WATER QUALITY TRADING PLAN

for

THE PHILLIPS PLATING CORPORATION, LLC

prepared by

BENZEL SOIL SERVICES, LLC
P.O. BOX 542
MERCER, WI 54547

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PHILLIPS PLATING CORPORATION
WATER QUALITY TRADING PLAN

I. Introduction/Summary

The purpose of this water quality trading plan is to describe the Phillips Plating Corporation's use of water quality trading to comply with the total phosphorus Water Quality Based Effluent Limits for its WPDES No. WI- 0041149. This water quality trading plan was developed pursuant to the Notice of Intent to Conduct Water Quality Trading included in Attachment A. In particular, Phillips Plating will trade with upstream agricultural properties which generate trading credits via reduction of P losses by conversion from dairy production cropping practices to perennial vegetation. Phillips Plating has entered into written agreements with Neil Foytik, Anders Lund, Richard Norek and Albert Norek to maintain the new crop rotation and practices described in this trade plan through December 31, 2028.

With a total phosphorus monthly average limit of 0.04 mg/L and an average monthly flow of 0.02 million gallons per day (MGD) in 2019, Phillips Plating expects its monthly phosphorus discharge to exceed the future WPDES, monthly limit by 16.8 lbs/mo or approximately 202 lbs/yr. Phillips Plating has used SnapPlus P Trade Reports to quantify P loss reductions attributable to management practice changes on whole fields and pastures and also used the U.W. Madison's APLE-Lots Beta online tool to quantify P loss reductions attributable to practice changes which converted barnyard/dry lot exercise/feedlots to permanent vegetation. Using the appropriate trade ratios as per WDNR guidance, Phillips Plating calculated the phosphorus water quality credits available per year based on the change in management practices (i.e. conversion from dairy farming to permanent vegetative cover). Phillips Plating will use these credits to document compliance with its total phosphorus limit in its WPDES permit. A Notice of Intent to Conduct Water Quality Trading Form 3400-206 (Attachment A) and a Water Quality Trading Management Practice Registration Form 3400-207 (Attachment B) for each Trade Agreement were submitted to the WDNR in early 2020 prior to implementation of the credit-generating, management practice changes.

II. Background and Purpose

A. Background

The Phillips Plating Corporation, LLC at Phillips, WI, electroplates nickel, copper, and chrome onto plastic parts. The electroplating process produces wastewater that has a low pH and contains soluble forms of the metals. The treated wastewater is discharged to Elk Lake. The current WPDES permit is due to expire September 30, 2023. With a variance that established phosphorus discharge limits for the current WPDES permit, the Phillips Plating wastewater treatment facility has been in compliance with its permit limits and continues to make

operational improvements to reduce its phosphorus discharge. Most of the total phosphorus discharged by Phillips Plating is in the phosphite-P form which is technologically untreatable and is unavailable to aquatic ecosystem uptake or cycling; therefore, the removal of sediment and soluble P from upstream sources is expected to significantly improve water quality.

B. Phillips Plating Current Operations

The existing wastewater treatment facility was constructed in 1978. The wastewater is treated by chromium reduction, pH adjustment, neutralization, a proprietary chemical precipitation and oxidation process, and filtration to remove the metals. The removed metals are part of a precipitate sludge which is dried and hauled to a hazardous waste disposal site. The treated outfall discharges to Elk Lake located in HUC 12 070500030107.

The current phosphorus effluent limit of 6.0 mg/L based on a 12-month rolling average is allowed by variance. This variance will expire on September 30, 2023. The monthly average of daily flow in 2019 was 0.02 MGD. Operational improvements implemented in 2019 reduced total P discharges and discounted the usefulness of previous years' data sets to predict compliance needs which will start October 1, 2023. In 2019 the average effluent phosphorous concentration varied from 2.4 to 4.4 mg/L across the year. Table 1 shows each month's average flow, P concentration, P discharge, the 2023-2028 predicted, allowable P discharge and predicted monthly exceedances based on 0.02 MGD flow and the 2023, total P, Water Quality Based Effluent Limit (WQBEL) of 0.04 mg/L.

Table 1. Phillips Plating 2019 monthly average flow, P concentration, and P discharge, and predicted 2023-2028 allowable discharge and monthly exceedance.

	2019			Predicted 2023-2028	
	Avg. Flow (MGD)	P Conc. Avg. (mg/L)	P Discharge (lbs/mo)	Allowable P Discharge (lbs/mo)	Monthly Exceedance (lbs/mo)
Jan	0.020	3.85	19.8	0.21	19.6
Feb	0.021	4.12	20.2	0.20	20.0
Mar	0.019	3.70	17.7	0.19	17.5
Apr	0.020	4.23	20.7	0.20	20.5
May	0.020	4.42	22.8	0.21	22.5
Jun	0.021	2.68	14.1	0.21	13.9
Jul	0.021	3.39	18.4	0.22	18.2
Aug	0.020	2.88	14.9	0.21	14.7
Sep	0.022	2.40	13.0	0.22	12.8
Oct	0.021	2.84	15.1	0.21	14.8
Nov	0.019	3.05	14.7	0.19	14.5
Dec	0.020	2.53	13.0	0.20	12.8
Total Annual			204.4	2.46	201.9

C. Purpose

A new total phosphorus WQBEL will be required in the next permit. Partly because there is no technology available to treat/remove phosphite-P as a method to reduce the total P discharge, water quality trading involving upstream agricultural operations is planned to generate phosphorus trading credits for compliance. Because the technology available to treat/remove phosphite-P is unavailable, there has been no economic evaluation for that non-option.

Using the 2019 monthly average flow (MGD) and the monthly average effluent P concentration (mg/L) to calculate the monthly discharged P (lbs/mo), the annual total P discharge from 2019 totalled 204.4 lbs. Using the 2019 monthly average flow and the future WQBEL of 0.04 mg/L to calculate the allowable monthly discharge (lbs/mo), the future water quality based allowable load will total 2.46 lbs P/yr.

D. Annual P Load Reduction & Minimum Credit Need

Table 1 shows the future WPDES permit will only allow 2.46 pounds of phosphorous to be discharged to Elk Lake on an annual basis, a P load reduction of 202 lbs/yr. This will require a minimum of 242.4 lbs/yr of upstream P load reduction from agricultural practice changes when considering the minimum trade ratio of 1.2:1.

Water Quality Trading (WQT) will be used as the method to comply. This water quality trading plan details how credits will be generated for trading by agricultural management changes in the upstream HUC 12 070500030106. A Water Quality Trading Management Practice Registration Form 3400-207 (Attachment B) for each Trade Agreement was submitted to the WDNR in early 2020 prior to implementation of the credit-generating, management practice changes.

III. Potentially Tradeable Phosphorus, Phosphorus Loss Reductions & Credits

This section describes the characteristics of the non-point source, credit-generating, agricultural lands of the Foytik Family Farm, LLC operation relevant to the modeled P loss reductions from fields and pastures (SnapPlus) and barnyard/dry lot exercise/feedlots (APLE-Lots Beta).

The Foytik Family Farm operation, located in section 26 T37N R1E (Attachment C1), was in dairy production until spring 2020 with a corn/alfalfa/grass rotation on cropped fields and rotation- grazing on pastures. The fields and pastures total approximately 97 acres with 64 acres tillable. Additional nearby rental properties increased the total tillable acres to approximately 111 acres. These rental properties are owned by Anders Lund (NW1/4 SE1/4 S26 T37N R1E), Albert Norek (SW1/4 S23 T37N R1E), and Richard Norek (NE1/4 SW1/4 S23 T37N R1E).

Dairy production typically milked 35 head with 7 dry cows and a heifer herd totaling 34 head. An 8-yr crop rotation of silage corn, alfalfa, and grass/hay included corn for one or two years of the 8-yr rotation with the winter (Nov 16 - May 15) months' manure production (all cattle indoors 24 hr/d) surfaced spread onto future corn fields (approx. 15 acres) via daily haul. The corn and alfalfa plantings were preceded by spring mold board plowing and spring disking. Corn received supplemental fertilizers prior to planting. Alfalfa plantings received supplemental fertilizer after the crop was established.

In summer (May 16 - Nov 15) outdoor manure was delivered to pastures during grazing of the milk and heifer herds and the indoor barn (milking/over night) manure was spread onto the grassiest (old alfalfa) hay fields which were typically scheduled for corn the following year. Rental lands were in the same rotation receiving daily haul winter manure for planned corn fields, but some of the farther rental fields (Richard Norek and Albert Norek) did not receive summer-hauled or grazing manure. The Lund rental fields did receive summer, indoor barn (milking/over night) manure spread onto the most grassy hayfields typically scheduled for corn the following year.

After the sale of all cattle in late spring, 2020, all fields and pastures were converted to permanent, perennial vegetation. Fields and most pastures were either planted or allowed to convert to permanent hayland for harvest, and one pasture was allowed to convert to permanent vegetation/conservation cover (NRCS Technical Standard Code 327). Three barnyard/dry lot exercise/feedlot areas were abandoned when the cattle were sold and converted to permanent, perennial vegetation.

SnapPlus was used to model the P loss reductions attributable to implementation of perennial vegetation, management practices on all fields and pastures. APLE-Lots was used to model P loss reductions on barnyard/dry lot exercise/feedlot areas on the Foytik property.

SnapPlus data gathering and file setup were performed by Dairyland Labs, NRCS-certified Technical Service Providers. Soil samples were collected as per U.W. Ext. publication A2100 by Dairyland Labs staff and Benzel Soil Services, LLC, and soils and manure were analyzed by a Wisconsin-certified lab. Neil Foytik was interviewed by Dairyland Labs staff and Benzel Soil Services, LLC to collect input data.

Additional SnapPlus data input and Nutrient Management Planning was performed by Central Wisconsin Ag Services, LLC, of Alma Center, WI, and Benzel Soil Services. Once a single SnapPlus database file (which included all properties) was finalized, the database file was copied numerous times and renamed to represent each Trade Agreement property owner to generate the owner-specific, SnapPlus reports. In addition, each of those owner-specific, SnapPlus data files

was copied and renamed (8-yr and 1-yr) to represent different crop rotation lengths used to generate pre-trade and post-trade SnapPlus reports, respectively (detailed below). Barnyard/dry lot exercise/feedlot areas evaluated using APLE-Lots were mapped and measured using the U.W.-Madison online version of APLE-Lots and confirmed during onsite evaluations by Benzel Soil Services, LLC, with bare soil area determinations from onsite inspections and photo documentation transferred to aerial photos in the APLE-Lots drawing tool. Lot-specific soil sampling and numerous Foytik interviews provided additional APLE-Lots input data. Soil samples were collected from each barnyard/dry lot exercise/feedlot as per U.W. Ext. publication A2100 by Dairyland Labs staff and analyzed by a Wisconsin certified lab.

A. Pre-trade Whole Field Management Practices SnapPlus Modeling

1. Crops & Tillage

Cropped fields were managed in an 8-yr rotation with one or two years of corn followed by alfalfa, both spring mold board plowed and spring disked. Alfalfa naturally transitioned to grass/hay. The target 8-yr rotation was often varied due to crop yield and weather variability. Field-specific, NRCS cropping history data from 2010-2019 was entered into SnapPlus. Rental properties were cropped with the same rotation; however, red clover replaced alfalfa in some years.

Five pastures were evenly rotation-grazed by the dairy herd for 6 months of the year. One pasture was grazed by the heifer herd for 6 months of the year.

2. Nutrient Management: Manure and Fertilizer

None of the fields were previously soil tested, and no nutrient management plan was in place prior to 2020. Corn received manure and fertilizer. First-year alfalfa received fertilizer. The types and quantities of fertilizer applied to fields were entered into SnapPlus as per Foytik interviews.

Winter manure was produced from the milk herd and heifer herd indoors 24 hr/d and was hauled daily to the fields planned for corn. SnapPlus manure quantities and applications were based on 42 head (35 milking & 7 dry) in the milking herd and 34 head (cows, calves & a bull) in the heifer herd. Summer manure included the heifer herd grazing 24 hr/d for six months in one pasture, the milking herd rotation-grazing (½ the day) in numerous pastures, and the milking herd manure from milking/over night (½ the day) which was spread every other day or three times per week to fertilize the most grassy hayfields (typically those scheduled for corn the next year). There were no manure quantity records maintained, so SnapPlus manure spreading quantities were based on each herd size and each seasonal, estimated quantity was

mathematically distributed evenly on the future corn acres to simulate late fall/winter/spring (all cattle indoors 24 hr/day) manure spreading and mathematically distributed evenly on the most grassy hay fields to simulate non-winter (milk herd ½ the day) manure spreading. Representative manure from the Foytik barn was analyzed by a Wisconsin-certified lab and entered into SnapPlus.

F-17 is a 1.6-acre rental field in the Foytik rotation but is not part of this water quality trade. The pre-trade data was included to accurately account for the evenly-distributed manure spreading because this field consumed part of the Foytik manure spread for corn fertilization.

Lund F-12 is not part of this water quality trade as it may be managed for small-plot vegetable production through the duration of the trade. The Phillips Plating/Lund Trade Agreement requires the entire Lund Farm to comply with the Nutrient Management Plan (NMP).

Foytik FP-14 and Foytik FP-11 are not part of this water quality trade, but will remain in permanent vegetation and comply with the NMP.

SnapPlus Narrative and Crops Reports (NM1), Application Restriction Compliance Check Reports (NM2), Field Data and 590 Assessment Plan Reports (NM3), Nutrient Management Checklists (NM8), and Soil Test Summary Reports (FM6) are presented in Attachment C2. An 8-yr rotation, SnapPlus file generated the baseline, pre-trade SnapPlus reports with rotation length set to eight years to represent years 2012 - 2019.

B. Post-trade Whole Field Management Practices SnapPlus Modeling

1. Crops and Tillage

Since the spring 2020 sale of the cattle, the Foytik, Lund, Albert Norek, and Richard Norek fields and most of the Foytik pastures have been managed in a 1-yr rotation of permanent hay for harvest with no fertilizer or manure. Previous corn fields were seeded to grass/hay mix in 2020. Alfalfa fields were allowed to convert to grass/hay. As per each NMP and each Trade Agreement, there will be no whole field tillage after 2022. The Foytik pastures have been converted to hay for harvest. One pasture (FP-12) has been allowed to convert to permanent vegetation/conservation cover (NRCS Technical Standard Code 327).

2. Nutrient Management: Manure and Fertilizer

All fields and pastures will be managed in an NRCS Technical Standard Code 590 Nutrient Management Plan which will be updated annually as per the Operations & Management section. All fields will be soil testes every four year as per the NMP. Manure spreading will be

prohibited as per the NMP and Trade Agreement. Permanent hayland may receive fertilizer up to the amounts prescribed in the NMP. The SnapPlus fertilizer inputs for years 2024 - 2028 include the maximum U.W.-recommended rates although none of the owners anticipate fertilizer inputs to be that high.

With the sale of all cattle on the Foytik Farm, there will be no transfer of manure P sources to other fields not included in this trade or any fields owned, farmed or otherwise controlled by Foytik.

SnapPlus Narrative and Crops Reports (NM1), Application Restriction Compliance Check Reports (NM2), Field Data and 590 Assessment Plan Reports (NM3), Nutrient Management Checklists (NM8), and Soil Test Summary Reports (FM6) are presented in Attachment C2. A 1-yr rotation, SnapPlus file generated the post-trade SnapPlus reports with rotation length set to one year to represent crop years 2024 - 2028. Another 5-yr rotation, SnapPlus file with the rotation length set to five years generated a single post-trade, Field Data and 590 Assessment Plan Report rather than generating five separate reports to represent each year of the 2024 - 2028, 1-yr rotation.

C. SnapPlus Whole Field Phosphorus Reduction

Potentially tradeable phosphorus (PTP) from all fields and pastures was quantified using SnapPlus. The spreadsheet version of the SnapPlus P Trade Report was used to calculate the rotation average PTP of each field for the pre-trade years 2012 through 2019 and the post-trade, WPDES permit span of 2023 through 2028 (crop years 2024 through 2028). SnapPlus P Trade Reports are presented in Attachment D. Subtracting the average of each field's post-trade PTP (2024 -2028) from the respective pre-trade, rotation average PTP (2012-2019) yielded each field's P loss reduction attributable to the post-trade, whole field management practice changes.

Tables 2a - d show SnapPlus, field-specific, pre- and post-implementation PTP report values, pre- and post-implementation PTP rotation averages, and the respective P loss reductions.

The 2012-2019 and the 2024-2028 PTP values are also present in the SnapPlus P trade reports (Attachment D) showing all years between 2012 and 2029. The 2012-2019 PTP report was generated with each field's rotation length set to 8 years. The 2024-2028 PTP report was generated with each field's rotation length set to 1 year during the 52-year permit period. Albert Norek F-22 has been in permanent, perennial vegetation with no tillage or manure since before 2012.

Table 2a. Foytik SnapPlus, field-specific, pre- and post-implementation PTP values, pre- and post-implementation PTP rotation averages, and the respective P loss reductions.

Field	Acres	PTP 2012	PTP 2013	PTP 2014	PTP 2015	PTP 2016	PTP 2017	PTP 2018	PTP 2019	PTP 2024	PTP 2025	PTP 2026	PTP 2027	PTP 2028	2012-2019 Average	2024-2028 Average	Reduction
F1	5.4	48.1	11.4	2.8	2.1	1.6	1.2	1.9	29.8	1.1	1.0	0.9	0.9	0.8	12.4	0.9	11.4
F2	6.9	18.0	4.2	2.7	1.8	1.3	1.0	1.1	40.3	0.9	0.8	0.7	0.7	0.6	8.8	0.8	8.0
F3	10.6	1.6	1.7	104.5	24.7	6.7	4.2	2.6	2.8	2.0	1.9	1.8	1.7	1.6	18.6	1.8	16.8
F4	11.3	0.8	0.4	0.2	0.4	167.1	65.8	10.2	4.1	0.6	0.6	0.7	0.7	0.8	31.1	0.7	30.5
F5	6.0	0.7	0.6	1.1	38.2	8.3	2.2	1.5	0.9	0.2	0.2	0.1	0.1	0.1	6.7	0.2	6.6
F6	7.2	3.5	73.4	15.0	4.6	3.5	2.8	2.3	1.9	1.4	1.3	1.2	1.1	1.1	13.4	1.2	12.2
FP7	4.5	2.6	1.7	1.2	0.9	0.7	0.9	1.8	1.8	0.5	0.4	0.4	0.3	0.3	1.4	0.4	1.0
FP8	3.2	1.4	1.4	1.5	1.5	1.5	1.5	1.3	1.3	0.5	0.6	0.6	0.6	0.6	1.4	0.6	0.8
FP9	3.4	1.6	1.6	1.7	1.7	1.7	1.8	1.5	1.6	0.8	0.8	0.7	0.7	0.7	1.7	0.7	0.9
FP10	2.3	2.7	2.8	2.8	2.8	2.8	2.7	2.5	2.5	1.5	1.5	1.4	1.4	1.4	2.7	1.4	1.3
FP12	34.0	13.0	12.9	12.8	12.7	12.6	12.5	12.4	12.4	4.5	4.3	4.3	4.2	4.2	12.7	4.3	8.4
Total	94.8	94.1	112.1	146.1	91.3	208.0	96.7	39.1	99.4	14.0	13.4	12.9	12.5	12.1	110.9	13.0	97.9

Table 2b. Lund SnapPlus, field-specific, pre- and post-implementation PTP values, pre- and post-implementation PTP rotation averages, and the respective P loss reductions.

Field	Acres	PTP 2012	PTP 2013	PTP 2014	PTP 2015	PTP 2016	PTP 2017	PTP 2018	PTP 2019	PTP 2024	PTP 2025	PTP 2026	PTP 2027	PTP 2028	2012-2019 Average	2024-2028 Average	Reduction
F13	2.1	32.2	41.8	12.8	2.2	1.4	0.9	0.6	0.5	0.4	0.4	0.4	0.4	0.4	11.6	0.4	11.1
F15	7.2	0.7	0.5	2.3	54.8	15.8	3.5	2.2	1.1	0.5	0.5	0.5	0.5	0.5	10.1	0.5	9.6
F16	4.8	2.0	1.2	0.8	0.6	2.6	4.8	38.5	42.0	1.0	0.9	0.8	0.7	0.7	11.6	0.8	10.7
Total	14.1	34.9	43.6	15.9	57.6	19.8	9.2	41.3	43.7	1.9	1.8	1.7	1.6	1.6	33.2	1.7	31.5

Table 2c. Albert Norek SnapPlus, field-specific, pre- and post-implementation PTP values, pre- and post-implementation PTP rotation averages, and the respective P loss reductions.

Field	Acres	PTP 2012	PTP 2013	PTP 2014	PTP 2015	PTP 2016	PTP 2017	PTP 2018	PTP 2019	PTP 2024	PTP 2025	PTP 2026	PTP 2027	PTP 2028	2012-2019 Average	2024-2028 Average	Reduction
F-18	4.6	0.3	0.2	0.1	0.1	0.0	25.6	4.7	0.8	0.1	0.1	0.1	0.1	0.1	4.0	0.1	3.9
F-19	3.3	0.2	0.1	0.1	0.0	23.2	5.0	0.9	0.4	0.1	0.1	0.2	0.2	0.2	3.7	0.2	3.6
F-20W	0.7	0.1	0.0	4.2	0.9	0.4	0.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.0	0.8
F-21	6.0	0.2	0.1	0.0	0.0	0.0	36.5	6.9	1.1	0.3	0.3	0.4	0.4	0.4	5.6	0.4	5.2
F-22	1.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.0	0.1	0.0
F-23	3.9	7.1	46.0	10.3	3.9	2.9	2.0	1.0	0.6	0.5	0.5	0.5	0.5	0.6	9.2	0.5	8.7
F-24	6.2	4.5	3.0	2.2	1.6	1.3	42.9	71.6	22.5	1.6	1.4	1.4	1.3	1.2	18.7	1.4	17.3
Total	26	12.4	49.5	16.9	6.5	27.9	112.4	85.2	25.5	2.6	2.6	2.6	2.6	2.6	42.0	2.6	39.4

Table 2d. Richard Norek SnapPlus, field-specific, pre- and post-implementation PTP values, pre- and post-implementation PTP rotation averages, and the respective P loss reduction.

Field	Acres	PTP 2012	PTP 2013	PTP 2014	PTP 2015	PTP 2016	PTP 2017	PTP 2018	PTP 2019	PTP 2024	PTP 2025	PTP 2026	PTP 2027	PTP 2028	2012-2019 Average	2024-2028 Average	Reduction
F-20E	3.9	0.3	0.2	0.2	21.1	4.2	2.1	1.6	0.6	0.1	0.1	0.1	0.1	0.1	3.8	0.1	3.7

D. APLE-Lots Modeling of P Loss from Bare Soil Barnyard/Dry Lot Exercise/Feedlot Areas

1. Background

Part of the credits generated for the Phillips Plating Corporation on the Foytik Farm will be from management improvements in barnyard/dry lot exercise/feedlot areas of bare soil that provide no pasture feed value but are significant sources of runoff containing manure and P-rich soil. These barnyard/dry lot exercise/feedlot areas have been abandoned and converted to permanent vegetation, a management practice that will significantly decrease P losses. Heavily grazed pasture areas can be modeled in SnapPlus. SnapPlus is not well suited to properly model P loss from these bare soil barnyard/dry lot exercise/feedlot areas. Pre- and post-trade P losses were quantified using APLE-Lots with support documentation presented in Attachment F.

Summer is the only time the barnyards and feedlots were occupied by cattle on the Foytik Farm, but the soil remained exposed throughout the remainder of the year when cattle were indoors 24 hrs/day. Month-specific cattle occupancy hours with animal type and animal size data are used in this water quality trade to model pre-trade and post-trade total P losses, the difference equaling the P reduction.

2. APLE-Lots

Baseline and post-abandonment total P losses from bare soil barnyard/dry lot exercise/feedlot areas were estimated using APLE-Lots WI Beta, a web-based version of the USDA Annual Phosphorus Loss Estimator developed by Peter Vadas, USDA-ARS, Dairy Forage Research Center, Laura Good and Jim Beaudoin, UW-Madison, Department of Soil Science, and John Panuska, UW Extension, Biological Systems Engineering in May, 2019.

Compared to the USDA spreadsheet verison of APLE-Lots and the WDNR's BARNY phosphorus loss models, the web-based model allows more specific input parameters that more accurately represent the Foytik situation. APLE-Lots generates an edge-of-field P loss value but does not model P delivery to surface waters when a vegetated buffer strip retains some of the runoff nutrients and sediment. The WDNR's BARNY phosphorus loss model reduces the P output value if a filter strip is present but has no accounting for quality of the vegetative buffer strip.

a. Quality of data

APLE-Lots allows for the creation of a "lot" by linking high quality aerial photos (the same as Snap Maps) to the model and allows drawing tools to "click and drag" boundaries for which

square footage area is automatically calculated. The area of the lot is manually re-entered allowing entry of more-accurate, square footage values.

APLE-Lots allows the option to enter values for areas that contribute runoff onto the lot with categorization based on soil hydrologic grouping (Class A, B, C, or D) and land type (farmstead, roof, paved, cropland, grass, woodland or other). Again, the linkage to the aerial photos allows one to draw (and edit) the boundaries of the runoff contributing areas by clicking and dragging and the square footage area is automatically calculated but manually entered.

APLE-Lots allows greater flexibility to specify the lot's percent vegetation and animal hours which can be entered by season, month or year. APLE-Lots allows an entry variable for the percent vegetation which has a significant effect on the P loss when comparing pre-trade, bare soil with post-trade, 100% vegetation. APLE-Lots allows more-specific categorized cattle types and animal sizes to generate more-accurate manure production values, including the ability to generate a P loss value when cattle hours are reduced to zero. *(Note: When cattle hours = 0 for the entire year, the model yields a blank in the spreadsheet Total P loss cell.*).

APLE-Lots also allows input values for site-specific soil test results for soil test P (Bray) and soil organic matter (OM), rather than less accurate default values.

APLE-Lots has: 1) no option to attempt to estimate the additional impacts of the manure spillage, extreme soil disturbance from wheel traffic, and runoff from loading and daily hauling of manure, 2) no option to account for stream bank damage caused by cattle foot traffic when cattle are in the stream, and 3) no option to account for manure deposited directly into the waters (all of which occurred on the Foytik lands, thus resulting in a certain underestimation on P losses entering the river).

b. Input data

Baseline conditions were established with information from 1) lot-specific soil sampling and analysis by a certified lab, 2) bare soil area determinations from onsite inspections and photo documentation transferred to aerial photos in the APLE-Lots drawing tool, and 3) numerous Foytik interviews.

The only difference between pre- and post-trade input values was the percent vegetated and the number of cattle occupancy hours. A pre-trade value of 1% vegetated was entered for all bare soil areas simply to avoid debate and uncertainty from claiming 0% vegetation. Post-trade percent vegetated was set to 100%.

Pre-trade cattle occupancy hours in each bare soil barnyard/dry lot exercise/feedlot area are described below. For half of each year, when all animals were housed inside, the barnyards were not occupied by animals, yet the bare soil remained susceptible to erosion throughout the year. Post-trade cattle occupancy hours were set to a single 150 lbs calf 1 hr/day in June because setting the value to zero animals across the entire year yielded a blank in the APLE-Lots, total P loss, spreadsheet cell.

Table 3. Pre-trade baseline conditions of Foytik bare soil barnyard/dry lot exercise/feedlot areas.

Name	FP-10Runway	FP-12 Lot	FP-9 Lot
Precipitation (in/yr)	33	33	33
Soil Test P (ppm)	453	270	197
Soil OM (%)	6.2	5.9	4.6
Bare Soil Lot Area (sq. ft.)	11,700	15,800	2000
Days between cleanouts	365	365	365
Contributary Area (sq. ft.)	30,000	0	15,300
Roof Contributary Area	4,700	0	2,500
Percent vegetation	1	1	1
Soil Hydrologic Class	B/C	C	C

All barnyard/dry lot exercise/feedlot input data, P loss report spreadsheet results, maps and aerial photos, and photo documentation of the various areas are presented in Attachment F.

3. FP-10 Runway

FP-10 Runway is a barnyard lot (mapped as dry lot exercise area in SnapPlus) used by the milking herd in summer while walking to and from the barn twice a day and to access drinking water. From approximately November 15 until May 15th there are no cattle on FP-10 Runway, but APLE-Lots was used to model the P loss based on 1% vegetated bare soil with zero cattle hours. In addition, this barnyard bare soil is constantly disturbed by tire traffic of the manure loading and hauling with the associated manure spillage. Manure is hauled every two or three days in the summer (manure from the milking herd indoors for ½ the day) and hauled every day in the winter (manure from both the milking and heifer herds indoors 24 hr/d) from two staging locations. While the soil may be frozen for much of the winter, fresh manure is spilled every day in these areas, remaining frozen until the spring thaw.

Total occupancy time for the milk herd is estimated at 1 hr/d for six months (travel and water access time). The animal types and sizes are detailed in Appendix F. APLE-Lots does not allow half month entries, so the full months of June through November represent the last half of May through the first half of November. The irregular shape of the mapped bare soil is supported by

the photo documentation. The hoof and wheel trails provide channelized flow which bypasses any of the downslope vegetated areas resulting in direct delivery to the stream.

If the APLE-Lots P loss value is an accurate estimate of the P loss from 1 herd hr/d for half the year, it is very likely an underestimate of the P loss from this barnyard, given there is no accounting for the additional impacts of year-round manure staging, hauling, and spilling.

The contributing area upslope of FP-10 Runway was mapped (and underestimated) in APLE-Lots based on the onsite investigations and aerial photos. The area of the Billboy soil mapping unit hydrologic class was set to C with type set as farmstead (areas of lawn, driveways, grass, and cattle walkway areas) and the Glidden soil mapping unit hydrologic class was set to B with type set as grass for the contributing area adjacent to the west end of the walkway. Part of the contributing area just upslope from the boundary of FP-10Runway is heavily trafficked showing some gully erosion. The roof contributing area for FP-10 Runway was also underestimated by mapping the footprint shown on the aerial photos.

Without cattle, the area will convert to permanent vegetation (confirmed by semi-annual inspections in 2022 and 2023) and may or may not be mowed for aesthetic appeal.

4. FP-9 Lot

FP-9 Lot is a small patch and walkway of bare soil with direct conduit to the river via the culvert under Elk River Rd. From approximately November 15 until May 15 there are no cattle on FP-9 Lot, but APLE-Lots was used to model the P loss based on 1% vegetated bare soil with zero cattle hours. During 1/5 of the grazing season the dairy herd concentrates in this portion of a necked-down, walk-way area because of shade. The occupancy time for the herd was estimated at 2 hr/d, and the P loss value was then reduced by a factor of 2/5 to represent the two of five rotation-grazing pastures (FP-8 & FP-9) used by the dairy herd in the summer. The herd does not have access to this area when grazing the other three pastures (FP-7, FP-10, & FP-11) although the bare soil remained exposed throughout the year. The animal types and sizes are detailed in Appendix F.

The contributing area upslope of FP-9 Lot was mapped and underestimated in APLE-Lots based on the onsite investigations and aerial photos with the Billboy soil mapping unit hydrologic class set to C and the type set to farmstead. The roof contributing area for FP-9 Lot was underestimated by mapping the footprint shown on the aerial photos.

Without cattle, the area will become part of FP-9 with permanent hayland vegetation for hay harvest (confirmed by semi-annual inspections in 2022 and 2023).

5. FP-12 Lot

FP-12 Lot is part of the heifer herd summer pasture where bare soil is the result of animal traffic concentrated around early and late season supplemental feed and a full season mineral block. The north and south ends of the bare soil areas extend to within 20 ft. of the stream with the cattle having free access to the river, but a conservatively-sized area mapped in APLE-Lots (approx. 300 ft. X 50 ft.) represents the more consistently-bare soil area of the "mapped feedlot." Here the heifer herd is present 24 hr/d for six months, grazing in the surrounding partially-vegetated and fully-vegetated FP-12 pasture. Based on Foytik interviews, the feedlot is estimated to have each animal occupying the area for 8 hr/d during early and late season when supplemental feed is provided (May, Sep, Oct, Nov) and 6 hours/day in mid-summer when cattle are actively grazing more of the natural pasture grass. APLE-Lots does not allow half-month entries, so the full months of June through November represent the last half of May through the first half of November. The animal types and sizes are detailed in Appendix F.

From approximately November 15 until May 15th there are no cattle on FP-12 Lot, but APLE-Lots was used to model the P loss based on 1% vegetated bare soil with zero cattle hours. Photo documentation from early spring 2019 and 2020 shows how the bare soil reappears in spring indicating the bare soil area was fully exposed as the cattle were removed from the area in the previous fall. The cattle traffic and bare soil are the worst in spring and fall when erosion is the worst due to supplemental feeding and the mineral block concentrating the animals. Percent vegetation varies as summer growth advances, but late summer/fall cattle traffic again increases the size of the bare soil area that remains exposed in late fall, winter, and spring. In spring the seasonally high river water inundates some of the bare soil areas adjacent to the feedlot, and the surface water encroaches to within 15 ft. of the feedlot with only a partially-vegetated, steep slope between the feedlot and the surface water. During the summer there is a vegetated, partially-functional buffer strip between the feedlot and the river. Although the vegetation of the buffer strip expands during summer, that is the season when the cattle are grazing and traversing the steep slope to access the river and the adjoining pasture.

The APLE-Lots annual P output value of FP-12 Lot is presented in Attachment F. Half of the APLE-Lots annual P loss value (25.7 lbs) was reduced by 27% to represent the filter strip's impact on the edge-of-field P loss for ½ of the year. The 27% value is supported by the BARNY spreadsheet calculation that lowered the annual P loss value by 27% when a similarly-sized feedlot included a 300 ft. X 20 ft. buffer area with a 33% slope.

Although SnapPlus is used to model P loss from the pasture area (the adjoining, partially-vegetated, downslope filter strip beyond the feedlot edge), neither SnapPlus nor APLE-Lots can estimate the additional P loss attributed to this feedlot's cattle foot traffic damage to the stream bank or the quantity of P added to the stream by the deposition of manure directly into the stream by the cattle.

Under the post-trade conservation cover management practice (NRCS Technical Standard Code 327), without cattle, the lot will regenerate to natural grasses and wild vegetation as part of FP-12, the 34-acre pasture (confirmed by semi-annual inspections in 2022 and 2023).

E. APLE-Lots Phosphorus Reduction

Table 4 presents the pre- and post-trade annual P loss values generated by APLE-Lots and the P loss reduction resulting from the management practice implementation.

Table 4 APLE-Lots P losses from Foytik barnyards and feedlot.

Name	FP-10 Runway	FP-9 Lot	FP-12 Lot
Pre-trade APLE-Lots P loss	73.1	28.3*	22.2**
Post-trade APLE-Lots P loss	1.9	0.3	0.3
P Loss Reduction	71.2	28.0	21.9
* APLE-Lots results multiplied by 2/5			
** 27% reduction applied to half the annual APLE-Lots results			

F. Trade Ratios

Guidance-prescribed factors were applied to all P reductions.

1. Delivery: The SPARROW model delivery fractions of the Elk Lake catchment and the upstream catchments containing the Foytik Farm were used to calculate the delivery factor as per WDNR's Appendix G guidance. The Elk Lake catchment delivery fraction = 0.81, the most upstream Foytik & Lund catchment delivery fraction = 0.68, the Delivery Fraction = 0.84, and the Delivery Factor = 0.19.

2. Downstream: All P reduction generators are located upstream from the Phillips Plating Corporation outfall making the downstream factor = 0 for all reduction practices.

3. Equivalency: Phosphorus reductions are being applied only to phosphorus credits making the equivalency factor = 0.

4. Uncertainty: Whole field management practices changed from dairy production to permanent hayland allows the application of an uncertainty factor of 1. Because the barnyard/dry lot exercise/feed lot areas FP-10 Runway and FP- 9 Lot adjoin the river or have a direct conduit to the river and this proximity to the surface water threatens with direct, unfiltered delivery to the surface water (during most

of the year), an uncertainty factor of 1 was applied. Because the P loss modeled by APLE-Lots was reduced by 2/5 to account for rotational-grazing on FP-9 (addressed above), an uncertainty factor of 1 was applied to the FP-9 P loss reduction. Because ½ the P loss modeled by APLE-Lots was reduced by 27% to account for the partially-functional filter strip downslope of FP-12 Lot (addressed above), an uncertainty factor of 1 was applied to the FP-12 Lot P loss reduction.

G. Credits

The P loss reductions on acres of the Foytik Family Farm operation are attributable to changes in whole field management and barnyard/dry lot exercise/feedlot abandonment. The sum of the individual factors applied to these P reductions equals 1.19 (1 uncertainty + 0.19 delivery), however the minimum allowable trade ratio of 1.2:1 was used to calculate credits and ensure a water quality improvement. Credits generated by whole field management changes and barnyard/feedlot abandonment and conversion to permanent vegetation are based on this ratio of 1.2:1. SnapPlus P loss reduction summaries are presented in Table 5a - d and APLE-Lots P loss reduction summaries are presented in Table 6. Table 7 presents the credits summary.

Table 5a. Foytik SnapPlus P loss reductions and resulting credits generated.

Field	Acres	Reduction	Ratio	Credits
F1	5.4	11.4	1.2	9.5
F2	6.9	8.0	1.2	6.7
F3	10.6	16.8	1.2	14.0
F4	11.3	30.5	1.2	25.4
F5	6.0	6.6	1.2	5.5
F6	7.2	12.2	1.2	10.1
FP7	4.5	1.0	1.2	0.9
FP8	3.2	0.8	1.2	0.7
FP9	3.4	0.9	1.2	0.8
FP10	2.3	1.3	1.2	1.1
FP12	34.0	8.4	1.2	7.0
	94.8	97.9	1.2	81.6

Table 5b. Lund SnapPlus P loss reductions and resulting credits generated.

Field	Acres	Reduction	Ratio	Credits
F13	2.1	11.1	1.2	9.3
F15	7.2	9.6	1.2	8.0
F16	4.8	10.7	1.2	9.0
	14.1	31.5	1.2	26.3

Table 5c. Albert Norek SnapPlus P loss reductions and resulting credits generated.

Field	Acres	Reduction	Ratio	Credits
F-18	4.6	3.9	1.2	3.2
F-19	3.3	3.6	1.2	3.0
F-20W	0.7	0.8	1.2	0.6
F-21	6.0	5.2	1.2	4.4
F-22	1.3	0.0	1.2	0.0
F-23	3.9	8.7	1.2	7.2
F-24	6.2	17.3	1.2	14.4
	26	39.4	1.2	32.9

Table 5d. Richard Norek SnapPlus P loss reduction and resulting credits generated.

Field	Acres	Reduction	Ratio	Credits
F-20E	3.9	3.7	1.2	3.1

Table 6. APLE-Lots P loss reductions and resulting credits generated.

Name	FP-10 Runway	FP-9 Lot	FP-12 Lot
P Reduction	71.2	28.0	21.9
Trade Ratio	1.2	1.2	1.2
P Credits Generated	59.3	23.3	18.3

Table 7. Summary of credits by landowner and model.

	Name	
	Foytik	81.6
	Lund	26.3
	Albert Norek	32.9
	Richard Norek	3.1
SnapPlus Credits Sub-total		143.8
	Foytik FP-10 Runway	59.3
	Foytik FP-9 Lot	23.3
	Foytik FP-12 Lot	18.3
APLE-Lots Credits Sub-total		100.9
	Total Credits	244.8

IV. Operations & Maintenance Tracking

A. Implementation

The goal of this Operations & Maintenance Tracking plan is to ensure permanent perennial vegetation persists on fields involved in this water quality trade. Conversion to permanent perennial vegetation from a dairy production rotation is the management practice that reduced P losses to generate the credits of this trade. Neil Foytik, Anders Lund, Albert Norek, and Richard Norek were approached in 2019 to make changes in whole field management to generate credits and, in Jan, 2020, entered into a binding, written agreement. Four WQT Management Registration Forms 3400-207 (Attachment B) were submitted to WDNR in Feb, 2020, to establish baseline conditions prior to implementation of the management practices.

The Foytik Family Farm ceased dairy production in May, 2020. That spring all Foytik, Lund, Albert Norek, and Richard Norek fields of corn stubble were mold board plowed and disked to incorporate manure from the previous winter and prepare the appropriate seed bed for planting with a pasture/hay mixture of (grasses) to establish the permanent, hayland crop (NRCS Technical Standard Code 340) or cover crop/conservation cover (NRCS Technical Standard Code 327). No fertilizers were applied. Alfalfa fields are expected to convert to grass and were not tilled. All Foytik pastures were considered suitable for hay harvest and were not tilled. One pasture was allowed to convert to permanent vegetation but not for harvest. No grass hayfields were tilled but hay harvest was continued.

All fields will be entered into an NRCS Technical Standard Code 590, DATCP-compliant, nutrient management plan (NMP) and will be maintained in compliance with the guidelines as per NRCS Technical Standard Code 340 (cover crop 90% vegetation) or NRCS Technical Standard Code 327 (conservation cover). Each NMP and Trade Agreement (with its requirement to follow the NMP) explicitly limits cropping to permanent perennial vegetation. In this reduced tillage management rotation:

1. Whole-field tillage is not allowed.
2. Manure applications are not allowed.
3. Nutrient applications greater than prescribed in the NMP are not allowed.
4. Minimum tillage is only allowed to repair unanticipated vegetation failures when it is judged necessary to minimize the risk of erosion in order to accelerate the vegetation restoration process.

Each Trade Agreement between the Phillips Plating Corporation and the respective landowner mandates each future owner will be bound by the Trade Agreement for the life of the Trade

Agreement. Each renter or hay harvest "buyer" will be informed of this contractual agreement which mandates vegetative cover maintenance, and each will be required to sign an acknowledgment form to document the renter's awareness and understanding.

As the WPDES permit is scheduled to be re-issued on October 1, 2023 (after the 2023 growing season), the permanent hayland vegetation is expected to be fully established, the P losses will have decreased, and credits are expected to be generated starting when this water quality trading plan is approved by WDNR and incorporated into the reissued permit for the length of the permit.

B. Management Practices

Permanent vegetation and the reduction in tillage are the management practices installed to generate the credits and are key components of the SnapPlus modeling used to quantify the reduced, post-trade P losses.

Critical to the continued maintenance of installed management practices are inspections and the proper completion of the Phillips Plating Corporation WQT Tracking Inspection form to periodically document the permanent vegetation status of each field and confirm the management practices have been installed and are properly maintained.

Part of the inspection requires documentation showing:

-an updated NMP,
-there have been no nutrient applications greater than allowed in NMP,
-there has been no whole-field tillage,
-there have been no manure applications,
-any potential "threats to permanent vegetation" issues have been identified and each has been or will be addressed as described in the Response Procedures section below.

1. Management Practices Metrics

The NRCS Technical Standards Code 590 Nutrient Management, NRCS Code 340 Cover Crop, and NRCS Code 327 Conservation Cover are the applicable whole field management standards referenced in this water quality trade, but it is the 90% vegetative cover standard that will apply as the metric to all fields. The 90% vegetative cover standard will apply to all field units in the water quality trade regardless of other technical standards applied.

Bare soil, dead perennial vegetation, gully erosion, and 100-yr/24-hr storm events are potential "threats to permanent vegetation" issues requiring attention as per the Response Procedures section below.

Should any field's percent living vegetation drop below 90% coverage due to any cause, WDNR notification with a restoration plan is required and monthly inspections during non-frozen months will be required until vegetation is re-established as per the Response Procedures section below.

Bare soil (<10%) or crop dieback caused by drought, frost, chemical burn, deposition from upslope, wheel ruts, or off-road vehicle damage (vandalism, harvest crop transport) will be addressed as per the Response Procedures section below.

Gully erosion of any length with a cross section area greater than 144 in^2 will require WDNR notification with a plan to restore and inspect monthly during non-frozen months until restored as per the Response Procedures section below. Because the permanent hayland will promote infiltration and the slopes and sizes of micro-watersheds are relatively small on these properties, even areas susceptible to concentration flow are not expected to result in gully erosion (cross section area greater than 144 in^2) or the delivery of unacceptable quantities of sediment into waterways.

The occurrence of an extreme weather event (a 24-hr, 100-yr storm event or greater) requires a timely, single inspection with special notation to record the reason for such a non-scheduled inspection and needed restoration (if any). A 24-hr, 100-yr storm event would be 6.56 in. of rain as per :

https://hdsc.nws.noaa.gov/hdsc/pfds/pfds_map_cont.html?bkmrk=wi

2. Inspections

To verify implementation and proper maintenance of practices used to generate trading credits, Phillips Plating staff, a consultant, or a certified Technical Service Provider will perform inspections of all fields.

The inspector will inspect the fields generating the phosphorus reduction credits to confirm the permanent vegetative cover management practices on all fields, former pastures, and barnyard/dry lot exercise/feedlots and confirm the management practices are being appropriately maintained. The inspection will confirm compliance based on the guidance of the appropriate standards (the NMP and 90% vegetation).

The inspection will include photo documentation of each field's vegetative cover and photo-documentation of any potential "threats to permanent vegetation" issues.

The inspector will complete and certify a WQT Tracking Inspection form which includes:

a. Name of the inspector,
b. Inspection date,
c. Crop status,
d. Permanent vegetation confirmation,
e. Confirmation of no manure applications,
f. Confirmation of the updated NMP with a copy of the most recent updated 590 NMP checklist,
g. The appropriate standards set forth in this WQT plan and whether the enrolled fields have met those standards (*Note: Confirmation of the updated NMP will document compliance with 590 standard*),
h. Any identified potential "threats to permanent vegetation" issues,
i. When and how potential "threats to permanent vegetation" issues are to be addressed as per the Response Procedures section below,
j. Notes of any adjacent, upslope property, land use changes that could affect stormwater delivery to the enrolled lands,
k. Date of most recent 100-yr/24-hr storm event,
l. A determination whether or not monthly inspection of any field is needed,
m. Date of next required inspection,
n. Notes/instructions,
o. Inspector certification of both the inspection and transmission to the Phillips Plating Corporation of each completed WQT Tracking Inspection form, photo-documentation, any potential "threats to permanent vegetation" issues identified, any WDNR notification requirements, and any restoration needs.

Inspection documentation will be submitted to the WDNR in the final stages of the water quality trading plan approval process and WPDES reissuance and in each WPDES annual report no later than January 31st of each year following permit reissuance.

Annual inspections will be performed approximately two weeks before the USDA Price County Soil Survey first frost date using the Phillips Plating Corporation WQT Tracking Inspection form with photo documentation. Inspections of all fields will be performed by completing the WQT Tracking Inspection form as per the requirements and definitions in the Response Procedures section below. Results of annual inspections will be reported to the WDNR in the annual report.

Semi-annual inspections will start in the fall of 2022 to ensure all fields are properly vegetated prior to entering into the Oct 1, 2023, WPDES permit. Semi-annual (spring and fall) inspections of all fields will be performed by completing a WQT Tracking Inspection form as per the

requirements and definitions listed in the Response Procedures section below. Inspection results will be reported via a 2022 annual report and by mid-September, 2023.

Monthly inspections will be performed by completing a WQT Tracking Inspection form as per the requirements and definitions listed in the Response Procedures section below. Inspection results of monthly inspections which require WDNR notification will be reported via monthly discharge monitoring report (DMR) supplements. Other monthly inspection reports will be reported via the annual report.

The Trade Agreement between the Phillips Plating Corporation and each owner states WDNR Water Quality Trading staff have the right to enter involved fields at any time upon given reasonable notice to the Phillips Plating Corporation and the landowner to inspect the fields for management practice compliance.

3. Response Procedures

Any inspection documentation of potential "threats to permanent vegetation" issues must be categorized into one of the following:

a. **> 10% bare soil, whether a single, contiguous area or multiple areas summing to >10% of the whole field**:
   (1) Requires WDNR notification with a written plan (the completed form) to immediately restore vegetation as weather permits,
   (2) Requires monthly inspection during non-frozen seasons until vegetation is restored and re-established,
   (3) Requires monthly reporting via DMR until vegetation is restored andre-established.

b. **<10% of the whole field but >10% bare soil in any 5-acre area**:
   (1) If there **is** sediment deposition beyond the field edge or there **is** potential for sediment to be transported beyond the field edge,
      (a) documentation of restoration plan (the form) and implementation (photos and next month's form) is required,
      (b) monthly inspections during non-frozen seasons are required until restoration is complete,
      (c) all documentation included in annual report.
   (2) If there has been **no** sediment transport beyond the field edge and there is **no** potential for sediment transport beyond the field edge,
      (a) restore as needed,
      (b) monthly inspections are required until restored,
      (c) monthly inspection reports to be included in the annual report.

c. **Bare soil but no 5-acre area has >10% bare soil**:
   (1) Restore as needed,
   (2) Any erosion caused by concentrated flow (erosion < 144 in^2 cross section) that delivers sediment beyond the field edge must be re-vegetated as soon as possible.

d. **Dead perennial vegetation >10% of the field, whether a single contiguous area or multiple areas summing to >10% of the whole field**:
   (1) Requires WDNR notification with a written plan to immediately restore vegetation as weather permits,
   (2) Requires monthly inspection during non-frozen seasons until vegetation is restored and re-established,
   (3) Requires monthly reporting via DMR until vegetation is restored and re-established.

e. **Dead perennial vegetation <10% of the whole field**:
   (1) Restore as needed.

f. **Gully erosion:**
   (1) Any gully erosion (> 144 in^2 cross section) must be restored as soon as possible, reported to WDNR with a restoration plan, and be followed by monthly inspections during non-frozen seasons until restored and re-established.

g. **Any 24-hr, 100-yr storm event**:
   (1) Requires a single inspection to be reported via the annual report.

4. Maintenance/Restoration Tools

Any potential "threats to permanent vegetation" issues identified by the inspector must be addressed as described in the Response Procedures section.

Appropriate erosion control and revegetation measures will be employed as per the Response Procedures section, potentially including but not limited to:

a. Mechanical re-leveling,
b. Reseeding,
c. Erosion control water diversion, matting or mulching,
d. Diversion and/or dispersion of upslope, stormwater runoff water,
e. Adding small grain cover crop (oats, winter wheat, buckwheat, rye, etc.) to hayland seed mixes to temporarily reduce the danger of erosion,
f. Tillage with reseeding or tillage with reseeding and erosion control matting or mulching.

Because the reduced tillage (i.e.none) is the basis of the P reductions generating credits, minimum tillage is only allowed to repair unanticipated vegetation failures when it is judged necessary to minimize the risk of erosion in order to accelerate the vegetation restoration process.

C. Reporting & Certification

1. The Phillips Plating Corporation Notification of WDNR

Should the Phillips Plating Corporation become aware that phosphorus reduction credits used or intended for use are not being generated as set forth in this WQT plan, the Phillips Plating Corporation will verbally notify WDNR within 24 hours and notify WDNR in writing within five days of becoming aware of the non-compliance issues.

Both notifications will include the nature of the issue, a description of how the issues will be addressed, and a restoration plan to address the issues.

2. Monthly Certification and Monthly Reporting

Each month the Phillips Plating Corporation will certify that management practices installed are being maintained consistent with this water quality trading plan by making the following statement as a comment in the monthly DMR:

> "I certify that to the best of my knowledge the management practices approved as the source of phosphorus reduction credits are installed, established and properly maintained."

If the Phillips Plating Corporation cannot certify that statement, potential "threats to permanent vegetation" issues requiring WDNR notification and documentation of restoration plans and a record of restoration as per the Response Procedure section shall be included in monthly DMR reporting until the monthly statement can again be certified.

3. Annual Reporting

The Phillips Plating Corporation shall report to WDNR by January 31 of each year. The following will be included in the annual report:

a. The number of phosphorus reduction credits (lbs/month) used each month of the previous year to demonstrate WPDES permit compliance;
b. Summary text of all potential "threats to permanent vegetation" issues and how each was addressed;

c. All completed WQT Tracking Inspection forms;
d. Photographs of the inspected fields' permanent vegetative cover, photographs of any potential "threats to permanent vegetation" and photographs documenting restoration;
e. Identification of noncompliance or failure to implement any terms or conditions of WPDES permit WI-0054364 with respect to water quality trading that have not been reported in monthly DMRs or did not require WDNR notification.

V. Attachments

A. Notice of Intent to Trade

B. Registration Form

C. Supporting Maps & SnapPlus Field Reports

1. C1: Properties & Snap Maps
2. C2: SnapPlus Field Reports

D. SnapPlus P Trade Reports

E. Water Quality Trading Checklist

F. APLE-Lots WI Beta Support Documentation for Barnyard/DryLot Exercise/Feedlot Areas

Attachment A. Notice of Intent to Trade

State of Wisconsin
Department of Natural Resources
101 South Webster Street
Madison WI 53707-7921
dnr.wi.gov

Notice of Intent to Conduct Water Quality Trading

Form 3400-206 (1/14)

Notice: Pursuant to s. 283.84, Wis. Stats., and ch. NR 217 Wis. Adm. Code, this form must be completed by any WPDES permittee that is using water quality trading as a method of complying with a permit limitation. Failure to complete this form would not result in penalties. Personal information collected will be used for administrative purposes and may be provided to requesters to the extent required by Wisconsin's Open Records Law (ss. 19.31 - 19.39, Wis. Stats.).

Applicant Information

Permittee Name	Permit Number	Facility Site Number
Phillips Plating Corporation	WI- 0041149	

Facility Address	City	State	ZIP Code
P.O. Box 72	Phillips	WI	54555

Project Contact Name (if applicable)	Address	City	State	ZIP Code
Darin Baratka	P.O. Box 72	Phillips	WI	54555

Project Name: Phillips Plating Corporation WWTP P Compliance

Receiving Water Name	Parameter(s) being traded	HUC 12(s)
Elk Lake	Phosphorus	070500030107

Is the permittee in a point or nonpoint source dominated watershed? (See PRESTO results - http://dnr.wi.gov/topic/surfacewater/presto.html)
- ○ Point source dominated
- ◉ Nonpoint source dominated

Credit Generator Information

Credit generator type (select all that apply):
- ☐ Permitted Discharge (non-MS4/CAFO)
- ☐ Permitted MS4
- ☐ Permitted CAFO
- ☐ Urban nonpoint source discharge
- ☒ Agricultural nonpoint source discharge
- ☐ Other - Specify:

Are any of the credit generators in a different HUC 12 than the applicant?
- ◉ Yes; HUC 12: 070500030106
- ○ No
- ○ Unsure

Are any of the credit generators downstream of the applicant?
- ○ Yes
- ○ No
- ◉ Unsure

Will a broker/exchange be used to facilitate trade?
- ○ Yes; Name:
- ◉ No
- ○ Unsure

Point to Point Trades (Traditional Municipal / Industrial Discharge, MS4, CAFO)

Discharge Type	Permit Number	Name	Contact Address	Is the point source credit generator currently in compliance with their permit requirements?
○ Traditional ○ MS4 ○ CAFO				○ Yes ○ No ○ Unsure
○ Traditional ○ MS4 ○ CAFO				○ Yes ○ No ○ Unsure
○ Traditional ○ MS4 ○ CAFO				○ Yes ○ No ○ Unsure
○ Traditional ○ MS4 ○ CAFO				○ Yes ○ No ○ Unsure
○ Traditional ○ MS4 ○ CAFO				○ Yes ○ No ○ Unsure

Point to Nonpoint Trades (Non-permitted Agricultural, Non-Permitted Urban, etc.)

List the practices that will be used to generate credits:

Long term conversion of agricultural barnyards, feedlots, fields and pastures to perennial vegetation, milkhouse washwater elimination, and stream bank improvement starting in the spring of 2020.

Method for quantifying credits generated:
- ☐ Monitoring
- ☒ Modeling, Names: SnapPlus, Aple-lots
- ☒ Other: as needed and approved

Projected date credits will be available: 04/01/2020

The preparer certifies all of the following:

- I am familiar with the specifications submitted for this application, and I believe all applicable items in this checklist have been addressed.
- I have completed this document to the best of my knowledge and have not excluded pertinent information.

Signature of Preparer	Date Signed
	1-15-2020

Authorized Representative Signature

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision. Based on my inquiry of those persons directly responsible for gathering and entering the information, the information is, to the best of my knowledge and belief, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Signature of Authorized Representative	Date Signed
	1-14-2020

Attachment B: Registration Forms

State of Wisconsin
Department of Natural Resources
101 South Webster Street
Madison WI 53707-7921
dnr.wi.gov

Water Quality Trading Management Practice Registration

Form 3400-207 (R 1/14)

Notice: Pursuant to s. 283.84, Wis. Stats., this form must be completed by any WPDES permittee that is using water quality trading as a method of complying with a permit limitation. Failure to complete this form would not result in penalties. Personal information collected will be used for administrative purposes and may be provided to requesters to the extent required by Wisconsin's Open Records Law (ss. 19.31 - 19.39, Wis. Stats.).

Applicant Information

Permittee Name	Permit Number	Facility Site Number
Phillips Plating Corporation	WI- 0041149	

Facility Address	City	State	ZIP Code
P.O. Box 72	Phillips	WI	54555

Project Contact Name (if applicable)	Address	City	State	ZIP Code
Darin Baratka	P.O. Box 72	Phillips	WI	54555

Project Name WPDES
Phillips Plating Corporation WWTP P Compliance: Foytik

Broker/Exchange Information (if applicable)

Was a broker/exchange be used to facilitate trade? ○ Yes ◉ No

Broker/Exchange Organization Name	Contact Name	
Address	Phone Number	Email

Trade Registration Information (Use a separate form for each trade agreement)

Type	Trade Agreement Number	Practices Used to Generate Credits	Anticipated Load Reduction	Trade Ratio	Method of Quantification
○ Urban NPS ◉ Agricultural NPS ○ Other	PP-001	Conversion of agricultural barnyards, feedlots, fields and pastures to perennial vegetation and stream bank improvement.	160	1.2:1	SnapPlus APLE lots other

County	Closest Receiving Water Name	Land Parcel ID(s)	Parameter(s) being traded
Price	Little Elk River	See attached map	Phosphorus

The preparer certifies all of the following:

- I have completed this document to the best of my knowledge and have not excluded pertinent information.
- I certify that the information in this document is true to the best of my knowledge.

Signature of Preparer	Date Signed
	1-15-2020

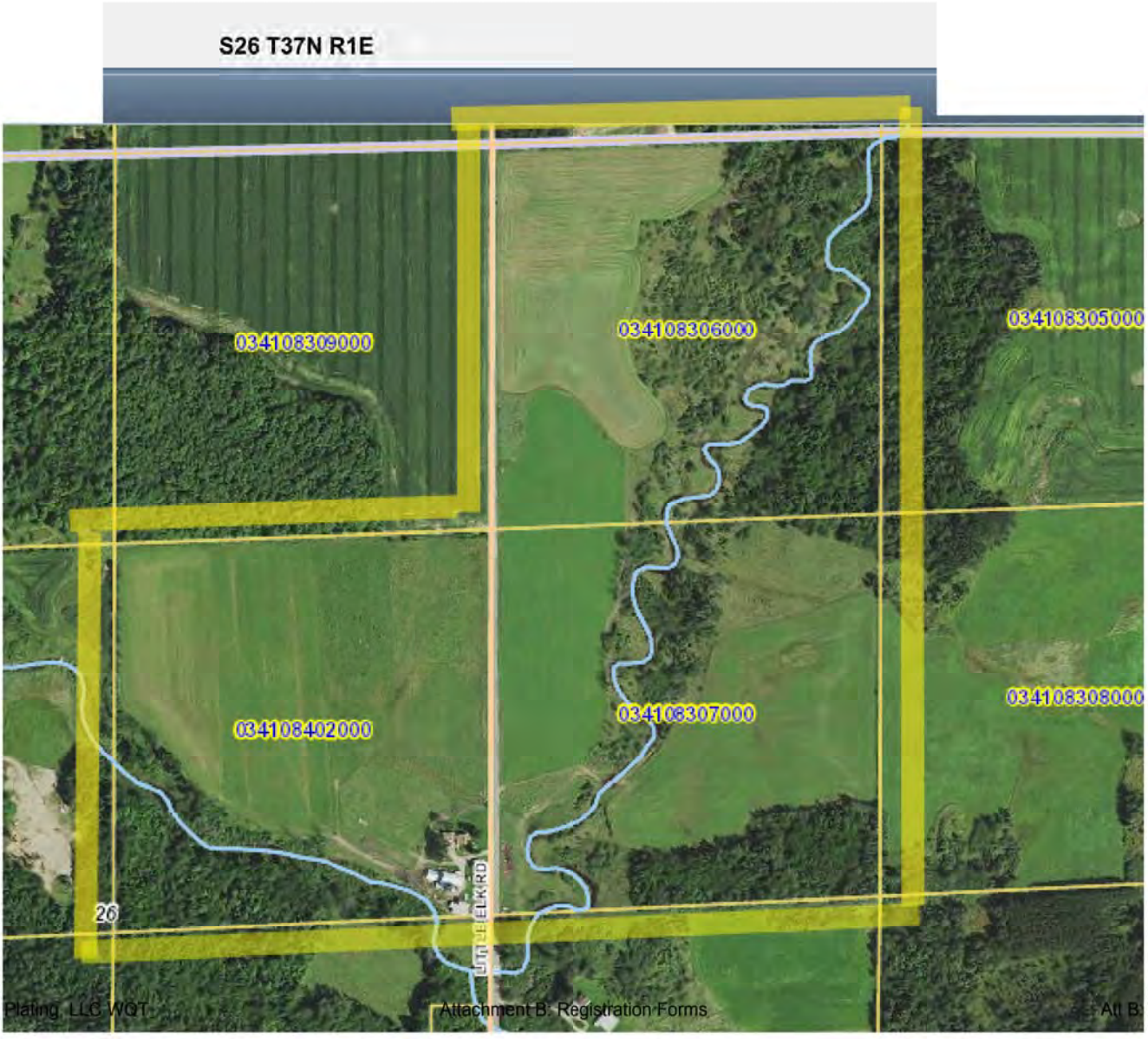
Authorized Representative Signature

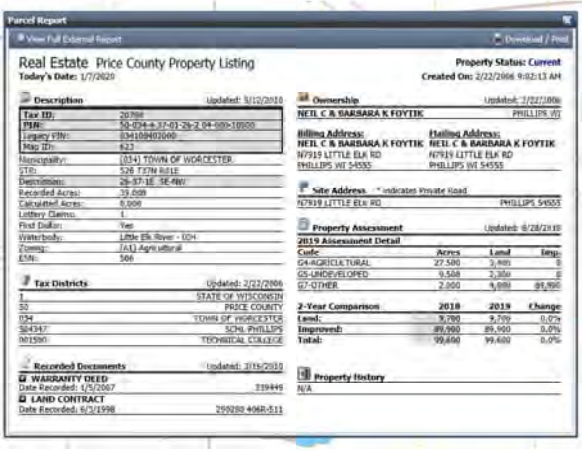
I certify under penalty of law that this document and all attachments were prepared under my direction or supervision. Based on my inquiry of those persons directly responsible for gathering and entering the information, the information is, to the best of my knowledge and belief, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Signature of Authorized Representative	Date Signed
	1-14-2020

Leave Blank – For Department Use Only

Date Received		Trade Docket Number
Entered in Tracking System ☐ Yes	Date Entered	Name of Department Reviewer


S26 T37N R1E
034108309000
034108306000
034108305000
034108402000
034108307000
034108308000
26
LITTLE ELK RD



Parcel Report

Real Estate Price County Property Listing

Today's Date: 1/7/2020

Property Status: Current

Created On: 2/22/2006 9:02:13 AM

Description Updated: 5/12/2010

Tax ID:	20769
PIN:	50-034-4-37-01-26-2 04-000-10000
Legacy PIN:	034108402000
Map ID:	623
Municipality:	(034) TOWN OF WORCESTER
STR:	526 T37N R01E
Description:	26-37-1E SE4W
Recorded Acres:	39.008
Calculated Acres:	0.000
Lottery Claims:	1
First Dollar:	Yes
Waterbody:	Little Elk River - 034
Zoning:	(A1) Agricultural
ESN:	566

Ownership Updated: 2/22/2006

NEIL C & BARBARA K FOYTIK — PHILLIPS WI

Billing Address:	Mailing Address:
NEIL C & BARBARA K FOYTIK	NEIL C & BARBARA K FOYTIK
N7919 LITTLE ELK RD	N7919 LITTLE ELK RD
PHILLIPS WI 54555	PHILLIPS WI 54555

Site Address * Indicates Private Road

N7919 LITTLE ELK RD — PHILLIPS 54555

Property Assessment Updated: 6/28/2010

2019 Assessment Detail

Code	Acres	Land	Imp.
G4-AGRICULTURAL	27.500	3,300	0
G5-UNDEVELOPED	9.508	2,300	0
G7-OTHER	2.000	4,000	89,900

2-Year Comparison	2018	2019	Change
Land:	9,700	9,700	0.0%
Improved:	89,900	89,900	0.0%
Total:	99,600	99,600	0.0%

Tax Districts Updated: 2/22/2006

1	STATE OF WISCONSIN
50	PRICE COUNTY
034	TOWN OF WORCESTER
504347	SCHL-PHILLIPS
001500	TECHNICAL COLLEGE

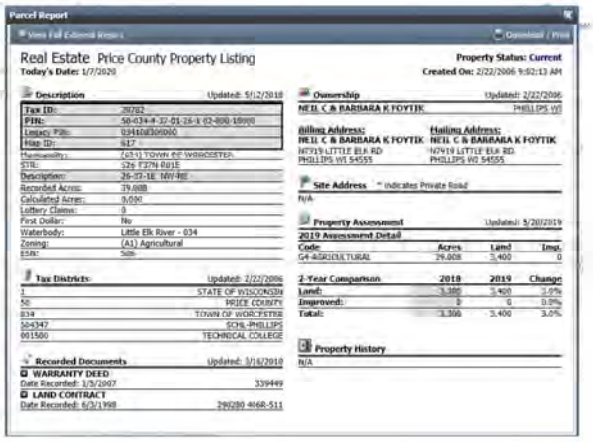
Property History

N/A

Recorded Documents Updated: 3/16/2010

WARRANTY DEED
Date Recorded: 1/5/2007 — 339449

LAND CONTRACT
Date Recorded: 6/3/1998 — 290280 406R-511



Parcel Report

Real Estate Price County Property Listing

Today's Date: 1/7/2020

Property Status: Current

Created On: 2/22/2006 9:02:13 AM

Description Updated: 5/12/2010

Tax ID:	20769
PIN:	50-034-4-37-01-26-1 02-000-10000
Legacy PIN:	034108302000
Map ID:	617
Municipality:	(034) TOWN OF WORCESTER
STR:	526 T37N R01E
Description:	26-37-1E NW4E
Recorded Acres:	39.008
Calculated Acres:	0.000
Lottery Claims:	0
First Dollar:	No
Waterbody:	Little Elk River - 034
Zoning:	(A1) Agricultural
ESN:	566

Ownership Updated: 2/22/2006

NEIL C & BARBARA K FOYTIK — PHILLIPS WI

Billing Address:	Mailing Address:
NEIL C & BARBARA K FOYTIK	NEIL C & BARBARA K FOYTIK
N7919 LITTLE ELK RD	N7919 LITTLE ELK RD
PHILLIPS WI 54555	PHILLIPS WI 54555

Site Address * Indicates Private Road

N/A

Property Assessment Updated: 5/20/2019

2019 Assessment Detail

Code	Acres	Land	Imp.
G4-AGRICULTURAL	39.008	3,400	0

2-Year Comparison	2018	2019	Change
Land:	3,300	3,400	3.0%
Improved:	0	0	0.0%
Total:	3,300	3,400	3.0%

Tax Districts Updated: 2/22/2006

1	STATE OF WISCONSIN
50	PRICE COUNTY
034	TOWN OF WORCESTER
504347	SCHL-PHILLIPS
001500	TECHNICAL COLLEGE

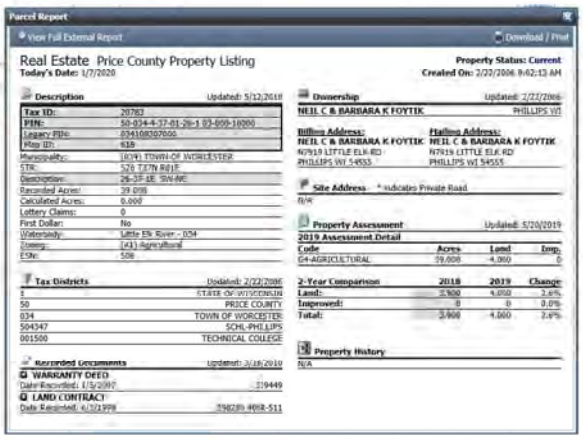
Property History

N/A

Recorded Documents Updated: 3/16/2010

WARRANTY DEED
Date Recorded: 1/5/2007 — 339449

LAND CONTRACT
Date Recorded: 6/3/1998 — 290280 406R-511



Parcel Report

Real Estate Price County Property Listing

Today's Date: 1/7/2020

Property Status: Current

Created On: 2/22/2006 9:02:13 AM

Description Updated: 5/12/2010

Tax ID:	20763
PIN:	50-034-4-37-01-26-1 03-000-10000
Legacy PIN:	034108303000
Map ID:	618
Municipality:	(034) TOWN OF WORCESTER
STR:	526 T37N R01E
Description:	26-37-1E SW4E
Recorded Acres:	39.008
Calculated Acres:	0.000
Lottery Claims:	0
First Dollar:	No
Waterbody:	Little Elk River - 034
Zoning:	(A1) Agricultural
ESN:	566

Ownership Updated: 2/22/2006

NEIL C & BARBARA K FOYTIK — PHILLIPS WI

Billing Address:	Mailing Address:
NEIL C & BARBARA K FOYTIK	NEIL C & BARBARA K FOYTIK
N7919 LITTLE ELK RD	N7919 LITTLE ELK RD
PHILLIPS WI 54555	PHILLIPS WI 54555

Site Address * Indicates Private Road

N/A

Property Assessment Updated: 5/20/2019

2019 Assessment Detail

Code	Acres	Land	Imp.
G4-AGRICULTURAL	39.008	4,000	0

2-Year Comparison	2018	2019	Change
Land:	3,900	4,000	2.6%
Improved:	0	0	0.0%
Total:	3,900	4,000	2.6%

Tax Districts Updated: 2/22/2006

1	STATE OF WISCONSIN
50	PRICE COUNTY
034	TOWN OF WORCESTER
504347	SCHL-PHILLIPS
001500	TECHNICAL COLLEGE

Property History

N/A

Recorded Documents Updated: 3/16/2010

WARRANTY DEED
Date Recorded: 1/5/2007 — 339449

LAND CONTRACT
Date Recorded: 6/3/1998 — 290280 406R-511


F1
F2
FP12
F3
FP8
F5
FP7
F6
FP9
F4
FP9LOT
FP12LOT
37N 1E
FP14
FP11
F16
FP10
FP9LOT
FP10RUNWAY
FP12LOT
37N 1E
s26
FP14
FP11

State of Wisconsin
Department of Natural Resources
101 South Webster Street
Madison WI 53707-7921
dnr.wi.gov

Water Quality Trading Management Practice Registration

Form 3400-207 (R 1/14)

Notice: Pursuant to s. 283.84, Wis. Stats., this form must be completed by any WPDES permittee that is using water quality trading as a method of complying with a permit limitation. Failure to complete this form would not result in penalties. Personal information collected will be used for administrative purposes and may be provided to requesters to the extent required by Wisconsin's Open Records Law (ss. 19.31 - 19.39, Wis. Stats.).

Applicant Information

Permittee Name	Permit Number	Facility Site Number
Phillips Plating Corporation	WI- 0041149	

Facility Address	City	State	ZIP Code
P.O. Box 72	Phillips	WI	54555

Project Contact Name (if applicable)	Address	City	State	ZIP Code
Darin Baratka	P.O. Box 72	Phillips	WI	54555

Project Name
WWTP P Compliance: Lund

Broker/Exchange Information (if applicable)

Was a broker/exchange be used to facilitate trade? ○ Yes ◉ No

Broker/Exchange Organization Name	Contact Name	
Address	Phone Number	Email

Trade Registration Information (Use a separate form for each trade agreement)

Type	Trade Agreement Number	Practices Used to Generate Credits	Anticipated Load Reduction	Trade Ratio	Method of Quantification
○ Urban NPS ◉ Agricultural NPS ○ Other	PP-002	Conversion of fields to perennial vegetation and stream bank improvement.	50	1.2:1	SnapPlus

County	Closest Receiving Water Name	Land Parcel ID(s)	Parameter(s) being traded
Price	Little Elk River	See attached map	Phosphorus

The preparer certifies all of the following:

- I have completed this document to the best of my knowledge and have not excluded pertinent information.
- I certify that the information in this document is true to the best of my knowledge.

Signature of Preparer	Date Signed
	2/27/20

Authorized Representative Signature

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision. Based on my inquiry of those persons directly responsible for gathering and entering the information, the information is, to the best of my knowledge and belief, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Signature of Authorized Representative	Date Signed
	3-2-2020

Leave Blank – For Department Use Only

Date Received		Trade Docket Number
Entered in Tracking System ☐ Yes	Date Entered	Name of Department Reviewer


034107709000
034107708000
034108310000
034108309000
034108306000
034108305000
034108308000
034108307000
034108402000
034108401000
034108405000
034108403000
034108408000
034108501000
WORCESTER
NURPHY LAKE RD
LITTLE LAKE RD
26
NW1/4 SW1/4
S26
T37N R1E



Parcel Report

View Full External Report | Download / Print

Real Estate Price County Property Listing

Today's Date: 1/7/2020

Property Status: Current
Created On: 2/22/2006 9:02:13 AM

Description — Updated: 7/18/2018

Tax ID:	20796
PIN:	50-034-4-37-01-26-4 02-000-10000
Legacy PIN:	034108408000
Map ID:	628
Municipality:	(034) TOWN OF WORCESTER
STR:	S26 T37N R01E
Description:	26-37-1E NW-SE
Recorded Acres:	40.000
Calculated Acres:	0.000
Lottery Claims:	0
First Dollar:	Yes
Waterbody:	Foytik Creek - 034 Little Elk River - 059
Zoning:	(A1) Agricultural
ESN:	506

Tax Districts — Updated: 2/22/2006

1	STATE OF WISCONSIN
50	PRICE COUNTY
034	TOWN OF WORCESTER
504347	SCHL-PHILLIPS
001500	TECHNICAL COLLEGE

Recorded Documents — Updated: 4/30/2009

WARRANTY DEED	
Date Recorded: 7/18/2018	382009
WARRANTY DEED	
Date Recorded: 5/1/2018	381247
LAND CONTRACT	
Date Recorded: 4/18/2018	374250
QUIT CLAIM DEED	
Date Recorded: 9/2/2014	369196
ADDRESS CHANGE	
Date Recorded: 7/2/2019	
PERSONAL REPRESENTATIVE'S DEED	
Date Recorded: 12/1/2000	303142 443R-544
PERSONAL REPRESENTATIVE'S DEED	
Date Recorded: 12/1/2000	303141 443R-543

Ownership — Updated: 7/18/2018

ANDRES E LUND III — REESEVILLE WI

Billing Address:	**Mailing Address:**
ANDRES E LUND III	**ANDRES E LUND III**
N1790 CAHOON RD	N1790 CAHOON RD
REESEVILLE WI 53579	REESEVILLE WI 53579

Site Address — * indicates Private Road

N7880 LITTLE ELK RD — PHILLIPS 54555

Property Assessment — Updated: 8/28/2018

2019 Assessment Detail

Code	Acres	Land	Tmp.
G1-RESIDENTIAL	1.000	5,000	92,300
G4-AGRICULTURAL	21.800	3,700	0
G5-UNDEVELOPED	13.200	3,300	0
G8-AGRICULTURAL FOREST	4.000	2,700	0

2-Year Comparison	2018	2019	Change
Land:	14,600	14,700	0.7%
Improved:	92,300	92,300	0.0%
Total:	106,900	107,000	0.1%

Property History

N/A

State of Wisconsin
Department of Natural Resources
101 South Webster Street
Madison WI 53707-7921
dnr.wi.gov

Water Quality Trading Management Practice Registration

Form 3400-207 (R 1/14)

Notice: Pursuant to s. 283.84, Wis. Stats., this form must be completed by any WPDES permittee that is using water quality trading as a method of complying with a permit limitation. Failure to complete this form would not result in penalties. Personal information collected will be used for administrative purposes and may be provided to requesters to the extent required by Wisconsin's Open Records Law (ss. 19.31 - 19.39, Wis. Stats.).

Applicant Information

Permittee Name	Permit Number	Facility Site Number
Phillips Plating Corporation	WI- 0041149	

Facility Address	City	State	ZIP Code
P.O. Box 72	Phillips	WI	54555

Project Contact Name (if applicable)	Address	City	State	ZIP Code
Darin Baratka	P.O. Box 72	Phillips	WI	54555

Project Name
WWTP P Compliance: Albert Norek

Broker/Exchange Information (if applicable)

Was a broker/exchange be used to facilitate trade? ○ Yes ◉ No

Broker/Exchange Organization Name	Contact Name

Address	Phone Number	Email

Trade Registration Information (Use a separate form for each trade agreement)

Type	Trade Agreement Number	Practices Used to Generate Credits	Anticipated Load Reduction	Trade Ratio	Method of Quantification
○ Urban NPS ◉ Agricultural NPS ○ Other	PP-003	Conversion of fields to perennial vegetation.	32	1.2:1	SnapPlus

County	Closest Receiving Water Name	Land Parcel ID(s)	Parameter(s) being traded
Price	Little Elk River	See attached map	Phosphorus

The preparer certifies all of the following:

- I have completed this document to the best of my knowledge and have not excluded pertinent information.
- I certify that the information in this document is true to the best of my knowledge.

Signature of Preparer	Date Signed
[signature]	2/15/2020

Authorized Representative Signature

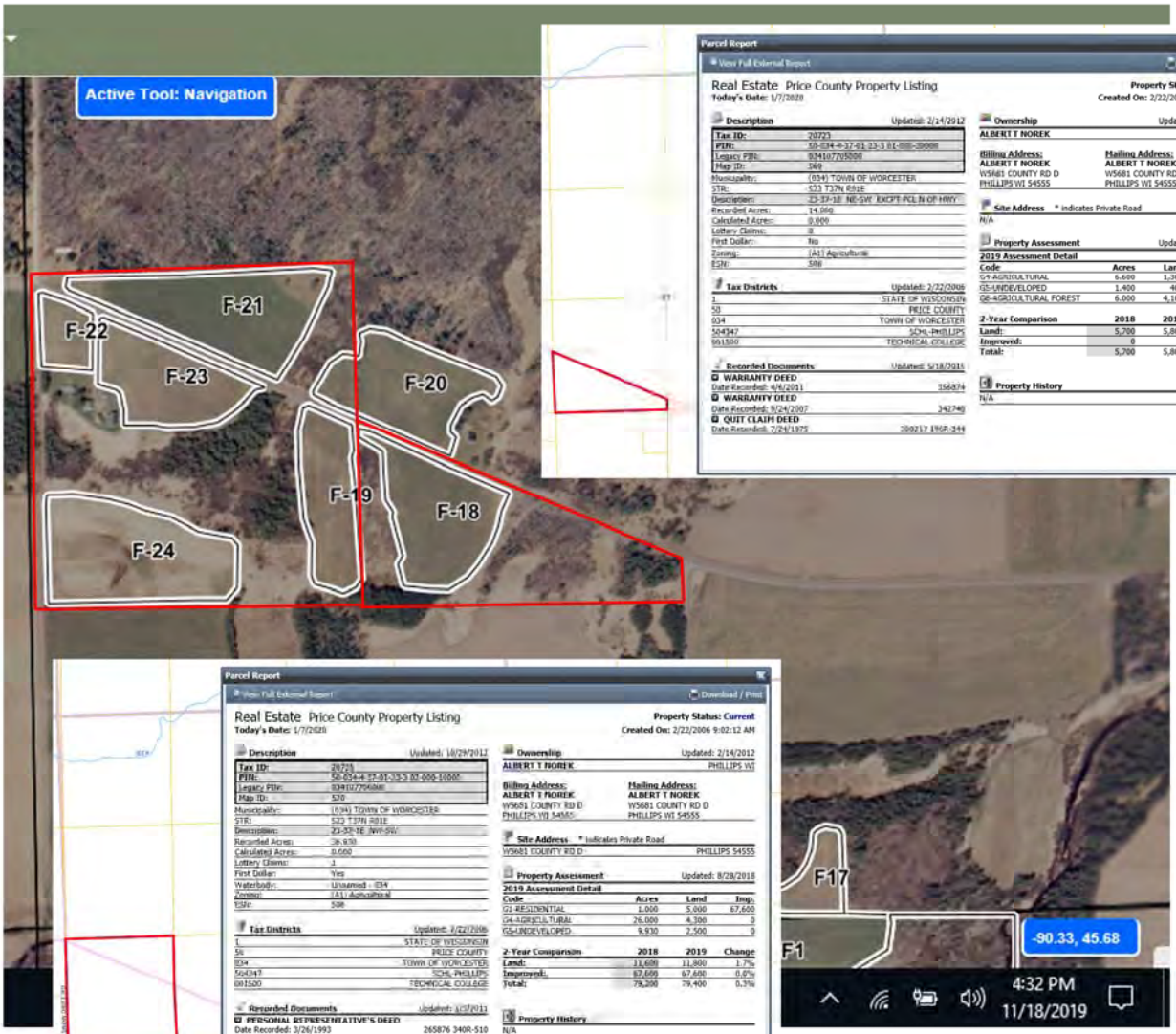
I certify under penalty of law that this document and all attachments were prepared under my direction or supervision. Based on my inquiry of those persons directly responsible for gathering and entering the information, the information is, to the best of my knowledge and belief, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Signature of Authorized Representative	Date Signed
[signature]	2-15-2020

Leave Blank – For Department Use Only

Date Received		Trade Docket Number
Entered in Tracking System ☐ Yes	Date Entered	Name of Department Reviewer


NE1/4 SW1/4 S23
T37N R1E
034107705010
034107706000
NW1/4 SW1/4 S23
T37N R1E
SNOW DRIFT RD
WORCESTER
034107705000
23
034107707000


Active Tool: Navigation
F-21
F-22
F-23
F-20
F-19
F-18
F-24
Parcel Report
Real Estate Price County Property Listing
Today's Date: 1/7/2020
Property Status: Current
Created On: 2/22/2006 9:02:12 AM
Description
Updated: 2/14/2012
Tax ID: 20723
PIN: 50-034-4-37-01-33-3 01-000-10000
Legacy PIN: 03410770S000
Map ID: 569
Municipality: (034) TOWN OF WORCESTER
STR: 033 T37N R01E
Description: 33-37-1E NE-SW EXCPT-PCL N OF HWY
Recorded Acres: 14.060
Calculated Acres: 0.000
Lottery Claims: 0
First Dollar: No
Zoning: (A1) Agricultural
ESN: 500
Ownership
Updated: 2/14/2012
ALBERT T NOREK
PHILLIPS WI
Billing Address:
ALBERT T NOREK
W5681 COUNTY RD D
PHILLIPS WI 54555
Mailing Address:
ALBERT T NOREK
W5681 COUNTY RD D
PHILLIPS WI 54555
Site Address * indicates Private Road
N/A
Tax Districts
Updated: 2/22/2006
1 STATE OF WISCONSIN
50 PRICE COUNTY
034 TOWN OF WORCESTER
504347 SCHL-PHILLIPS
001500 TECHNICAL COLLEGE
Property Assessment
Updated: 9/23/2013
2019 Assessment Detail
Code | Acres | Land | Imp.
G4-AGRICULTURAL 6.600 1,300 0
G5-UNDEVELOPED 1.400 400 0
G6-AGRICULTURAL FOREST 6.000 4,100 0
2-Year Comparison | 2018 | 2019 | Change
Land: 5,700 5,800 1.8%
Improved: 0 0 0.0%
Total: 5,700 5,800 1.8%
Recorded Documents
Updated: 5/18/2015
WARRANTY DEED
Date Recorded: 4/6/2011 556874
WARRANTY DEED
Date Recorded: 9/24/2007 342740
QUIT CLAIM DEED
Date Recorded: 7/24/1975 200717 196R-344
Property History
N/A
Parcel Report
Real Estate Price County Property Listing
Today's Date: 1/7/2020
Property Status: Current
Created On: 2/22/2006 9:02:12 AM
Description
Updated: 10/29/2012
Tax ID: 20723
PIN: 50-034-4-37-01-33-3 01-000-10000
Legacy PIN: 03410770S000
Map ID: 570
Municipality: (034) TOWN OF WORCESTER
STR: 033 T37N R01E
Description: 33-37-1E NW-SW
Recorded Acres: 38.870
Calculated Acres: 0.000
Lottery Claims: 1
First Dollar: Yes
Waterbody: Unnamed - 034
Zoning: (A1) Agricultural
ESN: 500
Ownership
Updated: 2/14/2012
ALBERT T NOREK
PHILLIPS WI
Billing Address:
ALBERT T NOREK
W5681 COUNTY RD D
PHILLIPS WI 54555
Mailing Address:
ALBERT T NOREK
W5681 COUNTY RD D
PHILLIPS WI 54555
Site Address * Indicates Private Road
W5681 COUNTY RD D PHILLIPS 54555
Property Assessment
Updated: 8/28/2018
2019 Assessment Detail
Code | Acres | Land | Imp.
G1-RESIDENTIAL 1.000 5,000 67,600
G4-AGRICULTURAL 26.000 4,300 0
G5-UNDEVELOPED 9.930 2,500 0
2-Year Comparison | 2018 | 2019 | Change
Land: 11,600 11,800 1.7%
Improved: 67,600 67,600 0.0%
Total: 79,200 79,400 0.3%
Tax Districts
Updated: 2/22/2006
1 STATE OF WISCONSIN
50 PRICE COUNTY
034 TOWN OF WORCESTER
504347 SCHL-PHILLIPS
001500 TECHNICAL COLLEGE
Recorded Documents
Updated: 1/27/2011
PERSONAL REPRESENTATIVE'S DEED
Date Recorded: 3/26/1993 265876 340R-510
Property History
N/A
F17
F1
-90.33, 45.68
4:32 PM
11/18/2019

State of Wisconsin
Department of Natural Resources
101 South Webster Street
Madison WI 53707-7921
dnr.wi.gov

Water Quality Trading Management Practice Registration

Form 3400-207 (R 1/14)

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Applicant Information

Permittee Name	Permit Number	Facility Site Number
Phillips Plating Corporation	WI- 0041149	

Facility Address	City	State	ZIP Code
P.O. Box 72	Phillips	WI	54555

Project Contact Name (if applicable)	Address	City	State	ZIP Code
Darin Baratka	P.O. Box 72	Phillips	WI	54555

Project Name
WWTP P Compliance: Richard Norek

Broker/Exchange Information (if applicable)

Was a broker/exchange be used to facilitate trade? ○ Yes ◉ No

Broker/Exchange Organization Name	Contact Name	
Address	Phone Number	Email

Trade Registration Information (Use a separate form for each trade agreement)

Type	Trade Agreement Number	Practices Used to Generate Credits	Anticipated Load Reduction	Trade Ratio	Method of Quantification
○ Urban NPS ◉ Agricultural NPS ○ Other	PP-004	Conversion of fields to perennial vegetation.	4.0	1.2:1	SnapPlus

County	Closest Receiving Water Name	Land Parcel ID(s)	Parameter(s) being traded
Price	Little Elk River	See attached map	Phosphorus

The preparer certifies all of the following:

- I have completed this document to the best of my knowledge and have not excluded pertinent information.
- I certify that the information in this document is true to the best of my knowledge.

Signature of Preparer	Date Signed
[signature]	2/15/2020

Authorized Representative Signature

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision. Based on my inquiry of those persons directly responsible for gathering and entering the information, the information is, to the best of my knowledge and belief, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Signature of Authorized Representative	Date Signed
[signature]	2-15-2020

Leave Blank – For Department Use Only

Date Received		Trade Docket Number
Entered in Tracking System ☐ Yes	Date Entered	Name of Department Reviewer


NE1/4 SW1/4 S23
T37N R1E
034107705010
034107706000
23
SNOW DRIFT RD
WORCESTER
034107705000
034107707000



Parcel Report

View Full External Report | Download / Print

Real Estate Price County Property Listing

Today's Date: 1/7/2020

Property Status: Current
Created On: 2/22/2006 9:02:12 AM

Description — Updated: 2/14/2012

Tax ID:	20724
PIN:	50-034-4-37-01-23-3 01-000-10000
Legacy PIN:	034107705010
Map ID:	569-A
Municipality:	(034) TOWN OF WORCESTER
STR:	S23 T37N R01E
Description:	23-37-1E PRT OF NE-SW PCL DESC IN 360072
Recorded Acres:	26.000
Calculated Acres:	0.000
Lottery Claims:	1
First Dollar:	Yes
Zoning:	(A1) Agricultural
ESN:	506

Tax Districts — Updated: 2/22/2006

1	STATE OF WISCONSIN
50	PRICE COUNTY
034	TOWN OF WORCESTER
504347	SCHL-PHILLIPS
001500	TECHNICAL COLLEGE

Recorded Documents — Updated: 1/5/2011

WARRANTY DEED	
Date Recorded: 2/14/2012	360072
WARRANTY DEED	
Date Recorded: 7/2/2008	346015
QUIT CLAIM DEED	
Date Recorded: 12/20/2007	343782
WARRANTY DEED	
Date Recorded: 6/10/1996	280939 380R-180
LAND CONTRACT	

Ownership — Updated: 2/14/2012

RICHARD J NOREK — PHILLIPS WI

Billing Address:	**Mailing Address:**
RICHARD J NOREK	**RICHARD J NOREK**
W5570 COUNTY RD D	W5570 COUNTY RD D
PHILLIPS WI 54555	PHILLIPS WI 54555

Site Address — * indicates Private Road

W5570 COUNTY RD D — PHILLIPS 54555

Property Assessment — Updated: 8/28/2018

2019 Assessment Detail

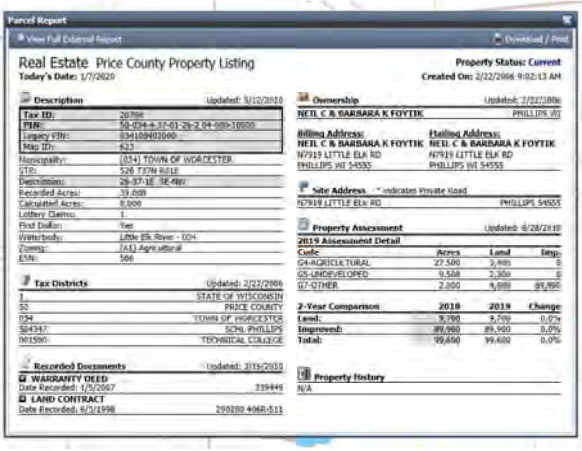
Code	Acres	Land	Imp.
G1-RESIDENTIAL	1.000	5,000	45,000
G4-AGRICULTURAL	4.000	700	0
G8-AGRICULTURAL FOREST	21.000	14,200	0

2-Year Comparison	2018	2019	Change
Land:	19,900	19,900	0.0%
Improved:	45,000	45,000	0.0%
Total:	64,900	64,900	0.0%

Property History

N/A

Attachment C1: Properties & Snap Maps



Parcel Report

Real Estate Price County Property Listing

Today's Date: 1/7/2020

Property Status: Current

Created On: 2/22/2006 9:02:13 AM

Description Updated: 5/12/2010

Tax ID:	20769
PIN:	50-034-4-37-01-26-2 04-000-10000
Legacy PIN:	034108402000
Map ID:	623
Municipality:	(034) TOWN OF WORCESTER
STR:	526 T37N R01E
Description:	26-37-1E SE4W
Recorded Acres:	39.000
Calculated Acres:	0.000
Lottery Claims:	1
First Dollar:	Yes
Waterbody:	Little Elk River - 034
Zoning:	(A1) Agricultural
ESN:	566

Ownership Updated: 2/22/2006

NEIL C & BARBARA K FOYTIK — PHILLIPS WI

Billing Address:	Mailing Address:
NEIL C & BARBARA K FOYTIK	NEIL C & BARBARA K FOYTIK
N7919 LITTLE ELK RD	N7919 LITTLE ELK RD
PHILLIPS WI 54555	PHILLIPS WI 54555

Site Address * Indicates Private Road

N7919 LITTLE ELK RD — PHILLIPS 54555

Property Assessment Updated: 6/28/2010

2019 Assessment Detail

Code	Acres	Land	Imp.
G4-AGRICULTURAL	27.500	3,465	0
G5-UNDEVELOPED	9.500	2,300	0
G7-OTHER	2.000	4,000	89,900

2-Year Comparison	2018	2019	Change
Land:	9,700	9,709	0.0%
Improved:	89,900	89,900	0.0%
Total:	99,600	99,600	0.0%

Tax Districts Updated: 2/22/2006

1	STATE OF WISCONSIN
50	PRICE COUNTY
034	TOWN OF WORCESTER
504347	SCHL-PHILLIPS
001500	TECHNICAL COLLEGE

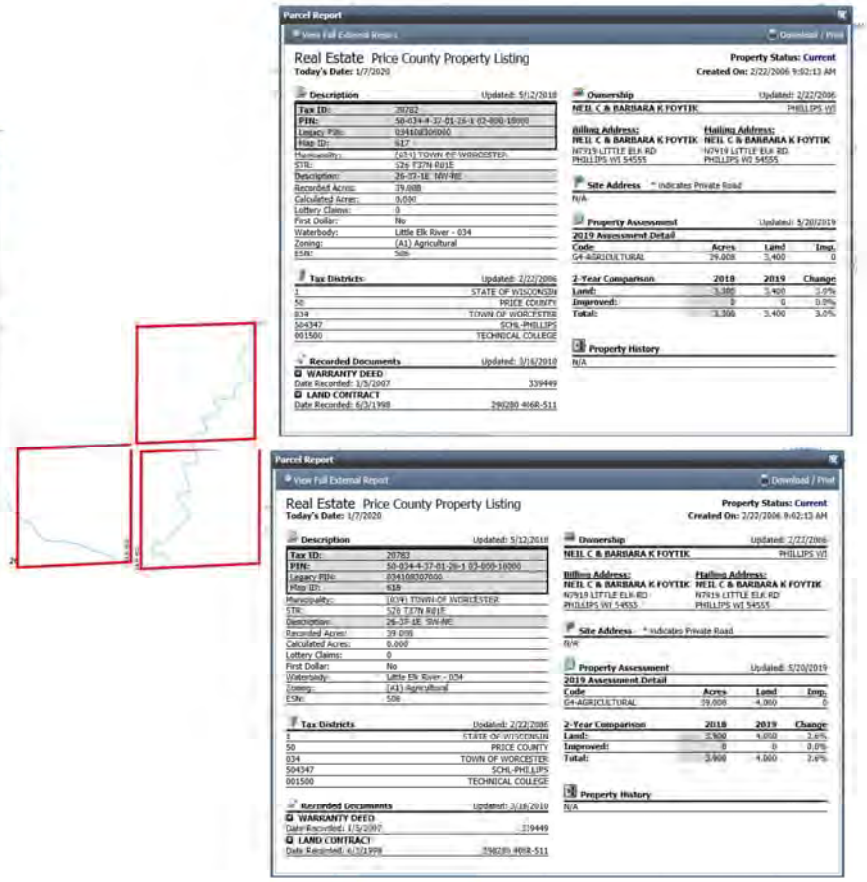
Property History

N/A

Recorded Documents Updated: 3/15/2010

WARRANTY DEED
Date Recorded: 1/5/2007 — 339449

LAND CONTRACT
Date Recorded: 6/3/1998 — 290280 406R-511



Parcel Report

Real Estate Price County Property Listing

Today's Date: 1/7/2020

Property Status: Current

Created On: 2/22/2006 9:02:13 AM

Description Updated: 5/12/2010

Tax ID:	20782
PIN:	50-034-4-37-01-26-1 02-000-10000
Legacy PIN:	034108307000
Map ID:	617
Municipality:	(034) TOWN OF WORCESTER
STR:	526 T37N R01E
Description:	26-37-1E NW4E
Recorded Acres:	39.000
Calculated Acres:	0.000
Lottery Claims:	0
First Dollar:	No
Waterbody:	Little Elk River - 034
Zoning:	(A1) Agricultural
ESN:	566

Ownership Updated: 2/22/2006

NEIL C & BARBARA K FOYTIK — PHILLIPS WI

Billing Address:	Mailing Address:
NEIL C & BARBARA K FOYTIK	NEIL C & BARBARA K FOYTIK
N7919 LITTLE ELK RD	N7919 LITTLE ELK RD
PHILLIPS WI 54555	PHILLIPS WI 54555

Site Address * Indicates Private Road

N/A

Property Assessment Updated: 5/20/2019

2019 Assessment Detail

Code	Acres	Land	Imp.
G4-AGRICULTURAL	29.000	3,400	0

2-Year Comparison	2018	2019	Change
Land:	3,300	3,400	3.0%
Improved:	0	0	0.0%
Total:	3,300	3,400	3.0%

Tax Districts Updated: 2/22/2006

1	STATE OF WISCONSIN
50	PRICE COUNTY
034	TOWN OF WORCESTER
504347	SCHL-PHILLIPS
001500	TECHNICAL COLLEGE

Property History

N/A

Recorded Documents Updated: 3/16/2010

WARRANTY DEED
Date Recorded: 1/5/2007 — 339449

LAND CONTRACT
Date Recorded: 6/3/1998 — 290280 406R-511

Parcel Report

Real Estate Price County Property Listing

Today's Date: 1/7/2020

Property Status: Current

Created On: 2/22/2006 9:02:13 AM

Description Updated: 5/12/2010

Tax ID:	20783
PIN:	50-034-4-37-01-26-1 03-000-10000
Legacy PIN:	034108307000
Map ID:	618
Municipality:	(034) TOWN OF WORCESTER
STR:	526 T37N R01E
Description:	26-37-1E SW4E
Recorded Acres:	39.000
Calculated Acres:	0.000
Lottery Claims:	0
First Dollar:	No
Waterbody:	Little Elk River - 034
Zoning:	(A1) Agricultural
ESN:	566

Ownership Updated: 2/22/2006

NEIL C & BARBARA K FOYTIK — PHILLIPS WI

Billing Address:	Mailing Address:
NEIL C & BARBARA K FOYTIK	NEIL C & BARBARA K FOYTIK
N7919 LITTLE ELK RD	N7919 LITTLE ELK RD
PHILLIPS WI 54555	PHILLIPS WI 54555

Site Address * Indicates Private Road

N/A

Property Assessment Updated: 5/20/2019

2019 Assessment Detail

Code	Acres	Land	Imp.
G4-AGRICULTURAL	29.000	4,000	0

2-Year Comparison	2018	2019	Change
Land:	3,900	4,000	2.6%
Improved:	0	0	0.0%
Total:	3,900	4,000	2.6%

Tax Districts Updated: 2/22/2006

1	STATE OF WISCONSIN
50	PRICE COUNTY
034	TOWN OF WORCESTER
504347	SCHL-PHILLIPS
001500	TECHNICAL COLLEGE

Property History

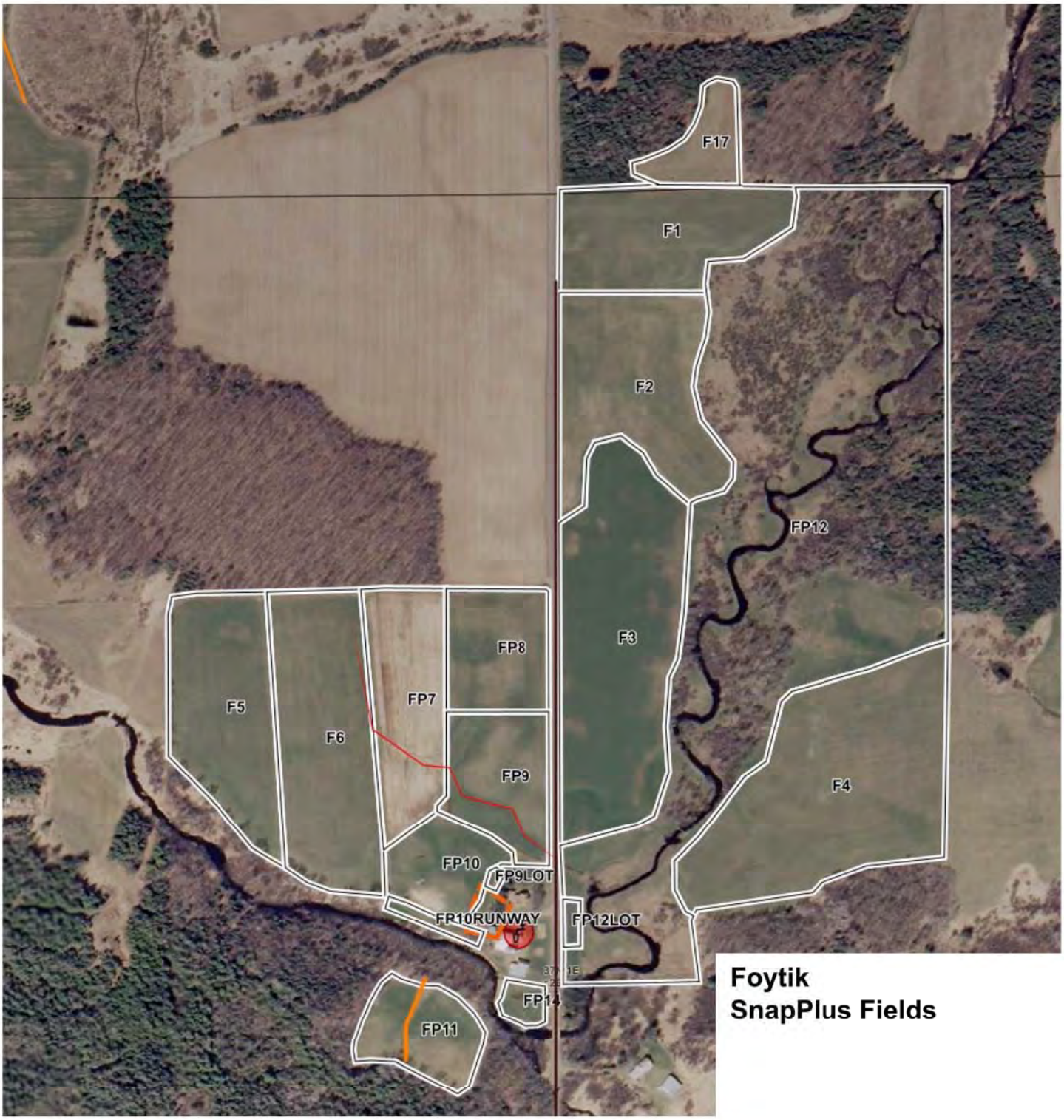
N/A

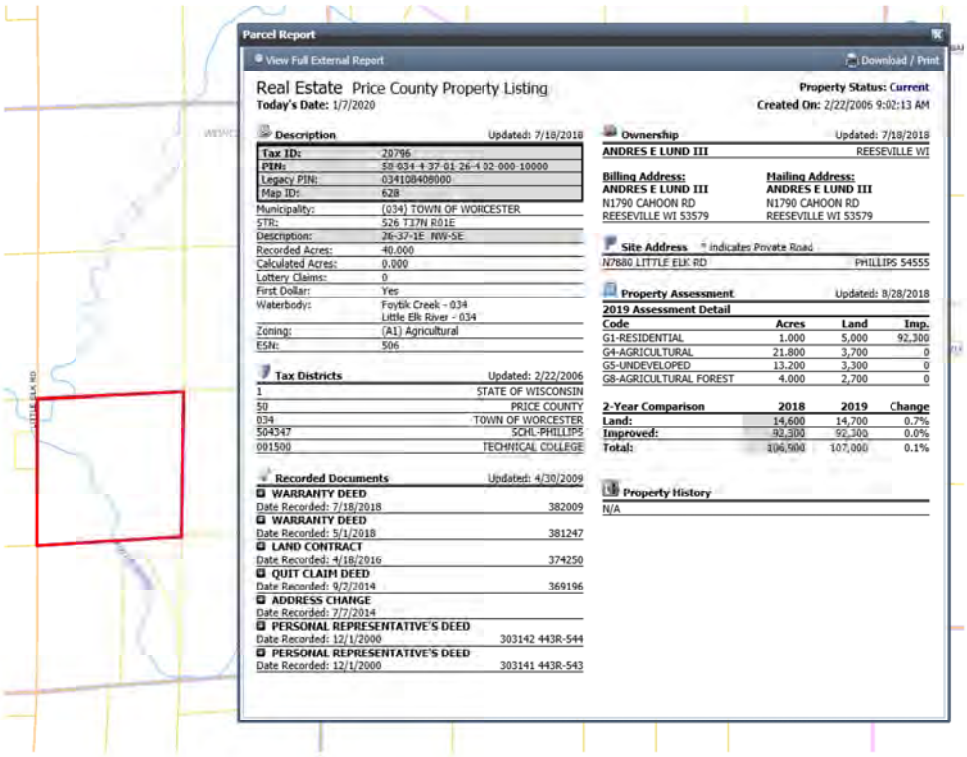
Recorded Documents Updated: 3/16/2010

WARRANTY DEED
Date Recorded: 1/5/2007 — 339449

LAND CONTRACT
Date Recorded: 6/3/1998 — 290280 406R-511


S26 T37N R1E
034108309000
034108306000
034108305000
034108402000
034108307000
034108308000
26
LITTLE ELK RD


F17
F1
F2
FP12
F3
FP8
F5
FP7
F6
FP9
F4
FP10
FP9LOT
FP10RUNWAY
FP12LOT
FP14
FP11
Foytik
SnapPlus Fields



Parcel Report

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Real Estate Price County Property Listing

Today's Date: 1/7/2020

Property Status: Current

Created On: 2/22/2006 9:02:13 AM

Description Updated: 7/18/2018

Tax ID:	20796
PIN:	58-034-4-37-01-26-4-32-000-10000
Legacy PIN:	034108408000
Map ID:	628
Municipality:	(034) TOWN OF WORCESTER
STR:	526 T37N R01E
Description:	26-37-1E NW-SE
Recorded Acres:	40.000
Calculated Acres:	0.000
Lottery Claims:	0
First Dollar:	Yes
Waterbody:	Foytik Creek - 034 Little Elk River - 034
Zoning:	(A1) Agricultural
ESN:	506

Tax Districts Updated: 2/22/2006

1	STATE OF WISCONSIN
50	PRICE COUNTY
034	TOWN OF WORCESTER
504347	SCHL-PHILLIPS
001500	TECHNICAL COLLEGE

Recorded Documents Updated: 4/30/2009

WARRANTY DEED	
Date Recorded: 7/18/2018	382009
WARRANTY DEED	
Date Recorded: 5/1/2018	381247
LAND CONTRACT	
Date Recorded: 4/18/2016	374250
QUIT CLAIM DEED	
Date Recorded: 9/3/2014	369196
ADDRESS CHANGE	
Date Recorded: 7/7/2014	
PERSONAL REPRESENTATIVE'S DEED	
Date Recorded: 12/1/2000	303142 443R-544
PERSONAL REPRESENTATIVE'S DEED	
Date Recorded: 12/1/2000	303141 443R-543

Ownership Updated: 7/18/2018

ANDRES E LUND III REESEVILLE WI

Billing Address:
ANDRES E LUND III
N1790 CAHOON RD
REESEVILLE WI 53579

Mailing Address:
ANDRES E LUND III
N1790 CAHOON RD
REESEVILLE WI 53579

Site Address * indicates Private Road

N7680 LITTLE ELK RD PHILLIPS 54555

Property Assessment Updated: 8/28/2018

2019 Assessment Detail

Code	Acres	Land	Imp.
G1-RESIDENTIAL	1.000	5,000	92,300
G4-AGRICULTURAL	21.800	3,700	0
G5-UNDEVELOPED	13.200	3,300	0
G8-AGRICULTURAL FOREST	4.000	2,700	0

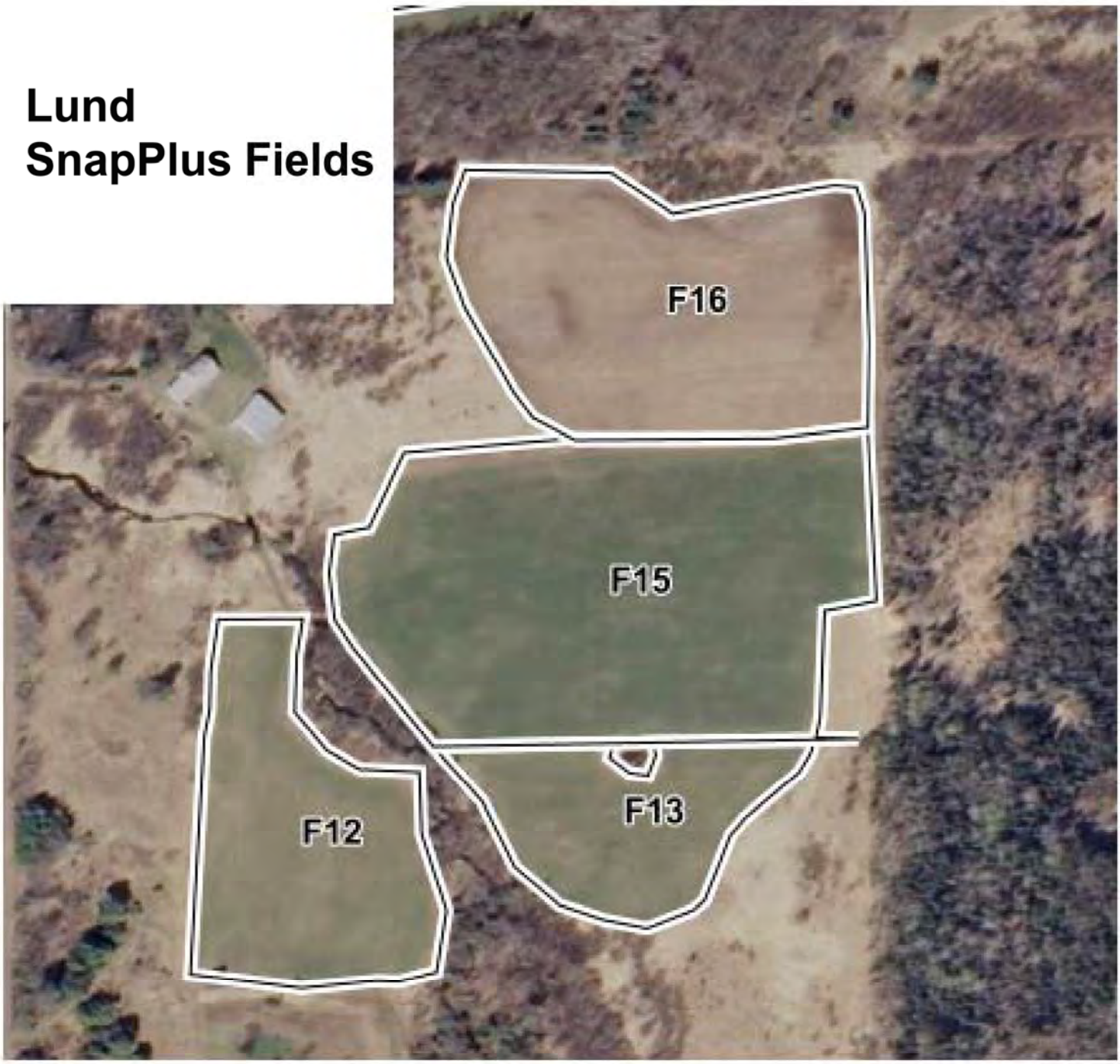
2-Year Comparison	2018	2019	Change
Land:	14,600	14,700	0.7%
Improved:	92,300	92,300	0.0%
Total:	106,900	107,000	0.1%

Property History

N/A


034107709000
034107708000
034108310000
034108309000
034108306000
034108305000
034108308000
034108307000
034108402000
034108401000
034108408000
034108405000
034108501000
WORCESTER
MURPHY LAKE RD
NW1/4 SW1/4
S26
T37N R1E

Lund
SnapPlus Fields





Parcel Report

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Real Estate Price County Property Listing

Today's Date: 1/7/2020

Property Status: Current
Created On: 2/22/2006 9:02:12 AM

Description Updated: 2/14/2012

Tax ID:	20723
PIN:	50-034-4-37-01-23-3 01-000-20000
Legacy PIN:	034107705000
Map ID:	569
Municipality:	(034) TOWN OF WORCESTER
STR:	S23 T37N R01E
Description:	23-37-1E NE-SW EXCPT PCL N OF HWY
Recorded Acres:	14.000
Calculated Acres:	0.000
Lottery Claims:	0
First Dollar:	No
Zoning:	(A1) Agricultural
ESN:	506

Ownership Updated: 2/14/2012

ALBERT T NOREK PHILLIPS WI

Billing Address:	Mailing Address:
ALBERT T NOREK	ALBERT T NOREK
W5681 COUNTY RD D	W5681 COUNTY RD D
PHILLIPS WI 54555	PHILLIPS WI 54555

Site Address * indicates Private Road

N/A

Tax Districts Updated: 2/22/2006

1	STATE OF WISCONSIN
50	PRICE COUNTY
034	TOWN OF WORCESTER
504347	SCHL-PHILLIPS
001500	TECHNICAL COLLEGE

Property Assessment Updated: 9/23/2013

2019 Assessment Detail

Code	Acres	Land	Imp.
G4-AGRICULTURAL	6.600	1,300	0
G5-UNDEVELOPED	1.400	400	0
G8-AGRICULTURAL FOREST	6.000	4,100	0

2-Year Comparison	2018	2019	Change
Land:	5,700	5,800	1.8%
Improved:	0	0	0.0%
Total:	5,700	5,800	1.8%

Recorded Documents Updated: 5/18/2015

WARRANTY DEED	
Date Recorded: 4/6/2011	356874
WARRANTY DEED	
Date Recorded: 9/24/2007	342740
QUIT CLAIM DEED	
Date Recorded: 7/24/1975	200217 196R-344

Property History

N/A

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Real Estate Price County Property Listing

Today's Date: 1/7/2020

Property Status: Current
Created On: 2/22/2006 9:02:12 AM

Description Updated: 10/29/2012

Tax ID:	20725
PIN:	50-034-4-37-01-23-3 02-000-10000
Legacy PIN:	034107706000
Map ID:	570
Municipality:	(034) TOWN OF WORCESTER
STR:	S23 T37N R01E
Description:	23-37-1E NW-SW
Recorded Acres:	36.930
Calculated Acres:	0.000
Lottery Claims:	1
First Dollar:	Yes
Waterbody:	Unnamed - 034
Zoning:	(A1) Agricultural
ESN:	506

Ownership Updated: 2/14/2012

ALBERT T NOREK PHILLIPS WI

Billing Address:	Mailing Address:
ALBERT T NOREK	ALBERT T NOREK
W5681 COUNTY RD D	W5681 COUNTY RD D
PHILLIPS WI 54555	PHILLIPS WI 54555

Site Address * indicates Private Road

W5681 COUNTY RD D PHILLIPS 54555

Tax Districts Updated: 2/22/2006

1	STATE OF WISCONSIN
50	PRICE COUNTY
034	TOWN OF WORCESTER
504347	SCHL-PHILLIPS
001500	TECHNICAL COLLEGE

Property Assessment Updated: 8/28/2018

2019 Assessment Detail

Code	Acres	Land	Imp.
G1-RESIDENTIAL	1.000	5,000	67,600
G4-AGRICULTURAL	26.000	4,300	0
G5-UNDEVELOPED	9.930	2,500	0

2-Year Comparison	2018	2019	Change
Land:	11,600	11,800	1.7%
Improved:	67,600	67,600	0.0%
Total:	79,200	79,400	0.3%

Recorded Documents Updated: 1/5/2011

PERSONAL REPRESENTATIVE'S DEED	
Date Recorded: 3/26/1993	265876 340R-510

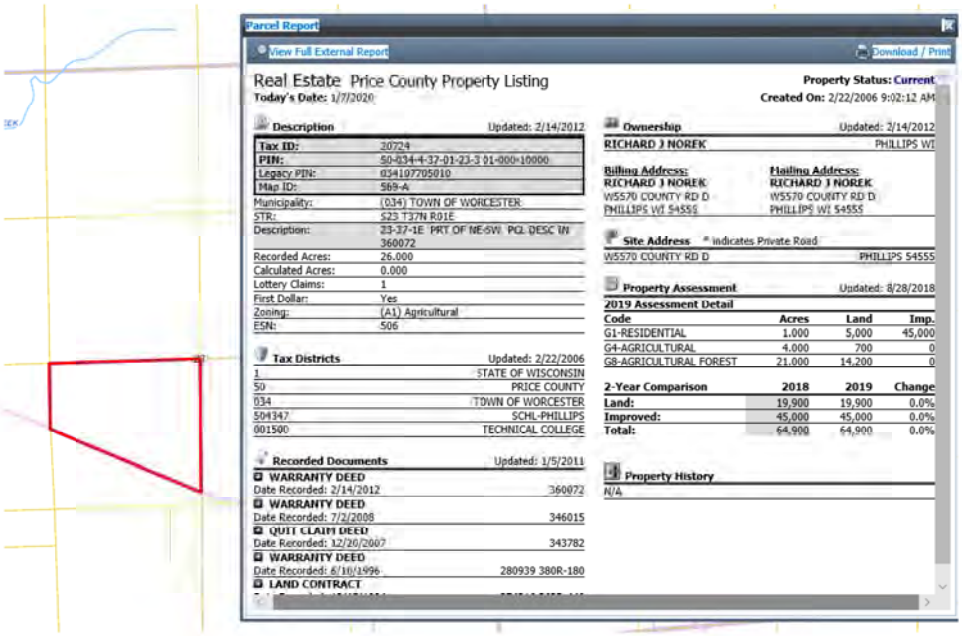
Property History

N/A


NE1/4 SW1/4 S23
T37N R1E
034107705010
034107706000
NW1/4 SW1/4 S23
T37N R1E
SNOW DRIFT RD
WORCESTER
034107705000
23
034107707000



Albert Norek
SnapPlus Fields



Parcel Report

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Real Estate Price County Property Listing

Today's Date: 1/7/2020

Property Status: Current

Created On: 2/22/2006 9:02:12 AM

Description Updated: 2/14/2012

Tax ID:	20724
PIN:	50-034-4-37-01-23-3 01-000-10000
Legacy PIN:	034107705010
Map ID:	569-A
Municipality:	(034) TOWN OF WORCESTER
STR:	S23 T37N R01E
Description:	23-37-1E PRT OF NE-SW PCL DESC IN 360072
Recorded Acres:	26.000
Calculated Acres:	0.000
Lottery Claims:	1
First Dollar:	Yes
Zoning:	(A1) Agricultural
ESN:	506

Tax Districts Updated: 2/22/2006

1	STATE OF WISCONSIN
50	PRICE COUNTY
034	TOWN OF WORCESTER
504347	SCHL-PHILLIPS
001500	TECHNICAL COLLEGE

Recorded Documents Updated: 1/5/2011

WARRANTY DEED	
Date Recorded: 2/14/2012	360972
WARRANTY DEED	
Date Recorded: 7/2/2008	346015
QUIT CLAIM DEED	
Date Recorded: 12/20/2007	343782
WARRANTY DEED	
Date Recorded: 6/10/1996	280939 380R-180
LAND CONTRACT	

Ownership Updated: 2/14/2012

RICHARD J NOREK PHILLIPS WI

Billing Address:	Mailing Address:
RICHARD J NOREK	RICHARD J NOREK
W5570 COUNTY RD D	W5570 COUNTY RD D
PHILLIPS WI 54555	PHILLIPS WI 54555

Site Address * indicates Private Road

W5570 COUNTY RD D PHILLIPS 54555

Property Assessment Updated: 8/28/2018

2019 Assessment Detail

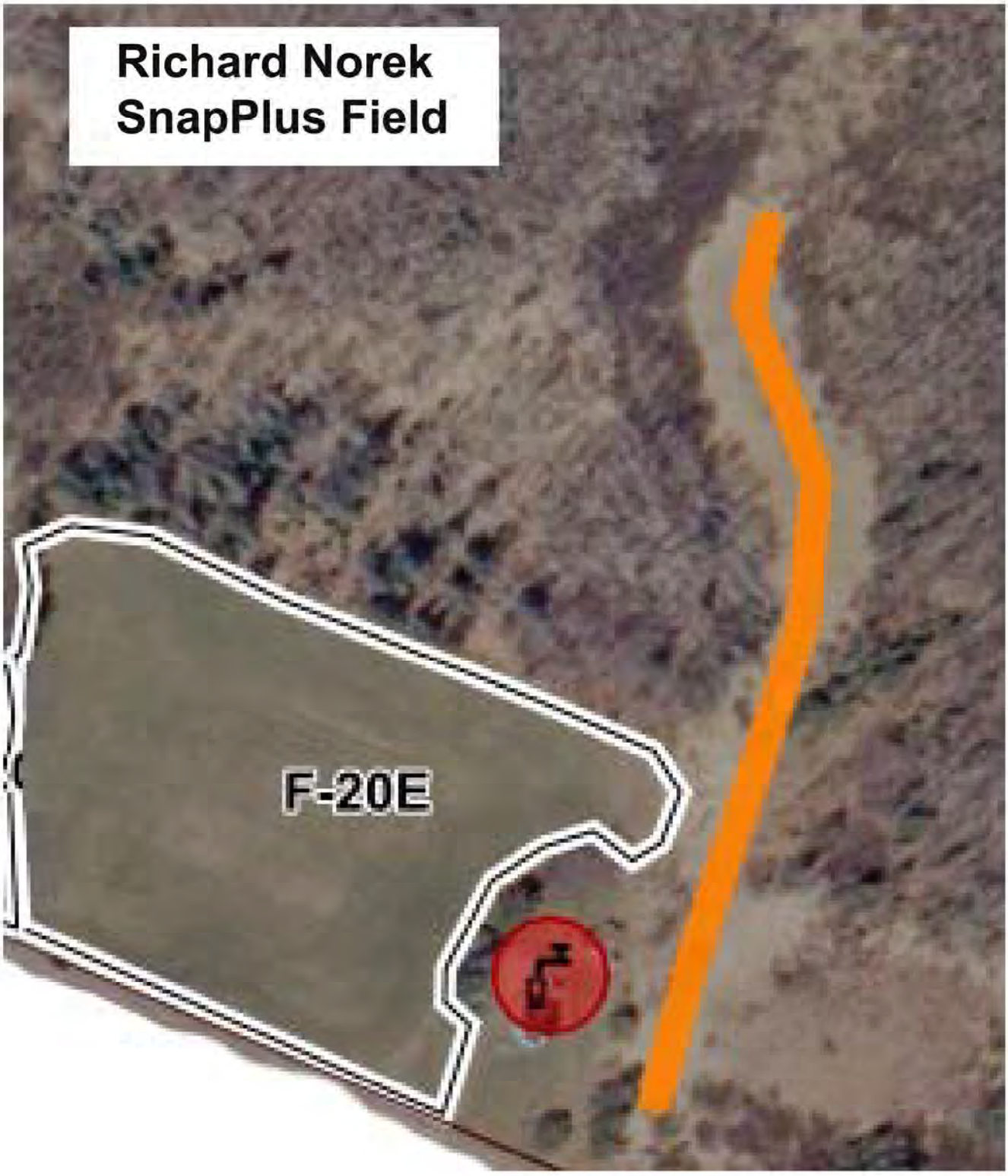
Code	Acres	Land	Imp.
G1-RESIDENTIAL	1.000	5,000	45,000
G4-AGRICULTURAL	4.000	700	0
G8-AGRICULTURAL FOREST	21.000	14,200	0

2-Year Comparison	2018	2019	Change
Land:	19,900	19,900	0.0%
Improved:	45,000	45,000	0.0%
Total:	64,900	64,900	0.0%

Property History

N/A


NE1/4 SW1/4 S23
T37N R1E
034107705010
034107706000
034107705000
034107707000
SNOW DRIFT RD
WORCESTER
23


Richard Norek
SnapPlus Field
F-20E

Attachment C2: SnapPlus Field Reports

NM1: Narrative and Crops Report

Starting Year	**2012**
Reported For	**Phillips Plating Foytik 8yr**
Printed	**2021-09-16**
Plan Completion/Update Date:	**2020-09-29**
SnapPlus Version 20.4 built on 2021-06-03	
C:\SnapPlus2\MySnapPlusData\Foytik\PP Foytik 9-3 8y.snapDb	

Prepared for:
Phillips Plating Foytik 8yr
attn:Neil Foytik

Farm has 12 fields totalling 97.2 cropped acres.
Farm Narrative: Neil Foytik had a dairy operation with a milking herd of 35 lactating (20 X 1,400 lbs + 15 X 1,200 lbs) and seven dry cows (4X 1,400 lbs + 3 X 1,200 lbs) and a heifer herd of eight 750 lb heifers, nine 1,000 lb heifers, six 150 lbs calves, six 250 lb calves and one 1,400 lbs bull. There was no manure storage, so manure from both herds indoors 24 hrs/day in winter was hauled daily (from Nov 15 to May 15) to fields planned for corn planting in the following spring. Overnight (½ day milking to milking) manure from the milking herd was hauled every other day or three times per week to the oldest, grassiest hayfields (May 15 to Nov 15). Six months per year outdoor manure from the dairy herd was pasture-delivered to each of the five rotation-grazed pastures. Six months per year outdoor manure from the heifer herd was pasture-delivered to FP-12 and FP-12 lot.

An eight-year, target crop rotation started with one or two years of corn followed by alfalfa (red clover on Norek) that converted to grass for end the rotation. The corn and alfalfa planting was preceded by spring mold board plowing and spring disking. The target 8-yr rotation was often varied due to crop yield and weather variability. The average crop year included 15 acres of corn silage among the Foytik, Norek, and Lund properties. Winter manure was hauled to the to-be-corn fields regardless of ownership while indoor summer manure production was spread only on the Foytik and Lund grassy fields.

Corn fields received commercial fertilizer in addition to the manure. Alfalfa seedings received commercial fertilizer. No other fields or pastures received commercial fertilizer.

All the cattle were sold in the summer of 2020, the corn fields were planted to a hay pasture mixture, pastures, alfalfa fields, and the grassy hay fields were not tilled or replanted. Barnyards and feedlot/exercise areas were allowed to vegetate naturally.

NW1/4 SE1/4 S26 37N 1E
The Anders Lund Farm was rented by Neil Foytik for dairy production. Now all fields have been seeded to permanent hayland with nutrient additions limited by this Nutrient Management Plan. No manure or whole field tillage is allowed. F-12 is not part of this trade. Fields F-13, F-15, and F-16 have been converted to permanent hayland vegetation. There is no F-14. FP-14 is not part of the trade>

NE SW S23 37N 1W
The Richard Norek Farm was rented by Neil Foytik for dairy production. Now all fields have been seeded to permanent hayland with nutrient additions limited by this Nutrient Management Plan.

NE SW S23 37N 1W & NW SW S23 37N 1W
Albert Norek Farm was rented by Neil Foytik for dairy production. Now all fields have been seeded to permanent hayland with nutrient additions limited by this Nutrient Management Plan.

Annual Farm Notes:

No Annual Farm Notes

Spreader Calibration Methods: Amount applied / Acres

Narrative and Crops:

Field Name	Field Acres	2012	2013	2014	2015	2016	2017	2018	2019
F1	5.4	Corn silage Spring MB Plow 10-15 ton/acre	Alfalfa/Grass Seeding Spring Spring MB Plow 1.0-2.5 ton/acre	Alfalfa/Grass None 2.6-3.5 ton/acre	Alfalfa/Grass None 2.6-3.5 ton/acre	Alfalfa/Grass None 2.6-3.5 ton/acre	Grass hay None 2-3 ton/acre	Grass hay None 2-3 ton/acre	Corn silage Spring MB Plow 15.1-20 ton/acre
F2	6.9	Alfalfa/Grass Seeding Spring Spring MB Plow 1.0-2.5 ton/acre	Alfalfa/Grass None 2.6-3.5 ton/acre	Alfalfa/Grass None 2.6-3.5 ton/acre	Alfalfa/Grass None 3.6-4.5 ton/acre	Grass hay None 3.1-4 ton/acre	Grass hay None 3.1-4 ton/acre	Grass hay None 3.1-4 ton/acre	Corn silage Spring MB Plow 15.1-20 ton/acre
F3	10.6	Grass hay None 2.0-3 ton/acre	Grass hay None 2-3 ton/acre	Corn silage Spring MB Plow 15.1-20 ton/acre	Alfalfa/Grass Seeding Spring Spring MB Plow 1.0-2.5 ton/acre	Alfalfa/Grass None 2.6-3.5 ton/acre	Grass hay None 3.1-4 ton/acre	Grass hay None 3.1-4 ton/acre	Grass hay None 3.1-4 ton/acre
F4	11.3	Alfalfa/Grass None 3.6-4.5 ton/acre	Grass hay None 2-3 ton/acre	Grass hay None 2-3 ton/acre	Grass hay None 2-3 ton/acre	Corn silage Spring MB Plow 15.1-20 ton/acre	Alfalfa/Grass Seeding Spring Spring MB Plow 1.0-2.5 ton/acre	Alfalfa/Grass None 4.6-5.5 ton/acre	Grass hay None 2-3 ton/acre
F5	6	Grass hay None 3.1-4 ton/acre	Grass hay None 3.1-4 ton/acre	Grass hay None 3.1-4 ton/acre	Corn silage Spring MB Plow 15.1-20 ton/acre	Alfalfa/Grass Seeding Spring Spring MB Plow 1.0-2.5 ton/acre	Alfalfa/Grass None 3.6-4.5 ton/acre	Alfalfa/Grass None 3.6-4.5 ton/acre	Grass hay None 3.1-4 ton/acre
F6	7.2	Alfalfa/Grass None 2.6-3.5 ton/acre	Corn silage Spring MB Plow 15.1-20 ton/acre	Alfalfa/Grass Seeding Spring Spring MB Plow 2.6-3.5 ton/acre	Alfalfa/Grass None 3.6-4.5 ton/acre	Alfalfa/Grass None 3.6-4.5 ton/acre	Alfalfa/Grass None 3.6-4.5 ton/acre	Grass hay None 3.1-4 ton/acre	Grass hay None 3.1-4 ton/acre
FP10	2.3	Pasture, rotational stocking, grass None 2.0-3.0 ton/acre	Pasture, rotational stocking, grass None 2-3 ton/acre	Pasture, rotational stocking, grass None 2-3 ton/acre	Pasture, rotational stocking, grass None 2-3 ton/acre	Pasture, rotational stocking, grass None 2-3 ton/acre	Pasture, rotational stocking, grass None 2-3 ton/acre	Pasture, rotational stocking, grass None 2-3 ton/acre	Pasture, rotational stocking, grass None 2-3 ton/acre
FP11	2.4	Pasture, rotational stocking, grass None 2.0-3.0 ton/acre	Pasture, rotational stocking, grass None 2-3 ton/acre	Pasture, rotational stocking, grass None 2-3 ton/acre	Pasture, rotational stocking, grass None 2-3 ton/acre	Pasture, rotational stocking, grass None 2-3 ton/acre	Pasture, rotational stocking, grass None 2-3 ton/acre	Pasture, rotational stocking, grass None 2-3 ton/acre	Pasture, rotational stocking, grass None 2-3 ton/acre

Field Name	Field Acres	2012	2013	2014	2015	2016	2017	2018	2019
FP12	34	Pasture, continuous stocking, low density None 1-2 ton/acre	Pasture, continuous stocking, low density None 1-2 ton/acre	Pasture, continuous stocking, low density None 1-2 ton/acre	Pasture, continuous stocking, low density None 1-2 ton/acre	Pasture, continuous stocking, low density None 1-2 ton/acre	Pasture, continuous stocking, low density None 1-2 ton/acre	Pasture, continuous stocking, low density None 1-2 ton/acre	Pasture, continuous stocking, low density None 1-2 ton/acre
FP7	4.5	Alfalfa/Grass None 2.6-3.5 ton/acre	Alfalfa/Grass None 2.6-3.5 ton/acre	Alfalfa/Grass None 2.6-3.5 ton/acre	Grass hay None 2-3 ton/acre	Grass hay None 2-3 ton/acre	Pasture, rotational stocking, grass None 2-3 ton/acre	Pasture, rotational stocking, grass None 2-3 ton/acre	Pasture, rotational stocking, grass None 2-3 ton/acre
FP8	3.2	Pasture, rotational stocking, grass None 2.0-3.0 ton/acre	Pasture, rotational stocking, grass None 2-3 ton/acre	Pasture, rotational stocking, grass None 2-3 ton/acre	Pasture, rotational stocking, grass None 2-3 ton/acre	Pasture, rotational stocking, grass None 2-3 ton/acre	Pasture, rotational stocking, grass None 2-3 ton/acre	Pasture, rotational stocking, grass None 2-3 ton/acre	Pasture, rotational stocking, grass None 2-3 ton/acre
FP9	3.4	Pasture, rotational stocking, grass None 2.0-3.0 ton/acre	Pasture, rotational stocking, grass None 2-3 ton/acre	Pasture, rotational stocking, grass None 2-3 ton/acre	Pasture, rotational stocking, grass None 2-3 ton/acre	Pasture, rotational stocking, grass None 2-3 ton/acre	Pasture, rotational stocking, grass None 2-3 ton/acre	Pasture, rotational stocking, grass None 2-3 ton/acre	Pasture, rotational stocking, grass None 2-3 ton/acre

Summary by Crop:
NOTE: Yields calculated using the midpoint of the SnapPlus yield goal range for each crop.

Crops Grouped By Category		2012	2013	2014	2015	2016	2017	2018	2019
Alfalfa/Grass	Acres	23	11	17	20	23	13	17	
	ton	93	34	52	61	70	53	86	
Alfalfa/Grass Seeding Spring	Acres	7	5	7	11	6	11		
	ton	12	9	21	19	11	19		
Corn silage	Acres	5	7	11	6	11			12
	ton	63	123	193	105	193			211
Grass hay	Acres	17	28	17	16	11	23	30	35
	ton	43	70	43	40	39	58	75	124
Pasture, continuous stocking, low density	Acres	34	34	34	34	34	34	34	34
	ton	51	51	51	51	51	51	51	51
Pasture, rotational stocking, grass	Acres	11	11	11	11	11	16	16	16
	ton	28	28	28	28	28	40	40	40

NM1: Narrative and Crops Report

Starting Year	**2024**
Reported For	**Phillips Plating Foytik 1yr**
Printed	**2022-02-08**
Plan Completion/Update Date:	**2020-09-29**
SnapPlus Version 20.4 built on 2021-06-03	
C:\SnapPlus2\MySnapPlusData\Foytik\PP Foytik 9-3 1y.snapDb	

Prepared for:
Phillips Plating Foytik 1yr
attn:Neil Foytik

Farm has 11 fields totalling 94.8 cropped acres.
Farm Narrative: Neil Foytik had a dairy operation with a milking herd of 35 lactating (20 X 1,400 lbs + 15 X 1,200 lbs) and seven dry cows (4X 1,400 lbs + 3 X 1,200 lbs) and a heifer herd of eight 750 lb heifers, nine 1,000 lb heifers, six 150 lbs calves, six 250 lb calves and one 1,400 lbs bull. There was no manure storage, so manure from both herds indoors 24 hrs/day in winter was hauled daily (from Nov 15 to May 15) to fields planned for corn planting in the following spring. Overnight (½ day milking to milking) manure from the milking herd was hauled every other day or three times per week to the oldest, grassiest hayfields (May 15 to Nov 15). Six months per year outdoor manure from the dairy herd was pasture-delivered to each of the five rotation-grazed pastures. Six months per year outdoor manure from the heifer herd was pasture-delivered to FP-12 and FP-12 lot.

An eight-year, target crop rotation started with one or two years of corn followed by alfalfa (red clover on Norek) that converted to grass for end the rotation. The corn and alfalfa planting was preceded by spring mold board plowing and spring disking. The target 8-yr rotation was often varied due to crop yield and weather variability. The average crop year included 15 acres of corn silage among the Foytik, Norek, and Lund properties. Winter manure was hauled to the to-be-corn fields regardless of ownership while indoor summer manure production was spread only on the Foytik and Lund grassy fields.

Corn fields received commercial fertilizer in addition to the manure. Alfalfa seedings received commercial fertilizer. No other fields or pastures received commercial fertilizer.

All the cattle were sold in the summer of 2020, the corn fields were planted to a hay pasture mixture, pastures, alfalfa fields, and the grassy hay fields were not tilled or replanted. Barnyards and feedlot/exercise areas were allowed to vegetate naturally.

NW1/4 SE1/4 S26 37N 1E
The Anders Lund Farm was rented by Neil Foytik for dairy production. Now all fields have been seeded to permanent hayland with nutrient additions limited by this Nutrient Management Plan. No manure or whole field tillage is allowed. F-12 is not part of this trade. Fields F-13, F-15, and F-16 have been converted to permanent hayland vegetation. There is no F-14.

NE SW S23 37N 1W
The Richard Norek Farm was rented by Neil Foytik for dairy production. Now all fields have been seeded to permanent hayland with nutrient additions limited by this Nutrient Management Plan. No manure or whole field tillage is allowed.

NE SW S23 37N 1W & NW SW S23 37N 1W
Albert Norek Farm was rented by Neil Foytik for dairy production. Now all fields have been seeded to permanent hayland with nutrient additions limited by this Nutrient Management Plan. No manure or whole field tillage is allowed.

Annual Farm Notes:

No Annual Farm Notes

Spreader Calibration Methods: Amount applied / Acres

Narrative and Crops:

Field Name	Field Acres	2024	2025	2026	2027	2028
F1	5.4	Grass hay None 2-3 ton/acre	Grass hay None 2-3 ton/acre	Grass hay None 2-3 ton/acre	Grass hay None 2-3 ton/acre	Grass hay None 2-3 ton/acre
F2	6.9	Grass hay None 2-3 ton/acre	Grass hay None 2-3 ton/acre	Grass hay None 2-3 ton/acre	Grass hay None 2-3 ton/acre	Grass hay None 2-3 ton/acre
F3	10.6	Grass hay None 2-3 ton/acre	Grass hay None 2-3 ton/acre	Grass hay None 2-3 ton/acre	Grass hay None 2-3 ton/acre	Grass hay None 2-3 ton/acre
F4	11.3	Grass hay None 2-3 ton/acre	Grass hay None 2-3 ton/acre	Grass hay None 2-3 ton/acre	Grass hay None 2-3 ton/acre	Grass hay None 2-3 ton/acre
F5	6	Grass hay None 2-3 ton/acre	Grass hay None 2-3 ton/acre	Grass hay None 2-3 ton/acre	Grass hay None 2-3 ton/acre	Grass hay None 2-3 ton/acre
F6	7.2	Grass hay None 2-3 ton/acre	Grass hay None 2-3 ton/acre	Grass hay None 2-3 ton/acre	Grass hay None 2-3 ton/acre	Grass hay None 2-3 ton/acre
FP10	2.3	Grass hay None 2-3 ton/acre	Grass hay None 2-3 ton/acre	Grass hay None 2-3 ton/acre	Grass hay None 2-3 ton/acre	Grass hay None 2-3 ton/acre
FP12	34	Grasslands, permanent, not harvested None 0-0 none/acre	Grasslands, permanent, not harvested None 0-0 none/acre	Grasslands, permanent, not harvested None 0-0 none/acre	Grasslands, permanent, not harvested None 0-0 none/acre	Grasslands, permanent, not harvested None 0-0 none/acre
FP7	4.5	Grass hay None 2-3 ton/acre	Grass hay None 2-3 ton/acre	Grass hay None 2-3 ton/acre	Grass hay None 2-3 ton/acre	Grass hay None 2-3 ton/acre

Field Name	Field Acres	2024	2025	2026	2027	2028
FP8	3.2	Grass hay None 2-3 ton/acre	Grass hay None 2-3 ton/acre	Grass hay None 2-3 ton/acre	Grass hay None 2-3 ton/acre	Grass hay None 2-3 ton/acre
FP9	3.4	Grass hay None 2-3 ton/acre	Grass hay None 2-3 ton/acre	Grass hay None 2-3 ton/acre	Grass hay None 2-3 ton/acre	Grass hay None 2-3 ton/acre

Summary by Crop:
NOTE: Yields calculated using the midpoint of the SnapPlus yield goal range for each crop.

Crops Grouped By Category		2024	2025	2026	2027	2028
Grass hay	Acres ton	61 153	61 153	61 153	61 153	61 153
Grasslands, permanent, not harvested	Acres none	34 0	34 0	34 0	34 0	34 0

NM2: Application Restriction Compliance Check Report

For Years	**2012 - 2019**
Plan Year	**2019**
Reported For	**Phillips Plating Foytik 8yr**
Printed	**2021-09-16**
Plan Completion/Update Date	**2020-09-29**
SnapPlus Version 20.4 built on 2021-06-03	
C:\SnapPlus2\MySnapPlusData\Foytik\PP Foytik 9-3 8y.snapDb	

Prepared for:
Phillips Plating Foytik 8yr
attn:Neil Foytik

This farm uses both PI and Soil Test P for P2O5 590 Compliance

Rotational Restriction Problems

Field Name	Rotation Years	Problem
F1	2012-2019	Rotational soil loss of 3.8 exceeds T of 3
F1	2012-2019	Rotational average PI of 9 is greater than 6.
F6	2012-2019	Soil test P is greater than 50 ppm; P2O5 balance should be less than zero lb/acre.
FP10	2012-2019	Soil test P is greater than 100 ppm so P2O5 balance should be less than -80 lb / acre.
FP11	2012-2019	Soil test P is greater than 50 ppm; P2O5 balance should be less than zero lb/acre.

Soil Test Problems

No Soil Test Problems

Soil Test Problems Legend	
Too Few Soil Samples	Less than one sample per five acres.
Soil Test Data Too Old	Soil test is greater than 4 years old

Application Restriction Problems

Field Name	Year	Problem	Explanation
F1	2012	Winter manure P2O5 applications exceed this year's crop removal by 39 lbs.	
F1	2012	No winter spreading on slopes steeper than 12% or on uncontoured slopes between 9 and 12%.	
F1	2012	Nutrient applications should not be planned on this field because average soil loss exceeds T.	
F1	2013	This plan uses purchased fertilizer to apply more P2O5 than is recommended for the crop rotation on this field. Reduce or eliminate P2O5 fertilizer on this field.	
F1	2013	Nutrient applications should not be planned on this field because average soil loss exceeds T.	
F1	2018	Nutrient applications should not be planned on this field because average soil loss exceeds T.	
F1	2019	This plan uses purchased fertilizer to apply more P2O5 than is recommended for the crop rotation on this field. Reduce or eliminate P2O5 fertilizer on this field.	
F1	2019	Too few winter manure spreading practices selected; two must be implemented from the Winter Practices list.	
F1	2019	Nutrient applications should not be planned on this field because average soil loss exceeds T.	
F2	2019	Too few winter manure spreading practices selected; two must be implemented from the Winter Practices list.	
F3	2014	This plan uses purchased fertilizer to apply more P2O5 than is recommended for the crop rotation on this field. The P2O5 soil test interpretation is Excessively High for this field. Reduce or eliminate P2O5 fertilizer on this field.	
F3	2014	Winter manure P2O5 applications exceed 60 pounds per acre by 25 lbs.	
F3	2014	No winter spreading on slopes steeper than 12% or on uncontoured slopes between 9 and 12%.	
F3	2015	This plan uses purchased fertilizer to apply more P2O5 than is recommended for the crop rotation on this field. The P2O5 soil test interpretation is Excessively High for this field. Reduce or eliminate P2O5 fertilizer on this field.	
F4	2016	Winter manure P2O5 applications exceed 60 pounds per acre by 2 lbs.	
F4	2016	No winter spreading on slopes steeper than 12% or on uncontoured slopes between 9 and 12%.	

Field Name	Year	Problem	Explanation
F5	2015	This plan uses purchased fertilizer to apply more P2O5 than is recommended for the crop rotation on this field. The P2O5 soil test interpretation is High for this field. Reduce or eliminate P2O5 fertilizer on this field.	
F5	2015	No winter spreading on slopes steeper than 12% or on uncontoured slopes between 9 and 12%.	
F5	2016	This plan uses purchased fertilizer to apply more P2O5 than is recommended for the crop rotation on this field. The P2O5 soil test interpretation is High for this field. Reduce or eliminate P2O5 fertilizer on this field.	
F6	2013	Overapplication of N of 74 lbs N/acre.	
F6	2013	This plan uses purchased fertilizer to apply more P2O5 than is recommended for the crop rotation on this field. The P2O5 soil test interpretation is Excessively High for this field. Reduce or eliminate P2O5 fertilizer on this field.	
F6	2013	Winter manure P2O5 applications exceed 60 pounds per acre by 8 lbs.	
F6	2013	No winter spreading on slopes steeper than 12% or on uncontoured slopes between 9 and 12%.	
F6	2014	This plan uses purchased fertilizer to apply more P2O5 than is recommended for the crop rotation on this field. The P2O5 soil test interpretation is Excessively High for this field. Reduce or eliminate P2O5 fertilizer on this field.	

NM2: Application Restriction Compliance Check Report

For Years	**2024 - 2028**
Plan Year	**2024**
Reported For	**Phillips Plating Foytik 1yr**
Printed	**2022-02-08**
Plan Completion/Update Date	**2020-09-29**
SnapPlus Version 20.4 built on 2021-06-03	
C:\SnapPlus2\MySnapPlusData\Foytik\PP Foytik 9-3 1y.snapDb	

Prepared for:
Phillips Plating Foytik 1yr
attn:Neil Foytik

This farm uses both PI and Soil Test P for P2O5 590 Compliance

Rotational Restriction Problems

Field Name	Rotation Years	Problem
F2	2024-2024	Rotational average PI calculation is invalid.

Soil Test Problems

Field Name	Soil Test Date	Too Few Soil Samples	Soil Test Too Old
F1	2019-09-23		X
F2	2019-09-23		X
F3	2019-09-23		X
F4	2019-09-23		X
F5	2019-09-23		X

Field Name	Soil Test Date	Too Few Soil Samples	Soil Test Too Old
F6	2019-09-23		X
FP10	2019-09-23		X
FP12	2019-09-23		X
FP7	2019-09-23		X
FP8	2019-09-23		X
FP9	2019-09-23		X

Soil Test Problems Legend	
Too Few Soil Samples	Less than one sample per five acres.
Soil Test Data Too Old	Soil test is greater than 4 years old

Application Restriction Problems

No Application Restriction Problems found

NM3: Field Data and 590 Assessment Plan

Reported For	Phillips Plating Foytik 8yr
Printed	2021-09-16
Plan Completion/Update Date	2020-09-29
SnapPlus Version 20.4 built on 2021-06-03	
C:\SnapPlus2\MySnapPlusData\Foytik\PP Foytik 9-3 8y.snapDb	

Prepared for:
Phillips Plating Foytik 8yr
attn:Neil Foytik

Field Data: 97 Total Acres Reported.

Field Name	SubFarm	FSA Trct	FSA Fld	Acres	County	Critical Soil Series & Symbol	F. Slp %	F.Slp Len ft	Below Field Slope To Water %	Dist.To Water ft	Contour/ Filters	Irrig	Tiled	Rotation	Tillage	Report Period	Field "T" t/ac	Rot Avg Soil Loss t/ac	SCI	Rot Avg PI	Soil Test P ppm	Rot P2O5 Bal lb/ac	P2O5 Bal Target lb/ac
F1	N. Foytik			5.4	Price	GLIDDEN 730C	11	150	0 - 2	301 - 1000	No / No	No	No	CsI-AGs-AG-AG-AG-GH-GH-CsI	SP-SP-None-None-None-None-None-None-SP	2012-2019	3	3.8	0.6	9	24	251	-
F2	N. Foytik			6.9	Price	GLIDDEN 730C	11	150	2.1 - 6	301 - 1000	No / No	No	No	AGs-AG-AG-AG-GH-GH-GH-CsI	SP-None-None-None-None-None-None-None-SP	2012-2019	3	1.5	0.9	3	25	-97	-
F3	N. Foytik			10.6	Price	GLIDDEN 730C	11	150	2.1 - 6	0 - 300	No / No	No	No	GH-GH-CsI-AGs-AG-GH-GH-GH	None-None-SP-SP-None-None-None-None	2012-2019	3	1.4	1.1	4	36	131	-
F4	N. Foytik			11.3	Price	GLIDDEN 730C	11	150	2.1 - 6	301 - 1000	No / No	No	No	AG-GH-GH-GH-CsI-AGs-AG-GH	None-None-None-None-SP-SP-None-None	2012-2019	3	1.4	1.0	3	11	-31	-

Field Name	SubFarm	FSA Trct	FSA Fld	Acres	County	Critical Soil Series & Symbol	F. Slp %	F.Slp Len ft	Below Field Slope To Water %	Dist.To Water ft	Contour/ Filters	Irrig	Tiled	Rotation	Tillage	Report Period	Field "T" t/ac	Rot Avg Soil Loss t/ac	SCI	Rot Avg PI	Soil Test P ppm	Rot P2O5 Bal lb/ac	P2O5 Bal Target lb/ac
F5	N. Foytik			6	Price	GLIDDEN 730C	11	150	2.1 - 6	301 - 1000	No / No	No	No	GH-GH-GH-Csl-AGs-AG-AG-GH	None-None-None-SP-SP-None-None-None	2012-2019	3	1.5	1.0	3	27	-123	-
F6	N. Foytik			7.2	Price	GLIDDEN 730C	11	150	2.1 - 6	301 - 1000	No / No	No	No	AG-Csl-AGs-AG-AG-AG-GH-GH	None-SP-SP-None-None-None-None-None	2012-2019	3	2	0.9	4	51	12	0
FP7	N. Foytik			4.5	Price	GLIDDEN 730C	11	150	0 - 2	301 - 1000	No / No	No	No	AG-AG-AG-GH-GH-Prg-Prg-Prg	None-None-None-None-None-None-None-None	2012-2019	3	0	1.6	0	24	-163	-
FP8	N. Foytik			3.2	Price	GLIDDEN 730B	3	200	0 - 2	301 - 1000	No / No	No	No	Prg-Prg-Prg-Prg-Prg-Prg-Prg-Prg	None-None-None-None-None-None-None-None	2012-2019	3	0	2.1	0	14	176	-
FP9	N. Foytik			3.4	Price	GLIDDEN 730C	11	150	2.1 - 6	301 - 1000	No / No	Yes	No	Prg-Prg-Prg-Prg-Prg-Prg-Prg-Prg	None-None-None-None-None-None-None-None	2012-2019	3	0	2.1	0	44	176	-

Field Name	SubFarm	FSA Trct	FSA Fld	Acres	County	Critical Soil Series & Symbol	F. Slp %	F.Slp Len ft	Below Field Slope To Water %	Dist.To Water ft	Contour/ Filters	Irrig	Tiled	Rotation	Tillage	Report Period	Field "T" t/ac	Rot Avg Soil Loss t/ac	SCI	Rot Avg PI	Soil Test P ppm	Rot P2O5 Bal lb/ac	P2O5 Bal Target lb/ac
FP10	N. Foytik			2.3	Price	GLIDDEN 730C	11	150	2.1 - 6	0 - 300	No / No	No	No	Prg-Prg-Prg-Prg-Prg-Prg-Prg-Prg	None-None-None-None-None-None-None-None	2012-2019	3	0	2.1	0	103	176	-80
FP11	N. Foytik			2.4	Price	NEWOOD 3546C	11	150	2.1 - 6	0 - 300	No / No	No	No	Prg-Prg-Prg-Prg-Prg-Prg-Prg-Prg	None-None-None-None-None-None-None-None	2012-2019	4	0	2.1	0	53	176	0
FP12	N. Foytik			34	Price	FORDUM 755A	1	150	0 - 2	0 - 300	No / No	No	No	Pcl-Pcl-Pcl-Pcl-Pcl-Pcl-Pcl-Pcl	None-None-None-None-None-None-None-None	2012-2019	3	0	1.8	0	13	-75	-

Crop Abbreviations

Abbreviation	Crop
AG	Alfalfa/Grass
AGs	Alfalfa/Grass Seeding Spring
Csl	Corn silage
GH	Grass hay
Pcl	Pasture, continuous stocking, low density
Prg	Pasture, rotational stocking, grass

Tillage Abbreviations

Abbreviation	Tillage
None	None
SP	Spring MB Plow

NM3: Field Data and 590 Assessment Plan

Reported For	Phillips Plating Foytik 9-3 5yr
Printed	2022-02-08
Plan Completion/Update Date	2020-09-29
SnapPlus Version 20.4 built on 2021-06-03	
C:\SnapPlus2\MySnapPlusData\Foytik\PP Foytik 9-3 5y.snapDb	

Prepared for:
Phillips Plating Foytik 9-3 5yr
attn:Neil Foytik

Field Data: 97 Total Acres Reported.

Field Name	SubFarm	FSA Trct	FSA Fld	Acres	County	Critical Soil Series & Symbol	F. Slp %	F.Slp Len ft	Below Field Slope To Water %	Dist.To Water ft	Contour/ Filters	Irrig	Tiled	Rotation	Tillage	Report Period	Field "T" t/ac	Rot Avg Soil Loss t/ac	SCI	Rot Avg PI	Soil Test P ppm	Rot P2O5 Bal lb/ac	P2O5 Bal Target lb/ac
F1	N. Foytik			5.4	Price	GLIDDEN 730C	11	150	0 - 2	301 - 1000	No / No	No	No	GH-GH-GH-GH-GH	None-None-None-None-None	2024-2028	3	0	1.5	0	24	-200	-
F2	N. Foytik			6.9	Price	GLIDDEN 730C	11	150	2.1 - 6	301 - 1000	No / No	No	No	GH-GH-GH-GH-GH	None-None-None-None-None	2024-2028	3	0	1.5	0	25	-200	-
F3	N. Foytik			10.6	Price	GLIDDEN 730C	11	150	2.1 - 6	0 - 300	No / No	No	No	GH-GH-GH-GH-GH	None-None-None-None-None	2024-2028	3	0	1.5	0	36	-200	-
F4	N. Foytik			11.3	Price	GLIDDEN 730C	11	150	2.1 - 6	301 - 1000	No / No	No	No	GH-GH-GH-GH-GH	None-None-None-None-None	2024-2028	3	0	1.5	0	11	140	-
F5	N. Foytik			6	Price	GLIDDEN 730C	11	150	2.1 - 6	301 - 1000	No / No	No	No	GH-GH-GH-GH-GH	None-None-None-None-None	2024-2028	3	0	1.5	0	27	-146	-

Field Name	SubFarm	FSA Trct	FSA Fld	Acres	County	Critical Soil Series & Symbol	F. Slp %	F.Slp Len ft	Below Field Slope To Water %	Dist.To Water ft	Contour/ Filters	Irrig	Tiled	Rotation	Tillage	Report Period	Field "T" t/ac	Rot Avg Soil Loss t/ac	SCI	Rot Avg PI	Soil Test P ppm	Rot P2O5 Bal lb/ac	P2O5 Bal Target lb/ac
F6	N. Foytik			7.2	Price	GLIDDEN 730C	11	150	2.1 - 6	301 - 1000	No / No	No	No	GH-GH-GH-GH-GH	None-None-None-None-None	2024-2028	3	0	1.5	0	51	-200	0
FP7	N. Foytik			4.5	Price	GLIDDEN 730C	11	150	0 - 2	301 - 1000	No / No	No	No	GH-GH-GH-GH-GH	None-None-None-None-None	2024-2028	3	0	1.5	0	24	-200	-
FP8	N. Foytik			3.2	Price	GLIDDEN 730B	3	200	0 - 2	301 - 1000	No / No	No	No	GH-GH-GH-GH-GH	None-None-None-None-None	2024-2028	3	0	1.5	0	14	140	-
FP9	N. Foytik			3.4	Price	GLIDDEN 730C	11	150	2.1 - 6	301 - 1000	No / No	Yes	No	GH-GH-GH-GH-GH	None-None-None-None-None	2024-2028	3	0	1.5	0	44	-200	-
FP10	N. Foytik			2.3	Price	GLIDDEN 730C	11	150	2.1 - 6	0 - 300	No / No	No	No	GH-GH-GH-GH-GH	None-None-None-None-None	2024-2028	3	0	1.5	0	103	-200	-50
FP11	N. Foytik			2.4	Price	NEWOOD 3546C	11	150	2.1 - 6	0 - 300	No / No	No	No	GH-GH-GH-GH-GH	None-None-None-None-None	2024-2028	4	0	1.5	0	53	-200	0
FP12	N. Foytik			34	Price	FORDUM 755A	1	150	0 - 2	0 - 300	No / No	No	No	Gnh-Gnh-Gnh-Gnh-Gnh	None-None-None-None-None	2024-2028	3	0	1.7	0	13	0	–

Crop Abbreviations

Abbreviation	Crop
GH	Grass hay
Gnh	Grasslands, permanent, not harvested

Tillage Abbreviations

Abbreviation	Tillage
None	None

ARM-LWR-480.docx (REV. 06/22/17)

Wisconsin Department of Agriculture, Trade and Consumer Protection
Division of Agricultural Resource Management
Bureau of Land and Water Resources
PO Box 8911, Madison WI 53708-8911, Phone: 608-224-4605

Use this form to check nutrient management (NM) plans for compliance with the WI NRCS 2015-590 Standard.

Nutrient Management Checklist

Wis. Stat. §92.05(3) (k), Wis. Admin. Code §ATCP50.04(3) and Ch. 51

COUNTY **Price**	DATE PLAN SUBMITTED **10/14/2021**	GROWING SEASON YEAR PLAN IS WRITTEN FOR **2019** (from harvest to harvest)
TOWNSHIP: (T. N.) RANGE: (R. E., W).		CHECK ONE: Initial Plan or Updated Plan

NAME OF FARM OPERATOR RECEIVING NM PLAN	FARM NAME (OPTIONAL)	BUSINESS PHONE
Neil Foytik	**Phillips Plating Foytik 8yr**	**262 492 1840**

STREET ADDRESS	CITY	STATE	ZIP
		WI	

REASON THE PLAN WAS DEVELOPED:	CROPLAND ACRES (OWNED & RENTED)
	97

RENTED FARM(S) LANDOWNER NAME(S) AND ACREAGE: add sheet(s) if needed

WAS THE PLAN WRITTEN IN SNAPPLUS? **YES** If yes, which software version, if known? **20.4**

CHECK PLANNER'S QUALIFICATION:
(1. NAICC-CPCC, 2. ASA-CCA, 3. SSSA-Soil Scientist, 4. DATCP approved training course, 5. Other approved by DATCP)

NAME OF QUALIFIED NUTRIENT MANAGEMENT PLANNER	BUSINESS PHONE

STREET ADDRESS	CITY	STATE	ZIP

Use header sections to add comments. Mark NA in the shaded sections if no manure is applied.

1. Does the plan include the following nutrient application requirements to protect surface and groundwater?

This section applies to fields and pastures. If no manure is applied, check NA for 1.c., 1.h., 1.i., 1.n., 1.o., 1.q., 1.s.	Yes	No	NA
a. Determine field nutrient levels from soil samples analyzed by a DATCP **certified laboratory**.	X		
b. For fields or pastures with mechanical nutrient applications, determine field nutrient levels from **soil samples** collected within the last **4 years** according to 590 Standard (590) and UWEX Pub. A2809, *Nutrient Application Guidelines for Field, Vegetable, and Fruit Crops in Wisconsin* (A2809) typically collecting **1 sample per 5 acres** of 10 cores. Soil tests are not required on **pastures** that do not receive mechanical applications of nutrients if either of the following applies: 1. The pasture average stocking rate is one animal unit per acre or less at all times during the grazing season. 2. The pasture is winter grazed or stocked at an average stocking rate of more than one animal unit per acre during the grazing season, and a nutrient management plan for the pasture complies with 590 using an assumed soil test phosphorus level of 150 PPM and organic matter content of 6%.	X		
c. For **livestock siting permit approval**, collect and analyze soil samples meeting the requirements above in 1. b., excluding pastures, within 12 months of approval and revise the nutrient management plan accordingly. Until then, either option below maybe used: 1. Assume soil test phosphorus levels are greater than 100 ppm soil test P, OR 2. Use preliminary estimates analyzed by a certified DATCP laboratory with soil samples representing > 5 ac/sample.			X
d. **Identify all fields'** name, boundary, acres, and location.	X		
e. Use the field's previous year's legume credit and/or applications, predominant soil series, and realistic yield goals to determine the crop's nutrient **application rates consistent with A2809 for ALL forms of N, P, and K**.		X	
f. Make no **winter applications of N and P** fertilizer, except on grass pastures and winter grains.	X		
g. Document method used to determine **application rates**. Nutrients shall not runoff during or immediately after application.	X		
h. Identify in the plan that **adequate acreage** is available for manure produced and/or applied.		X	
i. Apply a single phosphorus (P) assessment using either the **P Index** or **soil test P** management strategy to all fields within a tract when fields receive manure or organic by-products during the crop rotation.		X	
j. Use **complete crop rotations** and the field's **critical soil** series to determine that sheet and rill erosion estimates will not exceed **tolerable soil loss** (T) rates on fields that receive nutrients.		X	
k. Use contours; reduce tillage; adjust the crop rotation; or implement other practices to **prevent ephemeral erosion**; and maintain perennial vegetative cover to **prevent reoccurring gullies** in areas of concentrated flow.			
l. Make no nutrient applications within 8' of **irrigation** wells or where **vegetation is not removed**.			
m. Make no nutrient applications within **50' of all direct conduits to groundwater**, unless directly deposited by gleaning/pasturing animals or applied as starter fertilizer to corn.			

	Yes	No	NA
n. Make no **untreated manure applications** to areas within 1000' of a **community potable water well** or within 100' of a **non-community potable water well** (ex. church, school, restaurant) unless manure is treated to substantially eliminate pathogens.			
o. Make no manure applications to areas **locally delineated** by the Land Conservation Committee or in a conservation plan as areas contributing runoff to direct conduits to groundwater unless manure is substantially buried within 24 hours of application.			X
p. Make no applications of **late summer or fall commercial N fertilizer** to the following areas UNLESS needed for establishment of fall seeded crops OR to meet A2809 with a blended commercial fertilizer. Commercial fertilizer N applications shall not exceed 36 lbs. N/acre on: • Sites vulnerable to N leaching **PRW Soils** (P=high permeability, R= bedrock < 20 inches, or W= wet < 12 inches to apparent water table); • Soils with depths of 5 feet or less to bedrock; • Area within 1,000 feet of a community potable water well. On **P soils, when commercial N is applied** for full season crops in **spring and summer**, follow A2809 and apply one of the following: 1. A split or delayed N application to apply a majority of crop N requirement after crop establishment. 2. Use a nitrification inhibitor with ammonium forms of N. 3. Use slow and controlled release fertilizers for a majority of the crop N requirement applied near the time of planting.	X		
q. Limit manure applications in late summer or fall using the lesser of A2809 or the following 590 rates on **PRW Soils.** Use ≤ 120 lbs. available N/acre on: **P and R soils** on *all crops, except annual crops*. Additionally, manure with ≤ 4% dry matter (DM) wait until after soil temp. < 50°F or Oct. 1, and use either a nitrification inhibitor OR surface apply and do not incorporate for at least 3 days. **W soils or combo. W soils** on *all crops.* Additionally, manure with ≤ 4% DM on *all crops* use at least one of the following: **1.** Use a nitrification inhibitor; **2.** Apply on an established cover crop, an overwintering annual, or perennial crop; **3.** Establish a cover crop within 14 days of application; **4.** Surface apply & don't incorporate for at least 3 days; **5.** Wait until after soil temp. < 50°F or Oct. 1. Use ≤ 90 lbs. available N/acre on: **P and R soils** on *annual crops* wait until after soil temp. < 50°F or Oct. 1. Additionally, manure with ≤ 4% DM use either a nitrification inhibitor OR surface apply and do not incorporate for at least 3 days. **W soils or combination W soils** receiving manure with ≤ 4% DM on *all crops*.	X		
r. Use at least one of the following practices on **non-frozen soils for all nutrient applications** within **Surface Water Quality Management Area (SWQMA)** = 1000' of lakes/ponds or 300' of rivers: **1.** Maintain > 30% cover after nutrient application; **2.** Effective incorporation within 72 hours of application; **3.** Establish crops prior to, at, or promptly following application; **4.** Install/maintain vegetative buffers or filter strips; **5.** Have at least 3 consecutive years no-till for applications to fields with < 30% residue (silage) and apply nutrients within 7 days of planting.	X		
s. Limit mechanical applications to **12,000 gals/acre of unincorporated liquid manure or organic by-products with 11% or less dry matter where subsurface drainage is present** OR **within SWQMA**. Wait a minimum of 7 days between sequential applications AND use one or more of the practice options on non-frozen soils listed in 1.r.1. through **1.r.5.**	X		

2. When frozen or snow-covered soils prevent effective incorporation, does the plan follow these requirements for winter applications of all mechanically applied manure or organic by-products? *This section doesn't apply to winter gleaning/pasturing meeting 590 N and P requirements.*

If no manure is applied, check NA for 2.a. through 2.g..	Yes	No	NA
a. Identify **manure quantities planned to be spread during the winter**, or the amount of manure generated in 14 days, whichever is greater. *For daily haul systems, assume 1/3 of the manure produced annually will need to be winter applied.*			
b. Identify **manure storage capacity** for each type applied and stacking capacity for manure ≥ 16% DM if permanent storage does not exist.			
c. Show on map and make no applications within the **SWQMA**.	X		
d. Show on map and make no surface applications of liquid manure during **February and March** where **Silurian dolomite** is within 60 inches of the soils surface OR where **DNR Well Compensation** funds provided replacement water supplies for wells contaminated with livestock manure.			X
e. Show on map and make no applications of manure within **300 feet** of **direct conduits to groundwater**.			
f. Do not exceed the P removal of the following growing season's crop when applying manure. Liquid manure applications are limited to **7,000 g/acre**. All winter manure applications are not to exceed **60 lbs. of P2O5/acre**.	X		
g. Make no applications of manure to fields with **concentrated flow channels** unless using two of the following: **1.** Contour buffer strips or contour strip cropping; **2.** Leave all crop residue and no fall tillage; **3.** Apply manure in intermittent strips on no more than 50% of field; **4.** Apply manure on no more than 25% of the field waiting a minimum of 14 days between applications; **5.** Reduce manure app. rate to 3,500 gal. or 30 lbs. P2O5, whichever is less; **6.** No manure application within 200 feet of all concentrated flow channels; **7.** Fall tillage is on the contour and slopes are lower than 6%. Make no applications to **slopes greater than 6%** (soil map units with C, D, E, and F slopes) unless the plan documents that no other accessible fields are available for winter spreading AND two of the options 2.g.**1.** through 2.g.**5.** are used.		X	

I certify that the plan represented by the answers on this checklist complies with Wisconsin's NRCS 2015-590 NM Standard or is otherwise noted.

Qualified NM planner signature NAICC-*Certified Professional Crop Consultant*, ASA-*Certified Crop Adviser*, or SSSA-*Soil Scientist* Date

Qualified NM farmer-planner or Authorized farm operator signature receiving and understanding the plan Date

Signature if reviewed for quality assurance Date

Wisconsin Department of Agriculture, Trade and Consumer Protection
Division of Agricultural Resource Management
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Nutrient Management Checklist

Wis. Stat. §92.05(3) (k), Wis. Admin. Code §ATCP50.04(3) and Ch. 51

COUNTY **Price** DATE PLAN SUBMITTED **2/8/2022** GROWING SEASON YEAR PLAN IS WRITTEN FOR **2024** (from harvest to harvest)

TOWNSHIP: (T. N.) RANGE: (R. E., W). CHECK ONE: Initial Plan or Updated Plan

NAME OF FARM OPERATOR RECEIVING NM PLAN	FARM NAME (OPTIONAL)	BUSINESS PHONE
Neil Foytik	**Phillips Plating Foytik 1yr**	**262 492 1840**

STREET ADDRESS	CITY	STATE	ZIP
		WI	

REASON THE PLAN WAS DEVELOPED:	CROPLAND ACRES (OWNED & RENTED)
	95

RENTED FARM(S) LANDOWNER NAME(S) AND ACREAGE: add sheet(s) if needed

WAS THE PLAN WRITTEN IN SNAPPLUS? **YES** If yes, which software version, if known? **20.4**

CHECK PLANNER'S QUALIFICATION:
(1. NAICC-CPCC, 2. ASA-CCA, 3. SSSA-Soil Scientist, 4. DATCP approved training course, 5. Other approved by DATCP)

NAME OF QUALIFIED NUTRIENT MANAGEMENT PLANNER	BUSINESS PHONE

STREET ADDRESS	CITY	STATE	ZIP

Use header sections to add comments. Mark NA in the shaded sections if no manure is applied.

1. Does the plan include the following nutrient application requirements to protect surface and groundwater?

This section applies to fields and pastures. If no manure is applied, check NA for 1.c., 1.h., 1.i., 1.n., 1.o., 1.q., 1.s.	Yes	No	NA
a. Determine field nutrient levels from soil samples analyzed by a DATCP **certified laboratory**.	X		
b. For fields or pastures with mechanical nutrient applications, determine field nutrient levels from **soil samples** collected within the last **4 years** according to 590 Standard (590) and UWEX Pub. A2809, *Nutrient Application Guidelines for Field, Vegetable, and Fruit Crops in Wisconsin* (A2809) typically collecting **1 sample per 5 acres** of 10 cores. Soil tests are not required on **pastures** that do not receive mechanical applications of nutrients if either of the following applies: 1. The pasture average stocking rate is one animal unit per acre or less at all times during the grazing season. 2. The pasture is winter grazed or stocked at an average stocking rate of more than one animal unit per acre during the grazing season, and a nutrient management plan for the pasture complies with 590 using an assumed soil test phosphorus level of 150 PPM and organic matter content of 6%.		X	
c. For **livestock siting permit approval**, collect and analyze soil samples meeting the requirements above in 1. b., excluding pastures, within 12 months of approval and revise the nutrient management plan accordingly. Until then, either option below maybe used: 1. Assume soil test phosphorus levels are greater than 100 ppm soil test P, OR 2. Use preliminary estimates analyzed by a certified DATCP laboratory with soil samples representing > 5 ac/sample.			X
d. **Identify all fields'** name, boundary, acres, and location.	X		
e. Use the field's previous year's legume credit and/or applications, predominant soil series, and realistic yield goals to determine the crop's nutrient **application rates consistent with A2809 for ALL forms of N, P, and K**.	X		
f. Make no **winter applications of N and P** fertilizer, except on grass pastures and winter grains.	X		
g. Document method used to determine **application rates**. Nutrients shall not runoff during or immediately after application.	X		
h. Identify in the plan that **adequate acreage** is available for manure produced and/or applied.			X
i. Apply a single phosphorus (P) assessment using either the **P Index** or **soil test P** management strategy to all fields within a tract when fields receive manure or organic by-products during the crop rotation.			X
j. Use **complete crop rotations** and the field's **critical soil** series to determine that sheet and rill erosion estimates will not exceed **tolerable soil loss** (T) rates on fields that receive nutrients.	X		
k. Use contours; reduce tillage; adjust the crop rotation; or implement other practices to **prevent ephemeral erosion**; and maintain perennial vegetative cover to **prevent reoccurring gullies** in areas of concentrated flow.			
l. Make no nutrient applications within 8' of **irrigation** wells or where **vegetation is not removed**.			
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	Yes	No	NA
n. Make no **untreated manure applications** to areas within 1000' of a **community potable water well** or within 100' of a **non-community potable water well** (ex. church, school, restaurant) unless manure is treated to substantially eliminate pathogens.			X
o. Make no manure applications to areas **locally delineated** by the Land Conservation Committee or in a conservation plan as areas contributing runoff to direct conduits to groundwater unless manure is substantially buried within 24 hours of application.			X
p. Make no applications of **late summer or fall commercial N fertilizer** to the following areas UNLESS needed for establishment of fall seeded crops OR to meet A2809 with a blended commercial fertilizer. Commercial fertilizer N applications shall not exceed 36 lbs. N/acre on: • Sites vulnerable to N leaching **PRW Soils** (P=high permeability, R= bedrock < 20 inches, or W= wet < 12 inches to apparent water table); • Soils with depths of 5 feet or less to bedrock; • Area within 1,000 feet of a community potable water well. On **P soils, when commercial N is applied** for full season crops in **spring and summer**, follow A2809 and apply one of the following: 1. A split or delayed N application to apply a majority of crop N requirement after crop establishment. 2. Use a nitrification inhibitor with ammonium forms of N. 3. Use slow and controlled release fertilizers for a majority of the crop N requirement applied near the time of planting.	X		
q. Limit manure applications in late summer or fall using the lesser of A2809 or the following 590 rates on **PRW Soils.** Use ≤ 120 lbs. available N/acre on: **P and R soils** on *all crops, except annual crops*. Additionally, manure with ≤ 4% dry matter (DM) wait until after soil temp. < 50°F or Oct. 1, and use either a nitrification inhibitor OR surface apply and do not incorporate for at least 3 days. **W soils or combo. W soils** on *all crops.* Additionally, manure with ≤ 4% DM on *all crops* use at least one of the following: **1.** Use a nitrification inhibitor; **2.** Apply on an established cover crop, an overwintering annual, or perennial crop; **3.** Establish a cover crop within 14 days of application; **4.** Surface apply & don't incorporate for at least 3 days; **5.** Wait until after soil temp. < 50°F or Oct. 1. Use ≤ 90 lbs. available N/acre on: **P and R soils** on *annual crops* wait until after soil temp. < 50°F or Oct. 1. Additionally, manure with ≤ 4% DM use either a nitrification inhibitor OR surface apply and do not incorporate for at least 3 days. **W soils or combination W soils** receiving manure with ≤ 4% DM on *all crops*.			X
r. Use at least one of the following practices on **non-frozen soils for all nutrient applications** within **Surface Water Quality Management Area (SWQMA)** = 1000' of lakes/ponds or 300' of rivers: **1.** Maintain > 30% cover after nutrient application; **2.** Effective incorporation within 72 hours of application; **3.** Establish crops prior to, at, or promptly following application; **4.** Install/maintain vegetative buffers or filter strips; **5.** Have at least 3 consecutive years no-till for applications to fields with < 30% residue (silage) and apply nutrients within 7 days of planting.	X		
s. Limit mechanical applications to **12,000 gals/acre of unincorporated liquid manure or organic by-products with 11% or less dry matter where subsurface drainage is present** OR **within SWQMA.** Wait a minimum of 7 days between sequential applications AND use one or more of the practice options on non-frozen soils listed in 1.r.1. through **1.r.5.**			X

2. When frozen or snow-covered soils prevent effective incorporation, does the plan follow these requirements for winter applications of all mechanically applied manure or organic by-products? *This section doesn't apply to winter gleaning/pasturing meeting 590 N and P requirements.*

If no manure is applied, check NA for 2.a. through 2.g..	Yes	No	NA
a. Identify **manure quantities planned to be spread during the winter**, or the amount of manure generated in 14 days, whichever is greater. *For daily haul systems, assume 1/3 of the manure produced annually will need to be winter applied.*			X
b. Identify **manure storage capacity** for each type applied and stacking capacity for manure ≥ 16% DM if permanent storage does not exist.			X
c. Show on map and make no applications within the **SWQMA**.			X
d. Show on map and make no surface applications of liquid manure during **February and March** where **Silurian dolomite** is within 60 inches of the soils surface OR where **DNR Well Compensation** funds provided replacement water supplies for wells contaminated with livestock manure.			X
e. Show on map and make no applications of manure within **300 feet** of **direct conduits to groundwater**.			X
f. Do not exceed the P removal of the following growing season's crop when applying manure. Liquid manure applications are limited to **7,000 g/acre**. All winter manure applications are not to exceed **60 lbs. of P2O5/acre**.			X
g. Make no applications of manure to fields with **concentrated flow channels** unless using two of the following: **1.** Contour buffer strips or contour strip cropping; **2.** Leave all crop residue and no fall tillage; **3.** Apply manure in intermittent strips on no more than 50% of field; **4.** Apply manure on no more than 25% of the field waiting a minimum of 14 days between applications; **5.** Reduce manure app. rate to 3,500 gal. or 30 lbs. P2O5, whichever is less; **6.** No manure application within 200 feet of all concentrated flow channels; **7.** Fall tillage is on the contour and slopes are lower than 6%. Make no applications to **slopes greater than 6%** (soil map units with C, D, E, and F slopes) unless the plan documents that no other accessible fields are available for winter spreading AND two of the options 2.g.**1.** through 2.g.**5.** are used.			X

I certify that the plan represented by the answers on this checklist complies with Wisconsin's NRCS 2015-590 NM Standard or is otherwise noted.

Qualified NM planner signature	NAICC-*Certified Professional Crop Consultant*, ASA-*Certified Crop Adviser*, or SSSA-*Soil Scientist*	Date

Qualified NM farmer-planner or Authorized farm operator signature receiving and understanding the plan	Date	Signature if reviewed for quality assurance	Date

FM6: Soil Test Report

Reported For	Phillips Plating Foytik 8yr
Printed	2021-09-16
Plan Completion/Update Date	2020-09-29
SnapPlus Version 20.4 built on 2021-06-03	
C:\SnapPlus2\MySnapPlusData\Foytik\PP Foytik 9-3 8y.snapDb	

Prepared for:
Phillips Plating Foytik 8yr
attn:Neil Foytik

			Predominant					Samples				in ppm			
Field Name	Subfarm	Acres	Soil Map Symbol	Soil Name	Soil Test Date	Soil Test Lab	Lab Number	Rec. #	Actual #	pH	OM%	P	K	S	CEC
F1	N. Foytik	5.4	948A	BILLYBOY	2019-09-23	Dairyland Labs	8S3976	1	2	5.1	3.3	24	41	0	0
F2	N. Foytik	6.9	730B	GLIDDEN	2019-09-23	Dairyland Labs	8S3976	1	2	5.1	3.1	25	52	0	0
F3	N. Foytik	10.6	730B	GLIDDEN	2019-09-23	Dairyland Labs	8S3976	2	3	6.0	3.7	36	57	0	0
F4	N. Foytik	11.3	730C	GLIDDEN	2019-09-23	Dairyland Labs	8S3976	2	3	6.1	3.4	11	55	0	0
F5	N. Foytik	6	948A	BILLYBOY	2019-09-23	Dairyland Labs	8S3976	1	2	6.2	3.7	27	47	0	0
F6	N. Foytik	7.2	948A	BILLYBOY	2019-09-23	Dairyland Labs	8S3976	1	2	5.8	3.3	51	49	0	0
FP10	N. Foytik	2.3	701A	WHISKLAKE	2019-09-23	Dairyland Labs	8S3976	1	1	6.1	4.4	103	169	0	0
FP11	N. Foytik	2.4	3546C	NEWOOD	2019-09-23	Dairyland Labs	8S3976	1	1	6.4	4.3	53	50	0	0
FP12	N. Foytik	34	755A	FORDUM	2019-09-23	Dairyland Labs	8S3976	7	8	5.5	5.6	13	32	0	0
FP7	N. Foytik	4.5	948A	BILLYBOY	2019-09-23	Dairyland Labs	8S3976	1	1	5.9	3.7	24	63	0	0
FP8	N. Foytik	3.2	948A	BILLYBOY	2019-09-23	Dairyland Labs	8S3976	1	1	6.0	6.3	14	48	0	0
FP9	N. Foytik	3.4	730C	GLIDDEN	2019-09-23	Dairyland Labs	8S3976	1	1	6.4	5.0	44	192	0	0

Crop Year Soil Test Needed

Field Name	Soil Test Date	2019	2020	2021	2022	2023	2024	2025
F1	2019-09-23						X	
F2	2019-09-23						X	
F3	2019-09-23						X	
F4	2019-09-23						X	
F5	2019-09-23						X	
F6	2019-09-23						X	
FP10	2019-09-23						X	
FP11	2019-09-23						X	
FP12	2019-09-23						X	
FP7	2019-09-23						X	
FP8	2019-09-23						X	
FP9	2019-09-23						X	

NM1: Narrative and Crops Report

Starting Year	**2012**
Reported For	**Phillips Plating-Lund 9-3 3 fields 8yr**
Printed	**2021-09-20**
Plan Completion/Update Date:	**2020-09-29**
SnapPlus Version 20.4 built on 2021-06-03	
C:\SnapPlus2\MySnapPlusData\Lund\Lund NO F-12\PP Lund 9-3 8 yr No f-12.snapDb	

Prepared for:
Phillips Plating-Lund 9-3 3 fields 8yr
attn:Anders Lund

Farm has 3 fields totalling 14.1 cropped acres.
Farm Narrative: Neil Foytik had a dairy operation with a milking herd of 35 lactating (20 X 1,400 lbs + 15 X 1,200 lbs) and seven dry cows (4X 1,400 lbs + 3 X 1,200 lbs) and a heifer herd of eight 750 lb heifers, nine 1,000 lb heifers, six 150 lbs calves, six 250 lb calves and one 1,400 lbs bull. There was no manure storage, so manure from both herds indoors 24 hrs/day in winter was hauled daily (from Nov 15 to May 15) to fields planned for corn planting in the following spring. Overnight (½ day milking to milking) manure from the milking herd was hauled every other day or three times per week to the oldest, grassiest hayfields (May 15 to Nov 15). Six months per year outdoor manure from the dairy herd was pasture-delivered to each of the five rotation-grazed pastures. Six months per year outdoor manure from the heifer herd was pasture-delivered to FP-12 and FP-12 lot.

An eight-year, target crop rotation started with one or two years of corn followed by alfalfa (red clover on Norek) that converted to grass for end the rotation. The corn and alfalfa planting was preceded by spring mold board plowing and spring disking. The target 8-yr rotation was often varied due to crop yield and weather variability. The average crop year included 15 acres of corn silage among the Foytik, Norek, and Lund properties. Winter manure was hauled to the to-be-corn fields regardless of ownership while indoor summer manure production was spread only on the Foytik and Lund grassy fields.

Corn fields received commercial fertilizer in addition to the manure. Alfalfa seedings received commercial fertilizer. No other fields or pastures received commercial fertilizer.

All the cattle were sold in the summer of 2020, the corn fields were planted to a hay pasture mixture, pastures, alfalfa fields, and the grassy hay fields were not tilled or replanted. Barnyards and feedlot/exercise areas were allowed to vegetate naturally.

NW1/4 SE1/4 S26 37N 1E
The Anders Lund Farm was rented by Neil Foytik for dairy production. Now all fields have been seeded to permanent hayland with nutrient additions limited by this Nutrient Management Plan. No manure or whole field tillage is allowed. F-12 is not part of this trade. Fields F-13, F-15, and F-16 have been converted to permanent hayland vegetation. There is no F-14.

Annual Farm Notes:

No Annual Farm Notes

Spreader Calibration Methods: Amount applied / Acres

Narrative and Crops:

Field Name	Field Acres	2012	2013	2014	2015	2016	2017	2018	2019
F13	2.1	Corn silage Spring MB Plow 10-15 ton/acre	Corn silage Spring MB Plow 15.1-20 ton/acre	Alfalfa/Grass Seeding Spring Spring MB Plow 1.0-2.5 ton/acre	Alfalfa/Grass None 3.6-4.5 ton/acre	Alfalfa/Grass None 3.6-4.5 ton/acre	Grass hay None 2-3 ton/acre	Grass hay None 2-3 ton/acre	Grass hay None 3.1-4 ton/acre
F15	7.2	Alfalfa/Grass None 2.6-3.5 ton/acre	Grass hay None 3.1-4 ton/acre	Grass hay None 3.1-4 ton/acre	Corn silage Spring MB Plow 15.1-20 ton/acre	Alfalfa/Grass Seeding Spring Spring MB Plow 1.0-2.5 ton/acre	Alfalfa/Grass None 2.6-3.5 ton/acre	Alfalfa/Grass None 3.6-4.5 ton/acre	Grass hay None 3.1-4 ton/acre
F16	4.8	Alfalfa/Grass None 3.6-4.5 ton/acre	Alfalfa/Grass None 3.6-4.5 ton/acre	Grass hay None 2-3 ton/acre	Grass hay None 2-3 ton/acre	Grass hay None 2-3 ton/acre	Grass hay None 2-3 ton/acre	Corn silage Spring MB Plow 15.1-20 ton/acre	Corn silage Spring MB Plow 15.1-20 ton/acre

Summary by Crop:
NOTE: Yields calculated using the midpoint of the SnapPlus yield goal range for each crop.

Crops Grouped By Category		2012	2013	2014	2015	2016	2017	2018	2019
Alfalfa/Grass	Acres ton	12 37	5 20		2 8	2 8	7 21	7 28	
Alfalfa/Grass Seeding Spring	Acres ton			2 4		7 12			
Corn silage	Acres ton	2 25	2 35		7 123			5 88	5 88
Grass hay	Acres ton		7 25	12 43	5 13	5 13	7 18	2 5	9 32

NM1: Narrative and Crops Report

Starting Year	**2024**
Reported For	**Phillips Plating-Lund 9-3 1yr 3 fields**
Printed	**2021-09-20**
Plan Completion/Update Date:	**2020-09-29**
SnapPlus Version 20.4 built on 2021-06-03	
C:\SnapPlus2\MySnapPlusData\Lund\Lund NO F-12\PP Lund 9-3 1 yr No F-12.snapDb	

Prepared for:
Phillips Plating-Lund 9-3 1yr 3 fields
attn:Anders Lund

Farm has 3 fields totalling 14.1 cropped acres.
Farm Narrative: Neil Foytik had a dairy operation with a milking herd of 35 lactating (20 X 1,400 lbs + 15 X 1,200 lbs) and seven dry cows (4X 1,400 lbs + 3 X 1,200 lbs) and a heifer herd of eight 750 lb heifers, nine 1,000 lb heifers, six 150 lbs calves, six 250 lb calves and one 1,400 lbs bull. There was no manure storage, so manure from both herds indoors 24 hrs/day in winter was hauled daily (from Nov 15 to May 15) to fields planned for corn planting in the following spring. Overnight (½ day milking to milking) manure from the milking herd was hauled every other day or three times per week to the oldest, grassiest hayfields (May 15 to Nov 15). Six months per year outdoor manure from the dairy herd was pasture-delivered to each of the five rotation-grazed pastures. Six months per year outdoor manure from the heifer herd was pasture-delivered to FP-12 and FP-12 lot.

An eight-year, target crop rotation started with one or two years of corn followed by alfalfa (red clover on Norek) that converted to grass for end the rotation. The corn and alfalfa planting was preceded by spring mold board plowing and spring disking. The target 8-yr rotation was often varied due to crop yield and weather variability. The average crop year included 15 acres of corn silage among the Foytik, Norek, and Lund properties. Winter manure was hauled to the to-be-corn fields regardless of ownership while indoor summer manure production was spread only on the Foytik and Lund grassy fields.

Corn fields received commercial fertilizer in addition to the manure. Alfalfa seedings received commercial fertilizer. No other fields or pastures received commercial fertilizer.

All the cattle were sold in the summer of 2020, the corn fields were planted to a hay pasture mixture, pastures, alfalfa fields, and the grassy hay fields were not tilled or replanted. Barnyards and feedlot/exercise areas were allowed to vegetate naturally.

NW1/4 SE1/4 S26 37N 1E
The Anders Lund Farm was rented by Neil Foytik for dairy production. Now all fields have been seeded to permanent hayland with nutrient additions limited by this Nutrient Management Plan. No manure or whole field tillage is allowed. F-12 is not part of this trade. Fields F-13, F-15, and F-16 have been converted to permanent hayland vegetation. There is no F-14.

Annual Farm Notes:

No Annual Farm Notes

Spreader Calibration Methods: Amount applied / Acres

Narrative and Crops:

Field Name	Field Acres	2024	2025	2026	2027	2028
F13	2.1	Grass hay None 2-3 ton/acre	Grass hay None 2-3 ton/acre	Grass hay None 2-3 ton/acre	Grass hay None 2-3 ton/acre	Grass hay None 2-3 ton/acre
F15	7.2	Grass hay None 2-3 ton/acre	Grass hay None 2-3 ton/acre	Grass hay None 2-3 ton/acre	Grass hay None 2-3 ton/acre	Grass hay None 2-3 ton/acre
F16	4.8	Grass hay None 2-3 ton/acre	Grass hay None 2-3 ton/acre	Grass hay None 2-3 ton/acre	Grass hay None 2-3 ton/acre	Grass hay None 2-3 ton/acre

Summary by Crop:
NOTE: Yields calculated using the midpoint of the SnapPlus yield goal range for each crop.

Crops Grouped By Category		2024	2025	2026	2027	2028
Grass hay	Acres ton	14 35	14 35	14 35	14 35	14 35

NM2: Application Restriction Compliance Check Report

For Years	**2012 - 2019**
Plan Year	**2019**
Reported For	**Phillips Plating-Lund 9-3 3 fields 8yr**
Printed	**2021-09-20**
Plan Completion/Update Date	**2020-09-29**
SnapPlus Version 20.4 built on 2021-06-03	
C:\SnapPlus2\MySnapPlusData\Lund\Lund NO F-12\PP Lund 9-3 8 yr No f-12.snapDb	

Prepared for:
Phillips Plating-Lund 9-3 3 fields 8yr
attn:Anders Lund

This farm uses both PI and Soil Test P for P2O5 590 Compliance

Rotational Restriction Problems

Field Name	Rotation Years	Problem
F13	2012-2019	Rotational average PI of 9 is greater than 6.

Soil Test Problems

No Soil Test Problems

Soil Test Problems Legend	
Too Few Soil Samples	Less than one sample per five acres.
Soil Test Data Too Old	Soil test is greater than 4 years old

Application Restriction Problems

Field Name	Year	Problem	Explanation
F13	2012	Overapplication of N of 136 lbs N/acre.	
F13	2012	Winter manure P2O5 applications exceed this year's crop removal by 39 lbs.	
F13	2013	Overapplication of N of 23 lbs N/acre.	
F13	2013	This plan uses purchased fertilizer to apply more P2O5 than is recommended for the crop rotation on this field. Reduce or eliminate P2O5 fertilizer on this field.	
F13	2013	Winter manure P2O5 applications exceed 60 pounds per acre by 8 lbs.	
F16	2018	This plan uses purchased fertilizer to apply more P2O5 than is recommended for the crop rotation on this field. The P2O5 soil test interpretation is High for this field. Reduce or eliminate P2O5 fertilizer on this field.	
F16	2019	This plan uses purchased fertilizer to apply more P2O5 than is recommended for the crop rotation on this field. The P2O5 soil test interpretation is High for this field. Reduce or eliminate P2O5 fertilizer on this field.	

NM2: Application Restriction Compliance Check Report

For Years	**2024 - 2024**
Plan Year	**2024**
Reported For	**Phillips Plating-Lund 9-3 1yr 3 fields**
Printed	**2021-10-18**
Plan Completion/Update Date	**2020-09-29**
SnapPlus Version 20.4 built on 2021-06-03	
C:\SnapPlus2\MySnapPlusData\Lund\Lund NO F-12\PP Lund 9-3 1 yr No F-12.snapDb	

Prepared for:
Phillips Plating-Lund 9-3 1yr 3 fields
attn:Anders Lund

This farm uses both PI and Soil Test P for P2O5 590 Compliance

Rotational Restriction Problems

No Rotational Problems found

Soil Test Problems

Field Name	Soil Test Date	Too Few Soil Samples	Soil Test Too Old
F13	2019-09-23		X
F15	2019-09-23		X
F16	2019-09-23		X

Soil Test Problems Legend	
Too Few Soil Samples	Less than one sample per five acres.
Soil Test Data Too Old	Soil test is greater than 4 years old

Application Restriction Problems

No Application Restriction Problems found

NM3: Field Data and 590 Assessment Plan

Reported For	Phillips Plating-Lund 9-3 3 fields 8yr
Printed	2021-09-20
Plan Completion/Update Date	2020-09-29
SnapPlus Version 20.4 built on 2021-06-03	
C:\SnapPlus2\MySnapPlusData\Lund\Lund NO F-12\PP Lund 9-3 8 yr No f-12.snapDb	

Prepared for:
Phillips Plating-Lund 9-3 3 fields 8yr
attn:Anders Lund

Field Data: 14 Total Acres Reported.

Field Name	SubFarm	FSA Trct	FSA Fld	Acres	County	Critical Soil Series & Symbol	F. Slp %	F.Slp Len ft	Below Field Slope To Water %	Dist.To Water ft	Contour/ Filters	Irrig	Tiled	Rotation	Tillage	Report Period	Field "T" t/ac	Rot Avg Soil Loss t/ac	SCI	Rot Avg PI	Soil Test P ppm	Rot P2O5 Bal lb/ac	P2O5 Bal Target lb/ac
F13	Lund			2.1	Price	FREEON 457C	8	150	6.1 - 12	0 - 300	No / No	No	No	Csl-Csl-AGs-AG-AG-GH-GH-GH	SP-SP-SP-None-None-None-None-None	2012-2019	**4**	**2.4**	**0.8**	**NA**	16	384	-
F15	Lund			7.2	Price	FREEON 457C	8	150	2.1 - 6	301 - 1000	No / No	No	No	AG-GH-GH-Csl-AGs-AG-AG-GH	None-None-None-SP-SP-None-None-None	2012-2019	**4**	**1**	**1.0**	**NA**	18	-91	-
F16	Lund			4.8	Price	FREEON 457B	3	200	0 - 2	301 - 1000	No / No	No	No	AG-AG-GH-GH-GH-GH-Csl-Csl	None-None-None-None-None-None-SP-SP	2012-2019	**4**	**0.6**	**1.0**	**NA**	30	172	-

Crop Abbreviations

Abbreviation	Crop
AG	Alfalfa/Grass

Tillage Abbreviations

Abbreviation	Tillage
None	None

AGs	Alfalfa/Grass Seeding Spring
Csl	Corn silage
GH	Grass hay

SP	Spring MB Plow

NM3: Field Data and 590 Assessment Plan

Reported For	Phillips Plating-Lund 9-3 3 fields 5yr
Printed	2021-10-14
Plan Completion/Update Date	2020-09-29
SnapPlus Version 20.4 built on 2021-06-03	
C:\SnapPlus2\MySnapPlusData\Lund\Lund NO F-12\PP Lund 9-3 5 yr No F-12.snapDb	

Prepared for:
Phillips Plating-Lund 9-3 3 fields 5yr
attn:Anders Lund

Field Data: 14 Total Acres Reported.

Field Name	SubFarm	FSA Trct	FSA Fld	Acres	County	Critical Soil Series & Symbol	F. Slp %	F.Slp Len ft	Below Field Slope To Water %	Dist.To Water ft	Contour/ Filters	Irrig	Tiled	Rotation	Tillage	Report Period	Field "T" t/ac	Rot Avg Soil Loss t/ac	SCI	Rot Avg PI	Soil Test P ppm	Rot P2O5 Bal lb/ac	P2O5 Bal Target lb/ac
F13	Lund			2.1	Price	FREEON 457C	8	150	6.1 - 12	0 - 300	No / No	No	No	GH-GH-GH-GH-GH	None-None-None-None-None	2024-2028	**4**	**0**	**1.5**	**0**	16	-5	-
F15	Lund			7.2	Price	FREEON 457C	8	150	2.1 - 6	301 - 1000	No / No	No	No	GH-GH-GH-GH-GH	None-None-None-None-None	2024-2028	**4**	**0**	**1.5**	**0**	18	-5	-
F16	Lund			4.8	Price	FREEON 457B	3	200	0 - 2	301 - 1000	No / No	No	No	GH-GH-GH-GH-GH	None-None-None-None-None	2024-2028	**4**	**0**	**1.5**	**0**	30	-200	-

Crop Abbreviations

Abbreviation	Crop
GH	Grass hay

Tillage Abbreviations

Abbreviation	Tillage
None	None

Wisconsin Department of Agriculture, Trade and Consumer Protection
Division of Agricultural Resource Management
Bureau of Land and Water Resources
PO Box 8911, Madison WI 53708-8911, Phone: 608-224-4605

Use this form to check nutrient management (NM) plans for compliance with the WI NRCS 2015-590 Standard.

Nutrient Management Checklist

Wis. Stat. §92.05(3) (k), Wis. Admin. Code §ATCP50.04(3) and Ch. 51

COUNTY **Price**	DATE PLAN SUBMITTED **10/14/2021**	GROWING SEASON YEAR PLAN IS WRITTEN FOR **2019** (from harvest to harvest)
TOWNSHIP: (T. N.) RANGE: (R. E., W).		CHECK ONE: Initial Plan or Updated Plan

NAME OF FARM OPERATOR RECEIVING NM PLAN	FARM NAME (OPTIONAL)	BUSINESS PHONE
Anders Lund	**Phillips Plating-Lund 9-3 3 fields 8yr**	

STREET ADDRESS	CITY	STATE	ZIP
		WI	

REASON THE PLAN WAS DEVELOPED:	CROPLAND ACRES (OWNED & RENTED)
	14

RENTED FARM(S) LANDOWNER NAME(S) AND ACREAGE: add sheet(s) if needed

WAS THE PLAN WRITTEN IN SNAPPLUS? **YES** If yes, which software version, if known? **20.4**

CHECK PLANNER'S QUALIFICATION:
(1. NAICC-CPCC, 2. ASA-CCA, 3. SSSA-Soil Scientist, 4. DATCP approved training course, 5. Other approved by DATCP)

NAME OF QUALIFIED NUTRIENT MANAGEMENT PLANNER	BUSINESS PHONE

STREET ADDRESS	CITY	STATE	ZIP

Use header sections to add comments. Mark NA in the shaded sections if no manure is applied.

1. Does the plan include the following nutrient application requirements to protect surface and groundwater?

This section applies to fields and pastures. If no manure is applied, check NA for 1.c., 1.h., 1.i., 1.n., 1.o., 1.q., 1.s.	Yes	No	NA
a. Determine field nutrient levels from soil samples analyzed by a DATCP **certified laboratory**.	X		
b. For fields or pastures with mechanical nutrient applications, determine field nutrient levels from **soil samples** collected within the last **4 years** according to 590 Standard (590) and UWEX Pub. A2809, *Nutrient Application Guidelines for Field, Vegetable, and Fruit Crops in Wisconsin* (A2809) typically collecting **1 sample per 5 acres** of 10 cores. Soil tests are not required on **pastures** that do not receive mechanical applications of nutrients if either of the following applies: 1. The pasture average stocking rate is one animal unit per acre or less at all times during the grazing season. 2. The pasture is winter grazed or stocked at an average stocking rate of more than one animal unit per acre during the grazing season, and a nutrient management plan for the pasture complies with 590 using an assumed soil test phosphorus level of 150 PPM and organic matter content of 6%.	X		
c. For **livestock siting permit approval**, collect and analyze soil samples meeting the requirements above in 1. b., excluding pastures, within 12 months of approval and revise the nutrient management plan accordingly. Until then, either option below maybe used: 1. Assume soil test phosphorus levels are greater than 100 ppm soil test P, OR 2. Use preliminary estimates analyzed by a certified DATCP laboratory with soil samples representing > 5 ac/sample.			X
d. **Identify all fields'** name, boundary, acres, and location.	X		
e. Use the field's previous year's legume credit and/or applications, predominant soil series, and realistic yield goals to determine the crop's nutrient **application rates consistent with A2809 for ALL forms of N, P, and K.**		X	
f. Make no **winter applications of N and P** fertilizer, except on grass pastures and winter grains.	X		
g. Document method used to determine **application rates**. Nutrients shall not runoff during or immediately after application.	X		
h. Identify in the plan that **adequate acreage** is available for manure produced and/or applied.		X	
i. Apply a single phosphorus (P) assessment using either the **P Index** or **soil test P** management strategy to all fields within a tract when fields receive manure or organic by-products during the crop rotation.		X	
j. Use **complete crop rotations** and the field's **critical soil** series to determine that sheet and rill erosion estimates will not exceed **tolerable soil loss** (T) rates on fields that receive nutrients.	X		
k. Use contours; reduce tillage; adjust the crop rotation; or implement other practices to **prevent ephemeral erosion**; and maintain perennial vegetative cover to **prevent reoccurring gullies** in areas of concentrated flow.			
l. Make no nutrient applications within 8' of **irrigation** wells or where **vegetation is not removed**.			
m. Make no nutrient applications within **50' of all direct conduits to groundwater**, unless directly deposited by gleaning/pasturing animals or applied as starter fertilizer to corn.			

	Yes	No	NA
n. Make no **untreated manure applications** to areas within 1000' of a **community potable water well** or within 100' of a **non-community potable water well** (ex. church, school, restaurant) unless manure is treated to substantially eliminate pathogens.			
o. Make no manure applications to areas **locally delineated** by the Land Conservation Committee or in a conservation plan as areas contributing runoff to direct conduits to groundwater unless manure is substantially buried within 24 hours of application.			X
p. Make no applications of **late summer or fall commercial N fertilizer** to the following areas UNLESS needed for establishment of fall seeded crops OR to meet A2809 with a blended commercial fertilizer. Commercial fertilizer N applications shall not exceed 36 lbs. N/acre on: • Sites vulnerable to N leaching **PRW Soils** (P=high permeability, R= bedrock < 20 inches, or W= wet < 12 inches to apparent water table); • Soils with depths of 5 feet or less to bedrock; • Area within 1,000 feet of a community potable water well. On **P soils, when commercial N is applied** for full season crops in **spring and summer**, follow A2809 and apply one of the following: 1. A split or delayed N application to apply a majority of crop N requirement after crop establishment. 2. Use a nitrification inhibitor with ammonium forms of N. 3. Use slow and controlled release fertilizers for a majority of the crop N requirement applied near the time of planting.	X		
q. Limit manure applications in late summer or fall using the lesser of A2809 or the following 590 rates on **PRW Soils.** Use ≤ 120 lbs. available N/acre on: **P and R soils** on *all crops, except annual crops*. Additionally, manure with ≤ 4% dry matter (DM) wait until after soil temp. < 50°F or Oct. 1, and use either a nitrification inhibitor OR surface apply and do not incorporate for at least 3 days. **W soils or combo. W soils** on *all crops.* Additionally, manure with ≤ 4% DM on *all crops* use at least one of the following: **1.** Use a nitrification inhibitor; **2.** Apply on an established cover crop, an overwintering annual, or perennial crop; **3.** Establish a cover crop within 14 days of application; **4.** Surface apply & don't incorporate for at least 3 days; **5.** Wait until after soil temp. < 50°F or Oct. 1. Use ≤ 90 lbs. available N/acre on: **P and R soils** on *annual crops* wait until after soil temp. < 50°F or Oct. 1. Additionally, manure with ≤ 4% DM use either a nitrification inhibitor OR surface apply and do not incorporate for at least 3 days. **W soils or combination W soils** receiving manure with ≤ 4% DM on *all crops*.	X		
r. Use at least one of the following practices on **non-frozen soils for all nutrient applications** within **Surface Water Quality Management Area (SWQMA)** = 1000' of lakes/ponds or 300' of rivers: **1.** Maintain > 30% cover after nutrient application; **2.** Effective incorporation within 72 hours of application; **3.** Establish crops prior to, at, or promptly following application; **4.** Install/maintain vegetative buffers or filter strips; **5.** Have at least 3 consecutive years no-till for applications to fields with < 30% residue (silage) and apply nutrients within 7 days of planting.		X	
s. Limit mechanical applications to **12,000 gals/acre of unincorporated liquid manure or organic by-products with 11% or less dry matter where subsurface drainage is present** OR **within SWQMA**. Wait a minimum of 7 days between sequential applications AND use one or more of the practice options on non-frozen soils listed in 1.r.1. through **1.r.5.**	X		

2. When frozen or snow-covered soils prevent effective incorporation, does the plan follow these requirements for winter applications of all mechanically applied manure or organic by-products? *This section doesn't apply to winter gleaning/pasturing meeting 590 N and P requirements.*

If no manure is applied, check NA for 2.a. through 2.g..	Yes	No	NA
a. Identify **manure quantities planned to be spread during the winter**, or the amount of manure generated in 14 days, whichever is greater. *For daily haul systems, assume 1/3 of the manure produced annually will need to be winter applied.*			
b. Identify **manure storage capacity** for each type applied and stacking capacity for manure ≥ 16% DM if permanent storage does not exist.			
c. Show on map and make no applications within the **SWQMA**.	X		
d. Show on map and make no surface applications of liquid manure during **February and March** where **Silurian dolomite** is within 60 inches of the soils surface OR where **DNR Well Compensation** funds provided replacement water supplies for wells contaminated with livestock manure.			X
e. Show on map and make no applications of manure within **300 feet** of **direct conduits to groundwater**.			
f. Do not exceed the P removal of the following growing season's crop when applying manure. Liquid manure applications are limited to **7,000 g/acre**. All winter manure applications are not to exceed **60 lbs. of P2O5/acre**.	X		
g. Make no applications of manure to fields with **concentrated flow channels** unless using two of the following: **1.** Contour buffer strips or contour strip cropping; **2.** Leave all crop residue and no fall tillage; **3.** Apply manure in intermittent strips on no more than 50% of field; **4.** Apply manure on no more than 25% of the field waiting a minimum of 14 days between applications; **5.** Reduce manure app. rate to 3,500 gal. or 30 lbs. P2O5, whichever is less; **6.** No manure application within 200 feet of all concentrated flow channels; **7.** Fall tillage is on the contour and slopes are lower than 6%. Make no applications to **slopes greater than 6%** (soil map units with C, D, E, and F slopes) unless the plan documents that no other accessible fields are available for winter spreading AND two of the options 2.g.**1.** through 2.g.**5.** are used.	X		

I certify that the plan represented by the answers on this checklist complies with Wisconsin's NRCS 2015-590 NM Standard or is otherwise noted.

Qualified NM planner signature — NAICC-*Certified Professional Crop Consultant*, ASA-*Certified Crop Adviser*, or SSSA-*Soil Scientist* — Date

Qualified NM farmer-planner or Authorized farm operator signature receiving and understanding the plan — Date

Signature if reviewed for quality assurance — Date

Wisconsin Department of Agriculture, Trade and Consumer Protection
Division of Agricultural Resource Management
Bureau of Land and Water Resources
PO Box 8911, Madison WI 53708-8911, Phone: 608-224-4605

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Nutrient Management Checklist

Wis. Stat. §92.05(3) (k), Wis. Admin. Code §ATCP50.04(3) and Ch. 51

COUNTY **Price**	DATE PLAN SUBMITTED **10/14/2021**	GROWING SEASON YEAR PLAN IS WRITTEN FOR **2024** (from harvest to harvest)
TOWNSHIP: (T. N.) RANGE: (R. E., W).		CHECK ONE: Initial Plan or Updated Plan

NAME OF FARM OPERATOR RECEIVING NM PLAN	FARM NAME (OPTIONAL)	BUSINESS PHONE
Anders Lund	**Phillips Plating-Lund 9-3 1yr 3 fields**	

STREET ADDRESS	CITY	STATE	ZIP
		WI	

REASON THE PLAN WAS DEVELOPED:	CROPLAND ACRES (OWNED & RENTED)
	14

RENTED FARM(S) LANDOWNER NAME(S) AND ACREAGE: add sheet(s) if needed

WAS THE PLAN WRITTEN IN SNAPPLUS? **YES** If yes, which software version, if known? **20.4**

CHECK PLANNER'S QUALIFICATION:
(1. NAICC-CPCC, 2. ASA-CCA, 3. SSSA-Soil Scientist, 4. DATCP approved training course, 5. Other approved by DATCP)

NAME OF QUALIFIED NUTRIENT MANAGEMENT PLANNER	BUSINESS PHONE

STREET ADDRESS	CITY	STATE	ZIP

Use header sections to add comments. Mark NA in the shaded sections if no manure is applied.

1. Does the plan include the following nutrient application requirements to protect surface and groundwater?

This section applies to fields and pastures. If no manure is applied, check NA for 1.c., 1.h., 1.i., 1.n., 1.o., 1.q., 1.s.	Yes	No	NA
a. Determine field nutrient levels from soil samples analyzed by a DATCP **certified laboratory**.	X		
b. For fields or pastures with mechanical nutrient applications, determine field nutrient levels from **soil samples** collected within the last **4 years** according to 590 Standard (590) and UWEX Pub. A2809, *Nutrient Application Guidelines for Field, Vegetable, and Fruit Crops in Wisconsin* (A2809) typically collecting **1 sample per 5 acres** of 10 cores. Soil tests are not required on **pastures** that do not receive mechanical applications of nutrients if either of the following applies: 1. The pasture average stocking rate is one animal unit per acre or less at all times during the grazing season. 2. The pasture is winter grazed or stocked at an average stocking rate of more than one animal unit per acre during the grazing season, and a nutrient management plan for the pasture complies with 590 using an assumed soil test phosphorus level of 150 PPM and organic matter content of 6%.		X	
c. For **livestock siting permit approval**, collect and analyze soil samples meeting the requirements above in 1. b., excluding pastures, within 12 months of approval and revise the nutrient management plan accordingly. Until then, either option below maybe used: 1. Assume soil test phosphorus levels are greater than 100 ppm soil test P, OR 2. Use preliminary estimates analyzed by a certified DATCP laboratory with soil samples representing > 5 ac/sample.			X
d. **Identify all fields'** name, boundary, acres, and location.	X		
e. Use the field's previous year's legume credit and/or applications, predominant soil series, and realistic yield goals to determine the crop's nutrient **application rates consistent with A2809 for ALL forms of N, P, and K.**	X		
f. Make no **winter applications of N and P** fertilizer, except on grass pastures and winter grains.	X		
g. Document method used to determine **application rates**. Nutrients shall not runoff during or immediately after application.	X		
h. Identify in the plan that **adequate acreage** is available for manure produced and/or applied.			X
i. Apply a single phosphorus (P) assessment using either the **P Index** or **soil test P** management strategy to all fields within a tract when fields receive manure or organic by-products during the crop rotation.			X
j. Use **complete crop rotations** and the field's **critical soil** series to determine that sheet and rill erosion estimates will not exceed **tolerable soil loss** (T) rates on fields that receive nutrients.	X		
k. Use contours; reduce tillage; adjust the crop rotation; or implement other practices to **prevent ephemeral erosion**; and maintain perennial vegetative cover to **prevent reoccurring gullies** in areas of concentrated flow.			
l. Make no nutrient applications within 8' of **irrigation** wells or where **vegetation is not removed**.			
m. Make no nutrient applications within **50' of all direct conduits to groundwater**, unless directly deposited by gleaning/pasturing animals or applied as starter fertilizer to corn.			

	Yes	No	NA
n. Make no **untreated manure applications** to areas within 1000' of a **community potable water well** or within 100' of a **non-community potable water well** (ex. church, school, restaurant) unless manure is treated to substantially eliminate pathogens.			X
o. Make no manure applications to areas **locally delineated** by the Land Conservation Committee or in a conservation plan as areas contributing runoff to direct conduits to groundwater unless manure is substantially buried within 24 hours of application.			X
p. Make no applications of **late summer or fall commercial N fertilizer** to the following areas UNLESS needed for establishment of fall seeded crops OR to meet A2809 with a blended commercial fertilizer. Commercial fertilizer N applications shall not exceed 36 lbs. N/acre on: • Sites vulnerable to N leaching **PRW Soils** (P=high permeability, R= bedrock < 20 inches, or W= wet < 12 inches to apparent water table); • Soils with depths of 5 feet or less to bedrock; • Area within 1,000 feet of a community potable water well. On **P soils, when commercial N is applied** for full season crops in **spring and summer**, follow A2809 and apply one of the following: 1. A split or delayed N application to apply a majority of crop N requirement after crop establishment. 2. Use a nitrification inhibitor with ammonium forms of N. 3. Use slow and controlled release fertilizers for a majority of the crop N requirement applied near the time of planting.	X		
q. Limit manure applications in late summer or fall using the lesser of A2809 or the following 590 rates on **PRW Soils.** Use ≤ 120 lbs. available N/acre on: **P and R soils** on *all crops, except annual crops*. Additionally, manure with ≤ 4% dry matter (DM) wait until after soil temp. < 50°F or Oct. 1, and use either a nitrification inhibitor OR surface apply and do not incorporate for at least 3 days. **W soils or combo. W soils** on *all crops.* Additionally, manure with ≤ 4% DM on *all crops* use at least one of the following: **1.** Use a nitrification inhibitor; **2.** Apply on an established cover crop, an overwintering annual, or perennial crop; **3.** Establish a cover crop within 14 days of application; **4.** Surface apply & don't incorporate for at least 3 days; **5.** Wait until after soil temp. < 50°F or Oct. 1. Use ≤ 90 lbs. available N/acre on: **P and R soils** on *annual crops* wait until after soil temp. < 50°F or Oct. 1. Additionally, manure with ≤ 4% DM use either a nitrification inhibitor OR surface apply and do not incorporate for at least 3 days. **W soils or combination W soils** receiving manure with ≤ 4% DM on *all crops*.			X
r. Use at least one of the following practices on **non-frozen soils for all nutrient applications** within **Surface Water Quality Management Area (SWQMA)** = 1000' of lakes/ponds or 300' of rivers: **1.** Maintain > 30% cover after nutrient application; **2.** Effective incorporation within 72 hours of application; **3.** Establish crops prior to, at, or promptly following application; **4.** Install/maintain vegetative buffers or filter strips; **5.** Have at least 3 consecutive years no-till for applications to fields with < 30% residue (silage) and apply nutrients within 7 days of planting.	X		
s. Limit mechanical applications to **12,000 gals/acre of unincorporated liquid manure or organic by-products with 11% or less dry matter where subsurface drainage is present** OR **within SWQMA**. Wait a minimum of 7 days between sequential applications AND use one or more of the practice options on non-frozen soils listed in 1.r.1. through **1.r.5.**			X

2. When frozen or snow-covered soils prevent effective incorporation, does the plan follow these requirements for winter applications of all mechanically applied manure or organic by-products? *This section doesn't apply to winter gleaning/pasturing meeting 590 N and P requirements.*

If no manure is applied, check NA for 2.a. through 2.g..	Yes	No	NA
a. Identify **manure quantities planned to be spread during the winter**, or the amount of manure generated in 14 days, whichever is greater. *For daily haul systems, assume 1/3 of the manure produced annually will need to be winter applied.*			X
b. Identify **manure storage capacity** for each type applied and stacking capacity for manure ≥ 16% DM if permanent storage does not exist.			X
c. Show on map and make no applications within the **SWQMA**.			X
d. Show on map and make no surface applications of liquid manure during **February and March** where **Silurian dolomite** is within 60 inches of the soils surface OR where **DNR Well Compensation** funds provided replacement water supplies for wells contaminated with livestock manure.			X
e. Show on map and make no applications of manure within **300 feet** of **direct conduits to groundwater**.			X
f. Do not exceed the P removal of the following growing season's crop when applying manure. Liquid manure applications are limited to **7,000 g/acre**. All winter manure applications are not to exceed **60 lbs. of P2O5/acre**.			X
g. Make no applications of manure to fields with **concentrated flow channels** unless using two of the following: **1.** Contour buffer strips or contour strip cropping; **2.** Leave all crop residue and no fall tillage; **3.** Apply manure in intermittent strips on no more than 50% of field; **4.** Apply manure on no more than 25% of the field waiting a minimum of 14 days between applications; **5.** Reduce manure app. rate to 3,500 gal. or 30 lbs. P2O5, whichever is less; **6.** No manure application within 200 feet of all concentrated flow channels; **7.** Fall tillage is on the contour and slopes are lower than 6%. Make no applications to **slopes greater than 6%** (soil map units with C, D, E, and F slopes) unless the plan documents that no other accessible fields are available for winter spreading AND two of the options 2.g.**1.** through 2.g.**5.** are used.			X

I certify that the plan represented by the answers on this checklist complies with Wisconsin's NRCS 2015-590 NM Standard or is otherwise noted.

Qualified NM planner signature — NAICC-*Certified Professional Crop Consultant*, ASA-*Certified Crop Adviser*, or SSSA-*Soil Scientist* — Date

Qualified NM farmer-planner or Authorized farm operator signature receiving and understanding the plan — Date

Signature if reviewed for quality assurance — Date

FM6: Soil Test Report

Reported For	Phillips Plating-Lund 9-3 3 fields 8yr
Printed	2021-09-20
Plan Completion/Update Date	2020-09-29
SnapPlus Version 20.4 built on 2021-06-03	
C:\SnapPlus2\MySnapPlusData\Lund\Lund NO F-12\PP Lund 9-3 8 yr No f-12.snapDb	

Prepared for:
Phillips Plating-Lund 9-3 3 fields 8yr
attn:Anders Lund

			Predominant					Samples				in ppm			
Field Name	Subfarm	Acres	Soil Map Symbol	Soil Name	Soil Test Date	Soil Test Lab	Lab Number	Rec. #	Actual #	pH	OM%	P	K	S	CEC
F13	Lund	2.1	457B	FREEON	2019-09-23	Dairyland Labs	8S3976	1	1	5.9	4.1	16	78	0	0
F15	Lund	7.2	457B	FREEON	2019-09-23	Dairyland Labs	8S3976	1	2	5.9	3.9	18	34	0	0
F16	Lund	4.8	3456A	MAGNOR	2019-09-23	Dairyland Labs	8S3976	1	1	5.7	3.9	30	81	0	0

Crop Year Soil Test Needed

Field Name	Soil Test Date	2019	2020	2021	2022	2023	2024	2025
F13	2019-09-23						X	
F15	2019-09-23						X	
F16	2019-09-23						X	

NM1: Narrative and Crops Report

Starting Year	**2012**
Reported For	**Phillips Plating- Albert Norek 8yr**
Printed	**2021-09-20**
Plan Completion/Update Date:	**2020-09-29**
SnapPlus Version 20.4 built on 2021-06-03	
C:\SnapPlus2\MySnapPlusData\Albert Norek\PP Norek Albert 9-3 8 yr.snapDb	

Prepared for:
Phillips Plating- Albert Norek 8yr
attn:Albert Norek

Farm has 7 fields totalling 26 cropped acres.
Farm Narrative: Neil Foytik had a dairy operation with a milking herd of 35 lactating (20 X 1,400 lbs + 15 X 1,200 lbs) and seven dry cows (4X 1,400 lbs + 3 X 1,200 lbs) and a heifer herd of eight 750 lb heifers, nine 1,000 lb heifers, six 150 lbs calves, six 250 lb calves and one 1,400 lbs bull. There was no manure storage, so manure from both herds indoors 24 hrs/day in winter was hauled daily (from Nov 15 to May 15) to fields planned for corn planting in the following spring. Overnight (½ day milking to milking) manure from the milking herd was hauled every other day or three times per week to the oldest, grassiest hayfields (May 15 to Nov 15). Six months per year outdoor manure from the dairy herd was pasture-delivered to each of the five rotation-grazed pastures. Six months per year outdoor manure from the heifer herd was pasture-delivered to FP-12 and FP-12 lot.

An eight-year, target crop rotation started with one or two years of corn followed by alfalfa (red clover on Norek) that converted to grass for end the rotation. The corn and alfalfa planting was preceded by spring mold board plowing and spring disking. The target 8-yr rotation was often varied due to crop yield and weather variability. The average crop year included 15 acres of corn silage among the Foytik, Norek, and Lund properties. Winter manure was hauled to the to-be-corn fields regardless of ownership while indoor summer manure production was spread only on the Foytik and Lund grassy fields.

Corn fields received commercial fertilizer in addition to the manure. Alfalfa seedings received commercial fertilizer. No other fields or pastures received commercial fertilizer.

All the cattle were sold in the summer of 2020, the corn fields were planted to a hay pasture mixture, pastures, alfalfa fields, and the grassy hay fields were not tilled or replanted. Barnyards and feedlot/exercise areas were allowed to vegetate naturally.

NE SW S23 37N 1W & NW SW S23 37N 1W
Albert Norek Farm was rented by Neil Foytik for dairy production. Now all fields have been seeded to permanent hayland with nutrient additions limited by this Nutrient Management Plan. No manure or whole field tillage is allowed.

Annual Farm Notes:

No Annual Farm Notes

Spreader Calibration Methods: Amount applied / Acres

Narrative and Crops:

Field Name	Field Acres	2012	2013	2014	2015	2016	2017	2018	2019
F-18	4.6	Alfalfa/Grass None 3.6-4.5 ton/acre	Alfalfa/Grass None 3.6-4.5 ton/acre	Grass hay None 3.1-4 ton/acre	Grass hay None 3.1-4 ton/acre	Grass hay None 3.1-4 ton/acre	Corn silage Spring MB Plow 15.1-20 ton/acre	Alfalfa/Grass Seeding Spring Spring MB Plow 2.6-3.5 ton/acre	Grass hay None 2-3 ton/acre
F-19	3.3	Alfalfa/Grass None 3.6-4.5 ton/acre	Alfalfa/Grass None 2.6-3.5 ton/acre	Grass hay None 3.1-4 ton/acre	Grass hay None 3.1-4 ton/acre	Corn silage Spring MB Plow 15.1-20 ton/acre	Alfalfa/Grass Seeding Spring Spring MB Plow 2.6-3.5 ton/acre	Alfalfa/Grass None 3.6-4.5 ton/acre	Grass hay None 3.1-4 ton/acre
F-20W	0.7	Grass hay None 2.0-3 ton/acre	Grass hay None 2-3 ton/acre	Corn silage Spring MB Plow 15.1-20 ton/acre	Red Clover seeding Spring Spring MB Plow 2.6-3.5 ton/acre	Red Clover None 2.6-3.5 ton/acre	Red Clover None 2.6-3.5 ton/acre	Grass hay None 3.1-4 ton/acre	Grass hay None 3.1-4 ton/acre
F-21	6	Alfalfa/Grass None 3.6-4.5 ton/acre	Alfalfa/Grass None 3.6-4.5 ton/acre	Grass hay None 2-3 ton/acre	Grass hay None 2-3 ton/acre	Grass hay None 2-3 ton/acre	Corn silage Spring MB Plow 15.1-20 ton/acre	Alfalfa/Grass Seeding Spring Spring MB Plow 1.0-2.5 ton/acre	Grass hay None 2-3 ton/acre
F-22	1.3	Alfalfa/Grass None 2.6-3.5 ton/acre	Alfalfa/Grass None 3.6-4.5 ton/acre	Alfalfa/Grass None 3.6-4.5 ton/acre	Alfalfa/Grass None 3.6-4.5 ton/acre	Alfalfa/Grass None 3.6-4.5 ton/acre	Grass hay None 2-3 ton/acre	Grass hay None 2-3 ton/acre	Grass hay None 3.1-4 ton/acre
F-23	3.9	Alfalfa/Grass Seeding Spring Spring MB Plow 1.0-2.5 ton/acre	Corn silage Spring MB Plow 15.1-20 ton/acre	Red Clover seeding Spring Spring MB Plow 1-2.5 ton/acre	Red Clover None 2.6-3.5 ton/acre	Red Clover None 2.6-3.5 ton/acre	Red Clover None 2.6-3.5 ton/acre	Red Clover (grassy, yr 3+) None 2.6-3.5 ton/acre	Grass hay None 2-3 ton/acre
F-24	6.2	Alfalfa/Grass None 3.6-4.5 ton/acre	Alfalfa/Grass None 3.6-4.5 ton/acre	Alfalfa/Grass None 3.6-4.5 ton/acre	Grass hay None 0.5-1.9 ton/acre	Grass hay None 0.5-1.9 ton/acre	Corn silage Spring MB Plow 15.1-20 ton/acre	Corn silage Spring MB Plow 15.1-20 ton/acre	Red Clover seeding Spring Spring MB Plow 1-2.5 ton/acre

Summary by Crop:
NOTE: Yields calculated using the midpoint of the SnapPlus yield goal range for each crop.

Crops Grouped By Category		2012	2013	2014	2015	2016	2017	2018	2019
Alfalfa/Grass	Acres	21	21	8	1	1		3	
	ton	85	85	32	4	4		12	

Crops Grouped By Category		2012	2013	2014	2015	2016	2017	2018	2019
Alfalfa/Grass Seeding Spring	Acres ton	4 7					3 9	11 34	
Corn silage	Acres ton		4 70	1 18		3 53	17 298	6 105	
Grass hay	Acres ton	1 3	1 3	14 50	20 71	17 60	1 3	2 7	20 50
Red Clover	Acres ton				4 12	5 15	5 15		
Red Clover seeding Spring	Acres ton			4 7	1 3				6 11
Red Clover (grassy, yr 3+)	Acres ton							4 12	

NM1: Narrative and Crops Report

Starting Year	**2024**
Reported For	**Phillips Plating- Albert Norek 1yr**
Printed	**2021-09-20**
Plan Completion/Update Date:	**2020-09-29**
SnapPlus Version 20.4 built on 2021-06-03	
C:\SnapPlus2\MySnapPlusData\Albert Norek\PP Norek Albert 9-3 1 yr.snapDb	

Prepared for:
Phillips Plating- Albert Norek 1yr
attn:Albert Norek

Farm has 7 fields totalling 26 cropped acres.
Farm Narrative: Neil Foytik had a dairy operation with a milking herd of 35 lactating (20 X 1,400 lbs + 15 X 1,200 lbs) and seven dry cows (4X 1,400 lbs + 3 X 1,200 lbs) and a heifer herd of eight 750 lb heifers, nine 1,000 lb heifers, six 150 lbs calves, six 250 lb calves and one 1,400 lbs bull. There was no manure storage, so manure from both herds indoors 24 hrs/day in winter was hauled daily (from Nov 15 to May 15) to fields planned for corn planting in the following spring. Overnight (½ day milking to milking) manure from the milking herd was hauled every other day or three times per week to the oldest, grassiest hayfields (May 15 to Nov 15). Six months per year outdoor manure from the dairy herd was pasture-delivered to each of the five rotation-grazed pastures. Six months per year outdoor manure from the heifer herd was pasture-delivered to FP-12 and FP-12 lot.

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NE SW S23 37N 1W & NW SW S23 37N 1W
Albert Norek Farm was rented by Neil Foytik for dairy production. Now all fields have been seeded to permanent hayland with nutrient additions limited by this Nutrient Management Plan. No manure or whole field tillage is allowed.

Annual Farm Notes:

No Annual Farm Notes

Spreader Calibration Methods: Amount applied / Acres

Narrative and Crops:

Field Name	Field Acres	2024	2025	2026	2027	2028
F-18	4.6	Grass hay None 2-3 ton/acre	Grass hay None 2-3 ton/acre	Grass hay None 2-3 ton/acre	Grass hay None 2-3 ton/acre	Grass hay None 2-3 ton/acre
F-19	3.3	Grass hay None 2-3 ton/acre	Grass hay None 2-3 ton/acre	Grass hay None 2-3 ton/acre	Grass hay None 2-3 ton/acre	Grass hay None 2-3 ton/acre
F-20W	0.7	Grass hay None 2-3 ton/acre	Grass hay None 2-3 ton/acre	Grass hay None 2-3 ton/acre	Grass hay None 2-3 ton/acre	Grass hay None 2-3 ton/acre
F-21	6	Grass hay None 2-3 ton/acre	Grass hay None 2-3 ton/acre	Grass hay None 2-3 ton/acre	Grass hay None 2-3 ton/acre	Grass hay None 2-3 ton/acre
F-22	1.3	Grass hay None 2-3 ton/acre	Grass hay None 2-3 ton/acre	Grass hay None 2-3 ton/acre	Grass hay None 2-3 ton/acre	Grass hay None 2-3 ton/acre
F-23	3.9	Grass hay None 2-3 ton/acre	Grass hay None 2-3 ton/acre	Grass hay None 2-3 ton/acre	Grass hay None 2-3 ton/acre	Grass hay None 2-3 ton/acre
F-24	6.2	Grass hay None 2-3 ton/acre	Grass hay None 2-3 ton/acre	Grass hay None 2-3 ton/acre	Grass hay None 2-3 ton/acre	Grass hay None 2-3 ton/acre

Summary by Crop:

NOTE: Yields calculated using the midpoint of the SnapPlus yield goal range for each crop.

Crops Grouped By Category		2024	2025	2026	2027	2028
Grass hay	Acres	26	26	26	26	26
	ton	65	65	65	65	65

NM2: Application Restriction Compliance Check Report

For Years	**2012 - 2019**
Plan Year	**2019**
Reported For	**Phillips Plating- Albert Norek 8yr**
Printed	**2021-10-14**
Plan Completion/Update Date	**2020-09-29**
SnapPlus Version 20.4 built on 2021-06-03	
C:\SnapPlus2\MySnapPlusData\Albert Norek\PP Norek Albert 9-3 8 yr.snapDb	

Prepared for:
Phillips Plating- Albert Norek 8yr
attn:Albert Norek

This farm uses both PI and Soil Test P for P2O5 590 Compliance

Rotational Restriction Problems

No Rotational Problems found

Soil Test Problems

No Soil Test Problems

Soil Test Problems Legend	
Too Few Soil Samples	Less than one sample per five acres.
Soil Test Data Too Old	Soil test is greater than 4 years old

Application Restriction Problems

Field Name	Year	Problem	Explanation
F-18	2017	Winter direct conduit to groundwater 200 ft - No manure (except grazing)..This field is within 200 ft of a: well.	
F-18	2017	No winter spreading on slopes steeper than 12% or on uncontoured slopes between 9 and 12%.	
F-19	2016	Winter manure P2O5 applications exceed 60 pounds per acre by 2 lbs.	
F-23	2013	Winter manure P2O5 applications exceed 60 pounds per acre by 8 lbs.	
F-24	2017	This plan uses purchased fertilizer to apply more P2O5 than is recommended for the crop rotation on this field. The P2O5 soil test interpretation is High for this field. Reduce or eliminate P2O5 fertilizer on this field.	
F-24	2018	This plan uses purchased fertilizer to apply more P2O5 than is recommended for the crop rotation on this field. The P2O5 soil test interpretation is High for this field. Reduce or eliminate P2O5 fertilizer on this field.	

NM2: Application Restriction Compliance Check Report

For Years	**2024 - 2028**
Plan Year	**2024**
Reported For	**Phillips Plating- Albert Norek 1yr**
Printed	**2021-10-14**
Plan Completion/Update Date	**2020-09-29**
SnapPlus Version 20.4 built on 2021-06-03	
C:\SnapPlus2\MySnapPlusData\Albert Norek\PP Norek Albert 9-3 1 yr.snapDb	

Prepared for:
Phillips Plating- Albert Norek 1yr
attn:Albert Norek

This farm uses both PI and Soil Test P for P2O5 590 Compliance

Rotational Restriction Problems

No Rotational Problems found

Soil Test Problems

Field Name	Soil Test Date	Too Few Soil Samples	Soil Test Too Old
F-18	2019-09-26		X
F-19	2019-09-26		X
F-20W	2019-09-26		X
F-21	2019-09-26		X
F-22	2019-09-26		X

Field Name	Soil Test Date	Too Few Soil Samples	Soil Test Too Old
F-23	2019-09-26		X
F-24	2019-09-26		X

Soil Test Problems Legend	
Too Few Soil Samples	Less than one sample per five acres.
Soil Test Data Too Old	Soil test is greater than 4 years old

Application Restriction Problems

No Application Restriction Problems found

NM3: Field Data and 590 Assessment Plan

Reported For	Phillips Plating- Albert Norek 8yr
Printed	2021-09-20
Plan Completion/Update Date	2020-09-29
SnapPlus Version 20.4 built on 2021-06-03	
C:\SnapPlus2\MySnapPlusData\Albert Norek\PP Norek Albert 9-3 8 yr.snapDb	

Prepared for:
Phillips Plating- Albert Norek 8yr
attn:Albert Norek

Field Data: 26 Total Acres Reported.

Field Name	SubFarm	FSA Trct	FSA Fld	Acres	County	Critical Soil Series & Symbol	F. Slp %	F.Slp Len ft	Below Field Slope To Water %	Dist.To Water ft	Contour/ Filters	Irrig	Tiled	Rotation	Tillage	Report Period	Field "T" t/ac	Rot Avg Soil Loss t/ac	SCI	Rot Avg PI	Soil Test P ppm	Rot P2O5 Bal lb/ac	P2O5 Bal Target lb/ac
F-18	A. Norek			4.6	Price	BILLYBOY 948A	2	250	0 - 2	1001 - 5000	No / No	No	No	AG-AG-GH-GH-GH-Csl-AGs-GH	None-None-None-None-None-SP-SP-None	2012-2019	**3**	**0.2**	**1.1**	**1**	17	-190	-
F-19	A. Norek			3.3	Price	WHISKLAKE 701A	2	200	0 - 2	301 - 1000	No / No	No	No	AG-AG-GH-GH-Csl-AGs-AG-GH	None-None-None-None-SP-SP-None-None	2012-2019	**3**	**0.3**	**1.0**	**1**	13	-166	-
F-20W	A. Norek			0.7	Price	BILLYBOY 948A	2	250	0 - 2	301 - 1000	No / No	No	No	GH-GH-Csl-RCss-RC-RC-GH-GH	None-None-SP-SP-None-None-None-None	2012-2019	**3**	**0.3**	**1.0**	**1**	20	-193	-
F-21	A. Norek			6	Price	BILLYBOY 948A	2	250	0 - 2	301 - 1000	No / No	No	No	AG-AG-GH-GH-GH-Csl-AGs-GH	None-None-None-None-None-SP-SP-None	2012-2019	**3**	**0.2**	**1.1**	**1**	12	-130	-

Field Name	SubFarm	FSA Trct	FSA Fld	Acres	County	Critical Soil Series & Symbol	F. Slp %	F.Slp Len ft	Below Field Slope To Water %	Dist.To Water ft	Contour/ Filters	Irrig	Tiled	Rotation	Tillage	Report Period	Field "T" t/ac	Rot Avg Soil Loss t/ac	SCI	Rot Avg PI	Soil Test P ppm	Rot P2O5 Bal lb/ac	P2O5 Bal Target lb/ac
F-22	A. Norek			1.3	Price	BILLYBOY 948A	2	250	0 - 2	301 - 1000	No / No	No	No	AG-AG-AG-AG-AG-GH-GH-GH	None-None-None-None-None-None-None-None	2012-2019	**3**	**0**	**1.3**	**0**	13	-375	-
F-23	A. Norek			3.9	Price	BILLYBOY 948A	2	250	0 - 2	301 - 1000	No / No	No	No	AGs-Csl-RCss-RC-RC-RC-RCg-GH	SP-SP-SP-None-None-None-None-None	2012-2019	**3**	**0.6**	**0.7**	**2**	15	-61	-
F-24	A. Norek			6.2	Price	BILLYBOY 948A	2	250	0 - 2	0 - 300	No / No	No	No	AG-AG-AG-GH-GH-Csl-Csl-RCss	None-None-None-None-None-None-SP-SP-SP	2012-2019	**3**	**0.6**	**0.8**	**3**	34	62	-

Crop Abbreviations

Abbreviation	Crop
AG	Alfalfa/Grass
AGs	Alfalfa/Grass Seeding Spring
Csl	Corn silage
GH	Grass hay
RC	Red Clover
RCg	Red Clover (grassy, yr 3+)
RCss	Red Clover seeding Spring

Tillage Abbreviations

Abbreviation	Tillage
None	None
SP	Spring MB Plow

NM3: Field Data and 590 Assessment Plan

Reported For	Phillips Plating- Albert Norek 5yr
Printed	2021-10-14
Plan Completion/Update Date	2020-09-29
SnapPlus Version 20.4 built on 2021-06-03	
C:\SnapPlus2\MySnapPlusData\Albert Norek\PP Norek Albert 9-3 5 yr.snapDb	

Prepared for:
Phillips Plating- Albert Norek 5yr
attn:Albert Norek

Field Data: 26 Total Acres Reported.

Field Name	SubFarm	FSA Trct	FSA Fld	Acres	County	Critical Soil Series & Symbol	F. Slp %	F.Slp Len ft	Below Field Slope To Water %	Dist.To Water ft	Contour/ Filters	Irrig	Tiled	Rotation	Tillage	Report Period	Field "T" t/ac	Rot Avg Soil Loss t/ac	SCI	Rot Avg PI	Soil Test P ppm	Rot P2O5 Bal lb/ac	P2O5 Bal Target lb/ac
F-18	A. Norek			4.6	Price	BILLYBOY 948A	2	250	0 - 2	1001 - 5000	No / No	No	No	GH-GH-GH-GH-GH	None-None-None-None-None	2024-2028	3	0	1.5	0	17	-5	-
F-19	A. Norek			3.3	Price	WHISKLAKE 701A	2	200	0 - 2	301 - 1000	No / No	No	No	GH-GH-GH-GH-GH	None-None-None-None-None	2024-2028	3	0	1.5	0	13	140	-
F-20W	A. Norek			0.7	Price	BILLYBOY 948A	2	250	0 - 2	301 - 1000	No / No	No	No	GH-GH-GH-GH-GH	None-None-None-None-None	2024-2028	3	0	1.5	0	20	-5	-
F-21	A. Norek			6	Price	BILLYBOY 948A	2	250	0 - 2	301 - 1000	No / No	No	No	GH-GH-GH-GH-GH	None-None-None-None-None	2024-2028	3	0	1.5	0	12	140	-
F-22	A. Norek			1.3	Price	BILLYBOY 948A	2	250	0 - 2	301 - 1000	No / No	No	No	GH-GH-GH-GH-GH	None-None-None-None-None	2024-2028	3	0	1.5	0	13	140	-

Field Name	SubFarm	FSA Trct	FSA Fld	Acres	County	Critical Soil Series & Symbol	F. Slp %	F.Slp Len ft	Below Field Slope To Water %	Dist.To Water ft	Contour/ Filters	Irrig	Tiled	Rotation	Tillage	Report Period	Field "T" t/ac	Rot Avg Soil Loss t/ac	SCI	Rot Avg PI	Soil Test P ppm	Rot P2O5 Bal lb/ac	P2O5 Bal Target lb/ac
F-23	A. Norek			3.9	Price	BILLYBOY 948A	2	250	0 - 2	301 - 1000	No / No	No	No	GH-GH-GH-GH-GH	None-None-None-None-None	2024-2028	**3**	**0**	**1.5**	**0**	15	140	-
F-24	A. Norek			6.2	Price	BILLYBOY 948A	2	250	0 - 2	0 - 300	No / No	No	No	GH-GH-GH-GH-GH	None-None-None-None-None	2024-2028	**3**	**0**	**1.5**	**NA**	34	-200	-

Crop Abbreviations

Abbreviation	Crop
GH	Grass hay

Tillage Abbreviations

Abbreviation	Tillage
None	None

ARM-LWR-480.docx (REV, 06/22/17)

Wisconsin Department of Agriculture, Trade and Consumer Protection
Division of Agricultural Resource Management
Bureau of Land and Water Resources
PO Box 8911, Madison WI 53708-8911, Phone: 608-224-4605

Use this form to check nutrient management (NM) plans for compliance with the WI NRCS 2015-590 Standard.

Nutrient Management Checklist

Wis. Stat. §92.05(3) (k), Wis. Admin. Code §ATCP50.04(3) and Ch. 51

COUNTY **Price**	DATE PLAN SUBMITTED **10/14/2021**	GROWING SEASON YEAR PLAN IS WRITTEN FOR **2019** (from harvest to harvest)
TOWNSHIP: (T. N.) RANGE: (R. E., W).		CHECK ONE: Initial Plan or Updated Plan

NAME OF FARM OPERATOR RECEIVING NM PLAN	FARM NAME (OPTIONAL)	BUSINESS PHONE
Albert Norek	**Phillips Plating- Albert Norek 8yr**	

STREET ADDRESS	CITY	STATE	ZIP
		WI	

REASON THE PLAN WAS DEVELOPED:	CROPLAND ACRES (OWNED & RENTED)
	26

RENTED FARM(S) LANDOWNER NAME(S) AND ACREAGE: add sheet(s) if needed

WAS THE PLAN WRITTEN IN SNAPPLUS? **YES** If yes, which software version, if known? **20.4**

CHECK PLANNER'S QUALIFICATION:
(1. NAICC-CPCC, 2. ASA-CCA, 3. SSSA-Soil Scientist, 4. DATCP approved training course, 5. Other approved by DATCP)

NAME OF QUALIFIED NUTRIENT MANAGEMENT PLANNER	BUSINESS PHONE

STREET ADDRESS	CITY	STATE	ZIP

Use header sections to add comments. Mark NA in the shaded sections if no manure is applied.

1. Does the plan include the following nutrient application requirements to protect surface and groundwater?

This section applies to fields and pastures. If no manure is applied, check NA for 1.c., 1.h., 1.i., 1.n., 1.o., 1.q., 1.s.	Yes	No	NA
a. Determine field nutrient levels from soil samples analyzed by a DATCP **certified laboratory**.	X		
b. For fields or pastures with mechanical nutrient applications, determine field nutrient levels from **soil samples** collected within the last **4 years** according to 590 Standard (590) and UWEX Pub. A2809, *Nutrient Application Guidelines for Field, Vegetable, and Fruit Crops in Wisconsin* (A2809) typically collecting **1 sample per 5 acres** of 10 cores. Soil tests are not required on **pastures** that do not receive mechanical applications of nutrients if either of the following applies: 1. The pasture average stocking rate is one animal unit per acre or less at all times during the grazing season. 2. The pasture is winter grazed or stocked at an average stocking rate of more than one animal unit per acre during the grazing season, and a nutrient management plan for the pasture complies with 590 using an assumed soil test phosphorus level of 150 PPM and organic matter content of 6%.	X		
c. For **livestock siting permit approval**, collect and analyze soil samples meeting the requirements above in 1. b., excluding pastures, within 12 months of approval and revise the nutrient management plan accordingly. Until then, either option below maybe used: 1. Assume soil test phosphorus levels are greater than 100 ppm soil test P, OR 2. Use preliminary estimates analyzed by a certified DATCP laboratory with soil samples representing > 5 ac/sample.			X
d. **Identify all fields'** name, boundary, acres, and location.	X		
e. Use the field's previous year's legume credit and/or applications, predominant soil series, and realistic yield goals to determine the crop's nutrient **application rates consistent with A2809 for ALL forms of N, P, and K.**	X		
f. Make no **winter applications of N and P** fertilizer, except on grass pastures and winter grains.	X		
g. Document method used to determine **application rates**. Nutrients shall not runoff during or immediately after application.	X		
h. Identify in the plan that **adequate acreage** is available for manure produced and/or applied.			X
i. Apply a single phosphorus (P) assessment using either the **P Index** or **soil test P** management strategy to all fields within a tract when fields receive manure or organic by-products during the crop rotation.			X
j. Use **complete crop rotations** and the field's **critical soil** series to determine that sheet and rill erosion estimates will not exceed **tolerable soil loss** (T) rates on fields that receive nutrients.	X		
k. Use contours; reduce tillage; adjust the crop rotation; or implement other practices to **prevent ephemeral erosion**; and maintain perennial vegetative cover to **prevent reoccurring gullies** in areas of concentrated flow.			
l. Make no nutrient applications within 8' of **irrigation** wells or where **vegetation is not removed**.			
m. Make no nutrient applications within **50' of all direct conduits to groundwater**, unless directly deposited by gleaning/pasturing animals or applied as starter fertilizer to corn.			

	Yes	No	NA
n. Make no **untreated manure applications** to areas within 1000' of a **community potable water well** or within 100' of a **non-community potable water well** (ex. church, school, restaurant) unless manure is treated to substantially eliminate pathogens.			X
o. Make no manure applications to areas **locally delineated** by the Land Conservation Committee or in a conservation plan as areas contributing runoff to direct conduits to groundwater unless manure is substantially buried within 24 hours of application.			X
p. Make no applications of **late summer or fall commercial N fertilizer** to the following areas UNLESS needed for establishment of fall seeded crops OR to meet A2809 with a blended commercial fertilizer. Commercial fertilizer N applications shall not exceed 36 lbs. N/acre on: • Sites vulnerable to N leaching **PRW Soils** (P=high permeability, R= bedrock < 20 inches, or W= wet < 12 inches to apparent water table); • Soils with depths of 5 feet or less to bedrock; • Area within 1,000 feet of a community potable water well. On **P soils, when commercial N is applied** for full season crops in **spring and summer**, follow A2809 and apply one of the following: 1. A split or delayed N application to apply a majority of crop N requirement after crop establishment. 2. Use a nitrification inhibitor with ammonium forms of N. 3. Use slow and controlled release fertilizers for a majority of the crop N requirement applied near the time of planting.	X		
q. Limit manure applications in late summer or fall using the lesser of A2809 or the following 590 rates on **PRW Soils.** Use ≤ 120 lbs. available N/acre on: **P and R soils** on *all crops, except annual crops*. Additionally, manure with ≤ 4% dry matter (DM) wait until after soil temp. < 50°F or Oct. 1, and use either a nitrification inhibitor OR surface apply and do not incorporate for at least 3 days. **W soils or combo. W soils** on *all crops.* Additionally, manure with ≤ 4% DM on *all crops* use at least one of the following: **1.** Use a nitrification inhibitor; **2.** Apply on an established cover crop, an overwintering annual, or perennial crop; **3.** Establish a cover crop within 14 days of application; **4.** Surface apply & don't incorporate for at least 3 days; **5.** Wait until after soil temp. < 50°F or Oct. 1. Use ≤ 90 lbs. available N/acre on: **P and R soils** on *annual crops* wait until after soil temp. < 50°F or Oct. 1. Additionally, manure with ≤ 4% DM use either a nitrification inhibitor OR surface apply and do not incorporate for at least 3 days. **W soils or combination W soils** receiving manure with ≤ 4% DM on *all crops*.			X
r. Use at least one of the following practices on **non-frozen soils for all nutrient applications** within **Surface Water Quality Management Area (SWQMA)** = 1000' of lakes/ponds or 300' of rivers: **1.** Maintain > 30% cover after nutrient application; **2.** Effective incorporation within 72 hours of application; **3.** Establish crops prior to, at, or promptly following application; **4.** Install/maintain vegetative buffers or filter strips; **5.** Have at least 3 consecutive years no-till for applications to fields with < 30% residue (silage) and apply nutrients within 7 days of planting.	X		
s. Limit mechanical applications to **12,000 gals/acre of unincorporated liquid manure or organic by-products with 11% or less dry matter where subsurface drainage is present** OR **within SWQMA**. Wait a minimum of 7 days between sequential applications AND use one or more of the practice options on non-frozen soils listed in 1.r.1. through **1.r.5.**			X

2. When frozen or snow-covered soils prevent effective incorporation, does the plan follow these requirements for winter applications of all mechanically applied manure or organic by-products? *This section doesn't apply to winter gleaning/pasturing meeting 590 N and P requirements.*

If no manure is applied, check NA for 2.a. through 2.g..	Yes	No	NA
a. Identify **manure quantities planned to be spread during the winter**, or the amount of manure generated in 14 days, whichever is greater. *For daily haul systems, assume 1/3 of the manure produced annually will need to be winter applied.*			X
b. Identify **manure storage capacity** for each type applied and stacking capacity for manure ≥ 16% DM if permanent storage does not exist.			X
c. Show on map and make no applications within the **SWQMA**.			X
d. Show on map and make no surface applications of liquid manure during **February and March** where **Silurian dolomite** is within 60 inches of the soils surface OR where **DNR Well Compensation** funds provided replacement water supplies for wells contaminated with livestock manure.			X
e. Show on map and make no applications of manure within **300 feet** of **direct conduits to groundwater**.			X
f. Do not exceed the P removal of the following growing season's crop when applying manure. Liquid manure applications are limited to **7,000 g/acre**. All winter manure applications are not to exceed **60 lbs. of P2O5/acre**.			X
g. Make no applications of manure to fields with **concentrated flow channels** unless using two of the following: **1.** Contour buffer strips or contour strip cropping; **2.** Leave all crop residue and no fall tillage; **3.** Apply manure in intermittent strips on no more than 50% of field; **4.** Apply manure on no more than 25% of the field waiting a minimum of 14 days between applications; **5.** Reduce manure app. rate to 3,500 gal. or 30 lbs. P2O5, whichever is less; **6.** No manure application within 200 feet of all concentrated flow channels; **7.** Fall tillage is on the contour and slopes are lower than 6%. Make no applications to **slopes greater than 6%** (soil map units with C, D, E, and F slopes) unless the plan documents that no other accessible fields are available for winter spreading AND two of the options 2.g.**1.** through 2.g.**5.** are used.			X

I certify that the plan represented by the answers on this checklist complies with Wisconsin's NRCS 2015-590 NM Standard or is otherwise noted.

Qualified NM planner signature NAICC-*Certified Professional Crop Consultant*, ASA-*Certified Crop Adviser*, or SSSA-*Soil Scientist*	Date

Qualified NM farmer-planner or Authorized farm operator signature receiving and understanding the plan	Date	Signature if reviewed for quality assurance	Date

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Nutrient Management Checklist

Wis. Stat. §92.05(3) (k), Wis. Admin. Code §ATCP50.04(3) and Ch. 51

COUNTY **Price**	DATE PLAN SUBMITTED **10/14/2021**	GROWING SEASON YEAR PLAN IS WRITTEN FOR **2024** (from harvest to harvest)
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NAME OF FARM OPERATOR RECEIVING NM PLAN	FARM NAME (OPTIONAL)	BUSINESS PHONE
Albert Norek	**Phillips Plating- Albert Norek 1yr**	

STREET ADDRESS	CITY	STATE	ZIP
		WI	

REASON THE PLAN WAS DEVELOPED:	CROPLAND ACRES (OWNED & RENTED)
	26

RENTED FARM(S) LANDOWNER NAME(S) AND ACREAGE: add sheet(s) if needed

WAS THE PLAN WRITTEN IN SNAPPLUS? **YES** If yes, which software version, if known? **20.4**

CHECK PLANNER'S QUALIFICATION:
(1. NAICC-CPCC, 2. ASA-CCA, 3. SSSA-Soil Scientist, 4. DATCP approved training course, 5. Other approved by DATCP)

NAME OF QUALIFIED NUTRIENT MANAGEMENT PLANNER	BUSINESS PHONE

STREET ADDRESS	CITY	STATE	ZIP

Use header sections to add comments. Mark NA in the shaded sections if no manure is applied.

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b. For fields or pastures with mechanical nutrient applications, determine field nutrient levels from **soil samples** collected within the last **4 years** according to 590 Standard (590) and UWEX Pub. A2809, *Nutrient Application Guidelines for Field, Vegetable, and Fruit Crops in Wisconsin* (A2809) typically collecting **1 sample per 5 acres** of 10 cores. Soil tests are not required on **pastures** that do not receive mechanical applications of nutrients if either of the following applies: 1. The pasture average stocking rate is one animal unit per acre or less at all times during the grazing season. 2. The pasture is winter grazed or stocked at an average stocking rate of more than one animal unit per acre during the grazing season, and a nutrient management plan for the pasture complies with 590 using an assumed soil test phosphorus level of 150 PPM and organic matter content of 6%.		X	
c. For **livestock siting permit approval**, collect and analyze soil samples meeting the requirements above in 1. b., excluding pastures, within 12 months of approval and revise the nutrient management plan accordingly. Until then, either option below maybe used: 1. Assume soil test phosphorus levels are greater than 100 ppm soil test P, OR 2. Use preliminary estimates analyzed by a certified DATCP laboratory with soil samples representing > 5 ac/sample.			X
d. **Identify all fields'** name, boundary, acres, and location.	X		
e. Use the field's previous year's legume credit and/or applications, predominant soil series, and realistic yield goals to determine the crop's nutrient **application rates consistent with A2809 for ALL forms of N, P, and K.**	X		
f. Make no **winter applications of N and P** fertilizer, except on grass pastures and winter grains.	X		
g. Document method used to determine **application rates**. Nutrients shall not runoff during or immediately after application.	X		
h. Identify in the plan that **adequate acreage** is available for manure produced and/or applied.			X
i. Apply a single phosphorus (P) assessment using either the **P Index** or **soil test P** management strategy to all fields within a tract when fields receive manure or organic by-products during the crop rotation.			X
j. Use **complete crop rotations** and the field's **critical soil** series to determine that sheet and rill erosion estimates will not exceed **tolerable soil loss** (T) rates on fields that receive nutrients.	X		
k. Use contours; reduce tillage; adjust the crop rotation; or implement other practices to **prevent ephemeral erosion**; and maintain perennial vegetative cover to **prevent reoccurring gullies** in areas of concentrated flow.			
l. Make no nutrient applications within 8' of **irrigation** wells or where **vegetation is not removed**.			
m. Make no nutrient applications within **50' of all direct conduits to groundwater**, unless directly deposited by gleaning/pasturing animals or applied as starter fertilizer to corn.			

	Yes	No	NA
n. Make no **untreated manure applications** to areas within 1000' of a **community potable water well** or within 100' of a **non-community potable water well** (ex. church, school, restaurant) unless manure is treated to substantially eliminate pathogens.			X
o. Make no manure applications to areas **locally delineated** by the Land Conservation Committee or in a conservation plan as areas contributing runoff to direct conduits to groundwater unless manure is substantially buried within 24 hours of application.			X
p. Make no applications of **late summer or fall commercial N fertilizer** to the following areas UNLESS needed for establishment of fall seeded crops OR to meet A2809 with a blended commercial fertilizer. Commercial fertilizer N applications shall not exceed 36 lbs. N/acre on: • Sites vulnerable to N leaching **PRW Soils** (P=high permeability, R= bedrock < 20 inches, or W= wet < 12 inches to apparent water table); • Soils with depths of 5 feet or less to bedrock; • Area within 1,000 feet of a community potable water well. On **P soils, when commercial N is applied** for full season crops in **spring and summer**, follow A2809 and apply one of the following: 1. A split or delayed N application to apply a majority of crop N requirement after crop establishment. 2. Use a nitrification inhibitor with ammonium forms of N. 3. Use slow and controlled release fertilizers for a majority of the crop N requirement applied near the time of planting.	X		
q. Limit manure applications in late summer or fall using the lesser of A2809 or the following 590 rates on **PRW Soils.** Use ≤ 120 lbs. available N/acre on: **P and R soils** on *all crops, except annual crops*. Additionally, manure with ≤ 4% dry matter (DM) wait until after soil temp. < 50°F or Oct. 1, and use either a nitrification inhibitor OR surface apply and do not incorporate for at least 3 days. **W soils or combo. W soils** on *all crops.* Additionally, manure with ≤ 4% DM on *all crops* use at least one of the following: **1.** Use a nitrification inhibitor; **2.** Apply on an established cover crop, an overwintering annual, or perennial crop; **3.** Establish a cover crop within 14 days of application; **4.** Surface apply & don't incorporate for at least 3 days; **5.** Wait until after soil temp. < 50°F or Oct. 1. Use ≤ 90 lbs. available N/acre on: **P and R soils** on *annual crops* wait until after soil temp. < 50°F or Oct. 1. Additionally, manure with ≤ 4% DM use either a nitrification inhibitor OR surface apply and do not incorporate for at least 3 days. **W soils or combination W soils** receiving manure with ≤ 4% DM on *all crops*.			X
r. Use at least one of the following practices on **non-frozen soils for all nutrient applications** within **Surface Water Quality Management Area (SWQMA)** = 1000' of lakes/ponds or 300' of rivers: **1.** Maintain > 30% cover after nutrient application; **2.** Effective incorporation within 72 hours of application; **3.** Establish crops prior to, at, or promptly following application; **4.** Install/maintain vegetative buffers or filter strips; **5.** Have at least 3 consecutive years no-till for applications to fields with < 30% residue (silage) and apply nutrients within 7 days of planting.	X		
s. Limit mechanical applications to **12,000 gals/acre of unincorporated liquid manure or organic by-products with 11% or less dry matter where subsurface drainage is present** OR **within SWQMA**. Wait a minimum of 7 days between sequential applications AND use one or more of the practice options on non-frozen soils listed in 1.r.1. through **1.r.5.**			X

2. When frozen or snow-covered soils prevent effective incorporation, does the plan follow these requirements for winter applications of all mechanically applied manure or organic by-products? *This section doesn't apply to winter gleaning/pasturing meeting 590 N and P requirements.*

If no manure is applied, check NA for 2.a. through 2.g..	Yes	No	NA
a. Identify **manure quantities planned to be spread during the winter**, or the amount of manure generated in 14 days, whichever is greater. *For daily haul systems, assume 1/3 of the manure produced annually will need to be winter applied.*			X
b. Identify **manure storage capacity** for each type applied and stacking capacity for manure ≥ 16% DM if permanent storage does not exist.			X
c. Show on map and make no applications within the **SWQMA**.			X
d. Show on map and make no surface applications of liquid manure during **February and March** where **Silurian dolomite** is within 60 inches of the soils surface OR where **DNR Well Compensation** funds provided replacement water supplies for wells contaminated with livestock manure.			X
e. Show on map and make no applications of manure within **300 feet** of **direct conduits to groundwater**.			X
f. Do not exceed the P removal of the following growing season's crop when applying manure. Liquid manure applications are limited to **7,000 g/acre**. All winter manure applications are not to exceed **60 lbs. of P2O5/acre**.			X
g. Make no applications of manure to fields with **concentrated flow channels** unless using two of the following: **1.** Contour buffer strips or contour strip cropping; **2.** Leave all crop residue and no fall tillage; **3.** Apply manure in intermittent strips on no more than 50% of field; **4.** Apply manure on no more than 25% of the field waiting a minimum of 14 days between applications; **5.** Reduce manure app. rate to 3,500 gal. or 30 lbs. P2O5, whichever is less; **6.** No manure application within 200 feet of all concentrated flow channels; **7.** Fall tillage is on the contour and slopes are lower than 6%. Make no applications to **slopes greater than 6%** (soil map units with C, D, E, and F slopes) unless the plan documents that no other accessible fields are available for winter spreading AND two of the options 2.g.**1.** through 2.g.**5.** are used.			X

I certify that the plan represented by the answers on this checklist complies with Wisconsin's NRCS 2015-590 NM Standard or is otherwise noted.

Qualified NM planner signature — NAICC-*Certified Professional Crop Consultant*, ASA-*Certified Crop Adviser*, or SSSA-*Soil Scientist* — Date

Qualified NM farmer-planner or Authorized farm operator signature receiving and understanding the plan — Date

Signature if reviewed for quality assurance — Date

FM6: Soil Test Report

Reported For	Phillips Plating- Albert Norek 8yr
Printed	2021-09-20
Plan Completion/Update Date	2020-09-29
SnapPlus Version 20.4 built on 2021-06-03	
C:\SnapPlus2\MySnapPlusData\Albert Norek\PP Norek Albert 9-3 8 yr.snapDb	

Prepared for:
Phillips Plating- Albert Norek 8yr
attn:Albert Norek

			Predominant					Samples				in ppm			
Field Name	Subfarm	Acres	Soil Map Symbol	Soil Name	Soil Test Date	Soil Test Lab	Lab Number	Rec. #	Actual #	pH	OM%	P	K	S	CEC
F-18	A. Norek	4.6	948A	BILLYBOY	2019-09-26	Dairyland Labs	8S4092	1	1	6.0	3.2	17	73	0	0
F-19	A. Norek	3.3	948A	BILLYBOY	2019-09-26	Dairyland Labs	8S4092	1	1	6.0	4.0	13	66	0	0
F-20W	A. Norek	0.7	948A	BILLYBOY	2019-09-26	DAIRYLAND LABS	8S4092	1	1	5.8	3.8	20	37	0	0
F-21	A. Norek	6	948A	BILLYBOY	2019-09-26	Dairyland Labs	8S4092	1	2	5.9	3.3	12	47	0	0
F-22	A. Norek	1.3	948A	BILLYBOY	2019-09-26	Dairyland Labs	8S4092	1	1	6.2	3.3	13	40	0	0
F-23	A. Norek	3.9	948A	BILLYBOY	2019-09-26	Dairyland Labs	8S4092	1	1	6.0	3.6	15	21	0	0
F-24	A. Norek	6.2	948A	BILLYBOY	2019-09-26	Dairyland Labs	8S4092	1	2	6.0	4.2	34	104	0	0

Crop Year Soil Test Needed

Field Name	Soil Test Date	2019	2020	2021	2022	2023	2024	2025
F-18	2019-09-26						X	
F-19	2019-09-26						X	
F-20W	2019-09-26						X	
F-21	2019-09-26						X	
F-22	2019-09-26						X	
F-23	2019-09-26						X	

Field Name	Soil Test Date	2019	2020	2021	2022	2023	2024	2025
F-24	2019-09-26						X	

NM1: Narrative and Crops Report

Starting Year	**2012**
Reported For	**Phillips Plating- Richard Norek 8yr**
Printed	**2021-09-16**
Plan Completion/Update Date:	**2020-09-29**
SnapPlus Version 20.4 built on 2021-06-03	
C:\SnapPlus2\MySnapPlusData\Richard Norek\PP Norek Richard 9-3 8 yr.snapDb	

Prepared for:
Phillips Plating- Richard Norek 8yr
attn:Richard Norek

Farm has 1 fields totalling 3.9 cropped acres.
Farm Narrative: Neil Foytik had a dairy operation with a milking herd of 35 lactating (20 X 1,400 lbs + 15 X 1,200 lbs) and seven dry cows (4X 1,400 lbs + 3 X 1,200 lbs) and a heifer herd of eight 750 lb heifers, nine 1,000 lb heifers, six 150 lbs calves, six 250 lb calves and one 1,400 lbs bull. There was no manure storage, so manure from both herds indoors 24 hrs/day in winter was hauled daily (from Nov 15 to May 15) to fields planned for corn planting in the following spring. Overnight (½ day milking to milking) manure from the milking herd was hauled every other day or three times per week to the oldest, grassiest hayfields (May 15 to Nov 15). Six months per year outdoor manure from the dairy herd was pasture-delivered to each of the five rotation-grazed pastures. Six months per year outdoor manure from the heifer herd was pasture-delivered to FP-12 and FP-12 lot.

An eight-year, target crop rotation started with one or two years of corn followed by alfalfa (red clover on Norek) that converted to grass for end the rotation. The corn and alfalfa planting was preceded by spring mold board plowing and spring disking. The target 8-yr rotation was often varied due to crop yield and weather variability. The average crop year included 15 acres of corn silage among the Foytik, Norek, and Lund properties. Winter manure was hauled to the to-be-corn fields regardless of ownership while indoor summer manure production was spread only on the Foytik and Lund grassy fields.

Corn fields received commercial fertilizer in addition to the manure. Alfalfa seedings received commercial fertilizer. No other fields or pastures received commercial fertilizer.

All the cattle were sold in the summer of 2020, the corn fields were planted to a hay pasture mixture, pastures, alfalfa fields, and the grassy hay fields were not tilled or replanted. Barnyards and feedlot/exercise areas were allowed to vegetate naturally.

NE SW S23 37N 1W
The Richard Norek Farm was rented by Neil Foytik for dairy production. The field has been seeded to permanent hayland with nutrient additions limited by this Nutrient Management Plan. No manure or whole field tillage is allowed.

Annual Farm Notes:

No Annual Farm Notes

Spreader Calibration Methods: Amount applied / Acres

Narrative and Crops:

Field Name	Field Acres	2012	2013	2014	2015	2016	2017	2018	2019
F-20E	3.9	Grass hay None 0.5-1.9 ton/acre	Grass hay None 2-3 ton/acre	Grass hay None 2-3 ton/acre	Corn silage Spring MB Plow 15.1-20 ton/acre	Red Clover seeding Spring Spring MB Plow 1-2.5 ton/acre	Red Clover None 2.6-3.5 ton/acre	Red Clover None 2.6-3.5 ton/acre	Grass hay None 3.1-4 ton/acre

Summary by Crop:
NOTE: Yields calculated using the midpoint of the SnapPlus yield goal range for each crop.

Crops Grouped By Category		2012	2013	2014	2015	2016	2017	2018	2019
Corn silage	Acres ton				4 70				
Grass hay	Acres ton	4 5	4 10	4 10					4 14
Red Clover	Acres ton						4 12	4 12	
Red Clover seeding Spring	Acres ton					4 7			

NM1: Narrative and Crops Report

Starting Year	**2024**
Reported For	**Phillips Plating- Richard Norek 1yr**
Printed	**2021-09-16**
Plan Completion/Update Date:	**2020-09-29**
SnapPlus Version 20.4 built on 2021-06-03	
C:\SnapPlus2\MySnapPlusData\Richard Norek\PP Norek Richard 9-3 1 yr.snapDb	

Prepared for:
Phillips Plating- Richard Norek 1yr
attn:Richard Norek

Farm has 1 fields totalling 3.9 cropped acres.
Farm Narrative: Neil Foytik had a dairy operation with a milking herd of 35 lactating (20 X 1,400 lbs + 15 X 1,200 lbs) and seven dry cows (4X 1,400 lbs + 3 X 1,200 lbs) and a heifer herd of eight 750 lb heifers, nine 1,000 lb heifers, six 150 lbs calves, six 250 lb calves and one 1,400 lbs bull. There was no manure storage, so manure from both herds indoors 24 hrs/day in winter was hauled daily (from Nov 15 to May 15) to fields planned for corn planting in the following spring. Overnight (½ day milking to milking) manure from the milking herd was hauled every other day or three times per week to the oldest, grassiest hayfields (May 15 to Nov 15). Six months per year outdoor manure from the dairy herd was pasture-delivered to each of the five rotation-grazed pastures. Six months per year outdoor manure from the heifer herd was pasture-delivered to FP-12 and FP-12 lot.

An eight-year, target crop rotation started with one or two years of corn followed by alfalfa (red clover on Norek) that converted to grass for end the rotation. The corn and alfalfa planting was preceded by spring mold board plowing and spring disking. The target 8-yr rotation was often varied due to crop yield and weather variability. The average crop year included 15 acres of corn silage among the Foytik, Norek, and Lund properties. Winter manure was hauled to the to-be-corn fields regardless of ownership while indoor summer manure production was spread only on the Foytik and Lund grassy fields.

Corn fields received commercial fertilizer in addition to the manure. Alfalfa seedings received commercial fertilizer. No other fields or pastures received commercial fertilizer.

All the cattle were sold in the summer of 2020, the corn fields were planted to a hay pasture mixture, pastures, alfalfa fields, and the grassy hay fields were not tilled or replanted. Barnyards and feedlot/exercise areas were allowed to vegetate naturally.

NE SW S23 37N 1W
The Richard Norek Farm was rented by Neil Foytik for dairy production. The field has been seeded to permanent hayland with nutrient additions limited by this Nutrient Management Plan. No manure or whole field tillage is allowed.

Annual Farm Notes:

No Annual Farm Notes

Spreader Calibration Methods: Amount applied / Acres

Narrative and Crops:

Field Name	Field Acres	2024	2025	2026	2027	2028
F-20E	3.9	Grass hay None 2-3 ton/acre	Grass hay None 2-3 ton/acre	Grass hay None 2-3 ton/acre	Grass hay None 2-3 ton/acre	Grass hay None 2-3 ton/acre

Summary by Crop:
NOTE: Yields calculated using the midpoint of the SnapPlus yield goal range for each crop.

Crops Grouped By Category		2024	2025	2026	2027	2028
Grass hay	Acres ton	4 10	4 10	4 10	4 10	4 10

NM2: Application Restriction Compliance Check Report

For Years	**2012 - 2019**
Plan Year	**2019**
Reported For	**Phillips Plating- Richard Norek 8yr**
Printed	**2021-09-29**
Plan Completion/Update Date	**2020-09-29**
SnapPlus Version 20.4 built on 2021-06-03	
C:\SnapPlus2\MySnapPlusData\Richard Norek\PP Norek Richard 9-3 8 yr.snapDb	

Prepared for:
Phillips Plating- Richard Norek 8yr
attn:Richard Norek

This farm uses both PI and Soil Test P for P2O5 590 Compliance

Rotational Restriction Problems

No Rotational Problems found

Soil Test Problems

No Soil Test Problems

Soil Test Problems Legend	
Too Few Soil Samples	Less than one sample per five acres.
Soil Test Data Too Old	Soil test is greater than 4 years old

Application Restriction Problems

No Application Restriction Problems found

NM2: Application Restriction Compliance Check Report

For Years	**2024 - 2028**
Plan Year	**2024**
Reported For	**Phillips Plating- Richard Norek 1yr**
Printed	**2021-09-16**
Plan Completion/Update Date	**2020-09-29**
SnapPlus Version 20.4 built on 2021-06-03	
C:\SnapPlus2\MySnapPlusData\Richard Norek\PP Norek Richard 9-3 1 yr.snapDb	

Prepared for:
Phillips Plating- Richard Norek 1yr
attn:Richard Norek

This farm uses both PI and Soil Test P for P2O5 590 Compliance

Rotational Restriction Problems

No Rotational Problems found

Soil Test Problems

Field Name	Soil Test Date	Too Few Soil Samples	Soil Test Too Old
F-20E	2019-09-26		X

Soil Test Problems Legend	
Too Few Soil Samples	Less than one sample per five acres.
Soil Test Data Too Old	Soil test is greater than 4 years old

Application Restriction Problems

No Application Restriction Problems found

NM3: Field Data and 590 Assessment Plan

Reported For	Phillips Plating- Richard Norek 8yr
Printed	2021-09-16
Plan Completion/Update Date	2020-09-29
SnapPlus Version 20.4 built on 2021-06-03	
C:\SnapPlus2\MySnapPlusData\Richard Norek\PP Norek Richard 9-3 8 yr.snapDb	

Prepared for:
Phillips Plating- Richard Norek 8yr
attn:Richard Norek

Field Data: 4 Total Acres Reported.

Field Name	SubFarm	FSA Trct	FSA Fld	Acres	County	Critical Soil Series & Symbol	F. Slp %	F.Slp Len ft	Below Field Slope To Water %	Dist.To Water ft	Contour/ Filters	Irrig	Tiled	Rotation	Tillage	Report Period	Field "T" t/ac	Rot Avg Soil Loss t/ac	SCI	Rot Avg PI	Soil Test P ppm	Rot P2O5 Bal lb/ac	P2O5 Bal Target lb/ac
F-20E	R. Norek			3.9	Price	BILLYBOY 948A	2	250	0 - 2	1001 - 5000	No / No	No	No	GH-GH-GH-Csl-RCss-RC-RC-GH	None-None-None-SP-SP-None-None-None	2012-2019	**3**	**0.3**	**1.0**	**1**	17	-143	-

Crop Abbreviations	
Abbreviation	**Crop**
Csl	Corn silage
GH	Grass hay
RC	Red Clover
RCss	Red Clover seeding Spring

Tillage Abbreviations	
Abbreviation	**Tillage**
None	None
SP	Spring MB Plow

NM3: Field Data and 590 Assessment Plan

Reported For	Phillips Plating- Richard Norek 5yr
Printed	2021-10-14
Plan Completion/Update Date	2020-09-29
SnapPlus Version 20.4 built on 2021-06-03	
C:\SnapPlus2\MySnapPlusData\Richard Norek\PP Norek Richard 9-3 5 yr.snapDb	

Prepared for:
Phillips Plating- Richard Norek 5yr
attn:Richard Norek

Field Data: 4 Total Acres Reported.

Field Name	SubFarm	FSA Trct	FSA Fld	Acres	County	Critical Soil Series & Symbol	F. Slp %	F.Slp Len ft	Below Field Slope To Water %	Dist.To Water ft	Contour/ Filters	Irrig	Tiled	Rotation	Tillage	Report Period	Field "T" t/ac	Rot Avg Soil Loss t/ac	SCI	Rot Avg PI	Soil Test P ppm	Rot P2O5 Bal lb/ac	P2O5 Bal Target lb/ac
F-20E	R. Norek			3.9	Price	BILLYBOY 948A	2	250	0 - 2	1001 - 5000	No / No	No	No	GH-GH-GH-GH-GH	None-None-None-None-None	2024-2028	**3**	**0**	**1.5**	**0**	17	-5	-

Crop Abbreviations	
Abbreviation	Crop
GH	Grass hay

Tillage Abbreviations	
Abbreviation	Tillage
None	None

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Wisconsin Department of Agriculture, Trade and Consumer Protection
Division of Agricultural Resource Management
Bureau of Land and Water Resources
PO Box 8911, Madison WI 53708-8911, Phone: 608-224-4605

Use this form to check nutrient management (NM) plans for compliance with the WI NRCS 2015-590 Standard.

Nutrient Management Checklist

Wis. Stat. §92.05(3) (k), Wis. Admin. Code §ATCP50.04(3) and Ch. 51

COUNTY **Price**	DATE PLAN SUBMITTED **10/14/2021**	GROWING SEASON YEAR PLAN IS WRITTEN FOR **2019** (from harvest to harvest)
TOWNSHIP: (T. N.) RANGE: (R. E., W).		CHECK ONE: Initial Plan or Updated Plan

NAME OF FARM OPERATOR RECEIVING NM PLAN	FARM NAME (OPTIONAL)	BUSINESS PHONE
Richard Norek	**Phillips Plating- Richard Norek 8yr**	

STREET ADDRESS	CITY	STATE	ZIP
		WI	

REASON THE PLAN WAS DEVELOPED:	CROPLAND ACRES (OWNED & RENTED)
	4

RENTED FARM(S) LANDOWNER NAME(S) AND ACREAGE: add sheet(s) if needed

WAS THE PLAN WRITTEN IN SNAPPLUS? **YES** If yes, which software version, if known? **20.4**

CHECK PLANNER'S QUALIFICATION:
(1. NAICC-CPCC, 2. ASA-CCA, 3. SSSA-Soil Scientist, 4. DATCP approved training course, 5. Other approved by DATCP)

NAME OF QUALIFIED NUTRIENT MANAGEMENT PLANNER	BUSINESS PHONE

STREET ADDRESS	CITY	STATE	ZIP

Use header sections to add comments. Mark NA in the shaded sections if no manure is applied.

1. Does the plan include the following nutrient application requirements to protect surface and groundwater?

This section applies to fields and pastures. If no manure is applied, check NA for 1.c., 1.h., 1.i., 1.n., 1.o., 1.q., 1.s.	Yes	No	NA
a. Determine field nutrient levels from soil samples analyzed by a DATCP **certified laboratory**.	X		
b. For fields or pastures with mechanical nutrient applications, determine field nutrient levels from **soil samples** collected within the last **4 years** according to 590 Standard (590) and UWEX Pub. A2809, *Nutrient Application Guidelines for Field, Vegetable, and Fruit Crops in Wisconsin* (A2809) typically collecting **1 sample per 5 acres** of 10 cores. Soil tests are not required on **pastures** that do not receive mechanical applications of nutrients if either of the following applies: 1. The pasture average stocking rate is one animal unit per acre or less at all times during the grazing season. 2. The pasture is winter grazed or stocked at an average stocking rate of more than one animal unit per acre during the grazing season, and a nutrient management plan for the pasture complies with 590 using an assumed soil test phosphorus level of 150 PPM and organic matter content of 6%.	X		
c. For **livestock siting permit approval**, collect and analyze soil samples meeting the requirements above in 1. b., excluding pastures, within 12 months of approval and revise the nutrient management plan accordingly. Until then, either option below maybe used: 1. Assume soil test phosphorus levels are greater than 100 ppm soil test P, OR 2. Use preliminary estimates analyzed by a certified DATCP laboratory with soil samples representing > 5 ac/sample.			X
d. **Identify all fields'** name, boundary, acres, and location.	X		
e. Use the field's previous year's legume credit and/or applications, predominant soil series, and realistic yield goals to determine the crop's nutrient **application rates consistent with A2809 for ALL forms of N, P, and K.**	X		
f. Make no **winter applications of N and P** fertilizer, except on grass pastures and winter grains.	X		
g. Document method used to determine **application rates**. Nutrients shall not runoff during or immediately after application.	X		
h. Identify in the plan that **adequate acreage** is available for manure produced and/or applied.			X
i. Apply a single phosphorus (P) assessment using either the **P Index** or **soil test P** management strategy to all fields within a tract when fields receive manure or organic by-products during the crop rotation.			X
j. Use **complete crop rotations** and the field's **critical soil** series to determine that sheet and rill erosion estimates will not exceed **tolerable soil loss** (T) rates on fields that receive nutrients.	X		
k. Use contours; reduce tillage; adjust the crop rotation; or implement other practices to **prevent ephemeral erosion**; and maintain perennial vegetative cover to **prevent reoccurring gullies** in areas of concentrated flow.			
l. Make no nutrient applications within 8' of **irrigation** wells or where **vegetation is not removed**.			
m. Make no nutrient applications within **50' of all direct conduits to groundwater**, unless directly deposited by gleaning/pasturing animals or applied as starter fertilizer to corn.			

	Yes	No	NA
n. Make no **untreated manure applications** to areas within 1000' of a **community potable water well** or within 100' of a **non-community potable water well** (ex. church, school, restaurant) unless manure is treated to substantially eliminate pathogens.			X
o. Make no manure applications to areas **locally delineated** by the Land Conservation Committee or in a conservation plan as areas contributing runoff to direct conduits to groundwater unless manure is substantially buried within 24 hours of application.			X
p. Make no applications of **late summer or fall commercial N fertilizer** to the following areas UNLESS needed for establishment of fall seeded crops OR to meet A2809 with a blended commercial fertilizer. Commercial fertilizer N applications shall not exceed 36 lbs. N/acre on: • Sites vulnerable to N leaching **PRW Soils** (P=high permeability, R= bedrock < 20 inches, or W= wet < 12 inches to apparent water table); • Soils with depths of 5 feet or less to bedrock; • Area within 1,000 feet of a community potable water well. On **P soils, when commercial N is applied** for full season crops in **spring and summer**, follow A2809 and apply one of the following: 1. A split or delayed N application to apply a majority of crop N requirement after crop establishment. 2. Use a nitrification inhibitor with ammonium forms of N. 3. Use slow and controlled release fertilizers for a majority of the crop N requirement applied near the time of planting.	X		
q. Limit manure applications in late summer or fall using the lesser of A2809 or the following 590 rates on **PRW Soils.** Use ≤ 120 lbs. available N/acre on: **P and R soils** on *all crops, except annual crops*. Additionally, manure with ≤ 4% dry matter (DM) wait until after soil temp. < 50°F or Oct. 1, and use either a nitrification inhibitor OR surface apply and do not incorporate for at least 3 days. **W soils or combo. W soils** on *all crops.* Additionally, manure with ≤ 4% DM on *all crops* use at least one of the following: **1.** Use a nitrification inhibitor; **2.** Apply on an established cover crop, an overwintering annual, or perennial crop; **3.** Establish a cover crop within 14 days of application; **4.** Surface apply & don't incorporate for at least 3 days; **5.** Wait until after soil temp. < 50°F or Oct. 1. Use ≤ 90 lbs. available N/acre on: **P and R soils** on *annual crops* wait until after soil temp. < 50°F or Oct. 1. Additionally, manure with ≤ 4% DM use either a nitrification inhibitor OR surface apply and do not incorporate for at least 3 days. **W soils or combination W soils** receiving manure with ≤ 4% DM on *all crops*.			X
r. Use at least one of the following practices on **non-frozen soils for all nutrient applications** within **Surface Water Quality Management Area (SWQMA)** = 1000' of lakes/ponds or 300' of rivers: **1.** Maintain > 30% cover after nutrient application; **2.** Effective incorporation within 72 hours of application; **3.** Establish crops prior to, at, or promptly following application; **4.** Install/maintain vegetative buffers or filter strips; **5.** Have at least 3 consecutive years no-till for applications to fields with < 30% residue (silage) and apply nutrients within 7 days of planting.	X		
s. Limit mechanical applications to **12,000 gals/acre of unincorporated liquid manure or organic by-products with 11% or less dry matter where subsurface drainage is present** OR **within SWQMA**. Wait a minimum of 7 days between sequential applications AND use one or more of the practice options on non-frozen soils listed in 1.r.1. through **1.r.5.**			X

2. When frozen or snow-covered soils prevent effective incorporation, does the plan follow these requirements for winter applications of all mechanically applied manure or organic by-products? *This section doesn't apply to winter gleaning/pasturing meeting 590 N and P requirements.*

If no manure is applied, check NA for 2.a. through 2.g..	Yes	No	NA
a. Identify **manure quantities planned to be spread during the winter**, or the amount of manure generated in 14 days, whichever is greater. *For daily haul systems, assume 1/3 of the manure produced annually will need to be winter applied.*			X
b. Identify **manure storage capacity** for each type applied and stacking capacity for manure ≥ 16% DM if permanent storage does not exist.			X
c. Show on map and make no applications within the **SWQMA**.			X
d. Show on map and make no surface applications of liquid manure during **February and March** where **Silurian dolomite** is within 60 inches of the soils surface OR where **DNR Well Compensation** funds provided replacement water supplies for wells contaminated with livestock manure.			X
e. Show on map and make no applications of manure within **300 feet** of **direct conduits to groundwater**.			X
f. Do not exceed the P removal of the following growing season's crop when applying manure. Liquid manure applications are limited to **7,000 g/acre**. All winter manure applications are not to exceed **60 lbs. of P2O5/acre**.			X
g. Make no applications of manure to fields with **concentrated flow channels** unless using two of the following: **1.** Contour buffer strips or contour strip cropping; **2.** Leave all crop residue and no fall tillage; **3.** Apply manure in intermittent strips on no more than 50% of field; **4.** Apply manure on no more than 25% of the field waiting a minimum of 14 days between applications; **5.** Reduce manure app. rate to 3,500 gal. or 30 lbs. P2O5, whichever is less; **6.** No manure application within 200 feet of all concentrated flow channels; **7.** Fall tillage is on the contour and slopes are lower than 6%. Make no applications to **slopes greater than 6%** (soil map units with C, D, E, and F slopes) unless the plan documents that no other accessible fields are available for winter spreading AND two of the options 2.g.**1.** through 2.g.**5.** are used.			X

I certify that the plan represented by the answers on this checklist complies with Wisconsin's NRCS 2015-590 NM Standard or is otherwise noted.

Qualified NM planner signature NAICC-*Certified Professional Crop Consultant*, ASA-*Certified Crop Adviser*, or SSSA-*Soil Scientist*	Date

Qualified NM farmer-planner or Authorized farm operator signature receiving and understanding the plan	Date	Signature if reviewed for quality assurance	Date

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Use this form to check nutrient management (NM) plans for compliance with the WI NRCS 2015-590 Standard.

Nutrient Management Checklist

Wis. Stat. §92.05(3) (k), Wis. Admin. Code §ATCP50.04(3) and Ch. 51

COUNTY **Price**	DATE PLAN SUBMITTED **10/14/2021**	GROWING SEASON YEAR PLAN IS WRITTEN FOR **2024** (from harvest to harvest)
TOWNSHIP: (T. N.) RANGE: (R. E., W).		CHECK ONE: Initial Plan or Updated Plan

NAME OF FARM OPERATOR RECEIVING NM PLAN	FARM NAME (OPTIONAL)	BUSINESS PHONE
Richard Norek	**Phillips Plating- Richard Norek 1yr**	

STREET ADDRESS	CITY	STATE	ZIP
		WI	

REASON THE PLAN WAS DEVELOPED:	CROPLAND ACRES (OWNED & RENTED)
	4

RENTED FARM(S) LANDOWNER NAME(S) AND ACREAGE: add sheet(s) if needed

WAS THE PLAN WRITTEN IN SNAPPLUS? **YES** If yes, which software version, if known? **20.4**

CHECK PLANNER'S QUALIFICATION:
(1. NAICC-CPCC, 2. ASA-CCA, 3. SSSA-Soil Scientist, 4. DATCP approved training course, 5. Other approved by DATCP)

NAME OF QUALIFIED NUTRIENT MANAGEMENT PLANNER	BUSINESS PHONE

STREET ADDRESS	CITY	STATE	ZIP

Use header sections to add comments. Mark NA in the shaded sections if no manure is applied.

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This section applies to fields and pastures. If no manure is applied, check NA for 1.c., 1.h., 1.i., 1.n., 1.o., 1.q., 1.s.	Yes	No	NA
a. Determine field nutrient levels from soil samples analyzed by a DATCP **certified laboratory**.	X		
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c. For **livestock siting permit approval**, collect and analyze soil samples meeting the requirements above in 1. b., excluding pastures, within 12 months of approval and revise the nutrient management plan accordingly. Until then, either option below maybe used: 1. Assume soil test phosphorus levels are greater than 100 ppm soil test P, OR 2. Use preliminary estimates analyzed by a certified DATCP laboratory with soil samples representing > 5 ac/sample.			X
d. **Identify all fields'** name, boundary, acres, and location.	X		
e. Use the field's previous year's legume credit and/or applications, predominant soil series, and realistic yield goals to determine the crop's nutrient **application rates consistent with A2809 for ALL forms of N, P, and K.**	X		
f. Make no **winter applications of N and P** fertilizer, except on grass pastures and winter grains.	X		
g. Document method used to determine **application rates**. Nutrients shall not runoff during or immediately after application.	X		
h. Identify in the plan that **adequate acreage** is available for manure produced and/or applied.			X
i. Apply a single phosphorus (P) assessment using either the **P Index** or **soil test P** management strategy to all fields within a tract when fields receive manure or organic by-products during the crop rotation.			X
j. Use **complete crop rotations** and the field's **critical soil** series to determine that sheet and rill erosion estimates will not exceed **tolerable soil loss** (T) rates on fields that receive nutrients.	X		
k. Use contours; reduce tillage; adjust the crop rotation; or implement other practices to **prevent ephemeral erosion**; and maintain perennial vegetative cover to **prevent reoccurring gullies** in areas of concentrated flow.			
l. Make no nutrient applications within 8' of **irrigation** wells or where **vegetation is not removed**.			
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	Yes	No	NA
n. Make no **untreated manure applications** to areas within 1000' of a **community potable water well** or within 100' of a **non-community potable water well** (ex. church, school, restaurant) unless manure is treated to substantially eliminate pathogens.			X
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q. Limit manure applications in late summer or fall using the lesser of A2809 or the following 590 rates on **PRW Soils.** Use ≤ 120 lbs. available N/acre on: **P and R soils** on *all crops, except annual crops*. Additionally, manure with ≤ 4% dry matter (DM) wait until after soil temp. < 50°F or Oct. 1, and use either a nitrification inhibitor OR surface apply and do not incorporate for at least 3 days. **W soils or combo. W soils** on *all crops.* Additionally, manure with ≤ 4% DM on *all crops* use at least one of the following: **1.** Use a nitrification inhibitor; **2.** Apply on an established cover crop, an overwintering annual, or perennial crop; **3.** Establish a cover crop within 14 days of application; **4.** Surface apply & don't incorporate for at least 3 days; **5.** Wait until after soil temp. < 50°F or Oct. 1. Use ≤ 90 lbs. available N/acre on: **P and R soils** on *annual crops* wait until after soil temp. < 50°F or Oct. 1. Additionally, manure with ≤ 4% DM use either a nitrification inhibitor OR surface apply and do not incorporate for at least 3 days. **W soils or combination W soils** receiving manure with ≤ 4% DM on *all crops*.			X
r. Use at least one of the following practices on **non-frozen soils for all nutrient applications** within **Surface Water Quality Management Area (SWQMA)** = 1000' of lakes/ponds or 300' of rivers: **1.** Maintain > 30% cover after nutrient application; **2.** Effective incorporation within 72 hours of application; **3.** Establish crops prior to, at, or promptly following application; **4.** Install/maintain vegetative buffers or filter strips; **5.** Have at least 3 consecutive years no-till for applications to fields with < 30% residue (silage) and apply nutrients within 7 days of planting.	X		
s. Limit mechanical applications to **12,000 gals/acre of unincorporated liquid manure or organic by-products with 11% or less dry matter where subsurface drainage is present** OR **within SWQMA**. Wait a minimum of 7 days between sequential applications AND use one or more of the practice options on non-frozen soils listed in 1.r.1. through **1.r.5.**			X

2. When frozen or snow-covered soils prevent effective incorporation, does the plan follow these requirements for winter applications of all mechanically applied manure or organic by-products? *This section doesn't apply to winter gleaning/pasturing meeting 590 N and P requirements.*

If no manure is applied, check NA for 2.a. through 2.g..	Yes	No	NA
a. Identify **manure quantities planned to be spread during the winter**, or the amount of manure generated in 14 days, whichever is greater. *For daily haul systems, assume 1/3 of the manure produced annually will need to be winter applied.*			X
b. Identify **manure storage capacity** for each type applied and stacking capacity for manure ≥ 16% DM if permanent storage does not exist.			X
c. Show on map and make no applications within the **SWQMA**.			X
d. Show on map and make no surface applications of liquid manure during **February and March** where **Silurian dolomite** is within 60 inches of the soils surface OR where **DNR Well Compensation** funds provided replacement water supplies for wells contaminated with livestock manure.			X
e. Show on map and make no applications of manure within **300 feet** of **direct conduits to groundwater**.			X
f. Do not exceed the P removal of the following growing season's crop when applying manure. Liquid manure applications are limited to **7,000 g/acre**. All winter manure applications are not to exceed **60 lbs. of P2O5/acre**.			X
g. Make no applications of manure to fields with **concentrated flow channels** unless using two of the following: **1.** Contour buffer strips or contour strip cropping; **2.** Leave all crop residue and no fall tillage; **3.** Apply manure in intermittent strips on no more than 50% of field; **4.** Apply manure on no more than 25% of the field waiting a minimum of 14 days between applications; **5.** Reduce manure app. rate to 3,500 gal. or 30 lbs. P2O5, whichever is less; **6.** No manure application within 200 feet of all concentrated flow channels; **7.** Fall tillage is on the contour and slopes are lower than 6%. Make no applications to **slopes greater than 6%** (soil map units with C, D, E, and F slopes) unless the plan documents that no other accessible fields are available for winter spreading AND two of the options 2.g.**1.** through 2.g.**5.** are used.			X

I certify that the plan represented by the answers on this checklist complies with Wisconsin's NRCS 2015-590 NM Standard or is otherwise noted.

Qualified NM planner signature NAICC-*Certified Professional Crop Consultant*, ASA-*Certified Crop Adviser*, or SSSA-*Soil Scientist*	Date

Qualified NM farmer-planner or Authorized farm operator signature receiving and understanding the plan	Date	Signature if reviewed for quality assurance	Date

FM6: Soil Test Report

Reported For	Phillips Plating- Richard Norek 8yr
Printed	2021-09-16
Plan Completion/Update Date	2020-09-29
SnapPlus Version 20.4 built on 2021-06-03	
C:\SnapPlus2\MySnapPlusData\Richard Norek\PP Norek Richard 9-3 8 yr.snapDb	

Prepared for:
Phillips Plating- Richard Norek 8yr
attn:Richard Norek

			Predominant					Samples				in ppm			
Field Name	Subfarm	Acres	Soil Map Symbol	Soil Name	Soil Test Date	Soil Test Lab	Lab Number	Rec. #	Actual #	pH	OM%	P	K	S	CEC
F-20E	R. Norek	3.9	948A	BILLYBOY	2019-09-26	Dairyland Labs	8S4092	1	2	6.2	3.6	17	35	0	0

Crop Year Soil Test Needed

Field Name	Soil Test Date	2019	2020	2021	2022	2023	2024	2025
F-20E	2019-09-26						X	

Attachment D: SnapPlus P Trade Reports

WQ1: P Trade Report

Reported For	Phillips Plating Foytik 8yr
Printed	2021-10-14
Plan Completion/Update Date	2020-09-29
SnapPlus Version 20.4 built on 2021-06-03	
C:\SnapPlus2\MySnapPlusData\Foytik\PP Foytik 9-3 8y.snapDb	

Prepared for:
Phillips Plating Foytik 8yr
attn:Neil Foytik

The P Trade Report estimates the annual pounds of phosphorus (P) in surface runoff from cropland entering surface waters. These P loss calculations are based on a field's soil test P concentration, crops, tillage, nutrient management practices and estimates of average runoff and sheet and rill erosion for the predominant soil type. Losses from concentrated flow channel or gully erosion with a field are not included in these calculations. Field runoff losses are calculated for each year as **PTP** (lb P/field/yr). Fields are only included if there are at least 2 years of crops before the selected start year. Before using this report as part of a Water Quality Trade activity, phosphorus losses (PTP) must be converted into 'P credits' according to DNR guidance.

For more information go to **http://dnr.wi.gov/** and type keyword: **Water Quality Trading**

Questions? Please contact DNRphosphorus@wisconsin.gov

This report was developed for Wisconsin DNR Water Quality Trading and Adaptive Management purposes and cannot be used to demonstrate compliance with NR 151 or NRCS 590 NM plan requirements.

P Trade Report				PTP										
Field Name	Soil Series	Soil Symbol	Acres	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
F1	BILLYBOY	948A	5	48	11	3	2	2	1	2	30	6	2	2
F2	GLIDDEN	730B	7	18	4	3	2	1	1	1	40	9	2	1
F3	GLIDDEN	730B	11	2	2	104	25	7	4	3	3	7	2	2
F4	GLIDDEN	730C	11	1	0	0	0	167	66	10	4	1	1	1
F5	BILLYBOY	948A	6	1	1	1	38	8	2	2	1	1	0	0
F6	BILLYBOY	948A	7	4	73	15	5	4	3	2	2	2	2	2
FP10	WHISKLAKE	701A	2	3	3	3	3	3	3	3	3	2	2	2
FP11	NEWOOD	3546C	2	2	2	2	2	2	2	1	1	1	1	1

PTP						
2023	2024	2025	2026	2027	2028	2029
1	1	1	1	1	1	1
1	1	1	1	1	1	1
2	2	2	2	2	2	1
1	1	1	1	1	1	1
0	0	0	0	0	0	0
1	1	1	1	1	1	1
2	1	1	1	1	1	1
1	1	1	1	1	1	1

P Trade Report				PTP										
Field Name	Soil Series	Soil Symbol	Acres	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
FP12	FORDUM	755A	34	13	13	13	13	13	13	12	12	8	6	5
FP7	BILLYBOY	948A	5	3	2	1	1	1	1	2	2	2	1	1
FP8	BILLYBOY	948A	3	1	1	1	2	2	1	1	1	1	0	1
FP9	GLIDDEN	730C	3	2	2	2	2	2	2	2	2	2	1	1
Total			**97**	**96**	**114**	**148**	**93**	**210**	**98**	**41**	**101**	**42**	**19**	**17**

PTP						
2023	2024	2025	2026	2027	2028	2029
5	4	4	4	4	4	4
1	0	0	0	0	0	0
1	1	1	1	1	1	1
1	1	1	1	1	1	1
16	**15**	**14**	**14**	**13**	**13**	**12**

WQ1: P Trade Report

Reported For	Phillips Plating Foytik 1yr
Printed	2021-10-14
Plan Completion/Update Date	2020-09-29
SnapPlus Version 20.4 built on 2021-06-03	
C:\SnapPlus2\MySnapPlusData\Foytik\PP Foytik 9-3 1y.snapDb	

Prepared for:
Phillips Plating Foytik 1yr
attn:Neil Foytik

The P Trade Report estimates the annual pounds of phosphorus (P) in surface runoff from cropland entering surface waters. These P loss calculations are based on a field's soil test P concentration, crops, tillage, nutrient management practices and estimates of average runoff and sheet and rill erosion for the predominant soil type. Losses from concentrated flow channel or gully erosion with a field are not included in these calculations. Field runoff losses are calculated for each year as **PTP** (lb P/field/yr). Fields are only included if there are at least 2 years of crops before the selected start year. Before using this report as part of a Water Quality Trade activity, phosphorus losses (PTP) must be converted into 'P credits' according to DNR guidance.

For more information go to **http://dnr.wi.gov/** and type keyword: **Water Quality Trading**

Questions? Please contact DNRphosphorus@wisconsin.gov

This report was developed for Wisconsin DNR Water Quality Trading and Adaptive Management purposes and cannot be used to demonstrate compliance with NR 151 or NRCS 590 NM plan requirements.

P Trade Report				PTP					
Field Name	Soil Series	Soil Symbol	Acres	2024	2025	2026	2027	2028	2029
F1	BILLYBOY	948A	5	1	1	1	1	1	1
F2	GLIDDEN	730B	7	1	1	1	1	1	1
F3	GLIDDEN	730B	11	2	2	2	2	2	1
F4	GLIDDEN	730C	11	1	1	1	1	1	1
F5	BILLYBOY	948A	6	0	0	0	0	0	0
F6	BILLYBOY	948A	7	1	1	1	1	1	1
FP10	WHISKLAKE	701A	2	1	1	1	1	1	1
FP11	NEWOOD	3546C	2	1	1	1	1	1	1

P Trade Report				PTP					
Field Name	Soil Series	Soil Symbol	Acres	2024	2025	2026	2027	2028	2029
FP12	FORDUM	755A	34	4	4	4	4	4	4
FP7	BILLYBOY	948A	5	0	0	0	0	0	0
FP8	BILLYBOY	948A	3	1	1	1	1	1	1
FP9	GLIDDEN	730C	3	1	1	1	1	1	1
Total			**97**	**15**	**14**	**14**	**13**	**13**	**12**

WQ1: P Trade Report

Reported For	Phillips Plating-Lund 9-3 3 fields 8yr
Printed	2021-10-14
Plan Completion/Update Date	2020-09-29
SnapPlus Version 20.4 built on 2021-06-03	
C:\SnapPlus2\MySnapPlusData\Lund\Lund NO F-12\PP Lund 9-3 8 yr No f-12.snapDb	

Prepared for:
Phillips Plating-Lund 9-3 3 fields 8yr
attn:Anders Lund

The P Trade Report estimates the annual pounds of phosphorus (P) in surface runoff from cropland entering surface waters. These P loss calculations are based on a field's soil test P concentration, crops, tillage, nutrient management practices and estimates of average runoff and sheet and rill erosion for the predominant soil type. Losses from concentrated flow channel or gully erosion with a field are not included in these calculations. Field runoff losses are calculated for each year as **PTP** (lb P/field/yr). Fields are only included if there are at least 2 years of crops before the selected start year. Before using this report as part of a Water Quality Trade activity, phosphorus losses (PTP) must be converted into 'P credits' according to DNR guidance.

For more information go to **http://dnr.wi.gov/** and type keyword: **Water Quality Trading**

Questions? Please contact DNRphosphorus@wisconsin.gov

This report was developed for Wisconsin DNR Water Quality Trading and Adaptive Management purposes and cannot be used to demonstrate compliance with NR 151 or NRCS 590 NM plan requirements.

P Trade Report				PTP										
Field Name	Soil Series	Soil Symbol	Acres	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
F13	FREEON	457B	2	32	42	13	2	1	1	1	1	0	0	0
F15	FREEON	457B	7	1	1	2	55	16	3	2	1	1	0	1
F16	MAGNOR	3456A	5	2	1	1	1	3	5	39	42	5	2	1
Total			**14**	**35**	**44**	**16**	**58**	**20**	**9**	**41**	**44**	**6**	**3**	**2**

PTP						
2023	2024	2025	2026	2027	2028	2029
0	0	0	0	0	0	0
1	1	1	0	0	0	0
1	1	1	1	1	1	1
2	**2**	**2**	**2**	**2**	**2**	**2**

WQ1: P Trade Report

Reported For	Phillips Plating-Lund 9-3 1yr 3 fields
Printed	2021-10-14
Plan Completion/Update Date	2020-09-29
SnapPlus Version 20.4 built on 2021-06-03	
C:\SnapPlus2\MySnapPlusData\Lund\Lund NO F-12\PP Lund 9-3 1 yr No F-12.snapDb	

Prepared for:
Phillips Plating-Lund 9-3 1yr 3 fields
attn:Anders Lund

The P Trade Report estimates the annual pounds of phosphorus (P) in surface runoff from cropland entering surface waters. These P loss calculations are based on a field's soil test P concentration, crops, tillage, nutrient management practices and estimates of average runoff and sheet and rill erosion for the predominant soil type. Losses from concentrated flow channel or gully erosion with a field are not included in these calculations. Field runoff losses are calculated for each year as **PTP** (lb P/field/yr). Fields are only included if there are at least 2 years of crops before the selected start year. Before using this report as part of a Water Quality Trade activity, phosphorus losses (PTP) must be converted into 'P credits' according to DNR guidance.

For more information go to **http://dnr.wi.gov/** and type keyword: **Water Quality Trading**

Questions? Please contact DNRphosphorus@wisconsin.gov

This report was developed for Wisconsin DNR Water Quality Trading and Adaptive Management purposes and cannot be used to demonstrate compliance with NR 151 or NRCS 590 NM plan requirements.

P Trade Report				PTP					
Field Name	Soil Series	Soil Symbol	Acres	2024	2025	2026	2027	2028	2029
F13	FREEON	457B	2	0	0	0	0	0	0
F15	FREEON	457B	7	1	1	0	0	0	0
F16	MAGNOR	3456A	5	1	1	1	1	1	1
Total			**14**	**2**	**2**	**2**	**2**	**2**	**2**

WQ1: P Trade Report

Reported For	Phillips Plating- Albert Norek 8yr
Printed	2021-10-14
Plan Completion/Update Date	2020-09-29
SnapPlus Version 20.4 built on 2021-06-03	
C:\SnapPlus2\MySnapPlusData\Albert Norek\PP Norek Albert 9-3 8 yr.snapDb	

Prepared for:
Phillips Plating- Albert Norek 8yr
attn:Albert Norek

The P Trade Report estimates the annual pounds of phosphorus (P) in surface runoff from cropland entering surface waters. These P loss calculations are based on a field's soil test P concentration, crops, tillage, nutrient management practices and estimates of average runoff and sheet and rill erosion for the predominant soil type. Losses from concentrated flow channel or gully erosion with a field are not included in these calculations. Field runoff losses are calculated for each year as **PTP** (lb P/field/yr). Fields are only included if there are at least 2 years of crops before the selected start year. Before using this report as part of a Water Quality Trade activity, phosphorus losses (PTP) must be converted into 'P credits' according to DNR guidance.

For more information go to **http://dnr.wi.gov/** and type keyword: **Water Quality Trading**

Questions? Please contact DNRphosphorus@wisconsin.gov

This report was developed for Wisconsin DNR Water Quality Trading and Adaptive Management purposes and cannot be used to demonstrate compliance with NR 151 or NRCS 590 NM plan requirements.

P Trade Report				PTP										
Field Name	Soil Series	Soil Symbol	Acres	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
F-18	BILLYBOY	948A	5	0	0	0	0	0	26	5	1	0	0	0
F-19	BILLYBOY	948A	3	0	0	0	0	23	5	1	0	0	0	0
F-20W	BILLYBOY	948A	1	0	0	4	1	0	0	0	0	0	0	0
F-21	BILLYBOY	948A	6	0	0	0	0	0	37	7	1	0	0	0
F-22	BILLYBOY	948A	1	0	0	0	0	0	0	0	0	0	0	0
F-23	BILLYBOY	948A	4	7	46	10	4	3	2	1	1	0	0	0

PTP						
2023	2024	2025	2026	2027	2028	2029
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	1	1	1	1

P Trade Report				PTP										
Field Name	Soil Series	Soil Symbol	Acres	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
F-24	BILLYBOY	948A	6	4	3	2	2	1	43	72	23	9	4	2
Total			**26**	**12**	**50**	**17**	**6**	**28**	**112**	**85**	**26**	**10**	**5**	**4**

PTP						
2023	2024	2025	2026	2027	2028	2029
2	2	1	1	1	1	1
3	**3**	**3**	**3**	**3**	**3**	**3**

WQ1: P Trade Report

Reported For	Phillips Plating- Albert Norek 1yr
Printed	2021-10-14
Plan Completion/Update Date	2020-09-29
SnapPlus Version 20.4 built on 2021-06-03	
C:\SnapPlus2\MySnapPlusData\Albert Norek\PP Norek Albert 9-3 1 yr.snapDb	

Prepared for:
Phillips Plating- Albert Norek 1yr
attn:Albert Norek

The P Trade Report estimates the annual pounds of phosphorus (P) in surface runoff from cropland entering surface waters. These P loss calculations are based on a field's soil test P concentration, crops, tillage, nutrient management practices and estimates of average runoff and sheet and rill erosion for the predominant soil type. Losses from concentrated flow channel or gully erosion with a field are not included in these calculations. Field runoff losses are calculated for each year as **PTP** (lb P/field/yr). Fields are only included if there are at least 2 years of crops before the selected start year. Before using this report as part of a Water Quality Trade activity, phosphorus losses (PTP) must be converted into 'P credits' according to DNR guidance.

For more information go to **http://dnr.wi.gov/** and type keyword: **Water Quality Trading**

Questions? Please contact DNRphosphorus@wisconsin.gov

This report was developed for Wisconsin DNR Water Quality Trading and Adaptive Management purposes and cannot be used to demonstrate compliance with NR 151 or NRCS 590 NM plan requirements.

P Trade Report				PTP					
Field Name	Soil Series	Soil Symbol	Acres	2024	2025	2026	2027	2028	2029
F-18	BILLYBOY	948A	5	0	0	0	0	0	0
F-19	BILLYBOY	948A	3	0	0	0	0	0	0
F-20W	BILLYBOY	948A	1	0	0	0	0	0	0
F-21	BILLYBOY	948A	6	0	0	0	0	0	0
F-22	BILLYBOY	948A	1	0	0	0	0	0	0
F-23	BILLYBOY	948A	4	0	0	1	1	1	1

P Trade Report				PTP					
Field Name	Soil Series	Soil Symbol	Acres	2024	2025	2026	2027	2028	2029
F-24	BILLYBOY	948A	6	2	1	1	1	1	1
Total			**26**	**3**	**3**	**3**	**3**	**3**	**3**

WQ1: P Trade Report

Reported For	Phillips Plating- Richard Norek 8yr
Printed	2021-10-14
Plan Completion/Update Date	2020-09-29
SnapPlus Version 20.4 built on 2021-06-03	
C:\SnapPlus2\MySnapPlusData\Richard Norek\PP Norek Richard 9-3 8 yr.snapDb	

Prepared for:
Phillips Plating- Richard Norek 8yr
attn:Richard Norek

The P Trade Report estimates the annual pounds of phosphorus (P) in surface runoff from cropland entering surface waters. These P loss calculations are based on a field's soil test P concentration, crops, tillage, nutrient management practices and estimates of average runoff and sheet and rill erosion for the predominant soil type. Losses from concentrated flow channel or gully erosion with a field are not included in these calculations. Field runoff losses are calculated for each year as **PTP** (lb P/field/yr). Fields are only included if there are at least 2 years of crops before the selected start year. Before using this report as part of a Water Quality Trade activity, phosphorus losses (PTP) must be converted into 'P credits' according to DNR guidance.

For more information go to **http://dnr.wi.gov/** and type keyword: **Water Quality Trading**

Questions? Please contact DNRphosphorus@wisconsin.gov

This report was developed for Wisconsin DNR Water Quality Trading and Adaptive Management purposes and cannot be used to demonstrate compliance with NR 151 or NRCS 590 NM plan requirements.

P Trade Report				PTP											
Field Name	Soil Series	Soil Symbol	Acres	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
F-20E	BILLYBOY	948A	4	0	0	0	21	4	2	2	1	0	0	0
Total			**4**	**0**	**0**	**0**	**21**	**4**	**2**	**2**	**1**	**0**	**0**	**0**

PTP						
2023	2024	2025	2026	2027	2028	2029
0	0	0	0	0	0	0
0	**0**	**0**	**0**	**0**	**0**	**0**

WQ1: P Trade Report

Reported For	Phillips Plating- Richard Norek 1yr
Printed	2021-10-14
Plan Completion/Update Date	2020-09-29
SnapPlus Version 20.4 built on 2021-06-03	
C:\SnapPlus2\MySnapPlusData\Richard Norek\PP Norek Richard 9-3 1 yr.snapDb	

Prepared for:
Phillips Plating- Richard Norek 1yr
attn:Richard Norek

The P Trade Report estimates the annual pounds of phosphorus (P) in surface runoff from cropland entering surface waters. These P loss calculations are based on a field's soil test P concentration, crops, tillage, nutrient management practices and estimates of average runoff and sheet and rill erosion for the predominant soil type. Losses from concentrated flow channel or gully erosion with a field are not included in these calculations. Field runoff losses are calculated for each year as **PTP** (lb P/field/yr). Fields are only included if there are at least 2 years of crops before the selected start year. Before using this report as part of a Water Quality Trade activity, phosphorus losses (PTP) must be converted into 'P credits' according to DNR guidance.

For more information go to **http://dnr.wi.gov/** and type keyword: **Water Quality Trading**

Questions? Please contact DNRphosphorus@wisconsin.gov

This report was developed for Wisconsin DNR Water Quality Trading and Adaptive Management purposes and cannot be used to demonstrate compliance with NR 151 or NRCS 590 NM plan requirements.

P Trade Report				PTP					
Field Name	Soil Series	Soil Symbol	Acres	2024	2025	2026	2027	2028	2029
F-20E	BILLYBOY	948A	4	0	0	0	0	0	0
Total			**4**	**0**	**0**	**0**	**0**	**0**	**0**

Attachment E: Water Quality Trading Checklist

State of Wisconsin
Department of Natural Resources
101 South Webster Street
Madison WI 53707-7921
dnr.wi.gov

Water Quality Trading Checklist

Form 3400-208 (1/14)

Notice: Pursuant to s. 283.84, Wis. Stats., this form must be completed by any WPDES permittee that intends to pursue pollutant trading as a method of complying with a permit limitation. Failure to complete this form would not result in penalties. Personal information collected will be used for administrative purposes and may be provided to requesters to the extent required by Wisconsin's Open Records Law (ss. 19.31 - 19.39, Wis. Stats.).

Applicant Information

Permittee Name	Permit Number	Facility Site Number
Phillips Plating Corporation	WI- 0041149	

Facility Address		City	State	ZIP Code
P.O. Box 72	715 339 3031	Phillips	WI	54555

Project Contact Name (if applicable)	Address	City	State	ZIP Code
Darin Baratka	P.O. Box 72	Phillips	WI	54555

Project Name
WWTP P Compliance: Non-point Ag Trade

Receiving Water Name	Parameter(s) being traded	HUC 12(s)
Elk Lake	Phosphorus	070500030107

Credit Generator Information

Credit generator type (select all that apply):

- ☐ Permitted Discharge (non-MS4CAFO)
- ☐ Permitted MS4
- ☐ Permitted CAFO
- ☐ Urban nonpoint source discharge
- ☒ Agricultural nonpoint source discharge
- ☐ Other - Specify:

Are any of the credit generators in a different HUC 12 than the applicant?
- ◉ Yes; HUC 12: 070500030106
- ○ No

Are any of the credit generators downstream of the applicant?
- ○ Yes
- ◉ No

Will a broker/exchange be used to facilitate trade?
- ○ Yes *(include description and contact information in WQT plan)*
- ◉ No

Point to Point Trades (Traditional Municipal / Industrial, MS4, CAFO)

Are each of the point source credit generators identified in this section in compliance with their WDPES permit requirements?
- ○ Yes
- ○ No

Discharge Type	Permit Number	Name	Contact Information	Trade Agreement Number
○ Traditional ○ MS4 ○ CAFO				
○ Traditional ○ MS4 ○ CAFO				
○ Traditional ○ MS4 ○ CAFO				
○ Traditional ○ MS4 ○ CAFO				
○ Traditional ○ MS4 ○ CAFO				

Point to Point Trades (Traditional Municipal / Industrial, MS4, CAFO) *cont.*

Does plan have a narrative that describes:			Plan Section
a. Summary of discharge and existing treatment including optimization	◯ Yes	◯ No	
b. Amount of credit being generated	◯ Yes	◯ No	
c. Timeline for credits and agreements	◯ Yes	◯ No	
d. Method for quantifying credits	◯ Yes	◯ No	
e. Tracking and verification procedures	◯ Yes	◯ No	
f. Location of credit generator in proximity to receiving water and credit user	◯ Yes	◯ No	
g. Other: _____	◯ Yes	◯ No	

Point to Nonpoint Trades (Non-Permitted Urban, Agricultural, Other)

Discharge Type	Practices Used to Generate Credits	Method of Quantification	Trade Agreement Number	Have the practice(s) been formally registered?
◯ Urban NPS ◉ Agricultural NPS ◯ Other	Conversion to perennial vegetation	SnapPlus & APLE-Lots	PP-001,PP-002, PP-003, & PP-004	◉ Yes ◯ No ◯ Only in part
◯ Urban NPS ◯ Agricultural NPS ◯ Other				◯ Yes ◯ No ◯ Only in part
◯ Urban NPS ◯ Agricultural NPS ◯ Other				◯ Yes ◯ No ◯ Only in part
◯ Urban NPS ◯ Agricultural NPS ◯ Other				◯ Yes ◯ No ◯ Only in part
◯ Urban NPS ◯ Agricultural NPS ◯ Other				◯ Yes ◯ No ◯ Only in part
◯ Urban NPS ◯ Agricultural NPS ◯ Other				◯ Yes ◯ No ◯ Only in part
◯ Urban NPS ◯ Agricultural NPS ◯ Other				◯ Yes ◯ No ◯ Only in part
◯ Urban NPS ◯ Agricultural NPS ◯ Other				◯ Yes ◯ No ◯ Only in part

Does plan have a narrative that describes:			Plan Section
a. Description of existing land uses	◉ Yes	◯ No	III
b. Management practices used to generate credits	◉ Yes	◯ No	III A-E
c. Amount of credit being generated	◉ Yes	◯ No	III G
d. Description of applicable trade ratio per agreement/management practice	◉ Yes	◯ No	III F
e. Location where credits will be generated	◉ Yes	◯ No	III
f. Timeline for credits and agreements	◉ Yes	◯ No	I & IV-A
g. Method for quantifying credits	◉ Yes	◯ No	I

Water Quality Trading Checklist

Form 3400-208 (1/14)

Does plan have a narrative that describes:			Plan Section
h. Tracking procedures	◉ Yes	○ No	IV
i. Conditions under which the management practices may be inspected	◉ Yes	○ No	IV-B
j. Reporting requirements should the management practice fail	◉ Yes	○ No	IV-B & C
k. Operation and maintenance plan for each management practice	○ Yes	○ No	IV-B
l. Location of credit generator in proximity to receiving water and credit user	◉ Yes	○ No	II-D
m. Practice registration documents, if available	◉ Yes	○ No	Attachment B
n. History of project site(s)	◉ Yes	○ No	II-B
o. Other: _____	○ Yes	○ No	

The preparer certifies all of the following:

- I am familiar with the specifications submitted for this application, and I believe all applicable items in this checklist have been addressed.
- I have completed this document to the best of my knowledge and have not excluded pertinent information.
- I certify that the information in this document is true to the best of my knowledge.

Signature of Preparer	Benzel Soil Services, LLC tcbenzel@centurytel.net 715 476 3845	Date Signed 11/29/21

Authorized Representative Signature

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision. Based on my inquiry of those persons directly responsible for gathering and entering the information, the information is, to the best of my knowledge and belief, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Signature of Authorized Representative	Date Signed

Water Quality Trading Checklist

Form 3400-208 (1/14)

Does plan have a narrative that describes:			Plan Section
h. Tracking procedures	◉ Yes	○ No	IV
i. Conditions under which the management practices may be inspected	◉ Yes	○ No	IV-B
j. Reporting requirements should the management practice fail	◉ Yes	○ No	IV-B & C
k. Operation and maintenance plan for each management practice	○ Yes	○ No	IV-B
l. Location of credit generator in proximity to receiving water and credit user	◉ Yes	○ No	II-D
m. Practice registration documents, if available	◉ Yes	○ No	Attachment B
n. History of project site(s)	◉ Yes	○ No	II-B
o. Other: _____	○ Yes	○ No	

The preparer certifies all of the following:

- I am familiar with the specifications submitted for this application, and I believe all applicable items in this checklist have been addressed.
- I have completed this document to the best of my knowledge and have not excluded pertinent information.
- I certify that the information in this document is true to the best of my knowledge.

Signature of Preparer	Benzel Soil Services, LLC tcbenzel@centurytel.net 715 476 3845	Date Signed 11/29/21

Authorized Representative Signature

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision. Based on my inquiry of those persons directly responsible for gathering and entering the information, the information is, to the best of my knowledge and belief, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Signature of Authorized Representative	Date Signed 2/23/22

Attachment F: APLE-Lots WI Beta
Support Documentation for Barnyard/DryLot Exercise/Feedlot Areas

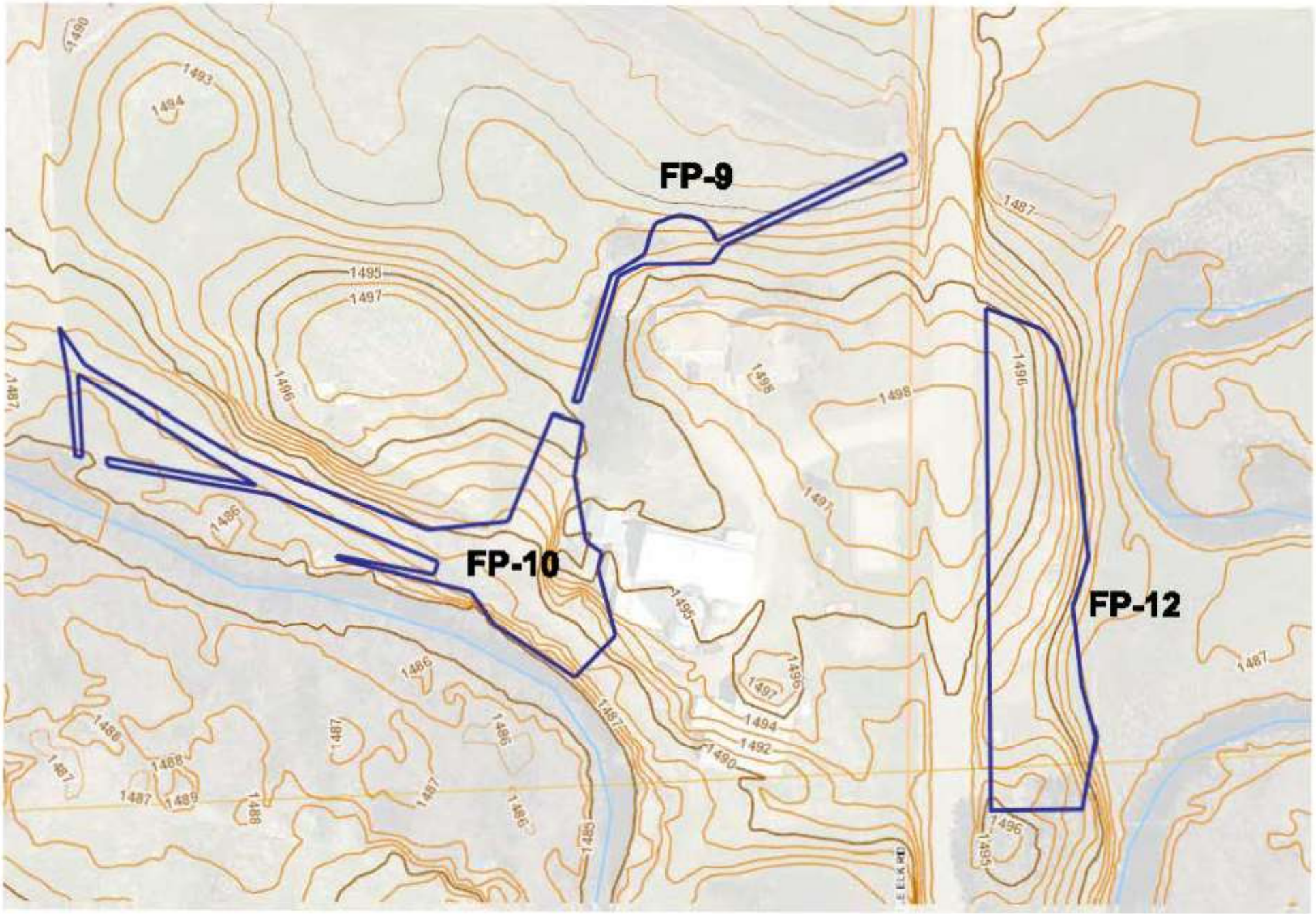
Foytik APLE-Lots Barnyard/Dry Lot Exercise/Feedlot Areas: Lots only.



Foytik APLE-Lots Barnyard/Dry Lot Exercise/Feedlot Areas: Lots and contributing areas.



Foytik APLE-Lots Barnyard/Dry Lot Exercise/Feedlot Areas: Lots with topo overlay.



Foytik APLE-Lots Barnyard/Dry Lot Exercise/Feedlot Areas: Lots with topo and aerial overlays.



Foytik FP-10 Runway: Input data and P loss.

APLE-Lots Average Annual Runoff Report

9/25/2020 5:56:51 AM

Project Name	Foytik	
Version Name	Sep 10	
Lot Name	FP-10 Runway	
County	Price	
Location	37N 1E s26	
Cover Type	dirt	
Area(sq.ft.)		11700
Date	9/25/2020	
% Vegetated		1
Average Days Between Cleaning		365

Contributing Area Name	Area	Type(CN) Type	Mitigation
Grass	17900	Grass(69)	FALSE
Land	12100	Farmstead(82)	FALSE
roof	4700	Roof(98)	FALSE

Animals

Month	Animal type/hours a day	Number	Manure dry matter produced in month(ton)
May	Dairy Lactating Cows 1200 lb/1 hrs	15	0.17
May	Dairy Dry Cows 1200 lb/1 hrs	3	0.02
May	Dairy Dry Cows 1400 lb/1 hrs	4	0.03
May	Dairy Lactating Cows 1400 lb/1 hrs	20	0.26
June	Dairy Lactating Cows 1200 lb/1 hrs	15	0.16
June	Dairy Lactating Cows 1400 lb/1 hrs	20	0.25
June	Dairy Dry Cows 1200 lb/1 hrs	3	0.02
June	Dairy Dry Cows 1400 lb/1 hrs	4	0.03
July	Dairy Dry Cows 1400 lb/1 hrs	4	0.03
July	Dairy Dry Cows 1200 lb/1 hrs	3	0.02
July	Dairy Lactating Cows 1200 lb/1 hrs	15	0.17
July	Dairy Lactating Cows 1400 lb/1 hrs	20	0.26
August	Dairy Dry Cows 1400 lb/1 hrs	4	0.03
August	Dairy Dry Cows 1200 lb/1 hrs	3	0.02
August	Dairy Lactating Cows 1200 lb/1 hrs	15	0.17
August	Dairy Lactating Cows 1400 lb/1 hrs	20	0.26
September	Dairy Dry Cows 1400 lb/1 hrs	4	0.03
September	Dairy Dry Cows 1200 lb/1 hrs	3	0.02
September	Dairy Lactating Cows 1200 lb/1 hrs	15	0.16
September	Dairy Lactating Cows 1400 lb/1 hrs	20	0.25
October	Dairy Dry Cows 1400 lb/1 hrs	4	0.03
October	Dairy Dry Cows 1200 lb/1 hrs	3	0.02
October	Dairy Lactating Cows 1200 lb/1 hrs	15	0.17
October	Dairy Lactating Cows 1400 lb/1 hrs	20	0.26
		Manure dry matter produced in year(ton):	2.8

Model results for FP-10Runway annual output

Runoff (in)	25.3
Sediment loss (ton)	13.9
Total P loss (lb)	73.1

APLE-Lots Average Annual Runoff Report
9/28/2020 7:41:51 PM

Project Name	8-19 BYWest FP-10Runway	
Version Name	post 9-29	
Lot Name	FP-10Runway	
County	Price	
Location	37N 1E s26	
Cover Type	dirt	
Area(sq.ft.)	11700	
Date	9/28/2020	
% Vegetated	100	
Average Days Between Cleaning	365	

Contributing Area Name	Area	Type(CN) Type	Mitigation
Grass	17900	Grass(69)	FALSE
Land	12100	Farmstead(82)	FALSE
roof	4700	Roof(98)	FALSE

Animals

Month	Animal type/hours a day	Number	Manure dry matter produced in month(ton)
June	Dairy Calf 150 lb/1 hrs	1	0
		Manure dry matter produced in year(ton):	0

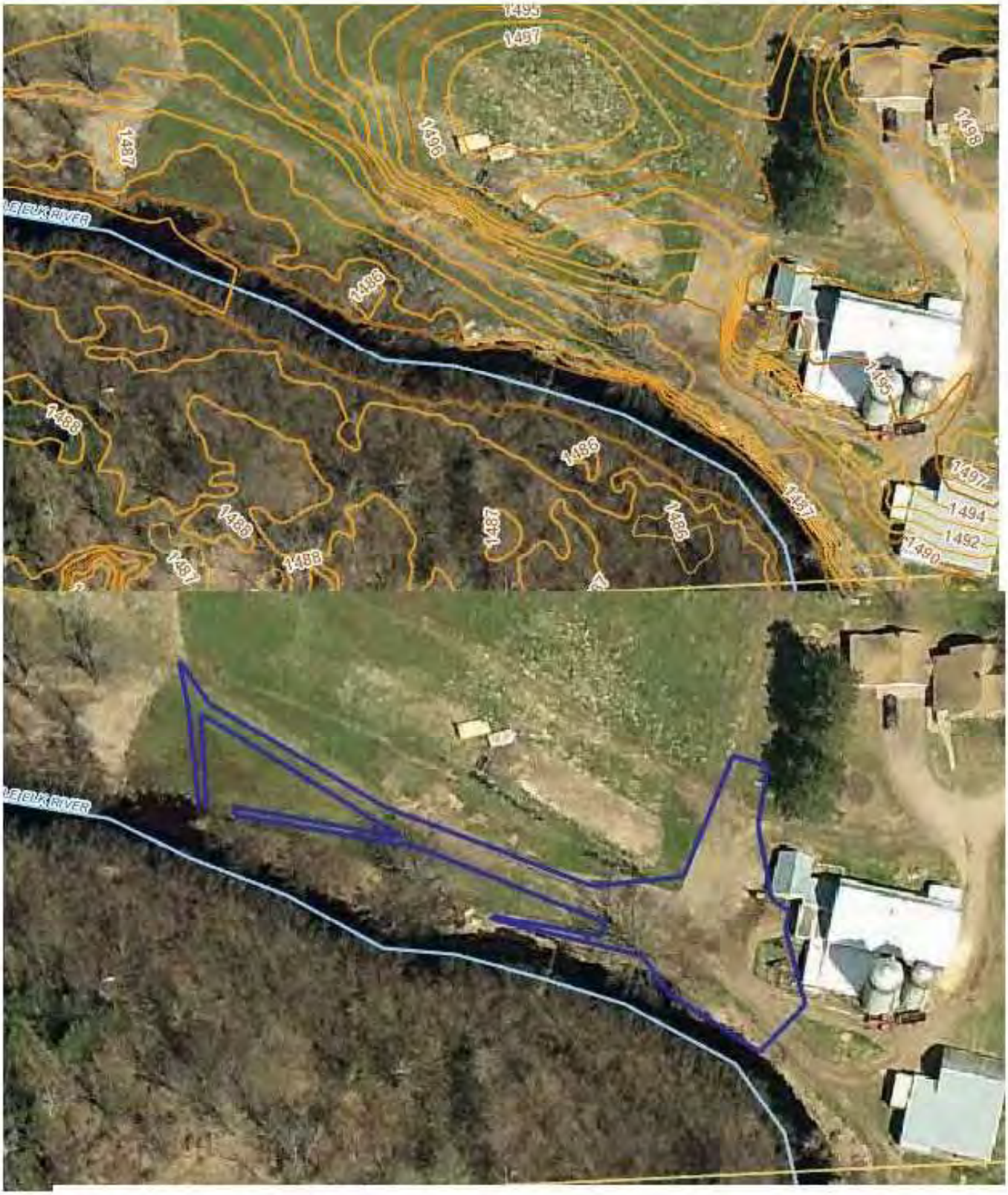
Model results for FP-10Runway annual output

Runoff (in)	9.1
Sediment loss (ton)	0.1
Total P loss (lb)	1.9

Foytik FP-10 Runway and contributing areas.



Foytik FP-10 Runway: 1 ft. contour lines



Foytik FP-10 Runway: Direct conduit flow channels, May



Foytik FP-10 Runway: Direct conduit flow channels, November

Foytik FP-10 Runway: Unvegetated conduits leading directly to water



Foytik FP-10 Runway: Unvegetated channelized barnyard conduits leading directly to water.

Foytik FP-10 Runway: Milk herd manure loading & spillage during season of no cattle occupancy time.







Foytik FP-10 Runway: Heifer herd manure loading & spillage during season of no cattle occupancy time.

Foytik FP-10 Runway: Direct conduit



Foytik FP-10 Runway: Eroded, washed gravel direct conduit


A


A
B
Little Elk River


B

FP-10 Runway: Contributing area delivering runoff to lot.



FP-10 Runway contributing area lane and drive.







Foytik FP-9 Lot: Input data and P loss.

APLE-Lots Average Annual Runoff Report

9/25/2020 5:58:08 AM

Project Name	Foytik
Version Name	Sep 10
Lot Name	FP-9 Lot
County	Price
Location	37N 1E s26

Cover Type	dirt	
Area(sq.ft.)		2000
Date	9/25/2020	
% Vegetated		1
Average Days Between Cleaning		365

Contributing Area Name	Area	Type(CN) Type	Mitigation
F9lot yard	15300	Grass(79)	FALSE
F9 Roof	2500	Roof(98)	FALSE

Animals

Month	Animal type/hours a day	Number	Manure dry matter produced in month(ton)
May	Dairy Dry Cows 1200 lb/1 hrs	3	0.02
May	Dairy Dry Cows 1400 lb/1 hrs	4	0.03
May	Dairy Lactating Cows 1400 lb/1 hrs	20	0.26
May	Dairy Lactating Cows 1200 lb/1 hrs	15	0.17
June	Dairy Lactating Cows 1200 lb/1 hrs	15	0.16
June	Dairy Lactating Cows 1400 lb/1 hrs	20	0.25
June	Dairy Dry Cows 1200 lb/1 hrs	3	0.02
June	Dairy Dry Cows 1400 lb/1 hrs	4	0.03
July	Dairy Dry Cows 1400 lb/1 hrs	4	0.03
July	Dairy Dry Cows 1200 lb/1 hrs	3	0.02
July	Dairy Lactating Cows 1200 lb/1 hrs	15	0.17
July	Dairy Lactating Cows 1400 lb/1 hrs	20	0.26
August	Dairy Dry Cows 1400 lb/1 hrs	4	0.03
August	Dairy Dry Cows 1200 lb/1 hrs	3	0.02
August	Dairy Lactating Cows 1200 lb/1 hrs	15	0.17
August	Dairy Lactating Cows 1400 lb/1 hrs	20	0.26
September	Dairy Dry Cows 1400 lb/1 hrs	4	0.03
September	Dairy Dry Cows 1200 lb/1 hrs	3	0.02
September	Dairy Lactating Cows 1200 lb/1 hrs	15	0.16
September	Dairy Lactating Cows 1400 lb/1 hrs	20	0.25
October	Dairy Dry Cows 1400 lb/1 hrs	4	0.03
October	Dairy Dry Cows 1200 lb/1 hrs	3	0.02
October	Dairy Lactating Cows 1200 lb/1 hrs	15	0.17
October	Dairy Lactating Cows 1400 lb/1 hrs	20	0.26
		Manure dry matter produced in year(ton):	2.8

Model results for FP-9 Lot annual output

Runoff (in)	60.7
Sediment loss (ton)	9.9
Total P loss (lb)	70.7

APLE-Lots Average Annual Runoff Report
9/28/2020 7:43:30 PM

Project Name	8-19 BYWest FP-10Runway				
Version Name	post 9-29				
Lot Name	FP-9 Lot				
County	Price				
Location	37N 1E s26				
Cover Type	dirt				
Area(sq.ft.)		2000			
Date	9/28/2020				
% Vegetated		100			
Average Days Between Cleaning		365			
Contributing Area			Type(CN)		
Name	Area		Type	Mitigation	
F9lot yard		15300	Grass(79)	FALSE	
F9 Roof		2500	Roof(98)	FALSE	
Animals					
				Manure dry matter	
Month	Animal type/hours a day		Number	produced in month(ton)	
June	Dairy Calf 150 lb/1 hrs		1		0
			Manure dry matter		
			produced in year(ton):		0

Model results for FP-9 Lot annual output

Runoff (in)	33.6
Sediment loss (ton)	0.1
Total P loss (lb)	0.7

Foytik FP-9 Lot and contributing areas.



Foytik FP-9 Lot and contributing areas.



Foytik FP-9 Lot and contributing areas.



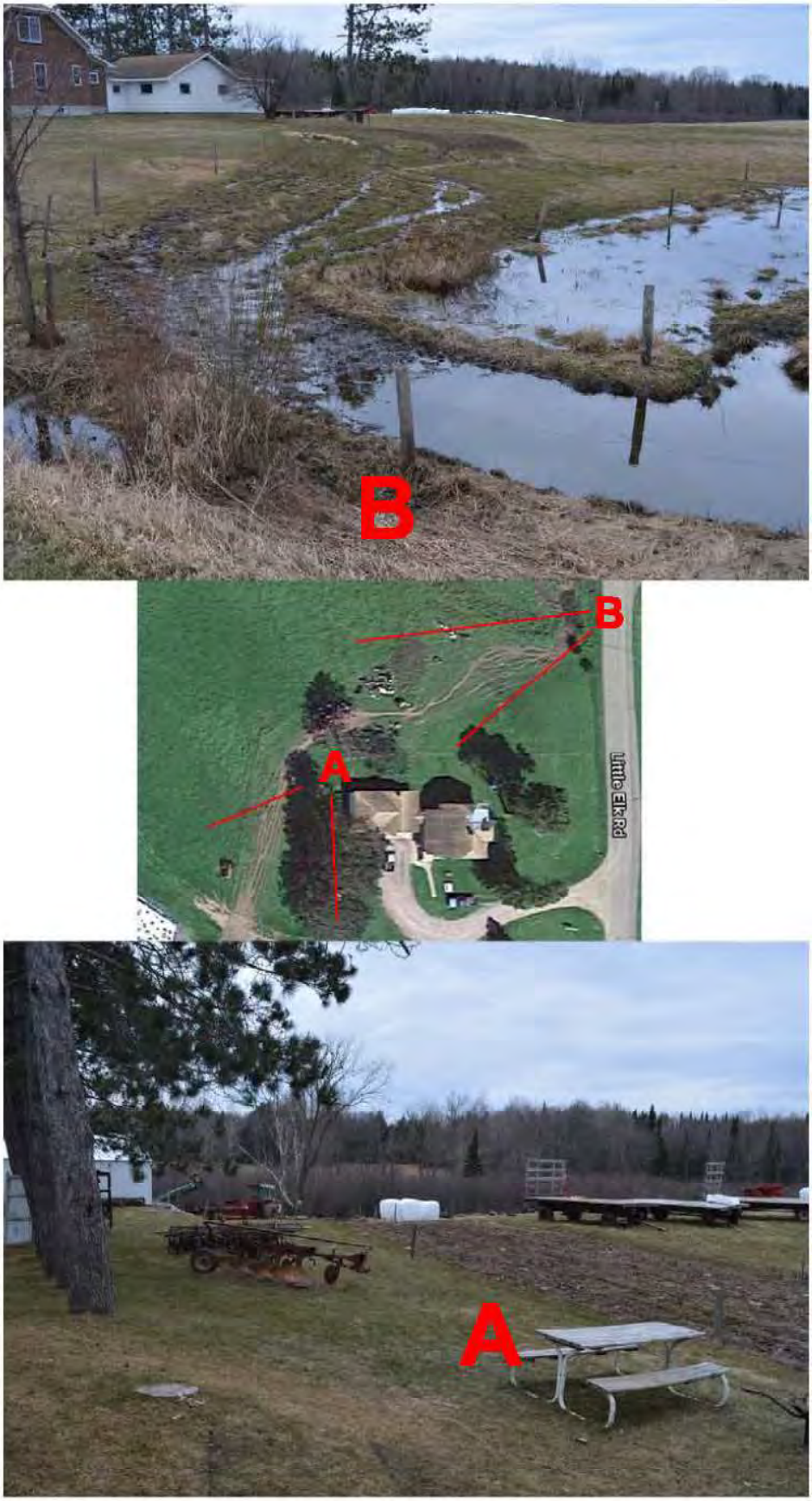
Foytik FP-9 Lot and contributing areas.





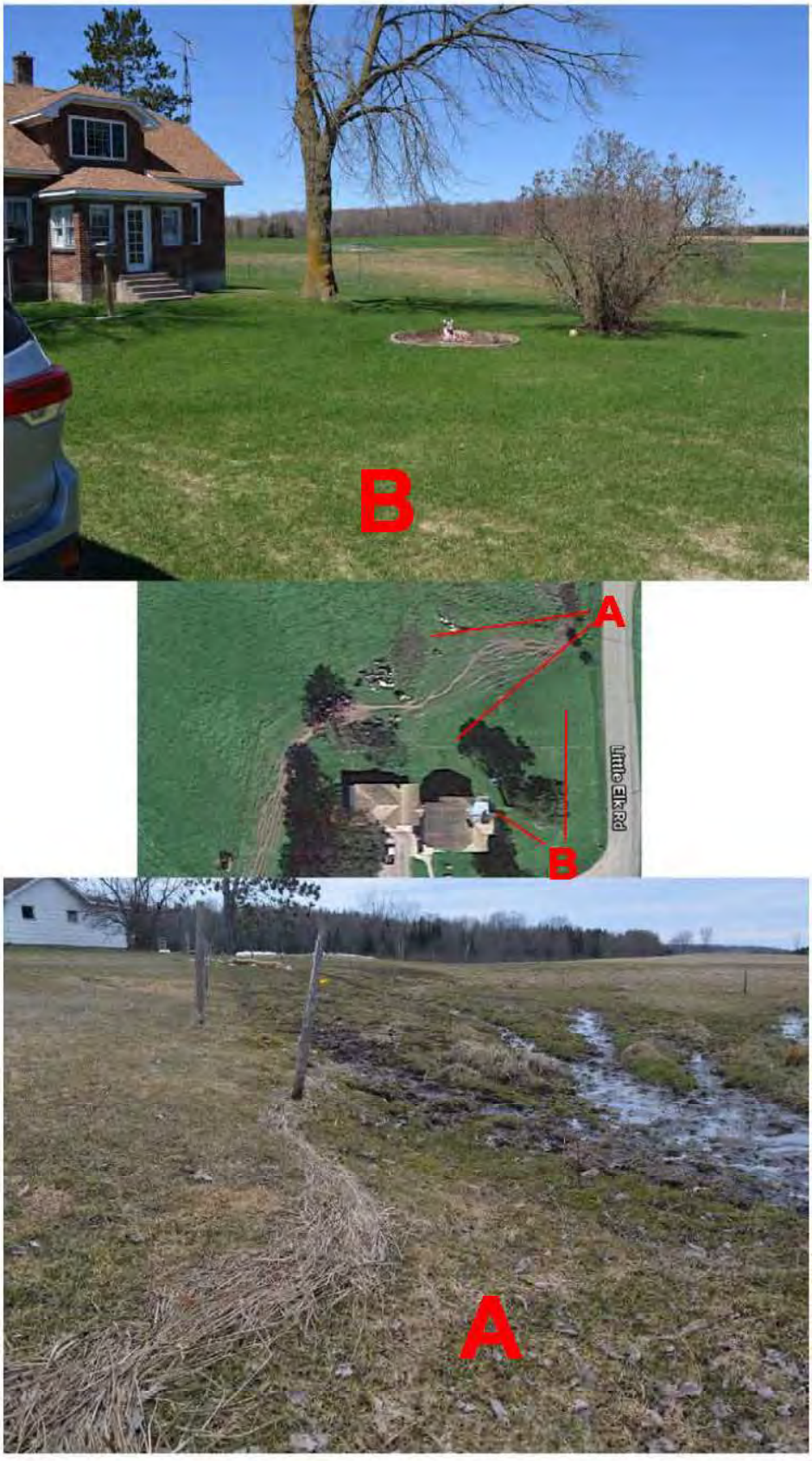


Foytik FP-9 Lot: Lower runway direct conduit.



Foytik FP-9 Lot: Upper runway bare soil to crest of contributing area.

Foytik FP-9 Lot: Contributing area.



Foytik F9-Lot: Lower runway, direct conduit, contributing are and inundation berm line.

Foytik FP-12 Lot Input data and P loss.

APLE-Lots Average Annual Runoff Report
9/25/2020 5:59:06 AM

Project Name	Fotik	
Version Name	Sep 10	
Lot Name	FP-12 Lot	
County	Price	
Location	37N 1E s26	
Cover Type	dirt	
Area(sq.ft.)		15800
Date	9/25/2020	
% Vegetated		1
Average Days Between Cleaning		365

Animals

Month	Animal type/hours a day	Number	Manure dry matter produced in month(ton)
May	Dairy Dry Cows 1400 lb/8 hrs	1	0.05
May	Dairy Heifer 1000 lb/8 hrs	11	0.48
May	Dairy Heifer 750 lb/8 hrs	10	0.33
May	Dairy Calf 150 lb/8 hrs	6	0.04
May	Dairy Calf 250 lb/8 hrs	6	0.08
June	Dairy Dry Cows 1400 lb/6 hrs	1	0.04
June	Dairy Heifer 1000 lb/6 hrs	11	0.35
June	Dairy Heifer 750 lb/6 hrs	10	0.24
June	Dairy Calf 150 lb/6 hrs	6	0.03
June	Dairy Calf 250 lb/6 hrs	6	0.05
July	Dairy Dry Cows 1400 lb/6 hrs	1	0.04
July	Dairy Heifer 1000 lb/6 hrs	11	0.36
July	Dairy Heifer 750 lb/6 hrs	10	0.25
July	Dairy Calf 150 lb/6 hrs	6	0.03
July	Dairy Calf 250 lb/6 hrs	6	0.06
August	Dairy Dry Cows 1400 lb/6 hrs	1	0.04
August	Dairy Heifer 1000 lb/6 hrs	11	0.36
August	Dairy Heifer 750 lb/6 hrs	10	0.25
August	Dairy Calf 150 lb/6 hrs	6	0.03
August	Dairy Calf 250 lb/6 hrs	6	0.06
September	Dairy Dry Cows 1400 lb/8 hrs	1	0.05
September	Dairy Heifer 1000 lb/8 hrs	11	0.46
September	Dairy Heifer 750 lb/8 hrs	10	0.32
September	Dairy Calf 150 lb/8 hrs	6	0.04
September	Dairy Calf 250 lb/8 hrs	6	0.07
October	Dairy Dry Cows 1400 lb/8 hrs	1	0.05
October	Dairy Heifer 1000 lb/8 hrs	11	0.48
October	Dairy Heifer 750 lb/8 hrs	10	0.33
October	Dairy Calf 150 lb/8 hrs	6	0.04
October	Dairy Calf 250 lb/6 hrs	6	0.06
		Manure dry matter produced in year(ton):	5.1

Model results for FP-12 Lot annual output

Runoff (in)	11.7
Sediment loss (ton)	5.4
Total P loss (lb)	25.7

APLE-Lots Average Annual Runoff Report
9/28/2020 7:44:46 PM

Project Name	8-19 BYWest FP-10Runway	
Version Name	post 9-29	
Lot Name	FP-12 Lot	
County	Price	
Location	37N 1E s26	
Cover Type	dirt	
Area(sq.ft.)		15800
Date	9/28/2020	
% Vegetated		100
Average Days Between Cleaning		365

Animals

Month	Animal type/hours a day	Number	Manure dry matter produced in month(ton)
June	Dairy Calf 150 lb/1 hrs	1	0
		Manure dry matter produced in year(ton):	0

Model results for FP-12 Lot annual output

Runoff (in)	2.1
Sediment loss (ton)	0
Total P loss (lb)	0.3

Foytik FP-12 Lot.



Foytik FP-12Lot: 1 ft. contour lines



Foytik FP-12 Lot: Over winter bare soil & spring inundation.



Foytik FP-12 Lot: Over winter bare soil & spring inundation.

Foytik FP-12 Lot: Over winter bare soil May 7, no cattle yet.







Foytik FP-12 Lot: Spring inundation, no cattle hours, over winter exposure vegetion on steep slope.







Foytik FP-12 Lot: Bare soil below inundation line, bares soil slopes in feeding area.

Foytik FP-9 Lot: Bare soil and inundation berm line.

