



GROUNDWATER MONITORING QUALITY ASSURANCE
PROJECT PLAN ADDENDUM NO. 1
YAKAMA VALLEY DAIRIES

Prepared for

U.S. Environmental Protection Agency, Region 10

Prepared by

Anchor QEA, LLC

September 2016

GROUNDWATER MONITORING QUALITY ASSURANCE PROJECT PLAN ADDENDUM NO. 1 YAKIMA VALLEY DAIRIES

Prepared for

U.S. Environmental Protection Agency, Region 10
1200 Sixth Avenue
Seattle, Washington 98101

Prepared by

Anchor QEA, LLC
1119 Pacific Avenue, Suite 1600
Tacoma, Washington 98042

September 2016

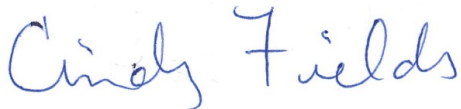
SIGNATURE PAGE

EPA Docket No. SDWA-10-2013-0080

Groundwater Monitoring Quality Assurance Project Plan Addendum No. 1



Mark Larsen
Project Coordinator, Anchor QEA, LLC



Cindy Fields
Project Chemist/QA Manager, Anchor QEA, LLC



Matt Wilson, R.G.
Field Team Leader, Anchor QEA, LLC

TABLE OF CONTENTS

1	MODIFICATIONS TO EXISTING QAPP.....	1
2	CERTIFICATIONS.....	4
2.1	Cow Palace Certification.....	4
2.2	D & A Dairy, George DeRuyter & Son Dairy, and George & Margaret, LLC Certification	5
2.3	Liberty Dairy Certification.....	6

List of Figures

Figure 1	Project Organization.....	2
----------	---------------------------	---

LIST OF ACRONYMS AND ABBREVIATIONS

Ecology	Washington State Department of Ecology
EPA	U.S. Environmental Protection Agency
PC	Project Coordinator
QAPP	Quality Assurance Project Plan

DISTRIBUTION LIST

Adam Dolsen	Cow Palace, LLC
Dan DeRuyter	George DeRuyter & Son Dairy, LLC
	D & A Dairy, LLC
	George & Margaret, LLC
Henry Bosma	Liberty Dairy, LLC
	H & S Bosma Dairy
Eric Winiecki	U.S. Environmental Protection Agency, Region 10
Rene Fuentes	U.S. Environmental Protection Agency, Region 10
Jennifer MacDonald	U.S. Environmental Protection Agency, Region 10
Patrick Ryan	Perkins Coie LLP
Brendan Monahan	Stokes Lawrence PS
Lori Terri Gregory	Foster Pepper PLLC
Mark Larsen	Anchor QEA, LLC

1 MODIFICATIONS TO EXISTING QAPP

This addendum to the Groundwater Monitoring Quality Assurance Project Plan (QAPP) was prepared to document changes to the QAPP following the assumption of responsibility of implementation of the QAPP by Anchor QEA, LLC, as of August 15, 2016. Anchor QEA will follow the existing QAPP originally developed for the Yakima Valley Dairies by ARCADIS U.S. and revised by Inland Earth Sciences with the changes and modifications described as follows.

1.1 Section 1.1, page 1

- The revised project organization and lines of authority and communication are shown graphically on Figure 1.
- The Anchor project staff are listed as follows:
 - Mark Larsen, Project Coordinator (PC), will be responsible for implementing the activities identified in the QAPP and maintaining communication with the U.S. Environmental Protection Agency (EPA) Project Coordinator to report progress and resolve issues that may arise while implementing the QAPP, if necessary. The PC has overall authority over the project team and QAPP implementation.
 - Cindy Fields, project chemist and Quality Assurance Manager, will help to develop and review project planning documents, evaluate data, and prepare deliverables.
 - Matt Wilson, the groundwater monitoring Field Team Leader/Site Safety Coordinator, will be responsible for collecting groundwater samples and implementing the QAPP and Health and Safety Plan, as well as supervising monitoring well installation activities.
- A Washington State Department of Ecology (Ecology)-certified analytical laboratory will analyze the groundwater samples for non-drinking water contaminants. A certified drinking water laboratory will analyze the groundwater samples for drinking water contaminants.

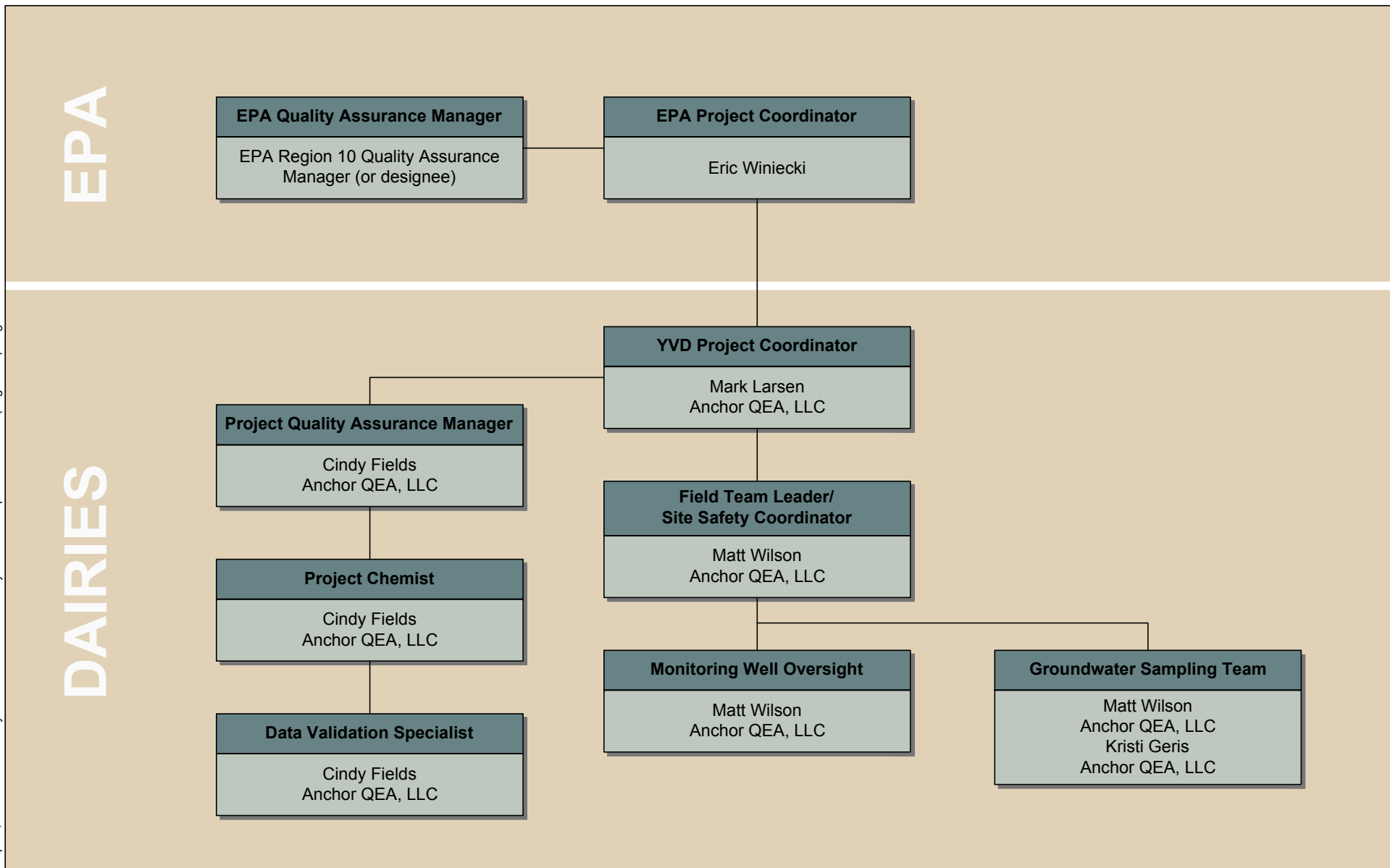


Figure 1
Project Organization
Groundwater Monitoring Quality Assurance Project Plan
Yakima Valley Dairies

1.2 Section 1.5, page 5

An analytical laboratory accredited by the State of Washington, the National Environmental Laboratory Accreditation Program, or equivalent, will analyze the groundwater samples.

1.3 Section 2.3.2, page 10

Samples collected for nitrate and nitrite analysis by EPA Method 300.0 will be delivered daily to the analytical laboratory via an overnight delivery service or hand-delivered by Anchor QEA field staff.

1.4 Section 2.7, page 12

A portable turbidimeter and a multi-parameter water quality meter equipped with a flow-through cell will be used to collect measurements during well purging.

1.5 Section 3.1, page 14

Laboratory analysis of samples collected during groundwater monitoring will be conducted by an Ecology-certified analytical laboratory. The laboratory will comply with the EPA Methods listed in Section 2.5.2. If deficiencies are noted, the laboratory will notify the PC.

1.6 Section 3.2.3, page 15

The analytical laboratory will submit sufficient laboratory documentation such that sample results are traceable to the field samples, and the analytical data can be verified and validated.

2 CERTIFICATIONS

2.1 Cow Palace Certification

I certify under the penalty of law that this document and all attachments were prepared by me or under my direction or supervision in accordance with a system designed to assure that qualified personnel gathered and evaluated the information submitted. Based on my inquiry of any and all persons directly responsible for gathering and analyzing the information obtained, I certify that the information contained in or accompanying this submittal is to the best of my knowledge and belief, true, accurate, and complete. As to those identified portion(s) of this submittal for which I cannot personally verify the accuracy, I certify that this submittal and all attachments were prepared in accordance with procedures designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those directly responsible for gathering the information, or the immediate supervisor of such person(s), the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Cow Palace, LLC

Signature

Name

Adam Dolsen

Title

Member

Date

2.2 D & A Dairy, George DeRuyter & Son Dairy, and George & Margaret, LLC Certification

I certify under the penalty of law that this document and all attachments were prepared by me or under my direction or supervision in accordance with a system designed to assure that qualified personnel gathered and evaluated the information submitted. Based on my inquiry of any and all persons directly responsible for gathering and analyzing the information obtained, I certify that the information contained in or accompanying this submittal is to the best of my knowledge and belief, true, accurate, and complete. As to those identified portion(s) of this submittal for which I cannot personally verify the accuracy, I certify that this submittal and all attachments were prepared in accordance with procedures designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those directly responsible for gathering the information, or the immediate supervisor of such person(s), the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

**D & A Dairy LLC (also known as D and A Dairy, L.L.C.),
George DeRuyter & Son Dairy, LLC, and George & Margaret, LLC**

Signature

Name

Dan DeRuyter

Title

Member

Date

2.3 Liberty Dairy Certification

I certify under the penalty of law that this document and all attachments were prepared by me or under my direction or supervision in accordance with a system designed to assure that qualified personnel gathered and evaluated the information submitted. Based on my inquiry of any and all persons directly responsible for gathering and analyzing the information obtained, I certify that the information contained in or accompanying this submittal is to the best of my knowledge and belief, true, accurate, and complete. As to those identified portion(s) of this submittal for which I cannot personally verify the accuracy, I certify that this submittal and all attachments were prepared in accordance with procedures designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those directly responsible for gathering the information, or the immediate supervisor of such person(s), the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Liberty Dairy, LLC (and its associated dairy facility H & S Bosma Dairy)

Signature

Name

Henry Bosma

Title

Partner

Date