

**Shannon Road/El Camino del Cerro
Water Quality Assurance Revolving Fund (WQARF) site
Community Advisory Board (CAB) Meeting**

March 30, 2021

6:00 pm

Meeting held remotely via Zoom

MINUTES

CAB Members Present: Bob Ornelas, Gary Burchard, Adele Steger, and Kerry Xhaferi

CAB Members Absent: Robert (Keith) Adkins

ADEQ Staff Present: Barbara Boschert, Community Involvement Coordinators, Kyle Johnson, Project Manager

Members of Public Present: Michael LeBlanc, Beth Scully, Rolanda Mazecka, Dee Korich, Jacob McGill, Julie Patrick

The meeting began at 6:02 p.m.

1. Call to Order/Introductions

Mr. Bob Ornelas started the meeting and introductions were held.

2. ADEQ presentation on fourth quarter 2020 groundwater monitoring and plume model capturing

Mr. Kyle Johnson presented fourth quarter 2020 groundwater sampling results and plume model capture information (see presentation).

3. CAB discussion and public comment on ADEQ presentation

Before discussion on the presentation commenced, Ms. Barbara Boschert stated that CAB meetings are recorded and are available to the public. She stated that she had forgotten to start recording at the start of the meeting, but that, to this point, only CAB and ADEQ introductions had taken place, as well as a portion of Mr. Johnson's presentations. She stated that the full presentation is available on the ADEQ website within 72 hours of the CAB meeting. She asked anyone present who disagreed with this summary to state so on the record. No comment was made.

Mr. Gary Burchard asked for clarification on a comment Mr. Johnson made about a smaller pumping rate resulting in a smaller capture zone being “acceptable” – he wanted clarification on what that meant. Mr. Johnson said that he was thinking of the least expensive and less time-consuming rate and method that would allow the best plume capture. Mr. Ornelas asked Mr. Burchard if Metro Water has any plans to treat water for 1,4-dioxane more aggressively than just blending. Mr. Burchard said that Metro is currently negotiating with ADEQ to see if ADEQ would fund options that are more aggressive. Mr. Johnson said that this was discussed in the Proposed Remedial Action Plan, but that options were still under consideration.

Ms. Xhaferi asked if 1,4-dioxane is the same contaminant that is happening near Marana. Mr. Johnson stated that the issue in Marana is primarily PFAS but that there is some 1,4-dioxane as well. Ms. Xhaferi asked if 1,4-dioxane is lighter than water. Mr. Johnson stated that PCE and TCE are denser than water, but that 1,4-dioxide is almost the same density of water.

Ms. Steger asked if the contaminants south of the plume will migrate north in the direction of groundwater flow and Mr. Johnson stated they would. She also asked how deep the South Shannon well. Mr. Burchard replied that it’s about 500 feet deep. Ms. Steger asked if there was a constant flow of water into the well from the aquifer, and Mr. Burchard replied that there is, across a wide range of depths.

4. CAB discussion and [possible] voting on:

a. Review and approval of the June 2020 meeting minutes

Mr. Ornelas moved to accept the minutes as submitted. It was seconded by Ms. Kerry Xhaferi; motion passed.

b. CAB charter review

Ms. Boschert reviewed a proposed change to Section VI of the CAB charter. The charter originally stated, “This charter will be terminated when the Record of Decision for the site has been signed by ADEQ.” Because the CAB has the option to remain active beyond the date that the Record of Decision is signed, it is proposed that the charter be revised to read, “This charter will be terminated when the site has met the remedial objectives as outlined in the Record of the Decision, or by majority vote of the CAB.”

Ms. Boschert explained that it is anticipated that yearly community update meetings will be held following release of the Record of Decision, which could be either CAB meetings or general public meetings, and that it was simply up to the CAB as to whether they wanted to remain active as a formal CAB.

Ms. Burchard made a motion to accept the charter changes as discussed. It was seconded by Ms. Xhaferi, and was unanimously passed.

c. CAB co-chair election

Ms. Xhaferi asked what the responsibilities of a CAB co-chair are. Ms. Boschert stated that co-chairs are consulted first to determine CAB meeting dates, as we must have at least one co-chair at each meeting. The co-chairs also review the proposed agenda before it is finalized, and take turns leading each meeting. Mr. Ornelas asked if the co-chairs are allowed to confer with each other regarding meeting planning (without that being violation of Open Meeting Law). Ms. Boschert replied that it is acceptable for them to do so. Mr. Ornelas offered to remain as a co-chair for the CAB. Ms. Xhaferi volunteered to become the other co-chair. Ms. Steger then made a motion to elect Ms. Xhaferi to the co-chair position and Ms. Xhaferi seconded it. The motion was passed unanimously.

d. Future CAB meeting topics and schedule

Mr. Burchard wanted the CAB to know that he is leaving Metro Water soon and will be starting a new job in June. Ms. Boschert stated that she would be in touch with him to see if he had a name for a new contact at Metro Water, and that anyone there is welcome to either become a CAB member, or attend the CAB meetings.

Ms. Boschert said that the next CAB meeting would likely be when the Record of Decision is released. Mr. Johnson said he is aiming for it to be released prior to the end of this fiscal year (June 30, 2021).

Mr. Burchard asked why the WQARF Advisory Board is no longer meeting, as he found it beneficial. He asked Ms. Boschert to find out why it is no longer meeting, and she stated that she would get back the CAB as soon as possible with an answer.

5. *Call to the Public

No comments or questions.

7. Adjournment

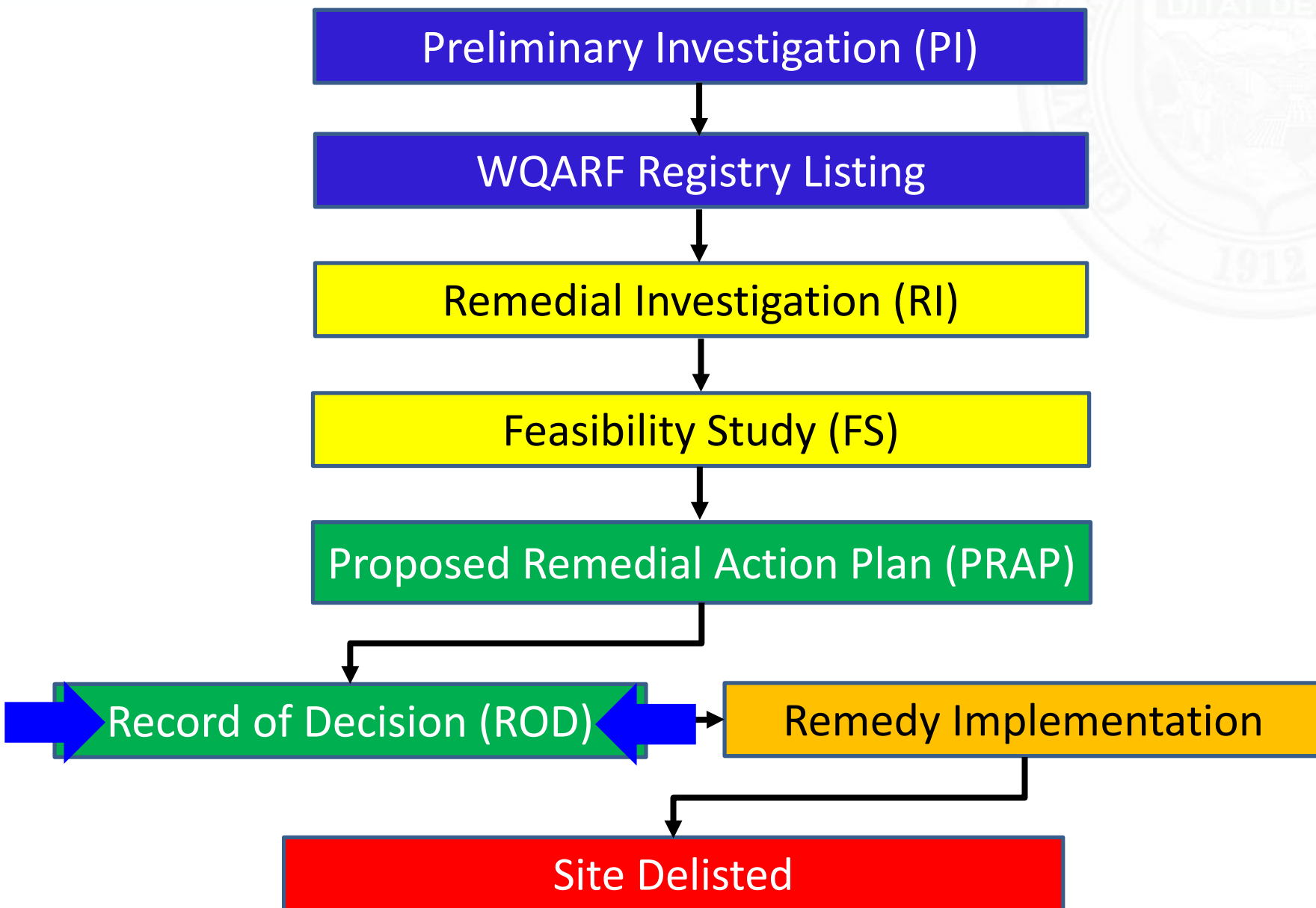
Mr. Ornelas motioned to adjourn. Mr. Burchard seconded it. Meeting adjourned 7:32 p.m.

Shannon Road El Camino del Cerro
WQARF Site
Community Advisory Board Meeting
March 30, 2021

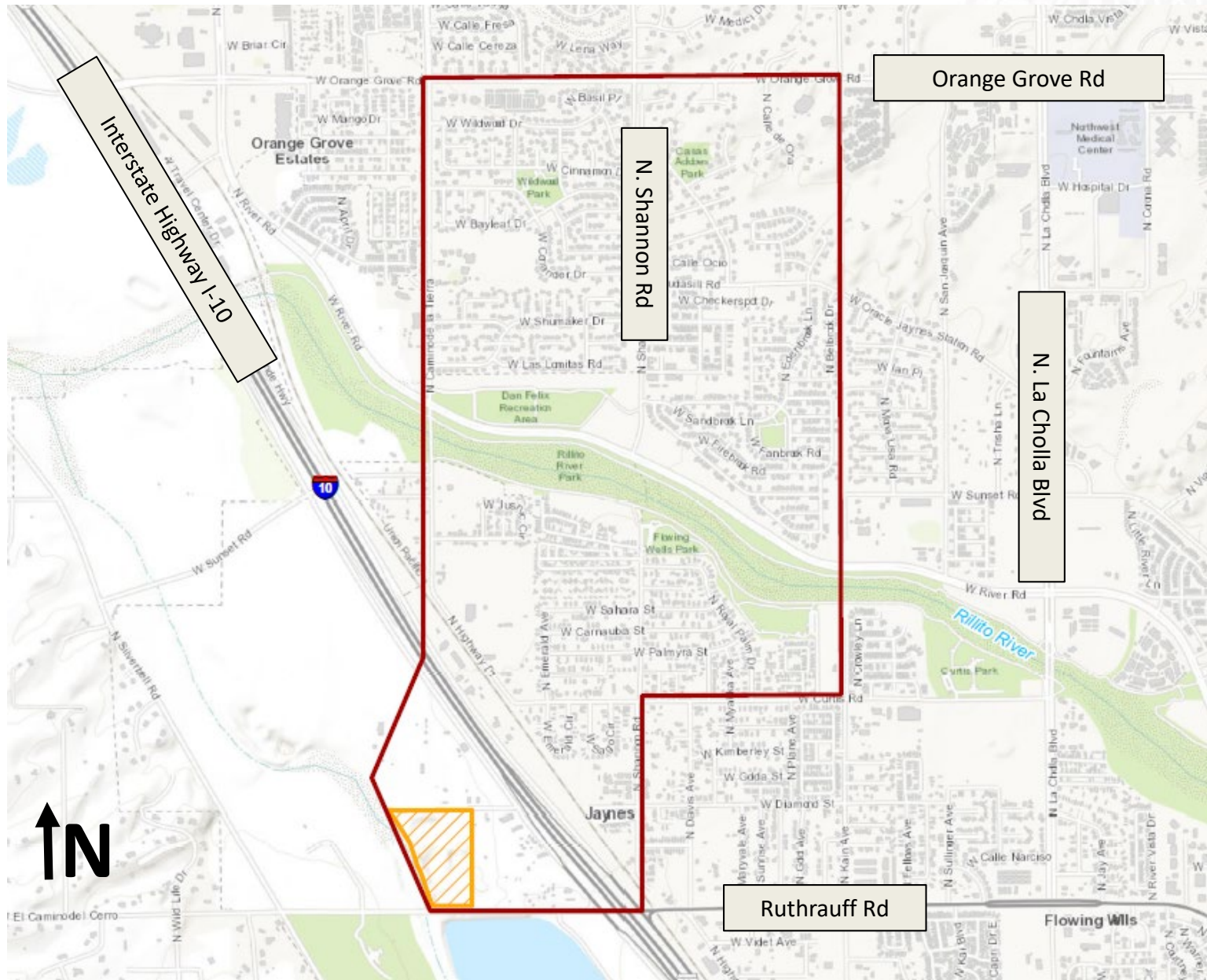
4th Quarter 2020 Groundwater
Monitoring and 2020 Plume
Capture Modeling

- Water Quality Assurance Revolving Fund (WQARF) Process
- 4th Quarter 2020 Groundwater Monitoring
- Plume Capture Modeling

WQARF Process



Site Location Map



2020 Q4 Groundwater Elevation

Shallow Zone



IMAGERY SOURCE: Earth World Imagery, 7/10/2019

- SHALLOW GROUNDWATER MONITORING WELL
- SHALLOW GROUNDWATER MONITORING WELL - NOT MEASURED
- GROUNDWATER ELEVATION CONTOUR (CONTOUR INTERVAL = 1 FOOT)
- APPROXIMATE DIRECTION OF GROUNDWATER FLOW
- SITE BOUNDARY

LOCATION ID: **SRC-W3S5 2077.41**

GROUNDWATER ELEVATION (feet above mean sea level)

Groundwater Elevations Shallow Zone October 2020

Shannon Rossi Camino del Cerro WQARF Site Tucson, Arizona

Geosyntec consultants

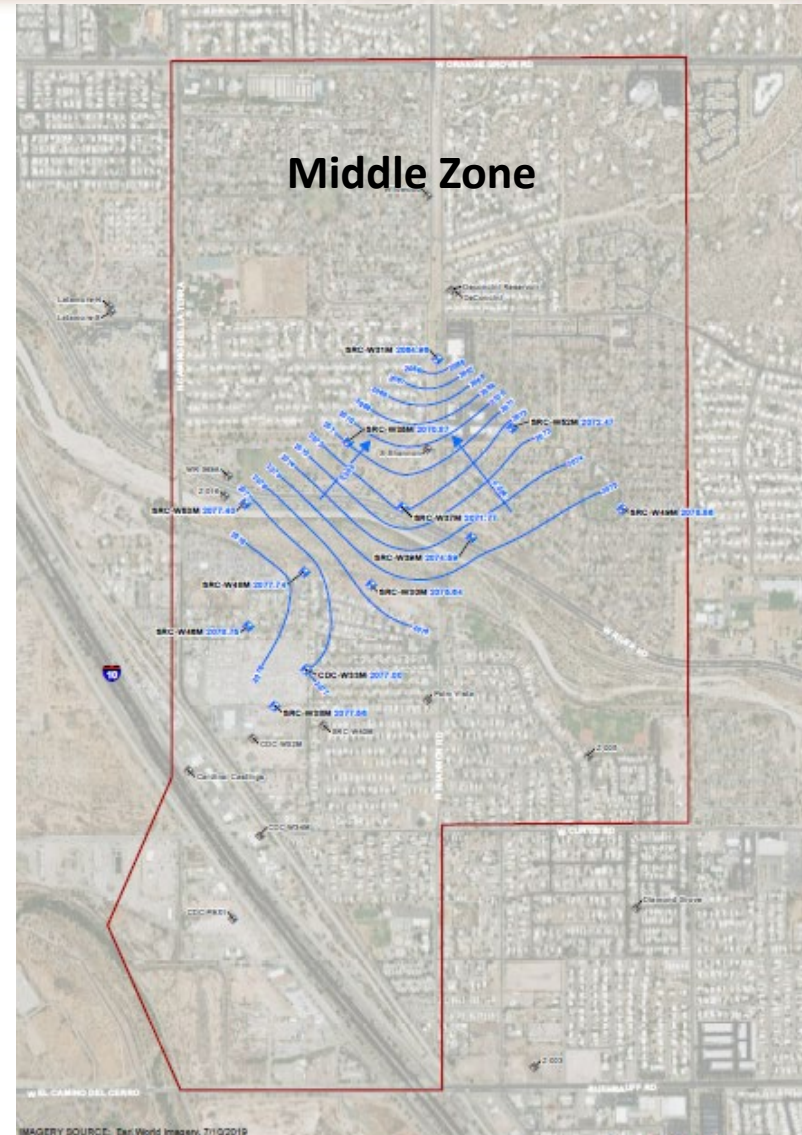
Figure **2**

WQARF: Water Quality Assurance Revolving Fund - Groundwater elevations were measured 10/08/2020 and 10/09/2020

Scale: 0 400 800 1,600 Feet

Phoenix January 2021

Middle Zone



IMAGERY SOURCE: Earth World Imagery, 7/10/2019

- MEDIUM GROUNDWATER MONITORING WELL
- MEDIUM GROUNDWATER MONITORING WELL - NOT MEASURED
- GROUNDWATER ELEVATION CONTOUR (CONTOUR INTERVAL = 1 FOOT)
- APPROXIMATE DIRECTION OF GROUNDWATER FLOW
- SITE BOUNDARY

LOCATION ID: **SRC-W3MS 2077.41**

GROUNDWATER ELEVATION (feet above mean sea level)

Groundwater Elevations Middle Zone October 2020

Shannon Rossi Camino del Cerro WQARF Site Tucson, Arizona

Geosyntec consultants

Figure **3**

WQARF: Water Quality Assurance Revolving Fund - Groundwater elevations were measured 10/08/2020 and 10/09/2020

Scale: 0 400 800 1,600 Feet

Phoenix January 2021

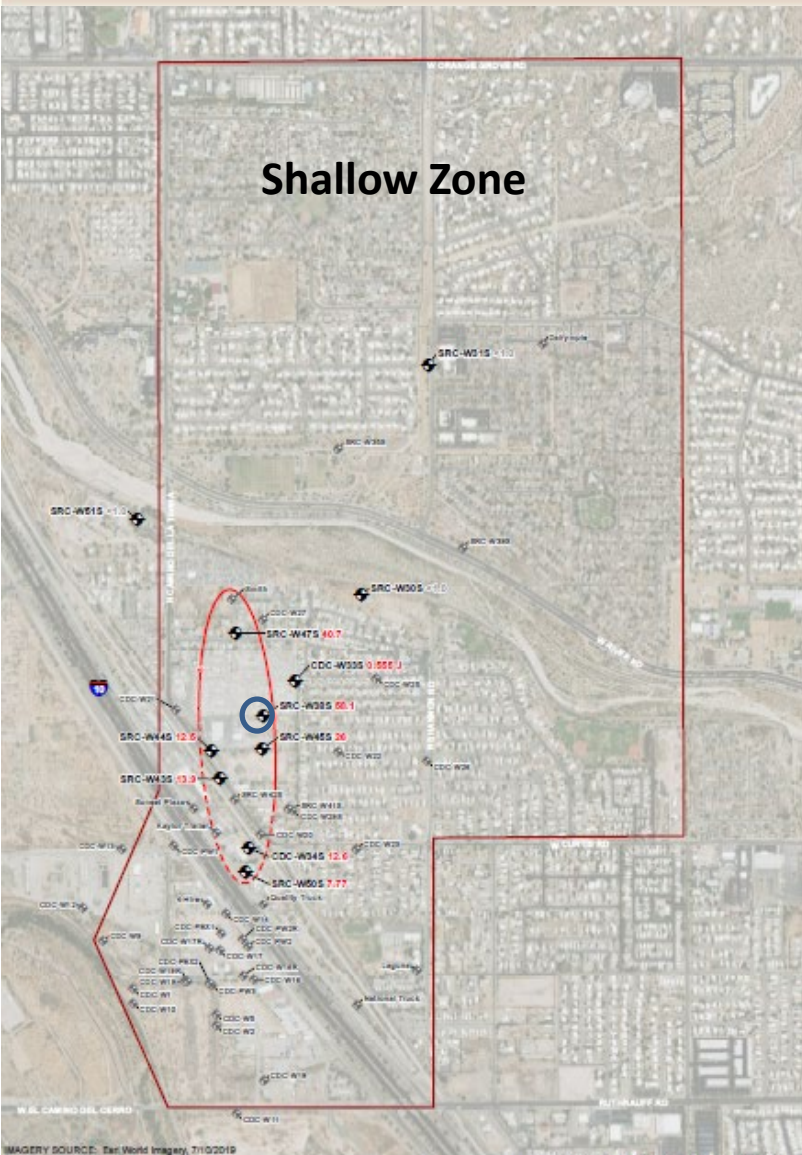
2020 Q4 Tetrachloroethene Concentrations

Shallow Zone

High:
58 micrograms per liter (ug/L)

Low:
Non-detectable (ND)

Middle Zone



IMAGERY SOURCE: Teri World Imagery, 7/10/2019

- SHALLOW GROUNDWATER MONITORING WELL
- SHALLOW GROUNDWATER MONITORING WELL - NOT SAMPLED
- PCB CONCENTRATION CONTOUR
- PCB CONCENTRATION CONTOUR, INFERRED
- MTR BOUNDARY

LOCATION ID: **SRC-W325 58.1**

PCB CONCENTRATION (ug/L): **58.1**

ug/L - micrograms per liter
 J: The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample
 WQARF - Water Quality Assurance Remedial Fund
 - The Arizona Water Quality Standard for PCBs is 5 ug/L
 - Shallow wells were sampled between 1/5/2020 and 1/15/2020

Tetrachloroethene (PCE) Concentrations
 Shallow Zone
 Fall 2020

Shannon Rolfi Camino del Cero WQARF Site
 Tucson, Arizona

Geosyntec consultants

Phoenix January 2021

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IMAGERY SOURCE: Teri World Imagery, 7/10/2019

- MEDIUM GROUNDWATER MONITORING WELL
- MEDIUM GROUNDWATER MONITORING WELL - NOT MEASURED
- PCB CONCENTRATION CONTOUR
- PCB CONCENTRATION CONTOUR, INFERRED
- MTR BOUNDARY

LOCATION ID: **SRC-W46M 13.4**

PCB CONCENTRATION (ug/L): **13.4**

ug/L - micrograms per liter
 J: The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample
 WQARF - Water Quality Assurance Remedial Fund
 - The Arizona Water Quality Standard for PCBs is 5 ug/L
 - Medium wells were sampled on 1/5/2020 and 1/15/2020

Tetrachloroethene (PCE) Concentrations
 Middle Zone
 Fall 2020

Shannon Rolfi Camino del Cero WQARF Site
 Tucson, Arizona

Geosyntec consultants

Phoenix January 2021

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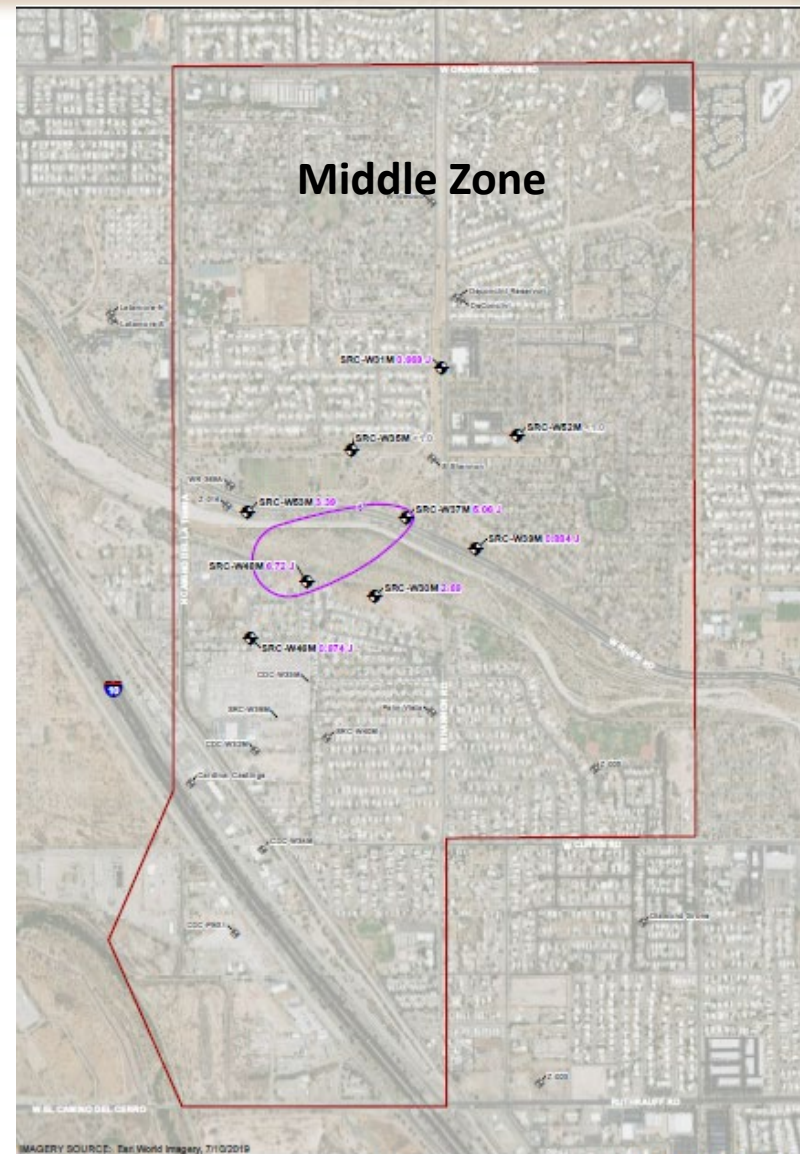
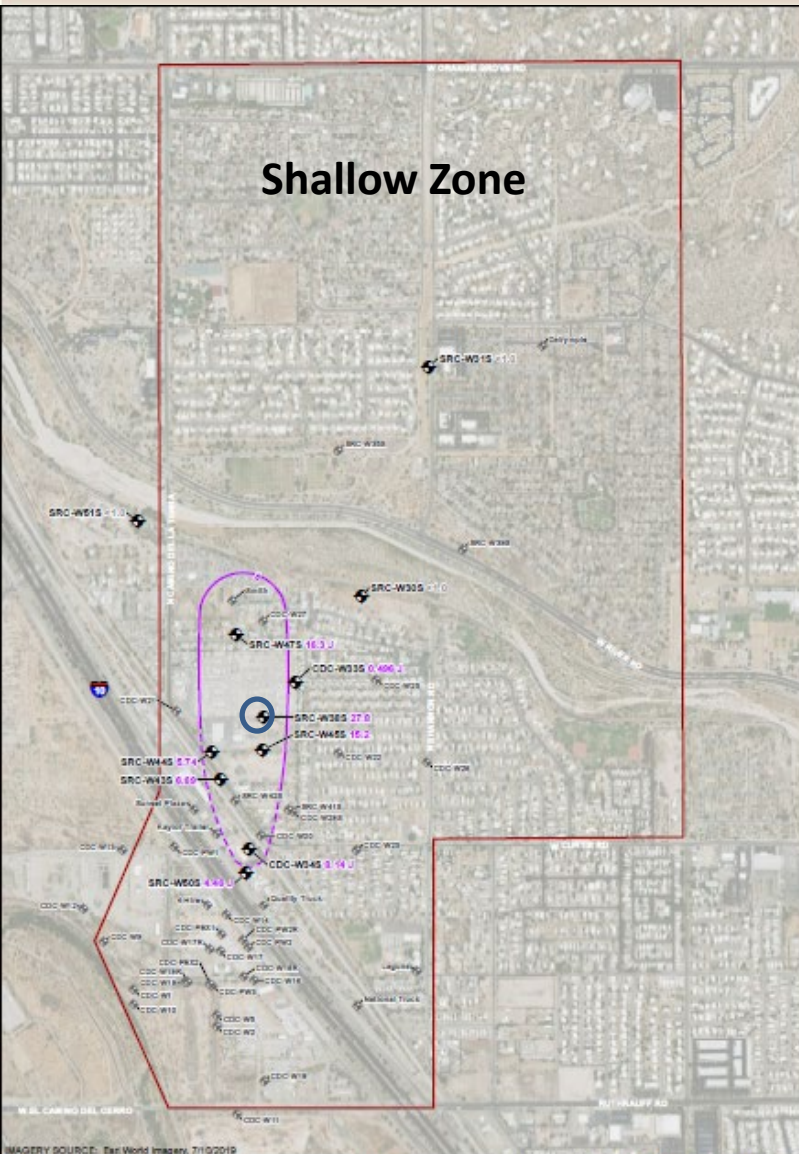
2020 Q4 Trichloroethene Concentrations

Shallow Zone

High:
28 ug/L

Low:
ND

Middle Zone

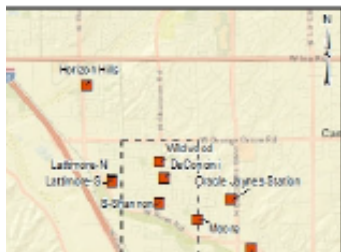
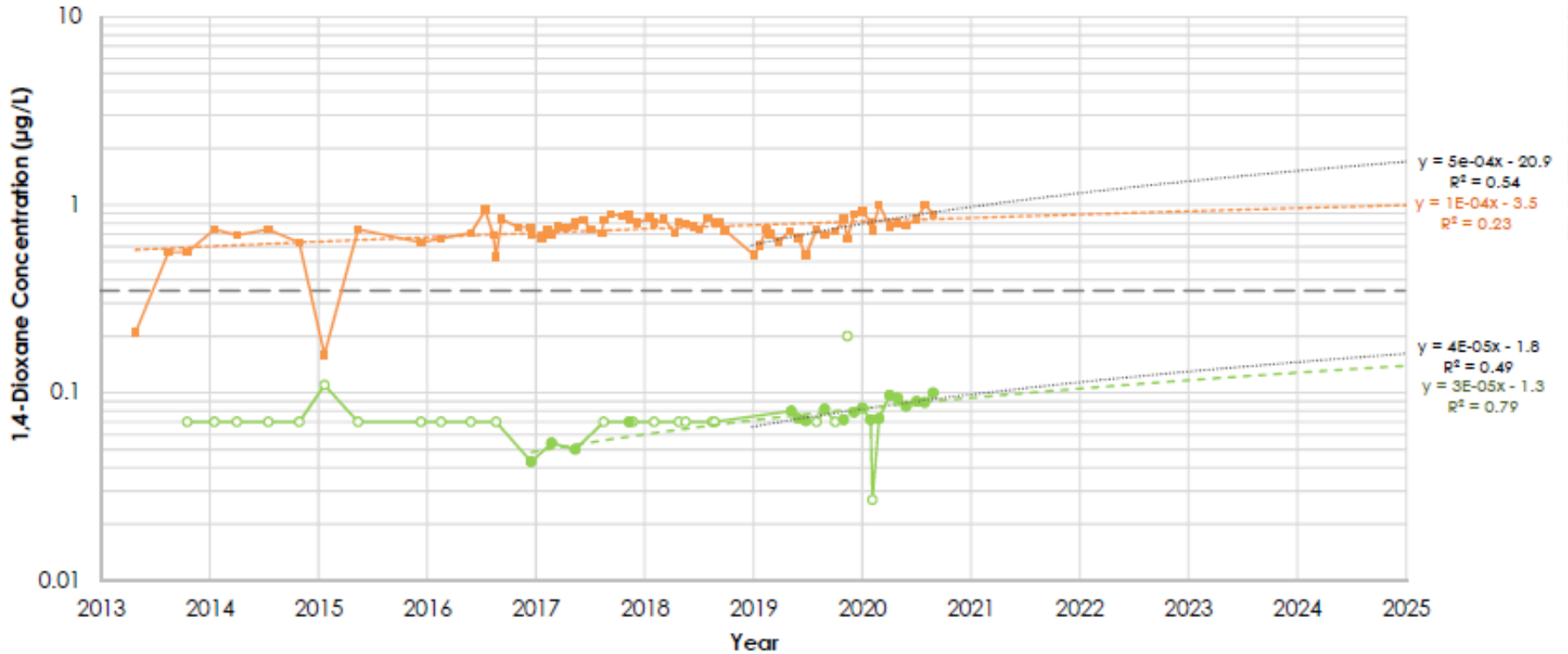


<ul style="list-style-type: none"> SHALLOW GROUNDWATER MONITORING WELL SHALLOW GROUNDWATER MONITORING WELL - NOT SAMPLED TCE CONCENTRATION CONTOUR TCE CONCENTRATION CONTOUR, INFERRED SITE BOUNDARY 	<p>LOCATION ID SRC-W355 27.8</p> <p>TCE CONCENTRATION (ug/L)</p>	<p>Trichloroethene (TCE) Concentrations Shallow Zone Fall 2020</p> <p>Shannon R&R Casino del Cerro WQARF Site Tucson, Arizona</p> <p>Geosyntec consultants</p> <p>Project: January 2021</p> <p>Figure 6</p>
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<ul style="list-style-type: none"> MEDIUM GROUNDWATER MONITORING WELL MEDIUM GROUNDWATER MONITORING WELL - NOT MEASURED TCE CONCENTRATION CONTOUR TCE CONCENTRATION CONTOUR, INFERRED SITE BOUNDARY 	<p>LOCATION ID SRC-W355 27.8</p> <p>TCE CONCENTRATION (ug/L)</p>	<p>Trichloroethene (TCE) Concentrations Middle Zone Fall 2020</p> <p>Shannon R&R Casino del Cerro WQARF Site Tucson, Arizona</p> <p>Geosyntec consultants</p> <p>Project: January 2021</p> <p>Figure 7</p>
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2020 Plume Capture Model

1,4-Dioxane Trend at South Shannon and DeConcini Wells



Legend

- Advisory Level
- South Shannon Well
- DeConcini Well

Trendlines

- Linear (South Shannon Well)
- Linear (S Shannon 2019-2020)
- Linear (DeConcini Well 2019-2020)
- Linear (DeConcini Well)

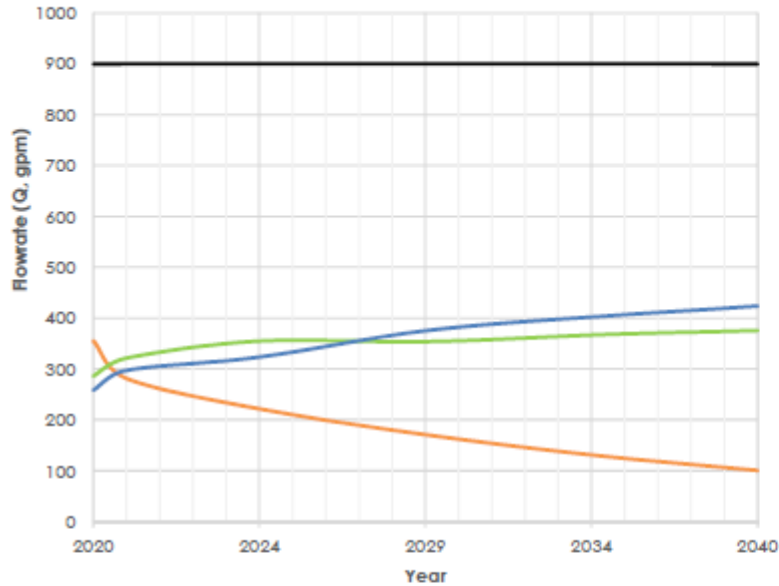
1,4-Dioxane Trend Analysis

Shannon Road/El Camino Del Cerro WQARF Site
Tucson, Arizona

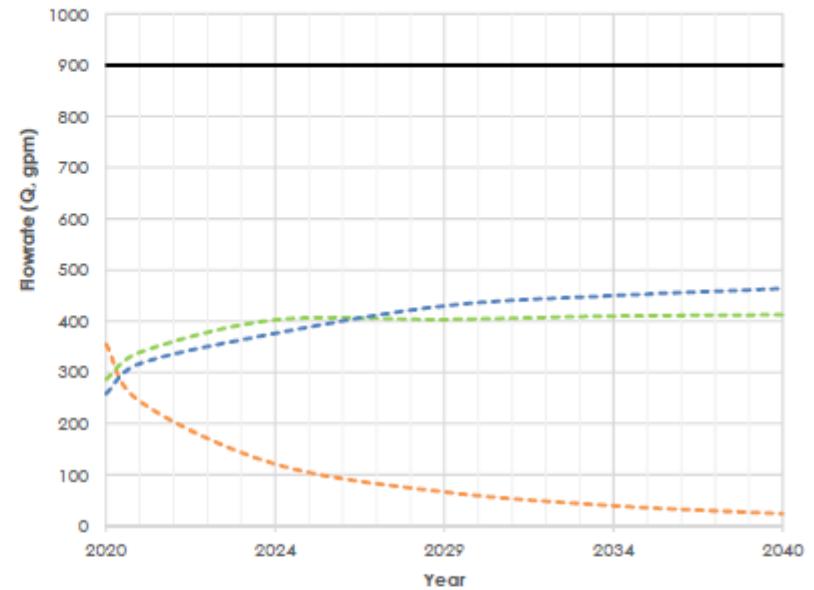
2020 Plume Capture Model

Projected Pumping Rates to Maintain 900 gpm Total Flow and 1,4-Dioxane < 0.35 ug/L

Linear Trend from 2013 to 2020



Linear Trend from 2019 to 2020



Legend

- South Shannon
- Deconcini
- Wildwood
- Q total

Note:
com = gallons per minute

Projected Pumping Rates for Blending

Shannon Road/El Camino Del Cerro WQARF Site Tucson,
Arizona

Modeled Scenarios

Scenario 1

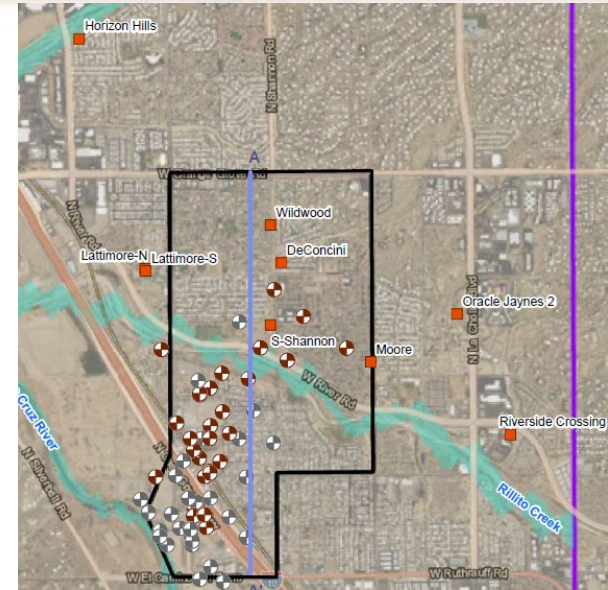
- Current Average Pumping

Scenario 2

- Increased Pumping Rate at S. Shannon Well

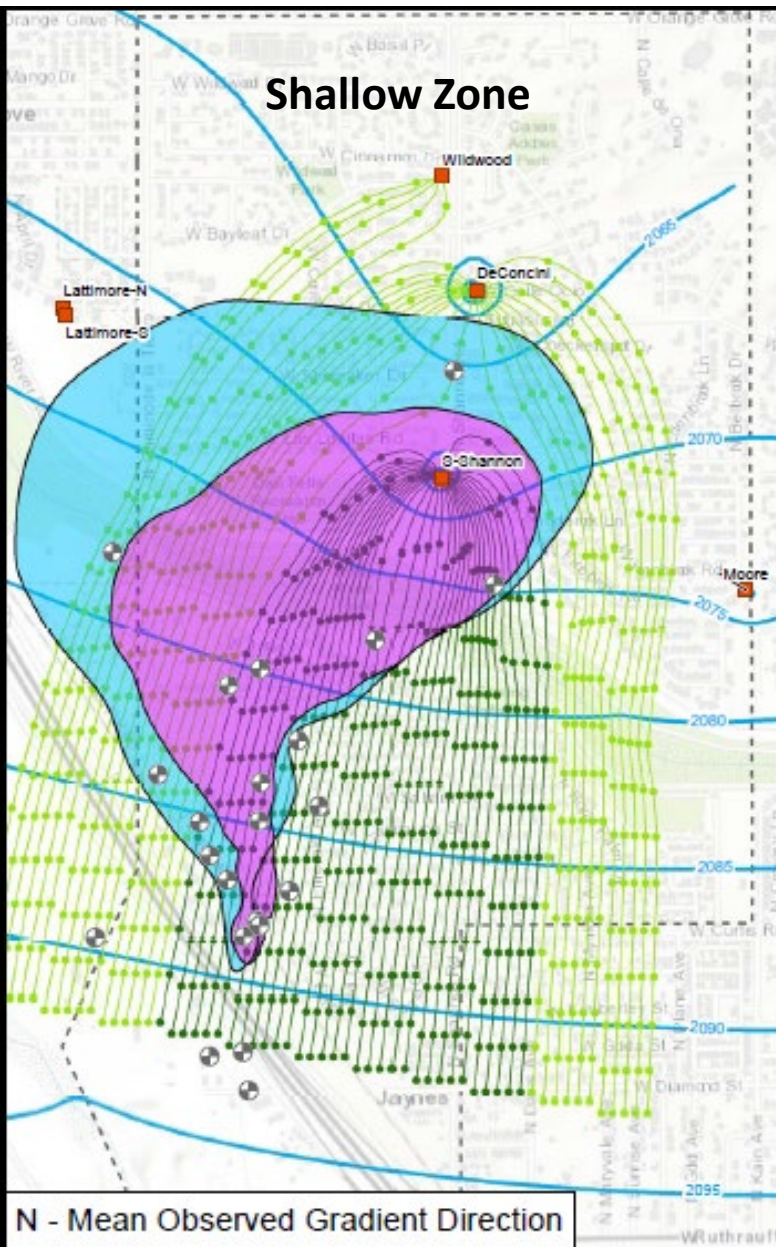
Scenario 3

- Decreased Pumping Rate at S. Shannon Well

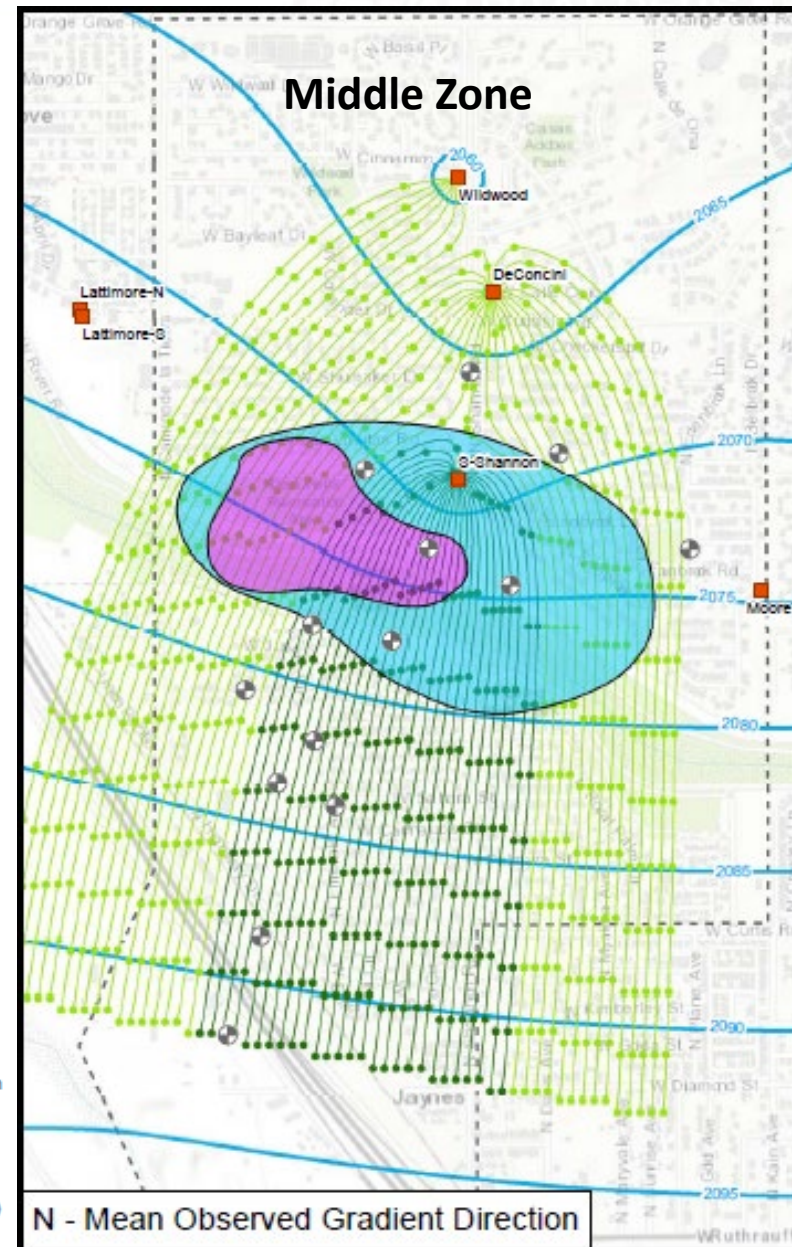


Well Name	Scenario 1 (gpm)	Scenario 2 (gpm)	Scenario 3 (gpm)
Lattimore-N	21	21	21
Lattimore-S	3	3	1
Wildwood	259	139	372
DeConcini	288	139	372
South Shannon	357	620	155
Moore	42	42	63
Horizon Hills	29	29	1
Oracle Jaynes 2	585	585	585
Riverside Crossing	399	399	407

2020 Plume Capture Model

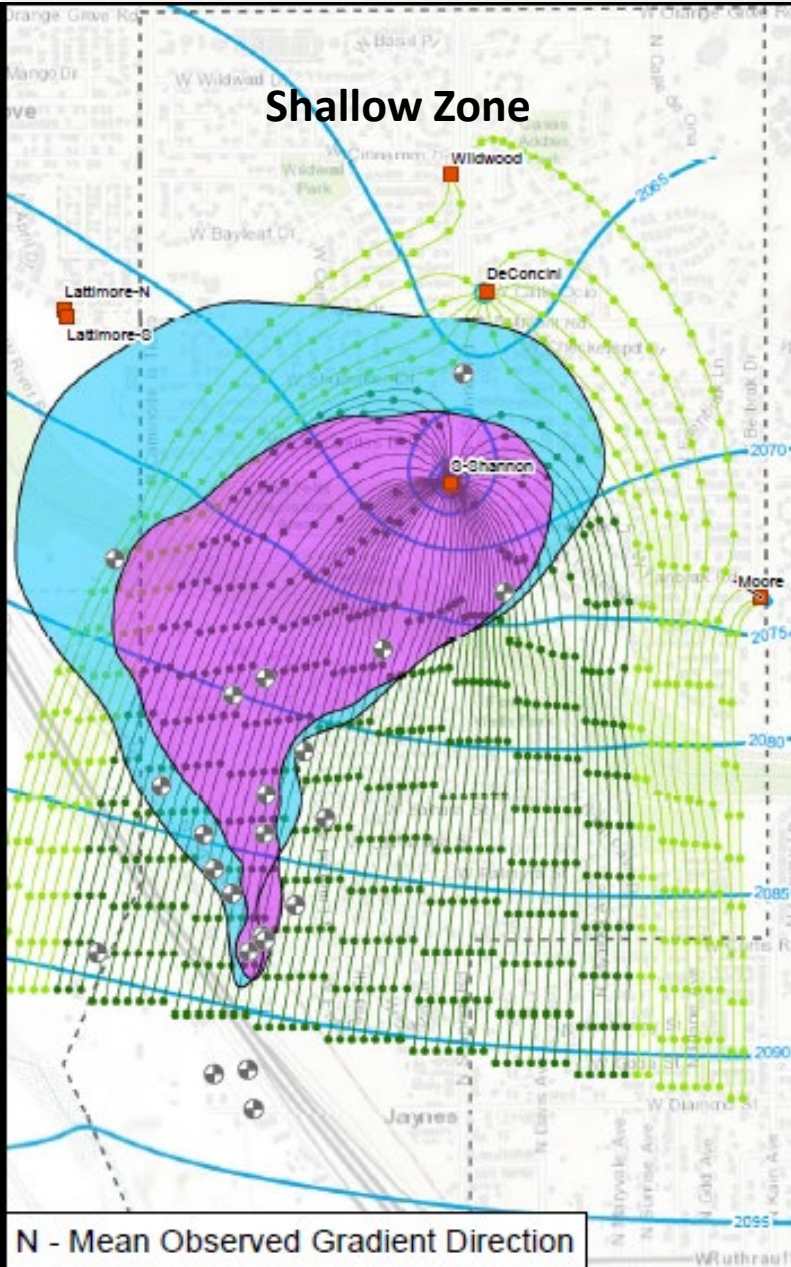


Scenario 1



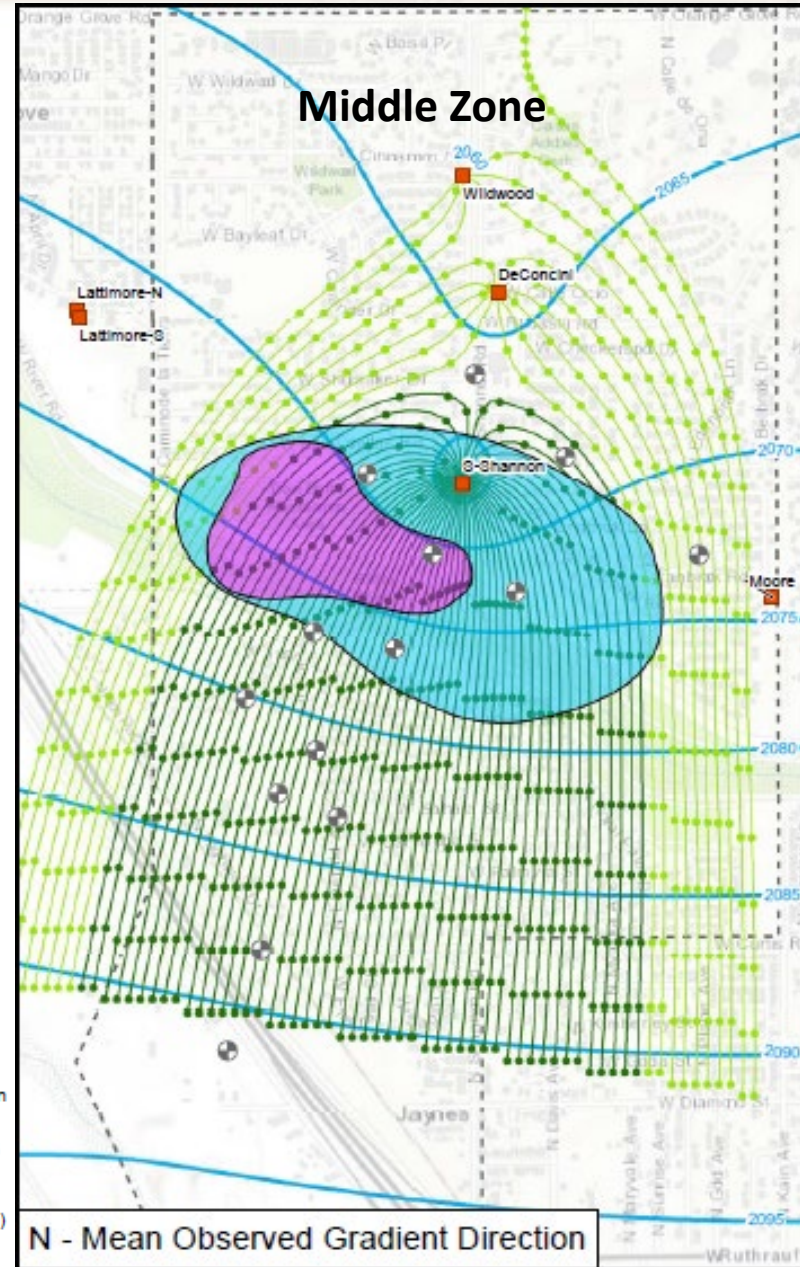
2020 Plume Capture Model

Shallow Zone

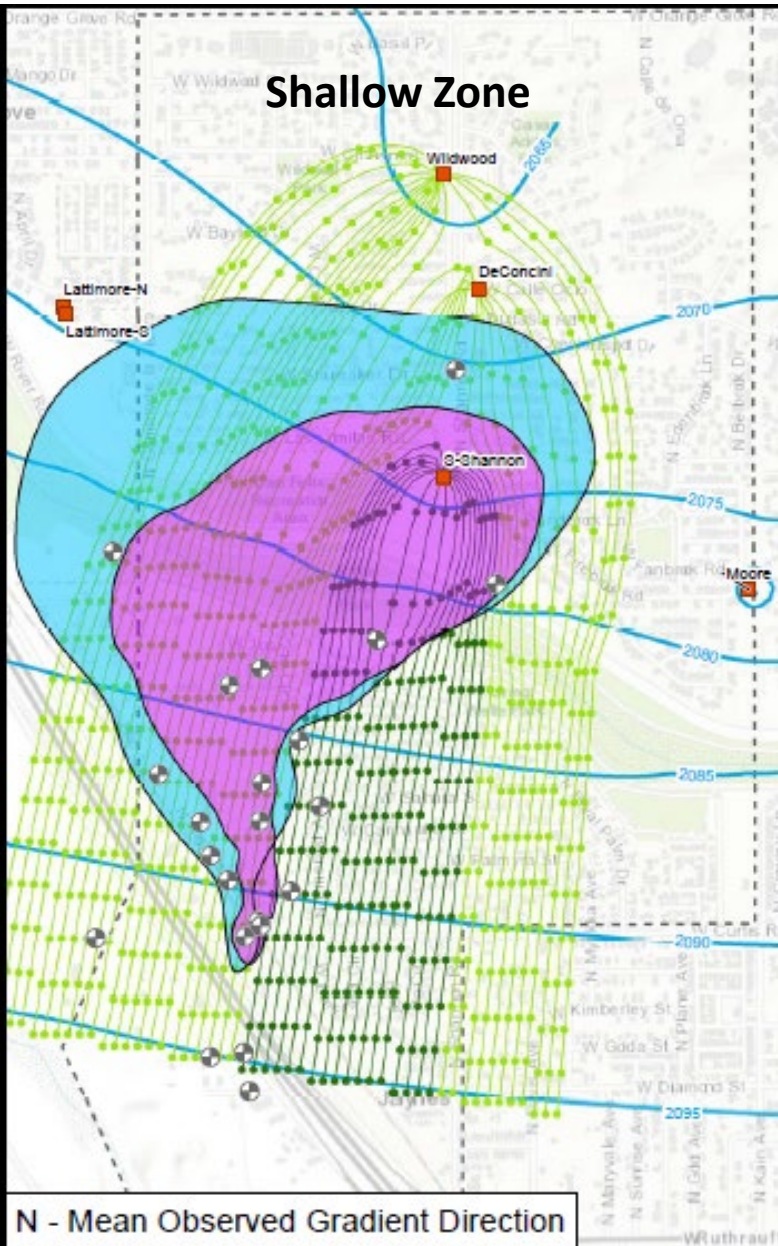


Scenario 2

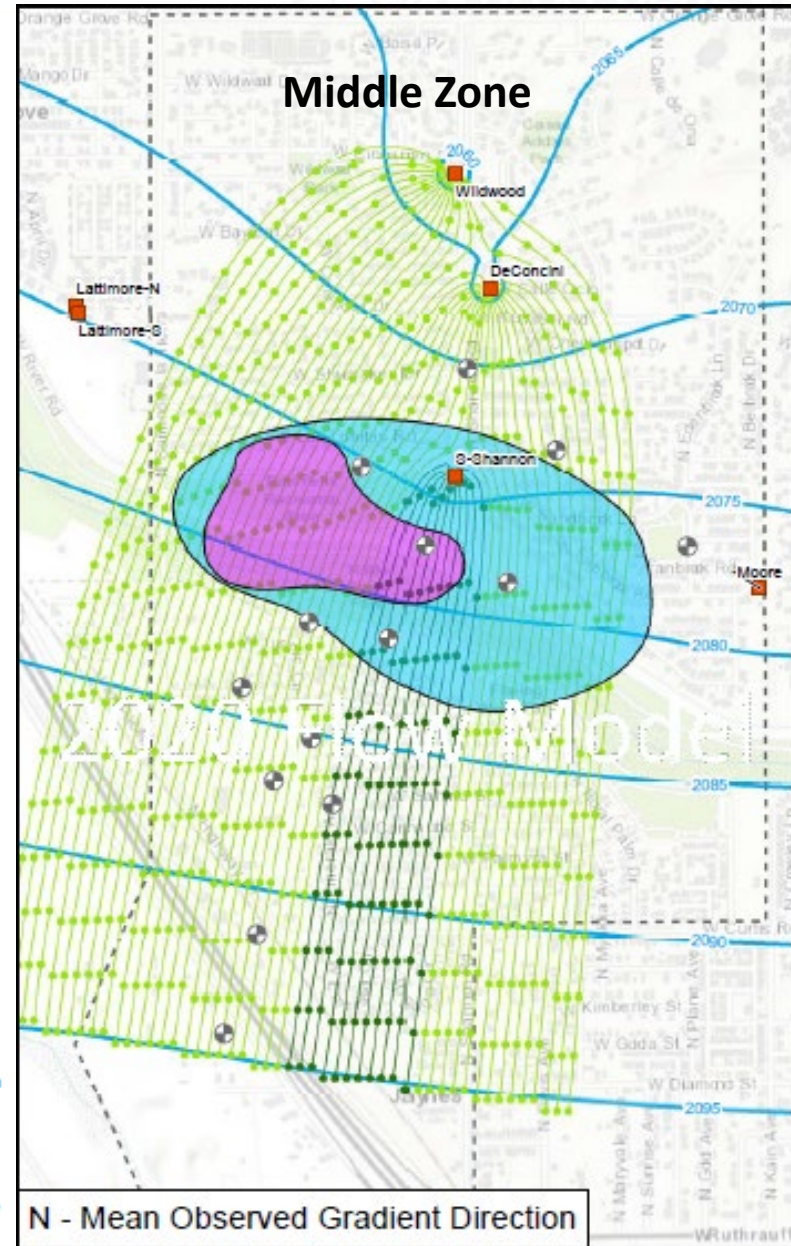
Middle Zone



2020 Plume Capture Model



Scenario 3



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