

Avocet Environmental Testing
1500 North State Street, Suite 200
Bellingham, WA 98225
(360) 734-9033

RECEIVED

FEB 08 2010

DEPT OF ECOLOGY
BELLINGHAM FIELD OFFICE

Client
Contact Name Washington State Department of Ecology
Mak Kaufman

Chain of Custody No. 4867
P.O. # F1180

Date Sampled 02/02/10
Date Received 02/02/10
Date Reported 02/04/10

Matrix Surface Water
Test Performed Fecal Coliform Membrane Filter

Project Snyder Farm Compliance Samples

Sample Identification	Log Number	Method	Sample Result	Units	Date Analyzed	Analyst
Upstream	05786230	sm9222D	20	FC/100 mL	02/02/10	DH
Downstream	05786231	sm9222D	470,000	FC/100 mL	02/02/10	DH

Sample Site A -
upstream

Sample Site B -
downstream

Laboratory Supervisor

Avocet Environmental Testing
1500 North State Street, Suite 200
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(360) 734-9033

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FEB 17 2010

DEPT OF ECOLOGY
BELLINGHAM FIELD OFFICE



Client
Contact Name **Washington State Department of Ecology**
Mark A. "Mak" Kaufman

Chain of Custody No. 4908
P.O. # F1180

Date Sampled 02/12/10
Date Received 02/12/10
Date Reported 02/15/10

Matrix Surface Water
Test Performed Fecal Coliform Membrane Filter

Project **Snydar Farm Compliance Samples**

Sample Identification	Log Number	Method	Sample Result	Units	Date Analyzed	Analyst
Downstream	05786563	sm9222D	2,800	FC/100 mL	02/12/10	DH
Upstream	05786564	sm9222D	<3	FC/100 mL	02/12/10	DH

Sample Site A -
upstream

Sample Site B -
downstream

< = Less Than
FC = Fecal Coliform

Laboratory Supervisor

Avocet Environmental Testing
1500 North State Street, Suite 200
Bellingham, WA 98225
(360) 734-9033



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JAN 26 2011

DEPT OF ECOLOGY
BELLINGHAM FIELD OFFICE

Client
Contact Name **Washington State Department of Ecology**
 Mak Kaufman

Chain of Custody No. C14004

Date Sampled 01/21/11
Date Received 01/21/11
Date Reported 01/24/11

Matrix Surface Water
Test Performed Fecal Coliform Membrane Filter

Project Name **Snyder**
P.O. # F - 1140

Sample Identification	Log Number	Method	Sample Result	Units	Date Analyzed	Analyst
1) Flow from Field	05797805	sm9222D	170,000	FC/100 mL	01/21/11	DH

Sample Site B -
downstream

FC = Fecal Coliform

Laboratory Supervisor

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Avocet Environmental Testing
1500 North State Street, Suite 200
Bellingham, WA 98225
(360) 734-9033

JAN 11 2012

DEPT OF ECOLOGY
BELLINGHAM FIELD OFFICE



Client Washington State Department of Ecology
Contact Name Mak Kaufman
Chain of Custody No. 5765
Date Sampled 01/04/12
Date Received 01/04/12
Date Reported 01/06/12
Test Performed Fecal Coliform Membrane Filter
Project Name Snyder
P.O. # F-1180

Sample Identification	Log Number	Method	Sample Result	Units	Date Analyzed	Analyst
Snyder	05708951	sm9222D	17,000	FC/100 mL	01/04/12	DH

Sample Site B -
downstream

FC = Fecal Coliform

Emily Flannery
Laboratory Supervisor



Client Washington State Department of Ecology
Contact Name Jessica Kirkpatrick
Chain of Custody 4200

Date Sampled 03/03/14
Date Received 03/03/14
Date Reported 03/10/14

Test Performed Fecal Coliform Membrane Filter

Project Name WCWP
Matrix Water

Sample Identification	Log Number	Method	Sample Result	Units	Date Analyzed	Analyst
W. Badger 1	05735049	sm9222D	480	FC/100 mL	03/03/14	DH
Midfield Trib	05735050	sm9222D	500	FC/100 mL	03/03/14	DH
SW Corner	05735051	sm9222D	1,000	FC/100 mL	03/03/14	DH
SE Corner	05735052	sm9222D	130	FC/100 mL	03/03/14	DH
Snyder Downstream	05735053	sm9222D	17,000	FC/100 mL	03/03/14	DH
Snyder Upstream	05735054	sm9222D	680	FC/100 mL	03/03/14	DH
Snyder Aldergrove	05735055	sm9222D	38,000	FC/100 mL	03/03/14	DH

Other site -
not Snyder
farm

Sample Site A -
upstream

Sample Site C -
Aldergrove

Sample Site B -
Downstream

QUALITY CONTROL DATA

Test Performed	Growth	Result FC/100mL	Duplicate Difference
Blank	Negative	--	--
E. Coli	Positive	--	--
Enterobacter aerogenes	Negative	--	--
Fecal Coliform Sample Result	Positive	1,000	--
Lab Duplicate	Positive	1,100	10%

--: No Existing Value
FC: Fecal Coliform

Laboratory Supervisor



Client Washington State Department of Ecology

Contact Name Jessica Kirkpatrick

Chain of Custody 4200

Date Sampled 03/03/14

Date Received 03/03/14

Date Reported 03/10/14

Test Performed Fecal Coliform Membrane Filter

Project Name WCWP

Matrix Water

Sample Identification	Log Number	Sample Volume Filtered (mL)	Number of FC Colonies	Sample Result	Units
W. Badger 1	05735049	1.0, 5.0, 50	1, 24, 113	480	FC/100 mL
Midfield Trib	05735050	1.0, 5.0, 50	3, 25, 107	500	FC/100 mL
SW Corner	05735051	0.1, 1.0, 5.0, 50	3, 15, 50, TNTC	1,000	FC/100 mL
SW Corner (Lab Duplicate)	05735051	0.1, 1.0, 5.0, 50	7, 7, 55, TNTC	1,100	FC/100 mL
SE Corner	05735052	1.0, 5.0, 50	3, 6, 63	130	FC/100 mL
Snyder Downstream	05735053	0.1, 1.0, 5.0, 20	16, 171, TNTC, TNTC	17,000	FC/100 mL
Snyder Upstream	05735054	1.0, 5.0, 50	7, 34, TNTC	680	FC/100 mL
Snyder Aldergrove	05735055	0.1, 1.0, 5.0, 20	38, TNTC, TNTC, TNTC	38,000	FC/100 mL

Equations:

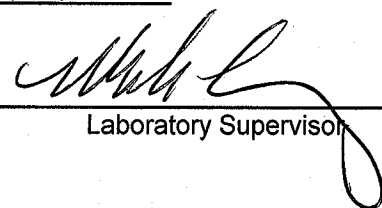
$$\text{Fecal Coliforms per 100 mL} = \frac{(\text{Fecal Coliform Colonies Counted}) \times (100)}{\text{Milliliters of Sample Filtered}}$$

If the number of colonies are outside the desired range of 20 to 60 colonies, the following equation is used.

$$\text{Fecal Coliforms per 100 mL} = \frac{(\text{Sum of Fecal Coliform Colonies Counted}) \times (100)}{\text{Sum of Milliliters of Sample Filtered}}$$

FC: Fecal Coliform

TNTC: Too Numerous To Count


Laboratory Supervisor



CHAIN OF CUSTODY

4200

**1500 N. State Street #200
Bellingham, WA 98225
(360) 734-9033 FAX (360) 734-0467
www.avocetlab.com**

CLIENT DEPARTMENT OF ECOLOGY

ADDRESS 1440 10TH STREET

CITY, STATE, ZIP BELLINGHAM, WA 98225

CONTACT **MAK KAUFMAN**
NAME

DAY PHONE (360) 715-5221 5217

FAX (360) 715-5225

BILLING NAME SAME

ADDRESS

CITY, STATE, ZIP

PROJECT NAME: WCP

P.O.#

COLLECTED BY

PHONE


[illegible]

REMARKS: Email results to: makk464@ecv.wa.gov

DATE _____ TIME _____

RELEASING SIGNATURE 1

2/21/15



RECEIVING SIGNATURE 1

3/8/4 547

RELEASING SIGNATURE 2.

DATE . . . TIME . . .

RECEIVING SIGNATURE 2

DATE	TIME
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Avocet Environmental Testing
1500 North State Street, Suite 200
Bellingham, WA 98225-4551
(360) 734-9033



Client Washington State Department of Ecology
Contact Name Chris Luerkens
Chain of Custody 7040

Date Sampled 04/17/14
Date Received 04/17/14
Date Reported 04/21/14

Test Performed Fecal Coliform Membrane Filter

Project Name Snyder Farm
P.O. # F1A80
Matrix Water

Sample Identification	Log Number	Method	Sample Result	Units	Date Analyzed	Analyst
Snyder Downstream	05736836	sm9222D	9,200	FC/100 mL	04/17/14	DH

Sample Site B -
downstream

QUALITY CONTROL DATA

Test Performed	Growth	Result FC/100mL	Duplicate Difference
Blank	Negative	--	--
E. Coli	Positive	--	--
Enterobacter aerogenes	Negative	--	--
Fecal Coliform Sample Result	Positive	9,200	--
Lab Duplicate	Positive	9,400	2%

--: No Existing Value

FC: Fecal Coliform

Laboratory Supervisor



Client Washington State Department of Ecology
Contact Name Chris Luerkens
Chain of Custody 7040

Date Sampled 04/17/14
Date Received 04/17/14
Date Reported 04/21/14

Test Performed Fecal Coliform Membrane Filter

Project Name Snyder Farm
P.O. # F1A80
Matrix Water

Sample Identification	Log Number	Sample Volume Filtered (mL)	Number of FC Colonies	Sample Result	Units
Snyder Downstream	05736836	1.0, 5.0, 50	92, TNTC, TNTC	9,200	FC/100 mL
Snyder Downstream (Lab Dup)	05736836	1.0, 5.0, 30	94, TNTC, TNTC	9,400	FC/100 mL

Equations:

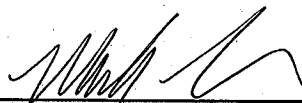
$$\text{Fecal Coliforms per 100 mL} = \frac{(\text{Fecal Coliform Colonies Counted}) \times (100)}{\text{Milliliters of Sample Filtered}}$$

If the number of colonies are outside the desired range of 20 to 60 colonies, the following equation is used.

$$\text{Fecal Coliforms per 100 mL} = \frac{(\text{Sum of Fecal Coliform Colonies Counted}) \times (100)}{\text{Sum of Milliliters of Sample Filtered}}$$

FC: Fecal Coliform

TNTC: Too Numerous To Count


Laboratory Supervisor

CHAIN OF CUSTODY

**1500 North State Street, Suite 200
Bellingham, WA 98225
(360) 734-9033 FAX (360) 734-0467
TOLL FREE 800/227-9427**

CLIENT WA Dept of Ecology

ADDRESS _____

CITY, STATE, ZIP _____

CONTACT NAME Chris Luerkens
DAY PHONE (360) 715-5220
FAX ()

BILLING INFORMATION IF DIFFERENT THAN CLIENT:

NAME _____

ADDRESS _____

CITY, STATE, ZIP _____

COLLECTED BY _____

PHONE () _____

PROJECT NAME: Snyder Farm

SAMPLE IDENTIFICATION		MATRIX	NO. OF CONTAINERS			SAMPLE DATE/TIME		PRESERVATION	ANALYSIS / METHOD REQUESTED		LOG NO. (LAB USE ONLY)	
Snyder Downstream	H ₂ O		GLASS PLASTIC OTHER	x		DATE TIME	4/17/14 12:48	<input checked="" type="checkbox"/> Ice Other:	F CMP		05736836	
			GLASS PLASTIC OTHER			DATE TIME		<input type="checkbox"/> Ice Other:				
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			GLASS PLASTIC OTHER			DATE TIME		<input type="checkbox"/> Ice Other:				

REMARKS:	RECEIVED VIA: <input checked="" type="checkbox"/> CLIENT <input type="checkbox"/> AET <input type="checkbox"/> COURIER	<input checked="" type="checkbox"/> ON ICE? <input type="checkbox"/> YES <input type="checkbox"/> NO	TEMP	8.0 °C	CUSTODY SEAL <input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A

RELEASING SIGNATURE 1.	<i>Chris Jenkins</i>	DATE	4/17/14	TIME	2:45
RECEIVING SIGNATURE 1.	<i>Kurt</i>	DATE	4/17/14	TIME	14:45

RELEASING SIGNATURE 2.	DATE	TIME
RECEIVING SIGNATURE 2.	DATE	TIME