


MEMORANDUM

Los Osos Community Services District
384-0011-0500



Date: June 30, 2015
To: Kathy Kivley,
General Manager, Los Osos CSD
From: Rob Miller, PE 
Subject: Sea Water Intrusion

CIVIL AND
TRANSPORTATION
ENGINEERING

CONSTRUCTION
MANAGEMENT

LANDSCAPE
ARCHITECTURE

MECHANICAL
ENGINEERING

PLANNING

PUBLIC WORKS
ADMINISTRATION

SURVEYING /
GIS SOLUTIONS

WATER RESOURCES

The attached draft memorandum has been prepared by Cleath-Harris Geologists, Inc (CHG) to summarize the results of the semi-annual deep aquifer monitoring performed in April, 2015. The next monitoring event is planned for October, 2015. Seawater intrusion continues to advance in the lower aquifer, based on water levels and increasing chloride concentrations at key wells. Average rates of intrusion since 2009 in Zone D are estimated at 200-250 feet per year, and in Zone E are estimated at 100-170 feet per year. The chloride metric continues to rise, and increased from 175 mg/l to 190 mg/l between October 2014 and April 2015. The Basin Plan target for the chloride metric is 100 mg/l.

CHG does not recommend recalculating the rate of seawater intrusion every six months, given that the level of detail is insufficient to accurately perform the calculation. For the draft April 2015 monitoring report, the line shown on the map is the extrapolated inland movement of the intrusion front at the average rate calculated between 2009 and 2014. The chloride metric helps define where we are in reaching our goal, and can be more easily calculated every 6 months.



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