



July 26, 2016

VIA EMAIL & REGISTERED MAIL

AlfMarg@Telus.net

Canyon Road Farms Ltd.
3888 Canyon Road
Armstrong, BC
VOE 1B4

Attention: Alfred John Giesbrecht,

On May 12, 2016, a Pollution Abatement Order (Order), was made under section 83 of the *Environmental Management Act*, issued to Canyon Road Farms Ltd. pertaining to the abatement of agricultural waste into the environment.

Ministry staff inspected your facility on Tuesday, July 12, 2016 to verify that the requirements in the Order have been met. A copy of the draft inspection report (final report attached) was provided to you on July 18 for review and comment. No comments were received by the ministry.

At this time, I am instructing Canyon Road Farms Ltd. that the Order is no longer in effect and confirming that Canyon Road Farms Ltd. has no further obligations under the Order.

Please contact the undersigned if you have any questions.

Yours truly,

Christa Zacharias-Homer
Deputy Director



Ministry of Environment Inspection Record

Environmental
Protection
Division

| | | | |
|---|--|---|--|
| Inspection Number: 28629 | | Inspection Status: FINAL | |
| EP System: <u>AMS</u> | | Inspection Date: 2016-07-12 | |
| EP System Number: 108369 | | EP System Status: <u>Active</u> | |
| Region: <u>Okanagan</u> | | Office: <u>Penticton</u> | |
| Trigger: <u>Planned</u> | | Incidents of Non-Compliance Observed: <u>No</u> | |
| Non-Compliance Decision Matrix Level: <u>Level 0</u> | | Non-Compliance Decision Matrix Category: <u>Category 0</u> | |
| Inspector Name(s): Devan Oldfield | | CPIX: <u>0 to 1 = Low</u> | |
| Audit: <u>AMS PAO#108369</u> | | Total Non-Compliance(s): <u>0</u> | |
| Regulated Party: Canyon Road Farms | | | |
| Regulated Party Contact(s): Alfred Giesbrecht | | | |
| Legal Address: 3888 Canyon Road Armstrong, BC V0E 1B4 | | | |
| Phone No: 250 546 8193 | | Fax No: | |
| Contact Email: <u>alfmarj@telus.net</u> | | | |
| Location Description or Site Address: 3888 Canyon Road Armstrong, BC | | | |
| Latitude: 50.521487 N | | Longitude: 119.193078 W | |
| Receiving Environment(s): <u>Groundwater & Land</u> | | | |

Summary

| MONITORING AND REPORTING REQUIREMENTS | | | | | |
|--|--|----------------------|-----|-----------------------------------|-----|
| Inspection Period: | | | | | |
| From: 2016-07-12 | | To: 2016-07-12 | | | |
| Requirement Source: | | | | | |
| Pollution Abatement Order | | | | | |
| Activity: On Site | | Waste Type: Effluent | | | |
| Inspection Summary: <p>On May 12, 2016, a Pollution Abatement Order (PAO) was issued to Canyon Road Farms Ltd., as a result of increasing nitrogen levels in the local aquifer (aquifer 103) which is used to provide drinking water to residents in the Hullcar Valley.</p> <p>On July 12, 2016, Canyon Road Farms Ltd., a poultry producer in Armstrong, BC was inspected by Environmental Protection Officers Devan Oldfield, Compliance Section and Deputy Director Christa Zacharias-Homer, Environmental Protection Division. The inspection was conducted to verify compliance with requirements placed in the PAO.</p> <p>The onsite inspection included two well locations, three manure storage pads, property lines, a compost pile and drainage pathways. A "Farm Book", submitted as a requirement under the PAO was also reviewed as part of the inspection.</p> <p>During the inspection, the farm was no longer producing poultry and no manure was present. The owners are planning on selling the farm and do not intend on operating again at this location.</p> <p>A small compost pile, approximately 4 cubic metres in size, was observed next to a household sized garden. The compost pile contained a small portion of chicken manure (scrapings from previous storage area cleanings) along with woodchips, kitchen compost and yard trimmings. This small compost pile was not considered as a part of the inspection due to its size, the percentage of agricultural waste it contained and its intended purpose (to be used on the small garden).</p> | | | | Response: <u>Notice</u> | |
| ACTIONS REQUIRED BY REGULATED PARTY: | | | | | |
| <div style="border: 1px solid black; height: 60px;"></div> | | | | | |
| ADDITIONAL COMMENTS: | | | | | |
| <p>If the farm is to become operational in the future;</p> <ul style="list-style-type: none"> - covers for the manure storage pads will need to be utilized. A weighted down impermeable tarp over the pile would be sufficient. - the drainage issue created by the placement of a culvert beneath the road to the south of the property would need to be addressed to prevent runoff from flowing within 15m of the manure storage pads. | | | | | |
| Compliance Summary | | In | Out | N/A | N/D |
| | | | | | |

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|------------|---|---|---|---|
| Discharge | 3 | 0 | 0 | 0 |
| Operations | 4 | 0 | 3 | 0 |
| Reporting | 2 | 0 | 1 | 0 |

Inspection Details

Requirement Type: Reporting

Requirement Description:

1

Retain a Qualified Professional to prepare a report (the "Farm Book") for the 2016 calendar year which includes at a minimum the following information :

- i) a list of all fields that are or are reasonably anticipated to form part of the Lands (including proposed leased or licenced fields) and utilized for farm operations or outdoor animal feeding areas during 2016;
- ii) the storage capacity needed to store all manure produced by agricultural operations on the Lands during 2016 until it can be applied to the Lands in accordance with the rates and timing of application determined under section 11 of this order and the length of time the manure needs to be stored;
- iii) types and quantities of manure and/or inorganic fertilizer used and planned to be used on the Lands in 2016 and a description of how it is/ will be utilized, including amounts of different types applied or planned to be applied during different stages for which there are specific use patterns;
- iv) all manure management systems utilized and planned to be utilized during 2016 for farm operations on the Lands including descriptions of temporary and permanent manure storage facilities/ field storage areas;

Details/Findings:

- i) The Farm book included a detailed Site Plan depicting all of the lands used for the farming operation.
- ii) The storage capacity is sufficient to store all manure produced. This is based on an approx. 60 cubic metres of litter (manure and bedding) generated per barn per cycle, requiring 64 square metres storage pad. Currently, the storage pads are approx. 120 square metres.
- iii) No manure or organic fertilizers will be used on the farms land in 2016 as the farm is no longer in operation.
- iv) The Farm identifies the manure storage facilities. As the farm is no longer operating, no manure will be generated until such time as the farm is sold.

Compliance: In

Requirement Type: Reporting

Requirement Description:

1 continued_

- v) dates and rates of manure spreading completed during and planned for 2016 (may include work sheets used to calculate agronomically-correct manure and other nutrient sources application rates);
- vi) crops (to be) planted in 2016;
- vii) drainage management measures undertaken or planned to be undertaken in 2016; and,
- viii) a map of the Lands and nearby surrounding lands as of July 31, 2016, identifying all fields (owned or leased) utilized for farm operations including outdoor animal feeding areas; identifying the locations of manure storage facilities/ field storage areas, animal feeding areas, drinking water well(s), industrial well(s), surface water intakes, and any other relevant water work(s); and, identifying all setbacks (i.e. minimum distances) between such facilities or areas and wells or relevant water works.

Details/Findings:

- v) Historically, all manure has been removed from the farm and was never spread on the fields. As the farm is no longer operating, no manure will be generated until such time as the farm is sold.
- vi) No crops will be planted. Farm lands are currently planted to agronomic grasses which are not

fertilized or harvested.

vii) A culvert has been placed beneath the municipal roadway along the southern property line. This culvert directs ditch water, and runoff from the fields to the south across the farm lands, within 0.5 metres from the manure storage pads. As no manure is expected to be generated, since the farm is no longer operational, this drainage issue has been noted, but does not put the owner out of compliance.

viii) Detailed location and site plans have been provided.

Compliance: In

Requirement Type: Reporting

Requirement Description:

2

Retain a Qualified Professional to prepare a 2017 Farm Book which includes at a minimum the information required by section 1 of this order to be included in the 2016 Farm Book, but for the 2017 calendar year.

The 2017 Farm Book must be provided to the Director by January 30, 2017. Subsequent updates to the 2017 Farm Book indicating any changes to the required information must be provided to the Director by April, 30 2017; July 31, 2017; and, October 30, 2017.

Details/Findings:

As the Farm is no longer operating and will not be operational until such time as it is sold, this requirement does not apply,

Compliance: Not Applicable

Requirement Type: Reporting

Requirement Description:

3

Publicly post the Farm Books and subsequent updates required by this order, including physically posting the Farm Books and subsequent updates at the Hullcar Community Hall, on the same day the respective Farm Book or update is required to be provided to the Director.

Details/Findings:

Compliance:

Requirement Type: Operations

Requirement Description:

4

Retain a Qualified Professional to identify drainage management measures necessary to effectively control runoff and to ensure that solids, leachate, contaminated runoff and drift from sprayed materials do not enter watercourses or any source of water for irrigation or drinking purposes or leave the property. Implement drainage management measures identified by the Qualified Professional by July 31, 2016.

Details/Findings:

A culvert has been placed beneath the municipal roadway along the southern property line (See photo 4). This culvert directs ditch water, and runoff from the fields to the south across Canyon Road Farm lands, within 0.5 metre from the manure storage pads. As no manure is expected to be generated, since the farm is no longer operational, this drainage issue has been noted, but does not put the owner out of compliance.

No other drainage management issues were identified.

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|---|
| Compliance: <u>In</u> |
| Requirement Type: <u>Operations</u> |
| Requirement Description: 5 <p>By June 30, 2016 establish functional manure storage facilities, which have, at a minimum, the storage capacity identified in the Farm Book necessary to store all manure produced by your agricultural operation, for the length of time necessary to allow for storage of such manure in accordance with this order until it can be applied to the Lands in accordance with the rates and timing of application determine under section 11 of this order.</p> |
| Details/Findings: <p>The manure storage facilities provide sufficient storage capacity to store all the manure produced at the facility during the time of inspection. As the farm was no longer in operation and there was no intention to continue operating by the current owners, there was no need to consult the farm book to determine compliance with this requirement.</p> <p>If the farm is sold and begins operating again: The storage capacity is sufficient to store all manure produced by the operation. This is based on an approx. 60 cubic metres of litter (manure and bedding) generated per barn per cycle (15,000 birds per barn), requiring 64 square metres storage pad. Currently, the storage pads are approx. 120 square metres.</p> |
| Compliance: <u>In</u> |
| Requirement Type: <u>Operations</u> |
| Requirement Description: 6 <p>By June 30, 2016 ensure all permanent manure storage facilities have a minimum setback of:</p> <ul style="list-style-type: none"> i) 30 meters from any source of water used for domestic purposes including drinking water well or surface water intake; ii) 15 meters from the high water mark of all watercourses; and iii) 4.5 meters from all property lines. |
| Details/Findings: <ul style="list-style-type: none"> i) The storage facilities were more than 30m from the closest drinking water well or surface intake. ii) The owner had completed a culvert under the adjacent municipal road which directed excess ditch water during times of extreme runoff, to flow past the manure storage areas, within 15m. The purpose of the culvert was to avoid having the road surface washed away. The land owner informed me that the extreme runoff may occur as infrequently as once in 5 years. As the farm is no longer operational and not generating manure, this does not place the farm out of compliance, however if the farm is to be operated again, then the drainage management would have to be re-evaluated to ensure that all watercourses (including ditches and culverts) are more than 15m from the manure storage facilities. iii) The storage facilities were more than 4.5m from any property lines. |
| Compliance: <u>In</u> |
| Requirement Type: <u>Operations</u> |
| Requirement Description: 7 <p>By June 30, 2016 ensure all manure field storage areas are not located:</p> <ul style="list-style-type: none"> i) on areas having standing water, ii) on saturated soils, or iii) on low-lying areas in fields prone to seasonal flooding. |
| Details/Findings: |

As the farm is not operational and will not be until such time as it is sold to another operator, there was no manure field storage. Previous practices did not include field storage as all manure was removed from site within 2-3 days of barn cleanout.

Previous field stored manure has been removed and will no longer be generated. See photo 2.

Compliance: Not Applicable

Requirement Type: Operations

Requirement Description:

8

By June 30, 2016 ensure all manure field storage areas have a minimum setback of:

- i) 30 meters from any source used for domestic purposes including a drinking water well or surface water intake,
- ii) 30 meters from the high water mark of all watercourses, and
- iii) 4.5 meters from all property lines.

Details/Findings:

There was no manure field storage since the farm is not operational and will not be until such time as it is sold to another operator. There was no manure onsite. Previous practices did not include field storage as all manure was removed from site within 2-3 days of barn cleanout.

Previous field stored manure has been removed and will no longer be generated. See photo 2.

Compliance: Not Applicable

Requirement Type: Operations

Requirement Description:

9

By June 30, 2016 ensure all manure field storage areas are:

- i) covered,
- ii) located on a base of low permeability soil (hydraulic conductivity of 10^{-6}), e.g., layer of clay, or on an impermeable liner;
- iii) established such that any leachate must be collected and contained, and
- iv) established and located such that storm or rain water flowing along the surface of any berms or other works constructed is diverted from entering the field's stored manure pile(s).

Details/Findings:

There was no manure field storage since the farm is not operational and will not be until such time as it is sold to another operator. There was no manure onsite. Previous practices did not include field storage as all manure was removed from site within 2-3 days of barn cleanout.

Previous field stored manure has been removed and will no longer be generated. See photo 2.

Compliance: Not Applicable

Requirement Type: Operations

Requirement Description:

10

By June 30, 2016, ensure that no manure and/or manure effluent is stored in sites other than storage facilities or field storage areas.

Details/Findings:

There was no manure field storage since the farm is not operational and will not be until such time as it is sold to another operator. There was no manure onsite. Previous practices did not include field

storage as all manure was removed from site within 2-3 days of barn cleanout.

Previous field stored manure has been removed and will no longer be generated. See photo 2.

Compliance: In

Requirement Type: Discharge

Requirement Description:

11

Prior to any manure and/or inorganic fertilizer application to fields, retain a Qualified Professional to determine agronomically-correct rates of application of manure and/or inorganic fertilizer. All records and data used to calculate the manure application rate must be retained for two (2) years and must be made available to the Ministry upon request.

Details/Findings:

Canyon Road Farm does not spread its manure on its fields or any other fields. It is given to another agricultural operator nearby (Curtis).

Canyon Road Farms does not operate agricultural fields other than a small personal garden.

Compliance: In

Requirement Type: Discharge

Requirement Description:

12

Ensure all applications of manure and/or inorganic fertilizer are:
i) a minimum of 3.5 meters from the high water mark of a watercourse;
ii) 3.5 meters from all property lines;
iii) 3.5 meters from any industrial wells; and
iv) 30 meters from any drinking water wells.

Details/Findings:

Canyon Road Farm does not spread its manure on its fields or any other fields. It is given to another agricultural operator nearby (Curtis).

Compliance: In

Requirement Type: Discharge

Requirement Description:

13

Prior to conducting any manure and/or inorganic fertilizer application, ensure the buffer requirements above have been visibly identified either using a visual marking system (such as flagging tape) or GPS enabled datalogger.

Details/Findings:

Canyon Road Farm does not spread its manure on its fields or any other fields. It is given to another agricultural operator nearby (Curtis).

Compliance: In

Were the following collected during inspection:

Samples? ☐ Photos? ☒

EMS Number

Other (please specify)

| | |
|--|--|
| | |
|--|--|

Is the Inspection related to an EA Project? ☐ EA Project Certificate Number:

INSPECTION CONDUCTED BY:

| Signature | Date Signed |
|----------------|-------------|
| Devan Oldfield | 2016-07-26 |

ENCLOSURE(S) TO REGULATED PARTY & DESCRIPTION:

[CVIS Archives](#)

REGULATORY CONSIDERATIONS:

DISCLAIMER:

Please note that sections of the permit, regulation or code of practice referenced in this inspection record are for guidance and are not the official version. Please refer to the original permit, regulation or code of practice.

To see the most up to date version of regulations and codes of practices please visit:
<http://www.bclaws.ca/>

If you require a copy of the original permit, please contact the inspector noted on this inspection record or visit: <http://www2.gov.bc.ca/gov/topic.page?id=DF89089126D042FD96DF5D8C1D8B1E41&title=Publicly%20Viewable%20Authorizations>

It is also important to note that this inspection record does not necessarily reflect each requirement or condition of the authorization therefore compliance is noted only for the requirements or conditions listed in the inspection record.

| | | | |
|--------------------------------|---|-----------------------|---|
| Ministry of Environment | Okanagan Region Environmental Protection Division | Mailing Address: | Phone: (250) 490-8200 |
| | | 102 Industrial Pl | Fax: (250) 490-2231 |
| | | Penticton, BC V2A 7C8 | Website: |
| | | | http://www.gov.bc.ca/env |

| | |
|-----------------------|------------------------|
| Authorization: 108369 | Canyon Road Farms Ltd. |
| CVIS IR #: UA28629 | July 12, 2016 |

Photo 1

Manure storage pad located on the east side of the northern barn.

Photo facing northwest.



Photo 2

Location of historic field storage.

Photo facing east along southern property boundary.



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|-----------------------|------------------------|
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Photo 3

Well located
along north
property line.

Photo facing
north.



Photo 4

Culvert installed
across municipal
roadway in
foreground. Both
barns and
storage pads in
background.

Photo facing
north from
municipal
roadway to the
south of the
property.

