



Client Washington State Department of Ecology

Contact Name Mak Kaufman
Chain of Custody 4200

Date Sampled 01/17/14
Date Received 01/17/14
Date Reported 01/20/14

Test Performed Fecal Coliform Membrane Filter

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

| Sample Identification | Log Number | Method | Sample Result | Units | Date Analyzed | Analyst |
|--|------------|---------|---------------|-----------|---------------|---------|
| 1) Outlet of Big Pond | 05733794 | sm9222D | 18 | FC/100 mL | 01/17/14 | DH |
| 2) Outlet of Stream Flow from North Pond | 05733795 | sm9222D | 5 | FC/100 mL | 01/17/14 | DH |
| 3) Discharge into swale adjacent to sacrifice area | 05733796 | sm9222D | 660 | FC/100 mL | 01/17/14 | DH |
| 4) Discharge into South Pond from Swale | 05733797 | sm9222D | 62 | FC/100 mL | 01/17/14 | DH |
| 5) Flow from manure pile from from outdoor area (west) | 05733798 | sm9222D | 3,100,000 | FC/100 mL | 01/17/14 | DH |
| 6) Sample from ditch next to arena | 05733799 | sm9222D | 2,700 | FC/100 mL | 01/17/14 | DH |
| 7) Flow Eaglemont Golf Course | 05733800 | sm9222D | 2 | FC/100 mL | 01/17/14 | DH |
| 8) Flow from Eaglemont Golf Course duplicate | 05733801 | sm9222D | 9 | FC/100 mL | 01/17/14 | DH |

QUALITY CONTROL DATA

| Test Performed | Growth | Result FC/100mL | Duplicate Difference |
|------------------------------|----------|-----------------|----------------------|
| Blank | Negative | -- | -- |
| E. Coli | Positive | -- | -- |
| Enterobacter aerogenes | Negative | -- | -- |
| Fecal Coliform Sample Result | Positive | 660 | -- |
| Lab Duplicate | Positive | 740 | 11% |

--: No Existing Value
FC: Fecal Coliform

Laboratory Supervisor



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4200

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Test Performed Fecal Coliform Membrane Filter

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

| Sample Identification | Log Number | Sample Volume Filtered (mL) | Number of FC Colonies | Sample Result | Units |
|--|------------|-----------------------------|-----------------------|---------------|-----------|
| 1) Outlet of Big Pond | 05733794 | 1.0, 5.0, 50 | 0, 1, 9 | 18 | FC/100 mL |
| 2) Outlet of Stream Flow from North Pond | 05733795 | 1.0, 5.0, 50 | 0, 1, 2 | 5 | FC/100 mL |
| 3) Discharge into swale adjacent to sacrifice area | 05733796 | 0.01, 0.1, 1.0, 5.0 | 0, 2, 6, 33 | 660 | FC/100 mL |
| 3) Lab Duplicate | 05733796 | 0.01, 0.1, 1.0, 5.0 | 0, 3, 7, 37 | 740 | FC/100 mL |
| 4) Discharge into South Pond from Swale | 05733797 | 0.1, 1.0, 5.0, 50 | 1, 0, 4, 31 | 62 | FC/100 mL |
| 5) Flow from manure pile from from outdoor area (west) | 05733798 | 0.001, 0.01, 0.1, 1.0 | 31, TNTC, TNTC, TNTC | 3,100,000 | FC/100 mL |
| 6) Sample from ditch next to arena | 05733799 | 0.1, 1.0, 5.0, 50 | 6, 27, 119, TNTC | 2,700 | FC/100 mL |
| 7) Flow Eaglemont Golf Course | 05733800 | 1.0, 5.0, 50 | 0, 0, 1 | 2 | FC/100 mL |
| 8) Flow from Eaglemont Golf Course duplicate | 05733801 | 1.0, 5.0, 50 | 0, 0, 5 | 9 | 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 NAME MAK KAUFMAN

DAY PHONE (360) 715-5221

FAX (360) 715-5225

BILLING NAME SAME

ADDRESS

CITY, STATE, ZIP

COLLECTED BY

PHONE

PROJECT NAME: Lana Farm

#02

F1A80

| NO. | LOCATION | DATE | GLASS | PLASTIC | OTHER | ICE | FC Bacteria | MP Filter | OS733794 |
|---|---|---------|-------|---------|-------|---|---------------------------------|----------------------|----------|
| 1 | Outlet of Big Pond | 1/17/14 | | | | ice | FC Bacteria | MP Filter | 05733794 |
| 2 | Outlet of Stream Flow from North Pond | 1/17/14 | | | | | | | 3795 |
| 3 | Discharge into swale adjacent to sacrifice area | 1/17/14 | | | | | | | 3796 |
| 4 | Discharge into South Pond from Swale | 1/17/14 | | | | | | | 3797 |
| 5 | Flow from manure pile from outdoor arena (West) | 1/17/14 | | | | | | | 3798 |
| 6 | Sample from ditch next to arena | 1/17/14 | | | | | FC Bacteria | MP Filter | 3799 |
| 7 | Flow Eaglemont Golf Course | 1/17/14 | | | | ✓ | FC Bacteria, Plastic | MP Filter | 3800 |
| 8 | Flow from Eaglemont Golf Course duplicate | 1/17/14 | | | | ice | FC Bacteria, Plastic | MP Filter | 3801 |
| | | | | | | | | | |
| | | | | | | | | | |
| REMARKS: Email results to: makk461@ecy.wa.gov | | | | | | | | | |
| REC'D VIA: CLIENT | | | | | | ON ICE? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO | | CUSTODY SEAL | |
| | | | | | | DATE: OTHER | | TEMP 4.4-6.8 °C | |

REMARKS: Email results to: makk461@ecv.wa.gov

RELEASING SIGNATURE 1.

DATE TIME

2/17/14 1341

DATE _____ TIME _____

1997

RECEIVING SIGNATURE 1.

DATE TIME

2/17/14 1341

DATE _____ TIME _____

1997