

**CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
CENTRAL COAST REGION**

81 Higuera Street, Suite 200
San Luis Obispo, California 93401-5414

ORDER NO. 91-41

WASTE DISCHARGE REQUIREMENTS
FOR
LUCIA MAR UNIFIED SCHOOL DISTRICT,
LOPEZ CONTINUATION HIGH SCHOOL,
SAN LUIS OBISPO COUNTY

The California Regional Water Quality Control Board, Central Coast Region, (hereafter Board), finds:

1. Frank Honeycutt, Project Engineer, of John L Wallace & Associates, filed a Report of Waste Discharge on January 16, 1991, in accordance with Section 13260 of the California Water Code. The report was filed on behalf of Lucia Mar Unified School District for authorization to discharge domestic wastes from Lopez Continuation High School within the Arroyo Grande Valley groundwater basin. The information supports a request for discharge.
2. Lucia Mar School District (hereafter Discharger), proposes to construct and operate a wastewater treatment and disposal system located adjacent to Highway 1 on the Nipomo Mesa. The proposed facilities are shown on Attachment "A" of this Order.
3. An average of 3,600 gallons-per-day (13.5 m³/day) of treated wastewater will be discharged at this facility. The treatment facility will consist of conventional septic tanks. Waste-water will be discharged to subsurface leachfields. Design capacity is 3,600 gallons-per-day (13.5 m³/day) and will serve 225 students and faculty.
4. The discharge is limited by Basin Plan criteria for nitrogen loading. Nitrogen loading from the discharge is calculated at approximately 40 grams 1 1/2-acre/day based on an estimated 40 mg/l nitrogen in septic tank influent and 27% nitrogen removal in the septic tank.
5. The Lopez Continuation High School is located on essentially level topography consisting of sandy soils. Depth to ground water is approximately 100 feet.
6. This discharge has not previously been regulated by the Board.
7. The Water Quality Control Plan, Central Coastal Basin, (Basin Plan) was adopted by the Board on November 17, 1989. The Basin Plan incorporates statewide plans and policies by reference and contains a strategy for protecting beneficial uses of State waters.
8. Present and anticipated beneficial uses of groundwater in the vicinity of the discharge include:
 - a. Domestic and Municipal Supply;
 - b. Agricultural Supply; and,
 - c. Industrial Supply.
9. Lucia Mar Unified School District has completed an Initial Study and Negative Declaration for the project in accordance with the California Environmental Quality Act (Public Resources Code, Section 21000, et seq.) and the California Code of Regulations and determined there are no significant adverse environmental effects or that all potentially significant adverse effects

Item Nos. 16 & 17
September 4-5, 2008 Meeting
Rescission of WDR Order Nos. 91-41 and 95-56 for Lucia Mar School District, Attachment 1

can be avoided through implementation of mitigation measures. Mitigation measures to prevent nuisance and assure protection of beneficial uses of surface and ground waters will be implemented through this order.

10. Discharge of waste is a privilege, not a right, and authorization to discharge is conditional upon the discharge complying with provisions of Division 7 of the California Water Code and any more stringent effluent limitations necessary to implement water quality control plans, to protect beneficial uses, and to prevent nuisance. Compliance with this Order should assure this and mitigate any potential adverse changes in water quality due to the discharge.
11. On July 19, 1991, the Board notified the Discharger and interested agencies and persons of its intent to issue waste discharge requirements for the discharge and has provided them with a copy of the proposed Order and an opportunity to submit written views and comments.
13. After considering all comments pertaining to this discharge during a public hearing on September 13, 1991, this Order was found consistent with the above findings.

IT IS HEREBY ORDERED, pursuant to authority in Section 13263 of the California Water Code, Lucia Mar Unified School District, its agents, successors, and assigns, may discharge waste at Lopez Continuation High School, providing compliance is maintained with the following:

(Note: other prohibitions and conditions, definitions, and the method of determining compliance are contained in the attached "Standard Provisions and Reporting Requirements for Waste Discharge Requirements" dated January, 1984. Applicable paragraphs are referenced in paragraph D2 of this Order.)

A. PROHIBITIONS

1. Discharge to areas other than leachfield disposal areas shown in Attachment "A", is prohibited.
2. Discharge of any wastes including overflow, bypass, and seepage from transport, treatment, or disposal systems to adjacent drainageways or adjacent properties is prohibited.
3. Bypass of the treatment facility and discharge of un-treated or partially treated wastes directly to the leachfields is prohibited.
4. Wastewater on the soil surface of the leachfield disposal area is prohibited.

B. DISCHARGE SPECIFICATIONS

1. Daily flow averaged over each month shall not exceed 3,600 gallons (13.5 m³).

2. Effluent discharged to the leachfields shall not exceed the following limitations:

<u>Parameter</u>	<u>Units</u>	<u>Maximum</u>
Total Dissolved Solids	mg/l	Water Supply + 250*
Sodium	mg/l	Water Supply + 70*
Chloride	mg/l	Water Supply + 65*
Total Nitrogen	<u>g per ^{1/2} acre</u> day	40

*As determined from concurrent water supply monitoring and averaged over the three most recent samples.

3. Effluent discharged to the leachfields shall not have a pH less than 6.5 or greater than 8.4.
4. Surface drainage shall be excluded from the leachfield area.

C. GROUND WATER LIMITATIONS

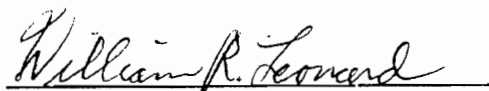
1. The discharge shall not cause a significant increase of mineral constituent concentrations in underlying ground waters, as determined by comparison of samples collected from wells located upgradient and downgradient of the disposal area.
2. The discharge shall not cause concentrations of chemicals and radionuclides in groundwater to exceed limits set forth in Title 22, Chapter 15, Articles 4, 4.5, 5 and 5.5 of the California Code of Regulations.

D. PROVISIONS

1. Discharger shall comply with "Monitoring and Reporting Program No. 91-41," as specified by the Executive Officer.
2. Discharger shall comply with all items of the attached "Standard Provisions and Reporting Requirements for Waste Discharge Requirements" dated January, 1984, except Nos. A11, A17, A24, and C16.

3. The Discharger shall conduct an investigation of potential impact to groundwater caused by this discharge. The investigation shall include identifying or installing upgradient and downgradient groundwater monitoring wells which can be used to evaluate impacts of this discharge upon groundwater in the vicinity. A technical report summarizing this investigation shall be submitted to this office by January 20, 1992. The report shall include monitoring well locations, well logs, monitoring results for those constituents listed in Monitoring and Reporting Program 91-41, and an evaluation of groundwater gradient. The report shall be certified by a registered engineer or other qualified professional.
4. Pursuant to Title 23, Chapter 3, Subchapter 9, of the California Code of Regulations, the Discharger must submit a written report to the Executive Officer not later than March 1, 1996, addressing:
 - a. Whether there will be changes in the continuity, character, location, or volume of the discharge; and,
 - b. Whether, in their opinion, there is any portion of the Order that is incorrect, obsolete, or otherwise in need of revision.

I, **WILLIAM R. LEONARD**, 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, Central Coast Region, on September 13, 1991.


Executive Officer

**CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
CENTRAL COAST REGION**

**MONITORING AND REPORTING PROGRAM NO. 91-41
FOR**

**LUCIA MAR UNIFIED SCHOOL DISTRICT,
LOPEZ CONTINUATION HIGH SCHOOL,
SAN LUIS OBISPO COUNTY**

WATER SUPPLY MONITORING

Representative samples of the water supply shall be collected and analyzed as follows:

<u>Constituent</u>	<u>Units</u>	<u>Type of Sample</u>	<u>Minimum Sampling and Analyzing Frequency</u>
Total Dissolved Solids	mg/l	Grab	Annually (April)
Sodium	mg/l	Grab	" "
Chloride	mg/l	Grab	" "

EFFLUENT MONITORING

Effluent samples shall be collected from the septic tank and analyzed as follows:

<u>Constituent</u>	<u>Units</u>	<u>Type of Sample</u>	<u>Minimum Sampling and Analyzing Frequency</u>
Daily Flow	GPD	Calculated (from water consumption)	Monthly
pH	-	Grab	Annually (April)
Total Dissolved Solids	mg/l	Grab	" "
Sodium	mg/l	Grab	" "
Chloride	mg/l	Grab	" "
Total Nitrogen	mg/l	Grab	" "
Total Nitrogen	<u>g per 1/2 acre</u> day	Calculated (from Nitrogen sample)	Annually

GROUND WATER MONITORING

Discharger shall install or locate monitoring wells upgradient and downgradient of the ponds. Discharger shall be responsible for determining direction of groundwater flow and level to determine the appropriate location and depth of upgradient and downgradient monitoring wells. Prior to the installation of monitoring wells, Discharger must submit to the Executive Officer (EO) a report discussing the proposed location and depth of the monitoring wells and the technical justification of the proposal. The monitoring wells shall meet or exceed well standards contained in the Department of Water Resources Bulletins 74-81 and 74-90. Discharger shall also comply with the monitoring well reporting provisions of Section 13750 through 13755 of the California Water Code.

Ground water samples shall be collected from representative upgradient and downgradient monitoring wells and analyzed as follows:

<u>Constituent</u>	<u>Units</u>	<u>Type of Sample</u>	<u>Minimum Sampling and Analyzing Frequency</u>
Nitrate (as N)	mg/l	Grab	Annually (April)

SEPTIC TANK MONITORING

<u>Parameter</u>	<u>Units</u>	<u>Type of Measurement</u>	<u>Minimum Inspection Frequency</u>
Sludge Depth and Scum Thickness in Each Compartment	Inches	Staff Gauge	Annually (April)
Distance Between Bottom of Scum Layer and Outlet Device	Inches	Staff Gauge	" "
Distance Between Top of Sludge Layer and Outlet Device	Inches	Staff Gauge	" "

Septic tanks shall be pumped when any one of the following conditions exist in the first compartment, or may occur before the next inspection:

- a. The combined thickness of sludge and scum exceeds one-third of the tank depth; or,
- b. The scum layer is within three inches of the outlet device; or,
- c. The sludge layer is within eight inches of the outlet device.

DISPOSAL AREA MONITORING

The disposal area shall be inspected weekly for surfacing effluent, saturated surface areas, and odors. Evidence of any condition of this nature shall be reported to the Executive Officer within 24 hours of knowing of such conditions, and promptly investigated and remedied. A record shall be kept of dates and nature of observations and remedies and of when use of individual leachfields is alternated or suspended.

REPORTING

Reports shall be submitted annually by the 20th of May and shall contain all data collected or calculated over the previous year. It shall also contain a narrative summary of any exceptions pursuant to Disposal Area Monitoring described above.

ORDERED BY William P. Leonard
Executive Officer

September 13, 1991
Date

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**CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
CENTRAL COAST REGION**

81 Higuera Street, Suite 200
San Luis Obispo, California 93401-5427

ORDER NO. 95-56

**WASTE DISCHARGE REQUIREMENTS
FOR
LUCIA MAR UNIFIED SCHOOL DISTRICT
MESA MIDDLE SCHOOL
SAN LUIS OBISPO COUNTY**

The California Regional Water Quality Control Board, Central Coast Region, (hereafter Board), finds:

1. Scott R. Lathrop, Assistant Superintendent of Business, Lucia Mar Unified School District, filed a Report of Waste Discharge on December 5, 1994, in accordance with Section 13260 of the California Water Code. The report was filed on behalf of Lucia Mar Unified School District for authorization to discharge domestic wastes from Mesa Middle School (formerly known as the Halcyon Road Elementary School) within the Arroyo Grande Valley-Nipomo Mesa Area ground water basin. The information supports a request for discharge.

flows into the beds. The required disposal area is 8,500 ft². Wastewater is discharged to subsurface leachfields. The design capacity is 6,800 gpd and currently serves 420 students and faculty. Based on the peak monthly flow rate during a one-year time period (April 1984-April 1985), the existing flow rate is 1,691 gpd.
2. Lucia Mar Unified School District (hereafter Discharger), constructed and has operated a wastewater treatment and disposal system without formal Waste Discharge Requirements since 1988. The facility is located on Halcyon Road, one-half mile west of Appaloosa Way, Arroyo Grande, California. The facility is shown on Attachment "A" of this Order.
3. The treatment system consists of conventional septic tanks, including two beds (7,000 ft² and 7,150 ft², respectively) and an 11,000 ft² reserve area. It is also equipped with a dual dosing system automatically alternating
4. The Mesa Middle School is located on relatively flat topography with a slight slope to the north. Evaluation of the soils profile indicates they are generally moderately compact, brown, silty sands. Soils are noncohesive, nonplastic, and very fine to fine grained. Percolation tests indicate the percolation rate is 11 minutes/inch. Boring tests up to 36.5 feet below ground surface (bgs) did not indicate the presence of ground water. Based on nearby water supply well data, depth to ground water is approximately 200 feet bgs.
5. The discharge is limited by Basin Plan criteria for nitrogen loading. Nitrogen loading from the discharge is calculated at approximately 40 grams per 1/2-acre per day based on an estimated 40 mg/l nitrogen in septic tank influent and discharge to the facility occurring 194 days per year (which accounts for

- regular and summer sessions 5 days per week).
6. This discharge has not previously been regulated by the Board.
 7. The Water Quality Control Plan, Central Coastal Basin, (Basin Plan) was adopted by the Board on November 17, 1989. The Basin Plan incorporates statewide plans and policies by reference and contains a strategy for protecting beneficial uses of State waters.
 8. Present and anticipated beneficial uses of groundwater in the vicinity of the discharge include:
 - a) Domestic and Municipal Supply;
 - b) Agricultural Supply; and,
 - c) Industrial Supply.
 9. The Lucia Mar Unified School District, as lead agency, completed an Initial Study and Negative Declaration for the project in accordance with the California Environmental Quality Act (Public Resources Code, Section 21000, et seq.) and the California Code of Regulations and determined the project could not have a significant effect on the environment. The Negative Declaration was approved by the Lucia Mar Unified School District's Board of Education on December 15, 1988.
 10. Discharge of waste is a privilege, not a right, and authorization to discharge is conditional upon the discharge complying with provisions of Division 7 of the California Water Code and any more stringent effluent limitations necessary to implement water quality control plans, to protect beneficial uses, and to prevent nuisance. Compliance with this Order should assume this and mitigate any potential adverse changes in

water quality due to discharge.

11. On **April 21, 1995** the Board notified the Discharger and interested agencies and persons of its intent to issue waste discharge requirements for the discharge and has provided them with a copy of the proposed Order and an opportunity to submit written views and comments.
12. After considering all comments pertaining to this discharge during a public hearing on July 14, 1995, this Order was found consistent with the above findings.

IT IS HEREBY ORDERED, pursuant to authority in Section 13263 of the California Water Code, Lucia Mar Unified School District, its agents, successors, and assigns, may discharge waste at Mesa Middle School, providing compliance is maintained with the following:

(Note: other prohibitions and conditions, definitions, and the method of determining compliance are contained in the attached "Standard Provisions and Reporting Requirements for Waste Discharge Requirements" dated January, 1984. Applicable paragraphs are referenced in paragraph D.2 of this Order.)

Throughout these requirements footnotes are listed to indicate the source of requirements specified. Requirements not referenced are based on professional judgement. Requirement footnotes are as follows:

A = California Code of Regulations, Title 22
B = Basin Plan

A. PROHIBITIONS

1. Discharge to areas other than leachfield disposal areas shown in Attachment "A", is prohibited.

2. Discharge of any wastes including overflow, bypass, and seepage from transport, treatment, or disposal systems to adjacent drainageways or adjacent properties is prohibited.
3. Bypass of the treatment facility and discharge of untreated or partially treated wastes directly to the leachfields is prohibited.
4. Wastewater on the leachfield disposal area's soil surface is prohibited.

B. DISCHARGE SPECIFICATIONS

1. Daily flow averaged over each month shall not exceed 4,857 gallons (this represents 6,800 gpd, 5 days per week).
2. Effluent discharged to the leachfields shall not exceed the following limitations:

<u>Parameter</u>	<u>Units</u>	<u>Maximum</u>
Total Dissolved Solids (TDS)	mg/l	Water Supply + 250*
Sodium	mg/l	Water Supply + 70*
Chloride	mg/l	Water Supply + 65*
Total Nitrogen	g per 1/2 acre day	40

* As determined from concurrent water supply monitoring and averaged over the three most recent samples.

3. Effluent discharged to the leachfields shall not have a pH less than 6.5 or greater than 8.4.
4. Surface drainage shall be excluded from the leachfield area.

C. GROUND WATER LIMITATIONS

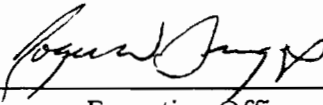
1. The discharge shall not cause a significant increase of mineral constituent concentrations in underlying ground waters, as determined by comparison of samples collected from wells located upgradient and downgradient of the disposal area.
2. The discharge shall not cause concentrations of chemicals and radionuclides in ground water to exceed limits set forth in California Code of Regulations, Title 22, Chapter 15, Articles 4, 4.5, 5 and 5.5.

D. PROVISIONS

1. Discharger shall comply with "Monitoring and Reporting Program No. 95-56," as specified by the Executive Officer.
2. Discharger shall comply with all items of the attached "Standard Provisions and Reporting Requirements for Waste Discharge Requirements" dated January, 1984, except Nos. A.11, A.17, A.24, and C.16.
3. The Discharger shall conduct an investigation of potential impact to ground water caused by this discharge. The investigation shall include identifying or installing upgradient and downgradient ground water monitoring wells to evaluate discharge impacts upon ground water in the vicinity. A technical report summarizing this investigation shall be submitted to this office by November 14, 1995. The report shall include monitoring well locations, well logs, monitoring results for those constituents listed in Monitoring and Reporting Program No. 95-56, and an evaluation of ground water gradients. The report shall be certified by a registered engineer or other qualified professional.
4. Pursuant to California Code of Regulations, Title 23, Chapter 3, Subchapter 9, the Discharger must submit a written report to the Executive Officer not later than January 14, 2000, addressing:

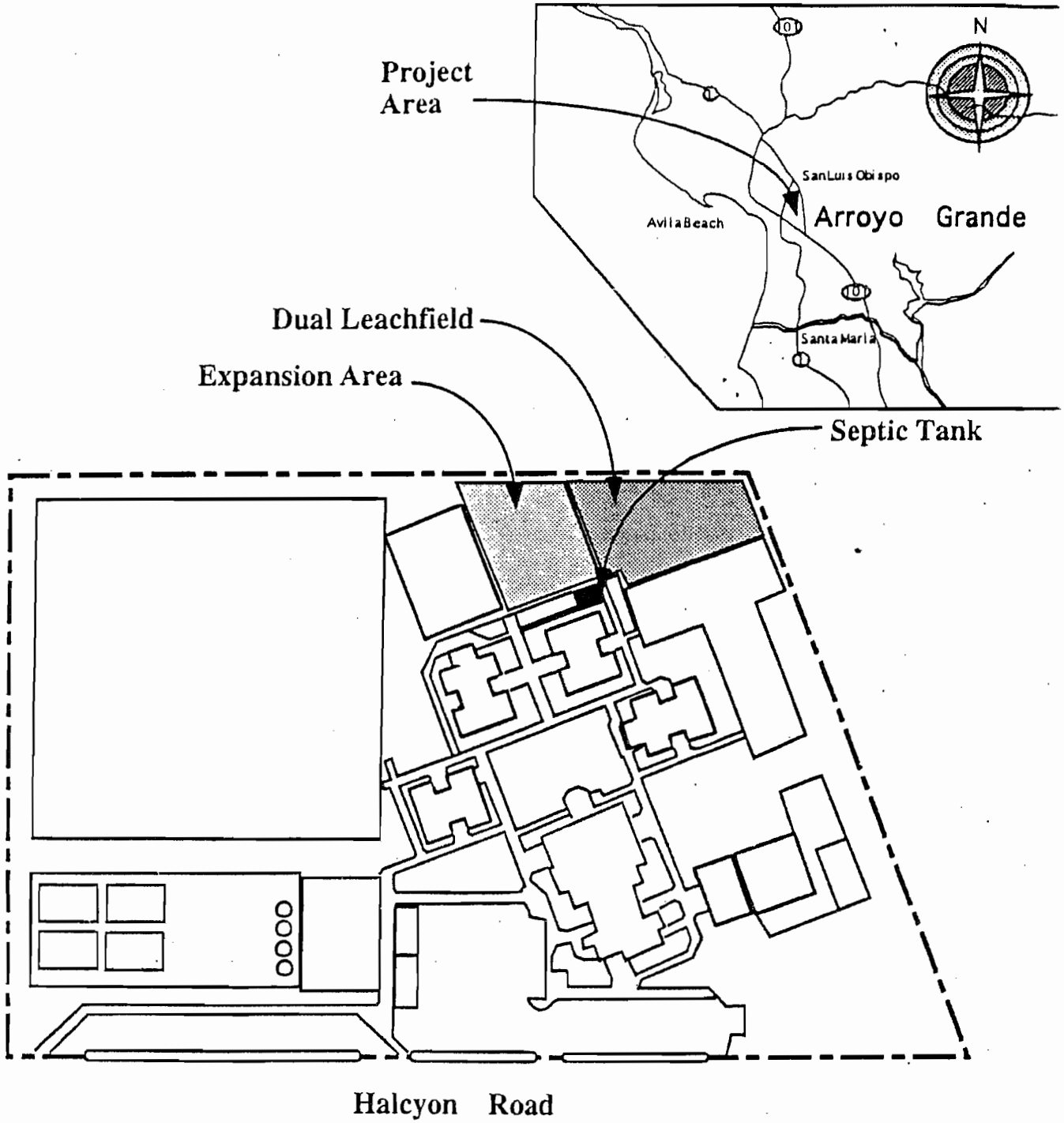
- a. Whether there will be changes in the continuity, character, location, or volume of the discharge; and,
- b. Whether, in their opinion, there is any portion of the Order that is incorrect, obsolete, or otherwise in need of revision.

I, **Roger W. Briggs, 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, Central Coast Region, on July 14, 1995.



Executive Officer

July 14, 1995



Attachment A
Mesa Middle School
Lucia Mar Unified School District
2555 Halcyon Road, Arroyo Grande, CA
Waste Discharge Requirements Order No. 95-56

**CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
CENTRAL COAST REGION**

**MONITORING AND REPORTING PROGRAM NO. 95-56
FOR
LUCIA MAR UNIFIED SCHOOL DISTRICT
MESA MIDDLE SCHOOL
SAN LUIS OBISPO COUNTY**

WATER SUPPLY MONITORING

Representative water supply samples shall be collected and analyzed as follows:

<u>Constituent</u>	<u>Units</u>	<u>Type of Sample</u>	<u>Minimum Sampling and Analyzing Frequency</u>
Total Dissolved Solids	mg/l	Grab	Annually (April)
Sodium	mg/l	Grab	" "
Chloride	mg/l	Grab	" "

EFFLUENT MONITORING

Effluent samples shall be collected from the septic tank and analyzed as follows:

<u>Constituent^B</u>	<u>Units</u>	<u>Type of Sample</u>	<u>Minimum Sampling and Analyzing Frequency</u>
Daily Flow	GPD	Calculated (from water consumption)	Monthly
pH	-	Grab	Annually (April)
Total Dissolved Solids	mg/l	Grab	" "
Sodium	mg/l	Grab	" "
Chloride	mg/l	Grab	" "
Total Nitrogen	mg/l	Grab	" "
Total Nitrogen	<u>g per 1/2 acre</u> day	Calculated (from Nitrogen sample)	Annually

GROUND WATER MONITORING

Discharger shall install or locate ground water monitoring wells upgradient and downgradient of the disposal area. Discharger shall be responsible for determining ground water flow direction and level to determine the appropriate location and depth of upgradient and downgradient monitoring wells. Prior to monitoring well installations, the Discharger must submit to the Executive Officer a report discussing the proposed monitoring well locations and depths and the proposal's technical justification. The monitoring wells shall meet or exceed well standards contained in the Department of Water Resources Bulletins 74-81 and 74-90. Discharger shall also comply with the monitoring well reporting provisions contained in California Water Code, Section 13750 through 13755.

Monitoring wells are intended to monitor the discharge effects on ground water. However, monitoring well installations may be waived if Discharger can demonstrate mitigating factors exist such that the discharge will not adversely impact ground water quality. A report discussing results of studies or investigations justifying presence of mitigating factors may be submitted to the Executive Officer for review and approval. If the Executive Officer agrees with the report's findings, ground water monitoring may be waived. These mitigating factors may include, but not be limited to, any or all of the following:

1. Depth to ground water is so great that when coupled with other factors may prevent pollutants from reaching or adversely affecting ground water quality.
2. Geologic features (i.e. soil type, permeability, presence of geological layer prohibiting migration of pollutants to ground water, etc.,).
3. Ground water has sufficient assimilative capacity due to the aquifer's magnitude.

Ground water samples shall be collected from representative upgradient and downgradient monitoring wells and analyzed as follows:

<u>Constituent</u>	<u>Units</u>	<u>Types of Sample</u>	<u>Minimum Sampling and Analyzing Frequency</u>
Nitrate (as N)	mg/l	Grab	Annually (April)

SEPTIC TANK MONITORING

<u>Parameter</u>	<u>Units</u>	<u>Type of Measurement</u>	<u>Minimum Inspection Frequency</u>
Sludge Depth and Scum Thickness in Each Compartment	Inches	Staff Gauge	Annually (April)
Distance Between Bottom of Scum Layer and Outlet Device	Inches	Staff Gauge	" "
Distance Between Top of Sludge Layer and Outlet Device	Inches	Staff Gauge	" "

Proof of annual septic tank pumping (both chambers) may be submitted in lieu of septic tank monitoring.

Septic tanks shall be pumped when any one of the following conditions exist in the first compartment, or may occur before the next inspection:

- a. The combined thickness of sludge and scum exceeds one-third of the tank depth; or,
- b. The scum layer is within three inches of the outlet device; or,
- c. The sludge layer is within eight inches of the outlet device.

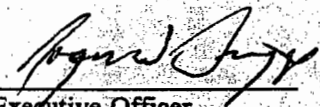
DISPOSAL AREA MONITORING

The disposal area shall be inspected weekly for surfacing effluent, saturated surface areas, and odors. Evidence of any condition of this nature shall be reported to the Executive Officer within 24 hours of knowing of such conditions, and promptly investigated and remedied. A record shall be kept of dates and nature of observations and remedies and of when use of individual leachfields is alternated or suspended.

REPORTING

Reports shall be submitted annually by the 30th of May and shall contain all data collected or calculated over the previous year. It shall also contain a narrative summary of any exceptions pursuant to Disposal Area Monitoring described above.

ORDERED BY


Executive Officer

7-14-98
Date