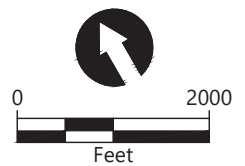


HORIZONTAL DATUM: Oregon State Plane North Zone, North American Datum (NAD83/HARN 91), International Feet

NOTE: All locations are approximate.

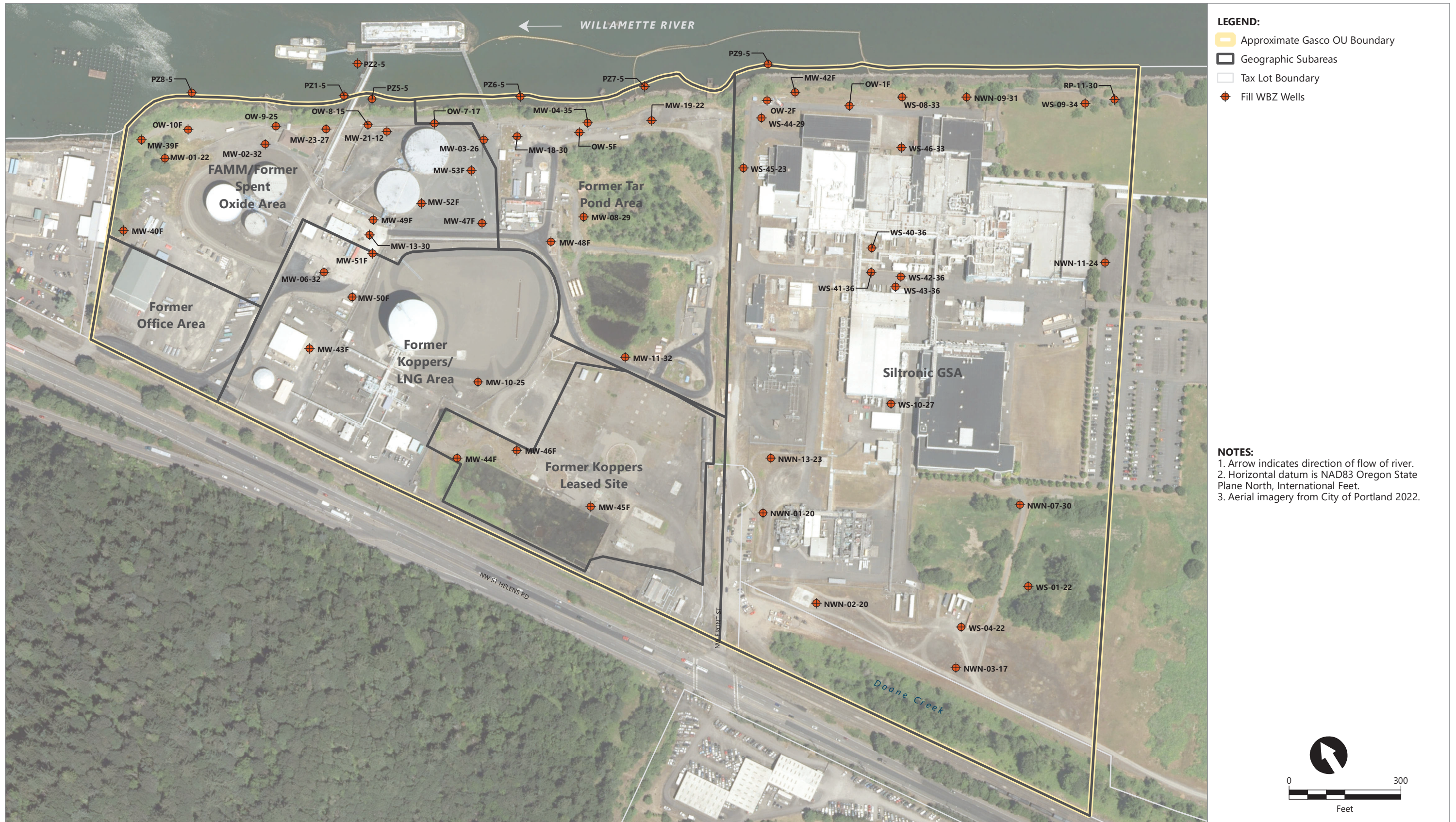


Publish Date: 2023/07/28 11:01 AM | User: dholmer
 Filepath: K:\Projects\0029-NW Natural Gas Co\Gasco Source Control\HC&C System Annual Report 2022\0029-RP-001 (Vicinity Map).dwg Figure 1-1



**Figure 1.1
Vicinity Map**

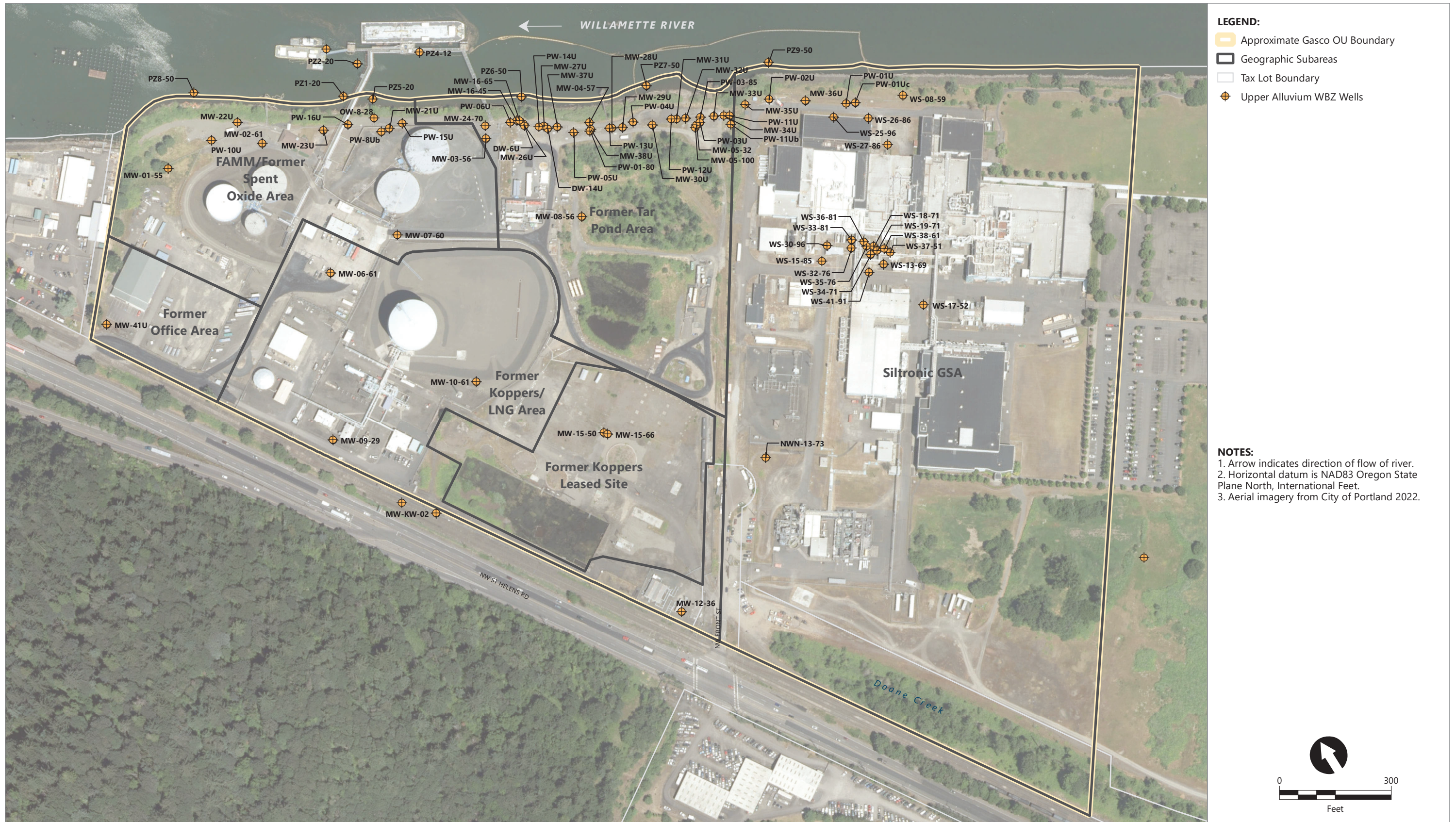
NW Natural Gasco Site



Publish Date: 2023/06/22, 10:03 AM | User: alesueur
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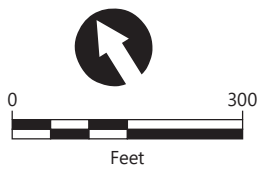


Figure 2.1
Fill WBZ Wells
 NW Natural Gasco Site



- LEGEND:**
- Approximate Gasco OU Boundary
 - Geographic Subareas
 - Tax Lot Boundary
 - ⊕ Upper Alluvium WBZ Wells

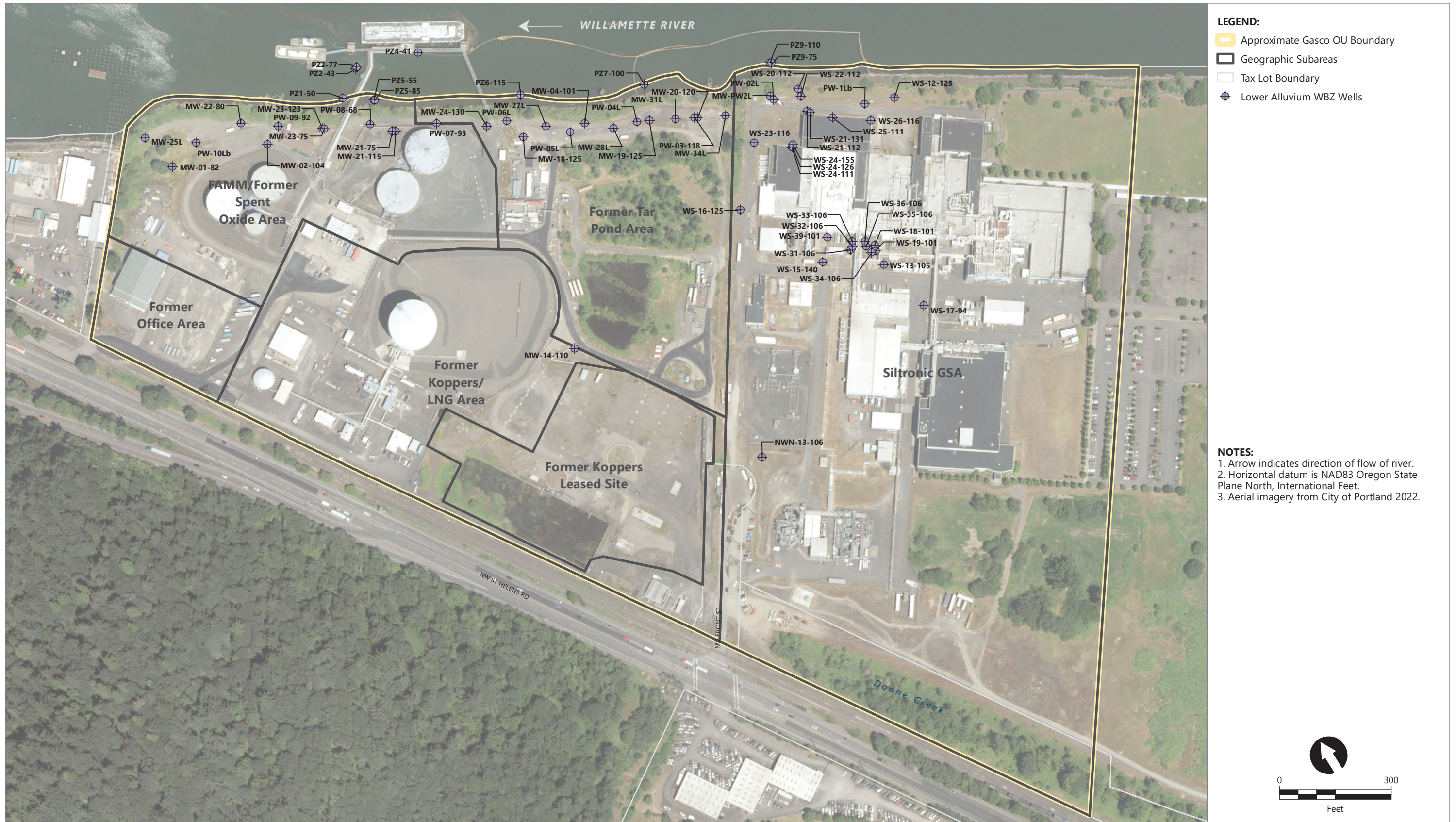
- NOTES:**
1. Arrow indicates direction of flow of river.
 2. Horizontal datum is NAD83 Oregon State Plane North, International Feet.
 3. Aerial imagery from City of Portland 2022.



Publish Date: 2023/06/22, 10:07 AM | User: alesueur
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Figure 2.2
Upper Alluvium WBZ Wells
 NW Natural Gasco Site

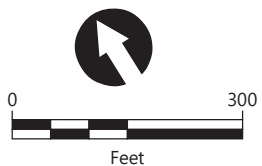


Publish Date: 2023/06/22, 10:09 AM | User: alesueur
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- LEGEND:**
- Approximate Gasco OU Boundary
 - Geographic Subareas
 - Tax Lot Boundary
 - ◆ Deep Lower Alluvium WBZ Wells

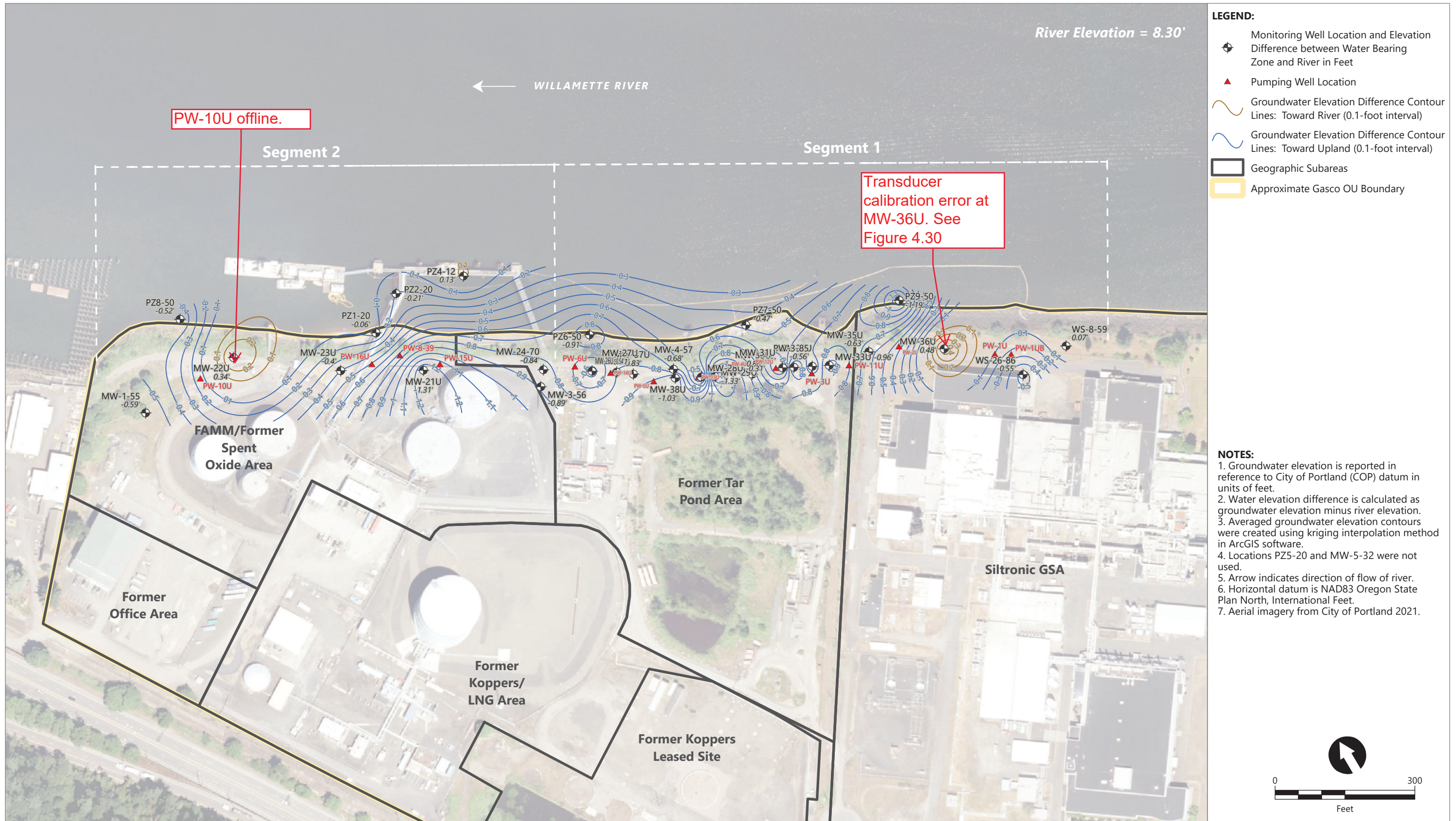
- NOTES:**
1. Arrow indicates direction of flow of river.
 2. Horizontal datum is NAD83 Oregon State Plane North, International Feet.
 3. Aerial imagery from City of Portland 2022.



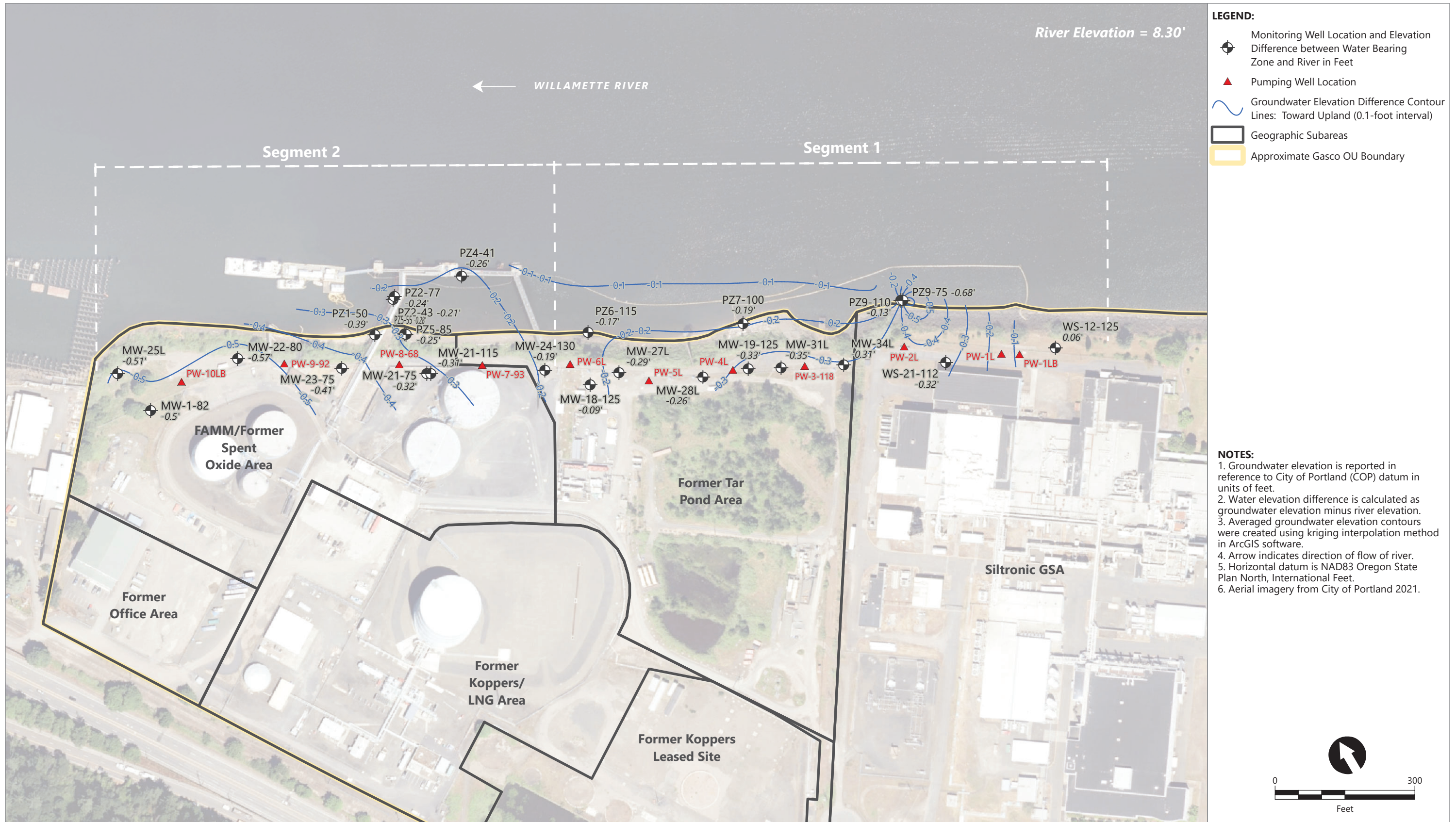
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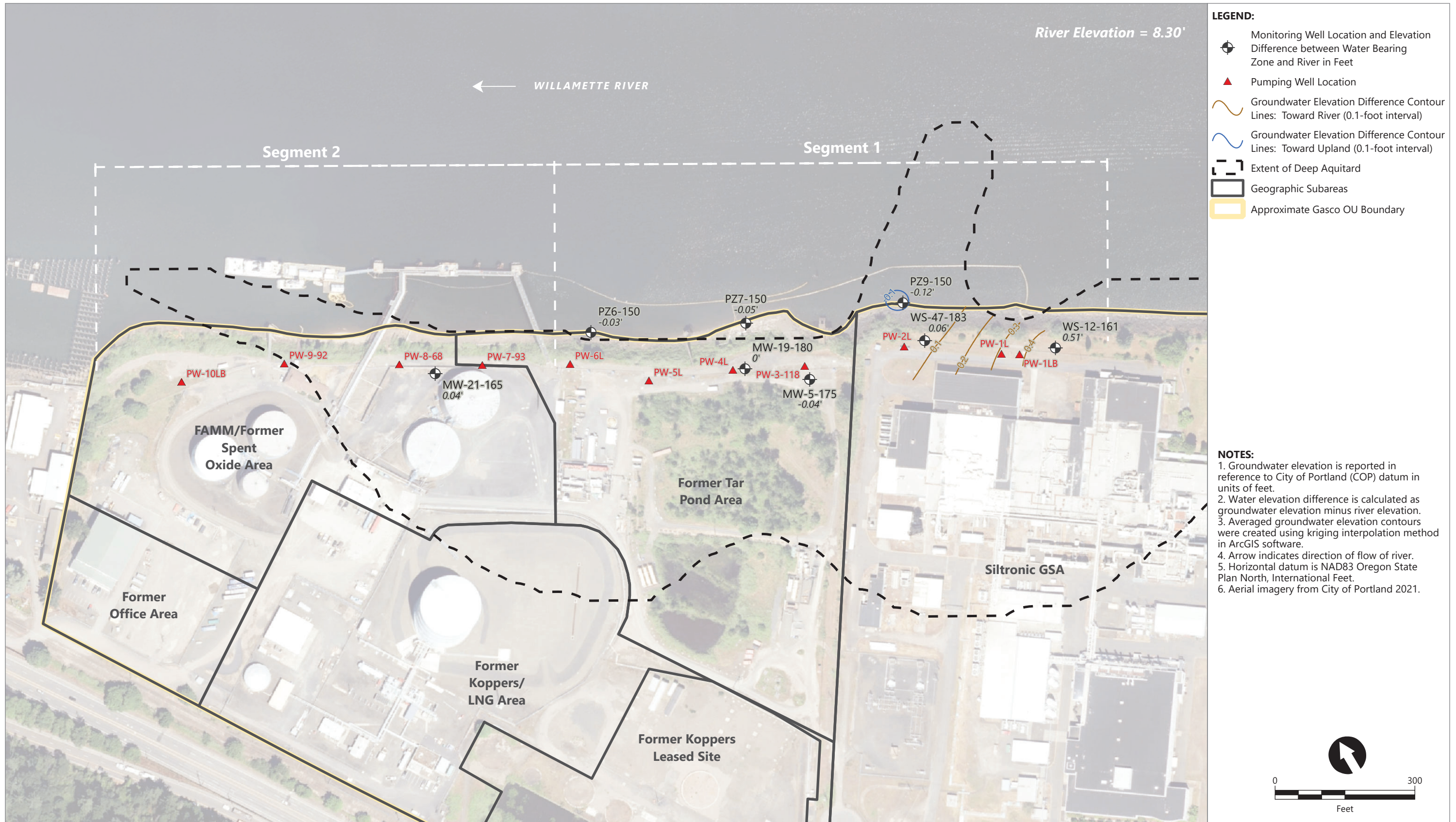
Figure 2.4
Deep Lower Alluvium WBZ Wells
 NW Natural Gasco Site



Publish Date: 2023/08/09, 1:43 PM | User: cgardner
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Publish Date: 2023/08/07, 1:55 PM | User: cgardner
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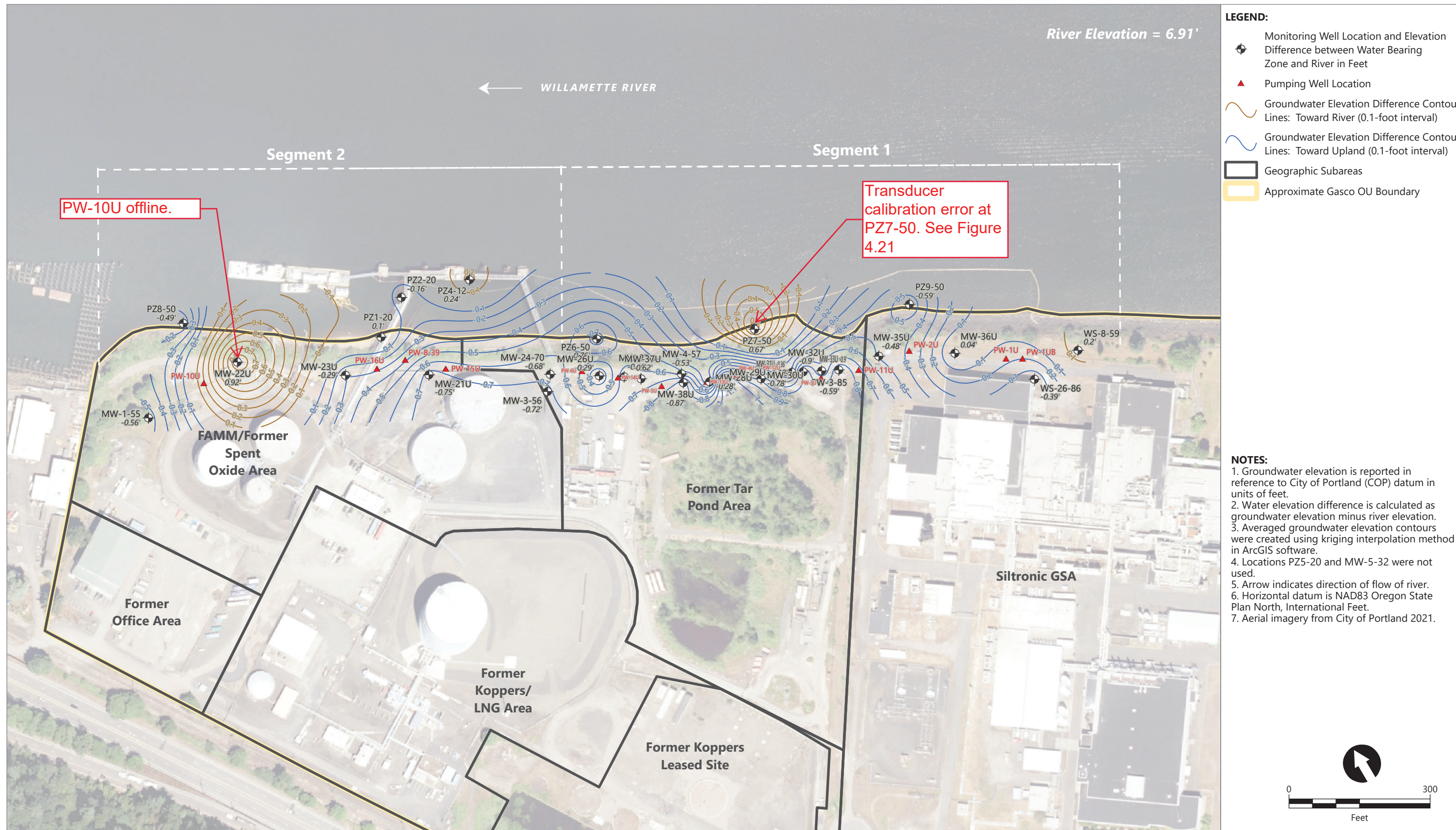


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Figure 3.1c
 Contours of Water Elevation Difference Between Deep Lower Alluvium WBZ and River Using Serfes 3-Day Rolling Averages From 1/11/2023-1/13/2023

NWN Gasco Site
 Portland, Oregon



Publish Date: 2023/08/09, 1:45 PM | User: cgardner
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River Elevation = 6.91'

← WILLAMETTE RIVER

Segment 2

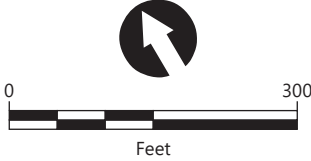
Segment 1

LEGEND:

-  Monitoring Well Location and Elevation Difference between Water Bearing Zone and River in Feet
-  Pumping Well Location
-  Groundwater Elevation Difference Contour Lines: Toward River (0.1-foot interval)
-  Groundwater Elevation Difference Contour Lines: Toward Upland (0.1-foot interval)
-  Geographic Subareas
-  Approximate Gasco OU Boundary

NOTES:

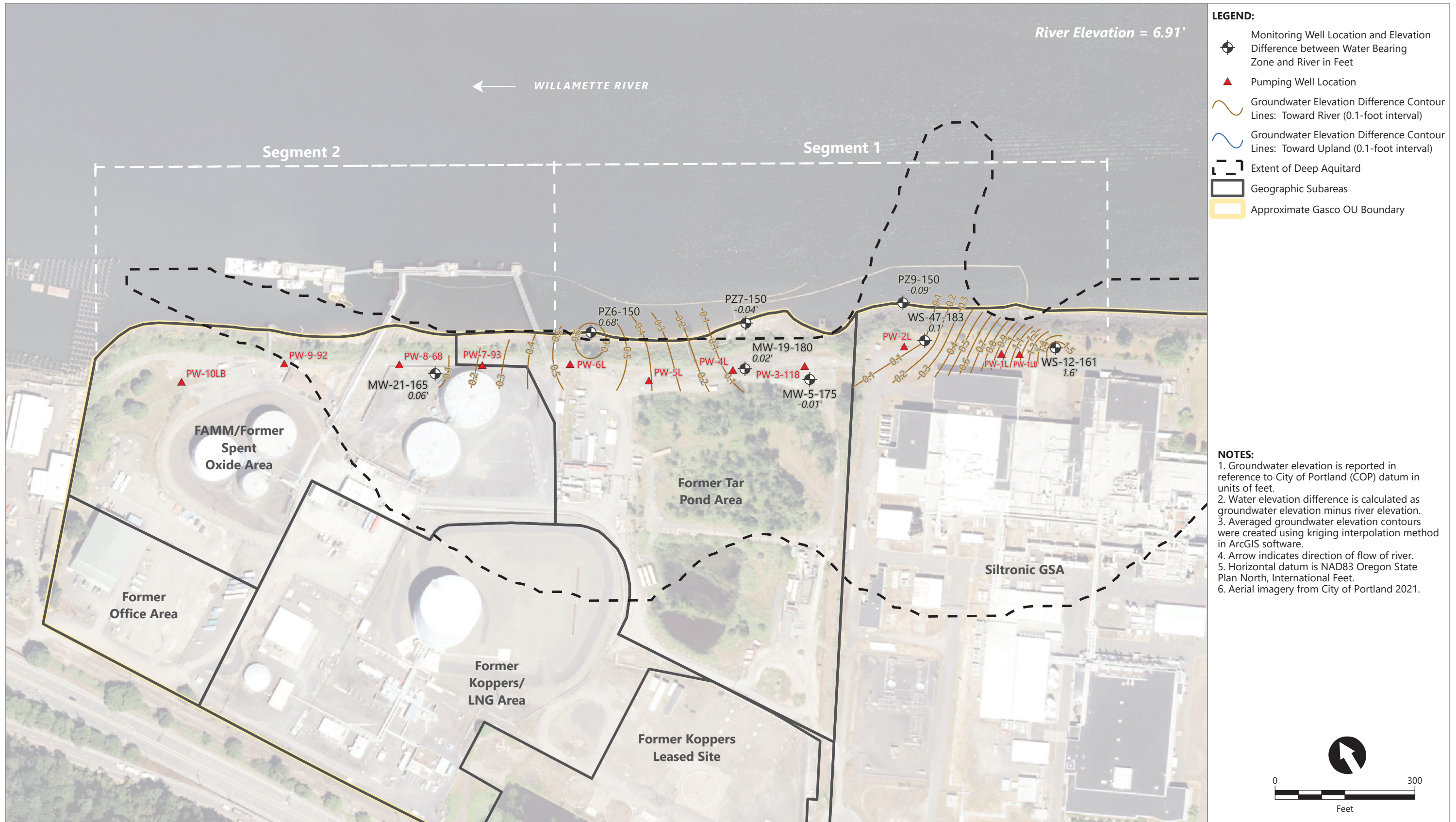
1. Groundwater elevation is reported in reference to City of Portland (COP) datum in units of feet.
2. Water elevation difference is calculated as groundwater elevation minus river elevation.
3. Averaged groundwater elevation contours were created using kriging interpolation method in ArcGIS software.
4. Arrow indicates direction of flow of river.
5. Horizontal datum is NAD83 Oregon State Plan North, International Feet.
6. Aerial imagery from City of Portland 2021.



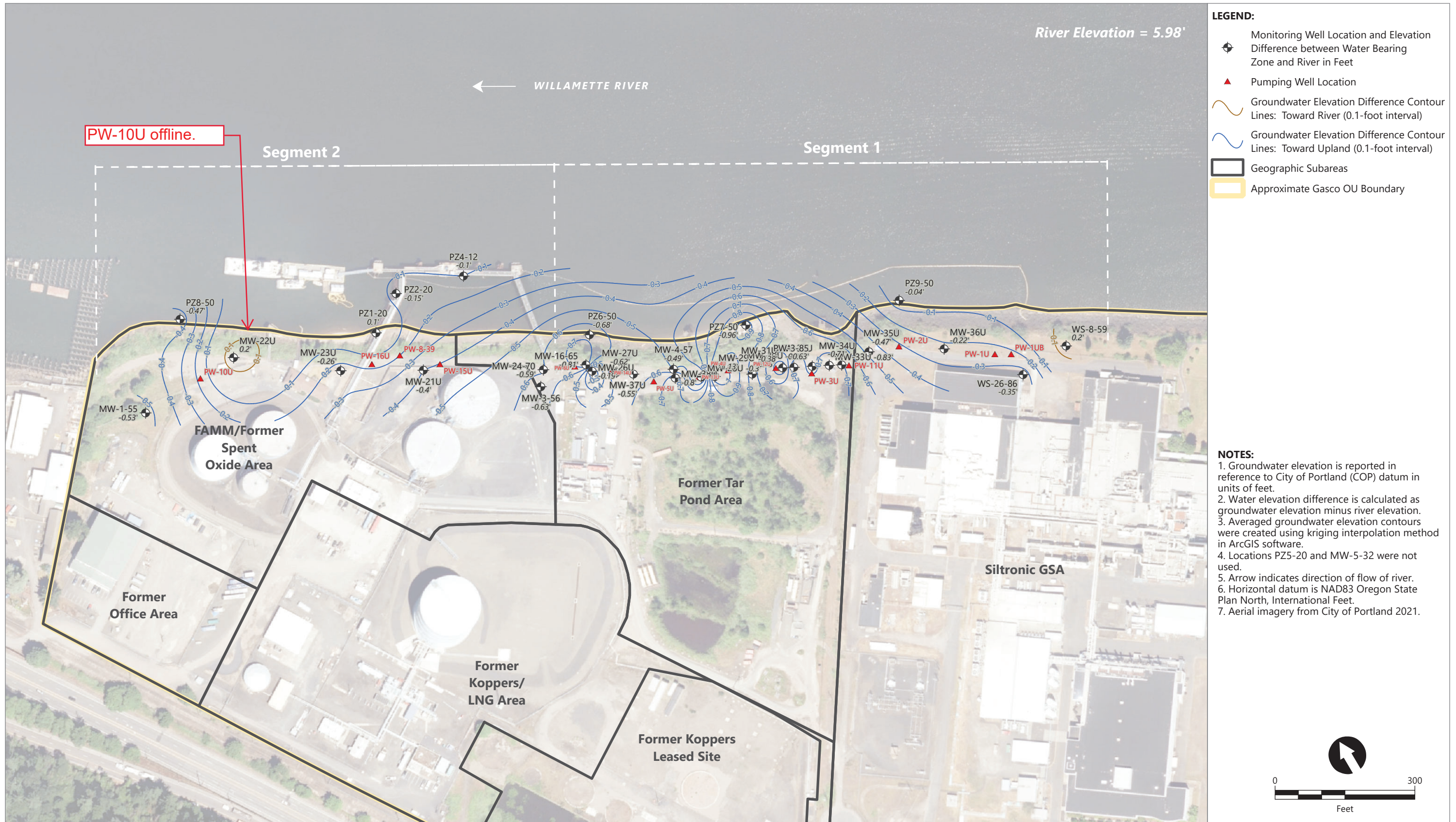
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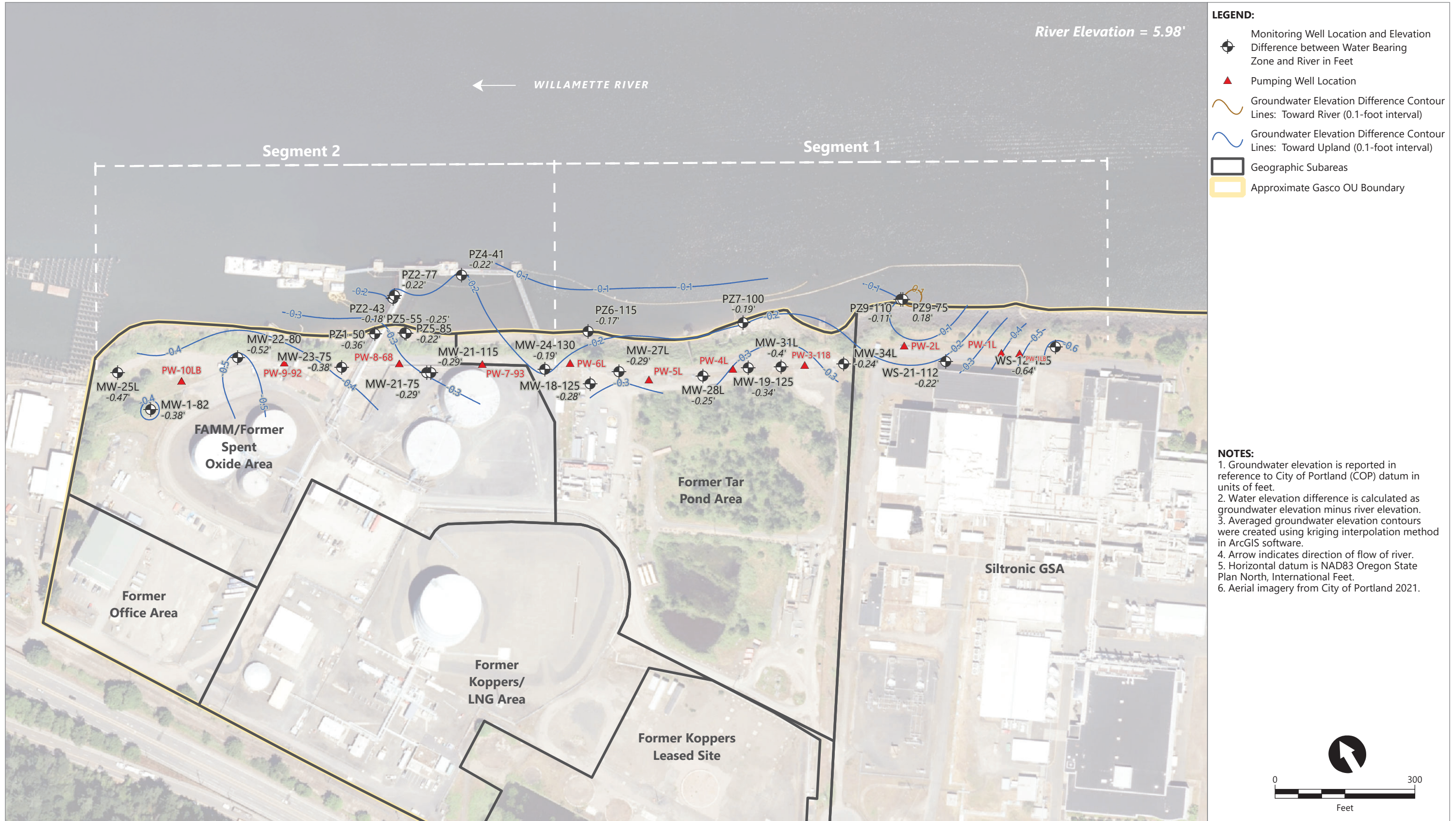
**Figure 3.2b
Contours of Water Elevation Difference Between Lower Alluvium WBZ and River Using Serfes 3-Day Rolling Averages From 1/24/2023-1/26/2023**



Publish Date: 2023/08/07, 2:02 PM | User: cgardner
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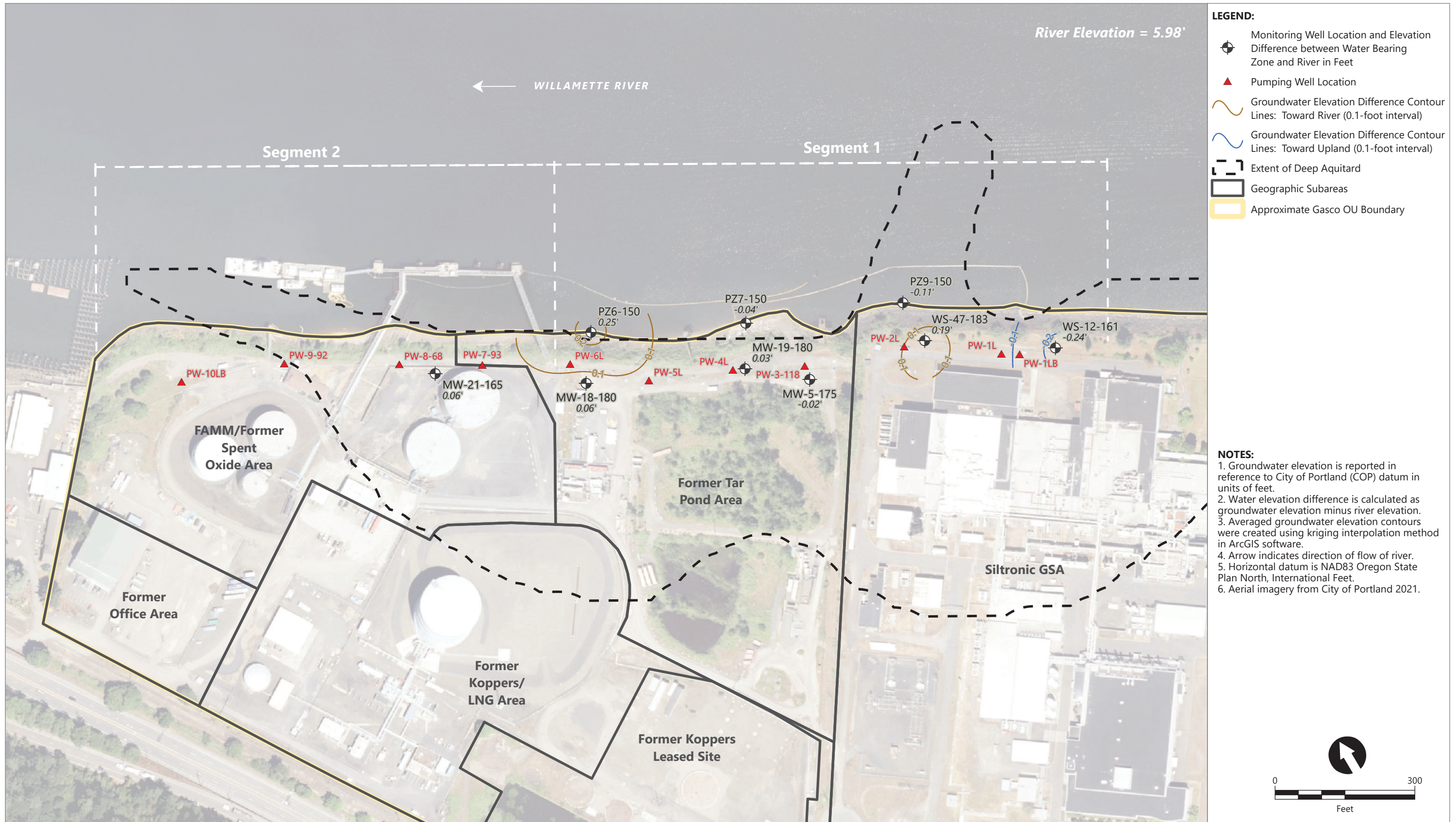


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Figure 3.3b
 Contours of Water Elevation Difference Between Lower Alluvium WBZ and River Using Serfes 3-Day Rolling Averages From 2/11/2023-2/13/2023

NWN Gasco Site
 Portland, Oregon



- LEGEND:**
- Monitoring Well Location and Elevation Difference between Water Bearing Zone and River in Feet
 - Pumping Well Location
 - Groundwater Elevation Difference Contour Lines: Toward River (0.1-foot interval)
 - Groundwater Elevation Difference Contour Lines: Toward Upland (0.1-foot interval)
 - Extent of Deep Aquitard
 - Geographic Subareas
 - Approximate Gasco OU Boundary

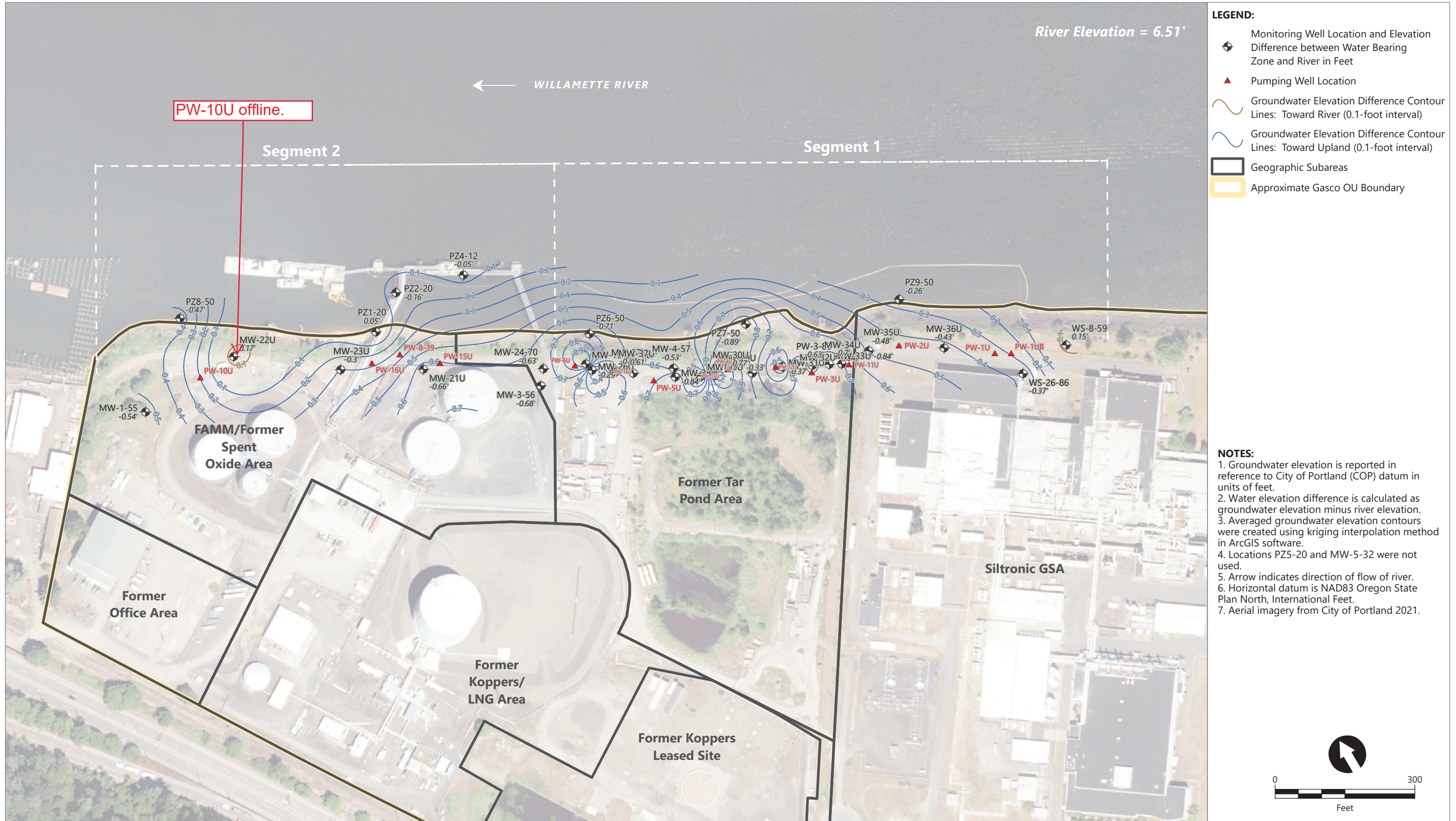
- NOTES:**
1. Groundwater elevation is reported in reference to City of Portland (COP) datum in units of feet.
 2. Water elevation difference is calculated as groundwater elevation minus river elevation.
 3. Averaged groundwater elevation contours were created using kriging interpolation method in ArcGIS software.
 4. Arrow indicates direction of flow of river.
 5. Horizontal datum is NAD83 Oregon State Plan North, International Feet.
 6. Aerial imagery from City of Portland 2021.

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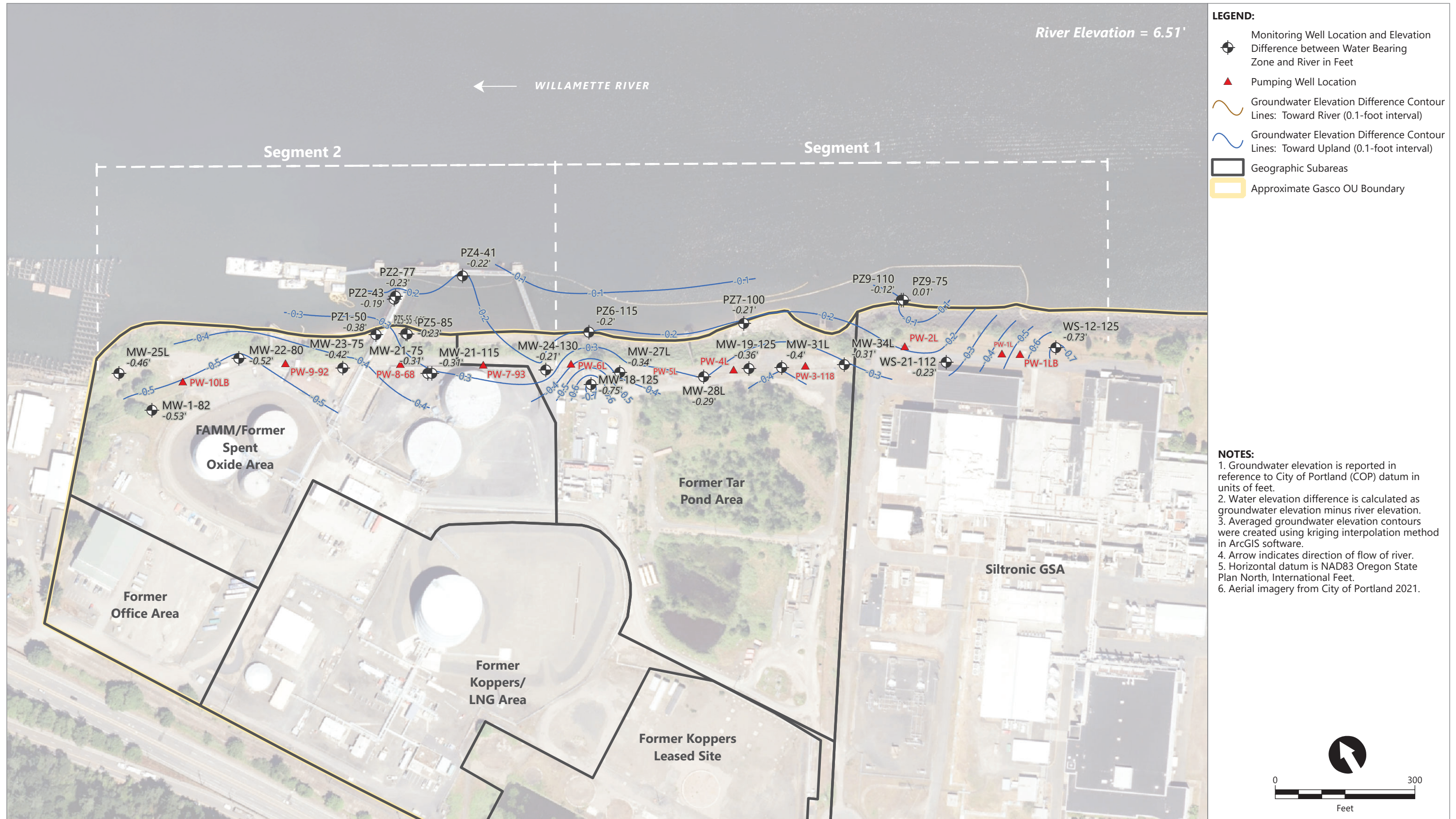


Figure 3.3c
Contours of Water Elevation Difference Between Deep Lower Alluvium WBZ and River Using Serfes 3-Day Rolling Averages From 2/11/2023-2/13/2023

NWN Gasco Site
 Portland, Oregon



Publish Date: 2023/08/09, 1:49 PM | User: cgardner
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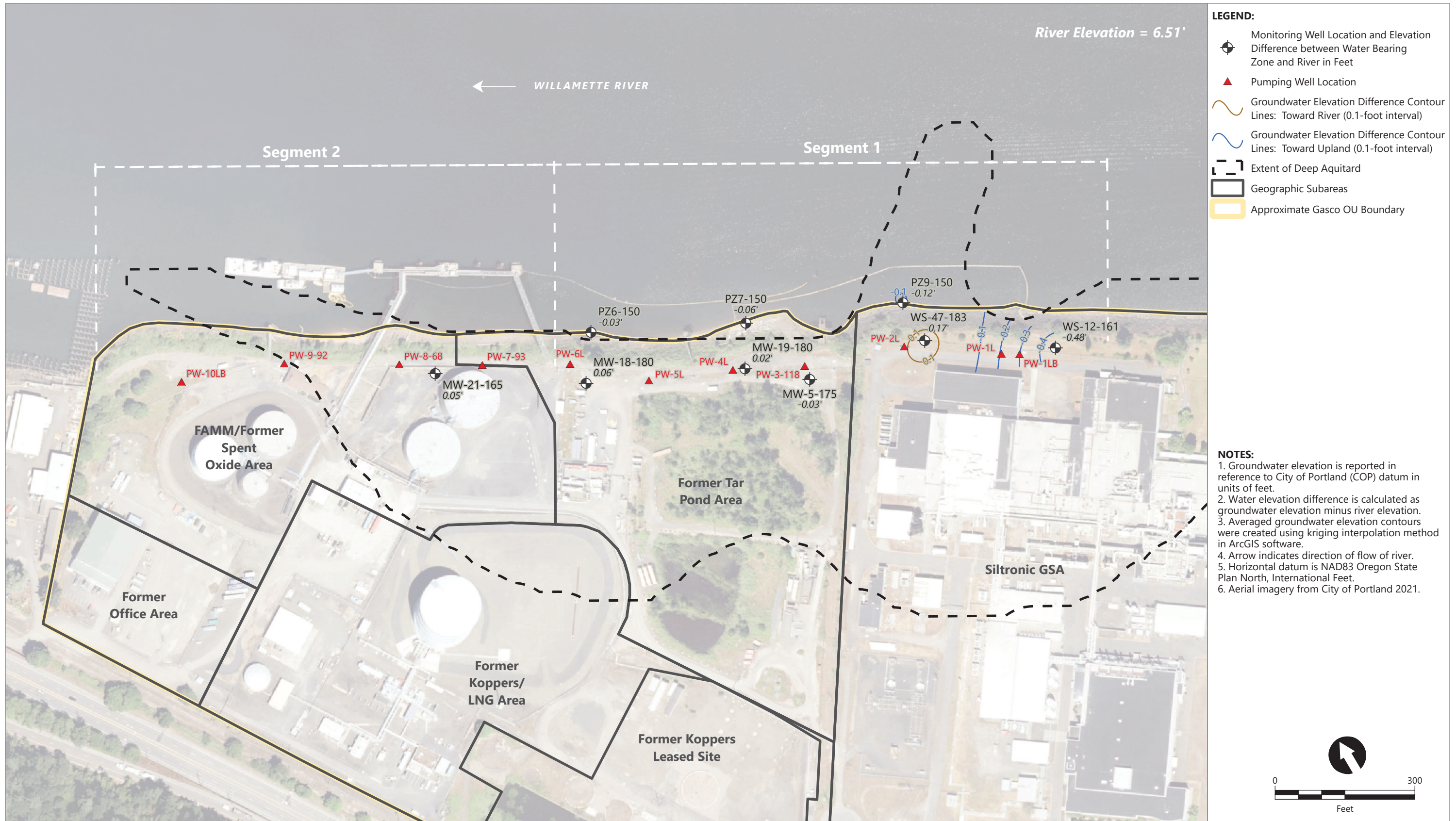


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Figure 3.4b
Contours of Water Elevation Difference Between Lower Alluvium WBZ and River Using Serfes 3-Day Rolling Averages From 2/24/2023-2/26/2023

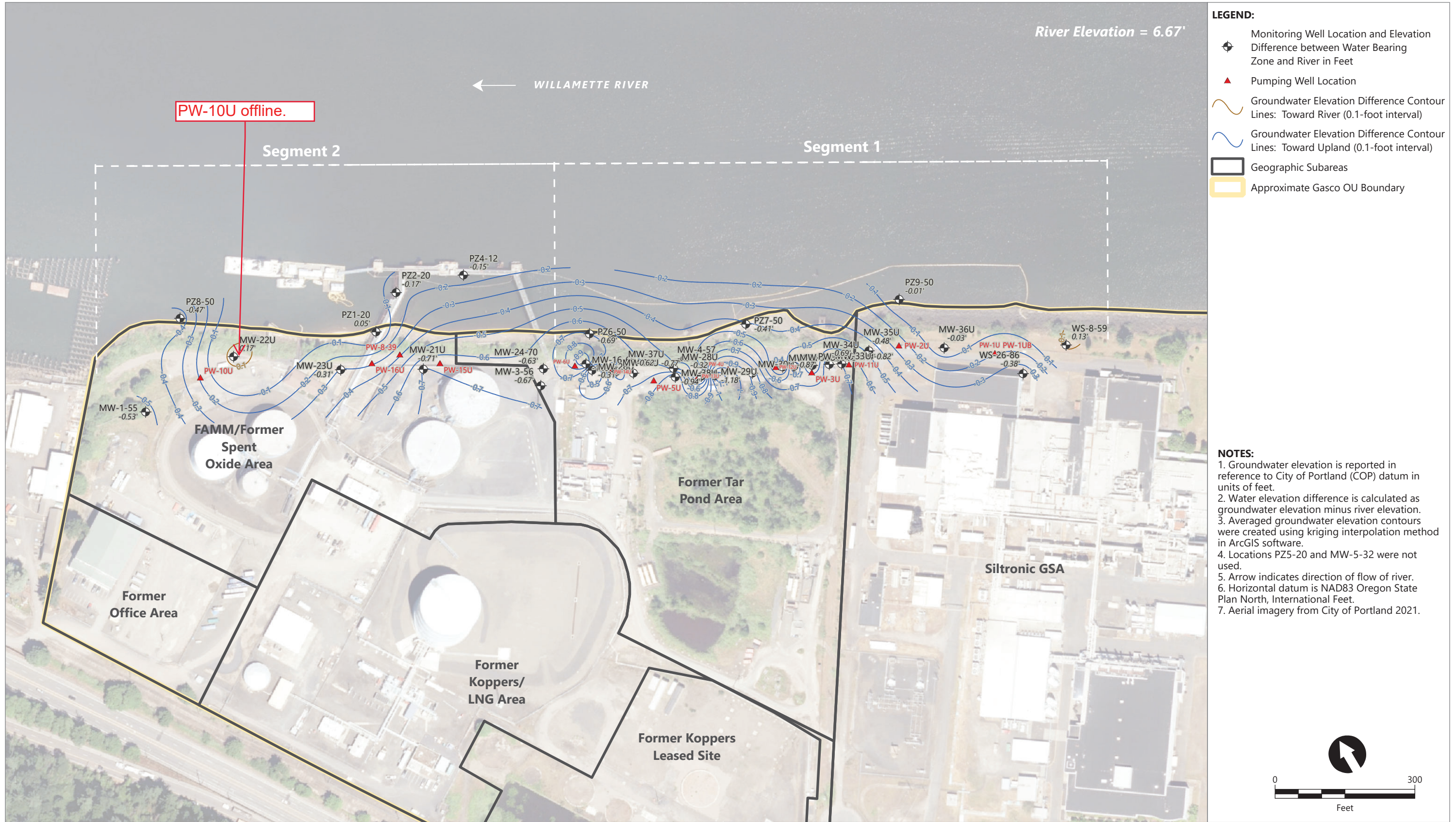
NWN Gasco Site
 Portland, Oregon



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Figure 3.4c
Contours of Water Elevation Difference Between Deep Lower Alluvium WBZ and River Using Serfes 3-Day Rolling Averages From 2/24/2023-2/26/2023

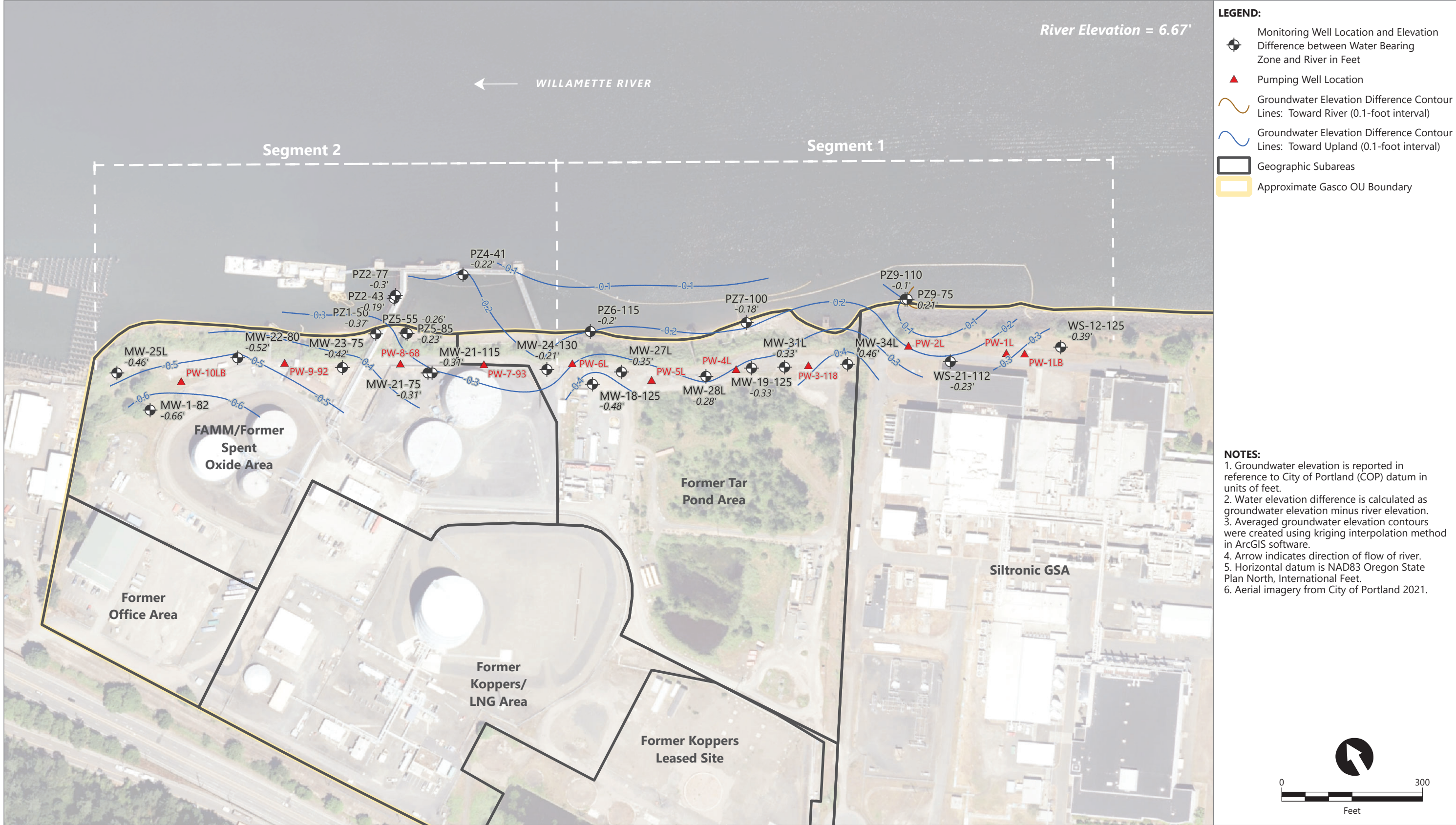


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Figure 3.5a
Contours of Water Elevation Difference Between Upper Alluvium WBZ and River Using Serfes 3-Day Rolling Averages From 3/11/2023-3/13/2023

NWN Gasco Site
 Portland, Oregon

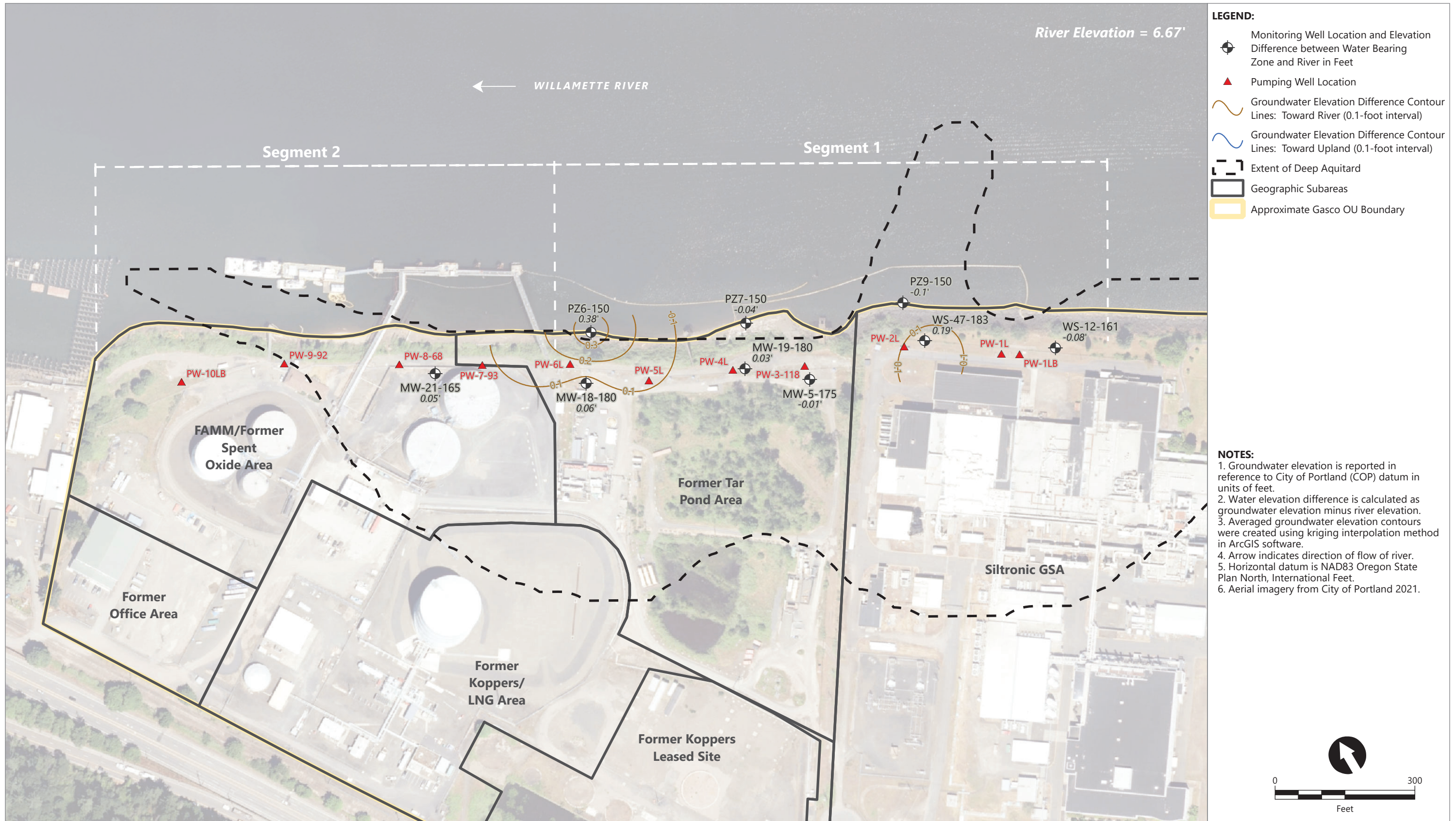


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Figure 3.5b
Contours of Water Elevation Difference Between Lower Alluvium WBZ and River Using Serfes 3-Day Rolling Averages From 3/11/2023-3/13/2023

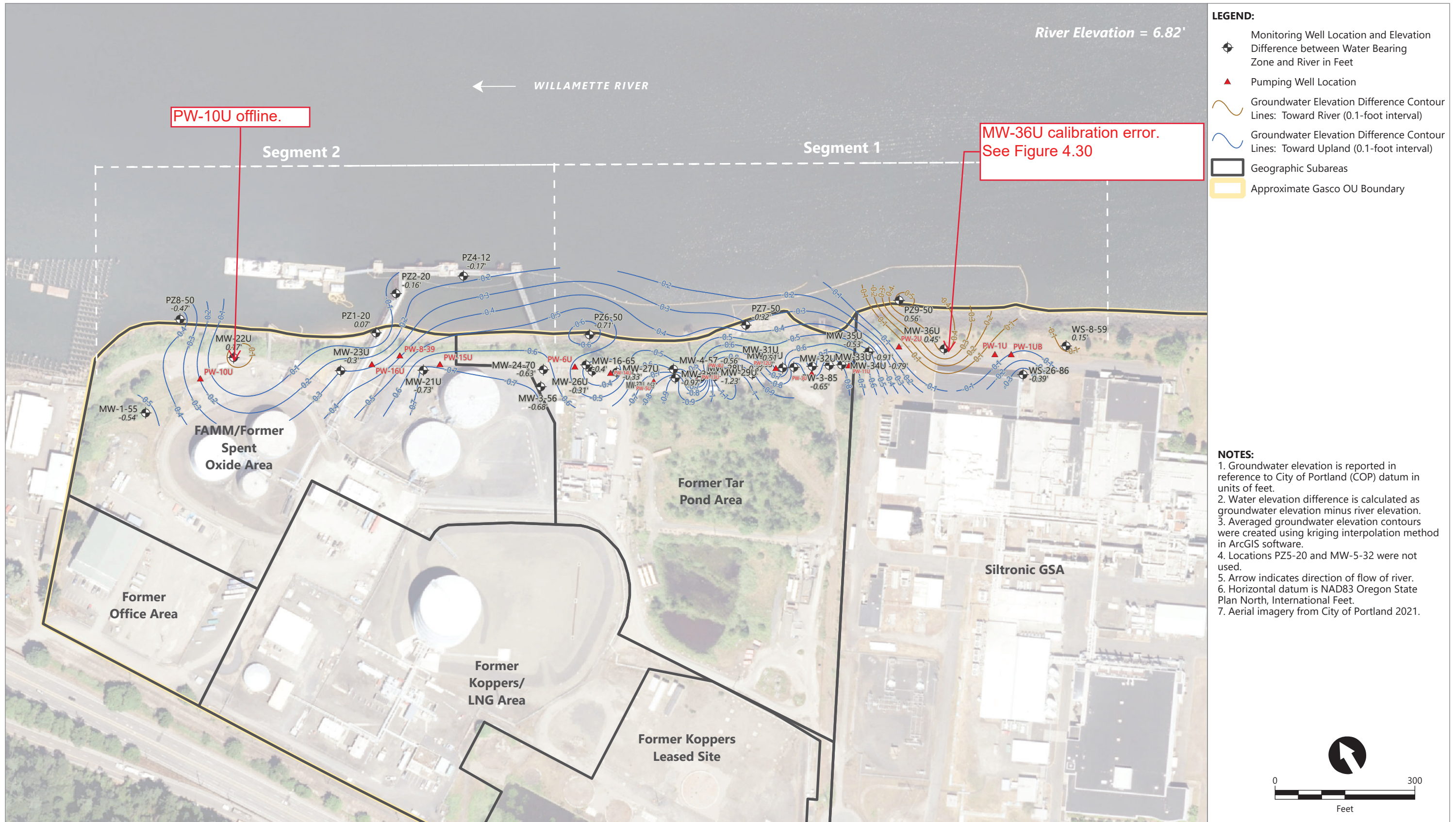
NWN Gasco Site
 Portland, Oregon



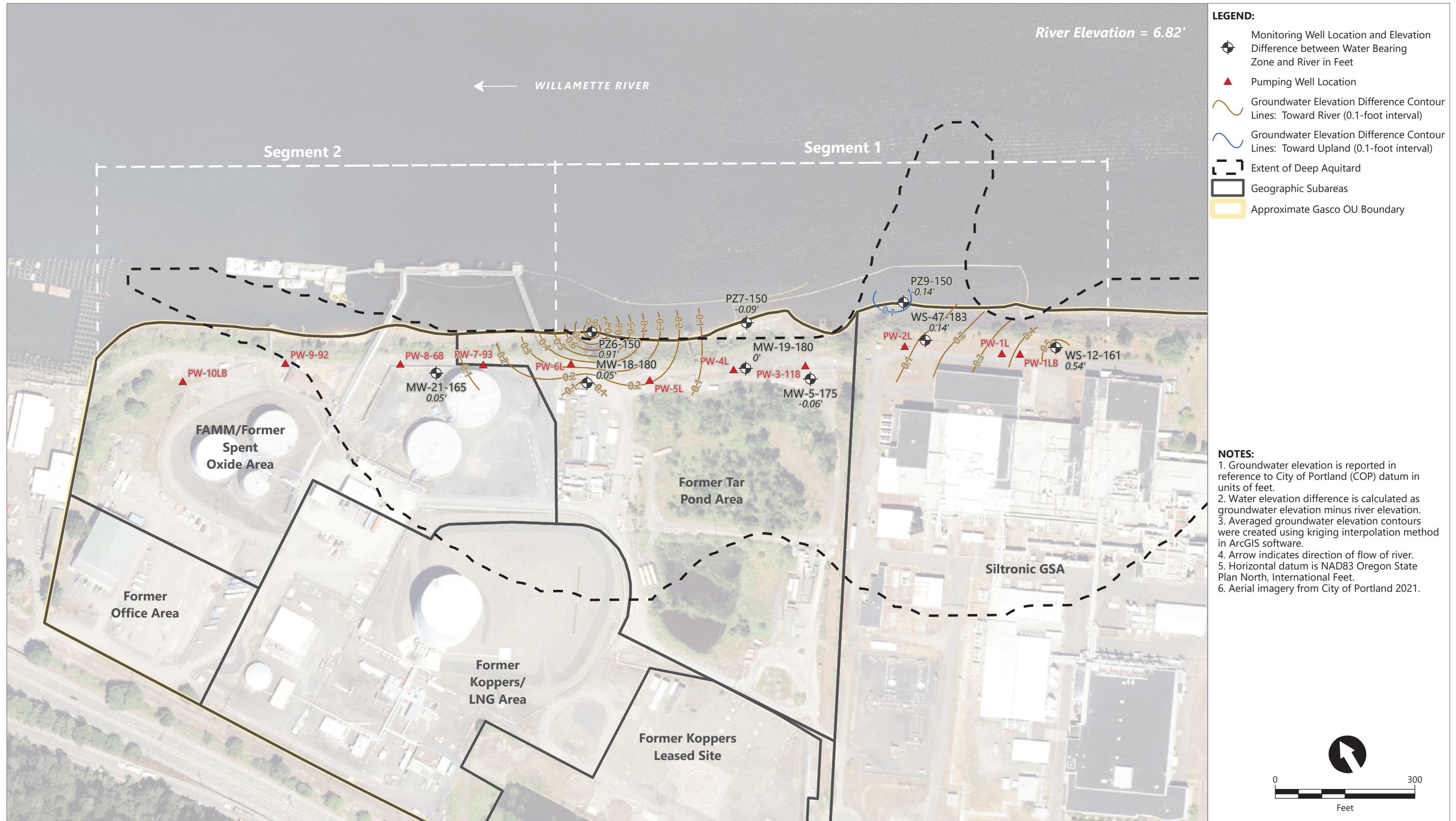
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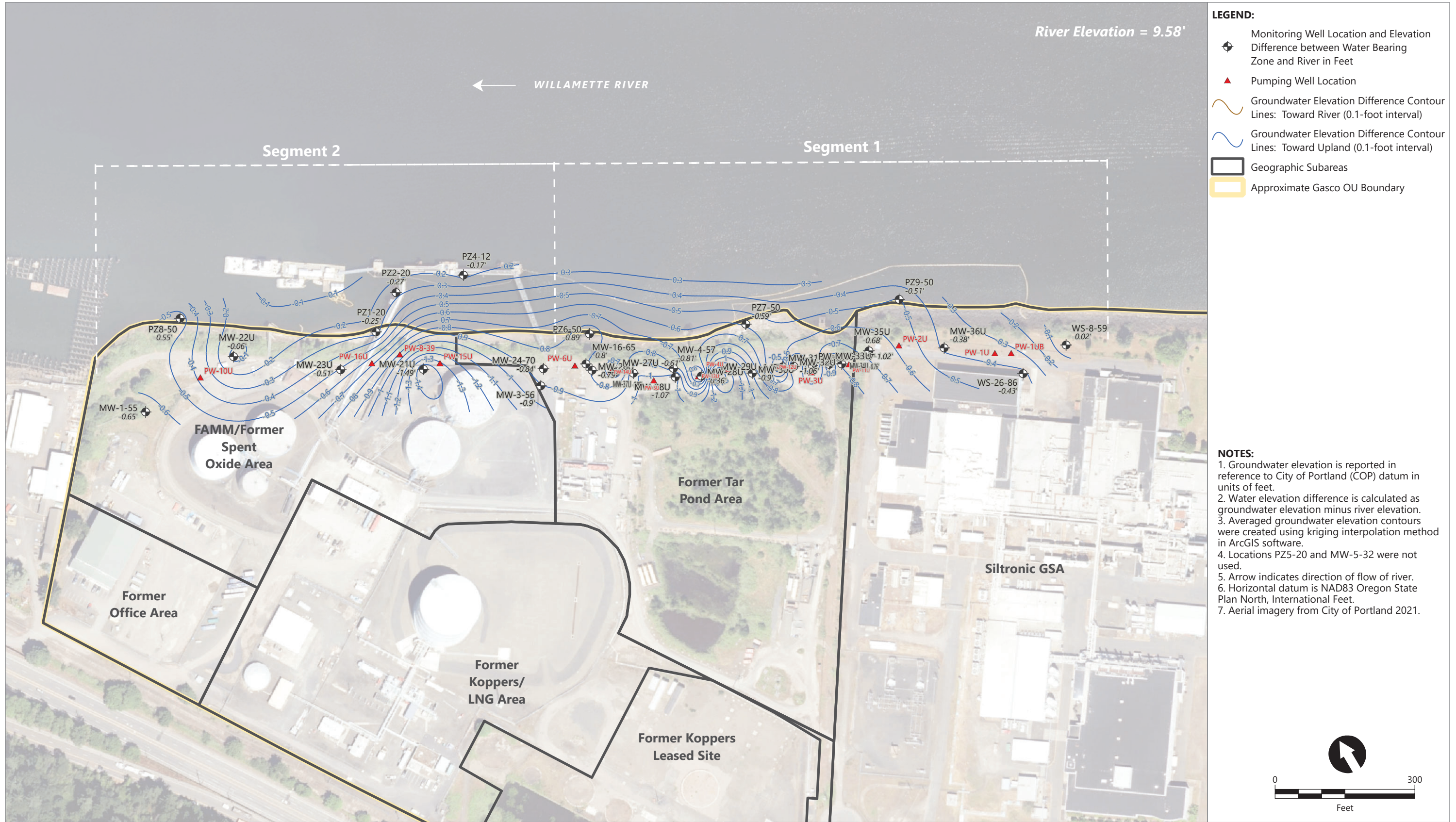
Figure 3.5c
Contours of Water Elevation Difference Between Deep Lower Alluvium WBZ and River Using Serfes 3-Day Rolling Averages From 3/11/2023-3/13/2023



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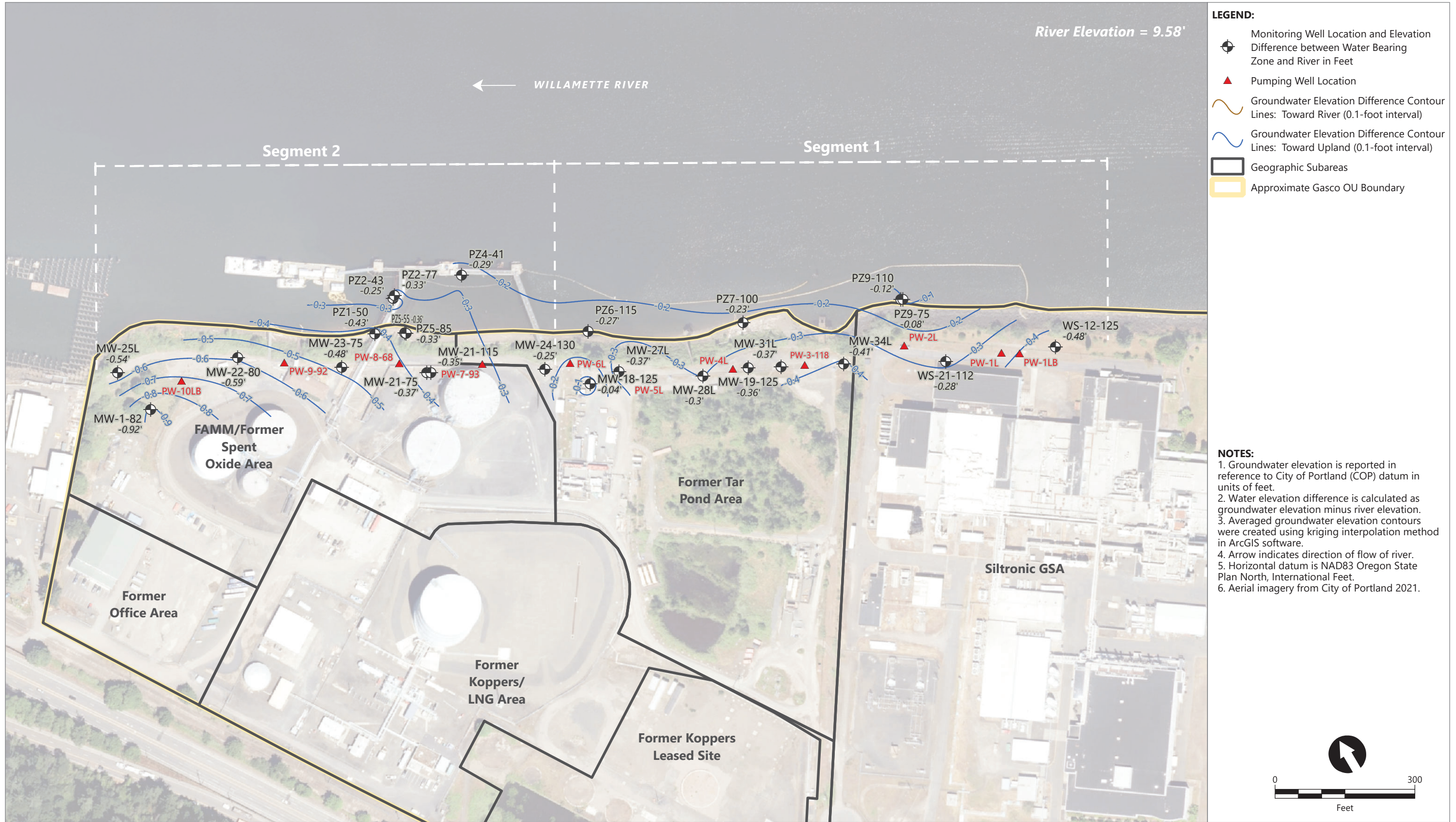


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Figure 3.7a
Contours of Water Elevation Difference Between Upper Alluvium WBZ and River Using Serfes 3-Day Rolling Averages From 4/11/2023-4/13/2023

NWN Gasco Site
 Portland, Oregon

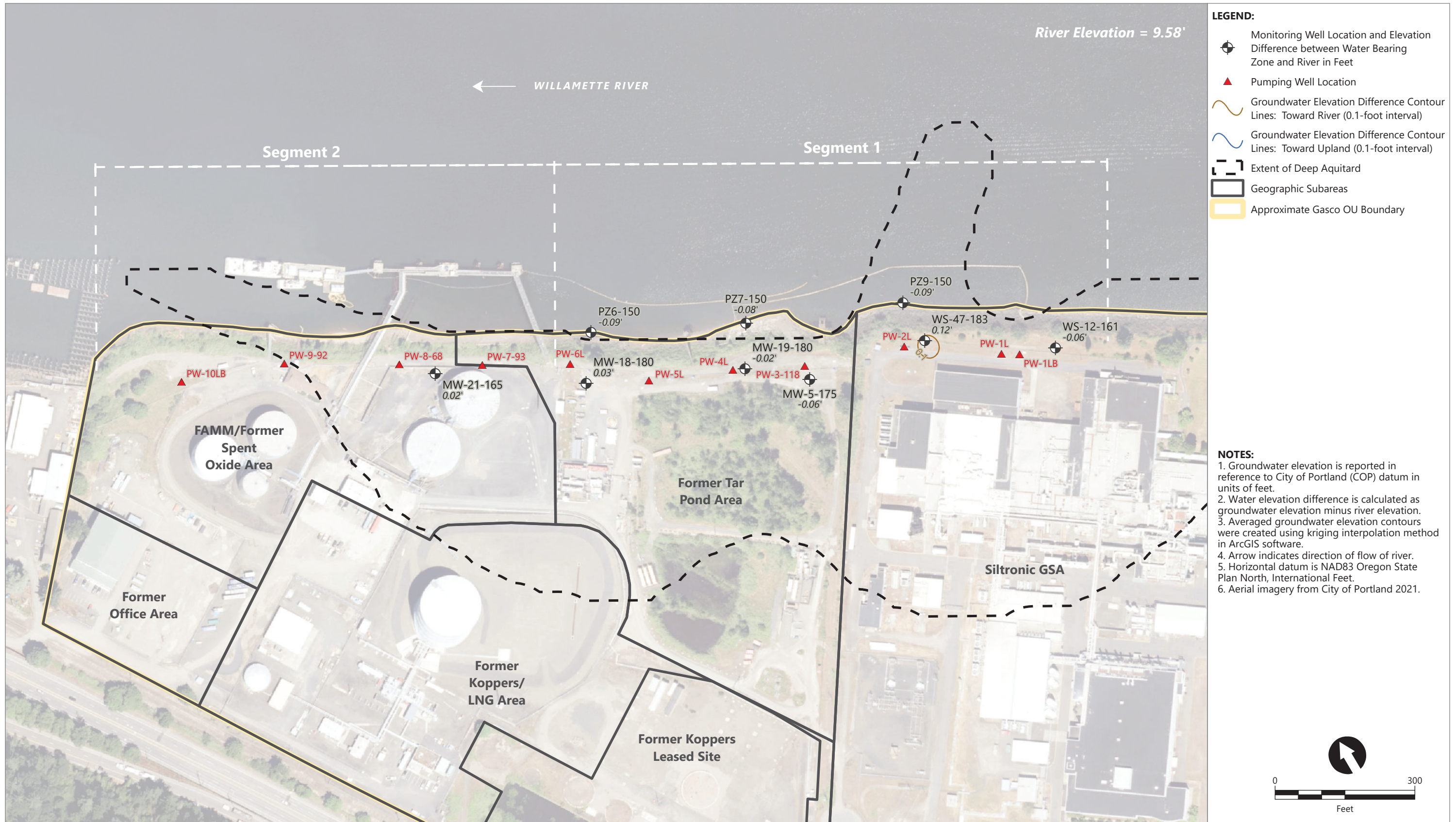


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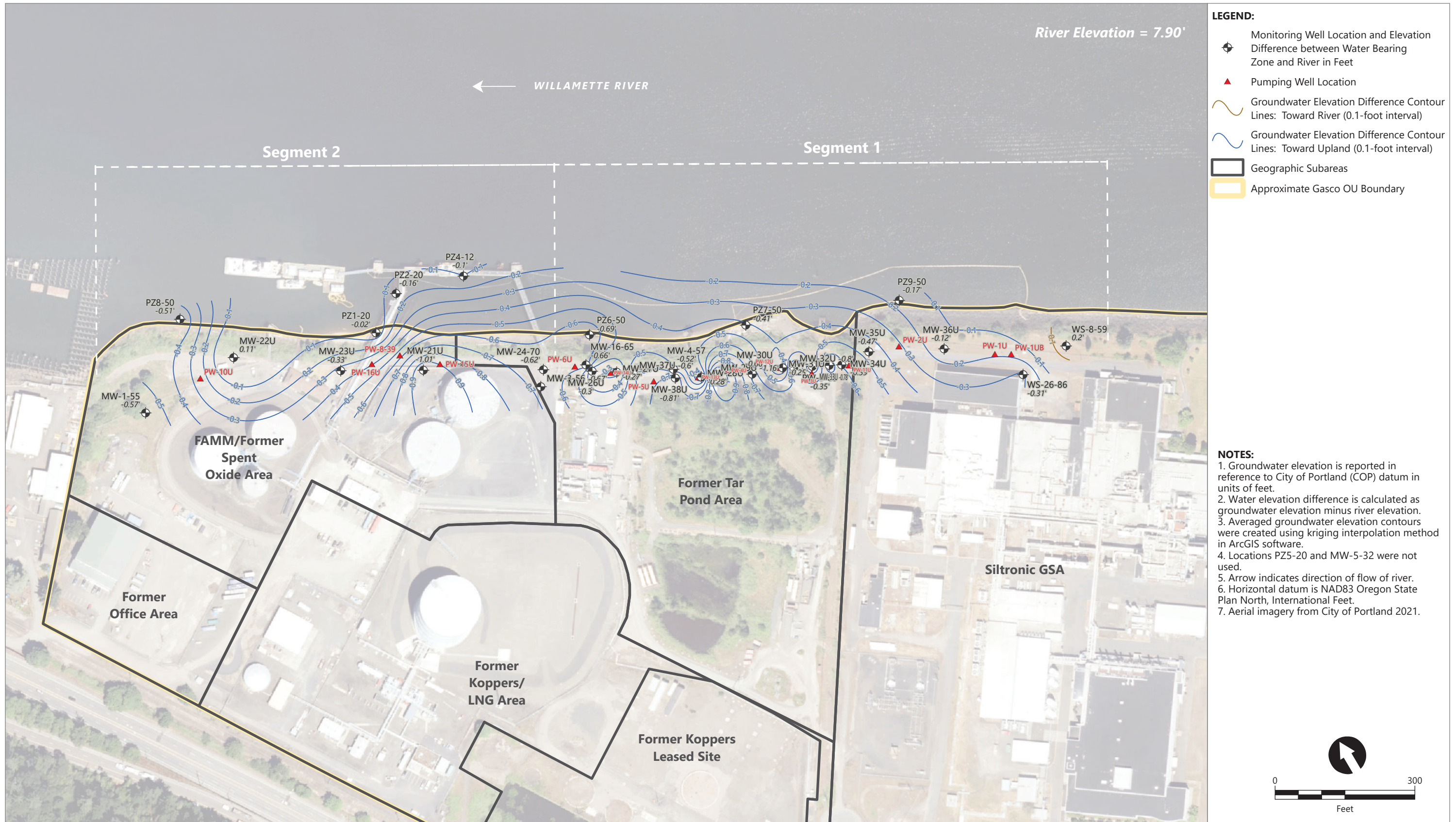


Figure 3.7b
Contours of Water Elevation Difference Between Lower Alluvium WBZ and River Using Serfes 3-Day Rolling Averages From 4/11/2023-4/13/2023

NWN Gasco Site
 Portland, Oregon



Publish Date: 2023/08/07, 1:32 PM | User: cgardner
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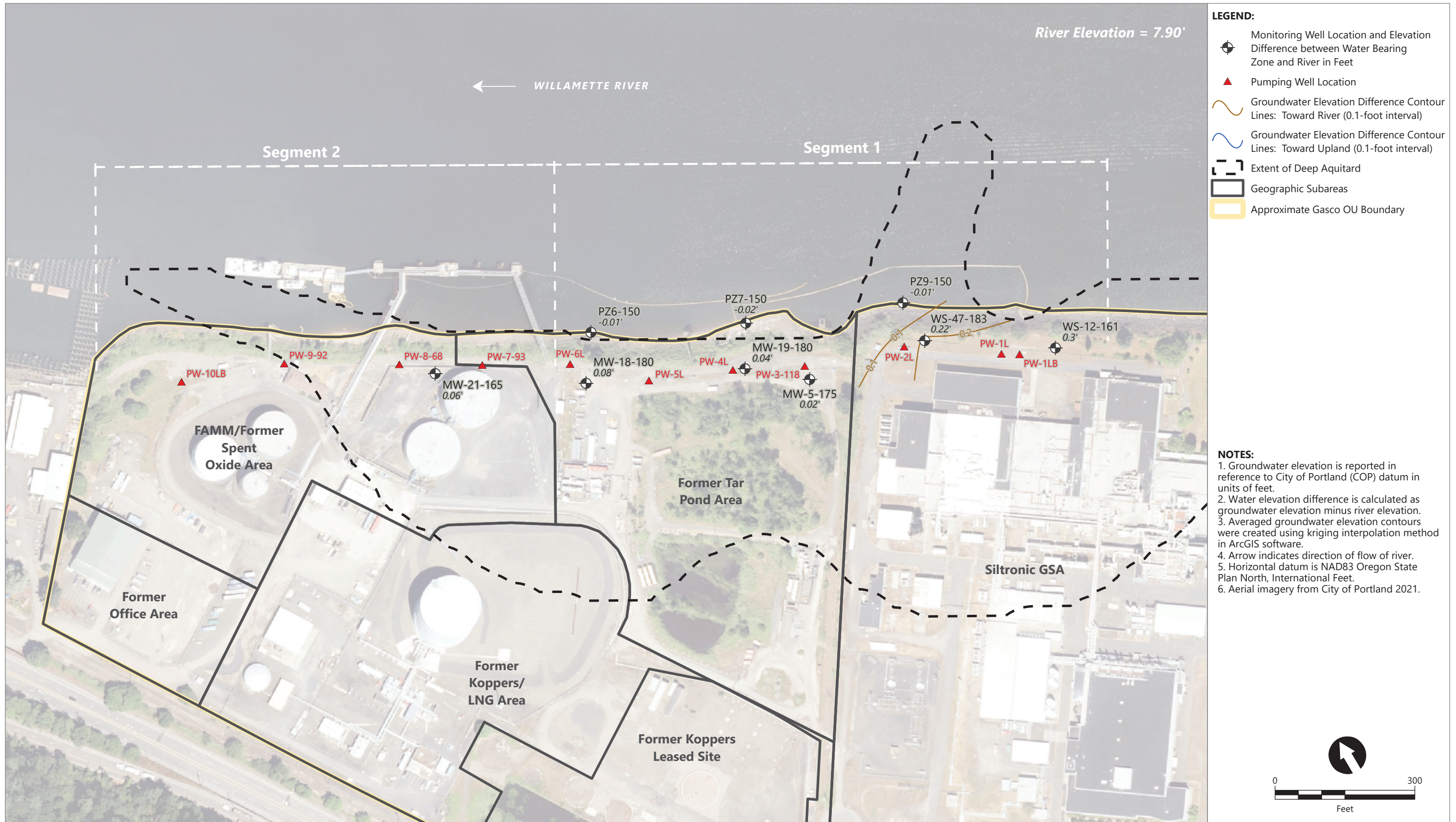


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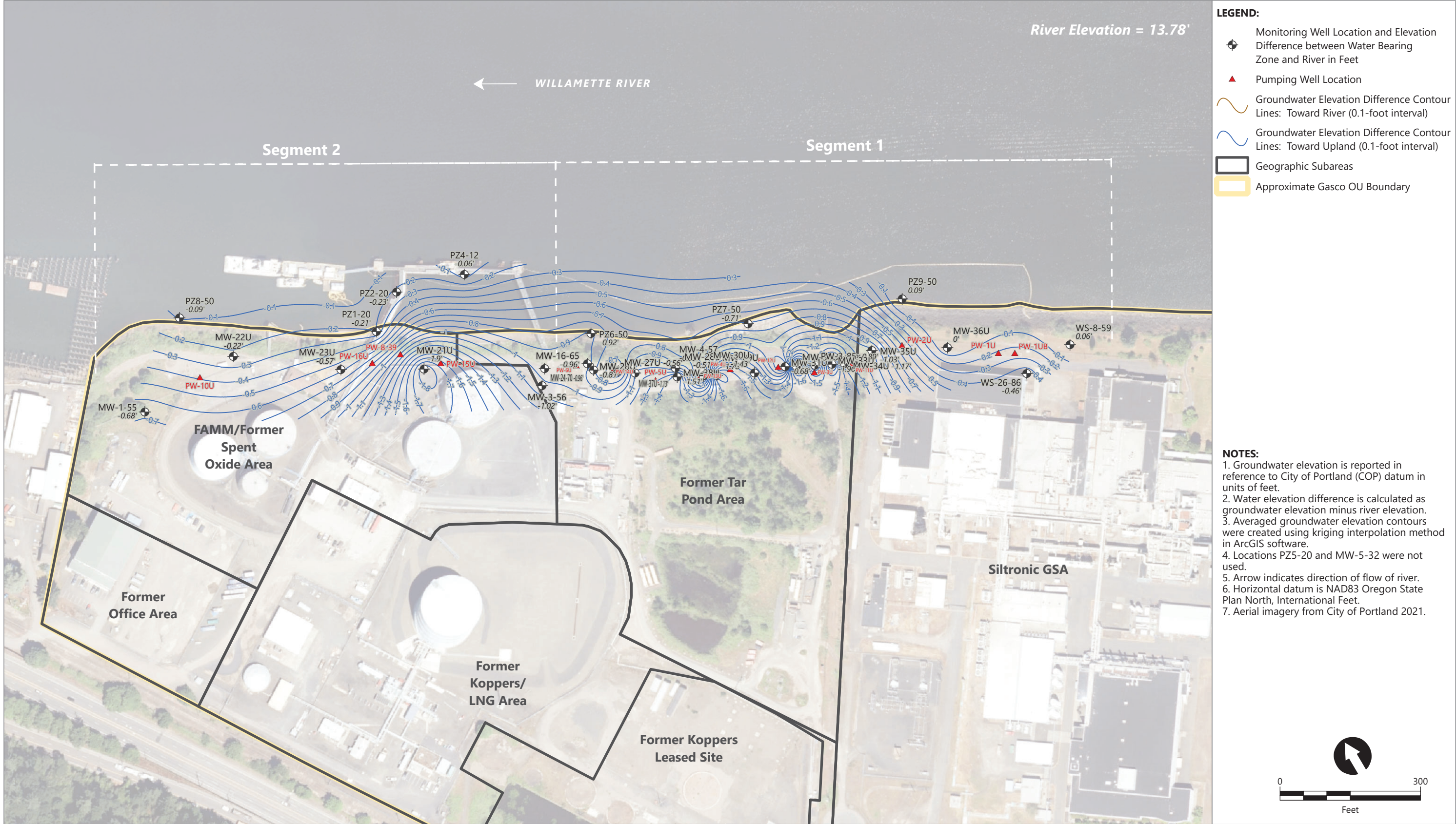


Figure 3.8a
Contours of Water Elevation Difference Between Upper Alluvium WBZ and River Using Serfes 3-Day Rolling Averages From 4/24/2023-4/26/2023

NWN Gasco Site
 Portland, Oregon

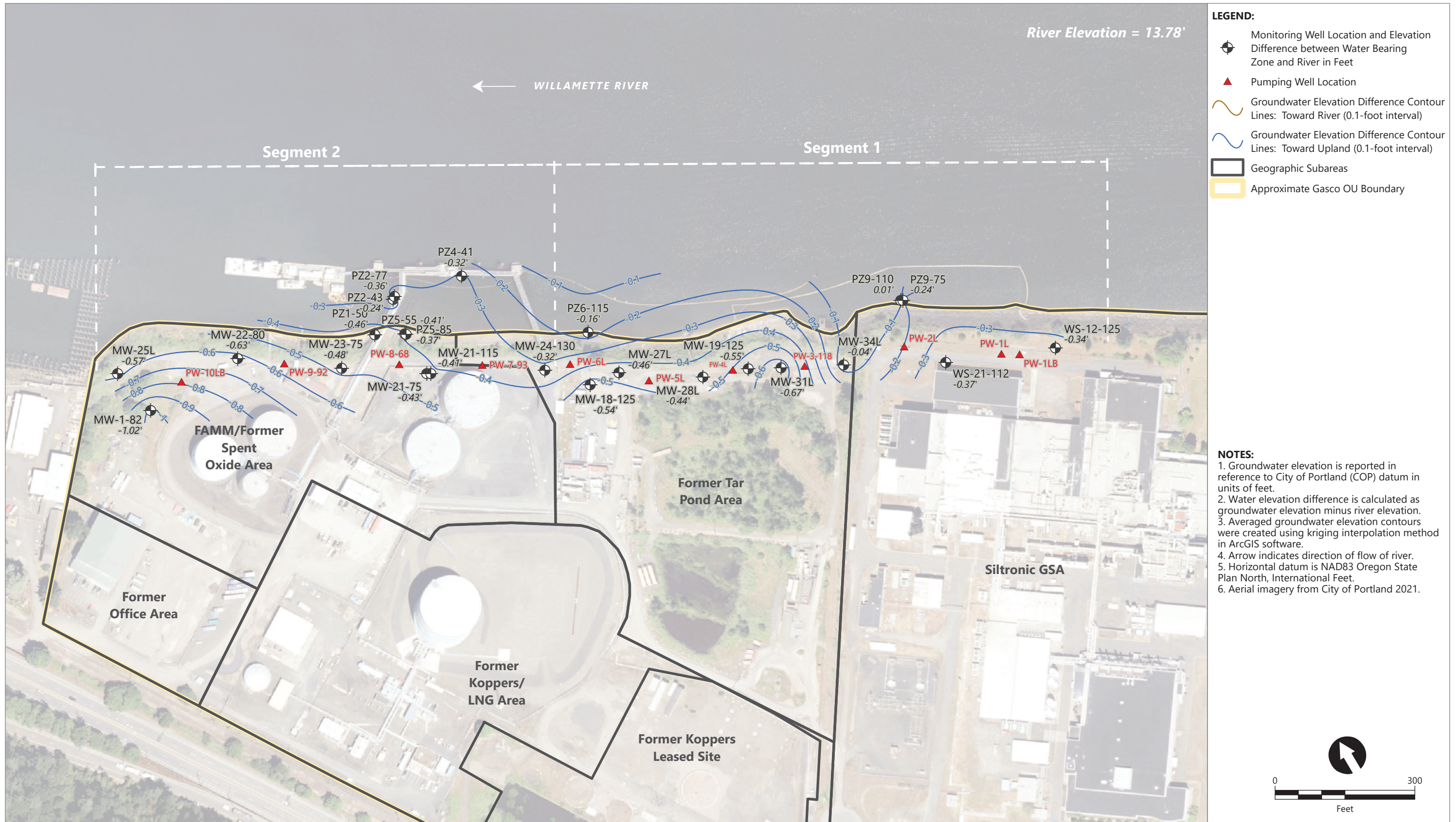


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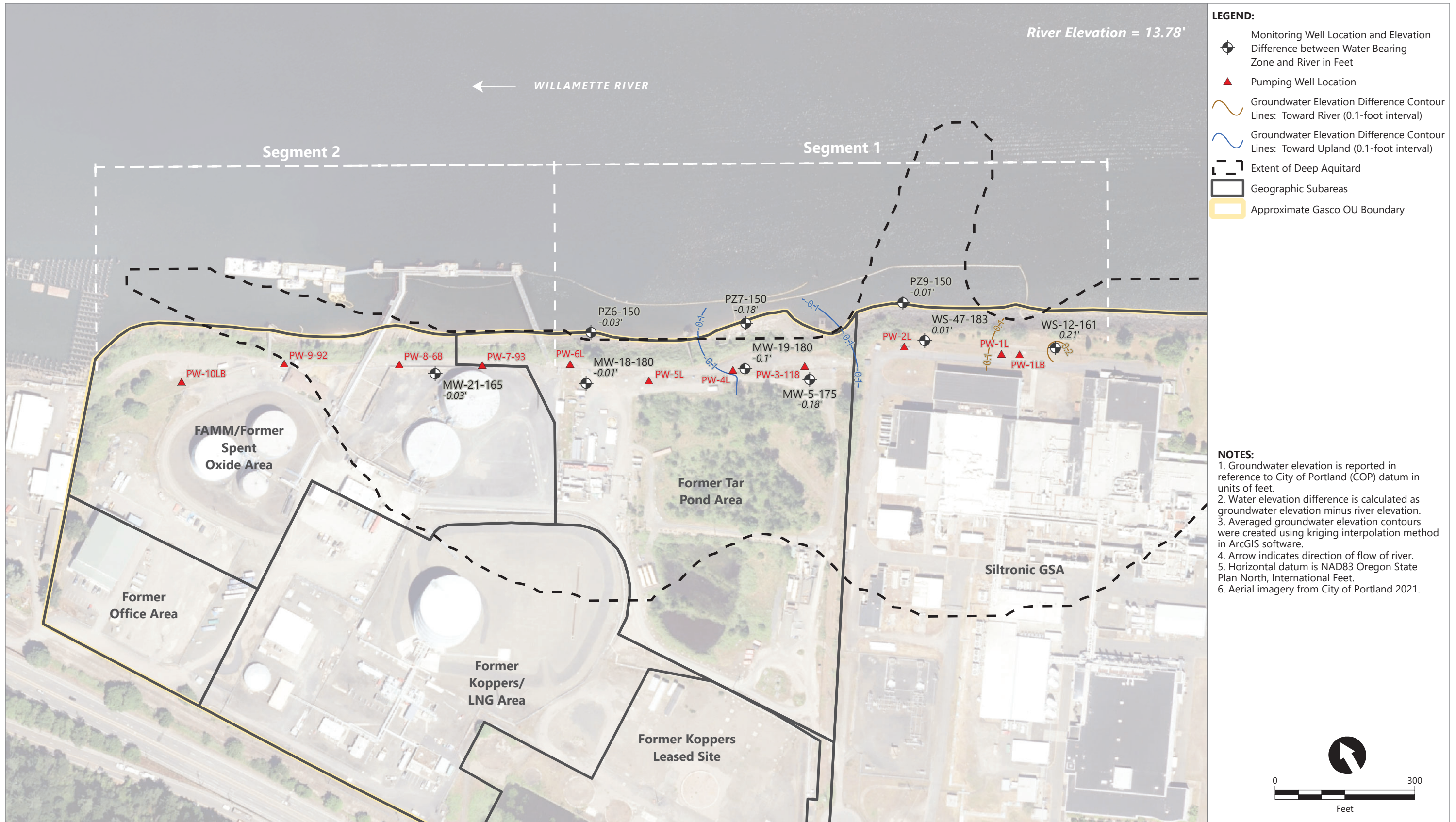


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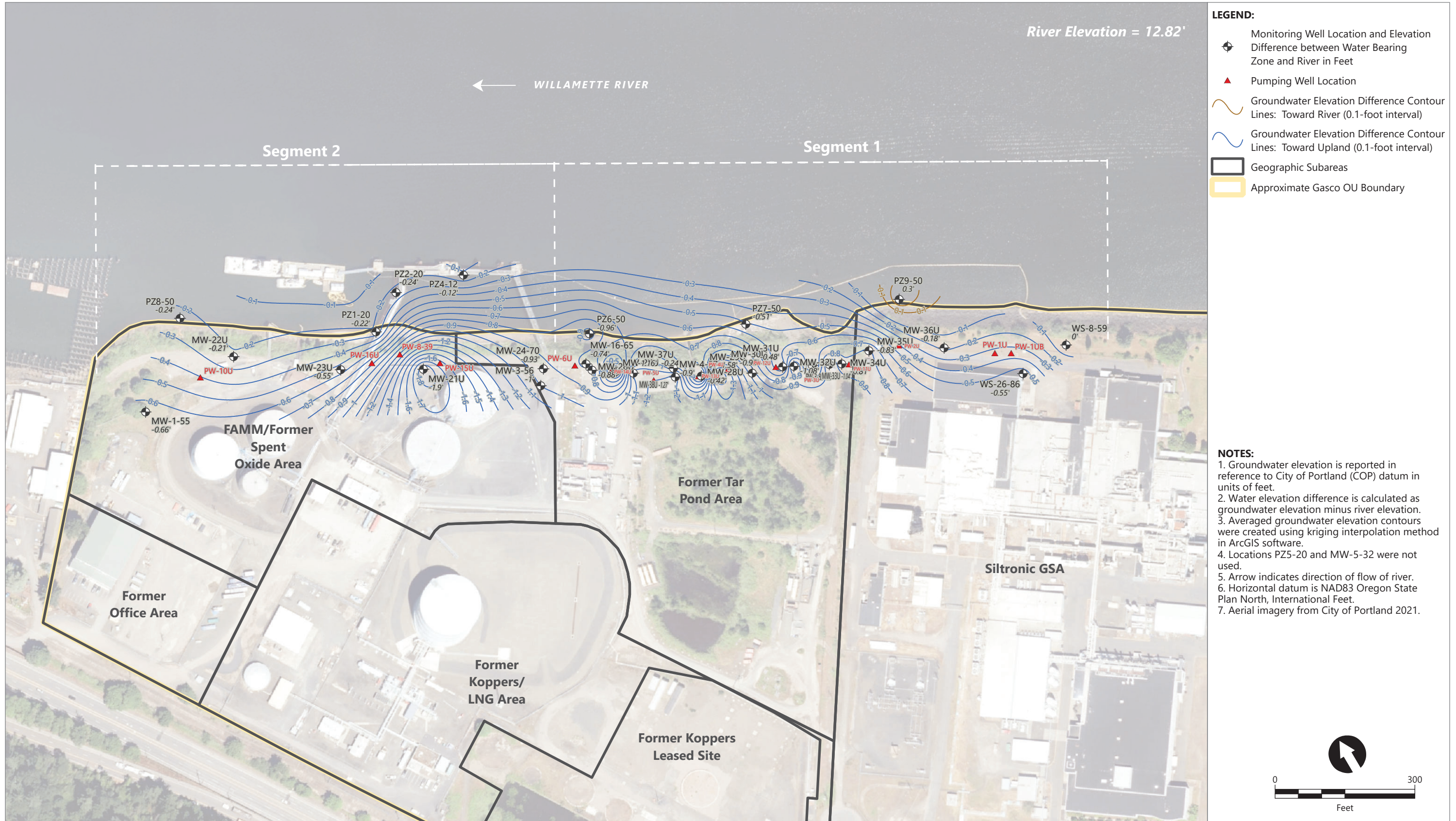
Figure 3.10a
 Contours of Water Elevation Difference Between Upper Alluvium WBZ and River Using Serfes 3-Day Rolling Averages From 5/24/2023-5/26/2023



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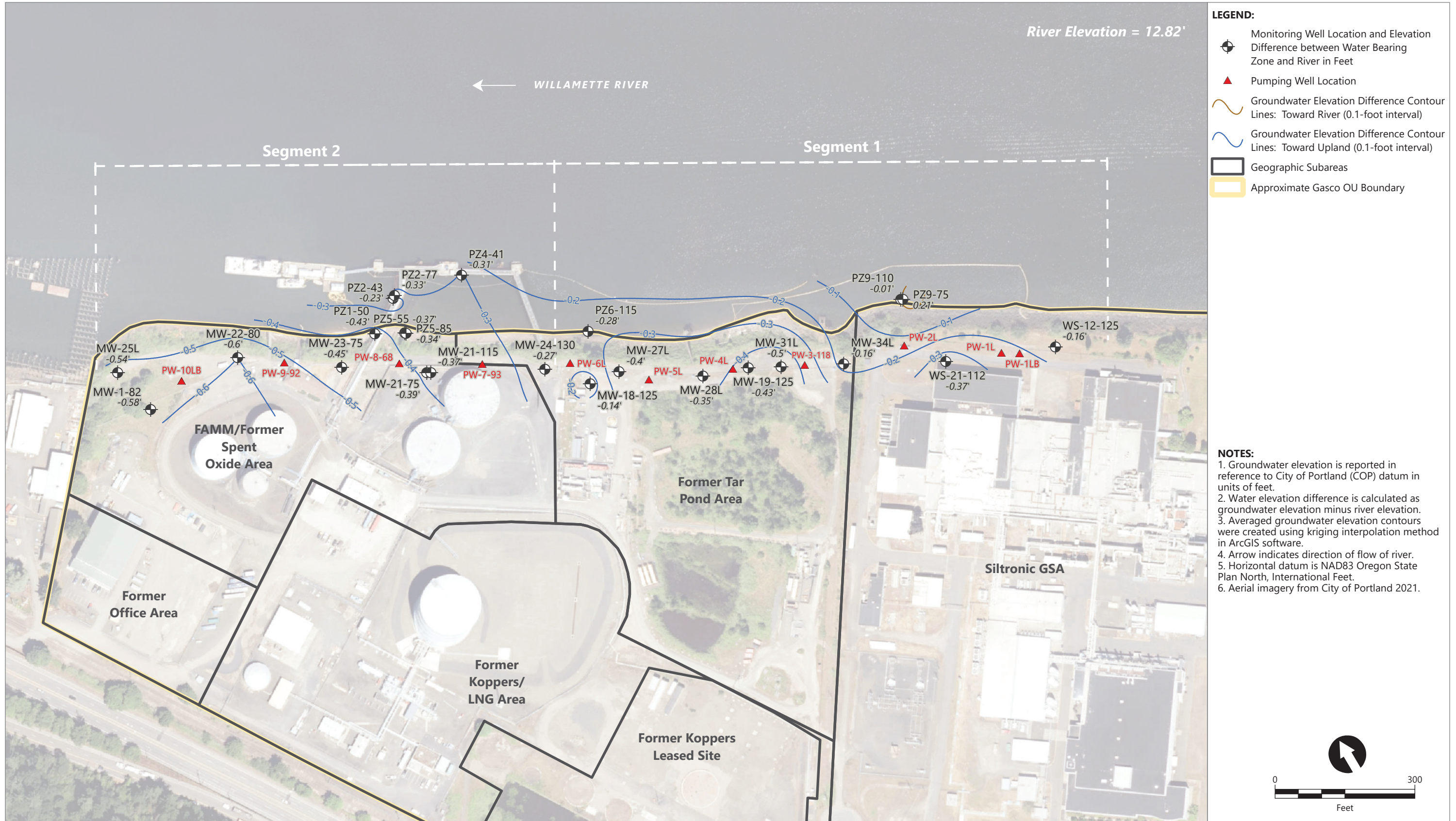


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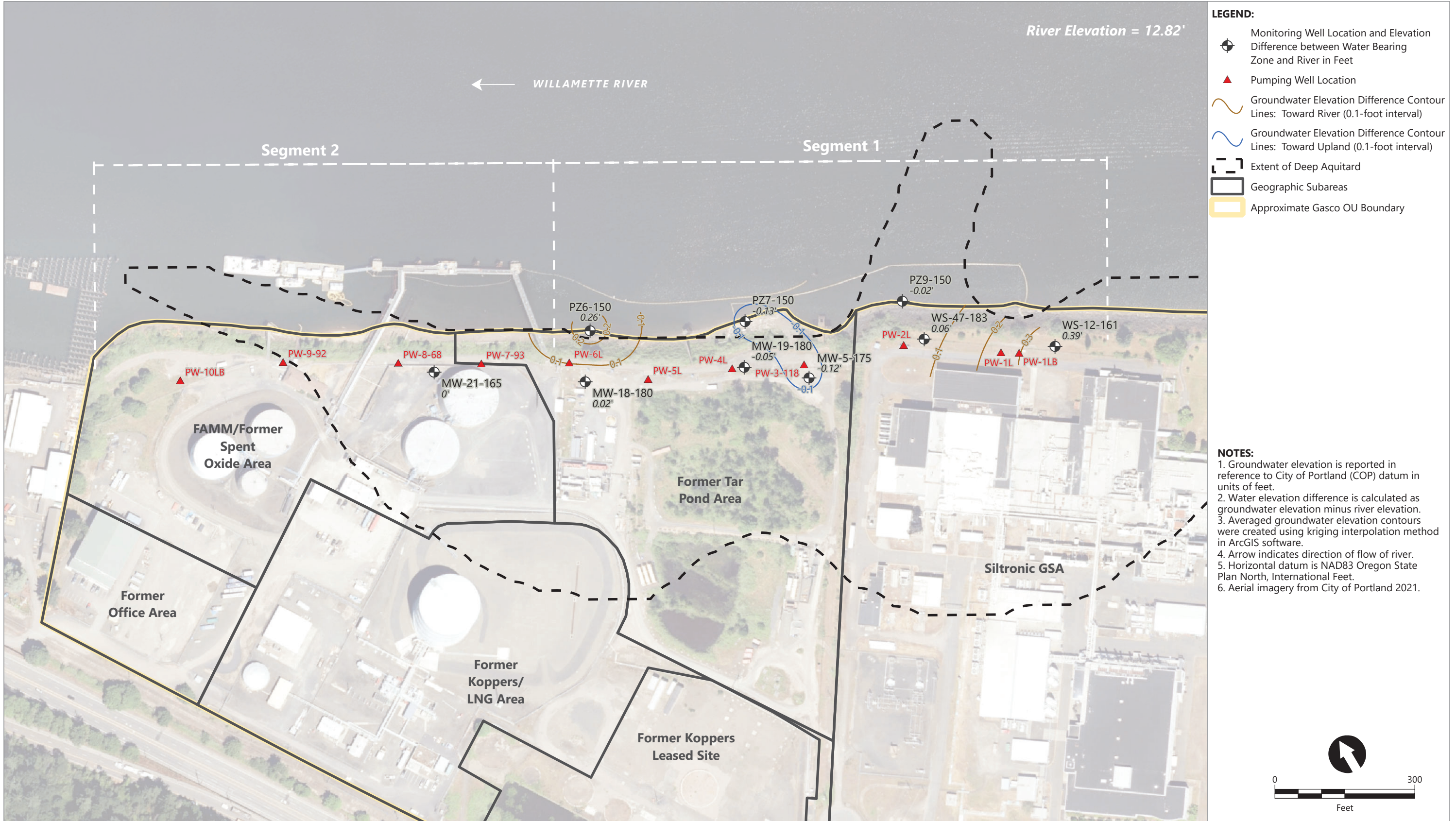


Figure 3.9a
Contours of Water Elevation Difference Between Upper Alluvium WBZ and River Using Serfes 3-Day Rolling Averages From 5/11/2023-5/13/2023

NWN Gasco Site
 Portland, Oregon



Publish Date: 2023/08/07, 2:55 PM | User: cgardner
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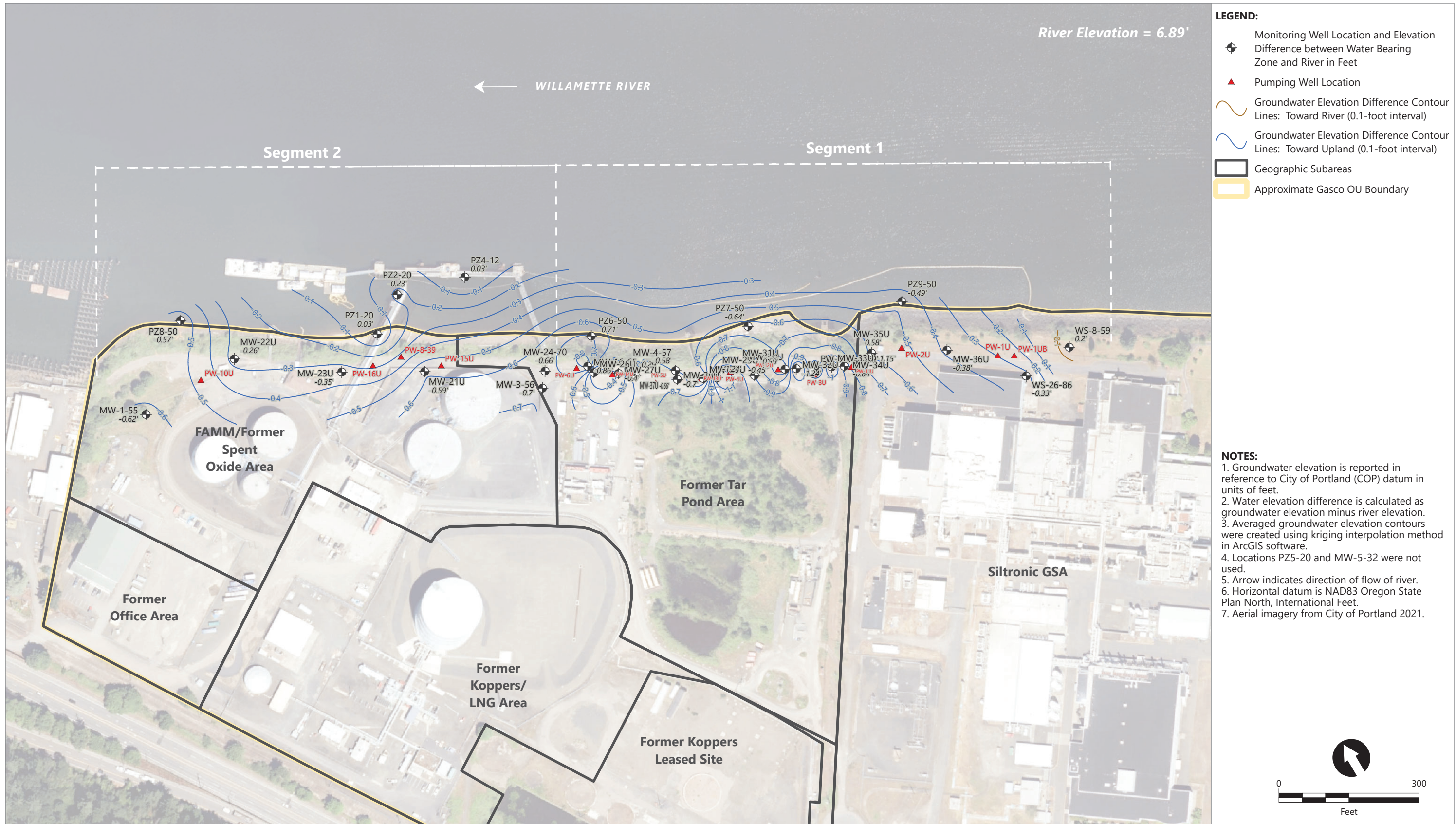


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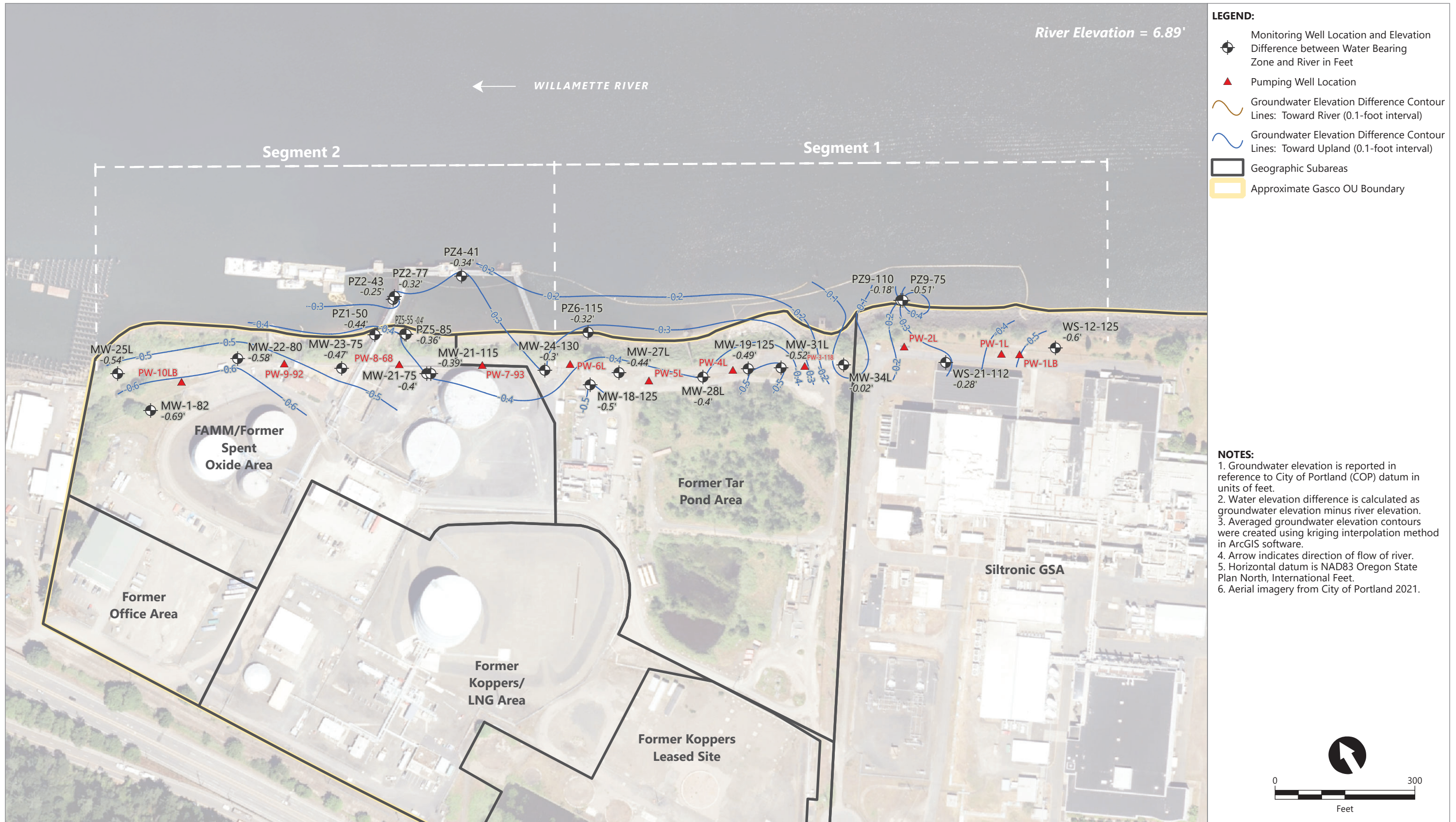


Figure 3.9c
Contours of Water Elevation Difference Between Deep Lower Alluvium WBZ and River Using Serfes 3-Day Rolling Averages From 5/11/2023-5/13/2023

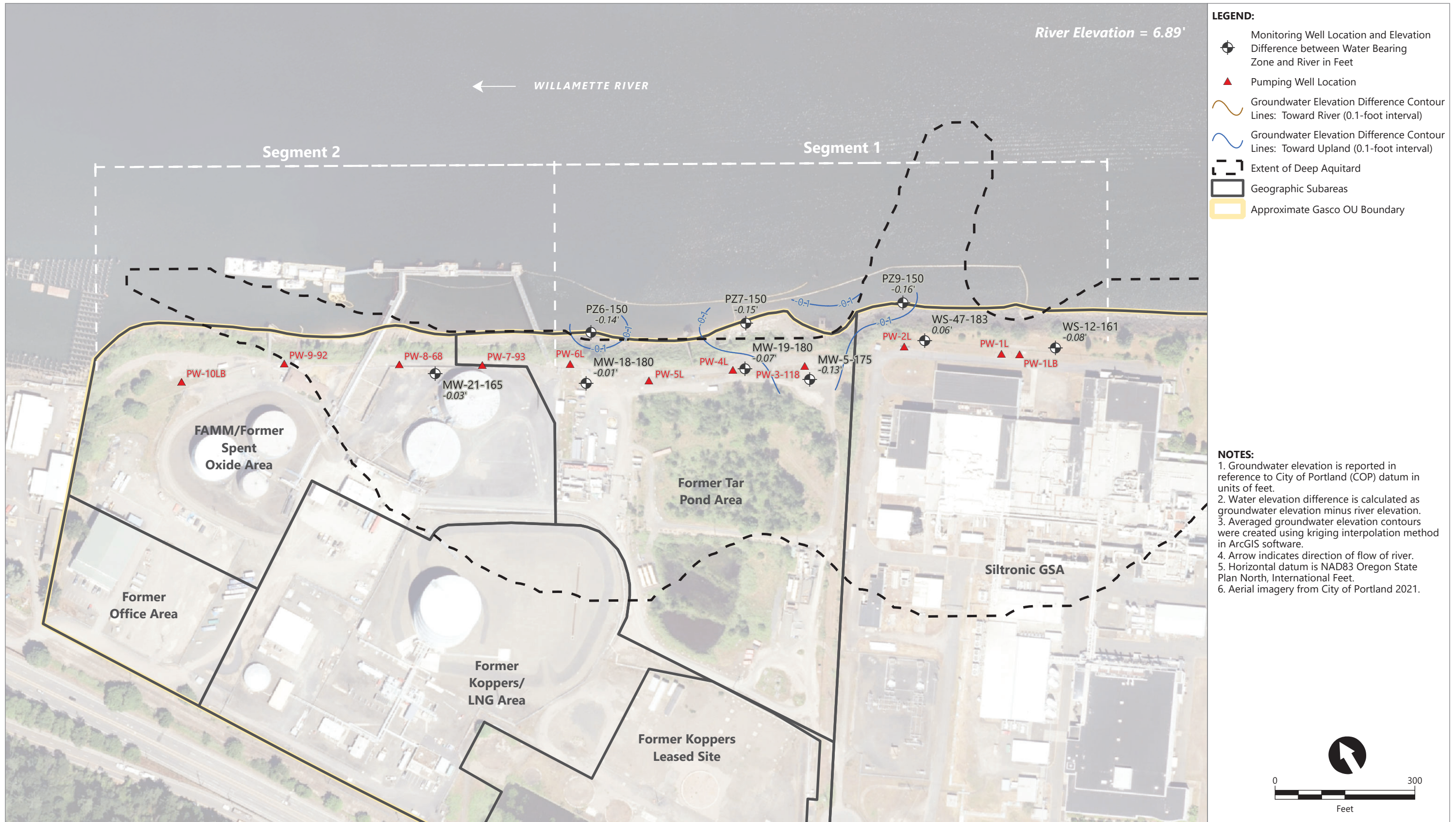
NWN Gasco Site
Portland, Oregon



Publish Date: 2023/08/09, 1:39 PM | User: cgardner
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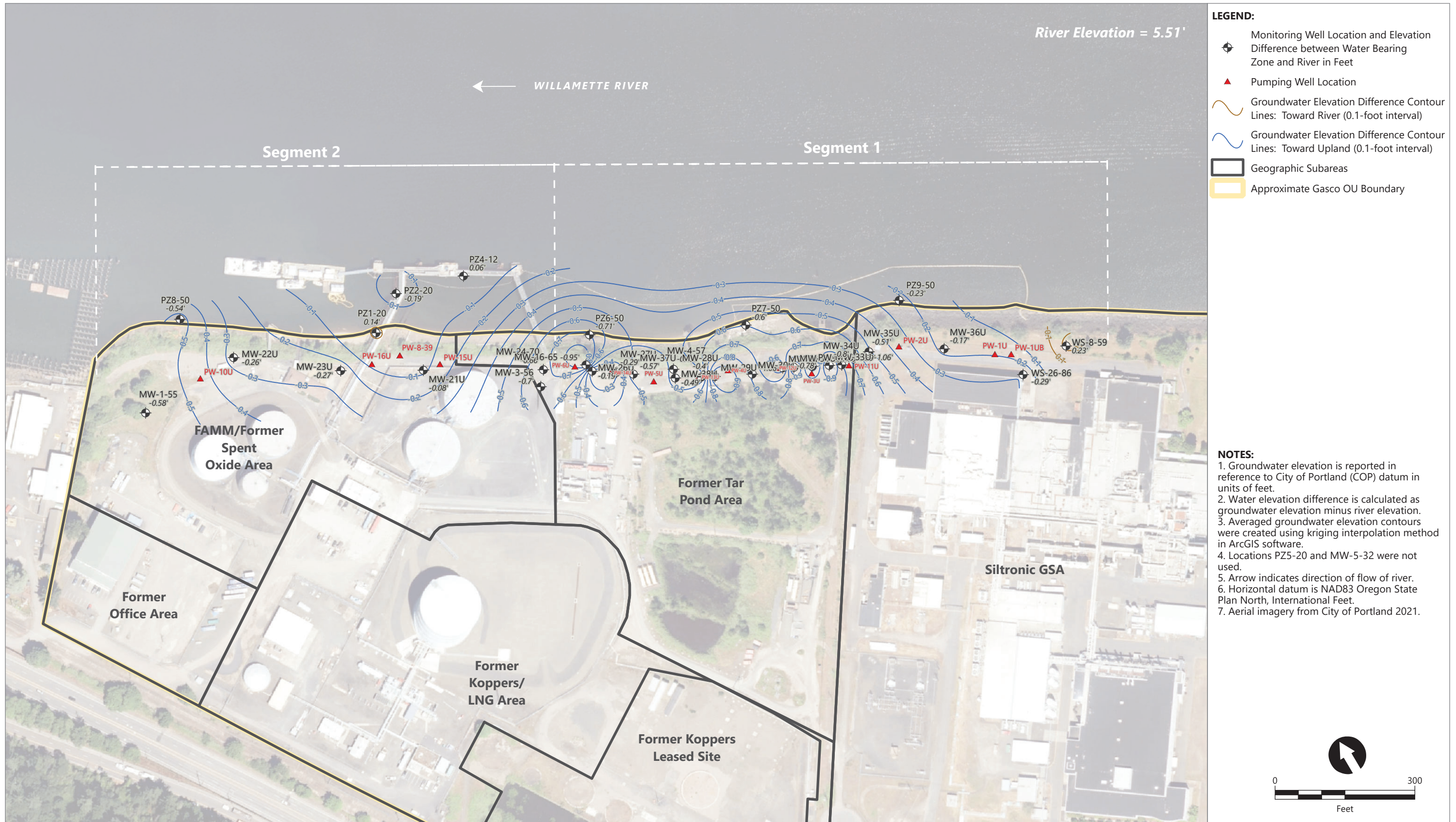


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Figure 3.11c
Contours of Water Elevation Difference Between Deep Lower Alluvium WBZ and River Using Serfes 3-Day Rolling Averages From 6/11/2023-6/13/2023

NWN Gasco Site
 Portland, Oregon

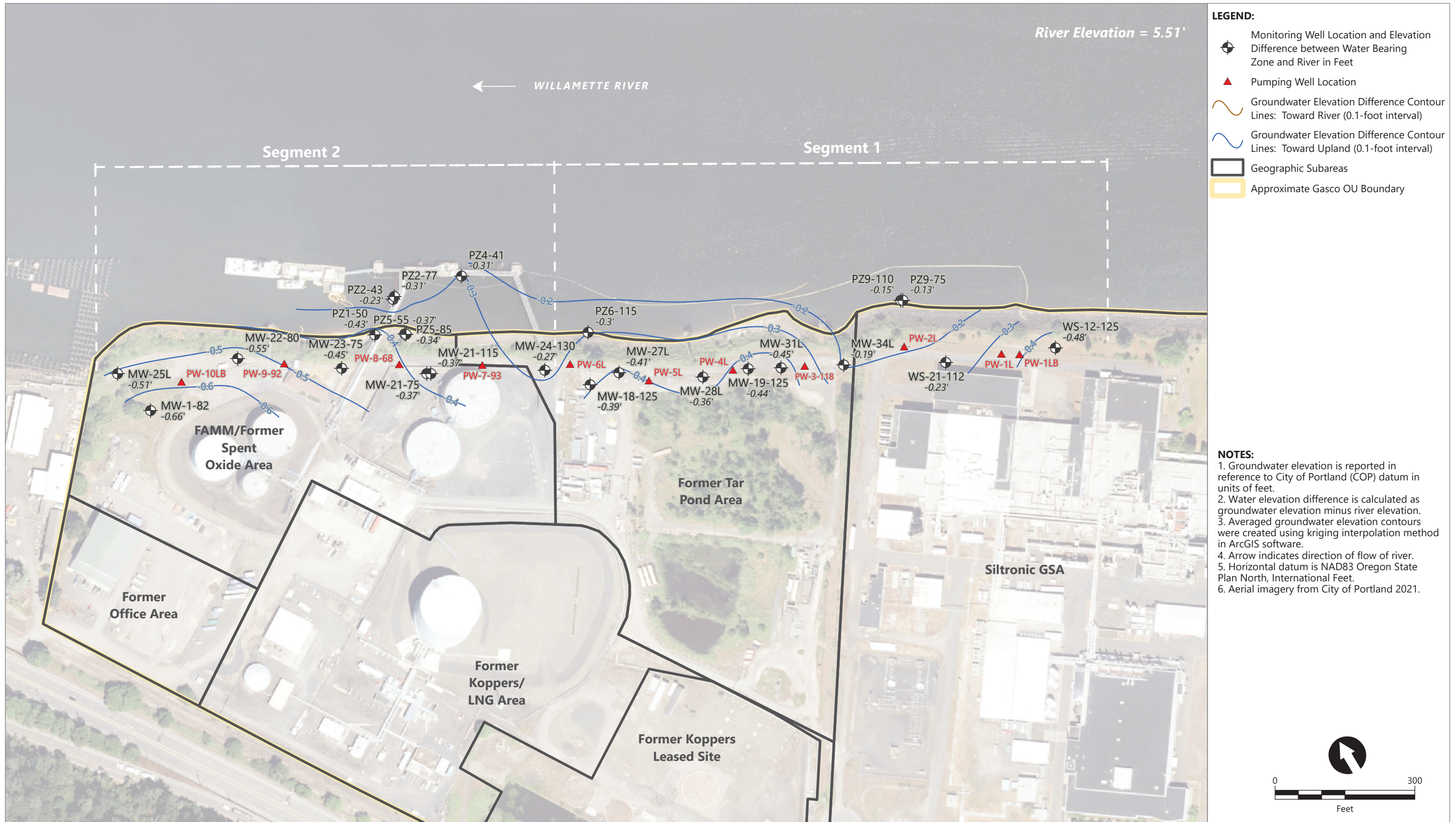


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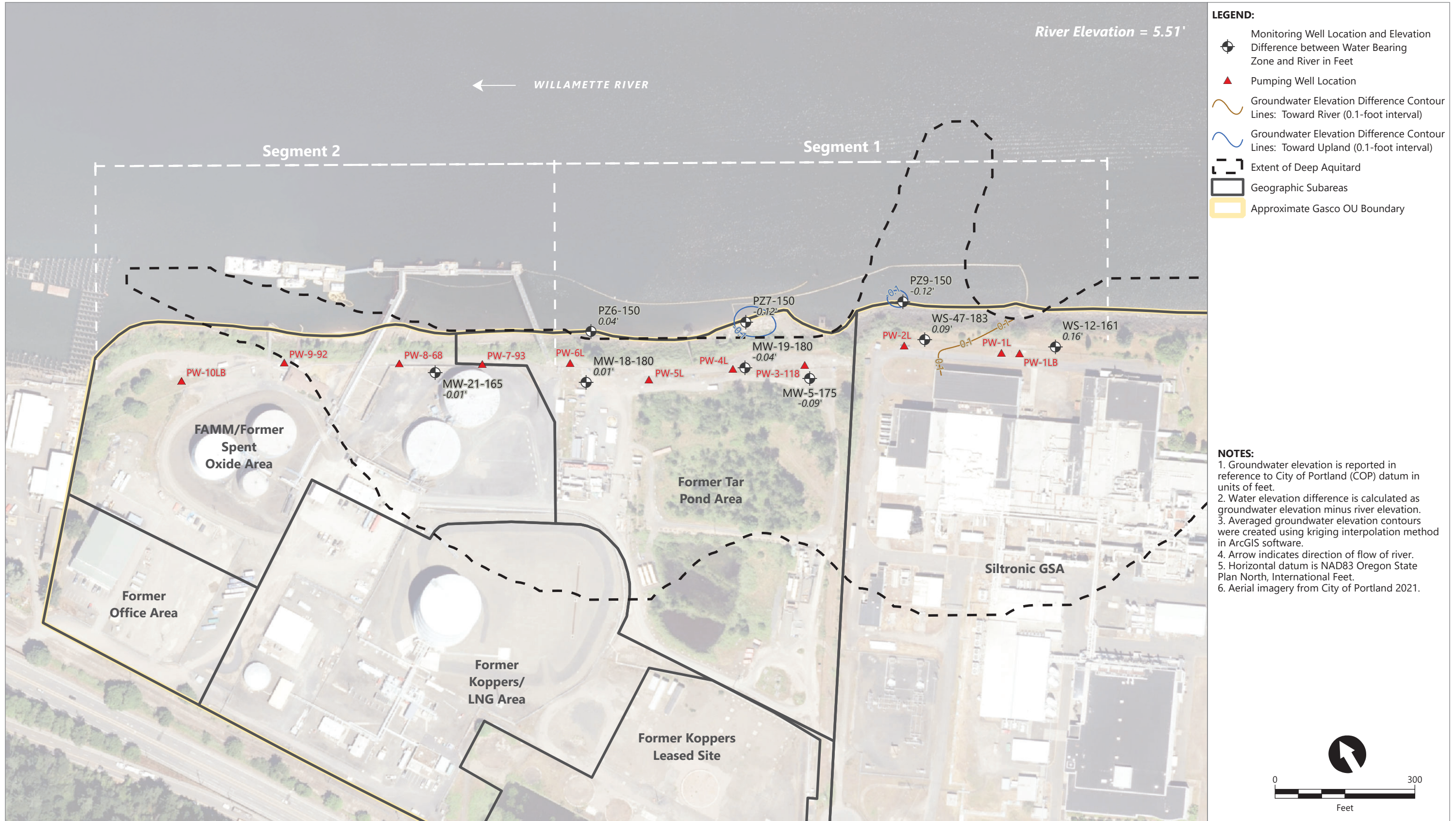


Figure 3.12a
 Contours of Water Elevation Difference Between Upper Alluvium WBZ and River Using Serfes 3-Day Rolling Averages From 6/24/2023-6/26/2023

NWN Gasco Site
 Portland, Oregon



Publish Date: 2023/08/09, 2:54 PM | User: cgardner
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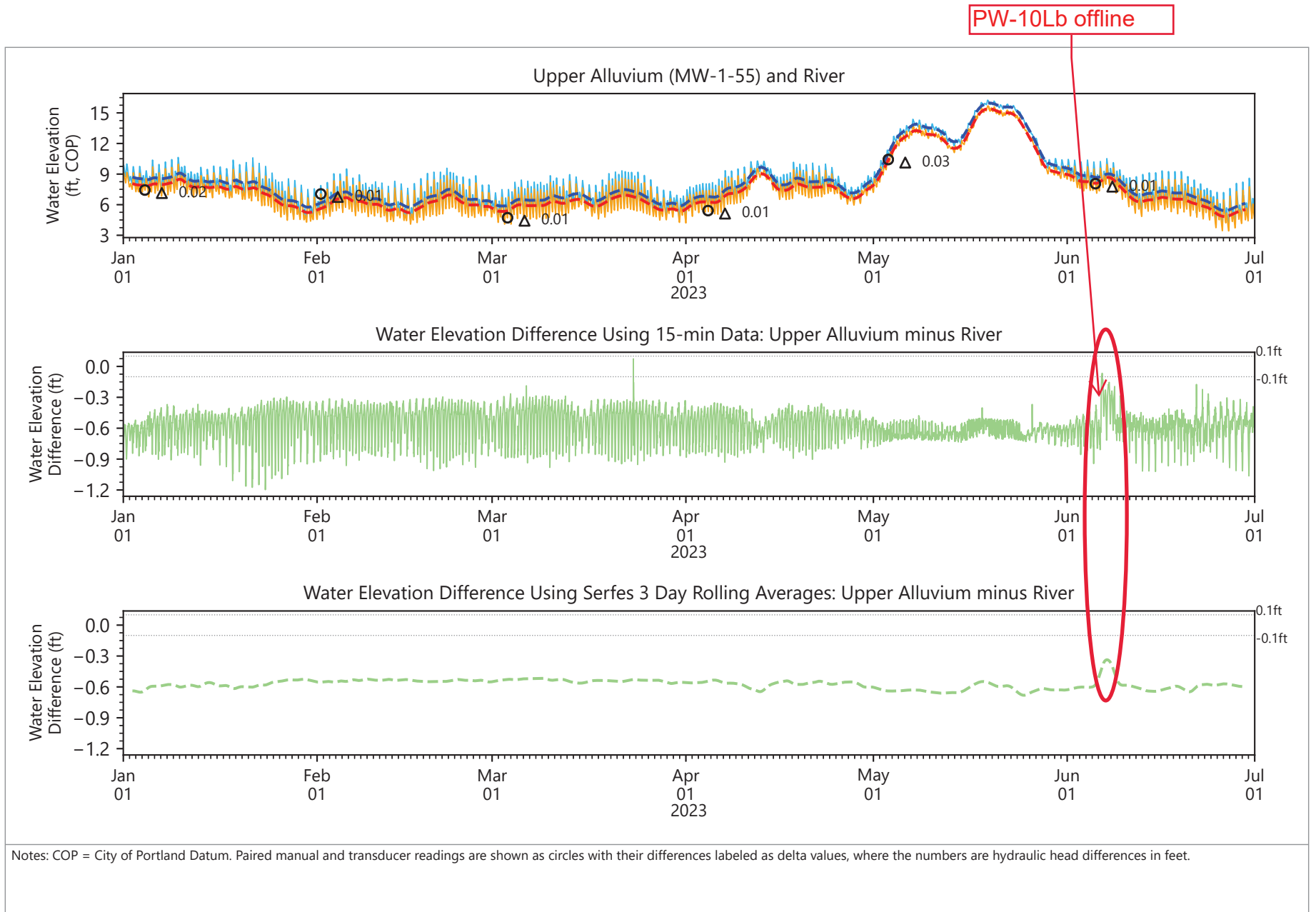


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Figure 3.12c
Contours of Water Elevation Difference Between Deep Lower Alluvium WBZ and River Using Serfes 3-Day Rolling Averages From 6/24/2023-6/26/2023

NWN Gasco Site
 Portland, Oregon



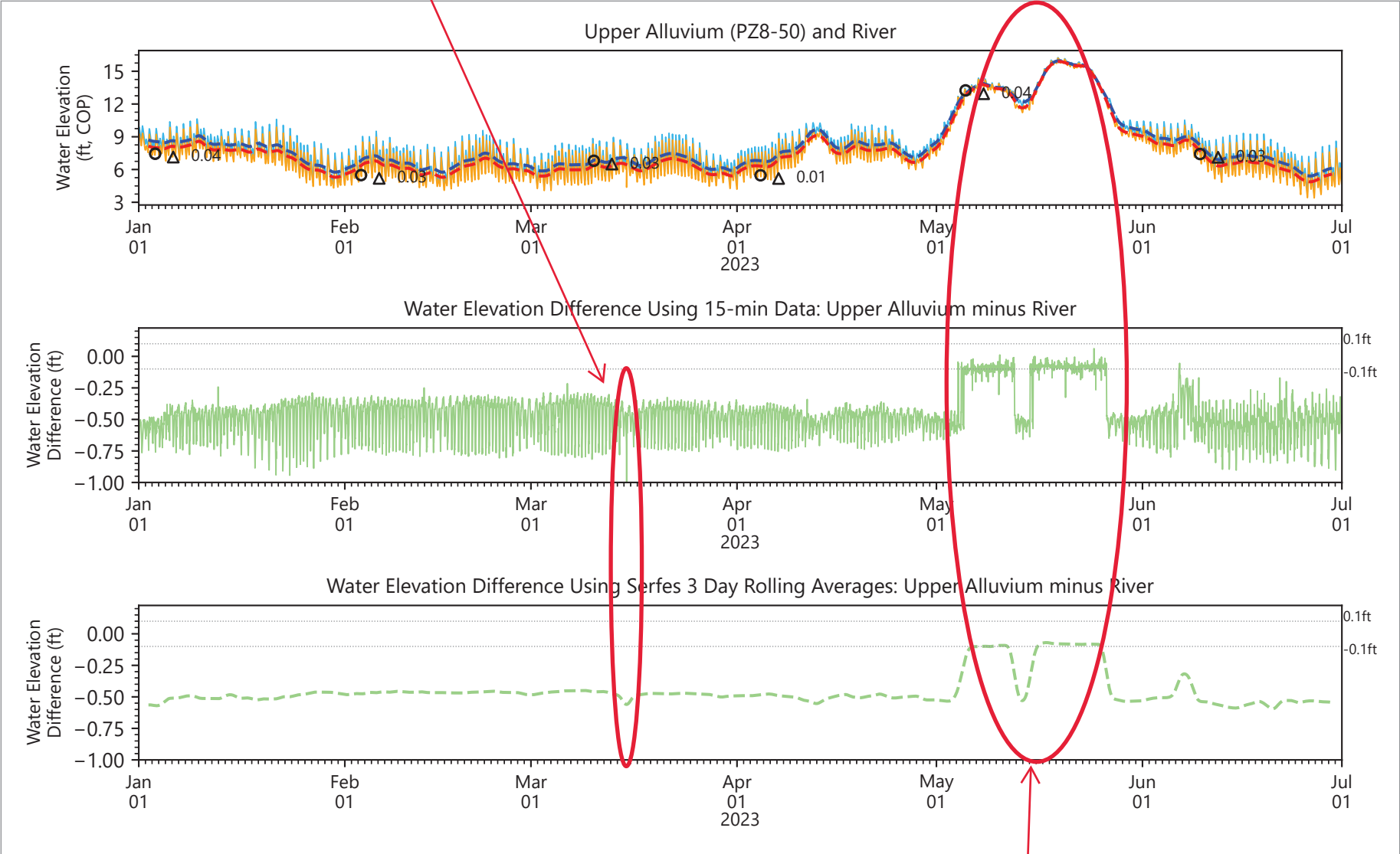
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- Upper Alluvium: 15-min Data
- - - Upper Alluvium: Serfes Averages
- River: 15-min Data
- - - River: Serfes Averages
- Water Elevation Difference: 15-min Data
- - - Water Elevation Difference: Serfes Averages
- 0.1 ft Total Potential Uncertainty

Figure 4.1
Groundwater Elevation Differences
 NW Natural Gasco Site

1Q Groundwater Sampling



Notes: COP = City of Portland Datum. Paired manual and transducer readings are shown as circles with their differences labeled as delta values, where the numbers are hydraulic head differences in feet.

Piezometer flooded above 12.45 feet COP

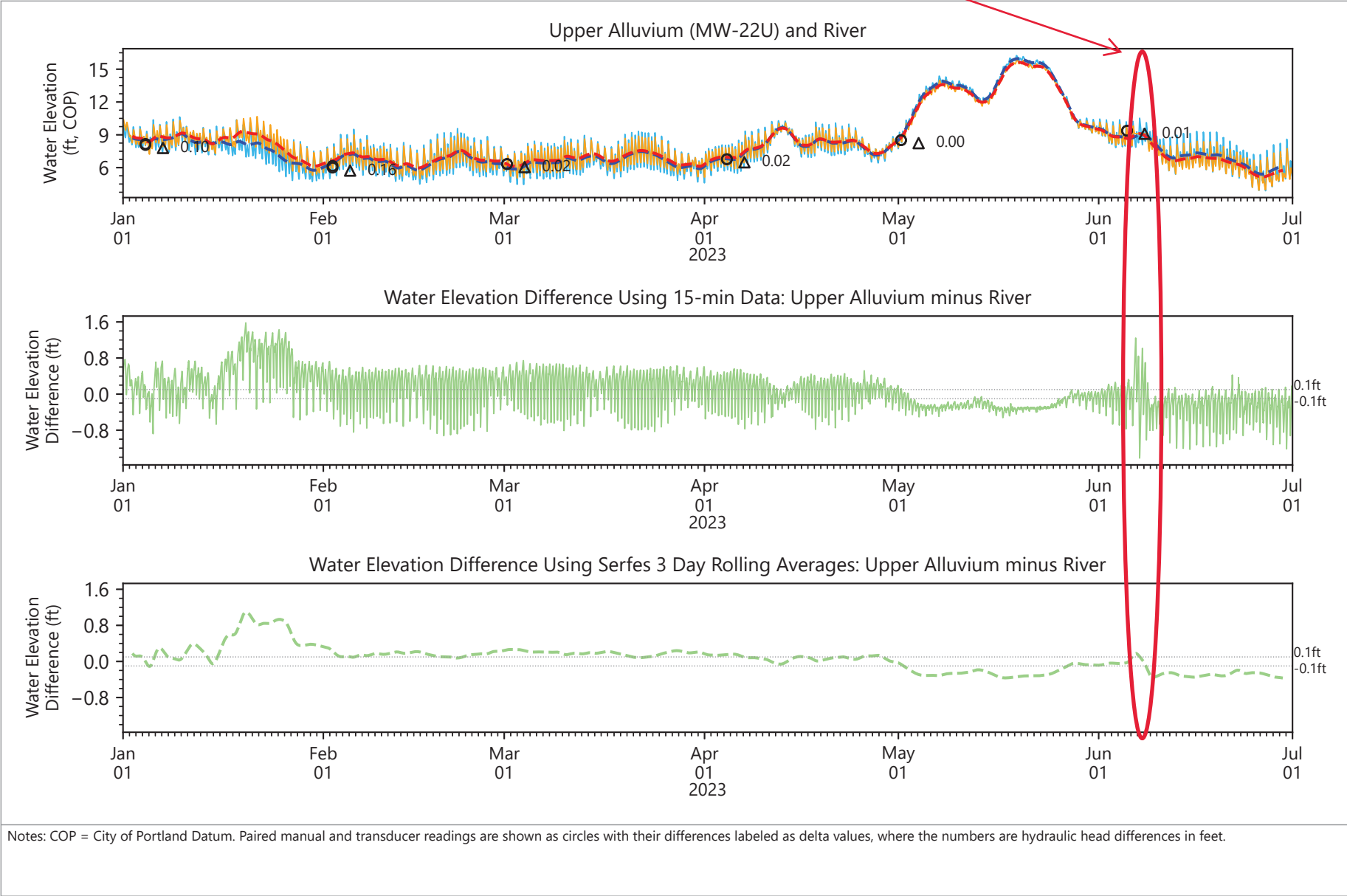
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- Upper Alluvium: 15-min Data
- - - Upper Alluvium: Serfes Averages
- River: 15-min Data
- - - River: Serfes Averages
- Water Elevation Difference: 15-min Data
- - - Water Elevation Difference: Serfes Averages
- ⋯ 0.1 ft Total Potential Uncertainty

Figure 4.2
Groundwater Elevation Differences
 NW Natural Gasco Site

PW-10Lb offline

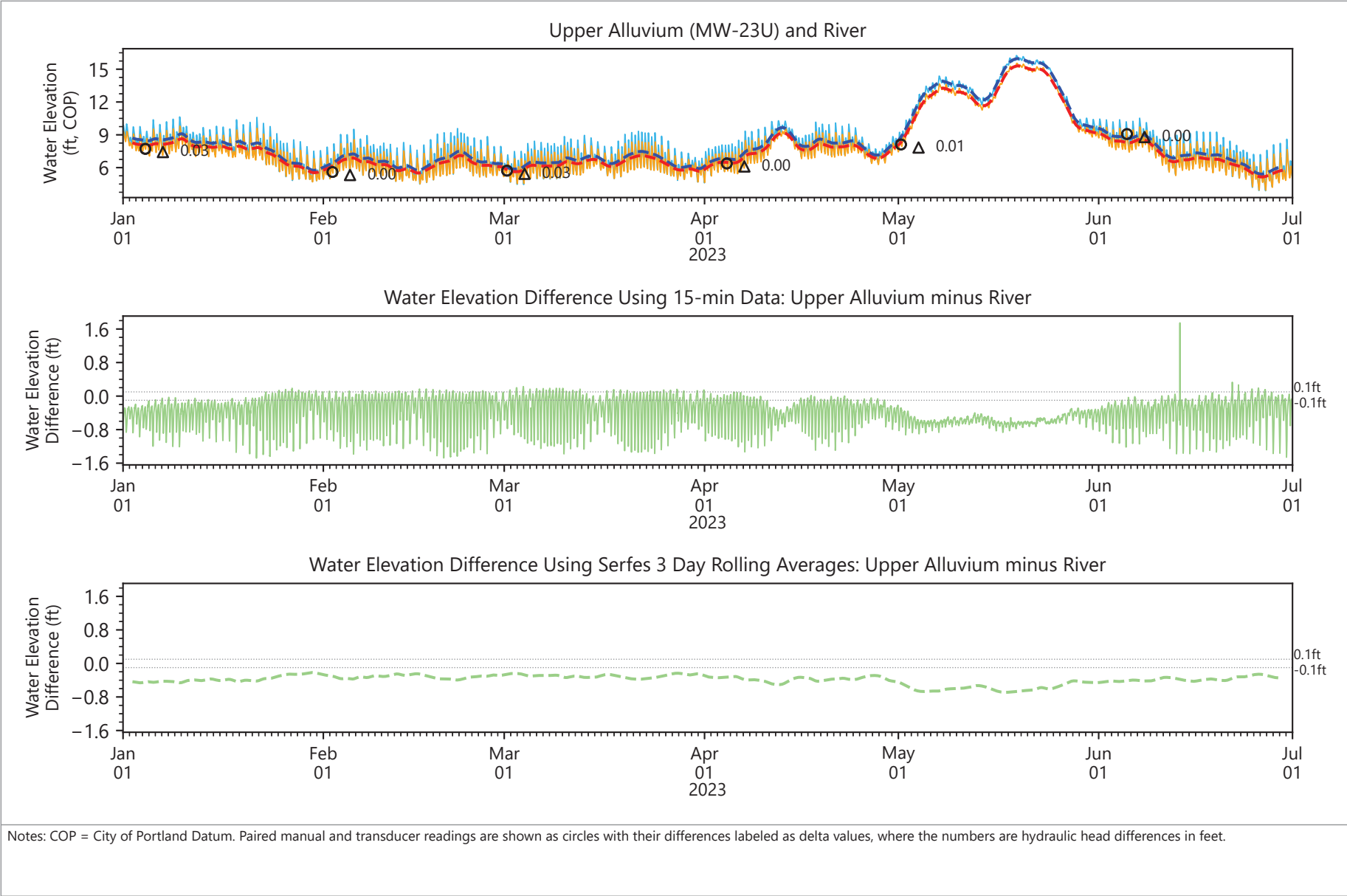


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- Upper Alluvium: 15-min Data
- Upper Alluvium: Serfes Averages
- River: 15-min Data
- River: Serfes Averages
- Water Elevation Difference: 15-min Data
- Water Elevation Difference: Serfes Averages
- 0.1 ft Total Potential Uncertainty

Figure 4.3
Groundwater Elevation Differences
NW Natural Gasco Site

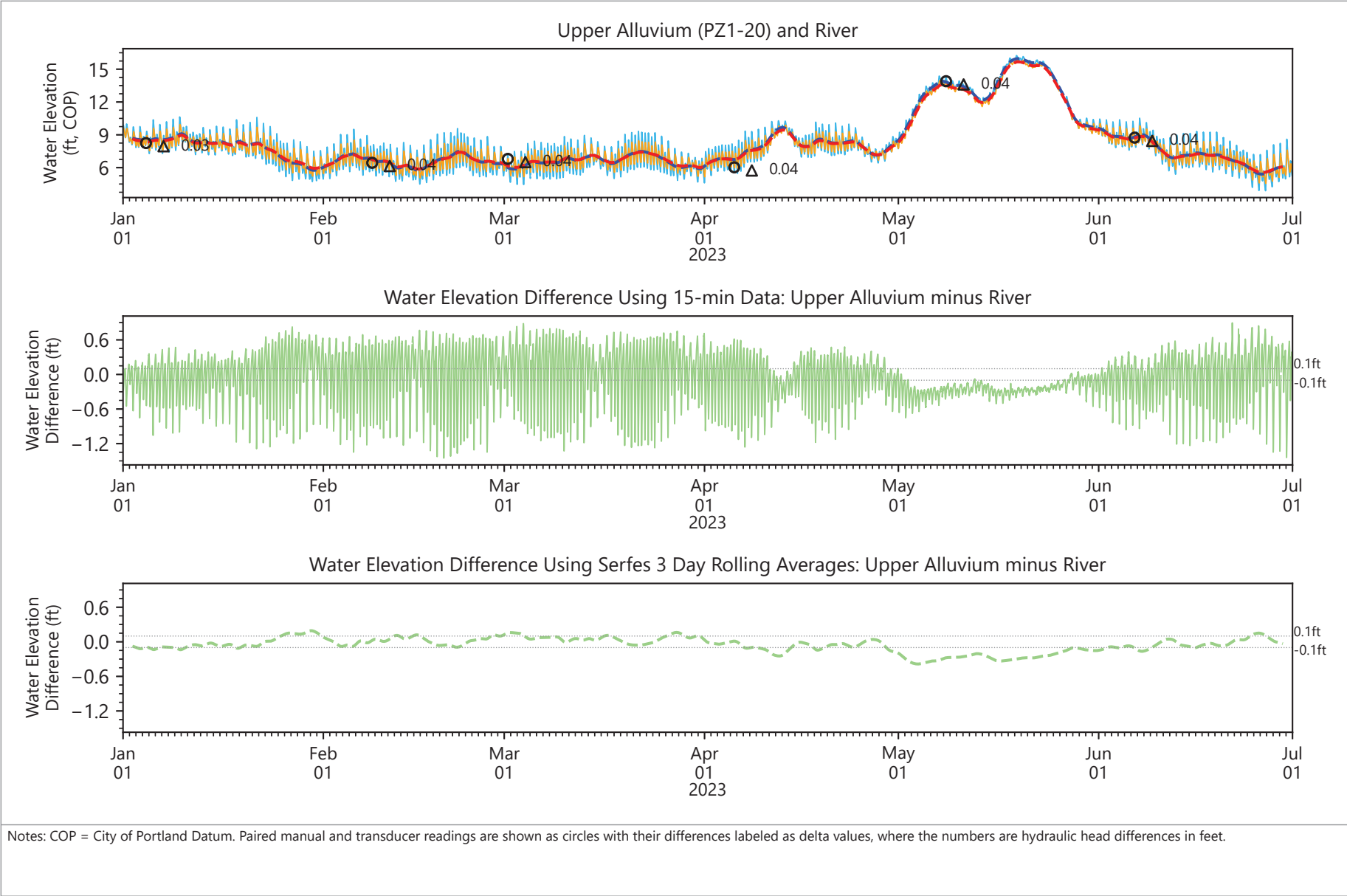


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- Upper Alluvium: 15-min Data
- - - Upper Alluvium: Serfes Averages
- River: 15-min Data
- - - River: Serfes Averages
- Water Elevation Difference: 15-min Data
- - - Water Elevation Difference: Serfes Averages
- ⋯ 0.1 ft Total Potential Uncertainty

Figure 4.4
Groundwater Elevation Differences
 NW Natural Gasco Site



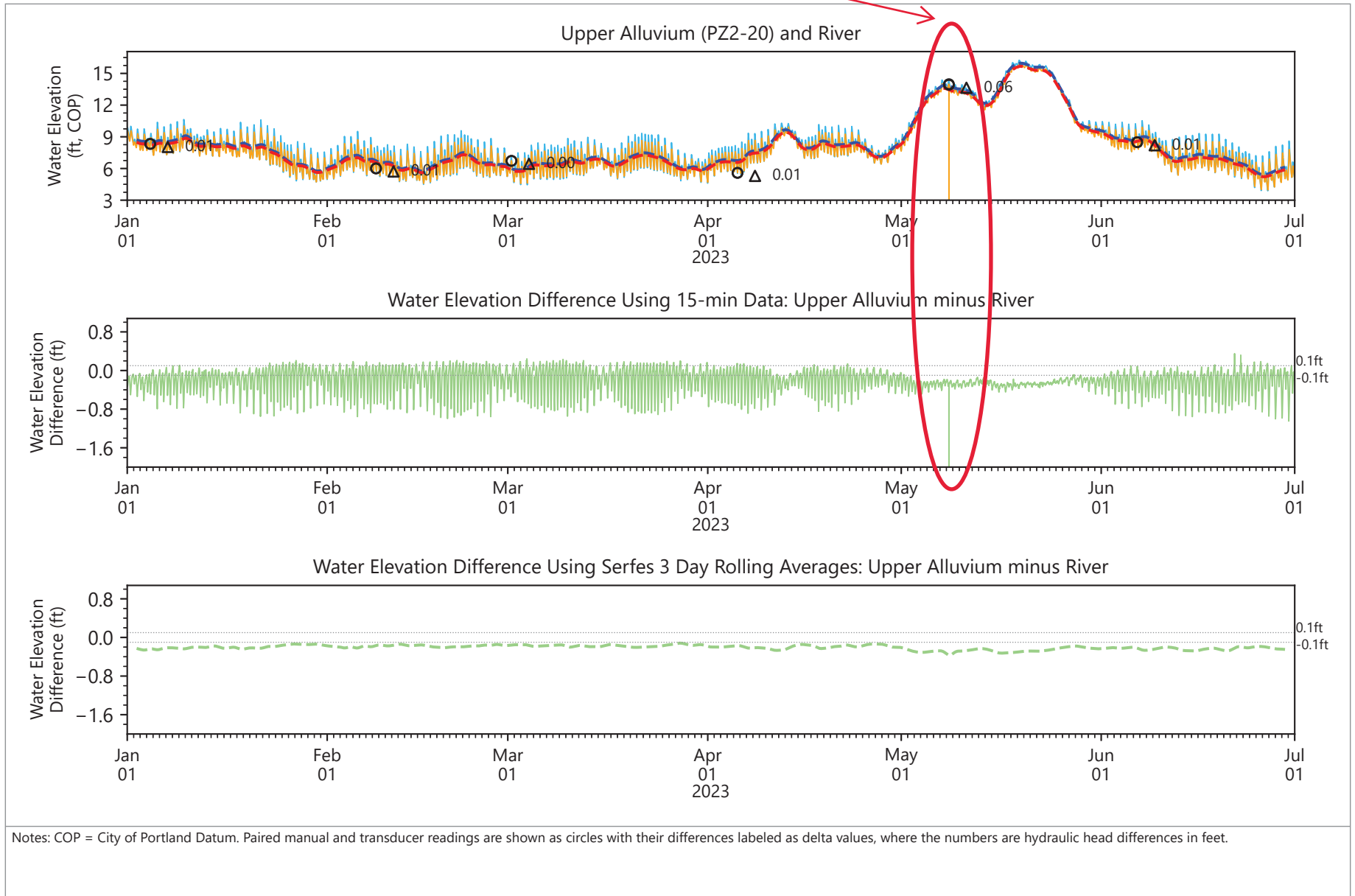
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- Upper Alluvium: 15-min Data
- - - Upper Alluvium: Serfes Averages
- River: 15-min Data
- - - River: Serfes Averages
- Water Elevation Difference: 15-min Data
- - - Water Elevation Difference: Serfes Averages
- ⋯ 0.1 ft Total Potential Uncertainty

Figure 4.5
Groundwater Elevation Differences
 NW Natural Gasco Site

Transducer Calibration



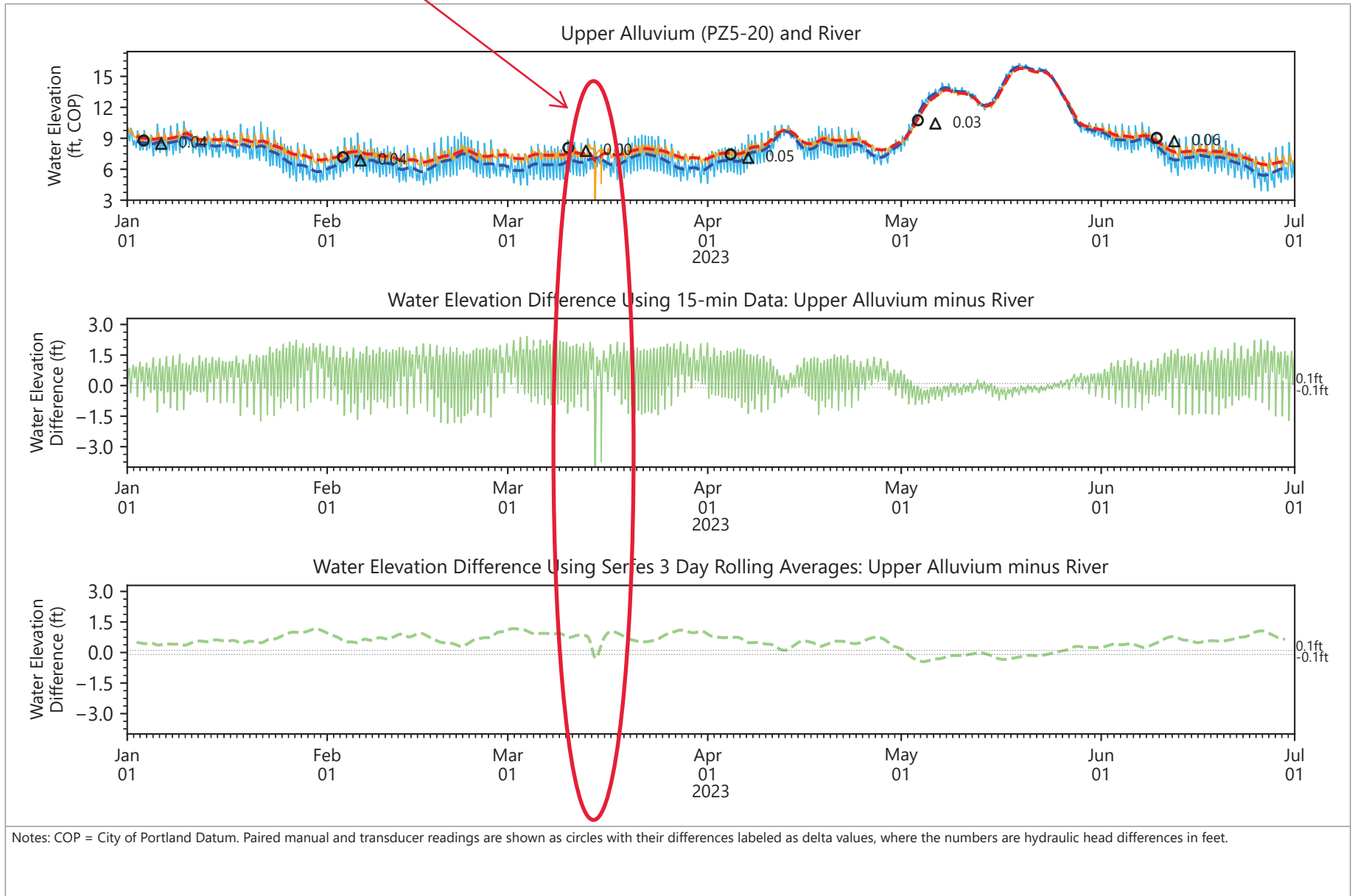
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- Upper Alluvium: 15-min Data
- Upper Alluvium: Serfes Averages
- River: 15-min Data
- River: Serfes Averages
- Water Elevation Difference: 15-min Data
- Water Elevation Difference: Serfes Averages
- 0.1 ft Total Potential Uncertainty

Figure 4.6
Groundwater Elevation Differences
 NW Natural Gasco Site

1Q Groundwater Sampling

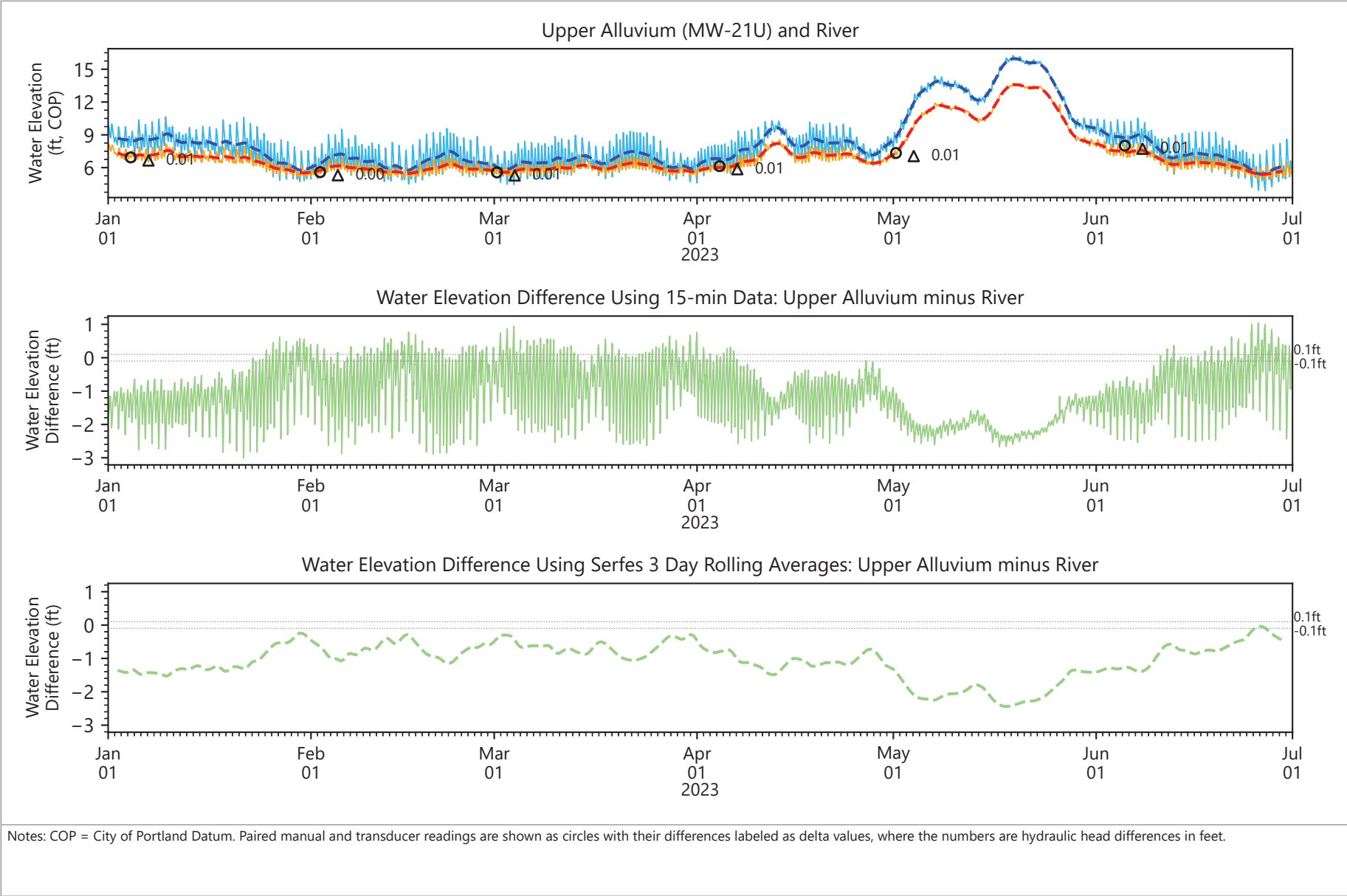


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- Upper Alluvium: 15-min Data
- - - Upper Alluvium: Serfes Averages
- River: 15-min Data
- - - River: Serfes Averages
- Water Elevation Difference: 15-min Data
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- ⋯ 0.1 ft Total Potential Uncertainty

Figure 4.7
Groundwater Elevation Differences
 NW Natural Gasco Site

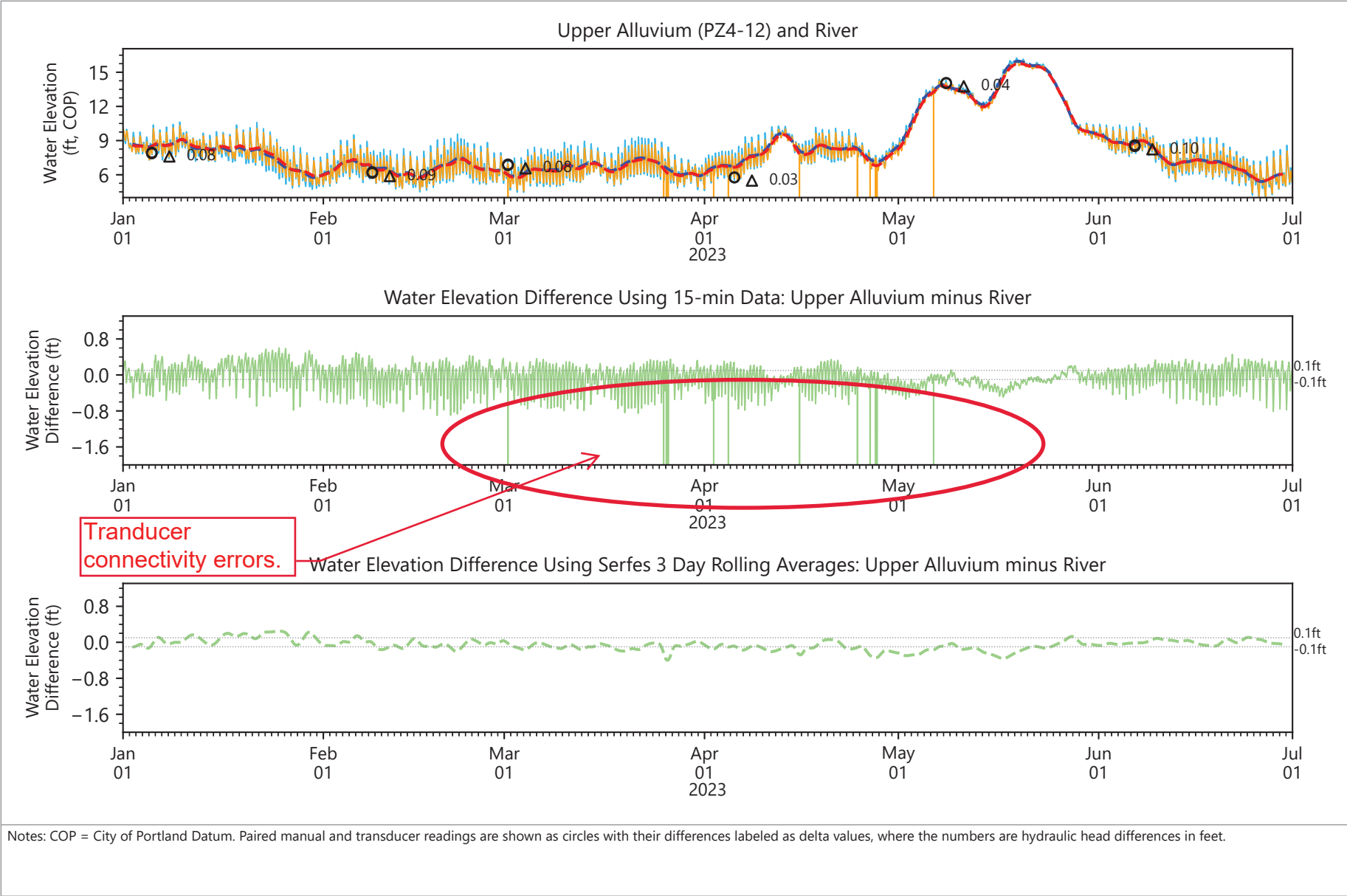


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- Upper Alluvium: 15-min Data
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- River: 15-min Data
- - - River: Serfes Averages
- Water Elevation Difference: 15-min Data
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- ⋯ 0.1 ft Total Potential Uncertainty

Figure 4.8
Groundwater Elevation Differences
 NW Natural Gasco Site

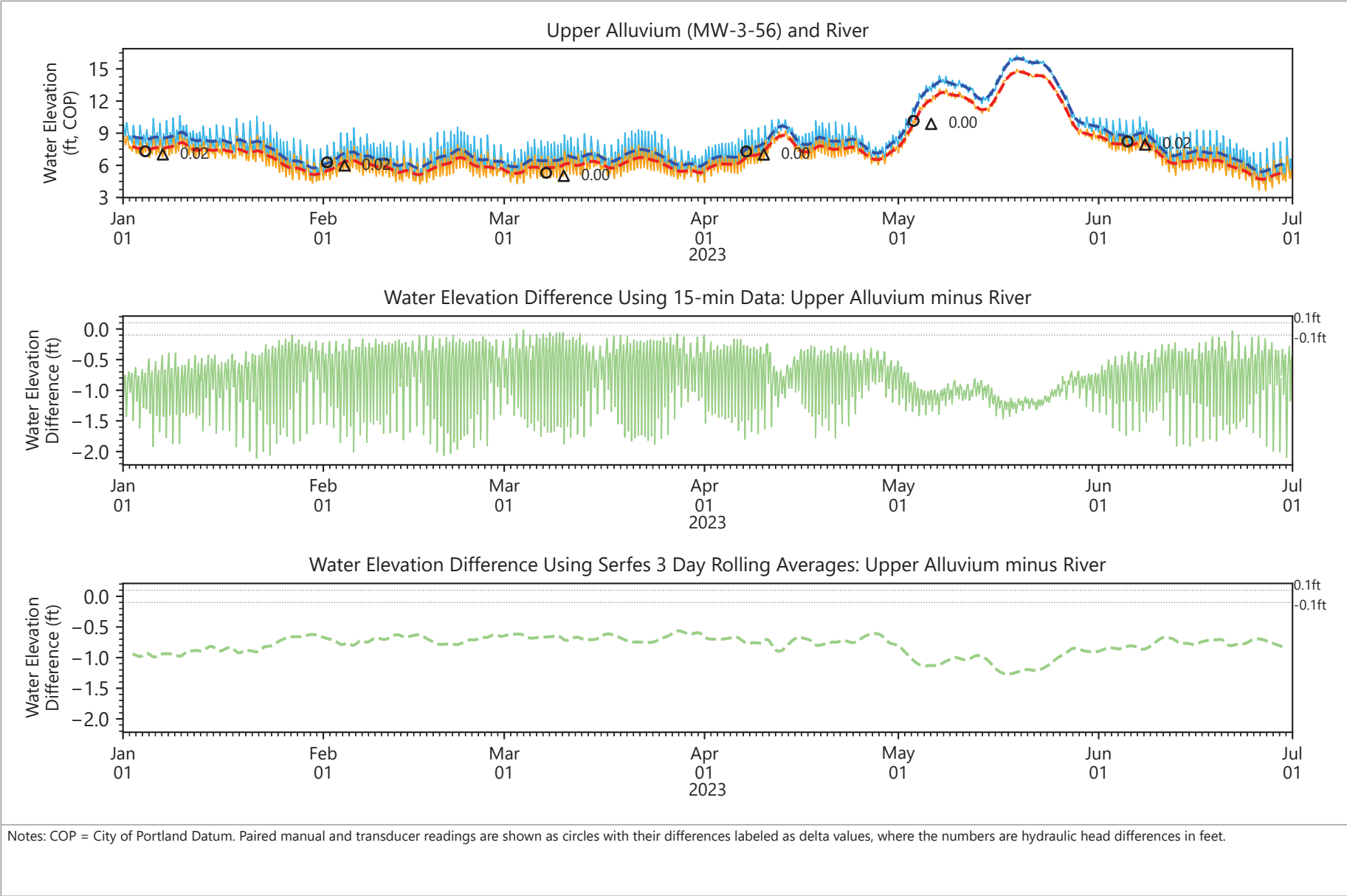


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- Upper Alluvium: 15-min Data
- - - Upper Alluvium: Serfes Averages
- River: 15-min Data
- - - River: Serfes Averages
- Water Elevation Difference: 15-min Data
- - - Water Elevation Difference: Serfes Averages
- ⋯⋯⋯ 0.1 ft Total Potential Uncertainty

Figure 4.9
Groundwater Elevation Differences
 NW Natural Gasco Site

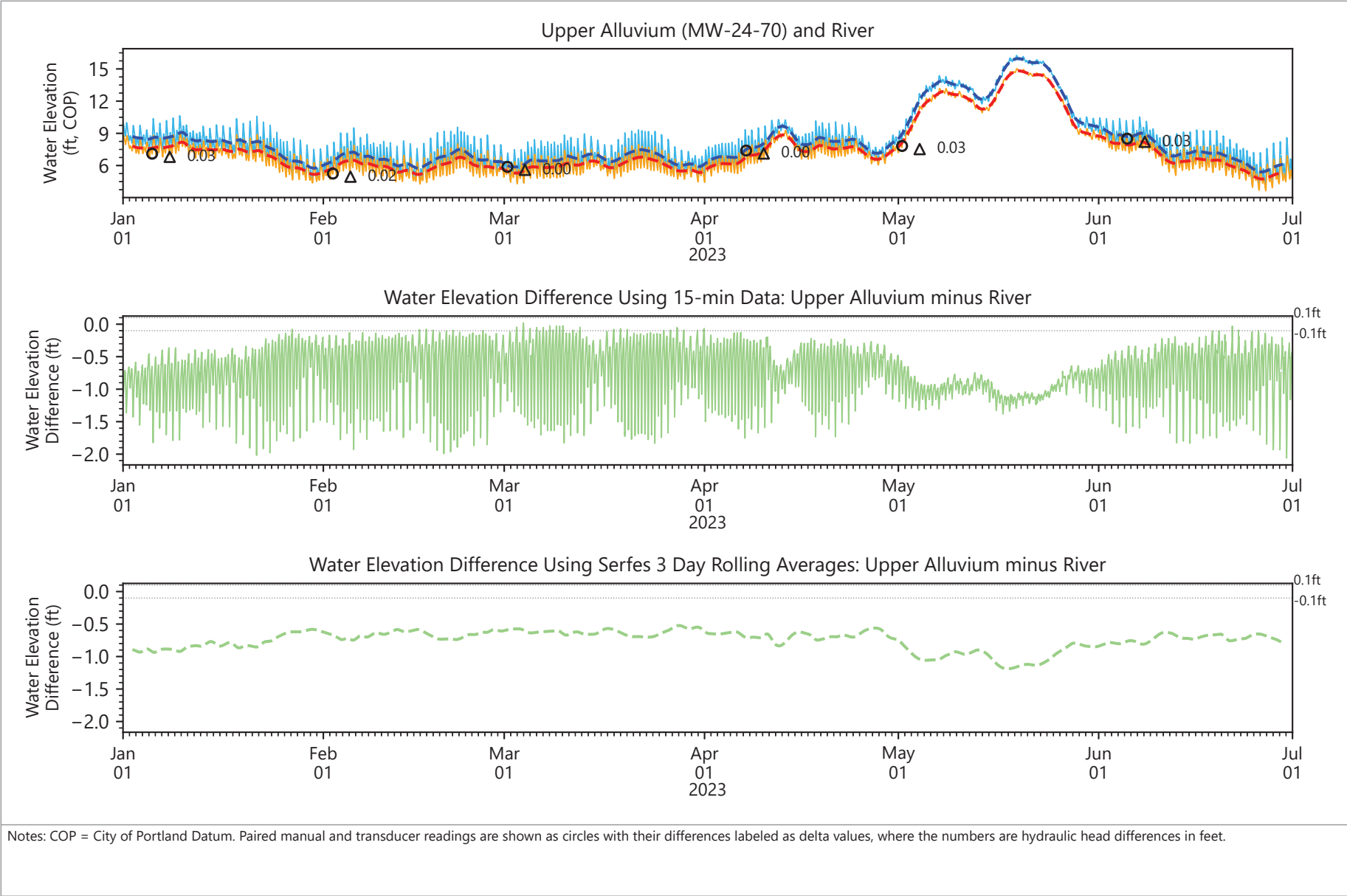


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- Upper Alluvium: 15-min Data
- - - Upper Alluvium: Serfes Averages
- River: 15-min Data
- - - River: Serfes Averages
- Water Elevation Difference: 15-min Data
- - - Water Elevation Difference: Serfes Averages
- ⋯⋯⋯ 0.1 ft Total Potential Uncertainty

Figure 4.10
Groundwater Elevation Differences
 NW Natural Gasco Site



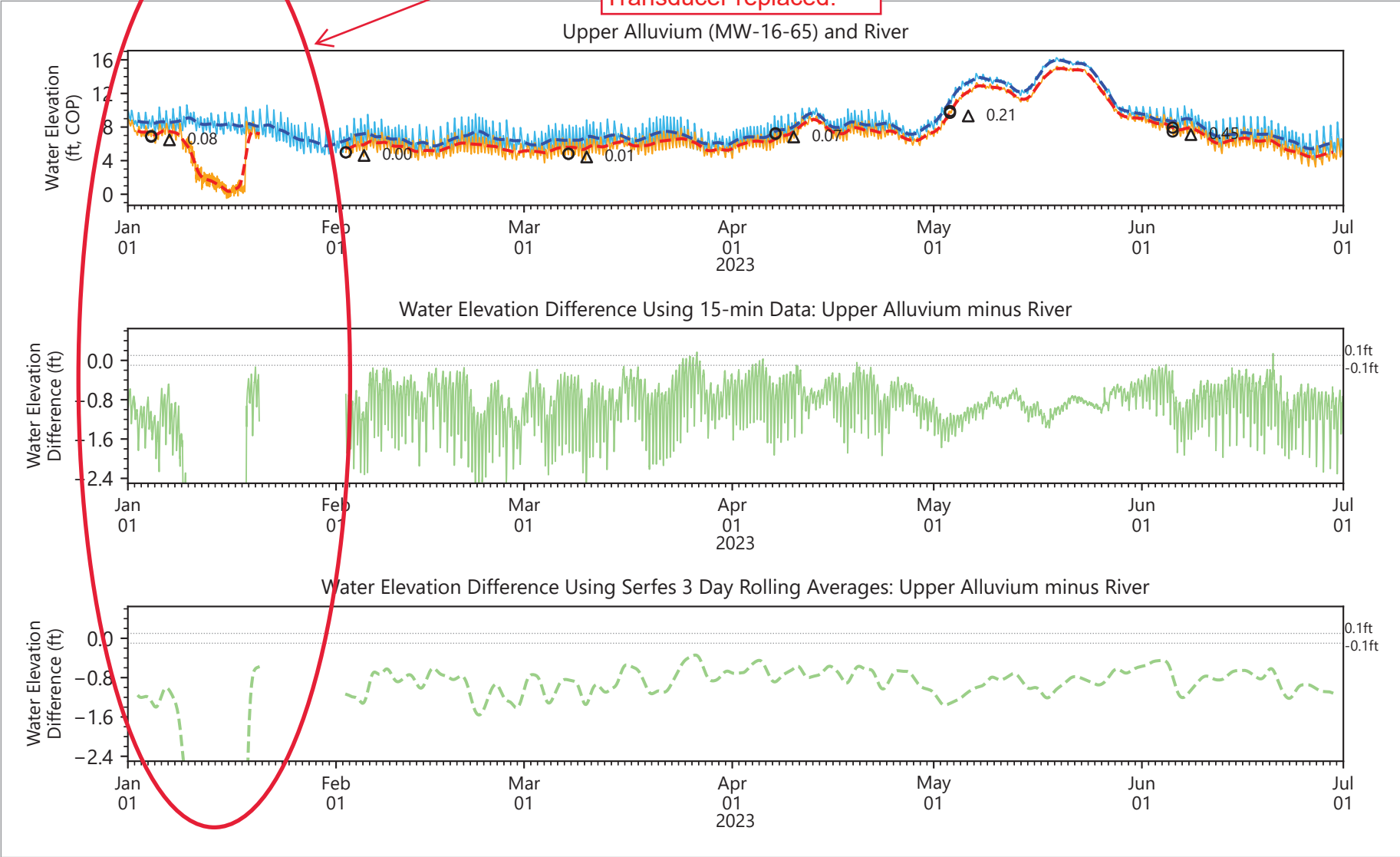
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- Upper Alluvium: 15-min Data
- - - Upper Alluvium: Serfes Averages
- River: 15-min Data
- - - River: Serfes Averages
- Water Elevation Difference: 15-min Data
- - - Water Elevation Difference: Serfes Averages
- ⋯ 0.1 ft Total Potential Uncertainty

Figure 4.11
Groundwater Elevation Differences
 NW Natural Gasco Site

Transducer malfunction.
Data unrecoverable.
Transducer replaced.



Notes: COP = City of Portland Datum. Paired manual and transducer readings are shown as circles with their differences labeled as delta values, where the numbers are hydraulic head differences in feet.

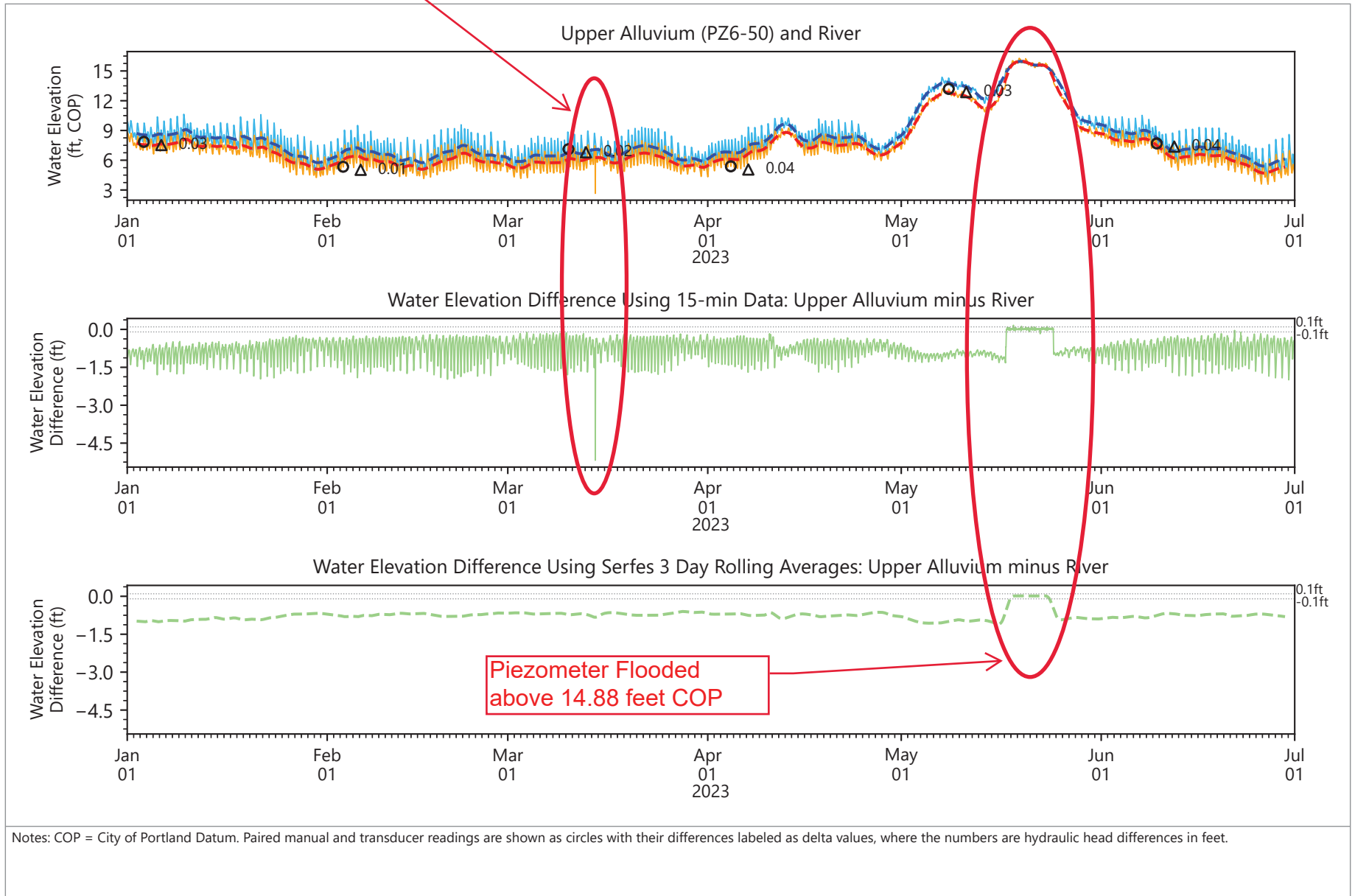
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- Upper Alluvium: 15-min Data
- Upper Alluvium: Serfes Averages
- River: 15-min Data
- River: Serfes Averages
- Water Elevation Difference: 15-min Data
- Water Elevation Difference: Serfes Averages
- 0.1 ft Total Potential Uncertainty

Figure 4.12
Groundwater Elevation Differences
NW Natural Gasco Site

1Q Groundwater Sampling

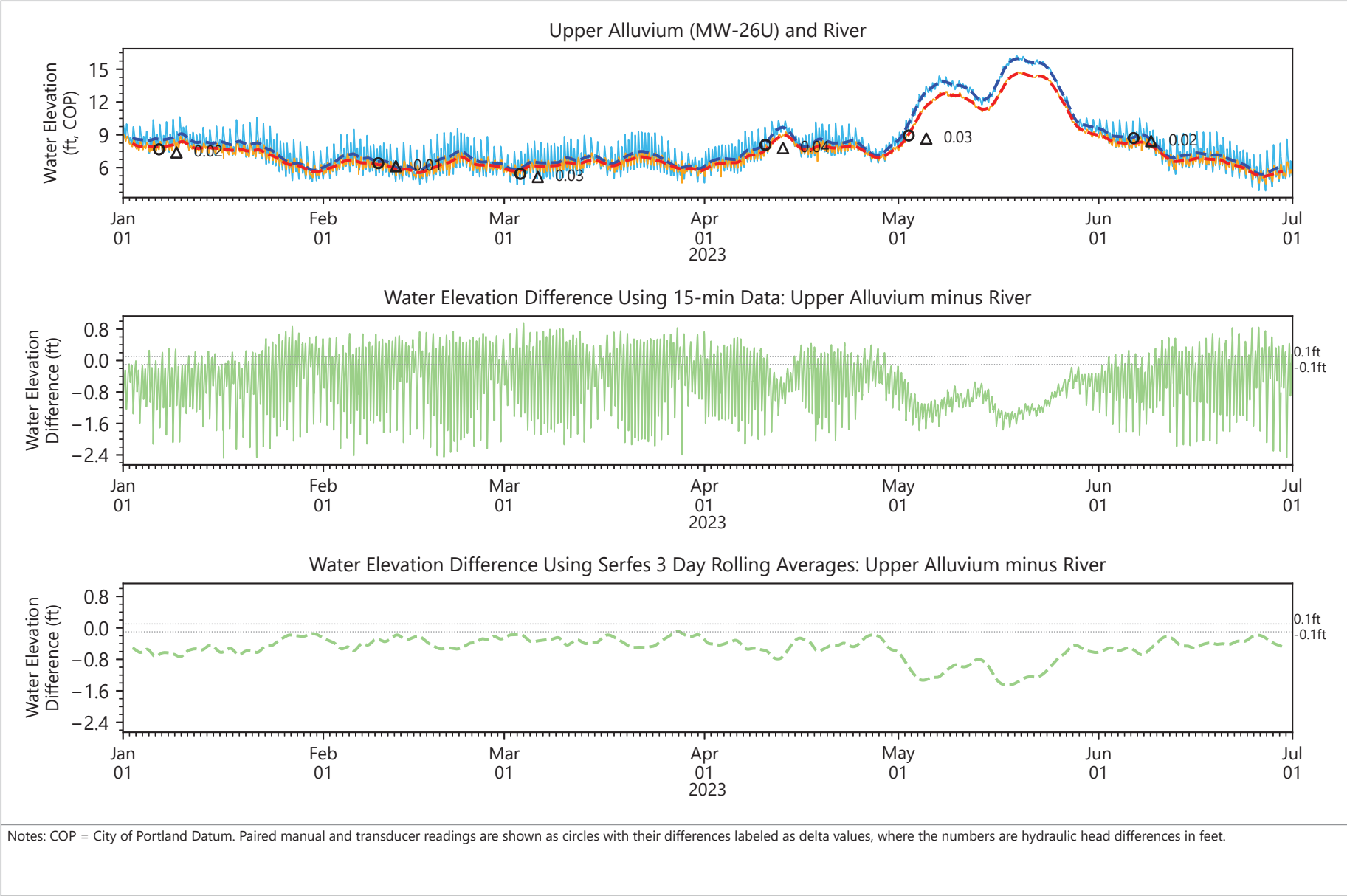


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- Upper Alluvium: 15-min Data
- Upper Alluvium: Serfes Averages
- River: 15-min Data
- River: Serfes Averages
- Water Elevation Difference: 15-min Data
- Water Elevation Difference: Serfes Averages
- 0.1 ft Total Potential Uncertainty

Figure 4.13
Groundwater Elevation Differences
 NW Natural Gasco Site

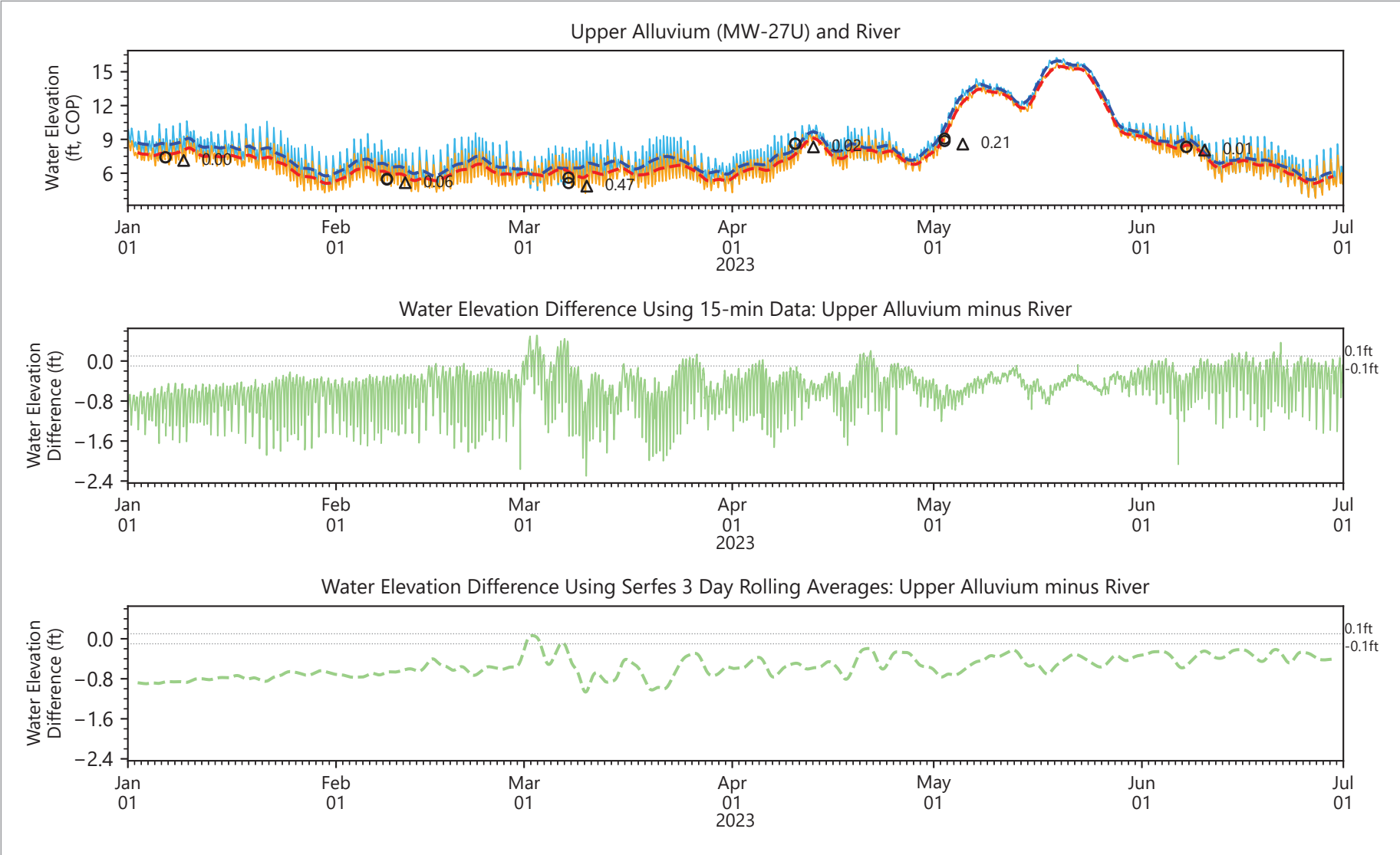


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- Upper Alluvium: 15-min Data
- - - Upper Alluvium: Serfes Averages
- River: 15-min Data
- - - River: Serfes Averages
- Water Elevation Difference: 15-min Data
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- 0.1 ft Total Potential Uncertainty

Figure 4.14
Groundwater Elevation Differences
 NW Natural Gasco Site



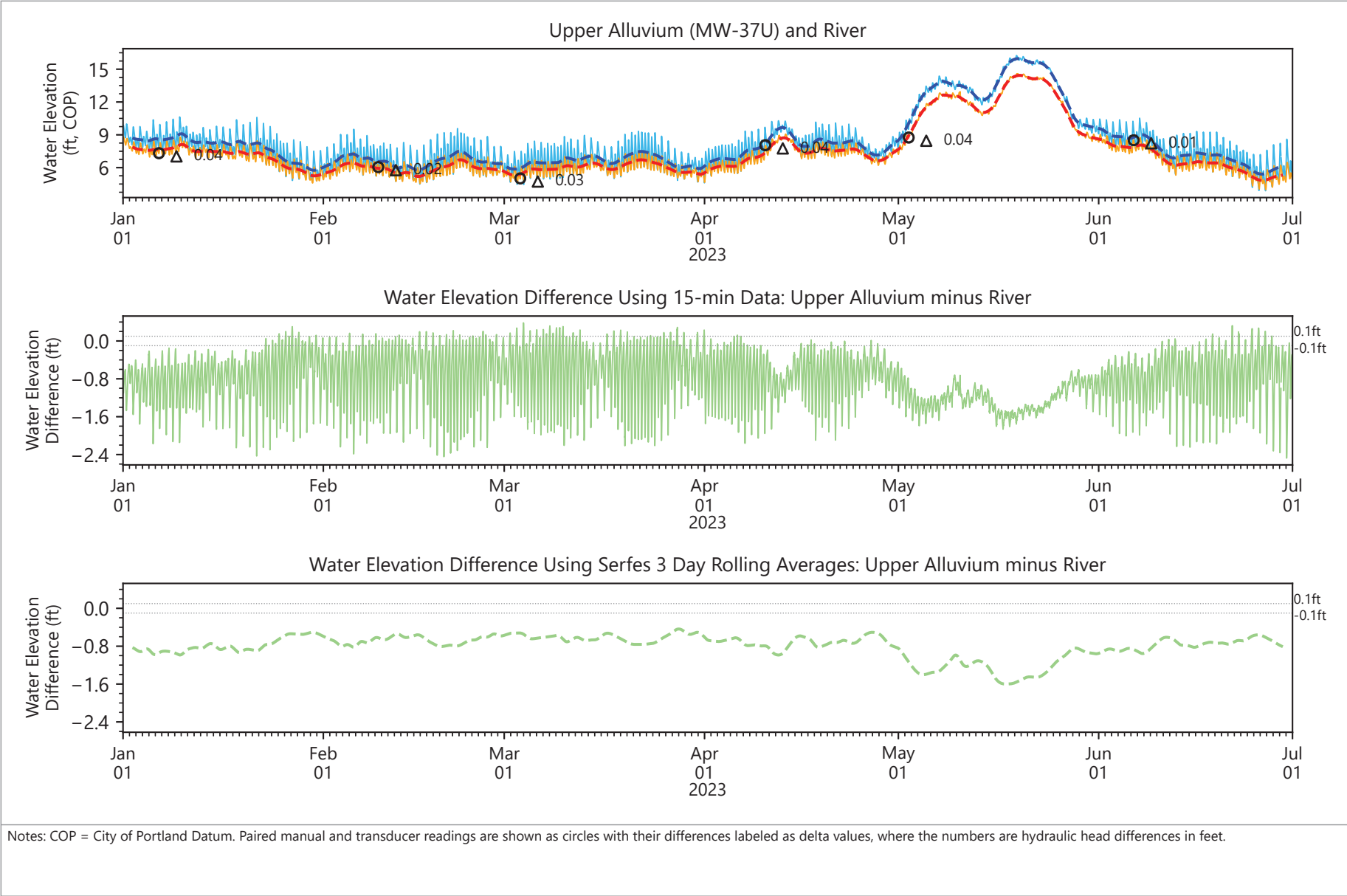
Notes: COP = City of Portland Datum. Paired manual and transducer readings are shown as circles with their differences labeled as delta values, where the numbers are hydraulic head differences in feet.

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- Upper Alluvium: 15-min Data
- - - Upper Alluvium: Serfes Averages
- River: 15-min Data
- - - River: Serfes Averages
- Water Elevation Difference: 15-min Data
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- ⋯⋯⋯ 0.1 ft Total Potential Uncertainty

Figure 4.15
Groundwater Elevation Differences
 NW Natural Gasco Site

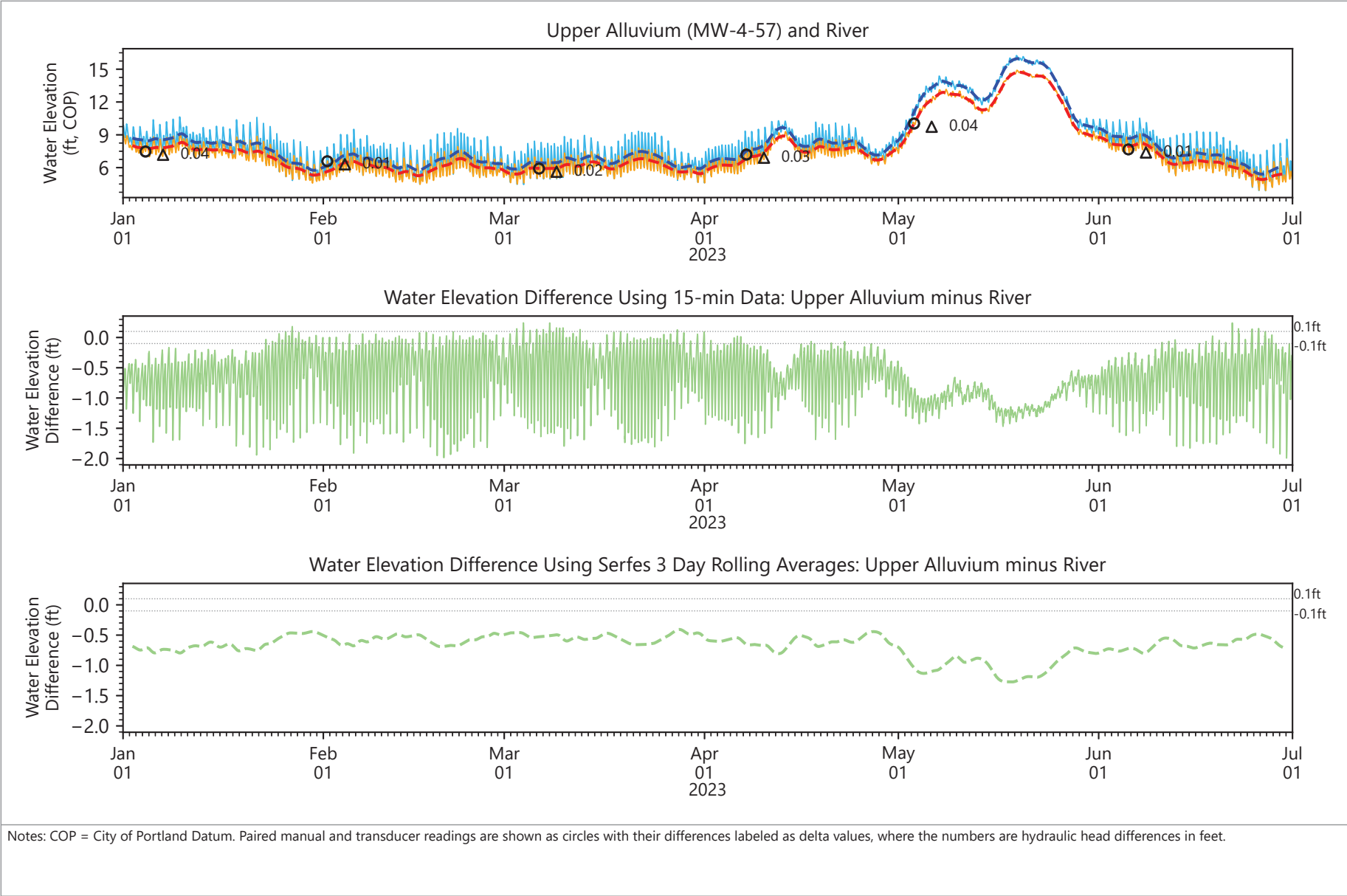


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- Upper Alluvium: 15-min Data
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- River: 15-min Data
- - - River: Serfes Averages
- Water Elevation Difference: 15-min Data
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- ⋯⋯⋯ 0.1 ft Total Potential Uncertainty

Figure 4.16
Groundwater Elevation Differences
 NW Natural Gasco Site

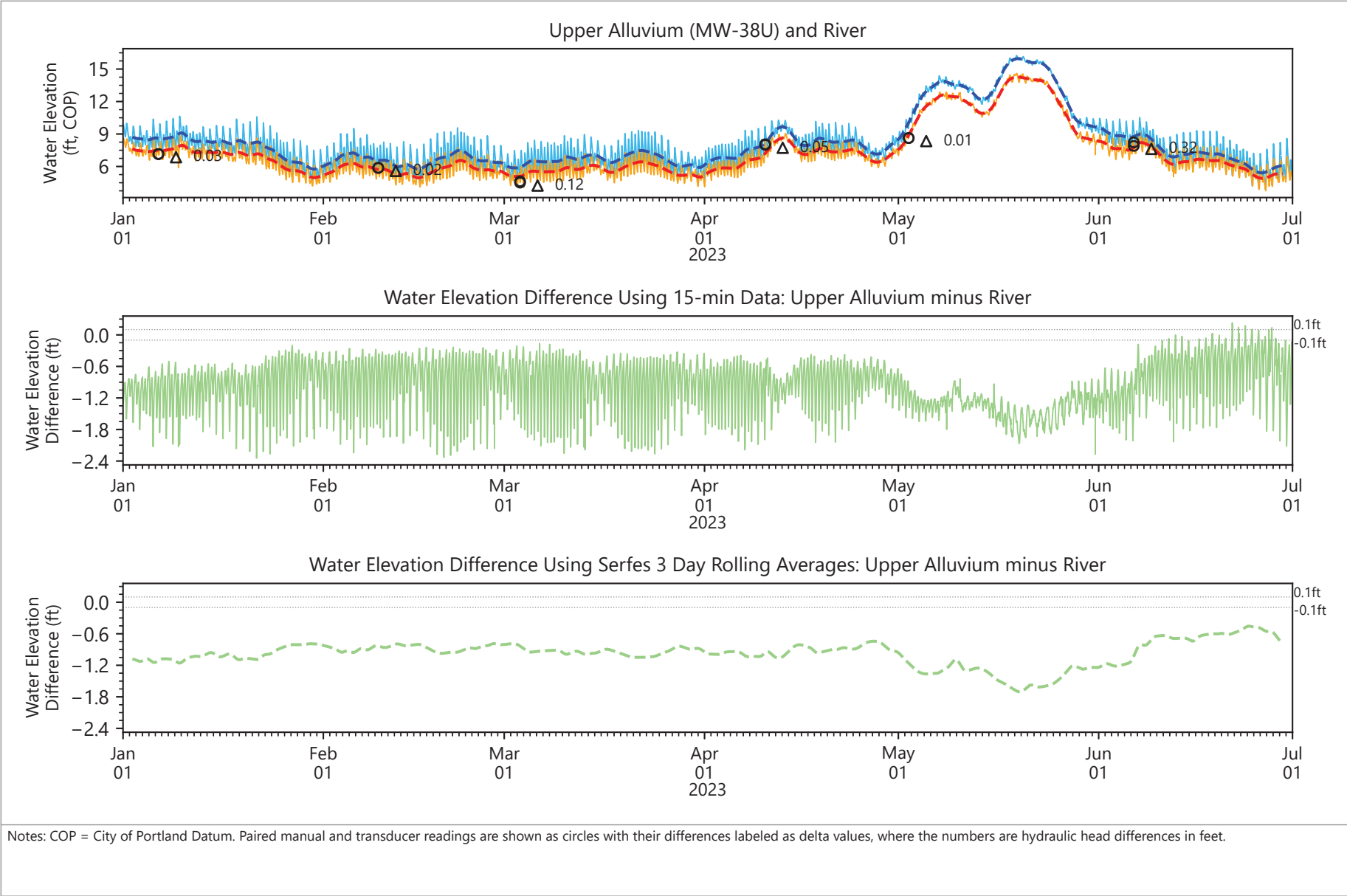


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- Upper Alluvium: 15-min Data
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- River: 15-min Data
- - - River: Serfes Averages
- Water Elevation Difference: 15-min Data
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- ⋯ 0.1 ft Total Potential Uncertainty

Figure 4.17
Groundwater Elevation Differences
 NW Natural Gasco Site

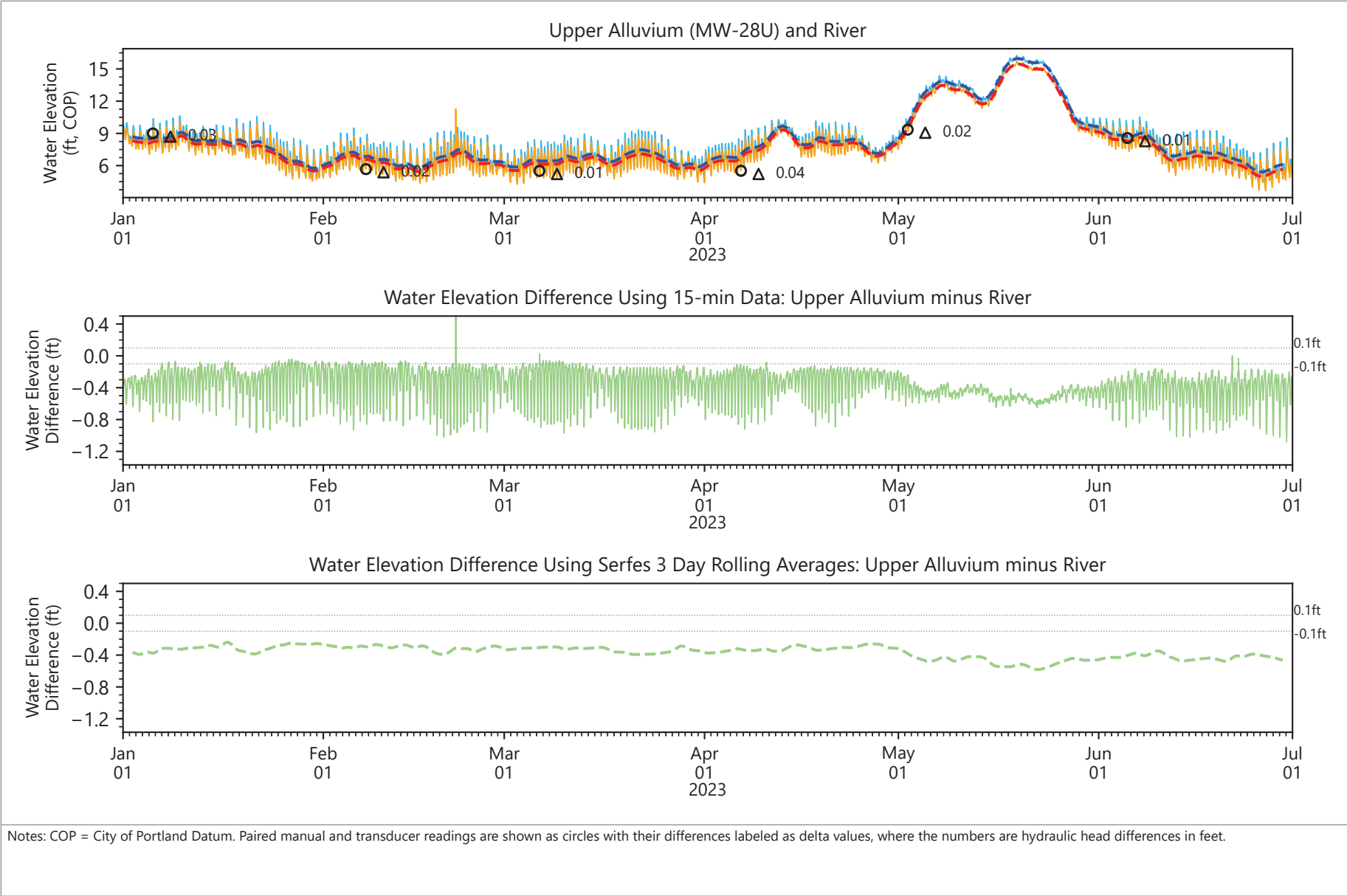


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- Upper Alluvium: 15-min Data
- - - Upper Alluvium: Serfes Averages
- River: 15-min Data
- - - River: Serfes Averages
- Water Elevation Difference: 15-min Data
- - - Water Elevation Difference: Serfes Averages
- ⋯ 0.1 ft Total Potential Uncertainty

Figure 4.18
Groundwater Elevation Differences
 NW Natural Gasco Site

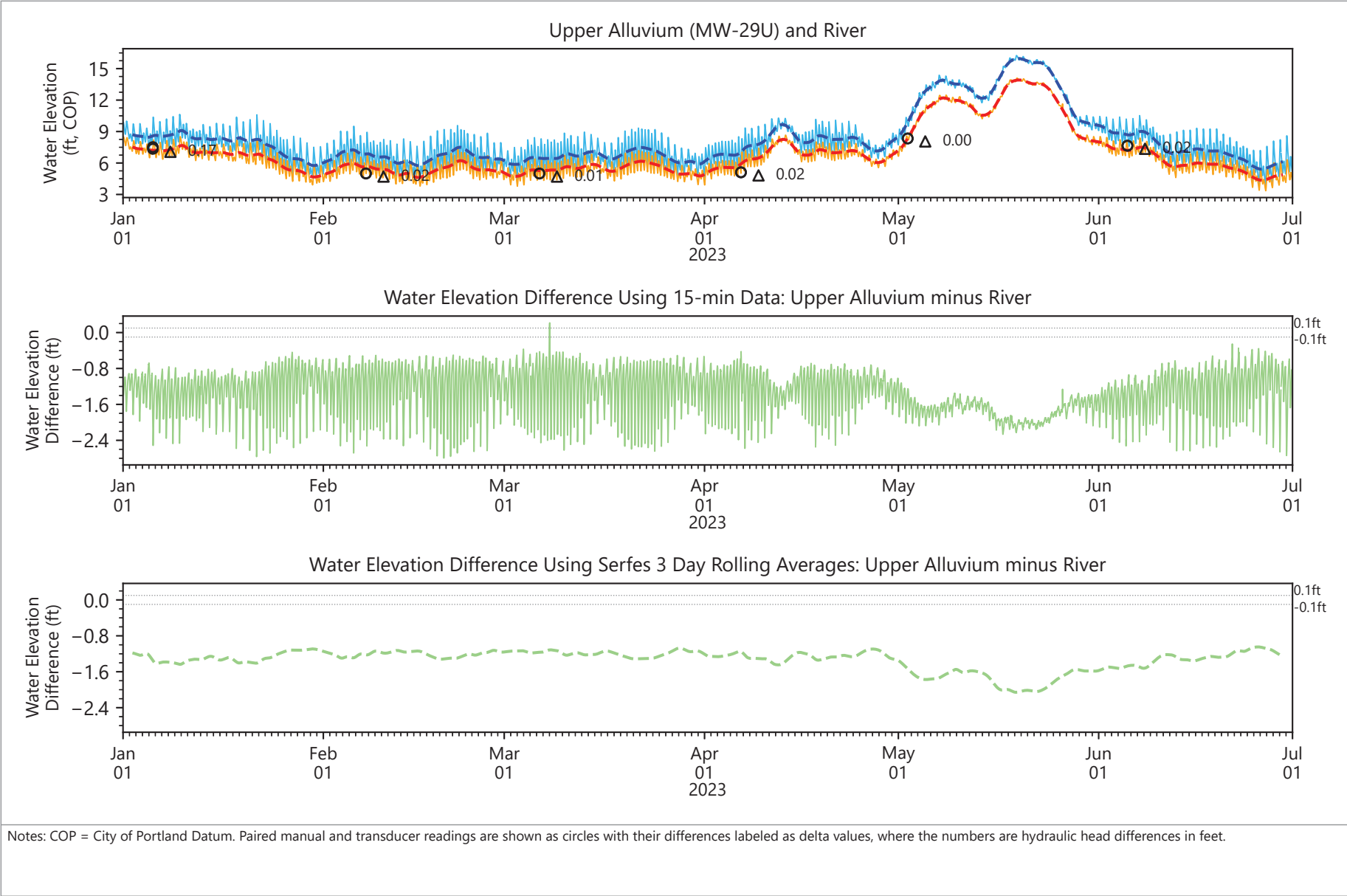


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- Upper Alluvium: 15-min Data
- - - Upper Alluvium: Serfes Averages
- River: 15-min Data
- - - River: Serfes Averages
- Water Elevation Difference: 15-min Data
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- ⋯ 0.1 ft Total Potential Uncertainty

Figure 4.19
Groundwater Elevation Differences
 NW Natural Gasco Site

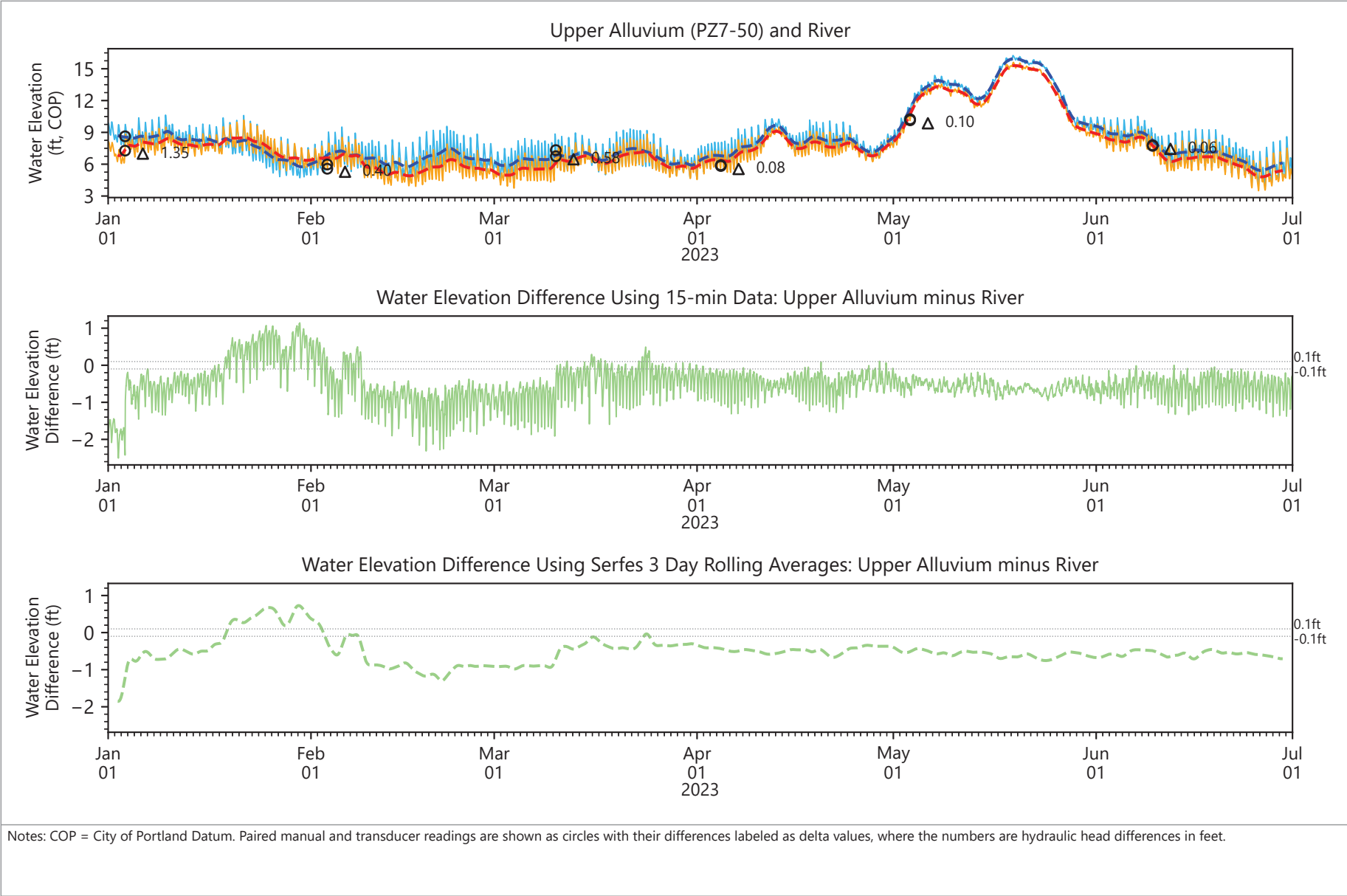


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- Upper Alluvium: 15-min Data
- - - Upper Alluvium: Serfes Averages
- River: 15-min Data
- - - River: Serfes Averages
- Water Elevation Difference: 15-min Data
- - - Water Elevation Difference: Serfes Averages
- ⋯⋯⋯ 0.1 ft Total Potential Uncertainty

Figure 4.20
Groundwater Elevation Differences
 NW Natural Gasco Site

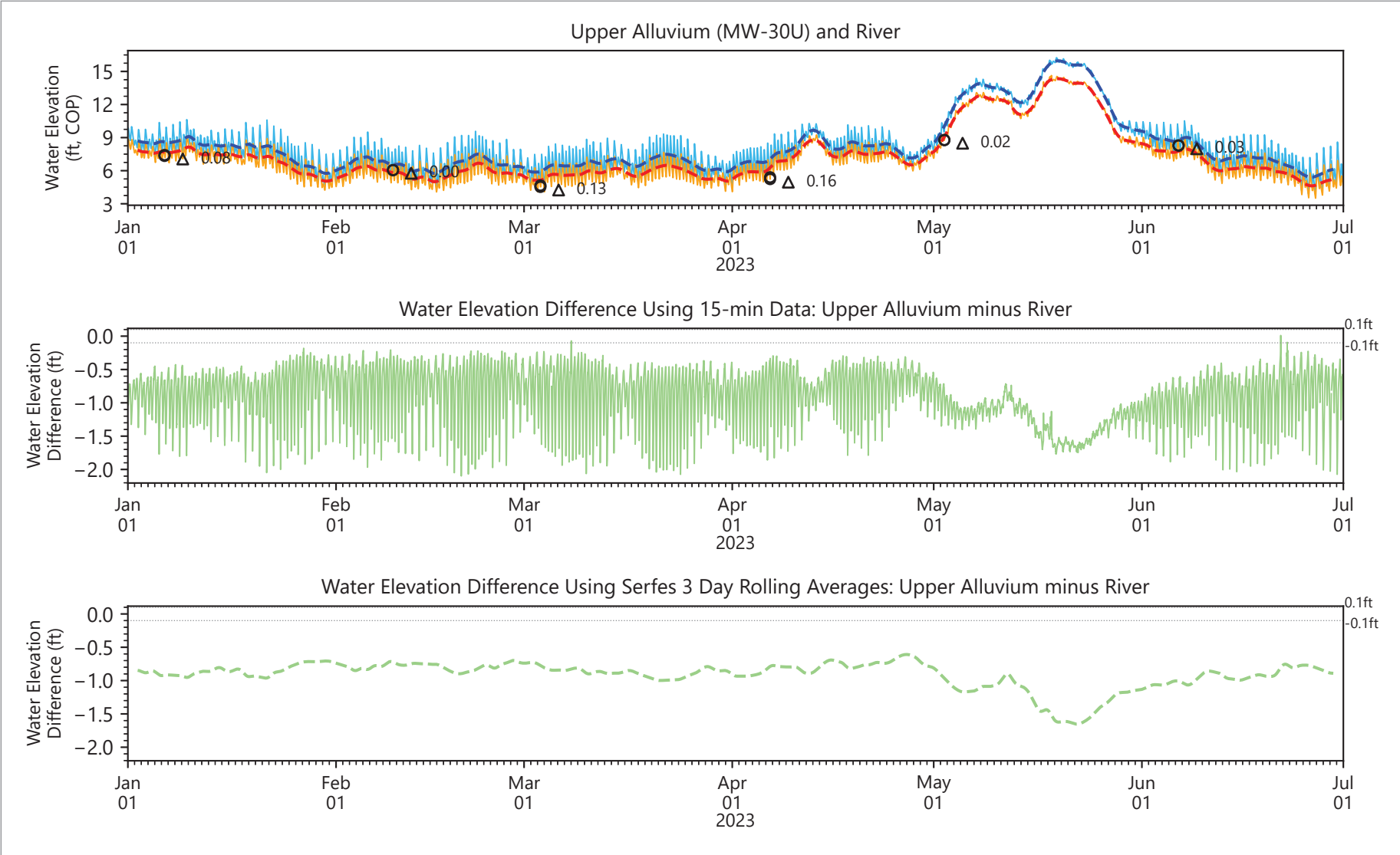


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- Upper Alluvium: 15-min Data
- - - Upper Alluvium: Serfes Averages
- River: 15-min Data
- - - River: Serfes Averages
- Water Elevation Difference: 15-min Data
- - - Water Elevation Difference: Serfes Averages
- ⋯ 0.1 ft Total Potential Uncertainty

Figure 4.21
Groundwater Elevation Differences
 NW Natural Gasco Site



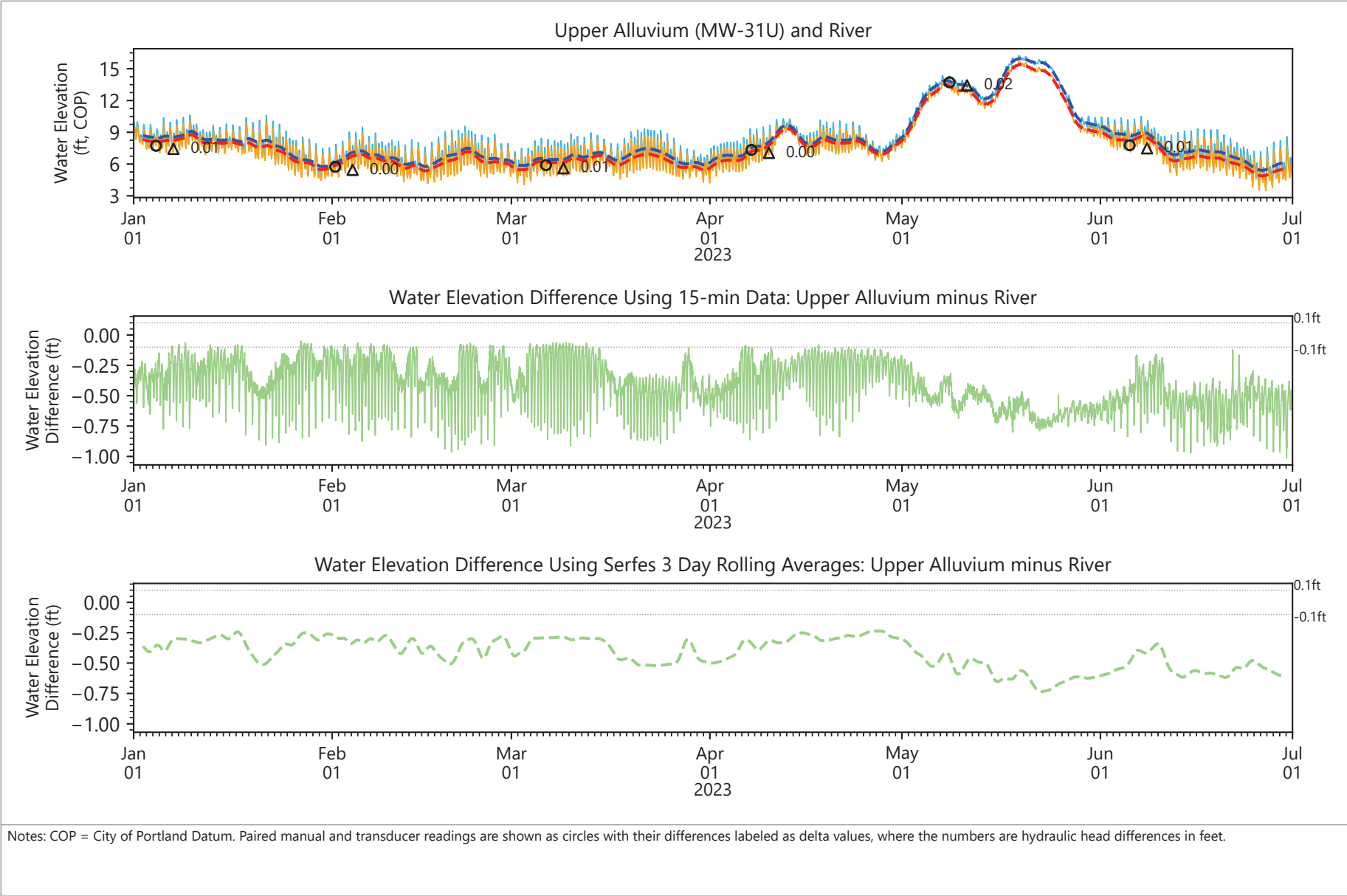
Notes: COP = City of Portland Datum. Paired manual and transducer readings are shown as circles with their differences labeled as delta values, where the numbers are hydraulic head differences in feet.

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- Upper Alluvium: 15-min Data
- - - Upper Alluvium: Serfes Averages
- River: 15-min Data
- - - River: Serfes Averages
- Water Elevation Difference: 15-min Data
- - - Water Elevation Difference: Serfes Averages
- ⋯ 0.1 ft Total Potential Uncertainty

Figure 4.22
Groundwater Elevation Differences
 NW Natural Gasco Site

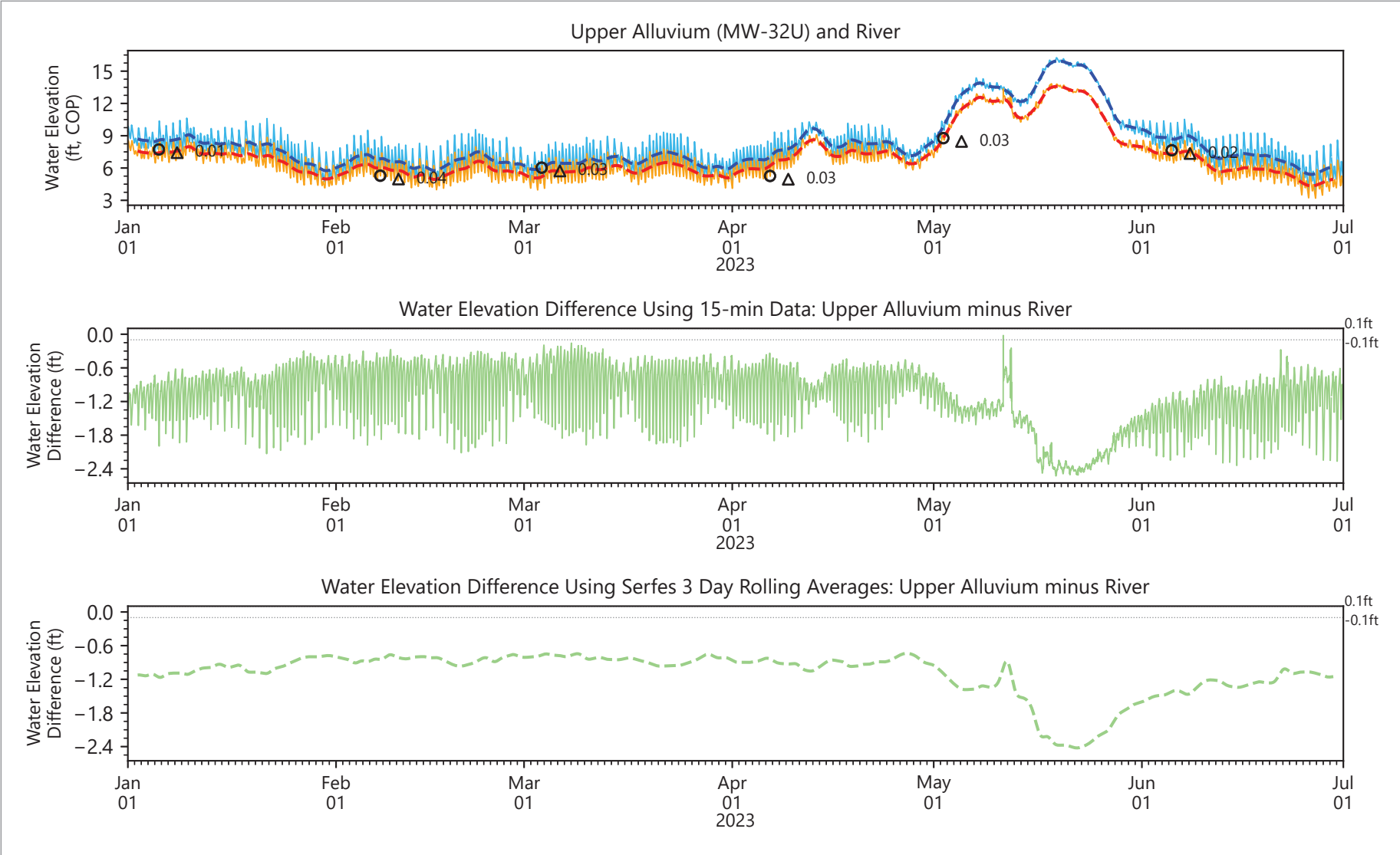


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- Upper Alluvium: 15-min Data
- - - Upper Alluvium: Serfes Averages
- River: 15-min Data
- - - River: Serfes Averages
- Water Elevation Difference: 15-min Data
- - - Water Elevation Difference: Serfes Averages
- ⋯⋯⋯ 0.1 ft Total Potential Uncertainty

Figure 4.23
Groundwater Elevation Differences
 NW Natural Gasco Site



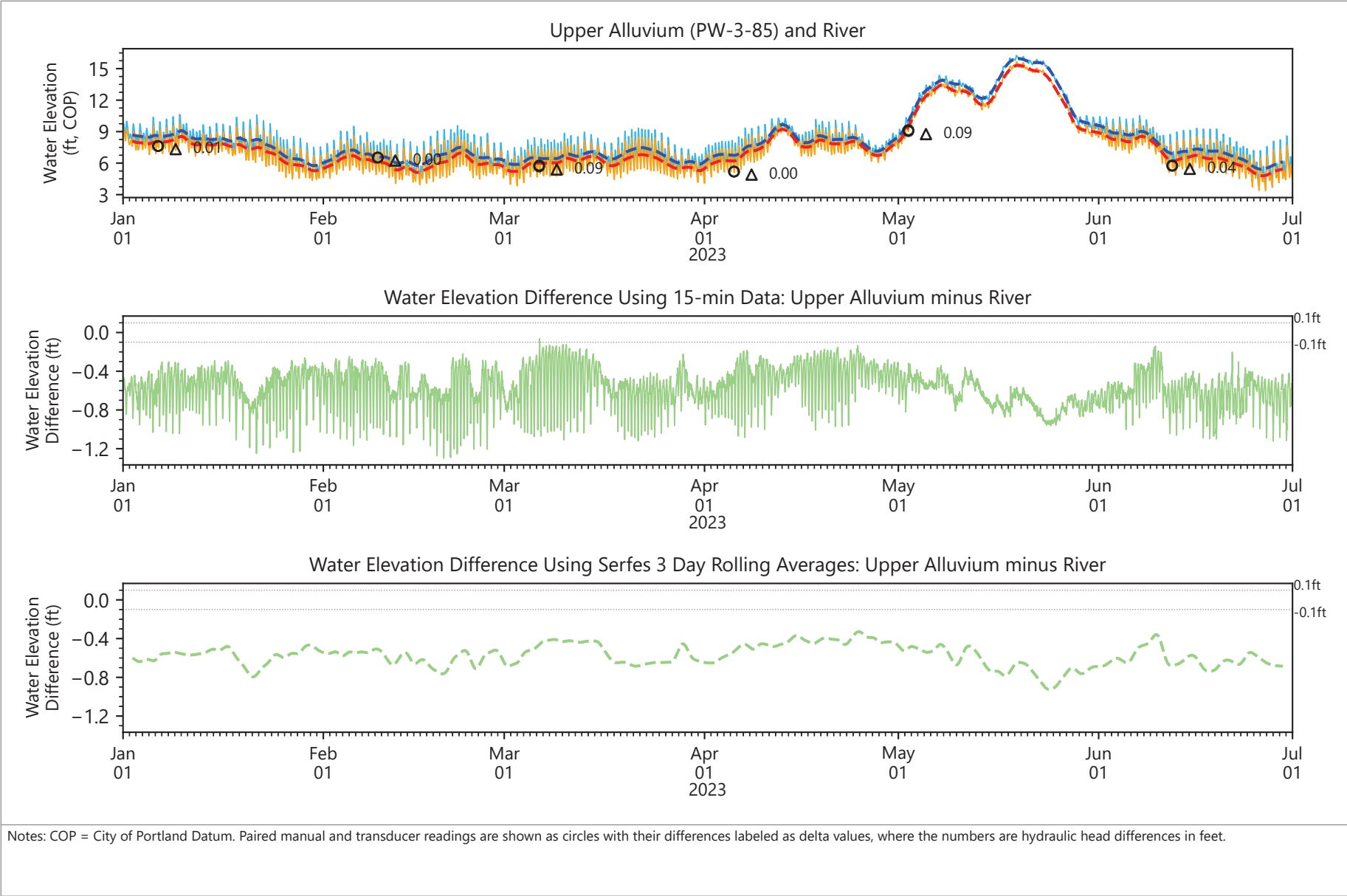
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- Upper Alluvium: 15-min Data
- - - Upper Alluvium: Serfes Averages
- River: 15-min Data
- - - River: Serfes Averages
- Water Elevation Difference: 15-min Data
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- ⋯⋯⋯ 0.1 ft Total Potential Uncertainty

Figure 4.24
Groundwater Elevation Differences
 NW Natural Gasco Site

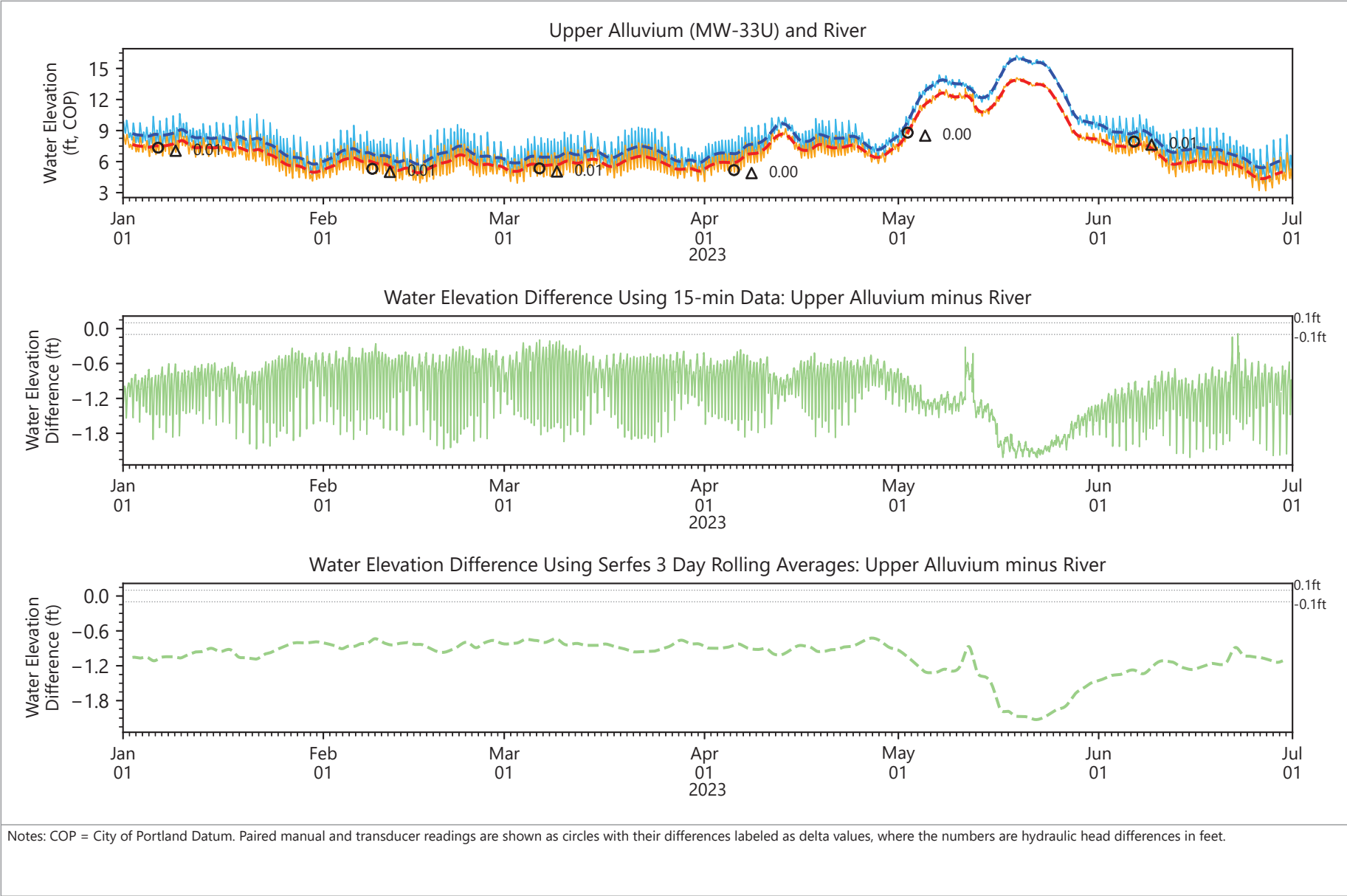


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- Upper Alluvium: 15-min Data
- - - Upper Alluvium: Serfes Averages
- River: 15-min Data
- - - River: Serfes Averages
- Water Elevation Difference: 15-min Data
- - - Water Elevation Difference: Serfes Averages
- ⋯⋯⋯ 0.1 ft Total Potential Uncertainty

Figure 4.25
Groundwater Elevation Differences
 NW Natural Gasco Site



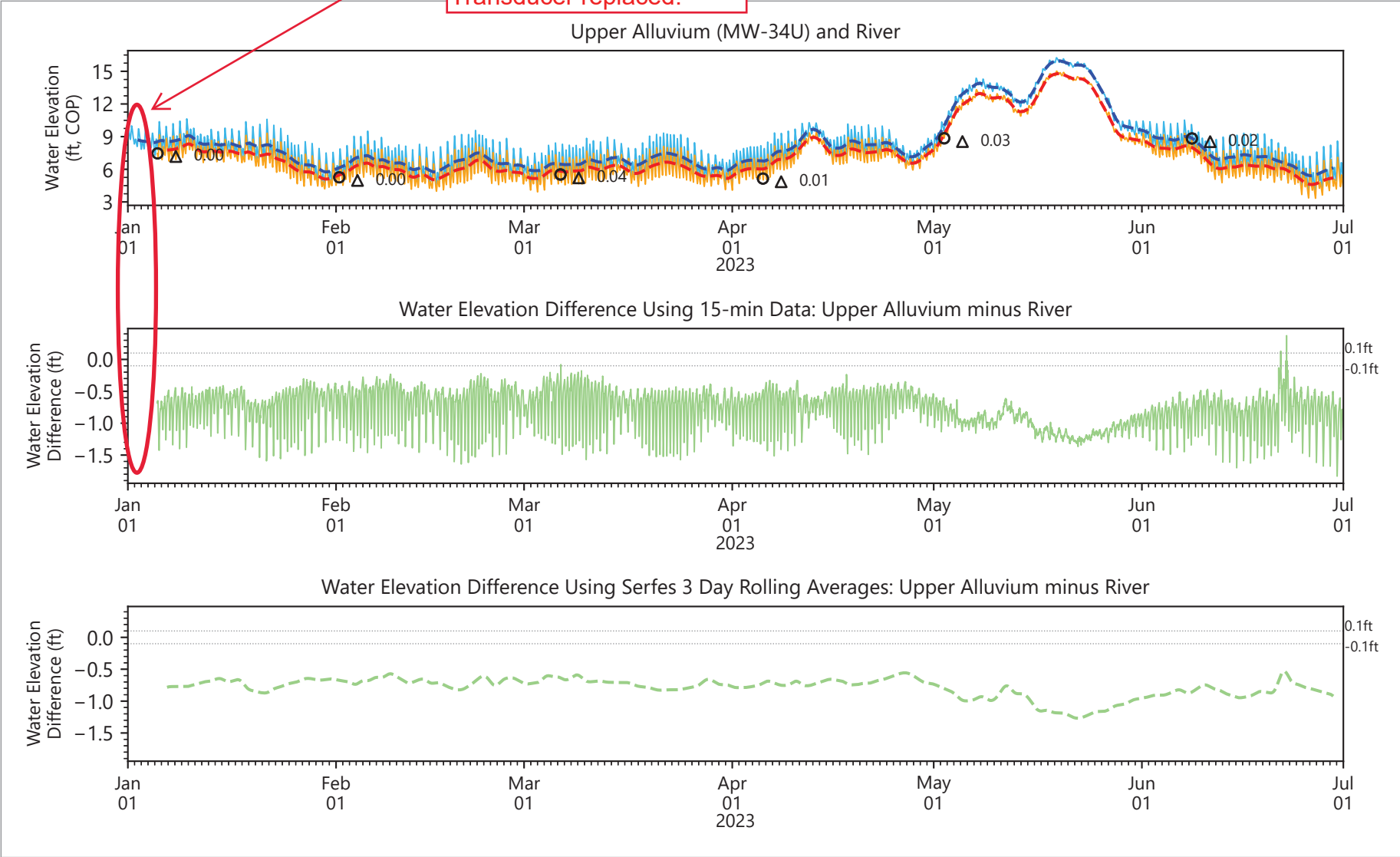
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- Upper Alluvium: 15-min Data
- - - Upper Alluvium: Serfes Averages
- River: 15-min Data
- - - River: Serfes Averages
- Water Elevation Difference: 15-min Data
- - - Water Elevation Difference: Serfes Averages
- ⋯ 0.1 ft Total Potential Uncertainty

Figure 4.26
Groundwater Elevation Differences
 NW Natural Gasco Site

Transducer malfunction.
Data unrecoverable.
Transducer replaced.



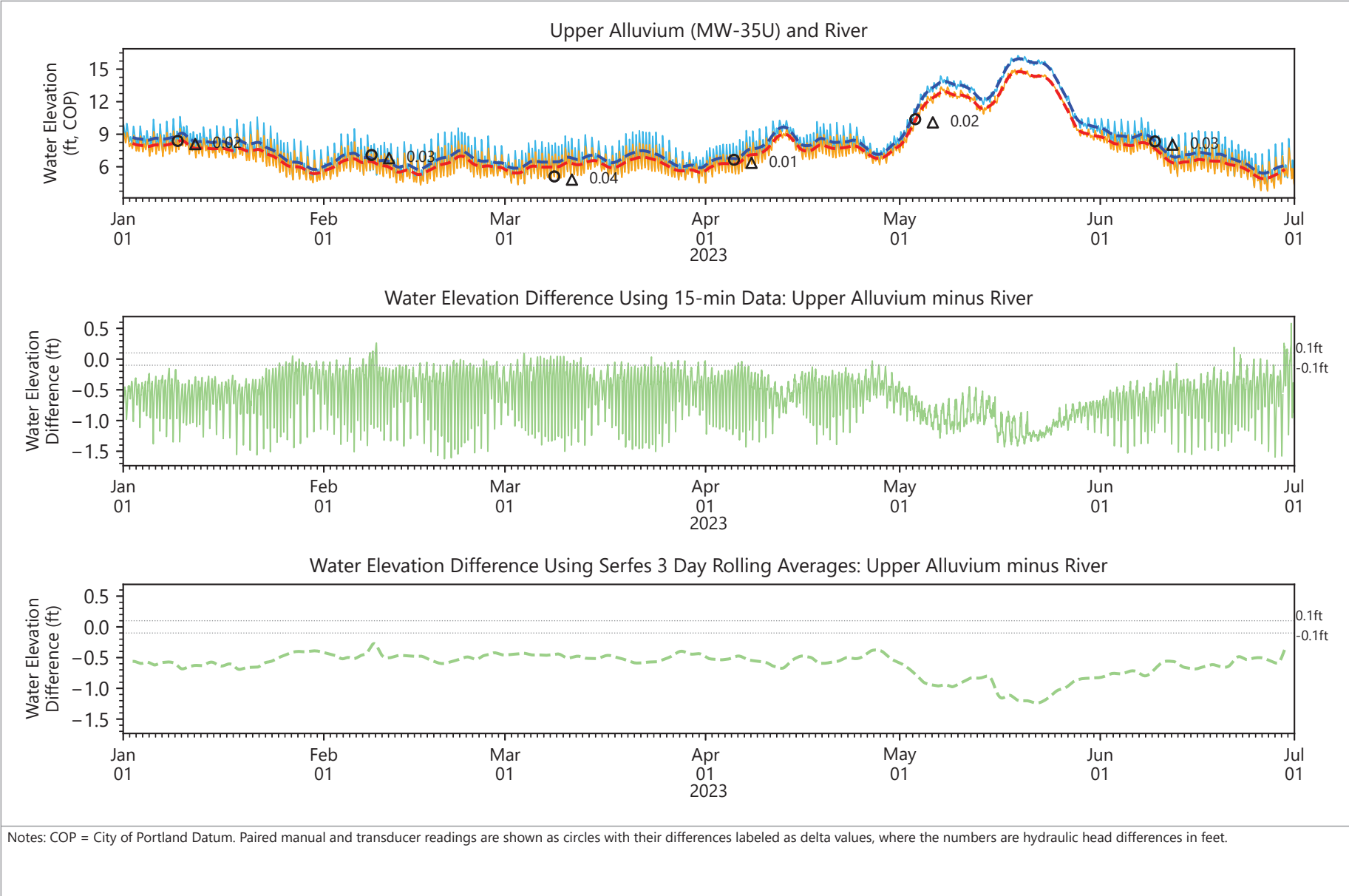
Notes: COP = City of Portland Datum. Paired manual and transducer readings are shown as circles with their differences labeled as delta values, where the numbers are hydraulic head differences in feet.

Publish Date: 08/09/2023 15:10 PM | User: SEA-AMEU
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- Upper Alluvium: 15-min Data
- Upper Alluvium: Serfes Averages
- River: 15-min Data
- River: Serfes Averages
- Water Elevation Difference: 15-min Data
- Water Elevation Difference: Serfes Averages
- 0.1 ft Total Potential Uncertainty

Figure 4.27
Groundwater Elevation Differences
 NW Natural Gasco Site



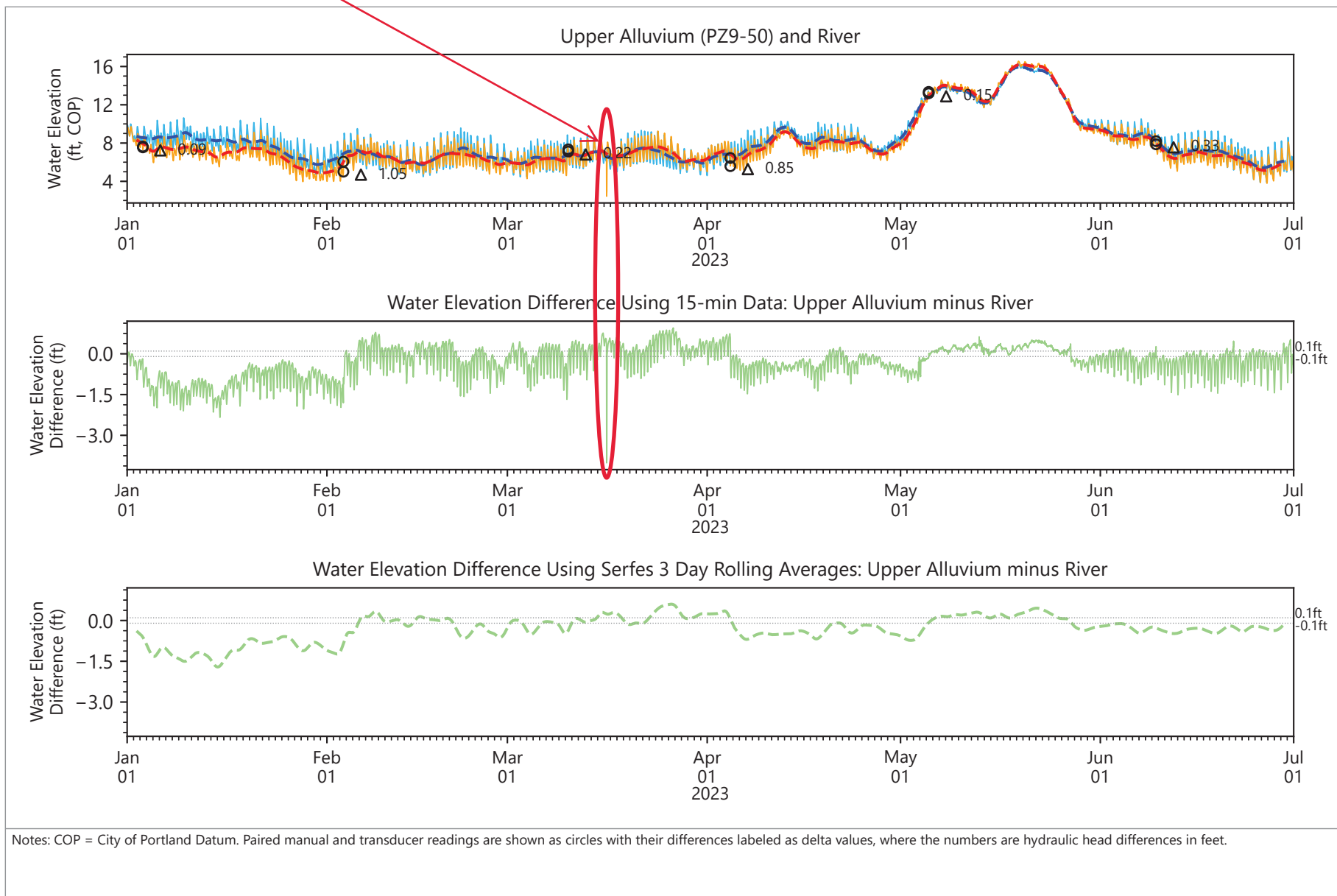
Publish Date: 08/09/2023 15:10 PM | User: SEA-AMEU
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- Upper Alluvium: 15-min Data
- - - Upper Alluvium: Serfes Averages
- River: 15-min Data
- - - River: Serfes Averages
- Water Elevation Difference: 15-min Data
- - - Water Elevation Difference: Serfes Averages
- ⋯ 0.1 ft Total Potential Uncertainty

Figure 4.28
Groundwater Elevation Differences
 NW Natural Gasco Site

1Q Groundwater Sampling

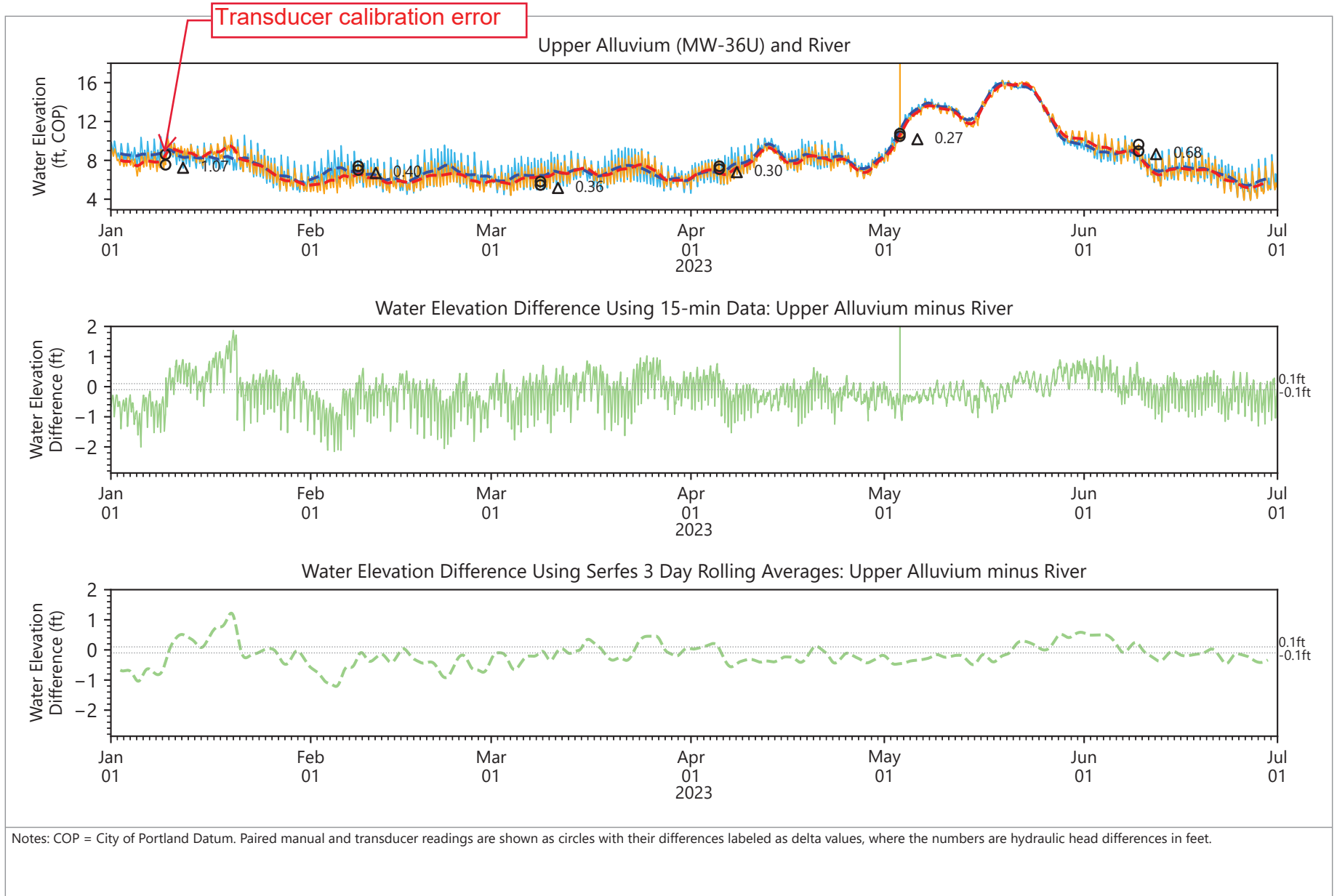


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- Upper Alluvium: 15-min Data
- Upper Alluvium: Serfes Averages
- River: 15-min Data
- River: Serfes Averages
- Water Elevation Difference: 15-min Data
- Water Elevation Difference: Serfes Averages
- 0.1 ft Total Potential Uncertainty

Figure 4.29
Groundwater Elevation Differences
 NW Natural Gasco Site



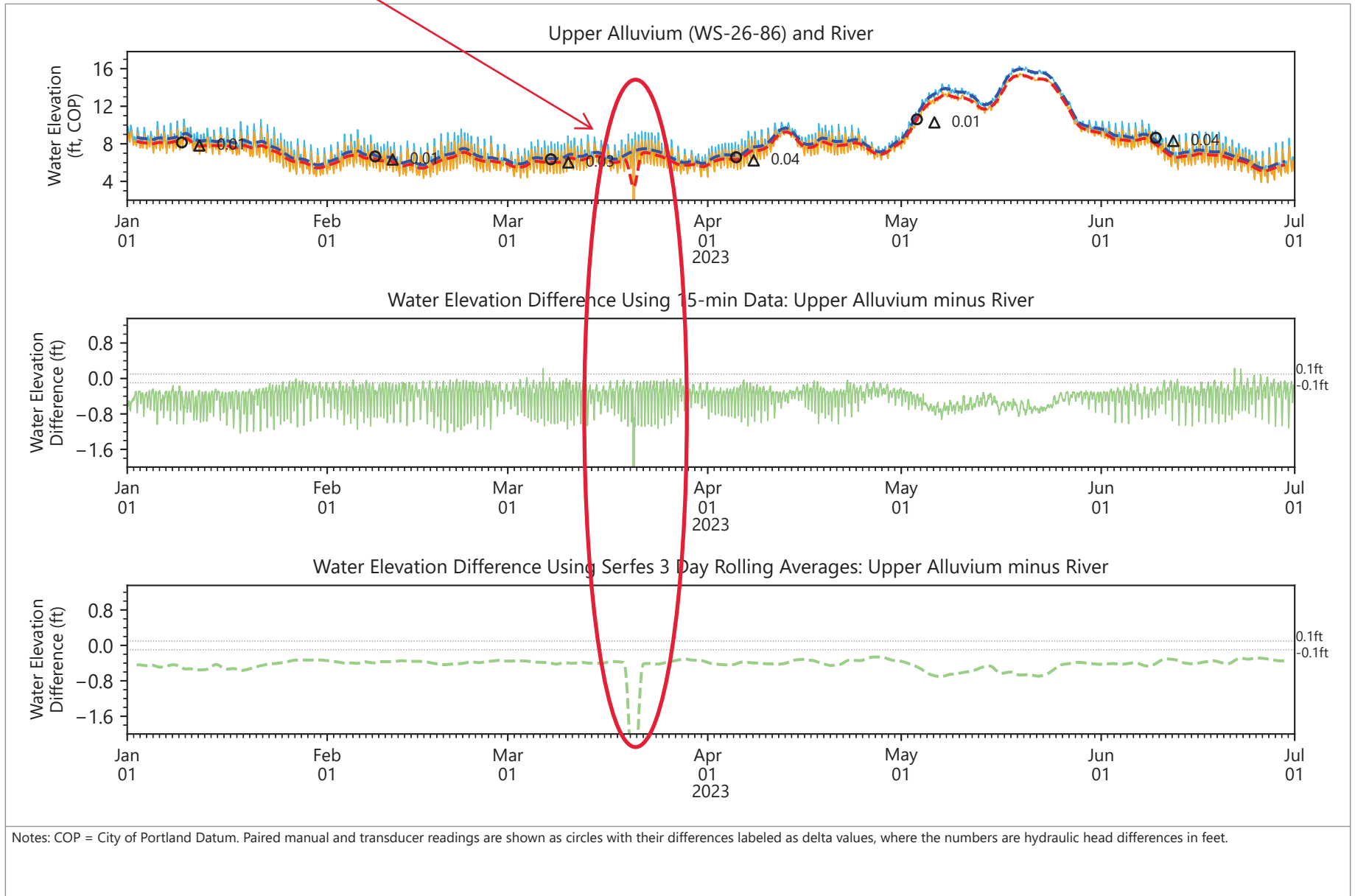
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- Upper Alluvium: 15-min Data
- - - Upper Alluvium: Serfes Averages
- River: 15-min Data
- - - River: Serfes Averages
- Water Elevation Difference: 15-min Data
- - - Water Elevation Difference: Serfes Averages
- ⋯ 0.1 ft Total Potential Uncertainty

Figure 4.30
Groundwater Elevation Differences
 NW Natural Gasco Site

1Q Groundwater Sampling

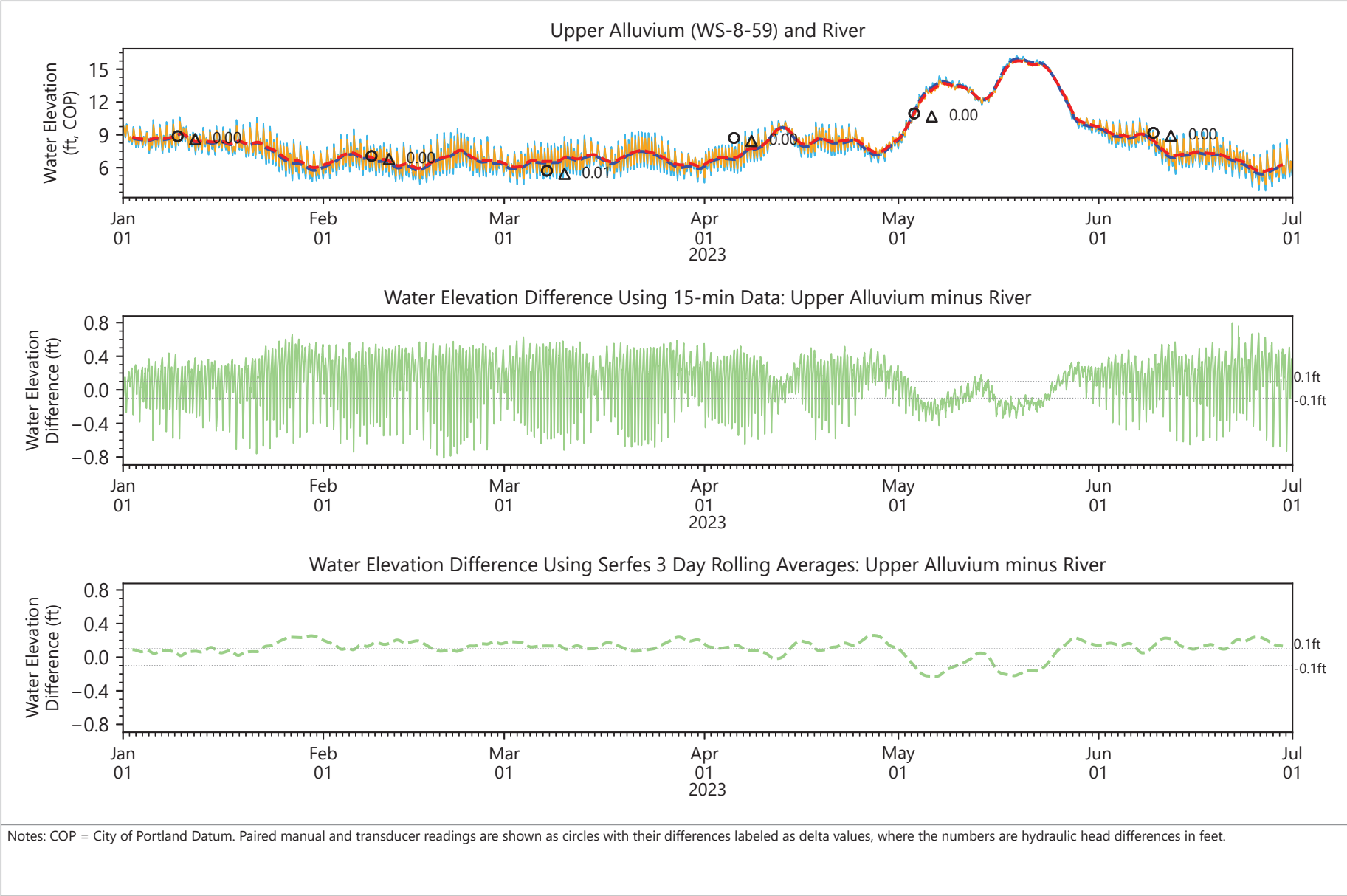


Publish Date: 08/09/2023 15:10 PM | User: SEA-AMEU
 \\fuji\Anchor\Data Management\Users\Albert\Projects\Gasco\Python\elelevation_time_series_per6months_EQuIS.py



- Upper Alluvium: 15-min Data
- Upper Alluvium: Serfes Averages
- River: 15-min Data
- River: Serfes Averages
- Water Elevation Difference: 15-min Data
- Water Elevation Difference: Serfes Averages
- 0.1 ft Total Potential Uncertainty

Figure 4.31
Groundwater Elevation Differences
 NW Natural Gasco Site



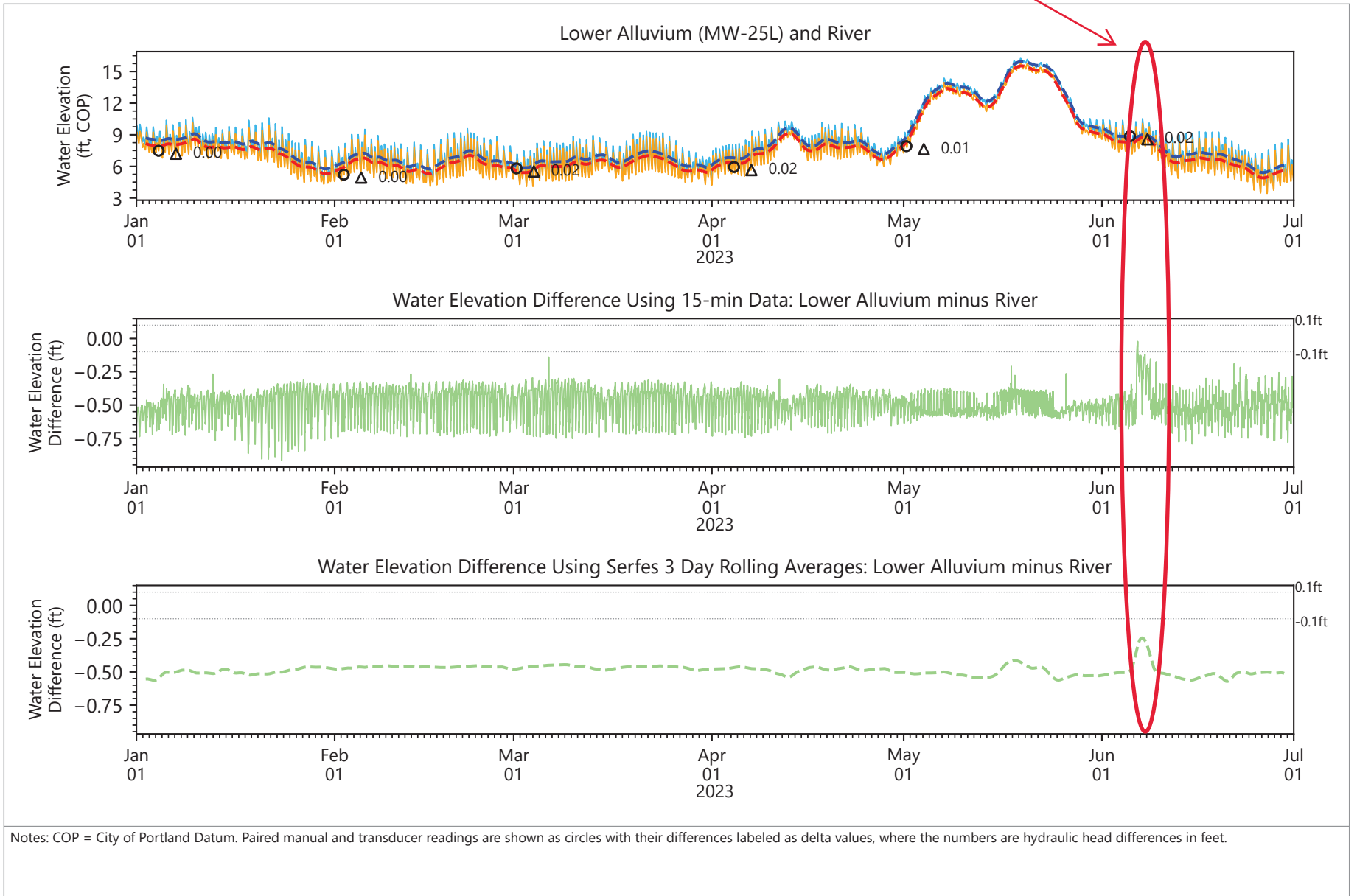
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- Upper Alluvium: 15-min Data
- - - Upper Alluvium: Serfes Averages
- River: 15-min Data
- - - River: Serfes Averages
- Water Elevation Difference: 15-min Data
- - - Water Elevation Difference: Serfes Averages
- 0.1 ft Total Potential Uncertainty

Figure 4.32
Groundwater Elevation Differences
 NW Natural Gasco Site

PW-10Lb offline



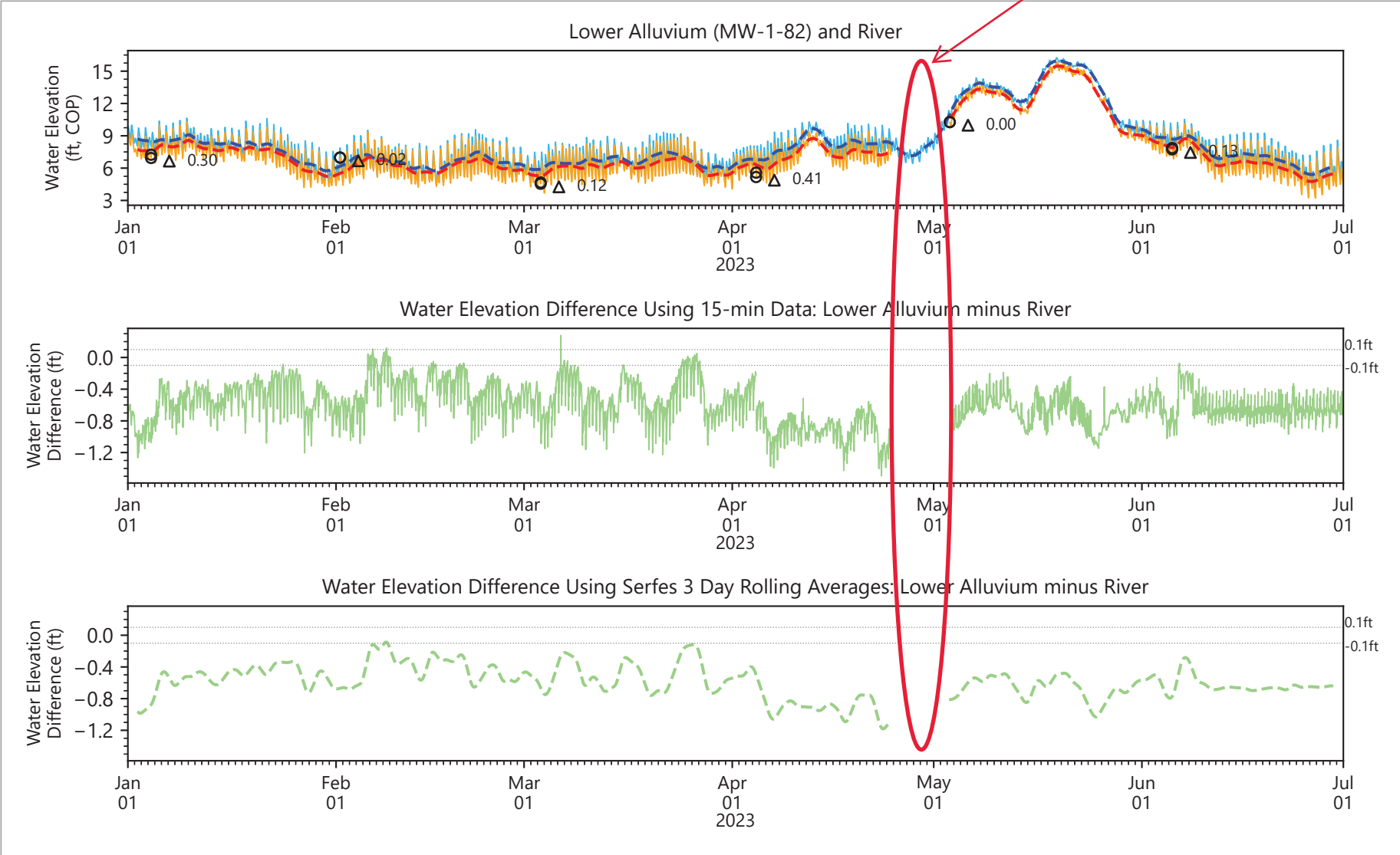
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\\fuj\Anchor\Data Management\Users\Albert\Projects\Gasco\Python\elelevation_time_series_per6months_EQUIS.py



- Lower Alluvium: 15-min Data
- Lower Alluvium: Serfes Averages
- River: 15-min Data
- River: Serfes Averages
- Water Elevation Difference: 15-min Data
- Water Elevation Difference: Serfes Averages
- 0.1 ft Total Potential Uncertainty

Figure 4.33
Groundwater Elevation Differences
NW Natural Gasco Site

Transducer malfunction.
Data unrecoverable.



Notes: COP = City of Portland Datum. Paired manual and transducer readings are shown as circles with their differences labeled as delta values, where the numbers are hydraulic head differences in feet.

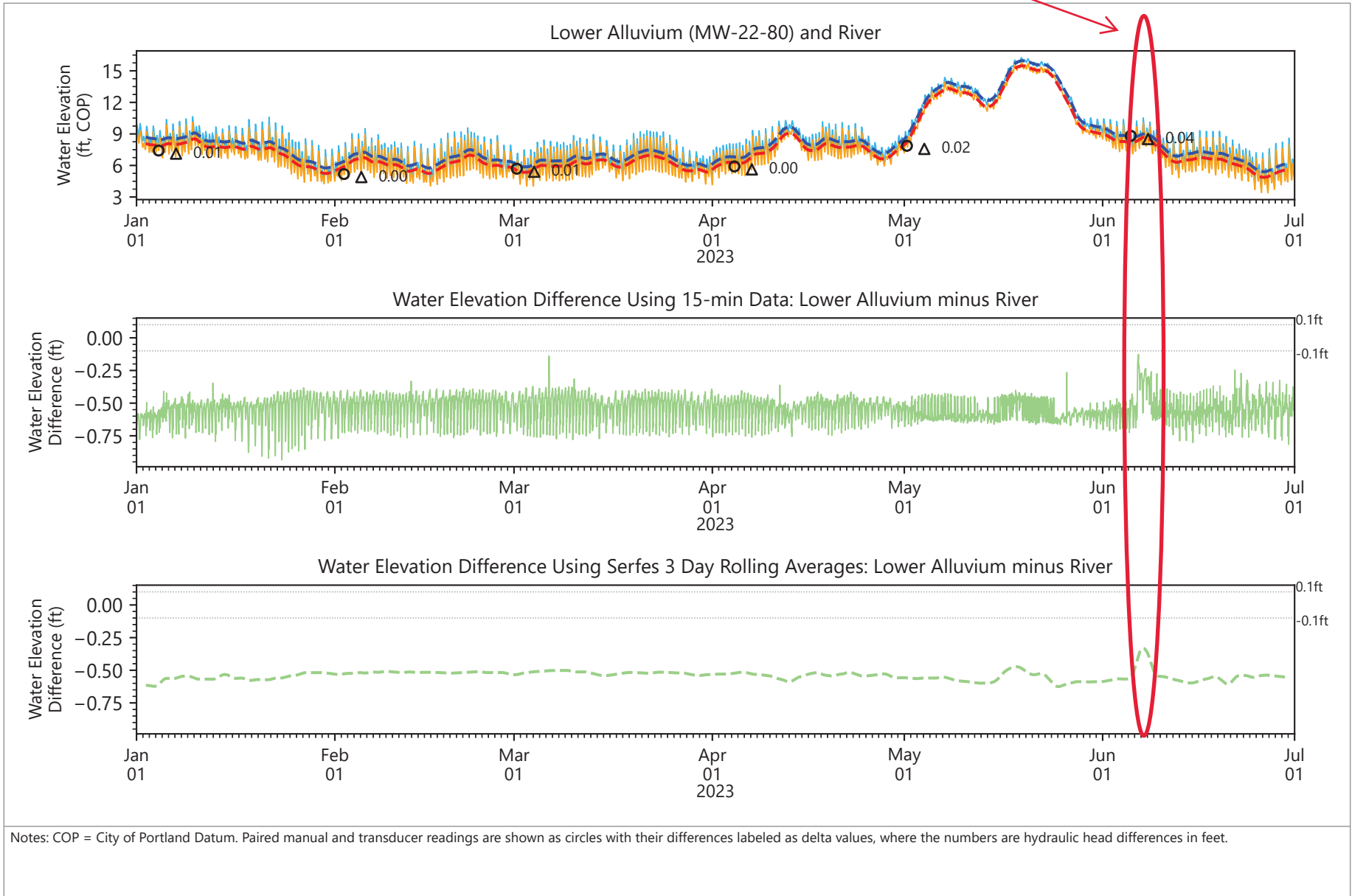
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- Lower Alluvium: 15-min Data
- Lower Alluvium: Serfes Averages
- River: 15-min Data
- River: Serfes Averages
- Water Elevation Difference: 15-min Data
- Water Elevation Difference: Serfes Averages
- 0.1 ft Total Potential Uncertainty

Figure 4.34
Groundwater Elevation Differences
NW Natural Gasco Site

PW-10Lb offline

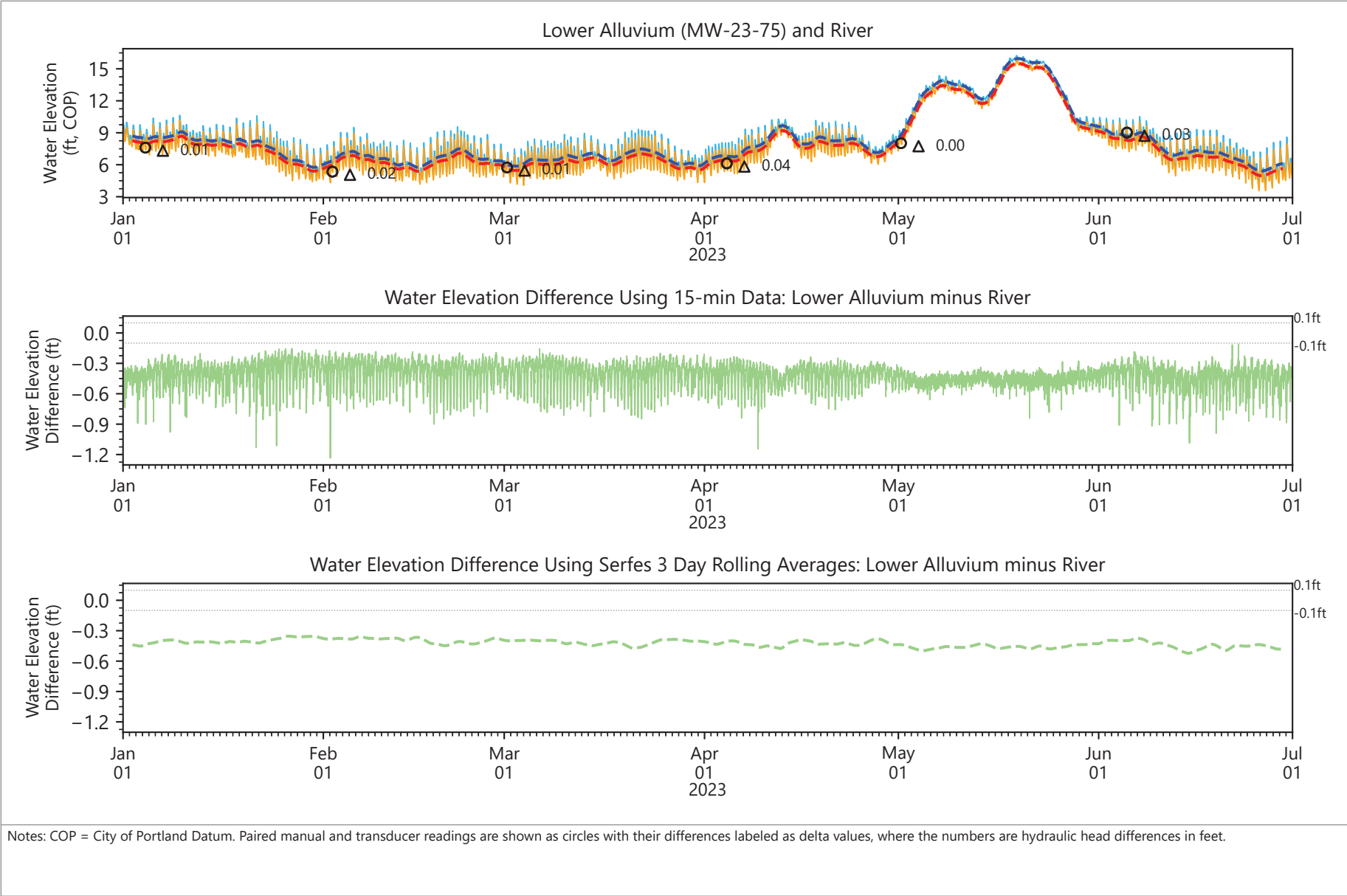


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\\fuji\Anchor\Data Management\Users\Albert\Projects\Gasco\Python\elelevation_time_series_per6months_EQUIS.py



- Lower Alluvium: 15-min Data
- Lower Alluvium: Serfes Averages
- River: 15-min Data
- River: Serfes Averages
- Water Elevation Difference: 15-min Data
- Water Elevation Difference: Serfes Averages
- 0.1 ft Total Potential Uncertainty

Figure 4.35
Groundwater Elevation Differences
NW Natural Gasco Site



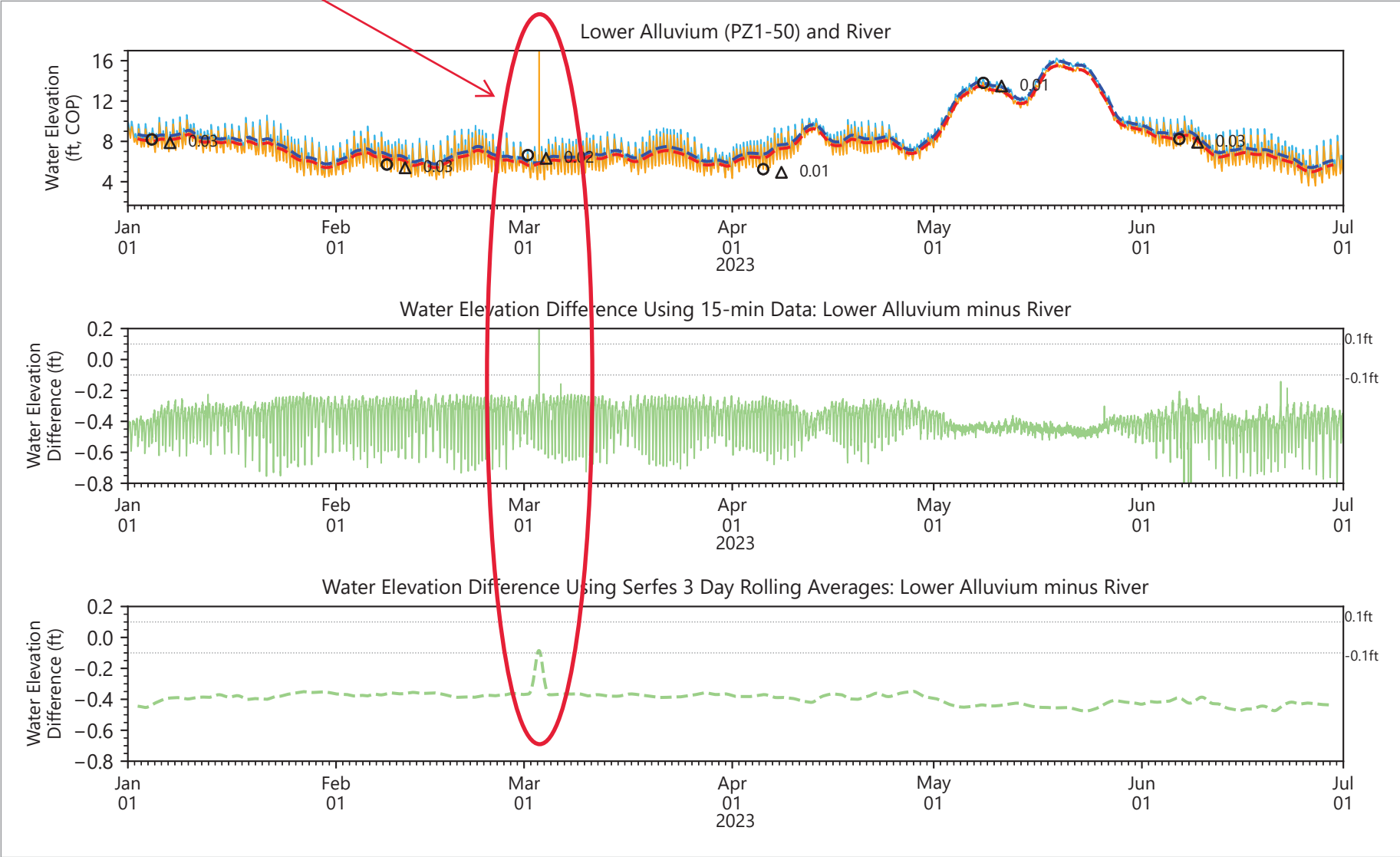
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 \\fuji\Anchor\Data Management\Users\Albert\Projects\Gasco\Python\elelevation_time_series_per6months_EQUIS.py



- Lower Alluvium: 15-min Data
- - - Lower Alluvium: Serfes Averages
- River: 15-min Data
- - - River: Serfes Averages
- Water Elevation Difference: 15-min Data
- - - Water Elevation Difference: Serfes Averages
- ⋯⋯⋯ 0.1 ft Total Potential Uncertainty

Figure 4.36
Groundwater Elevation Differences
 NW Natural Gasco Site

Transducer maintenance



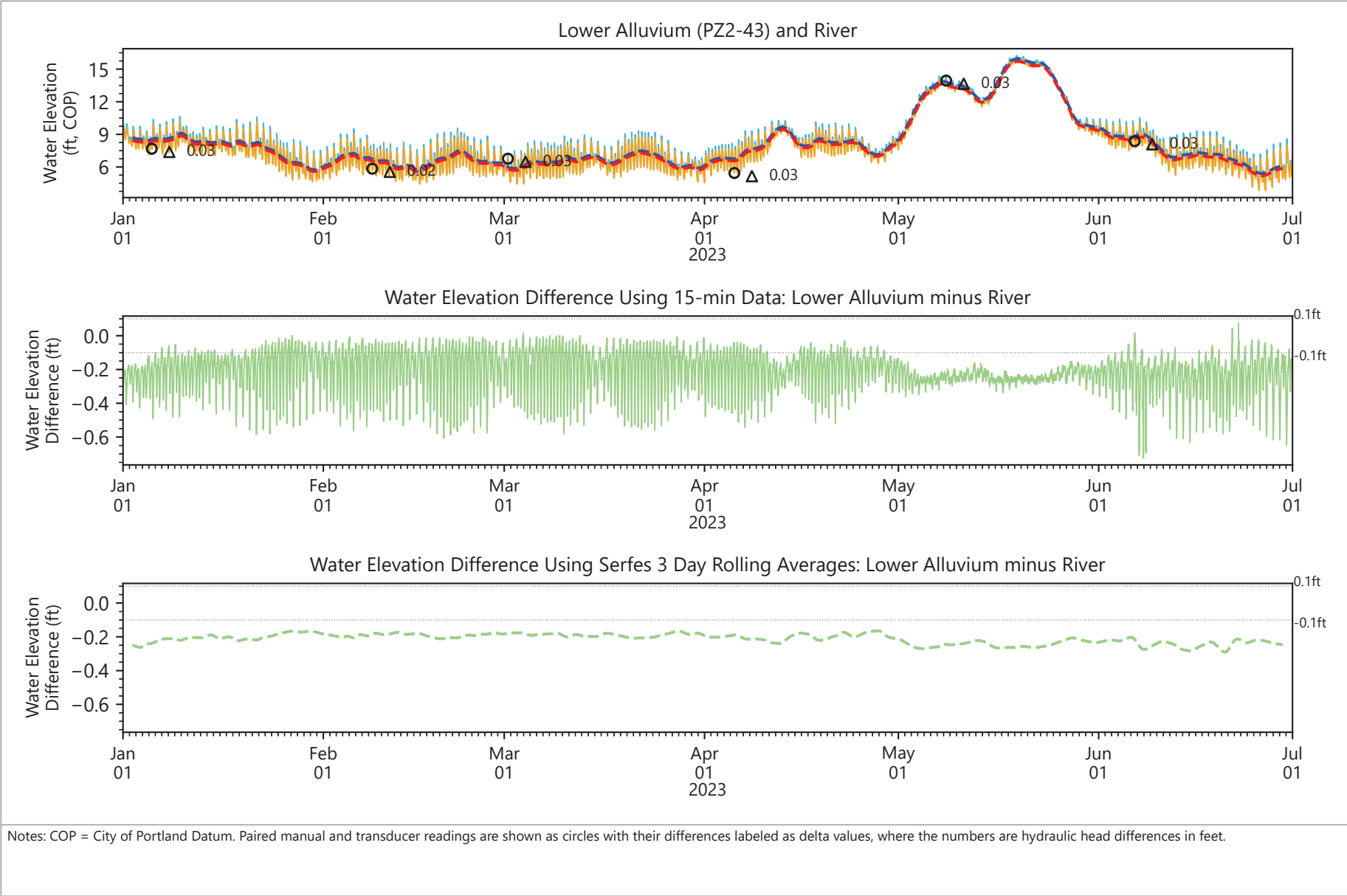
Notes: COP = City of Portland Datum. Paired manual and transducer readings are shown as circles with their differences labeled as delta values, where the numbers are hydraulic head differences in feet.

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- Lower Alluvium: 15-min Data
- Lower Alluvium: Serfes Averages
- River: 15-min Data
- River: Serfes Averages
- Water Elevation Difference: 15-min Data
- Water Elevation Difference: Serfes Averages
- 0.1 ft Total Potential Uncertainty

Figure 4.37
Groundwater Elevation Differences
NW Natural Gasco Site



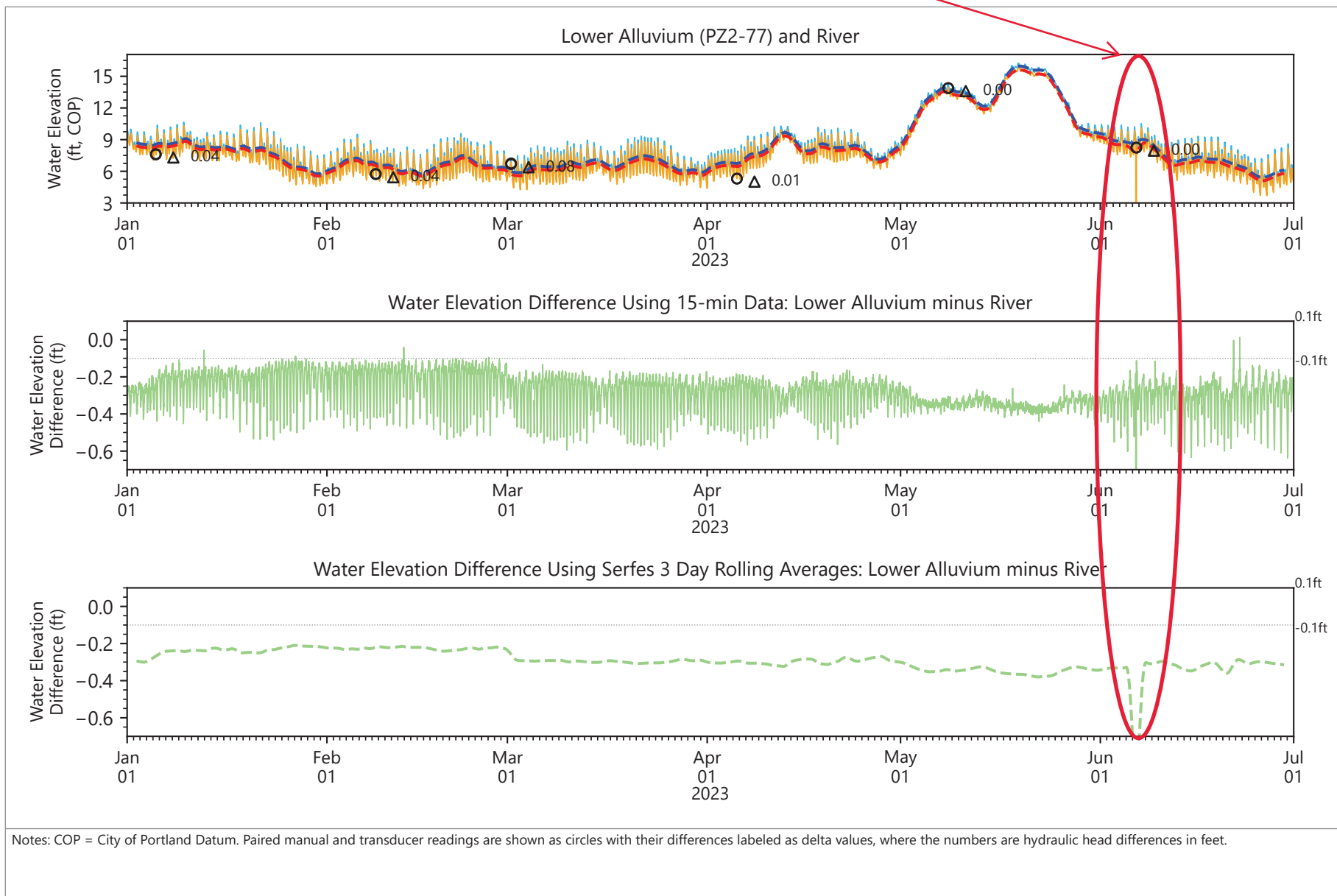
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- Lower Alluvium: 15-min Data
- - - Lower Alluvium: Serfes Averages
- River: 15-min Data
- - - River: Serfes Averages
- Water Elevation Difference: 15-min Data
- - - Water Elevation Difference: Serfes Averages
- 0.1 ft Total Potential Uncertainty

Figure 4.38
Groundwater Elevation Differences
 NW Natural Gasco Site

Transducer Maintenance.



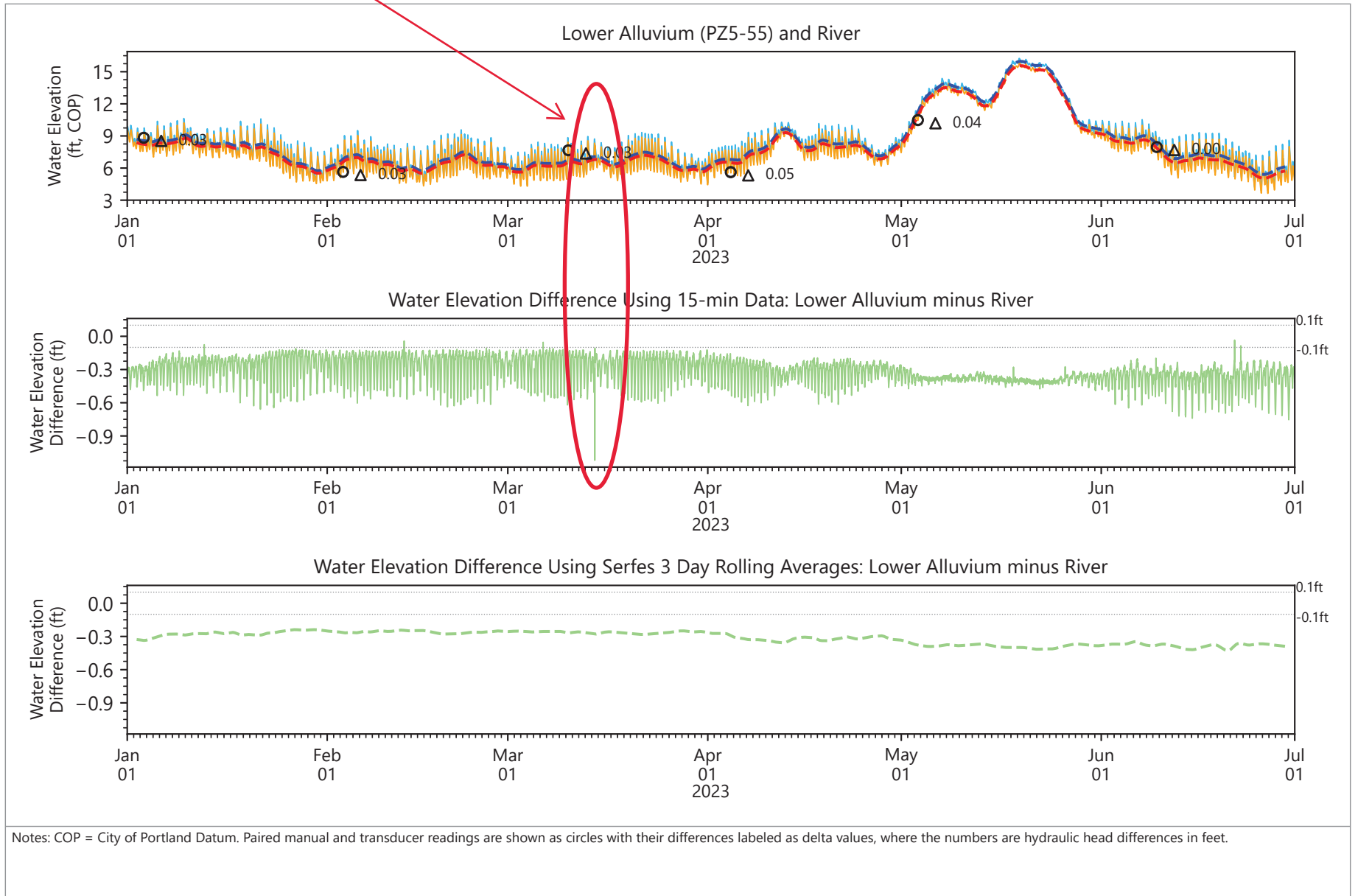
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- Lower Alluvium: 15-min Data
- - - Lower Alluvium: Serfes Averages
- River: 15-min Data
- - - River: Serfes Averages
- Water Elevation Difference: 15-min Data
- - - Water Elevation Difference: Serfes Averages
- 0.1 ft Total Potential Uncertainty

Figure 4.39
Groundwater Elevation Differences
 NW Natural Gasco Site

1Q Groundwater Sampling

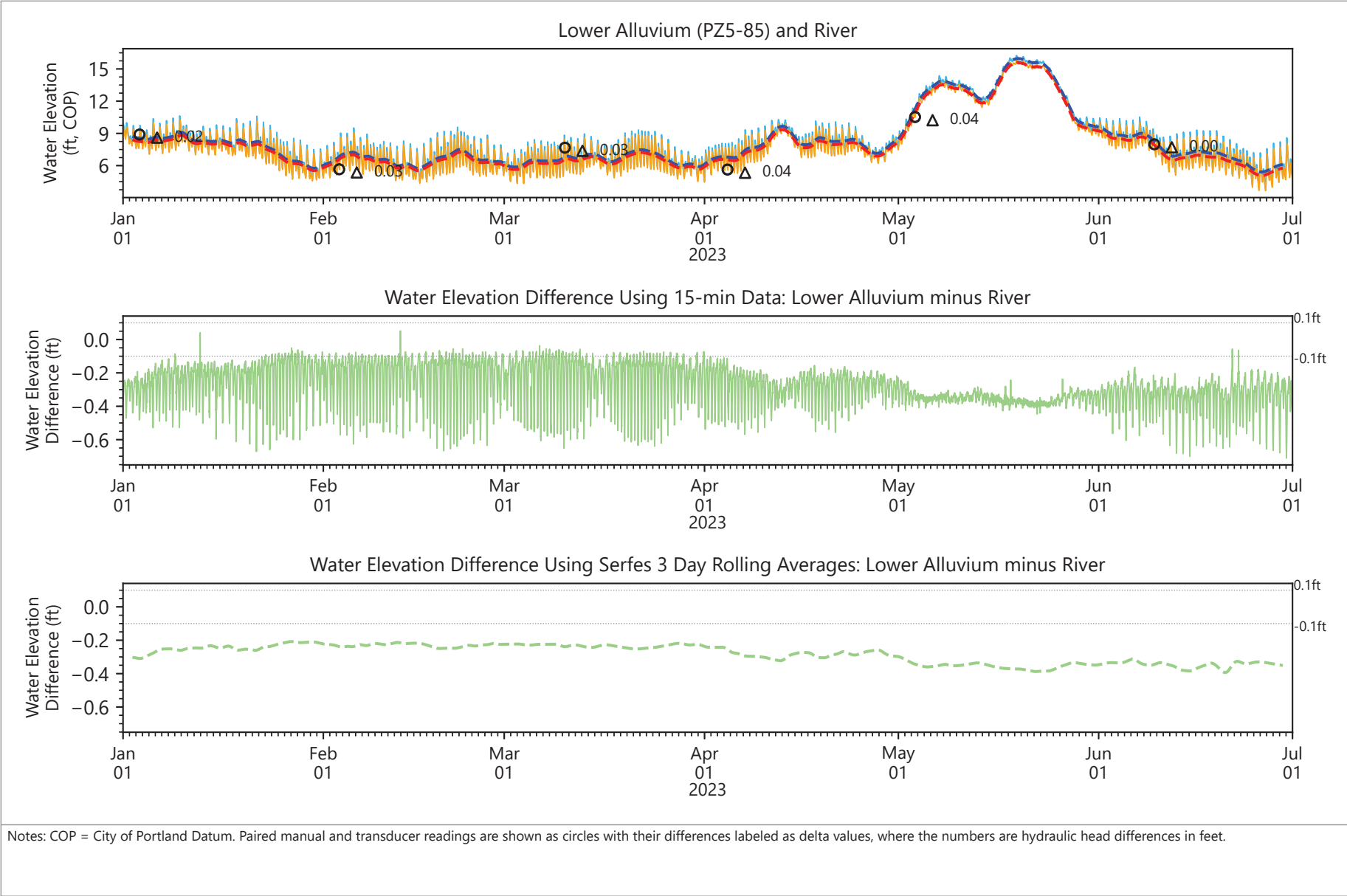


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- Lower Alluvium: 15-min Data
- - - Lower Alluvium: Serfes Averages
- River: 15-min Data
- - - River: Serfes Averages
- Water Elevation Difference: 15-min Data
- - - Water Elevation Difference: Serfes Averages
- ⋯ 0.1 ft Total Potential Uncertainty

Figure 4.40
Groundwater Elevation Differences
 NW Natural Gasco Site

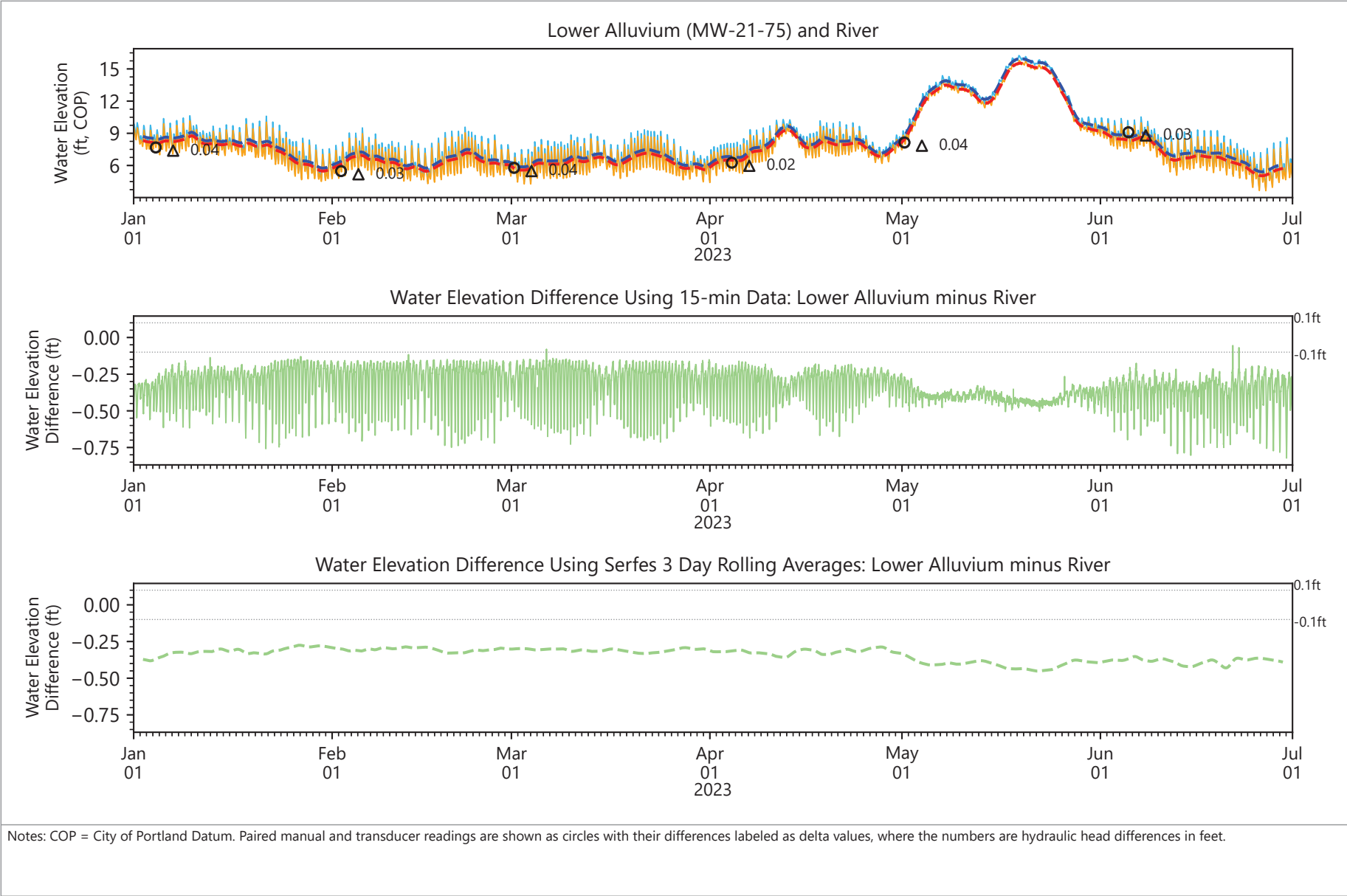


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- Lower Alluvium: 15-min Data
- - - Lower Alluvium: Serfes Averages
- River: 15-min Data
- - - River: Serfes Averages
- Water Elevation Difference: 15-min Data
- - - Water Elevation Difference: Serfes Averages
- ⋯⋯⋯ 0.1 ft Total Potential Uncertainty

Figure 4.41
Groundwater Elevation Differences
 NW Natural Gasco Site

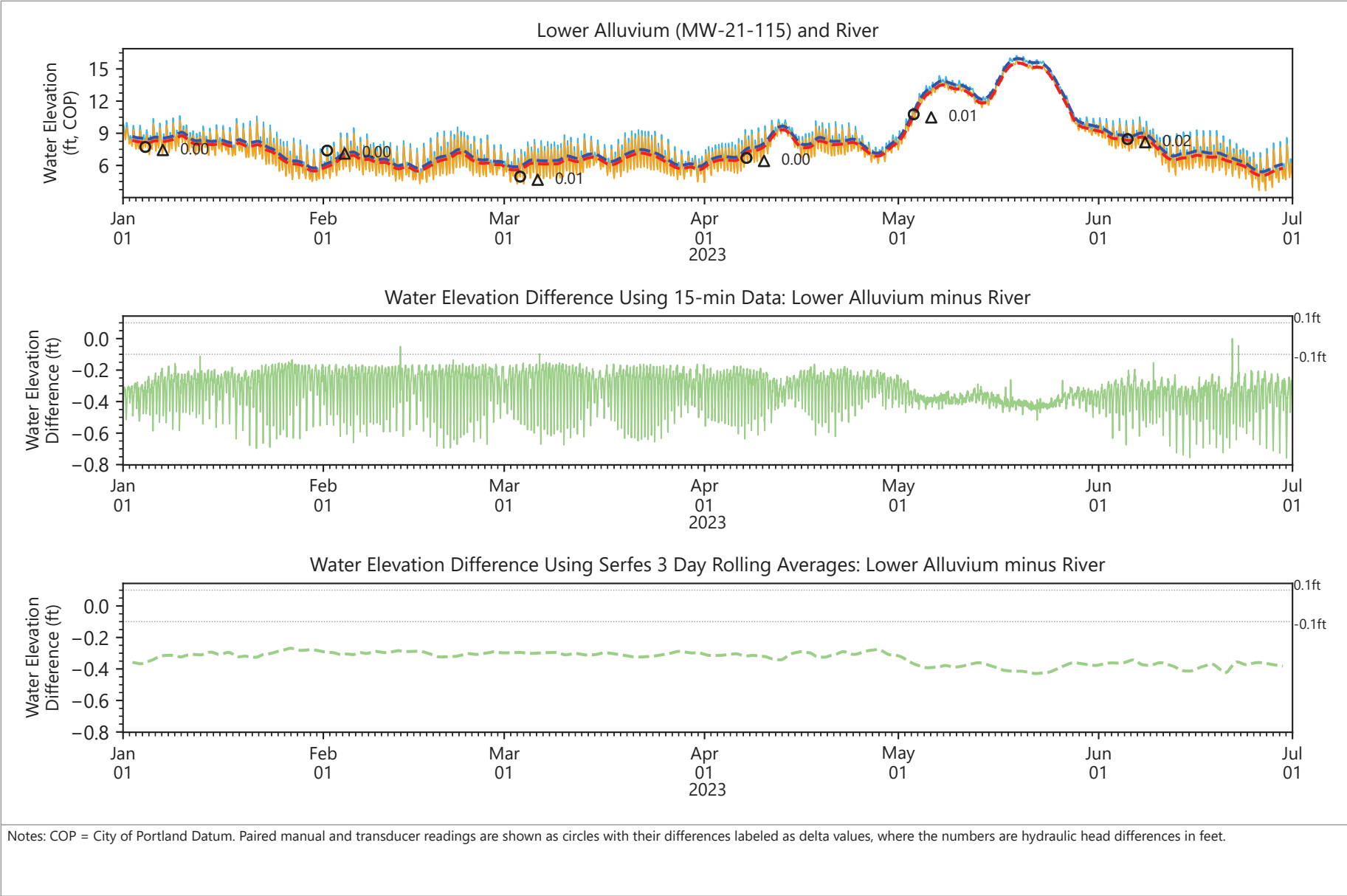


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- Lower Alluvium: 15-min Data
- - - Lower Alluvium: Serfes Averages
- River: 15-min Data
- - - River: Serfes Averages
- Water Elevation Difference: 15-min Data
- - - Water Elevation Difference: Serfes Averages
- ⋯⋯⋯ 0.1 ft Total Potential Uncertainty

Figure 4.42
Groundwater Elevation Differences
 NW Natural Gasco Site

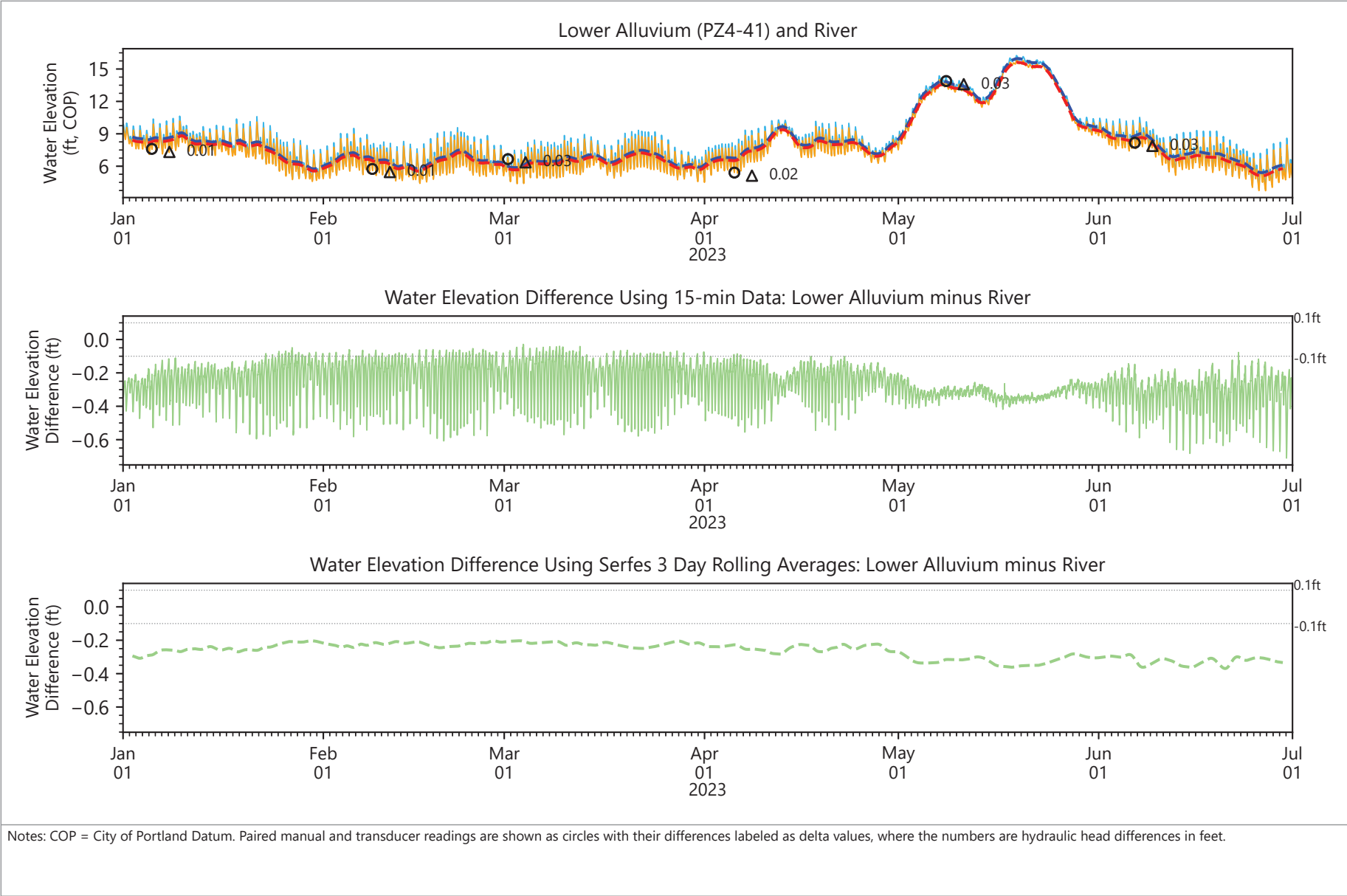


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- Lower Alluvium: 15-min Data
- - - Lower Alluvium: Serfes Averages
- River: 15-min Data
- - - River: Serfes Averages
- Water Elevation Difference: 15-min Data
- - - Water Elevation Difference: Serfes Averages
- ⋯⋯⋯ 0.1 ft Total Potential Uncertainty

Figure 4.43
Groundwater Elevation Differences
 NW Natural Gasco Site

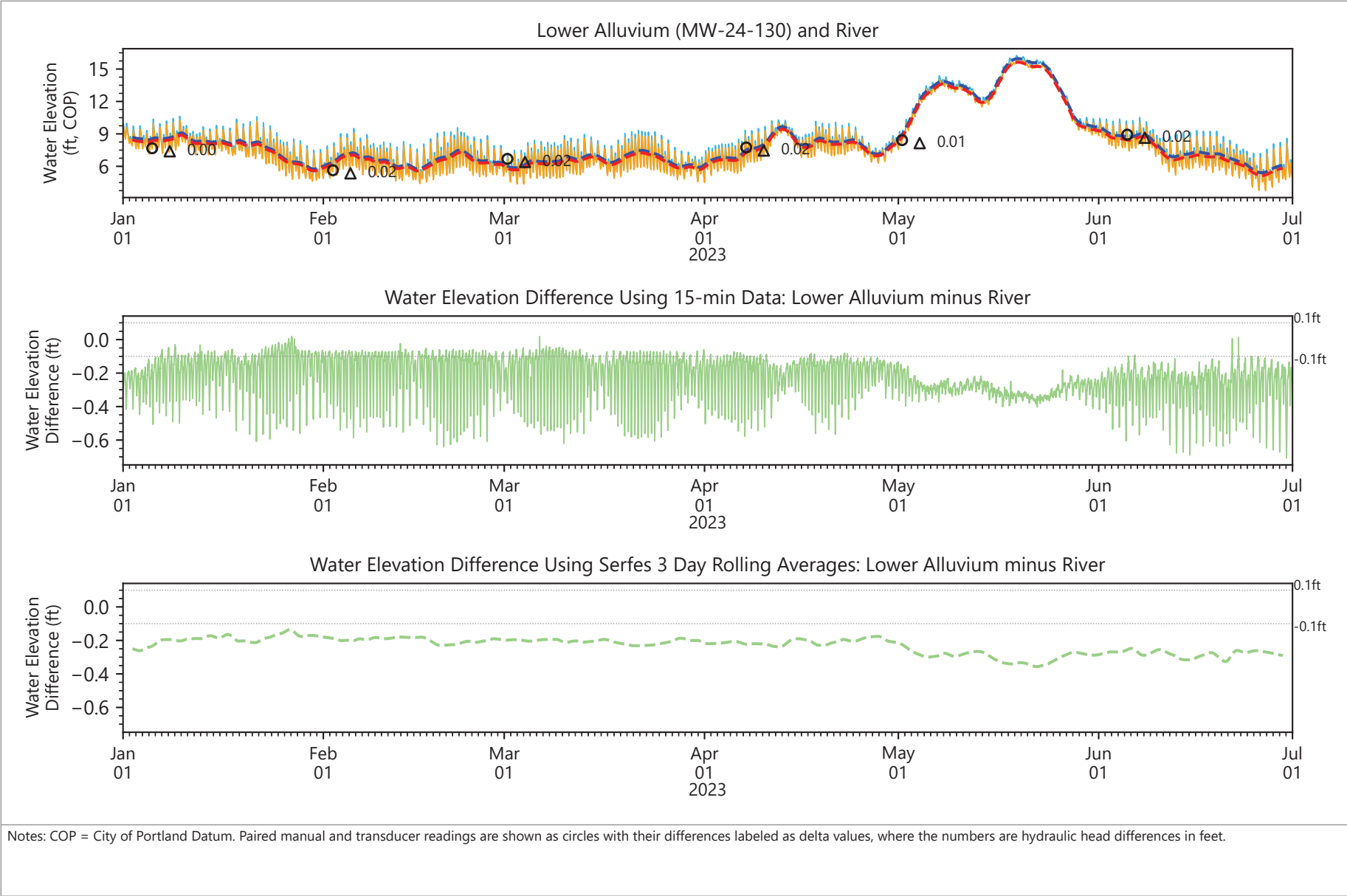


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- Lower Alluvium: 15-min Data
- - - Lower Alluvium: Serfes Averages
- River: 15-min Data
- - - River: Serfes Averages
- Water Elevation Difference: 15-min Data
- - - Water Elevation Difference: Serfes Averages
- 0.1 ft Total Potential Uncertainty

Figure 4.44
Groundwater Elevation Differences
 NW Natural Gasco Site



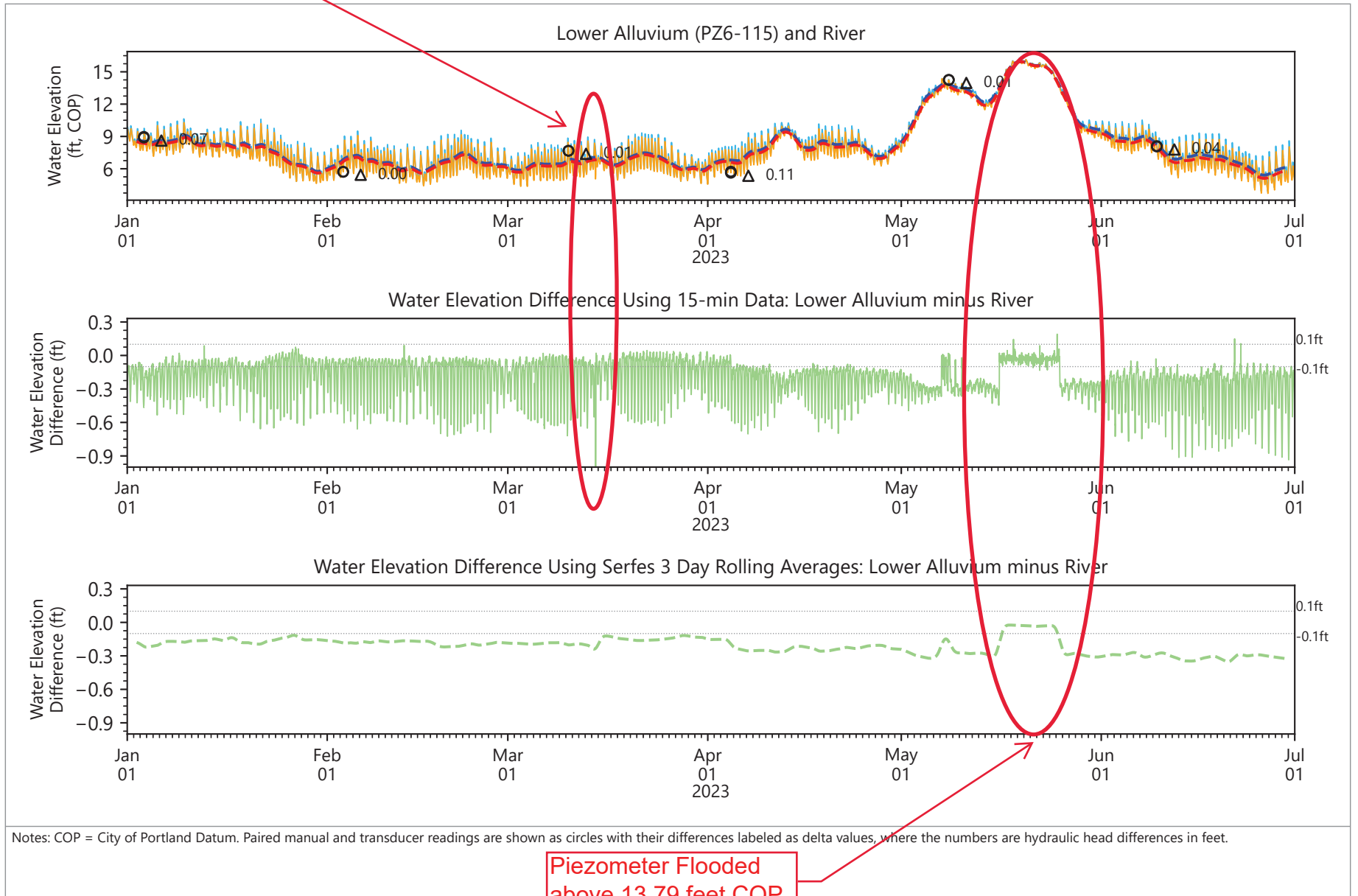
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- Lower Alluvium: 15-min Data
- - - Lower Alluvium: Serfes Averages
- River: 15-min Data
- - - River: Serfes Averages
- Water Elevation Difference: 15-min Data
- - - Water Elevation Difference: Serfes Averages
- ⋯⋯⋯ 0.1 ft Total Potential Uncertainty

Figure 4.45
Groundwater Elevation Differences
 NW Natural Gasco Site

1Q Groundwater Sampling

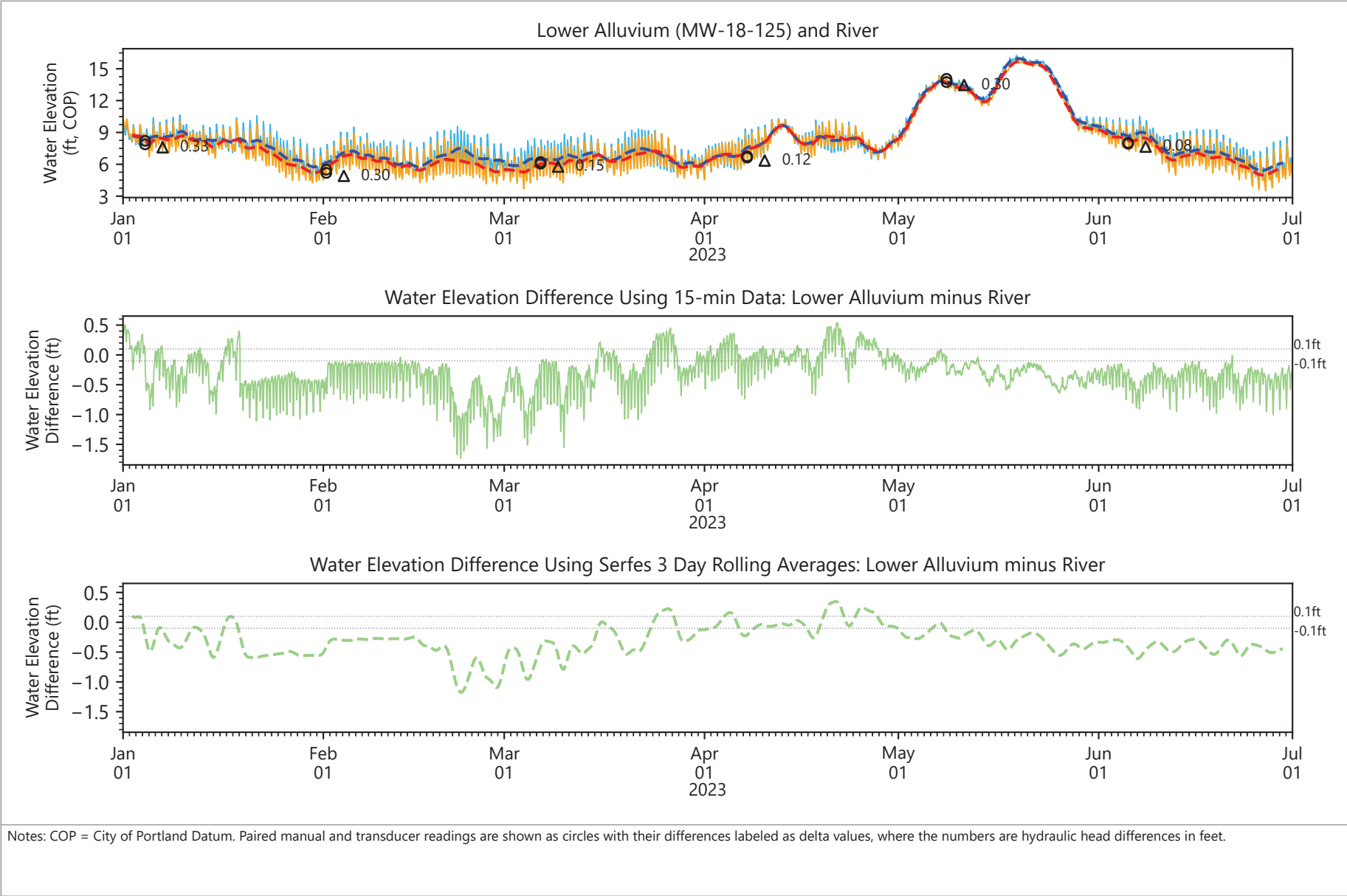


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- Lower Alluvium: 15-min Data
- Lower Alluvium: Serfes Averages
- River: 15-min Data
- River: Serfes Averages
- Water Elevation Difference: 15-min Data
- Water Elevation Difference: Serfes Averages
- 0.1 ft Total Potential Uncertainty

Figure 4.46
Groundwater Elevation Differences
NW Natural Gasco Site

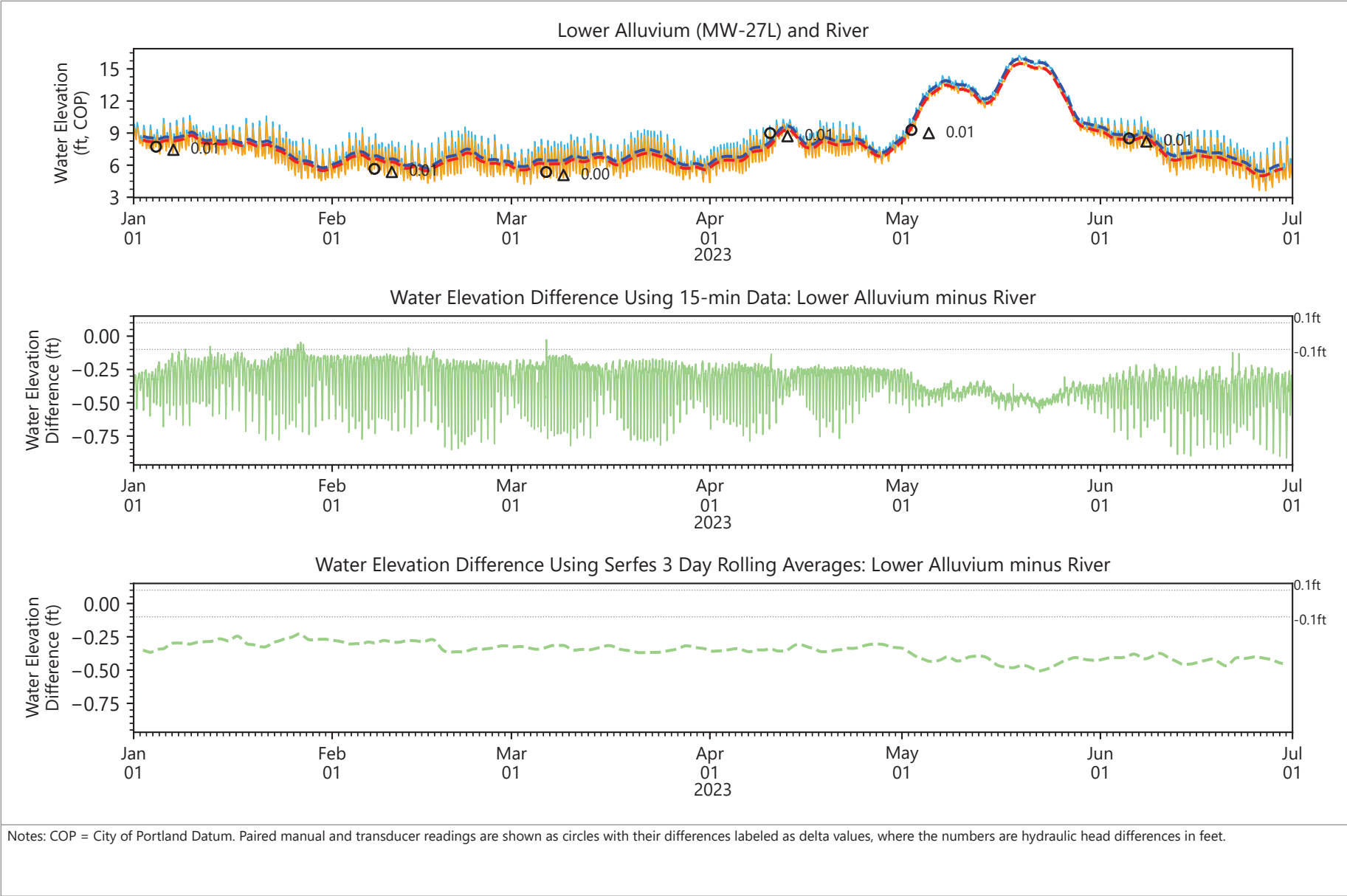


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- Lower Alluvium: 15-min Data
- - - Lower Alluvium: Serfes Averages
- River: 15-min Data
- - - River: Serfes Averages
- Water Elevation Difference: 15-min Data
- - - Water Elevation Difference: Serfes Averages
- 0.1 ft Total Potential Uncertainty

Figure 4.47
Groundwater Elevation Differences
 NW Natural Gasco Site

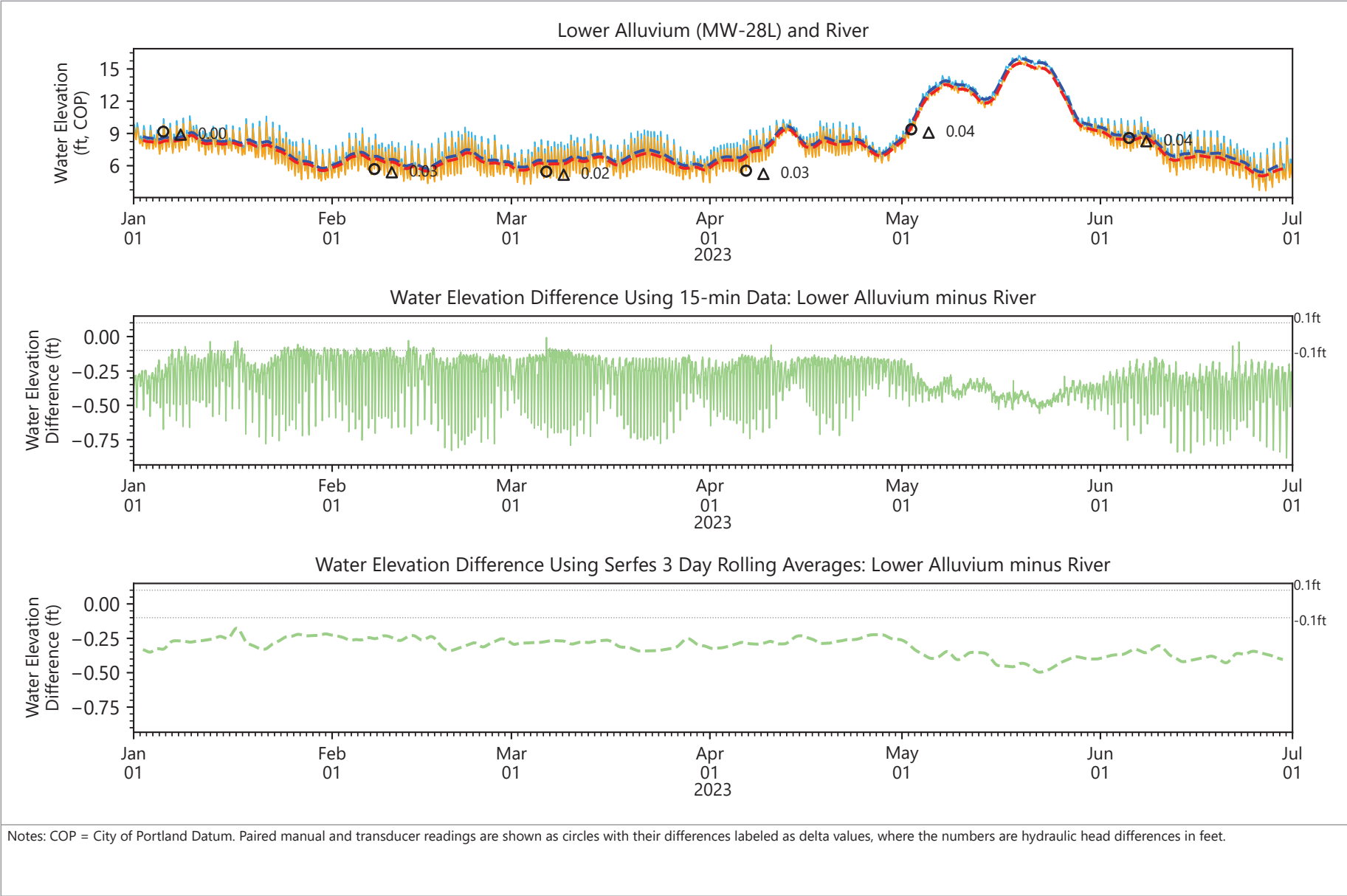


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- Lower Alluvium: 15-min Data
- - - Lower Alluvium: Serfes Averages
- River: 15-min Data
- - - River: Serfes Averages
- Water Elevation Difference: 15-min Data
- - - Water Elevation Difference: Serfes Averages
- ⋯⋯⋯ 0.1 ft Total Potential Uncertainty

Figure 4.48
Groundwater Elevation Differences
 NW Natural Gasco Site



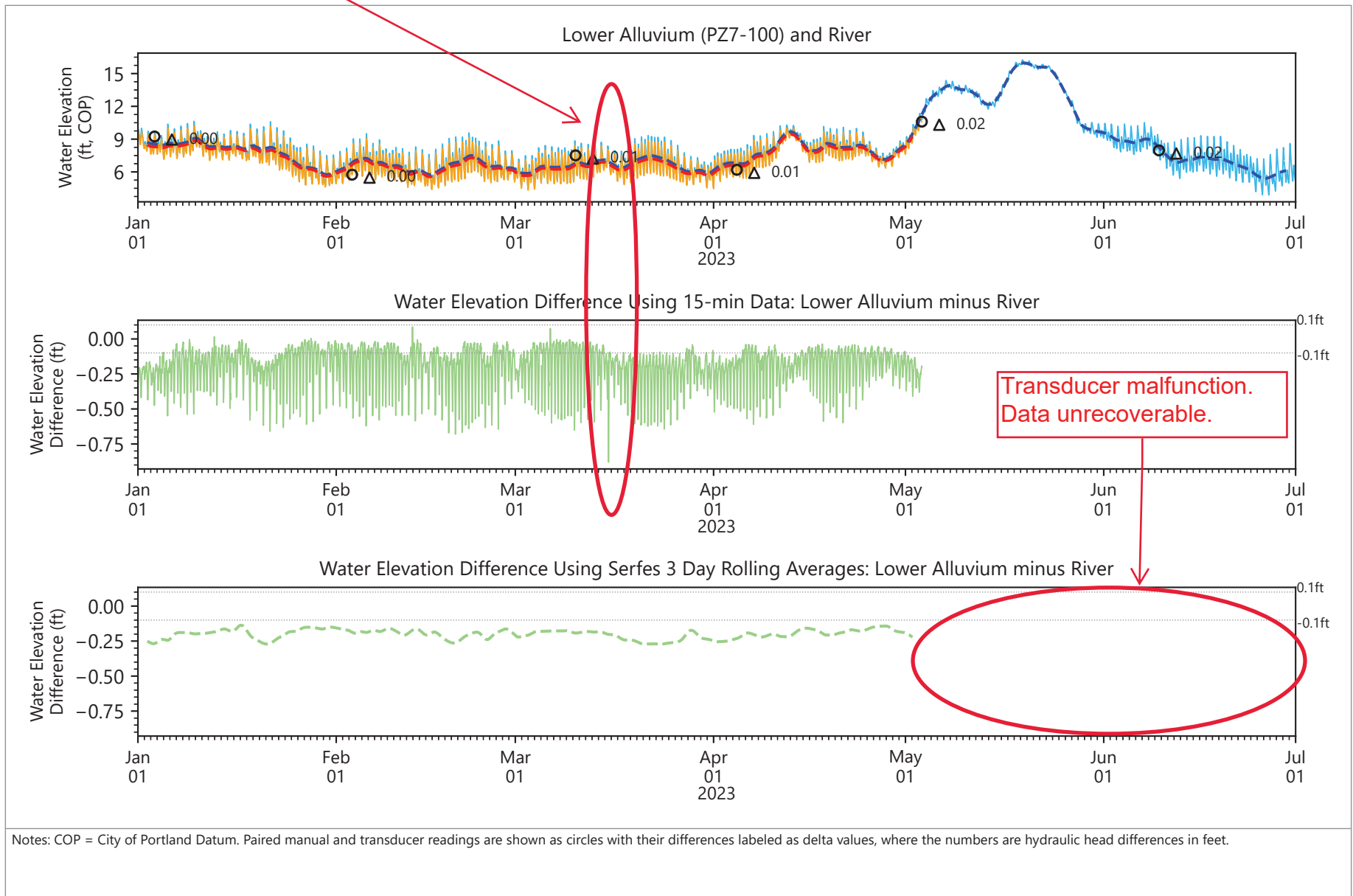
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- Lower Alluvium: 15-min Data
- - - Lower Alluvium: Serfes Averages
- River: 15-min Data
- - - River: Serfes Averages
- Water Elevation Difference: 15-min Data
- - - Water Elevation Difference: Serfes Averages
- ⋯ 0.1 ft Total Potential Uncertainty

Figure 4.49
Groundwater Elevation Differences
 NW Natural Gasco Site

1Q Groundwater Sampling

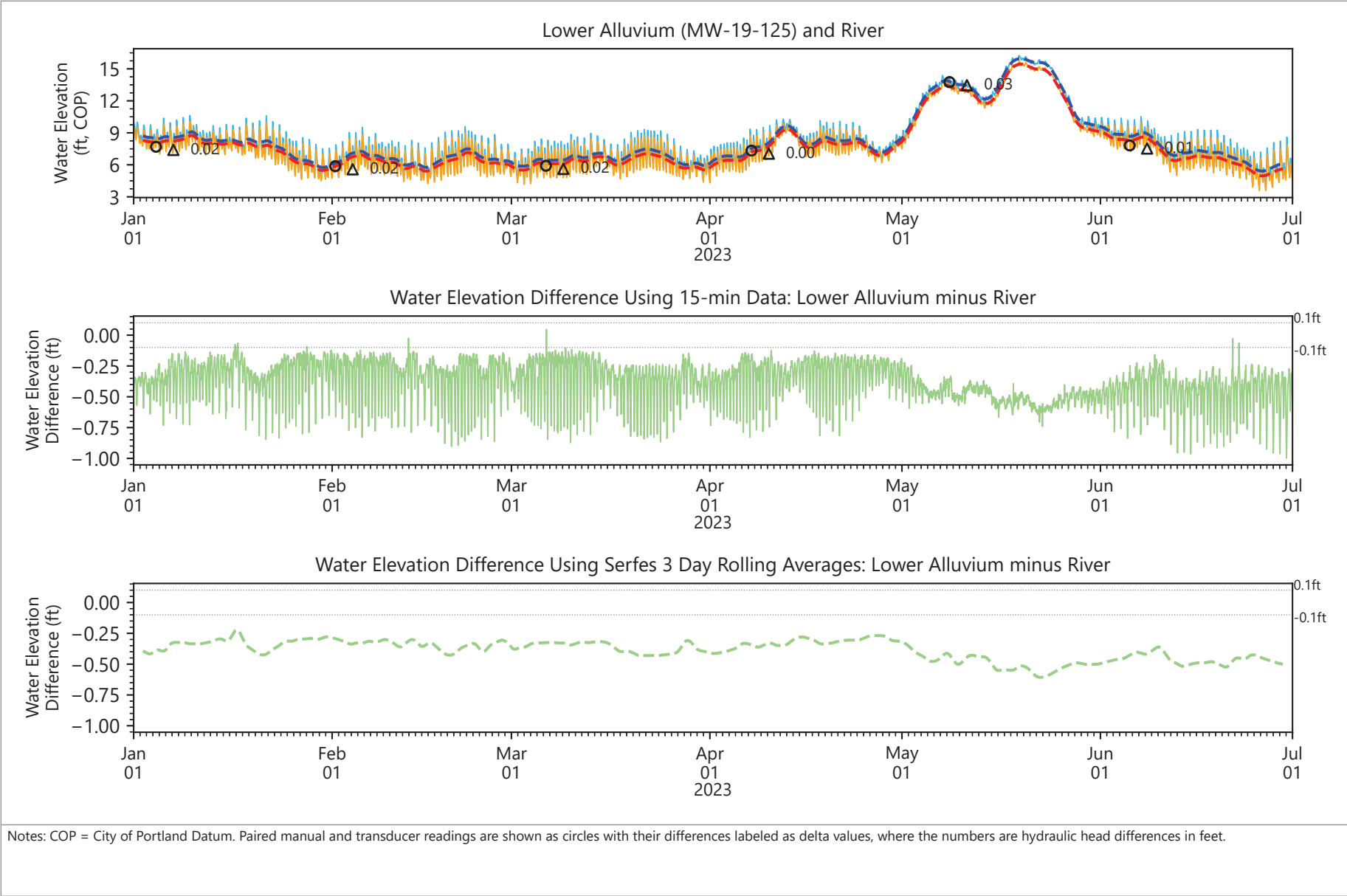


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- Lower Alluvium: 15-min Data
- Lower Alluvium: Serfes Averages
- River: 15-min Data
- River: Serfes Averages
- Water Elevation Difference: 15-min Data
- Water Elevation Difference: Serfes Averages
- 0.1 ft Total Potential Uncertainty

Figure 4.50
Groundwater Elevation Differences
 NW Natural Gasco Site

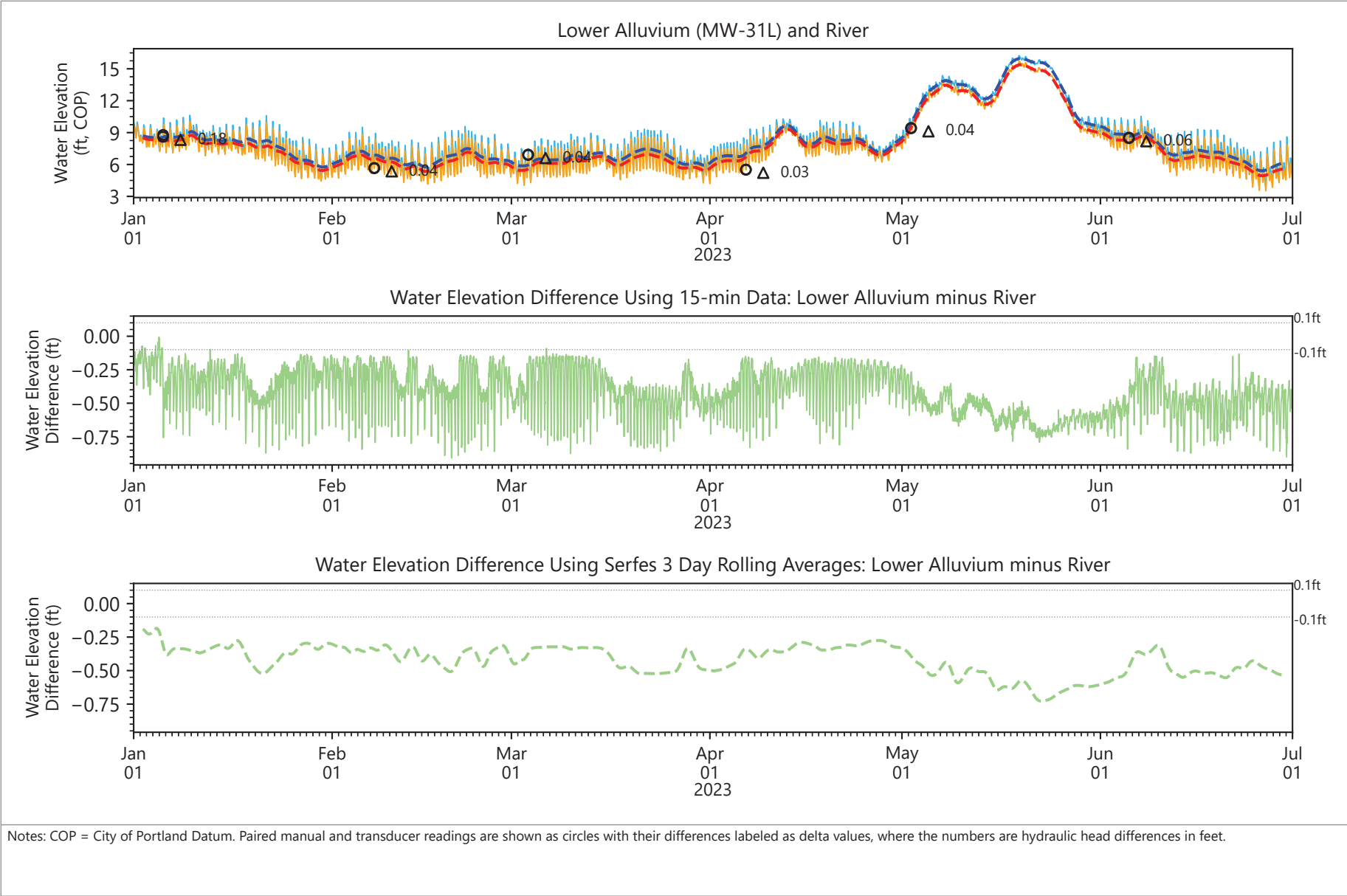


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- Lower Alluvium: 15-min Data
- - - Lower Alluvium: Serfes Averages
- River: 15-min Data
- - - River: Serfes Averages
- Water Elevation Difference: 15-min Data
- - - Water Elevation Difference: Serfes Averages
- ⋯⋯⋯ 0.1 ft Total Potential Uncertainty

Figure 4.51
Groundwater Elevation Differences
 NW Natural Gasco Site



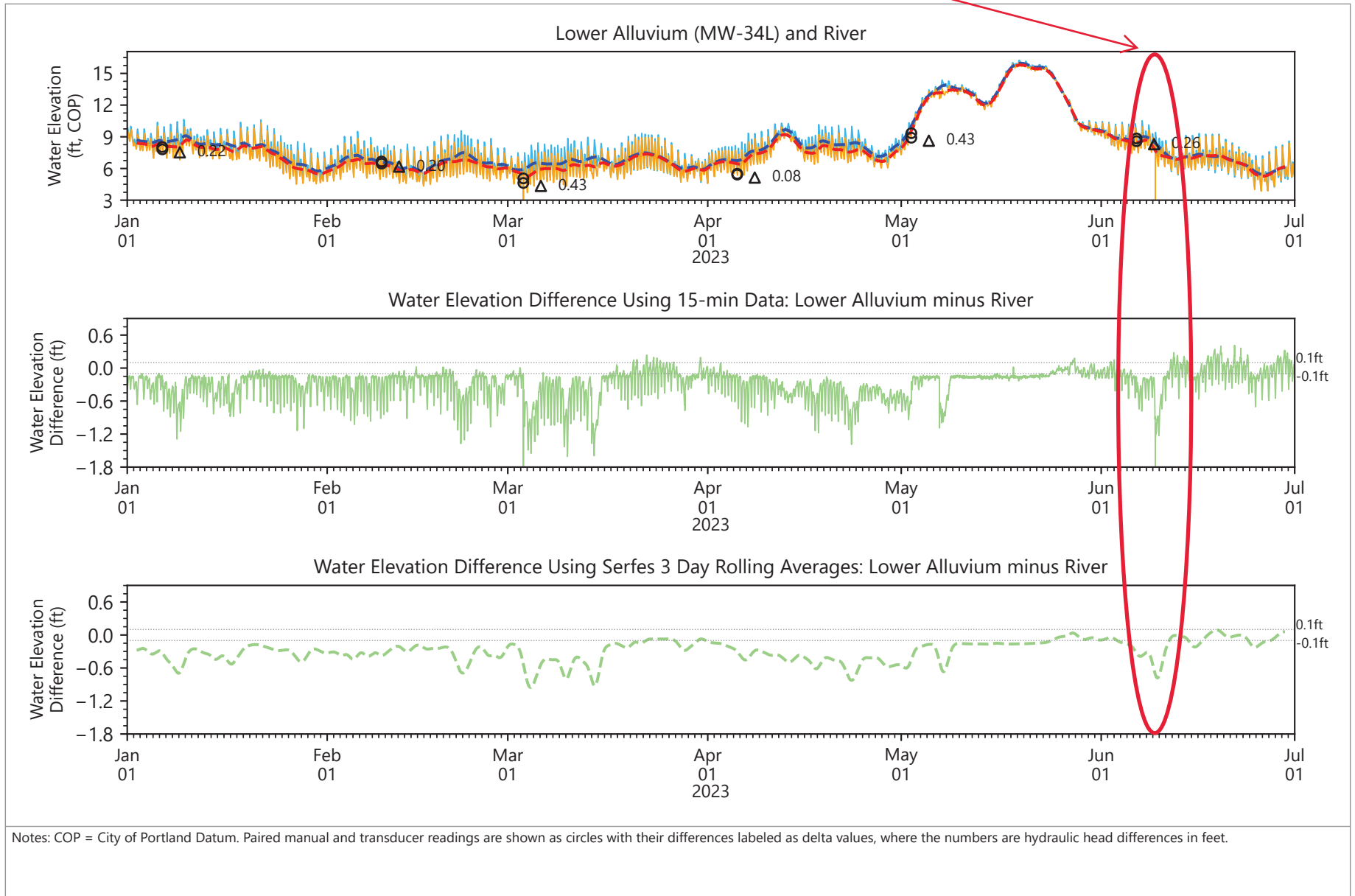
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- Lower Alluvium: 15-min Data
- - - Lower Alluvium: Serfes Averages
- River: 15-min Data
- - - River: Serfes Averages
- Water Elevation Difference: 15-min Data
- - - Water Elevation Difference: Serfes Averages
- ⋯⋯⋯ 0.1 ft Total Potential Uncertainty

Figure 4.52
Groundwater Elevation Differences
 NW Natural Gasco Site

Transducer Maintenance.



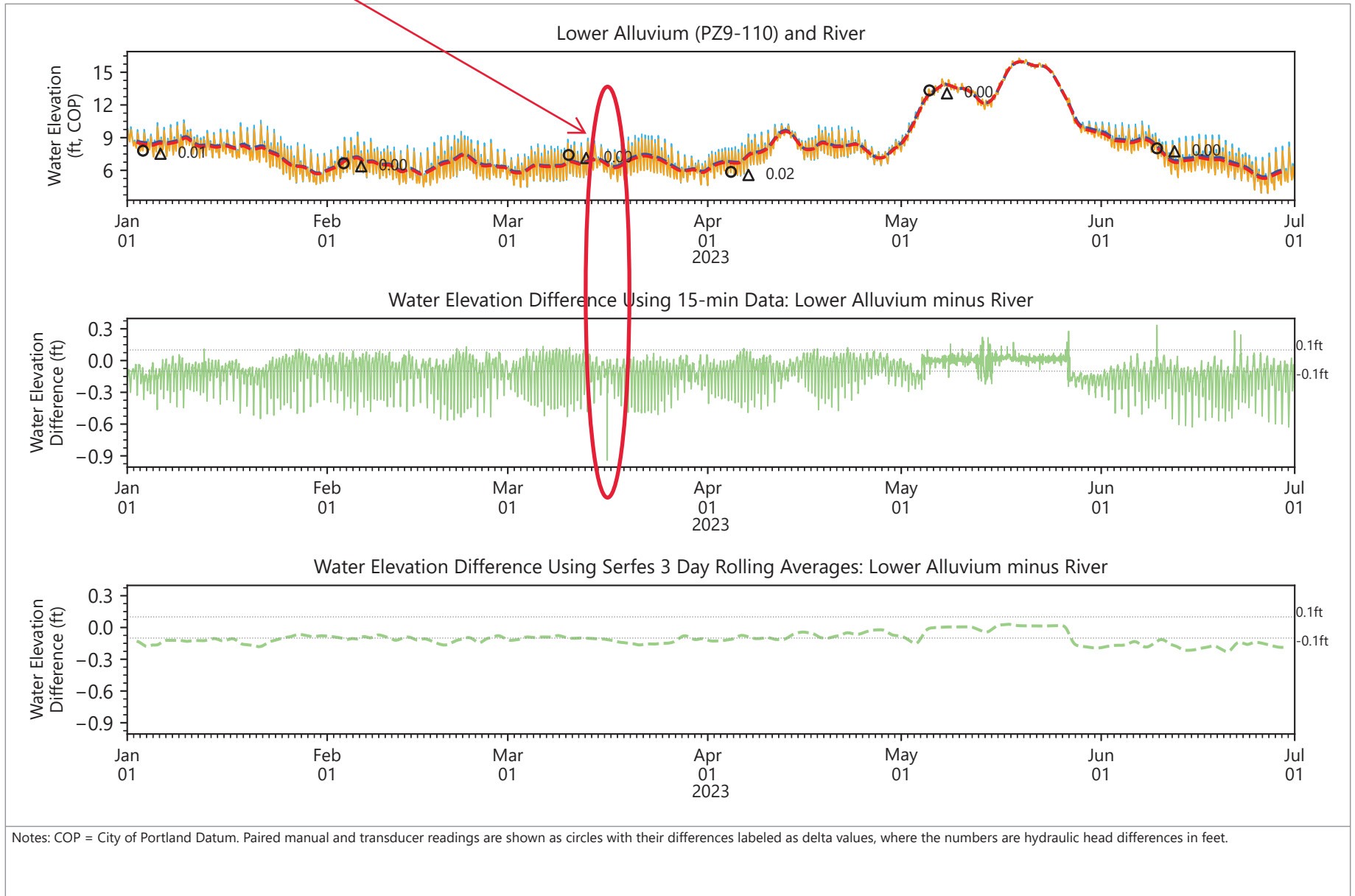
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- Lower Alluvium: 15-min Data
- Lower Alluvium: Serfes Averages
- River: 15-min Data
- River: Serfes Averages
- Water Elevation Difference: 15-min Data
- Water Elevation Difference: Serfes Averages
- 0.1 ft Total Potential Uncertainty

Figure 4.53
Groundwater Elevation Differences
NW Natural Gasco Site

1Q Groundwater Sampling

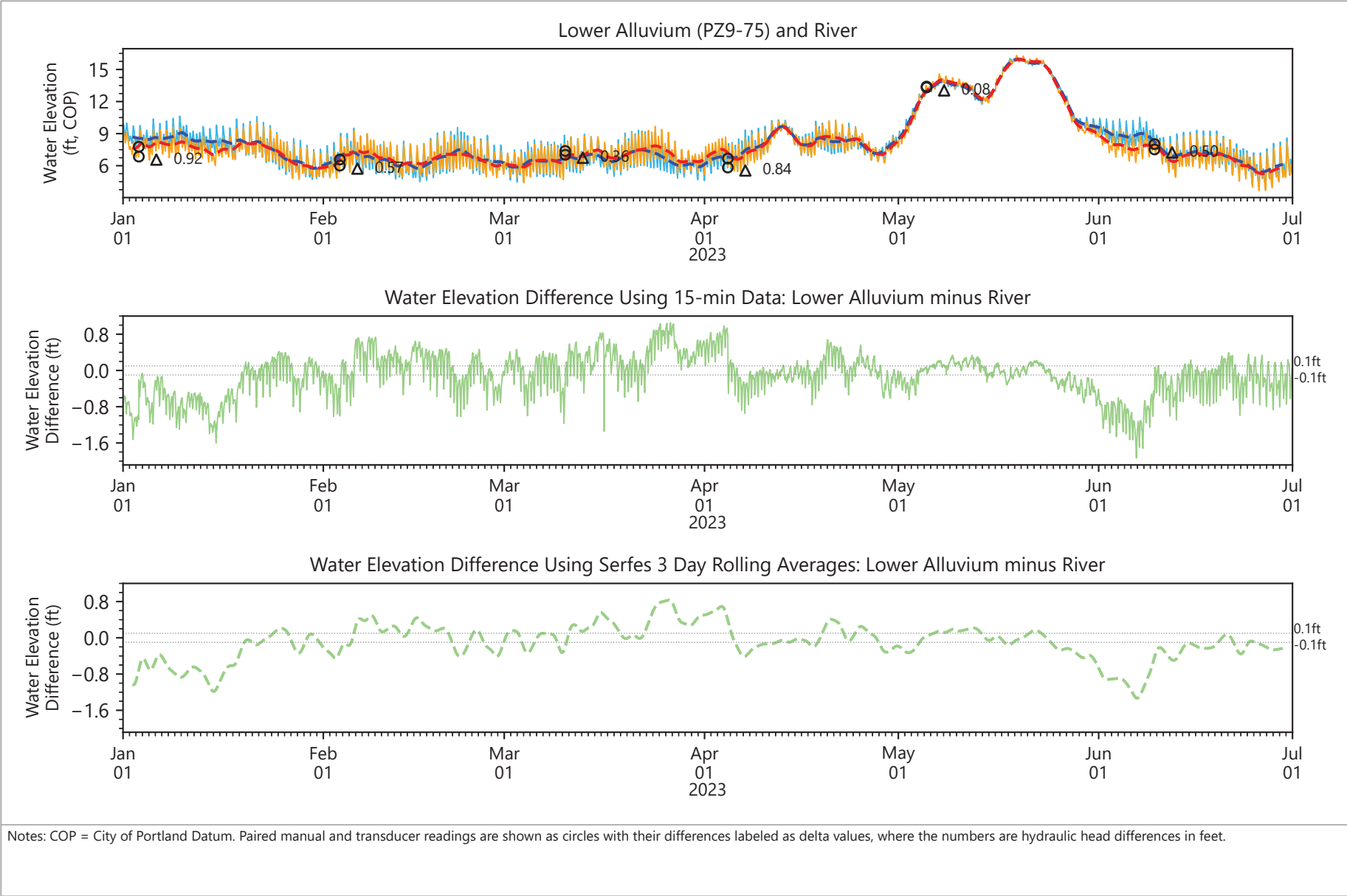


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- Lower Alluvium: 15-min Data
- - - Lower Alluvium: Serfes Averages
- River: 15-min Data
- - - River: Serfes Averages
- Water Elevation Difference: 15-min Data
- - - Water Elevation Difference: Serfes Averages
- 0.1 ft Total Potential Uncertainty

Figure 4.54
Groundwater Elevation Differences
 NW Natural Gasco Site

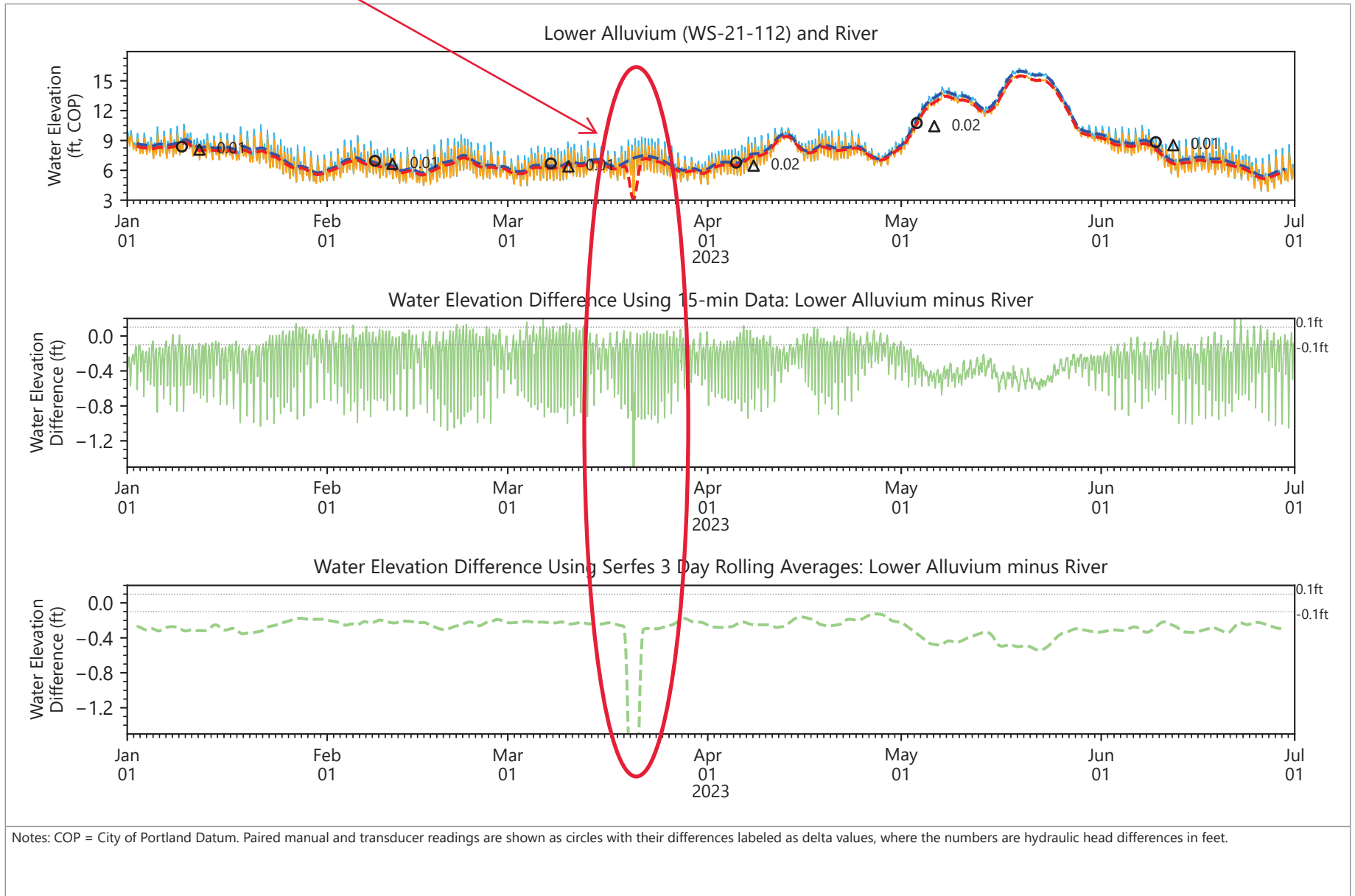


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- Lower Alluvium: 15-min Data
- - - Lower Alluvium: Serfes Averages
- River: 15-min Data
- - - River: Serfes Averages
- Water Elevation Difference: 15-min Data
- - - Water Elevation Difference: Serfes Averages
- ⋯ 0.1 ft Total Potential Uncertainty

Figure 4.55
Groundwater Elevation Differences
 NW Natural Gasco Site

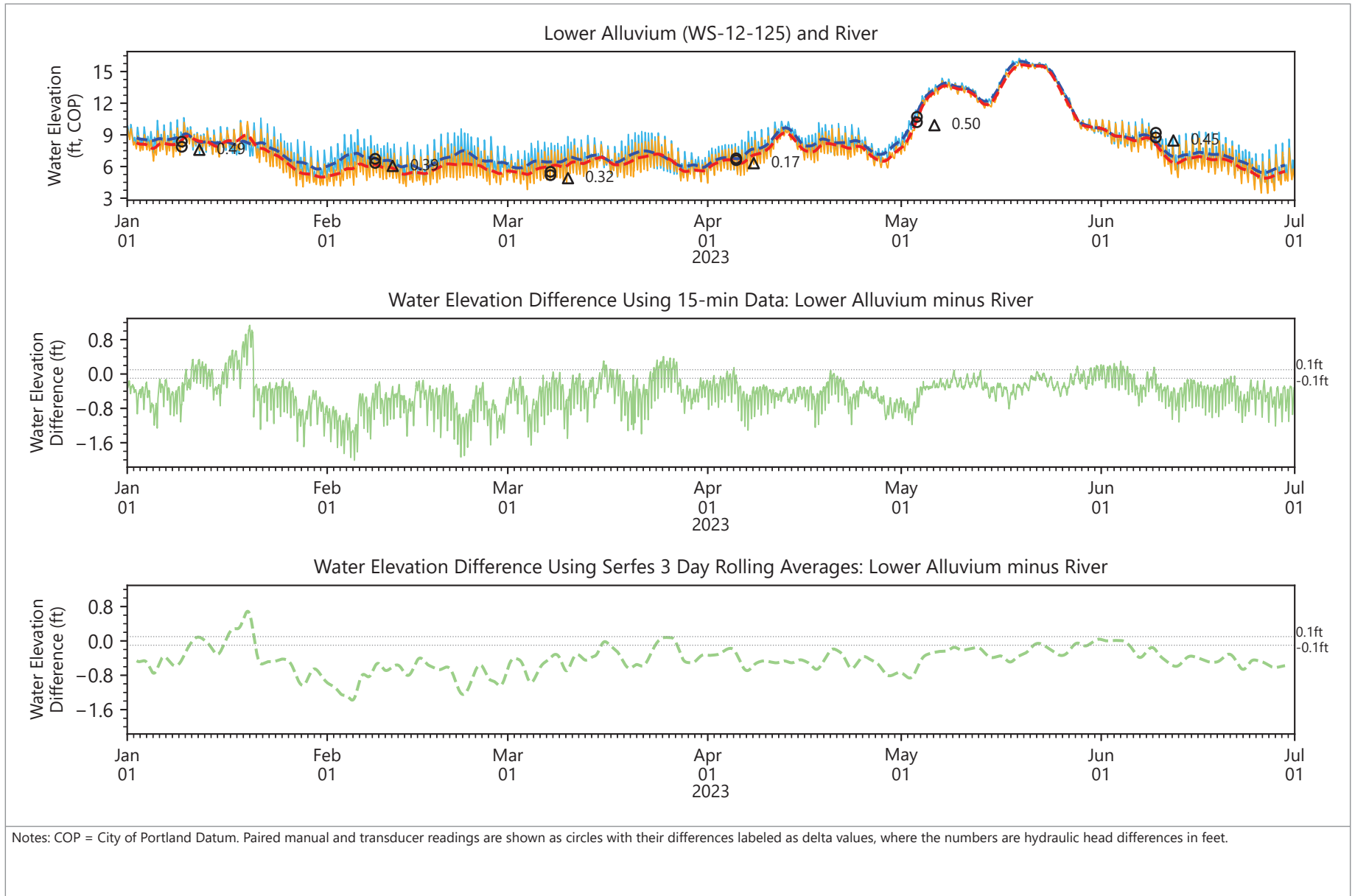


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- Lower Alluvium: 15-min Data
- - - Lower Alluvium: Serfes Averages
- River: 15-min Data
- - - River: Serfes Averages
- Water Elevation Difference: 15-min Data
- - - Water Elevation Difference: Serfes Averages
- ⋯ 0.1 ft Total Potential Uncertainty

Figure 4.56
Groundwater Elevation Differences
 NW Natural Gasco Site

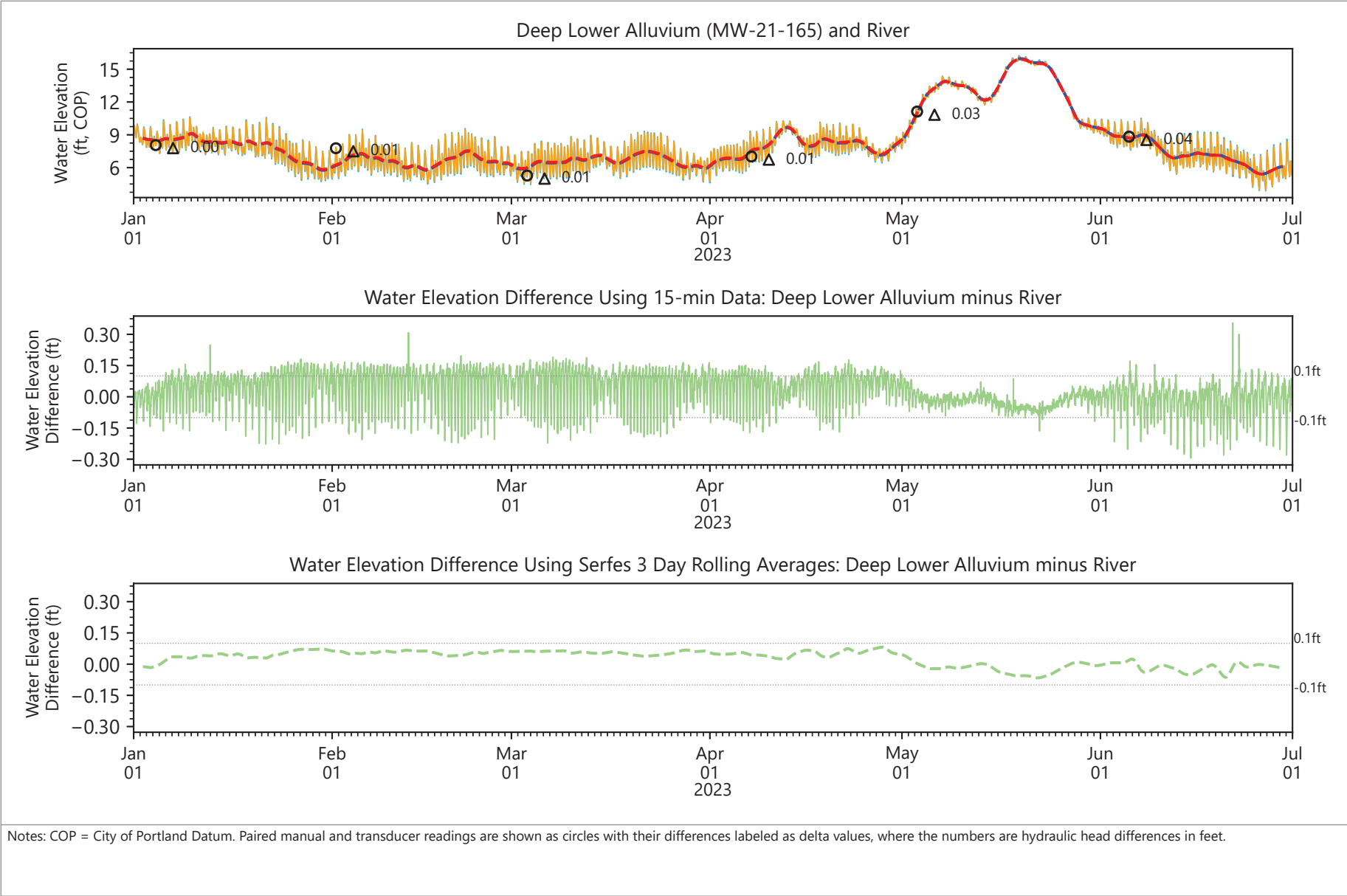


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 \\fuji\Anchor\Data Management\Users\Albert\Projects\Gasco\Python\elelevation_time_series_per6months_EQUIS.py



- Lower Alluvium: 15-min Data
- - - Lower Alluvium: Serfes Averages
- River: 15-min Data
- - - River: Serfes Averages
- Water Elevation Difference: 15-min Data
- - - Water Elevation Difference: Serfes Averages
- ⋯ 0.1 ft Total Potential Uncertainty

Figure 4.57
Groundwater Elevation Differences
 NW Natural Gasco Site



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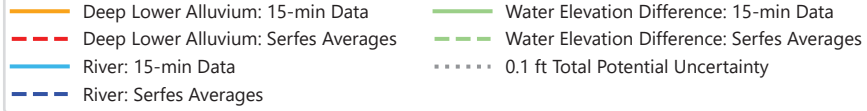
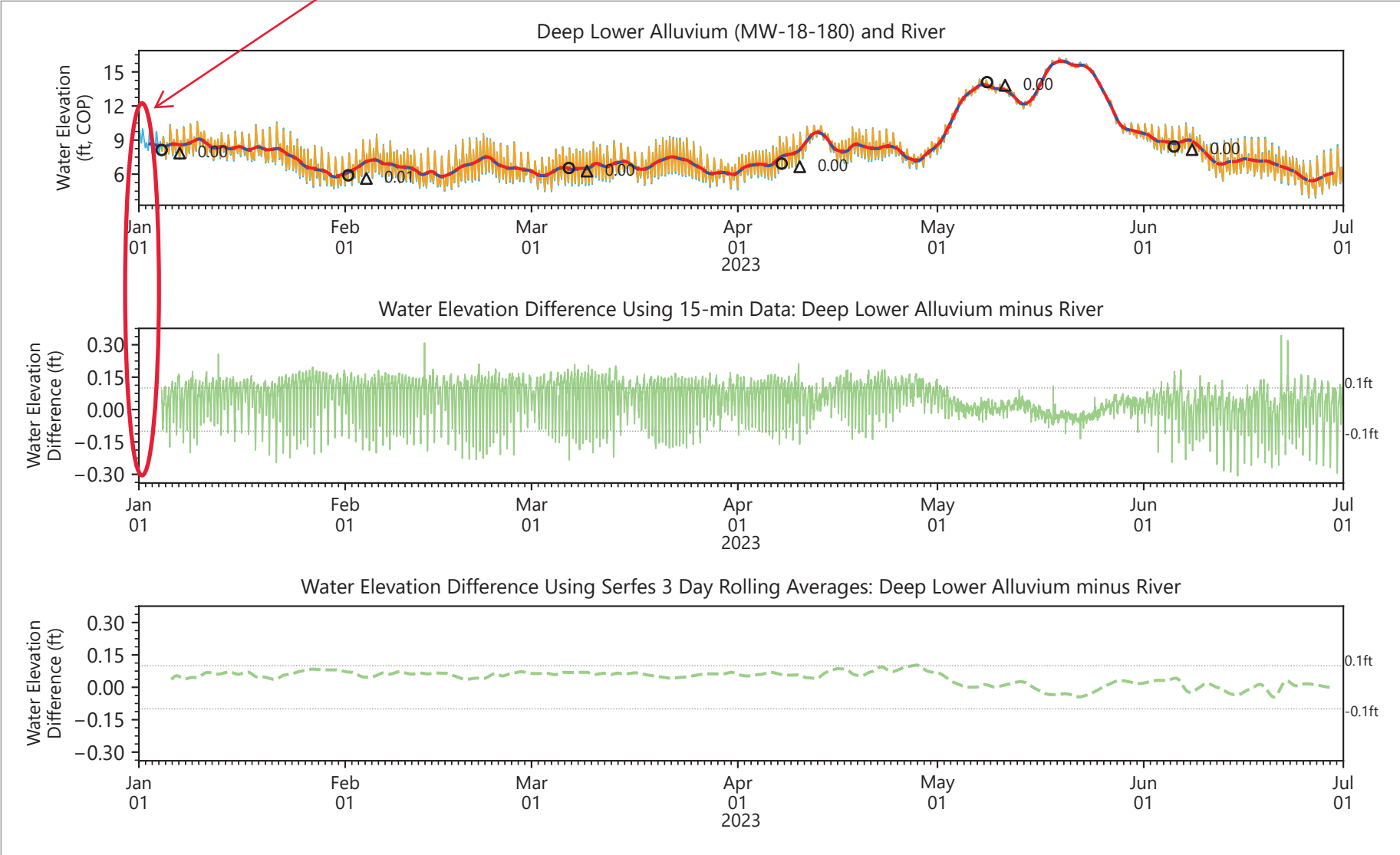


Figure 4.58
Groundwater Elevation Differences
 NW Natural Gasco Site

Transducer malfunction.
Data unrecoverable.



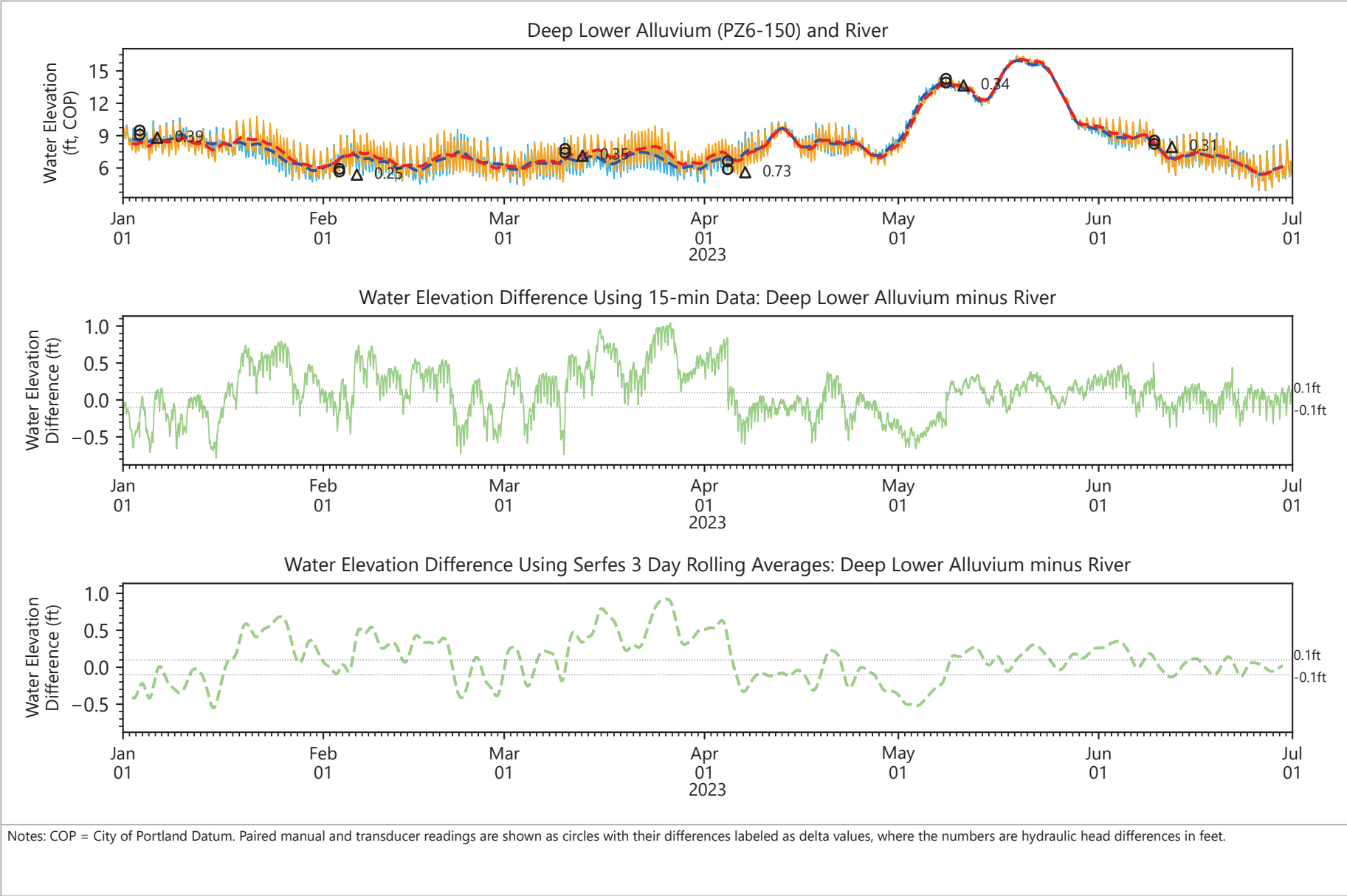
Notes: COP = City of Portland Datum. Paired manual and transducer readings are shown as circles with their differences labeled as delta values, where the numbers are hydraulic head differences in feet.

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- Deep Lower Alluvium: 15-min Data
- - - Deep Lower Alluvium: Serfes Averages
- River: 15-min Data
- - - River: Serfes Averages
- Water Elevation Difference: 15-min Data
- - - Water Elevation Difference: Serfes Averages
- ⋯ 0.1 ft Total Potential Uncertainty

Figure 4.59
Groundwater Elevation Differences
 NW Natural Gasco Site

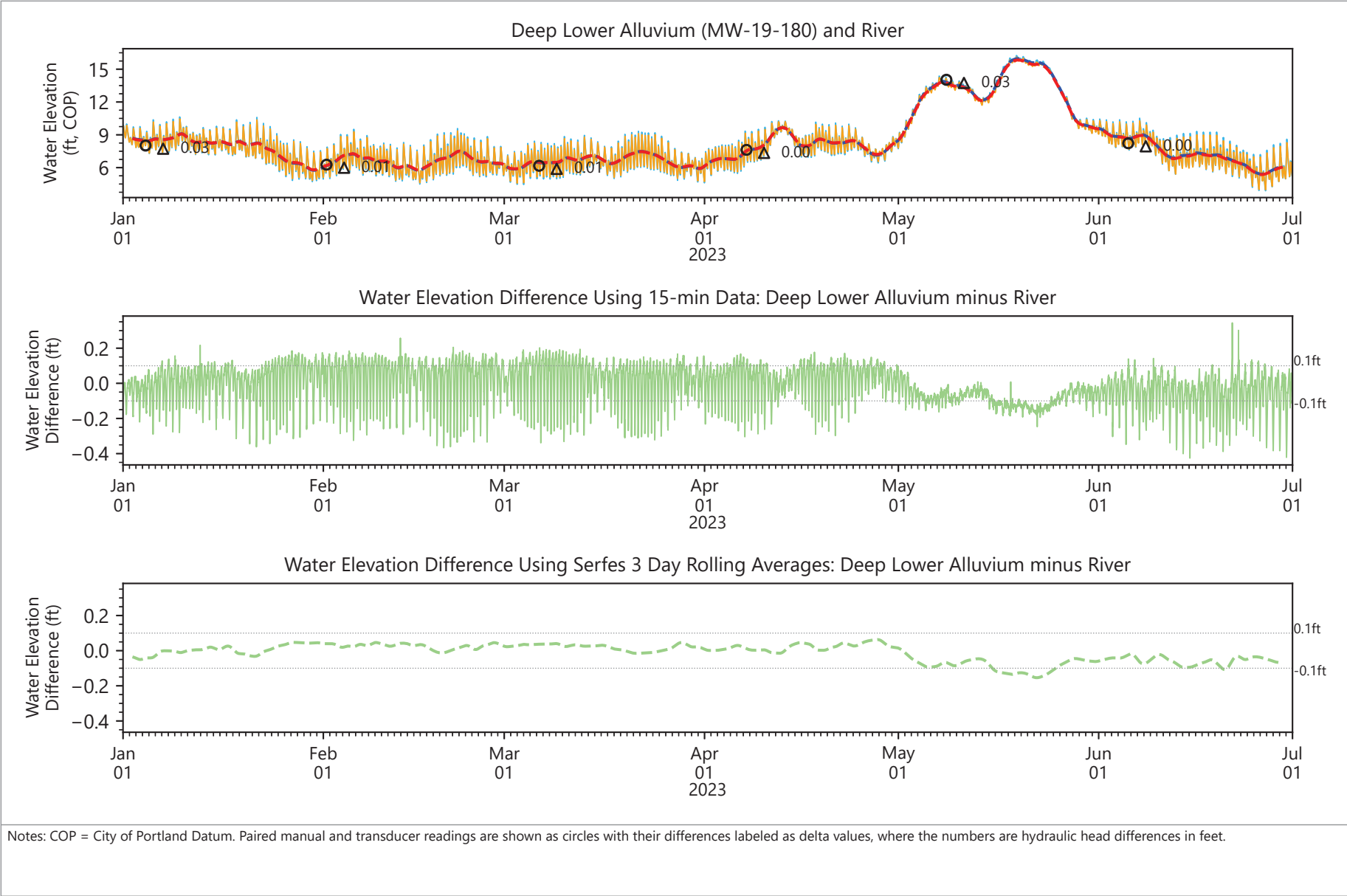


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- Deep Lower Alluvium: 15-min Data
- - - Deep Lower Alluvium: Serfes Averages
- River: 15-min Data
- - - River: Serfes Averages
- Water Elevation Difference: 15-min Data
- - - Water Elevation Difference: Serfes Averages
- 0.1 ft Total Potential Uncertainty

Figure 4.60
Groundwater Elevation Differences
 NW Natural Gasco Site



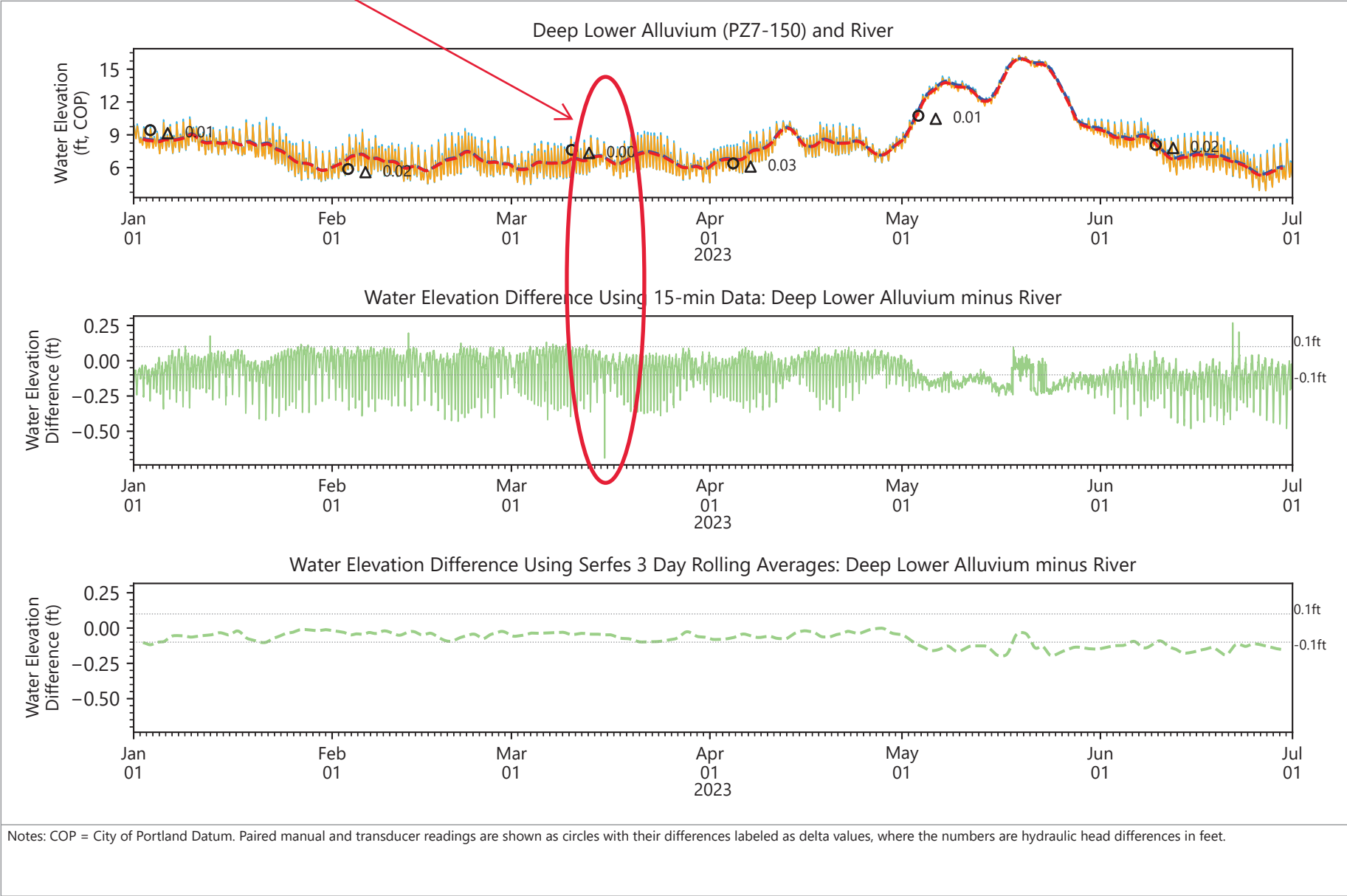
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- Deep Lower Alluvium: 15-min Data
- - - Deep Lower Alluvium: Serfes Averages
- River: 15-min Data
- - - River: Serfes Averages
- Water Elevation Difference: 15-min Data
- - - Water Elevation Difference: Serfes Averages
- ⋯⋯⋯ 0.1 ft Total Potential Uncertainty

Figure 4.61
Groundwater Elevation Differences
 NW Natural Gasco Site

1Q Groundwater Sampling

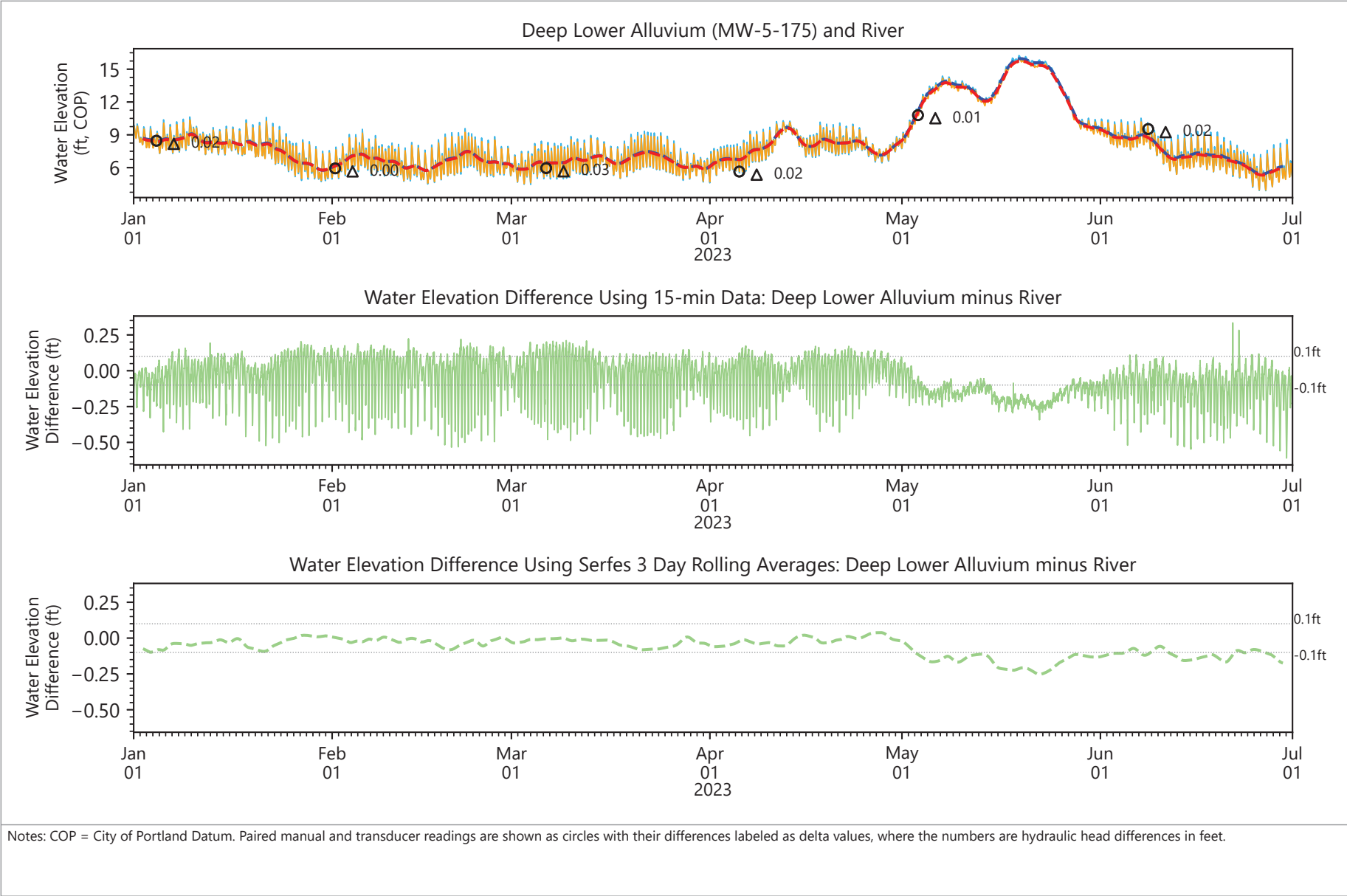


Publish Date: 08/09/2023 15:10 PM | User: SEA-AMEU
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- Deep Lower Alluvium: 15-min Data
- Deep Lower Alluvium: Serfes Averages
- River: 15-min Data
- River: Serfes Averages
- Water Elevation Difference: 15-min Data
- Water Elevation Difference: Serfes Averages
- 0.1 ft Total Potential Uncertainty

Figure 4.62
Groundwater Elevation Differences
 NW Natural Gasco Site



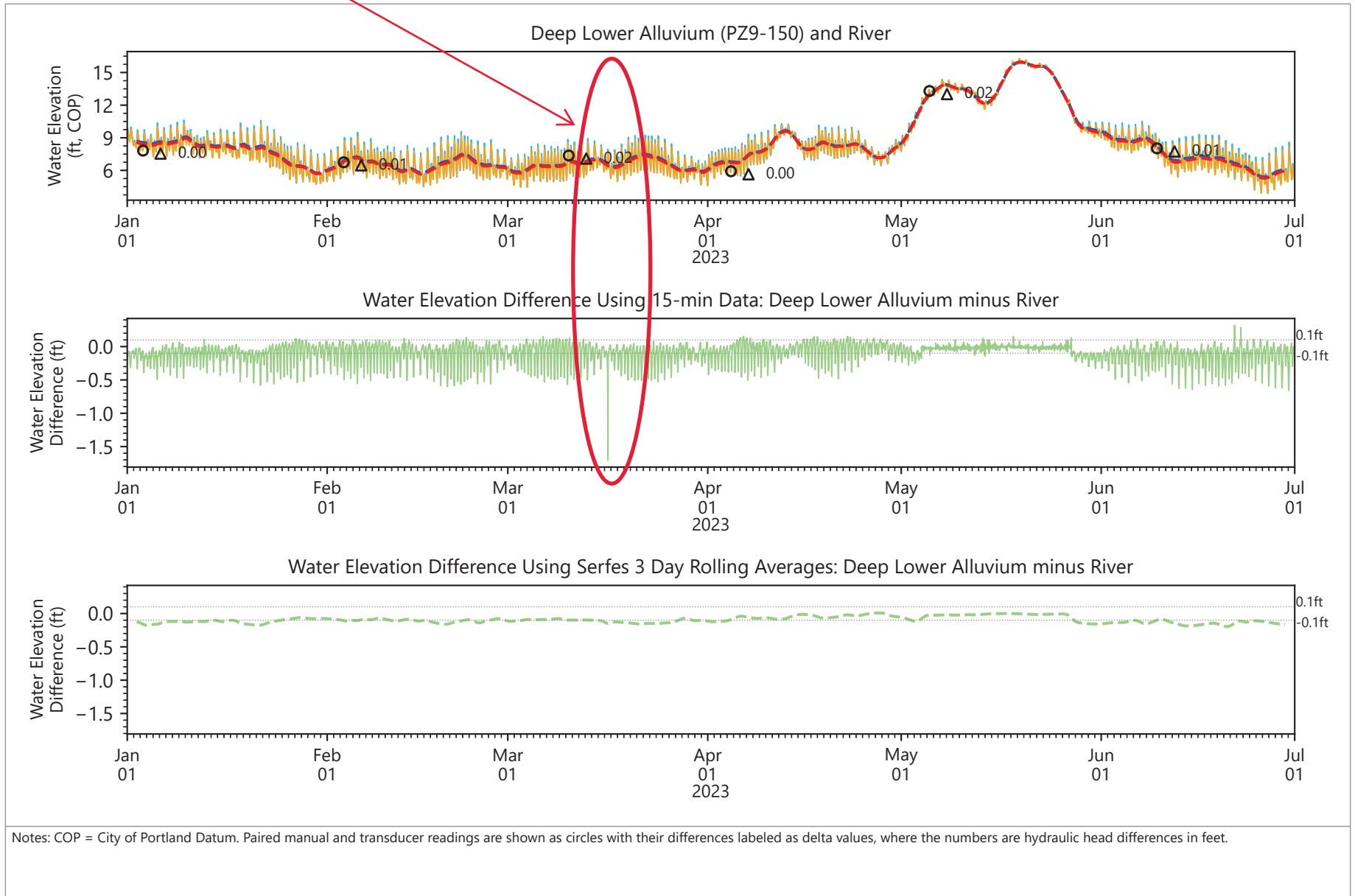
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 \\fuji\Anchor\Data Management\Users\Albert\Projects\Gasco\Python\elelevation_time_series_per6months_EQUIS.py



- Deep Lower Alluvium: 15-min Data
- - - Deep Lower Alluvium: Serfes Averages
- River: 15-min Data
- - - River: Serfes Averages
- Water Elevation Difference: 15-min Data
- - - Water Elevation Difference: Serfes Averages
- ⋯⋯⋯ 0.1 ft Total Potential Uncertainty

Figure 4.63
Groundwater Elevation Differences
 NW Natural Gasco Site

1Q Groundwater Sampling

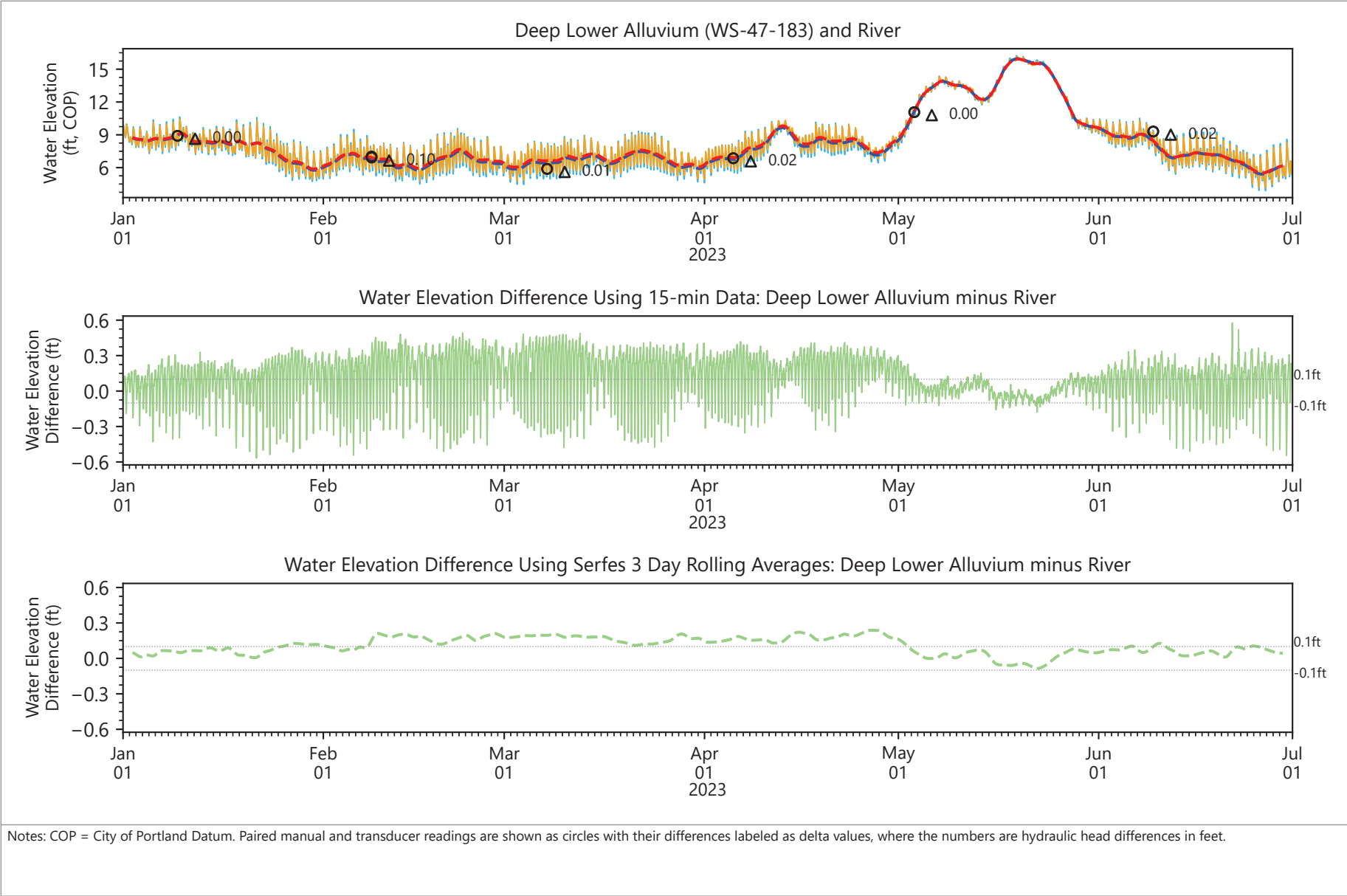


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- Deep Lower Alluvium: 15-min Data
- Deep Lower Alluvium: Serfes Averages
- River: 15-min Data
- River: Serfes Averages
- Water Elevation Difference: 15-min Data
- Water Elevation Difference: Serfes Averages
- 0.1 ft Total Potential Uncertainty

Figure 4.64
Groundwater Elevation Differences
 NW Natural Gasco Site



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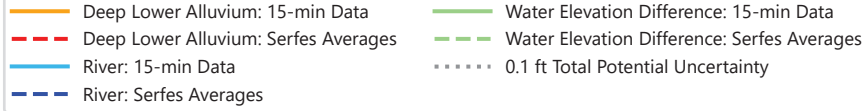
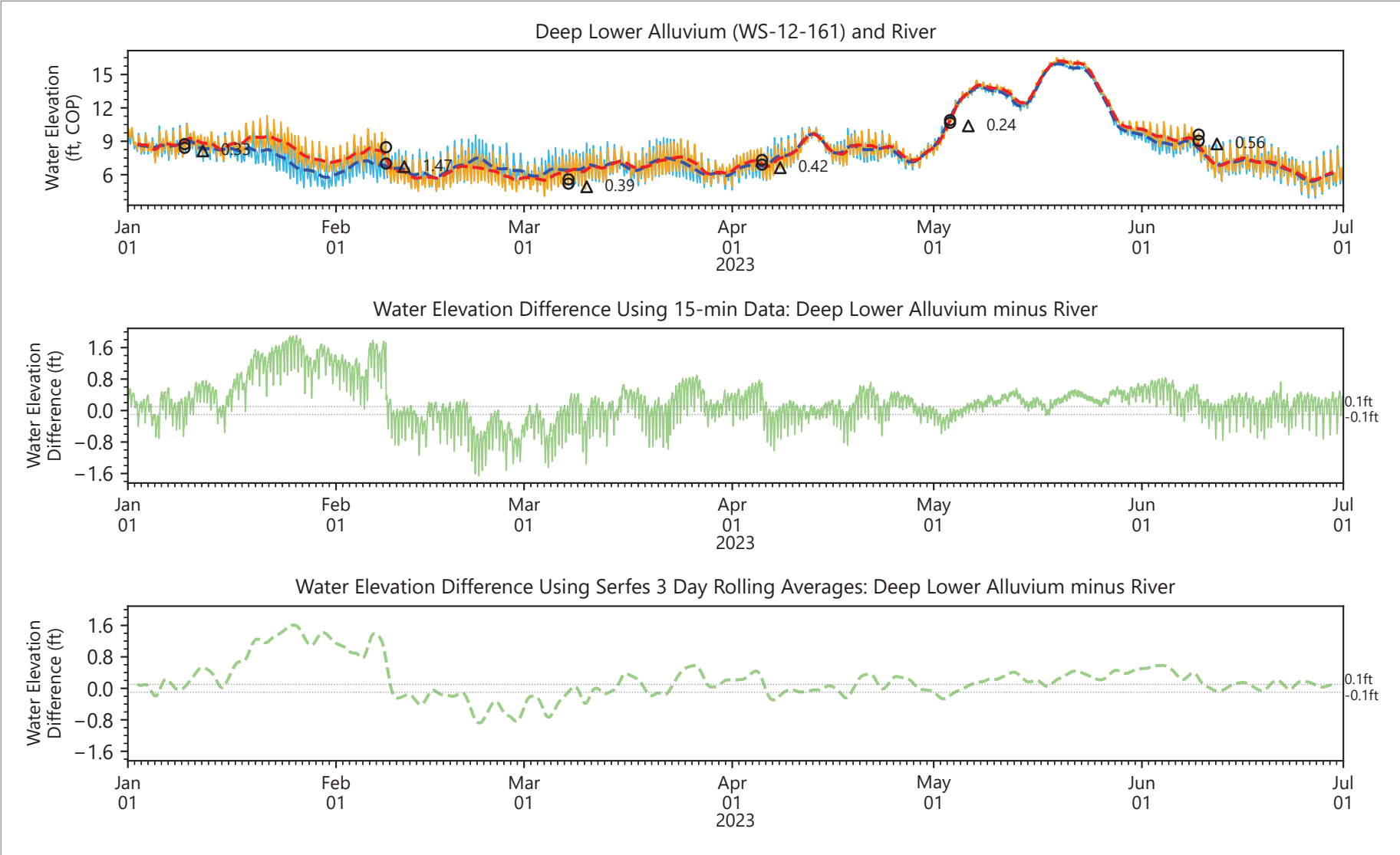


Figure 4.65
Groundwater Elevation Differences
 NW Natural Gasco Site



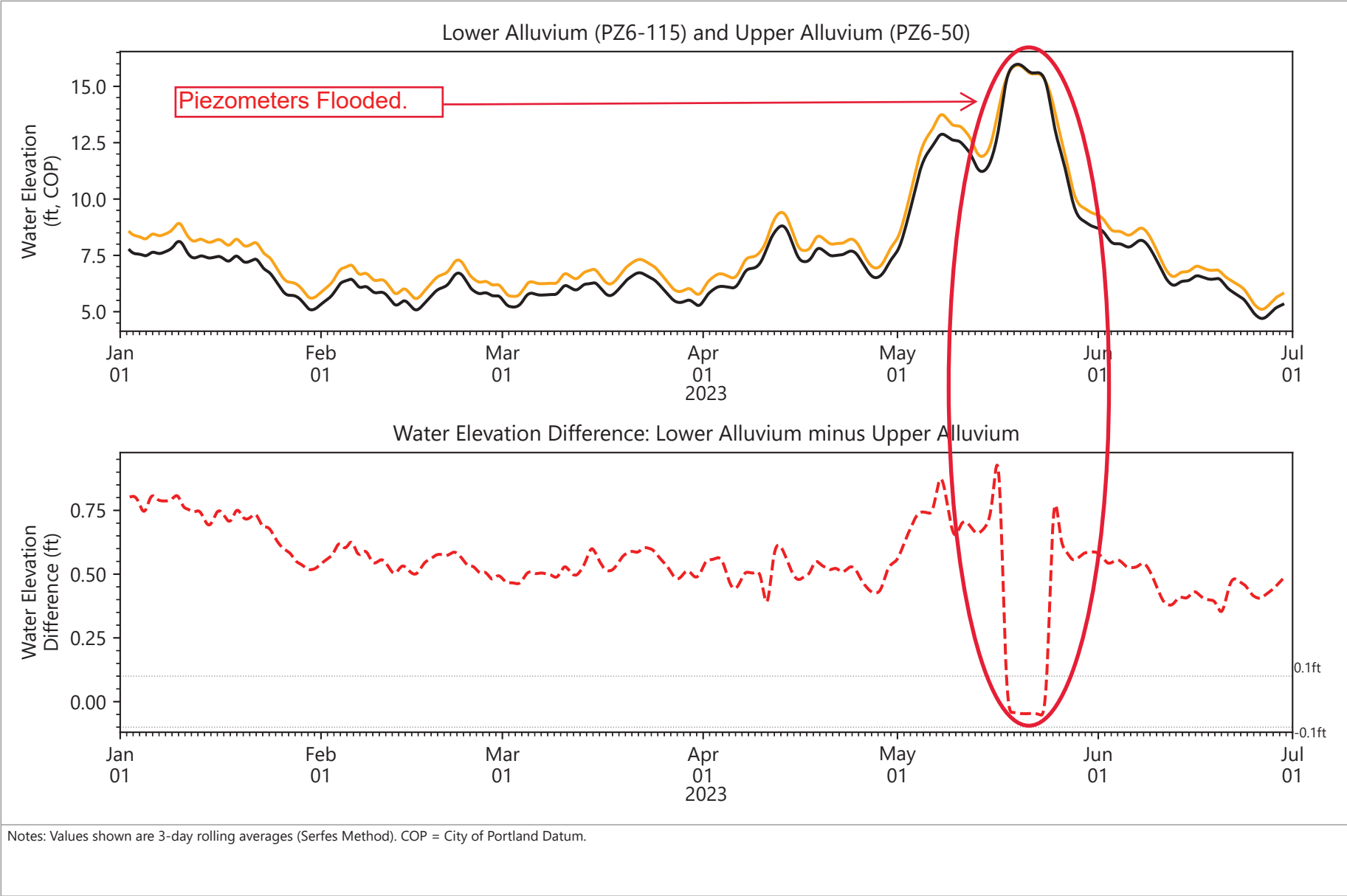
Notes: COP = City of Portland Datum. Paired manual and transducer readings are shown as circles with their differences labeled as delta values, where the numbers are hydraulic head differences in feet.

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 \\fuji\Anchor\Data Management\Users\Albert\Projects\Gasco\Python\elelevation_time_series_per6months_EQUIS.py



- Deep Lower Alluvium: 15-min Data
- - - Deep Lower Alluvium: Serfes Averages
- River: 15-min Data
- - - River: Serfes Averages
- Water Elevation Difference: 15-min Data
- - - Water Elevation Difference: Serfes Averages
- ⋯⋯⋯ 0.1 ft Total Potential Uncertainty

Figure 4.66
Groundwater Elevation Differences
 NW Natural Gasco Site



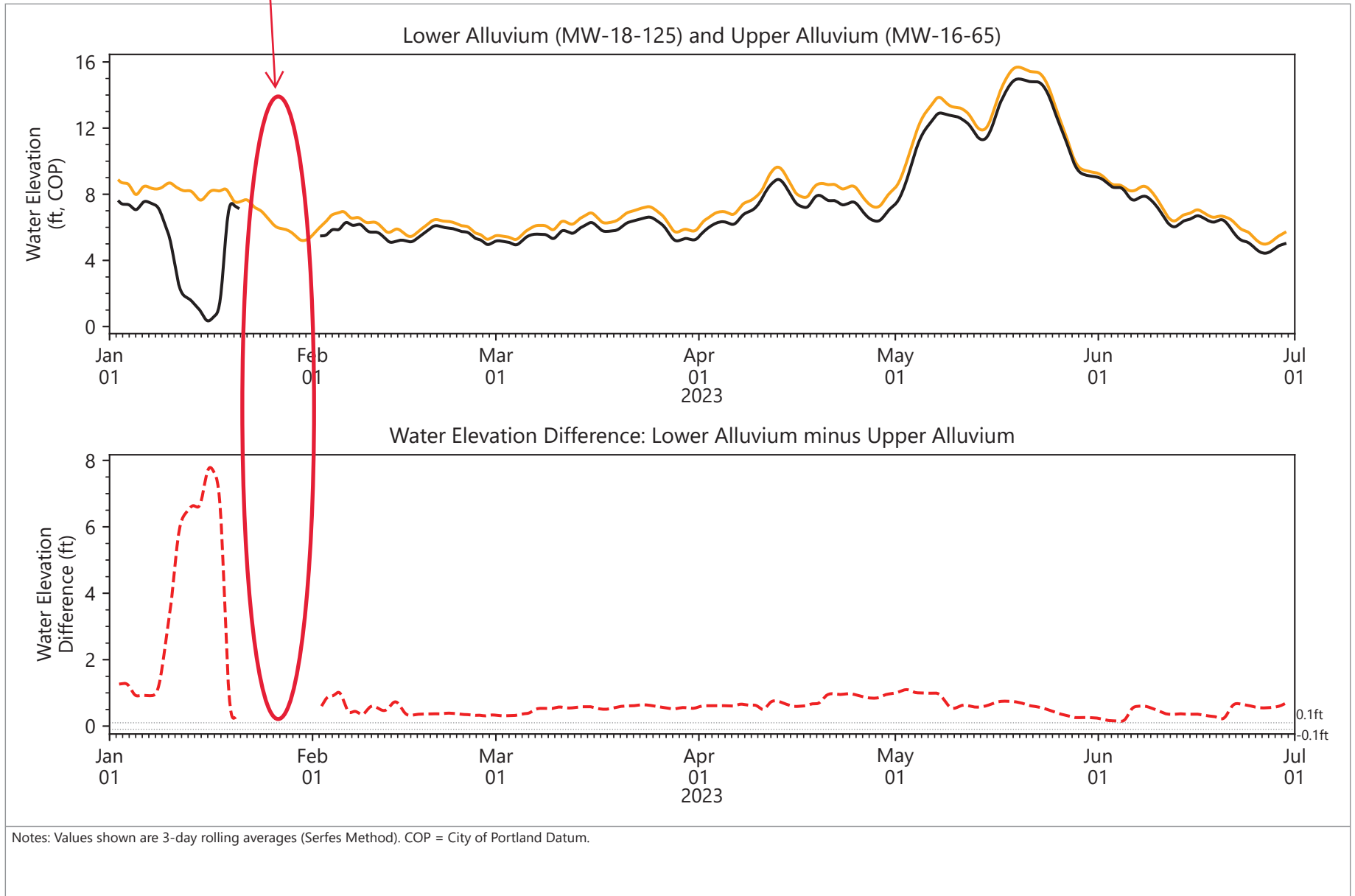
Publish Date: 08/08/2023 15:08 PM | User: SEA-AMEU
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- Lower Alluvium
- Upper Alluvium
- - - Water Elevation Difference
- 0.1 ft Total Potential Uncertainty

Figure 5.1
Groundwater Elevation Differences
 NW Natural Gasco Site

MW-16-65 Transducer malfunction. Data unrecoverable.

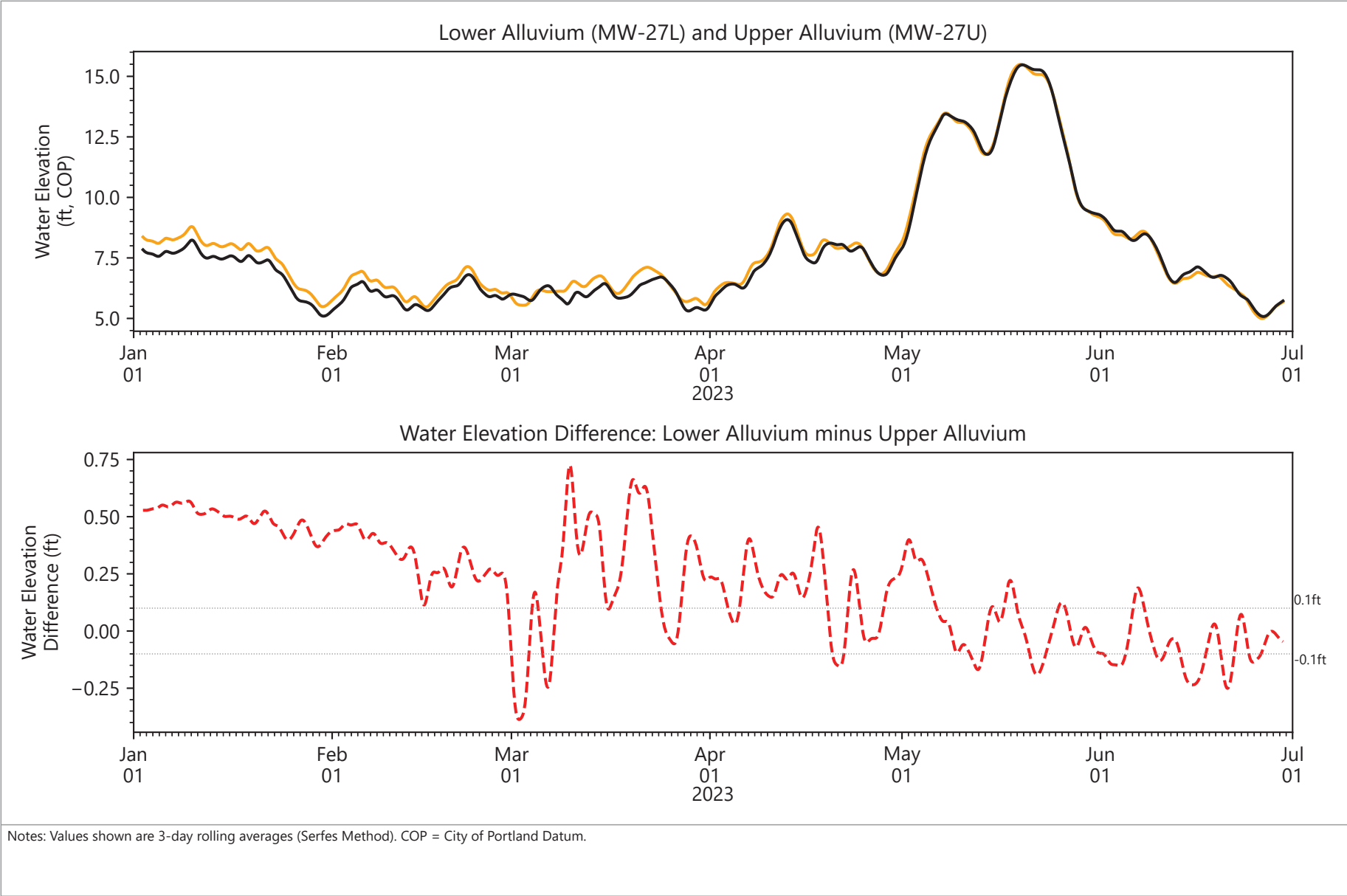


Publish Date: 08/08/2023 15:08 PM | User: SEA-AMEU
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- Lower Alluvium
- Upper Alluvium
- Water Elevation Difference
- 0.1 ft Total Potential Uncertainty

Figure 5.2
Groundwater Elevation Differences
NW Natural Gasco Site

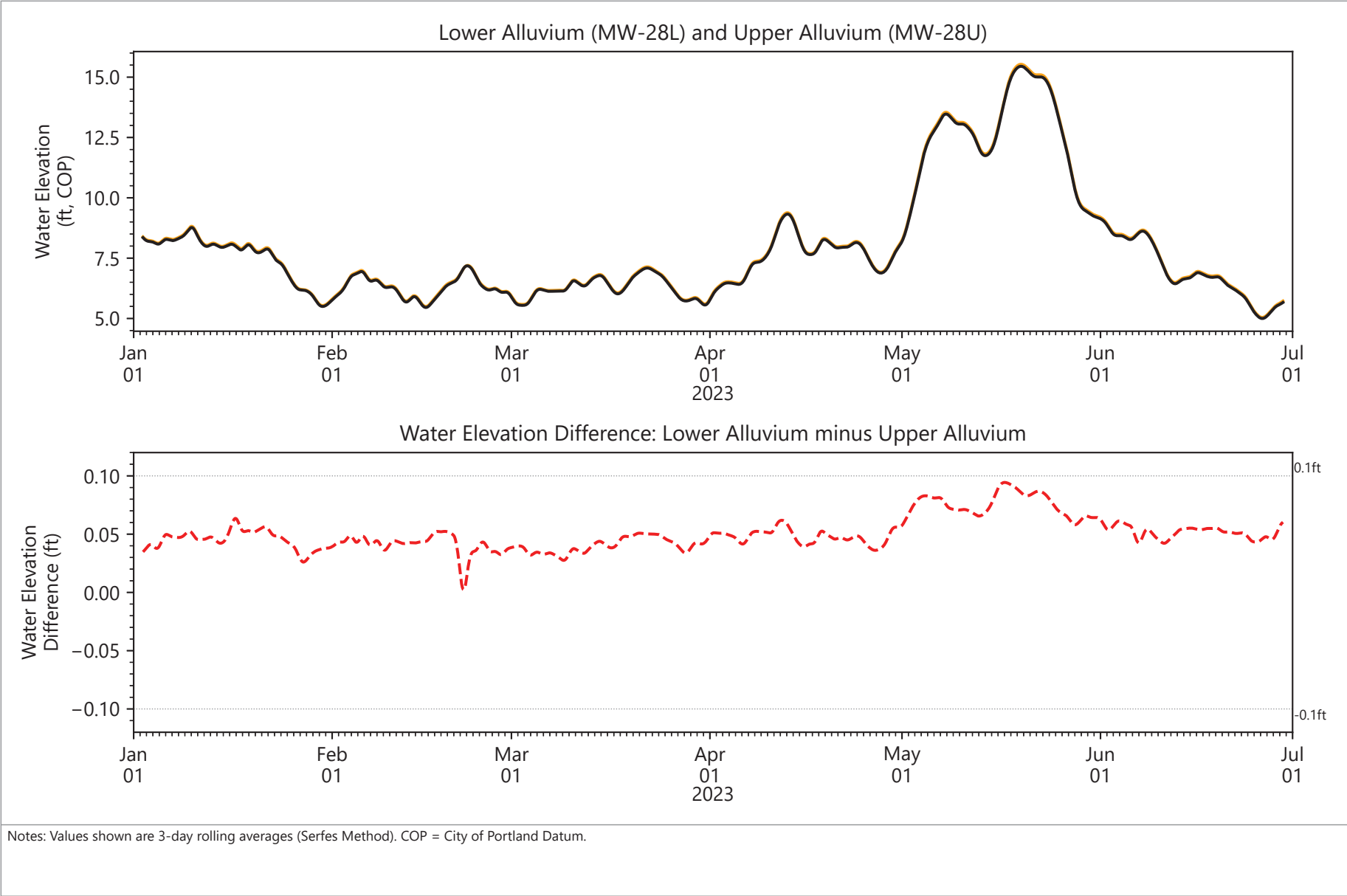


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- Lower Alluvium
- Upper Alluvium
- - - Water Elevation Difference
- 0.1 ft Total Potential Uncertainty

Figure 5.3
Groundwater Elevation Differences
 NW Natural Gasco Site

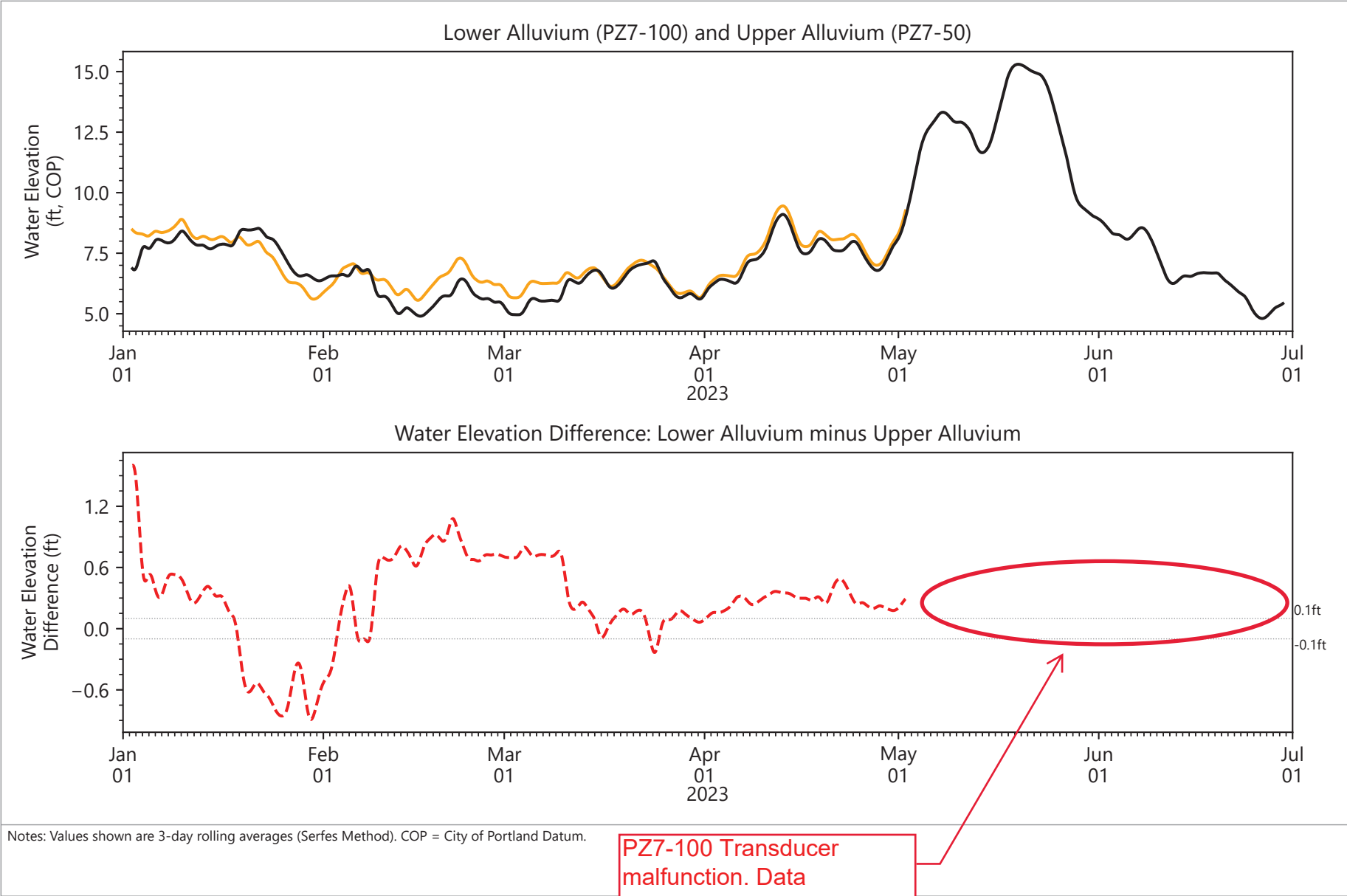


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 \\fuji\Anchor\Data Management\Users\Albert\Projects\Gasco\Python\elelevation_time_series_per6months_EQUIS.py



- Lower Alluvium
- Upper Alluvium
- - - Water Elevation Difference
- 0.1 ft Total Potential Uncertainty

Figure 5.4
Groundwater Elevation Differences
 NW Natural Gasco Site

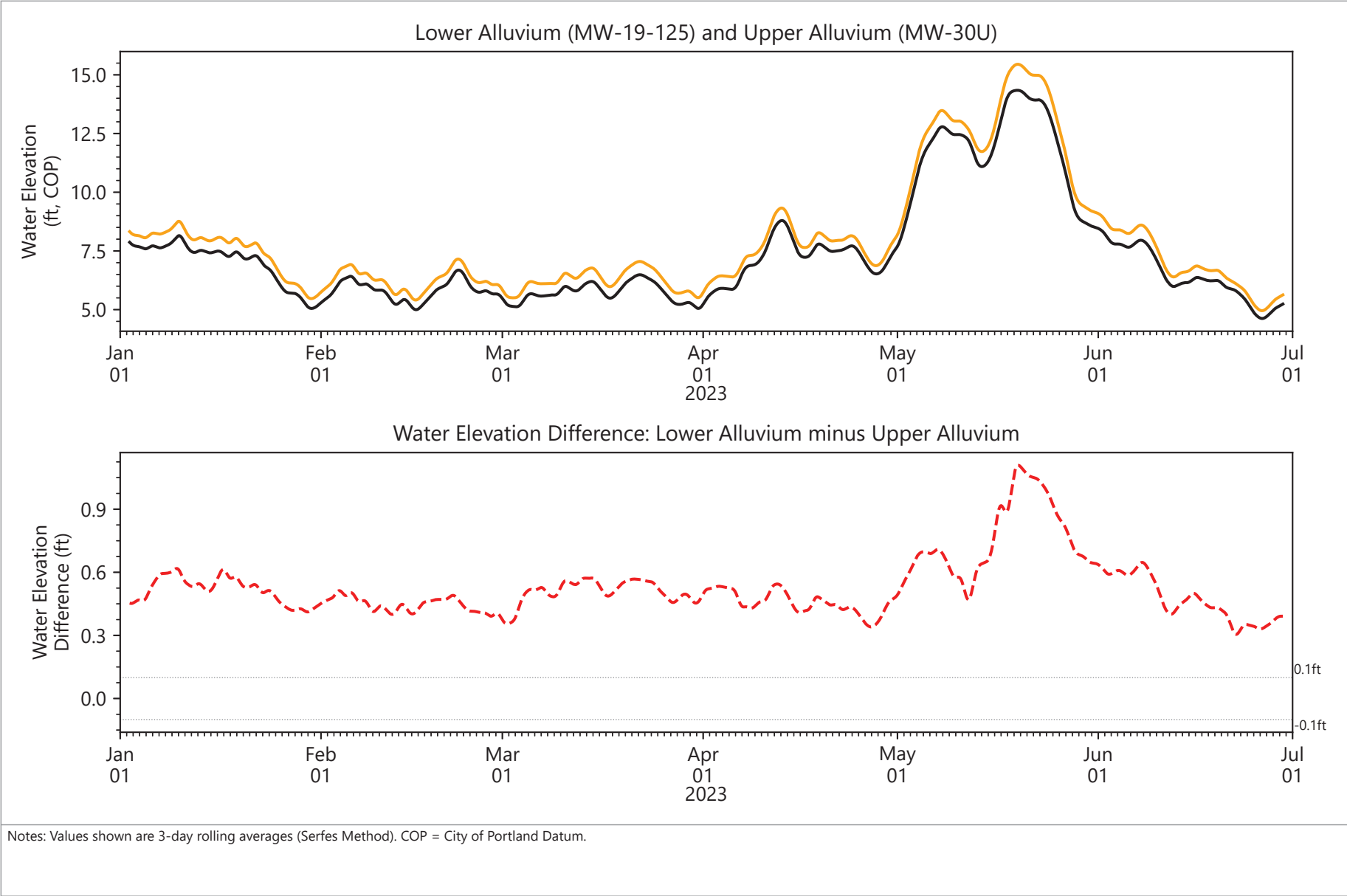


Publish Date: 08/08/2023 15:08 PM | User: SEA-AMEU
 \\fuji\Anchor\Data Management\Users\Albert\Projects\Gasco\Python\elelevation_time_series_per6months_EQuiS.py



- Lower Alluvium
- Upper Alluvium
- - - Water Elevation Difference
- ⋯ 0.1 ft Total Potential Uncertainty

Figure 5.5
Groundwater Elevation Differences
 NW Natural Gasco Site

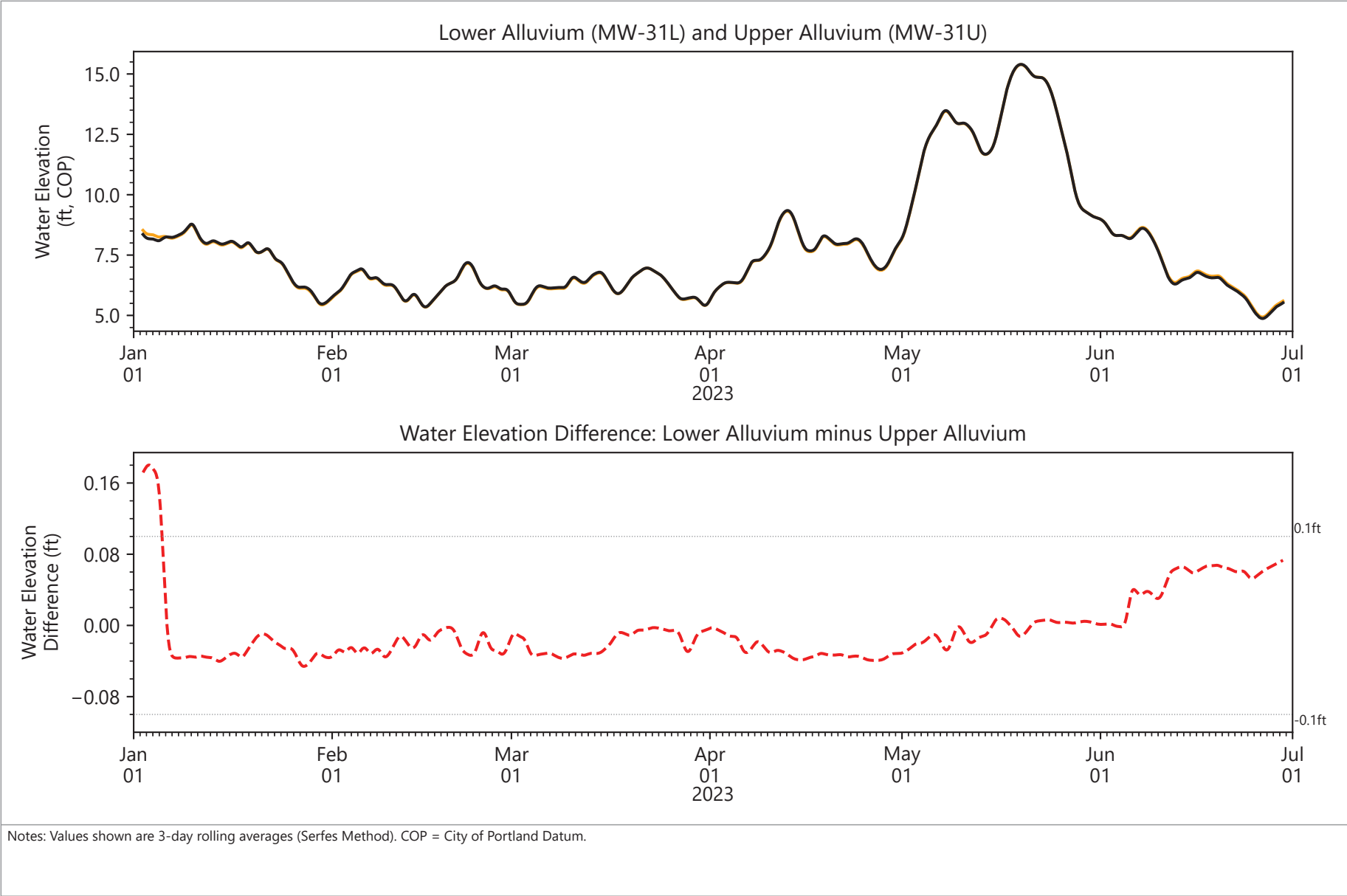


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 \\fuji\Anchor\Data Management\Users\Albert\Projects\Gasco\Python\elelevation_time_series_per6months_EQUIS.py



- Lower Alluvium
- Upper Alluvium
- - - Water Elevation Difference
- ⋯ 0.1 ft Total Potential Uncertainty

Figure 5.6
Groundwater Elevation Differences
 NW Natural Gasco Site

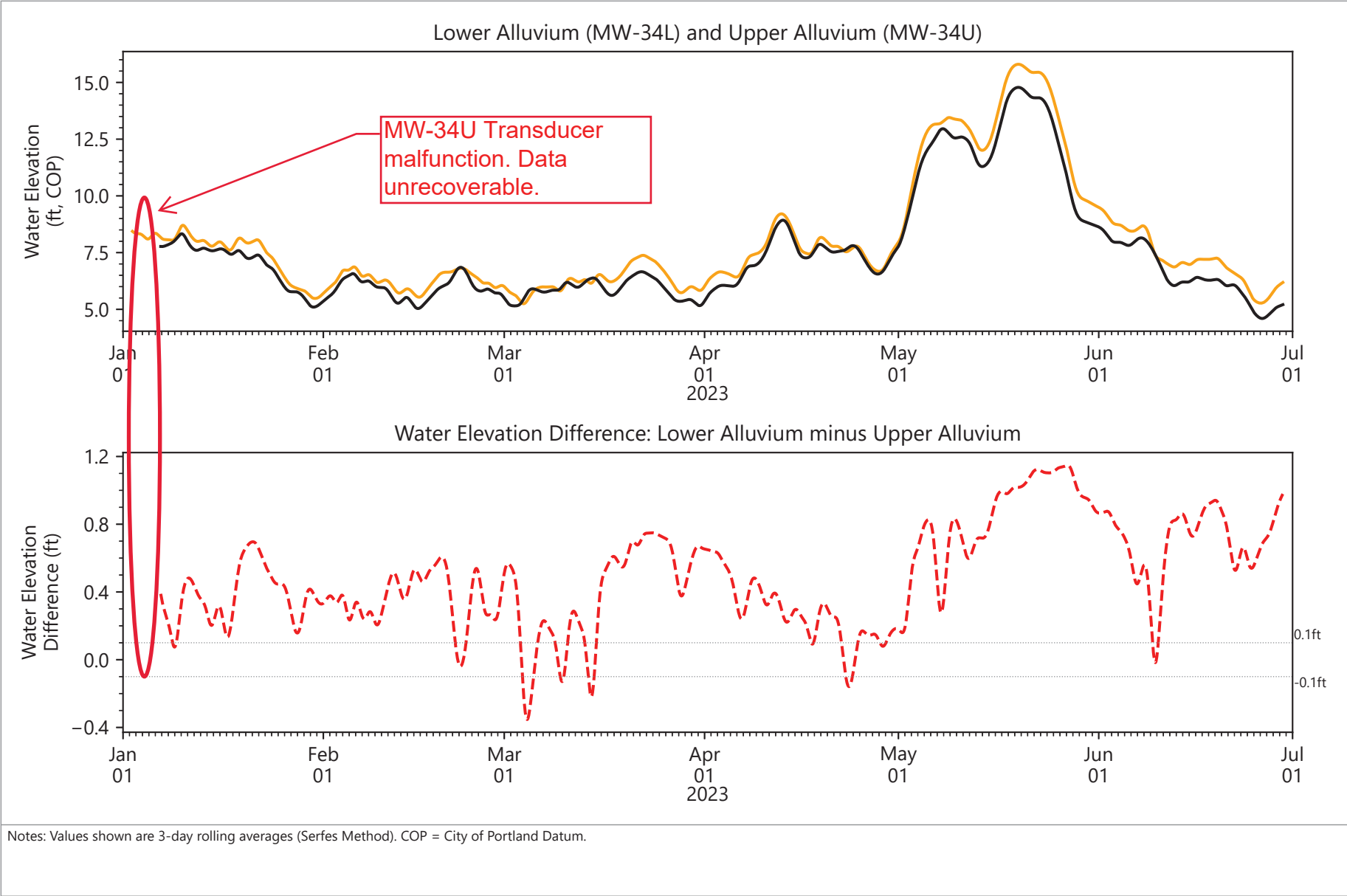


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- Lower Alluvium
- Upper Alluvium
- - - Water Elevation Difference
- ⋯ 0.1 ft Total Potential Uncertainty

Figure 5.7
Groundwater Elevation Differences
 NW Natural Gasco Site

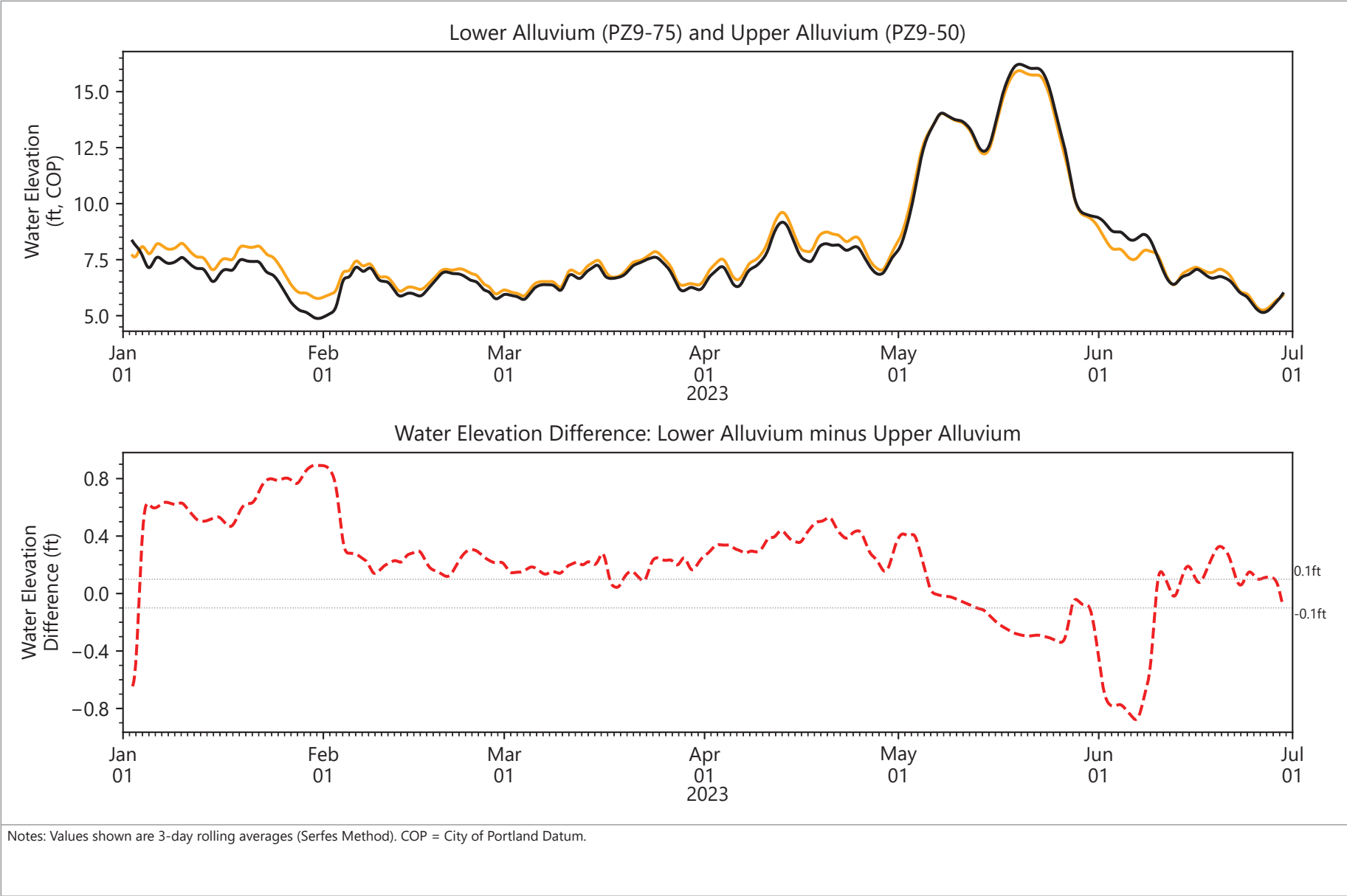


Publish Date: 08/08/2023 15:08 PM | User: SEA-AMEU
 \\fuji\Anchor\Data Management\Users\Albert\Projects\Gasco\Python\elelevation_time_series_per6months_EQUIS.py



- Lower Alluvium
- Upper Alluvium
- - - Water Elevation Difference
- 0.1 ft Total Potential Uncertainty

Figure 5.8
Groundwater Elevation Differences
 NW Natural Gasco Site



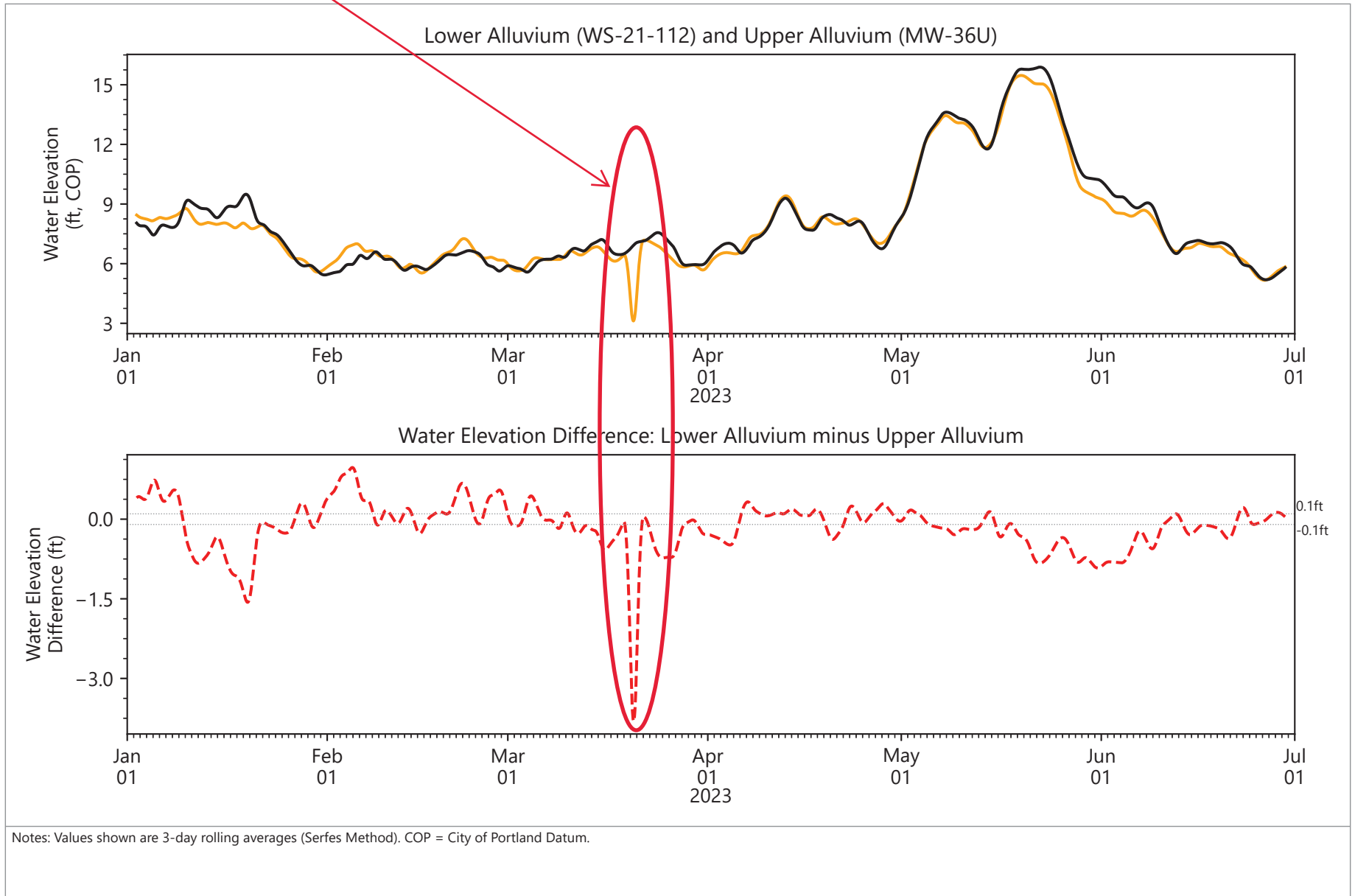
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 \\fuji\Anchor\Data Management\Users\Albert\Projects\Gasco\Python\elelevation_time_series_per6months_EQUIS.py



- Lower Alluvium
- Upper Alluvium
- - - Water Elevation Difference
- 0.1 ft Total Potential Uncertainty

Figure 5.9
Groundwater Elevation Differences
 NW Natural Gasco Site

1Q Groundwater Sampling of WS-21-112

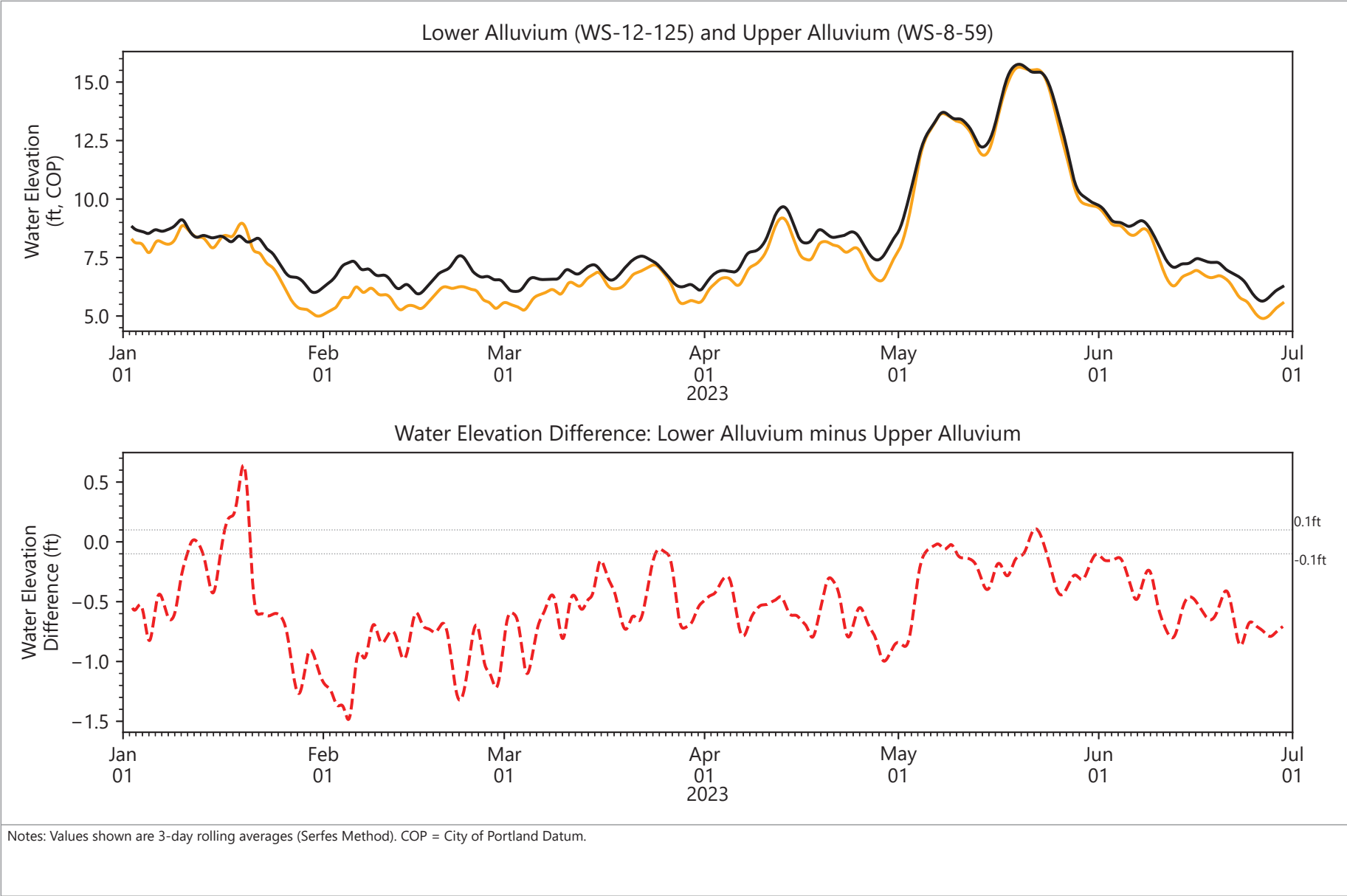


Publish Date: 08/08/2023 15:08 PM | User: SEA-AMEU
 \\fuji\Anchor\Data Management\Users\Albert\Projects\Gasco\Python\elelevation_time_series_per6months_EQUIS.py



- Lower Alluvium
- Upper Alluvium
- - - Water Elevation Difference
- ⋯ 0.1 ft Total Potential Uncertainty

Figure 5.10
Groundwater Elevation Differences
 NW Natural Gasco Site

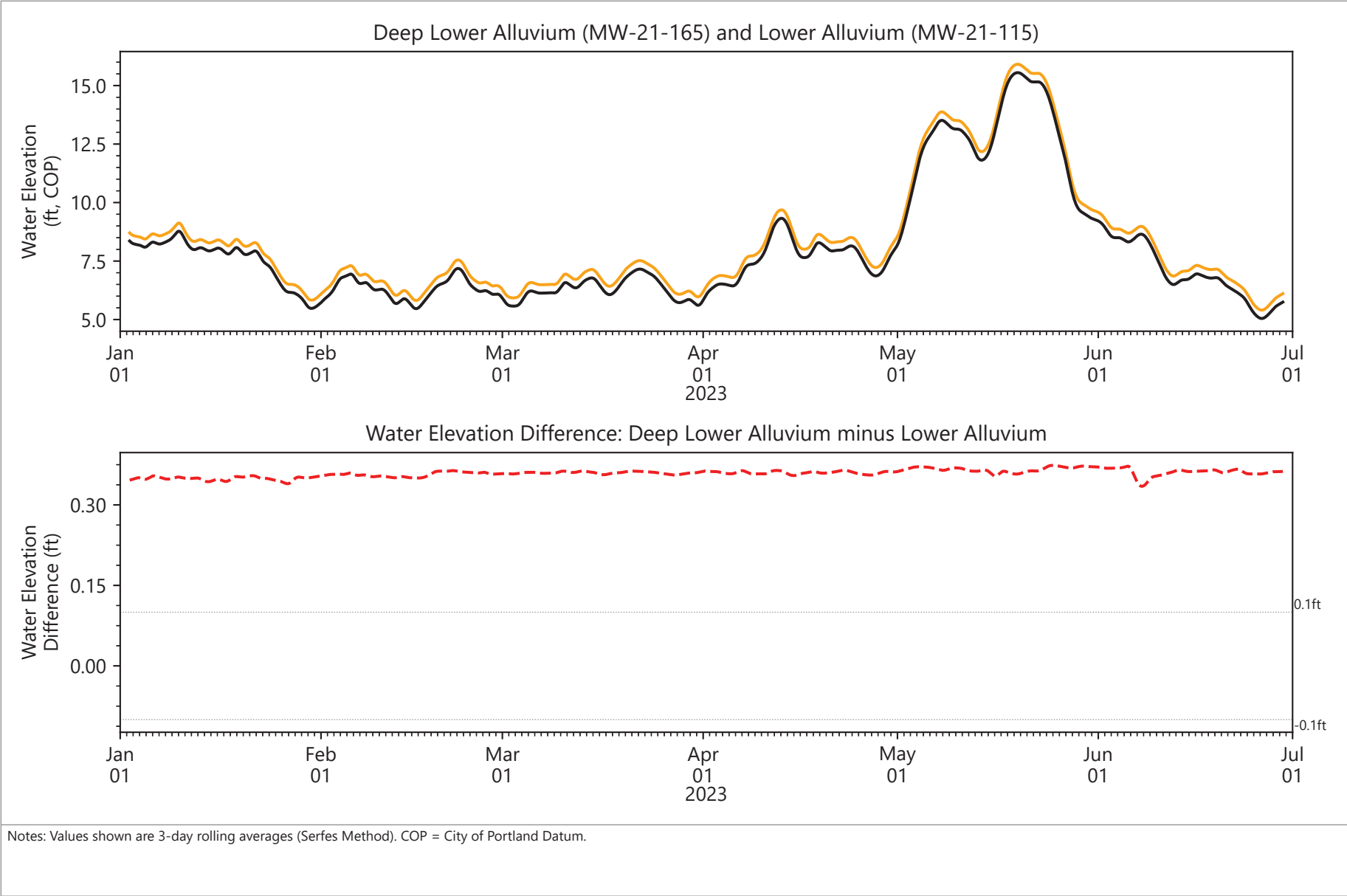


Publish Date: 08/08/2023 15:08 PM | User: SEA-AMEU
 \\fuji\Anchor\Data Management\Users\Albert\Projects\Gasco\Python\elelevation_time_series_per6months_EQUI.S.py



- Lower Alluvium
- Upper Alluvium
- - - Water Elevation Difference
- ⋯ 0.1 ft Total Potential Uncertainty

Figure 5.11
Groundwater Elevation Differences
 NW Natural Gasco Site

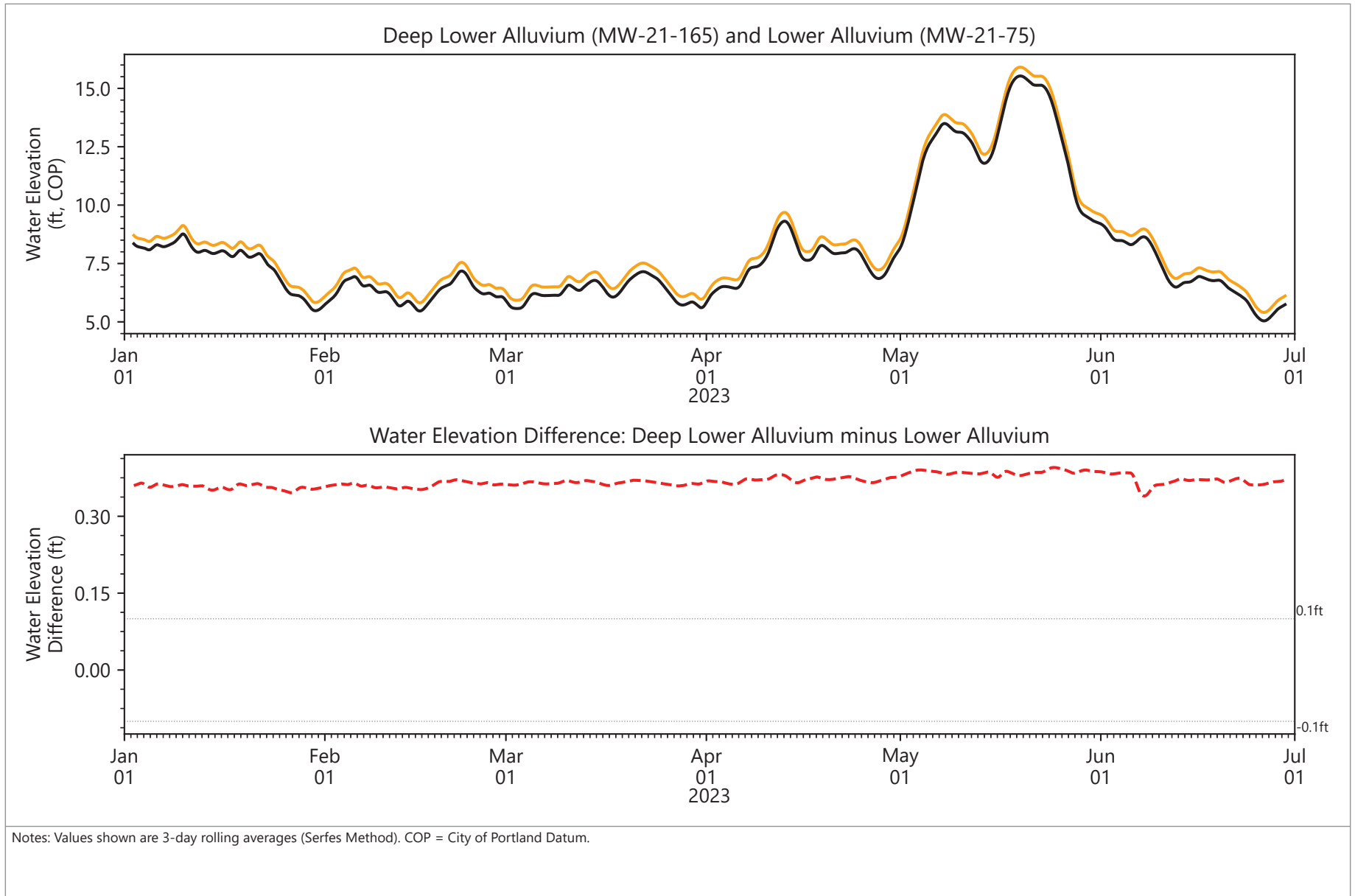


Publish Date: 08/08/2023 15:08 PM | User: SEA-AMEU
 \\fuji\Anchor\Data Management\Users\Albert\Projects\Gasco\Python\elelevation_time_series_per6months_EQUIS.py



- Deep Lower Alluvium
- Lower Alluvium
- - - Water Elevation Difference
- 0.1 ft Total Potential Uncertainty

Figure 5.12
Groundwater Elevation Differences
 NW Natural Gasco Site



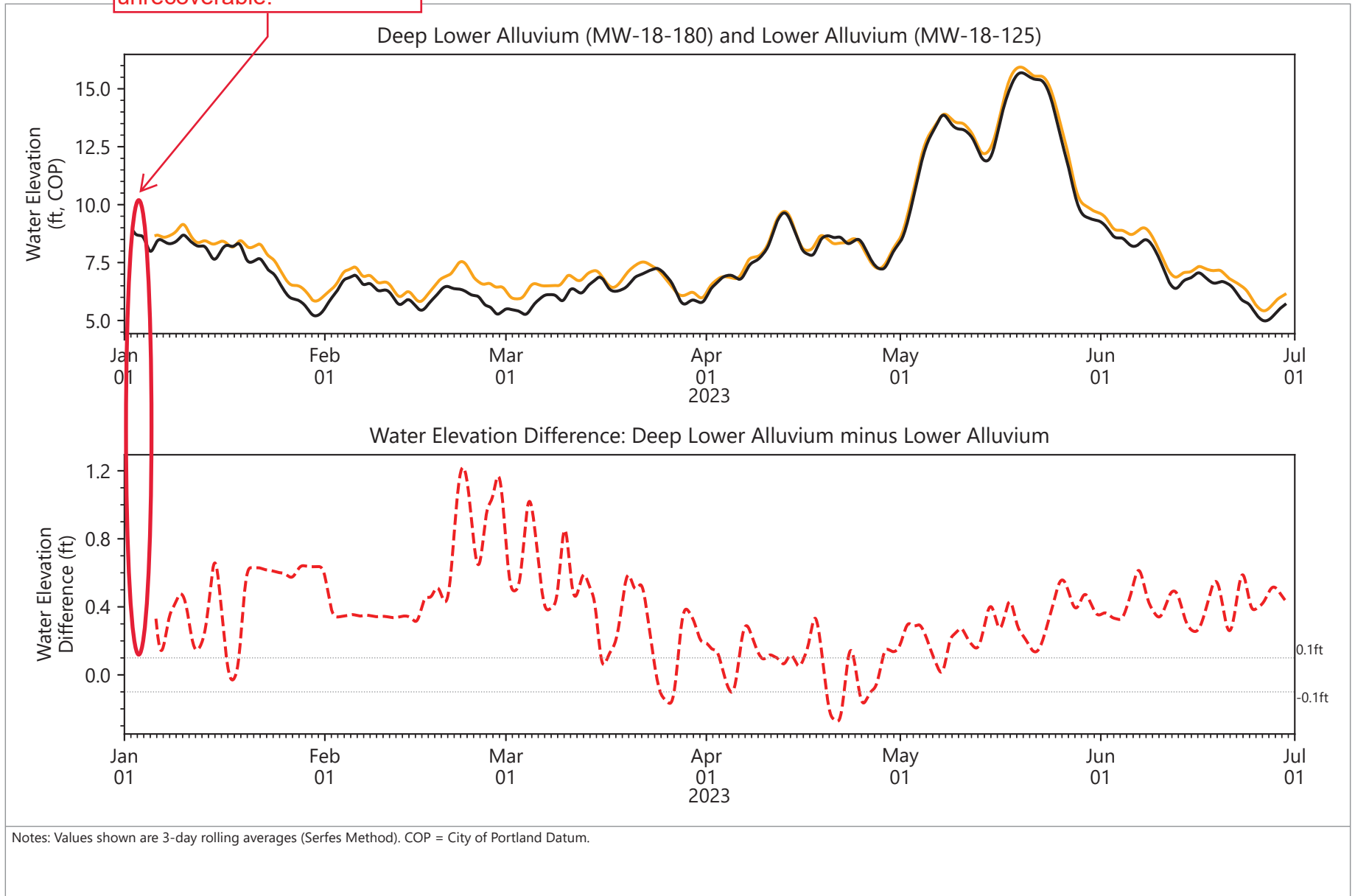
Publish Date: 08/08/2023 15:08 PM | User: SEA-AMEU
 \\fuji\Anchor\Data Management\Users\Albert\Projects\Gasco\Python\elelevation_time_series_per6months_EQUIS.py



- Deep Lower Alluvium
- Lower Alluvium
- - - Water Elevation Difference
- 0.1 ft Total Potential Uncertainty

Figure 5.13
Groundwater Elevation Differences
 NW Natural Gasco Site

MW-18-180 Transducer malfunction. Data unrecoverable.



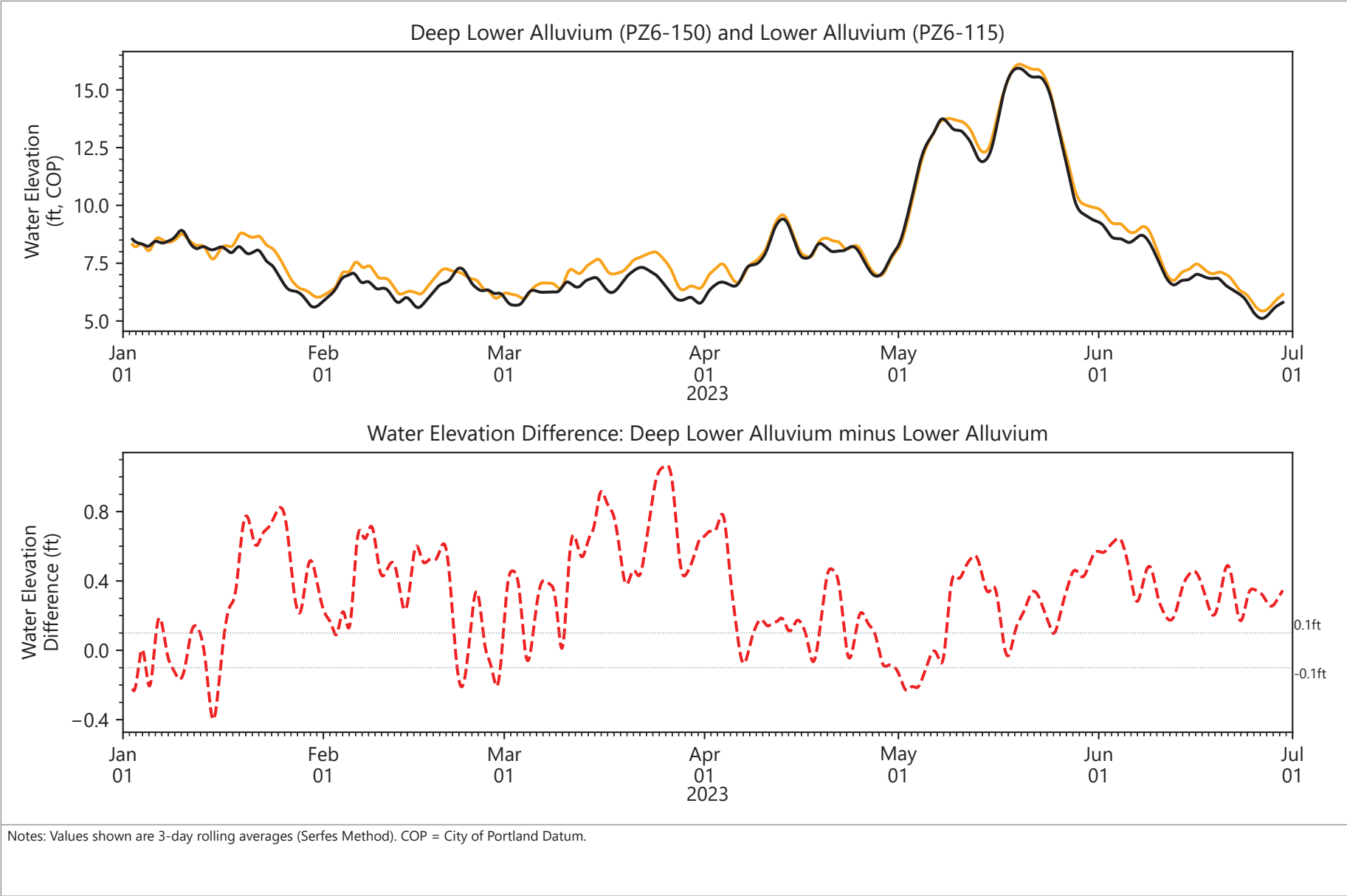
Notes: Values shown are 3-day rolling averages (Serfes Method). COP = City of Portland Datum.

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\\fuji\Anchor\Data Management\Users\Albert\Projects\Gasco\Python\elelevation_time_series_per6months_EQUIS.py



- Deep Lower Alluvium
- Lower Alluvium
- - - Water Elevation Difference
- 0.1 ft Total Potential Uncertainty

Figure 5.14
Groundwater Elevation Differences
NW Natural Gasco Site

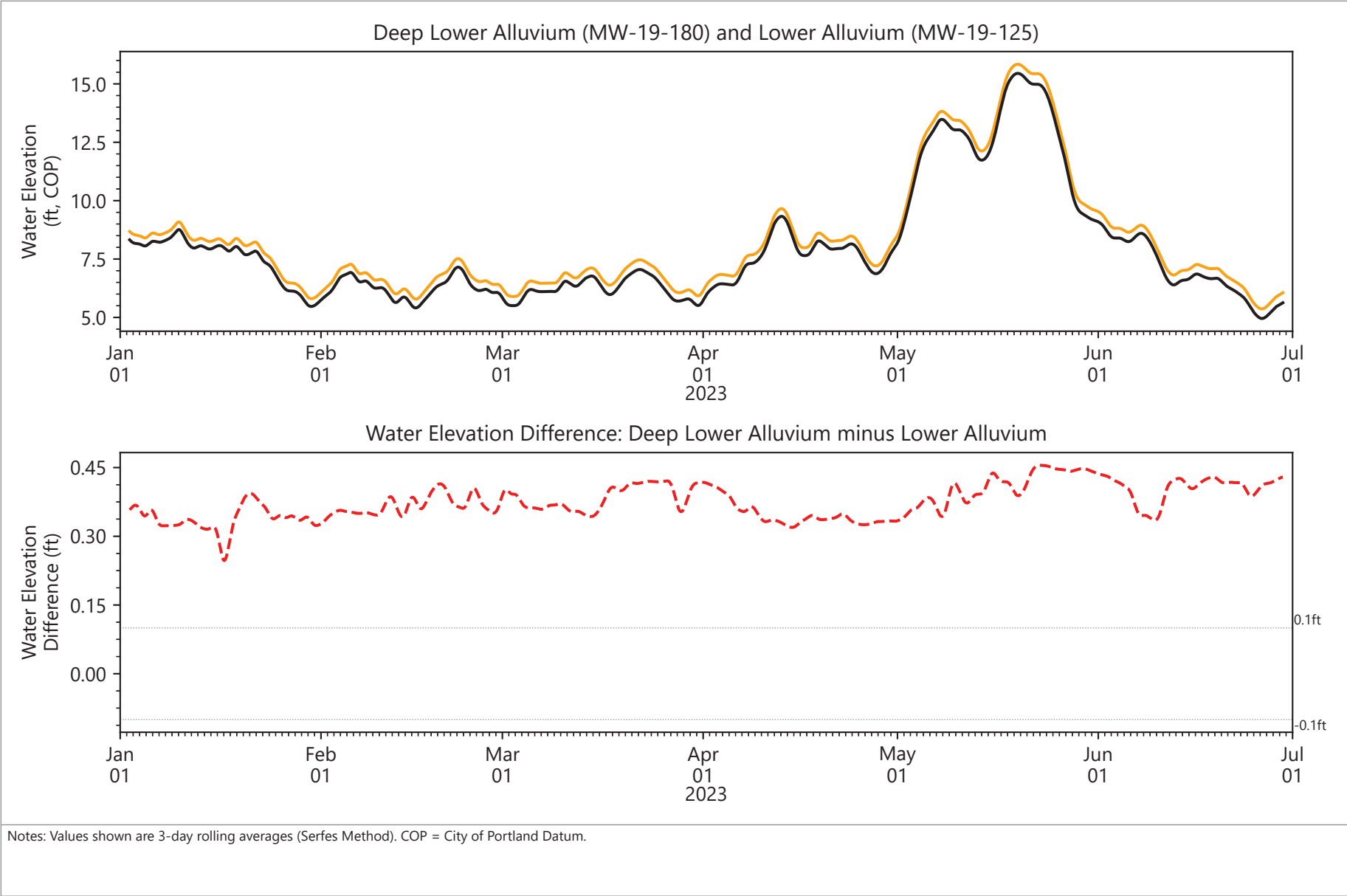


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- Deep Lower Alluvium
- Lower Alluvium
- - - Water Elevation Difference
- ⋯ 0.1 ft Total Potential Uncertainty

Figure 5.15
Groundwater Elevation Differences
 NW Natural Gasco Site

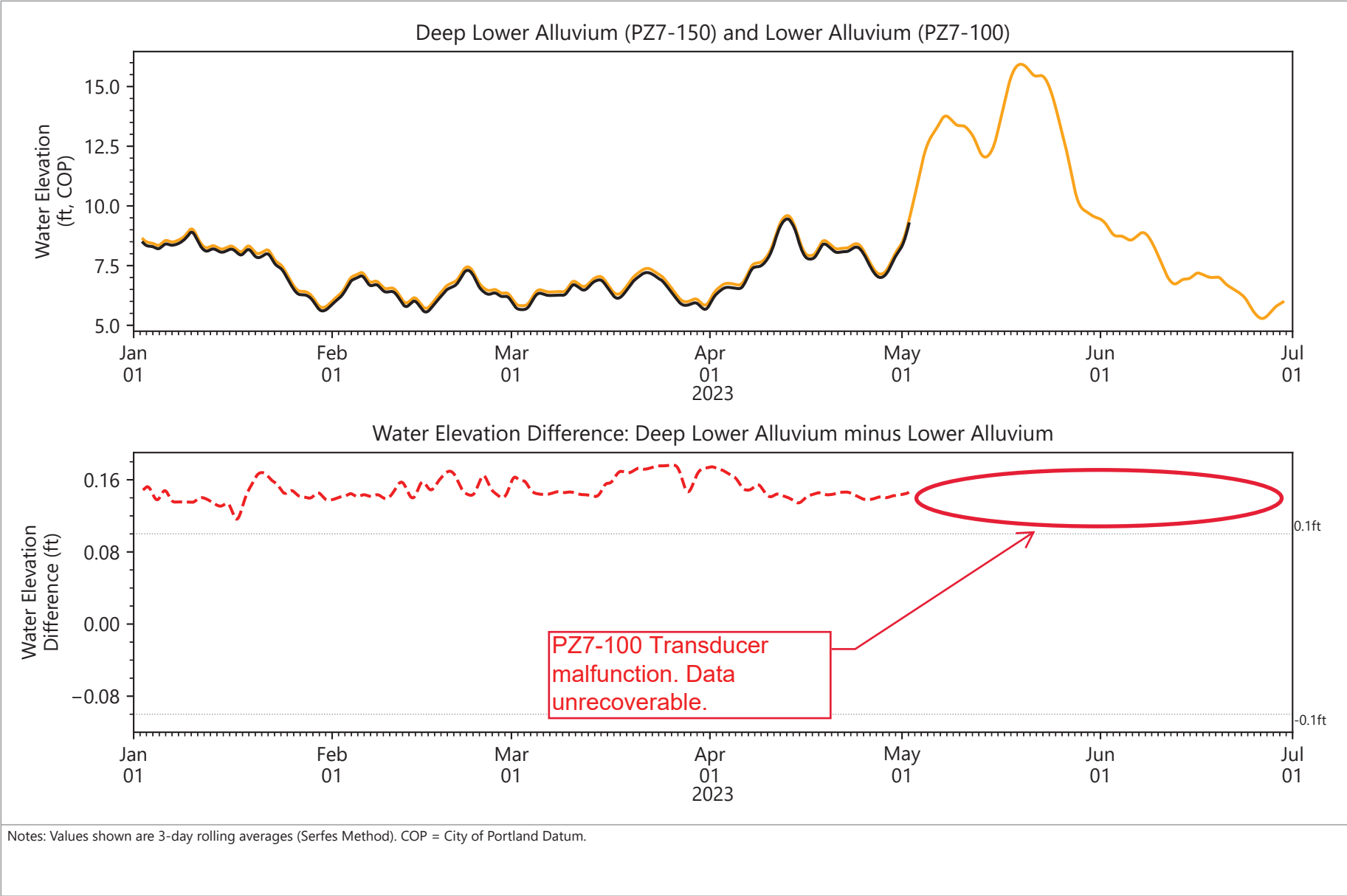


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- Deep Lower Alluvium
- Lower Alluvium
- - - Water Elevation Difference
- 0.1 ft Total Potential Uncertainty

Figure 5.16
Groundwater Elevation Differences
 NW Natural Gasco Site

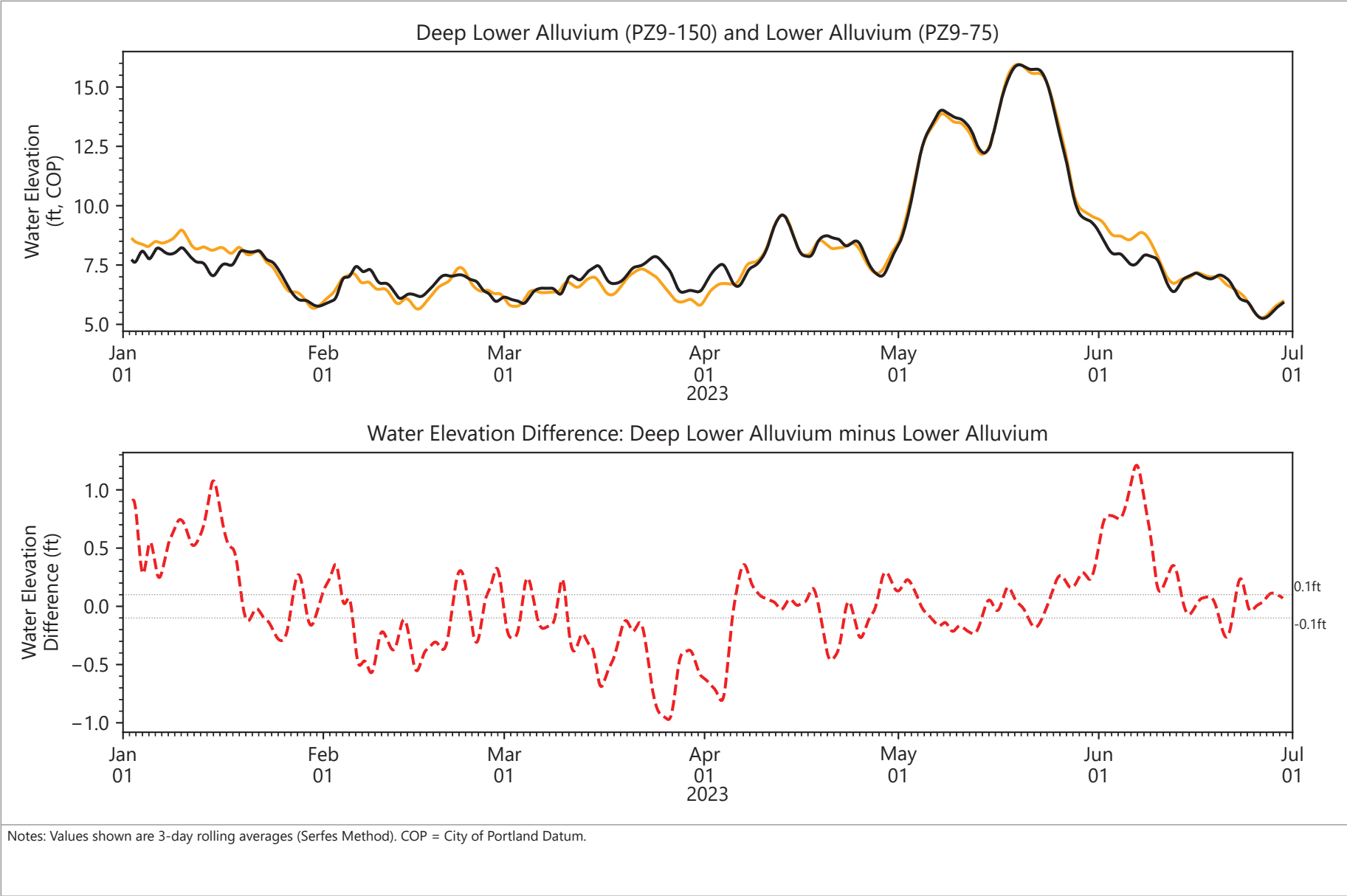


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- Deep Lower Alluvium
- Lower Alluvium
- - - Water Elevation Difference
- 0.1 ft Total Potential Uncertainty

Figure 5.17
Groundwater Elevation Differences
 NW Natural Gasco Site

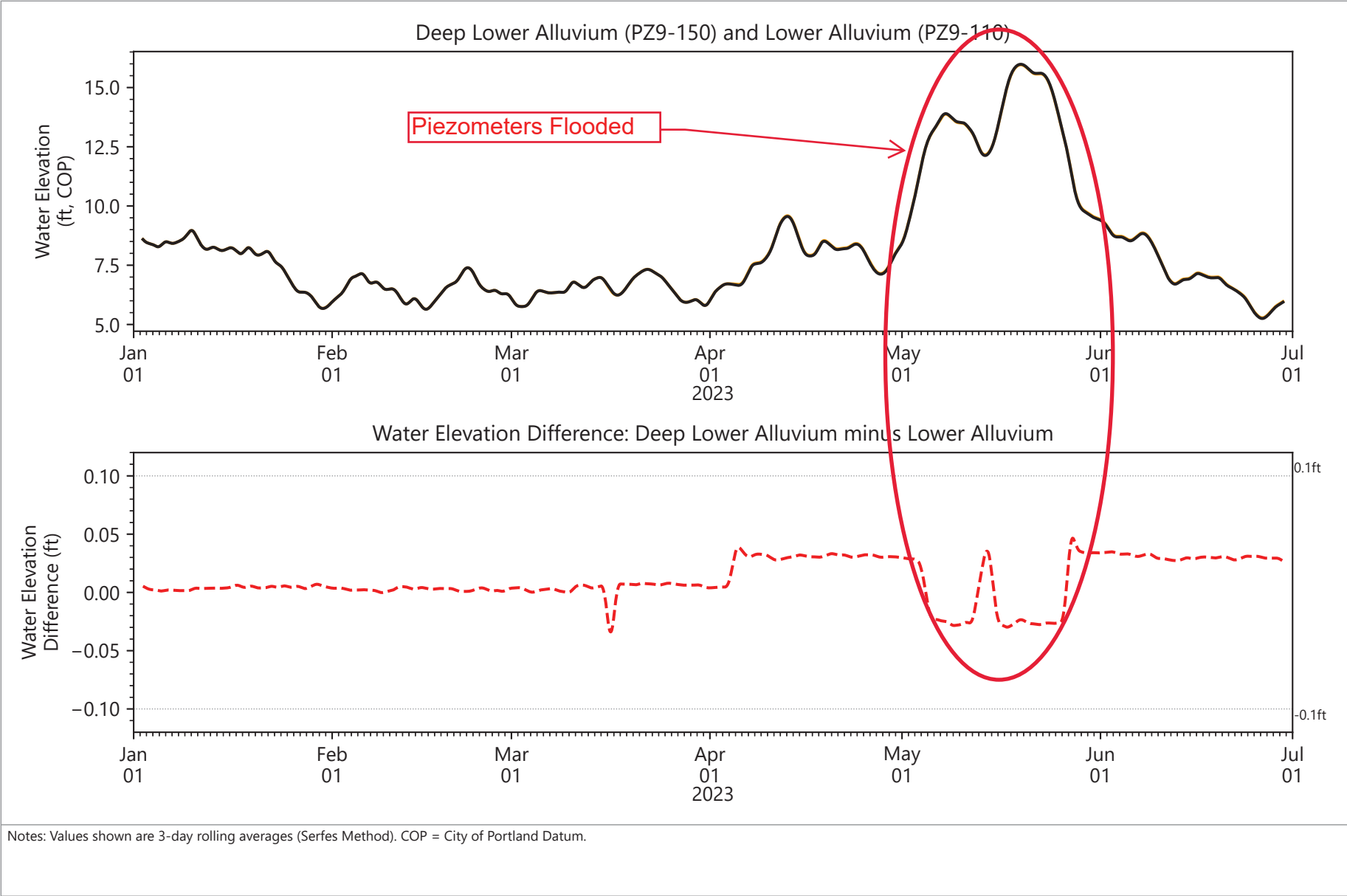


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- Deep Lower Alluvium
- Lower Alluvium
- - - Water Elevation Difference
- ⋯ 0.1 ft Total Potential Uncertainty

Figure 5.18
Groundwater Elevation Differences
 NW Natural Gasco Site

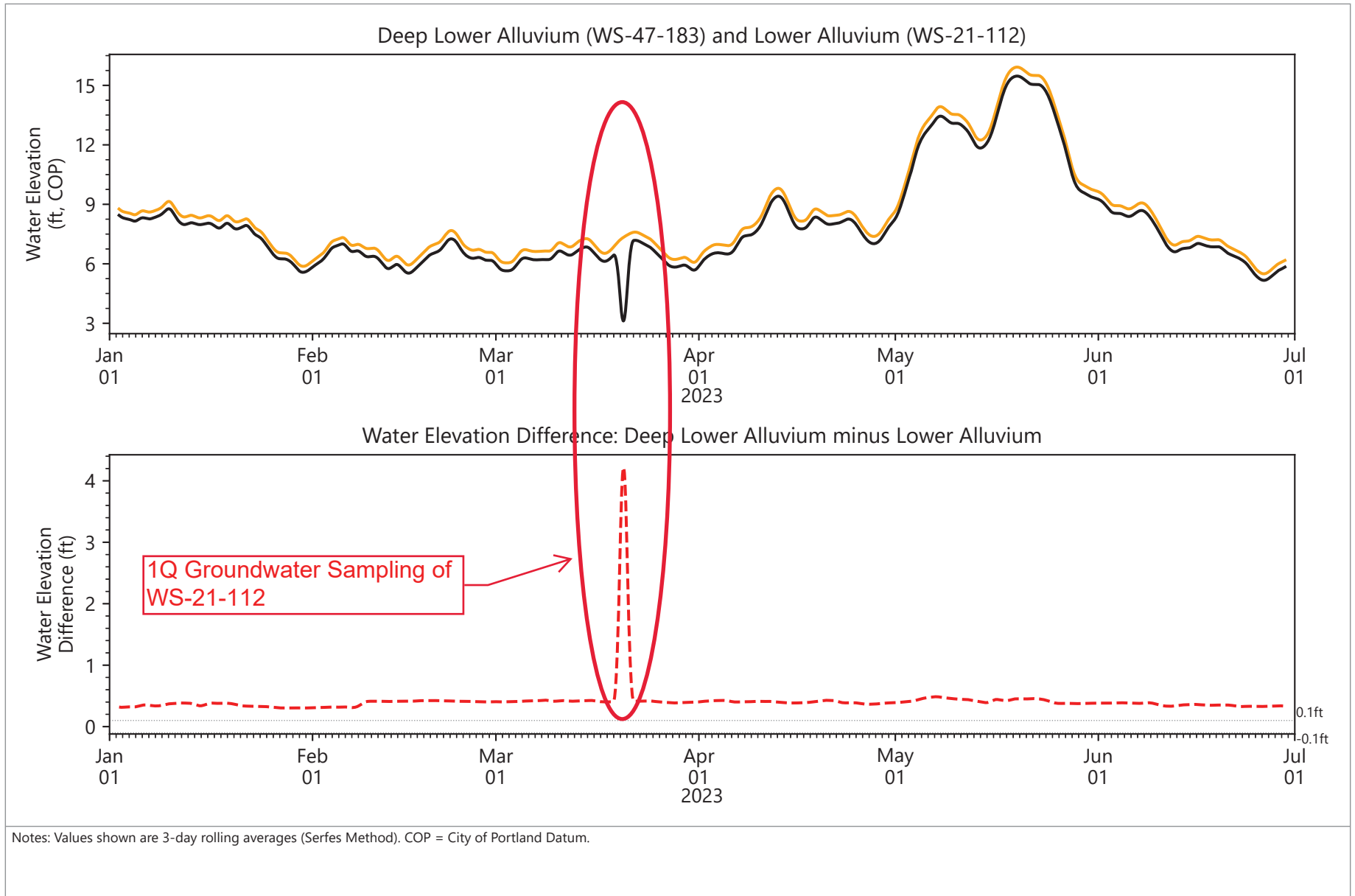


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- Deep Lower Alluvium
- Lower Alluvium
- - - Water Elevation Difference
- 0.1 ft Total Potential Uncertainty

Figure 5.19
Groundwater Elevation Differences
 NW Natural Gasco Site

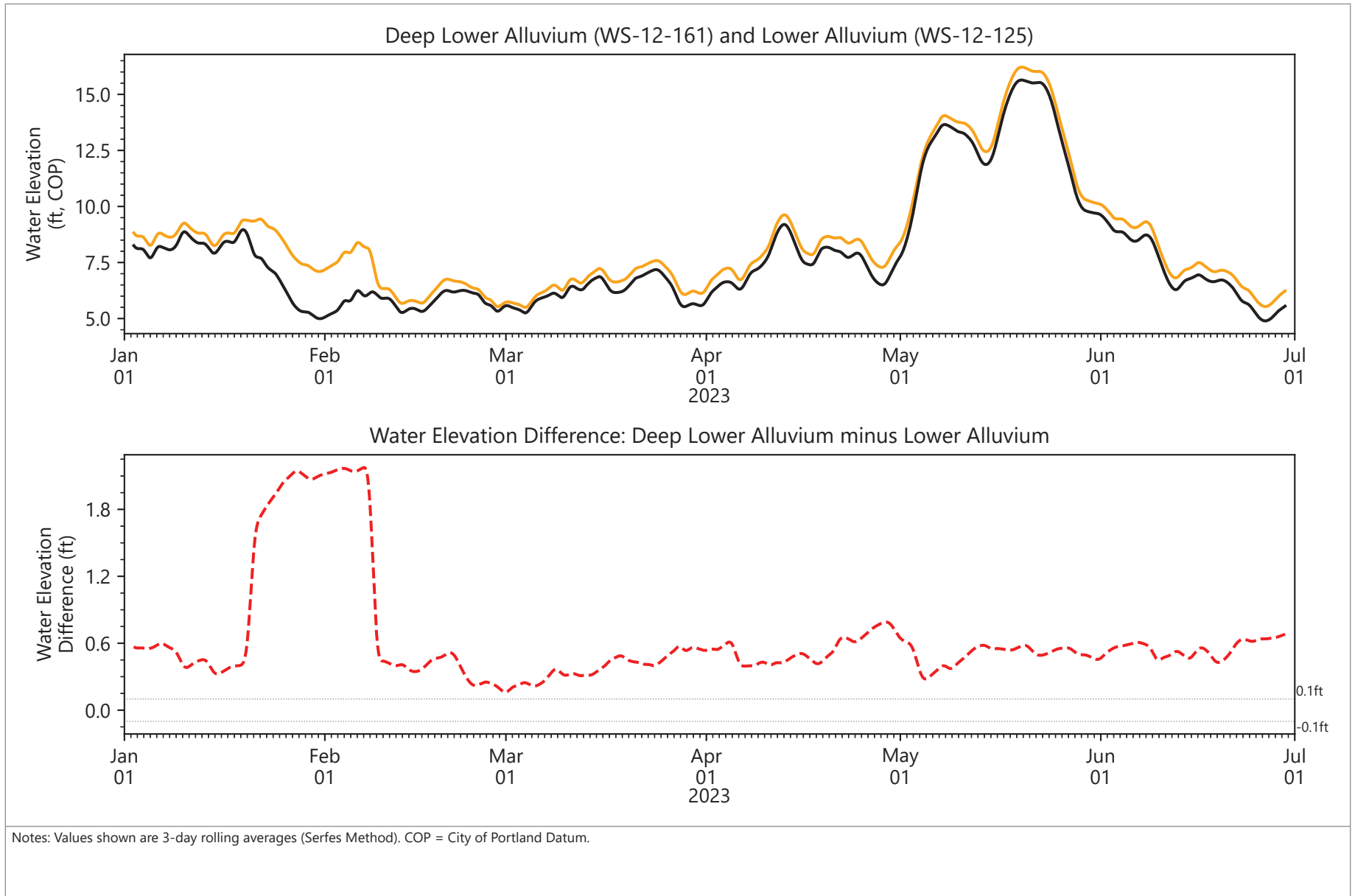


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- Deep Lower Alluvium
- Lower Alluvium
- - - Water Elevation Difference
- 0.1 ft Total Potential Uncertainty

Figure 5.20
Groundwater Elevation Differences
 NW Natural Gasco Site

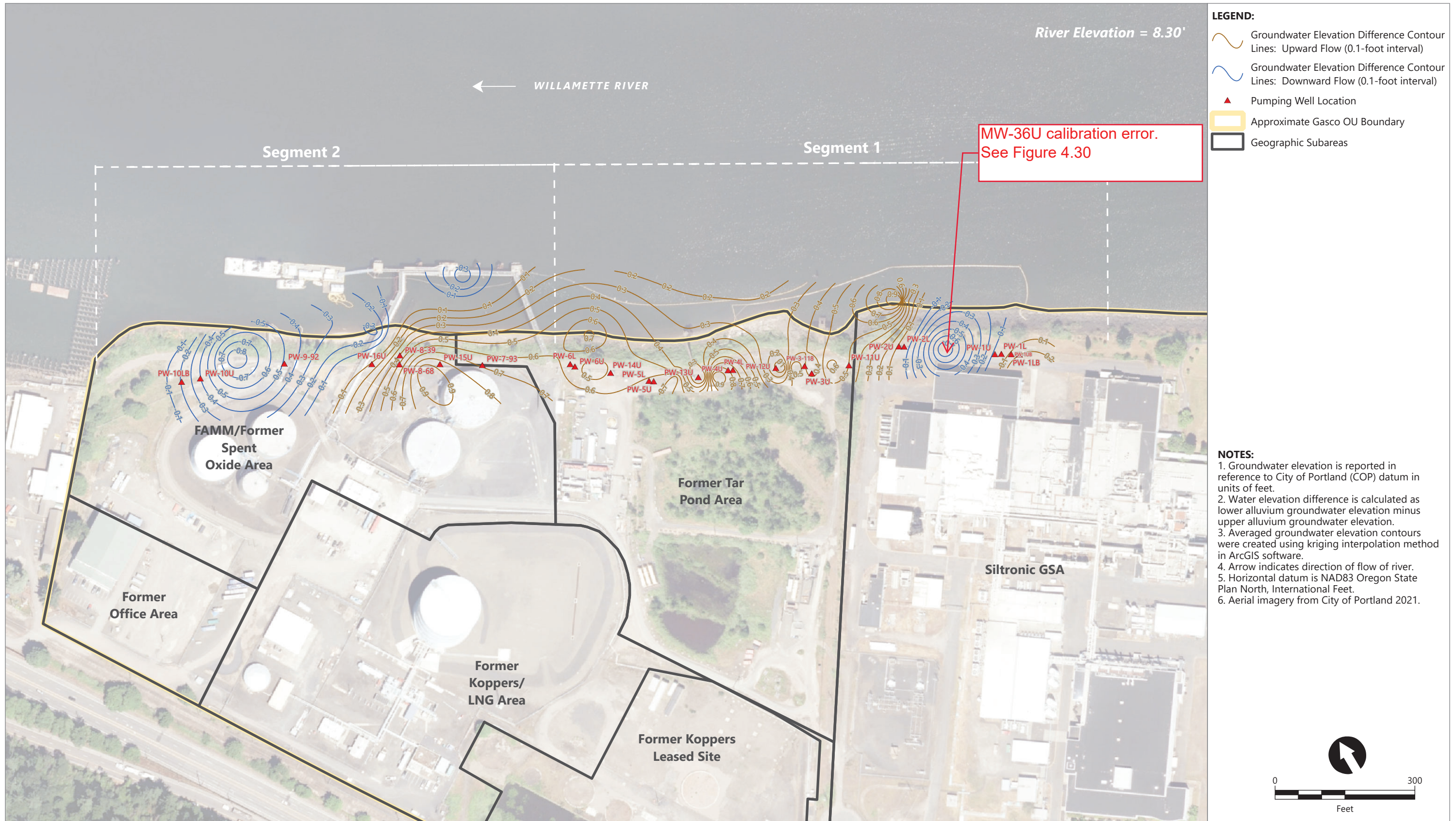


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- Deep Lower Alluvium
- Lower Alluvium
- - - Water Elevation Difference
- 0.1 ft Total Potential Uncertainty

Figure 5.21
Groundwater Elevation Differences
 NW Natural Gasco Site

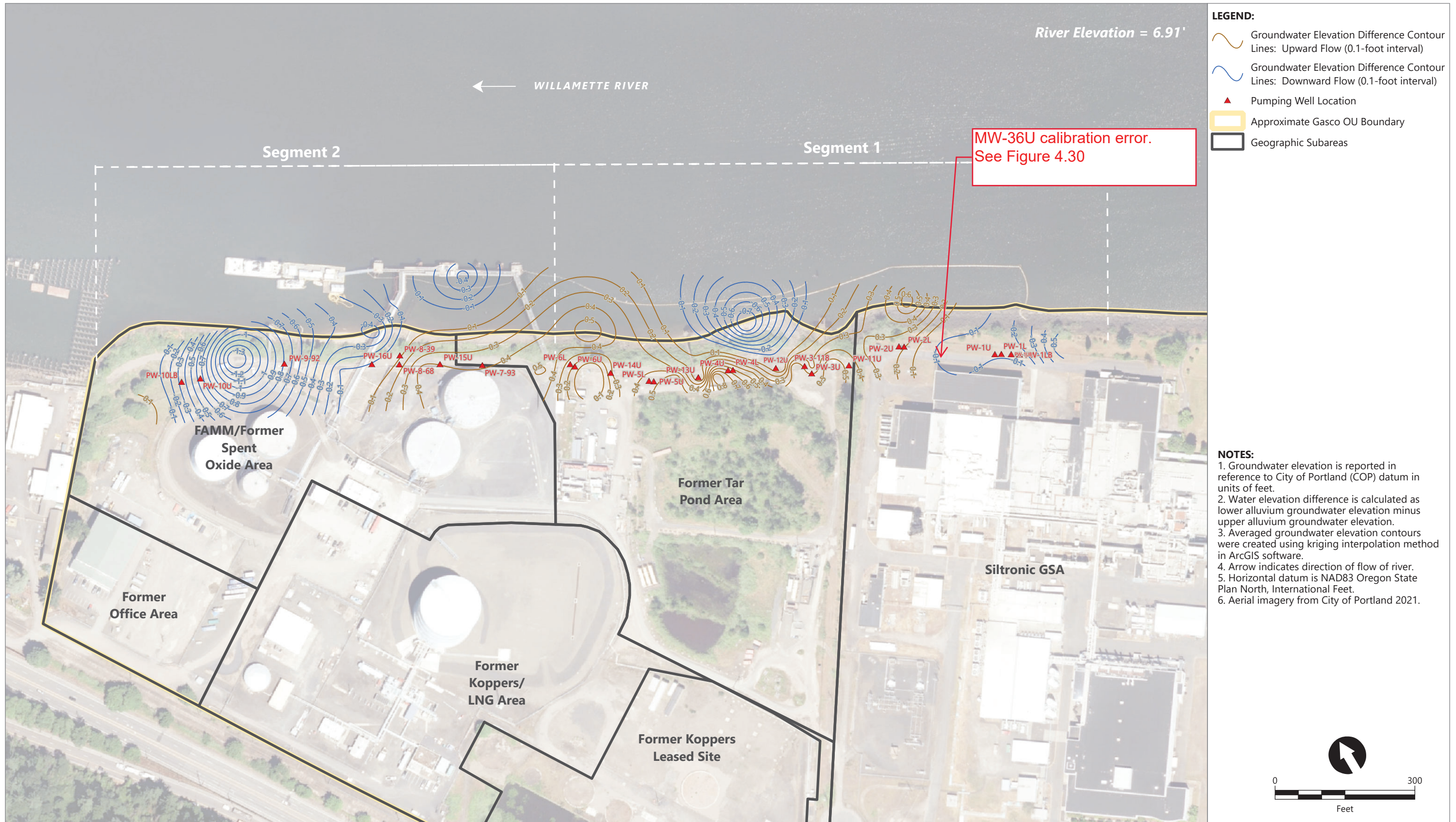


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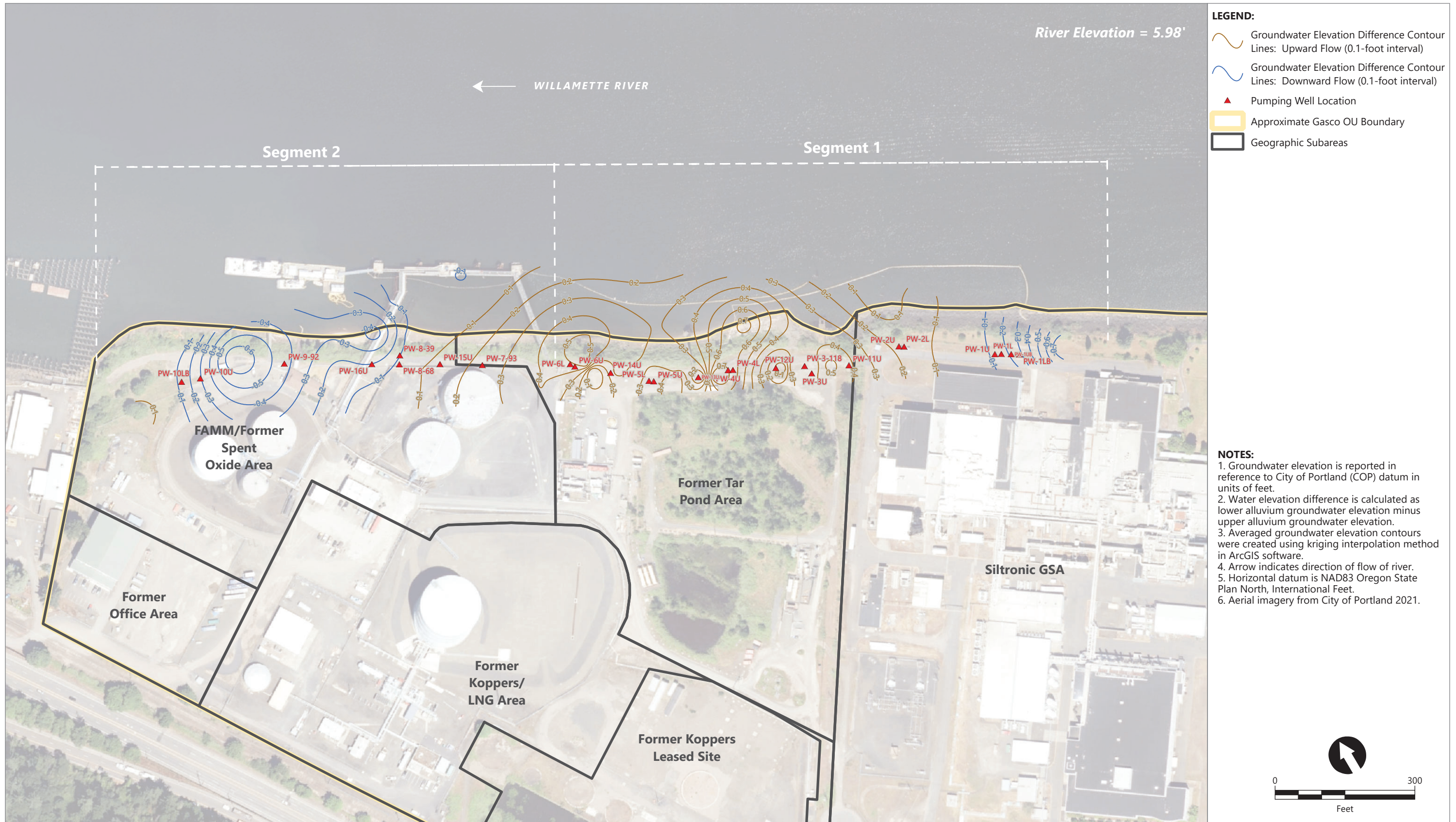


Figure 6.1
 Contours of Water Elevation Difference Between Upper and Lower Alluvium Using Serfes 3-Day Rolling Averages From 1/11/2023-1/13/2023

NWN Gasco Site
 Portland, Oregon



Publish Date: 2023/07/27, 11:37 AM | User: cgardner
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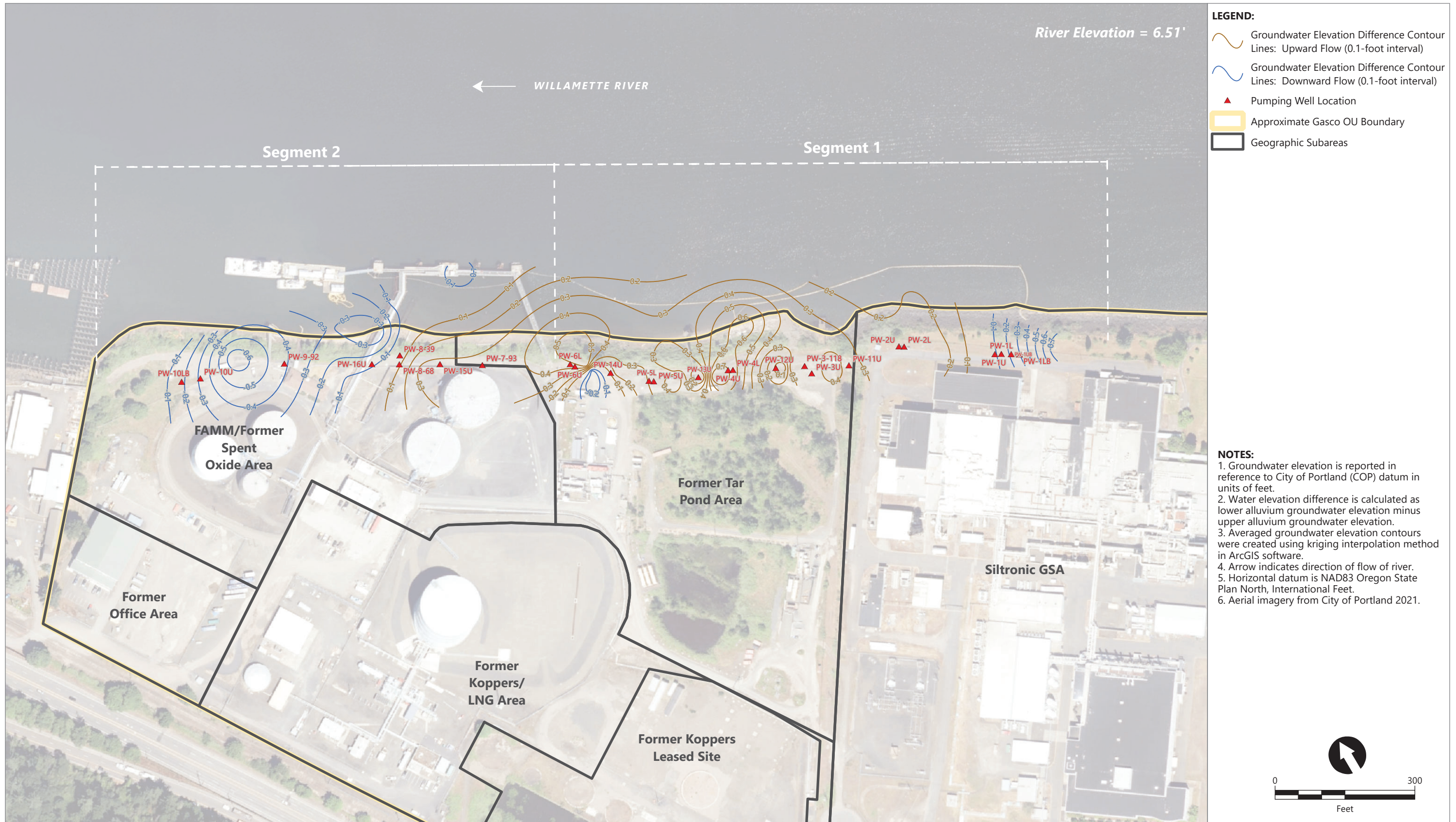


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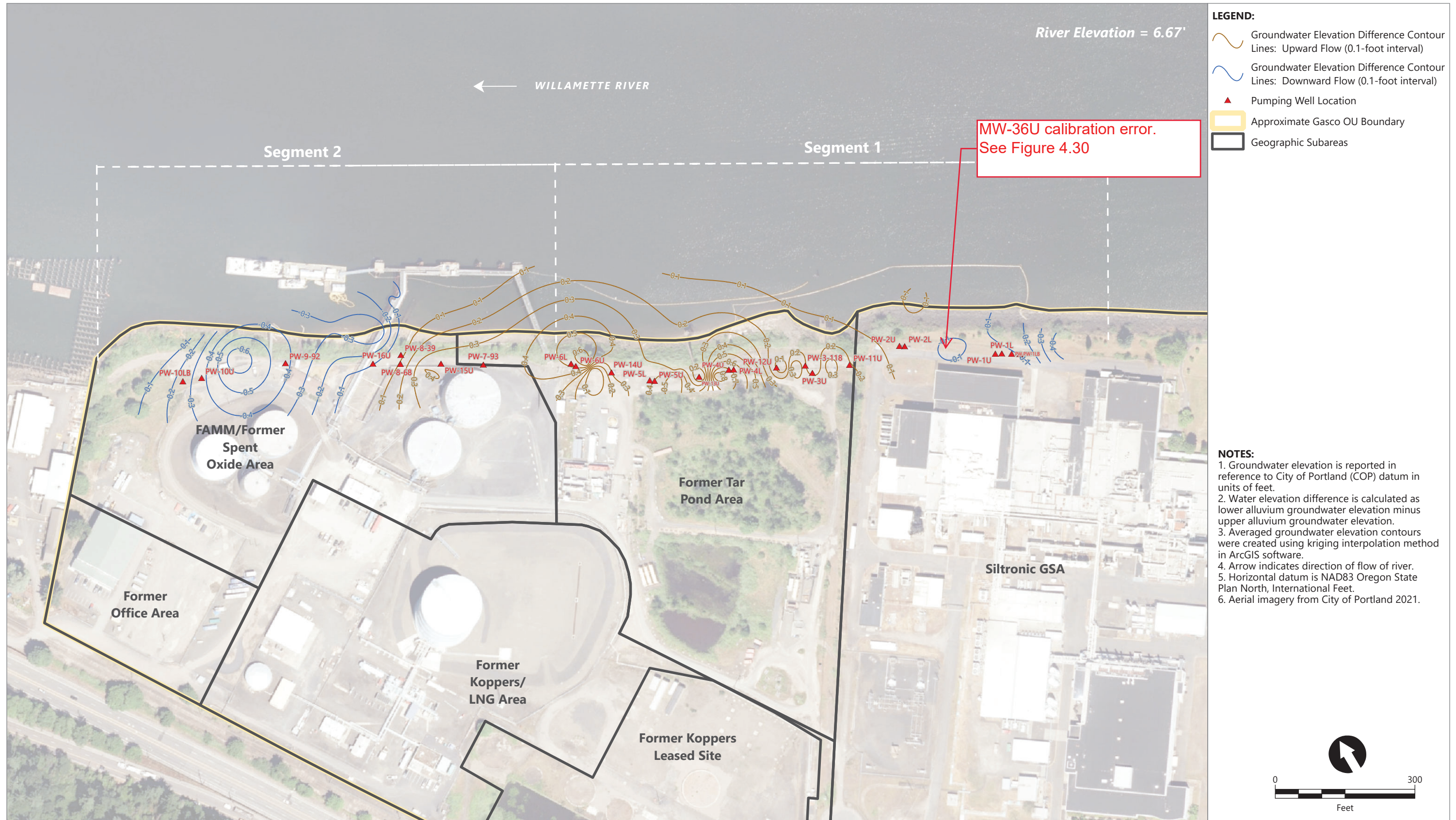


Figure 6.3
Contours of Water Elevation Difference Between Upper and Lower Alluvium Using Serfes 3-Day Rolling Averages From 2/11/2023-2/13/2023

NWN Gasco Site
 Portland, Oregon

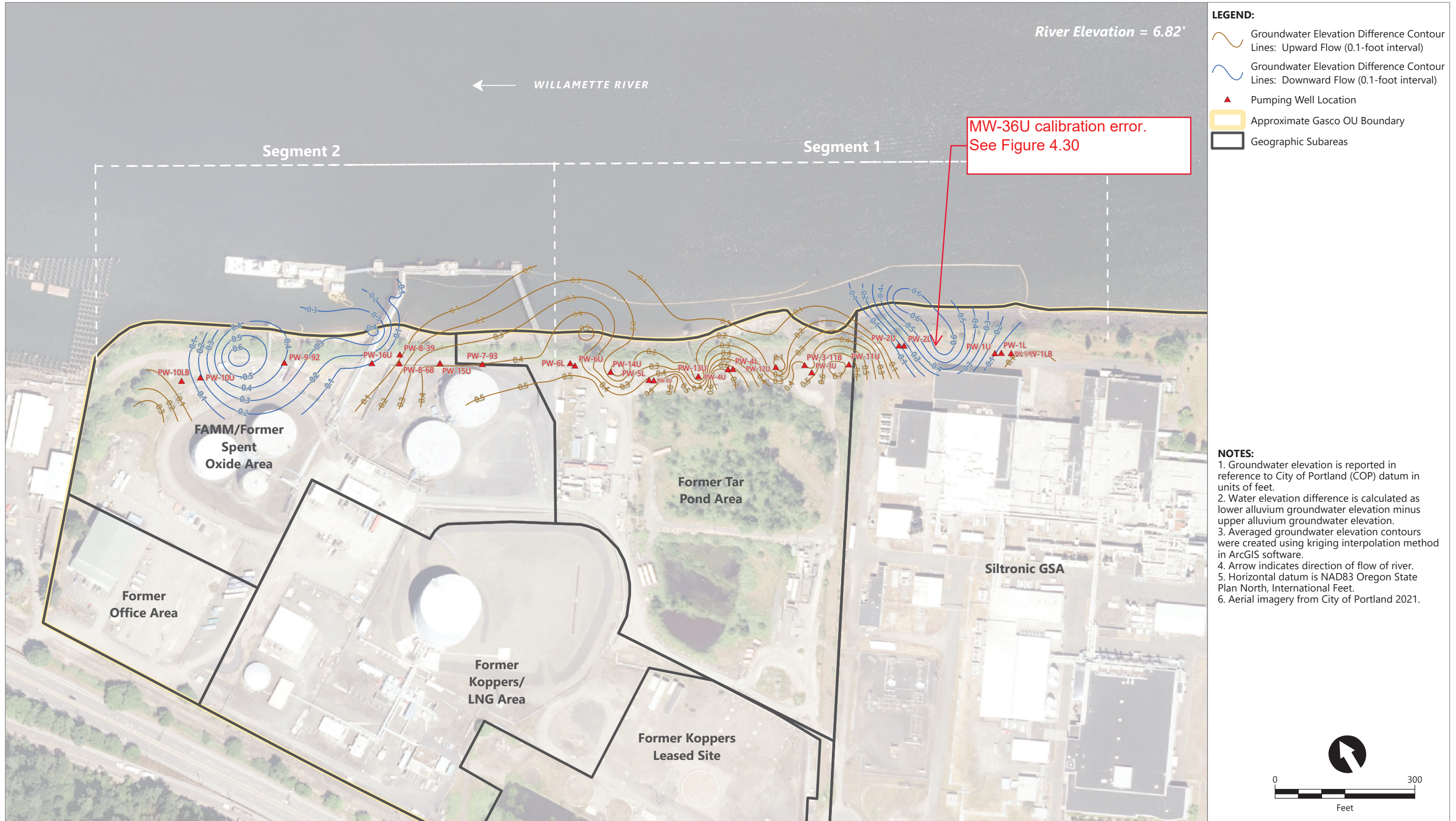


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Publish Date: 2023/07/28, 10:09 AM | User: cgardner
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Figure 6.5
Contours of Water Elevation Difference Between Upper and Lower Alluvium Using Serfes 3-Day Rolling Averages From 3/11/2023-3/13/2023

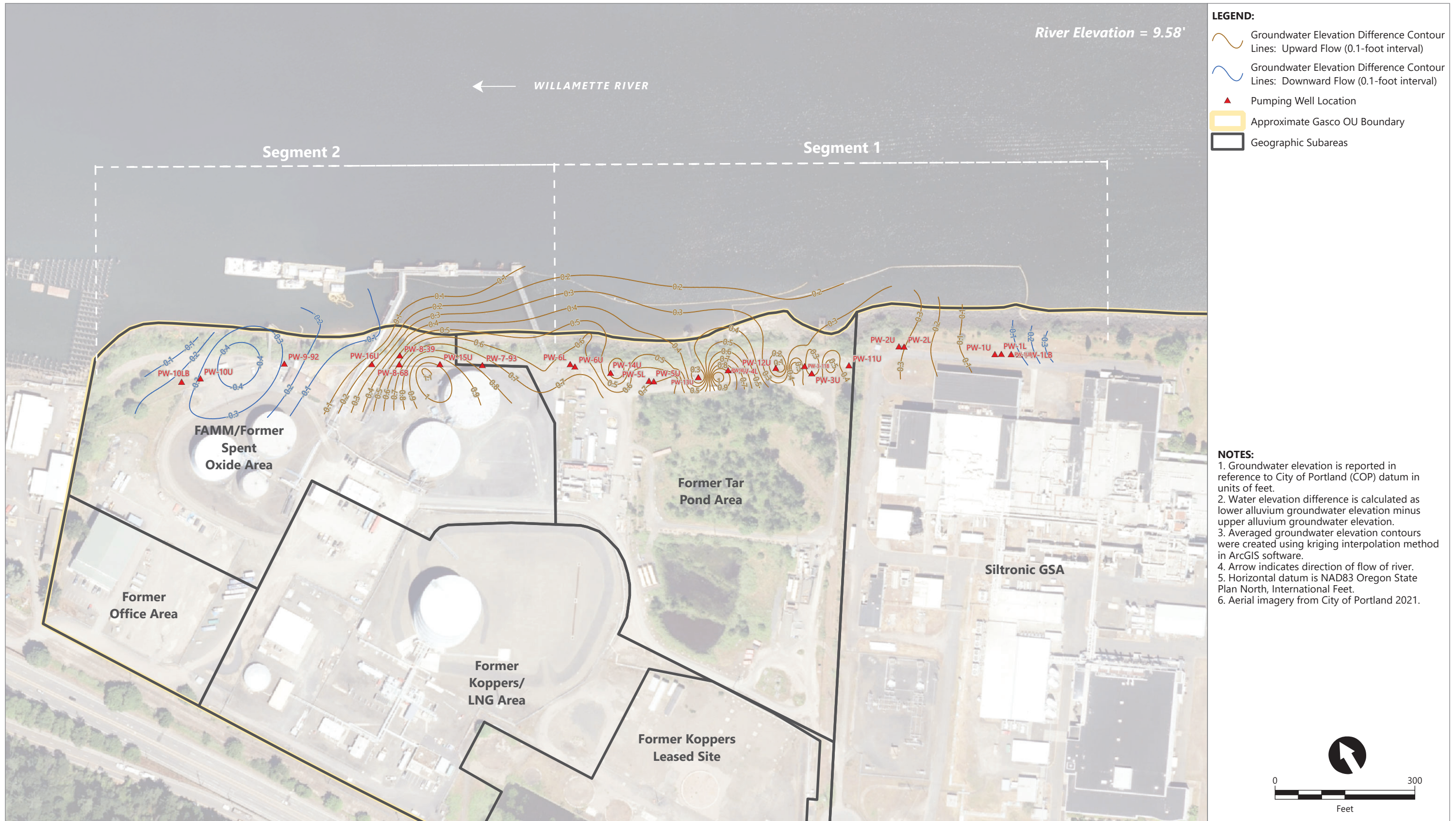


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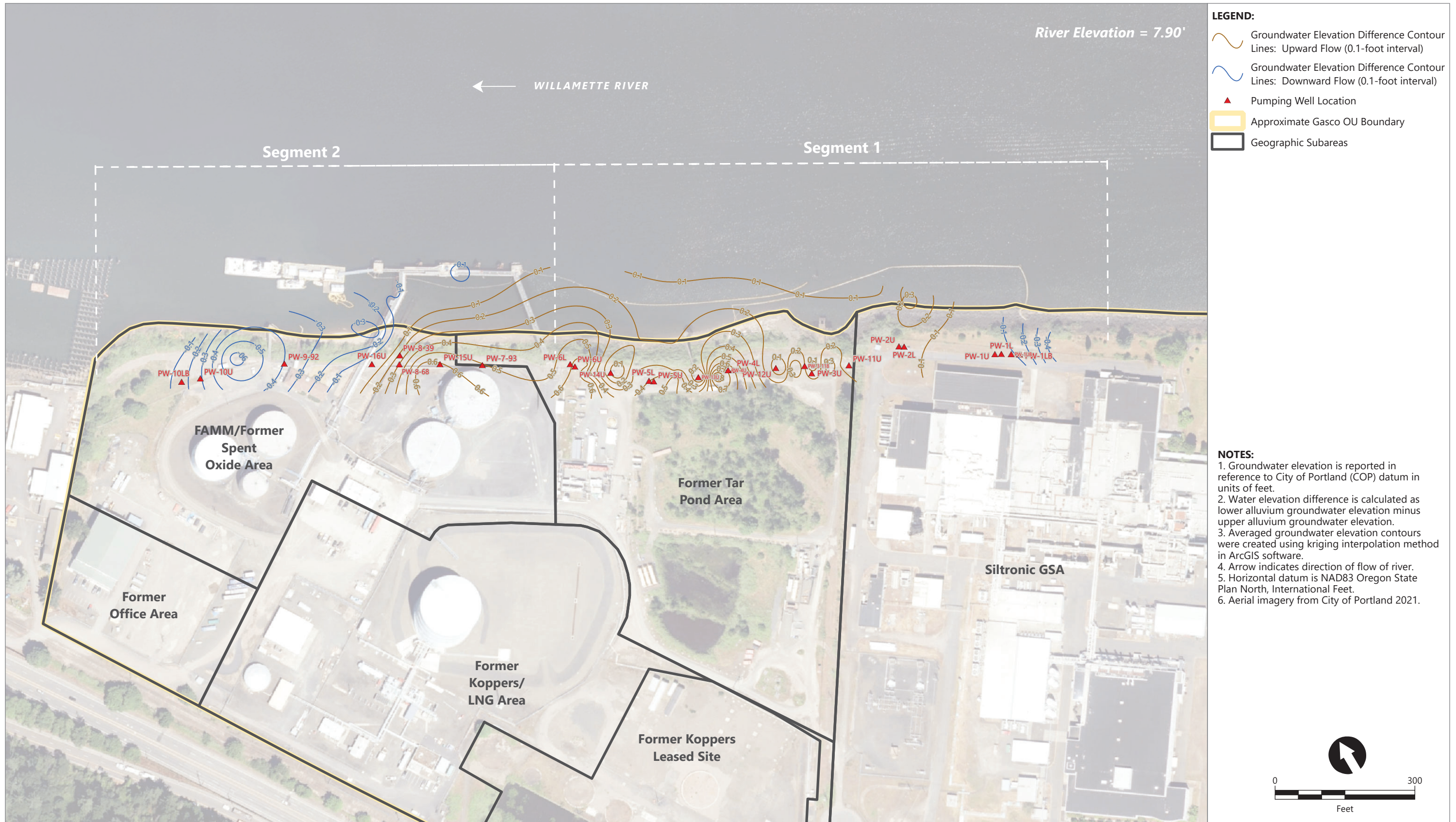
Figure 6.6
 Contours of Water Elevation Difference Between Upper and Lower Alluvium Using Serfes 3-Day Rolling Averages From 3/24/2023-3/26/2023

NWN Gasco Site
 Portland, Oregon



Publish Date: 2023/08/07, 1:37 PM | User: cgardner
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Figure 6.7
Contours of Water Elevation Difference Between Upper and Lower Alluvium Using Serfes 3-Day Rolling Averages From 4/11/2023-4/13/2023

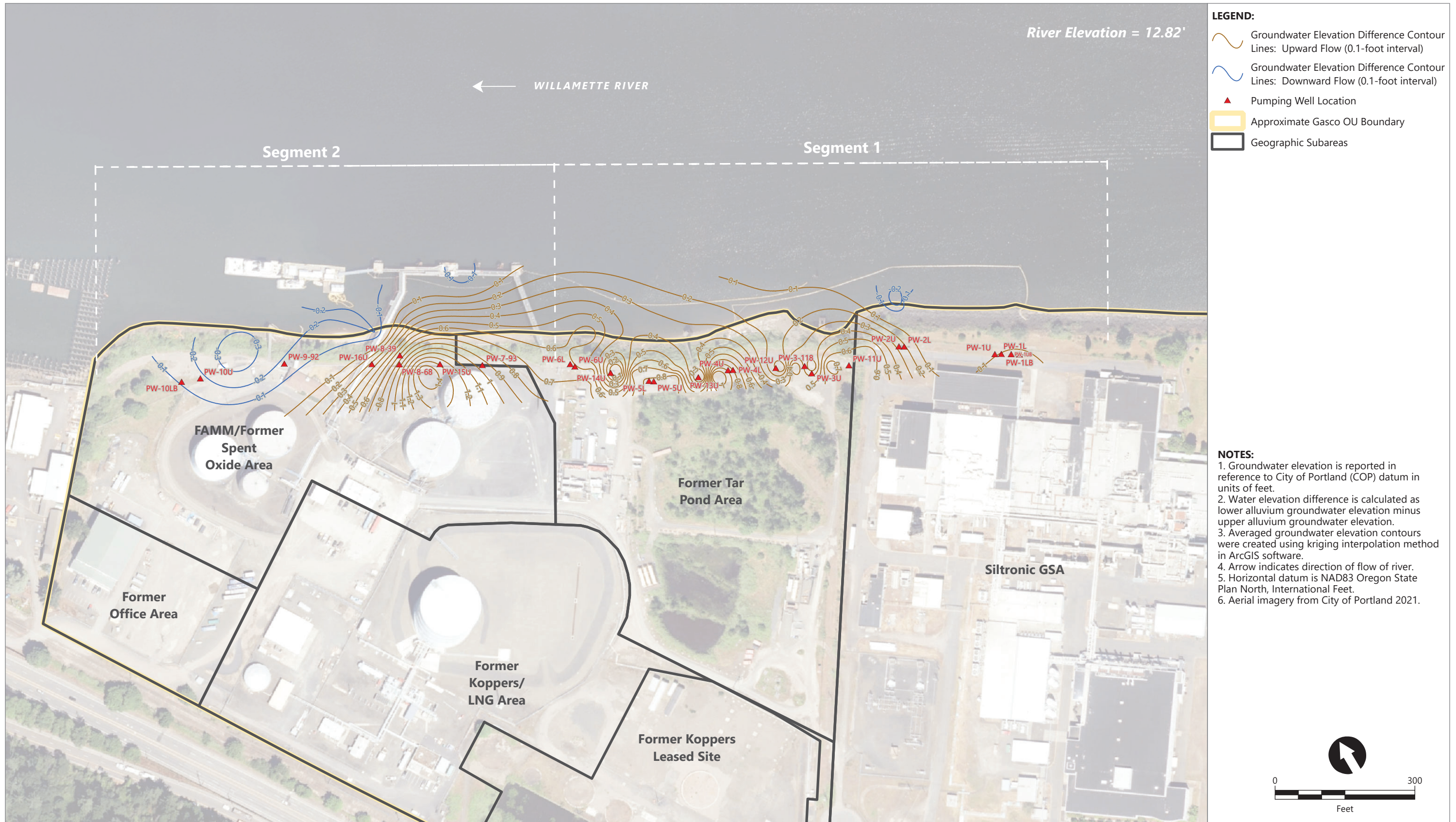


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Figure 6.8
Contours of Water Elevation Difference Between Upper and Lower Alluvium Using Serfes 3-Day Rolling Averages From 4/24/2023-4/26/2023

NWN Gasco Site
 Portland, Oregon

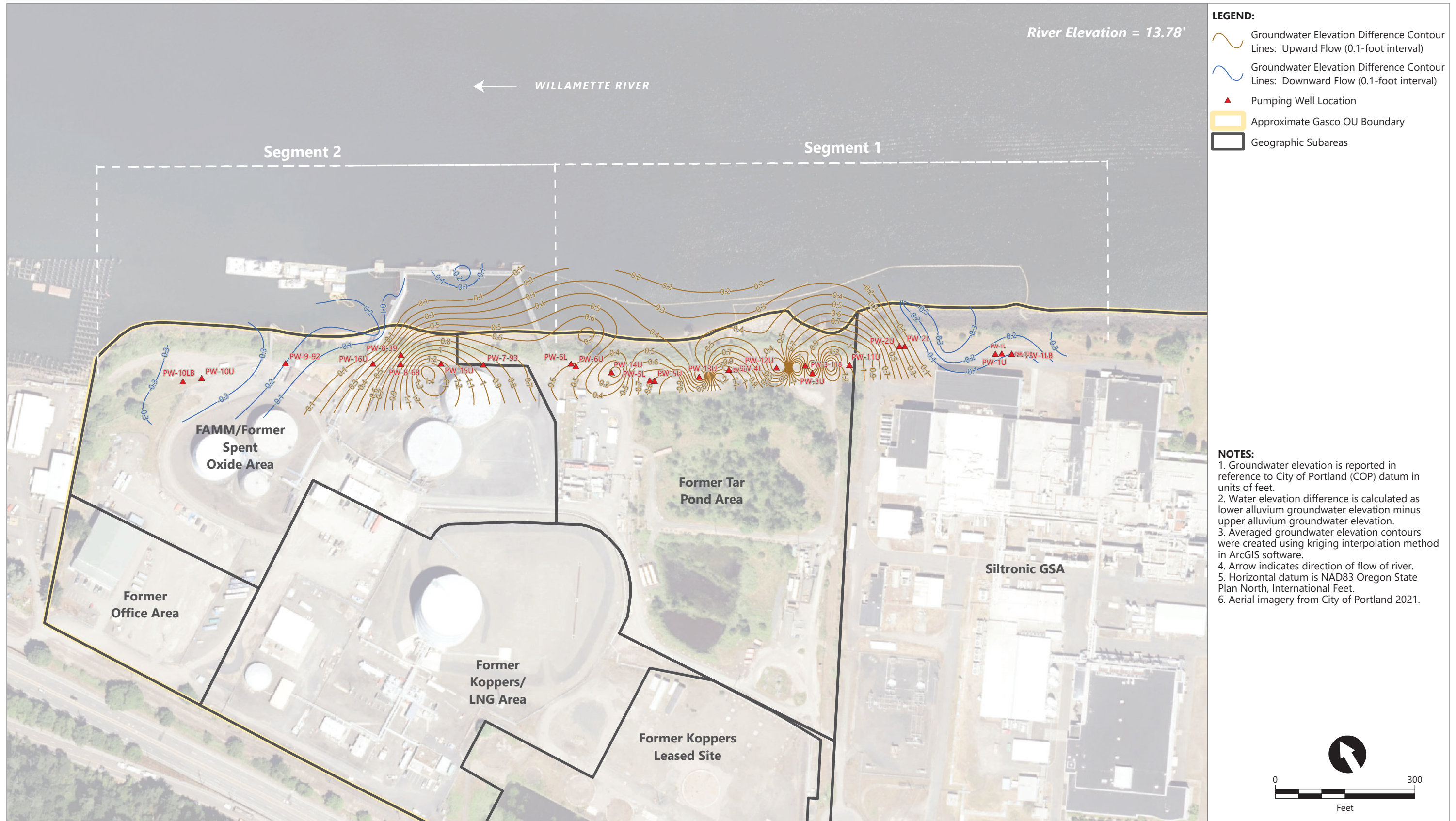


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Figure 6.9
Contours of Water Elevation Difference Between Upper and Lower Alluvium Using Serfes 3-Day Rolling Averages From 5/11/2023-5/13/2023

NWN Gasco Site
 Portland, Oregon



LEGEND:

- Groundwater Elevation Difference Contour Lines: Upward Flow (0.1-foot interval)
- Groundwater Elevation Difference Contour Lines: Downward Flow (0.1-foot interval)
- Pumping Well Location
- Approximate Gasco OU Boundary
- Geographic Subareas

NOTES:

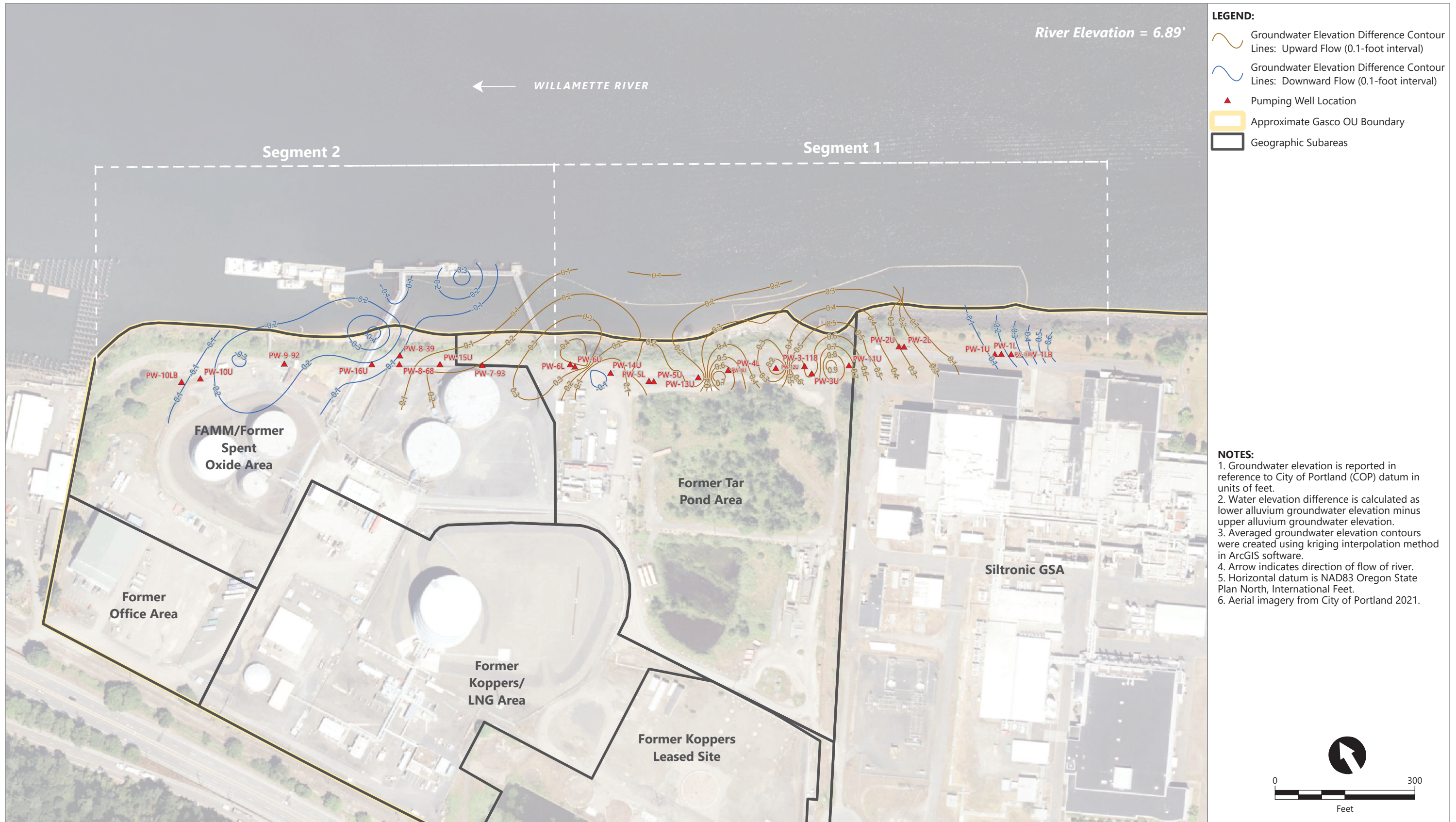
1. Groundwater elevation is reported in reference to City of Portland (COP) datum in units of feet.
2. Water elevation difference is calculated as lower alluvium groundwater elevation minus upper alluvium groundwater elevation.
3. Averaged groundwater elevation contours were created using kriging interpolation method in ArcGIS software.
4. Arrow indicates direction of flow of river.
5. Horizontal datum is NAD83 Oregon State Plan North, International Feet.
6. Aerial imagery from City of Portland 2021.

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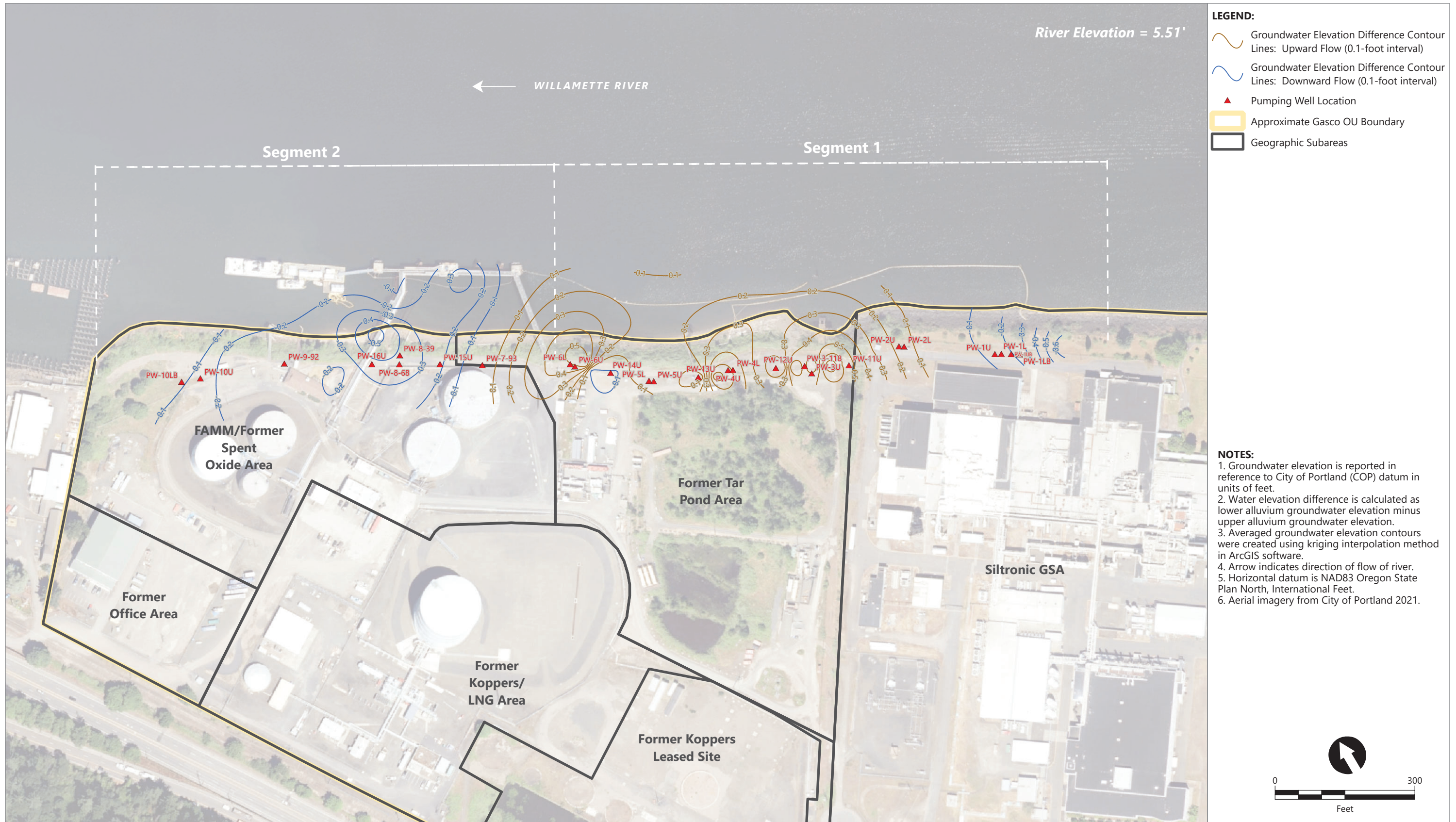
Figure 6.10
Contours of Water Elevation Difference Between Upper and Lower Alluvium Using Serfes 3-Day Rolling Averages From 5/24/2023-5/26/2023

NWN Gasco Site
 Portland, Oregon



Publish Date: 2023/08/09, 12:31 PM | User: cgardner
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Figure 6.11
Contours of Water Elevation Difference Between Upper and Lower Alluvium Using Serfes 3-Day Rolling Averages From 6/11/2023-6/13/2023



LEGEND:

- Groundwater Elevation Difference Contour Lines: Upward Flow (0.1-foot interval)
- Groundwater Elevation Difference Contour Lines: Downward Flow (0.1-foot interval)
- Pumping Well Location
- Approximate Gasco OU Boundary
- Geographic Subareas

NOTES:

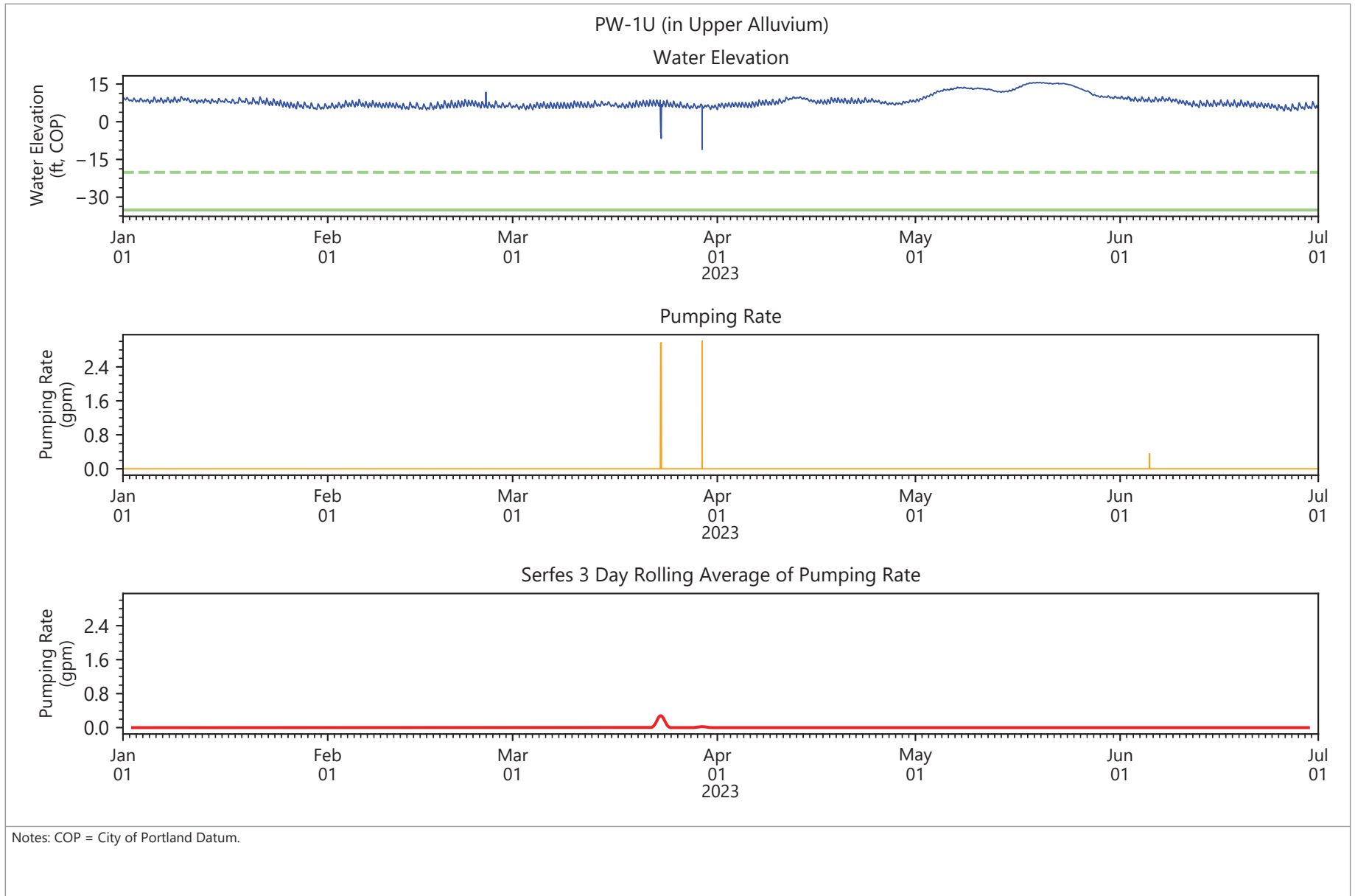
1. Groundwater elevation is reported in reference to City of Portland (COP) datum in units of feet.
2. Water elevation difference is calculated as lower alluvium groundwater elevation minus upper alluvium groundwater elevation.
3. Averaged groundwater elevation contours were created using kriging interpolation method in ArcGIS software.
4. Arrow indicates direction of flow of river.
5. Horizontal datum is NAD83 Oregon State Plan North, International Feet.
6. Aerial imagery from City of Portland 2021.

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Figure 6.12
Contours of Water Elevation Difference Between Upper and Lower Alluvium Using Serfes 3-Day Rolling Averages From 6/24/2023-6/26/2023

NWN Gasco Site
 Portland, Oregon

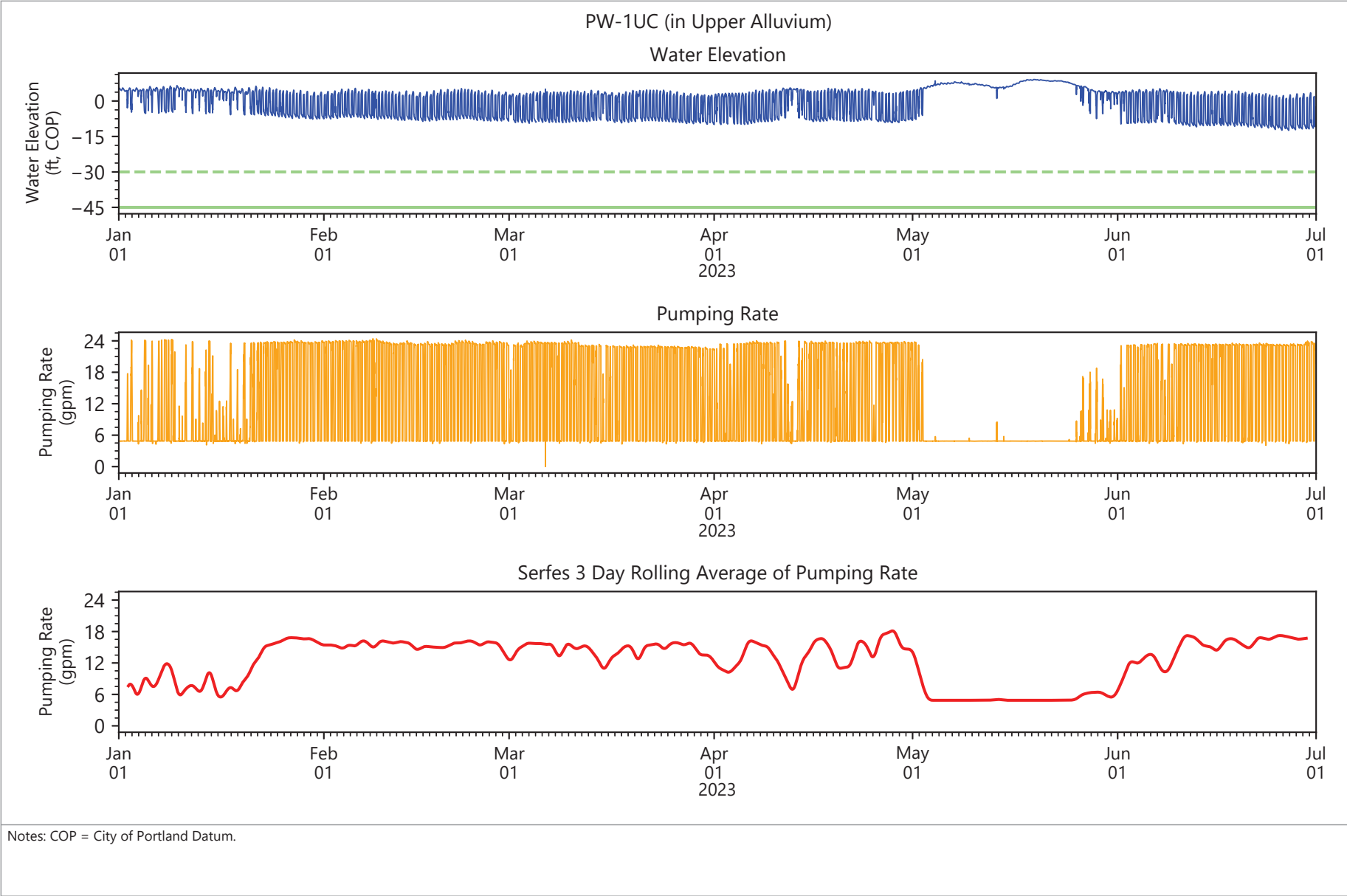


Publish Date: 07/21/2023 12:48 PM | User: COLODSG1
 C:\Users\Public\Documents\Python_Scripts\Gasco_SC_DataPlots\elelevation_time_series_per6months_EQuIS.py



- Groundwater Elevation
- - - Top of Screen Elevation
- Bottom of Screen Elevation
- Pumping Rate: 15-min Data
- Pumping Rate: Serfes Averages

Figure 7.1
Groundwater Elevations and Pumping Rates at Pumping Wells
 NW Natural Gasco Site



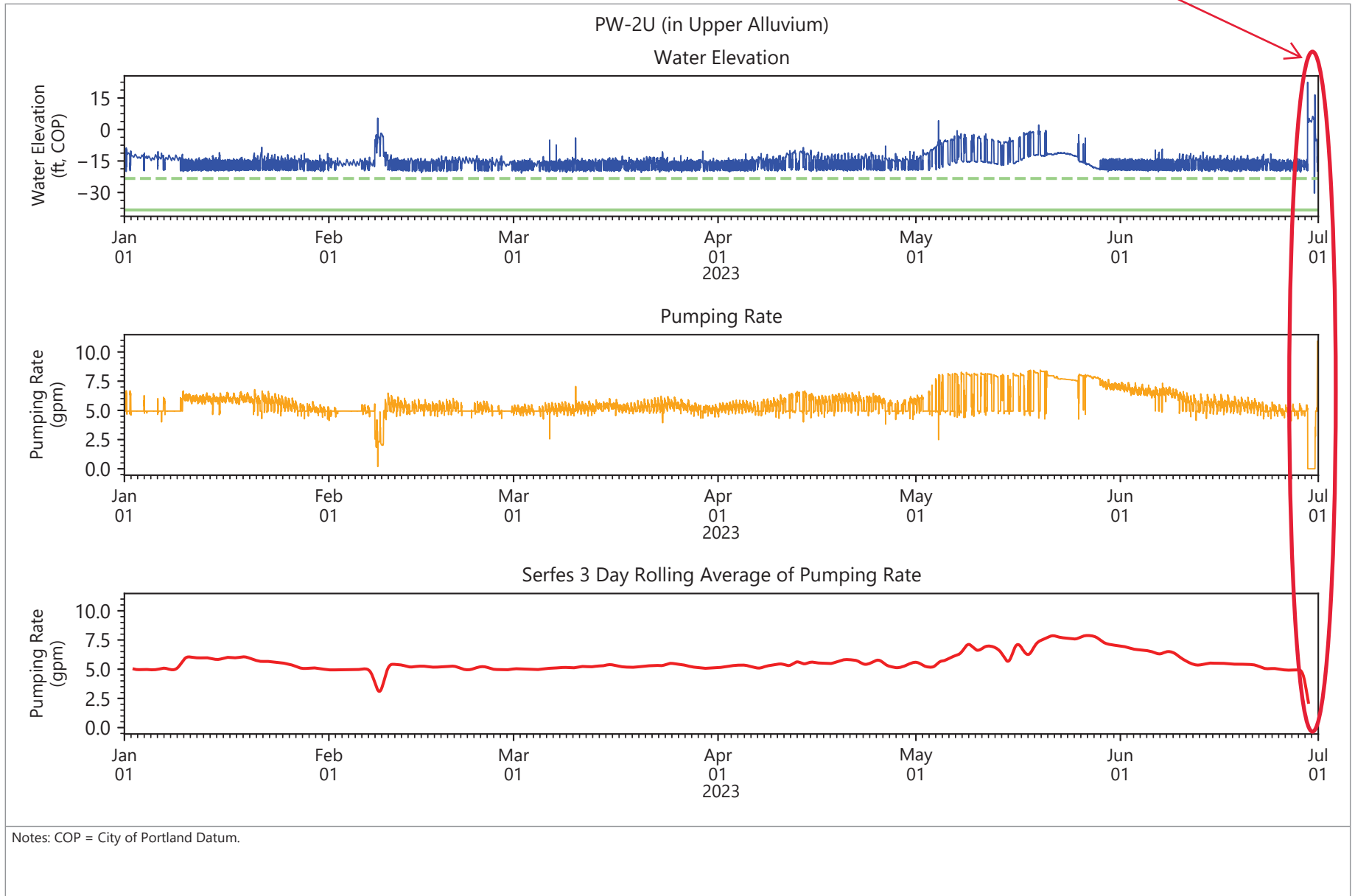
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- Groundwater Elevation
- - - Top of Screen Elevation
- Bottom of Screen Elevation
- Pumping Rate: 15-min Data
- Pumping Rate: Serfes Averages

Figure 7.2
Groundwater Elevations and Pumping Rates at Pumping Wells
 NW Natural Gasco Site

Well Screen Maintenance 6/29



Notes: COP = City of Portland Datum.

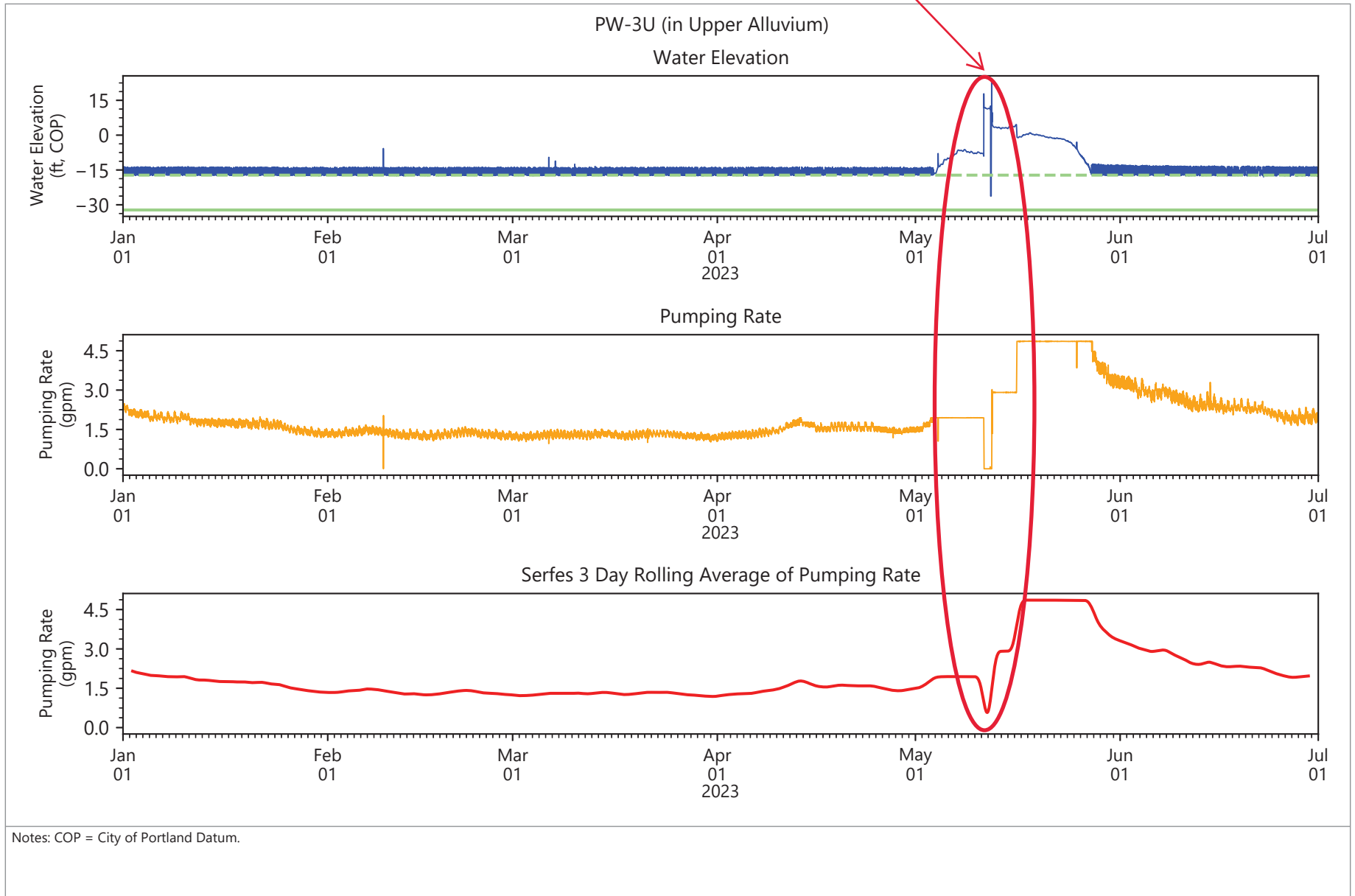
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- Groundwater Elevation
- - - Top of Screen Elevation
- Bottom of Screen Elevation
- Pumping Rate: 15-min Data
- Pumping Rate: Serfes Averages

Figure 7.3
Groundwater Elevations and Pumping Rates at Pumping Wells
NW Natural Gasco Site

Well Screen Maintenance 5/11



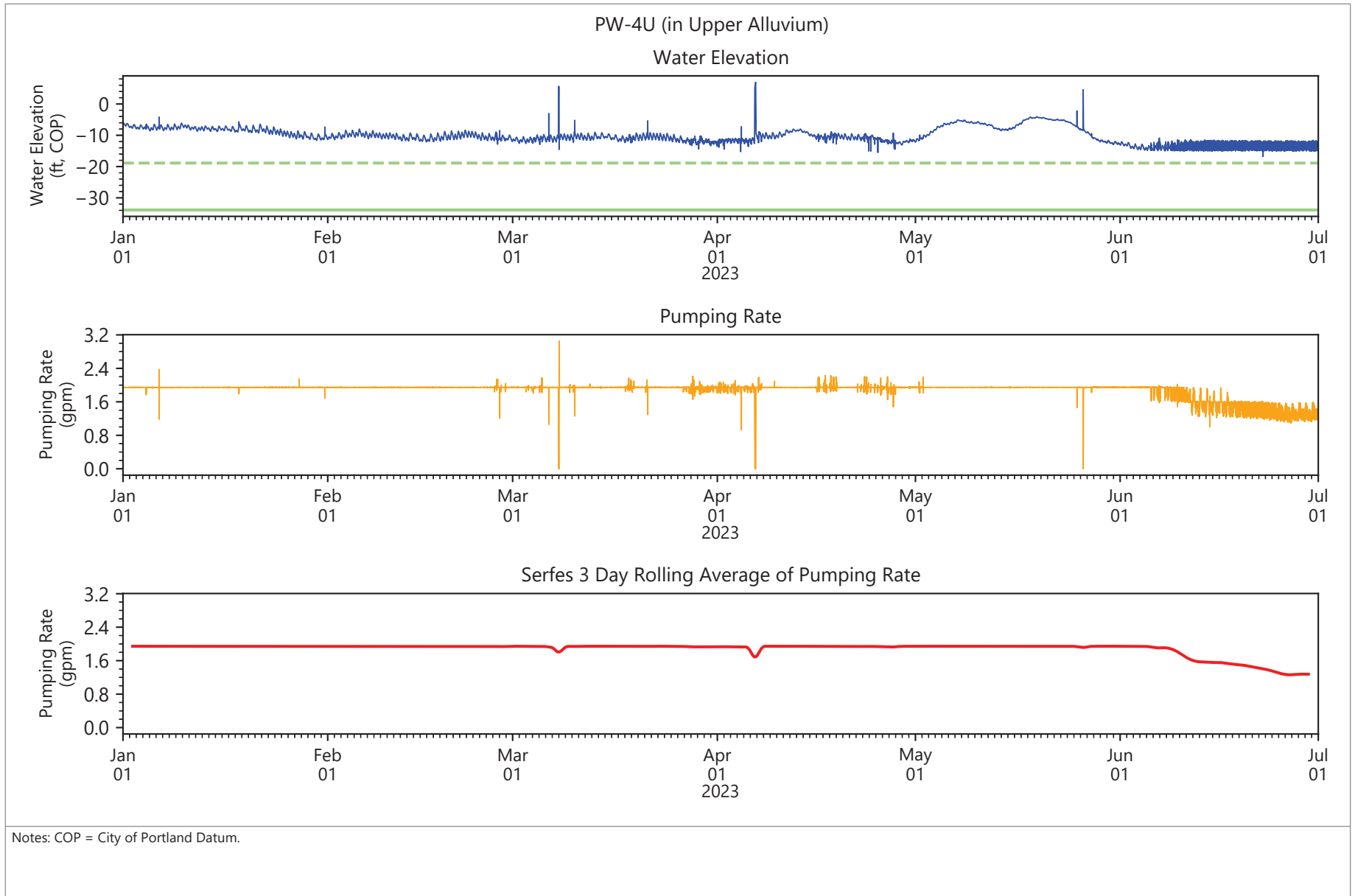
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- Groundwater Elevation
- - - Top of Screen Elevation
- Bottom of Screen Elevation
- Pumping Rate: 15-min Data
- Pumping Rate: Serfes Averages

Figure 7.4
Groundwater Elevations and Pumping Rates at Pumping Wells
NW Natural Gasco Site



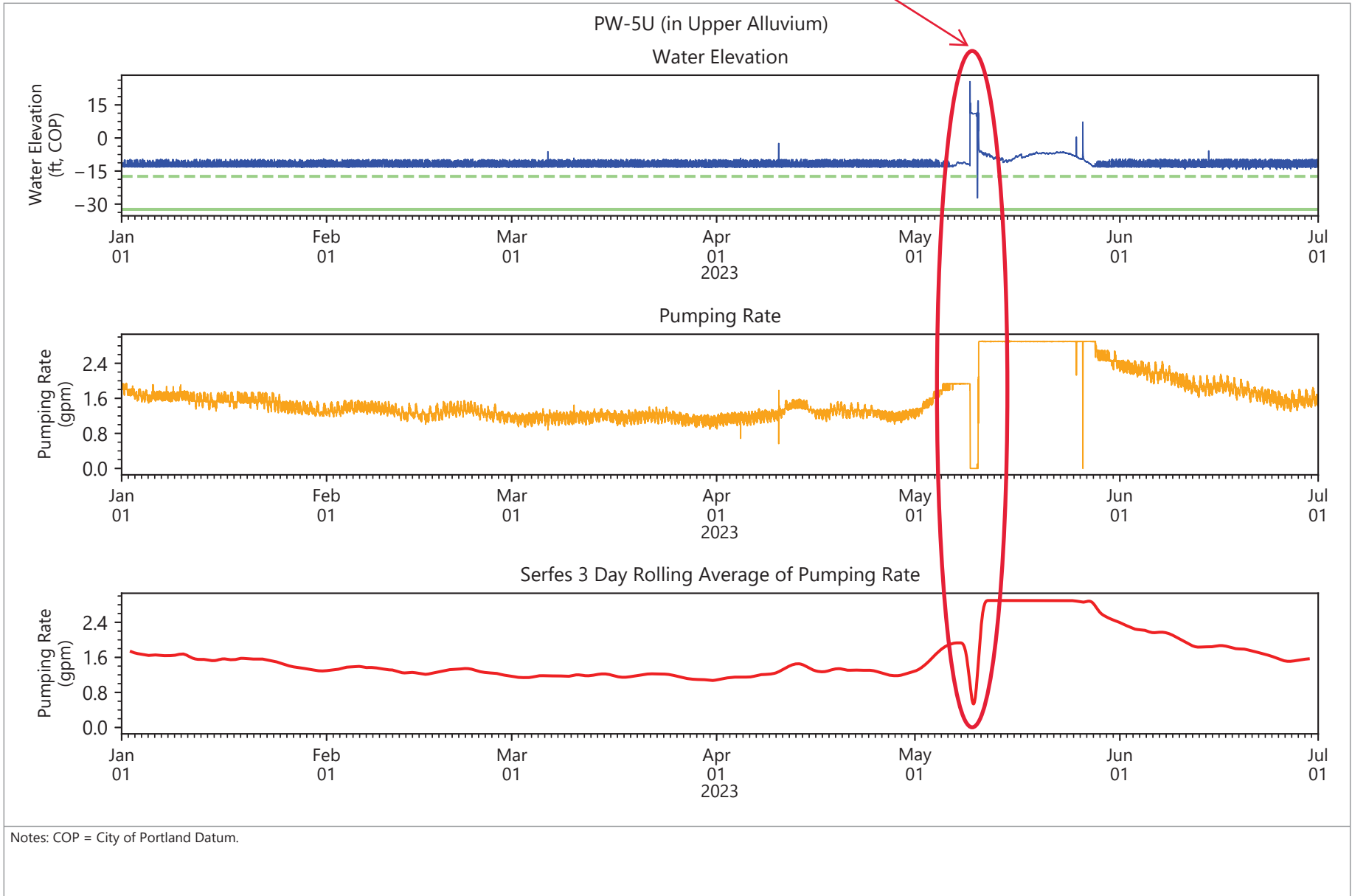
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- Groundwater Elevation
- - - Top of Screen Elevation
- Bottom of Screen Elevation
- Pumping Rate: 15-min Data
- Pumping Rate: Serfes Averages

Figure 7.5
Groundwater Elevations and Pumping Rates at Pumping Wells
 NW Natural Gasco Site

Well Screen Maintenance 5/9



Notes: COP = City of Portland Datum.

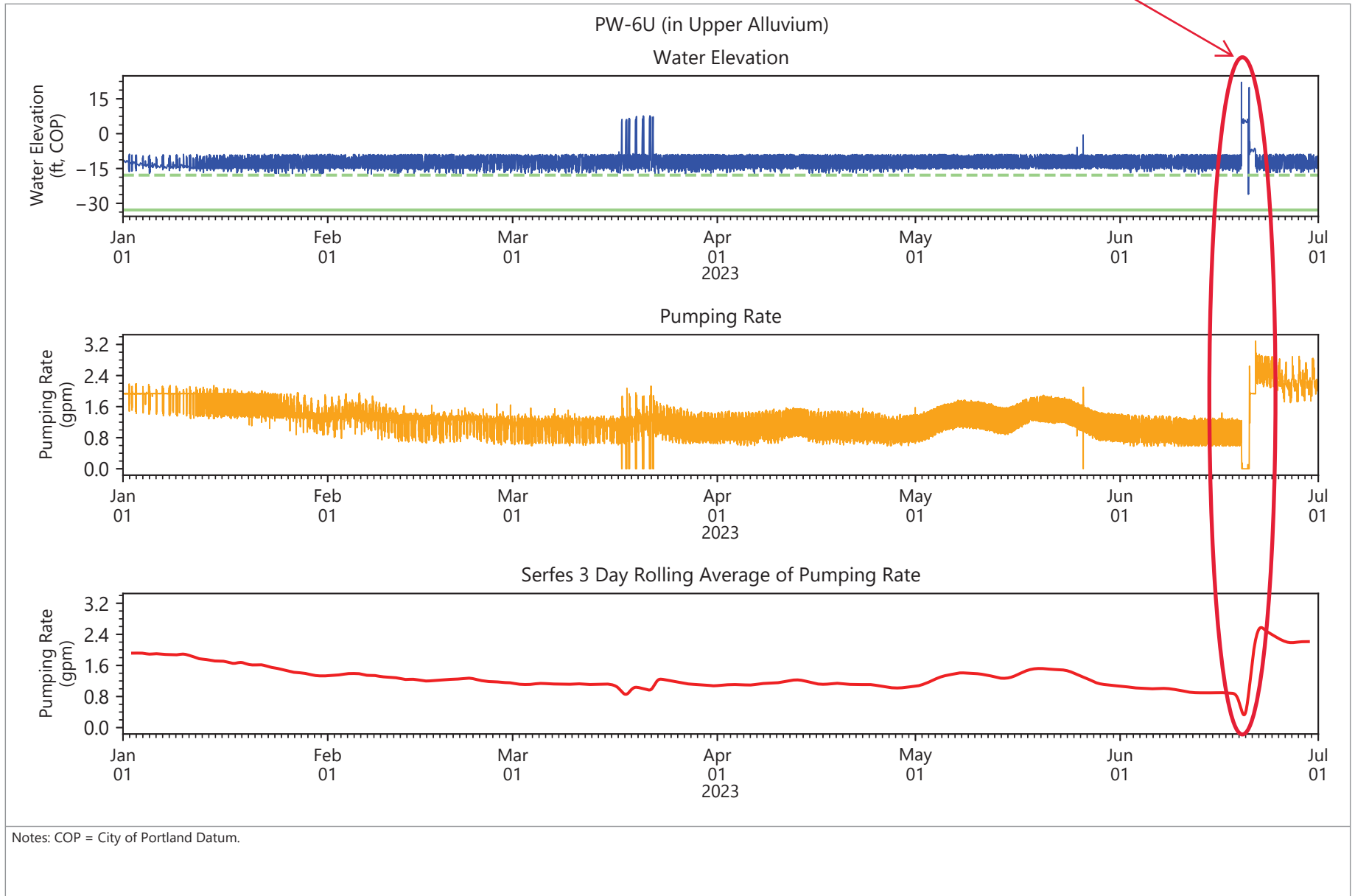
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- Groundwater Elevation
- - - Top of Screen Elevation
- Bottom of Screen Elevation
- Pumping Rate: 15-min Data
- Pumping Rate: Serfes Averages

Figure 7.6
Groundwater Elevations and Pumping Rates at Pumping Wells
NW Natural Gasco Site

Well Screen Maintenance 6/21



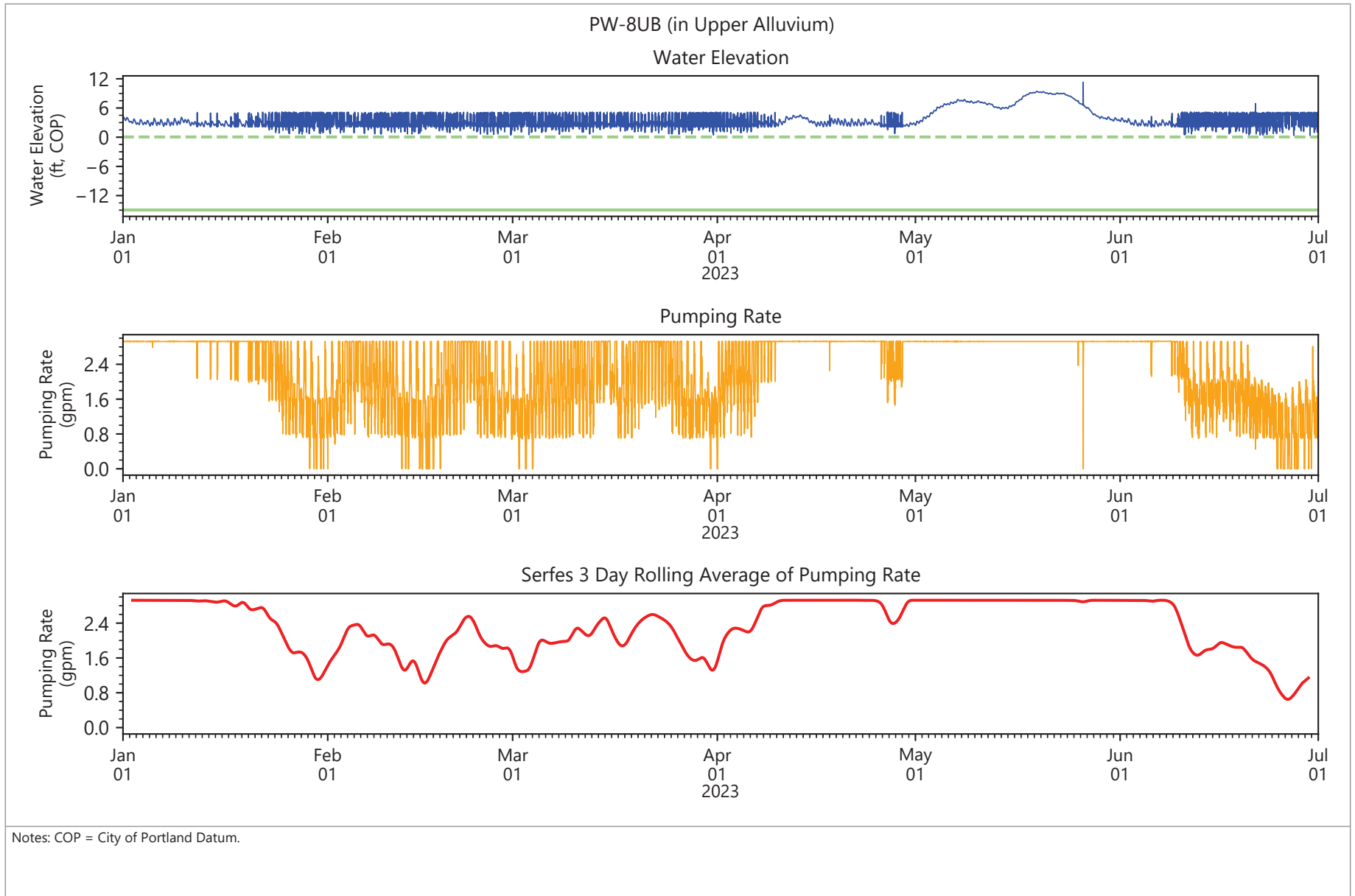
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- Groundwater Elevation
- - - Top of Screen Elevation
- Bottom of Screen Elevation
- Pumping Rate: 15-min Data
- Pumping Rate: Serfes Averages

Figure 7.7
Groundwater Elevations and Pumping Rates at Pumping Wells
NW Natural Gasco Site



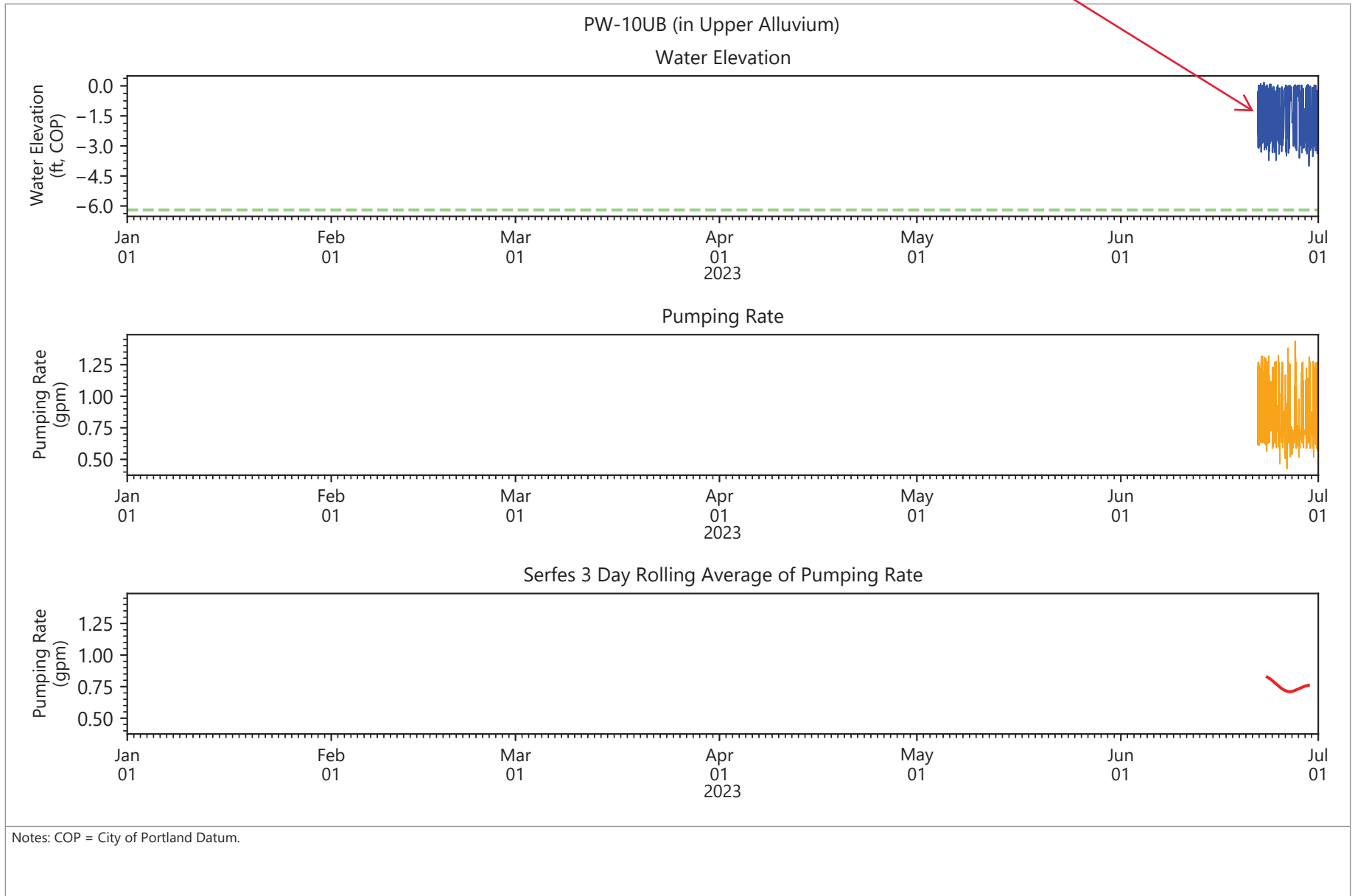
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- Groundwater Elevation
- Top of Screen Elevation
- Bottom of Screen Elevation
- Pumping Rate: 15-min Data
- Pumping Rate: Serfes Averages

Figure 7.8
Groundwater Elevations and Pumping Rates at Pumping Wells
 NW Natural Gasco Site

PW-10UB online 6/21



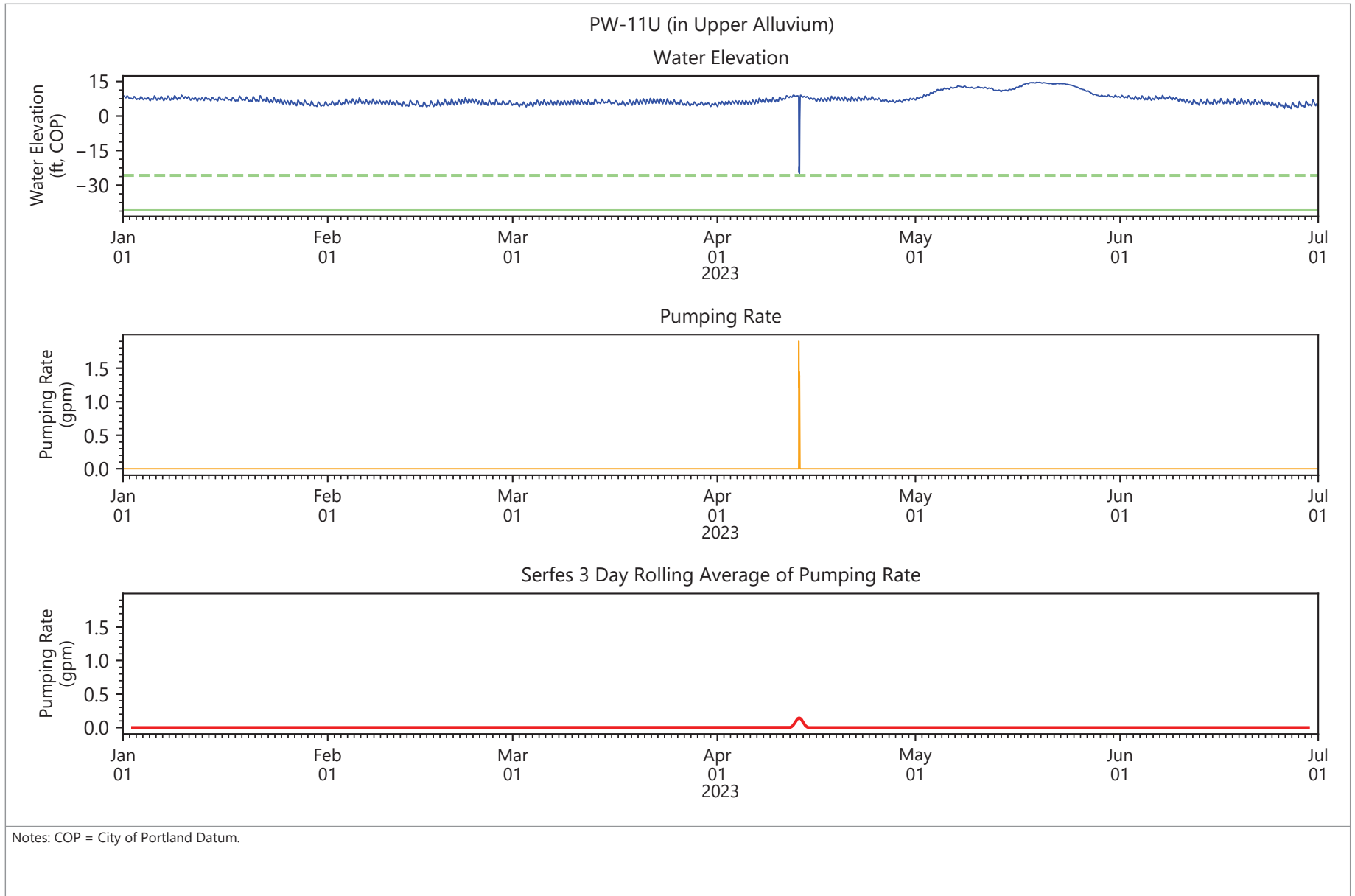
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- Groundwater Elevation
- - - Top of Screen Elevation
- Bottom of Screen Elevation
- Pumping Rate: 15-min Data
- Pumping Rate: Serfes Averages

Figure 7.9
Groundwater Elevations and Pumping Rates at Pumping Wells
NW Natural Gasco Site



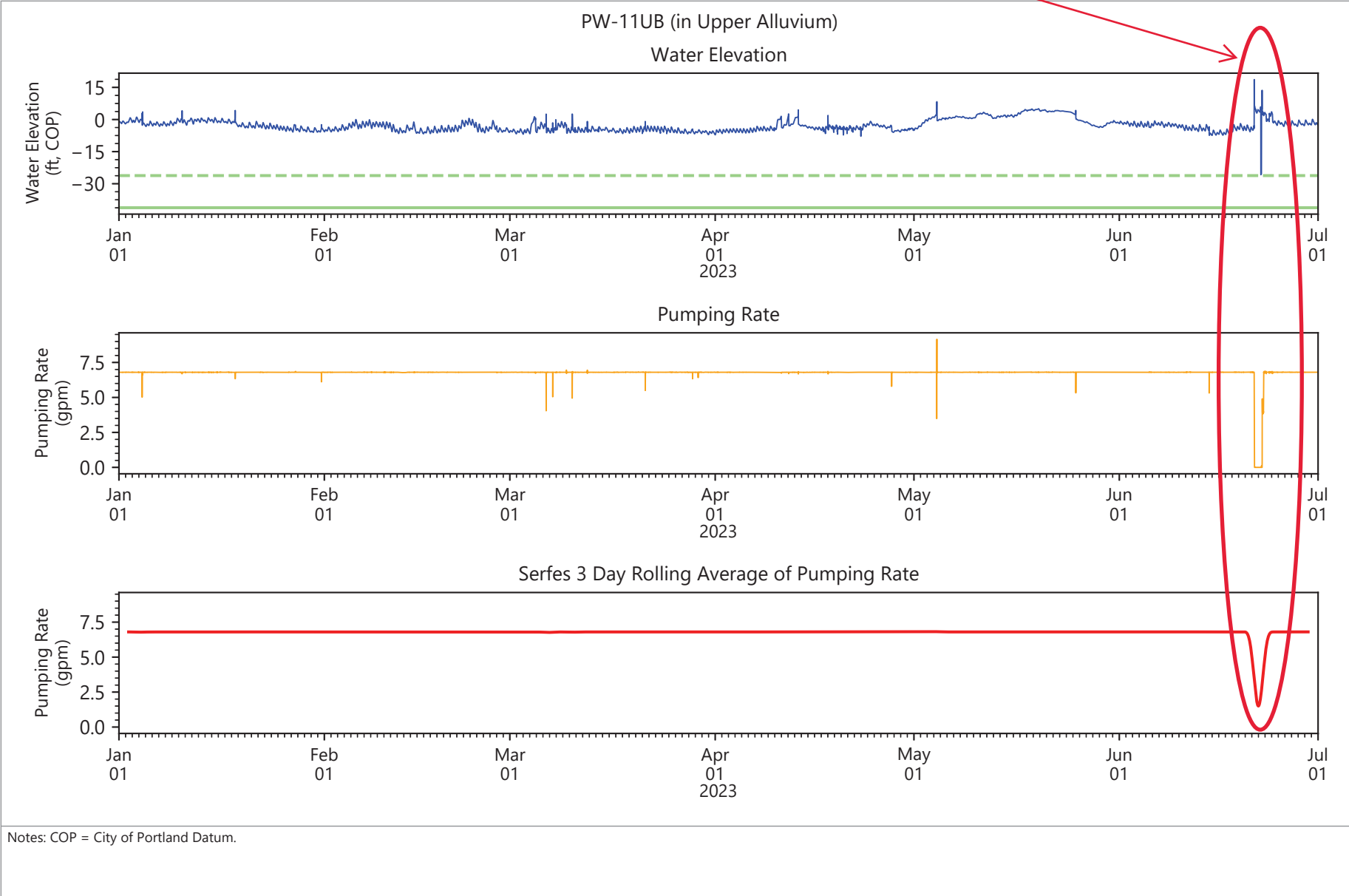
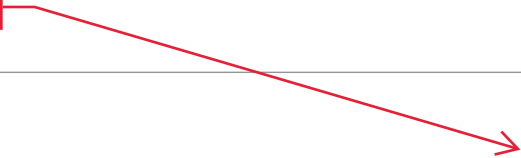
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- Groundwater Elevation
- - - Top of Screen Elevation
- Bottom of Screen Elevation
- Pumping Rate: 15-min Data
- Pumping Rate: Serfes Averages

Figure 7.10
Groundwater Elevations and Pumping Rates at Pumping Wells
 NW Natural Gasco Site

Well Screen Maintenance 6/21



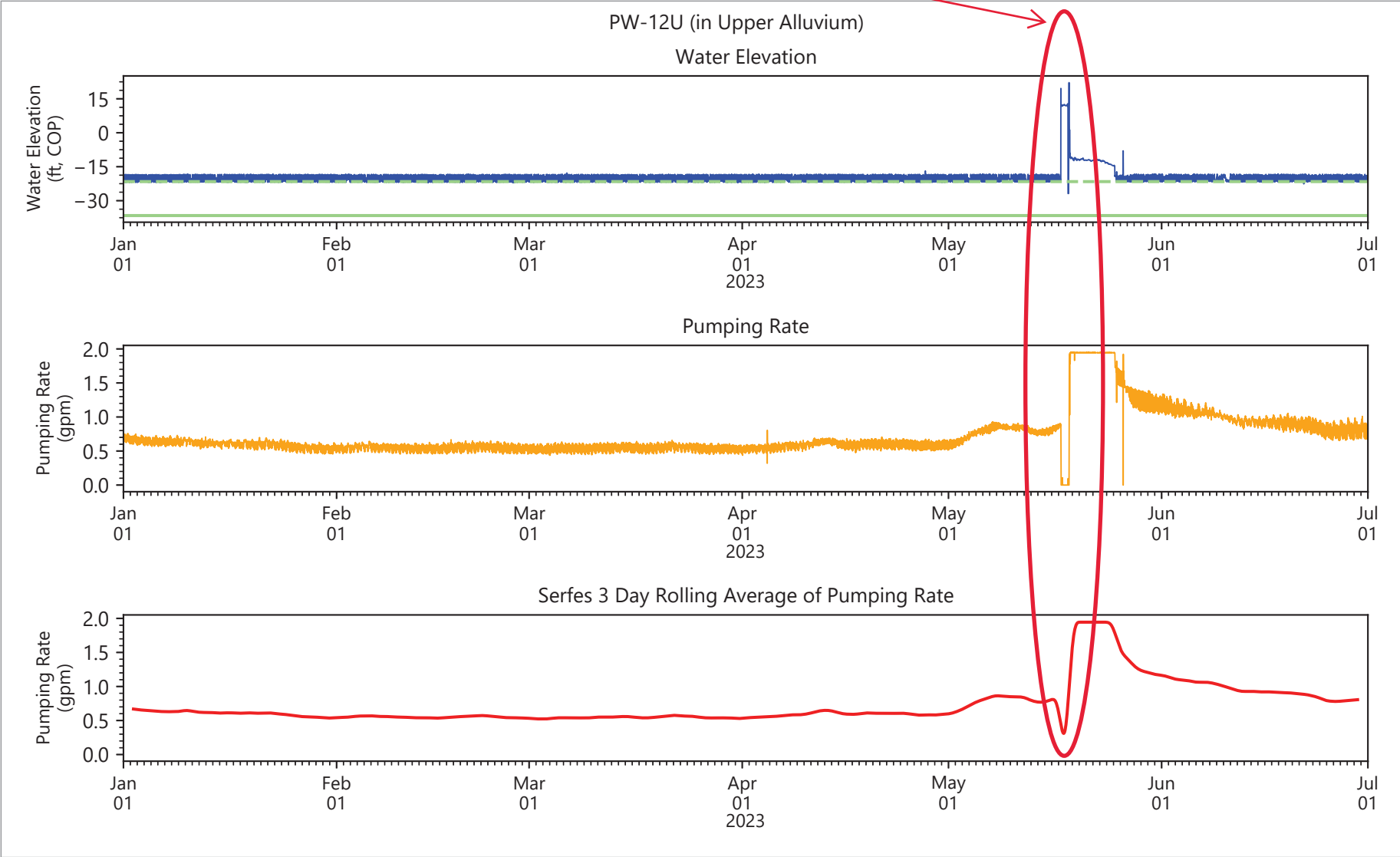
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- Groundwater Elevation
- Top of Screen Elevation
- Bottom of Screen Elevation
- Pumping Rate: 15-min Data
- Pumping Rate: Serfes Averages

Figure 7.11
Groundwater Elevations and Pumping Rates at Pumping Wells
NW Natural Gasco Site

Well Screen Maintenance 5/17



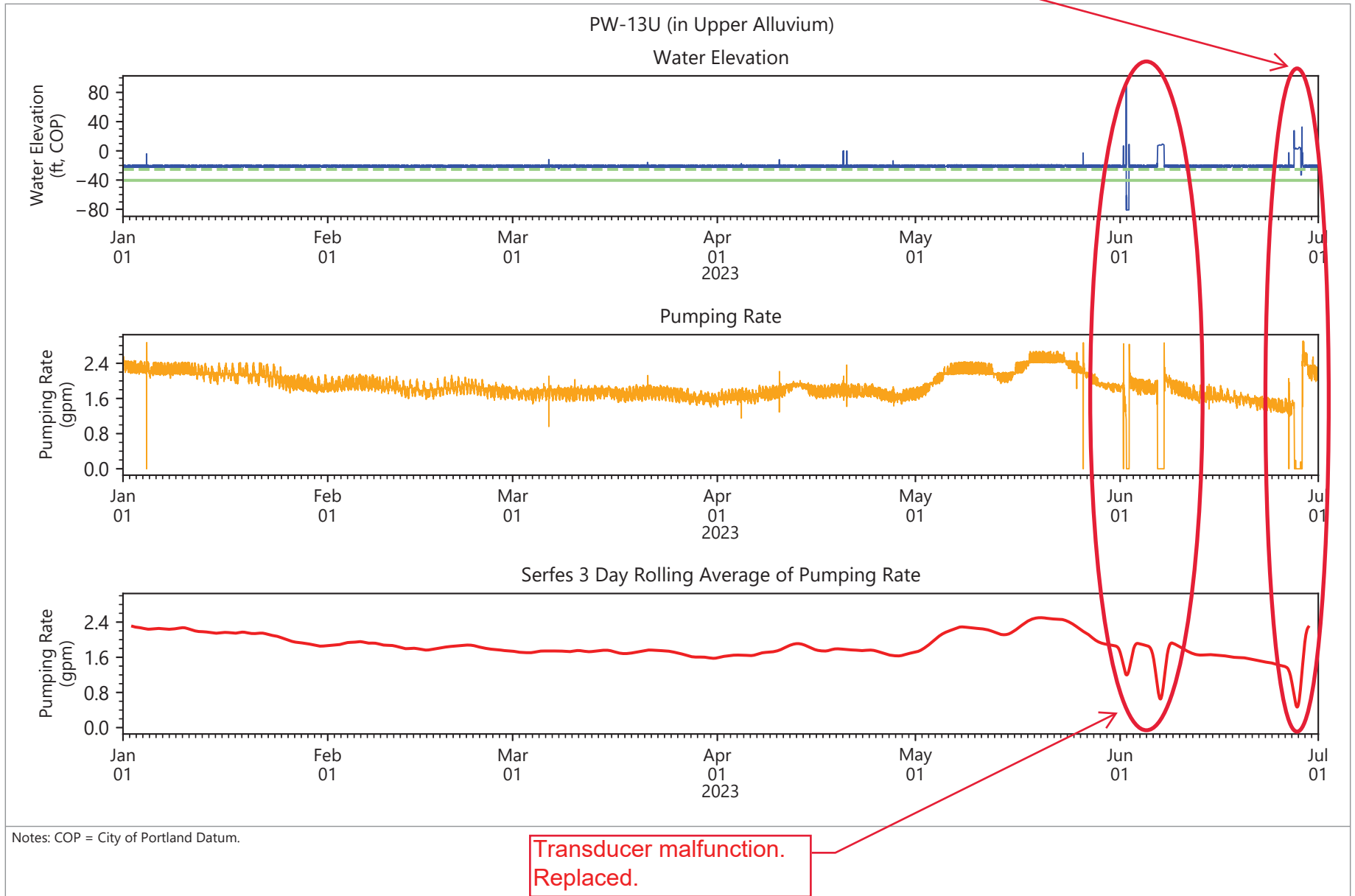
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- Groundwater Elevation
- Top of Screen Elevation
- Bottom of Screen Elevation
- Pumping Rate: 15-min Data
- Pumping Rate: Serfes Averages

Figure 7.12
Groundwater Elevations and Pumping Rates at Pumping Wells
NW Natural Gasco Site

Well Screen Maintenance 6/27

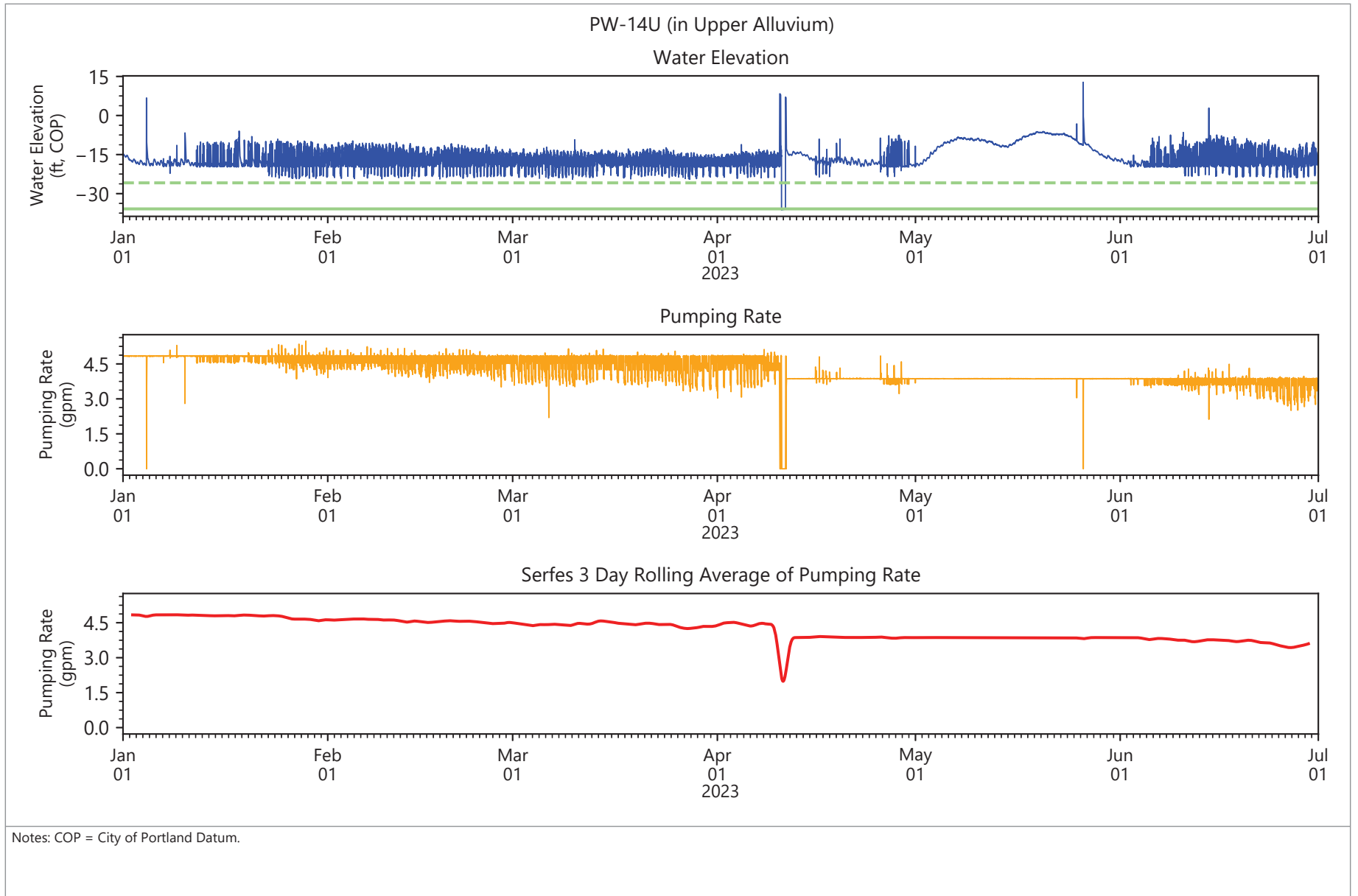


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- Groundwater Elevation
- Top of Screen Elevation
- Bottom of Screen Elevation
- Pumping Rate: 15-min Data
- Pumping Rate: Serfes Averages

Figure 7.13
Groundwater Elevations and Pumping Rates at Pumping Wells
NW Natural Gasco Site

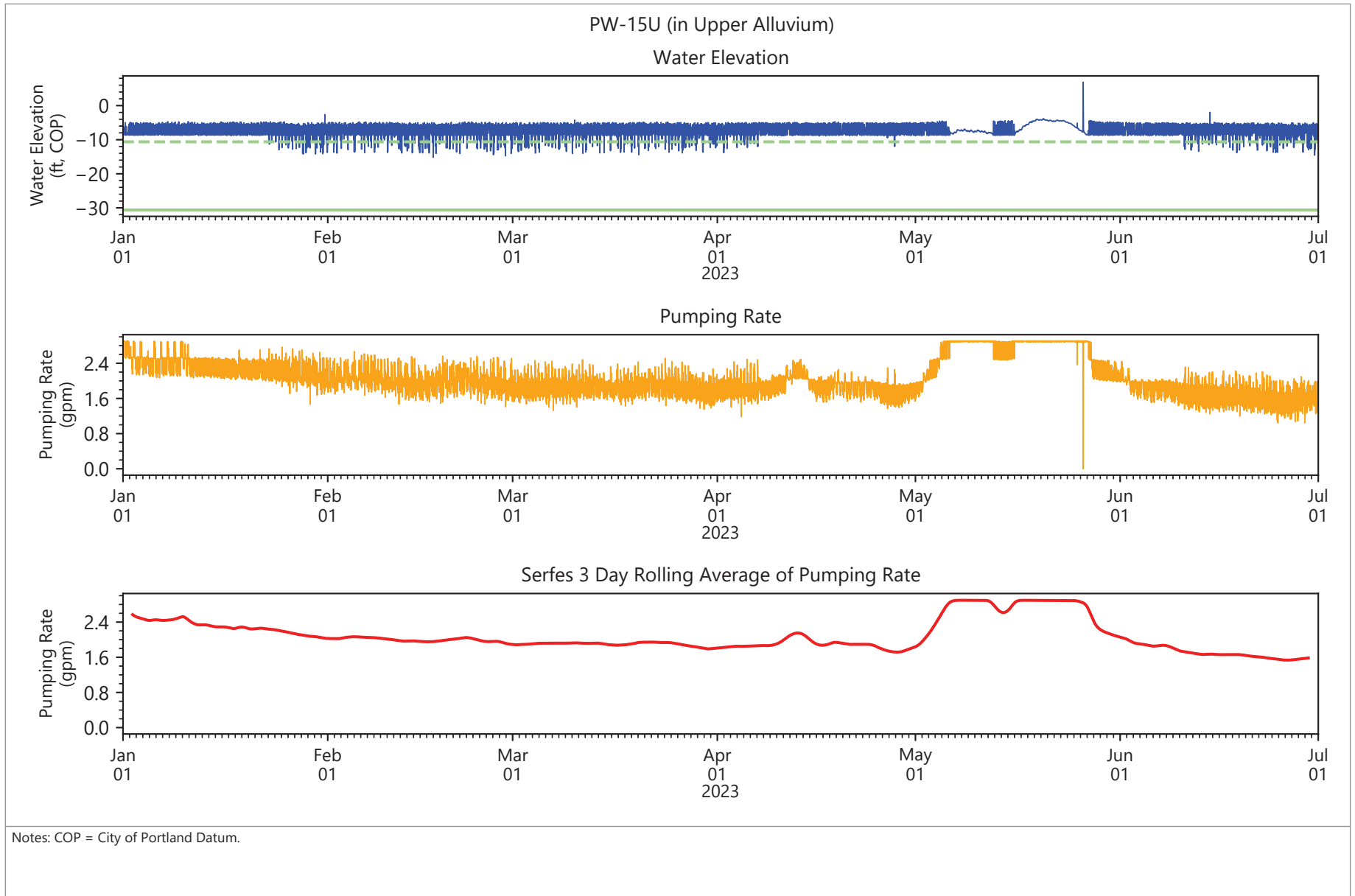


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- Groundwater Elevation
- - - Top of Screen Elevation
- Bottom of Screen Elevation
- Pumping Rate: 15-min Data
- Pumping Rate: Serfes Averages

Figure 7.14
Groundwater Elevations and Pumping Rates at Pumping Wells
 NW Natural Gasco Site



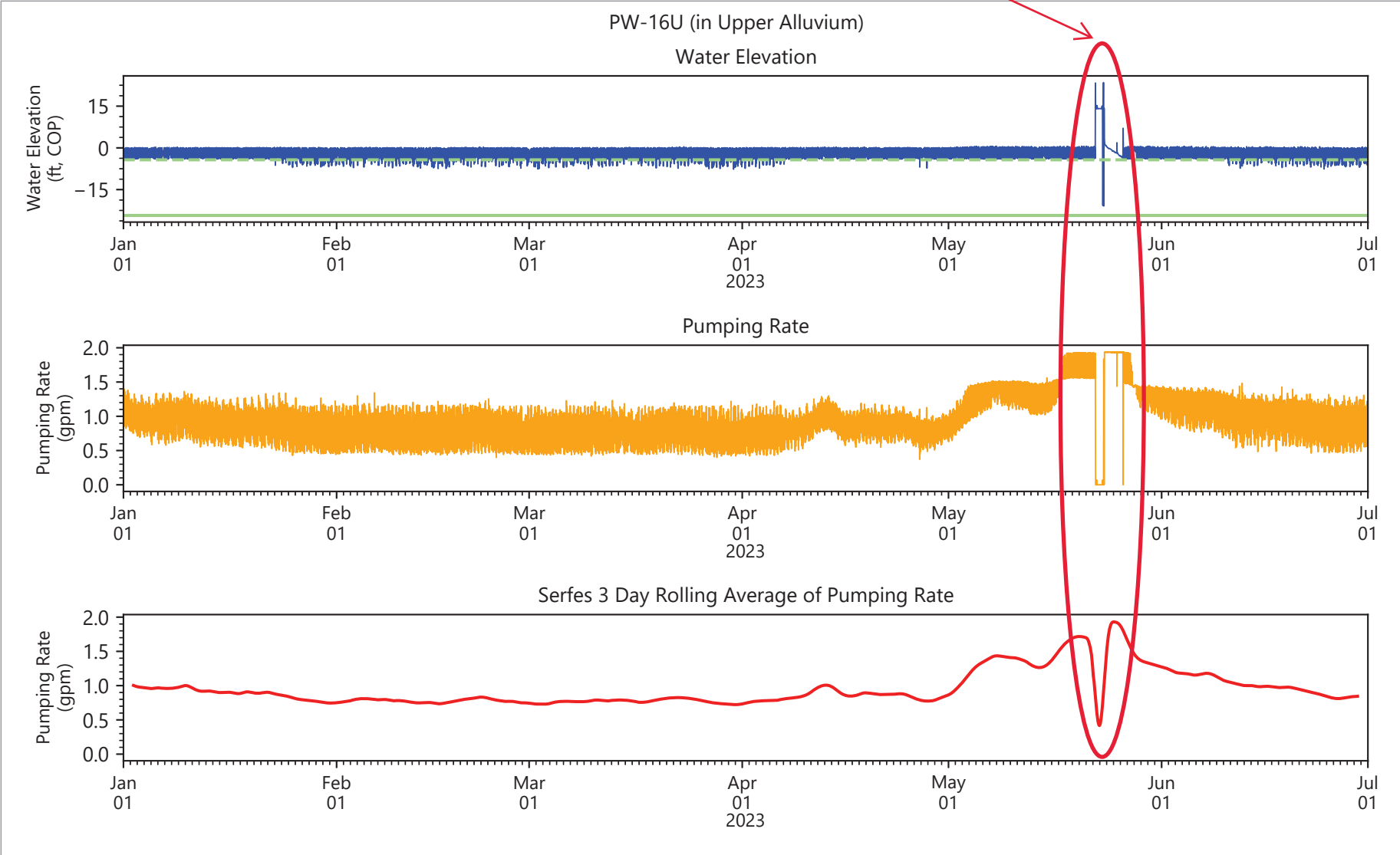
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- Groundwater Elevation
- - - Top of Screen Elevation
- Bottom of Screen Elevation
- Pumping Rate: 15-min Data
- Pumping Rate: Serfes Averages

Figure 7.15
Groundwater Elevations and Pumping Rates at Pumping Wells
 NW Natural Gasco Site

Well Screen Maintenance 5/22



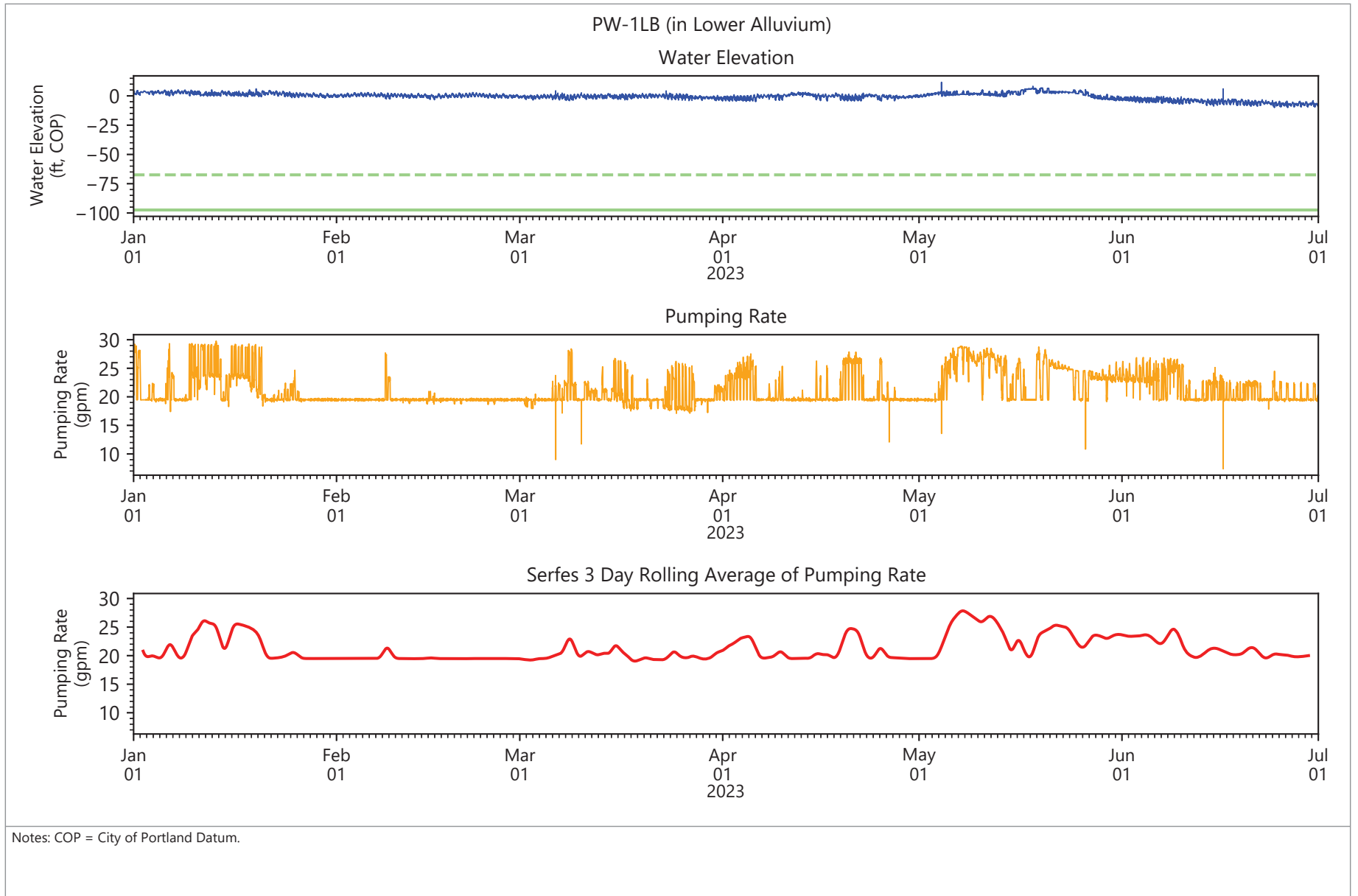
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- Groundwater Elevation
- - - Top of Screen Elevation
- Bottom of Screen Elevation
- Pumping Rate: 15-min Data
- Pumping Rate: Serfes Averages

Figure 7.16
Groundwater Elevations and Pumping Rates at Pumping Wells
NW Natural Gasco Site



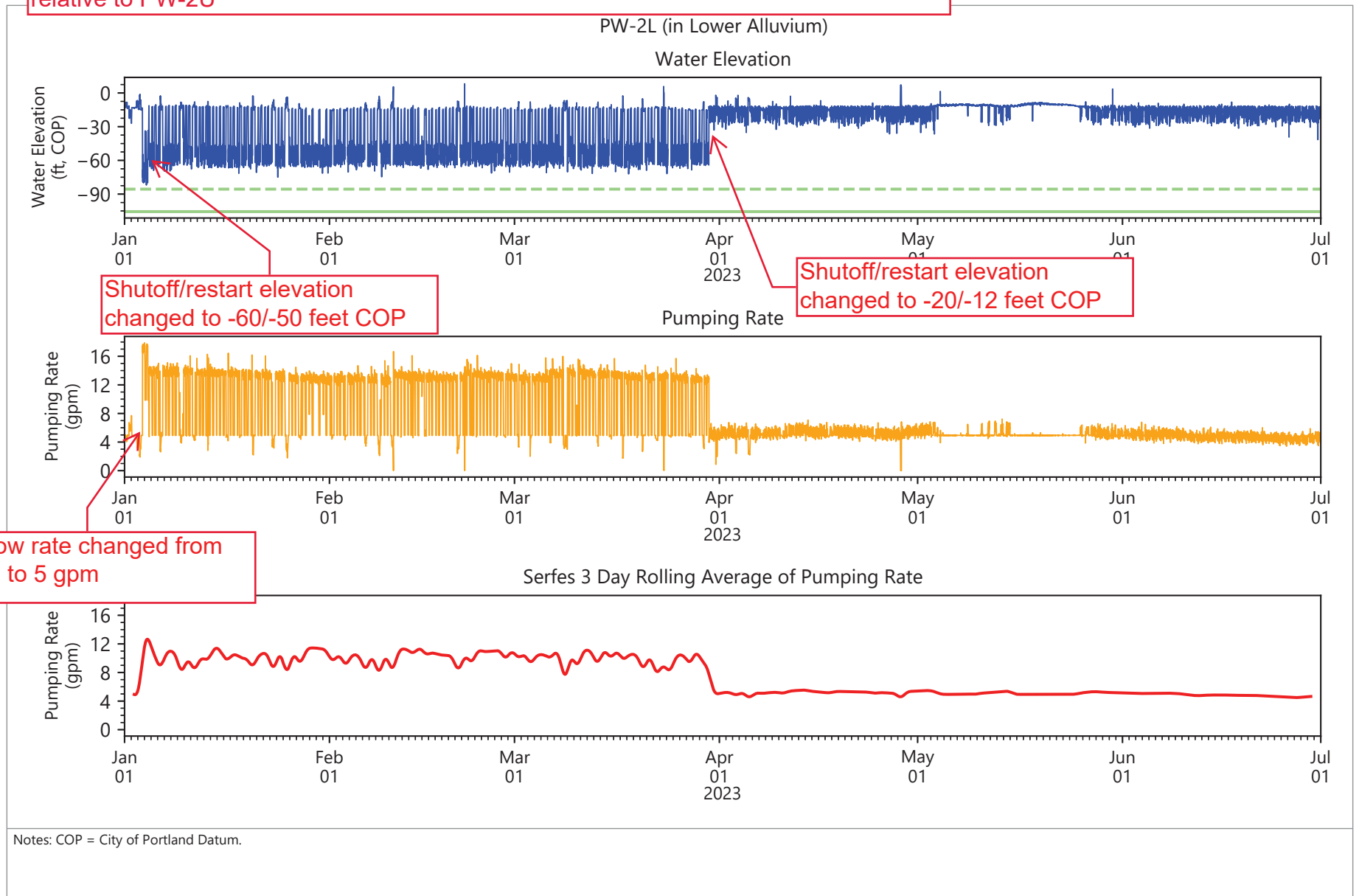
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- Groundwater Elevation
- - - Top of Screen Elevation
- Bottom of Screen Elevation
- Pumping Rate: 15-min Data
- Pumping Rate: Serfes Averages

Figure 7.17
Groundwater Elevations and Pumping Rates at Pumping Wells
 NW Natural Gasco Site

Operational changes were made to improve vertical gradients in the area of the PW-2U and PW-2L extraction well pair, effectively decreasing overall pumping from PW-2L relative to PW-2U

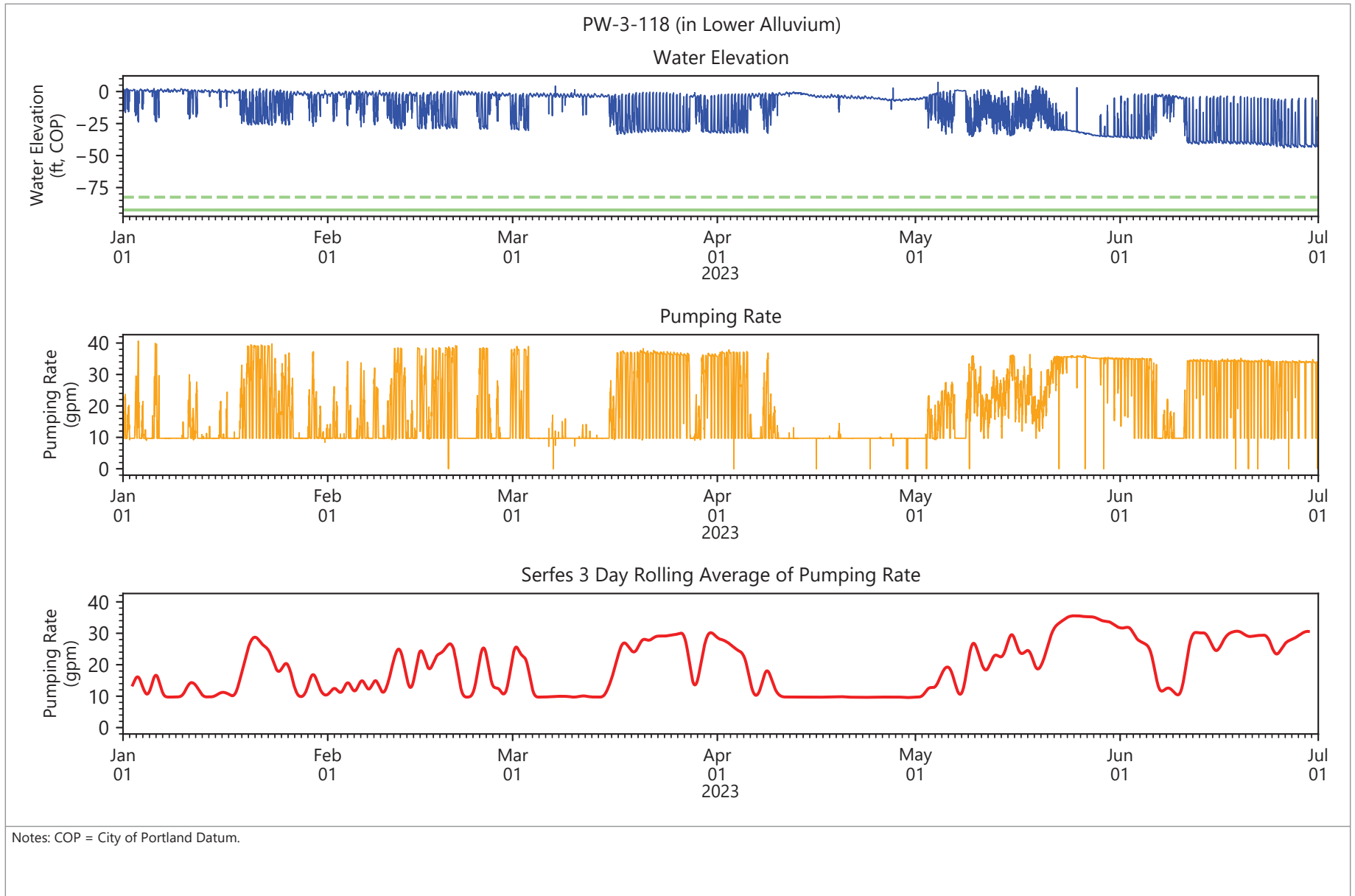


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- Groundwater Elevation
- - - Top of Screen Elevation
- Bottom of Screen Elevation
- Pumping Rate: 15-min Data
- Pumping Rate: Serfes Averages

Figure 7.18
Groundwater Elevations and Pumping Rates at Pumping Wells
 NW Natural Gasco Site



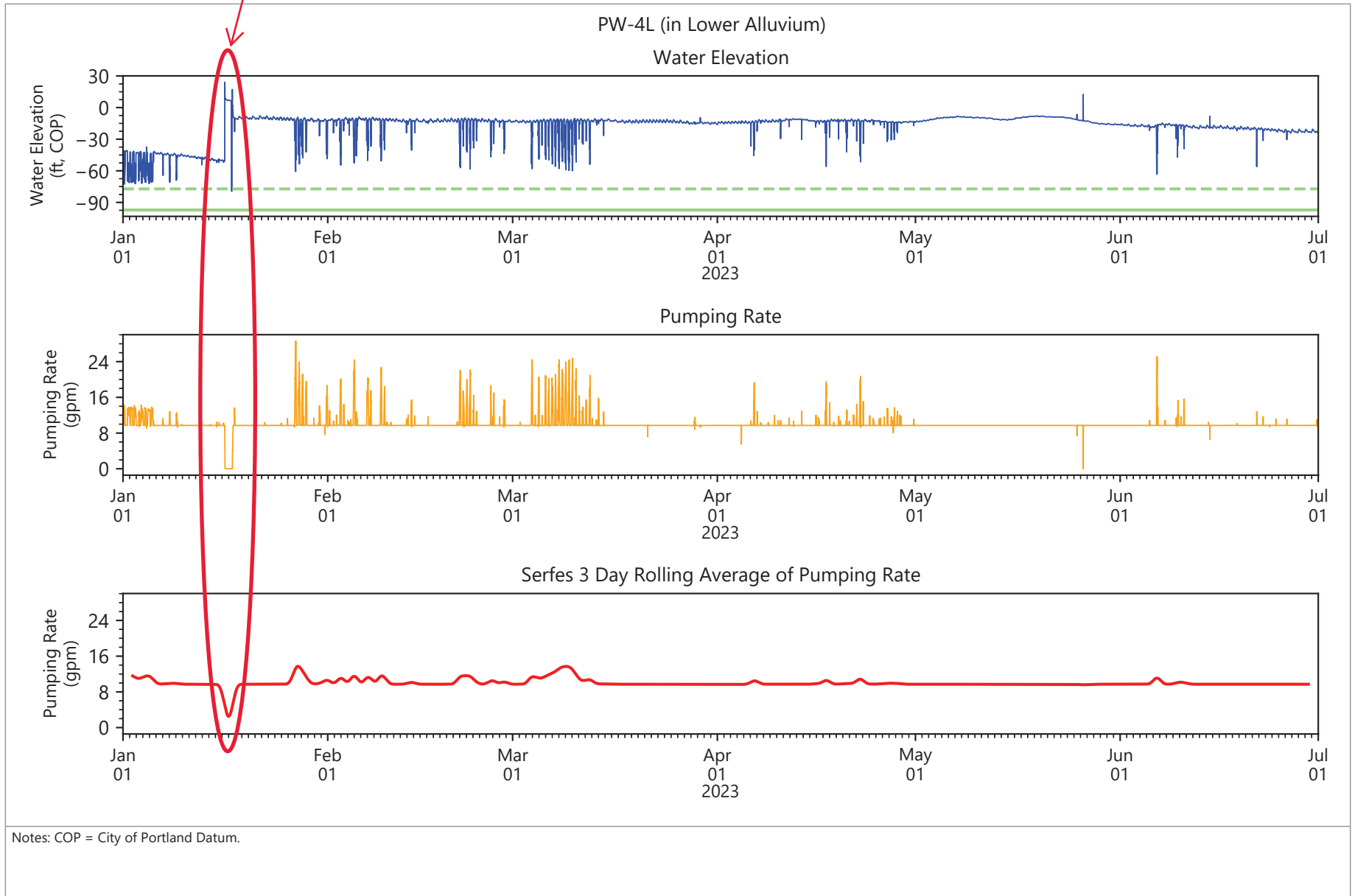
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- Groundwater Elevation
- - - Top of Screen Elevation
- Bottom of Screen Elevation
- Pumping Rate: 15-min Data
- Pumping Rate: Serfes Averages

Figure 7.19
Groundwater Elevations and Pumping Rates at Pumping Wells
 NW Natural Gasco Site

Well Screen Maintenance 1/16



Notes: COP = City of Portland Datum.

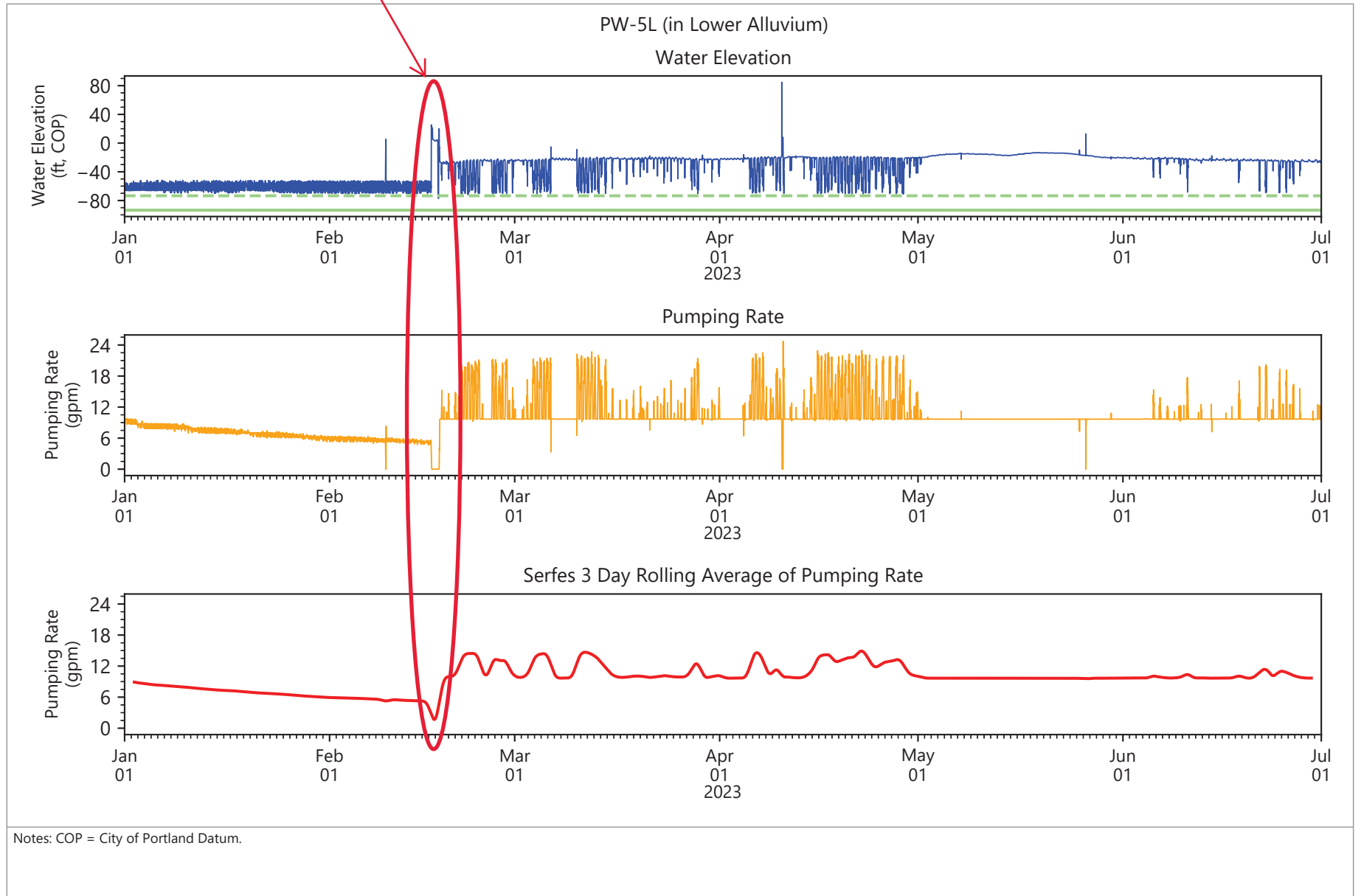
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- Groundwater Elevation
- - - Top of Screen Elevation
- Bottom of Screen Elevation
- Pumping Rate: 15-min Data
- Pumping Rate: Serfes Averages

Figure 7.20
Groundwater Elevations and Pumping Rates at Pumping Wells
NW Natural Gasco Site

Well Screen Maintenance 2/16



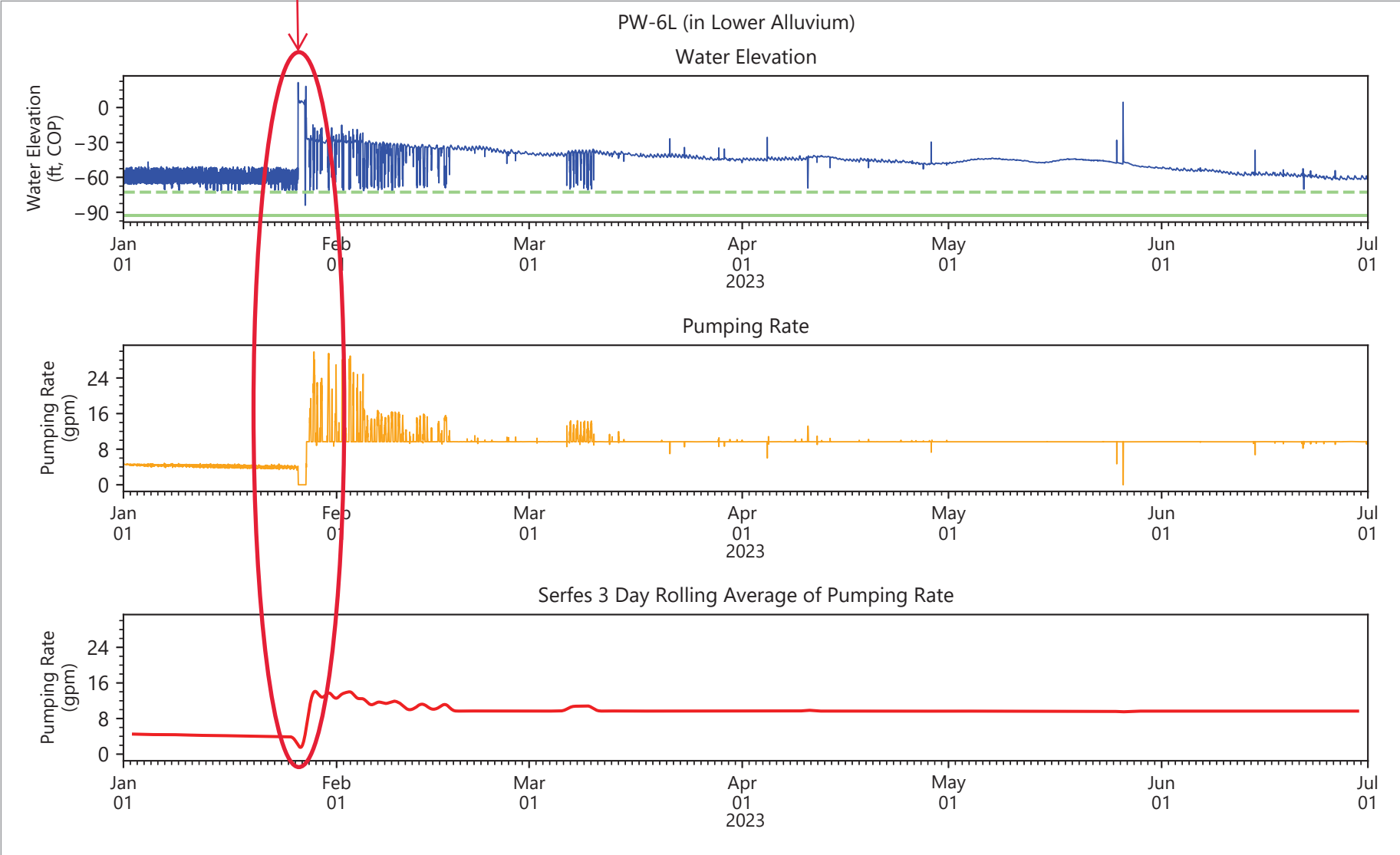
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- Groundwater Elevation
- Top of Screen Elevation
- Bottom of Screen Elevation
- Pumping Rate: 15-min Data
- Pumping Rate: Serfes Averages

Figure 7.21
Groundwater Elevations and Pumping Rates at Pumping Wells
NW Natural Gasco Site

Well Screen Maintenance 1/26



Notes: COP = City of Portland Datum.

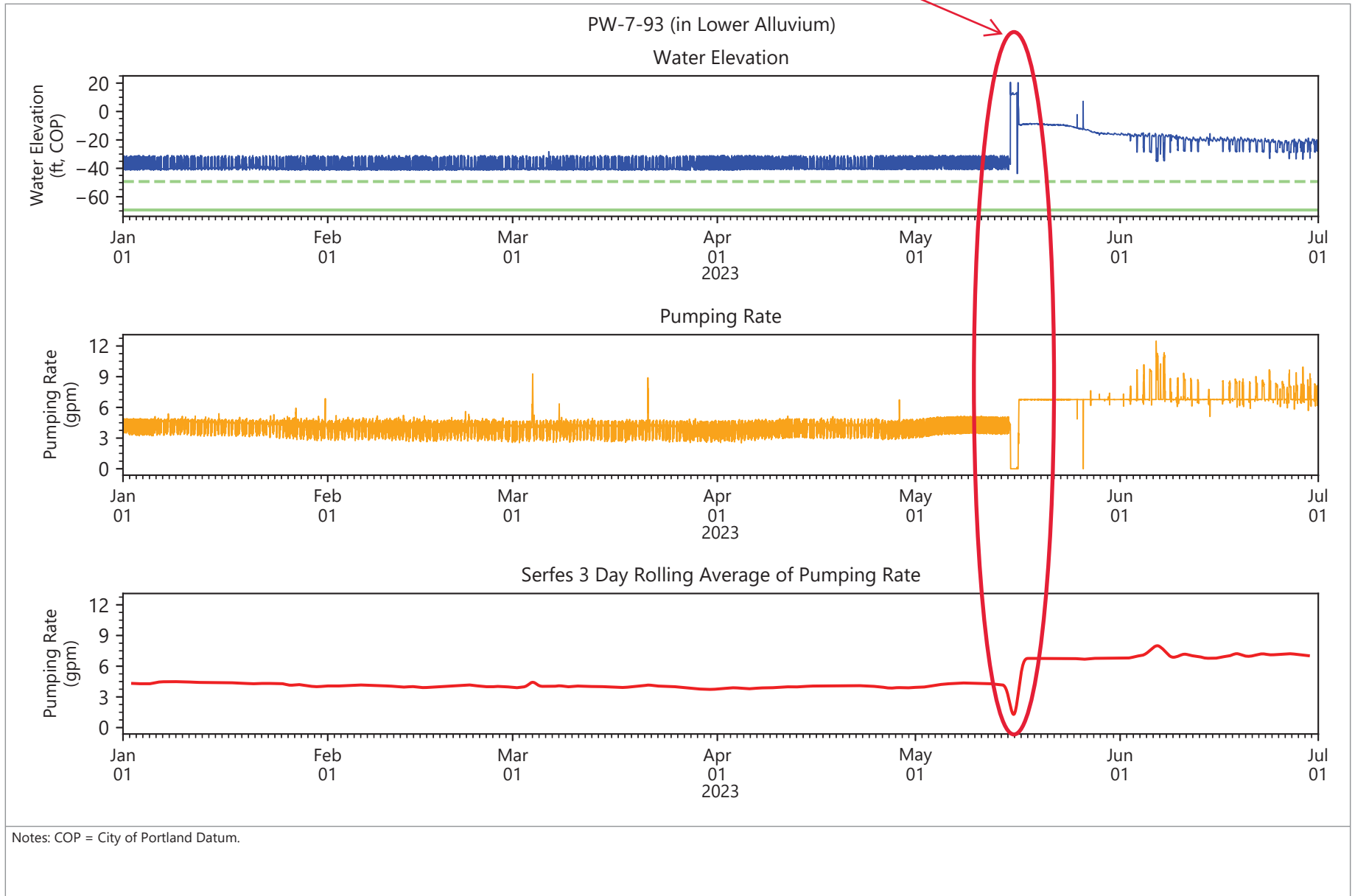
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- Groundwater Elevation
- - - Top of Screen Elevation
- Bottom of Screen Elevation
- Pumping Rate: 15-min Data
- Pumping Rate: Serfes Averages

Figure 7.22
Groundwater Elevations and Pumping Rates at Pumping Wells
NW Natural Gasco Site

Well Screen Maintenance 5/15



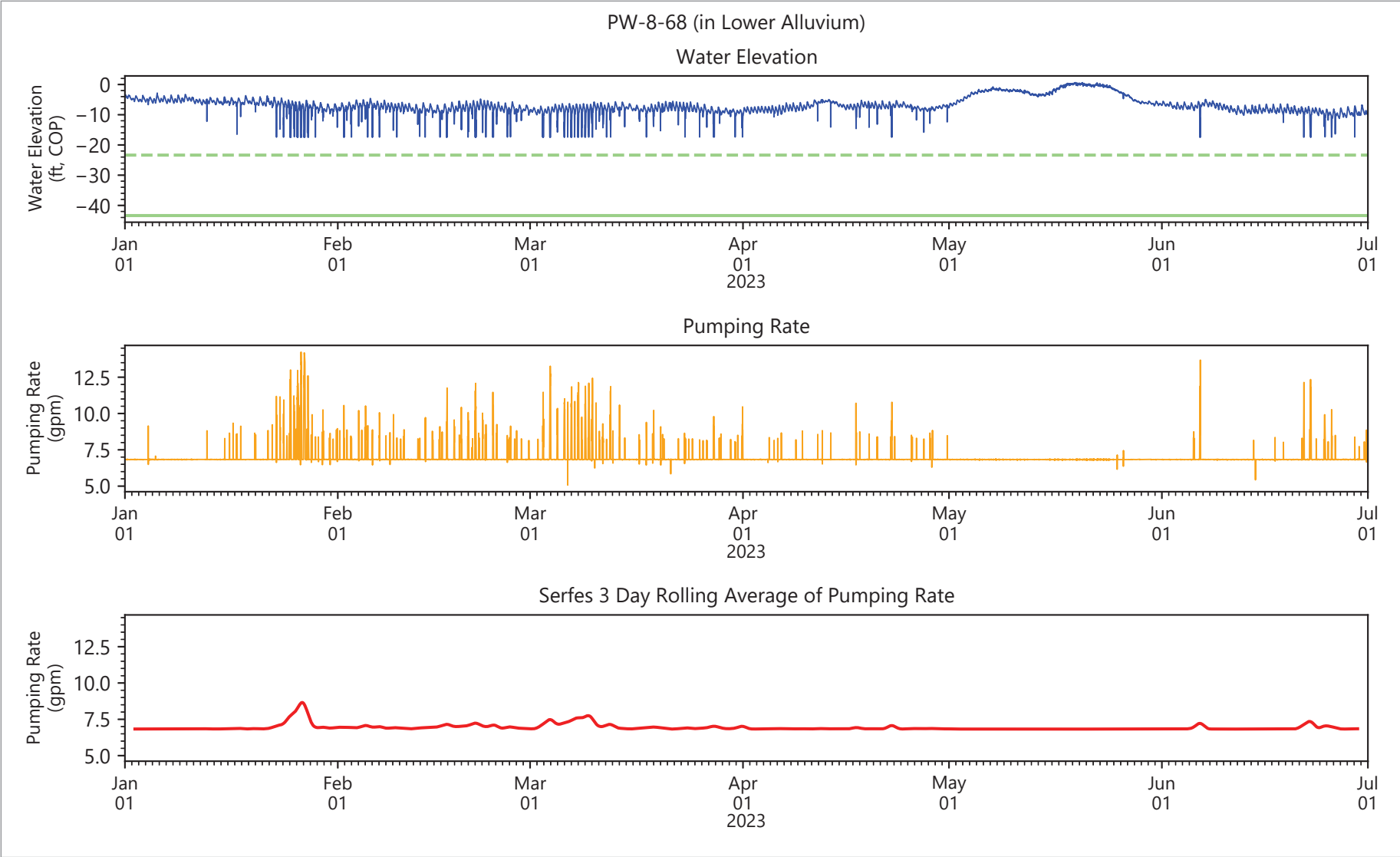
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- Groundwater Elevation
- Top of Screen Elevation
- Bottom of Screen Elevation
- Pumping Rate: 15-min Data
- Pumping Rate: Serfes Averages

Figure 7.23
Groundwater Elevations and Pumping Rates at Pumping Wells
NW Natural Gasco Site



Publish Date: 07/21/2023 12:48 PM | User: COLODSG1
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- Groundwater Elevation
- - - Top of Screen Elevation
- Bottom of Screen Elevation
- Pumping Rate: 15-min Data
- Pumping Rate: Serfes Averages

Figure 7.24
Groundwater Elevations and Pumping Rates at Pumping Wells
 NW Natural Gasco Site



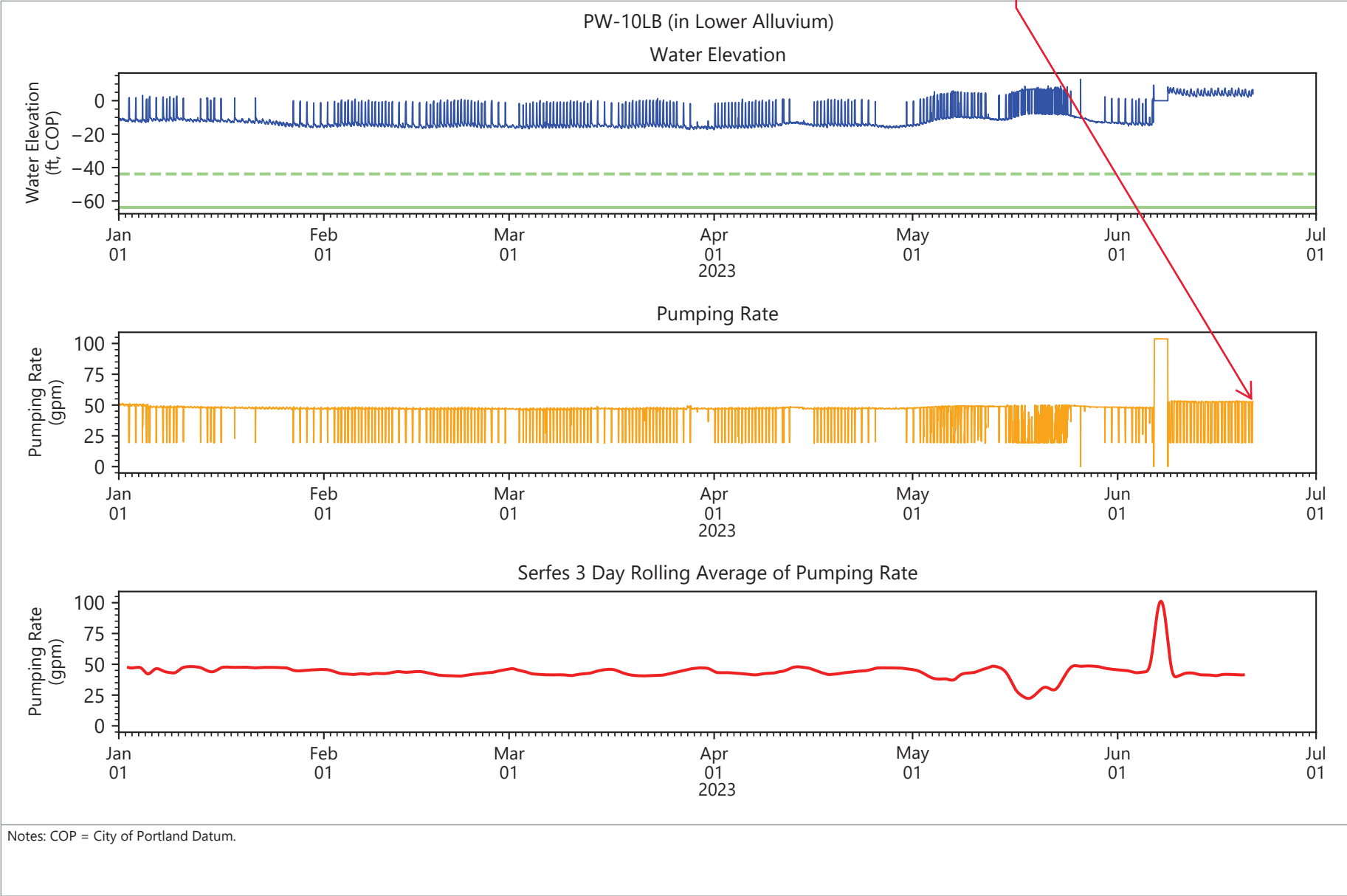
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- Groundwater Elevation
- - - Top of Screen Elevation
- Bottom of Screen Elevation
- Pumping Rate: 15-min Data
- Pumping Rate: Serfes Averages

Figure 7.25
Groundwater Elevations and Pumping Rates at Pumping Wells
 NW Natural Gasco Site

PW-10LB taken out of service, replaced with PW-10Lc



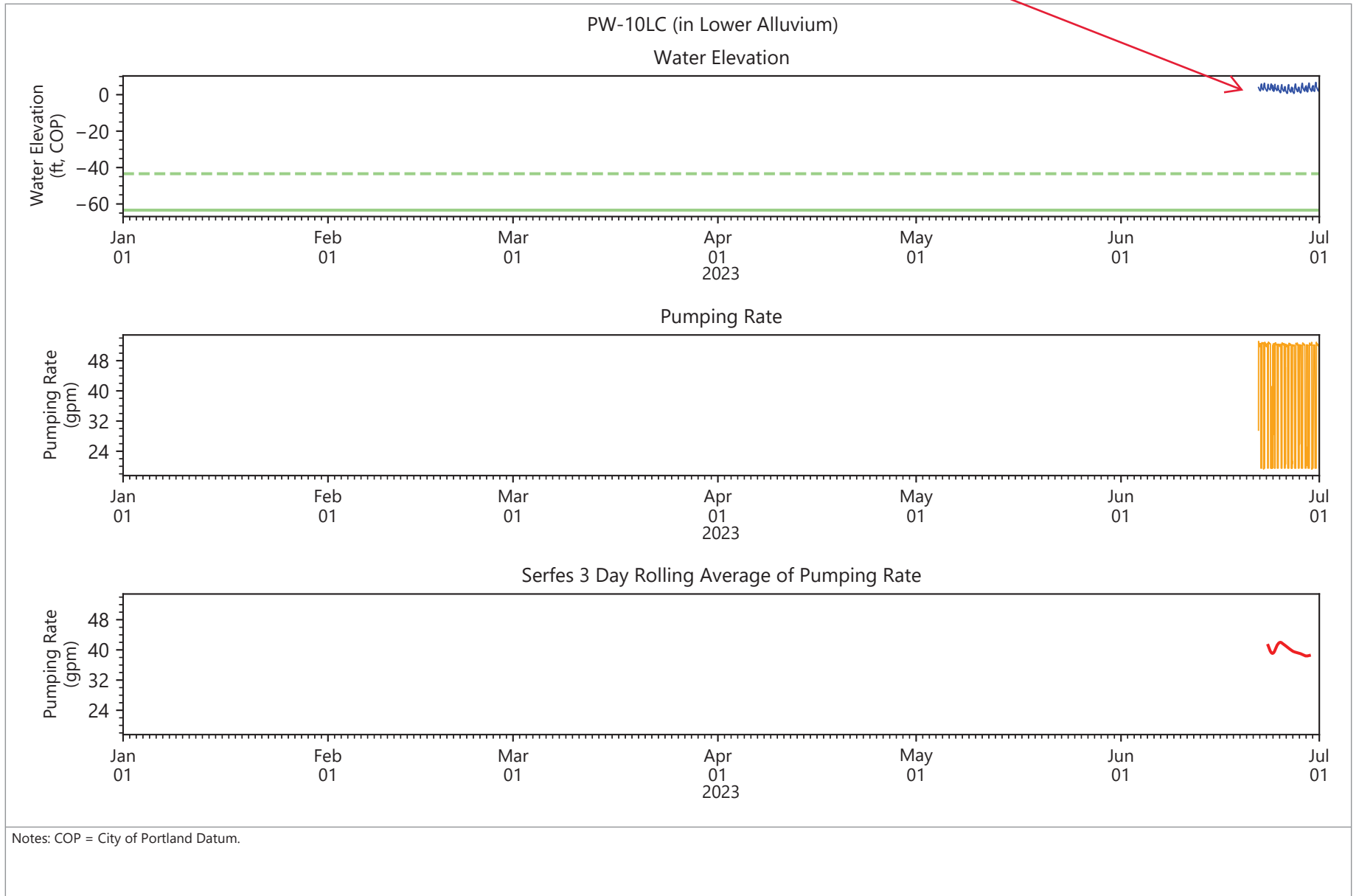
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- Groundwater Elevation
- - - Top of Screen Elevation
- Bottom of Screen Elevation
- Pumping Rate: 15-min Data
- Pumping Rate: Serfes Averages

Figure 7.26
Groundwater Elevations and Pumping Rates at Pumping Wells
NW Natural Gasco Site

PW-10LC online 6/21



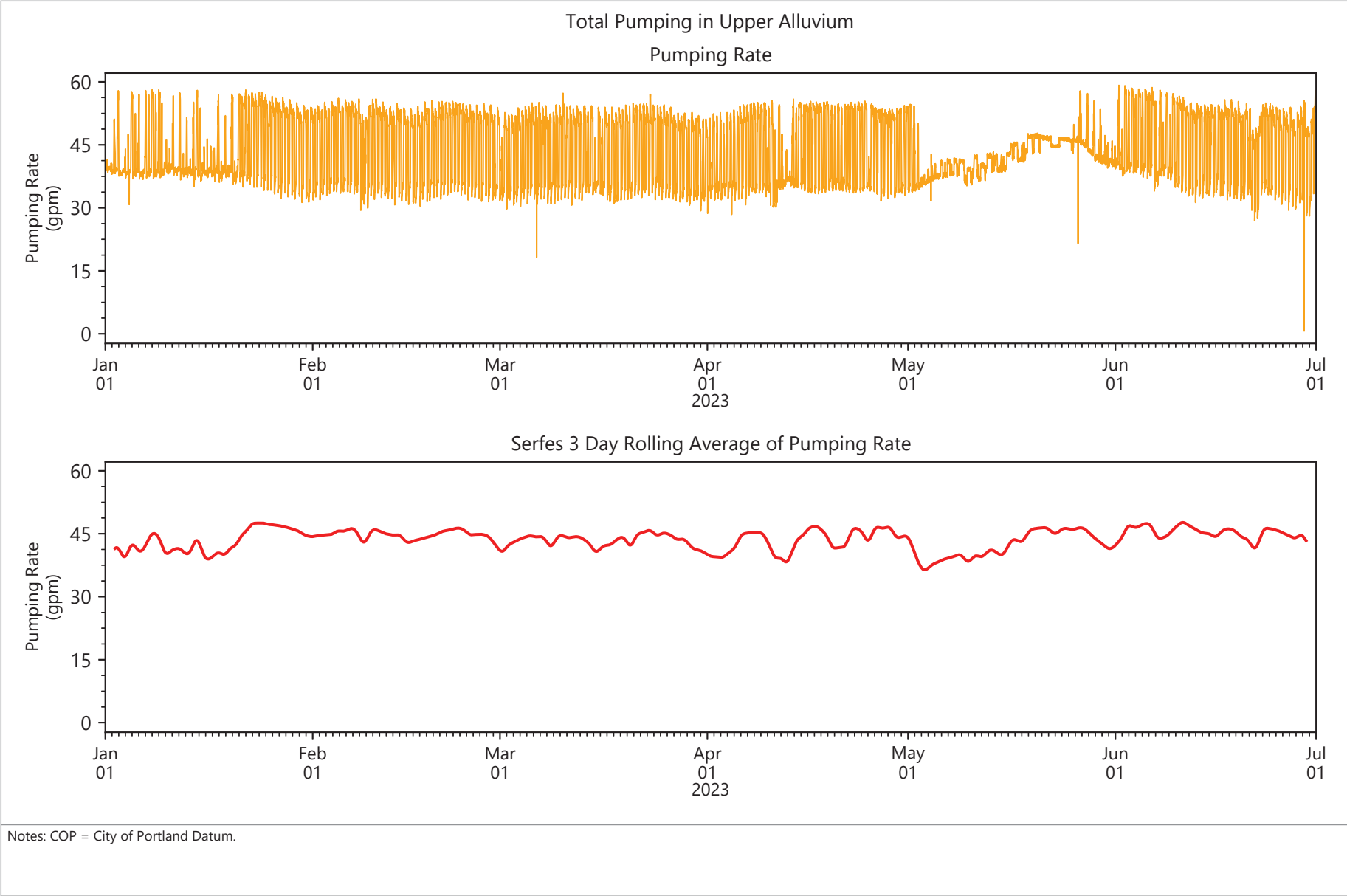
Notes: COP = City of Portland Datum.

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C:\Users\Public\Documents\Python_Scripts\Gasco_SC_DataPlots\elelevation_time_series_per6months_EQUIS.py



- Groundwater Elevation
- - - Top of Screen Elevation
- Bottom of Screen Elevation
- Pumping Rate: 15-min Data
- Pumping Rate: Serfes Averages

Figure 7.27
Groundwater Elevations and Pumping Rates at Pumping Wells
NW Natural Gasco Site

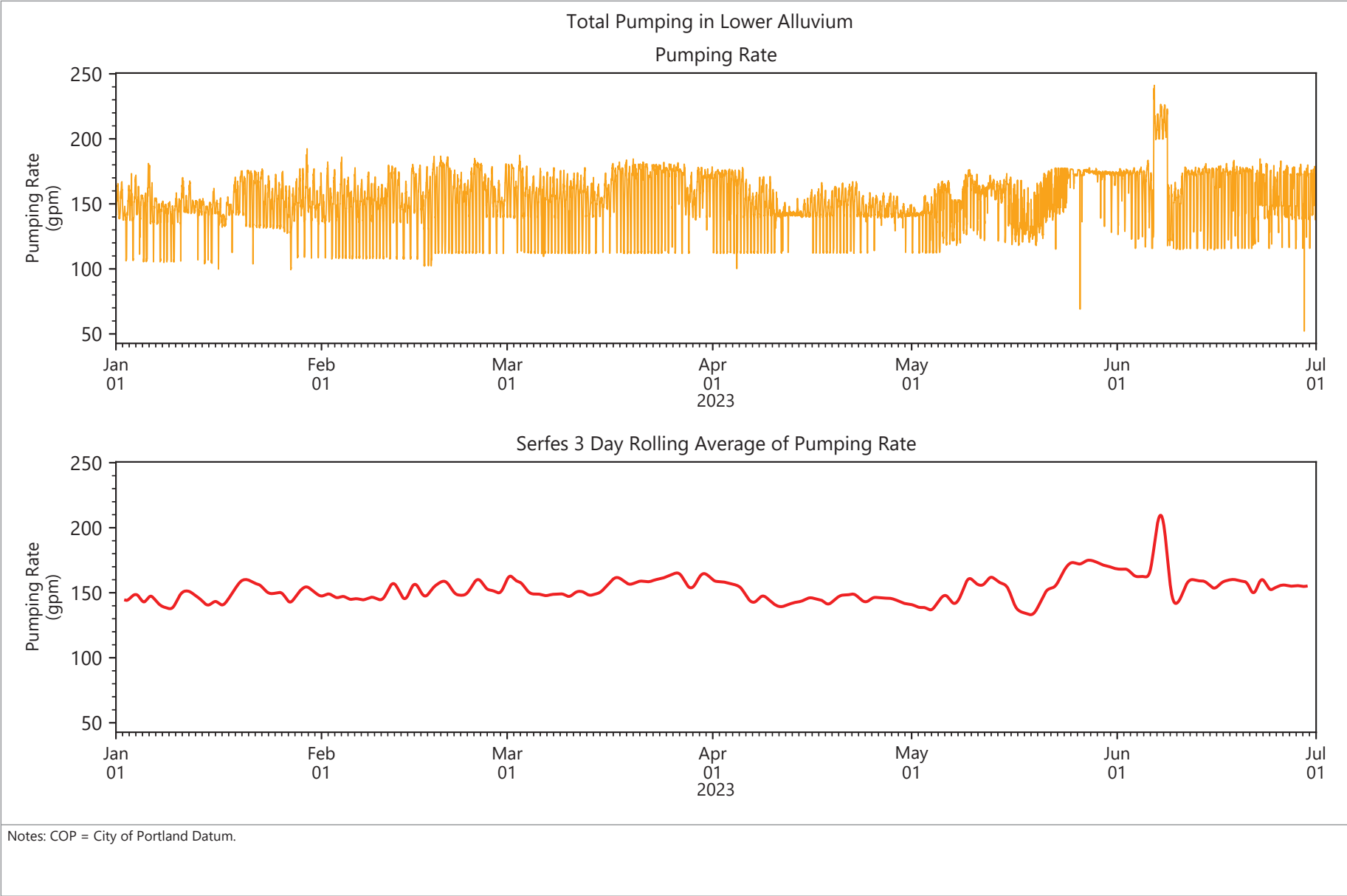


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- Pumping Rate: 15-min Data
- Pumping Rate: Serfes Averages

Figure 7.28
Pumping Rates at Pumping Wells
 NW Natural Gasco Site

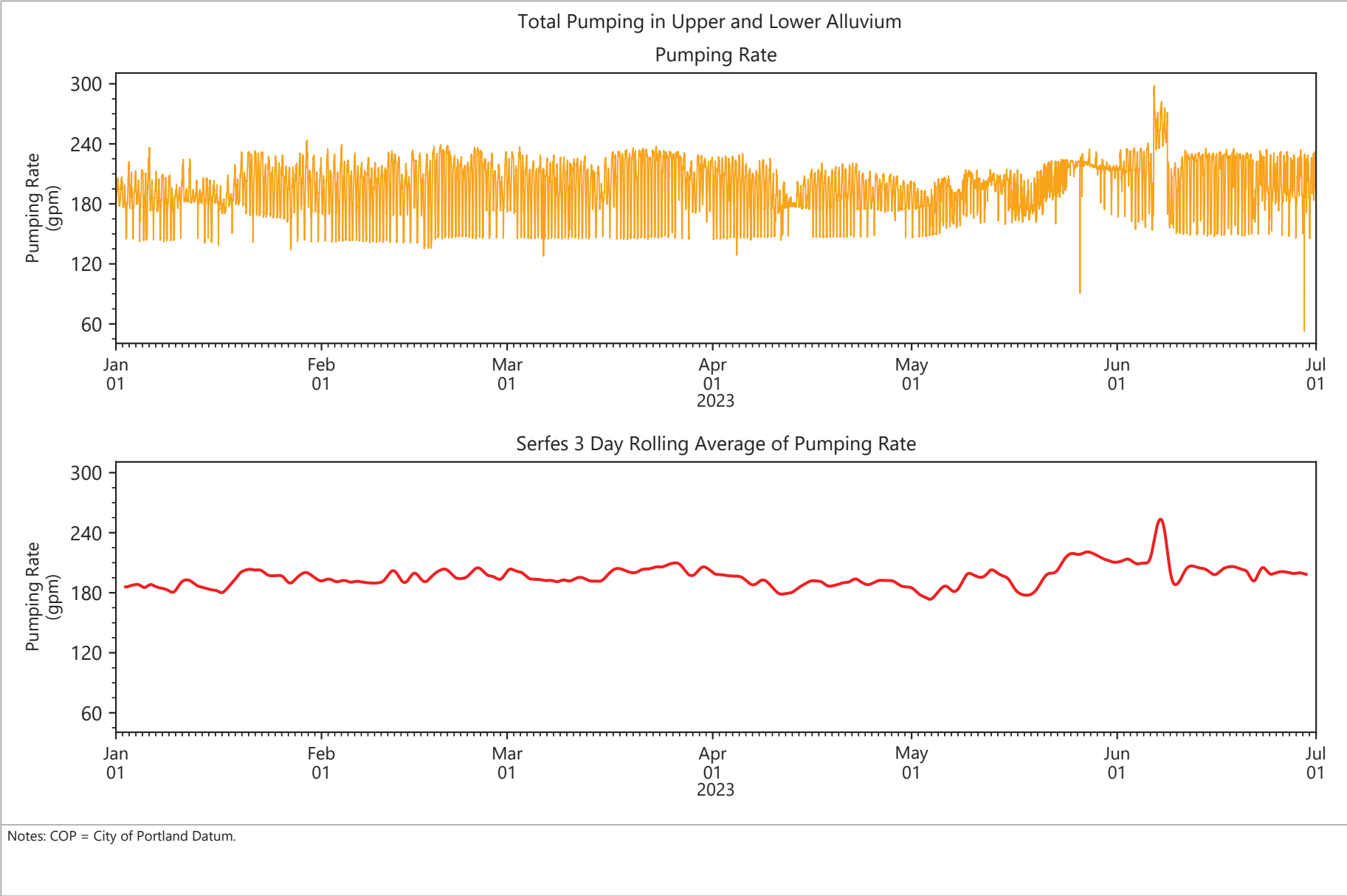


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— Pumping Rate: 15-min Data
 — Pumping Rate: Serfes Averages

Figure 7.29
Pumping Rates at Pumping Wells
 NW Natural Gasco Site



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— Pumping Rate: 15-min Data
 — Pumping Rate: Serfes Averages

Figure 7.30
Pumping Rates at Pumping Wells
 NW Natural Gasco Site