UPPER VENTURA RIVER GROUNDWATER AGENCY

NOTICE OF REGULAR MEETING

NOTICE IS HEREBY GIVEN that the Upper Ventura River Groundwater Agency ("Agency") Board of Directors ("Board") will hold a **Regular Board Meeting at 1 P.M. on Thursday, January 14, 2021 via**

ON-LINE OR TELECONFERENCE:

DIAL-IN (US TOLL FREE) 1-669-900-6833
Find your local number: https://zoom.us/u/akjGwq26V
JOIN BY COMPUTER, TABLET OR SMARTPHONE:
https://zoom.us/j/97754931308?pwd=WkNnV09GOXRuVEF3eUFZSUxmc3RZQT09
Meeting ID: 977 5493 1308 Passcode: 068626
New to Zoom, go to: https://support.zoom.us/hc/en-us/articles/206175806

PER CALIFORNIA EXECUTIVE ORDER N-29-20, SECTION 3: A local legislative body is authorized to hold public meetings via teleconferencing and to make public meetings accessible telephonically or otherwise electronically to all members of the public seeking to observe and to address the local legislative body. A physical location accessible for the public to participate in the teleconference is not required.

UPPER VENTURA RIVER GROUNDWATER AGENCY BOARD OF DIRECTORS REGULAR MEETING AGENDA

January 14, 2021

1. **MEETING CALL TO ORDER**

2. **PLEDGE OF ALLEGIANCE**

3. **ROLL CALL**

4. **APPROVAL OF AGENDA**

5. **PUBLIC COMMENT FOR ITEMS NOT APPEARING ON THE AGENDA**

   The Board will receive public comments on items not appearing on the agenda and within the subject matter jurisdiction of the Agency. The Board will not enter into a detailed discussion or take any action on any items presented during public comments. Such items may only be referred to the Executive Director or other staff for administrative action or scheduled on a subsequent agenda for discussion. Persons wishing to speak on specific agenda items should do so at the time specified for those items. In accordance with Government Code § 54954.3(b)(1), public comment will be limited to three (3) minutes per speaker.

6. CONSENT CALENDAR

All matters listed under the Consent Calendar are considered routine by the Board and will be enacted by one motion. There will be no separate discussion of these items unless a Board member pulls an item from the Calendar. Pulled items will be discussed and acted on separately by the Board. Members of the public who want to comment on a Consent Calendar item should do so under Public Comments.

a. **Approve Minutes from December 10, 2020 Regular Board Meeting**
b. **Approve Financial Report for December 2020**

7. DIRECTOR ANNOUNCEMENTS

a. **Directors may provide oral reports on items not appearing on the agenda.**
b. **Directors shall report time spent on cost-share eligible activities for the 2017 Proposition 1 Sustainable Groundwater Management Planning (SGWP) Grant.**

8. EXECUTIVE DIRECTOR'S REPORT

The Board will receive an update from the Executive Director concerning miscellaneous matters and Agency correspondence. The Board may provide feedback to staff.

9. ADMINISTRATIVE ITEMS

a. **Reappoint Agricultural Stakeholder Director**
The Member Directors will consider reappointing Emily Ayala for the Agricultural Stakeholder Director two year term beginning February 1, 2021.

b. **Reappoint Environmental Stakeholder Director**
The Member Directors will consider reappointing Larry Rose for the Environmental Stakeholder Director two year term beginning February 1, 2021.

10. GSP ITEMS

a. **Groundwater Sustainability Plan Update (Grant Category (d); Task 11: GSP Development and Preparation)**
The Board will receive an update from the Executive Director concerning groundwater sustainability plan development and consider providing feedback.

b. **GSP Workshop No. 2 (Grant Category (c); Task 10: Stakeholder Outreach and Engagement)**
The Board will consider scheduling the second GSP public workshop.

c. **GSP Newsletter Volume 2, Issue 1 (Grant Category (c); Task 10: Stakeholder Outreach and Engagement)**
The Board will consider approving GSP Newsletter Volume 2, Issue 1 for public release.

d. **Degraded Water Quality Sustainability Indicator Discussion (Grant Category (d); Task 11: GSP Development and Preparation)**
Staff will present a proposed approach for addressing the degraded water quality sustainability indicator in the forthcoming groundwater sustainability plan and the Board will consider providing feedback to staff.

11. COMMITTEE REPORTS

a. Ad Hoc Stakeholder Engagement Committee

The committee will provide an update on Stakeholder Engagement Plan implementation activities since the last Board meeting and receive feedback from the Board.

12. FUTURE AGENDA ITEMS

This is an opportunity for the Directors to request items for future Board meeting agendas.

13. ADJOURNMENT

The next scheduled Regular Board meeting is February 11, 2021.

DRAFT UPPER VENTURA RIVER GROUNDWATER AGENCY
MINUTES OF REGULAR MEETING DECEMBER 10, 2020

The Board meeting was held via teleconference, in accordance with California Executive Order N-25-20. Directors present were Bruce Kuebler, Larry Rose, Emily Ayala, Susan Rungren, Angelo Spandrio, Glenn Shephard and Chairperson Diana Engle. Also present: Executive Director Bryan Bondy, Agency Counsel Keith Lemieux, and Administrative Assistant Maureen Tucker.

ON-LINE OR TELECONFERENCE:
DIAL-IN (US TOLL FREE) 1-669-900-6833
JOIN BY COMPUTER, TABLET OR SMARTPHONE:
https://zoom.us/j/99387946489?pwd=c3VSbVJxbkhEd0dveUNPeU1URmVDUT09
Meeting ID: 993 8794 6489 Passcode: 136580
New to Zoom, go to: https://support.zoom.us/hc/en-us/articles/206175806

1) CALL TO ORDER

Chair Engle called the meeting to order at 1:03 p.m.

2) PLEDGE OF ALLEGIANCE

Chair Engle led the Pledge of Allegiance.

3) ROLL CALL

Executive Director Bondy called the roll.

Directors present: Bruce Kuebler, Larry Rose, Emily Ayala, Susan Rungren, Angelo Spandrio, Glenn Shephard, and Diana Engle.

Directors absent: None.

4) APPROVAL OF AGENDA

Chair Engle asked for any proposed changes to the agenda. No changes were requested.

Director Rungren motioned to approve the agenda. Director Shephard seconded the motion.

Roll Call Vote:	B. Kuebler – Y	L. Rose – Y	E. Ayala – Y	D. Engle - Y
	S. Rungren – Y	G. Shephard – Y	A. Spandrio – Y	

Noes: None.

5) PUBLIC COMMENTS ON ITEMS NOT APPEARING ON THE AGENDA

Chair Engle asked if there are any public comments on items not appearing on the agenda. No public comments were offered.

Agency Counsel Lemieux clarified that the public may comment on the closed session item at this time.

No public comments were offered on the closed session item.

Chair Engle adjourned the meeting to closed session at 1:11 p.m.

6) CLOSED SESSION ITEMS

a. Conference with Legal Counsel – Pending Litigation
Government Code § 54956.9, subdivision (a), (c) and (d)(1):
Upper Ventura River Groundwater Agency v. Casitas Municipal Water District
(VCSC Case No. 56-2020-00545336-CU-WM-VTA)

Chair Engle called the regular session back to order at 2:08 p.m.

Executive Director Bondy called the roll.

Directors present: Bruce Kuebler, Larry Rose, Emily Ayala, Susan Rungren, Angelo Spandrio, Glenn Shephard, Diana Engle.

Agency Counsel Lemieux reported on closed session. He noted that Director Spandrio did not participate in the closed session on advice of Agency Counsel. He explained that staff presented general settlement terms to the Board and recommended approval. The general terms include:

- Casitas Municipal Water District (CMWD) will provide certain data by December 18 in a format agreeable to the Executive Director.
- UVRGA to dismiss the litigation without seeking attorney fees.
- Agreement to meet and confer on any future records requests prior to litigation.

The Board discussed the proposal with staff and Agency Counsel.

Agency Counsel explained that Chair Engle motioned to approve the settlement terms and direct the Executive Director to sign and approve the settlement. The motion was seconded by Director Kuebler. The motion passed unanimously (6-0).

7) CONSENT CALENDAR

a. Approve Minutes from Nov. 12, 2020 Regular Board Meeting
b. Approve Financial Report for November 2020
c. Approve 2021 Regular Board Meeting Schedule

Director Kuebler motioned to approve the consent calendar. Director Rose seconded the motion.

Roll Call Vote: B. Kuebler – Y E. Ayala – Y D. Engle – Y L. Rose - Y
S. Rungren – Y G. Shephard – Y A. Spandrio – Y

Noes: None.

8) DIRECTORS ANNOUNCEMENTS

a. Directors may provide oral reports on items not appearing on the agenda.

b. Directors shall report time spent on cost-sharing eligible activities for the 2017 Proposition 1 Sustainable Groundwater Management Planning (SGWP) Grant.

Director Kuebler: No report and time.

Director Shephard: Reported that the Board of Supervisors approved State Water Contractor payment for planning and design for State Water Project Delta conveyance. No time.

Director Rungren: Reported that the Ventura City Council voted to approve State Water Contractor payment for planning and design for State Water Project Delta conveyance. She also mentioned that Ventura Water will be presenting its water rate study to its Water Commission. No time.

Director Ayala: Noted the impact of the Santa Ana winds on irrigation demand. No time.

Director Rose: No report and no time.

Director Spandrio. Noted changes to the Casitas Municipal Water District Board of Directors. No time.

Director Engle: No report and no time.

Executive Director Bondy reminded Director Spandrio that the Casitas Municipal Water District appointment to the URVGA Board is needed before the January 2021 meeting.

9) EXECUTIVE DIRECTOR'S REPORT

Executive Director Bondy briefly reviewed the written staff report with the Board.

No public comments.

Chair Engle asked if the State Water Resources Control Board (SWRCB) provided an update during the Ventura River Watershed Council meeting. Executive Director Bondy said that SWRCB staff provided a very brief status update during the introductions.

Chair Engle asked for public comments. None were offered.

No motion.

10) ADMINISTRATIVE ITEMS

a. Access For Proposed Monitoring Facilities

Executive Director Bondy explained that the Agency needs to pursue access for the monitoring sites identified in the recent Wildlife Conservation Board grant application. California Environmental Quality Act (CEQA) compliance must be completed prior to potential award on April 22, 2021. The monitoring wells sites need to be identified before CEQA can be completed.

Executive Director Bondy recommended having the Ad Hoc Stakeholder Engagement Committee work with landowners for access, if they are willing. He also referred the Board to the Template Agreement attached to the staff report and asked for Board comments on the agreement. He explained that the agreement was adapted from one that he used when he was the Groundwater Manager at Calleguas Municipal Water District, so it has previously been through legal review.

Chair Engle asked for Director comments or questions.

Director Rose said he agrees with the staff recommendation.

Director Ayala asked for a description of the monitoring wells and construction process. Executive Director Bondy provided a brief description of the proposed monitoring wells and said that he plans on developing an information packet that the committee can use to outreach to the land owners.

Director Rungren said that she has no questions.

Director Spandrio said the staff recommendation looks good to him.

Chair Engle asked whether easements are required. Executive Director Bondy stated that easements are preferred to cover the 50-year period required by the Sustainable Groundwater Management Act. Director Kuebler said that some land owners may not commit to an easement. Directors Rungren and Shephard said that easements should be pursued. Chair Engle suggested that the Stakeholder Engagement Committee can approach landowners for an easement and see how they react. Director Ayala agreed with Chair Engle.

Director Engle asked about the schedule. Executive Director Bondy said that CEQA needs to be completed by the end of March. The Agency needs to know if access is anticipated in February.

Chair Engle asked for public comments. None were offered.

Director Rose motioned to direct the Ad Hoc Stakeholder Engagement Committee to pursue access for monitoring wells. The motion was seconded by Director Ayala.

Roll Call Vote: B. Kuebler – Y E. Ayala – Y D. Engle – Y L. Rose - Y
S. Rungren – Y G. Shephard – Y A. Spandrio – Y

Noes: None.

11) GSP ITEMS

a. Groundwater Sustainability Plan Update (Grant Category (d); Task 11: GSP Development and Preparation)

Executive Director Bondy reviewed the written staff report with the Board. He added that he plans to develop the next GSP Newsletter in early 2021.

Chair Engle asked for Director comments or questions. None were offered.

Chair Engle asked for public comments. None were offered.

No motion.

b. Subsidence Sustainability Indicator Discussion (Grant Category (d); Task 11; GSP Development and Preparation)

Executive Director Bondy briefly reviewed the written staff report with the Board, which recommends screening out the subsidence sustainability indicator, but including subsidence monitoring in the Groundwater Sustainability Plan.

Chair Engle asked for Director comments or questions.

Director Spandrio said the proposed approach is a good one.

Chair Engle asked for public comments. None were offered.

Director Rose motioned to direct staff to prepare the GSP consistent with the staff report. Seconded by Director Rungren.

Roll Call Vote: B. Kuebler – Y E. Ayala – Y D. Engle – Y L. Rose - Y
S. Rungren – Y G. Shephard – Y

Noes: None.

Absent: Director Spandrio (experienced temporary technical difficulties toward the end of the item).

Chair Engle temporarily adjourned the meeting for a five minute break.

c. Discussion of Assumptions for 50-year future model simulations (Grant Category) (d): Task 11: GSP Development and Preparation)

Executive Director Bondy provided a presentation covering the materials in the staff report (copies of the slides are attached to these minutes). The presentation described assumptions for simulation of the 50-year projected water budgets for the GSP, including selection of the representative hydrologic periods, assumptions concerning future water demands, analysis of climate change, land use, and population growth impacts on future water demands, assumptions concerning future groundwater pumping, and analysis of climate change, land use, and population growth impacts on future groundwater pumping.

Director Ayala left the meeting during the item at 3:30 p.m.

The Board discussed how much conservation should be assumed during future non-drought periods. Several Directors felt that future water demand during non-drought periods will be more than the 10% less than 1995-2009 demands proposed by staff. After discussion the Board reached a consensus to assume future water demand during non-drought periods will be 15% less than 1995-2009 demands.

Public Comment: Burt Handy said that per capita water demand will be 55 gallons per day per person.

The Board discussed the proposed future groundwater pumping assumptions for the water districts and City of Ventura. Director Kuebler said that Ventura River Water District pumping should be 950 acre feet per year during non-drought periods. Director Spandrio said that he does not anticipate comments from Casitas Municipal Water District concerning assumed pumping for the Mira Monte well. Chair Engle said that Meiners Oaks Water District (MOWD) non-drought pumping should be the average of 2011, 2012, and 2013. Director Rungren said that the City of Ventura agrees with the staff recommendations for the City's future pumping assumptions. Executive Director Bondy will check on suspected errors in the MOWD values on Figure 4 of the staff report.

No motion.

12) COMMITTEE REPORTS

a. Ad Hoc Stakeholder Engagement Committee

Director Rose stated that there is nothing to report at this time.

13) FUTURE AGENDA ITEMS

No items were identified.

Chair Engle wished everyone a safe holiday and thanked staff for its hard work. The next meeting is scheduled for January 14, 2021.

14) ADJOURNMENT – The meeting was adjourned at 4:33 p.m.

Action: _____

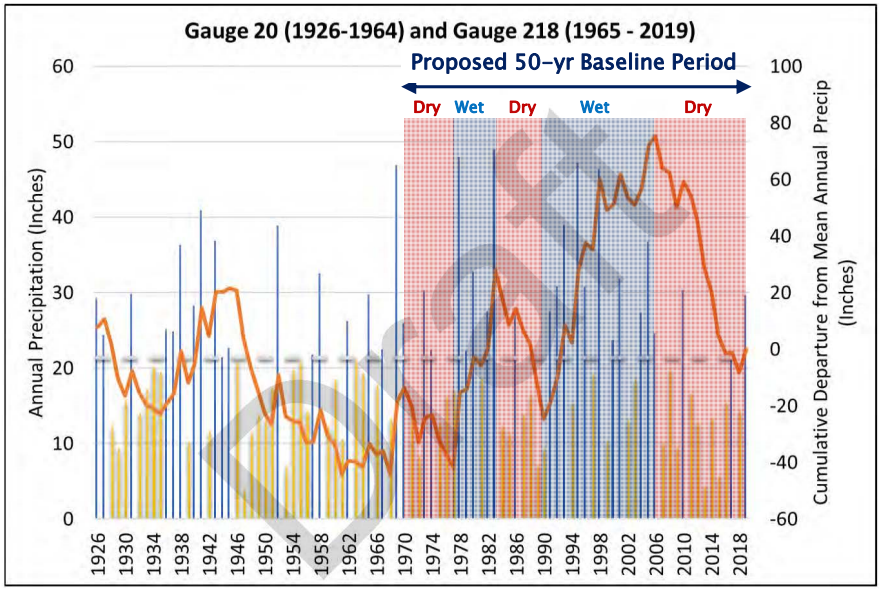
Motion: _____ Second: _____

B.Kuebler____ D.Engle____ A.Spandrio____ S.Rungren____ G.Shephard____ E.Ayala____ L.Rose___

UVRGA
December 10, 2020
Item 10
Assumptions for 50-yr Simulations and Water Budget

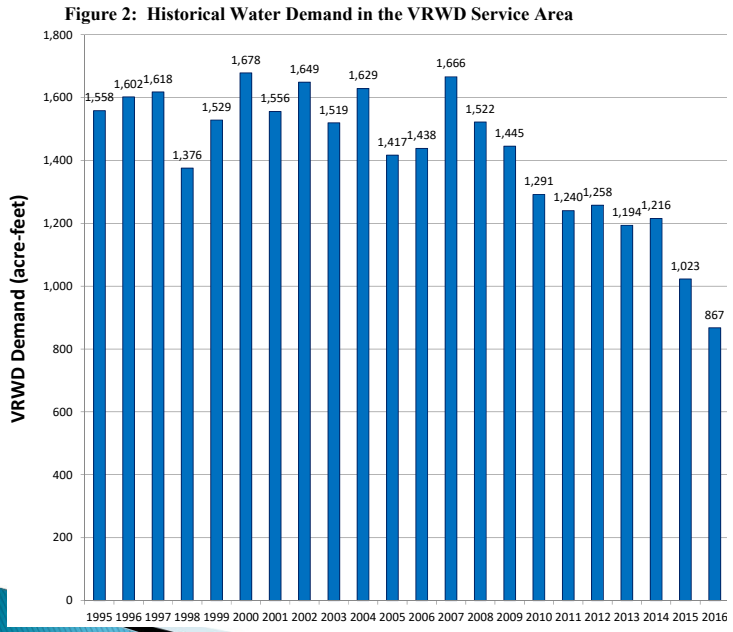
Projected Hydrology

- 50-year historical period required
- Factors to consider
  - data availability,
  - stream alterations that impact flows (e.g. dams),
  - changes in land use that impact runoff and percolation,
  - watershed fires that impact runoff,
  - wet-dry cycles
- 1970-2019 best addresses the factors



Water Demand

- Required, but not critical for UVRGA
  - Pumping estimated separately from demands
  - Affects calculation of return flows, which are small
- Agriculture
  - Mapped areas & 2.0 acre-feet per acre per UC Coop.
- Domestic/Commercial
  - Use VRWD deliveries to estimate for entire basin
    - Dry Periods: Use 2015-2020
    - Non-Dry Periods: Assume 1995-2009 less 10% to account for anticipated conservation



Water Demand

- Uncertainty factors that must be assessed
  - Climate change
  - Land Use
  - Population Growth

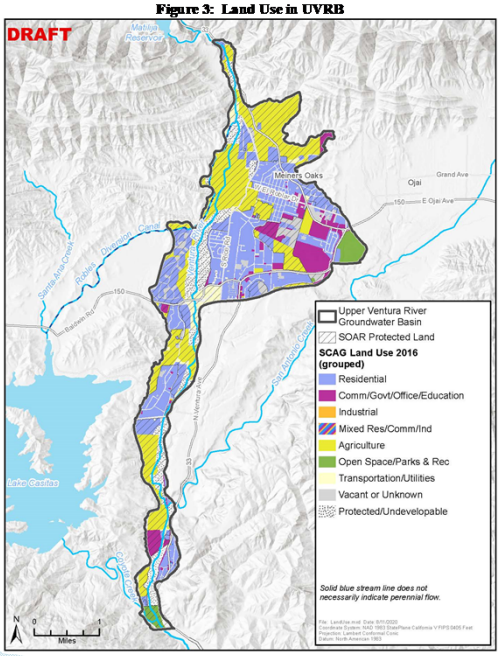
Climate Change Effect on Demand

- Agriculture:
  - Change based on DWR change factors
- Domestic / Commercial
  - Assume no impact (see staff report for justification)

Land Use Change Effect on Demand

- Assume no impact due to SOAR

Figure 3: Land Use in UVRB



Population Growth Effect on Demand

- Assume no material increase in population

Table 1: City of Ojai Population

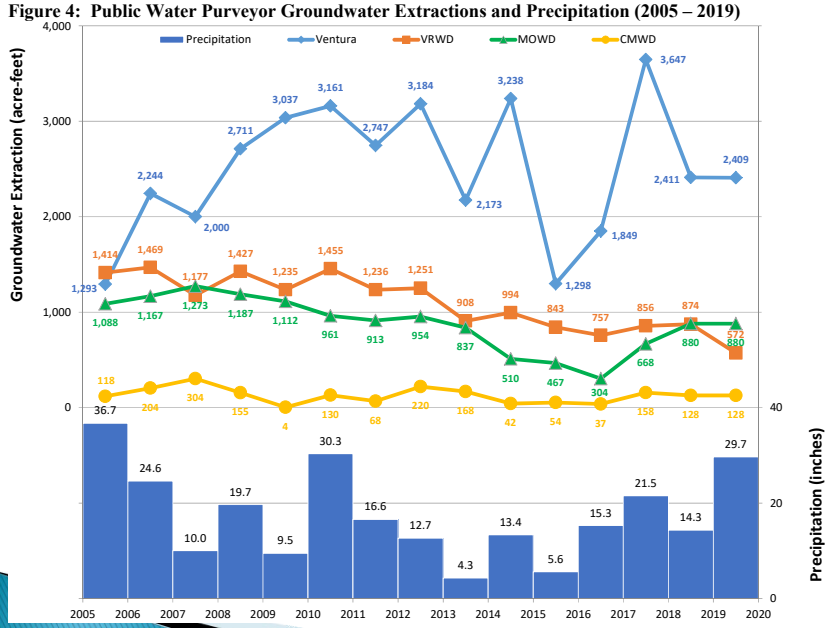
Census	Population
1970	5,591
1980	6,816
1990	7,613
2000	7,862
2010	7,461
2019*	7,470

* = Estimated
Source: US Census Bureau

Groundwater Extraction

- Domestic and mutual water companies – assume constant
  - Domestic – 2 AFY
  - Mutuals – at 2017 reported volumes
- Agriculture – per 2017, adjusted for rainfall
- Districts and Cities
  - Slides to follow

Figure 4: Public Water Purveyor Groundwater Extractions and Precipitation (2005 – 2019)



Districts and City of Ventura

Table 2: Proposed Water Purveyor Baseline Groundwater Extractions for 50-Year Future Conditions Modeling

Purveyor	Extraction Drought (AFY)	Extraction Non-Drought (AFY)
CMWD	45	188
MOWD	487	1,055
VRWD	863	1,286
City of Ventura*	1,573	4,200
* Includes subsurface intake		

Groundwater Extraction Uncertainty

- Land Use and Population – not anticipated to impact pumping
- Climate Change
  - Ag – use DWR climate change info to adjust
  - Districts and Cities – Assume any increased demand for outdoor is offset by increased future conservation or addressed by other supplies
  - Others – too small to worry about

UPPER VENTURA RIVER GROUNDWATER AGENCY Item No. 6(b)

DATE: January 8, 2021

TO: Board of Directors

FROM: Carrie Troup C.P.A., Treasurer

SUBJECT: Approve Financial Report for December 2020

November 2020 UVRGA Balance			$	256,857.52
December 2020 Activity:				
Revenues:				
	Groundwater Extraction Fees		$	910.34
December Expenditures Paid:				
EFT	Go Daddy.com		$	199.99
Checks Pending Signature:				
2156	Bondy Groundwater Consulting, In	December services	$	13,260.00
2157	Olivarez, Madruga, Lemieux, O'Ne	November services	$	3,224.25
2158	Intera Incorporated	November services	$	18,455.00
2159	Carrie Troup, C.P.A.	December services	$	1,275.50
2160	Mitec Solutions	Email Hosting	$	2,446.56
2161	Mitec Solutions	Remote PC labor	$	47.50
2162	Intera Incorporated	December services	$	21,678.00
2163	Rincon Consultants, Inc.	November services WO#2	$	1,625.80
2164	Rincon Consultants, Inc.	December services WO#2	$	3,020.00
2165	Rincon Consultants, Inc.	November services WO#1	$	1,541.25
2166	Rincon Consultants, Inc.	December services WO#3	$	3,643.54
Total Expenditures Paid & To Be Paid December			$	70,217.40
December 2020 UVRGA Ending Balance:			**$**	**187,350.47**

Action: _____

Motion: _____ Second: _____

B. Kuebler___ G. Shephard___ D. Engle___ A. Spandrio___ S. Rungren___ L. Rose___ E. Ayala___

The financial report omits substantially all disclosures required by accounting principles generally accepted in the United States of America; no assurance is provided on them.

UPPER VENTURA RIVER GROUNDWATER AGENCY Item No. 8

DATE: January 14, 2021

TO: Board of Directors

FROM: Executive Director

SUBJECT: Executive Director's Report

SUMMARY
The following are updates on Agency matters since the last Board meeting:

1. Administrative: ***Nothing to report.***

2. Financial:

    a. Groundwater Extraction Fees: The third round of extraction fee invoices was mailed on July 16. Payments were due August 16. ***Payment was received by one entity in December. One entity remains unpaid, totaling $870.76***

    b. Audit: ***Fiscal Year 19/20 audit activities continued.***

    c. GSP Grant: ***Grant Progress Report and Invoice No. 6 were submitted to DWR on November 5 and approved on December 24. Payment in the amount of $80,848.22 is expected in 1-2 months.***

3. Legal:

    a. ***Counsel worked on the board-approved settlement for Case No. 56-2020-00545336-CU-WM-VTA.***

    b. Legal review and recommendations for addressing Endangered Species Act and Public Trust Doctrine issues in the GSP is ongoing.

4. Sustainable Groundwater Management:

    a. Groundwater Sustainability Plan Development: ***Please see Item 10a.***

    b. Groundwater and Surface Water Monitoring: ***Groundwater level data collected during water year 19/20 are being processed.***

    c. Camino Cielo Crossing Surface Water Flow Gauge: ***Gauge infrastructure installation was completed in December.***

    d. DWR Surface Water Flow Gauge: ***DWR is exploring alternative gauge sites due to access issues***.

5. Wildlife Conservation Board (WCB) Grant: ***WCB is expected to announce grant awards on April 22. CEQA compliance for proposed monitoring well sites must be completed at least 15 days prior. The Executive Director provided information to the Ad Hoc Stakeholder Engagement Committee to pursue access for the monitoring sites. The Executive Director also requested a proposal from Rincon for CEQA compliance. Determining whether access is anticipated for the monitoring sites is a prerequisite to completing the CEQA documentation.***

6. SWRCB / CDFW Instream Flow Enhancement Coordination: ***No reportable activity since the last Board meeting.***

7. Ventura River Watershed Instream Flow & Water Resilience Framework (VRIF): ***No reportable activity since the last Board meeting.***

8. Miscellaneous: ***Nothing to report.***

RECOMMENDED ACTIONS
Receive an update from the Executive Director concerning miscellaneous matters and Agency correspondence. Provide feedback to staff.

BACKGROUND
Not applicable

FISCAL SUMMARY
Not applicable

ATTACHMENTS
None

Action: _____

Motion:_____ Second: _____

B. Kuebler___ D. Engle___ A. Spandrio___ S. Rungren___ G. Shephard___ E. Ayala___ L. Rose___

UPPER VENTURA RIVER GROUNDWATER AGENCY Item No. 9(a)

DATE: January 14, 2021

TO: Member Directors

FROM: Staff

SUBJECT: Reappoint Agricultural Stakeholder Director

SUMMARY

The Member Directors will consider reappointing Emily Ayala for the Agricultural Stakeholder Director two year term beginning February 1, 2021 or call for nominations from the Farm Bureau of Ventura County.

RECOMMENDED ACTIONS

Reappoint Emily Ayala for the Agricultural Stakeholder Director two year term beginning February 1, 2021 or call for nominations from the Farm Bureau of Ventura County.

BACKGROUND

Pursuant to Joint Exercise of Powers Agreement (JPA) Section 6.5, Emily Ayala may be reappointed as the Agricultural Stakeholder Director by an affirmative vote of all Member Directors. If the Member Directors do not reappoint Emily Ayala, Member Directors shall select the Agricultural Stakeholder Director from a list of three qualified nominees submitted by the Farm Bureau of Ventura County (JPA Section 6.3.6(a)) at a future regular meeting.

FISCAL SUMMARY

None.

Action: _____

Motion:_____ Second: _____

B. Kuebler___ A. Spandrio___ G. Shephard___ D. Engle___ S. Rungren___

UPPER VENTURA RIVER GROUNDWATER AGENCY Item No. 9(b)

DATE: January 14, 2021

TO: Member Directors

FROM: Staff

SUBJECT: Reappoint Environmental Stakeholder Director

SUMMARY

The Member Directors will consider reappointing Larry Rose for the Environmental Stakeholder Director two year term beginning February 1, 2021 or call for nominations from environmental nonprofit, 501(c)(3) organizations.

RECOMMENDED ACTIONS

Reappoint Larry Rose for the Environmental Stakeholder Director two year term beginning February 1, 2021 or call for nominations from environmental nonprofit, 501(c)(3) organizations.

BACKGROUND

Pursuant to Joint Exercise of Powers Agreement (JPA) Section 6.5, Larry Rose may be reappointed as the Environmental Stakeholder Director by an affirmative vote of all Member Directors. If the Member Directors do not reappoint Larry Rose, Member Directors shall select the Environmental Stakeholder Director from qualified nominees submitted by environmental nonprofit, 501(c)(3) organizations (JPA Section 6.3.6(b)) at a future regular meeting.

FISCAL SUMMARY

None.

Action: _____

Motion:_____ Second: _____

B. Kuebler___ A. Spandrio___ G. Shephard___ D. Engle___ S. Rungren___

UPPER VENTURA RIVER GROUNDWATER AGENCY Item No. 10(a)

DATE: January 14, 2021

TO: Board of Directors

FROM: Executive Director

SUBJECT: Groundwater Sustainability Plan Update (Grant Category (d); Task 11: GSP Development and Preparation)

SUMMARY

Progress on the Groundwater Sustainability Plan (GSP) since the last update includes the following:

1. **GSP**:

    a. Intera continued to work on construction and calibration of the groundwater-surface water numerical model.

    b. The Executive Director developed recommended sustainable management criteria for the degraded water quality sustainability indicator (please see Item 10(d)).

2. **Outreach**: The Executive Director developed draft GSP Newsletter Volume 2, Issue 1 (please see Item 10(c)) and began planning for the second GSP public workshop (please see Item 10(b)).

3. **GSP Development Schedule**: The updated GSP Development Schedule is provided in Attachment A. The schedule was updated based on progress to date.

4. **GSP Grant Data Gap Tasks**:

    a. Establish Well Monitoring Network: Rincon worked on preparing the third, and final, water year annual data report required under the grant. The data report will be submitted in early 2021.

    b. All other data gap tasks in the grant have been completed or were deleted upon approval of the grant agreement amendment.

RECOMMENDED ACTIONS

Receive an update from the Executive Director concerning groundwater sustainability plan development and consider providing feedback.

BACKGROUND

Not applicable.

FISCAL SUMMARY
Not applicable.

ATTACHEMENTS

A. GSP Development Schedule

Action: _____

Motion:_____ Second: _____

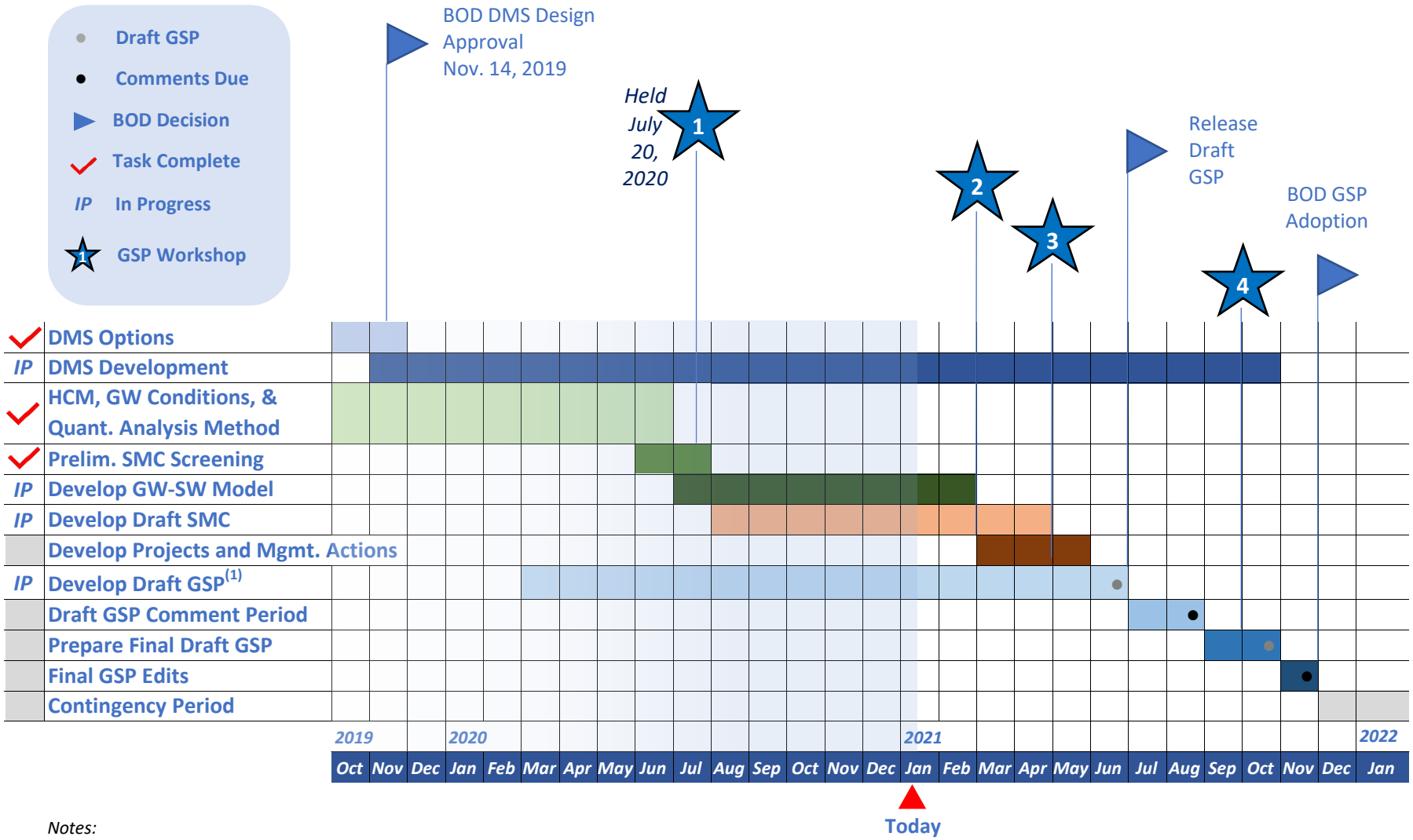
B. Kuebler___ D. Engle___ A. Spandrio___ S. Rungren___ G. Shephard___ E. Ayala___ L. Rose___

Item 10a

Attachment A

GSP Development Schedule

Upper Ventura River Groundwater Agency
GSP Development Schedule Updated January 9, 2020



Notes:

(1) GSP topics not listed above generally consist of background or supporting information and will be prepared concurrently with the above-listed tasks.

BOD = Board of Directors; DMS = Data Management System; HCM = Hydrogeologic Conceptual Model; GSA = Groundwater Sustainability Agency; GSP = Groundwater Sustainability Plan; GW = Groundwater; SW = Surface Water

UPPER VENTURA RIVER GROUNDWATER AGENCY Item No. 10(b)

DATE: January 14, 2021

TO: Board of Directors

FROM: Executive Director

SUBJECT: GSP Workshop No. 2 (Grant Category (c); Task 10: Stakeholder Outreach and Engagement)

SUMMARY

Staff recommends scheduling the second GSP workshop in late February or early March. Likely topics will include an overview of sustainable management criteria, presentation of criteria for the degraded water quality sustainability indicator, and a summary of the numerical model construction and calibration. Water budget and the 50-year future model simulation results will be included, if available.

The first workshop started at 4pm and was well attended. The Executive Director and Intera staff are available for a workshop beginning no earlier than 4pm on the following dates:

- Monday, February 22*
- Tuesday, February 23*
- Wednesday, February 24
- Monday, March 1*
- Tuesday, March 2*
- Wednesday, March 3
- Thursday, March 4*

Preferred dates are indicated with an asterisk.

RECOMMENDED ACTIONS
Consider scheduling the second GSP public workshop.

BACKGROUND
Not applicable.

FISCAL SUMMARY
GSP workshops are included in the Agency's approved budget

Action: _____

Motion:_____ Second: _____

B. Kuebler___ D. Engle___ A. Spandrio___ S. Rungren___ G. Shephard___ E. Ayala___ L. Rose___

UPPER VENTURA RIVER GROUNDWATER AGENCY Item No. 10(c)

DATE: January 14, 2021

TO: Board of Directors

FROM: Executive Director

SUBJECT: GSP Newsletter Volume 2, Issue 1 (Grant Category (c); Task 10: Stakeholder Outreach and Engagement)

SUMMARY

Staff recommends approving GSP Newsletter Volume 2, Issue 1 for public release. The newsletter will be mailed with groundwater extraction fee invoices next week, emailed to the interested parties list, and posted on the Agency website.

Prior to issuing, staff will update the newsletter with information about GSP Workshop No. 2, if scheduled (please see Item 10(b)).

The draft newsletter was reviewed by the Ad Hoc Stakeholder Engagement Committee.

RECOMMENDED ACTIONS

Consider approving GSP Newsletter Volume 2, Issue 1 for public release.

BACKGROUND

Not applicable.

FISCAL SUMMARY

Newsletters are included in the Agency's approved budget

ATTACHEMENTS

A. Draft Newsletter Volume 2, Issue 1

Action: _____

Motion:_____ Second: _____

B. Kuebler___ D. Engle___ A. Spandrio___ S. Rungren___ G. Shephard___ E. Ayala___ L. Rose___

Item 10c

Attachment A

Draft GSP Newsletter Volume 2, Issue 1

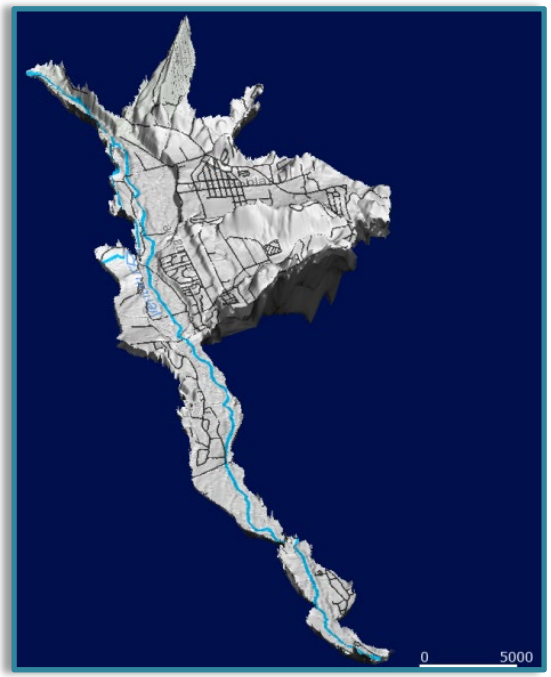
Upper Ventura River GROUNDWATER AGENCY
SUSTAINABLE MANAGEMENT
https://uvrgroundwater.org/

Winter Newsletter
January 2021
Volume 2, Issue 1

Groundwater Sustainability Plan Development Update

Your Groundwater Sustainability Plan (GSP) development team remains hard at work developing the GSP for the Upper Ventura River Groundwater Basin (UVRB). The GSP will describe the groundwater basin, goals for sustainable management of the basin groundwater resources, and an implementation plan to achieve those goals by no later than 2042. A significant portion of the GSP development costs are covered by a Proposition 1 Groundwater Sustainability Planning Grant from the State. The GSP must be submitted to the California Department of Water Resources on or before January of 2022, otherwise the State Water Resources Control Board will take over management of the Basin. Thus, the GSP presents an opportunity for locals to decide how the UVRB should be managed and local participation is key to the process. For more information about our overall GSP planning process, please see our GSP development schedule at: https://uvrgroundwater.org/sgma-overview/.

Since our last newsletter, the GSP development team completed a draft of the hydrogeologic conceptual model (HCM) and groundwater conditions sections of the GSP. These sections describe the physical attributes of the Basin, groundwater levels, and groundwater quality. This information is being used to help develop the sustainable management criteria for the Basin. The HCM and groundwater conditions sections were posted on-line at https://uvrgroundwater.org/sgma-overview/ and are available for review and comment by stakeholders. Please use our online comment form on the page listed above form to submit your comments or questions.



Also since our last newsletter, the GSP development team has been focused on developing a numerical model to simulate groundwater and surface water conditions in the Basin. The model will be completed in early 2021 and will be used to simulate 50 years of future groundwater conditions to help evaluate whether projects or management actions will be necessary for sustainable management of the Basin. On December 10, the UVRGA Board received a presentation from staff concerning assumptions for the 50-year model simulations and provided feedback.

Lastly, the Agency began developing sustainable management criteria (SMC) for the Basin. Please see Page 2 for more information about the SMC.

UVRGA has Entered the Most Important Phase of the GSP Planning Process – Developing Sustainable Management Criteria for the Basin.

Your Participation is Very Important to the Planning Process!

*****Stay Tuned*****
Upcoming GSP Public Workshops

Several workshops will be held in 2021 to present key GSP aspects and give opportunities for questions and to provide feedback on the plan. Your active participation is highly encouraged!

Please monitor our website for workshop scheduling: https://uvrgroundwater.org/

Get Involved!

At the core of SGMA is the idea that locals should make groundwater management decisions, not the State. Your input is critical for ensuring the UVRGA GSP reflects local values. Please join our interested parties list at: https://uvrgroundwater.org/join-interested-parties-list/ or contact our Executive Director, Bryan Bondy for more information at: bbondy@uvrgroundwater.org

Board Meetings

Regular Board Meetings are scheduled monthly on the second Thursday. Please visit our website for more information.

To receive Board meeting agendas via e-mail, please join our interested parties list at: https://uvrgroundwater.org/join-interested-parties-list/

Sustainable Management Criteria

As discussed in our prior newsletter, The GSP must include Sustainable Management Criteria (SMC) for each of the six applicable sustainability indicators. SMC are the most important part of the GSP because they define conditions in the basin that are to be avoided and conditions that are desirable to achieve.

UVRGA began developing the SMC for the Basin in mid-2020. The UVRGA Board began this process in June by receiving an overview of SMC requirements. The UVRGA Board then released a draft Sustainability Goal for public comment on June 23 and adopted the goal on August 13. The sustainability goal can be viewed at https://uvrgroundwater.org/uvrga-sustainability-goal-adopted-8-13-20/.

On August 13, the UVRGA staff presented an initial screening of the sustainability indicators to the Board. The seawater intrusion sustainability indicator was eliminated for further consideration due to the physical impossibility of seawater intrusion into the Basin. On December 10, UVRGA staff presented an approach for addressing the subsidence sustainability indicator. It was proposed that the subsidence sustainability indicator be screened out because there is a very low potential for subsidence in the Basin. SMC will not be developed for the subsidence indicator, but subsidence monitoring will be included in the GSP and will be used to reevaluate this decision every five years. Staff plans to present SMC for the degraded water quality indicator to the Board in January 2021. The remaining indicators will be addressed once groundwater modeling results are available.

Groundwater and Surface Water Monitoring Grant Pursued by UVRGA

In October 2020, UVRGA applied for a $3.8M grant from the Wildlife Conservation Board to fund construction a groundwater/surface water interaction monitoring network and two years of baseline monitoring. The grant could fund up to seventeen groundwater monitoring well clusters along the Ventura River and three stream gauges to address data gaps in the Basin. The grant scope also includes two years of baseline monitoring of groundwater levels, stream flow, and water quality. Addressing data gaps and monitoring are required by the Sustainable Groundwater Management Act and this grant would provide a significant cost savings to the region. The data will also be used to update and improve the UVRGA groundwater model of the basin and update the GSP, which is required by 2027. The monitoring facilities and baseline data will also be available to others working on projects in the region, such as the State Water Resources Control Board, Watershed Instream Flow Enhancement & Water Resiliency Regional Framework (VRIF), and the Ventura River Watershed Council. UVRGA will be reaching out to landowners to seek access for construction of the proposed monitoring facilities.

UPPER VENTURA RIVER GROUNDWATER AGENCY Item No. 10(d)

DATE: January 14, 2021

TO: Board of Directors

FROM: Executive Director

SUBJECT: Degraded Water Quality Sustainability Indicator Discussion (Grant Category (d); Task 11: GSP Development and Preparation)

SUMMARY

This staff report presents proposed sustainable management criteria (SMC) for the degraded water quality sustainability indicator.

<u>Overview</u>

The Sustainable Groundwater Management Act (SGMA) requires that Groundwater Sustainability Agencies (GSAs) address impacts on beneficial uses caused by groundwater pumping that spreads contaminant plumes or causes dissolved constituent concentrations to increase to levels that could impact beneficial uses.

Thankfully, there are no known contaminant plumes in the Upper Ventura River Basin (UVRB). However, nitrate, a non-point source contaminant, is a concern in the Mira Monte/Meiners Oaks Area where nitrate concentrations in several wells regularly exceed the maximum contaminant level (MCL) (median Nitrate-N concentrations between approximately 11 milligrams per liter (mg/L) and 15 mg/L versus the 10 mg/L MCL). Elevated nitrate concentrations are currently mitigated by blending with other water sources. The vast majority of the remaining wells in the Basin typically have median Nitrate-N concentrations below 5 mg/L.

Boron concentrations are locally elevated in the Kennedy Area and are a concern for agricultural beneficial uses. The source of boron is natural and comes from the Matilija drainage via the Ventura River. Boron concentrations are lower in the remainder of the Basin.

Overall, UVRB groundwater water quality does not appear to pose any widespread significant and unreasonable effects on beneficial uses across the Basin. However, concentrations of constituents of potential concern are known to increase with decreasing groundwater levels. Therefore, significant and unreasonable effects on beneficial uses could potentially occur if the basin was pumped such that groundwater levels are consistently low. Therefore, the degraded water quality sustainability indicator cannot be screened out and SMC must be established.

When developing SMC for the degraded water quality sustainability indicator, the Agency must consider local, state, and federal water quality standards. It is noted that the Agency is required to consider, but not necessarily adopt, such standards. Justification must be provided in cases where the SMC do not align with other regulatory standards. The applicable standards for

consideration include drinking MCLs and Secondary MCLs and Regional Water Quality Control Board (RWQCB) water quality objectives (WQOs). WQOs have been established for nitrate, total dissolved solids (TDS), chloride, sulfate, and boron at levels that are designed to protect general water quality in the Basin (RWQCB, 2019). The drinking water standards and RWQCB WQOs for the above-listed constituents are generally met in the Basin, with some exceptions, particularly boron in the Kennedy Area and nitrate in a few wells in the Mira Monte/Meiners Oaks Area.

Proposed SMCs

The following sections step through the required elements of the SMC analysis for the degraded water quality sustainability indicator.

Undesirable Results

Current groundwater quality supports beneficial uses in the Basin, except in localized areas. The localized groundwater quality issues are not the direct result of groundwater pumping. Therefore, it does not appear that significant or unreasonable groundwater quality degradation has occurred in the UVRB as a result of groundwater pumping.

Causes of Groundwater Conditions that Could Lead to Undesirable Results

It is observed that concentrations of common ions and nitrate tend to increase when groundwater levels are low. Therefore, it is concluded that undesirable results could potentially occur if the basin was pumped such that groundwater levels are maintained at a consistently low level.

Potential Effects on Beneficial Uses and Users

Potential effects on municipal beneficial uses would be increased costs for treatment or blending to meet drinking water standards if nitrate was to impact additional wells. Potential effects on agricultural beneficial uses could include lower quality crops, increased water use to meet leaching requirements, and implementation of treatment or blending. All of the potential effects on agricultural beneficial uses would result in increased costs and potential impacts on lease rates and land values.

Criteria Used to Define Undesirable Results

The effects of groundwater conditions deemed indicate potential undesirable results is considered to occur when two-thirds (2/3) of the primary water quality monitoring wells exceed the minimum threshold concentration for a constituent for two consecutive years.

Minimum Thresholds

The minimum threshold for degraded water quality shall be the degradation of water quality, including the migration of contaminant plumes that impair water supplies or other indicator of water quality as determined by the Agency that may lead to undesirable results. The minimum thresholds shall be based on the number of supply wells, a volume of water, or a location of an

isocontour that exceeds concentrations of constituents determined by the Agency to be of concern for the basin. In setting minimum thresholds for degraded water quality, the Agency shall consider local, state, and federal water quality standards applicable to the basin

Criteria Used to Define Minimum Thresholds

- Primary MCLs: Applicable to nitrate only. It is desirable to maintain existing water quality at levels suitable potable water for human consumption for current and future beneficial uses. Widespread occurrence of nitrate in excess of the MCL is considered a significant and unreasonable effect.

- Secondary MCLs: Applicable to TDS, sulfate, and chloride. It is desirable to maintain water quality at levels acceptable to consumers. Widespread occurrence of TDS, sulfate, or chloride concentrations in excess of the Upper Consumer Acceptance Level would be considered a significant and unreasonable effect because domestic well owners have limited ability to blend with other sources.

- RWQCB WQOs: These standards are designed to protect beneficial uses and preserve existing water quality at the time of RWQCB Basin Plan development from degradation, consistent with the Porter-Cologne Act and State Water Resources Control Board Antidegradation Policy (Resolution No. 68-16). WQOs have been established for nitrate, total dissolved solids (TDS), chloride, sulfate, and boron and are listed in Table 1.

  A special consideration for the UVRB is groundwater that discharges to the Ventura River, predominantly in the Santa Ana and Casitas Springs Hydrogeologic Areas. The RWQCB Basin Plan has established a 5 milligram per liter (mg/L) WQO for nitrate (as N) in surface water to protect beneficial uses of surface water. This surface water WQO should be considered when establishing SMC for the Santa Ana and Casitas Springs Hydrogeologic Areas.

- Agricultural Thresholds: Certain crops grown in the Basin are sensitive to boron and chloride in irrigation water. Widespread boron and chloride concentrations in excess of toxicity thresholds would be considered a significant and unreasonable effect. The upper toxicity threshold for boron for commonly grown crops in the Basin is 0.75 mg/L (see footnote no. 5 on Table 1). A toxicity threshold of 125 mg/L for chloride is recommended based on literature review (see footnote no. 4 on Table 1).

- Existing Water Quality: Existing groundwater quality is known to support beneficial uses in the Basin. Therefore, minimum thresholds should be set equal to or greater than existing water quality to recognize the absence of significant an unreasonable effects at present.

- GSA's Ability to Improve Water Quality: TDS, sulfate, chloride, and boron are naturally occurring constituents that are derived from groundwater interaction with subsurface sediments and/or are transported into the Basin via surface water. Nitrate is a non-point source pollutant and UVRGA has no regulatory authority to regulate the non-point source

discharges. Large scale remediation of either boron or nitrate in groundwater is cost-prohibitive. The GSA has no feasible means of reducing the existing in situ concentrations of these constituents in the Basin. The Agency will have to rely primarily on other agencies, principally RWQCB, to implement measures that ultimately address nitrate contamination sources.

The proposed minimum thresholds and corresponding rationales are listed in Table 1. Monitoring locations are shown on the map attached to this staff report (Attachment A). The proposed minimum thresholds are shown on the water quality plots attached to this staff report (Attachment B).

Measurable Objectives

Measurable objectives are quantitative metrics that reflect desired conditions for the sustainability indicator. Measurable objectives must be established using the same metrics and monitoring sites as are used to define the minimum thresholds. Those metrics were described above. The proposed measurable objectives and corresponding rationales are listed in Table 1. The proposed measurable objectives are shown water quality plots attached to this staff report (Attachment B). The sustainability goal for degraded water quality for a given constituent is considered to be met when at least one-third (1/3) of the primary monitoring wells are below the measurable objective.

Interim Milestones

Interim milestones are used to show the anticipated progress or path to achieving the measurable objectives within 20 years. The GSA must define the interim milestones using the same metric as the measurable objective in increments of five years. Because the measurable objectives for all water quality constituents are already met, there is no need to show interim milestones.

Projects and Management Actions

Because the measurable objectives for all water quality constituents are already met, no projects and management actions are proposed for the degraded water quality sustainability indicator. However, it is recommended that the GSP include discussion of tracking and supporting Consistent with Item 3h of the adopted Sustainability Goal, it is recommended that the GSP identify coordination with RWQCB efforts to address nitrate contamination sources in the Basin as a non-bonding action, particularly in relation to addressing elevated nitrate concentrations in the Mira Monte area.

Consistency with Sustainability Goal

Staff has developed the proposed SMC for the degraded water quality sustainability indicator to be consistent with applicable elements of the adopted Sustainability Goal.

Table 1. Proposed Minimum Thresholds and Measurable Objectives

Constituent	MCL (mg/L)	Sec. MCL (R/U/ST)[1] (mg/L)	RWQCB WQO (mg/L)	Range of Average Historical Concentrations for Primary Wells (mg/l)	Proposed MT[2] (mg/L)	MT Rationale	Proposed MO[3] (mg/L)	MO Rationale
TDS	N/A	500/1,000/1,500	800	407 - 760	1,000	Prevent significant and unreasonable impact to municipal and domestic beneficial uses of groundwater consistent with Upper Consumer Acceptance Level.	800	Preserve existing groundwater quality for agricultural, municipal, and domestic beneficial uses consistent with RWQCB WQO.
Sulfate	N/A	250/500/600	300	35 - 300	500	Prevent significant and unreasonable impact to municipal and domestic beneficial uses of groundwater consistent with Upper Consumer Acceptance Level.	300	Preserve existing groundwater quality for agricultural, municipal, and domestic beneficial uses consistent with RWQCB WQO.
Chloride	N/A	250/500/600	100	29 - 61	100	Prevent significant and unreasonable impact to agricultural beneficial use of groundwater for chloride sensitive crops[4].	75	Preserve existing groundwater quality for agricultural, municipal, and domestic beneficial uses.
Boron	N/A	N/A	0.5	0.09 - 0.77	0.75	Prevent significant and unreasonable impact to agricultural beneficial use of groundwater for boron sensitive crops.[5]	0.5	Preserve existing groundwater quality for agricultural beneficial use consistent with RWQCB WQO.
Nitrate (as N)								
Percolating Groundwater Areas (Kennedy, Robles, Mira Monte/Meiners Oaks, and Terraces Hydrogeologic Areas)								
Nitrate (as N)	10	N/A	10	0.6 – 12.6	10	Prevent significant and unreasonable impact to municipal and domestic beneficial uses of groundwater consistent with the MCL.	7.5	Preserve existing groundwater quality for municipal and domestic beneficial uses.
Areas with Rising Groundwater (Santa Ana and Casitas Springs Hydrogeologic Areas)								
Nitrate (as N)	10	N/A	5 (Surface Water WQO)	1.0 – 1.5	10	Prevent significant and unreasonable impact to municipal and domestic beneficial uses of groundwater consistent with the MCL.	3	Preserve existing groundwater quality for municipal and domestic beneficial uses. Protect surface water beneficial uses consistent with the RWQCB surface water WQO (MO is lower than surface water WQO).

[1] Consumer Acceptance Levels, where R = Recommended, U = Upper, and ST = Short Term
[2] Undesirable results are considered to occur when two-thirds (2/3) of the primary monitoring wells exceed the minimum threshold concentration for a constituent for two consecutive years.
[3] Sustainability Goal for degraded water quality for a given constituent is considered to be met when at least one-third (1/3) of the primary monitoring wells are below the measureable objective.
[4] No widely accepted toxicity threshold for chloride was identified in literature. Avocados are a chloride sensitive crop grown in the Basin and is used as a proxy. The Avocado Production Handbook states that "When chloride and sodium exceed 100 ppm in the water there should be an alerted concern for ensuring adequate leaching of the root zone." Accordingly it is concluded that undesirable results may occur at concentrations in excess of 100 mg/L https://ucanr.edu/sites/alternativefruits/Avocados/Literature/
[5] Upper limit of boron tolerance for citrus and avocado is 0.75. US Department of Agriculture: https://www.ars.usda.gov/pacific-west-area/riverside-ca/agricultural-water-efficiency-and-salinity-research-unit/docs/databases/boron-tolerance-of-crops/

RECOMMENDED ACTIONS
Consider providing feedback to staff concerning the proposed approach for addressing the degraded water quality sustainability indicator.

BAC KGROUND
SMC are the most important GSP component because they define certain conditions in the basin that will be desirable to avoid and certain conditions that are desirable to achieve. The SCM are a marriage of policy and technical elements. Policy elements are to be approved by the Board in consultation with stakeholders. Technical information is derived from the Basin Conditions section of the GSP and additional technical analysis. The SMC will be achieved through implementation of projects and management actions, as necessary and appropriate. Progress toward meeting and/or maintain the SMC will be evaluated via monitoring programs associated with each applicable Sustainability Indicator.

While developing the SMC, it will be important to remember that sustainable groundwater management will be achieved through adaptive management over a 20 year period. New data obtained from future actions to address data gaps and from monitoring actions will lead to improved understanding of the basin, which will form the basis for refinement of the SMC and projects and management actions over time, which will be memorialized in GSP updates. The forthcoming GSP, including the SMC, should be viewed as a flexible roadmap for a 20 year journey to sustainable management for the Mound Basin.

The SMC includes of the following elements.

- <u>Sustainability Goal</u>
    - Statement of the GSA's objectives and desired conditions of the groundwater basin.

- <u>Undesirable Results</u>
    - Significant and unreasonable effects related to any applicable Sustainability Indicator. It is important to note that, even if a basin does not currently have undesirable results, the GSP Regulations require GSAs to describe the significant unreasonable effects that, if they were to occur, would be considered an undesirable result.

- <u>Minimum Thresholds</u>
    - Quantitative metrics indicating significant and unreasonable effects may occur for applicable Sustainability Indicators. The GSP seeks to avoid the MTs in order to avoid undesirable results. In the above example, groundwater levels at which the well pumping capacity is lost would be determined using information about the wells and modeling to determine under what conditions those water levels might occur.
        - The minimum threshold for degraded water quality shall be the degradation of water quality, including the migration of contaminant plumes that impair water supplies or other indicator of water quality as determined by the Agency that may lead to undesirable results. The minimum threshold shall be based on the number of supply wells, a

volume of water, or a location of an isocontour that exceeds concentrations of constituents determined by the Agency to be of concern for the basin. In setting minimum thresholds for degraded water quality, the Agency shall consider local, state, and federal water quality standards applicable to the basin.

- Measurable Objectives (MOs)
  - Quantitative metrics that reflect basin desired conditions for applicable Sustainability Indicators. The GSP seeks to achieve the MO within 20 years to provide operational flexibility above the MT to accommodate droughts, climate change, and other factors. In the above example, modeling would be performed to estimate groundwater levels that would prevent MTs from being reached after accounting for expected groundwater level fluctuations.

The draft GSP Basin Setting section can be viewed at:
https://uvrgroundwater.org/sgma-overview/

The GSP Emergency Regulations can be viewed at:
https://govt.westlaw.com/calregs/Browse/Home/California/CaliforniaCodeofRegulations?guid=I39F024FCA7874BCE8FB056C895CDCFD5&transitionType=Default&contextData=%28sc.Default%29#I55673D782DE74CD5BA1E9A6CBC881A98

Additional information concerning SMC can be found in DWR's draft Sustainable Management Criteria Best Management Practice document (SMC BMP) available at:
https://water.ca.gov/-/media/DWR-Website/Web-Pages/Programs/Groundwater-Management/Sustainable-Groundwater-Management/Best-Management-Practices-and-Guidance-Documents/Files/BMP-6-Sustainable-Management-Criteria-DRAFT_ay_19.pdf

FISCAL SUMMARY
Not applicable.

ATTACHMENTS

A. Map Showing Groundwater Quality Monitoring Locations
B. Plots of Historical Groundwater Quality with Proposed MTs and MOs

Action: _____

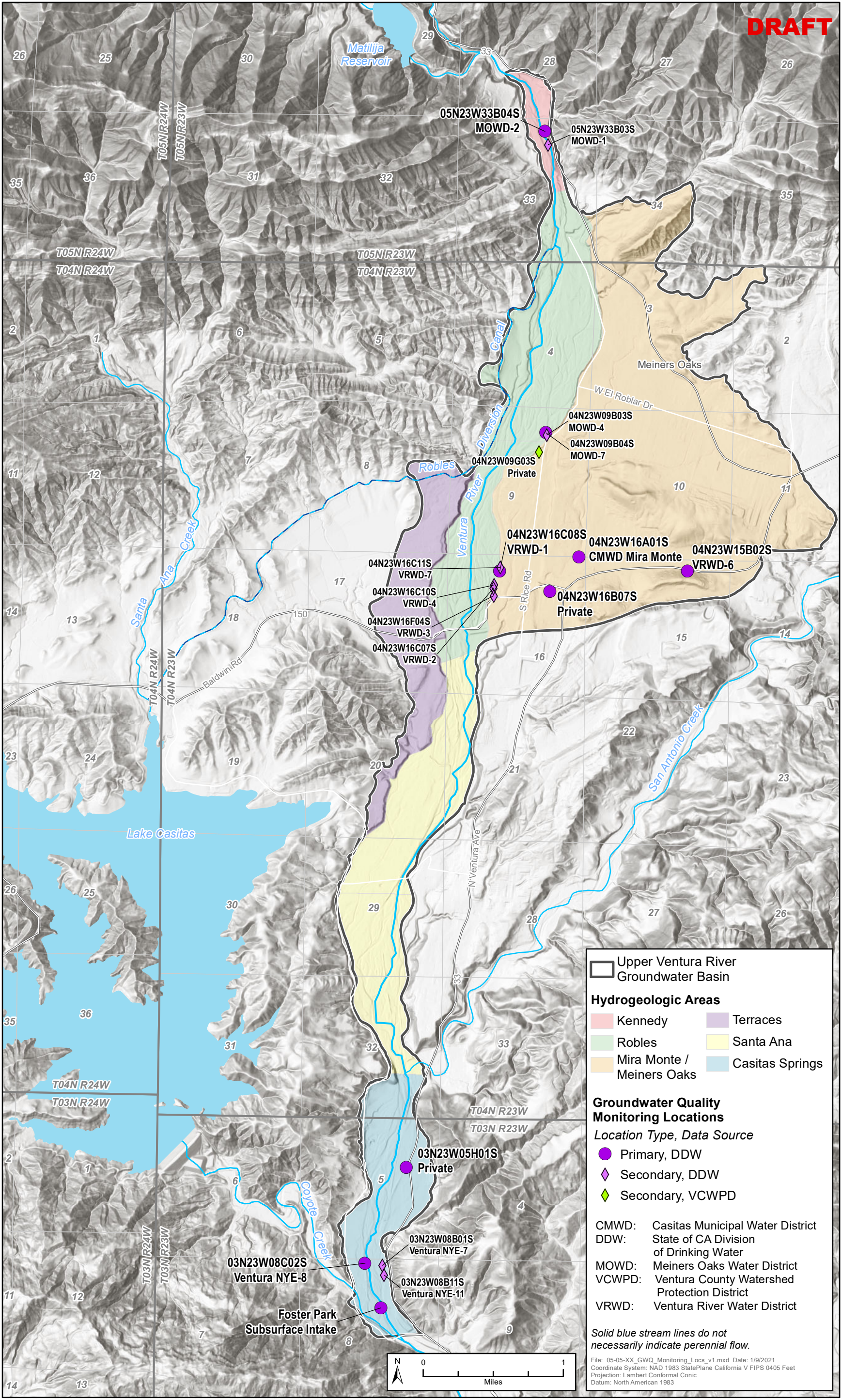
Motion:_____ Second: _____

B. Kuebler___ D. Engle___ A. Spandrio___ S. Rungren___ G. Shephard___ E. Ayala___ L. Rose___

Item 10d

Attachment A

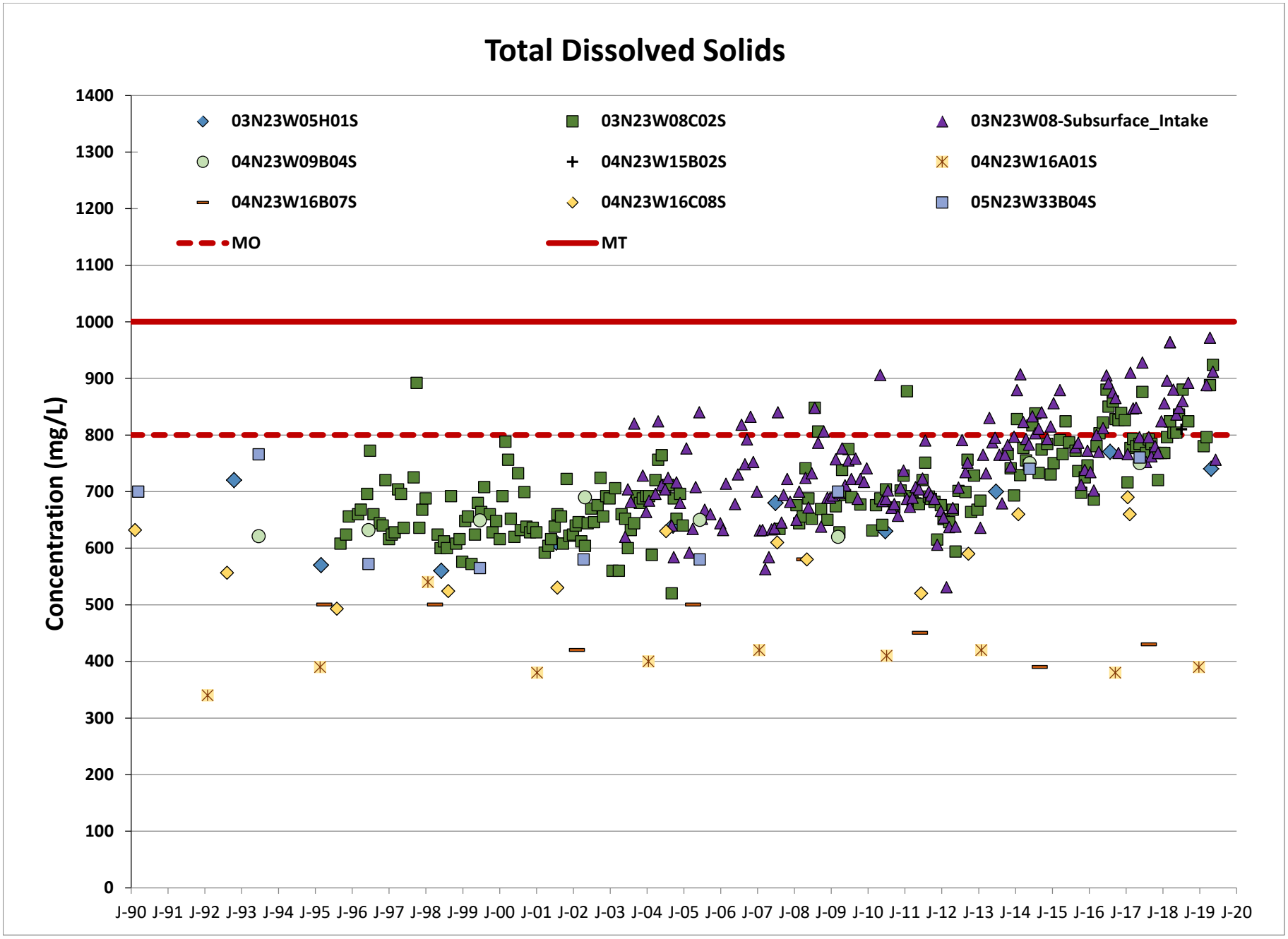
Map Showing Groundwater Quality Monitoring Locations

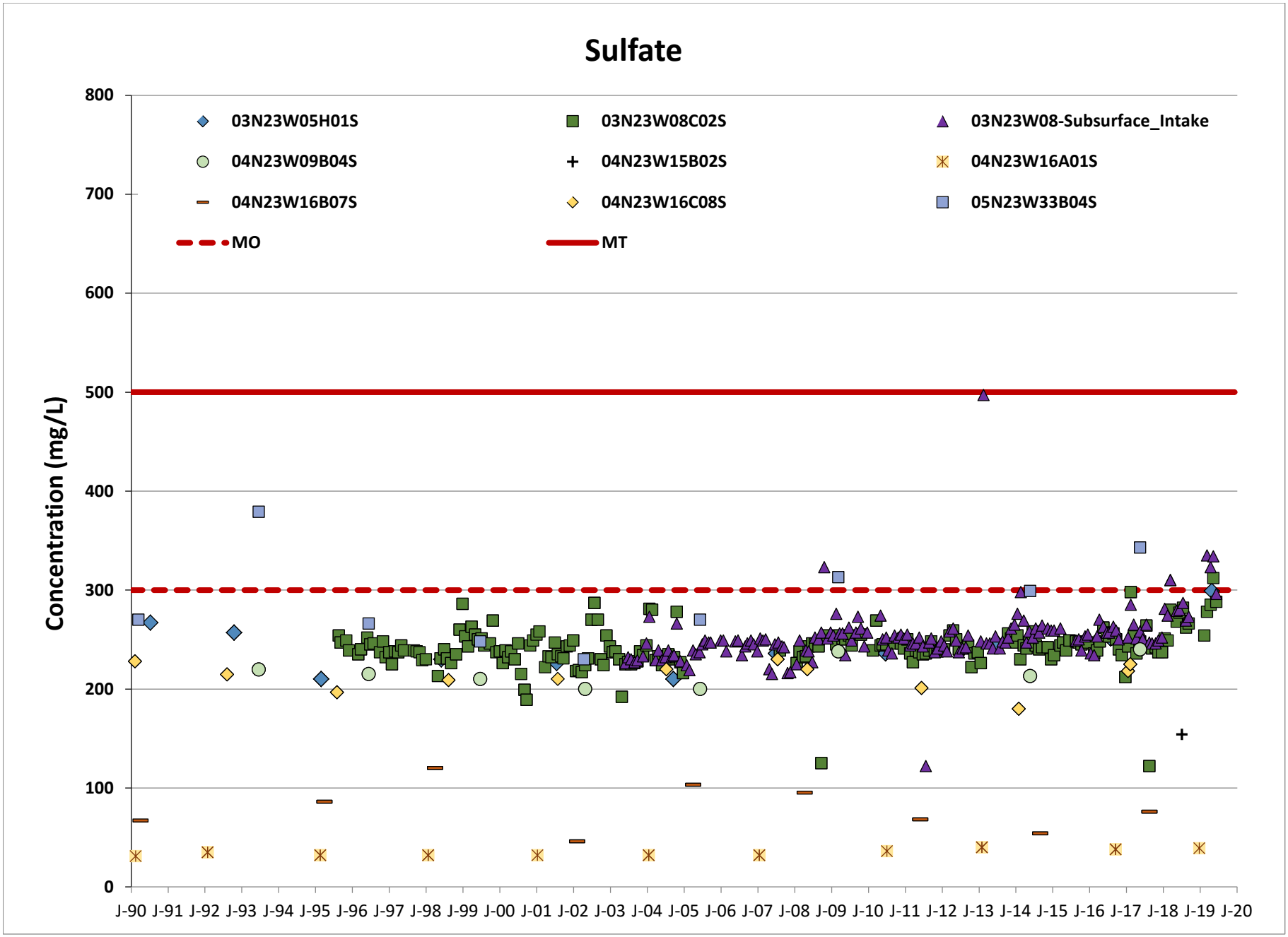

DRAFT
Matilija Reservoir
05N23W33B04S
MOWD-2
05N23W33B03S
MOWD-1
T05N R24W
T05N R23W
T04N R24W
T04N R23W
T03N R24W
T03N R23W
Meiners Oaks
W El Roblar Dr
04N23W09B03S
MOWD-4
04N23W09B04S
MOWD-7
04N23W09G03S
Private
Robles Diversion Canal
Ventura River
Santa Ana Creek
04N23W16C08S
VRWD-1
04N23W16A01S
CMWD Mira Monte
04N23W15B02S
VRWD-6
04N23W16C11S
VRWD-7
04N23W16C10S
VRWD-4
04N23W16F04S
VRWD-3
04N23W16C07S
VRWD-2
04N23W16B07S
Private
S Rice Rd
Baldwin Rd
San Antonio Creek
Lake Casitas
N Ventura Ave
03N23W05H01S
Private
Coyote Creek
03N23W08B01S
Ventura NYE-7
03N23W08C02S
Ventura NYE-8
03N23W08B11S
Ventura NYE-11
Foster Park
Subsurface Intake
N
0
1
Miles
Upper Ventura River Groundwater Basin
Hydrogeologic Areas
Kennedy
Terraces
Robles
Santa Ana
Mira Monte / Meiners Oaks
Casitas Springs
Groundwater Quality Monitoring Locations
Location Type, Data Source
Primary, DDW
Secondary, DDW
Secondary, VCWPD
CMWD: Casitas Municipal Water District
DDW: State of CA Division of Drinking Water
MOWD: Meiners Oaks Water District
VCWPD: Ventura County Watershed Protection District
VRWD: Ventura River Water District
Solid blue stream lines do not necessarily indicate perennial flow.
File: 05-05-XX_GWQ_Monitoring_Locs_v1.mxd Date: 1/9/2021
Coordinate System: NAD 1983 StatePlane California V FIPS 0405 Feet
Projection: Lambert Conformal Conic
Datum: North American 1983

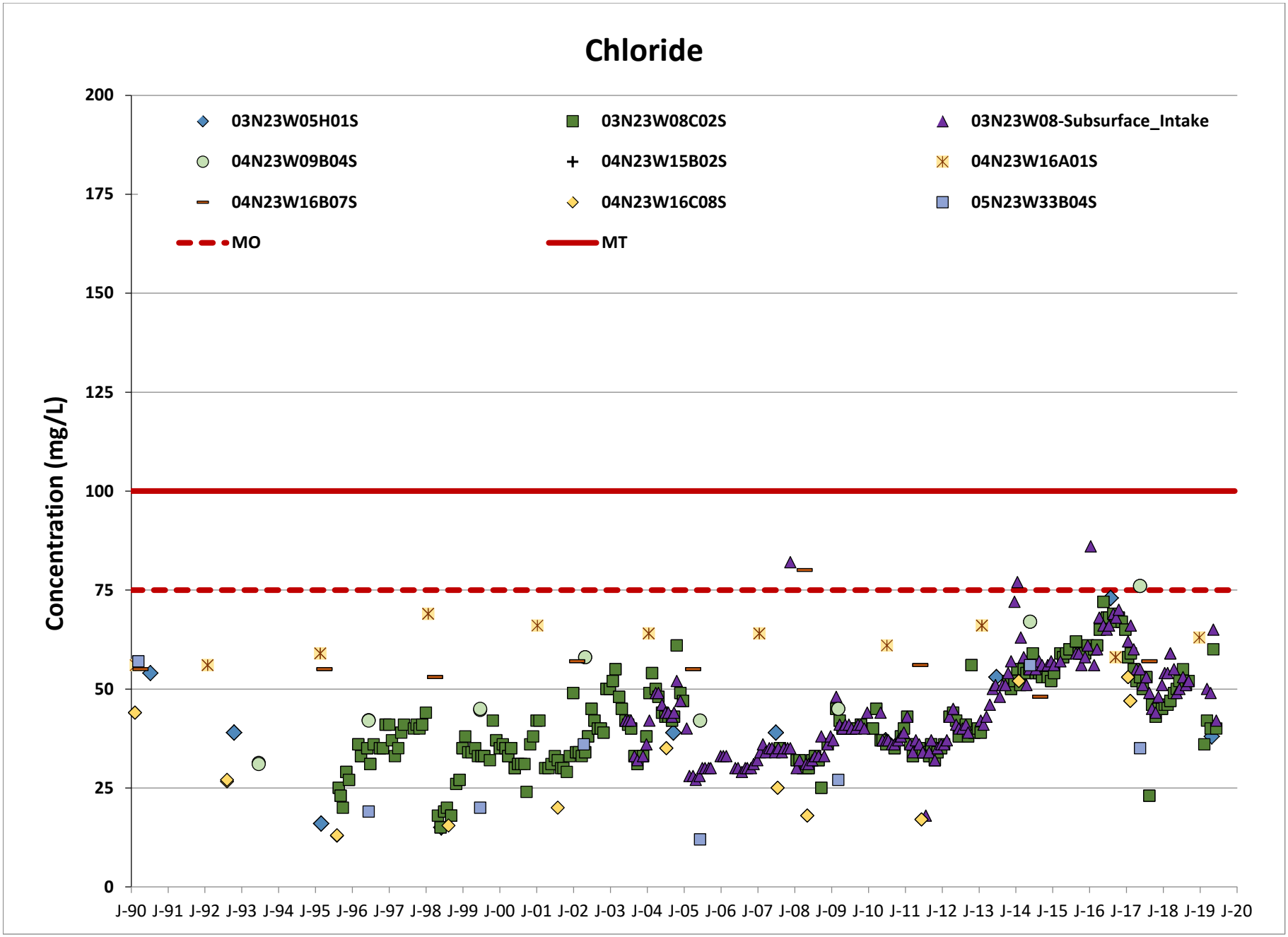
Item 10d

Attachment B

Plots of Historical Groundwater Quality with Proposed Minimum Thresholds and Measurable Objectives


Total Dissolved Solids
03N23W05H01S
03N23W08C02S
03N23W08-Subsurface_Intake
04N23W09B04S
04N23W15B02S
04N23W16A01S
04N23W16B07S
04N23W16C08S
05N23W33B04S
MO
MT
Concentration (mg/L)
1400
1300
1200
1100
1000
900
800
700
600
500
400
300
200
100
0
J-90 J-91 J-92 J-93 J-94 J-95 J-96 J-97 J-98 J-99 J-00 J-01 J-02 J-03 J-04 J-05 J-06 J-07 J-08 J-09 J-10 J-11 J-12 J-13 J-14 J-15 J-16 J-17 J-18 J-19 J-20


Sulfate
Concentration (mg/L)
800
700
600
500
400
300
200
100
0
03N23W05H01S
03N23W08C02S
03N23W08-Subsurface_Intake
04N23W09B04S
04N23W15B02S
04N23W16A01S
04N23W16B07S
04N23W16C08S
05N23W33B04S
MO
MT
J-90 J-91 J-92 J-93 J-94 J-95 J-96 J-97 J-98 J-99 J-00 J-01 J-02 J-03 J-04 J-05 J-06 J-07 J-08 J-09 J-10 J-11 J-12 J-13 J-14 J-15 J-16 J-17 J-18 J-19 J-20


Chloride
Concentration (mg/L)
200
175
150
125
100
75
50
25
0
03N23W05H01S
03N23W08C02S
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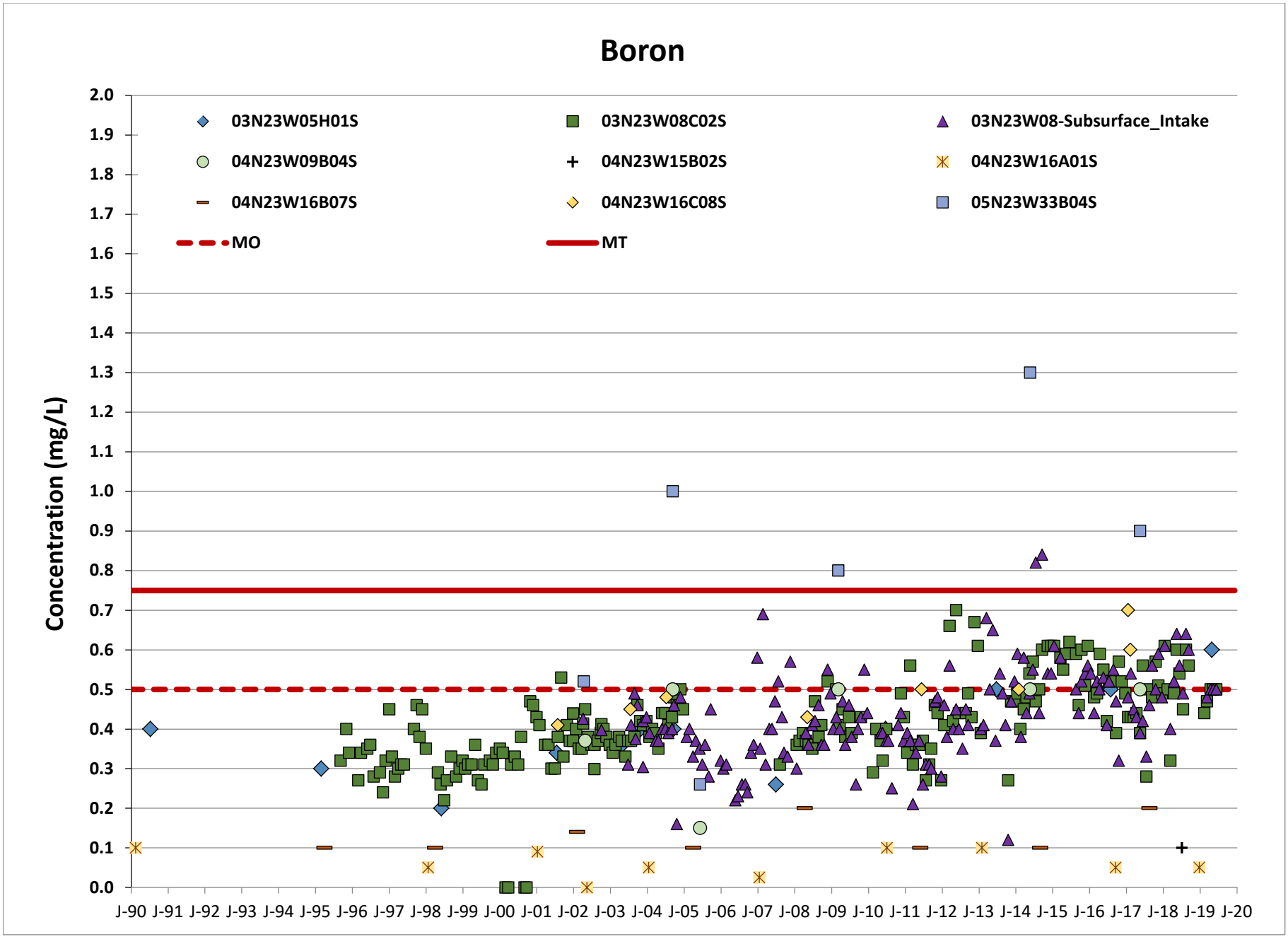
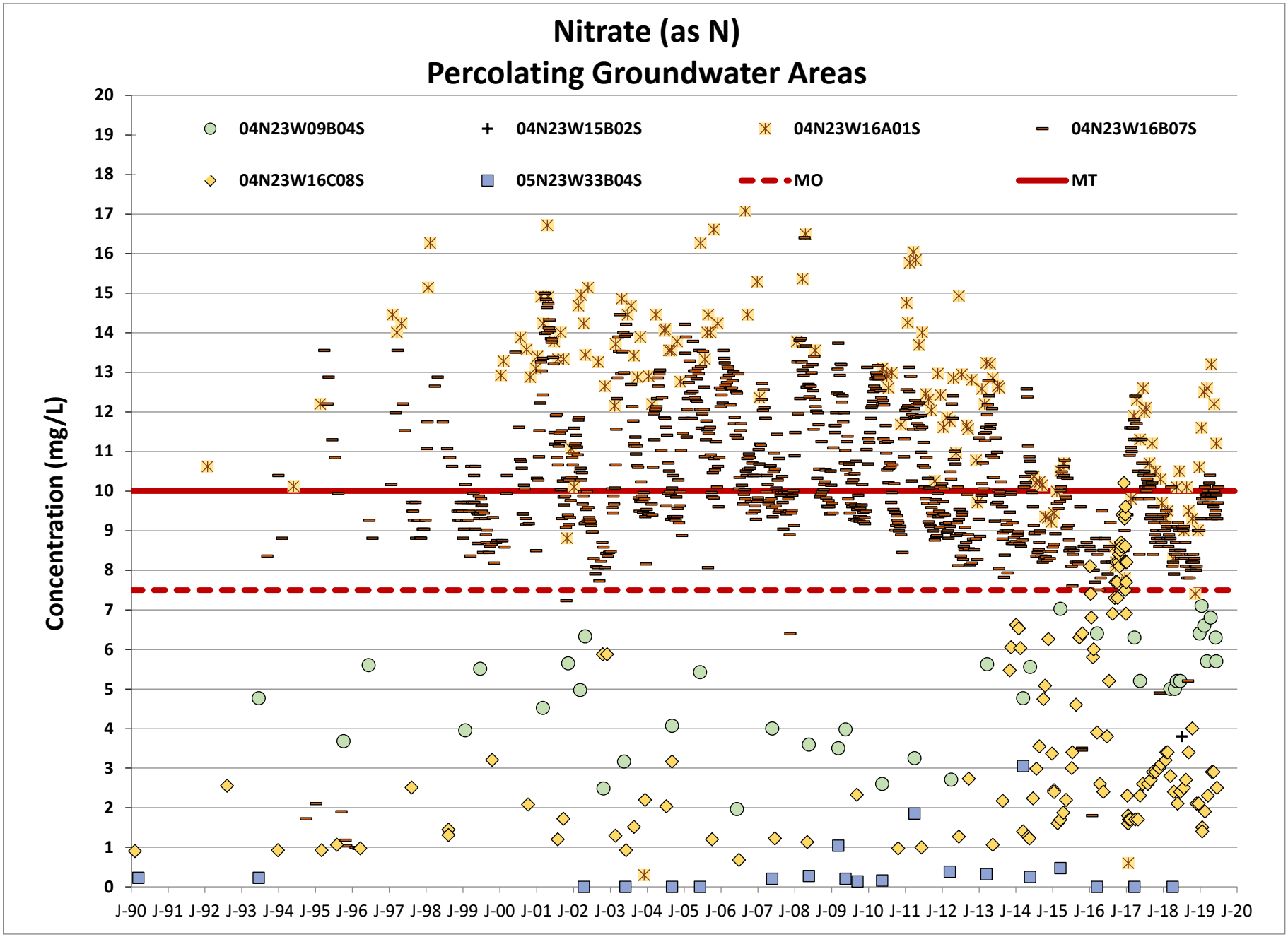
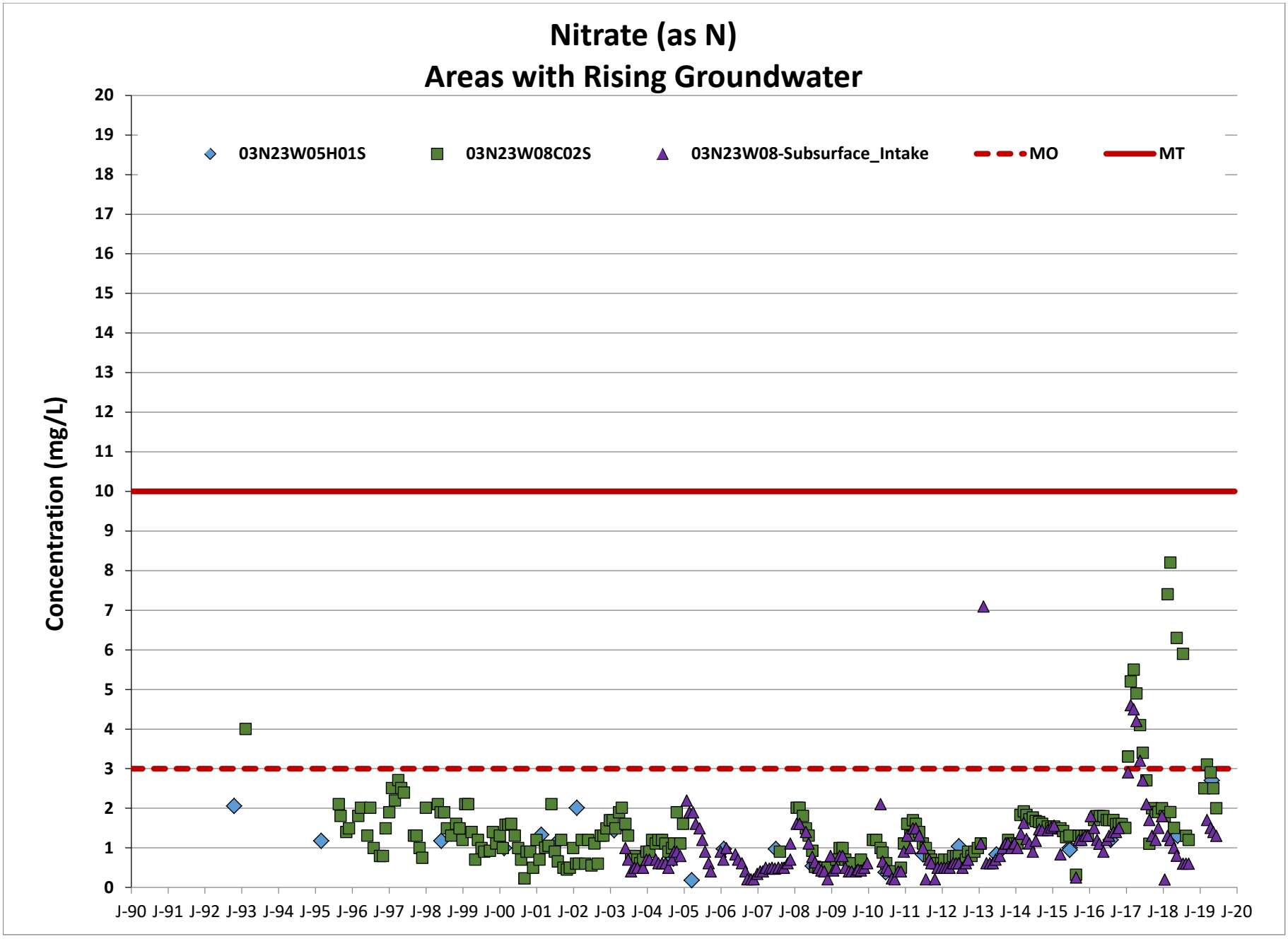
04N23W09B04S
04N23W15B02S
04N23W16A01S
04N23W16B07S
04N23W16C08S
05N23W33B04S
MO
MT
J-90 J-91 J-92 J-93 J-94 J-95 J-96 J-97 J-98 J-99 J-00 J-01 J-02 J-03 J-04 J-05 J-06 J-07 J-08 J-09 J-10 J-11 J-12 J-13 J-14 J-15 J-16 J-17 J-18 J-19 J-20


Boron
Concentration (mg/L)
2.0
1.9
1.8
1.7
1.6
1.5
1.4
1.3
1.2
1.1
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
03N23W05H01S
03N23W08C02S
03N23W08-Subsurface_Intake
04N23W09B04S
04N23W15B02S
04N23W16A01S
04N23W16B07S
04N23W16C08S
05N23W33B04S
MO
MT
J-90 J-91 J-92 J-93 J-94 J-95 J-96 J-97 J-98 J-99 J-00 J-01 J-02 J-03 J-04 J-05 J-06 J-07 J-08 J-09 J-10 J-11 J-12 J-13 J-14 J-15 J-16 J-17 J-18 J-19 J-20


Nitrate (as N)
Percolating Groundwater Areas
Concentration (mg/L)
04N23W09B04S
04N23W15B02S
04N23W16A01S
04N23W16B07S
04N23W16C08S
05N23W33B04S
MO
MT
0
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
J-90 J-91 J-92 J-93 J-94 J-95 J-96 J-97 J-98 J-99 J-00 J-01 J-02 J-03 J-04 J-05 J-06 J-07 J-08 J-09 J-10 J-11 J-12 J-13 J-14 J-15 J-16 J-17 J-18 J-19 J-20


Nitrate (as N)
Areas with Rising Groundwater
Concentration (mg/L)
03N23W05H01S
03N23W08C02S
03N23W08-Subsurface_Intake
MO
MT
0
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
J-90 J-91 J-92 J-93 J-94 J-95 J-96 J-97 J-98 J-99 J-00 J-01 J-02 J-03 J-04 J-05 J-06 J-07 J-08 J-09 J-10 J-11 J-12 J-13 J-14 J-15 J-16 J-17 J-18 J-19 J-20