CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD SAN DIEGO REGION

ERRATA SHEET NO. 2 FOR TENTATIVE ORDER NO. R9-2021-0100 WASTE DISCHARGE AND WATER RECLAMATION REQUIREMENTS FOR THE CITY OF OCEANSIDE ADVANCED WATER PURIFICATION FACILITY INDIRECT POTABLE REUSE FOR GROUNDWATER RECHARGE SAN DIEGO COUNTY

California Regional Water Quality Control Board, San Diego Region (San Diego Water Board) staff prepared Errata Sheet No. 2 to document proposed changes to Tentative Order No. R9-2021-0100, *Waste Discharge and Water Reclamation Requirements for the City of Oceanside Advanced Water Purification Facility Indirect Potable Reuse for Groundwater Recharge, San Diego County* (Tentative Order No. R9-2021-0100). This Errata Sheet supersedes Errata Sheet No. 1 (Supporting Document No. 2). Errata Sheet No. 2 is necessary to clarify the time of compliance for effluent limitations. Errata Sheet No. 1 proposed modifying Tables 2 through 6 of Tentative Order No. R9-2021-0100 to have effluent limitations with a running annual average rather than a running 4week average. The State Water Resources Control Board's Division of Drinking Water (DDW) staff provided clarification that the intent of DDW's recommendation in their September 29, 2021 Conditional Acceptance Letter is for the effluent limitations to have a running 4-week average rather than a running annual average. This Errata Sheet corrects this. Staff did not make any other changes to Errata Sheet No. 1.

The changes to Tentative Order No. R9-2021-0100 are proposed:

- In response to comments received from the City of Oceanside during the public comment period. The response to comments document (Supporting Document 5) explains the basis for the changes proposed in response to the City of Oceanside's comments;
- To ensure constituents of emerging concern (CEC) monitoring requirements are consistent with the State Water Resources Control Board (State Water Board) *Water Quality Control Policy for Recycled Water* (Recycled Water Policy); and
- To incorporate modified recommendations submitted by DDW in its September 29, 2021 *Corrected Conditional Acceptance Letter for the City of Oceanside Pure Water Oceanside Project Engineering Report.*

The proposed changes to Tentative Order No. R9-2021-0100 are shown below in <u>underline/strikeout</u> format to indicate added and removed language, respectively. San Diego Water Board staff will incorporate the proposed changes upon adoption of Tentative Order No. R9-2021-0100.

1. Tentative Order No. R9-2021-0100, section IV.C, Table 4 will be modified, as follows:

Parameter	Units	Average Annual ¹	Daily Maximum	Instantaneous Minimum	Instantaneous Maximum
Aluminum ²	mg/L	0.2	-	-	-
Boron ³	mg/L	-	0.75	-	-
Chloride ^{2,3}	ma/L	250	500	-	-
Color Units ²	Apparent Color Unit (ACU)	15	-	-	-
Copper ⁴	mg/L	1.0	-	-	-
Fluoride ^{3,4}	mg/L	1	2.0	-	-
Free Chlorine Residual⁵	mg/L	-	-	2.0	-
Iron ^{2,3}	mg/L	0.3	0.85	-	-
Lead ⁴	mg/L	0.015	-	-	-
Manganese ²	mg/L	0.05	0.15	-	-
Methylene Blue- Activated Substances (MBAS) ^{2,3}	mg/L	0.5	-	-	-
Methyl-tert- butyl ether (MTBE) ²	mg/L	0.005	-	-	-
Nitrate (as Nitrogen) ^{3,4}	mg/L	10	10	-	-
Nitrate + Nitrite (as nitrogen) ⁴	mg/L	10	10	-	-
Nitrite (as nitrogen) ⁴	mg/L	1	1	-	-
Total Nitrogen ⁶	mg/L	-	10	-	-
Odor ²	Threshold Odor Number (TON)	3	-	-	-
Percent Sodium ³	%	-	60	-	-
pH ⁷	pH Units	-	-	6.5	<u>8.5</u> 8.0
Silver ²	mg/L	0.1	-	-	-

Table 4. Effluent Limitations at M-008

Parameter	Units	Average Annual ¹	Daily Maximum	Instantaneous Minimum	Instantaneous Maximum
Sulfate ^{2,3}	mg/L	250	500	-	-
Thiobencarb ²	mg/L	0.001	-	-	-
Total Dissolved Solids (TDS) ³	mg/L	500	1000	-	-
Total Organic Carbon (TOC) ^{5,8,9}	mg/L	0.5	-	-	0.5
Turbidity ^{10,12}	nephelome tric turbidity units (NTU)	-	11	-	11
Zinc ²	mg/L	5.0	-	-	-

¹The average annual effluent limitation must apply to the arithmetic mean of the results of all samples collected during each calendar year.

- ²Parameters with secondary maximum contaminant levels (MCLs) established in title 22, section 64449, Tables 64449-A and 64449-B.
- ³Parameters with water quality objectives established in the Basin Plan.

⁴Parameters with primary MCLs established in title 22, section 64431, Table 64431-A.

- ⁵Parameters with effluent limitations recommended by DDW's *Conditional Acceptance Letter for the City of Oceanside Pure Water Oceanside Project Engineering Report*, dated July 26, 2021.
- ⁶Parameters with limits established in title 22, section 60320.210.
- ⁷Parameters with limits established in <u>40 Code of Federal Regulations, section 143.3</u> title <u>22</u>, <u>section 60320.201</u>.

⁸TOC must not exceed 0.5 mg/L based on a 20-week running average of all TOC results and the average of the last four monitoring results for TOC.

⁹During the first twenty weeks of full-scale operation the RO permeate must not exceed TOC concentrations of 0.25 mg/L in more than five percent of the sample results.

¹⁰Parameters with limits established in title 22, section 60301.320(b).

¹¹The effluent turbidity must not exceed an average of 0.2 NTU within a 24-hour period or 0.5 NTU more than 5% of the time within a 24-hour period.

¹²The Discharger may monitor turbidity at Monitoring Location MFE rather than M-008.

2. Tentative Order No. R9-2021-0100, section IV.C, Tables 5 through 9 will be modified, as follows:

Footnote 2 will be added to the end of the "Running 4-Week Average" header in Tables 5 through 9 after the word "MCLs": <u>"2Compliance with the running 4-week</u> <u>average will be determined based on the arithmetic average of all samples collected</u> <u>during the 4-week period. The Discharger will be deemed in compliance with effluent</u> <u>limitation(s) during any 4-week period when samples are neither required nor</u> <u>collected."</u>

3. Tentative Order No. R9-2021-0100, Attachment B - Advanced Water Purification Facility Maps and Figures, Figure B-2 will be replaced with the following figure.



- SLRWRF AWPF (18 18 18" 8 12" GNES/Altous DS, USDA, USCS, MBGPF Pure Water Oceanside P Pump Station AWPF Site Plan Legend Ν € Monitoring Wells Conveyance Proposed Injection Well Conveyance Injection Wells • Project #: 0302009 Map Created: July 2 d: July 2018
- 4. Tentative Order No. R9-2021-0100, Attachment B Advanced Water Purification Facility Maps and Figures, Figure B-3 will be replaced with the following figure.



5. Tentative Order No. R9-2021-0100, Attachment C, Figure C-1 will be replaced with the following figure.

6. Tentative Order No. R9-2021-0100, Attachment D - Water Reclamation Requirements, section IV.G will be modified as follows:

The Discharger must inspect the UVT meter at least weekly and check the UVT meter results against a reference benchtop unit to document accuracy. The OOP must include the tolerance and response actions to the UVT meter results.

7. Tentative Order No. R9-2021-0100, Attachment D - Water Reclamation Requirements, section VI.E.3 will be modified as follows:

Performed by an individual who holds a valid and current Cross-Connection Program Specialist certification issued by the AWWA [American Water Works Association] <u>or an organization with equivalent certification requirements</u>. An individual may pursue the University of Southern California's Training of Cross Connection Control Program Specialists; however, the individual must still attain certification from the AWWA.

8. Tentative Order No. R9-2021-0100, Attachment E – Monitoring and Reporting Program, section III, Table E-1 will be modified as follows:

Monitoring Location	Primary Station	Monitoring Location Description
Name	Codes	A location after secondary treatment and
M-006	NA	before the membrane filtration system (33.246464, -117.332108)
MFE	3790014-100	A location after UF and before reverse osmosis (RO) (33.245661, -117.331994)
M-008	3790014-200	A location after free chlorine and water stabilization process, and sodium hypochlorite injection, prior to injection to groundwater (33.2456, -117.331069)
MW-A-1 and MW-A-2 ¹	NA	Monitoring wells located down gradient of injection wells. Monitoring wells (A-1) have well screen intervals in the deep aquifer (90 to 155 feet below grade) and monitoring wells (A-2) have well screen intervals in the shallow aquifer (30 to 60 feet below grade). The wells are collocated next to each other. (33.233509, -117.331042)
MW-B-1 and MW-B-2 ¹	NA	Monitoring wells located down gradient of injection wells. Monitoring wells (B-1) have well screen intervals in the deep aquifer (85 to 140 feet below grade) and monitoring wells (B-2) have well screen intervals in the shallow aquifer (30 to 70 feet below grade). The wells are collocated next to each other. (33.227635, -117.338333)
MW-C-1 and MW-C-2 ^{1,2}	NA	Monitoring wells located down gradient of injection wells. Monitoring wells (C-1) have well screen intervals in the deep aquifer (90 to 155 feet below grade) and monitoring wells (C-2) have well screen intervals in the shallow aquifer (30 to 60 feet below grade). The wells are collocated next to each other. (33.230943, 117.331071)

 Table E-1. Summary of Monitoring Locations

¹The Discharger will the use monitoring locations for compliance with the WRRs as specified in the Discharger's OOP.

²The Discharger will monitor at MW-C-1 and MW-C-2 if Injection Well 006 is <u>in</u> use needed to reach the goal of discharging 3.0 MGD and the goal cannot be met using only Injection Wells 001 and 003.

9. Tentative Order No. R9-2021-0100, Attachment E – Monitoring and Reporting Requirements, section IV.B, Table E-3 will be modified as follows:

Parameter	Units	Sample Type	Minimum Sample Frequency
Flowrate	MGD	Recorder	Continuous
Turbidity ¹	nephelometric turbidity units (NTU)	Recorder	Continuous
pН	pH Units	Recorder	Continuous
Total Coliform	Most Probable Number (MPN) /100	Grab	Daily ⁴
Total Dissolved Solids (TDS)	mg/L	24-hour composite or grab	Monthly
Chloride ¹	mg/L	24-hour composite or grab	Quarterly
Sulfate ¹	mg/L	24-hour composite or grab	Quarterly
Percent Sodium	%	24-hour composite or grab	Quarterly
Total Nitrogen ^{2,3}	mg/L	24-hour composite	2 per week
Nitrate + Nitrite (as Nitrogen) ³	mg/L	Calculate	Monthly
Nitrate (as Nitrogen) ³	mg/L	24-hour composite	Monthly
Nitrite (as Nitrogen) ³	mg/L	24-hour composite	Monthly
Iron	mg/L	24-hour composite or grab	Quarterly
Manganese	mg/L	24-hour composite or grab	Monthly
Methylene Blue- Activated Substances (MBAS) ¹	mg/L	24-hour composite or grab	Quarterly
Odor ¹	Threshold Odor Number (TON)	24-hour composite	Quarterly
Color Units ¹	Apparent Color Unit (ACU)	24-hour composite	Quarterly
Lead ³	Micrograms per Liter (µg/L)	24-hour composite or grab	Monthly

Table E-3. Effluent Monitoring at M-008

Parameter	Units	Sample Type	Minimum Sample Frequency
Copper ¹	μg/L	24-hour composite or grab	Monthly
Total Organic Carbon (TOC)	mg/L	Recorder or 24- hour composite	Weekly
Alkalinity (as CaCO₃)	mg/L	24-hour composite	Monthly
Silver ¹	mg/L	24-hour composite or grab	Quarterly
Thiobencarb ¹	µg/L	24-hour composite or grab	Quarterly
Zinc ¹	mg/L	24-hour composite or grab	Quarterly

¹Parameters with secondary maximum containment levels (MCLs) established in title 22, section 64449 Table 64449-A.

²See section IV.C and IV.D of this MRP for details on monitoring.

³Parameters with primary MCLs established in title 22, section 64431 Table 64431.

⁴The minimum sampling frequency shall be five days per week.

10. Tentative Order No. R9-2021-0100, Attachment E – Monitoring and Reporting Requirements, section IV.H, Table E-11 will be modified as follows:

Table E-11. Groundwater Monitoring at MW-A-1, MW-A-2, MW-B-1, MW-B-2, MW-C-1, and MW-C-2¹

Parameter	Units	Minimum Sample Frequency ²	
Groundwater Elevation ³	0.01 Feet (ft)	Quarterly	
Depth to Groundwater	0.01 ft	Quarterly	
Gradient	ft/ft	Quarterly ⁴	
Gradient Direction	Degrees	Quarterly ⁴	
рН	pH Units	Once per 6 months	
Total Coliform	Most Probable Number (MPN) /100	Once per 6 months	
Total Dissolved Solids (TDS)	mg/L	Once per 6 months	
Chloride	mg/L	Once per 6 months	
Sulfate	mg/L	Once per 6 months	
Percent Sodium	%	Once per 6 months	
Total Nitrogen	mg/L	Quarterly	
Nitrate + Nitrite (as nitrogen)	mg/L	Quarterly	
Nitrate (as nitrogen)	mg/L	Quarterly	
Nitrite (as nitrogen)	mg/L	Quarterly	
Iron	mg/L	Once per 6 months	

Manganese mg/L Once per 6 months Methylene Blue-Activated Substances (MBAS) mg/L Once per 6 months Odor Threshold Odor Number (TON) Once per 6 months Color Units Apparent Color Unit (ACU) Once per 6 months Fluoride mg/L Once per 6 months Lead µg/L Quarterly Copper µg/L Quarterly Silver mg/L Once per 6 months Thiobencarb µg/L Quarterly Antimony mg/L Once per 6 months Atuminum mg/L Once per 6 months Atuminum mg/L Quarterly Assenic mg/L Quarterly Astimum mg/L Quarterly Assetsos (for fibers million fibers per liter (MFL) Quarterly Barium mg/L Quarterly Cadmium mg/L Quarterly Cadmium mg/L Quarterly Cadmium mg/L Quarterly Gamium mg/L Quarterly <th>Parameter</th> <th>Units</th> <th colspan="2">Minimum Sample Frequency²</th>	Parameter	Units	Minimum Sample Frequency ²	
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Zincmg/LOnce per 6 monthsAluminummg/LQuarterlyAntimonymg/LQuarterlyArsenicmg/LQuarterlyAsbestos (for fibersmillion fibers per literQuarterlyAsbestos (for fibersmillion fibers per literQuarterlyBariummg/LQuarterlyBariummg/LQuarterlyCadmiummg/LQuarterlyCadmiummg/LQuarterlyCyanidemg/LQuarterlyFluoridemg/LQuarterlyMercurymg/LQuarterlyNickelmg/LQuarterlyPerchloratemg/LQuarterlySeleniummg/LQuarterlyBenzenemg/LQuarterly1,4-Dichlorobenzenemg/LQuarterly1,1-Dichloroethanemg/LQuarterly1,2-Dichloroethanemg/LQuarterly1,2-Dichloroethylenemg/LQuarterly1,2-Dichloroethylenemg/LQuarterly1,2-Dichloroethylenemg/LQuarterly1,2-Dichloroethylenemg/LQuarterly1,2-Dichloroethylenemg/LQuarterly1,2-Dichloroethylenemg/LQuarterly1,2-Dichloroethylenemg/LQuarterly1,2-Dichloroethylenemg/LQuarterly1,2-Dichloroethylenemg/LQuarterly1,2-Dichloroethylenemg/LQuarterly1,2-Dichloroperpanemg/LQuarterly1,3-Dichloroperpanemg/LQ	Thiobencarb	µg/L	Once per 6 months	
Aluminummg/LQuarterlyAntimonymg/LQuarterlyArsenicmg/LQuarterlyAsbestos (for fibersmillion fibers per literQuarterlyexceeding 10 µm in length)(MFL)QuarterlyBariummg/LQuarterlyBerylliummg/LQuarterlyCadmiummg/LQuarterlyCadmiummg/LQuarterlyTotal Chromiummg/LQuarterlyFluoridemg/LQuarterlyMercurymg/LQuarterlyMercurymg/LQuarterlyNickelmg/LQuarterlyPerchloratemg/LQuarterlySeleniummg/LQuarterlyBenzenemg/LQuarterly1,2-Dichlorobenzenemg/LQuarterly1,2-Dichloroethanemg/LQuarterly1,2-Dichloroethanemg/LQuarterly1,2-Dichloroethylenemg/LQuarterly1,2-Dichloroethylenemg/LQuarterly1,2-Dichloroethylenemg/LQuarterly1,2-Dichloroethylenemg/LQuarterly1,2-Dichloroethylenemg/LQuarterly1,2-Dichloroethylenemg/LQuarterly1,2-Dichloroethylenemg/LQuarterly1,2-Dichloroethylenemg/LQuarterly1,2-Dichloroethylenemg/LQuarterly1,2-Dichloroethylenemg/LQuarterly1,2-Dichloroethylenemg/LQuarterly1,2-Dichloroethylenemg/LQuarter	Zinc	mg/L	Once per 6 months	
Antimonymg/LQuarterlyArsenicmg/LQuarterlyAsbestos (for fibersmillion fibers per literQuarterlyexceeding 10 µm in length)(MFL)QuarterlyBariummg/LQuarterlyBerylliummg/LQuarterlyCadmiummg/LQuarterlyTotal Chromiummg/LQuarterlyFluoridemg/LQuarterlyMercurymg/LQuarterlyNickelmg/LQuarterlyNickelmg/LQuarterlyPerchloratemg/LQuarterlyBenzenemg/LQuarterlyCabeniummg/LQuarterlyNickelmg/LQuarterlyPerchloratemg/LQuarterly1,2-Dichlorobenzenemg/LQuarterly1,2-Dichloroethanemg/LQuarterly1,1-Dichloroethylenemg/LQuarterly1,2-Dichloroethylenemg/LQuarterly1,2-Dichloroethylenemg/LQuarterly1,2-Dichloroethylenemg/LQuarterly1,2-Dichloroethylenemg/LQuarterly1,2-Dichloroethylenemg/LQuarterly1,2-Dichloroethylenemg/LQuarterly1,2-Dichloroethylenemg/LQuarterly1,2-Dichloroethylenemg/LQuarterly1,2-Dichloroethylenemg/LQuarterly1,3-Dichloropropanemg/LQuarterly1,3-Dichloropropenemg/LQuarterly1,3-Dichloropropenemg/LQuarter	Aluminum	mg/L	Quarterly	
Arsenicmg/LQuarterlyAsbestos (for fibers exceeding 10 µm in length)million fibers per liter (MFL)QuarterlyBariummg/LQuarterlyBerylliummg/LQuarterlyCadmiummg/LQuarterlyCadmiummg/LQuarterlyTotal Chromiummg/LQuarterlyCyanidemg/LQuarterlyFluoridemg/LQuarterlyMercurymg/LQuarterlyNickelmg/LQuarterlyPerchloratemg/LQuarterlySeleniummg/LQuarterlyBenzenemg/LQuarterly1,2-Dichlorobenzenemg/LQuarterly1,4-Dichloroethanemg/LQuarterly1,1-Dichloroethylenemg/LQuarterly1,2-Dichloroethylenemg/LQuarterly1,2-Dichloroethylenemg/LQuarterly1,2-Dichloroethylenemg/LQuarterly1,2-Dichloroethylenemg/LQuarterly1,2-Dichloroethylenemg/LQuarterly1,2-Dichloroethylenemg/LQuarterly1,2-Dichloroethylenemg/LQuarterly1,2-Dichloroethylenemg/LQuarterly1,2-Dichloroethylenemg/LQuarterly1,2-Dichloroethylenemg/LQuarterly1,2-Dichloroethylenemg/LQuarterly1,3-Dichloropropanemg/LQuarterly1,3-Dichloropropanemg/LQuarterly1,3-Dichloropropanemg/LQuarterly	Antimony	mg/L	Quarterly	
Asbestos (for fibers exceeding 10 µm in length)million fibers per liter (MFL)QuarterlyBariummg/LQuarterlyBerylliummg/LQuarterlyCadmiummg/LQuarterlyCadmiummg/LQuarterlyTotal Chromiummg/LQuarterlyCyanidemg/LQuarterlyFluoridemg/LQuarterlyMercurymg/LQuarterlyNickelmg/LQuarterlyPerchloratemg/LQuarterlySeleniummg/LQuarterlyBenzenemg/LQuarterly1,2-Dichlorobenzenemg/LQuarterly1,4-Dichloroethanemg/LQuarterly1,1-Dichloroethylenemg/LQuarterly1,2-Dichloroethylenemg/LQuarterly1,2-Dichloroethylenemg/LQuarterly1,2-Dichloroethylenemg/LQuarterly1,2-Dichloroethylenemg/LQuarterly1,2-Dichloroethylenemg/LQuarterly1,2-Dichloroethylenemg/LQuarterly1,2-Dichloroethylenemg/LQuarterly1,2-Dichloroethylenemg/LQuarterly1,2-Dichloroethylenemg/LQuarterly1,2-Dichloroethylenemg/LQuarterly1,2-Dichloroethylenemg/LQuarterly1,3-Dichloropropanemg/LQuarterly1,3-Dichloropropanemg/LQuarterly1,3-Dichloropropanemg/LQuarterly1,3-Dichloropropanemg/LQuarter	Arsenic	mg/L	Quarterly	
Bariummg/LQuarterlyBariummg/LQuarterlyBerylliummg/LQuarterlyCadmiummg/LQuarterlyTotal Chromiummg/LQuarterlyQuarterlymg/LQuarterlyFluoridemg/LQuarterlyMercurymg/LQuarterlyNickelmg/LQuarterlyPerchloratemg/LQuarterlySeleniummg/LQuarterlyBenzenemg/LQuarterlyCarbon Tetrachloridemg/LQuarterly1,2-Dichlorobenzenemg/LQuarterly1,1-Dichloroethanemg/LQuarterly1,1-Dichloroethanemg/LQuarterly1,2-Dichloroethanemg/LQuarterly1,2-Dichloroethylenemg/LQuarterly1,2-Dichloroethylenemg/LQuarterly1,2-Dichloroethylenemg/LQuarterly1,2-Dichloroethylenemg/LQuarterly1,3-Dichloropenpemg/LQuarterly1,3-Dichloropenpemg/LQuarterly1,3-Dichloropenpemg/LQuarterly1,3-Dichloropenpemg/LQuarterly1,3-Dichloropenpemg/LQuarterly1,3-Dichloropenpemg/LQuarterly1,3-Dichloropenpemg/LQuarterly	Asbestos (for fibers exceeding 10 µm in length)	million fibers per liter (MFL)	Quarterly	
Berylliummg/LQuarterlyBerylliummg/LQuarterlyCadmiummg/LQuarterlyTotal Chromiummg/LQuarterlyCyanidemg/LQuarterlyFluoridemg/LQuarterlyMercurymg/LQuarterlyNickelmg/LQuarterlyPerchloratemg/LQuarterlySeleniummg/LQuarterlyBenzenemg/LQuarterlyCarbon Tetrachloridemg/LQuarterly1,2-Dichlorobenzenemg/LQuarterly1,4-Dichloroethanemg/LQuarterly1,1-Dichloroethanemg/LQuarterly1,1-Dichloroethanemg/LQuarterly1,2-Dichloroethanemg/LQuarterly1,2-Dichloroethylenemg/LQuarterly1,2-Dichloroethylenemg/LQuarterly1,2-Dichloroethylenemg/LQuarterly1,2-Dichloroethylenemg/LQuarterly1,2-Dichloroethylenemg/LQuarterly1,2-Dichloroethylenemg/LQuarterly1,2-Dichloroethylenemg/LQuarterly1,2-Dichloroethylenemg/LQuarterly1,2-Dichloroethylenemg/LQuarterly1,2-Dichloroethylenemg/LQuarterly1,3-Dichloropropanemg/LQuarterly1,3-Dichloropropenemg/LQuarterly1,3-Dichloropropenemg/LQuarterly1,3-Dichloropropenemg/LQuarterly1,3-Dichloropropenemg/	Barium	mg/l	Quarterly	
Derymannmg/LQuarterlyCadmiummg/LQuarterlyTotal Chromiummg/LQuarterlyCyanidemg/LQuarterlyFluoridemg/LQuarterlyMercurymg/LQuarterlyNickelmg/LQuarterlyPerchloratemg/LQuarterlySeleniummg/LQuarterlyThalliummg/LQuarterlyCarbon Tetrachloridemg/LQuarterly1,2-Dichlorobenzenemg/LQuarterly1,4-Dichloroethanemg/LQuarterly1,1-Dichloroethanemg/LQuarterly1,2-Dichloroethanemg/LQuarterly1,2-Dichloroethylenemg/LQuarterly1,2-Dichloroethylenemg/LQuarterly1,2-Dichloroethylenemg/LQuarterly1,2-Dichloroethylenemg/LQuarterly1,2-Dichloroethylenemg/LQuarterly1,3-Dichloropenzenemg/LQuarterly1,3-Dichloroethylenemg/LQuarterly1,3-Dichloroethylenemg/LQuarterly1,3-Dichloropenzenemg/LQuarterly1,3-Dichloropenzenemg/LQuarterly1,3-Dichloropenzenemg/LQuarterly1,3-Dichloropenzenemg/LQuarterly1,3-Dichloropenzenemg/LQuarterly1,3-Dichloropenzenemg/LQuarterly1,3-Dichloropenzenemg/LQuarterly1,3-Dichloropenzenemg/LQuarterly1,3-Dichloropenzene <td>Bervllium</td> <td>mg/L</td> <td>Quarterly</td>	Bervllium	mg/L	Quarterly	
Total Chromiummg/LQuarterlyCyanidemg/LQuarterlyFluoridemg/LQuarterlyMercurymg/LQuarterlyNickelmg/LQuarterlyPerchloratemg/LQuarterlySeleniummg/LQuarterlyThalliummg/LQuarterlyBenzenemg/LQuarterlyCarbon Tetrachloridemg/LQuarterly1,2-Dichlorobenzenemg/LQuarterly1,1-Dichloroethanemg/LQuarterly1,1-Dichloroethanemg/LQuarterly1,1-Dichloroethylenemg/LQuarterly1,2-Dichloroethylenemg/LQuarterly1,1-Dichloroethylenemg/LQuarterly1,2-Dichloroethylenemg/LQuarterly1,1-Dichloroethylenemg/LQuarterly1,2-Dichloroethylenemg/LQuarterly1,3-Dichloropropanemg/LQuarterly1,3-Dichloropropanemg/LQuarterly1,3-Dichloropropanemg/LQuarterly1,3-Dichloropropanemg/LQuarterly1,3-Dichloropropanemg/LQuarterly1,3-Dichloropropanemg/LQuarterly1,3-Dichloropropanemg/LQuarterly1,3-Dichloropropanemg/LQuarterly1,3-Dichloropropanemg/LQuarterly1,3-Dichloropropanemg/LQuarterly1,3-Dichloropropanemg/LQuarterly1,3-Dichloropropanemg/LQuarterly <td>Cadmium</td> <td>mg/L</td> <td>Quarterly</td>	Cadmium	mg/L	Quarterly	
Cyanidemg/LQuarterlyCyanidemg/LQuarterlyFluoridemg/LQuarterlyMercurymg/LQuarterlyNickelmg/LQuarterlyPerchloratemg/LQuarterlySeleniummg/LQuarterlyThalliummg/LQuarterlyBenzenemg/LQuarterly1,2-Dichlorobenzenemg/LQuarterly1,4-Dichloroethanemg/LQuarterly1,1-Dichloroethanemg/LQuarterly1,2-Dichloroethanemg/LQuarterly1,1-Dichloroethylenemg/LQuarterly1,2-Dichloroethylenemg/LQuarterly1,2-Dichloroethylenemg/LQuarterly1,2-Dichloroethylenemg/LQuarterly1,2-Dichloroethylenemg/LQuarterly1,2-Dichloroethylenemg/LQuarterly1,2-Dichloroethylenemg/LQuarterly1,3-Dichloropropanemg/LQuarterly1,3-Dichloropropenemg/LQuarterly1,3-Dichloropropenemg/LQuarterly1,3-Dichloropropenemg/LQuarterly	Total Chromium	mg/L	Quarterly	
Fluoridemg/LQuarterlyFluoridemg/LQuarterlyMercurymg/LQuarterlyNickelmg/LQuarterlyPerchloratemg/LQuarterlySeleniummg/LQuarterlyThalliummg/LQuarterlyBenzenemg/LQuarterlyCarbon Tetrachloridemg/LQuarterly1,2-Dichlorobenzenemg/LQuarterly1,1-Dichloroethanemg/LQuarterly1,2-Dichloroethanemg/LQuarterly1,1-Dichloroethylenemg/LQuarterly1,2-Dichloroethylenemg/LQuarterly1,2-Dichloroethylenemg/LQuarterly1,2-Dichloroethylenemg/LQuarterly1,2-Dichloroethylenemg/LQuarterly1,2-Dichloroethylenemg/LQuarterly1,2-Dichloroethylenemg/LQuarterly1,2-Dichloroethylenemg/LQuarterly1,3-Dichloropropanemg/LQuarterly1,3-Dichloropropenemg/LQuarterly1,3-Dichloropropenemg/LQuarterly	Cvanide	mg/L	Quarterly	
Mercurymg/LQuarterlyMercurymg/LQuarterlyNickelmg/LQuarterlyPerchloratemg/LQuarterlySeleniummg/LQuarterlyThalliummg/LQuarterlyBenzenemg/LQuarterlyCarbon Tetrachloridemg/LQuarterly1,2-Dichlorobenzenemg/LQuarterly1,4-Dichlorobenzenemg/LQuarterly1,1-Dichloroethanemg/LQuarterly1,2-Dichloroethanemg/LQuarterly1,1-Dichloroethylenemg/LQuarterly1,2-Dichloroethylenemg/LQuarterly1,2-Dichloroethylenemg/LQuarterly1,2-Dichloroethylenemg/LQuarterly1,2-Dichloroethylenemg/LQuarterly1,2-Dichloroethylenemg/LQuarterly1,2-Dichloroethylenemg/LQuarterly1,2-Dichloroethylenemg/LQuarterly1,3-Dichloropropanemg/LQuarterly1,3-Dichloropropenemg/LQuarterly1,3-Dichloropropenemg/LQuarterly	Fluoride	mg/L	Quarterly	
Nickelmg/LQuarterlyPerchloratemg/LQuarterlyPerchloratemg/LQuarterlySeleniummg/LQuarterlyThalliummg/LQuarterlyBenzenemg/LQuarterlyCarbon Tetrachloridemg/LQuarterly1,2-Dichlorobenzenemg/LQuarterly1,4-Dichlorobenzenemg/LQuarterly1,1-Dichloroethanemg/LQuarterly1,2-Dichloroethanemg/LQuarterly1,2-Dichloroethylenemg/LQuarterly1,2-Dichloroethylenemg/LQuarterly1,2-Dichloroethylenemg/LQuarterly1,2-Dichloroethylenemg/LQuarterly1,2-Dichloroethylenemg/LQuarterly1,2-Dichloroethylenemg/LQuarterly1,2-Dichloroethylenemg/LQuarterly1,3-Dichloropropanemg/LQuarterly1,3-Dichloropropenemg/LQuarterly	Mercury	mg/L	Quarterly	
Perchloratemg/LQuarterlyPerchloratemg/LQuarterlySeleniummg/LQuarterlyThalliummg/LQuarterlyBenzenemg/LQuarterlyCarbon Tetrachloridemg/LQuarterly1,2-Dichlorobenzenemg/LQuarterly1,4-Dichlorobenzenemg/LQuarterly1,1-Dichloroethanemg/LQuarterly1,2-Dichloroethanemg/LQuarterly1,2-Dichloroethylenemg/LQuarterly1,2-Dichloroethylenemg/LQuarterly1,2-Dichloroethylenemg/LQuarterly1,2-Dichloroethylenemg/LQuarterly1,2-Dichloroethylenemg/LQuarterly1,2-Dichloroethylenemg/LQuarterly1,2-Dichloroethylenemg/LQuarterly1,3-Dichloropropanemg/LQuarterly1,3-Dichloropropenemg/LQuarterly	Nickel	mg/L	Quarterly	
Seleniummg/LQuarterlySeleniummg/LQuarterlyThalliummg/LQuarterlyBenzenemg/LQuarterlyCarbon Tetrachloridemg/LQuarterly1,2-Dichlorobenzenemg/LQuarterly1,4-Dichlorobenzenemg/LQuarterly1,1-Dichloroethanemg/LQuarterly1,2-Dichloroethanemg/LQuarterly1,1-Dichloroethylenemg/LQuarterly1,2-Dichloroethylenemg/LQuarterly1,2-Dichloroethylenemg/LQuarterly1,2-Dichloroethylenemg/LQuarterly1,2-Dichloroethylenemg/LQuarterly1,2-Dichloroethylenemg/LQuarterly1,2-Dichloroethylenemg/LQuarterly1,2-Dichloropropanemg/LQuarterly1,3-Dichloropropenemg/LQuarterly1,3-Dichloropropenemg/LQuarterly	Perchlorate	mg/L	Quarterly	
Thalliummg/LQuarterlyThalliummg/LQuarterlyBenzenemg/LQuarterlyCarbon Tetrachloridemg/LQuarterly1,2-Dichlorobenzenemg/LQuarterly1,4-Dichlorobenzenemg/LQuarterly1,1-Dichloroethanemg/LQuarterly1,2-Dichloroethanemg/LQuarterly1,2-Dichloroethanemg/LQuarterly1,1-Dichloroethylenemg/LQuarterly1,2-Dichloroethylenemg/LQuarterly1,2-Dichloroethylenemg/LQuarterly1,2-Dichloroethylenemg/LQuarterly1,2-Dichloroethylenemg/LQuarterly1,2-Dichloroethylenemg/LQuarterly1,2-Dichloropropanemg/LQuarterly1,3-Dichloropropanemg/LQuarterly1,3-Dichloropropenemg/LQuarterly	Selenium	mg/L	Quarterly	
Hamannmg/LQuarterlyBenzenemg/LQuarterlyCarbon Tetrachloridemg/LQuarterly1,2-Dichlorobenzenemg/LQuarterly1,4-Dichlorobenzenemg/LQuarterly1,1-Dichloroethanemg/LQuarterly1,2-Dichloroethanemg/LQuarterly1,1-Dichloroethylenemg/LQuarterly1,2-Dichloroethylenemg/LQuarterly1,2-Dichloroethylenemg/LQuarterly1,2-Dichloroethylenemg/LQuarterlytrans-1,2-Dichloroethylenemg/LQuarterlyDichloromethanemg/LQuarterly1,2-Dichloropropanemg/LQuarterly1,3-Dichloropropenemg/LQuarterly	Thallium	mg/L	Quarterly	
Defiziencemg/LQuarterlyCarbon Tetrachloridemg/LQuarterly1,2-Dichlorobenzenemg/LQuarterly1,4-Dichlorobenzenemg/LQuarterly1,1-Dichloroethanemg/LQuarterly1,2-Dichloroethanemg/LQuarterly1,1-Dichloroethylenemg/LQuarterly1,1-Dichloroethylenemg/LQuarterly1,2-Dichloroethylenemg/LQuarterlycis-1,2-Dichloroethylenemg/LQuarterlyDichloromethanemg/LQuarterly1,2-Dichloropropanemg/LQuarterly1,3-Dichloropropenemg/LQuarterly	Benzene	mg/L	Quarterly	
OutputIng/LQuarterly1,2-Dichlorobenzenemg/LQuarterly1,4-Dichlorobenzenemg/LQuarterly1,1-Dichloroethanemg/LQuarterly1,2-Dichloroethanemg/LQuarterly1,1-Dichloroethylenemg/LQuarterly1,1-Dichloroethylenemg/LQuarterlycis-1,2-Dichloroethylenemg/LQuarterlytrans-1,2-Dichloroethylenemg/LQuarterlyDichloromethanemg/LQuarterly1,2-Dichloropropanemg/LQuarterly1,3-Dichloropropenemg/LQuarterly	Carbon Tetrachloride	mg/L	Quarterly	
1,2 Distributionmg/LQuarterly1,4-Dichlorobenzenemg/LQuarterly1,1-Dichloroethanemg/LQuarterly1,2-Dichloroethanemg/LQuarterly1,1-Dichloroethylenemg/LQuarterly1,1-Dichloroethylenemg/LQuarterlycis-1,2-Dichloroethylenemg/LQuarterlytrans-1,2-Dichloroethylenemg/LQuarterlyDichloromethanemg/LQuarterly1,2-Dichloropropanemg/LQuarterly1,3-Dichloropropenemg/LQuarterly	1 2-Dichlorobenzene	mg/L	Quarterly	
1,1-Dichloroethanemg/LQuarterly1,1-Dichloroethanemg/LQuarterly1,2-Dichloroethylenemg/LQuarterlycis-1,2-Dichloroethylenemg/LQuarterlytrans-1,2-Dichloroethylenemg/LQuarterlyDichloromethanemg/LQuarterly1,2-Dichloropropanemg/LQuarterly1,3-Dichloropropenemg/LQuarterly	1 4-Dichlorobenzene	mg/L	Quarterly	
1,2-Dichloroethanemg/LQuarterly1,2-Dichloroethylenemg/LQuarterly1,1-Dichloroethylenemg/LQuarterlycis-1,2-Dichloroethylenemg/LQuarterlytrans-1,2-Dichloroethylenemg/LQuarterlyDichloromethanemg/LQuarterly1,2-Dichloropropanemg/LQuarterly1,3-Dichloropropenemg/LQuarterly	1 1-Dichloroethane	mg/L	Quarterly	
1,1-Dichloroethylenemg/LQuarterly1,1-Dichloroethylenemg/LQuarterlycis-1,2-Dichloroethylenemg/LQuarterlytrans-1,2-Dichloroethylenemg/LQuarterlyDichloromethanemg/LQuarterly1,2-Dichloropropanemg/LQuarterly1,3-Dichloropropenemg/LQuarterly	1 2-Dichloroethane	mg/L	Quarterly	
cis-1,2-Dichloroethylenemg/LQuarterlytrans-1,2-Dichloroethylenemg/LQuarterlyDichloromethanemg/LQuarterly1,2-Dichloropropanemg/LQuarterly1,3-Dichloropropenemg/LQuarterly	1 1-Dichloroethylene	mg/L	Quarterly	
trans-1,2-Dichloroethylenemg/LQuarterlyDichloromethanemg/LQuarterly1,2-Dichloropropanemg/LQuarterly1,3-Dichloropropenemg/LQuarterly	cis-1 2-Dichloroethylene	mg/L	Quarterly	
Dichloromethanemg/LQuarterly1,2-Dichloropropanemg/LQuarterly1,3-Dichloropropenemg/LQuarterly	trans-1 2-Dichloroethylene	mg/L	Quarterly	
1,2-Dichloropropanemg/LQuarterly1,3-Dichloropropenemg/LQuarterly	Dichloromethane	mg/L	Quarterly	
1,3-Dichloropropene mg/L Quarterly	1 2-Dichloropropage	mg/L	Quarterly	
	1.3-Dichloropropene	mg/L	Quarterly	
Ethylbenzene ma/l Quarterly	Fthylbenzene	mg/L	Quarterly	
MTBE mg/l Quarterly	MTBF	ma/l	Quarterly	

Paramotor	Unite	Minimum Sample		
Falailletei	Units	Frequency ²		
Monochlorobenzene	mg/L	Quarterly		
Styrene	mg/L	Quarterly		
1,1,2,2-Tetrachloroethane	mg/L	Quarterly		
Tetrachloroethylene	mg/L	Quarterly		
Toluene	mg/L	Quarterly		
1,2,4-Trichlorobenzene	mg/L	Quarterly		
1,1,1-Trichloroethane	mg/L	Quarterly		
1,1,2-Trichloroethane	mg/L	Quarterly		
1,2,3-Trichloropropane	mg/L	Quarterly		
Trichloroethylene	mg/L	Quarterly		
Trichlorofluoromethane	mg/L	Quarterly		
1,1,2-Trichloro-1,2,2- Trifluoroethane	mg/L	Quarterly		
Vinyl Chloride	mg/L	Quarterly		
Xylenes (m,p)	mg/L	Quarterly		
Alachlor	mg/L	Quarterly		
Atrazine	mg/L	Quarterly		
Bentazon	mg/L	Quarterly		
Benzo(a)pyrene	mg/L	Quarterly		
Carbofuran	mg/L	Quarterly		
Chlordane	mg/L	Quarterly		
2,4-Dichlorophenoxyacetic acid	mg/L	Quarterly		
Dalapon	mg/L	Quarterly		
1,2-Dibromo-3-chloropropane	mg/L	Quarterly		
Di(2-ethylhexyl)adipate	mg/L	Quarterly		
Di(2-ethylhexyl)phthalate	mg/L	Quarterly		
Dinoseb	mg/L	Quarterly		
Diquat	mg/L	Quarterly		
Endothall	mg/L	Quarterly		
Endrin	mg/L	Quarterly		
Ethylene Dibromide	mg/L	Quarterly		
Glyphosate	mg/L	Quarterly		
Heptachlor	mg/L	Quarterly		
Heptachlor epoxide	mg/L	Quarterly		
Hexachlorobenzene	mg/L	Quarterly		
Hexachlorocyclopentadiene	mg/L	Quarterly		
Lindane	mg/L	Quarterly		
Methoxychlor	mg/L	Quarterly		
Molinate	mg/L	Quarterly		
Oxamyl	mg/L	Quarterly		
Pentachlorophenol	mg/L	Quarterly		
Picloram	mg/L	Quarterly		

Paramotor	Linite	Minimum Sample		
Falameter	Units	Frequency ²		
PCBs	mg/L	Quarterly		
Simazine	mg/L	Quarterly		
Thiobencarb	mg/L	Quarterly		
Toxaphene	mg/L	Quarterly		
1,2,3-Trichloropropane	mg/L	Quarterly		
Dioxin	mg/L	Quarterly		
Silvex	mg/L	Quarterly		
Bromodichloromethane	mg/L	Quarterly		
Bromoform	mg/L	Quarterly		
Chloroform	mg/L	Quarterly		
Dibromochloromethane	mg/L	Quarterly		
Monochloroacetic acid	mg/L	Quarterly		
Dichloroacetic acid	mg/L	Quarterly		
Trichloroacetic acid	mg/L	Quarterly		
Monobromoacetic acid	mg/L	Quarterly		
Dibromoacetic acid	mg/L	Quarterly		
Bromate	mg/L	Quarterly		
Chlorite	mg/L	Quarterly		
Combined Radium-226 and		Querterly		
Radium-228	pCI/L	Quarterry		
Gross Alpha particle activity				
(excluding radon and	pCi/L	Quarterly		
uranium)				
Uranium	pCi/L	Quarterly		
Beta/photon emitters	millirem/yr	Quarterly		
Strontium-90	pCi/L	Quarterly		
Tritium	pCi/L	Quarterly		
Boron	mg/L	Quarterly		
Aldrin	μg/L	Quarterly		
Dieldrin	μg/L	Quarterly		
4,4'-DDT	μg/L	Quarterly		
4,4'-DDE	μg/L	Quarterly		
4,4'-DDD	μg/L	Quarterly		
Alpha-endosulfan	μg/L	Quarterly		
Beta-endosulfan	μg/L	Quarterly		
Endosulfan sulfate	μg/L	Quarterly		
Endrin aldehyde	μg/L	Quarterly		
Alpha-BHC	μg/L	Quarterly		
Beta-BHC	μg/L	Quarterly		
Delta-BHC	μg/L	Quarterly		
Acrolein	μg/L	Quarterly		
Acrylonitrile	μg/L	Quarterly		
Chlorobenzene	μg/L	Quarterly		

Paramotor	Unite	Minimum Sample		
Falameter	Units	Frequency ²		
Chloroethane	μg/L	Quarterly		
1,1-dichloroethylene	μg/L	Quarterly		
Methyl chloride	μg/L	Quarterly		
Methyl bromide	μg/L	Quarterly		
2-chloroethyl vinyl ether	μg/L	Quarterly		
2,4,6-trichlorophenol	μg/L	Quarterly		
P-chloro-m-cresol	μg/L	Quarterly		
2-chlorophenol	μg/L	Quarterly		
2,4-dichlorophenol	μg/L	Quarterly		
2,4-dimethylphenol	μg/L	Quarterly		
2-nitrophenol	μg/L	Quarterly		
4-nitrophenol	μg/L	Quarterly		
2,4-dinitrophenol	μg/L	Quarterly		
2-methyl-4,6-dintrophenol	μg/L	Quarterly		
Phenol	μg/L	Quarterly		
Chromium (III) trivalent	μg/L	Quarterly		
Acenaphthene	μg/L	Quarterly		
Benzidine	μg/L	Quarterly		
Hexachloroethane	µg/L	Quarterly		
Bis(2-chloroethyl)ether	μg/L	Quarterly		
2-chloronaphthalene	μg/L	Quarterly		
1,3-dichlorobenzene	μg/L	Quarterly		
3,3'-dichlorobenzidine	μg/L	Quarterly		
2,4-dinitrotoluene	μg/L	Quarterly		
2,6-dinitrotoluene	μg/L	Quarterly		
1,2-diphenylhydrazine	μg/L	Quarterly		
Fluoranthene	μg/L	Quarterly		
4-chlorophenyl phenyl ether	μg/L	Quarterly		
4-bromophenyl phenyl ether	μg/L	Quarterly		
Bis(2-chloroisopropyl)ether	μg/L	Quarterly		
Bis(2-chloroethoxyl)methane	μg/L	Quarterly		
Hexachlorobutadiene	μg/L	Quarterly		
Isophorone	μg/L	Quarterly		
Nitrobenzene	μg/L	Quarterly		
NDPA	μg/L	Quarterly		
N-nitrosodiphenylamine	μg/L	Quarterly		
Bis(2-ethylhexyl)phthalate	μg/L	Quarterly		
Butyl benzyl phthalate	μg/L	Quarterly		
Di-n-butyl phthalate	μg/L	Quarterly		
Di-n-octyl phthalate	μg/L	Quarterly		
Diethyl phthalate	μg/L	Quarterly		
Dimethyl phthalate	μg/L	Quarterly		
Benzo(a)anthracene	μg/L	Quarterly		

Parameter	Units	Minimum Sample Frequency ²
Benzo(b)fluoranthene	μg/L	Quarterly
Benzo(k)fluoranthene	μg/L	Quarterly
Chrysene	μg/L	Quarterly
Acenaphthylene	μg/L	Quarterly
Anthracene	μg/L	Quarterly
1,12-benzoperylene	μg/L	Quarterly
Fluorene	μg/L	Quarterly
Phenanthrene	μg/L	Quarterly
1,2,5,6-dibenzanthracene	μg/L	Quarterly
Indeno(1,2,3-cd)pyrene	μg/L	Quarterly
Pyrene	μg/L	Quarterly

¹The Discharger will <u>monitor</u> install MW-C-1 and MW-C-2 if Injection Well 006 is <u>in use</u> needed to reach the goal of 3.0 MGD discharged to the groundwater basin and the goal cannot be met using only Injection Wells 001 and 003.

²The Discharger may reduce the monitoring frequency in accordance with section II.K of this MRP.

³Groundwater elevation must be based on depth to water using a surveyed measuring point elevation on the well and a surveyed reference elevation.

⁴The Discharger may reduce monitoring for gradient and gradient direction to annually after the first year of operation.

11. Tentative Order No. R9-2021-0100, Attachment E – Monitoring and Reporting Requirements, section V.B.1, Table E-12 will be modified as follows:

Parameter	Units	Relevance	Sample Type	Minimum Sample Frequency	Reporting Limit	Monitoring Location(s)
1-4, Dioxane	µg/L	Health	24-Hour composite	Quarterly ⁴	0.1	M-008, MW-A-1
N- Nitrosodimethylamine (NDMA) ^{1_4}	µg/L	Health/Performance	Grab	Quarterly ¹	0.002	MFE, M- 008, MW-A- 1
N-Nitrosomorpholine (NMOR)	µg/L	Health	Grab	Quarterly ¹	0.002	M-008, MW-A-1
Perfluorooctane sulfonate (PFOS)	µg/L	Health	Grab	Quarterly ⁴	0.0065	M-008, MW-A-1
Perfluorooctanoic acid (PFOA)	µg/L	Health	Grab	Quarterly ⁴	0.0007	M-008, MW-A-1
Sucralose ¹²	µg/L	Performance	Grab	Quarterly	0.1	MFE, M- 008, MW-A- 1

Table E-12. CEC Initial Assessment Monitoring: Health, Performance, and Surrogates

Parameter	Units	Relevance	Sample Type	Minimum Sample Frequency	Reporting Limit	Monitoring Location(s)
Sulfamethoxazole	µg/L	Performance	Grab	Quarterly	0.01	M-008, MW-A-1
Electrical Conductivity	millimho per centimeter (mmho/cm) or decisiemens per meter (dS/m)	Surrogate	Grab	Quarterly	-	M-008
UV Light Absorbance	%	Surrogate	Grab	Quarterly	-	M-008

¹If at any time during the first year the monitoring results show detections, the monitoring frequency automatically increases to once per month until the end of the initial assessment phase. ¹²Section VII.C of the WRRs requires more frequent monitoring.

12. Tentative Order No. R9-2021-0100, Attachment E – Monitoring and Reporting Requirements, section V.B.2, Table E-14 will be modified as follows:

Table F-14 CEC Baseline	Monitoring: Health	Porformanco	and Surrogates
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Parameter ¹	Units	Relevance	Sample Type	Minimum Sample Frequency	Reporting Limit	Monitoring Location(s)
1-4, Dioxane	µg/L	Health	24-Hour composite	Once per 6 months ²	0.1	M-008, MW-A-1
N- Nitrosodimethylamine ⁴	µg/L	Health/ Performance	Grab	Once per 6 months ²	0.002	MFE, M- 008, MW-A- 1
N-Nitrosomorpholine (NMOR)	µg/L	Health	Grab	Once per 6 months ²	0.002	M-008, MW-A-1
Perfluorooctane sulfonate (PFOS)	µg/L	Health	Grab	Once per 6 months ²	0.0065	M-008, MW-A-1
Perfluorooctanoic acid (PFOA)	µg/L	Health	Grab	Once per 6 months ²	0.0007	M-008, MW-A-1
Sucralose ⁴	µg/L	Performance	Grab	Once per 6 months ² TBD ³	0.1	MFE, M- 008, MW-A- 1
Sulfamethoxazole	µg/L	Performance	Grab	Once per 6 months ² TBD ³	0.01	M-008, MW-A-1
Electrical Conductivity	Mmho/cm or dS/m	Surrogate	Grab	TBD ³	-	M-008
UV Light Absorbance	%	Surrogate	Grab	TBD ³	-	M-008

¹The San Diego Water Board may remove or add parameters based on the findings of the initial assessment monitoring phase.

²More frequent monitoring may be required if a threshold described in Table E-19 of this MRP is exceeded.

³Frequency will be specified by the San Diego Water Board after reviewing the monitoring results from the initial assessment phase.

⁴More frequent monitoring required by section VII.C of the WRRs in Attachment D of the Order.

13. Tentative Order No. R9-2021-0100, Attachment E – Monitoring and Reporting Requirements, section V.B.3, Table E-16 will be modified as follows:

Table E-16. CEC Standard Operation Monitoring: Health, Performance, and Surrogates

Parameter ¹	Units	Relevance	Sample Type	Minimum Sample Frequency	Reporting Limit	Monitoring Location(s)
1-4, Dioxane	µg/L	Health	24-Hour composite	Once per 6 months ²	0.1	M-008, MW-A-1
NDMA ⁴	µg/L	Health/Performance	Grab	Once per 6 months ²	0.002	MFE, M- 008, MW-A- 1
NMOR	µg/L	Health	Grab	Once per 6 months ²	0.002	M-008, MW-A-1
PFOS	µg/L	Health	Grab	Once per 6 months ²	0.0065	M-008, MW-A-1
PFOA	µg/L	Health	Grab	Once per 6 months ²	0.0007	M-008, MW-A-1
Sucralose ⁴	µg/L	Performance	Grab	Once per 6 months ² TBD ³	0.1	MFE, M- 008, MW-A- 1
Sulfamethoxazole	µg/L	Performance	Grab	Once per 6 months ² TBD ³	0.01	M-008, MW-A-1
Electrical Conductivity	Mmho/cm or dS/m	Surrogate	Recorder	TBD ³	-	M-008
UV Light Absorbance	%	Surrogate	Grab	TBD ³	-	M-008

¹The San Diego Water Board may add or remove parameters based on the findings of the initial assessment monitoring phase.

²More frequent monitoring may be required if a threshold described in Table E-19 of this MRP is exceeded.

³Frequency will be specified by the San Diego Water Board after reviewing the monitoring results from the initial assessment phase.

⁴Section VII.C of the WRRs requires more frequent monitoring.

14. Tentative Order No. R9-2021-0100, Attachment F – Fact Sheet, section II.A.1 will be modified as follows:

San Luis Rey Water Reclamation Facility. The Discharger has owned and operated the SLRWRF since its construction in 1972. The original design capacity of the SLRWRF was 9.4 MGD. Since a 2004 upgrade, Tthe SLRWRF has the capacity to treat an annual average of 17.6 13.5 MGD through two treatment trains. The SLRWRF treats raw wastewater through conventional activated sludge treatment consisting of flow equalization, primary clarifiers, aeration basins, and secondary clarifiers. The Discharger recycles a portion of effluent through tertiary treatment, producing non-potable recycled water reused for landscape irrigation and regulated by Order No. 93-07 Waste Discharge Requirements for the San Luis Rev Wastewater Treatment Plant City of Oceanside San Diego County (Order No. 93-07) as amended by Addendum No. 1 to Order No. 93-07, Waste Discharge Requirements for the San Luis Rey Wastewater Treatment Plant, City of Oceanside, San Diego County (Addendum 1). Secondary treated effluent from the SLRWRF, that was not recycled, is discharged to the Pacific Ocean through the Oceanside Ocean Outfall (OOO) pursuant to Order No. R9-2019-0166, as amended by Order No. R9-2020-0190, National Pollutant Discharge Elimination System (NPDES) No. CA0107433, Waste Discharge Requirements for the City of Oceanside San Luis Rev Water Reclamation Facility, La Salina Wastewater Treatment Plant, and Mission Basin Groundwater Purification Facility Discharge to the Pacific Ocean through the Oceanside Ocean Outfall (Order No. R9-2019-0166).

15. Tentative Order No. R9-2021-0100, Attachment F – Fact Sheet, section II.A.2 will be modified as follows:

Advanced Water Purification Facility. The Discharger has constructed the Facility at the SLRWRF to further treat the secondary effluent for indirect potable reuse. The Facility consists of ultrafiltration (UF), reverse osmosis (RO), ultraviolet-advanced oxidation process (AOP), post treatment stabilization, and free chlorine disinfection. The Facility will receive secondary effluent from the SLRWRF (Attachment B, Figure B-2 and Attachment C, Figure C-1).

The UF system removes suspended solids and colloidal particulates from the influent stream to the Facility's RO process. The UF system also removes inert particulates, organic particulates, colloidal particulates, most pathogenic organisms, bacteria, and other particles by the size exclusion sieve action of the membranes. UF membranes are rated with a nominal pore size rating of approximately 0.01 micrometers (μ m) (ultrafiltration) to 0.1 μ m (microfiltration). The Facility has strainers immediately upstream of the UF membranes to protect against damage and/or fouling from larger particulates. Spent UF backwash water is diverted to an onsite wastewater wet well and discharged to the SLRWRF's clarifier.

The RO system follows the UF system. The RO process removes dissolved inorganic and organic constituents including contaminants of emerging concern (CECs) and taste and odor causing compounds. The RO system consists of RO feed pumps and treatment vessels. A basket strainer on the influent to the RO

system prevents any large particulates from entering and damaging the RO pumps and membranes. The RO concentrate is discharged to the OOO pursuant to Order No. R9-2019-0166. The product water (i.e. permeate) from the RO system requires further chemical stabilization to prevent pipe corrosion.

Following the RO system, the Discharger adds sodium hydroxide and calcium hydroxide to the effluent to stabilize and increase the pH of the water prior to entering the AOP system. In the AOP system, the stabilized effluent from the RO system is initially dosed with sodium hypochlorite and mixed by a static mixer. The effluent then enters a set of UV reactors operating in parallel. Each UV reactor houses multiple UV lamps that the water flows past for irradiation by UV light. Poststabilization chemicals are added to the conveyance pipeline upstream of the free chlorine disinfection compliance location. The free chlorine disinfection process considers the effect of post-stabilization on pH for free chlorine residual contact time determination.

Following the <u>stabilization</u> UV reactors, the Discharger adds sodium hypochlorite in the product water clear well for disinfection. The disinfection will take place in the product water clear well and 350 feet of conveyance pipeline prior to exiting the Facility. The Discharger has completed a DDW approved tracer study to determine the proper baffling factor for both the clear well and pipeline.

16. Tentative Order No. R9-2021-0100, Attachment F – Fact Sheet, section II.B.1 will be modified as follows:

Groundwater Injection Wells. The Discharger will utilize two or three injection wells to discharge the advanced treated recycled water into the Basin (Attachment B, Figure B-3). The Order regulates the discharge of advanced treated recycled water, through the injection wells, to the groundwater basin. The Discharger's goal for the injection volume is 3,360 acre-feet (AF) per year, or approximately 3.0 MGD. The target injection flowrate for an individual injection well is 1,050 gallons per minute, or approximately 1.5 MGD. The Discharger has installed Injection Wells 001, 003, and 006. The target injection flowrate for an individual injection well is 1,160 gallons per minute, or approximately 1 MGD. The Discharger plans to install Injection Wells 001 and 003 prior to Injection Well 006. If Injection Wells 001 and 003 can each achieve a sustained flowrate of 1.5 MGD, the installation of Injection Well 006 will be unnecessary. The injection wells will discharge to the deeper aquifer, which is overlain by a groundwater basin-wide aguitard. The aguitard confines groundwater in the deeper aguifer therefore injection to the deeper zone is not anticipated to raise groundwater elevations in the shallow aguifer. Table F-2 below lists the locations of each injection well:

17. Tentative Order No. R9-2021-0100, Attachment F – Fact Sheet, section II.C will be modified as follows:

Monitoring Wells. The Discharger will monitor the groundwater quality

downgradient from the injection wells using four monitoring wells, and two additional monitoring wells if necessary. The Discharger will install clustered Monitoring Wells MW-A-1 and MW-B-1 in the deep and shallow aquifer prior to discharging to Injection Wells 001 and 003. The Discharger has installed will install a third clustered monitoring well, MW-C-1, in the deep and shallow aquifer for when if Injection Well 006 is <u>used installed</u>. Each of the clustered monitoring wells will allow groundwater elevations to be measured and water quality samples to be collected, from both the deep and shallow aquifers. Section IV.H of the MRP requires groundwater monitoring to assess any potential impacts to receiving waters from the discharge. Table F-3 below lists the monitoring wells and their locations.

18. Tentative Order No. R9-2021-0100, Attachment F – Fact Sheet, section II.C, Table F-3, will be modified as follows:

Monitoring Well	Latitude	Longitude
A	33.233509	-117.331042
В	33.227635	-117.338333
C ⁴	33.230943	-117.331071

Table F-3. Monitoring Well Locations

⁴The Discharger will install Monitoring Well C if Injection Well 006 is needed and installed.