

Permit Fact Sheet

General Information

Permit Number:	WI-0065994-02-0
Permittee Name:	Kit-tell Inc.
Address:	N8076 Butternut Road
City/State/Zip:	Burnett WI 53922
Discharge Location:	Main Farm- N8076 Butternut Road, Burnett WI 53922; NW ¼ of NW ¼ Sec. 29 T12N R15E, Dodge County Satellite Facility- N7817 Fir Road, Burnett WI 53922, NW ¼ of SW ¼ Sec. 30 T12N R15E, Dodge County
Receiving Water:	Main Farm- West Branch Rock River-Rock River- 303d Satellite Facility- Beaver Dam River- 303d
Stream Classification:	Rock River and Beaver Dam River- 303d
Discharge Type:	Existing

Animal Units

Animal Type	Current AU		Proposed AU (Note: If all zeroes, expansions are not expected during permit term)		
	Mixed	Individual	Mixed	Individual	Date of Proposed Expansion
Dairy Calves (under 400 lbs.)	44	0	44	0	02/05/2026
Milking and Dry Cows	910	930	1190	1216	02/05/2026
Heifers (400 lbs. to 800 lbs.)	132	220	132	220	02/05/2026
Heifers (800 lbs. to 1200 lbs.)	165	150	165	150	02/05/2026
Steers or Cows (400 lbs. to market)	300	300	300	300	02/05/2026
Total	1551	930	1831	1216	

Facility Description

Kit-tell INC is an existing Concentrated Animal Feeding Operation (CAFO). Kit-tell INC is owned and operated by the Kittel Family, managed by Ryan Kittel. The farm currently has 1,551 animal units consisting of 650 milking & dry cows, 150 large heifers, 220 small heifers, 220 calves, and 300 steers. Kit-tell INC LLC currently has 1,582.3 acres (628.9 owned and 953.4 controlled through contracts, rental agreements or leases, or under manure agreements) of which 1,570.9

are spreadable acres. Kit-tell INC has A planned expansion during the proposed permit term, of 200 dairy cows. Approximately 9.8 million gallons of manure and process wastewater during the last crop year. The farm has a proposed 303 days of liquid manure storage and at least 59 days of solid manure storage.

Two facilities will be covered under Kit-tell INC WPDES Permit. The main dairy site is located at N8076 Butternut Road, Burnett WI 53922 and is composed of two dairy freestall barns, milking parlor, temporary calf hutch area, calf barns, three heifer barns with one lot, one feed storage area, and four waste storage facilities. The Satellite Facility or Fir Farm is located at N7817 Fir Road, Burnett WI 53922 and is composed of one bed pack barn for steers. All production areas were inspected the day of the inspection.

Kit-tell INC has submitted a reissuance application for their Wisconsin Pollutant Discharge Elimination System (WPDES) This will be the first permit reissuance for this facility. Kit-tell INC is continuing to finish the construction of improvements made during the 2023 construction season. Several areas still require finishing and back fill once complete post construction documents are required and maybe included in the upcoming permit term if not completed at that time, along with the abandonment of the feed storage area near the parlor.

Substantial Compliance Determination

Enforcement During Last Permit:

The farm had no enforcement actions taken during the last permit term. The facility has completed all previously required actions as part of the permitting and / or enforcement process.

After a desk top review of all compliance schedule items and permit application materials, and a site visit on October 10, 2023, this facility has been found to be in substantial compliance with their current permit. Compliance determination entered by [Eric Struck](#) on [April 25, 2024](#).

Sample Point Designation For Animal Waste	
Sample Point Number	Sample Point Location, Waste Type/Sample Contents and Treatment Description (as applicable)
002	WSF 2: Sample point 002 is for liquid waste storage facility 2 (WSF2) located at the main farm. WSF2 is a concrete storage located beneath the southernmost freestall barn, Barn 5. The facility has a capacity of approximately 103,000 gallons and was modified in 2014. This storage currently accepts manure and process wastewater from the flush flume system and solid separation facility. WSF2 was last evaluated in 2016 and meet permit requirements.
003	WSF 3: Sample point 003 is for liquid waste storage facility 3 (WSF3) located at the main farm. WSF3 is concrete storage and is located on the southeast corner of the production area. The facility has the storage capacity for 8.357 million gallons. It was constructed in 2018 with department approval. This storage currently accepts manure and process wastewater from WSF2 and WSF 4. WSF3 was constructed with department approval and meets permit requirements.
004	WSF 4: Sample point 004 is for liquid waste storage facility 4 (WSF 4) located at the main farm. WSF 4 is a concrete-lined waste storage facility located on the southeast corner of the feed storage area and west of the compost area. The facility has the storage capacity of 76,800 gallons and measures 42' x 72' x 6.5' deep and designed to be pumped after every rain event. WSF 4 collects runoff and leachate from the feed storage area and compost area, WSF 4 is then pumped to WSF 3. WSF 4 was designed to collect the 25-year 24-hour storm event and was constructed with plan approval.
005	Solid Separation Building: Sample point 005 is for the Separated Solids Storage Area located at the main

Sample Point Designation For Animal Waste

Sample Point Number	Sample Point Location, Waste Type/Sample Contents and Treatment Description (as applicable)
	farm. The storage area is a liquid tight concert storage located on the south side of barn 5, above the southern part of WSF 2. Separated solids are reused as bedding or land applied in accordance with the farm's approved nutrient management plan. Currently the farm is using the storage area for clean saw dust used as bedding.
006	Outdoor Lots- Main Farm: Sample point 006 is for visual monitoring and inspection of the concrete feedlots, push our areas, and associated runoff control system located at the Mian Farm This includes the lot adjacent to Barn 1 and push out area at the east end of Barn 4. Feedlot runoff and barn waste transferred to the flush flume channel and WSF2. Proper operation and maintenance is required to ensure discharges meet permit requirements. Weekly inspections are required and shall be recorded according to the operation's monitoring and inspection program.
007	Calf Hutch Area: Sample point 007 is for visual monitoring and inspection of the calf hutches and associated runoff control system located at the Main farm on Butternut Road Farm. Proper operation and maintenance is required to ensure discharges meet permit requirements. Weekly inspections are required and shall be recorded according to the operation's monitoring and inspection program. Kit-Tell Inc is currently using some calf hutches west of the calf barn on the north side of the production area. The hutches are used for isolation, quarantine, and short-term animal housing. If the farm wishes to use the area for permeant housing and full population an evaluation of the area would be required.
009	Miscellaneous Solid Manure- Fir Road: Sample point 009 is for solid manure sources that are directly land applied and not stored in a waste storage facility at the Satellite Farm located on Fir Road. All animals at the Fir Road Satellite Farm are not underroof. This includes solid sources such as calf hutch manure, maternity pen bedpack, heifer or steer bedpack, steer manure, etc. Representative samples shall be taken for each manure source type.
010	Feed Storage Area 1: Sample point 010 is for visual monitoring and inspection of feed storage area 1 (FSA1) and the associated runoff control system located at the Main Farm. Proper operation and maintenance is required to ensure discharges meet permit requirements. Weekly inspections are required and shall be recorded according to the operation's monitoring and inspection program. FSA 1 has been expanded and runoff controls with clean water diversions have been installed. FSA 1 is configured into 6 drainage basins. Berms and manholes are placed to collect clean water and divert it as clean storm water. Water that bypasses the clean water collection is collected as wastewater. Wastewater and leachate is collected in the manholes at the south end of the storage area draining WSF 4 and then pumped to WSF 3. The clean water diversions are unplugged when the feed storage area is free of feed. The runoff control system was constructed with department approval and has the capacity to collect the 25-year 24-hour storm event and meets permit requirements.
011	Feed Storage Area 2: Sample point 011 is for visual monitoring and inspection of feed storage area 2 (FSA 2) and the associated runoff control system located at the Main Farm. Proper operation and maintenance is required to ensure discharges meet permit requirements. Weekly inspections are required and shall be recorded according to the operation's monitoring and inspection program. An engineering evaluation of the feed storage area was submitted, and farm has committed to only using FSA 2 for non-leachable feed to meet permit discharge limits.
012	Miscellaneous Solid Manure- Main Farm: Sample point 012 is for solid manure sources that are directly land applied and not stored in a waste storage facility at the Main Farm located on Butternut Road. This includes solid sources such as calf hutch manure, maternity pen bedpack, heifer bedpack, steer manure,

Sample Point Designation For Animal Waste	
Sample Point Number	Sample Point Location, Waste Type/Sample Contents and Treatment Description (as applicable)
	etc. Representative samples shall be taken for each manure source type.
013	WSF 3- Solid Manure: Sample point 013 is for any manure solids removed from bottom of liquid waste storage facilities. This includes manure-laden sand solids, manure fiber solids, etc. Representative samples shall be taken from each waste storage facility.
014	WSF 5- Calf Barn WSF: Sample point 014 is for liquid waste storage facility 5 (WSF 5) located at the main farm. WSF 5 is a concrete reception tank located within/under the calf barn on the north side of the production area. The facility has the capacity of 5000 gallons and was constructed in 2018. WSF 5 collects waste from the calf barn and is then manual pumped to the flush flume system to WSF 2.
015	Storm Water Runoff Control System: Sample point 015 is for visual monitoring and inspection of all production site storm water conveyance systems. This includes roof gutter and downspout structures, drainage tile systems, grassed waterways and other diversion systems that transport uncontaminated storm water. Proper operation and maintenance is required to keep uncontaminated runoff diverted away from manure and process wastewater handling systems. Weekly inspections are required and shall be recorded according to monitoring program.
016	Headland Stacking Sites: Sample point 016 is for solid manure land applied from approved headland stacking sites. Stacks are defined as part of the production area and therefore subject to the production area discharge limitations section of this permit. Quarterly inspections while stacks are present are required and shall be recorded according to monitoring program.

1 Livestock Operations - Proposed Operation and Management

Production Area Discharge Limitations

Beginning on the effective date of the permit, the permittee may not discharge pollutants from the operation’s production area (e.g., manure storage areas, outdoor animal lots, composting and leachate containment systems, milking center wastewater treatment/containment systems, raw material storage areas) to navigable waters, except in the event a 25-year, 24-hour rainfall event (or greater) causes the discharge from a structure which is properly designed and maintained to contain a 25-year, 24-hour rainfall event for this location as determined under s. NR 243.04. If an allowable discharge occurs from the production area, state water quality standards may not be exceeded.

Runoff Control

The permit requires control of contaminated runoff from all elements of the production area to prevent a discharge of pollutants to navigable waters in accordance with the Production Area Discharge Limitations and to comply with surface water quality standards and groundwater standards. Beginning on the effective date of this permit, (if needed) interim measures shall be implemented to prevent discharges of pollutants to navigable waters. In addition, permanent runoff control system(s) shall be designed, operated and maintained in accordance with the requirements found in USDA Natural Resources Conservation Service standards and ch. NR 243, Wis. Adm. Code. If any upgrading or modifications to runoff controls are necessary, formal engineering plans and specifications must submitted to the Department for approval.

Manure and Process Wastewater Storage

The permit requires the operation to have adequate storage for manure and process wastewater and that storage or containment facilities are designed, operated and maintained to prevent overflows and discharges to waters of the state. In order to prevent overflows, the permittee must maintain levels of materials in liquid storage or containment facilities at or

below certain levels including a one foot margin of safety that can never be exceeded. If any upgrading or modifications to the storage facilities are necessary, formal engineering plans and specifications must be submitted to the Department for approval.

The permittee currently has approximately 303 days of storage for liquid manure. The permittee must maintain 180 days of storage, unless temporary reductions in required storage are approved by the Department.

Solid Manure Stacking

The operation has proposed to stack solid manure. All stacking of solid manure shall be done in accordance with ch. NR 243, Wis. Adm. Code, which includes restrictions from NRCS Standard 313. Stacking of manure is considered to be part of the production area and is subject to the Production Area Discharge Limitations.

Ancillary Service and Storage Areas

The permittee shall take preventative maintenance actions and conduct visual inspections to minimize pollutant discharges from areas of the operation that are not part of the production area or land application areas. These areas are called ancillary service and storage areas and include access roads, shipping and receiving areas, maintenance areas, refuse piles and CAFO outdoor vegetated areas.

Nutrient Management

With 1,551 animal units (650 milking & dry cows, 370 heifers, 220 calves & 300 steers). A planned herd size of 1,831 animal units (850 milking & dry cows, 370 heifers, 220 calves and 300 steers) by 2029., it is estimated that approximately 9,800,000 gallons of manure and process wastewater will be produced per year. The permittee owns approximately 628.9 acres of cropland and rents about 953.4 acres. Given the rotation commonly used by the permittee, 1,570.9 acres are available (or open) to receive manure and process wastewater on an annual basis. The permit requires all landspreading of manure and process wastewater be completed in accordance with an approved nutrient management plan. The permit will require sampling and analysis of manure and process wastewater that will be landspread. Landspreading rates must be adjusted based on sample analysis. The permit requires the permittee to maintain a daily log that documents landspreading activities. The permit also requires the submittal of an annual report that summarizes all landspreading activities. Plans must be updated annually to reflect cropping plans and other operational changes. Among the requirements, the plans must include detailed landspreading information including field by field nutrient budgets.

The permittee is required to implement a number of practices to address potential water quality impacts associated with the land application of manure and process wastewater. Among the permit conditions are restrictions on manure ponding, restrictions on runoff of manure and process wastewater from cropped fields, and setbacks from wells and direct conduits to groundwater (e.g., sinkholes, fractured bedrock at the surface). In addition, the permittee must implement a phosphorus based nutrient management plan that addresses phosphorus delivery to surface waters by basing manure and process wastewater applications on soil test phosphorus levels or the Wisconsin Phosphorus index. Additional phosphorus application restrictions apply to fields that are high in soil test phosphorus (>100 ppm).

The permittee must also implement conservation practices when applying manure near navigable waters and their conduits, referred to as the Surface Water Quality Management Area (SWQMA). These practices include a 100-foot setback from navigable waters and their conduits, a 35-foot vegetated buffer adjacent to the navigable water or conduit, or a practice that provides equivalent pollutant reductions equivalent to or better than the 100-foot setback.

In addition, the permittee must comply with restrictions on land application of manure and process wastewater on frozen or snow-covered ground. Included in these restrictions is a prohibition on surface applications of solid manure ($\geq 12\%$ solids) on frozen or snow-covered ground during February and March, nonemergency surface applications of liquid manure ($< 12\%$) on frozen or snow-covered ground are prohibited.

Monitoring and Sampling Requirements

The permittee must submit a monitoring and inspection program that outlines how the permittee will conduct self-inspections to determine compliance with permit conditions. These self-inspections include visual inspections of water lines, diversion devices, storage and containment structures and other parts of the production area. The permit requires periodic inspections and calibrations of landspreading equipment. The permittee must take corrective actions to problems identified inspections or otherwise notify the Department. Samples of manure, process wastewater and soils receiving land applied materials from the operation must also be collected and analyzed.

Sampling Points

The permit identifies the different sources of land applied materials (e.g., manure storage facilities, milking centers, egg-washing facilities) as “Sampling Points.” For these Sampling Points, the permittee is required to sample and analyze the different sources for nutrients and other parameters which serve as the basis for determining rates of application for these materials. Other areas are also identified as Sampling Points as a means of identifying them as areas requiring action by the permittee, such as an upgrade or evaluation of a certain system or structure (e.g., runoff control systems), even though sampling is not actually required.

Sample Point Number: 002- WSF 2- Reception Pit; 003- WSF 3; 004- WSF 4- FSA and Compost; 014- WSF 5- Calf Barn WSF

Monitoring Requirements and Limitations					
Parameter	Limit Type	Limit and Units	Sample Frequency	Sample Type	Notes
Nitrogen, Total		lb/1000gal	2/Month	Grab	
Nitrogen, Available		lb/1000gal	2/Month	Calculated	
Phosphorus, Total		lb/1000gal	2/Month	Grab	
Phosphorus, Available		lb/1000gal	2/Month	Calculated	
Solids, Total		Percent	2/Month	Grab	

1.1.1 Changes from Previous Permit

Sample point 001 was removed as the waste storage facility has been properly abandoned and replaced.

Sample point 004 was changed to account for the waste storage facility associated with the newly constructed WSF 4 for the feed storage area and compost area runoff collection.

Sample point 014 was added to account for the waste storage facility constructed with the calf barn during the permit term.

Other descriptions were updated to better describe the facilities operations.

1.1.2 Explanation of Operation and Management Requirements

Waste shall be sample, stored, and land applied according to permit and nutrient management plan requirements per s. NR 243, Wis. Admin. Code.

Sample Point Number: 005- Solids Separation Building; 009- Miscellaneous Solids-Fir Road; 012- Misc. Solids - Main Farm; 013- WSF 3- Solid Manure, and 016- Headland Stacking Sites

Monitoring Requirements and Limitations					
Parameter	Limit Type	Limit and Units	Sample Frequency	Sample Type	Notes
Nitrogen, Total		lbs/ton	Quarterly	Grab	
Nitrogen, Available		lbs/ton	Quarterly	Calculated	
Phosphorus, Total		lbs/ton	Quarterly	Grab	
Phosphorus, Available		lbs/ton	Quarterly	Calculated	
Solids, Total		Percent	Quarterly	Grab	

1.1.3 Changes from Previous Permit

Sample Point 004 was changed to a liquid sample point to account for the runoff collection. Compost is still sampled as a misc. solid.

Sample Point 016 was added to account for the farms approved headland stacking sites.

Other sample points were updated to better describe the facilities at the farm.

1.1.4 Explanation of Operation and Management Requirements

Waste shall be sample, stored, and land applied according to permit and nutrient management plan requirements per s. NR 243, Wis. Admin. Code.

Sample Point Number: 006- Outdoor Lots- Main Farm; 007- Calf Hutch Area; 010- Feed Storage Area 1; 011- Feed Storage Area 2, and 015- Stormwater Controls

1.1.5 Changes from Previous Permit

Sample point 008 was removed as the lots at the Fir Road site have been abandoned an a new barn has been constructed.

Sample point 015 was added to account for the monitoring of the stormwater systems located at the farm sites.

Remaining sample points had descriptions updated to reflect the facilities operation and function.

1.1.6 Explanation of Operation and Management Requirements

Runoff controls should be visually monitored per the farms monitoring and inspection program and in accordance to s. NR 243, Wis. Admin. Code.

2 Schedules

2.1 Monitoring & Inspection Program

Use of the department’s monitoring and inspection program template is encouraged, but optional.

Required Action	Due Date
Proposed Monitoring and Inspection Program: Consistent with the monitoring and sampling requirements subsection, the permittee shall update and submit a proposed monitoring and inspection program within 30 days of the effective date of this permit.	08/01/2024

2.2 Emergency Response Plan

Required Action	Due Date
Develop Emergency Response Plan: The permittee shall update and submit an emergency response plan within 30 days of the effective date of this permit	08/01/2024

2.3 Nutrient Management Plan

Submit annual nutrient management plan (NMP) updates by March 31 of each year. Note, in addition to annual NMP updates, submit NMP amendments and substantial revisions to the department for written approval prior to implementation of any changes to the NMP.

Required Action	Due Date
Updates to NMP: Submit any necessary updates or changes to the Nutrient Management Plan to meet the conditions outlined in this permit or conditional NMP approval letter (see conditions in the Livestock Operational and Sampling Requirements section)	08/01/2024
Submit NMP Update #1: To include actual cropping, tillage, and nutrient application data from the previous calendar or crop year, consistent with the requirements of department for 3400-025D.	03/01/2025
Submit NMP Update #2: To include actual cropping, tillage, and nutrient application data from the previous calendar or crop year, consistent with the requirements of department for 3400-025D.	03/31/2026
Submit NMP Update #3: To include actual cropping, tillage, and nutrient application data from the previous calendar or crop year, consistent with the requirements of department for 3400-025D.	03/31/2027
Submit NMP Update #4: To include actual cropping, tillage, and nutrient application data from the previous calendar or crop year, consistent with the requirements of department for 3400-025D.	03/31/2028
Submit NMP Update #5: To include actual cropping, tillage, and nutrient application data from the previous calendar or crop year, consistent with the requirements of department for 3400-025D.	03/31/2029
Ongoing Management Plan Annual Updates: Continue to submit Annual Updates to the Nutrient Management Plan until permit reissuance has been completed. To include actual cropping, tillage, and nutrient application data from the previous calendar or crop year, consistent with the requirements of department for 3400-025D.	

2.4 Annual Reports

Submit annual reports by January 31 of each year in accordance with the annual reports subsection in standard requirement.

Required Action	Due Date
Submit Annual Report #1: To include monitoring and inspection results from the previous 12 months, consistent with the requirements of department form 3400-025E.	01/31/2025
Submit Annual Report #2: To include monitoring and inspection results from the previous 12 months, consistent with the requirements of department form 3400-025E.	01/31/2026
Submit Annual Report #3: To include monitoring and inspection results from the previous 12 months, consistent with the requirements of department form 3400-025E.	01/31/2027
Submit Annual Report #4: To include monitoring and inspection results from the previous 12 months, consistent with the requirements of department form 3400-025E.	01/31/2028
Submit Annual Report #5: To include monitoring and inspection results from the previous 12 months, consistent with the requirements of department form 3400-025E.	01/31/2029
Ongoing Annual Reports: Continue to submit Annual Reports until permit reissuance has been completed. To include monitoring and inspection results from the previous 12 months, consistent with the requirements of department form 3400-025E.	

2.5 Submit Permit Reissuance Application

Required Action	Due Date
Reissuance Application: Submit a complete permit reissuance application 180 days prior to permit expiration.	12/30/2028

2.6 Explanation of Schedules

Schedules are included in the permit to ensure compliance with s. NR 243, Wis. Admin. Code, requirements.

Most of the Schedule items are typical for a large dairy facility like this one. The schedules contained in 2.1, 2.2, 2.3, 2.4, and 2.5 are standard permit schedules.

Special Reporting Requirements

NA

Other Comments:

None

Attachments:

Inspection report and with map(s): October 10, 2023

Nutrient Management Plan Approval Letter(s): April 8, 2024

Days of Liquid Manure Storage Review Letter(s): March 26, 2024

Public Notice: April 25, 2024

Expiration Date:

June 30, 2029

Justification Of Any Waivers From Permit Application Requirements

NA

Prepared By: Eric Struck Agricultural Runoff Management Specialist

Date: [April 25, 2024](#)

Notice of reissuance was published in the Daily Citizen, 805 Park Avenue PO Box 558 Beaver Dam, WI 53916-0558.



March 28, 2024

Kit-tell Inc.
Ryan Kit-tell
N8076 Butternut Road
Burnett WI 53922

WPDES Permit No. WI-0065994-01-0
Dodge County

Subject: Inspection Report Summary Letter

Dear Mr. Kittell:

On October 10, 2023, the Wisconsin Department of Natural Resources (WDNR) conducted a site inspection for Kit-tell Inc. as part of the WPDES permit reissuance process. A copy of this inspection report is attached. Based on the site visit there were no additional items were required as part of the final permit application and no violations were observed.

Please review the attached site inspection report. The end of the report summarizes actions that maybe include as schedule items for the next permit term.

The final permit application was received by the department. Items requested for the nutrient management plan (NMP) have been submitted and are being reviewed. The days of storage review is also complete, and the farm was found to have a proposed 303 days of liquid manure storage. A draft permit will be prepared and shared with the farm once the NMP is conditionally approved. If the farm has made a decision on the temporary calf hutch area, please notify me.

If you have any questions regarding this letter, inspection report, or permit requirements, please contact me at (608) 422-1512 or eric.struck@wisconsin.gov.

Sincerely,

Eric J. Struck
Agricultural Runoff Management Specialist – Bureau of Watershed Management
Wisconsin Department of Natural Resources
Cell: (608)-422-1512
eric.struck@wisconsin.gov

Attachments: Inspection report October 10, 2023

CC: Laura Bub, Tabatha Davis (WDNR)
Juliana Brustolin, Jess Ray (Outland Design)
Todd Orłowski (Orłowski Agronomy)
John Bohonek (Dodge County)



CAFO Compliance Report: March 28, 2024

Inspection Date: October 10, 2023

Inspection Type: Permit Reissuance

Operation Name: Kit-tell INC.

WPDES Permit No. WI-0065994-01-0

Operation Address: Main Farm- N8076 Butternut Road, Burnett WI 53922; NW ¼ of NW ¼ Sec. 29 T12N R15E, Dodge County

Satellite Facility- N7817 Fir Road, Burnett WI 53922, NW ¼ of SW ¼ Sec. 30 T12N R15E, Dodge County

Watersheds Main Farm- West Branch Rock River-Rock River- 303d

Satellite Facility- Beaver Dam River- 303d

County: Dodge County

On-Site representatives: Ryan Kittel, Morgan Lyons- Ket-tell INC

Todd Orlowski- Orlowski Agronomy

Juliana Brustolin- Outland Design

DNR Staff / Report Writers: Tabitha Davis, Eric Struck (writer)

On October 10, 2023, Eric Struck and Tabitha Davis met with representatives of Kit-tell INC to conduct a complete production area inspection for the reissuance of the WPDES permit held by Kit-tell INC. Kit-tell INC WPDES permit expires on June 30, 2024 with a reissuance application due on December 31, 2023. Present at the inspection from the farm was Ryan Kittel and Morgan Lyons, with Todd Orlowski of Orlowski Agronomy, and Juliana Brustolin of Outland Design. The Inspection began about 1 pm and concluded at about 3:30 pm. The weather the day of the inspection was partly sunny with temps in the upper 50's. No rain had fallen in the week prior to the inspection and no water samples were taken.

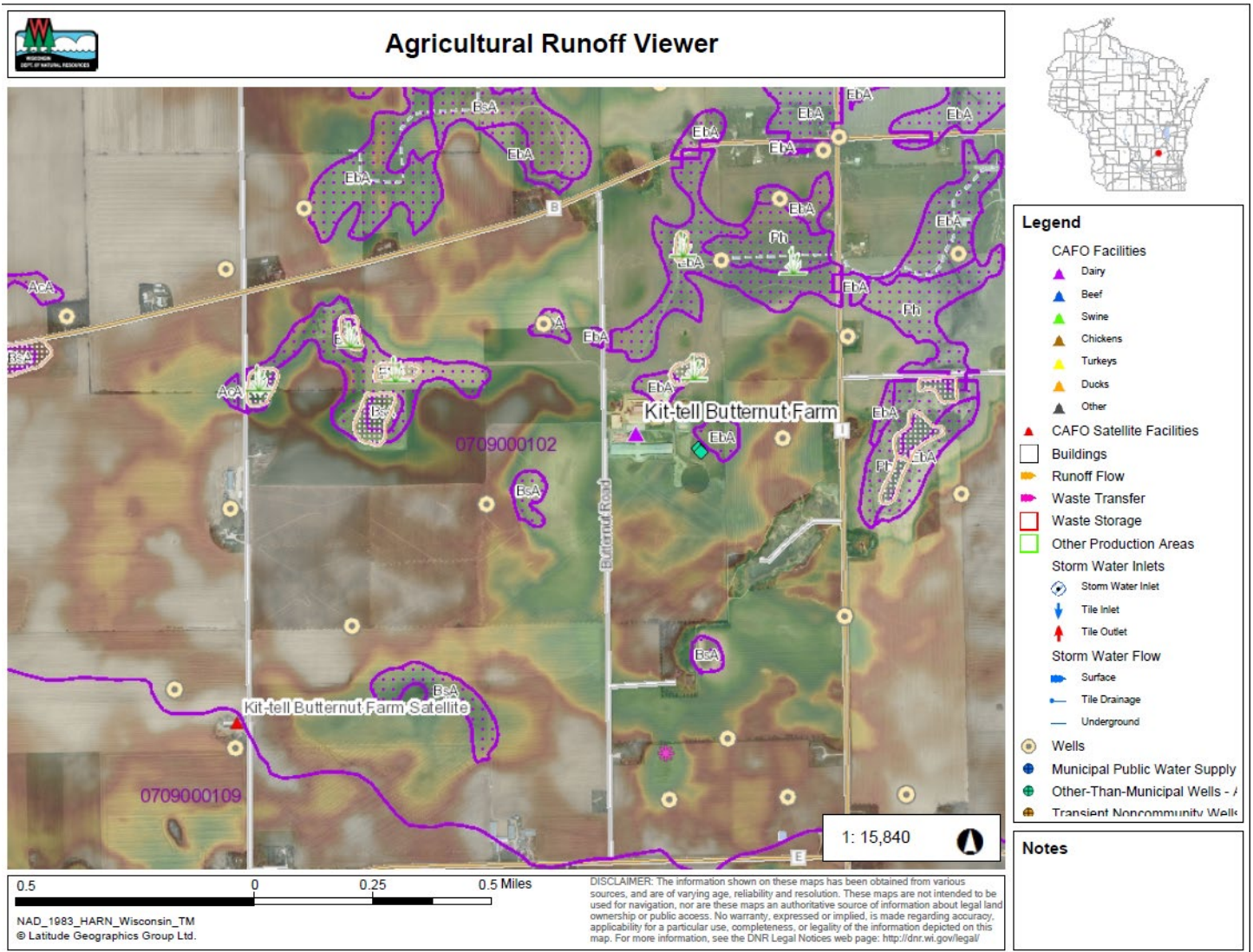
Please see the final section of the inspection report for a list of action items, areas of concern, and any addition application materials required for the final WPDES permit application. A complete application was received and the department is currently reviewing applications materials.

Brief Facility Description

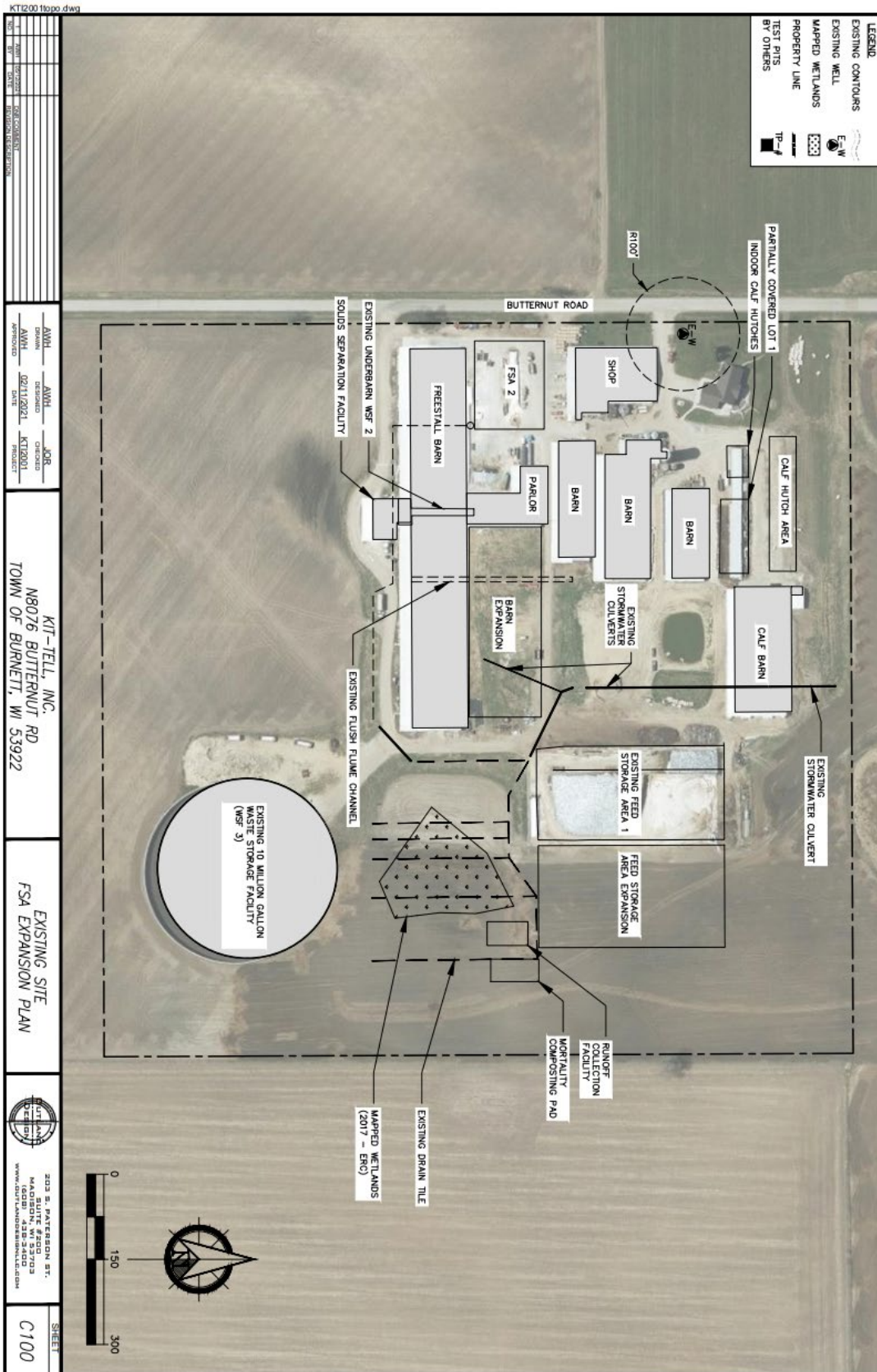
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Two facilities will be covered under Kit-tell INC WPDES Permit. The main dairy site is located at N8076 Butternut Road, Burnett WI 53922 and is composed of two dairy freestall barns, milking parlor, temporary calf hutch area, calf barns, three heifer barns with one lot, one feed storage area, and four waste storage facilities. The Satellite Facility or Fir Farm is located at N7817 Fir Road, Burnett WI 53922 and is composed of one bed pack barn for steers. All production areas were inspected the day of the inspection.

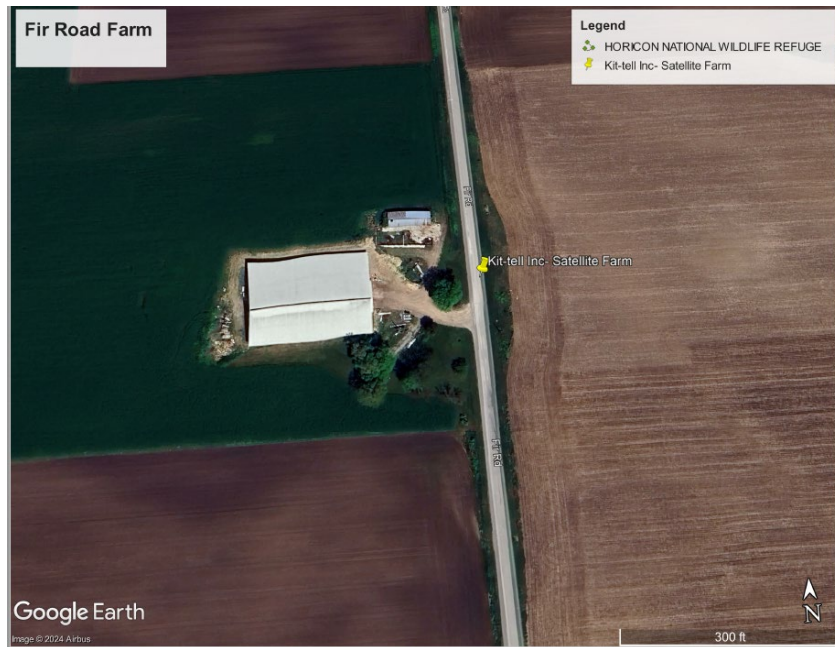
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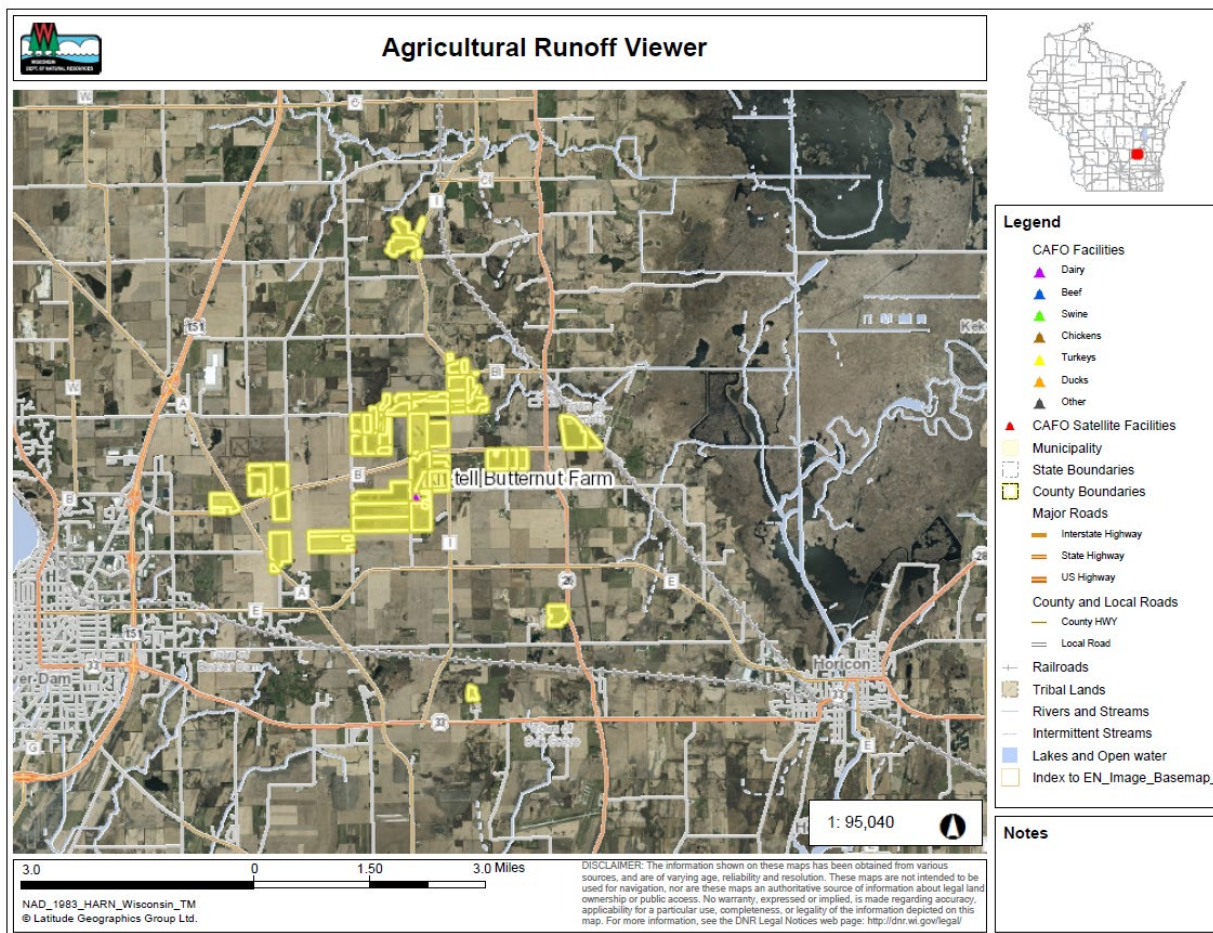
Map 1 WDNR Surface water data viewer. Showing layers for surface water, wetlands, wetland indicating soils. Watershed boundaries, CAFO facilities, and well locations.



Map 2. Site map of the Main farm for Kit-tell Inc. Map supplied with permit application by Outland Design.



Map 3. Map from Google Earth, 5-2023 image. Showing Satellite Facility located on Fir Road. Showing the closure of lots and construction of new steer barn.



Map 4. Map from WDNR Surface Water Agriculture Data Viewer. Showing fields within the farms Nutrient management Plan.

SITE OBSERVATIONS

Feedlot Runoff

- Feedlot areas are managed to not have current or past indicators of discharges.
- Feedlot runoff control systems are well-maintained, in good repair and in compliance with permit requirements.

Most animals at Kit-tel Inc are housed under roof. One open lot is located south of barn 1. Runoff from lot 1 flows east to the flush flume channel on the east end of the lot. The flush flume channel flows south to to the reception tank (WSF 2) under barn 5, before being transferred to WSF 3.

The feed lots at the Satellite Facility (Fir Road Farm) have been abandoned with the construction of the new bed pack barn used to house the steers.



Photo #	0709
Date/Time:	October 10, 2023
Location	Kit-tel Inc Main Farm
Photo taken by:	Davis

Description: West end of barn 1 calves used under roof.



Photo #	0708
Date/Time:	October 10, 2023
Location	Kit-tell Inc Main Farm
Photo taken by:	Struck

Description: Facing east from the west end of Lot 1. Runoff and lot waste flows east to flush flume channel.



Photo #	1862
Date/Time:	October 10, 2023
Location	Kit-tell Inc Main Farm
Photo taken by:	Struck

Description: Facing west from the east end of lot 1.



Photo #	0700
Date/Time:	October 10, 2023
Location	Kit-tell Inc Main Farm
Photo taken by:	Davis

Description: Flush flume channel at the east end of lot 1. Waste and runoff is collected by the channel and flows to the reception tank (WSF 2) in barn 5.



Photo #	1858
Date/Time:	October 10, 2023
Location	Kit-tell Inc Main Farm
Photo taken by:	Struck

Description: Flush flume channel at the east end of barn 2.



Photo #	1854
Date/Time:	October 10, 2023
Location	Kit-tell Inc Main Farm
Photo taken by:	Struck

Description: East end of barn 3, flush flume channel at the end of each freestall lane.



Photo #	1850
Date/Time:	October 10, 2023
Location	Kit-tell Inc Main Farm
Photo taken by:	Struck

Description: Push out area outside of the east end of barn 4 used to load out and push waste to the flush flume.



Photo #	1851
Date/Time:	October 10, 2023
Location	Kit-tell Inc Main Farm
Photo taken by:	Struck

Description: Flush flume area outside barn 4. Some housekeeping needed around push out area from recent cleaning.



Photo #	1903
Date/Time:	October 10, 2023
Location	Kit-tell Inc Main Farm
Photo taken by:	Struck

Description: Construction of barn 6, a new top install on the existing flush flume to allow for waste to be pushing into the channel.



Photo #	1904
Date/Time:	October 10, 2023
Location	Kit-tell Inc- Satellite Fir Road Farm
Photo taken by:	Struck

Description: Facing north from the east entrance to the steer barn at the satellite site on Fir Road.



Photo #	1905
Date/Time:	October 10, 2023
Location	Kit-tell Inc Satellite Fir Road Farm
Photo taken by:	Struck

Description: Facing west from the east entrance to the steer barn at the satellite site on Fir Road.



Photo #	1910
Date/Time:	October 10, 2023
Location	Kit-tell Inc Satellite Fir Road Farm
Photo taken by:	Struck

Description: Facing south from the west end of steer barn. Some clean up needed around the gate and driveway from recent loading.



Photo #	0749
Date/Time:	October 10, 2023
Location	Kit-tell Inc Satellite Fir Road Farm
Photo taken by:	Davis

Description: Facing west at the gate of steer barn, some clean up need from recent clean out.

Calf Hutch Areas

- Calf hutch areas are managed to not have current or past indicators of discharges.
- Runoff control systems are well-maintained, in good repair and in compliance with permit requirements.

Kit-tell Inc has constructed a calf barn to house calves under roof. Waste from the calve barn is collected in a reception tank and manually pumped to the flume channel south of barn 1.

The farm has recently starting using about 30 calf hutches on the north side of the production area, just west of the calf barn. The hutches are used for short term quarantine. The farm is unsure of the long-term use of the area. Struck and the farm will revisit the calf hutch area prior to permit reissuance to determine the long-term use and management of the calf hutch area. No discharges were observed from the calf hutch area.



Photo #	1886
Date/Time:	October 10, 2023
Location	Kit-tell Inc Main Farm
Photo taken by:	Struck

Description: Facing east from the west entrance of the calf barn.



Photo #	0702
Date/Time:	October 10, 2023
Location	Kit-tell Inc Main Farm
Photo taken by:	Davis

Description: Waste reception tank in the west end of the calf barn. Hose and pump for manual transfer to the flush flume.



Photo #	0704
Date/Time:	October 10, 2023
Location	Kit-tell Inc Main Farm
Photo taken by:	Davis

Description: Temporary calf hutch area used for quarantine and isolation for a short time period. Facing east northeast at the hutches.



Photo #	0705
Date/Time:	October 10, 2023
Location	Kit-tell Inc Main Farm
Photo taken by:	Davis
Description: facing east along the back side of the temporary calf hutch area.	

Waste Storage Facilities

- Solid and liquid waste storage facilities are managed to not have current or past indicators of discharges (includes headland stacking sites).
- Solid and liquid waste storage structures are well-maintained, in good repair, and in compliance with permit requirements.
- Liquid waste storage facilities have permanent markers installed.

The farm currently has 4 waste storage facilities. WSF 1 was abandoned during the permit term. It was located east of barns 2 and 3. WSF 2 is and under barn storage that acts as a reception tank for the transfer to WSF 3. A new sample point will be added for WSF 4 the waste storage facility associated with the feed storage runoff controls and composting area. Another sample point will be added for WSF 5 a liquid waste reception tank located in the calf barn. The calf barn is manually pumped to the flush flume channel on the east end of barn and lot 1. Lot 1 and barn 1 are also pushed to the flume channel that runs to the under-barn reception tank (WSF 2). Barns 2, 3, 4, 5, and the currently constructed barn 6 will be also pushed to the east ends to the flush flume channel for transfer to the under-barn storage then transferred to the piping waste storage facility 3. On the south side of barn 5 there is a room constructed for solid separation. The farm is not currently using solid separation and does not have a plan to do so until the power supply can be upgraded to the farm. The solids separation building is currently used to store saw dust used for bedding.

Sample point 002 is for liquid waste storage facility 2 (WSF2) located at the main farm. WSF2 is a concrete storage located beneath the southernmost freestall barn. The facility has a capacity of approximately 103,000 gallons and was modified in 2014. This storage currently accepts manure and process wastewater from the solid separation facility. WSF2 was last evaluated in 2016 and meets permit requirements.

Sample point 003 is for liquid waste storage facility 3 (WSF3) located at the main farm. WSF3 is concrete-lined and is located on the southeast corner of the production area. The facility has the storage capacity for 8.357 million gallons. It was constructed in 2018 with department approval. This storage currently accepts manure and process wastewater from WSF2. WSF3 meets permit requirements.

Sample point TBDX is for liquid waste storage facility 4 (WSF 4) located at the main farm. WSF 4 is a concrete-lined waste storage facility located on the southeast corner of the feed storage area and west of the compost area. The facility has the storage capacity of 76,800 gallons and measures 42' x 72' x 6.5' deep and designed to be pumped after every rain event. WSF 4 collects runoff and leachate from the feed storage area and compost area, WSF 4 is then pumped to WSF 3. WSF 4 was designed to collect the 25-year 24-hour storm event and was constructed with plan approval.

Sample point TBDX is for liquid waste storage facility 5 (WSF 5) located at the main farm. WSF 5 is a concrete reception tank located within/under the calf barn on the north side of the production area. The facility has the capacity of 5000 gallons and was constructed in 2018. WSF 5 collects waste from the calf barn and is then manual pumped to the flush flume.

The satellite facility does not have a waste storage facility. The bed pack barns are either directly land applied or are headland stacked according to the farms approved nutrient management plan.



Photo #	1876
Date/Time:	October 10, 2023
Location	Kit-tell Inc Main Farm
Photo taken by:	Struck
Description: Part of the underbarn waste storage (WSF 2) used as a reception pit for the flush flume transfer system. Inside the center of barn 5.	



Photo #	1878
Date/Time:	October 10, 2023
Location	Kit-tell Inc Main Farm
Photo taken by:	Struck

Description: WSF 2 in the solid separation building on the south side of barn 5.



Photo #	1877
Date/Time:	October 10, 2023
Location	Kit-tell Inc Main Farm
Photo taken by:	Struck

Description: Pump in WSF 2 underbarn reception tank used to transfer waste to WSF 3.



Photo #	0702
Date/Time:	October 10, 2023
Location	Kit-tell Inc Main Farm
Photo taken by:	Davis

Description: Solid separation building currently being used for sawdust storage.



Photo #	1882
Date/Time:	October 10, 2023
Location	Kit-tell Inc Main Farm
Photo taken by:	Struck

Description: Facing south along the northwest side of WSF 3 where waste from WSF 2 enters the storage. Some clean up around the ramp and loading area needed.



Photo #	0726
Date/Time:	October 10, 2023
Location	Kit-tell Inc Main Farm
Photo taken by:	Davis

Description: Facing east from the north side of WSF 3 at the top of the access ramp. Some cleanup of manure solids is needed.



Photo #	1885
Date/Time:	October 10, 2023
Location	Kit-tell Inc Main Farm
Photo taken by:	Struck

Description: Marker installed on WSF 3.



Photo #	0737
Date/Time:	October 10, 2023
Location	Kit-tell Inc Main Farm
Photo taken by:	Davis

Description: WSF 4, collects runoff, leachate and process wastewater from the feed storage area and compost area. Facing south.



Photo #	0738
Date/Time:	October 10, 2023
Location	Kit-tell Inc Main Farm
Photo taken by:	Davis

Description: Inlet for WSF 4 from the feed storage runoff collection.



Photo #	0728
Date/Time:	October 10, 2023
Location	Kit-tell Inc Main Farm
Photo taken by:	Davis

Description: Transfer pumps for the feed storage area runoff controls and compost area.



Photo #	0748
Date/Time:	October 10, 2023
Location	Kit-tell Inc Satellite Fir Road Farm
Photo taken by:	Davis

Description: Southwest corner of the steer barn used to store straw and some solid manure staged for land application.

Process Wastewater (other than feed storage area leachate/runoff)

- Process wastewater sources (milking center, wash water, etc.) are managed to not have current or past indicators of discharges.

Parlor wash water is directed to a reception tank and then transferred to WSF 2.

Feed Storage Area Runoff

- Feed storage areas and associated process wastewater (leachate, runoff) are managed to not have current or past indicators of discharges.
- Feed storage areas and runoff control systems are well-maintained, in good repair and in compliance with permit requirements.

Kit-tell Inc has two feed storage area within the production area. Feed storage area 1 (FSA 1) is located on the east side of the production area. FSA 1 was recently expanded and upgraded with runoff controls. The feed storage area was designed with clean water diversions. The bunkers are configured into 6 drainage basins. Berms and manholes are placed to collect clean water and divert it as clean storm water. Water that bypasses the clean water collection is collected as wastewater. Wastewater and leachate is collected in the manholes at the south end of the storage area draining WSF 4 and then pumped to WSF 3. The clean water diversions are plugged when the feed storage area is free of feed. The clean water diversions and storm water discharge points should be added to the farms monitoring and inspection program to ensure the runoff control system is functioning properly.

The second feed storage area, FSA 2, is the old feed storage area north of barn 5 and west of the parlor, just off Butternut Road. This feed storage area lacks runoff controls. At the time of the inspection feed was still being stored on FSA 2. Construction was still ongoing on FSA 1 so FSA 2 was used during the season to store feed. The farm does not plan to store leachable feed on FSA 2. Non leachable feed such as high moisture corn can be stored on FSA 2. A storm water drain does flow from the south side of FSA 2 to the storm water system. This stormwater drain should be added to the farms monitoring and inspection program to ensure no feed waste or leachate is entering the storm water system.



Photo #	1895
Date/Time:	October 10, 2023
Location	Kit-tell Inc Main Farm
Photo taken by:	Struck

Description: Facing north on feed storage area 1 between two piles. Multiple layers of plastic used to seal the feed piles.



Photo #	0735
Date/Time:	October 10, 2023
Location	Kit-tell Inc Main Farm
Photo taken by:	Davis

Description: Leachate and runoff coming from the feed stored in feed storage area 1. Plug in place for the clean water discharge.



Photo #	0736
Date/Time:	October 10, 2023
Location	Kit-tell Inc Main Farm
Photo taken by:	Davis

Description: Facing east at flow path to the collection point on the south side of the feed storage area 1.



Photo #	0739
Date/Time:	October 10, 2023
Location	Kit-tell Inc Main Farm
Photo taken by:	Davis

Description: Facing north along the east side of the feed storage area 1. Leachate flowing to the collection point.



Photo #	1897
Date/Time:	October 10, 2023
Location	Kit-tell Inc Main Farm
Photo taken by:	Struck

Description: Plugs in the feed storage area 1 clean water discharge collection points.



Photo #	1893
Date/Time:	October 10, 2023
Location	Kit-tell Inc Main Farm
Photo taken by:	Struck

Description: Dumpsters for used plastic from the feed storage area 1.



Photo #	1871
Date/Time:	October 10, 2023
Location	Kit-tell Inc Main Farm
Photo taken by:	Struck

Description: Facing north along the east side of feed storage area 2.



Photo #	1872
Date/Time:	October 10, 2023
Location	Kit-tell Inc Main Farm
Photo taken by:	Struck

Description: Facing south along the east side of feed storage area 2.



Photo #	1873
Date/Time:	October 10, 2023
Location	Kit-tell Inc Main Farm
Photo taken by:	Struck

Description: Facing east from the west end of feed storage area 2. A storm water inlet is located between the feed storage area and barn 5. Has the risk of discharge to the stormwater system.

Animal Mortality Disposal

- Animal mortalities are managed to not have current or past indicators of discharges.

The farm has a designed compost area that drains to WSF 4. The compost area was built with plan approval and meets permit requirements. Struck was going to share some mortality composting resources to help with the composting process. The farm also uses Red Granite Stock removal to pick up mortalities as well.



Photo #	0740
Date/Time:	October 10, 2023
Location	Kit-tell Inc Main Farm
Photo taken by:	Davis

Description: Compost area located in the southeast corner of feed storage area 1.



Photo #	1901
Date/Time:	October 10, 2023
Location	Kit-tell Inc Main Farm
Photo taken by:	Struck

Description: Facing south along the east side of the compost area.



Photo #	0744
Date/Time:	October 10, 2023
Location	Kit-tell Inc Main Farm
Photo taken by:	Davis

Description: drain inlet from the compost area draining to WSF 4.

Ancillary Service Areas

- Preventative maintenance actions and visual inspections are occurring to minimize pollutant discharges from ancillary service and storage areas (i.e. storm water conveyance systems, driveways, etc.).
- Management practices are implemented to sustain sufficient vegetative cover on CAFO outdoor vegetated areas.

The farm has several storm water drains that convey the storm water away from the production area. A storm water drain is located in FSA 2 that flows south under barn 5 then to the east joining the other transfer drains from the feed storage area clean water diversions then flowing north and discharging north of the calf barn. All drains appeared to be clean and free of debris at the time of the inspection. The storm water discharge should be monitored for any discharges from the production area.



Photo #	1902
Date/Time:	October 10, 2023
Location	Kit-tell Inc Main Farm
Photo taken by:	Struck
Description: New stormwater inlet installed with the recent construction west of the feed storage area 1, facing northwest to barn 2.	



Photo #	0730
Date/Time:	October 10, 2023
Location	Kit-tell Inc Main Farm
Photo taken by:	Davis

Description: Stormwater culverts located in the southwest corner of feed storage area 1.



Photo #	0713
Date/Time:	October 10, 2023
Location	Kit-tell Inc Main Farm
Photo taken by:	Davis

Description: facing east along barn 5 and feed storage area 2. A stormwater drain is located long the barn.

RECORDS REVIEW

- The permittee has current WPDES Permit and Nutrient Management Plan onsite.
- The permittee provided complete production site inspection records that are required to be retained.
- The permittee provided adequate documentation that the facility has a minimum of 180 days of liquid manure storage capacity.
- The permittee provided land application records to demonstrate compliance with nutrient management plan requirements.
- The permittee has copies of their emergency response and monitoring and inspection plans onsite.
- The permittee is up to date on required reporting and actions as specified in the Schedules section of permit.

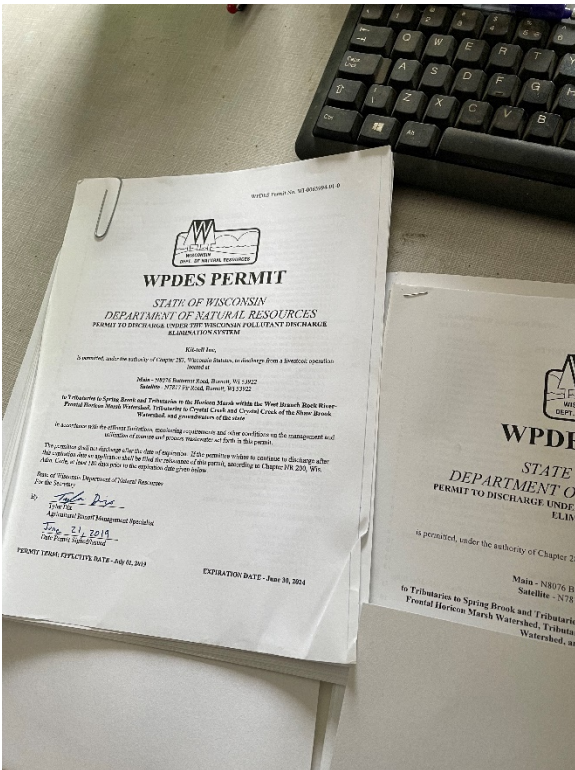


Photo #	1842
Date/Time:	October 10, 2023
Location	Kit-tell Inc Main Farm
Photo taken by:	Struck
Description: Copy of the farm's WPDES Permit.	

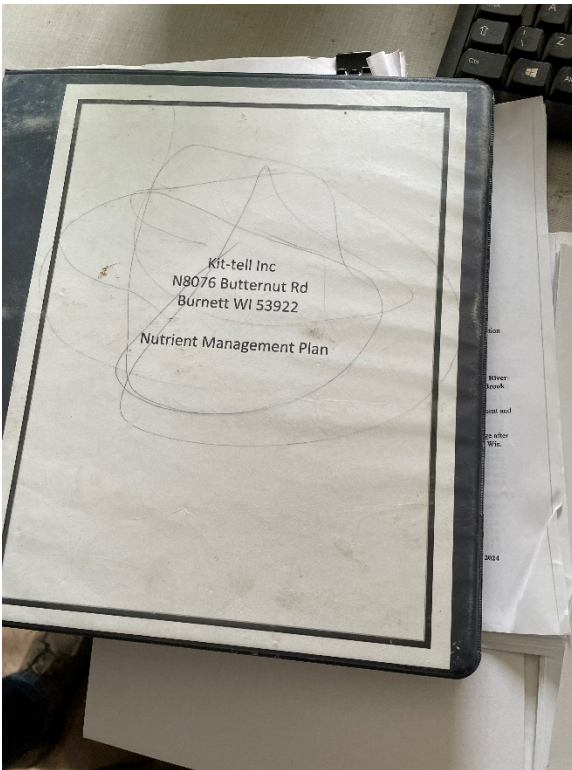


Photo #	1843
Date/Time:	October 10, 2023
Location	Kit-tell Inc Main Farm
Photo taken by:	Struck

Description: Copy of the Farm's Nutrient Management Plan.

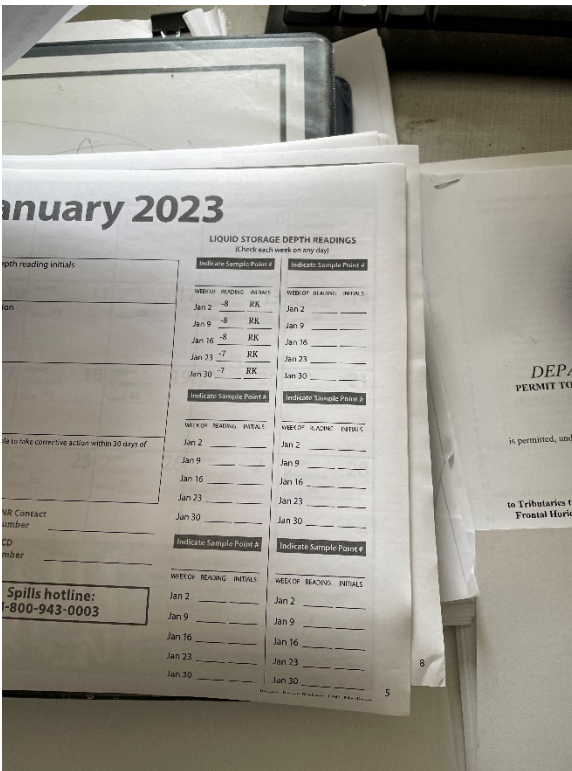


Photo #	1844
Date/Time:	October 10, 2023
Location	Kit-tell Inc Main Farm
Photo taken by:	Struck

Description: Printed copy of the CAFO Calendar used to record inspections and measurements.

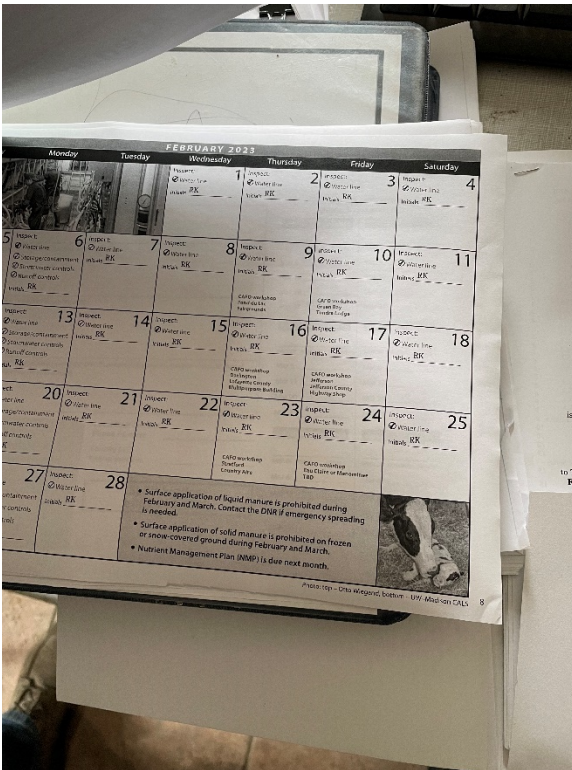


Photo #	1845
Date/Time:	October 10, 2023
Location	Kit-tell Inc Main Farm
Photo taken by:	Struck

Description: Printed copy of the CAFO Calendar used to record inspections and measurements.

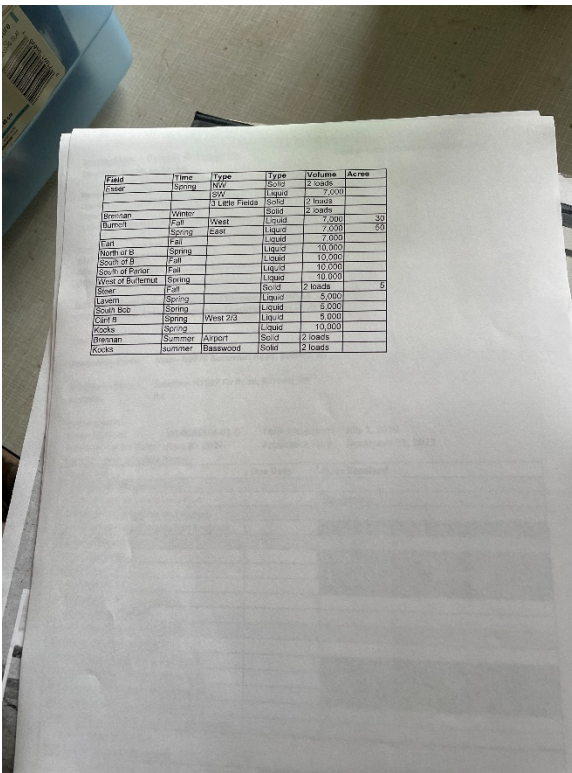


Photo #	1846
Date/Time:	October 10, 2023
Location	Kit-tell Inc Main Farm
Photo taken by:	Struck

Description: Recent hauling records.

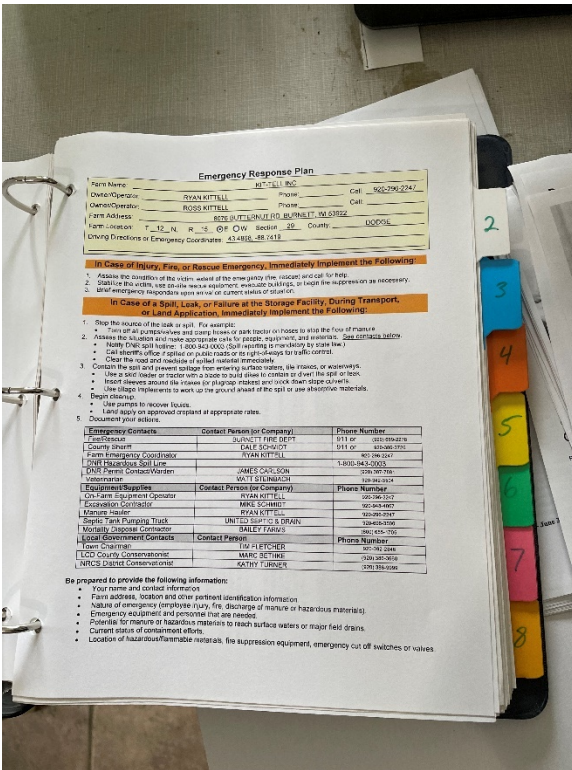


Photo #	1847
Date/Time:	October 10, 2023
Location	Kit-tell Inc Main Farm
Photo taken by:	Struck

Description: The farm's emergency response plan.

SUMMARY

Areas of Concern

- Temporary calf hutch area.
- Leachable feed still being stored on feed storage area 2.
- Some clean up around push out areas.

Permit Violations Alleged Noncompliance

- None identified during the inspection.

Action Items

- Feed up remaining feed on FSA 2
- Determine if a long-term plan is needed for the temporary calf hutch area.

Items for Next Permit Term

- Management plan, abandonment, or possible plans and specifications of long-term calf hutch area runoff controls.
- FSA 2 only used for non-leachable feed.



April 8th, 2024

Dodge County
Approval

Ryan Kittell
Kit-tell Inc
N8076 Butternut Rd
Burnett, WI 53922

SUBJECT: Amended Conditional Approval of Kit-tell Inc Nutrient Management Plan, WPDES
Permit No. 0065994-02-0

Dear Mr. Kittell:

After completing a review of Kit-tell Inc 2024-2028 Nutrient Management Plan (NMP) the Wisconsin Department of Natural Resources (Department) is providing conditional approval that it is consistent with Nutrient Management Requirements in s. NR 243, Wis. Adm. Code. This part of your WPDES permit application is now ready for the public notice and comment process as required by Ch. 283 Stats.

Before applying manure onto approved fields each season, the Department recommends Kit-tell Inc review the NMP with those individuals involved with manure applications to ensure all remain familiar with the approved manure spreading protocol, spreading maps, field and map verification, record keeping requirements, and all the conditions of this approval. Specifically, some fields in Kit-tell Inc may have:

- Soils that may have bedrock or groundwater within 24 inches of surface,
- Multiple setback areas due to streams, conduits to streams, grassed waterways, wetlands or wells, and
- Evidence of possible soil erosion/flow channels. Note: road ditches or other man-made channels may be considered flow channels or conduits to navigable water and may be subject to a SWQMA and setback.

Reviewing the NMP and checking fields for these features and soil conditions prior to manure applications will help Kit-tell Inc maintain compliance with their WPDES permit and Ch. NR 243 requirements.

FINDINGS OF FACT

The Department confirms that:

1. A current dairy herd size of 1,551 animal units (650 milking & dry cows, 370 heifers, 220 calves & 300 steers). A planned herd size of 1,831 animal units (850 milking & dry cows, 370 heifers, 220 calves and 300 steers) by 2029.
2. Manure generation and spreading records indicate your herd will annually generate approximately 9,800,000 gallons of manure and process wastewater and 5,500 tons of solid manure in the first year of the permit term. By 2029 the herd is projected to generate 11,500,000 gallons of manure and process wastewater and 5,500 tons of solid manure.
3. The use of application restriction options 1 and 5 within surface water quality management areas.
4. The use of phosphorus delivery method P Index.

5. That Kit-tell Inc currently has 1,582.3 acres (628.9 owned and 953.4 controlled through contracts, rental agreements or leases, or under manure agreements) of which 1,570.9 are spreadable acres.
6. That some fields included in the NMP are directly adjacent to or have high potential to deliver nutrients and sediment to Horicon Marsh (listed 303(d) impaired water by ‘total suspended solids’ & ‘total phosphorus’).
7. That no fields are directly adjacent to or have high potential to deliver nutrients and sediment to outstanding/exceptional waters.
8. That the following fields included in the NMP are located within the well head protection area for the Name of City or Village: List Fields
9. That 13 fields are tiled.

- B 01	- K 4	- K 5	- K 8
- LP 01	- LP 06	- LP 19A	- LP 19B
- ROCK	- T 1	- T 2	- WOOCK K2
- WOOCK RS			
10. That all fields will be checked for the following features prior to/during manure or process wastewater applications: soil areas with possible shallow groundwater (i.e., within 24 inches of surface) at the time of manure application; required setbacks associated with wells, navigable waters, conduits to navigable waters, grassed waterways, wetlands, possible soil erosion/flow channels.
11. That surface applications of manure will not be completed when precipitation capable of producing runoff is forecasted within 24 hours of the time of planned application.

CONDITIONAL NUTRIENT MANAGEMENT PLAN APPROVAL

The Department hereby approves the 2024-2028 Kit-tell Inc Nutrient Management Plan subject to the following conditions and the applicable requirements of Ch. NR 243, Wis. Adm. Code:

FIELD AND MANURE MANAGEMENT

1. Fields not included in the NMP and new fields shall not receive manure or process wastewater applications until they have been properly soil sampled, entered into Snap Plus, evaluated for their nutrient needs, and approved by the Department.
2. The following fields are prohibited from receiving applications of manure or process wastewater:

- Ganske (default)	- WOOCK RN (default)	- WOOCK RS (default)
- WOOCK K1 (default)	- RB63 (default)	

If Kit-tell Inc wishes to use these fields for applications of manure or process wastewater all necessary information shall be submitted to the Department prior to application to demonstrate compliance with NR 243 and other applicable codes. Written Department approval amending this condition approval must be received prior to application.

3. If existing fields yield a soil test results equal to or greater than 200 ppm P, those fields would be prohibited from receiving manure or process wastewater applications, unless you obtain Department approval in accordance with NR 243.14(5)(b)2., Wis. Adm. Code.
4. All liquid manure samples collected may be analyzed, at a minimum, for percent dry matter, total nitrogen, percent NH₄-N, percent NO₃-N, phosphorus, potassium, and sulfur.
5. If manure sample results have a dry matter (DM) content less than 2.0% and the percent ammonium (NH₄⁺) is greater than 75% of the total N, Kit-tell Inc may use the following equation to adjust the first year available nitrogen when applications are injected or incorporated within 1 hour:

$$\text{First-Year Available N} = \text{NH}_4\text{-N} + [0.25 \times (\text{Total N} - \text{NH}_4\text{-N})]$$

6. Kit-tell Inc shall record daily manure applications by using form 3200-123A. These forms shall be retained at the farm and provided to the department upon request.
7. Kit-tell Inc shall annually submit a spreading report that summarizes the land application activities listed under NR 243.19(3)(c)5., Wis. Adm. Code by using 'CAFO Annual Spreading Reports' as generated by Snap Plus.

WINTER SPREADING

8. Liquid manure applications during winter conditions, as defined by NR 243.14(7), Wis. Adm. Code, are prohibited with the exception of emergency applications.
9. The following field(s) are approved for winter spreading solid manure, emergency applications of liquid manure and frozen liquid manure:

- B 04-7	- B 09	- BR 1	- BR 2
- CP EE	- CP EW	- CP W	- E2
- G 1E	- G 1W-A	- G 1W-B	- G 2
- Ganske	- H 1	- H 2	- H 3
- H 7-9	- K 1	- K 2	- K 3W
- K6	- K7	- LP 11	- LP 20B
- LP 20D	- R 1-4	- RB 63	- T 2
- WOOCK K3	- WOOCK K4	-	-
10. Winter spreading of solid and liquid manure may not occur during the "high risk runoff period" pursuant to s. NR 243.14(6)(c) and NR 243.14(7)(c), respectively.
11. Winter applications of liquid manure shall only occur under emergency situations, after notifying the Department and receiving verbal approval.
12. Liquid applications shall be limited to 3,500 gallons per acre or 30 lbs. P per acre, whichever is less, on slopes 2-6% and 7,000 gallons per acre or 60 lbs. P per acre, whichever is less, on slopes 0-2%. Winter applications of solid manure shall be limited to 60 lbs. P per acre.

HEADLAND STACKING

13. The following headland stacking sites are approved for use with greater than 32% solids only:

- G1E Stack Site	- G1WA Stack Site
- G1WB Stack Site	- H2 Stack Site
- R5 Stack Site	- H3 Stack Site
- H7-9 Stack Site	- B04-7 Stack Site

All sites are subject to the following requirements:

- Sites may be used 1 out of every 2 years, stacking period may not exceed 8 months.
- Sites may be used during February and March, or any period of the year when the ground is not frozen, or snow covered.

MANURE & PROCESS WASTEWATER IRRIGATION

14. Irrigation of manure or process wastewater is prohibited.

SUBMITAL AND RECORDKEEPING REQUIREMENTS

15. A copy of this conditional approval shall be included in all future annual Nutrient Management Plan Updates in addition to the NR 243 and NRCS 590 checklists.

This conditional approval does not limit the Department's regulatory authority to require NMP revisions (based upon new information or manure irrigation research findings) or request additional information in order to confirm or ensure your farm operation remains in compliance with NR 243 and your WPDES permit conditions. If additional information, project changes or other circumstances indicate a possible need to modify this approval, the Department may ask you to provide further information relating to this activity.

Please keep in mind that approval by the Department of Natural Resources – Runoff Management Program does not relieve you of obligations to meet all other applicable federal, state or local permits, zoning and regulatory requirements.

If you have any questions regarding this approval I can be reached at 608-212-8460 or Ashley.Scheel@Wisconsin.gov.

Sincerely,



Ashley Scheel, CCA
WDNR Nutrient Management Plan Reviewer
Wisconsin Department of Natural Resources

cc: Eric Struck, WDNR Agricultural Runoff Specialist (Eric.Struck@Wisconsin.gov)
Laura Bub, WDNR Watershed Field Supervisor (Laura.Bub@Wisconsin.gov)
Joe Baeten, WDNR Watershed Field Supervisor (Joseph.Baeten@Wisconsin.gov)
Christopher Clayton, WDNR Runoff Management Section Chief (Christopherr.Clayton@Wisconsin.gov)
Tyler Dix, WDNR CAFO Program Coordinator (Tyler.Dix@Wisconsin.gov)
Aaron O'Rourke, WDNR Nutrient Management Program Coordinator (Aaron.Orourke@Wisconsin.gov)
Falon French, WDNR Intake Specialist (Falon.French@Wisconsin.gov)
McKenna Arnoldi, WDNR NMP LTE (McKenna.Arnoldi@Wisconsin.gov)
Rob Davis, WDNR CAFO Engineer (Robert.Davis@Wisconsin.gov)
Tony Salituro, WDNR CAFO Engineer (Anthony.Salituro@Wisconsin.gov)
Robert Bird, Dodge County (Robert.Bird@Co.Dodge.wi.us)
Todd Orłowski, Orłow's Agronomy, LLC (Todd.Orłowski@yahoo.com)

File



March 26, 2024

FILE REF: R-2024-0027
 WPDES Permit #: WI-0065994

Ryan Kittell
 Kit-tell Inc.
 N8076 Butternut Road
 Burnett, WI 53922

Subject: Days of Storage Review for Kit-tell Inc. in T12N, R15E, Section 29, Burnett Township, Dodge County – NO ADDITIONAL ACTION REQUIRED

Dear Mr. Kittell:

This letter is to inform you that the Wisconsin Department of Natural Resources (Department) has completed its review of the calculation of days of storage submitted by Clark Fox, P.E., Outland Design/Ruekert Mielke on January 11, 2024 on behalf of Kit-tell Inc.

The Department reviewed the submitted calculations in accordance with ss. NR 243.14(9) and NR 243.15(3)(i) to (k), Wis. Adm. Code. Under s. NR 243.17(3)(c), Wis. Adm. Code, the permittee shall demonstrate compliance with the 180-day design storage capacity requirement at specified times. For the following liquid manure storage calculations, the Department has determined **no additional actions** on your part are required.

Days of Available Liquid Waste Storage: The submitted information states that Kit-tell Inc. has 303 days of liquid waste storage based on the volumes listed in the table below with respect to s. NR 243.15(3)(i) to (k), Wis. Adm. Code. The current number of animal units provided for the calculation is 1,551. Kit-tell is planning to gradually expand during each year of the permit term and proposes to get their animal units up to 1,831 by 2029. The liquid waste volumes are based on the NRCS spreadsheet and other estimated or calculated values. The liquid waste volumes are based upon a collection period of 365 days. Collection of leachate and contaminated runoff is provided for the feed storage areas and utilizes a clean water diversion to reduced runoff collected.

Total Liquid Waste Storage:	9,356,941 gallons
Total Solids Storage:	0 gallons
Total 25-yr, 24-hr Precipitation on Storage:	228,298 gallons
Total 25-yr, 24-hr Collected Runoff:	236,955 gallons
Total Freeboard Volume:	762,045 gallons
Total MOL Liquid Waste Storage:	8,129,643 gallons

Manure and Bedding and Parlor Wastewater:	7,990,631 gallons
Total Feed Storage Leachate:	74,800 gallons
Total Feed Storage Runoff Collected:	721,850 gallons
Net Precipitation on Storage Surfaces:	992,386 gallons
Total Liquid Waste Stored Below the MOL:	9,779,667 gallons

Should you have any questions, please contact Rob Davis, DNR Madison office or your regional CAFO Specialist.

NOTICE OF APPEAL RIGHTS

If you believe that you have a right to challenge this decision, you should know that the Wisconsin statutes and administrative rules establish time periods within which requests to review Department decisions must be filed. For judicial review of a decision pursuant to WIS. STAT. §§ 227.52 and 227.53, you have 30 days after the decision is mailed, or otherwise served by the Department, to file your petition with the appropriate circuit court and serve the petition on the Department. Such a petition for judicial review must name the Department of Natural Resources as the respondent.

To request a contested case hearing pursuant to WIS. STAT. § 227.42, you have 30 days after the decision is mailed, or otherwise served by the Department, to serve a petition for hearing on the Secretary of the Department of Natural Resources. All requests for contested case hearings must be made in accordance with WIS. ADMIN. CODE § NR 2.05(5), and served on the Secretary in accordance with WIS. ADMIN. CODE § NR 2.03. The filing of a request for a contested case hearing does not extend the 30-day period for filing a petition for judicial review.

STATE OF WISCONSIN
DEPARTMENT OF NATURAL RESOURCES



Bernie Michaud, P.E.
CAFO Engineer Supervisor
Watershed Management Program



Rob Davis, P.E.
Water Resources Engineer
Watershed Management Program

Email: Ryan Kittell; Kit-tell Inc.
(920) 296-2247; kittellinc@gmail.com

Matt Woodrow, P.E.; DATCP
(920) 427-8505; matthew.woodrow@wisconsin.gov

Clark Fox, P.E.; Outland Design/Ruekert & Mielke
(608) 960-7549; cfox@outland-design.com

John Bohonek; Dodge County
(920) 386-3662; jbohonek@co.dodge.wi.us

Eric Struck; DNR, South Central Region
(608) 422-1512; Eric.Struck@wisconsin.gov

Laura Bub; DNR, South Central Region
(608) 712-5249; Laura.Bub@wisconsin.gov

Ashley Scheel; DNR, Central Office
(608) 261-6419; ashley.scheel@wisconsin.gov

Rob Davis, P.E.; DNR, Central Office
(608) 225-2720; Robert.Davis@Wisconsin.gov

STATE OF WISCONSIN DEPARTMENT OF NATURAL RESOURCES

PUBLIC NOTICE OF AVAILABILITY OF A NUTRIENT MANAGEMENT PLAN AND INTENT TO REISSUE A WISCONSIN POLLUTANT DISCHARGE ELIMINATION SYSTEM (WPDES) PERMIT No. WI-0065994-02-0

Permittee: Kit-tell Inc., N8076 Butternut Road, Burnett, WI, 53922

Facility Where Discharge Occurs: Main Farm- N8076 Butternut Road, Burnett WI 53922; NW ¼ of NW ¼ Sec. 29 T12N R15E, Dodge County, Satellite Facility- N7817 Fir Road, Burnett WI 53922, NW ¼ of SW ¼ Sec. 30 T12N R15E, Dodge County

Receiving Water And Location: Surface water and groundwater within the **West Branch Rock River-Rock River and Beaver Dam** Watersheds

Brief Facility Description : Kit-tell INC is an existing Concentrated Animal Feeding Operation (CAFO). Kit-tell INC is owned and operated by the Kittel Family, managed by Ryan Kittel. The farm currently has 1,551 animal units consisting of 650 milking & dry cows, 150 large heifers, 220 small heifers, 220 calves, and 300 steers. Kit-tell INC LLC currently has 1,582.3 acres (628.9 owned and 953.4 controlled through contracts, rental agreements or leases, or under manure agreements) of which 1,570.9 are spreadable acres. Kit-tell INC has A planned expansion during the proposed permit term, of 200 dairy cows. Approximately 9.8 million gallons of manure and process wastewater during the last crop year. The farm has a proposed 303 days of liquid manure storage and at least 59 days of solid manure storage.

Two facilities will be covered under Kit-tell INC WPDES Permit. The main dairy site is located at N8076 Butternut Road, Burnett WI 53922 and is composed of two dairy freestall barns, milking parlor, temporary calf hutch area, calf barns, three heifer barns with one lot, one feed storage area, and four waste storage facilities. The Satellite Facility or Fir Farm is located at N7817 Fir Road, Burnett WI 53922 and is composed of one bed pack barn for steers.

The Department has tentatively decided that the above specified WPDES permit should be reissued.

Permit Drafter's Name, Address, Phone and Email: Eric Struck, WDNR #180, 141 NW Bartow Street, Waukesha, WI, 53188-3789, (608) 422-1512, Eric.Struck@wisconsin.gov

Persons wishing to comment on or object to the proposed permit action, the terms of the nutrient management plan, or the application, or to request a public informational hearing may write to the Department of Natural Resources at the permit drafter's address. All comments or suggestions received no later than 30 days after the publication date of this public notice will be considered along with other information on file in making a final decision regarding the permit. Anyone providing comments in response to this public notice will receive a notification of the Department's final decision when the permit is re-issued. Where designated as a reviewable surface water discharge permit, the U.S. Environmental Protection Agency is allowed up to 90 days to submit comments or objections regarding this permit determination. If no comments are received on the proposed permit from anyone, including U.S. EPA, the permit will be re-issued as proposed.

The Department may schedule a public informational hearing if within 30 days of the public date of this notice, a request for a hearing is filed by any person. The Department shall schedule a public informational hearing if a petition requesting a hearing is received from USEPA or from 5 or more persons or if the Department determines there is significant public interest. Requests for a public informational hearing shall state the following: the name and address of the person(s) requesting the hearing; the interest in the proposed permit of the person(s) requesting the hearing; the reasons for the request; and the issues proposed to be considered at the hearing.

Information on file for this permit action, including the draft permit and fact sheet (if required), the operation's nutrient management plan and application may be inspected and copied at the permit drafter's office, Monday through Friday (except holidays), between 9:00 a.m. and 3:30 p.m. Please call the permit drafter for directions to their office location, if necessary. Information on this permit action may also be obtained by calling the permit drafter at (608) 422-1512 or by writing to the Department. Reasonable costs (15 cents per page for copies and 7 cents per page for scanning) will be charged for information in the file other than the public notice and fact sheet. Permit information is also available on the internet at: <http://dnr.wi.gov/topic/wastewater/PublicNotices.html>. Pursuant to the Americans with Disabilities Act, reasonable accommodation, including the provision of informational material in an alternative format, will be made to qualified individuals upon request.

NAME OF PUBLISHING NEWSPAPER: Daily Citizen

ADDRESS OF PUBLISHING NEWSPAPER: 805 Park Avenue PO Box 558 Beaver Dam, WI 53916-0558

Date Notice Issued: **Enter Date Notice Issued**