



SAN JOAQUIN COUNTY
ENVIRONMENTAL HEALTH DEPARTMENT
 600 East Main Street, Stockton, CA 95202-3029
Telephone: (209) 468-3420 **Fax:** (209) 464-0138 **Web:** www.sjgov.org/ehd

NITRATE LOADING STUDY REQUIREMENT CHECKLIST

SITE LOCATION:	PA #:
	REPORT DATE:

S = Sufficient
 I = Insufficient

San Joaquin County Development Title Chapter 9-1105, Section 9-1105.2

- | S | I | |
|--------------------------|--------------------------|--|
| | | 1.0 CHEMICAL AND PHYSICAL PROPERTIES OF SOIL |
| <input type="checkbox"/> | <input type="checkbox"/> | 1.1 Description of the chemical and physical properties of the soils underlying the site. |
| <input type="checkbox"/> | <input type="checkbox"/> | 1.2 Description of the mass transport properties of the soils underlying the site with respect to nitrate and/or any other constituent of concern identified for the project site. |
| | | 2.0 GROUNDWATER ANALYSIS |
| <input type="checkbox"/> | <input type="checkbox"/> | 2.1 Description of: depth to groundwater, seasonal fluctuations of groundwater depth, directional flow and gradient. |
| <input type="checkbox"/> | <input type="checkbox"/> | 2.2 Description/discussion of any existing or potential groundwater contamination issues in the general location of the site. |
| <input type="checkbox"/> | <input type="checkbox"/> | 2.3 Description of the current use of groundwater at the site and of the future expected use of groundwater as related to the proposed development project. |
| | | 3.0 SOURCES AND CALCULATED IMPACT OF NITRATE TO GROUNDWATER |
| <input type="checkbox"/> | <input type="checkbox"/> | 3.1 Description of all current off-site sources of nitrate to soil and groundwater in the general up gradient area and the contribution of nitrate load from these sources to the project site. |
| <input type="checkbox"/> | <input type="checkbox"/> | 3.2 Description of impact of rainfall contribution of nitrate load to the project site. |
| <input type="checkbox"/> | <input type="checkbox"/> | 3.3 Description of all current on-site sources of nitrate to soil and groundwater and the contribution of nitrate load from these sources to the project site. |
| <input type="checkbox"/> | <input type="checkbox"/> | 3.4 Description of all proposed future on-site sources of nitrate to soil and groundwater and the contribution of nitrate load from these sources to the project site. |
| <input type="checkbox"/> | <input type="checkbox"/> | 3.5 Calculated mass balance of nitrogen loading considering all potential sources identified. Use of Hantzch/Finnemore, or other appropriate formula/model, if applicable. |
| <input type="checkbox"/> | <input type="checkbox"/> | 3.6 Calculated impact of nitrogen loading from site project to down gradient wells, rivers, lakes etc. |
| | | 4.0 DISCUSSION OF NITRATE LOADING RESULTS RELATIVE TO PROPOSED METHOD OF WASTEWATER DISPOSAL |
| <input type="checkbox"/> | <input type="checkbox"/> | 4.1 Discussion of total nitrate impact from proposed project. |
| <input type="checkbox"/> | <input type="checkbox"/> | 4.2 Description of the methods proposed to mitigate any known or future impact to soil and groundwater from nitrate, and/or any other constituent of concern, at and/or around the project site. |
| | | 5.0 CONCLUSIONS AND RECOMMENDATIONS SECTION |
| <input type="checkbox"/> | <input type="checkbox"/> | 5.1 The report was signed, dated and stamped by a qualified environmental professional. |
| <input type="checkbox"/> | <input type="checkbox"/> | 5.2 The attachments/appendices contain sufficient documentation to support claims made in the report. |

Reviewed By: _____ Reviewed Date: _____

