

Eng.

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SAN DIEGO REGION

ADDENDUM NO. 1 TO ORDER NO. 92-04
AN ADDENDUM MODIFYING WASTE DISCHARGE REQUIREMENTS
FOR THE
RANCHO SANTA FE COMMUNITY SERVICES DISTRICT
RANCHO SANTA FE WATER POLLUTION CONTROL FACILITY
SAN DIEGO COUNTY

The California Regional Water Quality Board, San Diego Region (hereinafter Regional Board), finds that:

1. On May 18, 1992, the Regional Board adopted Order No. 92-04, **Waste Discharge Requirements for the Rancho Santa Fe Community Services District, Rancho Santa Fe Water Pollution Control Facility, San Diego County.** Order No. 92-04 established requirements for the discharge of up to 0.45 million gallons per day of treated wastewater by spray irrigation of Rancho Santa Fe Golf Course.
2. Order No. 92-04 states that Rancho Santa Fe Water Pollution Control Facility will use a chlorination system to achieve conformance with the requirements for disinfection specified by Chapter 3, Division 4, Title 22 of California Code of Regulations.
3. On August 20, 1993, Rancho Santa Fe CSD submitted a complete report of waste discharge (RWD). This RWD describes the discharger's proposal to use an ultraviolet (UV) system instead of a chlorination system for disinfection of the wastewater.
4. The discharger reports that the UV disinfection system will consist of four racks of light, four intensity meters, one transmittance meter, and a microprocessor. The intensity meter measures lamp power in microwatts per centimeter square. The transmittance meter measures the water's ability to transmit light in comparison to distilled water. The microprocessor calculates dose of UV energy based on the measured intensity, light transmissibility, and the detention time of treated wastewater in the channel. All system information is stored in a microprocessor.
5. The RWD indicates that the UV disinfection system uses ultraviolet light to alter the genetic (DNA) material in cells so that bacteria, viruses, molds, algae and other micro-organism no longer reproduce. Microbiologists have determined the effective dose of UV energy, (expressed in microwatt-seconds/cm²), needed to destroy pathogens as well as indicator organism found in wastewater to be 100mWs/cm².

6. By letter dated July 23, 1993, Department of Health Services recommends that the use of UV disinfection process be approved subject to the following conditions:
 - a. The tertiary process shall be operated at a constant flow of 0.25 MGD.
 - b. The discharger shall provide continuous, reliable monitoring of the effluent turbidity.
 - c. The discharger shall provide continuous, reliable monitoring of the fluid transmittance, and UV intensity.
 - d. The effluent turbidity shall not exceed 2.0 NTU at any time. Treated waste water which does not meet this standard shall be diverted to an alternate disposal facility.
 - e. The UV dose shall not remain below 140 mWs/cm² for more than 24 hours.
 - f. A minimum UV dose of 100mWs/cm² shall be provided at all times. When the treatment process does not provide the minimum dose, treated waste water shall be diverted to an alternate disposal facility.
 - g. The effluent coliform levels shall be less than or equal to 2.2 MPN/100 ml based on average of the last seven days and shall be less than 23 MPN/100ml at all times.
 - h. Results of the tracer study shall be submitted prior to placing the UV system into service.
 - i. Prior to using the plant to provide reclaimed water, the discharger shall submit an operations plan for the treatment plant.
7. By letter dated September 28, 1993, Dudek & Associate, Inc. on behalf of the Rancho Santa Fe CSD indicates that the proposed UV disinfection system will comply with all of the conditions in Finding 6 above. This letter further states that the Rancho Santa Fe WPCF will have fixed-speed, positive displacement pumps to achieve a constant flow rate of 0.25 MGD. The proposed project is also set up to automatically divert flow from the reclamation system to the percolation ponds in the event of high turbidity or low UV energy dose.

8. On November 9, 1993, Rancho Santa Fe CSD approved a Negative Declaration for the use of UV system instead of a chlorination system for disinfection of the wastewater. Rancho Santa Fe CSD determined that the use of UV system as a disinfection process will not have a significant effect on water quality.
9. The Regional Board has notified the discharger and all known interested parties of the intent to prescribe waste discharge requirements for the proposed discharge.
10. The Regional Board in a public meeting heard and considered all comments pertaining to the proposed discharge.

IT IS HEREBY ORDERED THAT Order No. 92-04 is modified as follows:

1. Effluent limitation of Coliform specified in Discharge Specification B.1.(a) shall be less than or equal to 2.2 MPN/100 ml based on average of the last seven days and shall be less than 23 MPN/100ml at all times.
2. Provision C.15 is added to Order No. 92-04:

C.15 The discharger shall comply with the following conditions:

- a. The tertiary process shall be operated at a constant flow of 0.25 MGD.
- b. The discharger shall provide continuous, reliable monitoring of the effluent turbidity.
- c. The discharger shall provide continuous, reliable monitoring of the fluid transmittance, and UV intensity.
- d. The effluent turbidity shall not exceed 2.0 NTU at any time. Treated waste water which does not meet this standard shall be diverted to an alternate disposal facility.
- e. The UV dose shall not remain below 140 mWs/cm² for more than 24 hours.
- f. A minimum UV dose of 100mWs/cm² shall be provided at all times. When the treatment process does not provide the minimum dose, treated waste water shall be diverted to an alternate disposal facility.

- g. Results of the tracer study shall be submitted prior to placing the UV system into service.
- h. Prior to using the plant to provide reclaimed water, the discharger shall submit an operations plan for the treatment plant.

3. Effluent Monitoring B is replaced with the following:

B. EFFLUENT MONITORING

The following shall constitute the effluent monitoring program for Rancho Santa Fe WPCF:

Determination	Unit	Sample Type	Sampling Frequency	Reporting Frequency
Flowrate*	MGD	Continuous	Continuous	Monthly
Biochemical Oxygen Demand (5-Day @ 20°C)	mg/L	Composite	Weekly	Monthly
Total Suspended Solids	mg/L	Composite	Weekly	Monthly
Volatile Suspended Solids	mg/L	Composite	Weekly	Monthly
pH	Unit	Composite	Weekly	Monthly
Total Dissolved Solids	mg/L	Composite	Quarterly	Quarterly
Chloride	mg/L	Composite	Quarterly	Quarterly
Percent Sodium	%	Composite	Quarterly	Quarterly
Sulfate	mg/L	Composite	Quarterly	Quarterly
Nitrate (NO ₃)	mg/L	Composite	Quarterly	Quarterly
Iron	mg/L	Composite	Quarterly	Quarterly
Manganese	mg/L	Composite	Quarterly	Quarterly
Methylene Blue Active Substances	mg/L	Composite	Quarterly	Quarterly
Boron	mg/L	Composite	Quarterly	Quarterly
Fluoride	mg/L	Composite	Quarterly	Quarterly
Aluminum	mg/L	Composite	Annual	Annual
Arsenic	mg/L	Composite	Annual	Annual
Barium	mg/L	Composite	Annual	Annual
Cadmium	mg/L	Composite	Annual	Annual
Chromium	mg/L	Composite	Annual	Annual
Copper	mg/L	Composite	Annual	Annual
Lead	mg/L	Composite	Annual	Annual
Mercury	mg/L	Composite	Annual	Annual
Selenium	mg/L	Composite	Annual	Annual
Silver	mg/L	Composite	Annual	Annual
Zinc	mg/L	Composite	Annual	Annual

Determination	Unit	Sample Type	Sampling Frequency	Reporting Frequency
Coliform	MPN/100 ml	Grab	**	Monthly
Turbidity	NTU	Continuous	**	Monthly

- * Report both the flowrate for the treatment plant and flowrate for UV disinfection system.
- ** Sampling and analysis shall, as a minimum, be conducted in accordance with all applicable provisions of California Code of Regulations, Title 22, Division 4, Chapter 3, Article 6 in its present form or as it may be amended.

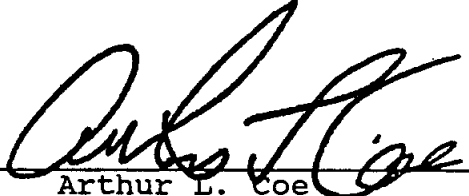
Note: MGD = million gallons per day
mg/L = milligrams per liter

3. The following Section G will be added to the Monitoring and Reporting Program No. 92-04.

G. UV disinfection system.

Every month, the discharger shall submit a report certifying that the UV disinfection system has been in compliance with all the provisions described in Provision C.15 of this Addendum. If there is any noncompliance during the reporting period, the discharger shall discuss the steps taken to correct the noncompliance.

I, Arthur L. Coe, Executive Officer, do hereby certify the foregoing is a full, true, and correct copy of Addendum No. 1 to Order No. 92-04 adopted by the California Regional Water Quality Control Board, San Diego Region, on November 15, 1993.



Arthur L. Coe
Executive Officer

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SAN DIEGO REGION

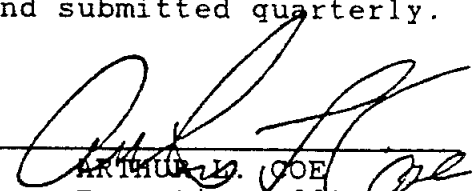
TECHNICAL CHANGE ORDER NO. T-1
FOR
MONITORING AND REPORTING PROGRAM NO. 92-04
RANCHO SANTA FE COMMUNITY SERVICES DISTRICT
RANCHO SANTA FE WATER POLLUTION CONTROL FACILITY
SAN DIEGO COUNTY

It is hereby ordered that Section E. SEWAGE SOLIDS be replaced with the following:

E. SEWAGE SOLIDS

A log of the type, quantity, location and manner of disposal of solids removed in the course of sewage treatment shall be maintained and submitted quarterly.

Ordered by


ARTHUR L. COE
Executive Officer

Date: August 23, 1992

File: 01-0177.01 & 01-0177.02

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SAN DIEGO REGION

ORDER NO. 92-04

WASTE DISCHARGE REQUIREMENTS
FOR THE
RANCHO SANTA FE COMMUNITY SERVICES DISTRICT
RANCHO SANTA FE WATER POLLUTION CONTROL FACILITY
SAN DIEGO COUNTY

The California Regional Water Quality Board, San Diego Region (hereinafter Regional Board), finds that:

1. On May 4, 1987, this Regional Board adopted Order No. 87-56, **Waste Discharge Requirements for the Rancho Santa Fe Community Services District, Rancho Santa Fe Water Pollution Control Facility, San Diego County.** Order No. 87-56 establishes requirements for the disposal of up to 0.28 million gallons per day (MGD) of treated wastewater to percolation beds.
2. On January 23, 1989, this Regional Board adopted Addendum No. 1 to Order No. 87-56, **An Addendum reflecting a treatment facility expansion and an increase in the authorized flowrate for the Rancho Santa Fe Community Services District, Rancho Santa Fe Water Pollution Control Facility, San Diego County.** Addendum No. 1 to Order No. 87-56 authorizes Rancho Santa Fe Community Service District (CSD) to dispose up to 0.45 MGD of treated wastewater to percolation beds.
3. On August 5, 1991, Rancho Santa Fe CSD submitted an incomplete Report of Waste Discharge (RWD) entitled "Rancho Santa Fe Water Pollution Control Facility Application for Waiver to Discharge Requirements" prepared by Dudek & Associates, Inc. This RWD requests to use treated wastewater from Rancho Santa Fe Water Pollution Control Facility (WPCF) to irrigate the Rancho Santa Fe Golf Course. After receipt of additional information the complete RWD was accepted on November 27, 1991.
4. The existing Rancho Santa Fe WPCF includes screening, comminution, and an activated sludge process consisting of extended aeration and secondary clarification. Sludge from secondary clarifiers will go through a belt filter press before it is discharged to concrete lined sludge drying beds. Dried sludge is transported to a sanitary landfill for disposal.
5. The RWD indicates that the discharger will install a static mixer and a dual chemical feeder for the coagulation system; concrete tanks equipped with slow speed mixers for flocculation; and a chlorination facility. Wastewater from Rancho Santa Fe WPCF will be treated to the most restrictive Title 22 level for landscape irrigation, and the percolation beds will be used as a fail-safe mechanism to dispose the treated wastewater when the

Rancho Santa Fe Golf Course can not be irrigated. Treated wastewater used for Rancho Santa Fe Golf Course irrigation will be pumped to and stored in a golf course storage pond. The percolation beds and the Rancho Santa Fe Golf Course are not upgradient of any municipal supply reservoir.

6. The monitoring reports submitted by the discharger in response to Order No. 87-56 indicate that during 1990 and 1991, the concentration of total dissolve solids (TDS) of water supply and of Rancho Santa Fe WPCF effluent are as follows:

		Total dissolve solids		
		Water supply	RSFWPCF effluent	Increment
Dec	1989	619 mg/l	1054 mg/l	435 mg/l
March	1990	587 mg/l	1256 mg/l	669 mg/l
June	1990	551 mg/l	1081 mg/l	530 mg/l
Sept	1990	593 mg/l	1062 mg/l	469 mg/l
Dec	1990	577 mg/l	1017 mg/l	440 mg/l
March	1991	593 mg/l	1152 mg/l	559 mg/l
June	1991	853 mg/l	1416 mg/l	563 mg/l
Sept	1991	746 mg/l	1238 mg/l	492 mg/l

7. The increments of TDS in Rancho Santa Fe WPCF effluent over supply water, as noted by Finding No. 6, are higher than typical incremental increase resulting from domestic water use, which is between 300 mg/l and 400 mg/l.
8. Regional Board Resolution No. 90-61, **A Resolution Amending Resolution No.90-40, A Regionwide Groundwater Amendment to the Comprehensive Water Quality Control Plan for the San Diego Region**, indicates that for areas downgradient of municipal supply reservoirs, effluent limitations for reclaimed water shall be at levels that are not less than constituent concentrations of water supply plus a typical incremental increase resulting from domestic water use, but not more than the Basin Plan ground water quality objectives.
9. This Order establishes the Rancho Santa Fe WPCF effluent limits at the levels which will comply with Regional Board Resolution No. 90-61.
10. RWD reports that golf course storage pond will be constructed above the 100 year flood plain, and golf course runoff drains to La Orilla Creek. This Order prohibits any discharge of treated or untreated wastewater to the La Orilla Creek or its tributaries.
11. The RWD reports that Rancho Santa Fe Golf Course is located in the San Elijo Hydrologic Subarea (4.61) of the Escondido

Hydrologic Area of the Carlsbad Hydrologic Unit. The Rancho Santa Fe WPCF and its percolation beds are located in the NW 1/4 of Section 33, T18S, R3W, SBB&M in the San Dieguito Hydrologic Area (5.10) of the San Dieguito Hydrologic Unit.

12. The "Comprehensive Water Quality Control Plan Report, San Diego Basin (9)" (Basin Plan) was adopted by this Regional Board on March 17, 1975; and subsequently approved by the State Water Resources Control Board (State Board). Subsequent revisions to the Basin Plan have also been adopted by the Regional Board and approved by the State Board.
13. The Basin Plan established the following beneficial uses for the ground water of the San Elijo HSA* (4.61):
 - (a) Municipal and domestic supply (potential)
 - (b) Agricultural supply
 - (c) Industrial service supply

* The beneficial uses do not apply westerly of the easterly boundary of the right-of-way of Interstate Highway 5. The beneficial uses for the remainder of the hydrologic area are as shown.
14. The Basin Plan established the following beneficial uses for the ground water of the San Dieguito HA* (5.10):
 - (a) Municipal and domestic supply
 - (b) Agricultural supply
 - (c) Industrial service supply
 - (d) Groundwater Recharge (potential)

* The beneficial uses do not apply westerly of the easterly boundary of the right-of-way of Interstate Highway 5. The beneficial uses for the remainder of the hydrologic area are as shown.
15. The Basin Plan established the following beneficial uses for the surface water of the San Elijo HSA (4.61):
 - (a) Municipal and domestic supply
 - (b) Agricultural supply
 - (c) Industrial service supply (potential)
 - (d) Hydropower generation
 - (e) Water contact recreation
 - (f) Non-contact water recreation
 - (g) Warm fresh-water habitat
 - (h) Cold fresh-water habitat
 - (i) Wildlife habitat
 - (k) Preservation of rare and endangered species

16. The Basin Plan established the following beneficial uses for the surface water of the San Dieguito HA (5.10):

- (a) Agricultural supply (potential)
- (b) Industrial service supply (potential)
- (c) Water contact recreation
- (d) Non-contact water recreation
- (e) Warm fresh-water habitat
- (f) Wildlife habitat
- (g) Preservation of rare and endangered species

17. The Basin Plan established the following water quality objectives for the San Elijo HSA and San Dieguito HA:

a. **The San Elijo HSA (4.61):**

Concentration not to be exceeded
more than 10 percent of the time

Constituent	Surface Water		Ground Water ¹	
Total dissolved solids	500	mg/L	2800	mg/L
Chloride	250	mg/L	700	mg/L
Percent sodium	60	%	60	%
Sulfate	250	mg/L	600	mg/L
Nitrate (as NO ₃)	---		45	mg/L
Nitrogen and phosphorus	**		---	
Iron	0.3	mg/L	0.3	mg/L
Manganese	0.05	mg/L	0.05	mg/L
Methylene blue active Substances	0.5	mg/L	0.5	mg/L
Boron	0.5	mg/L	1	mg/L
Odor	None		None	
Turbidity	20	NTU	5	NTU
Color	20	Units	15	Units
Fluoride	1.0	mg/L	1.0	mg/L

b. The San Dieguito HA (5.10):

Constituent	Concentration not to be exceeded more than 10 percent of the time			
	Surface Water		Ground Water ¹	
Total dissolved solids	500	mg/L	1500	mg/L
Chloride	250	mg/L	500	mg/L
Percent sodium	60	%	60	%
Sulfate	250	mg/L	500	mg/L
Nitrate (as NO ₃)	---		45	mg/L
Nitrogen and phosphorus	**		---	
Iron	0.3	mg/L	0.85	mg/L
Manganese	0.05	mg/L	0.15	mg/L
Methylene blue active Substances	0.5	mg/L	0.5	mg/L
Boron	0.5	mg/L	0.5	mg/L
Odor	None		None	
Turbidity	20	NTU	5	NTU
Color	20	Units	15	Units
Fluoride	1.0	mg/L	1.0	mg/L

Note: mg/L = milligrams per liter
NTU = Nephelometric turbidity units

** Concentrations of nitrogen and phosphorus, by themselves or in combination with other nutrients, shall be maintained at levels below those which stimulate algae and emergent plant growth. Threshold total phosphorus (P) concentrations shall not exceed 0.05 mg/L in any stream at the point where it enters any reservoir or lake, nor 0.025 mg/L in any reservoir or lake. A desired goal in order to prevent plant nuisances in streams and other flowing waters appears to be 0.1 mg/L total P. These values are not to be exceeded more than 10% of the time unless studies of the specific water body in question clearly show that water quality objective changes are permissible and changes are approved by the Regional Board. Analogous threshold values have not been set for nitrogen compounds, however, natural ratios of nitrogen to phosphorus are to be determined by surveillance and monitoring and upheld. If data are lacking, a ratio of N:P = 10:1 shall be used.

¹ The ground water quality objectives do not apply westerly of the easterly boundary of the right-of-way of I-5.

18. By letter dated February 17, 1992, Mr. John Pastore, General Manager of Rancho Santa Fe CSD, indicated that the current

discharge from the existing Rancho Santa Fe WPCF may not comply with Basin Plan ground water objective for nitrate. The existing Rancho Santa Fe WPCF uses the extended aeration activated sludge process, which converts over 90 percent of the influent organic and ammonia nitrogen to nitrate. Mr. Pastore also indicates that in order to comply with the Basin Plan objective for Nitrate, the Rancho Santa Fe WPCF needs to be modified. By letter dated April 17, 1992, Mr Frank Dudek, President of Dudek & Associates, Inc., submitted a proposed workplan and time schedule to address the nitrate issue as well as the high salinity problem as noted in Finding Nos. 6 and 7 of this Order. Mr. Dudek's proposed workplan and time schedule described the following tasks:

Tasks	Completion Date
1. Decide upon the necessary work tasks to make the discharge from RSFWPCF comply with the Basin Plan objective of nitrate, and to control the high level of salinity in the discharge from RSFWPCF	August 1, 1992
2. Complete water quality studies and submit a report of the results	October 15, 1992
3. Implement a water softener control and enforcement program	January 1, 1993
4. Complete and submit documents for Basin Plan amendment if necessary	March 1, 1993
5. Complete the construction of tertiary treatment facilities and denitrification if necessary	July 1, 1994
6. Achieve compliance with Discharge Specification B.1.b of this Order	July 1, 1994
19. The discharge of reclaimed water to the areas authorized under this Order is in conformance with State Water Resources Control Board Resolution No. 68-16, Statement of Policy with Respect to Maintaining High Quality of Waters in California . The wastewater reclamation and reuse projects that will occur in the areas of the San Elijo HSA and San Dieguito HA under the terms and conditions of this Order will:	
a) Have maximum benefit to the people of the State, because in the absence of reclaimed wastewater, imported potable	

water would be used for irrigation of the reclaimed water use areas described in this Order;

- b) Not unreasonably affect the beneficial uses of ground water in the San Elijo HSA and the San Dieguito HA; and
- c) Not cause the ground water quality objectives for the San Elijo HSA and the San Dieguito HA to be exceeded.

20. The Basin Plan contains the following prohibitions which are applicable to the discharge:

"Discharge of treated or untreated sewage or industrial wastewater, exclusive of cooling water or other waters which are chemically unchanged, to a watercourse, is prohibited except in cases where the water quality of said discharge complies with the receiving body water quality objectives."

"Discharge of treated or untreated sewage or industrial wastes in such manner or volume as to cause sustained surface flow or ponding on lands not owned or under control of the discharger is prohibited except in cases defined in the previous paragraph and in cases in which the responsibility for all downstream adverse effects is accepted by the discharger."

"Dumping or deposition of oil, garbage, trash or other solid municipal, industrial or agricultural waste directly into inland waters or watercourses or adjacent to the watercourses in any manner which may permit its being washed into the watercourse is prohibited."

"Dumping or deposition of oil, garbage, trash or other solid municipal, industrial or agricultural waste into natural or excavated sites below historic water levels or deposition of soluble industrial wastes at any site is prohibited, unless such site has been specifically approved by the Regional Board for that purpose."

21. On October 9, 1991, Rancho Santa Fe CSD certified a final Mitigated Negative Declaration in accordance with the California Environmental Quality Act (Public Resources Code Section 21000, et seq.). The project as approved by the Rancho Santa Fe CSD may cause temporary noise, erosion, air pollutants and vehicular traffic impacts, but it will not have a significant effect on water quality. The measures incorporated into the final Mitigated Negative Declaration will reduce the temporary noise, erosion, air pollutants and vehicular traffic impacts to levels below significance.

22. This Order prescribes waste discharge requirements and reclamation requirements governing the production and use of

reclaimed water, which the Regional Board has determined are necessary to protect the public health, safety and welfare pursuant to California Water Code, Division 7, Chapter 7, Sections 13500-13550 ("Water Reclamation Law"). This Order, which applies to the producer of reclaimed water, requires that the producer of the reclaimed water establish and enforce rules and regulations which apply to users, including purveyors, of the reclaimed water.

23. The Regional Board, in establishing the requirements contained herein, considered factors including, but not limited to, the following:
- (a) Beneficial uses to be protected and the water quality objectives reasonably required for that purpose;
 - (b) Other waste discharges;
 - (c) The need to prevent nuisance;
 - (d) Past, present, and probable future beneficial uses of the hydrologic unit under consideration;
 - (e) Environmental characteristics of the hydrologic unit under consideration;
 - (f) Water quality conditions that could reasonably be achieved through the coordinated control of all factors which affect water quality in the area;
 - (g) Economic considerations; and
 - (h) The need for additional housing within the region.
 - (i) The need to develop and use recycled water.
24. The Regional Board has considered all water resource related environmental factors associated with the proposed discharge of waste.
25. The Regional Board has notified Rancho Santa Fe CSD and all known interested parties of the intent to prescribe waste discharge requirements for the proposed discharge.
26. The Regional Board in a public meeting heard and considered all comments pertaining to the proposed discharge.

IT IS HEREBY ORDERED, That the Rancho Santa Fe Community Service District, hereinafter 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 requirements for Rancho Santa Fe WPCF:

A. PROHIBITIONS

1. Discharges of wastes, including windblown spray and runoff of effluent applied for irrigation, to lands which have not been specifically described in the report of waste discharge and for which valid waste discharge requirements are not in force are prohibited.
2. The discharge of any radiological, chemical or biological warfare agent, or high-level radiological waste is prohibited.
3. Storage, use and/or disposal of wastes in a manner that would result in ponding or surfacing of wastes on lands beyond the disposal area, as described in the findings of this Order, is prohibited.
4. The discharge of wastewater shall not:
 - (a) Cause the occurrence of coliform or pathogenic organisms in waters pumped from the basin;
 - (b) Cause the occurrence of objectionable tastes and odors in water pumped from the basin;
 - (c) Cause waters pumped from the basin to foam;
 - (d) Cause the presence of toxic materials in waters pumped from the basin;
 - (e) Cause the pH of waters pumped from the basin to fall below 6.0 or rise above 9.0;
 - (f) Cause this Regional Board's objectives for the ground or surface waters of the San Elijo HSA and the San Dieguito HA, as established in the Basin Plan, to be exceeded;
 - (g) Cause odors, septicity, mosquitos or other vectors, weed growth or other nuisance conditions in any inland watercourse;
 - (h) Cause a surface flow recognizable as sewage in any inland watercourse; or
 - (i) Cause a pollution, contamination or nuisance or adversely affect beneficial uses of the ground or surface waters of the San Elijo Hydrologic Subarea and the San Dieguito Hydrologic Area as established in the Basin Plan.

5. A 30-day average wastewater flowrate at Rancho Santa Fe WPCF in excess of 0.45 MGD is prohibited unless the discharger obtains revised waste discharge requirements for the proposed increased flow.
6. Odors, vectors, and other nuisances of sewage or sewage sludge origin beyond the limits of the treatment plant site or disposal area are prohibited.
7. The bypassing of wastewater to be used for landscape irrigation from the facilities which does not meet the discharge specifications of this order is prohibited.
8. The discharge of waste in a manner other than as described in the findings of this Order is prohibited unless the discharger obtains revised waste discharge requirements that provide for the proposed change.
9. The discharge of treated or untreated wastewater to any inland watercourse is prohibited.

B. DISCHARGE SPECIFICATIONS

- 1.(a) The discharge of an effluent containing pollutants in excess of the following effluent limitations is prohibited:

Constituent	Unit	Monthly ¹ Average	Daily ² Maximum
Biochemical Oxygen Demand (BOD ₅ @ 20°C)	mg/L	30	45
Total Suspended Solids	mg/L	30	45
pH		Within the limits of 6.0 to 9.0 at all times	
Total Dissolved Solids	mg/L	---	1500
Chloride	mg/L	---	500
Sulfate	mg/L	---	500
Percent Sodium	%	60	65
Iron	mg/L	0.85	1.0
Manganese	mg/L	0.15	0.20
Methylene Blue Active Substances	mg/L	0.5	0.6
Boron	mg/L	0.5	0.6
Color	Units	15	20
Fluoride	mg/L	1.0	1.2
Coliform		*	*
Turbidity		*	*

¹ The monthly average shall be the arithmetic mean, using the

result of analysis of all samples collected during any 30-consecutive calendar day period.

2 The daily maximum effluent limitation shall apply to the results of a single composite sample collected over a period of 24 hours, or a grab sample.

* Effluent used for irrigation purposes shall conform with all applicable provisions of California Code of Regulations, Title 22, Division 4, Chapter 3 (**Reclamation Criteria**) in its present form or as it may be amended.

1.(b) After July 1, 1994, effluent discharged from the Rancho Santa Fe WPCF to percolation beds shall not exceed the following limitation for nitrate:

Constituent	Unit	Monthly ¹ Average	Daily ² Maximum
Nitrate (as NO ₃)	mg/L	45	50

2. All waste treatment, containment and disposal facilities shall be protected against 100-year peak stream flows as defined by the San Diego County flood control agency.

3. All waste treatment, containment and disposal facilities shall be protected against erosion, overland runoff, and other impacts resulting from a 100-year frequency 24-hour storm.

4. Effluent storage facilities shall be designed, constructed, operated, and maintained so as to prevent surfacing of wastes on property not owned or controlled by the discharger. Surface runoff of any wastes which surface on property owned or controlled by the discharger onto property not owned or controlled by the discharger shall be prevented.

5. The discharger shall meet the design, operational, and reliability requirements of Articles 7, 8, 9 and 10 of the California Code of Regulations, Title 22, Division 4, Chapter 3. The discharger shall develop an engineering report conforming to Section 60323, Article 7 of the California Code of Regulations, Title 22, Division 4, Chapter 3. The engineering report shall be submitted to the State Department of Health Services, the San Diego County Department of Health Services, and the Regional Board Executive Officer. Reclaimed water from the Rancho Santa Fe WPCF shall not be used for irrigation until the engineering report is approved by the Regional Board Executive Officer.

C. PROVISIONS

1. Neither the treatment nor the discharge of waste shall create a pollution, contamination or nuisance, as defined by Section 13050 of the California Water Code.
2. The discharger must comply with all conditions of this Order. Any noncompliance with this Order constitutes a violation of the California Water Code and is grounds for (a) enforcement action; (b) termination, revocation and reissuance, or modification of this Order; or (c) denial of a report of waste discharge in application for new or revised waste discharge requirements.
3. In an enforcement action, it shall not be a defense for the discharger that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with this Order. Upon reduction, loss, or failure of the treatment facility, the discharger shall, to the extent necessary to maintain compliance with this Order, control production or all discharges, or both, until the facility is restored or an alternative method of treatment is provided. This provision applies for example, when the primary source of power of the treatment facility fails, is reduced, or is lost.
4. The discharger shall take all reasonable steps to minimize or correct any adverse impact on the environment resulting from noncompliance with this Order, including such accelerated or additional monitoring as may be necessary to determine the nature and impact of the noncompliance.
5. The discharger shall, at all times, properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by the discharger to achieve compliance with conditions of this Order. Proper operation and maintenance includes effective performance, adequate funding, adequate operator staffing and training, and adequate laboratory and process controls including appropriate quality assurance procedures. This provision requires the operation of backup or auxiliary facilities or similar systems only when necessary to achieve compliance with the conditions of this Order.
6. This Order may be modified, revoked and reissued, or terminated for cause including, but not limited to, the following:
 - (a) Violation of any terms or conditions of this Order;
 - (b) Obtaining this Order by misrepresentation or failure to disclose fully all relevant facts; or
 - (c) A change in any condition that requires either a temporary or permanent reduction or elimination of the authorized

discharge.

The filing of a request by the discharger for the modification, revocation and reissuance, or termination of this Order, or notification of planned changes or anticipated noncompliance does not stay any condition of this Order.

7. This Order is not transferrable to any person except after notice to the Executive Officer. The Regional Board may require modification or revocation and reissuance of this Order to change the name of the discharger and incorporate such other requirements as may be necessary under the California Water Code. The discharger shall submit notice of any proposed transfer of this Order's responsibility and coverage to a new discharger as described under Reporting Requirement E.3.
8. This Order does not convey any property rights of any sort or any exclusive privileges. The requirements prescribed herein do not authorize the commission of any act causing injury to persons or property, nor protect the discharger from liability under federal, state or local laws, nor create a vested right for the discharger to continue the waste discharge.
9. The discharger shall allow the Regional Board, or an authorized representative upon the presentation of credentials and other documents as may be required by law, to:
 - (a) Enter upon the discharger's premises where a regulated facility or activity is located or conducted, or where records must be kept under the conditions of this Order;
 - (b) Have access to and copy, at reasonable times, any records that must be kept under the conditions of this Order;
 - (c) Inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this Order; and
 - (d) Sample or monitor at reasonable times, for the purposes of assuring compliance with this Order or as otherwise authorized by the California Water Code, any substances or parameters at any location.
10. The discharger's wastewater treatment facilities shall be supervised and operated by persons possessing certificates of appropriate grade pursuant to Chapter 3, Subchapter 14, Title 23 of the California Code of Regulations.
11. A copy of this Order shall be maintained at Rancho Santa Fe WPCF and shall be available to operating personnel at all times.

12. The provisions of this Order are severable, and if any provision of this Order, or the application of any provision of this Order to any circumstance, is held invalid, the application of such provision to other circumstances, and the remainder of this Order, shall not be affected thereby.
13. The potable water supply shall not be used to supplement the reclaimed water supply except through an approved air gap. In other areas where the potable water supply is piped to premises where sewage is pumped, treated or reclaimed (i.e., sewage treatment plants or pumping stations, golf course, etc.) the potable water supply shall be protected at the property line in accordance with the State Department of Health Services' **Regulations Relating to Cross-Connections**.
14. All waste water treatment and disposal facilities shall be completely constructed and operable prior to the initiation of any landscape irrigation. A report from design engineer certifying the adequacy of each component of the treatment and disposal facilities shall be submitted by the discharger prior to commencement of the irrigation. The certification report shall contain a requirement-by-requirement analysis based on acceptable engineering practices, of how the process and physical designs of the facilities will ensure compliance with the waste discharge requirements. The design engineer shall affix his signature and engineering license number to the certification report and should submit it prior to construction of the facilities. The irrigation shall not be initiated until:
 - a. The certification report is received by the Regional Board Executive Officer;
 - b. The Regional Board Executive Officer has been notified of the completion of facilities by the discharger;
 - c. An inspection of the facilities has been made by staff of the Regional Board; and
 - d. The Regional Board Executive Officer has notified the discharger by letter that the irrigation can be initiated.

D. RECLAIMED WATER USE PROVISIONS

1. If Rancho Santa Fe CSD (discharger/producer) is supplying reclaimed water for use by other parties, the discharger/producer shall establish new or amend existing **Rules and Regulations for Reclaimed Water Users** governing the design and construction of reclaimed water use facilities and the use of reclaimed water. The rules and regulations shall, at a minimum, contain the following provisions:
 - a. Provisions implementing Title 22, Division 4, Chapter 3, Wastewater Reclamation Criteria, of the California Code of Regulations;

- b. Provisions implementing the State Department of Health Services (DOHS) **Guidelines For Use of Reclaimed Water and Guidelines for Use of Reclaimed Water for Construction Purposes** or measures, acceptable to DOHS, providing equivalent protection of public health;
- c. Provisions authorizing the Regional Board, the discharger/producer, or an authorized representative of these parties, upon presentation of proper credentials, to inspect the facilities of any reclaimed water user to ascertain whether the user is complying with the discharger/producer's rules and regulations;
- d. Provision for written notification, in a timely manner, to the discharger/producer by the reclaimed water user of any material change or proposed change in the character of the use of reclaimed water;
- e. Provision for submission of a preconstruction report to the discharger/producer by the reclaimed water user in order to enable the discharger/producer to determine whether the user will be in compliance with the discharger/producer's rules and regulations;
- f. Provision requiring reclaimed water users to designate a reclaimed water supervisor responsible for the reclaimed water system at each use area under the user's control. Reclaimed water supervisors should be responsible for the installation, operation, and maintenance of the irrigation system, enforcement of the discharger/producer's reclaimed water user rules and regulations, prevention of potential hazards, and maintenance of the reclaimed water distribution system plans in "as built" form;
- g. Provision authorizing the discharger/producer to cease supplying reclaimed water to any person who uses, transports, or stores such water in violation of the discharger/producer's rules and regulations;
- h. Provision requiring notification and concurrence of the State Department of Health Services and the County of San Diego Department of Health Services for new reclaimed water users;
- i. Provision requiring all reclaimed water storage facilities owned and /or operated by reclaimed water users to be protected against erosion, overland runoff, and other impacts resulting from a 100-year frequency, 24 hour storm;
- j. Provision requiring all reclaimed water storage facilities

owned and /or operated by reclaimed water users to be protected against 100 - year frequency peak stream flows as defined by the San Diego County flood control agency;

- k. Provision for notification to reclaimed water users that the Regional Board may initiate enforcement action against any reclaimed water user who discharges reclaimed water in violation of any applicable discharge prohibitions prescribed by the Regional Board or in a manner which creates, or threatens to create conditions of pollution, contamination, or nuisance, as defined in Water Code Section 13050; and
- l. Provision for notification to reclaimed water users that the Regional Board may initiate enforcement action against the discharger/ producer, which may result in the termination of the reclaimed water supply, if any person uses, transports, or stores such water in violation of the discharger/producer's rules and regulations or in a manner which creates, or threatens to create conditions of pollution, contamination, or nuisance, as defined in Water Code Section 13050.

The rules and regulations shall be subject to the approval of the Regional Board Executive Officer, the State Department of Health Services and the County of San Diego, Department of Health Services. The amended rules and regulations shall be submitted to the Regional Board within 90 days of adoption of this Order by the Regional Board.

2. If Rancho Santa Fe CSD (discharger/producer) is supplying reclaimed water for use by other parties, the discharger/producer shall implement and enforce the approved rules and regulations for reclaimed water users. Use of reclaimed water by the discharger/producer shall be consistent with provisions a. through l. in item D.1 above.
3. If Rancho Santa Fe CSD (discharger/producer) is supplying reclaimed water for use by other parties, the discharger/producer shall, within 90 days of the adoption of this Order, develop and submit to the Regional Board a program to conduct compliance inspections of reclaimed water reuse sites to determine the status of compliance with the approved rules and regulations for reclaimed water users. The discharger/producer shall implement the inspection program upon its approval by the Regional Board Executive Officer.
4. Reclaimed water shall not be supplied to parties who use, transport, or store such water in a manner which causes a pollution, contamination or nuisance, as defined by Section 13050 of the California Water Code.

5. Prior to using reclaimed water or supplying reclaimed water for use by other parties in any manner or in any area other than as described in the findings of this Order, the discharger/producer shall obtain proper authorization from this Regional Board.

E. REPORTING REQUIREMENTS

1. The discharger shall file a new Report of Waste Discharge at least 120 days prior to the following:
 - (a) Addition of a major industrial waste discharge to a discharge of essentially domestic sewage, or the addition of a new process or product by an industrial facility resulting in a change in the character of the wastes.
 - (b) Significant change in the treatment or disposal method (e.g., change in the method of treatment which would significantly alter the nature of the waste.)
 - (c) Change in the disposal area from that described in the findings of this Order.
 - (d) Increase in flow beyond that specified in this Order.
 - (e) Other circumstances which result in a material change in character, amount, or location of the waste discharge.
 - (f) Any planned change in the regulated facility or activity which may result in noncompliance with this Order.
2. The discharger shall furnish to the Executive Officer of this Regional Board, within a reasonable time, any information which the Executive Officer may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this Order. The discharger shall also furnish to the Executive Officer, upon request, copies of records required to be kept by this Order.
3. The discharger must notify the Executive Officer, in writing at least 30 days in advance of any proposed transfer of this Order's responsibility and coverage to a new discharger. The notice must include a written agreement between the existing and new discharger containing a specific date for the transfer of this Order's responsibility and coverage between the current discharger and the new discharger. This agreement shall include an acknowledgement that the existing discharger is liable for violations up to the transfer date and that the new discharger is liable from the transfer date on.
4. The discharger shall comply with the attached Monitoring and Reporting Program No. 92-04, and future revisions thereto as

specified by the Executive Officer. Monitoring results shall be reported at the intervals specified in Monitoring and Reporting Program No. 92-04.

5. Where the discharger becomes aware that it failed to submit any relevant facts in a Report of Waste Discharge or submitted incorrect information in a Report of Waste Discharge or in any report to the Regional Board, it shall promptly submit such facts or information.
6. The discharger shall report any noncompliance which may endanger health or the environment. Any such information shall be provided orally to the Executive Officer within 24 hours from the time the discharger becomes aware of the circumstances. A written submission shall also be provided within five days of the time the discharger becomes aware of the circumstances. The written submission shall contain a description of the noncompliance and its cause; the period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected; the anticipated time it is expected to continue; and steps taken or planned to reduce, eliminate, and prevent recurrence of the noncompliance. The Executive Officer, or an authorized representative, may waive the written report on a case-by-case basis if the oral report has been received within 24 hours. The following occurrence(s) must be reported to the Executive Officer within 24 hours:
 - (a) Any bypass from any portion of the treatment facility.
 - (b) Any discharge of treated or untreated wastewater resulting from sewer line breaks, obstruction, surcharge or any other circumstances.
 - (c) Any treatment plant upset which causes the effluent limitations of this Order to be exceeded.
7. All applications, reports, or information submitted to the Executive Officer shall be signed and certified as follows:
 - (a) The Report of Waste Discharge shall be signed as follows:
 - (1) For a corporation - by a principal executive officer of at least the level of vice-president.
 - (2) For a partnership or sole proprietorship - by a general partner or the proprietor, respectively.
 - (3) For a municipality, state, federal or other public agency - by either a principal executive officer or ranking elected official.

- (b) All other reports required by this Order and other information required by the Executive officer shall be signed by a person designated in paragraph (a) of this provision, or by a duly authorized representative of that person. An individual is a duly authorized representative only if:
 - (1) The authorization is made in writing by a person described in paragraph (a) of this provision;
 - (2) The authorization specifies either an individual or a position having responsibility for the overall operation of the regulated facility or activity; and
 - (3) The written authorization is submitted to the Executive Officer.
- (c) Any person signing a document under this Section shall make the following certification:

"I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment."

- 8. The discharger shall submit a progress report for tasks as noted in Finding No. 18 of this Order until the discharge is in compliance with the Discharge Specification B.1.b, and until the high level of salinity in the discharge is fully addressed. The progress report shall be submitted to the Executive Officer in accordance with the following schedule:

<u>Reporting Frequency</u>	<u>Report Period</u>	<u>Report Due</u>
Quarterly	January-March	April 30
	April-June	July 30
	July-September	October 30
	October-December	January 30

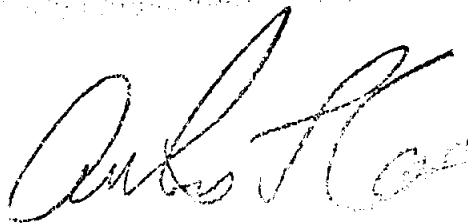
- 9. The discharger shall submit reports required under this Order, or other information required by the Executive Officer, to:

Executive Officer
 California Regional Water Quality Control Board San Diego Region
 9771 Clairemont Mesa Blvd, Suite B
 San Diego, California 92124- 1331

F. NOTIFICATIONS

1. California Water Code Section 13263(g) states:
"No discharge of waste into waters of the state, whether or not such discharge is made pursuant to waste discharge requirements, shall create a vested right to continue such discharge. All discharges of waste into waters of the state are privileges, not rights."
2. These requirements have not been officially reviewed by the United States Environmental Protection Agency and are not issued pursuant to Section 402 of the Clean Water Act.
3. The California Water Code provides that any person who intentionally or negligently violates any waste discharge requirements issued, reissued, or amended by this Regional Board is subject to a civil monetary remedy of up to 20 dollars per gallon of waste discharged or, if a cleanup and abatement order is issued, up to 15,000 dollars per day of violation or some combination thereof.
4. The California Water Code provides that any person failing or refusing to furnish technical or monitoring program reports, as required under this Order, or falsifying any information provided in the monitoring reports is guilty of a misdemeanor.
5. This Order becomes effective on the date of adoption by the Regional Board.
6. The requirements prescribed by this Order supersede the requirements prescribed by Order No. 87-56. Order No. 87-56 is hereby rescinded when this Order becomes effective.

I, Arthur L. Coe, Executive Officer, do hereby certify the foregoing is a full, true, and correct copy of an Order adopted by the California Regional Water Quality Control Board, San Diego Region, on May 18, 1992.



Arthur L. Coe
Executive Officer

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SAN DIEGO REGION

MONITORING AND REPORTING PROGRAM NO. 92-04
FOR
RANCHO SANTA FE COMMUNITY SERVICES DISTRICT
RANCHO SANTA FE WATER POLLUTION CONTROL FACILITY
SAN DIEGO COUNTY

A. MONITORING PROVISIONS

1. Samples and measurements taken as required herein shall be representative of the volume and nature of the monitored discharge. All samples shall be taken at the monitoring points specified in this Order and, unless otherwise specified, before the effluent joins or is diluted by any other waste stream, body of water, or substance. Monitoring points shall not be changed without notification to and the approval of the Executive Officer.
2. Appropriate flow measurement devices and methods consistent with accepted scientific practices shall be selected and used to ensure the accuracy and reliability of measurements of the volume of monitored discharges. The devices shall be installed, calibrated and maintained to ensure that the accuracy of the measurements are consistent with the accepted capability of that type of device. Devices selected shall be capable of measuring flows with a maximum deviation of less than ± 5 percent from true discharge rates throughout the range of expected discharge volumes. Guidance in selection, installation, calibration and operation of acceptable flow measurement devices can be obtained from the following references:
 - (a) "A Guide to Methods and Standards for the Measurement of Water Flow," U. S. Department of Commerce, National Bureau of Standards, NBS Special Publication 421, May 1975, 97 pp. (Available from the U. S. Government Printing Office, Washington, D. C. 20402. Order by SD Catalog No. C13.10:421.)
 - (b) "Water Measurement Manual," U. S. Department of Interior, Bureau of Reclamation, Second Edition, Revised Reprint, 1974, 327 pp. (Available from the U. S. Government Printing Office, Washington D. C. 20402. Order by Catalog No. 127,19/2:W29/2, Stock No. S/N 24003-0027.)
 - (c) "Flow Measurement in Open Channels and Closed Conduits," U. S. Department of Commerce, National Bureau of Standards, NBS Special Publication 484, October 1977, 982 pp. (Available in paper copy or microfiche from National Technical Information Service (NTIS) Springfield, VA 22151. Order by NTIS No. PB-273-535/5ST.)

- (d) "NPDES Compliance Sampling Manual," U. S. Environmental Protection Agency, Office of Water Enforcement. Publication MCD-51, 1977, 140 pp. (Available from the General Services Administration (8FFS), Centralized Mailing Lists Services, Building 41, Denver Federal Center, Denver, CO 80225.)
3. Monitoring must be conducted according to United States Environmental Protection Agency test procedures approved under Title 40, Code of Federal Regulations (CFR), Part 136, "Guidelines Establishing Test Procedures for Analysis of Pollutants Under the Clean Water Act" as amended, unless other test procedures have been specified in this Order.
 4. All analyses shall be performed in a laboratory certified to perform such analyses by the California Department of Health Services or a laboratory approved by the Executive Officer.
 5. Monitoring results must be reported on discharge monitoring report forms approved by the Executive Officer.
 6. If the discharger monitors any pollutants more frequently than required by this Order, using test procedures approved under 40 CFR, Part 136, or as specified in this Order, the results of this monitoring shall be included in the calculation and reporting of the data submitted in the discharger's monitoring report. The increased frequency of monitoring shall also be reported.
 7. The discharger shall retain records of all monitoring information, including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation, copies of all reports required by this Order, and records of all data used to complete the application for this Order. Records shall be maintained for a minimum of five years from the date of the sample, measurement, report or application. This period may be extended during the course of any unresolved litigation regarding this discharge or when requested by the Regional Board Executive Officer.
 8. 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 or measurements;
 - (c) The date(s) analyses were performed;
 - (d) The individual(s) who performed the analyses;
 - (e) The analytical techniques or method used; and
 - (f) The results of such analyses.

9. All monitoring instruments and devices which are used by the discharger to fulfill the prescribed monitoring program shall be properly maintained and calibrated as necessary to ensure their continued accuracy.
10. The discharger shall report all instances of noncompliance not reported under Reporting Requirement E.6 of this Order at the time monitoring reports are submitted. The reports shall contain the information listed in Reporting Requirement E.6.
11. The monitoring reports shall be signed by an authorized person as required by Reporting Requirement E.8.
12. A composite sample is defined as a combination of at least eight sample aliquots of at least 100 milliliters, collected at periodic intervals during the operating hours of a facility over a 24 hour period. For volatile pollutants, aliquots must be combined in the laboratory immediately before analysis. The composite must be flow proportional; either the time interval between each aliquot or the volume of each aliquot must be proportional to either the stream flow at the time of sampling or the total stream flow since the collection of the previous aliquot. Aliquots may be collected manually or automatically.
13. A grab sample is an individual sample of at least 100 milliliters collected at a randomly selected time over a period not exceeding 15 minutes.
14. Sampling and analysis shall, as a minimum, be conducted in accordance with Article 6 of California Code of Regulations, Title 22, Division 4, Chapter 3 (**Reclamation Criteria**).

B. EFFLUENT MONITORING

The following shall constitute the effluent monitoring program for Ranch Santa Fe WPCF:

Determination	Unit	Sample Type	Sampling Frequency	Reporting Frequency
Flowrate	GPD	Continuous	Continuous	Quarterly
Biochemical Oxygen Demand (5-Day @ 20°C)	mg/L	Composite	Weekly	Quarterly
Total Suspended Solids	mg/L	Composite	Weekly	Quarterly
Volatile Suspended Solids	mg/L	Composite	Weekly	Quarterly
pH	Unit	Composite	Weekly	Quarterly
Total Dissolved Solids	mg/L	Composite	Quarterly	Quarterly
Chloride	mg/L	Composite	Quarterly	Quarterly
Percent Sodium Sulfate	%	Composite	Quarterly	Quarterly
Nitrate (NO ₃)	mg/L	Composite	Quarterly	Quarterly
Iron	mg/L	Composite	Quarterly	Quarterly
Manganese	mg/L	Composite	Quarterly	Quarterly
Methylene Blue Active Substances	mg/L	Composite	Quarterly	Quarterly
Boron	mg/L	Composite	Quarterly	Quarterly
Fluoride	mg/L	Composite	Quarterly	Quarterly
Aluminum	mg/L	Composite	Annual	Annual
Arsenic	mg/L	Composite	Annual	Annual
Barium	mg/L	Composite	Annual	Annual
Cadmium	mg/L	Composite	Annual	Annual
Chromium	mg/L	Composite	Annual	Annual
Copper	mg/L	Composite	Annual	Annual
Lead	mg/L	Composite	Annual	Annual
Mercury	mg/L	Composite	Annual	Annual
Selenium	mg/L	Composite	Annual	Annual
Silver	mg/L	Composite	Annual	Annual
Zinc	mg/L	Composite	Annual	Annual
Coliform	MPN/100 ml	Grab	*	Quarterly
Turbidity	NTU	Continuous	*	Quarterly
Chlorine Residual	mg/L	Grab	**	Quarterly

* Sampling and analysis shall, as a minimum, be conducted in accordance with all applicable provisions of California Code of Regulations, Title 22, Division 4, Chapter 3, Article 6 in its present form or as it may be amended.

** Sampling and analysis frequency shall be consistent with sampling and analysis frequency of coliform.

Note: GPD = gallons per day
 mg/L = milligrams per liter

C. POTABLE SUPPLY WATERS

The following shall constitute the potable water monitoring program for Rancho Santa Fe WPCF:

Determination	Unit	Sample Type	Sampling Frequency	Reporting Frequency
Total Dissolved Solids	mg/L	Grab	Semiannual	Quarterly
Chloride	mg/L	Grab	Semiannual	Quarterly
Sulfate	mg/L	Grab	Semiannual	Quarterly

D. RECLAIMED WATER USERS SUMMARY REPORT

If Rancho Santa Fe CSD (discharger/producer) is supplying reclaimed water for use by other parties, the discharger/producer shall submit a quarterly reclaimed water users summary report containing the following information:

a) **Reclaimed water use site summary information**

The following information shall be submitted for each reclaimed water use site.

- 1) Name of the reclaimed water use site
- 2) Owner of the reclaimed water use facility
- 3) Address of the reclaimed water use site
- 4) Name of the reclaimed water use supervisor
- 5) Phone number of the reclaimed water use supervisor
- 6) Mailing address of the reclaimed water use supervisor, if different from site address
- 7) Basin Plan name and number of hydrologic subarea underlying the reclaimed water use site
- 8) Volume of reclaimed water delivered to the reclaimed water use site on a monthly basis.
- 9) Title 22 level of treated waste water approved by Department of Health Services for delivered to the reclaimed water use site.

b) **Reclaimed water use summary information**

- 1) Total volume of reclaimed water supplied to all reclaimed water users for each month of the reporting period.
- 2) Total number of reclaimed water use sites.

c) **Reclaimed water use site inspections**

Number of reclaimed water use site inspections conducted by discharger/producer staff and identification of sites inspected for the reporting period.

d) **Reclaimed water user violations of the discharger/producer's rules and regulations**

The discharger/producer shall identify all reclaimed water users known by the discharger/producer to be in violation of the discharger/producer's rules and regulations for reclaimed water users. The report shall include a description of the noncompliance and its cause, including the period of noncompliance, and if the noncompliance has not been corrected; the anticipated time it is expected to continue; and steps taken or planned to reduce, eliminate, and prevent recurrence of the noncompliance.

E. SEWAGE SOLIDS

A log of the type, quantity, location, and manner of disposal of solids removed in the course of sewage treatment shall be maintained and submitted monthly.

F. REPORTING

Monitoring reports shall be submitted to the Executive Officer in accordance with the following schedule:

<u>Reporting Frequency</u>	<u>Report Period</u>	<u>Report Due</u>
Quarterly	January-March	April 30
	April-June	July 30
	July-September	October 30
	October-December	January 30
Semiannual	January-June	July 30
	July-December	January 30

Monitoring and Reporting
Program No. 92-04

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Monitoring reports shall be submitted to:

California Regional Water Quality Control Board
San Diego Region
9771 Clairemont Mesa Blvd., Suite B
San Diego, CA 92124-1331

Ordered by



Arthur L. Coe
Executive Officer
May 18, 1992

