CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD

SAN DIEGO REGION

ORDER NO. R9-2009-0072

WASTE DISCHARGE REQUIREMENTS FOR COUNTY OF SAN DIEGO SAN PASQUAL ACADEMY SAN DIEGO COUNTY

The following Discharger is subject to waste discharge requirements as set forth in this Order:

Table 1. Facility Information

Discharger	**County of San Diego**
Name of Facility	**San Pasqual Academy**
Facility Address	**17701 San Pasqual Valley Road, Escondido, CA 92065**
Facility Contact, Phone	**Ms. Milica Kaludjerski, (858) 694-2718**
Mailing Address	**5555 Overland Ave., Suite 2188, San Diego, CA 92123-1295**
Type of Facility	**Wastewater Treatment**
Facility Design Flow	**0.05 million gallons per day**

The discharge by the County of San Diego from the discharge points identified below is subject to waste discharge requirements as set forth in this Order:

Table 2. Discharge Location

Discharge Point	Effluent Description	Hydrologic Area of Discharge
001 (Percolation/Spray Field bed)	Undisinfected Effluent	Las Lomas Muertas Hydrologic Subarea (HSA 905.32)

Table 3. Administrative Information

This Order was adopted by the California Regional Water Quality Control Board, San Diego Region on:	**December 16, 2009**
This Order shall become effective on:	**December 16, 2009**

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

1. Order No. 94-04, *Waste Discharge Requirements for Southeastern California Conference Seventh-Day Adventist, San Pasqual Academy, San Diego County* prescribes requirements for the treatment and disposal of 0.05 million gallons per day (MGD).

2. The San Pasqual Academy is located at 17701 San Pasqual Valley Road in Escondido, California, in the easterly end of the San Pasqual Valley in the E1/2 of Section 35, T12S, R1W, SBB&M, adjacent to the San Dieguito River, in the Las Lomas Muertas Hydrologic Subarea (HSA 905.32) of the San Pasqual Hydrologic Area (HA 905.30) of the San Dieguito Hydrologic Unit (HU 905.00), approximately 10 miles upgradient of Lake Hodges, a domestic supply reservoir.

3. The County of San Diego (Discharger) acquired the San Pasqual Academy in May 2000 and submitted updated information about a new treatment process at the facility in August 2009, requesting an update of the Waste Discharge Requirements.

4. The treatment process consists solely of bar screens and a lined aeration pond to produce undisinfected effluent. Treated wastewater effluent is pumped from the aeration pond to a one acre grass strip percolation/spray irrigation bed bounded with eucalyptus trees. Weeds and vegetation from the irrigation bed are tilled once every 2 to 3 months. Screenings and sludge are dried on site. After drying, screenings and sludge are hauled to the Ramona Landfill and/or the Otay Landfill.

5. The wastewater treatment process receives sewage from the San Pasqual Academy and adjacent residential buildings. The San Pasqual Academy includes school buildings, an administration center, a storage building, dormitories, a fire station, and laundry facilities for an average daily population of 325 staff and students.

6. Domestic wastewater typically contains high concentrations of total dissolved solids, chlorides, phosphates, total nitrogen, and pathogens. Although most constituents can be removed to acceptable levels under optimal system operational and performance conditions, some remain in the effluent exiting the system. If not properly managed, the discharge could impact water quality in groundwater in the Las Lomas Muertas HSA.

7. Evaporation of wastewater from the Discharger's aeration pond identified in above Finding No. 4 and the use of water softeners in the older residential units are reportedly contributing to elevated concentrations of total dissolved solids (TDS) and chloride in the effluent. These concentrations have at times exceeded the 30-day average discharge specifications of 800 milligrams per liter (mg/L) for TDS and

130 mg/L for chloride prescribed in Order No. 94-04. As a result, additional management measures are necessary to control salinity in the discharge.

8. The Discharger has not been required to monitor for total nitrogen in its effluent. Aerated ponds typically are not capable of reducing nitrogen to levels below the groundwater water quality objective of 10 mg/L as NO_3^- or 2.2 mg/L as N. Consequently, additional management measures are needed to protect groundwater quality including participation in the development of the salt and nutrient management plan for the San Pasqual HA and implementation of an irrigation management plan.

9. An irrigation management plan is needed to achieve compliance with the *Water Quality Control Plan for the San Diego Basin (9)*, (Basin Plan) and Resolution No. 68-16. This management plan would include identification of appropriate source reduction management measures at the San Pasqual Academy, including limitations, if necessary, on the concentrations of salts, nutrients, and other pollutants in the wastewater discharge.

10. Groundwater from two onsite wells serves as the potable water supply for the San Pasqual Academy. Analysis results for grab groundwater samples taken from the two onsite wells, as reported in the 2008 Consumer Confidence Report for San Pasqual Academy dated June 2009, were are as follows:

Table 4. Potable Water Supply Water Quality

CONSTITUENT	TDS	Cl	SO_4	NO_3	Fe	Mn	F
Concentration (mg/L)	309 - 580	94	62	0.74	0.309 - 1.63	0.003 - 0.070	0.2

Notes: TDS = total dissolved solids; Cl = chloride; SO_4 = sulfate; NO_3 = nitrate; Fe = iron; Mn = manganese; and F = fluoride.

11. In accordance with the criteria established in section 2200, Title 23 of the California Code of Regulations (CCR), the wastewater discharged from the treatment system is appropriately classified as having a threat to water quality at category "2" and complexity at category "B".[1]

12. This Regional Board, acting in accordance with section 13244 of the California Water Code, adopted the Basin Plan on September 8, 1994. The Basin Plan was subsequently approved by the State Water Resources Control Board (State Board) on December 13, 1994. Subsequent revisions to the Basin Plan have also been adopted by the Regional Board and approved by the State Board. The Basin Plan

[1] Category "2" – Those discharges of waste that could impair the designated beneficial uses of the receiving water, cause short-term violations of water quality objectives, cause secondary drinking water standards to be violated, or cause a nuisance. Category "B" – Any discharge not included above that has physical, chemical, or biological treatment systems (except for septic systems with subsurface disposal), or any Class 2 or Class 3 waste management units.

contains beneficial uses, water quality objectives, and provides guidance for regulation of the discharge of domestic wastewater.

13. The Basin Plan established municipal and domestic supply (MUN), agricultural supply (AGR), and industrial service supply (IND) as existing beneficial uses of groundwater in the San Pasqual HA 905.30.

14. The Basin Plan establishes the following groundwater quality objectives for San Pasqual HA 905.30:

Table 5. Water Quality Objectives for Groundwater

HYDROLOGIC AREA	CONSTITUENT (mg/L or as noted)												
	(Concentrations not to be exceeded more than 10% of the time during any one year period)												
	TDS	Cl	SO_4	$\%Na^2$	$N0_3^-$	Fe	Mn	MBAS	B	ODOR	TURB (NTU)	COLOR (UNITS)	F
San Pasqual (905.30)	1,000	400	500	60	10	0.3	0.05	0.5	0.75	none	5	15	1.0

Notes: TDS = total dissolved solids; Cl = chlorine; SO_4 = sulfate; %Na = percent sodium; NO_3 = nitrate; Fe = iron; Mn = manganese; MBAS = methylene blue – activated substance; B = boron; Turb = turbidity (NTU = nephelometric turbidity units); F = fluoride.

15. State Board Resolution No. 2009-0011, *Adoption of a Policy for Water Quality Control for Recycled Water*, references and adopts the "State Water Resources Control Board Recycled Water Policy" (Recycled Water Policy). The Recycled Water Policy acknowledged that the appropriate way to address salt and nutrient issues is through the development of regional or subregional salt and nutrient management plans. The development of the salt and nutrient management plans will be through a cooperative effort amongst local water and wastewater entities and local salt/nutrient contributing stakeholders. Because the discharge regulated by this Order contributes salts and nutrients to the groundwater basin, the Discharger is a stakeholder in the development of the San Pasqual Hydrologic Area's salt and nutrient management plan.

16. The State Board established California's antidegradation policy in Resolution No. 68-16, *Statement of Policy with Respect to Maintaining High Quality of Waters in California*. Resolution No. 68-16 incorporates the federal antidegradation policy where applicable. Resolution No. 68-16 requires that existing quality of waters be maintained unless degradation is justified based on specific findings.

17. The adoption of this Order constitutes the permitting of an existing facility and as such is exempt from the provisions of the California Environmental Quality Act (Public Resources Code, section 21000 et seq.) in accordance with CCR Title 14, chapter 3, article 19, section 15301.

18. The discharge of wastewater is exempt from CCR Title 27 regulations in accordance with CCR, Title 27, Division 2, Subdivision 1, Chapter 1, Article 1 because it meets the conditions prescribed in CCR section 20090(b): (a) the discharge is subject to the waste discharge requirements prescribed in this Order; (b) the discharge is in compliance with the Basin Plan; and (c) the discharge is not a hazardous waste.

19. This Regional Board has notified the Discharger and all known interested persons of the intent to prescribe waste discharge requirements for the proposed discharge.

20. This Regional Board in a public meeting has heard and considered all comments pertaining to the discharge of waste from the wastewater treatment system at the San Pasqual Academy.

IT IS HEREBY ORDERED THAT the County of San Diego (Discharger), in order to meet the provisions contained in Division 7 of the Water Code and Regulations adopted thereunder, shall comply with the following requirements for the treatment and disposal of domestic wastewater at the San Pasqual Academy.

A. PROHIBITIONS

1. Discharge of wastes or sewage sludge or solids to lands that have not been specifically described in the findings of this Order, and for which valid waste discharge requirements are not in force, are prohibited.

2. Neither the treatment, nor storage, nor disposal of waste shall create a condition of pollution, contamination, or nuisance, as defined by Water Code section 13050.

3. Discharges of treated or untreated solid or liquid waste into a navigable water or tributary of a navigable water are prohibited, unless as authorized by National Pollutant Discharge Eliminations System (NPDES) requirements issued by this Regional Board.

4. The discharge of wastewater shall not cause a violation of the waste discharge prohibitions contained in the Basin Plan.

5. 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.

6. A 30-day average wastewater flow rate at the San Pasqual Academy Wastewater Treatment Plant in excess of 0.05 mgd is prohibited unless the discharger obtains revised waste discharge requirements for the proposed increased flow.

B. DISCHARGE SPECIFICATIONS

1. Treated wastewater shall not contain pollutants in excess of the following effluent limitations based on secondary treatment standards:

Table 6. Discharge Specifications Based on Secondary Treatment Standards

Constituent	Units	30-Day Average[a]	7-Day Average[b]
Biochemical Oxygen Demand$_5$[c]	mg/L	30	45
Total Suspended Solids	mg/L	30	45
pH	pH Units	Within the limits of 6.0 to 9.0 at all times	

a. The 30-day average discharge specification shall apply to the arithmetic mean of the results of all samples collected during any calendar month.

b. The 7-day average discharge specification shall apply to the arithmetic mean of the results of samples collected in a period of 7 consecutive days.

c. If carbonaceous biochemical oxygen demand$_5$ is monitored, the discharge specifications are 25 mg/L for the 30-day average and 40 mg/L for the 7-day average.

2. The discharge from the San Pasqual Academy treatment process shall be managed on a basin-wide basis through compliance with the San Pasqual HA salt and nutrient management plan, in a manner that ensures attainment of water quality objectives and protection of beneficial uses. Until such time that a salt and nutrient management plan is in effect for the San Pasqual HA, the Discharger shall develop an Irrigation Management Plan for the disposal area. The Irrigation Management Plan shall include measures to ensure the use of effluent occurs at an agronomic rate, employ practices to ensure irrigation efficiency necessary to minimize application of salinity constituents (by mass) to the disposal area, and account for iron and manganese in the effluent.

3. Effluent discharged to the San Pasqual HA shall not contain pollutants in excess of the following Basin Plan water quality objectives:

Table 7. Discharge Specifications

Constituent	Units	Annual Average[a]
TDS	mg/L	800
Chloride	mg/L	200
Sulfate	mg/L	150
MBAS	mg/L	0.5
Fluoride	mg/L	1
Boron	mg/L	0.5

a. The annual average shall be calculated once every calendar year and apply to the arithmetic mean of the results of all samples collected during any calendar year.

4. Collected screenings, sludge, other solids removed from liquid wastes, and filter backwash shall be disposed in a manner described in the Findings of this Order or as approved by the Regional Board. Sewage sludge treatment and disposal must comply with all pertinent paragraphs of part 503, subchapter O, chapter I of Title 40 Code of Federal Regulations (CFR) under the U.S. Environmental Protection Agency's (USEPA) jurisdiction.

C. FACILITY DESIGN AND OPERATION SPECIFICATIONS

1. Within 180 days of the adoption of this Order, the Discharger shall develop and submit the Irrigation Management Plan to the Regional Board. The Irrigation Management Plan shall account for the following:

   a. Soil characteristics;

   b. Effluent characteristics;

   c. General requirements of the major plant species being irrigated (e.g., seasonal demand, climate, nutrient requirements);

   c. Climatic conditions (e.g., precipitation, evapotranspiration rate, wind);

   e. Other supplemental nutrient additions (e.g., chemical fertilizers) generally used within the disposal area; and

   f. Management of impoundments used to store or collect effluent.

2. 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.

3. A copy of the facility operations manual shall be maintained at the Discharger's facility and shall be available to operation personnel and Regional Board staff at all times.

4. The Discharger's wastewater treatment facilities shall be supervised and operated by persons possessing certificates of appropriate grade pursuant to CCR Title 23, Division 3, Chapter 26.

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

6. All wastewater and treated wastewater storage facilities shall be protected against erosion, overland runoff, and other impacts resulting from a 100-year, 24-hour frequency storm.

7. The Discharger shall comply with the attached Monitoring and Reporting Program No. R9-2009-0072 and future revisions thereto as specified by the Regional Board. Monitoring results shall be reported at the intervals specified in Monitoring and Reporting Program No. R9-2009-0072.

D. BIOSOLIDS SPECIFICATIONS

1. Management of all solids and sludge must comply with all applicable requirements of 40 CFR Parts 257, 258, 501 and 503; Clean Water Act Part 405(d), and CCR Title 27, including all monitoring, record keeping, and reporting requirements. Since the State of California, hence the State and Regional Boards, has not been delegated the authority by the USEPA to implement the sludge program, enforcement of sludge requirements of CFR Part 503 is under the USEPA's jurisdiction. Once sludge leaves a facility, it is subject to all applicable local, state, and federal laws and regulations.

2. All collected screenings, sludge, and other solids removed from liquid wastes must be disposed of in a municipal solid waste landfill, reused by land application, or disposed of in a sludge-only landfill accordance with 40 CFR Parts 503 and 258, and CCR Title 27. If the Discharger desires to dispose of solids or sludge by a different method, a request for order modification must be submitted to the USEPA and the Regional Board 180 days prior to the initiation of the alternative disposal.

3. Solids and sludge treatment, storage, and disposal or reuse shall not create a nuisance, such as objectionable odors or flies, and shall not result in groundwater contamination.

4. The solids and sludge treatment site and storage site shall have facilities adequate to divert surface water runoff from adjacent areas, to protect the boundaries of the site from erosion, and to prevent drainage from the treatment and storage site. Adequate protection is defined as protection from at least a 100-year storm and protection from the highest possible tidal stage that may occur.

5. The discharge of sewage sludge and solids shall not cause waste material to be in a position where it is, or can be, conveyed from the treatment and storage sites and deposited in the waters of the state.

6. The Discharger shall submit a copy of each of the annual reports required by 40 CFR 503 to the Regional Board Executive Officer at the same time those reports are submitted to the USEPA. The Discharger shall also

submit an annual report of the quantity and disposition of sludge generated in the previous calendar year.

E. STANDARD PROVISIONS

1. The Regional Board may initiate enforcement action against the Discharger, which may result in the termination of the discharge, if any person uses, transports, or stores such waste in a manner which creates, or threatens to create conditions of pollution, contamination, or nuisance, as defined in Water Code section 13050.

2. The Discharger must comply with all conditions of this Order. Any noncompliance with this Order constitutes a violation of the 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. 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 do the following:

   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 Water Code, any substances or factors at any location.

4. The Water Code provides that any person who intentionally or negligently violates any waste discharge requirements issued, reissued, or amended by this Regional Board shall be liable civilly in accordance with Water Code section 13350.

5. The 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 and is subject to a civil liability in accordance with Water Code section 13268.

6. The Discharger shall report any noncompliance which may endanger health or the environment. Pursuant to section 5411.5 of the California Health and Safety Code, any sewage overflow or spill shall be immediately reported to the Director of Environmental Health, County of San Diego. In addition, any such information shall be provided orally to the Regional Board within 24 hours from the time the Discharger becomes aware of the circumstances. A written submission shall also be provided within 5 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 Regional Board, 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 Regional Board 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; or

   c. Any treatment process upset which causes the discharge specifications of this Order to be exceeded.

7. The Discharger shall report all overflow events that occur at the San Pasqual Academy. For purposes of this reporting requirement, an overflow event is defined as a discharge of treated or untreated wastewater at a location onsite or other lands owned by the Discharger not authorized by waste discharge requirements and/or NPDES requirements which results from a pump station failure, line break, obstruction, surcharge, or any other operational dysfunction. This reporting requirement applies to all overflow events other than those events subject to regulation under State Board Order No. 2006-0003-DWQ and Regional Board Order No. R9-2007-0005. Overflows of the kind identified under this provision shall be reported to the Regional Board with the quarterly monitoring report in which the overflow occurs.

8. If a need for a discharge bypass is known in advance, the Discharger shall submit prior notice (stating, at a minimum, the purpose, anticipated dates, duration, level of treatment, and volume of bypass) and, if at all possible, such notice shall be submitted at least 10 days prior to the date of the bypass.

9. 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.

10. In an enforcement action, a defense for the Discharger shall not be that halting or reducing the regulated activity would have been necessary 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, 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 to the treatment facility fails, is reduced, or is lost.

11. Except for a discharge which is in compliance with these waste discharge requirements, any person who, without regard to intent or negligence, causes or permits any hazardous substance or sewage to be discharged in or on any waters of the state, shall as soon as (a) that person has knowledge of the discharge, (b) notification is possible, and (c) notification can be provided without substantially impeding cleanup or other emergency measures, immediately notify the Director of Environmental Health, County of San Diego in accordance with California Health and Safety Code section 5411.5 and notify the California Office of Emergency Services of the discharge in accordance with the spill reporting provision of the state toxic disaster contingency plan adopted pursuant to Government Code Title 2, Division 1, Chapter 7, Article 3.7 (commencing with section 8574.17), and immediately notify the State Board or the appropriate Regional Board of the discharge. This provision does not require reporting of any discharge of less than a reportable quantity as provided for under subdivisions (f) and (g) of section 13271 of the Water Code unless the Discharger is in violation of a Basin Plan prohibition.

12. Except for a discharge which is in compliance with these waste discharge requirements, any person who without regard to intent or negligence, causes or permits any oil or petroleum product to be discharged in or on any waters of the state, or discharged or deposited where it is, or probably will be, discharged in or on any waters of the state, shall, as soon as (a) such person has knowledge of the discharge, (b) notification is possible, and (c) notification can be provided without substantially impeding cleanup or other emergency measures, immediately notify the California Office of Emergency Services of the discharge in accordance with the spill reporting provision of the state oil spill contingency plan adopted pursuant to Government Code Title 2, Division 1, Chapter 7, Article 3.7 (commencing with section 8574.1). This requirement does not require reporting of any discharge of less than 42 gallons unless the discharge is also required to be reported pursuant to CWA section 311 or the discharge is in violation of a Basin Plan prohibition.

13. A copy of this Order shall be maintained at the Discharger's facility and shall be available to operating personnel at all times.

14. The Discharger shall retain records of all monitoring information, including all calibration and maintenance records, 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.

15. The Discharger shall furnish to the Regional Board, within a reasonable time, any information which the Regional Board may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this Order. The Discharger shall also furnish to the Regional Board, upon request, copies of records required to be kept by this Order.

16. This Order may be amended, rescinded, or updated 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 amending, rescinding, or updating this Order, or notification of planned changes or anticipated noncompliance does not stay any condition of this Order.

17. 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 that result in a material change in character, amount, or location of the waste discharge; or

f. Any planned change in the regulated facility or activity which may result in noncompliance with this Order.

18. This Order is not transferable to any person except after notice to the Regional Board. The Discharger shall submit this notice in writing at least 30 days in advance of any proposed transfer. 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. 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 Water Code.

19. 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.

20. All applications, reports, or information submitted to the Regional Board shall be signed and certified as follows:

    a. The Report of Waste Discharge shall be signed as follows:

        i. For a corporation - by a principal executive officer of at least the level of vice-president;

        ii. For a partnership or sole proprietorship - by a general partner or the proprietor, respectively; and

        iii. 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 Regional Board 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:

i. The authorization is made in writing by a person described in paragraph (a) of this provision;

ii. The authorization specifies either an individual or a position having responsibility for the overall operation of the regulated facility or activity; and

iii. The written authorization is submitted to the Regional Board.

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."

21. The Discharger shall submit reports required under this Order or other information required by the Regional Board to the following address:

California Regional Water Quality Control Board
San Diego Region
9174 Sky Park Court, Suite 100
San Diego, California 92123
Attn: Groundwater Basins Branch

F. NOTIFICATIONS

1. 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.

2. These requirements have not been officially reviewed by the USEPA and are not issued pursuant to CWA section 402.

3. 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.

4. The requirements prescribed by this Order supersede the requirements prescribed by Order No. 94-04.

5. This Order becomes effective on the date of adoption by the Regional Board.

I, David W. Gibson, 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 December 16, 2009.

/s/ DAVID W. GIBSON, Executive Officer
San Diego Regional Water Quality Control Board

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SAN DIEGO REGION

MONITORING AND REPORTING PROGRAM NO. R9-2009-0072

THE COUNTY OF SAN DIEGO
SAN PASQUAL ACADEMY
SAN DIEGO COUNTY

This Monitoring and Reporting Program is issued under authority of California Water Code section 13267 and is needed to provide information necessary to determine compliance by the County of San Diego (Discharger) with Waste Discharge Requirements in Order No. R9-2009-0072. The burden of these reports, including the costs, is reasonable in relationship to the need for and benefit obtained from the reports.

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 collected from the monitoring points specified in this Monitoring and Reporting Program (MRP) 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 acceptance by the California Regional Water Quality Control Board, San Diego Region (Regional Board).

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 is 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 10 percent from true discharge rates throughout the range of expected discharge volumes.

3. Unless otherwise permitted by the Regional Board, all analyses shall be conducted at a laboratory certified for such analyses by the California Department of Public Health. The Discharger must use a laboratory capable of producing and providing quality assurance/quality control (QA/QC) records for Regional Board review. The director of the laboratory whose name appears on the certification shall supervise all analytical work in his/her laboratory and shall sign all laboratory reports submitted to the Regional Board.

4. Monitoring must be conducted in accordance with the methods or test procedures contained in the most current version of 40 Code of Federal Regulations (CFR) 136, "Guidelines Establishing Test Procedures for the Analysis of Pollutants; Procedures for Detection and Quantification." If the Discharger proposes to use methods or test procedures other than those in 40 CFR 136, the exact methodology must be submitted for review and must be approved by the Regional Board prior to use.

5. Any reports presenting new analytical data is required to include the complete Laboratory Analytical Report(s). The Laboratory Analytical Report(s) must be signed by the laboratory director and contain:

   a. A complete sample analytical report.

   b. A complete laboratory QA/QC report.

   c. A discussion of the sample and QA/QC data.

   d. Specific methods of analysis.

   e. A transmittal letter that shall indicate whether or not all the analytical work was supervised by the director of the laboratory, and contain the following statement, "All analyses were conducted at a laboratory certified for such analyses by the California Department of Public Health in accordance with USEPA procedures."

6. Monitoring results must be reported on discharge monitoring report forms acceptable to the Regional Board.

7. If the Discharger monitors any pollutants more frequently than required by this MRP, using test procedures approved under 40 CFR, Part 136, or as specified in this MRP, 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.

8. 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 and copies of all reports required by this MRP, and records of all data used to complete the application for this MRP. 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 required by the Regional Board.

9. Records of monitoring information shall include the following:

   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 methods used;

f. The results of such analyses; and

g. The laboratory analytical and QA/QC reports.

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

11. The Discharger shall report all instances of noncompliance, including a discussion of any steps taken as required by Provision E.6 of Order No. R9-2009-0072, when monitoring reports are submitted to the Regional Board.

12. The monitoring reports shall be signed by an authorized person as required by Order Provision E.20.

13. 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.

14. 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.

B. EFFLUENT MONITORING

1. Samples of the final effluent shall be collected prior to discharge to the percolation/spray field bed. The Discharger is responsible for monitoring and reporting in accordance with the following criteria:

Table 1. Effluent Monitoring and Reporting

Constituent	Units	Type of Sample	Sampling Frequency[a, b]	Reporting Frequency[b]
Flow Rate	MGD	Continuous	Continuous	Semiannually
BOD_5 or $CBOD_5$ @20°C	mg/L	Grab	Quarterly	Semiannually
pH	pH Units	Grab	Quarterly	Semiannually
Total Suspended Solids	mg/L	Composite	Quarterly	Semiannually
Total Dissolved Solids	mg/L	Composite	Annually	Annually
Methylene Blue Active Substances	mg/L	Composite	Annually	Annually
Total Nitrogen	mg/L	Composite	Annually	Annually
Chloride	mg/L	Composite	Annually	Annually
Sulfate	mg/L	Composite	Annually	Annually
Fluoride	mg/L	Composite	Annually	Annually
Iron	mg/L	Composite	Annually	Annually
Manganese	mg/L	Composite	Annually	Annually
Boron	mg/L	Composite	Annually	Annually

a. The Discharger shall increase the sampling frequency from quarterly to monthly or semiannually to quarterly for any noted constituent that exceeds the limit specified by Discharge Specifications B.1 and B.2 of Order No. R9-2009-0072. The increased frequency of monitoring shall continue until the Discharger achieves compliance with the limitations for three consecutive periods. After compliance is achieved, the Discharger shall resume sampling at the specified frequency.

b. Monthly is defined as a calendar month. Quarterly is defined as a period of three consecutive calendar months beginning on January 1, April 1, July 1, or October 1. Semiannually is defined as a period of six consecutive calendar months beginning with January or July. Annually is defined as once per calendar year.

2. The Discharger shall review the monitoring results for compliance with Order No. R9-2009-0072 and submit a statement of compliance as part of the Monitoring and Reporting Program No. R9-2009-0072. The statement of compliance shall identify and report all violations of Discharge Specifications B.1 through B.3 of Order No. R9-2009-0072.

C. NUTRIENT AND SALINITY LOADING

Until a salt and nutrient management plan has been adopted for the San Pasqual HA, the Discharger shall monitor effluent disposal for compliance with Order Discharge Specification B.2 using the following parameters:

Table 2. Calculations to Ascertain Loading Rates

Parameter	Units	Sample Type	Frequency	
			Sampling	Reporting
Volume of effluent disposed	acre-feet	Continuous	Continuous	Annual
Total area of application	Acres	Observation	Annual	Annual
Nitrogen application rate[a, b]	lbs/acre/month	Calculated	Annual	Annual
Salinity application rate[c]	lbs/acre/month	Varies	Annual	Annual

a. Nitrogen application rate shall consider nutrients contained in the effluent, based on annual analytical data provided by the Discharger to the Regional Water Board.
b. Nitrogen concentrations shall be calculated and reported "as N." For example, nitrate-nitrogen = 27 mg/L of (as NO_3) shall be converted and reported as nitrate-nitrogen = 6 mg/L (as N).
c. Salinity application rate shall be calculated using the applied volume of effluent disposed, actual application area, and the most recent results for the concentration of total dissolved solids in the effluent.

D. SEWAGE SOLIDS AND SLUDGE

A record of the type, quantity, manner, and location of disposal of all solids removed in the course of sewage treatment shall be maintained by the Discharger and shall be submitted to the Regional Board annually, when applicable.

E. SPECIAL STUDIES

1. Salt and Nutrient Management Plan. The Discharger must participate in the development of a salt and nutrient management plan for the San Pasqual Hydrologic Area that is consistent with paragraph six of the Recycled Water Policy.

2. Other Special Studies. Core monitoring may include intake monitoring, effluent monitoring, receiving water monitoring, and groundwater monitoring. This Order includes core monitoring for intake, effluent, and groundwater monitoring. In addition to core monitoring requirements, the Discharger may be required to conduct additional monitoring. Special studies are intended to be short-term and designed to address specific research or management issues that are not addressed by the routine core monitoring program. The Discharger shall implement special studies as directed by this Regional Board.

F. REPORT SCHEDULE

Monitoring reports shall be submitted to the Regional Board in accordance with the following schedule:

Table 3. Reporting Schedule

Reporting Frequency	Report Period	Report Due
Annual	January - December	January 30th
Semiannual	January - June	July 30th
	July - December	January 30th

Monitoring reports shall be submitted to:

California Regional Water Quality Control Board
San Diego Region
9174 Sky Park Court, Suite 100
San Diego, CA 92123
ATTN: Groundwater Basins Branch

Ordered by:
DAVID W. GIBSON
Executive Officer

Date: December 16, 2009