



INLAND EARTH SCIENCES

November 17, 2014

Project 14-07YVD

Mr. Eric Winiecki
EPA Project Coordinator
U.S. Environmental Protection Agency, Region 10
1200 Sixth Avenue, Suite 900
Seattle, WA 98101

SUBJECT: DOCKET NO. SDWA-10-2013-0080, Yakima Valley Dairies
October 2014 Monthly Progress Report

Dear Mr. Winiecki:

Please find attached the Yakima Valley Dairies Monthly Progress Report for the period October 11 to November 10, 2014, submitted on behalf of: (1) Cow Palace, LLC; (2) D & A Dairy, LLC (also known as D&A Dairy L.L.C.), George DeRuyter & Son Dairy, L.L.C., and George & Margaret, L.L.C; and (3) Liberty Dairy LLC and its associated dairy facility H&S Bosma Dairy. If you have any questions or comments, please do not hesitate to call. Thank you.

Very Truly Yours,

INLAND EARTH SCIENCES CORPORATION

Kevin M. Freeman
YVD Project Coordinator
kfreeman@inlandearth.com | (509) 981-4747 Direct

Attachments:

Monthly Progress Report, October 11 to November 10, 2014

Copies:

Adam Dolsen, Cow Palace LLC
Dan DeRuyter, George DeRuyter & Son Dairy LLC
Henry Bosma, Liberty Dairy LLC
Rene Fuentes, EPA
Jennifer MacDonald, EPA
Patrick W. Ryan, Perkins Coie LLP
Brendan V. Monahan, Stokes Lawrence Velikanje Moore & Shore

YAKIMA VALLEY DAIRIES (YVD)

Docket No. SDWA-10-2013-0080

Monthly Progress Report [per Consent Order (CO) Statement of Work (SOW) III.K.1]

Period: October 11 to November 10, 2014

Task Number	Task Title	Actions Completed During Reporting Period	Work Planned for Next 60 days	Problems Encountered/Anticipated and Solutions Developed/ Implemented
GENERAL TASKS				
1	Identify Project Coordinator (Consent Order 16. b.) and Contractor (notification of subsequent contractors must be provided to EPA 20 days prior to commencement of Work) (Consent Order 16.a.)	TASK COMPLETE		
4	Notify EPA regarding interest in participating in the public involvement	TASK COMPLETE		
PROVISION OF WATER (III.D.)				
5	Submit Residential Well Sampling QAPP (III.D.2.)	TASK COMPLETE		
6	Test each residential drinking water well within the Dairy Facilities boundary and within one mile downgradient of the Dairy Facilities (III.D.3.)	TASK COMPLETE		
7	Provide residents results of Hach test strip (III.D.4.)	TASK COMPLETE		
8	Provide preliminary results of laboratory analysis of residential drinking water well samples to EPA (III.D.4.)	TASK COMPLETE		
9	Provide validated laboratory analytical results to each resident and to EPA	TASK COMPLETE		
10	Provide reverse osmosis treatment system (or other EPA approved alternative water supply) to each owner/occupant that accepts offer for alternative water (III.D.5)	TASK COMPLETE		
11	Submit Residential Well Sampling Report	TASK COMPLETE		

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GROUNDWATER MONITORING (III.E.)				
12	Submit Groundwater Monitoring QAPP (III.E.1.)	Prepare for Fourth Quarter 2014 sampling event.	Schedule and complete Fourth Quarter (December) 2014 sampling event	
13	Submit Groundwater Monitoring Well Installation Report (III.E.2.)	Submitted Final Report on October 19, 2014.	TASK COMPLETE	
14	Report validated groundwater nitrate analytical results (III.A.3.e.(1))	Submitted Draft 3Q3014 Data Usability Reports to EPA by November 9, 2014.	Revise 4Q2013, 1Q2014, and 2Q2014 Data Usability Reports based on EPA	
15	Quarterly Groundwater Monitoring Data Reports (III.E.3.)	Prepare Draft 2Q2014 GWM Data Report. Received EPA comments to 3Q2013, 4Q2013, 1Q2014, and 2Q2014 GWM Data Reports on October 23, 2014.	Submit Draft 2Q2014 GWM Data Report to EPA by December 9, 2014. Revise 4Q2013, 1Q2014, and 2Q2014 GWM Reports based on EPA comments. Submit 3Q3013 Report by November 25, 2014. Submit 4Q2013 Report by December 9, 2014. Submit 1Q2014 Report by December 23, 2014. Submit 2Q2014 Report by January 16, 2015.	
16	Annual Groundwater Monitoring Data Report (III.E.3.)	Submitted 2013 Annual Report to EPA on May 1, 2014.	Revise 2013 Report based on EPA comments.	

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IMMEDIATE SOURCE CONTROL ACTIONS (III.F.)				
17	Submit Dairy Facility Application Field Management Plan (III.F.1.)	TASK COMPLETE		
18	Submit Dairy Facility Application Field Reports (III.A.3.e.(2))	2014 Post-Harvest Application Field sampling completed at all Respondents application fields. Analytical results received. Prepare Draft 2014 Pre-Plant Application Field Management Report based on EPA comments to 2013 Post-Harvest Application Report. Received EPA comments to 2013 Post-Harvest Application Field Management Report on November 5, 2014.	Revise 2013 Post-Harvest Application Management Report(s) based on EPA comments and submit reports by December 10, 2014. Submit Draft 2014 Pre-Plant Application Field Management Report by December 15, 2014. Prepare Draft 2014 Post-Harvest Application Management Report, including data validation activities. Revise 2014 Pre-Plant Data Usability Reports based on EPA comments.	IES is extending the submission date for the Draft 2014 Pre-Plant Application Field Management Report to allow for revision of the report based on EPA comments to the 2013 Post-Harvest Report.
19	Submit Irrigation Water Management Plan (III.F.2.)	TASK COMPLETE		
20	Implement Irrigation Water Management Plan (III.F.2.)	Completed soil field capacity (FC) sampling for all Respondents on October 29, 2014. Began installation of soil moisture sensors. Completed installation of soil moisture sensors at: Cow Palace Fields 4A, 4B, 5; Liberty Dairy Fields 3, 6, 7, 8N, 9; George DeRuyter & Son Fields 1, 2, 3, 10, 14.	Continue installation of soil moisture sensors. Begin preparation of the IWMP Installation Reports.	IES and Agrimanagement will provide a technical memorandum to EPA describing preliminary results of FC testing and presenting any issues requiring corrective actions based on the field observations following completion of the FC sampling.
21	Take action to reduce nitrate contributions from silage storage (III.F.3.)	TASK COMPLETE		
22	Take action to reduce nitrate contributions from solid separator (III.F.4)	TASK COMPLETE		

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23	Install backflow prevention system (III.F.5)	TASK COMPLETE		
24	Submit Lagoon Review Report (III.F.6.)	TASK COMPLETE		
25	Submit Lagoon Evaluation Plan (III.F.6).	Submitted Lagoon Evaluation Plan QAPPs to EPA on November 3, 2014.	Revise Lagoon Evaluation Plan QAPPs based on EPA comments.	
26	Submit Lagoon Evaluation Report and Lagoon Work Plan (III.F.6)	None	None	
27	Submit records of locations to which manure is transported off of the Dairy Facilities (III.F.7)	Provided 2013 information to EPA as part of 2013 Annual Report	Work with respondents to collect and tabulate 2014 records.	
28	Eliminate furrow irrigation (III.F.8.)	TASK COMPLETE		
29	Submit Plan for assessment of area surrounding monitoring well DC-03 (III.F.12.)	None	Based on conversation with EPA at September 30, 2014 meeting, anticipate receipt of additional EPA comments regarding DC-03 Investigation.	
REPORTING (III.K.)				
34	Monthly Progress Reports (III.K.1.)	Submitted September MPR on October 15, 2014. Prepared October MPR.	Prepare and submit November and December MPR.	
35	Annual Reports (III.K.2.)	Submitted 2013 Annual Report to EPA on May 1, 2014.	Revise Report based on EPA comments.	