

MEMO

TO: Board of Directors

FROM: Betsy Herbert, Ph.D.

SUBJECT: ENVIRONMENTAL PROGRAMS STATUS REPORT
WEEK ENDING FEBRUARY 27, 2009

DATE: February 26, 2009

RECOMMENDATION:

It is recommended that the Board of Directors review and file the Environmental Programs Status Report for the week ending February 27, 2009.

BACKGROUND:

CLIMATE CHANGE

The District's reported greenhouse gas emissions (GHGs) for 2006 and 2007 are now verified and accepted by the California Climate Action Registry, and are available for public review. See Attachments 1 and 2 to this report.

Staff is presenting a summary of how the District is addressing climate change at a February 27, 2009 public forum in Los Angeles entitled, "Climate Change and Water - Examining the scale of the problem, and environmental leadership solutions at global, national and local scales." The forum is sponsored by the Robert and Patricia Switzer Foundation, the Environmental Leadership Program and the Farmlab Public Salon Series.

SALMONID RESTORATION CONFERENCE

Staff completed conference registrations for board members for the annual Salmonid Restoration Conference, March 4-7, at the Santa Cruz Civic Auditorium.

WATERSHED PLAN

The Environmental Committee reviewed the District's Final Draft of the Existing Conditions Report at its February 19, 2009 meeting. Staff is making some minor changes to the document and will present the final draft the March 12, 2009 Environmental Committee meeting.

EDUCATION PROGRAM GRANTS

Staff scheduled a meeting on March 4, 2009 with the Education Program Advisory Commission to discuss the 2009 funding cycle of the grant program. Staff is compiling a list of potential projects, designed to address some of the data gaps identified in the Existing Conditions Report, for grant applicants to consider in their applications. These projects would not preclude an applicant's project ideas, but rather, would offer applicants additional options.

OLYMPIA WATERSHED

Volunteer acacia eradication workdays have continued on the District's Olympia watershed property. The project is overseen by staff and invasive species expert Ken Moore. Staff submitted two grant applications to the local Weed Management Agency administered by the Santa Cruz County Resource Conservation District (SCCRCD) to partially reimburse the District for work on these projects. On February 25, 2009 staff met with representatives of the US Fish & Wildlife Service, the SCCRCD, and the Land Trust of Santa Cruz County to coordinate efforts and seek funding for recovery work for sandhills habitat on the Olympia property.

WATERSHED ACADEMY

Staff is planning to attend the Watershed Academy Science Fair Poster Review Session, Monday March 2nd at San Lorenzo Valley High School Science Department. Staff attended a meeting of the Watershed Academy Advisory Committee at San Lorenzo Valley High School on February 19, 2009.

MOUNTAIN LION TRACKING PROJECT

Staff is reviewing requested documents from the Santa Cruz Mountains Mountain Lion Tracking project, sponsored by Chris Willmers, Professor, Environmental Studies, UCSC. Researchers are seeking permission to use District lands as part of their research.

WATER CONSERVATION

The District is participating in the GardenSoft Project, in partnership with other local water agencies. The project would tailor computer software that displays use of drought tolerant plants that are successfully used in this area.

Betsy Herbert, Ph.D.
Environmental Analyst

Annual Emissions Report

San Lorenzo Valley Water District

(Emissions from California operations)



Report Generated On: 02/26/2009 04:04 pm PT

13060 Highway 9

Boulder Creek, CA 95006 United States

www.slvwd.com

831-430-4627

bherbert@slvwd.com

Contact: Betsy Herbert
 Industry Type: Government – State
 NAIC Code: 2213-Water, Sewage and Other Systems
 SIC Code:

Description: The San Lorenzo Valley Water District (SLVWD) is an Independent special district supplying water to approximately 18,000 people on the Central Coast. SLVWD utilizes both surface water and ground water sources. SLVWD also owns and operates a wastewater treatment facility, serving 54 houses.

Primary Calculation Methodologies: SLV Water District used equations in the GRP 3, special emission factors for P G & E, and default factors in CARROT to report and inventory our 2006 GHG emissions.

Organizational structure disclosure: SLV Water District is a government agency and an Independent special district.

Legend

Blue = required
Orange = optional

VERIFIED EMISSIONS INFORMATION

Reporting Year: **2006**
 Reporting Scope: **CA**
 Reporting Protocol: General Reporting Protocol, Version 3.0, (April 2008)
 Reporting Boundaries: Management Control - Operational Criteria
 Baseline Year (Direct Emissions): 2007
 Baseline Year (Indirect Emissions): 2007

Direct Emissions	CO ₂ e	CO ₂	CH ₄	N ₂ O	HFCs*	PFCs*	SF ₆	Unit
Mobile Combustion	118.26	114.37	0.01	0.01	0.00	0.00	0.00	metric ton
Stationary Combustion	12.60	12.57	0.00	0.00	0.00	0.00	0.00	metric ton
Process Emissions	0.29	0.00	0.00	0.00	0.00	0.00	0.00	metric ton
Fugitive Emissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-
TOTAL DIRECT	131.16	126.95	0.01	0.01	0.00	0.00	0.00	metric ton

* HFCs and PFCs are classes of greenhouse gases that include many compounds. These columns may reflect the total emissions of multiple HFC and PFC compounds, each of which has a unique Global Warming Potential (GWP). Emissions of each gas are first multiplied by their respective GWP and then summed in the total CO₂-equivalent column.

Indirect Emissions	CO ₂ e	CO ₂	CH ₄	N ₂ O	Unit
Purchased Electricity	339.28	339.26	0.00	0.00	metric ton
Purchased Steam	0.00	0.00	0.00	0.00	-
Purchased Heating and Cooling	0.00	0.00	0.00	0.00	-
TOTAL INDIRECT	339.28	339.26	0.00	0.00	metric ton

De Minimis Emissions	CO ₂ e	CO ₂	CH ₄	N ₂ O	HFCs*	PFCs*	SF ₆	Unit
TOTAL DEMINIMIS	1.27	0.29	0.01	0.00	0.00	0.00	0.00	metric ton

Percentage of Total Inventory: 0.27 %

Annual Emissions Report

San Lorenzo Valley Water District

(Emissions from California operations)



Report Generated On: 02/26/2009 04:04 pm PT

VERIFICATION INFORMATION

Verification Body: E.H. Pechan & Associates, Inc.

Basis of Verification Opinion: Pechan will verify that SLVWD has had its annual GHG emissions report covering the period January 1, 2006 to December 31, 2006 verified according to the California Climate Action Registry's GRP Verification Protocol version 3.0. Pechan identified no material misstatements in SLVWD's CY2006 GHG reporting to the Registry. Pechan did not identify any other reporting issues that would cause non-compliance with GRP version 3.0.

Date Submitted:
2/12/09 5:14 pm

OPTIONAL INFORMATION

Information in this section is voluntarily provided by the participant for public information, but is not required and thus, not verified under California Registry protocols.

Optional Emissions	CO2e	CO2	CH4	N2O	HFCs*	PFCs*	SF6	Unit
Employee Commuting and Business Travel	35.28	34.09	0.00	0.00	0.00	0.00	0.00	metric ton
TOTAL OPTIONAL	35.28	34.09	0.00	0.00	0.00	0.00	0.00	metric ton

Emissions Efficiency metric:

Emissions Management Programs: The District's first step is to measure and identify sources of its GHGs, through the CCAR inventory process.

Emissions Reduction Projects: The District has installed solar panels at its wastewater treatment plant. The District participates in several water conservation projects to encourage its customers to conserve water; thereby conserving energy. The District is investigating water recharge projects to increase groundwater storage to better conserve energy from groundwater pumping.

Emissions Reduction Goals: The District had not yet created emissions reduction goals in 2006.

REFERENCE DOCUMENTS

Title	Author	Document Status	Publish Date
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Annual Emissions Report

San Lorenzo Valley Water District

(Emissions from California operations)



Report Generated On: 02/26/2009 03:37 pm PT

13060 Highway 9

Boulder Creek, CA 95006 United States

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bherbert@slvwd.com

Contact: Betsy Herbert

Industry Type: Government – State

NAIC Code: 2213-Water, Sewage and Other Systems

SIC Code:

Description: The San Lorenzo Valley Water District (SLVWD) is an independent special district supplying water to approximately 18,000 people on the Central Coast. SLVWD utilizes both surface water and ground water sources. SLVWD also owns and operates a wastewater treatment facility, serving 54 houses.

Primary Calculation Methodologies: SLV Water District used equations in the GRP 3, special emission factors for P G & E, and default factors in CARROT to report and inventory our 2006 GHG emissions.

Organizational structure disclosure: The San Lorenzo Valley Water District is a government agency.

Legend

Blue = required

Orange = optional

VERIFIED EMISSIONS INFORMATION

Reporting Year: **2007**
 Reporting Scope: **CA**
 Reporting Protocol: General Reporting Protocol, Version 3.0, (April 2008)
 Reporting Boundaries: Management Control - Operational Criteria
 Baseline Year (Direct Emissions): 2007
 Baseline Year (Indirect Emissions): 2007

Direct Emissions	CO2e	CO2	CH4	N2O	HFCs*	PFCs*	SF6	Unit
Mobile Combustion	128.35	126.12	0.01	0.01	0.00	0.00	0.00	metric ton
Stationary Combustion	10.25	10.24	0.00	0.00	0.00	0.00	0.00	metric ton
Process Emissions	0.29	0.00	0.00	0.00	0.00	0.00	0.00	metric ton
Fugitive Emissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-
TOTAL DIRECT	138.90	136.36	0.01	0.01	0.00	0.00	0.00	metric ton

* HFCs and PFCs are classes of greenhouse gases that include many compounds. These columns may reflect the total emissions of multiple HFC and PFC compounds, each of which has a unique Global Warming Potential (GWP). Emissions of each gas are first multiplied by their respective GWP and then summed in the total CO2-equivalent column.

Indirect Emissions	CO2e	CO2	CH4	N2O	Unit
Purchased Electricity	431.50	431.50	0.00	0.00	metric ton
Purchased Steam	0.00	0.00	0.00	0.00	-
Purchased Heating and Cooling	0.00	0.00	0.00	0.00	-
TOTAL INDIRECT	431.50	431.50	0.00	0.00	metric ton

De Minimis Emissions	CO2e	CO2	CH4	N2O	HFCs*	PFCs*	SF6	Unit
TOTAL DEMINIMIS	5.16	2.11	0.01	0.01	0.00	0.00	0.00	metric ton

Percentage of Total Inventory: 0.90 %

Annual Emissions Report

San Lorenzo Valley Water District

(Emissions from California operations)



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VERIFICATION INFORMATION

Verification Body: E.H. Pechan & Associates, Inc.

Basis of Verification Opinion: Pechan will verify that SLVWD has had its annual GHG emissions report covering the period January 1, 2007 to December 31, 2007 verified according to the California Climate Action Registry's GRP Verification Protocol version 3.0. Pechan identified no material misstatements in SLVWD's CY2007 GHG reporting to the Registry. Pechan did not identify any other reporting issues that would cause non-compliance with GRP version 3.0.

Date Submitted:
2/12/09 5:38 pm

OPTIONAL INFORMATION

Information in this section is voluntarily provided by the participant for public information, but is not required and thus, not verified under California Registry protocols.

Optional Emissions	CO2e	CO2	CH4	N2O	HFCs*	PFCs*	SF6	Unit
Employee Commuting and Business Travel	35.12	33.29	0.01	0.01	0.00	0.00	0.00	metric ton
TOTAL OPTIONAL	35.12	33.29	0.01	0.01	0.00	0.00	0.00	metric ton

Emissions Efficiency metric:

Emissions Management Programs:

The District sponsored a forum of expert speakers on the impacts of climate change on local water resources. Part of the forum addressed reduction of GHGs.

Emissions Reduction Projects:

The District participates in several water conservation projects to encourage its customers to conserve water; thereby conserving energy. The District is investigating water recharge projects to increase groundwater storage to better conserve energy from groundwater pumping. The District

Emissions Reduction Goals:

The District's Board is considering a resolution to adopt a policy to match AB 32 GHG emission reduction goals.

REFERENCE DOCUMENTS

Title	Author	Document Status	Publish Date
Final (revised) 2006-2007 CCAR GHG inventor	Stephen M. Roe	Public	02/05/2009 12:00:00AM