California Regional Water Quality Control Board
Santa Ana Region
3737 Main Street, Suite 500
Riverside, CA 92501-3348

NOTICE OF PUBLIC HEARING

For
RESOLUTION NO. R8-2006-0042
ORDER NO. R8-2006-0005

For
INITIAL STUDY AND NEGATIVE DECLARATION AND ISSUANCE OF GENERAL WASTE DISCHARGE REQUIREMENTS FOR DISCHARGE OF SALTS THROUGH THE INJECTION/PERCOLATION OF IMPORTED STATE PROJECT WATER, COLORADO RIVER WATER OR IMPORTED WELL WATER TO RECHARGE GROUNDWATER MANAGEMENT ZONES WITHIN THE SANTA ANA REGION

On the basis of preliminary staff review and application of lawful standards and regulations, the California Regional Water Quality Control Board, Santa Ana Region (hereinafter Regional Water Board), proposes to adopt an initial study and negative declaration and issue general waste discharge requirements for the injection/percolation of imported State Project Water, Colorado River water or imported well water to recharge groundwater management zones within the Santa Ana. Region.

The Board is seeking comments concerning the proposed initial study and negative declaration and general waste discharge requirements and the potential effects of the discharges on the water quality and beneficial uses of the affected receiving waters.

The Board will hold a public hearing to consider adoption of the proposed waste discharge requirements as follows:

DATE:	July 14, 2006
TIME:	9:00 a.m.
PLACE:	City Council Chambers of Santa Ana 22 Civic Center Plaza City of Santa Ana

Interested persons are invited to submit written comments on the proposed Resolution No. R8-2006-0042 and Order No. R8-2006-0005. Interested persons are also invited to attend the public hearing and express their views on issues relating to the proposed Order and submission. Oral statements will be heard, but should be brief to allow all interested persons time to be heard. For the accuracy of the record, all testimony (oral statements) should be submitted in writing.

Although all comments that are provided up to and during the public hearing on this matter will be considered, receipt of comments by June 26, 2006 would be appreciated so that they can be used in the formulation of the draft Order that will be transmitted to the Board two weeks prior to the hearing. The draft Order may contain changes resulting from comments received from the public. To view and/or download a copy of the draft Order, please access our website at *www.waterboards.ca.gov/santaana* on or after July 3, 2006.

The Board's proposed Order, related documents, and all comments and petitions received may be inspected and copied at the Regional Board office, 3737 Main Street, Suite 500, Riverside, CA 92501-3348 (phone 951-782-4130) by appointment scheduled between the hours of 9:00 a.m. and 3:00 p.m., Monday through Friday. Copies of the proposed Order will be mailed to interested persons upon request to J. Shami (951) 782-3288.

Any person who is physically challenged and requires reasonable accommodation to participate in this Regional Board Meeting should contact Felipa Carrillo at (951) 782-3285 no later than May 8, 2006.

California Regional Water Quality Control Board
Santa Ana Region

Order No. R8-2006-0005

GENERAL WASTE DISCHARGE REQUIREMENTS FOR THE DISCHARGE OF SALTS THROUGH INJECTION/PERCOLATION OF IMPORTED STATE PROJECT WATER, COLORADO RIVER WATER OR IMPORTED WELL WATER TO RECHARGE GROUNDWATER MANAGEMENT ZONES WITHIN THE SANTA ANA REGION – GROUNDWATER REPLENISHMENT PROJECTS

The California Regional Water Quality Control Board, Santa Ana Region (hereinafter Regional Water Board), finds that:

1. The Regional Water Board adopted a revised Water Quality Control Plan for the Santa Ana Region (hereinafter Basin Plan) that became effective on January 24, 1995. The Basin Plan designates beneficial uses, establishes water quality objectives, and contains implementation programs and policies to achieve those objectives for all waters in the Santa Ana Region addressed through the plan. More recently, the Basin Plan was amended significantly to incorporate revised boundaries for groundwater subbasins, now termed "management zones", new nitrate-nitrogen and TDS objectives for the new management zones, and new nitrogen and TDS management strategies applicable to both surface and ground waters. This Basin Plan Amendment was adopted by the Regional Water Board on January 22, 2004. The State Water Resources Control Board (State Water Board) and Office of Administrative Law (OAL) approved the Amendment on September 30, 2004 and December 23, 2004, respectively. The surface water standards provisions of the Amendment are awaiting approval by the U.S. Environmental Protection Agency. The groundwater-related components of the N/TDS Amendment became effective upon approval by OAL. Accordingly, these waste discharge requirements implement relevant, groundwater-related components of the N/TDS Amendment.

2. The adoption of the N/TDS Amendment resulted from an intensive and scientifically rigorous effort by stakeholders throughout the Region to address nitrogen and TDS water quality objectives and management strategies. Given the increased number and magnitude of water recharge projects being contemplated in the Region, and in view of the extensive commitments that have been and will be made by dischargers and other stakeholders in the Region to develop and implement the new TDS and nitrogen objectives, it is appropriate, as well as legally necessary, to assure that those projects are consistent with the objectives. Failure to assure proper regulation of recharge projects could result in violations of Basin Plan objectives and compromise TDS and nitrogen management strategies implemented by other parties. The adoption of these general waste discharge requirements for groundwater recharge projects will facilitate groundwater replenishment projects needed to assure a reliable water supply and will assure that such projects are conducted in accordance with the Basin Plan.

TENTATIVE

3. As shown in Chapter 4 of the Basin Plan as amended by the N/TDS Amendment, two sets of TDS and nitrate-nitrogen objectives have been adopted for certain groundwater management zones (Chino North, Cucamonga, Yucaipa, San Timoteo and Beaumont Groundwater Management Zones (GMZ)): the "maximum benefit" objectives and more stringent objectives based on historic ambient quality (the "antidegradation" objectives). The application of the "maximum benefit" objectives for these Management Zones is contingent on the implementation of commitments by identified responsible parties to implement specific water and wastewater resources management programs. These parties include the Chino Basin Watermaster and Inland Empire Utilities Agency (Chino North, Cucamonga GMZs), the City of Beaumont and the San Timoteo Watershed Management Authority (San Timoteo and Beaumont GMZs) and the Yucaipa Valley Water District (Yucaipa and San Timoteo GMZs). The maximum benefit commitments of these agencies are delineated in Chapter 5 of the Basin Plan, as amended by the N/TDS Amendment and include compliance dates for the implementation of specific activities. These programs are part of a coordinated effort by the agencies to develop and implement projects that will assure reliable water supplies to meet rapidly increasing demands in this area.

4. This Order implements relevant portions of the N/TDS Amendment by specifying effluent limitations and other requirements based on the nitrate-nitrogen and TDS objectives for the groundwater management zones. Where both "maximum benefit" and "antidegradation" objectives apply, effluent limitations and other requirements based on both sets of objectives are specified. Provided that the maximum benefit commitments shown in the N/TDS Amendment are satisfied, then the requirements of the Order that address the "maximum benefit" objectives apply. If the Regional Board finds that the maximum benefit commitments are not being met, then the requirements of the Order that address the "antidegradation" TDS and nitrate-nitrogen objectives for these GMZ apply.

5. Entity(ies)/individual(s) proposing to recharge State Project water, Colorado River water or other imported water, including well water, into groundwater management zones within the Santa Ana Region are hereinafter referred to as "discharger" and are subject to the terms and conditions of this Order.

6. The existing and potential beneficial uses of underlying groundwater basins in the Santa Ana Region include:

   a. Municipal and domestic supply,

   b. Agricultural supply,

   c. Industrial service supply, and

   d. Industrial process supply.

7. The requirements contained in this Order are necessary to implement the Basin Plan.

8. Dischargers seeking coverage under these General WDRs must file with the Regional Board: (a) a Notice of Intent (NOI) to comply with the terms and conditions of these General WDRs or a Report of waste discharge (ROWD); (b) the applicable first annual fee as required by Title 23, CCR, Section 2200; (c) a project map; (d) evidence of California Environmental Quality Act (CEQA) compliance; and (e) a proposed monitoring plan. Upon review by Regional Board staff, a determination will be made as to whether or not coverage under these General WDRs is appropriate. A letter from the Regional Board Executive Officer will notify the Discharger when coverage under these General WDRs is authorized and will include project-specific monitoring and reporting requirements. If necessary, individual requirements will be developed to address projects that cannot be authorized under these General WDRs.

9. A Negative Declaration in compliance with CEQA has been adopted for these General WDRs. The environmental impacts from new discharges authorized by these General WDRs have been found to be less than significant.

10. The Regional Board has notified interested agencies and persons of its intent to prescribe general waste discharge requirements and has provided them with an opportunity to submit their written views and recommendations.

11. The Regional Board, in a public hearing, heard and considered all comments pertaining to these general waste discharge requirements.

IT IS HEREBY ORDERED that the Discharger, in order to meet the provisions contained in Division 7 of the California Water Code and regulations adopted thereunder shall comply with the following:

A. DISCHARGE SPECIFICATIONS

1. The discharge of wastes containing constituent concentrations in excess of the following limits is prohibited:

Constituent	5 Year Average Concentration Limit[1]
Total Dissolved Solids (TDS)	TDS Water Quality Objective as shown in the Attachment "A" corresponding to the affected Groundwater Management Zone

[1] Five year average concentration limit means the highest allowable average of monthly discharges over the last 60 months, calculated as the sum of all monthly discharges measured during last sixty months divided by the number of monthly discharges measured during that time period.

Constituent	5 Year Average Concentration Limit[1]
Total Inorganic Nitrogen (TIN)	TIN Water Quality Objective as shown in the Attachment "A" corresponding to the affected Groundwater Management Zone

2. The pH of the discharge shall be within the range of 6 to 9 pH units.

3. The injection/percolation of water for recharge shall not cause degradation of the receiving groundwater.

B. PROHIBITIONS

1. The discharge of waste that may affect the beneficial uses of the groundwater is prohibited.

2. The discharge of wastes to property not owned or controlled by the discharger is prohibited.

3. The discharge of any substances in concentrations toxic to human, animal, plant or aquatic life is prohibited.

C. PROVISIONS

1. Neither the treatment nor the discharge of waste shall create, or threaten to create, a nuisance or pollution as defined by Section 13050 of the California Water Code.

2. For projects that would affect groundwater management zones with established TDS and nitrate-nitrogen objectives based on both "maximum benefit" and "antidegradation", the Discharger shall obtain confirmation from the agency (-ies) responsible for implementing relevant maximum benefit commitments[2], as specified in Tables 5-8a, 5-9a and 5-10a of the Basin Plan, that their proposed project is consistent with the agency's maximum benefit program. This confirmation shall be submitted as part of the NOI or ROWD. Absent this confirmation, the Discharger is required to comply with the TDS and nitrate-nitrogen limitations of this Order that are based on the antidegradation objectives.

3. The Executive Officer shall determine whether the proposed discharge is eligible for coverage under these general waste discharge requirements, after which, the Executive Officer may;

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[2] Includes the following agencies: Chino Basin Watermaster/Inland Empire Utilities Agency, the Yucaipa Valley Water District and the City of Beaumont/San Timoteo Watershed Management Authority

a. Authorize the proposed discharge by transmitting a "Discharge Authorization Letter" to the discharge proponent (now an "authorized discharger") authorizing the initiation of the discharge under the conditions of this Order and any other conditions consistent with this Order that are necessary to protect the beneficial uses of the receiving waters; or,

b. Require the discharge proponent to obtain individual waste discharge requirements prior to any discharge to waters of the State within the Santa Ana Region.

4. The discharge authorization letter from the Executive Officer shall specify any conditions necessary to protect the beneficial uses of the receiving waters and shall specify the Self-Monitoring Program for the proposed discharge in accordance with this Order. The discharge authorization letter may be terminated or revised by the Executive Officer at any time.

5. The discharger shall comply with all requirements of this Order and the terms, conditions and limitations of the discharge authorization letter.

6. The discharger shall comply with the monitoring and reporting program R8-2006-0005 issued by the Executive Officer. Revision of this monitoring and reporting program by the Executive Officer may be necessary to confirm that the discharger is in compliance with the requirements and provisions contained in this Order. Revisions may be made by the Executive Officer at any time during the term of this Order, and may include a reduction or an increase in the number of constituents to be monitored, the frequency of monitoring or the number and size of samples collected.

7. Compliance with the 12-month average limit specified under Discharge Specifications A.1. shall be determined by the arithmetic mean of the last twelve monthly averages.

8. Compliance with the effluent limitations shall be based on the practical quantitation levels (PQL) specified in Attachment "A" of M&RP No. R8-2006-0005 or on the lower detection limits achieved by the discharger. The discharge shall be considered to be in compliance with an effluent limitation that is less than or equal to the PQL specified in Attachment "A" of M&RP No. R8-2006-0005 if the arithmetic mean of all test results for the monitoring period is less than the constituent effluent limitation. Analytical results that are less than the specified PQL shall be assigned a value of zero.

9. Compliance determinations shall be based on available analyses for the time interval associated with the effluent limitation. Where only one sample analysis is available in a specified time interval (e.g., weekly, monthly, quarterly), that sample shall serve to characterize the discharge for the entire interval.

10. Compliance based on a single sample analysis shall be determined where appropriate, as described below:

a. When the effluent limitation is greater than or equal to the PQL, compliance shall be determined based on the effluent limitation in either single or multiple sample analyses.

b. When the effluent limitation is less than the PQL, compliance determinations based on analysis of a single sample shall only be undertaken if the concentration of the constituent of concern in the sample is greater than or equal to the PQL.

11. The discharger must comply with all of the requirements of this Order. Any violation of this Order constitutes a violation of the California Water Code and is grounds for enforcement action, termination of this Order, revocation and reissuance of this Order, denial of an application for reissuance of this Order, or a combination thereof.

12. The discharger shall take all reasonable steps to minimize or prevent any discharge that has a reasonable likelihood of adversely affecting human health or the environment.

13. The discharger shall take all reasonable steps to minimize any adverse impact to receiving waters resulting from noncompliance with any requirements specified in this Order, including such accelerated or additional monitoring as necessary to determine the nature and impact of the noncomplying discharge.

14. The discharger shall maintain a copy of this Order at the site so that it is available to site operating personnel at all times. Key operating personnel shall be familiar with its content.

15. The discharger shall notify the Regional Board in advance of any planned physical alterations or additions to the permitted facility or changes in operation including any material change or proposed change in the character, location or volume of the discharge or activity that may result in noncompliance with these waste discharge requirements.

16. The discharger shall permit Board staff:

a. Entry upon premises in which an effluent source is located, or in which any required records are kept;

b. Access to copy any records required to be kept under the terms and conditions of this Order;

c. Inspection of monitoring equipment records; and

d. To sample any discharge.

17. The discharger shall report any discharge of waste that may endanger health or the environment. Any information shall be provided to the Executive Officer (909-782-4130) and the Office of Emergency Services (800-852-7550), if appropriate, as soon as the discharger becomes aware of the circumstances. A written report shall be submitted within five (5) days and shall contain a description of the discharge and its cause, the period of discharge, including exact dates and times and, if the discharge has not been corrected, the anticipated time it is expected to continue, and steps taken or planned to reduce, eliminate, and prevent reoccurrence of the discharge.

18. The California Water Code provides that any person who violates a waste discharge requirement or a provision of the California Water Code is subject to civil penalties of up to $5,000 per day, $10,000 per day, or $25,000 per day of violation, or when the violation involves the discharge of pollutants, is subject to civil penalties of up to $10 per gallon per day, or $20 per gallon per day of violation; or some combination thereof, depending on the violation, or upon the combination of violations.

D. REQUIRED REPORTS AND NOTICES

1. The discharger shall give advance notice to the Regional Board of any planned changes in the permitted facility or activity that may result in noncompliance with these waste discharge requirements.

2. In the event of any change in control or ownership of land or waste discharge facilities currently owned or controlled by the discharger, the discharger shall notify the succeeding owner or operator of the existence of their authorization to recharge under this general permit by letter, a copy of which together with the signed agreement between previous owner and the new owner accepting responsibility and liability for complying with this general permit shall be forwarded to the Executive Officer.

3. Upon completion of the project, the discharger shall notify the Executive Officer of the Regional Board in writing about cessation of the discharge and shall request for termination of coverage under this general permit.

E. APPLICATION REQUIREMENTS

1. At least 60 days before the intended start of a new discharge or individual permit expiration, the discharger shall submit an application for coverage under this Order. The authorization letter from the Executive Officer is required prior to commencement of the discharge. The application shall consist of the following information:

    a. Notice of Intent to be covered under this general permit.

    b. A report that shall include the following:

1) Characterization of the proposed recharge water. A representative water sample shall be analyzed for all 126-priority pollutants[3] listed in Attachment B of the M&RP, TDS and nitrate-nitrogen.
2) The name and location where groundwater recharge is planned;
3) The groundwater management zone(s) that would be affected by the discharge;
4) The estimated average and maximum daily flow rates;
5) The frequency and duration of the discharge;
6) A description of the proposed treatment system (if appropriate); and
7) A map showing locations and sizes of recharge basins or aquifer storage/recovery wells.
8) For discharges that would affect groundwater management zones with both maximum benefit and antidegradation TDS and nitrate-nitrogen objectives, confirmation from the agency/-ies responsible for maximum benefit commitments (see Provisions C.2.) that the discharge is consistent with the maximum benefit program.

c. Any other information deemed necessary by the Executive Officer.

I, Gerard J. Thibeault, Executive Officer, do hereby certify that the foregoing is a full, true, and correct copy of an order adopted by the California Regional Water Quality Control Board, Santa Ana Region, on July 14, 2006.

_____
Gerard J. Thibeault
Executive Officer

[3] *Test methods shall be in accordance with 40 CFR 136. For testing organic volatile compounds use EPA Method 8260 and report entire suite of detected constituents. The method detection limit and detection level attained shall also be reported with the test results.*

Groundwater Management Zones	Water Quality Objective (mg/L)		
	TDS	TIN Limit for Reinjection	TIN Limit for Recharge/ Percolation Projects
Big Bear Valley*	220	5.0	6.67
Beaumont "maximum benefit"++	290[4]	5.0[4]	3.47
Beaumont "antidegradation" ++	230	1.5	2.00
Bunker Hill – A	310	2.7	3.60
Bunker Hill – B	260[4]	7.3[4]	7.33
Colton	410	2.7	3.60
Chino – North "maximum benefit" ++	300[4]	5.0	6.67
Chino 1– "antidegradation" ++	280	5.0	6.67
Chino 2 – "antidegradation" ++	250	2.9	3.87
Chino 3 – "antidegradation" ++	260	3.5	4.67
Chino – East @	730	10.0	5.60
Chino – South @	680	4.2	13.33
Cucamonga "maximum benefit" ++	260[4]	5.0[4]	5.87
Cucamonga "antidegradation" ++	210	2.4	3.20
Lytle	240[4]	1.5	2.00
Rialto	230	2.0	2.67
San Timoteo "maximum benefit" ++	300[4]	5.0[4]	3.87
San Timoteo "antidegradation" ++	300	2.7	3.60
Yucaipa "maximum benefit" ++	330[4]	5.0	6.67
Yucaipa "antidegradation" ++	320	4.2	5.60
Arlington	980	10	13.33
Bedford **	--	--	--
Coldwater	380	1.5	2.00
Elsinore	480	1.0	1.33
Lee Lake**	--	--	--

[4] Based on ambient water quality.

Groundwater Management Zones	Water Quality Objective (mg/L)		
	TDS	TIN Limit for Reinjection	TIN Limit for Recharge/ Percolation Projects
Riverside – A	440[4]	6.2[4]	5.87
Riverside – B	290	7.6	10.13
Riverside – C	680	8.3	11.07
Riverside – D	810	10.0	13.33
Riverside – E	720	10.0	13.33
Riverside – F	580[4]	9.5	12.67
Temescal	770	10.0	13.33
Warm Springs**	-	-	-

Groundwater Management Zones	Water Quality Objective (mg/L)		
	TDS	TIN Limit for Reinjection	TIN Limit for Recharge/ Percolation Projects
SAN JACINTO RIVER BASIN			
Garner Valley*	300	2.0	2.66
Idyllwild Area**	--	--	--
Canyon	220[4]	2.5[4]	2.13
Hemet - South	730	4.1	5.47
Lakeview – Hemet North	520	1.8	2.40
Menifee	1020	2.8	3.73
Perris North	570	5.2[4]	6.27
Perris South	1260	2.5	3.33
San Jacinto – Lower	520	1.0	1.33
San Jacinto – Upper	320	1.4	1.87
LOWER SANTA ANA RIVER BASIN			
La Habra**	--	--	--

	Water Quality Objective (mg/L)		
Santiago **	--	--	--
Orange	580	3.4	4.53
Irvine	910	5.9	7.87

++ "Maximum benefit" objectives apply unless Regional Board determines that the maximum benefit commitments shown in Tables 5-8a, 5-9a and 5-10a are not being met; in that case, "antidegradation" objectives would apply (see discussion in Chapter 5 of the Basin Plan).

* Additional objectives for Bear Valley: Hardness 225 mg/l; Sodium 20 mg/l; Chloride 10 mg/l; Sulfate 20 mg/l.

** Numeric objectives not established; narrative objectives apply.

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LOWER SANTA ANA RIVER BASIN			
La Habra**	--	--	--

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California Regional Water Quality Control Board
Santa Ana Region

Monitoring and Reporting Program No. R8-2006-0005

GENERAL WASTE DISCHARGE REQUIREMENTS FOR THE DISCHARGE OF SALTS THROUGH INJECTION/PERCOLATION OF IMPORTED STATE PROJECT WATER, COLORADO RIVER WATER OR IMPORTED WELL WATER TO RECHARGE GROUNDWATER MANAGEMENT ZONES WITHIN THE SANTA ANA REGION

A. MONITORING REQUIREMENTS

1. All chemical and bacteriological analyses shall be conducted at a laboratory certified for such analyses by the California Department of Health Services Environmental Laboratory Accreditation Program (ELAP) or approved by the Executive Officer. A copy of the laboratory certification shall be submitted with the annual summary report.

2. All sampling and sample preservation shall be in accordance with the current edition of "*Standard Methods for the Examination of Water and Wastewater*" (American Public Health Association).

3. All analytical data shall be reported with method detection limits (MDLs)[1], and with identification of either minimum level (ML)[2] practical quantitation levels (PQLs)[3] or limits of quantitation (LOQs).

4. Laboratory data must quantify each constituent down to the Practical Quantitation Levels specified in Attachment "A" or to "Detection Limits for purposes of Reporting (DLRs)' by the California Department of Health Services. Any internal quality control data associated with the sample must be reported when requested by the Executive Officer. The Regional Board will reject the quantified laboratory data if quality control data is unavailable or unacceptable. All QA/QC analyses must be run on the same dates when samples were actually analyzed. The Discharger shall make available for inspection and/or submit the QA/QC documentation upon request by Regional Board staff. Proper chain of custody procedures must be followed and a copy of that documentation shall be furnished upon request by Regional Board staff.

TENTATIVE

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1 *MDL is the minimum concentration of a substance that can be measured and reported with 99 percent confidence that the analyte concentration is greater than zero, as defined in 40 CFR 136, Appendix B, revised as of May 14, 1999.*

2 *Minimum level is the concentration at which the entire analytical system must give a recognizable signal and acceptable point. The ML is the concentration in a sample that is equivalent to the concentration of the lowest calibration standard analyzed by a specific analytical procedure, assuming that all the method specified sample weights, volumes, and processing steps have been followed.*

3 *PQL is the lowest concentration of a substance that can be determined within ± 20 percent of the true concentration by 75 percent of the analytical laboratories tested in a performance evaluation study. Alternatively, if performance data are not available, the PQL is the method detection limit (MDL) x 5 for carcinogens and MDL x 10 for noncarcinogens.*

5. All monitoring instruments and devices used by the discharger to fulfill the prescribed monitoring program shall be properly maintained and calibrated as necessary to ensure their continued accuracy.

6. The flow measurement system shall be calibrated at least once per year or more frequently, to ensure continued accuracy.

7. Samples and measurements taken for the purpose of monitoring shall be representative of the monitored activity. Influent samples shall be taken at each point of inflow to the treatment system and shall be representative of the influent to the treatment system. Effluent samples shall be taken downstream of the last addition of waste to the treatment or discharge works where a representative sample may be obtained prior to mixing with the receiving waters.

8. Whenever the discharger monitors any pollutant more frequently than is required by this Order, the results of this monitoring shall be included in the calculation and reporting of the data submitted in the discharge monitoring report specified by the Executive Officer.

9. The discharger may request a reduction in the constituents to be monitored and/or a reduction in monitoring frequency for a specific constituent(s) subject to the approval of the Executive Officer.

10. The discharger shall assure that records of all monitoring information are maintained and accessible for a period of at least five years from the date of the sample, report, or application. This period of retention shall be extended during the course of any unresolved litigation regarding this discharge or by the request of the Board at any time. Records of monitoring information shall include:

    a. The date, exact place, and time of sampling or measurements;
    b. The individual(s) who performed the sampling, and/or measurements;
    c. The date(s) analyses were performed;
    d. The individual(s) who performed the analyses;
    e. The analytical techniques or methods used;
    f. All sampling and analytical results;
    g. All monitoring equipment calibration and maintenance records;
    h. All original strip charts from continuous monitoring devices;
    i. All data used to complete the application for this Order; and,
    j. Copies of all reports required by this Order.

11. Unless otherwise specified, discharge flows shall be reported in terms of daily average discharge flows. The results of all monitoring required by this Order shall be reported to the Board, and shall be submitted in such a format as to allow direct comparison with the limitations and requirements of this Order.

12. The discharger shall deliver a copy of each monitoring report in the appropriate format to:

California Regional Water Quality Control Board
Santa Ana Region
3737 Main Street, Suite 500
Riverside, CA 92501-3348

13. A "grab" sample is defined as any individual sample collected in less than 15 minutes.

14. Daily samples shall be collected on each day of the week.

15. Weekly samples shall be collected on a representative day of each week.

16. Monthly samples shall be collected on a representative day of the month.

17. Annual samples shall be collected by the 10th working day of the following months:

Year	Annual Sampling Month
2006-2010	June, September, December, March, respectively
2011-2014	February, May, August, November, respectively
2015-2018	April, July, October, January, respectively

B. MONITORING OF STATE PROJECT WATER/COLORADO RIVER WATER/OTHER IMPORTED WATER FOR RECHARGE

1. A sampling station shall be established for each point of recharge and shall be located where representative samples of the water for recharge can be obtained. The following shall constitute the recharge water monitoring program:

Table I			
Chemical	***Units***	***Type of Sample***	***Minimum Frequency of Sampling and Analysis***
Total Water Flow	*Mgd*	Flow meter/totalizer	Continuous
Total Nitrogen[4]	*mg/L*	Grab[5]	Quarterly

[4] *Total Nitrogen is defined as the sum of nitrate, nitrite, ammonia, and organic nitrogen concentrations, expressed as nitrogen.*

[5] *Grab sample is an individual sample collected in a short period of time not exceeding 15 minutes. Grab samples shall be collected during normal peak loading conditions for the parameter of interest, which may or may not be during hydraulic peaks.*

Table I			
Chemical	***Units***	***Type of Sample***	***Minimum Frequency of Sampling and Analysis***
Nitrate Nitrogen	*mg/L*	Grab[6]	Quarterly
Total Inorganic Nitrogen	"	"	"
Total Organic Carbon	"	"	"
Total Dissolved Solids	"	"	"
1-4 Dioxane	*µg/L*		"
Total Trihalomethanes (TTHM) [7]	"	"	"
N-Nitrosodimethylamine (NDMA)	"	"	"
Methyl-tert-butyl ether (MTBE)	"	"	"
Perchlorate	"	"	"
Inorganic Chemical			
Aluminum	*µg/L*	Grab	Annually
Antimony	"	"	"
Arsenic	"	"	"
Asbestos	*MFL*	"	"
Barium	*µg/L*	Grab	"
Beryllium	"	"	"
Cadmium	"	"	"
Chromium	"	"	"
Cyanide	"	"	"
Fluoride	"	"	"
Mercury	"	"	"
Nickel	"	"	"
Selenium	"	"	"
Thallium	*µg/L*	Grab	"
Volatile Organic Chemicals (VOC)			
Benzene	*µg/L*	Grab	Annually
Carbon Tetrachloride	"	"	"
1,2-Dichlorobenzene	"	"	"
1,4-Dichlorobenzene	"	"	"
1,1-Dichloroethane	"	"	"
1,2-Dichloroethane	"	"	"
1,1-Dichloroethylene	*µg/L*	Grab	Annually
Cis-1,2-Dichloroethylene	"	"	"
trans-1,2-Dichloroethylene	"	"	"
Dichloromethane	"	"	"
1,2-Dichloropropane	"	"	"
1,3-Dichloropropene	"	"	"

[6] *Grab sample is an individual sample collected in a short period of time not exceeding 15 minutes. Grab samples shall be collected during normal peak loading conditions for the parameter of interest, which may or may not be during hydraulic peaks.*

[7] *Sum of bromodichloromethane, dibromochloromethane, bromoform, and chloroform.*

Table I			
Chemical	***Units***	***Type of Sample***	***Minimum Frequency of Sampling and Analysis***
Ethylbenzene	"	"	"
Monochlorobenzene	"	"	"
Styrene	"	"	"
1,1,2,2-Tetrachloroethane	"	"	"
Tetrachloroethylene	"	"	"
Toluene	"	"	"
1,2,4-Trichlorobenzene	"	"	"
1,1,1Trichloroethane	"	"	"
1,1,2-Trichloroethane	"	"	"
Trichloroethylene	"	"	"
Trichlorofluoromethane	"	"	"
1,1,2-Trichloro-1,2,2-Trifluoroethane	"	"	"
Vinyl Chloride	"	"	"
Xylenes[8]	"	Grab	Annually
Non-Volatile Synthetic Organic Chemicals (SOCs)			
Alachlor	*µg/L*	Grab	Annually
Atrazine	"	"	"
Bentazon	"	"	"
Benzo(a)pyrene	"	"	"
Carbofuran	"	"	"
Chlordane	"	"	"
2,4-D	"	"	"
Dalapon	"	"	"
Dibromochloropropane (DBCP)	"	"	"
Di(2-ethylhexyl)adipate	"	"	"
Di(2-ethylhexyl)phthalate	"	"	"
Dinoseb	"	"	"
Diquat	"	"	"
Endothall	"	"	"
Endrin	"	"	"
Ethylene Dibromide (EDB)	"	"	"
Glyphosate	"	"	"
Heptachlor	"	"	"
Heptachlor Epoxide	"	"	"
Hexachlorobenzene	*µg/L*	Grab	Annually
Hexachlorocyclopentadiene	"	"	"
Lindane	"	"	"
Methoxychlor	"	"	"
Molinate	"	"	"
Oxamyl	"	"	"

[8] *Limit is for either a single isomer or the sum of the isomers.*

Table I			
Chemical	***Units***	***Type of Sample***	***Minimum Frequency of Sampling and Analysis***
Pentachlorophenol	"	"	"
Picloram	"	"	"
Polychlorinated Biphenyls	"	"	"
Simazine	"	"	"
Thiobencarb	"	"	"
Toxaphene	"	"	"
2,3,7,8-TCDD (Dioxin)	"	"	"
2,4,5-TP (Silvex)	"	"	"
Disinfection By-products			
	µg/L	Grab	Annually
Total Haloacetic acids (five) (HAA5)[9]	"	"	"
Bromate	"	"	"
Chlorite	"	"	"
Notification Levels			
Copper	*µg/L*	Grab	Annually
Lead	"	"	"
Radionuclides			
Combined Radium-226 and Radium-228	*pCi/l*	Grab	Annually
Gross Alpha particle activity (including Radium-226 but excluding Radon and Uranium)	*pCi/l*	Grab	"
Tritium	"	"	"
Strontium-90	"	"	"
Gross Beta particle activity	"	"	"
Uranium	*pCi/l*	Grab	"

[9] *Sum of monochloroacetic acid, dichloroacetic acid, trichloroacetic acid, monobromoacetic acid, and dibromoacetic acid),*

2. The monitoring frequency for those pollutants that are detected during the required quarterly monitoring at a concentration greater than those concentrations shown in the Table below, shall be accelerated to monthly. To return to the monitoring frequency specified, the discharger shall request and receive approval from the Regional Water Board's Executive Officer or designee. If the detected concentrations are persistent and considerable, the Discharger shall implement measures to reduce discharges of such constituent(s) into the ground. The Discharger shall submit for approval by the Regional Board Executive Officer of the measures that will be implemented to reduce discharges of such constituents.

Parameter	Concentration (ug/L)
1-4 Dioxane	3[10]
N-Nitrosodimethylamine (NDMA)	0.01[10]
Perchlorate	6[10]
Methyl-tert-butyl ether (MTBE)	13[11]
Total Trihalomethanes (THM)	100[11]

C. MONITORING OF DIVERTED STORMWATER FOR RECHARGE:

1. A sampling station shall be established for each point of recharge and shall be located where representative samples of the water for recharge can be obtained. The following shall constitute the recharge water monitoring program:

Table II			
Chemical	***Units***	***Type of Sample***	***Minimum Frequency of Sampling and Analysis***
Total Water Flow	*mgd*	Flow meter/totalizer	Continuous
Total Nitrogen[12]	*mg/L*	Grab[13]	Quarterly
Nitrate Nitrogen	"	"	"
Total Inorganic Nitrogen	"	"	"
Total Organic Carbon	"	"	"
Total Dissolved Solids	"	"	"
1-4 Dioxane	*µg/L*	"	"
Total Trihalomethanes (TTHM) [14]	"	"	"
N-Nitrosodimethylamine (NDMA)	"	"	"

[10] *Based on CDHS' notification Level*
[11] *Based on CDHS' MCL*
[12] *Total Nitrogen is defined as the sum of nitrate, nitrite, ammonia, and organic nitrogen concentrations, expressed as nitrogen.*
[13] *Grab sample is an individual sample collected in a short period of time not exceeding 15 minutes. Grab samples shall be collected during normal peak loading conditions for the parameter of interest, which may or may not be during hydraulic peaks.*
[14] *Sum of bromodichloromethane, dibromochloromethane, bromoform, and chloroform.*

Table II			
Chemical	***Units***	***Type of Sample***	***Minimum Frequency of Sampling and Analysis***
Methyl-tert-butyl ether (MTBE)	*µg/L*	Grab[13]	Quarterly
Perchlorate	"	"	"

D. REPORTING:

1. The results of the above analyses shall be reported to the Regional Board within 24 hours of finding any discharge that is in violation of the discharge specifications.

2. Monitoring reports shall be submitted by the 30th day of each month and shall include:

   a. The total daily volume of recharged/percolated or re-injected water (State Project water, Colorado River Water, imported well water, and diverted stormwater), and

   b. The results of all chemical analyses for the previous month, and annual samples whenever applicable,

   c. A summary of the month's activities.

3. If no discharge occurs during the previous monitoring period, a letter to that effect shall be submitted in lieu of a monitoring report.

4. All reports shall be arranged in a tabular format to clearly show compliance or noncompliance with each discharge specification.

5. For every item where the requirements are not met, the discharger shall submit a statement of the actions undertaken or proposed which will bring the discharge into full compliance with requirements at the earliest time and submit a timetable for correction.

6. Upon completion of the project, the discharger shall notify the Executive Officer of the Regional Board in writing about cessation of the discharge and request for a rescission of this Order.

All reports shall be signed by a responsible officer or duly authorized representative of the discharger and shall be submitted under penalty of perjury.

Ordered by_____

Gerard J. Thibeault
Executive Officer

July 14, 2006

PRACTICAL QUANTITATION LEVELS FOR COMPLIANCE DETERMINATION

	Constituent	PQL µg/l	Analysis Method
1	Arsenic	7.5	GF/AA
2	Barium	20.0	ICP/GFAA
3	Cadmium	15.0	ICP
4	Chromium (VI)	15.0	ICP
5	Cobalt	10.0	GF/AA
6	Copper	19.0	GF/ICP
7	Cyanide	50.0	335.2/335.3
8	Iron	100.0	ICP
9	Lead	26.0	GF/AA
10	Manganese	20.0	ICP
11	Mercury	0.50	CV/AA
12	Nickel	50.0	ICP
13	Selenium	2.0	EPA Method 1638, 1640 or 7742
14	Silver	16.0	ICP
15	Zinc	20.0	ICP
16	1,2 - Dichlorobenzene	5.0	601/602/624
17	1,3 - Dichlorobenzene	5.0	601
18	1,4 - Dichlorobenzene	5.0	601
18	2,4 - Dichlorophenol	10.0	604/625
20	4 - Chloro -3- methylphenol	10.0	604/625
21	Aldrin	0.04	608
22	Benzene	1.0	602/624
23	Chlordane	0.30	608
24	Chloroform	5.0	601/624
25	DDT	0.10	608
26	Dichloromethane	5.0	601/624
27	Dieldrin	0.10	608
28	Fluorantene	10.0	610/625
29	Endosulfan	0.50	608
30	Endrin	0.10	608
31	Halomethanes	5.0	601/624
32	Heptachlor	0.03	608
33	Hepthachlor Epoxide	0.05	608
34	Hexachlorobenzene	10.0	625
35	Hexachlorocyclohexane		
	Alpha	0.03	608
	Beta	0.03	608
	Gamma	0.03	608
36	PAH's	10.0	610/625
37	PCB	1.0	608
38	Pentachlorophenol	10.0	604/625
39	Phenol	10.0	604/625
40	TCDD Equivalent	0.05	8280
41	Toluene	1.0	602/625
42	Toxaphene	2.0	608
43	Tributyltin	0.02	GC
44	2,4,6-Trichlorophenol	10.0	604/625

EPA PRIORITY POLLUTANT LIST

Metals

1.	Antimony
2.	Arsenic
3.	Beryllium
4.	Cadmium
5a.	Chromium (III)
5b.	Chromium (VI)
6.	Copper
7.	Lead
8.	Mercury
9.	Nickel
10.	Selenium
11.	Silver
12.	Thallium
13.	Zinc

Miscellaneous

14.	Cyanide
15.	Asbestos (not required unless requested)
16.	2,3,7,8-Tetrachlorodibenzo-P-Dioxin (TCDD)

Volatile Organics

17.	Acrolein
18.	Acrylonitrile
19.	Benzene
20.	Bromoform
21.	Carbon Tetrachloride
22.	Chlorobenzene
23.	Chlorodibromomethane
24.	Chloroethane
25.	2-Chloroethyl Vinyl Ether
26.	Chloroform
27.	Dichlorobromomethane
28.	1,1-Dichloroethane
29.	1,2-Dichloroethane
30.	1,1-Dichloroethylene
31.	1,2-Dichloropropane
32.	1,3-Dichloropropylene
33.	Ethylbenzene
34.	Methyl Bromide
35.	Methyl Chloride
36.	Methylene Chloride
37.	1,1,2,2-Tetrachloroethane
38.	Tetrachloroethylene
39.	Toluene
40.	1,2-Trans-Dichloroethylene
41.	1,1,1-Trichloroethane
42.	1,1,2-Trichloroethane
43.	Trichloroethylene
44.	Vinyl Chloride

Acid Extractibles

45.	2-Chlorophenol
46.	2,4-Dichlorophenol
47.	2,4-Dimethylphenol
48.	2-Methyl-4,6-Dinitrophenol
49.	2,4-Dinitrophenol
50.	2-Nitrophenol
51.	4-Nitrophenol
52.	3-Methyl-4-Chlorophenol
53.	Pentachlorophenol
54.	Phenol
55.	2, 4, 6 – Trichlorophenol

Base/Neutral Extractibles

56.	Acenaphthene
57.	Acenaphthylene
58.	Anthracene
59.	Benzidine
60.	Benzo (a) Anthracene
61.	Benzo (a) Pyrene
62.	Benzo (b) Fluoranthene
63.	Benzo (g,h,i) Perylene
64.	Benzo (k) Fluoranthene
65.	Bis (2-Chloroethoxy) Methane
66.	Bis (2-Chloroethyl) Ether
67.	Bis (2-Chloroisopropyl) Ether
68.	Bis (2-Ethylhexyl) Phthalate
69.	4-Bromophenyl Phenyl Ether
70.	Butylbenzyl Phthalate
71.	2-Chloronaphthalene
72.	4-Chlorophenyl Phenyl Ether
73.	Chrysene
74.	Dibenzo (a,h) Anthracene
75.	1,2-Dichlorobenzene
76.	1,3-Dichlorobenzene
77.	1,4-Dichlorobenzene
78.	3,3'-Dichlorobenzidine
79.	Diethyl Phthalate
80.	Dimethyl Phthalate
81.	Di-n-Butyl Phthalate
82.	2,4-Dinitrotoluene
83.	2-6-Dinitrotoluene
84.	Di-n-Octyl Phthalate
85.	1,2-Dipenylhydrazine
86.	Fluoranthene
87.	Fluorene
88.	Hexachlorobenzene
89.	Hexachlorobutadiene
90.	Hexachlorocyclopentadiene

Base/Neutral Extractibles (continuation)

91.	Hexachloroethane
92.	Indeno (1,2,3-cd) Pyrene
93.	Isophorone
94.	Naphthalene
95.	Nitrobenzene
96.	N-Nitrosodimethylamine
97.	N-Nitrosodi-N-Propylamine
98.	N-Nitrosodiphenylamine
99.	Phenanthrene
100.	Pyrene
101.	1,2,4-Trichlorobenzene

Pesticides

102.	Aldrin
103.	Alpha BHC
104.	Beta BHC
105.	Delta BHC
106.	Gamma BHC
107.	Chlordane
108.	4, 4' - DDT
109.	4, 4' - DDE
110.	4, 4' - DDD
111.	Dieldrin
112.	Alpha Endosulfan
113.	Beta Endosulfan
114.	Endosulfan Sulfate
115.	Endrin
116.	Endrin Aldehyde
117.	Heptachlor
118.	Heptachlor Epoxide
119.	PCB 1016
120.	PCB 1221
121.	PCB 1232
122.	PCB 1242
123.	PCB 1248
124.	PCB 1254
125.	PCB 1260
126.	Toxaphene

California Regional Water Quality Control Board
Santa Ana Region

July 14, 2006

Staff Report

ITEM:

SUBJECT: General Waste Discharge Requirements for the discharge of salts through injection/percolation of imported State Project Water, Colorado River Water or imported well water to recharge groundwater management zones within the Santa Ana Region – Groundwater Replenishment Projects Order No. R8-2006-0005

I DISCUSSION:

Background

The Regional Water Board adopted a revised Water Quality Control Plan for the Santa Ana Region (hereinafter Basin Plan) that became effective on January 24, 1995. The Basin Plan designates beneficial uses, establishes water quality objectives, and contains implementation programs and policies to achieve those objectives for all waters in the Santa Ana Region addressed through the plan. More recently, the Basin Plan was amended significantly to incorporate revised boundaries for groundwater subbasins, now termed "management zones", new nitrate-nitrogen and TDS objectives for the new management zones, and new nitrogen and TDS management strategies applicable to both surface and ground waters. The Regional Water Board adopted the Basin Plan Amendment on January 22, 2004. The State Water Resources Control Board (State Water Board) and Office of Administrative Law (OAL) approved the Amendment on September 30, 2004 and December 23, 2004, respectively. The surface water standards provisions of the Amendment are awaiting approval by the U.S. Environmental Protection Agency but do not bear significantly on these proposed general waste discharge requirements. This Order implements provisions of the Amendment that are related to groundwater management zones.

The Nitrogen/TDS Basin Plan Amendment was the culmination of a multi-year, multi-million dollar ($3.5+M) effort sponsored by the N/TDS Task Force, with extensive participation by and close coordination with Regional Board staff. The Task Force included 22 water supply and wastewater management agencies and other stakeholders throughout the Region. The effort was initiated because of concerns that (1) the nitrate-nitrogen and TDS groundwater quality objectives specified in the Basin Plan had been established in a relatively short time in early (1970s) basin planning work for the Region and might not have benefited from a high level of scientific rigor, and (2) the established objectives would likely place significant restrictions on wastewater recycling, which was expected to be increasingly needed to meet the Region's rapidly growing demand for water supply.

The Task Force's recommendations for changes to the Basin Plan, including new groundwater management zones, new TDS and nitrate-nitrogen objectives for those zones and revised TDS and nitrogen management strategies, were the result of intensive, rigorous scientific evaluation of relevant water quality, geologic and hydrologic data. In addition, as described next, certain

members of the Task Force pursued evaluations and developed recommendations based on consideration of the requirements of the State's antidegradation policy (SWRCB Resolution No. 68-16), leading to the development of "Maximum Benefit" TDS and nitrate-nitrogen objectives and water resource management commitments for specific groundwater management zones.

Several agencies proposed that alternative TDS and/or nitrate-nitrogen water quality objectives less stringent than those developed by the Task Force based on historical water quality (the so-called "antidegradation" objectives) be adopted for specific groundwater management zones. The underlying intent of these proposals was to assure that the TDS and nitrate-nitrogen objectives for specific management zones were consistent with and would accommodate the water and wastewater resource management plans of the involved agencies, including the use of recycled water for groundwater recharge and reuse. Since the less stringent objectives would allow a lowering of water quality, the agencies were required to satisfy antidegradation requirements, that is, to demonstrate that their proposed objectives would protect beneficial uses, and that water quality consistent with maximum benefit to the people of the state would be maintained.

Appropriate beneficial use protection/maximum benefit demonstrations were made by the Chino Basin Watermaster/Inland Empire Utilities Agency, the Yucaipa Valley Water District and the City of Beaumont/San Timoteo Watershed Management Authority to justify alternative "maximum benefit" objectives for the Chino North, Cucamonga, Yucaipa, Beaumont and San Timoteo groundwater management zones. These "maximum benefit" proposals, which are described in detail in Chapter 5 – Implementation of the Amended Basin Plan, entail commitments by the agencies to implement specific projects and programs. While these agencies' efforts to develop these proposals indicate their strong interest to proceed with these commitments, unforeseen circumstances may impede or preclude it. To address this possibility, the Basin Plan Amendment included both the "antidegradation" and "maximum benefit" objectives for the subject groundwater management zones (See Table 4-1 of the amended Basin Plan, included in this general WDR as Attachment A). Chapter 5 of the amended Basin Plan specifies the requirements for implementation of these objectives. Provided that these agencies' commitments are met, then the agencies have demonstrated maximum benefit, and the "maximum benefit" objectives included in Table 4-1 of the amended Basin for these waters apply for regulatory purposes. However, if the Regional Board finds that these commitments are not being met and that "maximum benefit" is thus not demonstrated, then the "antidegradation" objectives for these waters will apply. Chapter 5 of the amended Basin Plan also describes the mitigation requirements that will apply should discharges based on "maximum benefit" objectives occur unsupported by the demonstration of "maximum benefit".

<u>Rationale for Issuance of the Proposed Waste Discharge Requirements</u>

Importation of State Project Water (SPW) and Colorado River Water (CRW) has long been a key part of the water supply plan within the Region. With the recent completion of new water conveyance systems, a number of agencies plan to increase recharge of groundwater management zones in the Santa Ana Region with these imported sources of supply when they are plentiful. In addition, water supply agencies are investigating the feasibility of importing or transferring groundwater pumped from one management zone for use/recharge in other areas of the Region. These agencies also plan to extract this stored water when potable water demand is high. These projects include those proposed by Elsinore Valley Municipal Water District for the Back Basin Groundwater Storage Project, Eastern Municipal Water District's Grant Avenue Recharge Project,

and the San Gorgonio Pass Water Agency's Brookside South Streambed Recharge Project. Other projects are in the planning stages.

To date, the Regional Board has not regulated groundwater recharge projects using imported SPW, CRW or well waters, even where the concentrations of nitrogen, TDS (or other) constituents exceeded relevant Basin Plan objectives. However, given the increased number and magnitude of the water recharge projects being contemplated, and in view of the extensive commitments that have been and will be made by dischargers and other stakeholders in the Region to develop and implement the new TDS and nitrate-nitrogen objectives, it is appropriate and in fact legally required to assure that those projects are consistent with the objectives. Otherwise, Basin Plan objectives could be violated and the TDS and nitrate-nitrogen management activities undertaken by certain stakeholders could be compromised by the recharge activities of others. To assure that imported water groundwater recharge projects do not cause or contribute to violations of applicable water quality standards, particularly the established groundwater objectives for Total Dissolved Solids (TDS) and nitrate-nitrogen, staff recommends the adoption of Order No. R8-2006-0005.

The proposed Order requires prospective dischargers to file: (a) a Notice of Intent (NOI) to comply with the terms and conditions of these General Waste Discharge Requirements (WDRs) or a report of waste discharge (ROWD); (b) the applicable first annual fee as required by Title 23, CCR, Section 2200; (c) a project map; (d) evidence of California Environmental Quality Act (CEQA) compliance; and (e) a monitoring plan. In addition, for projects that would affect groundwater management zones for which both maximum benefit and antidegradation TDS and nitrate-nitrogen objectives have been established in the Basin Plan ("maximum benefit management zones", the proposed Order requires dischargers to file with the NOI (or ROWD) documentation that demonstrates that the project is consistent with the applicable maximum benefit programs and commitments identified in the Basin Plan. This requirement may be satisfied by the submittal of a letter from the agency (-ies) responsible for the maximum benefit programs for the affected groundwater management zones that confirms that the proposed project(s) is consistent with the maximum benefit program.

Upon review of the NOI (or ROWD) by Regional Board staff, a determination will be made as to whether or not coverage under these General WDRs is appropriate. The Regional Board's Executive Officer would issue a discharge authorization letter to the discharger after staff has determined that proposed discharges can be covered under these General WDRs. If proposed discharges cannot be regulated under these general WDRs, the discharger will be notified by a letter from the Regional Board's Executive Officer or designee and alternative discharge requirements will be drafted. Where a proposed project that would affect groundwater maximum benefit management zones is not consistent with the maximum benefit program, Board staff will recommend waste discharge requirements that require compliance with the antidegradation TDS and nitrate-nitrogen water quality objectives.

II. REGULATORY BASIS FOR WASTE DISCHARGE REQUIREMENTS

This Order includes requirements that implement the Water Quality Control Plan (Basin Plan), which was adopted by the Regional Board on March 11, 1994. The Basin Plan was approved by the Office of Administrative Law and became effective on January 24, 1995. On January 22, 2004, the Regional Water Board adopted Resolution No. R8-2004-0001, amending the Basin Plan to incorporate revised boundaries for groundwater subbasins, now termed "management

zones", new nitrate-nitrogen and TDS objectives for the new management zones, and new nitrogen and TDS management strategies applicable to both surface and ground waters. The State Water Resources Control Board and Office of Administrative Law (OAL) approved the N/TDS Amendment on September 30, 2004 and December 23, 2004, respectively. This Plan specifies water quality objectives and beneficial uses for the waters of the Santa Ana Region.

The existing and potential beneficial uses of underlying groundwater management zones in the Santa Ana Region include municipal and domestic supply, agricultural supply, industrial process supply, and industrial service supply.

The proposed Order specifies numeric and narrative limits for the constituents expected to be present in the discharges. The specified limits are consistent with the Basin Plan objectives and other state requirements.

In some instances, the TDS or nitrogen quality of the imported water proposed for recharge may exceed the TDS or nitrate-nitrogen water quality objectives for the specific groundwater management zone where the groundwater recharge is to occur. In these circumstances, project proponents have proposed to divert storm runoff into the recharge basins to assure that recharge of the combined flows meets the TDS and/or TN objectives of the groundwater management zone. This Order allows proponents to flow weight the TDS or TN quality of surface water and storm water for recharge.

Monitoring is the primary means of ensuring that waste discharge requirements are met. It is also the basis for enforcement actions against dischargers who are in violation of the waste discharge requirements issued by the Regional Board. All dischargers enrolled under this general permit will be required to conduct monitoring in accordance with a monitoring program issued by the Executive Officer. Each monitoring and reporting program will be customized for each enrollee based on the characteristics of the water to be used for recharge. The typical required constituents and frequency of analyses are tabulated in the self-monitoring program attached to this general permit as "Typical Monitoring and Reporting Program (MR&P) No. R8-2006-0005." This monitoring and reporting program will be revised as appropriate for each discharger. An increase of the parameters or frequency of monitoring will be required if monitoring data show the presence of specific pollutants of concern that are not limited in this Order. This Order may be reopened to include effluent limitations for such constituents. A reduction of the parameters or frequency of monitoring may be implemented with prior approval of the Executive Officer when monitoring data demonstrate that such reduction is warranted.

The Order also requires the discharger to monitor for Total Trihalomethanes (THM)[1], 1-4 Dioxane, Methyl-tert-butyl ether (MTBE), Perchlorate and N-Nitrosodimethylamine (NDMA) on a quarterly basis. These constituents have been determined to be present in imported water at low concentrations. If any of these constituents are detected at levels above the concentrations shown in the Table below, the discharger will be required to accelerate monitoring for that specific constituent to monthly. If the detected concentrations are persistent and considerable[2],

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1 Sum of bromodichlormethane, dibromochloromethane, bromoform and chloroform

2 Persistent and considerable is defined as being detected at levels 10 times the concentration shown in the table for three consecutive months during the accelerated monitoring.

the discharger may be required to implement measures to reduce discharges of such constituent(s) into the ground and apply for an individual permit.

Parameter	Concentration (ug/L)
1-4 Dioxane	3[3]
N-Nitrosodimethylamine (NDMA)	0.01[3]
Perchlorate	6[3]
Methyl-tert-butyl ether (MTBE)	13[4]
Total Trihalomethanes (THM)	100[4]

This Order requires the discharger to conduct an annual monitoring of constituents with primary contaminant levels (MCLs) and secondary MCLs. If any of these constituents are detected in the annual scan at levels above the MCLs, the discharger is required to conduct accelerated monitoring for that specific constituent to determine whether such parameters are persistent and considerable and should be limited in this Order.

The proposed discharge limitations and monitoring and reporting program should be adequate to protect the beneficial uses of the waters in the area.

RECOMMENDATION:

Adopted Order No. R8-2006-0005 as presented.

Comments were solicited from the following:

State Water Resources Control Board, Office of the Chief Counsel – Jorge Leon
State Water Resources Control Board, Division of Water Quality – Jim Maughan
State Department of Water Resources - Glendale
State Department of Health Services, Santa Ana –
State Department of Health Services, San Bernardino – Sean McCarthy
State Department of Health Services, San Diego – Steven Williams
Orange County Public Facilities and Resources Department - Chris Crompton
Orange County Health Care Agency - Seth Daugherty
Orange County Water District – Nira Yamachika
Riverside County Environmental Health Department - Sandy Bonchek
San Bernardino County Department of Public Works, Environmental Management Division – Naresh Varma
San Bernardino County Environmental Health Department – Daniel Avera
South Coast Air Quality Management District - Barry Wallerstein
Orange County Coastkeeper – Garry Brown
Lawyers for Clean Water C/c San Francisco Baykeeper
Elsinore Valley Municipal Water District
Yucaipa Valley Water District
City of Beaumont – Alan Kapanicas
Inland Empire Utilities Agency – Patrick O. Sheilds

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[3] Based on CDHS' notification Level
[4] Based on CDHS' MCL

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San Gorgonio Pass Water Agency
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