



STATE OF WASHINGTON  
DEPARTMENT OF ECOLOGY

15 W Yakima Ave, Ste 200 • Yakima, WA 98902-3452 • (509) 575-2490

June 18, 2015

Santiago Communities, Inc.  
326 West Katella Avenue, Suite 4K  
Orange, CA 92867

**RE: Permit Discussion with Harms Engineering  
Community Sewer and Water District, Permit No. ST-0005529**

To Whom It May Concern:

On April 8, 2015, the State of Washington Department of Ecology (Ecology) met with Harms Engineering, Inc. (HEI) as the representative for Santiago Communities, Inc. (SCI). Both parties discussed Community Sewer and Water District (CSWD), which is owned and operated by SCI.

CSWD has been authorized to discharge treated wastewater under a State Waste Discharge Permit (ST-0005529). The permit expired on September 30, 2013 and has been administratively extended until a new permit is written.

Meeting Minutes

- Attendees:
  - Harms Engineering - Christine Batayola, and Len Harms
  - CSWD - Wes Burkhead
  - Ecology - Sanjay Barik, and Ian Laseke
- HEI discussed the current and potential occupancy of CSWD.
- Review of groundwater data and the following parameters from monitoring wells 1, 2, 3, 4, and 5:
  - Ammonia, nitrate, total Kjeldahl nitrogen, conductivity, sulfate, water depth, temperature, chloride, pH, calcium, and sodium.
- Permit limits are based on technology, water quality, or performance.
  - Groundwater water quality limits are established in WAC 173-200.

- Based on available groundwater data and State groundwater limits established in WAC 173-200, Ecology would propose the following limits for permit ST-0005529:

Parameter <sup>1</sup>	Limit	Sample Point	Frequency <sup>2</sup>
pH	6.5-8.5 s.u.	Monitoring wells 3, and 4	Monthly
Sulfate	250 mg/L	Treatment facility outfall 001	Weekly <sup>3</sup>
Sulfate	250 mg/L	MW3, MW4	Monthly
Nitrate	10 mg/L	001	Weekly
Nitrate	10 mg/L	MW3, MW4	Monthly
Chloride	250 mg/L	001	Weekly
Chloride	250 mg/L	MW3, MW4	Monthly
Total Dissolved Solids	500 mg/L	001	Weekly
Total Dissolved Solids	500 mg/L	MW3, MW4	Monthly

<sup>1</sup>The future permit will also include limits for BOD (5-day), dissolved oxygen, total coliform bacteria, total suspended solids, and pH for outfall 001.

<sup>2</sup>The Permittee may request a reduction in groundwater monitoring after a year of sampling.

<sup>3</sup>All samples performed weekly must be a 24-hr composite sample and the Permittee will install an auto-sampler.

- In addition to the parameters and compliance points listed in the table above, CSWD will continue to monitoring groundwater wells 1 and 5 (well number 2 may not represent field conditions).
- Finally, all parties discussed potential bio-engineered on-site lagoons. This system could provide an additional factor-of-safety for CSWD to stay in compliance with all applicable permit limits. Ecology stated the compliance points are the treatment facility outfall 001, and monitoring wells 3 and 4. The future engineering report should determine the hydraulic conductivity and infiltration capacity of the soils.
- A liner for the existing ponds will not be required upon the following condition: the bio-engineered ponds will receive treated effluent from outfall 001 that meets the discharge parameters in the table shown above.

#### Action Items

- HEI and SCI will provide a timeline to Ecology for engineering (planning, design, and construction).
- Ecology will review daily monitoring report groundwater data to determine what wells are associated with compliance or monitoring.

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Should you have any questions or need any additional information, please contact Ian Laseke, Facility Manager, at 509/457-7108.

Sincerely,

A handwritten signature in black ink, appearing to read 'IL', followed by a horizontal line extending to the right.

Ian Laseke, PE  
Environmental Engineer/Permit Manager  
Water Quality Program

cc: Wes Burkhead, Community Water and Sewer District  
Len Harms, Harms Engineering, Inc.  
Christine Batayola, Harms Engineering, Inc.  
Sanjay Barik, Ecology-Yakima

