

Photo Log of Site Conditions of Marr Mink Farm's Cornell
Creek Road mink-rearing facility and Mt. Baker Highway
mink-rearing facility.

Photos taken during Ecology water quality compliance
inspections conducted on December 10, 2012; December
14, 2012 and January 7, 2013

Marr Mink Farm

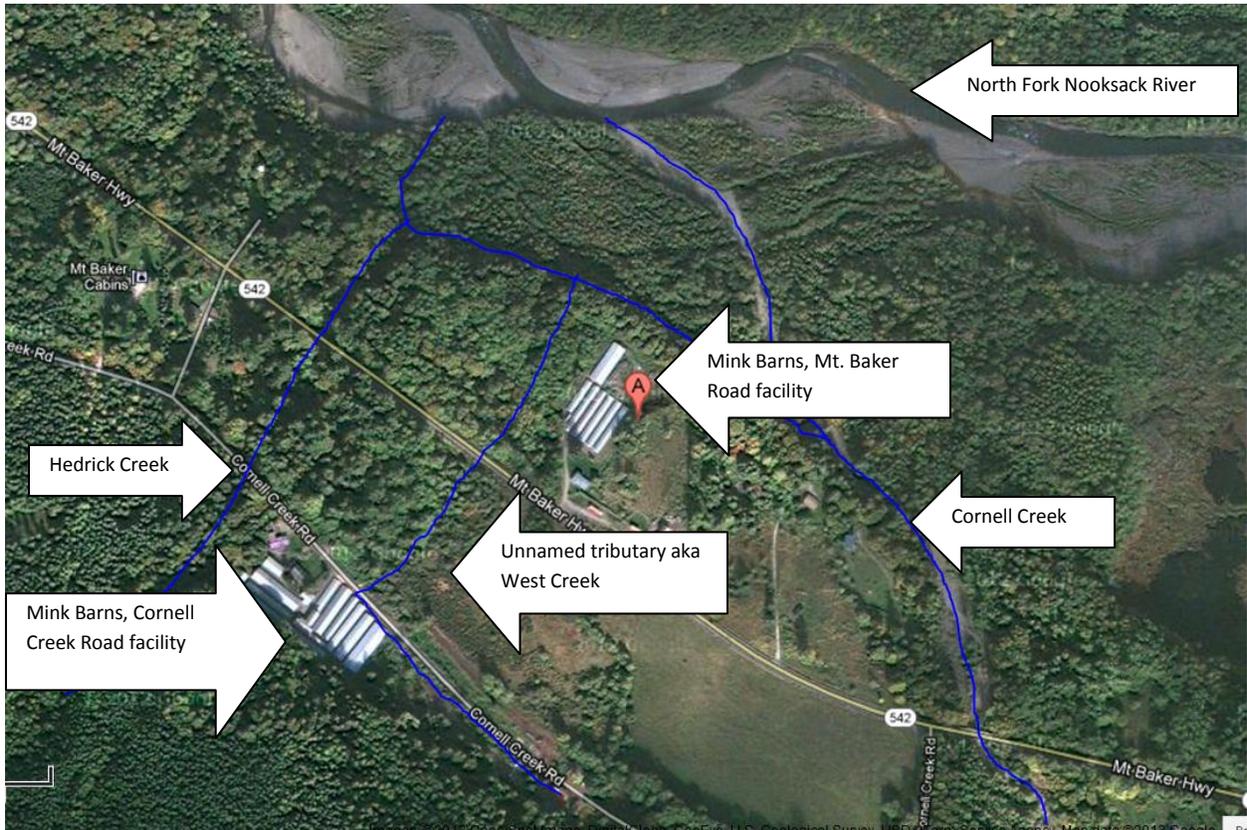


Photo 1: Google map of both mink rearing facilities in relation to Hedrick Creek, an unnamed tributary of Hedrick Creek (aka West Creek), Cornell Creek and the North Fork Nooksack River.

Marr Mink Farm



Photo 2: MS “Bing” aerial photograph of Marr Mink Farm’s Mt. Baker Road facility looking Northwest and showing location of water samples collected on December 10, 2012 (in red) and January 4, 2013 (in blue).

Marr Mink Farm

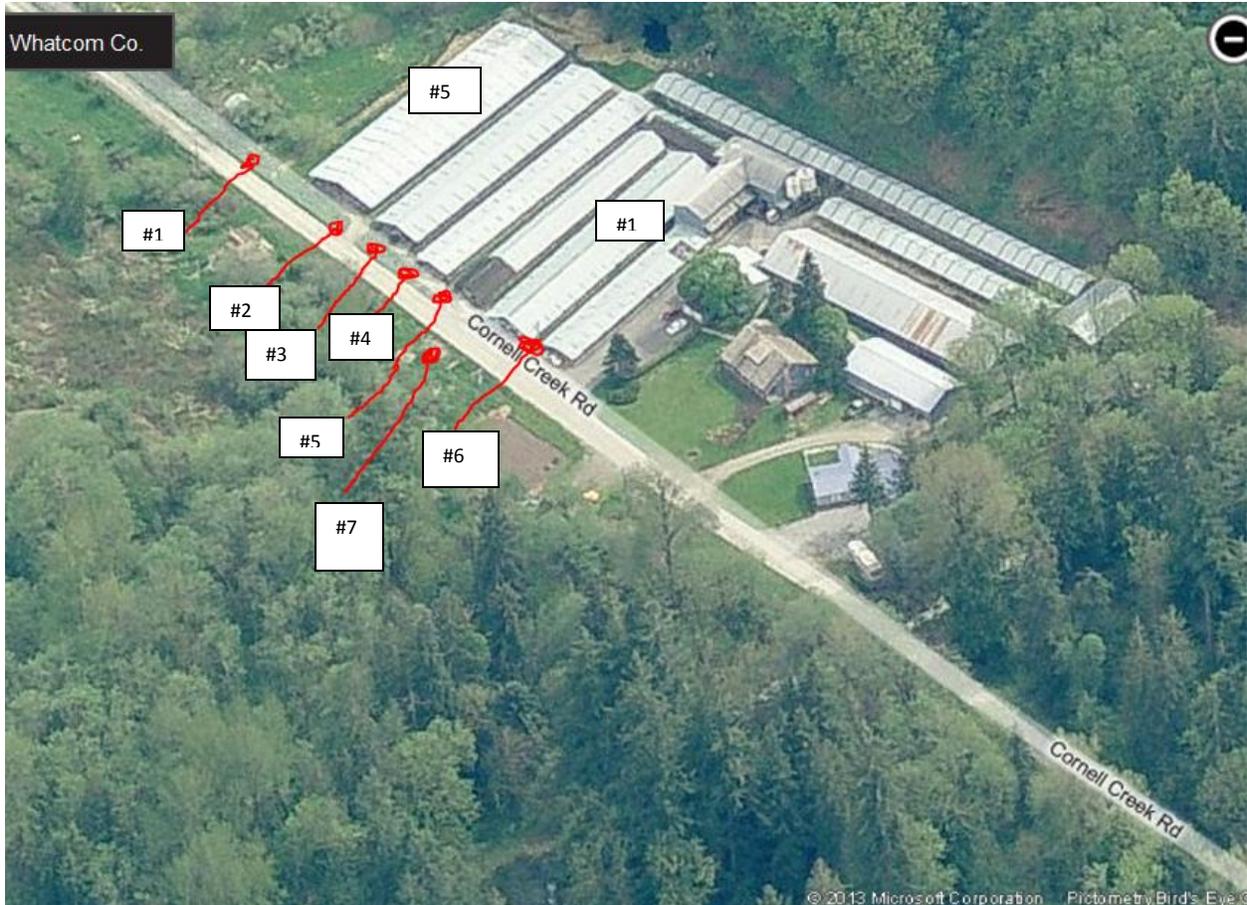


Photo 3: MS “Bing” aerial photograph of Marr Mink Farm’s Cornell Creek Road facility looking Southwest and showing locations of water samples collected on December 10, 2012. For orientation, note that mink barn# 1 is labeled as the second long building in the row of long buildings. Building # 5 is in the far southwest portion of this photograph. The first long building located northwest of #1 is for storage of sawdust and equipment.

Sample #1 upstream of the facility= 920 Colony Forming units (CFUs) /100 ml water.

Sample #2 Upstream of culvert = 820 CFUs /100 ml water

Sample #3 From contaminated area = 920 CFUs /100 ml water

Sample #4 Confluence of culverts = 760 CFUs /100 ml water

Sample #5 Between barns 3-4 = 1,800 CFUs /100 ml water

Sample #6 From sump in front of Barn #1 = 120,000 CFUs /100 ml water

Sample #7 From Creek downstream of farm = 900 CFUs /100 ml water

Marr Mink Farm

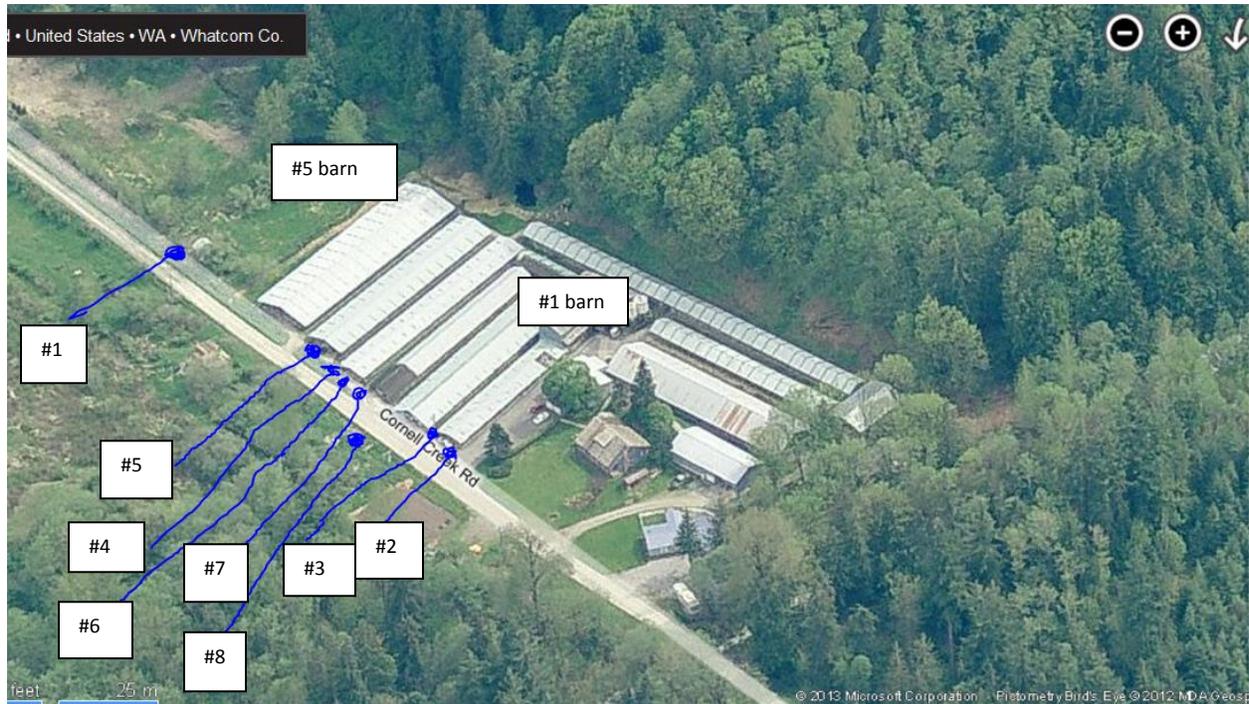


Photo 4: MS “Bing” aerial photograph of Marr Mink Farm’s Cornell Creek Road facility looking Southwest and showing locations of water samples collected on January 7, 2013. For orientation, note that mink barn# 1 is labeled as the second long building in the row of long buildings. Building # 5 is in the far southwest portion of this photograph. The first long building located northwest of #1 is for storage of sawdust and equipment. It was raining extremely hard on January 7, 2013.

Sample #1 upstream of the facility= 5,000 CFUs/100 ml water.

Sample #2 Stormwater flowing from the parking lot = 4,200 CFUs /100 ml water

Sample #3 From sump at barn 1 = 2,400 CFUs /100 ml water

Sample #4 Sump between #4 and #4 barns = 6,000 CFUs /100 ml water

Sample #5 Contaminated area near Barn #4 = 2,100 CFUs /100 ml water

Sample #6 Confluence of east and west culverts = 1,900 CFUs /100 ml water

Sample #7 From Creek downstream of farm = 2,600 CFUs /100 ml water

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Photo 5: Marr Mink Farm facility on Cornell Creek Road. View looking southwest from Cornell Creek Road. Note: overflowing bucket of manure contaminated mink food at end of stainless steel trough.

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Photo 6: Same bucket depicted in photo 2 showing stainless steel watering trough and bucket overflowing with mink food waste contaminated with manure. Additionally, note the leachate trail flowing toward piping that conveys the contamination to the south Cornell Creek Road ditch.

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Photo 7: Further magnified photo depicting contaminated wastes overflowing with mink manure in background and lip of stainless steel trough. This lack of maintenance in one of the sources of contamination and allowing this waste to flow into state waters constitutes violation of RCW 90.48.080 for not preventing discharges and violation of RCW 90.48.010 for not implementing AKART to prevent and control pollution of state waters.



Photo 8: Depicts contaminated leachate trail flowing into pipes that flow convey flow to the South Cornell Creek Road ditch (state waters). Smaller pipe in right field of photo is of unknown origin and needs to be tested.



Photo 9: Photo stainless steel trough and black “poly-pipe” sued for nipple watering system. Boards in foreground are covering a sump that had “milk-colored” water. Sample from this sump that was analyzed for fecal coliform bacteria came back from the laboratory at 120,000 CFUs per 100 ml water. The state standard is 200 CFUs per 100ml water. Mr. Marr admitted later that his kitchen sink was plumbed into this sump. When we returned on January 7, 2013, Mr. Marr stated that the sink had been disconnected from this sump and was no longer contributing to the contaminated discharges.



Photo 10: Photo showing “milk colored” water depicted in Photo 10. Sample collected from this sump which was analyzed for fecal coliform bacteria came back from the laboratory at 120,000 CFUs per 100 ml water. The state standard is 200 CFUs per 100ml water. Mr. Marr admitted later that his kitchen sink was plumbed into this sump. When we returned on January 7, 2013, Mr. Marr stated that the sink had been disconnected from this sump and was no longer contributing to the contaminated discharges. The sample collected on January 7, 2013 came back from the lab at 2,400CFUs per 100 ml water showing a vast reduction.

Marr Mink Farm



Photo 11: Photo showing water with blue-green algae bloom in the middle of December. This is another indication of long-term contamination with high nutrient loading. Photo also shows how close to the stream these barns have been sited.



Photo 12: Photo showing leachate path with an active discharge that was occurring at the time of the compliance inspection. Contaminated discharge is from overflowing bucket directly into the South Cornell Creek Road ditch (aka West Creek)



Photo 14: Shows leachate collection system Mr. Marr had installed in two of his barns. This was marginally functional, but Mr. Marr stated that he could not afford to install this in all of his mink barns.

Marr Mink Farm



Photo15: Photo shows water puddles with blue-green algae bloom in middle of December at Marr Mink Farm's Mt. Baker Road facility. This water flows around this barn and through a vastly undersized "de-facto" swale before flowing off of Mr. Marr's property and onto the property he deeded to Whatcom Land Trust in lieu of paying the \$24,000 Notice of Penalty Ecology issued for almost identical discharges into state waters. This property exchange was accepted as an "innovative settlement" for the previous discharges and was supposed to be protected into perpetuity.



Photo 16: Photo shows bacterial mat flowing with active flow from the area depicted in Photo 16. Note the vastly undersized an overwhelmed vegetated swale and more of the blue-green algal bloom.



Photo 17: Photo showing active contaminated flow at time of inspection. Note bacterial mat in bottom of channel. A water sample collected on December 10, 2012 from this flow was analyzed for fecal coliform bacterial concentration and came back from the laboratory at 24,000 CFUs per 100 ml water. A second sample was collected during the compliance inspection conducted on January 7, 2013 came back from the laboratory at 4,500 CFUs/100 ml water. Both samples exceed state water quality standards and constitute violation of RCW 90.48.080.

Marr Mink Farm

Figure 1: Lab results from a certified, independent, third party laboratory of samples collected during a water quality compliance inspection conducted on December 10, 2012.

Avocet Environmental Testing
 1500 North State Street, Suite 200
 Bellingham, WA 98225-4551
 (360) 734-9053



DEC 17 2012
 DEPT OF ECOLOGY
 BELLINGHAM FIELD OFFICE

Client Washington State Department of Ecology
Contact Name Mak Kaufman
Chain of Custody 4200
Date Sampled 12/10/12
Date Received 12/10/12
Date Reported 12/13/12
Test Performed Fecal Coliform Membrane Filter
Project Name Marr Mink Farm
P.O. # F94AG

Sample Identification	Log Number	Method	Sample Result	Units	Date Analyzed	Analyst
0) Discharge from Mt. Baker Hy Facility	05720511	sm9222D	24,000	FC/100 mL	12/10/12	DH
1) Upstream of Cornell Creek Rd Facility	05720512	sm9222D	920	FC/100 mL	12/10/12	DH
2) Upstream of culvert	05720513	sm9222D	820	FC/100 mL	12/10/12	DH
3) From contaminated area	05720514	sm9222D	920	FC/100 mL	12/10/12	DH
4) Confluence of culverts	05720515	sm9222D	760	FC/100 mL	12/10/12	DH
5) Between Bams #3 & #4	05720516	sm9222D	1,800	FC/100 mL	12/10/12	DH
6) From sump with milky color	05720517	sm9222D	120,000	FC/100 mL	12/10/12	DH
7) From creek downstream of farm	05720518	sm9222D	900	FC/100 mL	12/10/12	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	920	--
Lab Duplicate	Positive	840	8%

--: No Existing Value
 FC: Fecal Coliform

Angela Wagner
 Laboratory Supervisor

Marr Mink Farm

Figure 2: Lab results from a certified, independent, third party laboratory of samples collected during a water quality compliance inspection conducted on January 7, 2012.

Avocet Environmental Testing
 1300 North State Street, Suite 300
 Bellingham, WA 98225-4551
 (360) 734-0033



Client Washington State Department of Ecology
Contact Name Mak Kaufman
Chain of Custody 4200
Date Sampled 01/07/13
Date Received 01/07/13
Date Reported 01/09/13

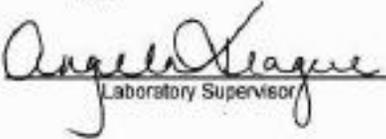
Test Performed Fecal Coliform Membrane Filter
Project Name Marr Mink Farm
P.O. # F94AG

Sample Identification	Log Number	Method	Sample Result	Units	Date Analyzed	Analyst
0) Flow from Mt. Baker Road Facility	05721304	sm9222D	4,500	FC/100 mL	01/07/13	DH
1) Upstream of Cornell Cr Facility	05721305	sm9222D	6,000	FC/100 mL	01/07/13	DH
2) SW flow from driveway	05721306	sm9222D	4,200	FC/100 mL	01/07/13	DH
3) Sump	05721307	sm9222D	2,400	FC/100 mL	01/07/13	DH
4) Sump between #3 & #4 Barns	05721308	sm9222D	6,000	FC/100 mL	01/07/13	DH
5) Contaminated area #4 Barn	05721309	sm9222D	2,100	FC/100 mL	01/07/13	DH
6) Confluence of East & West	05721310	sm9222D	1,900	FC/100 mL	01/07/13	DH
7) Contaminated area #3 Barn	05721311	sm9222D	2,500	FC/100 mL	01/07/13	DH
8) West Creek downstream of Mink Farm	05721312	sm9222D	2,600	FC/100 mL	01/07/13	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	4,500	--
Lab Duplicate	Positive	3,900	14%

--: No Existing Value
 FC: Fecal Coliform


 Angela League
 Laboratory Supervisor