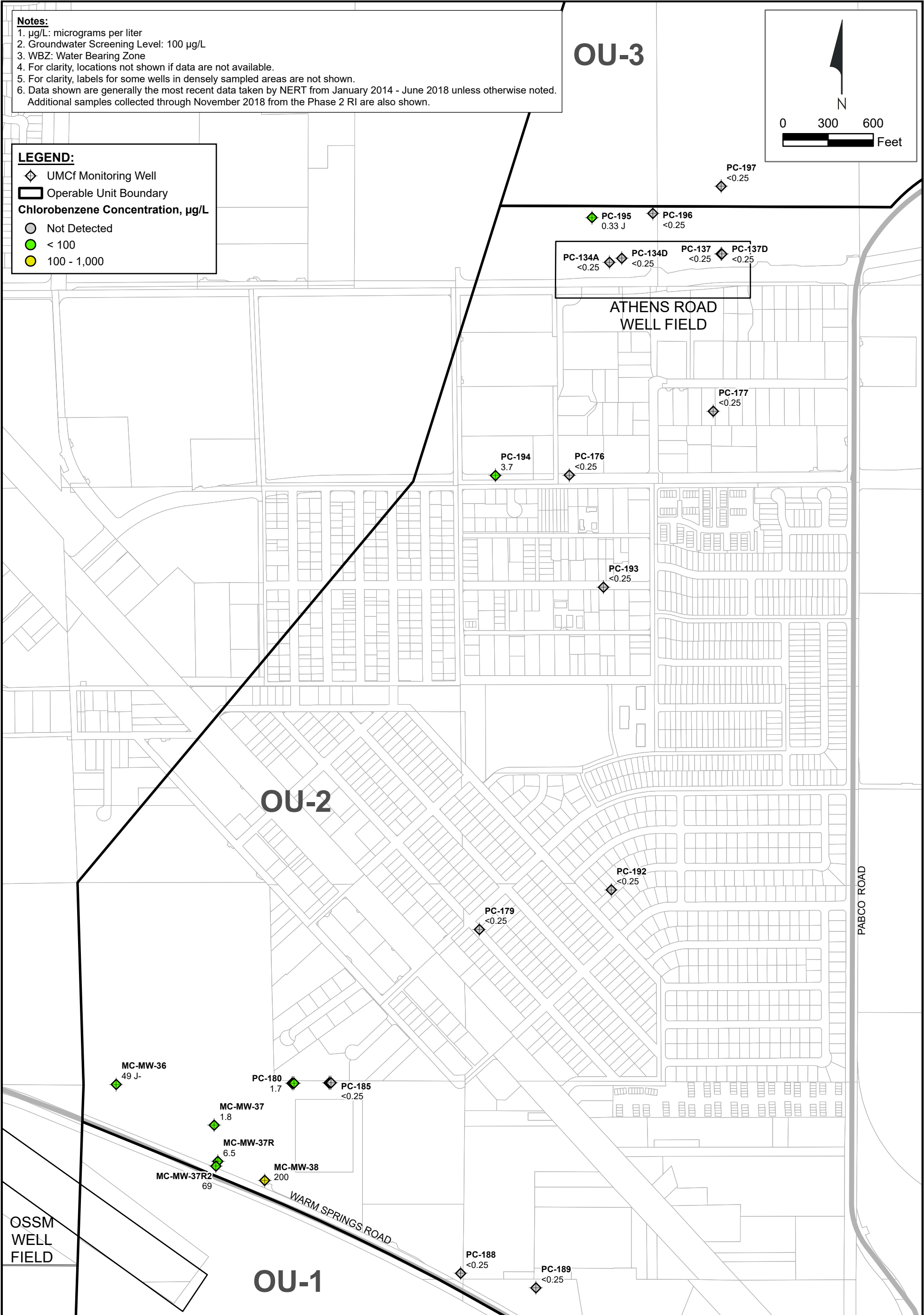


LEGEND:

- ◆ UMCf Monitoring Well
- ▭ Operable Unit Boundary

Chlorobenzene Concentration, µg/L

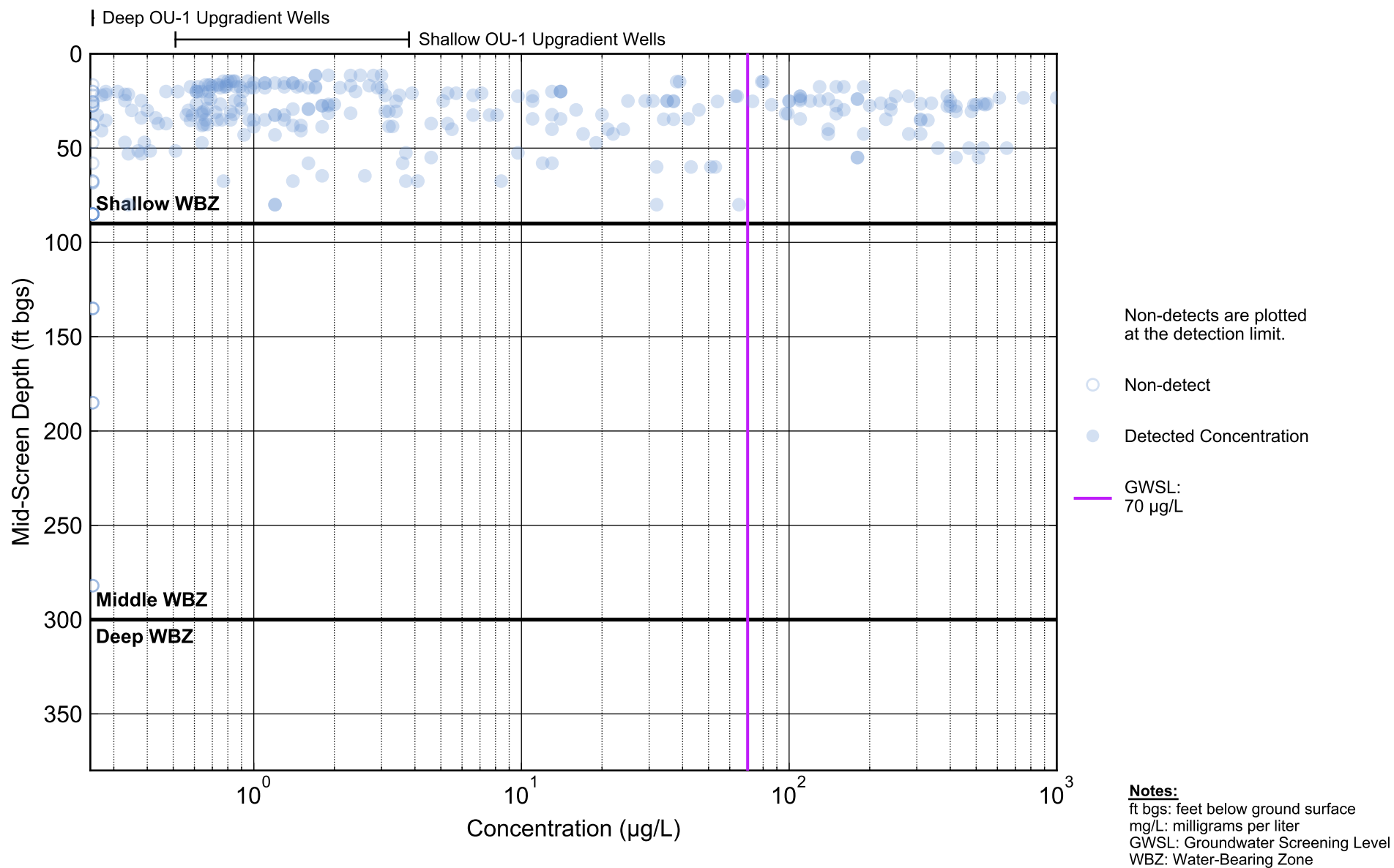
- Not Detected
- < 100
- 100 - 1,000



Chlorobenzene - Shallow WBZ (~40-90 ft bgs)
OU-2 NERT Off-Site Study Area
 Nevada Environmental Response Trust Site, Henderson, Nevada

Figure
8-20c

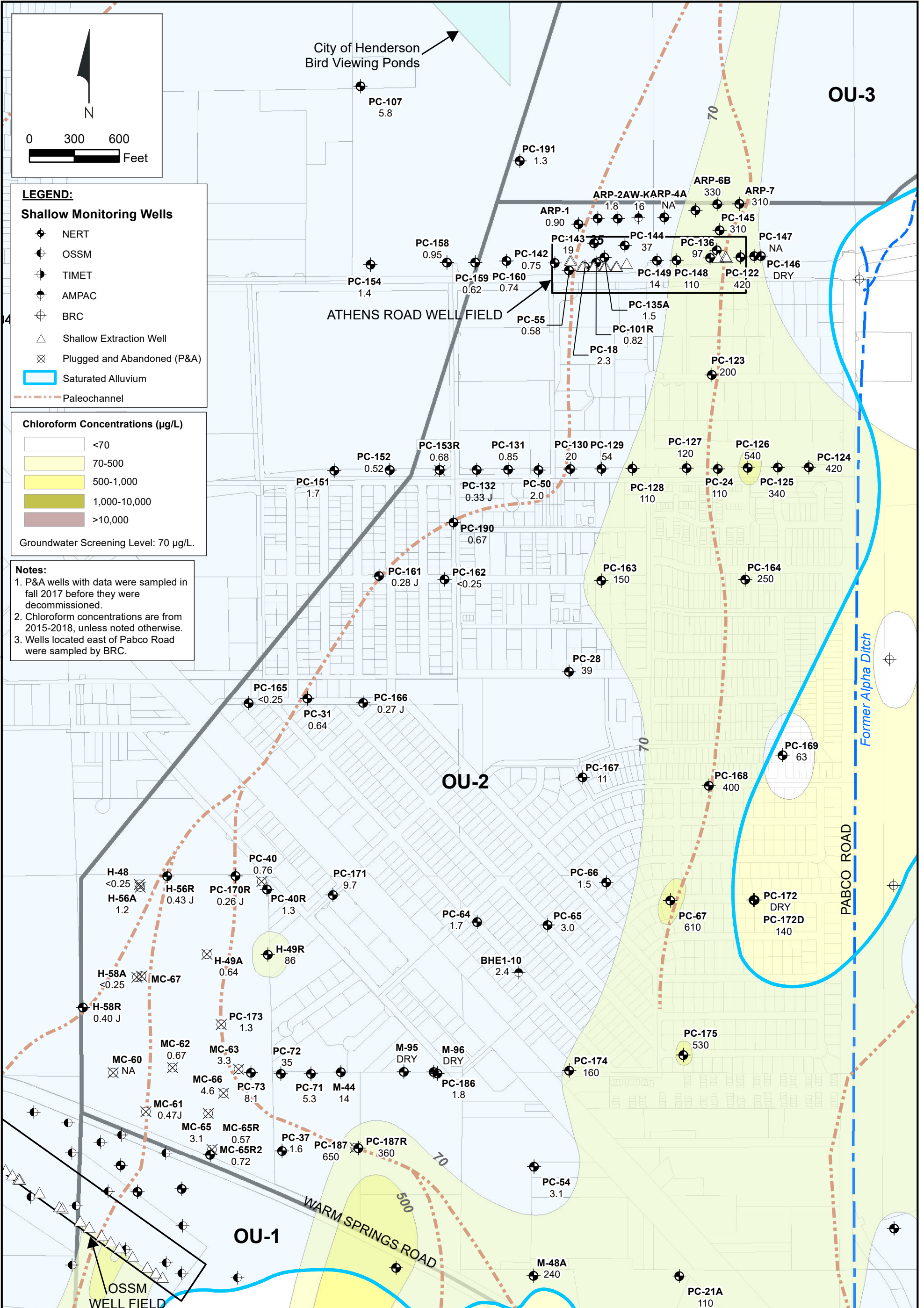
Path: H:\Petomane\NERT\OU-1_OU-2 RI Report\Working_Folder\Groundwater Maps\2022_OU2\figures_2.aprx



OU-2 Chloroform Groundwater Concentrations vs. Sample Depth
 Nevada Environmental Response Trust Site
 Henderson, Nevada

Figure

8-21a

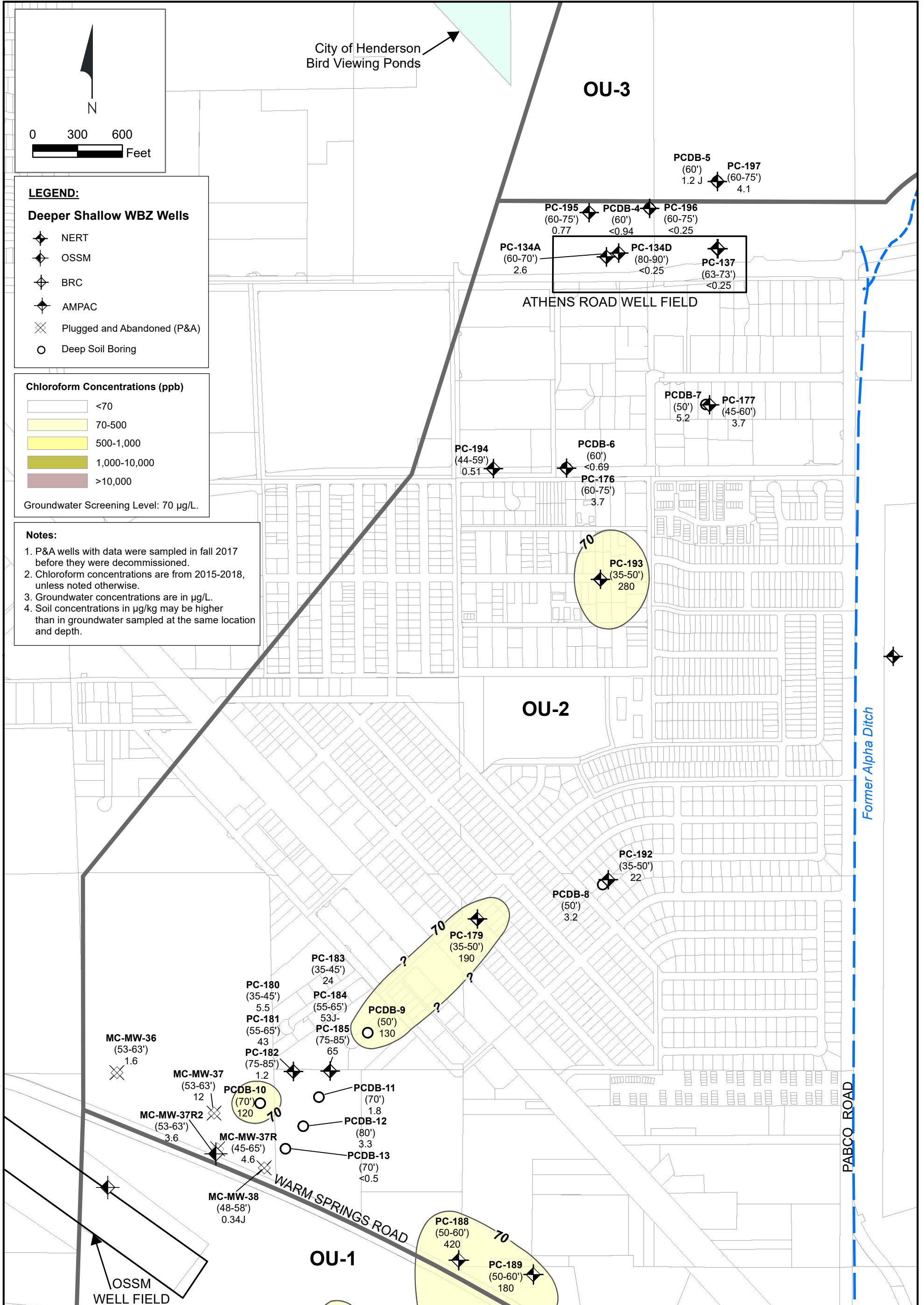


Path: H:\LePei\mane\NERT\RI_Evaluation\GIS\Chemical Maps\Fig 8-20a_Phase 2 RI_Locations_Extended Offsite Study Area_Chloroform_600.mxd



Chloroform Isoconcentration Map, Shallow WBZ (0-40 ft bgs) - OU-2, NERT Off-Site Study Area
 Nevada Environmental Response Trust Site; Henderson, Nevada

Figure
8-21b

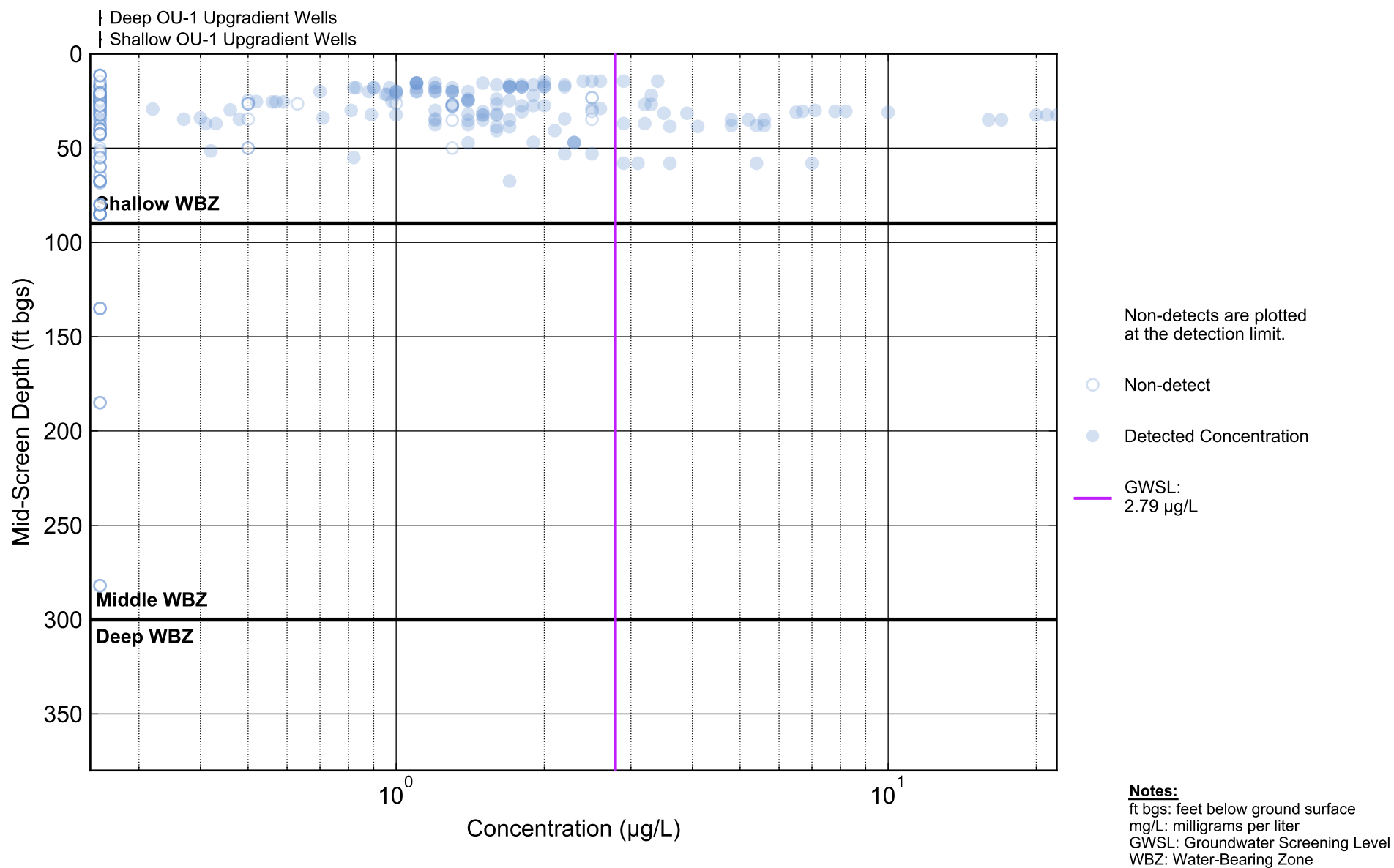


Path: H:\LePeioman\NERT\RI_Evaluation\GIS\Chemical Maps\Fig 8-20b_OU2_NERT Offsite shallow WBZ 45-90ft Chloroform-600.mxd



Chloroform Isoconcentration Map, Shallow WBZ (~40-90 ft bgs) - OU-2, NERT Off-Site Study Area
 Nevada Environmental Response Trust Site; Henderson, Nevada

Figure
8-21c

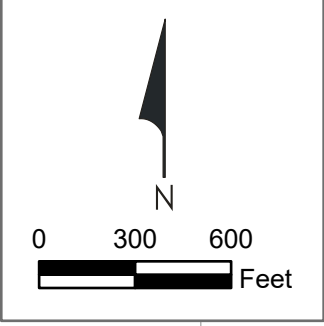


OU-2 1,1-Dichloroethane Groundwater Concentrations vs. Sample Depth
 Nevada Environmental Response Trust Site
 Henderson, Nevada

Figure

8-22a

Notes:
 1. µg/L: micrograms per liter
 2. Groundwater Screening Level: 2.79 µg/L
 3. WBZ: Water Bearing Zone
 4. For clarity, locations not shown if data are not available.
 5. For clarity, labels for some wells in densely sampled areas are not shown.
 6. Data shown are generally the most recent data taken by NERT from January 2014 - June 2018 unless otherwise noted.
 Additional samples collected through November 2018 from the Phase 2 RI are also shown.

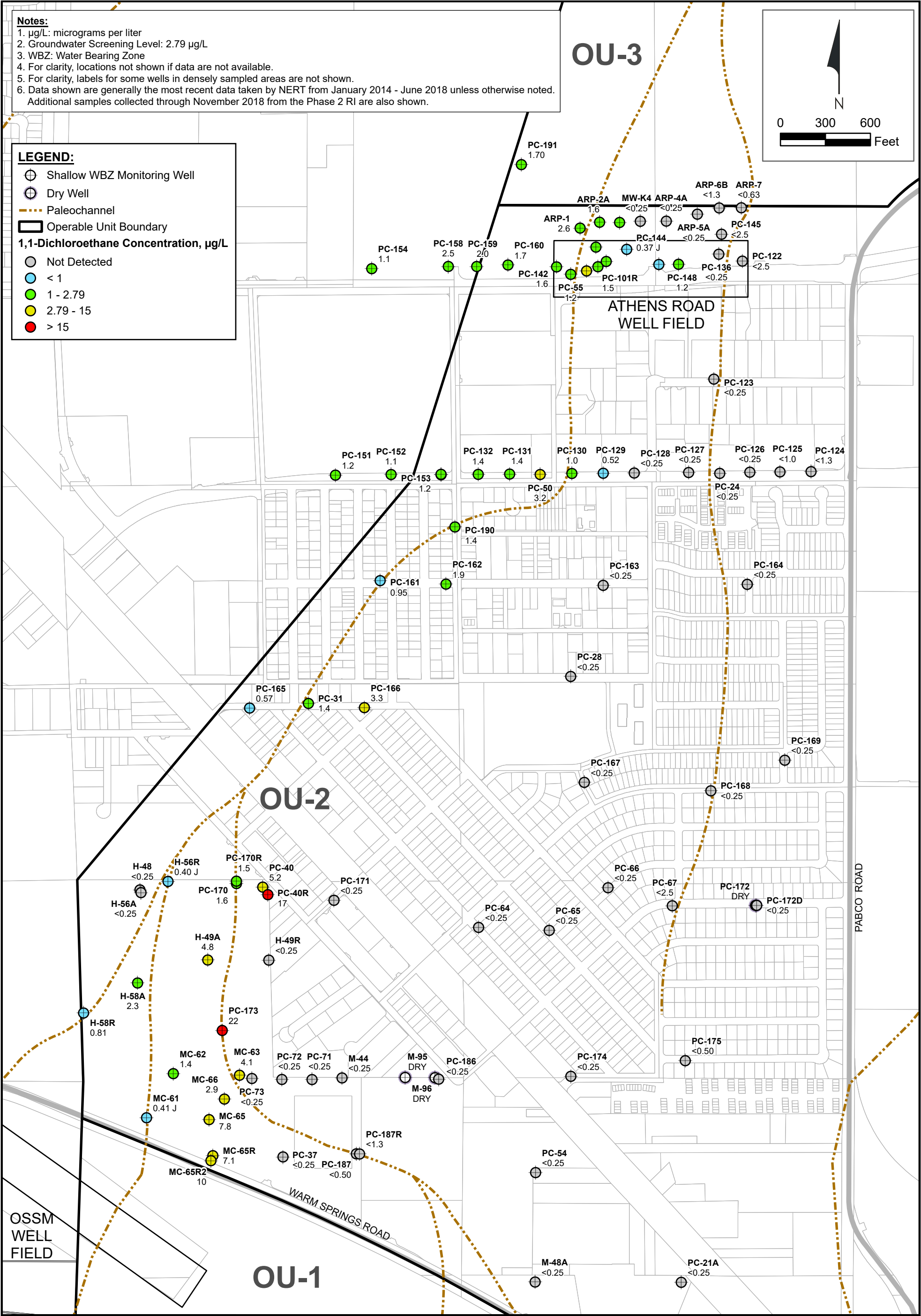


LEGEND:

- ⊕ Shallow WBZ Monitoring Well
- ⊖ Dry Well
- - - Paleochannel
- ▭ Operable Unit Boundary

1,1-Dichloroethane Concentration, µg/L

- Not Detected
- < 1
- 1 - 2.79
- 2.79 - 15
- > 15



1,1-Dichloroethane - Shallow WBZ (0-40 ft bgs)
OU-2 NERT Off-Site Study Area
 Nevada Environmental Response Trust Site, Henderson, Nevada

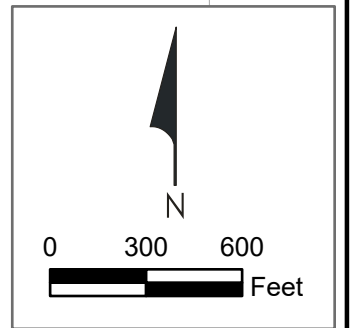
Figure
8-22b

Path: H:\Petomane\NERT\OU-1_OU-2 RI Report\Working_Folder\Groundwater Maps\2022_OU2\figures_2.aprx

Notes:

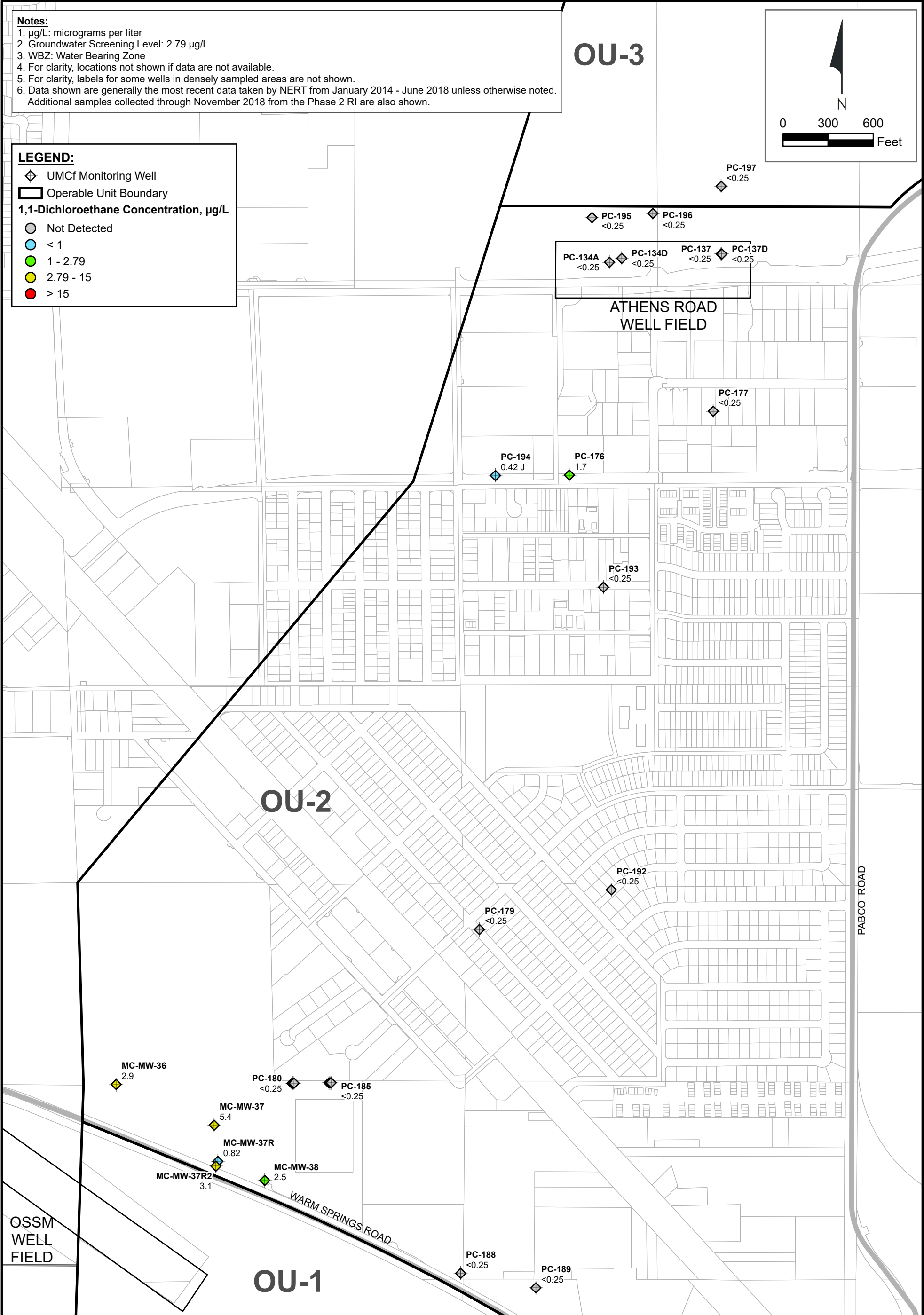
- 1. µg/L: micrograms per liter
- 2. Groundwater Screening Level: 2.79 µg/L
- 3. WBZ: Water Bearing Zone
- 4. For clarity, locations not shown if data are not available.
- 5. For clarity, labels for some wells in densely sampled areas are not shown.
- 6. Data shown are generally the most recent data taken by NERT from January 2014 - June 2018 unless otherwise noted. Additional samples collected through November 2018 from the Phase 2 RI are also shown.

OU-3



LEGEND:

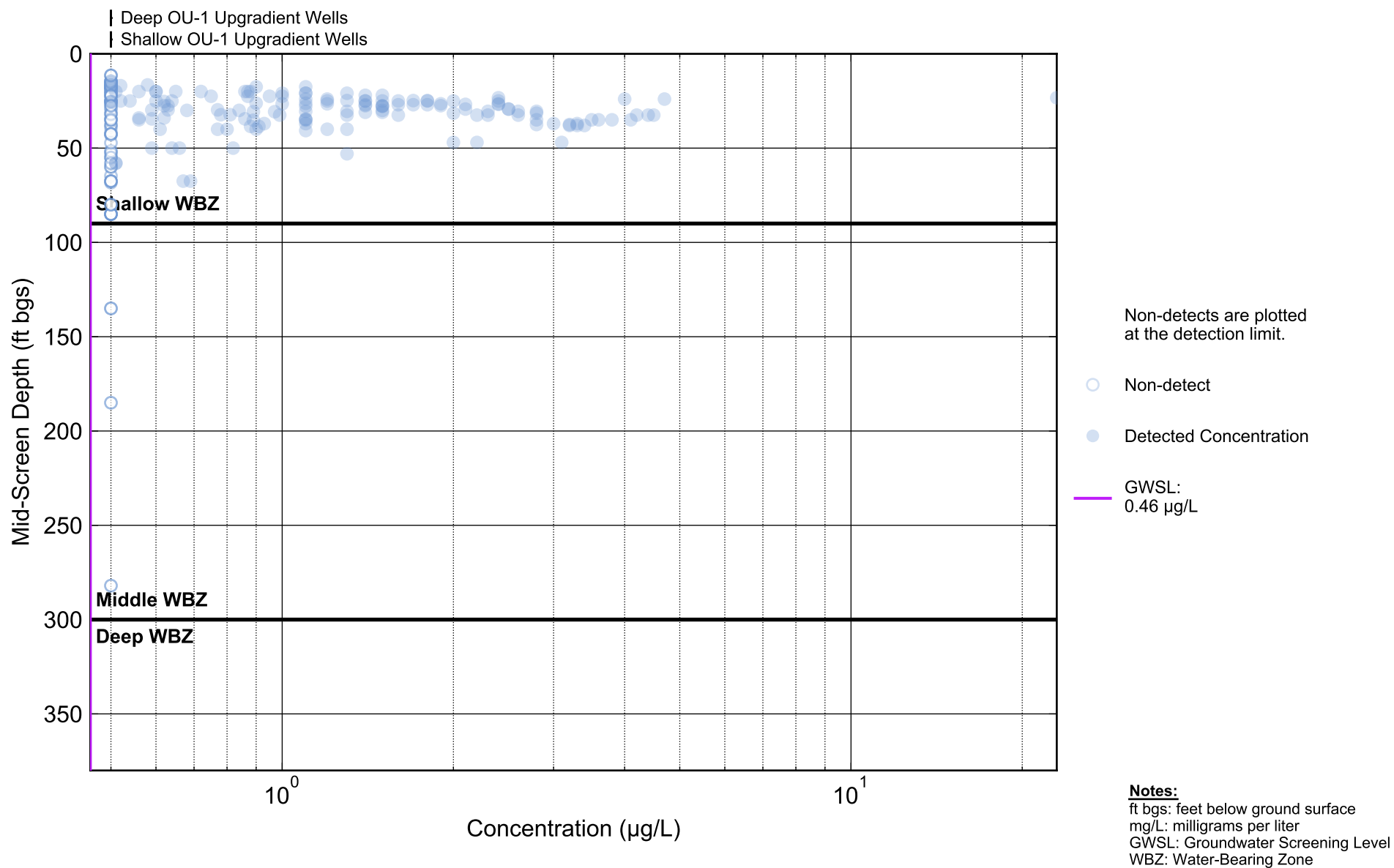
- ◆ UMCf Monitoring Well
 - ▭ Operable Unit Boundary
- 1,1-Dichloroethane Concentration, µg/L**
- Not Detected
 - < 1
 - 1 - 2.79
 - 2.79 - 15
 - > 15



1,1-Dichloroethane - Shallow WBZ (~40-90 ft bgs)
OU-2 NERT Off-Site Study Area
 Nevada Environmental Response Trust Site, Henderson, Nevada

Figure
8-22c

Path: H:\LePetomane\NERT\OU-1_OU-2 RI Report\Working_Folder\Groundwater Maps\2022_OU2\figures_2.aprx



OU-2 1,4-Dioxane Groundwater Concentrations vs. Sample Depth
 Nevada Environmental Response Trust Site
 Henderson, Nevada

Figure

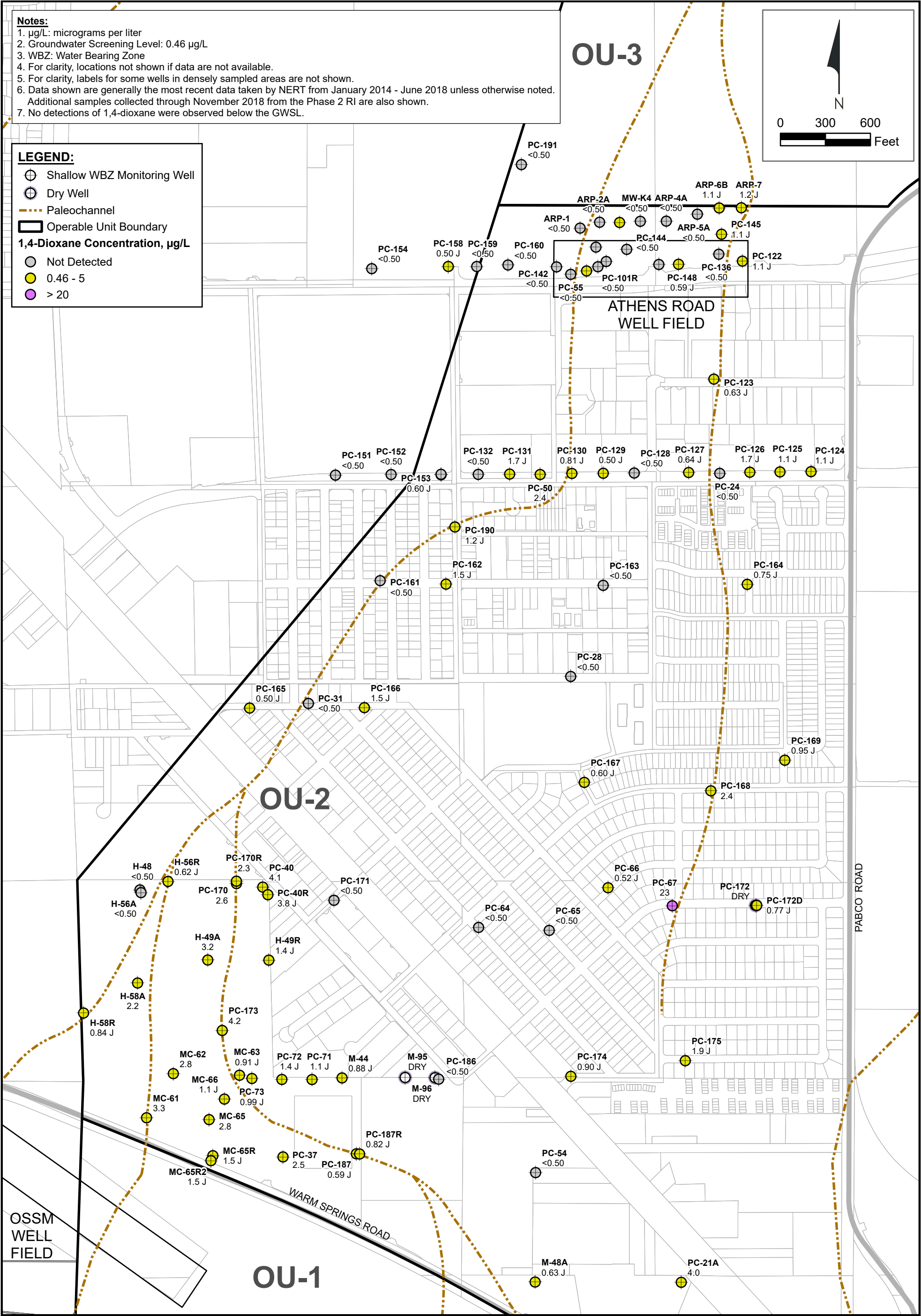
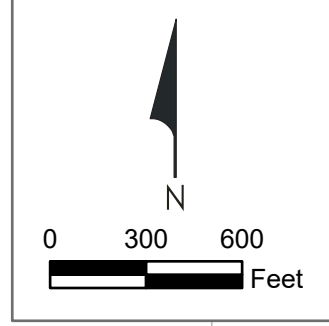
8-23a

Notes:

1. µg/L: micrograms per liter
2. Groundwater Screening Level: 0.46 µg/L
3. WBZ: Water Bearing Zone
4. For clarity, locations not shown if data are not available.
5. For clarity, labels for some wells in densely sampled areas are not shown.
6. Data shown are generally the most recent data taken by NERT from January 2014 - June 2018 unless otherwise noted. Additional samples collected through November 2018 from the Phase 2 RI are also shown.
7. No detections of 1,4-dioxane were observed below the GWSL.

LEGEND:

- ⊕ Shallow WBZ Monitoring Well
 - ⊖ Dry Well
 - Paleochannel
 - ▭ Operable Unit Boundary
- 1,4-Dioxane Concentration, µg/L**
- Not Detected
 - 0.46 - 5
 - > 20



1,4-Dioxane - Shallow WBZ (0-40 ft bgs)
OU-2 NERT Off-Site Study Area
 Nevada Environmental Response Trust Site, Henderson, Nevada

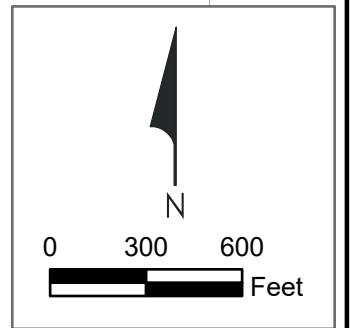
Figure
8-23b

Path: H:\Petomane\NERT\OU-1_OU-2 RI Report\Working_Folder\Groundwater Maps\2022_OU2\figures_2.aprx

Notes:

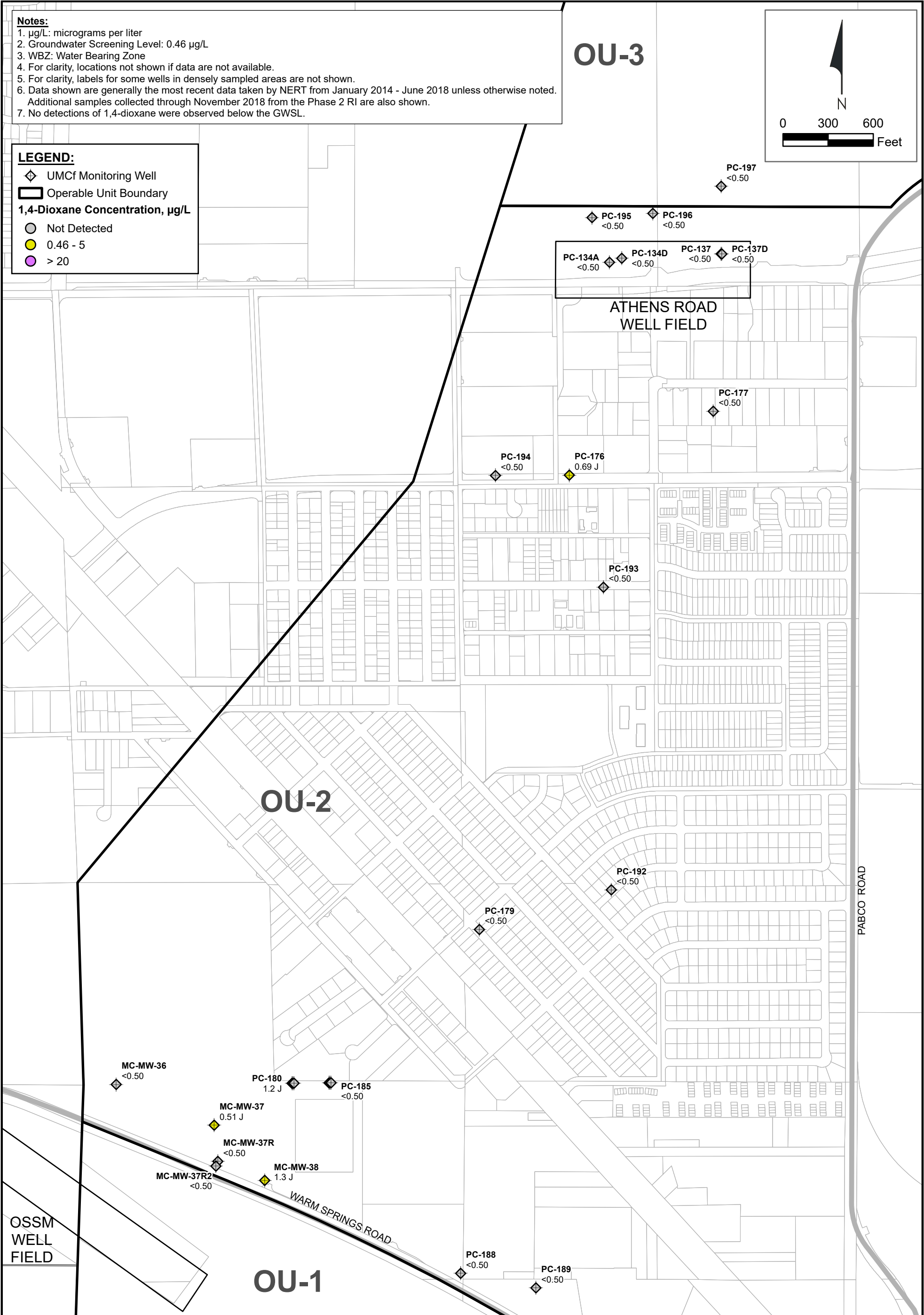
- 1. µg/L: micrograms per liter
- 2. Groundwater Screening Level: 0.46 µg/L
- 3. WBZ: Water Bearing Zone
- 4. For clarity, locations not shown if data are not available.
- 5. For clarity, labels for some wells in densely sampled areas are not shown.
- 6. Data shown are generally the most recent data taken by NERT from January 2014 - June 2018 unless otherwise noted. Additional samples collected through November 2018 from the Phase 2 RI are also shown.
- 7. No detections of 1,4-dioxane were observed below the GWSL.

OU-3



LEGEND:

- ◆ UMCf Monitoring Well
 - ▭ Operable Unit Boundary
- 1,4-Dioxane Concentration, µg/L**
- Not Detected
 - 0.46 - 5
 - > 20



OU-2

OU-1

ATHENS ROAD WELL FIELD

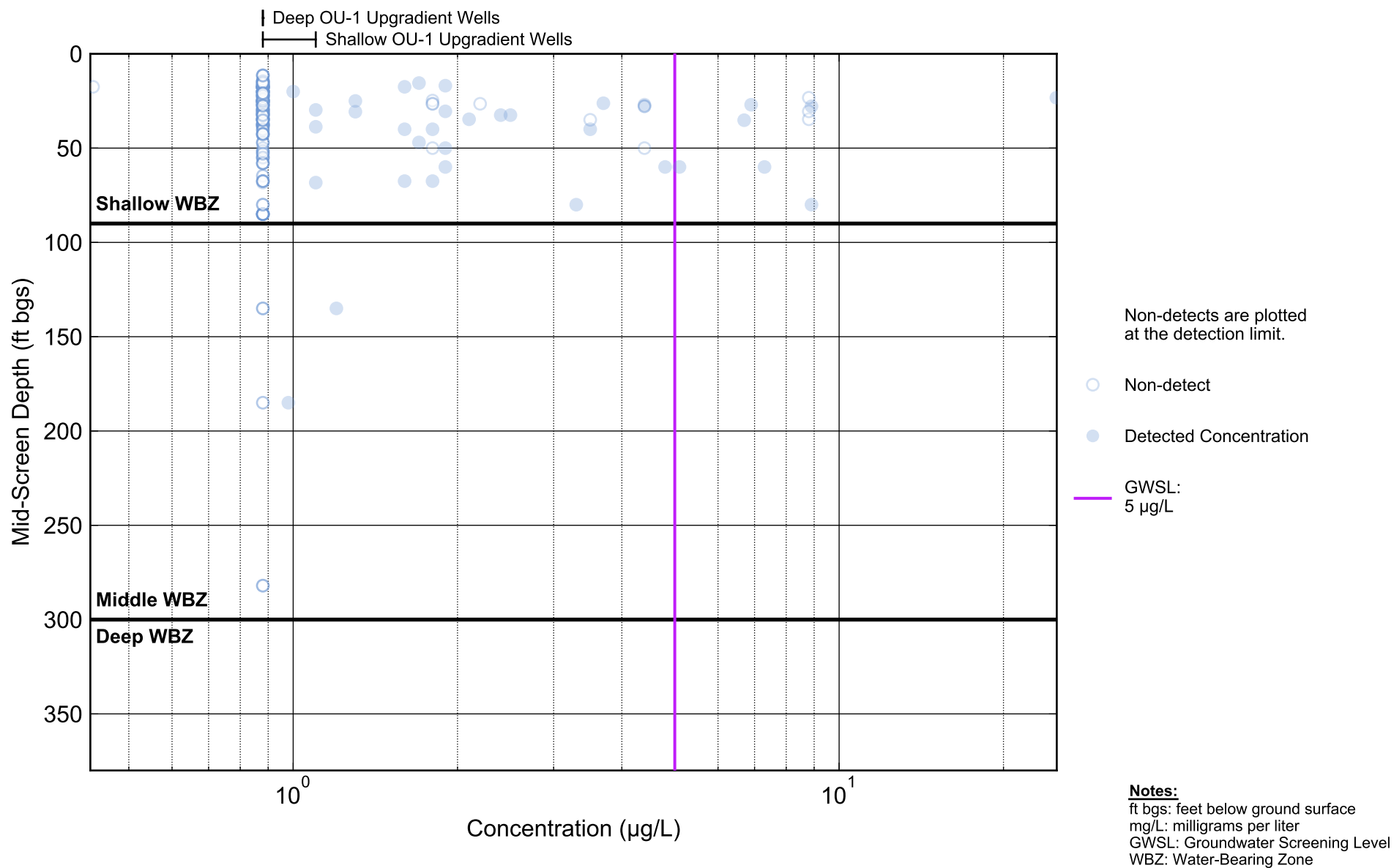
OSSM WELL FIELD



1,4-Dioxane - Shallow WBZ (~40-90 ft bgs)
OU-2 NERT Off-Site Study Area
 Nevada Environmental Response Trust Site, Henderson, Nevada

Figure
8-23c

Path: H:\Petomane\NERT\OU-1_OU-2 RI Report\Working_Folder\Groundwater Maps\2022_OU2\figures_2.aprx

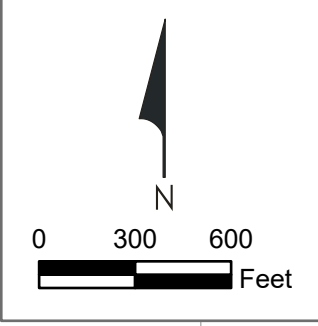


OU-2 Methylene Chloride Groundwater Concentrations vs. Sample Depth
 Nevada Environmental Response Trust Site
 Henderson, Nevada

Figure

8-24a

- Notes:**
1. µg/L: micrograms per liter
 2. Groundwater Screening Level: 5 µg/L
 3. WBZ: Water Bearing Zone
 4. For clarity, locations not shown if data are not available.
 5. For clarity, labels for some wells in densely sampled areas are not shown.
 6. Data shown are generally the most recent data taken by NERT from January 2014 - June 2018 unless otherwise noted. Additional samples collected through November 2018 from the Phase 2 RI are also shown.

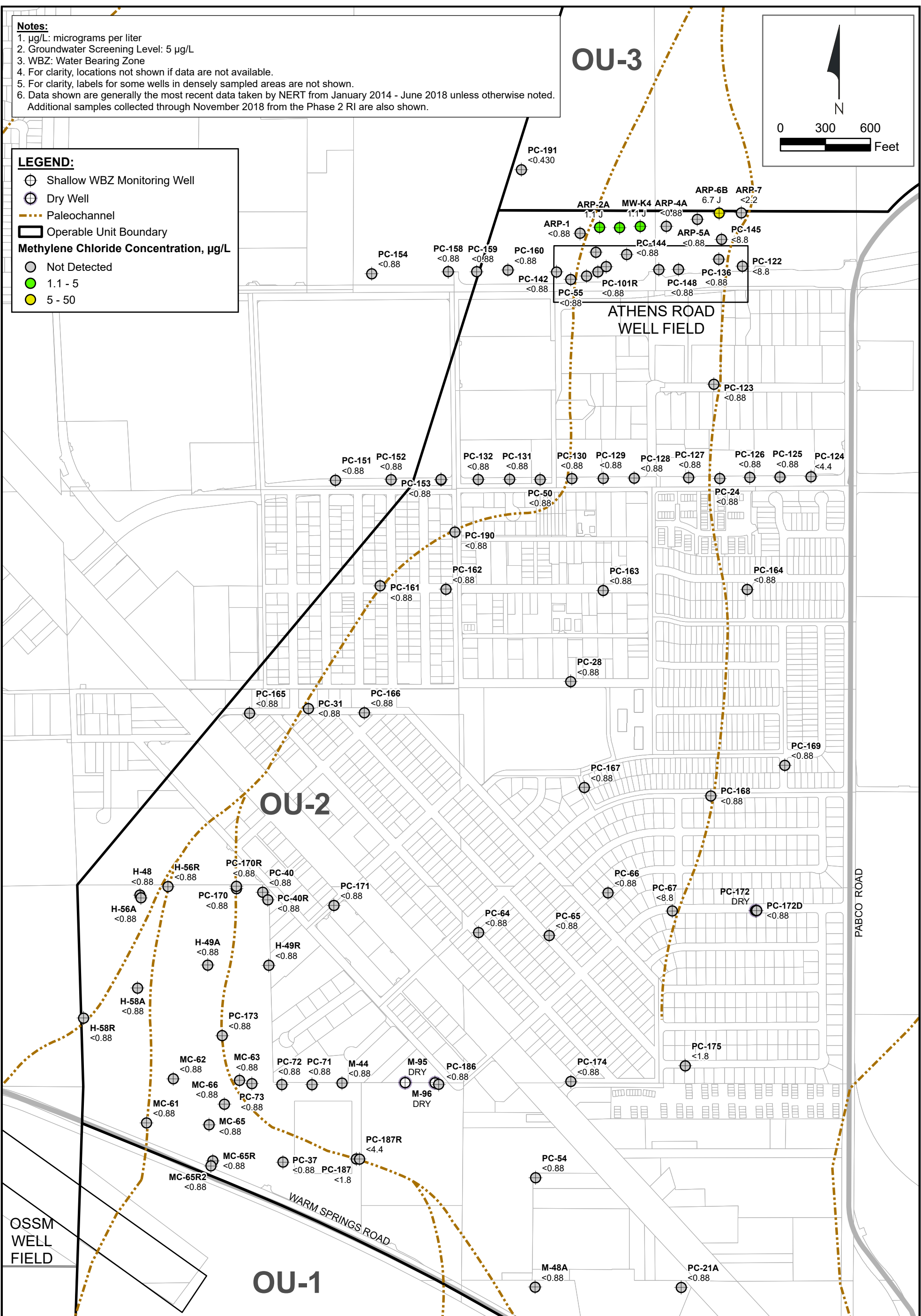


LEGEND:

- ⊕ Shallow WBZ Monitoring Well
- ⊖ Dry Well
- - - Paleochannel
- ▭ Operable Unit Boundary

Methylene Chloride Concentration, µg/L

- Not Detected
- 1.1 - 5
- 5 - 50



Methylene Chloride - Shallow WBZ (0-40 ft bgs)
OU-2 NERT Off-Site Study Area
 Nevada Environmental Response Trust Site, Henderson, Nevada

Figure
8-24b

Path: H:\Petomane\NERT\OU-1_OU-2 RI Report\Working_Folder\Groundwater Maps\2022_OU2\figures_2.aprx

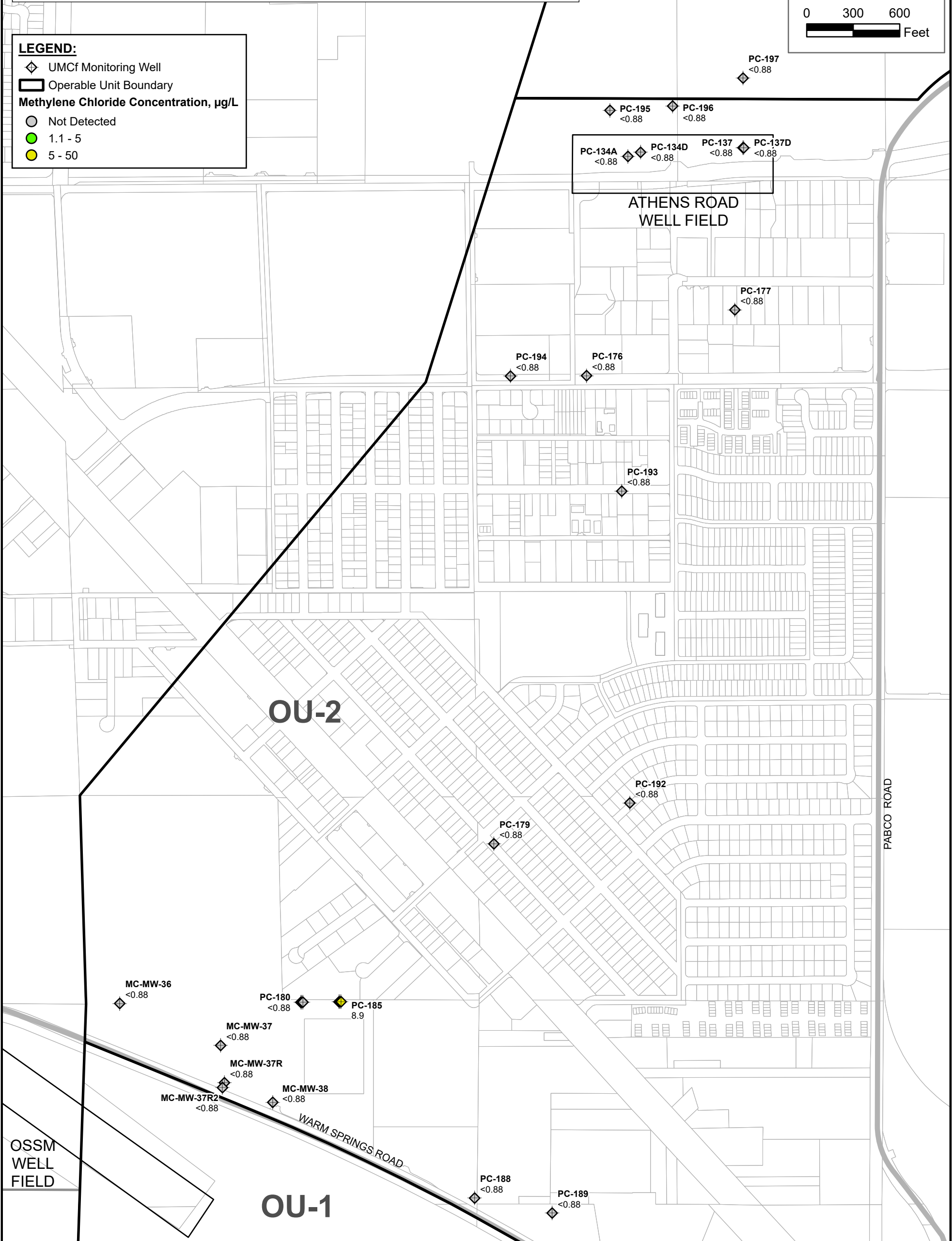
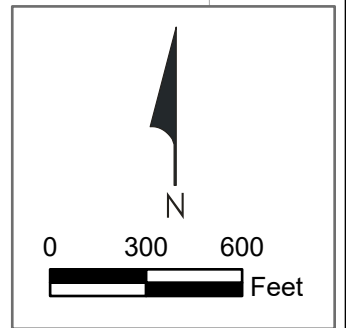
Notes:

- 1. µg/L: micrograms per liter
- 2. Groundwater Screening Level: 5 µg/L
- 3. WBZ: Water Bearing Zone
- 4. For clarity, locations not shown if data are not available.
- 5. For clarity, labels for some wells in densely sampled areas are not shown.
- 6. Data shown are generally the most recent data taken by NERT from January 2014 - June 2018 unless otherwise noted. Additional samples collected through November 2018 from the Phase 2 RI are also shown.

LEGEND:

- ◆ UMCf Monitoring Well
 - ▭ Operable Unit Boundary
- Methylene Chloride Concentration, µg/L**
- Not Detected
 - 1.1 - 5
 - 5 - 50

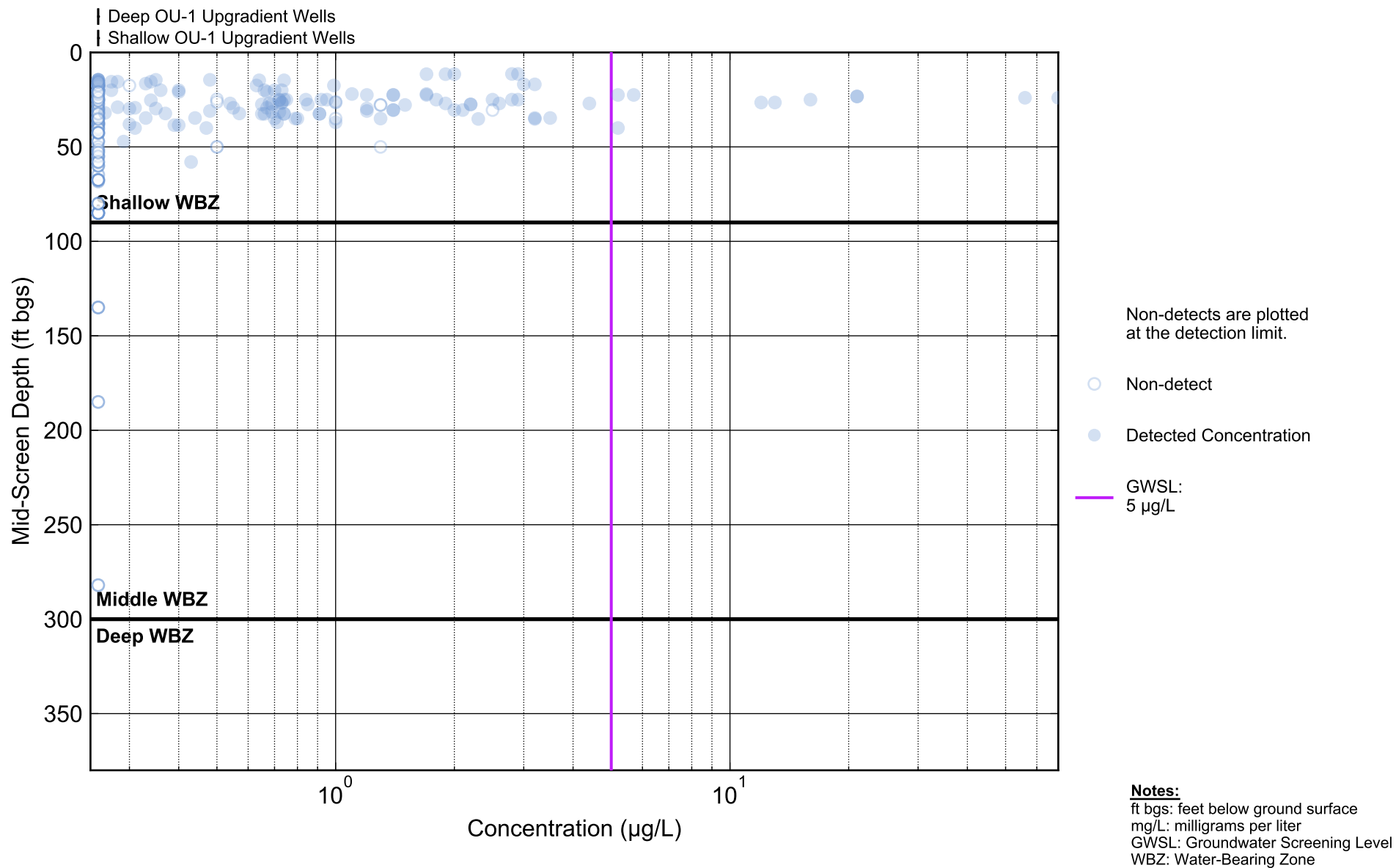
OU-3



Methylene Chloride - Shallow WBZ (~40-90 ft bgs)
OU-2 NERT Off-Site Study Area
 Nevada Environmental Response Trust Site, Henderson, Nevada

Figure
8-24c

Path: H:\Petomane\NERT\OU-1_OU-2 RI Report\Working_Folder\Groundwater Maps\2022_OU2figures_2.aprx



OU-2 Tetrachloroethene Groundwater Concentrations vs. Sample Depth
 Nevada Environmental Response Trust Site
 Henderson, Nevada

Figure

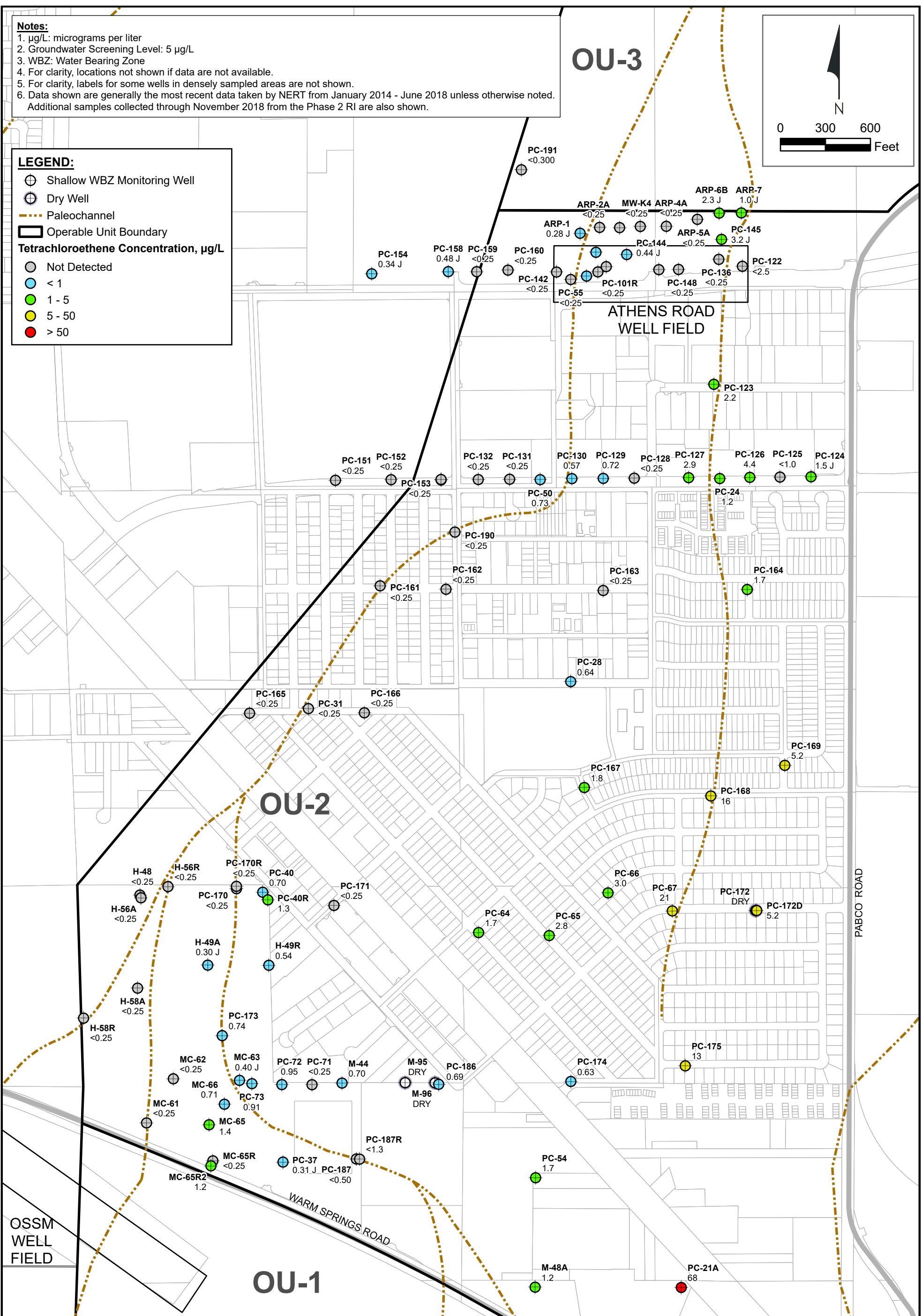
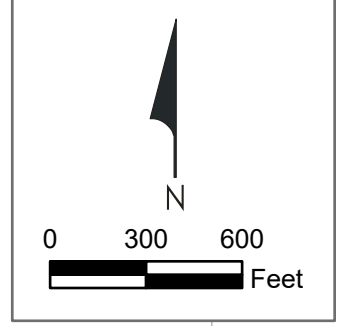
8-25a

Notes:

1. µg/L: micrograms per liter
2. Groundwater Screening Level: 5 µg/L
3. WBZ: Water Bearing Zone
4. For clarity, locations not shown if data are not available.
5. For clarity, labels for some wells in densely sampled areas are not shown.
6. Data shown are generally the most recent data taken by NERT from January 2014 - June 2018 unless otherwise noted. Additional samples collected through November 2018 from the Phase 2 RI are also shown.

LEGEND:

- ⊕ Shallow WBZ Monitoring Well
 - ⊖ Dry Well
 - Paleochannel
 - ▭ Operable Unit Boundary
- Tetrachloroethene Concentration, µg/L**
- Not Detected
 - < 1
 - 1 - 5
 - 5 - 50
 - > 50



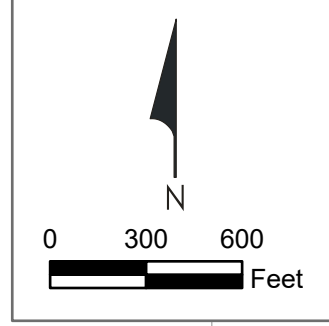
Tetrachloroethene - Shallow WBZ (0-40 ft bgs)
OU-2 NERT Off-Site Study Area
 Nevada Environmental Response Trust Site, Henderson, Nevada

Figure
8-25b

Path: H:\Petomane\NERT\OU-1_OU-2 RI Report\Working_Folder\Groundwater Maps\2022_OU2\figures_2.aprx

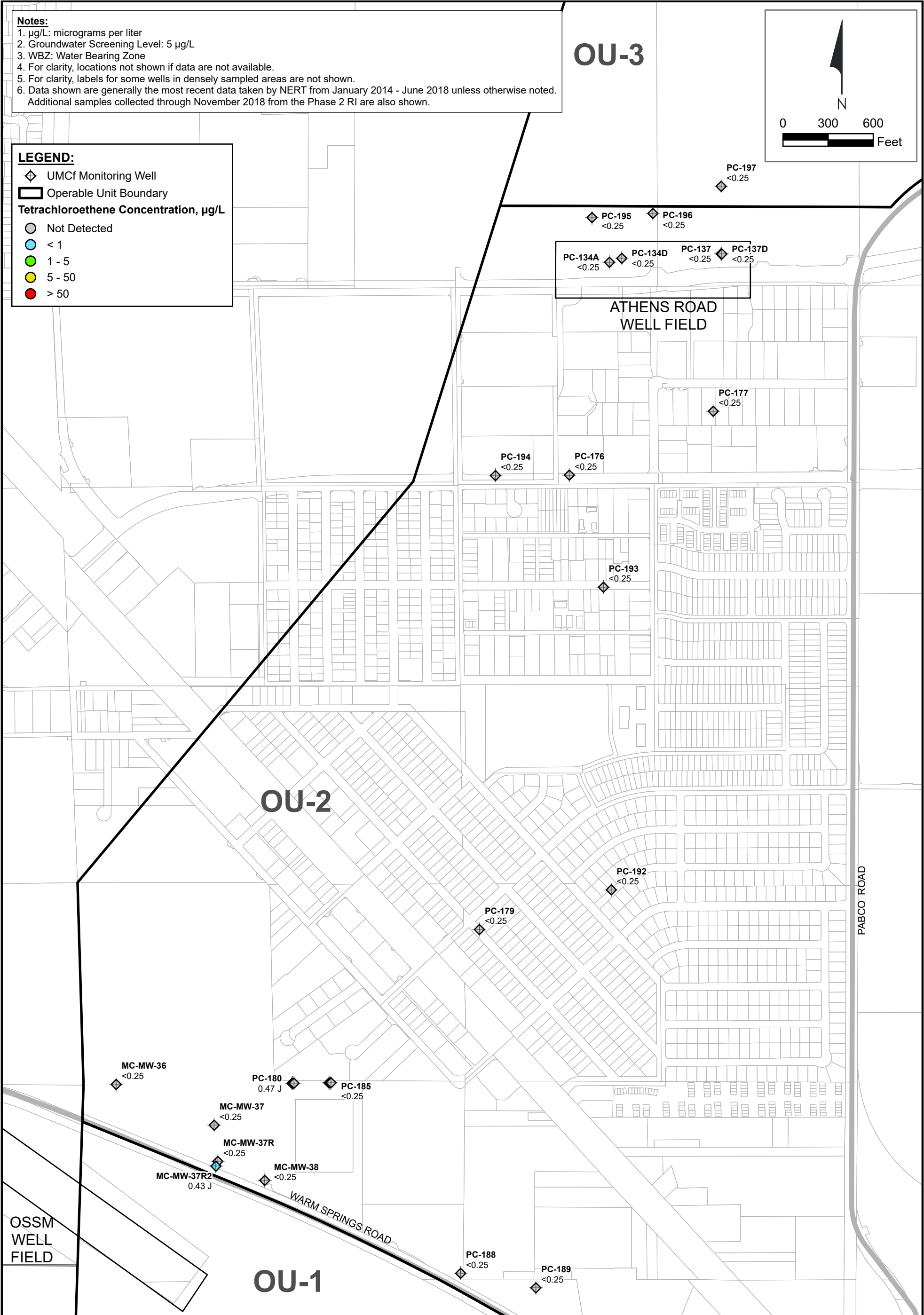
Notes:

1. µg/L: micrograms per liter
2. Groundwater Screening Level: 5 µg/L
3. WBZ: Water Bearing Zone
4. For clarity, locations not shown if data are not available.
5. For clarity, labels for some wells in densely sampled areas are not shown.
6. Data shown are generally the most recent data taken by NERT from January 2014 - June 2018 unless otherwise noted. Additional samples collected through November 2018 from the Phase 2 RI are also shown.



LEGEND:

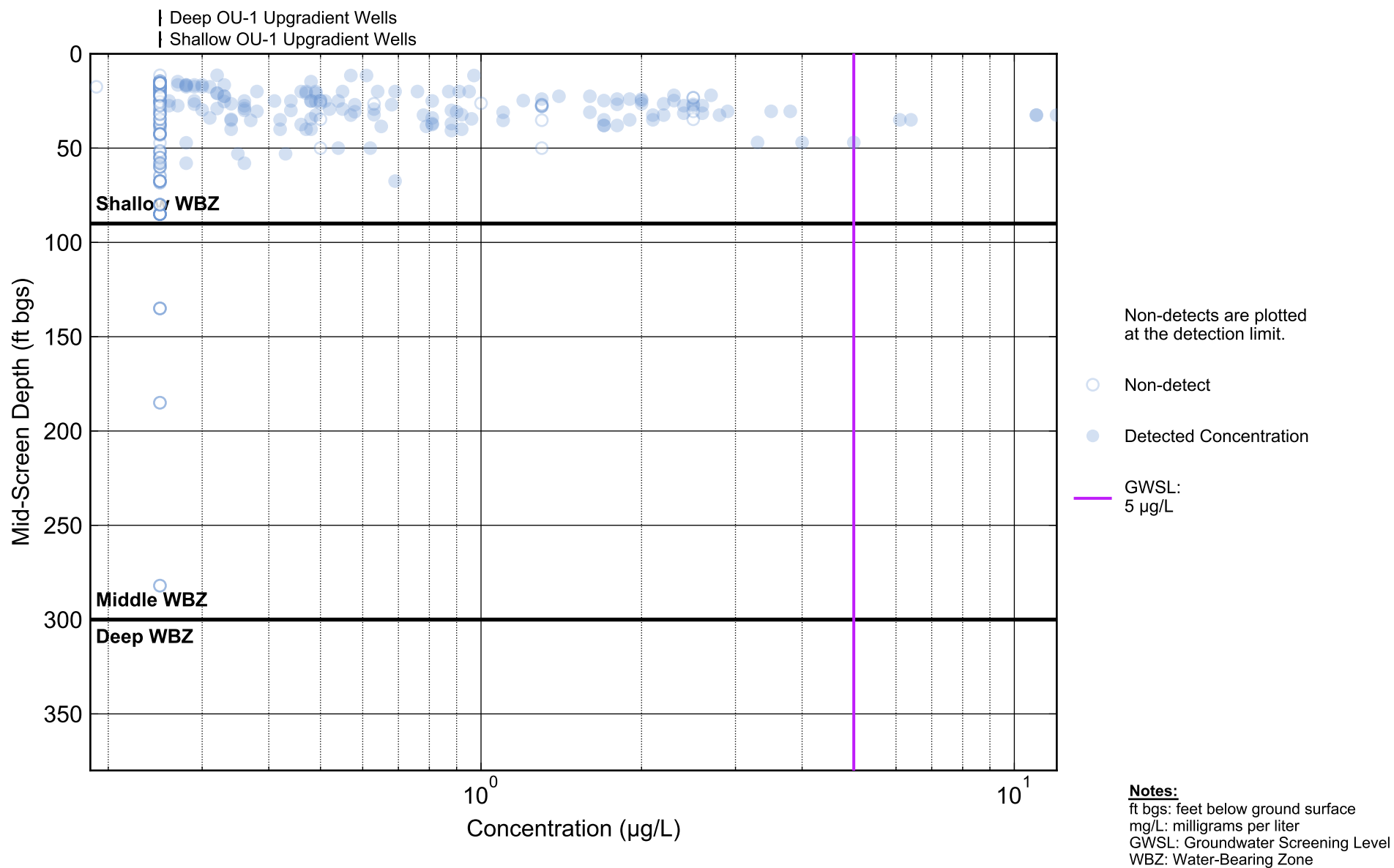
- ◆ UMCf Monitoring Well
 - ▭ Operable Unit Boundary
- Tetrachloroethene Concentration, µg/L**
- Not Detected
 - < 1
 - 1 - 5
 - 5 - 50
 - > 50



Tetrachloroethene - Shallow WBZ (~40-90 ft bgs)
OU-2 NERT Off-Site Study Area
 Nevada Environmental Response Trust Site, Henderson, Nevada

Figure
8-25c

Path: H:\Petomane\NERT\OU-1_OU-2 RI Report\Working_Folder\Groundwater Maps\2022_OU2figures_2.aprx



OU-2 Trichloroethene Groundwater Concentrations vs. Sample Depth
 Nevada Environmental Response Trust Site
 Henderson, Nevada

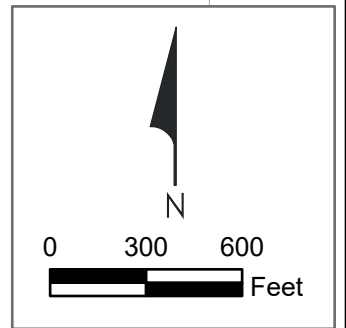
Figure

8-26a

Notes:

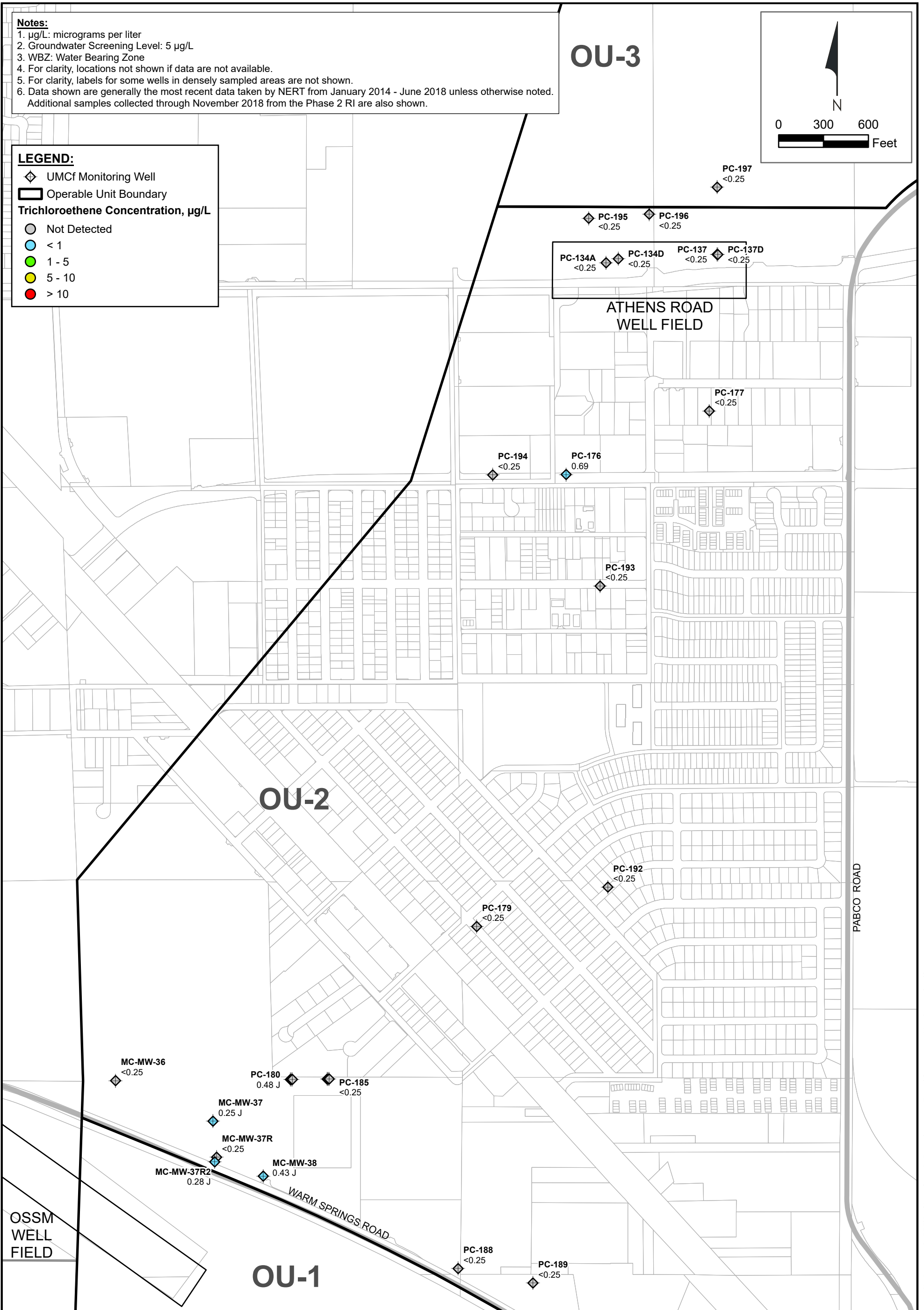
- 1. µg/L: micrograms per liter
- 2. Groundwater Screening Level: 5 µg/L
- 3. WBZ: Water Bearing Zone
- 4. For clarity, locations not shown if data are not available.
- 5. For clarity, labels for some wells in densely sampled areas are not shown.
- 6. Data shown are generally the most recent data taken by NERT from January 2014 - June 2018 unless otherwise noted. Additional samples collected through November 2018 from the Phase 2 RI are also shown.

OU-3



LEGEND:

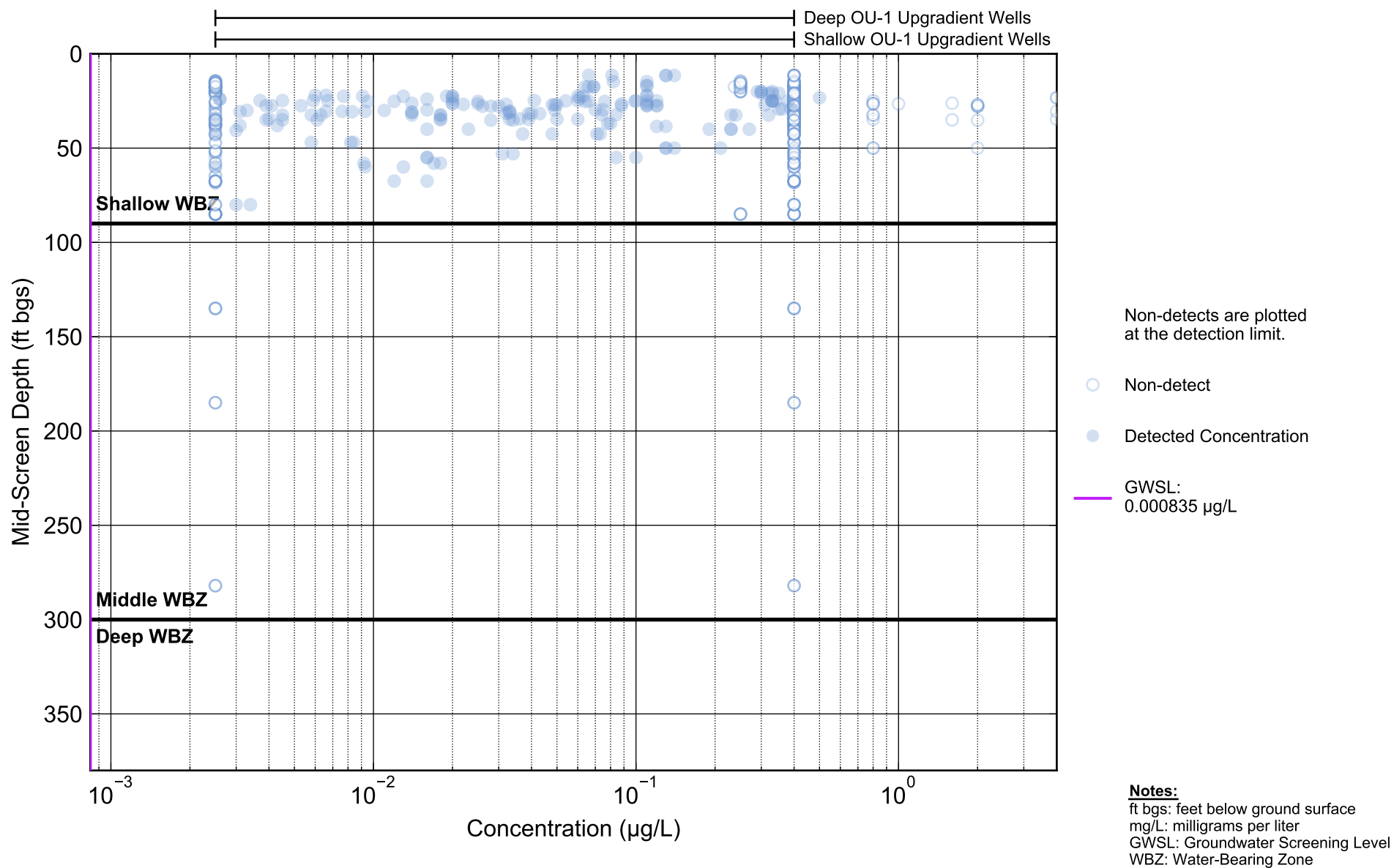
- ◆ UMCf Monitoring Well
 - ▭ Operable Unit Boundary
- Trichloroethene Concentration, µg/L**
- Not Detected
 - < 1
 - 1 - 5
 - 5 - 10
 - > 10



Trichloroethene - Shallow WBZ (~40-90 ft bgs)
OU-2 NERT Off-Site Study Area
 Nevada Environmental Response Trust Site, Henderson, Nevada

Figure
8-26c

Path: H:\Petomane\NERT\OU-1_OU-2 RI Report\Working_Folder\Groundwater Maps\2022_OU2\figures_2.aprx



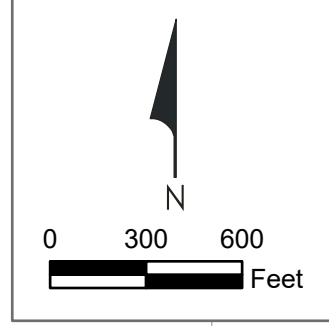
OU-2 1,2,3-Trichloropropane Groundwater Concentrations vs. Sample Depth
 Nevada Environmental Response Trust Site
 Henderson, Nevada

Figure

8-27a

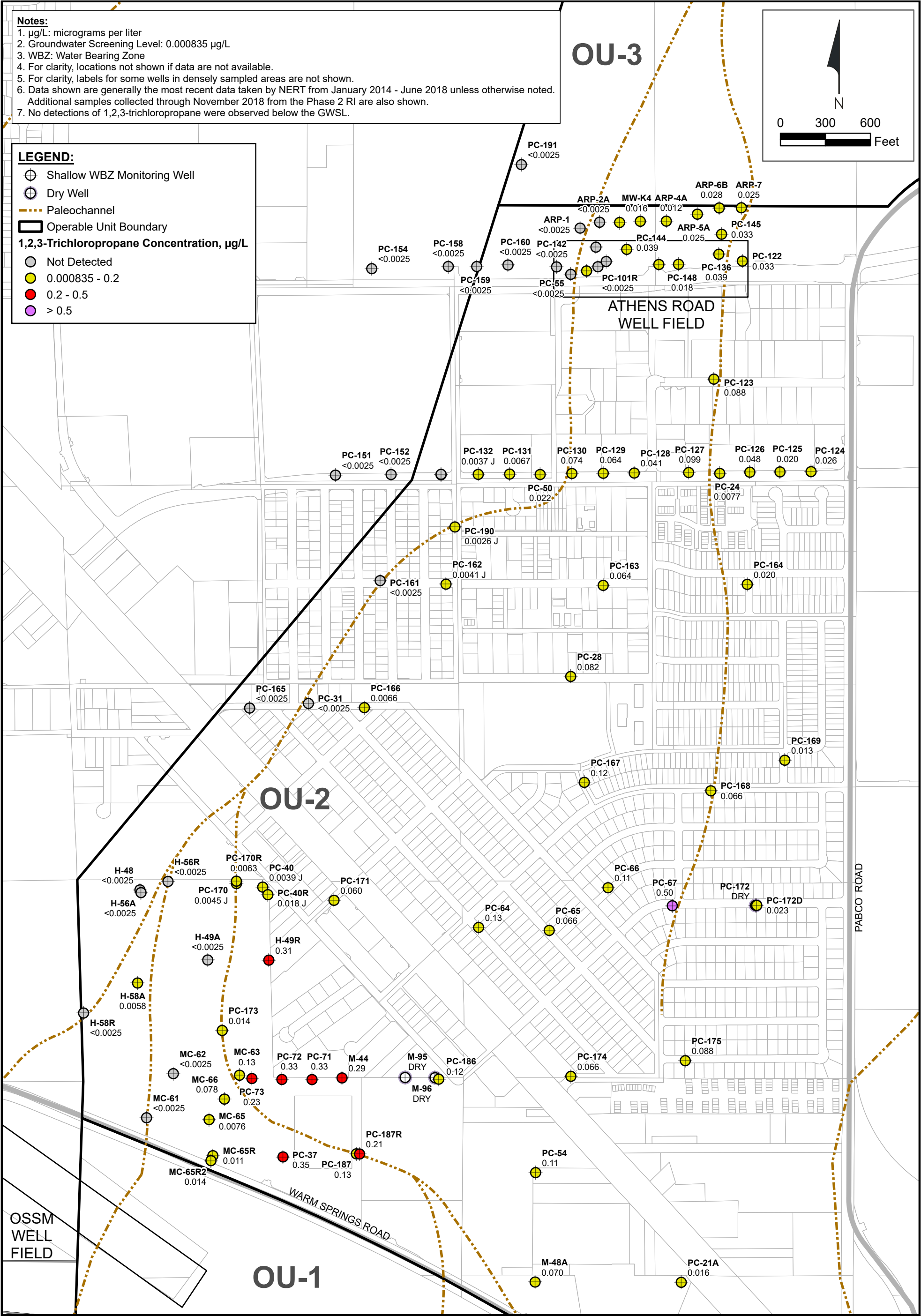
Notes:

1. µg/L: micrograms per liter
2. Groundwater Screening Level: 0.000835 µg/L
3. WBZ: Water Bearing Zone
4. For clarity, locations not shown if data are not available.
5. For clarity, labels for some wells in densely sampled areas are not shown.
6. Data shown are generally the most recent data taken by NERT from January 2014 - June 2018 unless otherwise noted. Additional samples collected through November 2018 from the Phase 2 RI are also shown.
7. No detections of 1,2,3-trichloropropane were observed below the GWSL.



LEGEND:

- ⊕ Shallow WBZ Monitoring Well
 - ⊖ Dry Well
 - - - Paleochannel
 - ▭ Operable Unit Boundary
- 1,2,3-Trichloropropane Concentration, µg/L**
- Not Detected
 - 0.000835 - 0.2
 - 0.2 - 0.5
 - > 0.5



1,2,3-Trichloropropane - Shallow WBZ (0-40 ft bgs)
OU-2 NERT Off-Site Study Area
 Nevada Environmental Response Trust Site, Henderson, Nevada

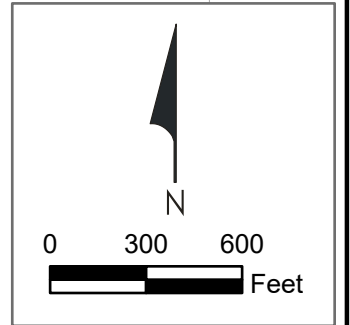
Figure
8-27b

Path: H:\Petomane\NERT\OU-1_OU-2 RI Report\Working_Folder\Groundwater Maps\2022_OU2\figures_2.aprx

Notes:

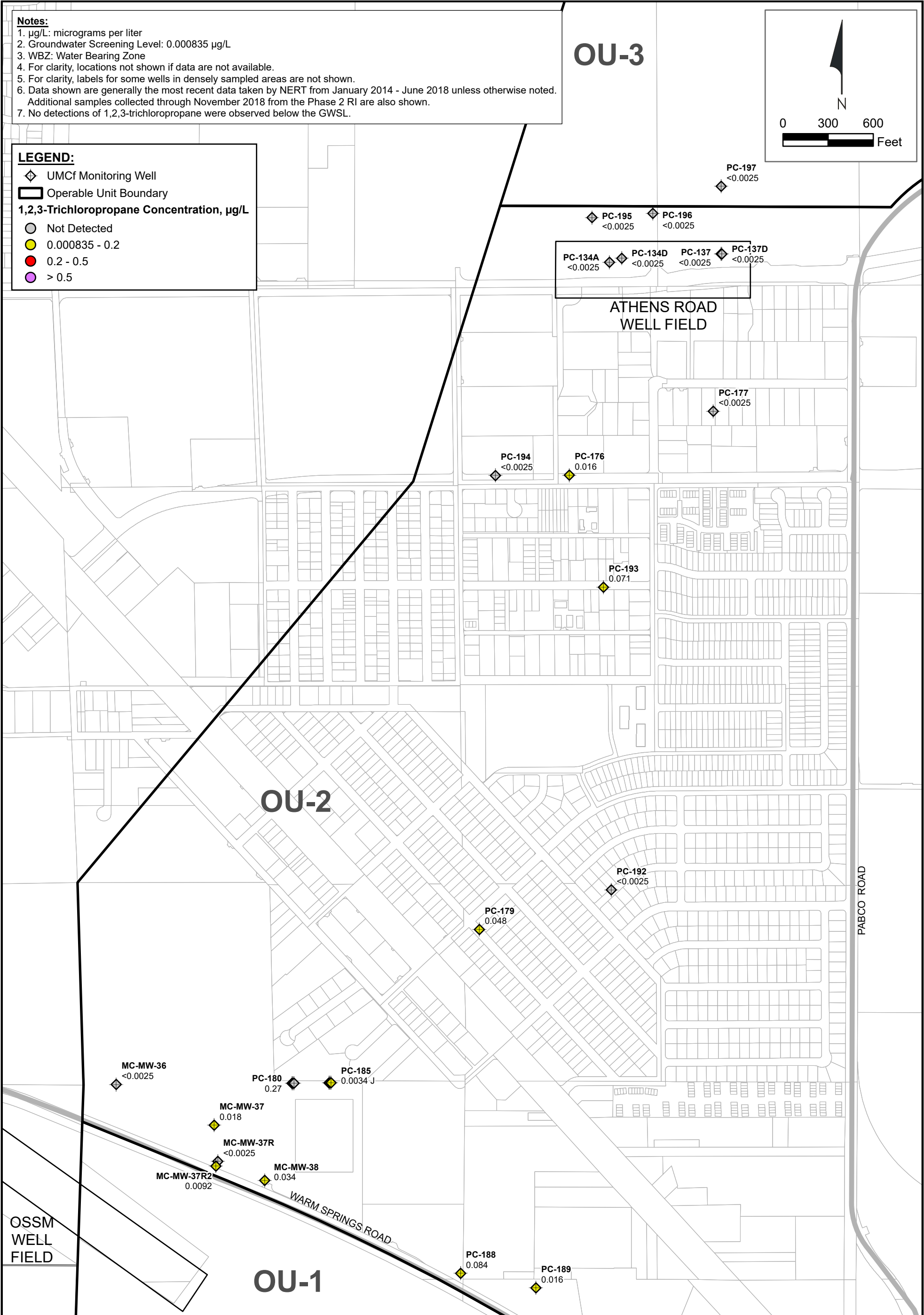
- 1. µg/L: micrograms per liter
- 2. Groundwater Screening Level: 0.000835 µg/L
- 3. WBZ: Water Bearing Zone
- 4. For clarity, locations not shown if data are not available.
- 5. For clarity, labels for some wells in densely sampled areas are not shown.
- 6. Data shown are generally the most recent data taken by NERT from January 2014 - June 2018 unless otherwise noted. Additional samples collected through November 2018 from the Phase 2 RI are also shown.
- 7. No detections of 1,2,3-trichloropropane were observed below the GWSL.

OU-3



LEGEND:

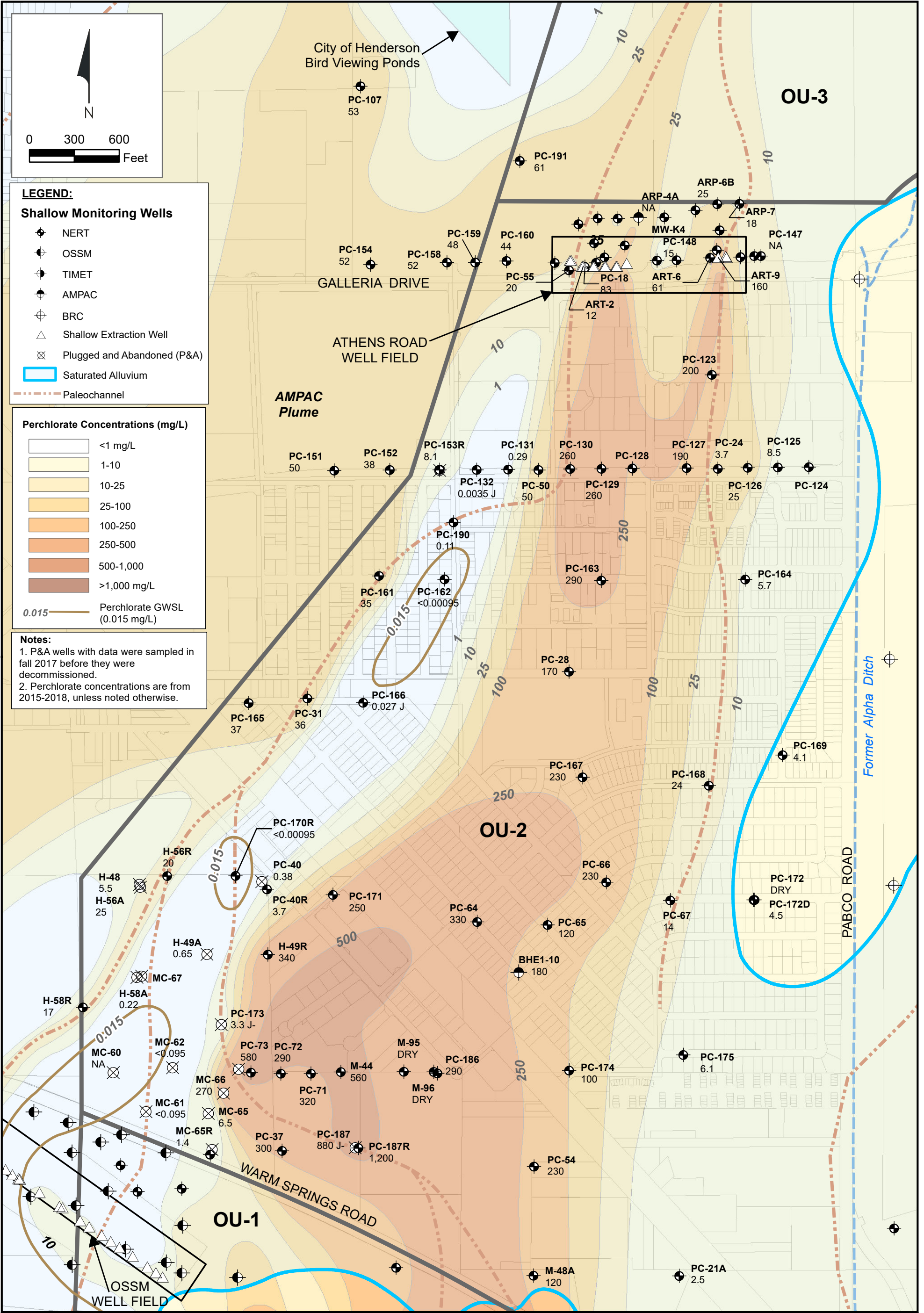
- ◆ UMCf Monitoring Well
 - ▭ Operable Unit Boundary
- 1,2,3-Trichloropropane Concentration, µg/L**
- Not Detected
 - 0.000835 - 0.2
 - 0.2 - 0.5
 - > 0.5



1,2,3-Trichloropropane - Shallow WBZ (~40-90 ft bgs)
OU-2 NERT Off-Site Study Area
 Nevada Environmental Response Trust Site, Henderson, Nevada

Figure
8-27c

Path: H:\Petomane\NERT\OU-1_OU-2 RI Report\Working_Folder\Groundwater Maps\2022_OU2\figures_2.aprx

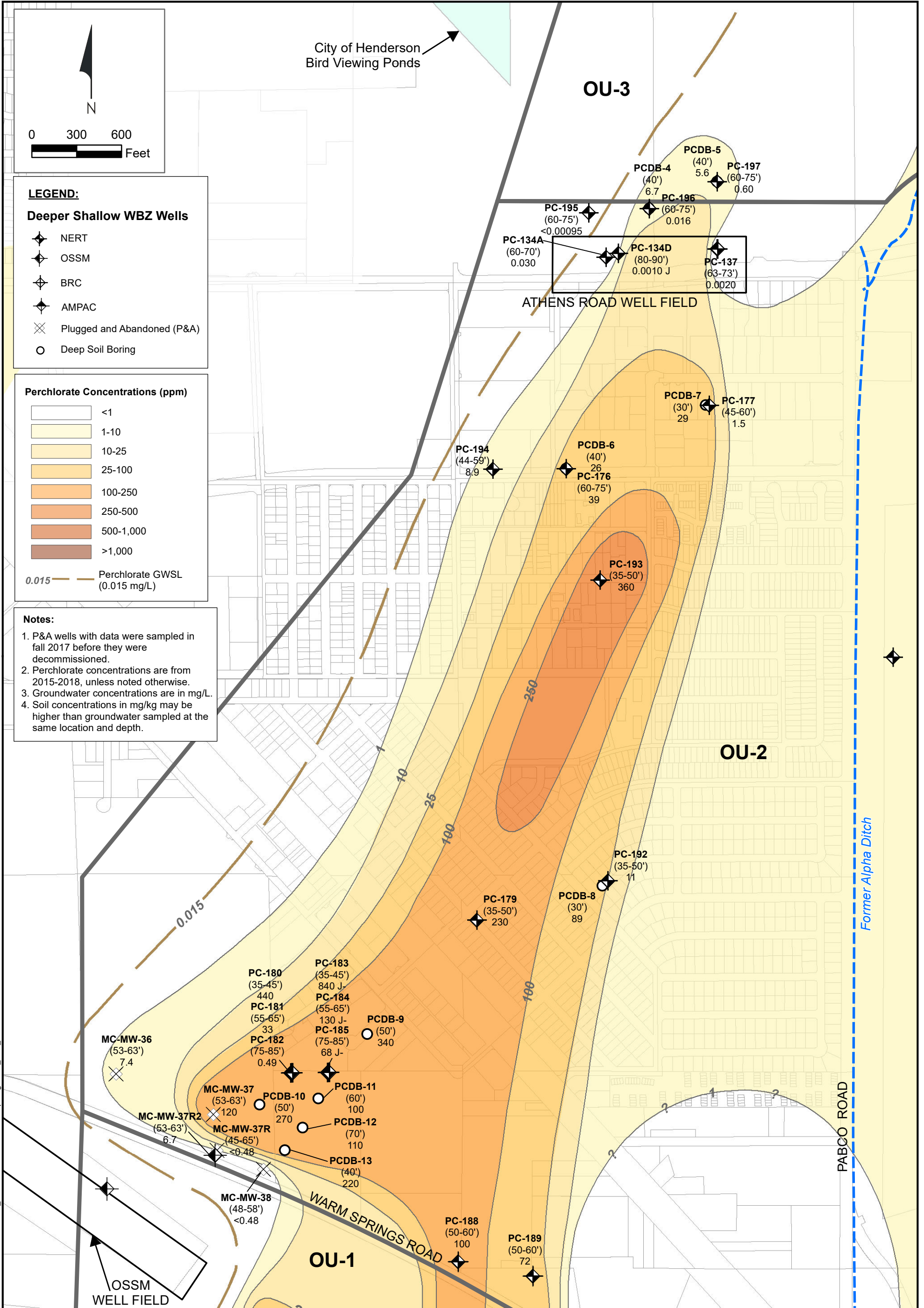


Path: H:\LePei\mane\NERT\RI_Evaluation\GIS\Chemical Maps\Fig 8-27a_Phase 2 RI_Locations_Extended Offsite Study Area_Perchlorate_600.mxd



Perchlorate Isoconcentration Map, Shallow WBZ (0-40 ft bgs) - OU-2, NERT Off-Site Study Area
 Nevada Environmental Response Trust Site; Henderson, Nevada

Figure
8-28a

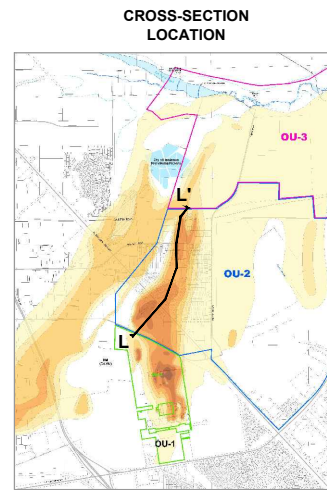
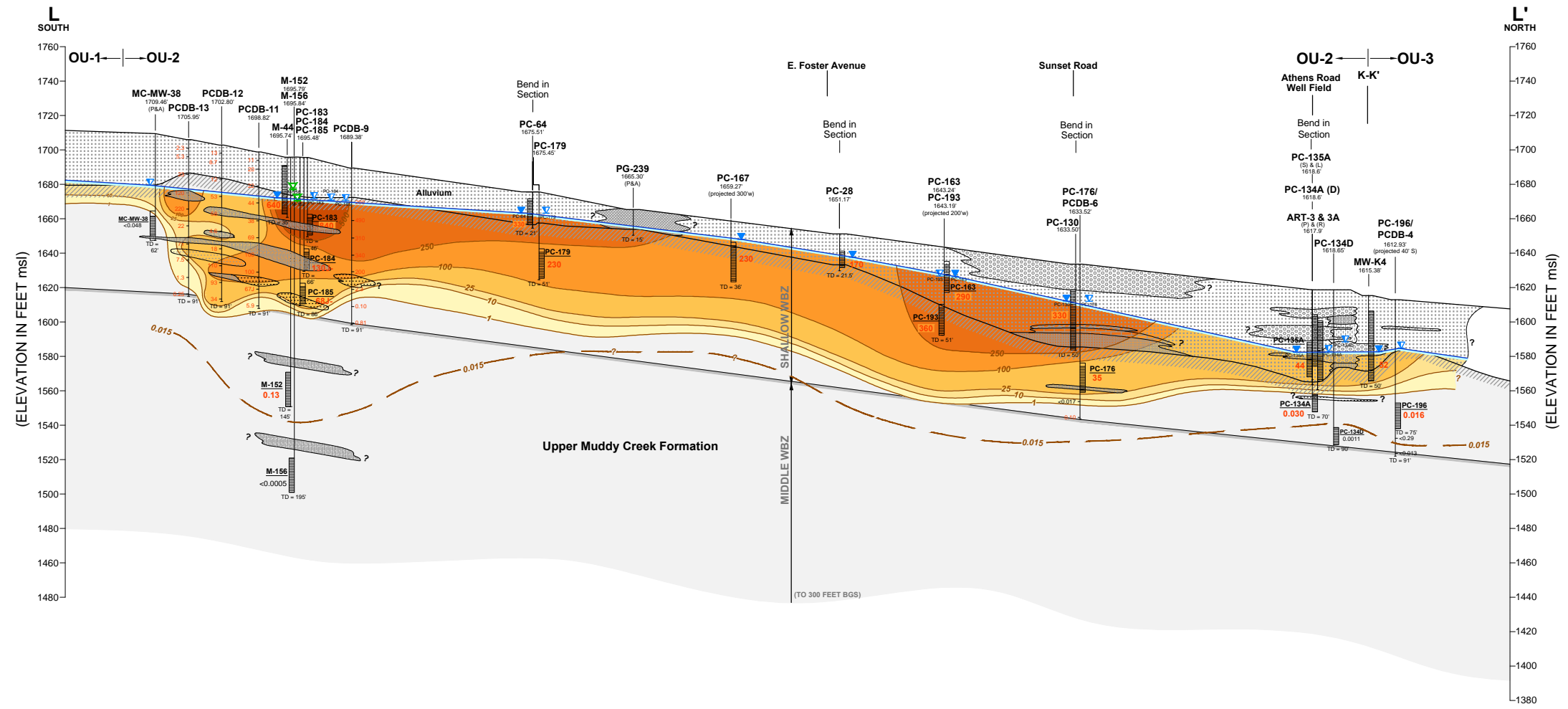


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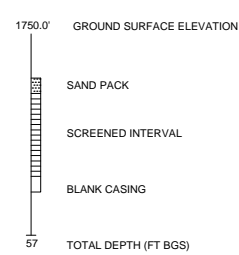
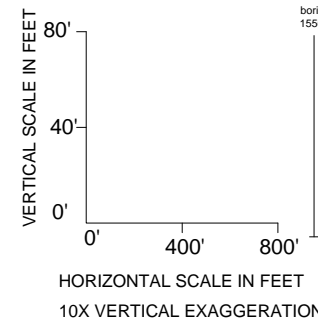
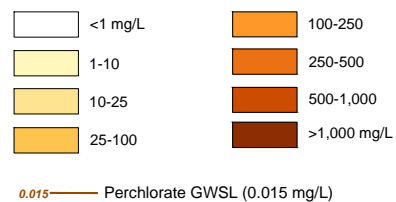
Perchlorate Isoconcentration Map, Shallow WBZ (~40-90 ft bgs) - OU-2, NERT Off-Site Study Area
 Nevada Environmental Response Trust Site; Henderson, Nevada

Figure
8-28b



LEGEND

PERCHLORATE CONCENTRATIONS



GROUNDWATER ELEVATIONS (feet, mean sea level datum)

Shallow Water-Bearing Zone (0-90 ft)

- Water Table Zone Well
- Deeper Shallow WBZ Well

Middle Water-Bearing Zone (90-300 ft)

- Upper Muddy Creek Formation, First Fine-Grained Unit (UMCF-fg1)

GROUNDWATER CONCENTRATIONS, 2017 - 2018

210 PERCHLORATE (mg/L)

Notes:

- NA - Not Analyzed
 - ND - Not Detected
 - NS - Not Sampled
- The federal Preliminary Remediation Goal (PRG) for perchlorate in groundwater is 0.015 mg/L.
 - Soil perchlorate concentrations (mg/kg) are shown in smaller non-bold font.

STRATIGRAPHIC UNITS AND SOIL TYPES

FILL	CALICHE	ALLUVIUM							UPPER MUDDY CREEK FORMATION			
FILL	CALICHE	COBBLES/ GRAVEL	GRAVEL/ SANDY GRAVEL	SILTY SAND / GRAVEL	SAND/ SAND WITH GRAVEL	SILTY SAND	CLAYEY SAND	SANDY CLAY/ SILTY CLAY	SANDY SILT	SILTY CLAY/ CLAYEY SILT	SANDY SILT (very fine to fine sand)	SILTY SAND/ SANDY BED



Subsurface Cross-Section L-L' Showing the Vertical Extent of Perchlorate in OU-2

Nevada Environmental Response Trust Site
Henderson, Nevada

Figure

8-29a

Drafter: RS

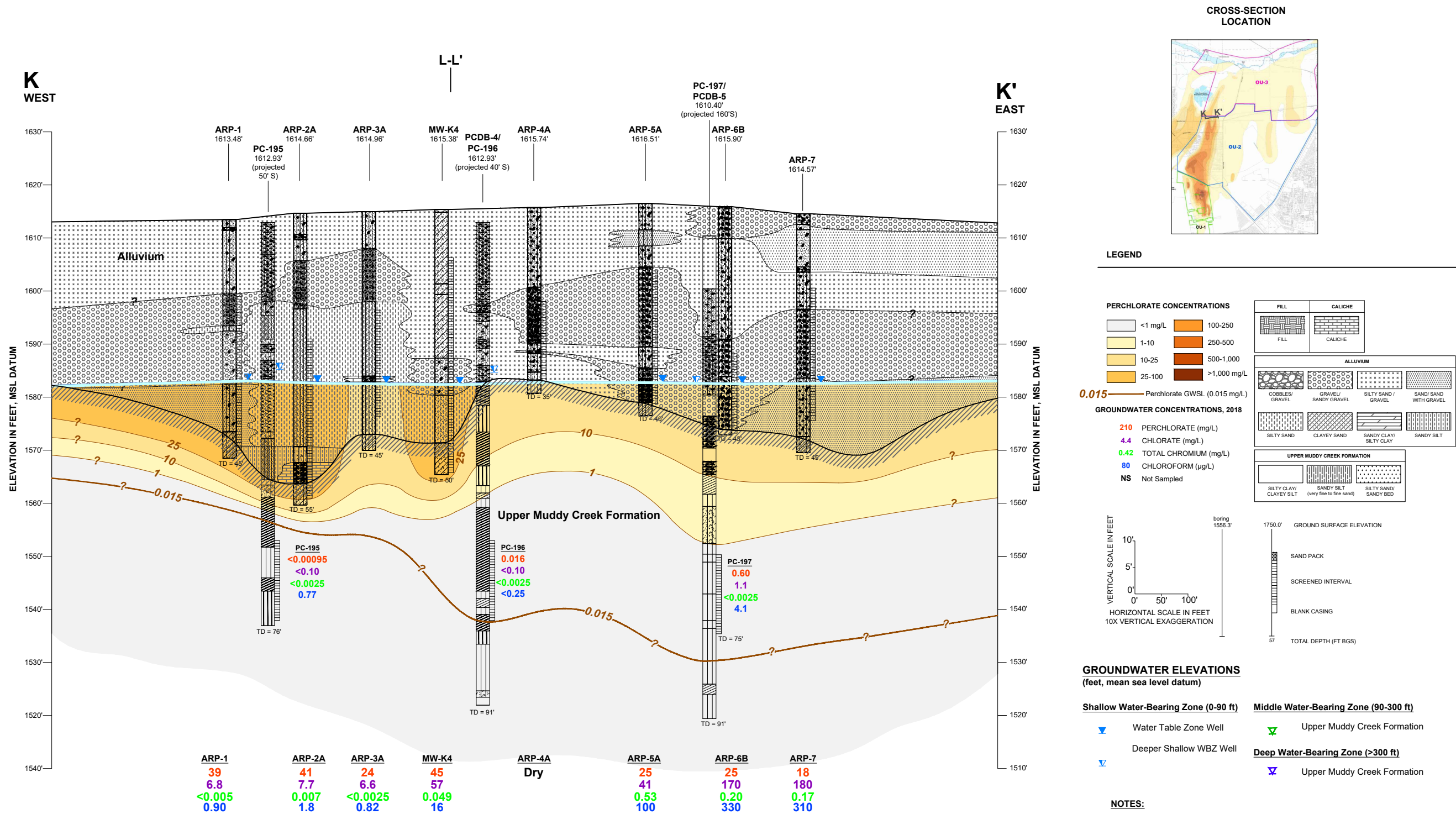
Date: 5/4/2020

Contract Number: 169002 9369

Approved by:

Revised:

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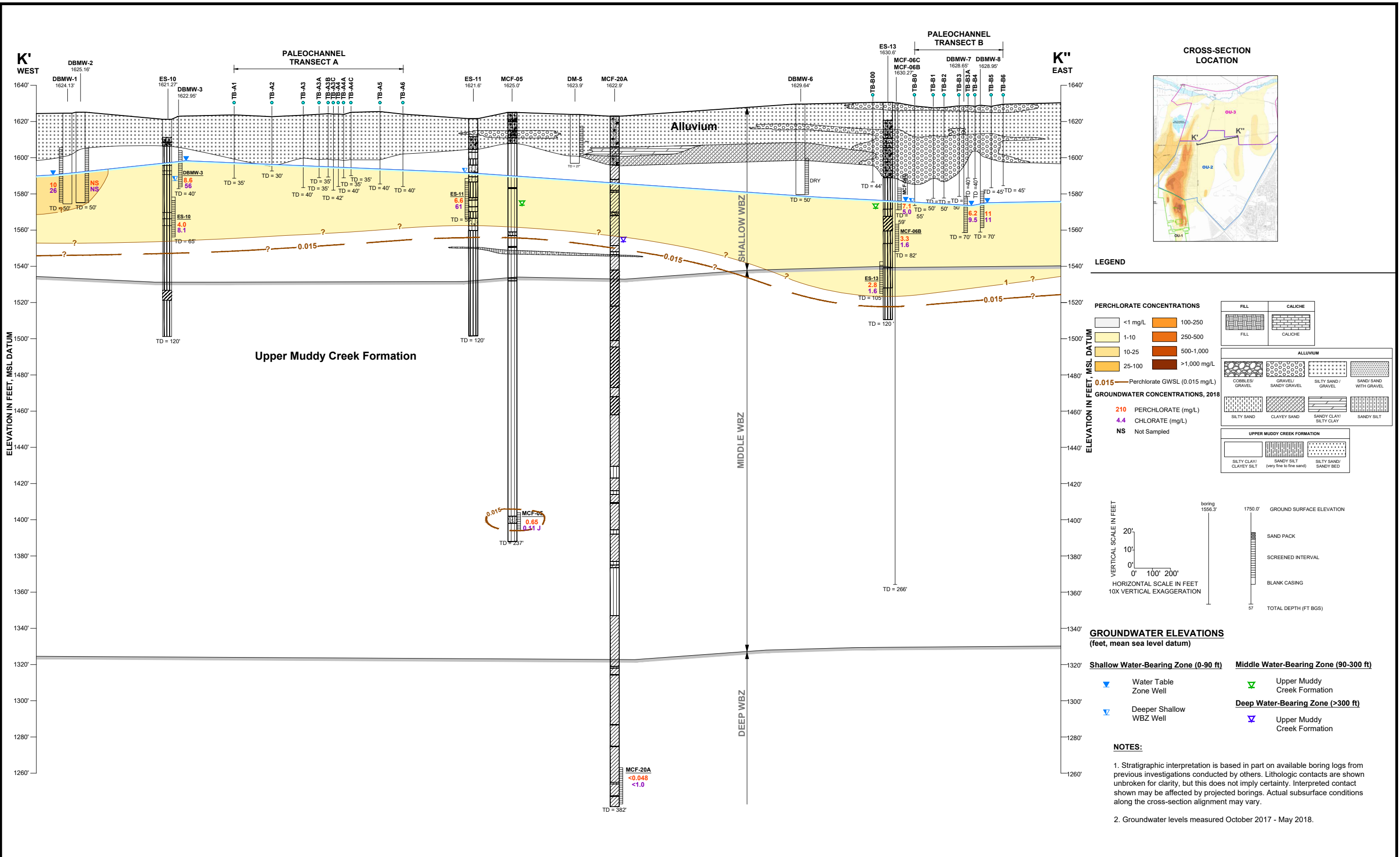


Subsurface Cross-Section K-K' Showing the Vertical Extent of Perchlorate along the OU-2/OU-3 boundary
 Nevada Environmental Response Trust Site
 Henderson, Nevada

Figure
8-29b



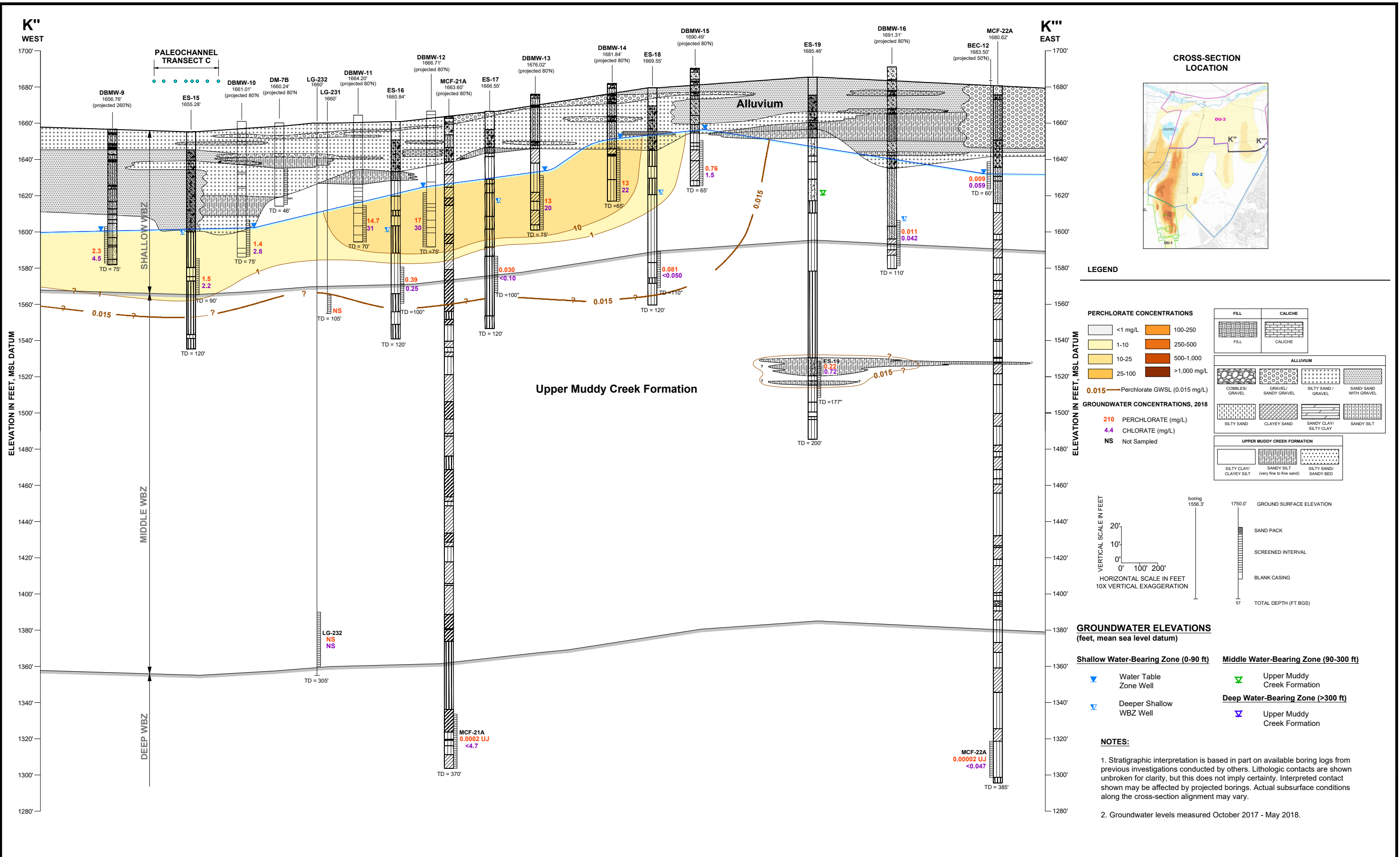
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Subsurface Cross-Section K'-K'' Showing the Vertical Extent of Perchlorate along the OU-2/OU-3 boundary
 Nevada Environmental Response Trust Site
 Henderson, Nevada

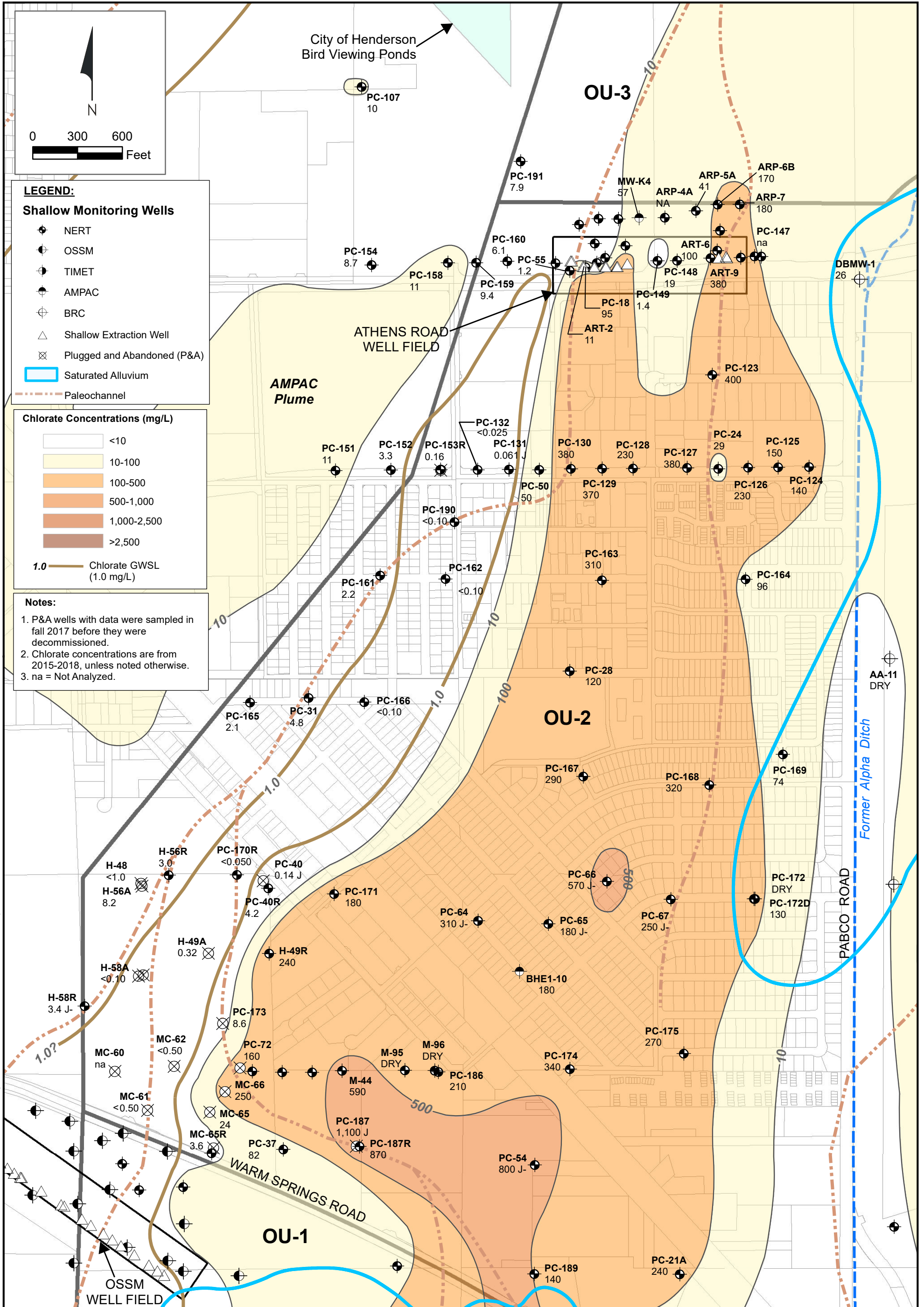
Figure
8-29c

Q:\DRAWINGS\1690006943\K-K'-PERCHLORATE-2018scale.dwg User: RMSO Jan 20, 2023 - 3:12pm



Subsurface Cross-Section K''-K''' Showing the Vertical Extent of Perchloration along the OU-2/OU-3 boundary
 Nevada Environmental Response Trust Site
 Henderson, Nevada

Figure
8-29d



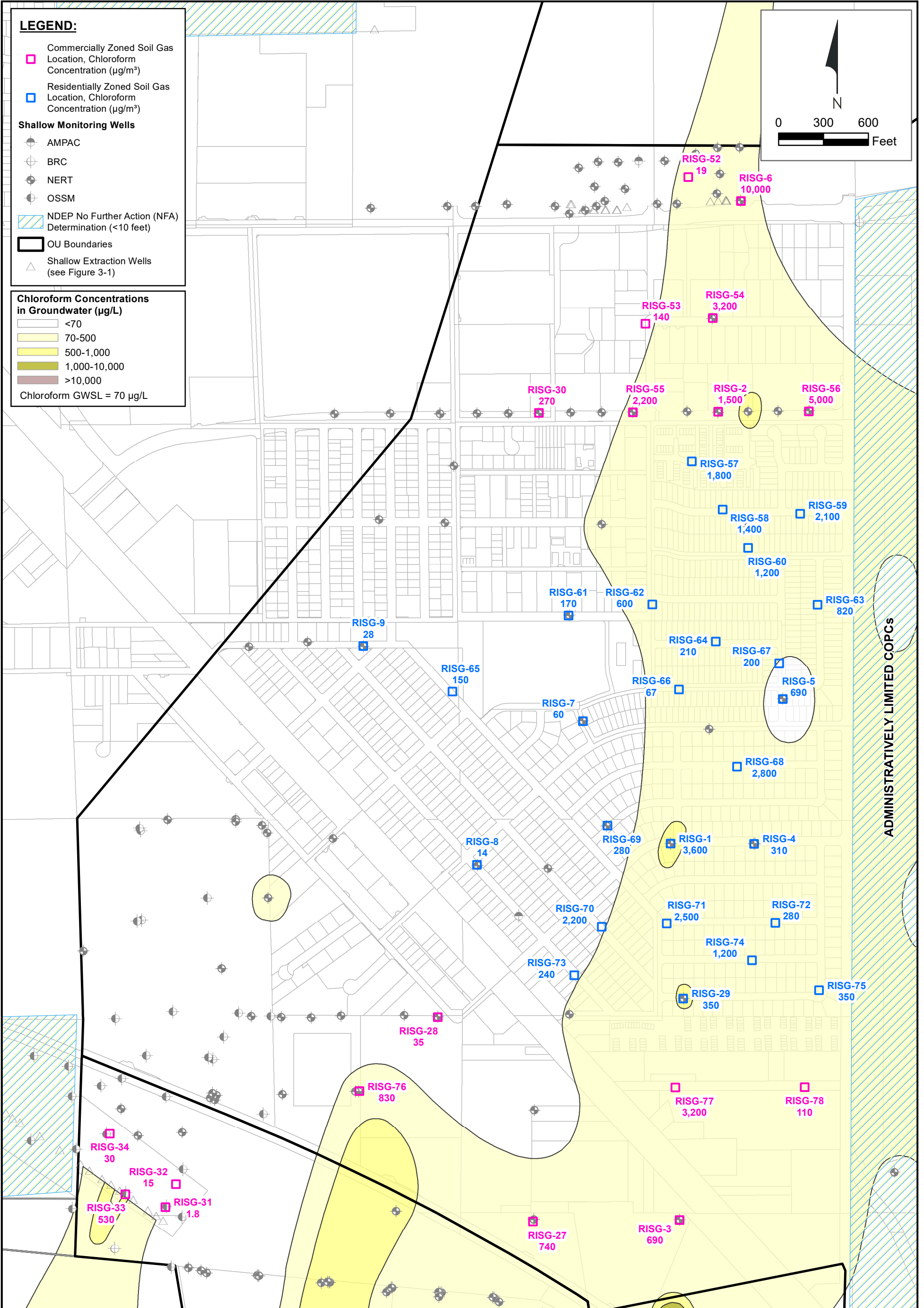
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Chlorate Isoconcentration Map, Shallow WBZ (0-40 ft bgs) - OU-2, NERT Off-Site Study Area
Nevada Environmental Response Trust Site; Henderson, Nevada

Figure
8-30

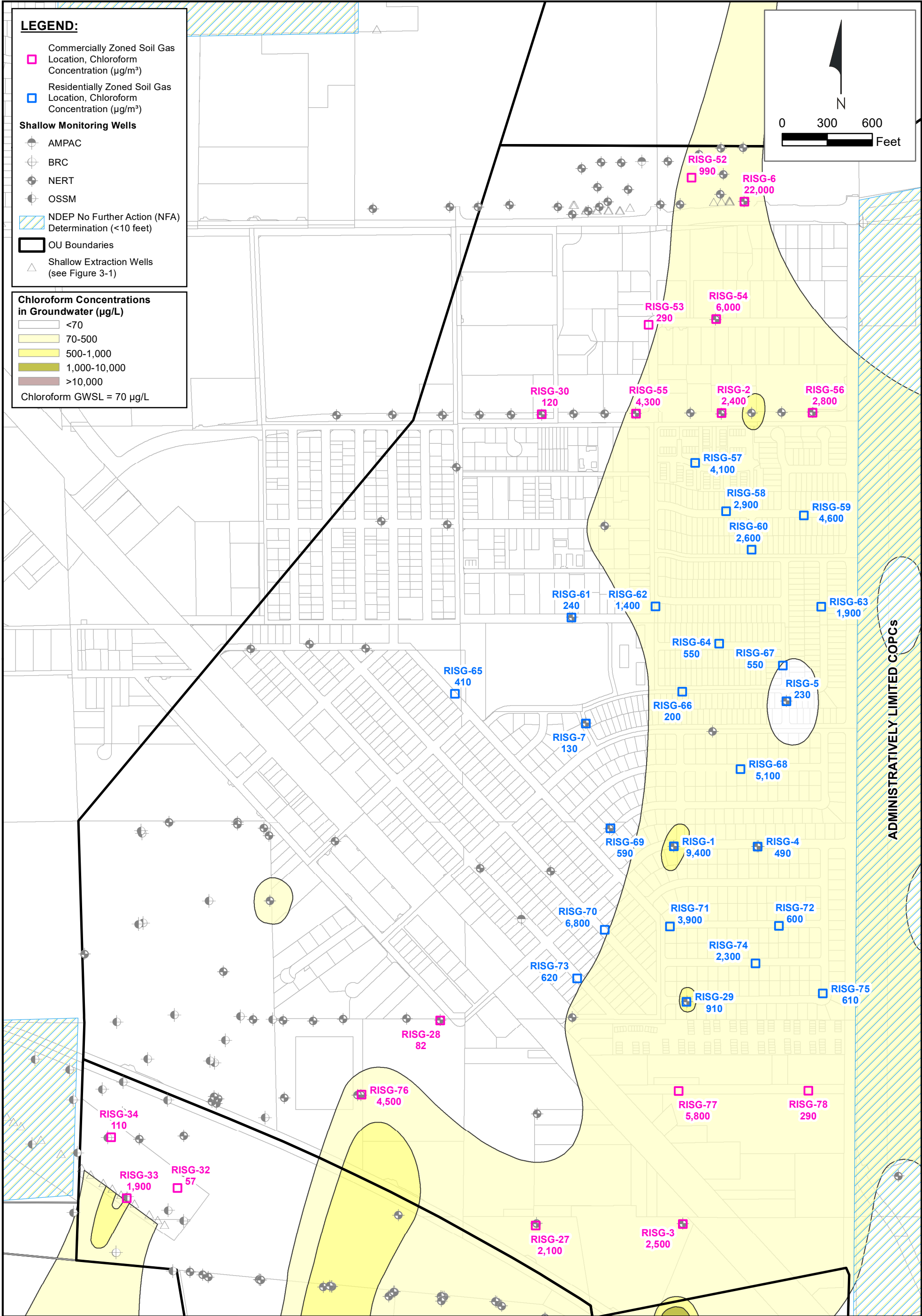
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OU-2 Soil Gas Chloroform Results
5 ft bgs, November 2019 - January 2020
 Nevada Environmental Response Trust Site; Henderson, Nevada

Figure
8-31a

Path: H:\LePalomane\NERT\RI OU-1_OU-2 RI Report\Working_Folder\Soil Gas\figure 8-30b_SoilGas_10to15ftDepth_OU2_ModNo.9.mxd



OU-2 Soil Gas Chloroform Results
10-15 ft bgs, November 2019 - January 2020
 Nevada Environmental Response Trust Site; Henderson, Nevada



Figure
8-31b