Wisconsin Department of Natural Resources Bureau of Watershed Management (WT/3) 101 S. Webster Street PO Box 7921 Madison, WI 53707-7921 dnr.wi.gov

Final Report

Agricultural Targeted Runoff Management & Notice of Discharge Grant Programs Form 3400-189A (R 05/16) Page 1 of 3

NOTICE: This document is required under s. 281.65, Wis. Stats., and chs. NR 153 and 154, Wis. Adm. Code. A final project report must be submitted as part of the final reimbursement request. Personally identifiable information contained in this form will be used for determining reimbursement eligibility in the Targeted Runoff Management and Notice of Discharge Grant Programs and will not be used for any other purpose.

INSTRUCTIONS: Send the completed, electronic copy of this form and all attachments to the Department of Natural Resources (DNR) Region Nonpoint Source Coordinator. Please read all instructions prior to completion.

| Grant Type | | |
|--------------------------------------|--------------------------------------|--|
| Select Grant Type Notice of Discha | arge | |
| Project Name & Location Project Name | 240 Sept. 186 | |
| Barnyard Runoff Control Project/I | Brad and Carol Anderson | |
| Grant Number | Gove | rnmental Unit Name |
| NOD27000Y16 | Jack | on County Land Conservation Department |
| County | Watershed Name | 12-Digit HUC |
| Jackson | Big and Douglas Cree | k 070400071206 |
| Project Contact Name | Phone Number | E-mail Address |
| Gaylord E. Olson II | (715) 284-02 | 17 Gaylord.OlsonII@co.jackson.wi.us |
| For a project with multiple site loc | ations, an aerial photo map is attac | ned with each site location labeled. |

| Site Location | on - 1 | | | | | | |
|------------------------------|------------------------|---|-------------|----------|--------------------|--------------------------------|----------------|
| Name of Cost-Share Recipient | | | | | Animal Units | Nearest Receiving Waterbody | |
| Carol and I | Bradley A | nderson | 接 | | 128 | Unnamed Trib. to t | he Black River |
| Township | Range | E/W | Section | Quarter | Quarter/Quarter | Latitude | Longitude |
| 19 | 06 | W | 23 | SE | SE | 44.102594 | -91.053388 |
| Compliance | e Require | ments - 1 | | | | | |
| | or 243 W Notice Typ | 3 Wis. Adm. Code Notice letter Compliance achieved? If no, Comp | | | Compliand lette | ce determination r attached | |
| NOI / NOI |) | | \boxtimes | • | Yes No | | \boxtimes |
| | E-020 | 1210 101 | 2.72 | 02 12 20 | Wilson Add Si Sini | 2 2 2 2 2 1 | 200 |

Attached is a copy of the written statement the County provided to the landowner and cost-share recipient of the landowner's obligation to maintain compliance with performance standards & prohibitions on cropland and livestock facilities addressed by the cost-share agreement. Compliance at these sites must be maintained in perpetuity regardless of future cost sharing. The County has also placed a copy of this written statement in the County files.

Wisconsin Department of Natural Resources Bureau of Watershed Management (WT/3) 101 S. Webster Street PO Box 7921 Madison, WI 53707-7921 dnr.wi.gov **Final Report**

Agricultural Targeted Runoff Management & Notice of Discharge Grant Programs

Form 3400-189A (R 05/16)

Page 2 of 3

| dnr.wi.gov | | | | 1 01111 0 100 10 | 071 (11 00/10) | | J |
|---|-------------------------------------|--------------------|--|-------------------------------|----------------------------|-------------------------------------|------------------------------|
| Summary of Results - 1 | | | | | | | |
| Best Management Practice Installed | Quantity | Unit of Measure | Performance Standard/Prohibition Addressed | Total Installation Cost | Lo Phosphorus lbs/yr | oad Reduction Nitrogen Ibs/yr | on Sedimen Tons/yr |
| Access Road | 150 | Feet | Code(s) 12 | \$6,000.00 | | | |
| Trail And Walkways | 200 | Feet | Code(s) 12 | \$10,000.00 | | | 34.2 |
| Barnyard Runoff Control Systems | - 1 | No. | Code(s) 12 | \$101,499.47 | 112.4 | | |
| Critical Area Stabilization | 1 | Acres | Code(s) 12 | \$7,500.00 | | | 58.8 |
| Diversions | 200 | Feet | Code(s) 8 | \$2,000.00 | | | |
| Heavy Use Area Protection | 1 | Acres | Code(s) 12 | \$14,400.00 | | | 58.8 |
| Livestock Fencing | 1,000 | Feet | Code(s) 12 | \$8,000.00 | | | |
| Livestock Watering Facilities | 3 | No. | Code(s) 12 | \$3,000.00 | | 6 | |
| Manure Storage Systems | 1 | No. | Code(s) 4 | \$32,500.00 | | | |
| Waterway Systems | 1 | Acres | Code(s) 8 | \$3,600.00 | | | 8.6 |
| Nutrient Management | 138 | Acres | Code(s) 9 | \$3,864.00 | | | |
| Site Location Attachment - 1 | | | | | | | |
| Check the box if the required information for | or the site is | attached: | | | | | |
| Photos of pre-and post-implementation | of BMP(s) | | Load reducti | on modeling o | documents | | |
| Aerial photo map of site with BMPs lab | eled | | Water qualit | y monitoring r | esults/summ | ary, if applic | able |
| Site Information - 1 | | | | | | | |
| Narrative space will expand to fit | attraction and automorphisms | Involve Western | | | =0. Subficilla. See | acress currents | O.Sherica and |
| The project site is a dairy facility for 12 | | | | | | | |
| bare earth uphill to the feed bunk area. | | | | | | | |
| There was no runoff containment at the | | | | | | | |
| adjacent to barn and young stock housi | | | | | | irth areas ai | nd feed |
| bunk went to a concentrated flow chan | | | | ary of the Bl | ack River. | | |
| The various BMPs installed corrected t | and the second second second second | | | | | W 81 | |
| The access road provided the ability for | | | | | | | |
| runoff control system to clean them wi | th equipme | nt. The tr | ails and walkway | provide the | cattle firm | footing to r | nove fron |
| the born to the feed bunk aliminating the | a constant | hara ant | h mud area decree | seing the coi | runoff The | a harnvard | runoff |

The access road provided the ability for the landowners to reach the short term manure storage system and barnyard runoff control system to clean them with equipment. The trails and walkway provide the cattle firm footing to move from the barn to the feed bunk eliminating the constant bare earth mud area decreasing the soil runoff. The barnyard runoff control system provided a better access to feed the dairy cattle and young stock while capturing all the manure generated by the cattle using the feed bunk. The young stock manure generated outside their shed is also captured. This manure is spread on the fields according to the Nutrient Management Plan. The critical area stabilization and heavy use area protection was utilized to reshape the bare earth side hill and other adjacent areas near the project site to decrease soil erosion while limiting the cattle to certain areas. The diversion was installed to redirect water from impacting the trails/walkways and the waterway system. Livestock fencing was installed to limit cattle access to the waterway crossing as well as installation around the barnyard runoff control system and cattle trails/walkways to direct cattle movement. The livestock watering facilities were needed to supply adequate water for the cattle while using the barnyard runoff control system and eliminate cattle traffic congestion around the dairy young stock facilities. The short-term manure storage system was installed to meet the current NRCS standards for runoff control since the vegetated treatment area criteria could not be achieved. The runoff from the site does not have a filter strip, instead is a total containment facility. The waterway system was installed to fix the gully that was at the base of the side hill where the cattle had unlimited access

Wisconsin Department of Natural Resources Bureau of Watershed Management (WT/3) 101 S. Webster Street PO Box 7921 Madison, WI 53707-7921 dnr.wi.gov

Final Report
Agricultural Targeted Runoff Management &
Notice of Discharge Grant Programs

Form 3400-189A (R 05/16)

Page 3 of 3

| along with other fertilizers and legume crediting. | ient plan was completed to provide direction on manuf | e management | | |
|---|--|---------------------|--|--|
| DNR may use this site as a success story to meet | state and federal reporting needs. | | | |
| | | | | |
| Additional Project Information and/or Comments | | | | |
| Narrative space will expand to fit | | | | |
| | | | | |
| Grantee Certification | | | | |
| ELECTRIC AND CONTROL AND | /) must authorize and date the final report form prior to subm | ittal to DNR. | | |
| I certify that, to the best of my knowledge, the project is correct and true. | s complete and the information contained in this final report a | and attachments are | | |
| Name of Authorized Government Official Title of Authorized Government Official Date | | | | |
| Gaylord E. Olson II | County Conservationist | 01/08/2018 | | |
| For DNR Use Only | | | | |
| Received complete reports with all attachments | Practices implemented were consistent with the gran | it agreement | | |
| Comments about this project: | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| Name of Region Nonpoint Source Coordinator | lui Date 1-19- | 18 | | |
| Send the Final Report and attachments to the Commu Grant Coordinator. Keep a printed copy for the Region | nity Financial Assistance Grants Manager and to the Runoff file. | Management | | |
| | | | | |

JACKSON COUNTY LAND CONSERVATION DEPARTMENT

307 Main Street, Courthouse Black River Falls, WI. 54615

Telephone: (715) 284-0256

Fax: (715) 284-0238

January 4, 2018

Carol and Bradley Anderson N985 Red School Road Melrose, WI 54642

Subject: NR 151 Performance Standards and Prohibitions
Jackson County Livestock and Animal Facility License 2017 – 231 – L

Dear Carol and Bradley,

Thank you for your most recent efforts to improve and protect our state's water resources. This letter is to acknowledge that you have successfully implemented nonpoint source pollution control best management practices on your farm under cost-share agreement NOD-JC-08-2016. Installing practices under this cost share agreement has brought you into compliance with performance standards and prohibitions as described in the table below.

| Standard/Prohibition | Description of Compliance Location |
|--|--|
| NR 151.07 Nutrient Management | Cropland acres described in the Nutrient Management Plan |
| NR 151.08 (3) Prohibition on unconfined manure in the Water Quality Management Area | T. 19 N., R. 6 W. Section 23, The Southeast Quarter of the Southeast Quarter |
| NR 151.08 (4) Prohibition on direct runoff from a feedlot or stored manure NR 151.08 (5) Prohibition on unlimited livestock access to waters of the state | T. 19 N., R. 6 W. Section 23, The Southeast Quarter of the Southeast Quarter |

In accordance with Ch. NR 151, Wis. Adm. Code, any cropland practice or livestock facility that is brought into compliance with a state performance standard or prohibition must remain in compliance in perpetuity regardless of future cost sharing. Since you are now deemed in compliance with state standards and prohibitions as identified above, it is required that you and any future landowners or operators maintain compliance with the standards and prohibitions at the parcels identified.

The site is licensed by the Jackson County Livestock and Animal Facility Licensing Ordinance for up to 128 animal units. If the site exceeds 1000 animal units in the next twelve months, from this date, the cost-share money will be repaid to Jackson County or the Wisconsin Department of Natural Resources as agreed to in the cost-share agreement signed in June 2016.

Compliance with the state and county performance standards listed in this letter and the cost-share agreement NOD-JC-08-2016 are required. Compliance with the Operations and Maintenance Plans listed as part of the designs in the Best Management Practices that were installed on your farm is also required.

The facilities and site must meet and maintain the following state and county environmental standards:

- a. No overflow of manure storage structures
- No unconfined manure stacking (piling) within the Water Quality Management Areas.
- c. No direct runoff from facilities or stored manure to the waters of the State.
- d. No unlimited livestock access to waters of the State where sod cover is compromised in the process and/or a pollution hazard is created by a concentration of livestock.

A site inspection by the Land Conservation Department will occur at least once every five years to monitor compliance with the ordinance.

If you have any further questions, please contact the Jackson County Land Conservation Department at 715.284.0217.

Sincerely,

on II

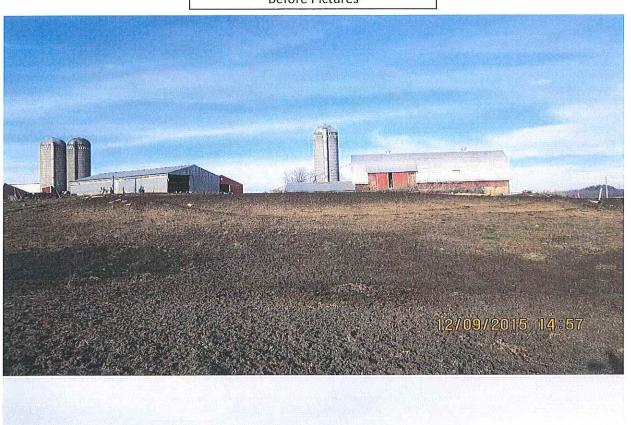
County Conservationist

Cc: Cindy Koperski - DNR Regional Coordinator

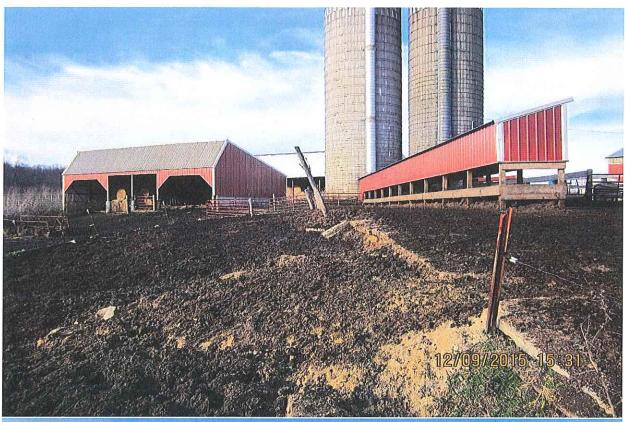
Brad and Carol Anderson

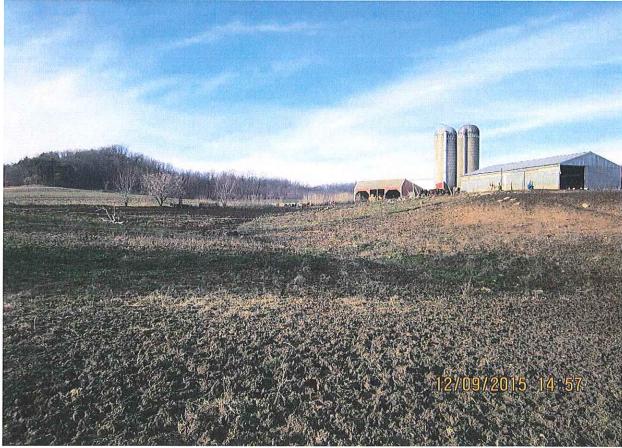
Notice of Discharge

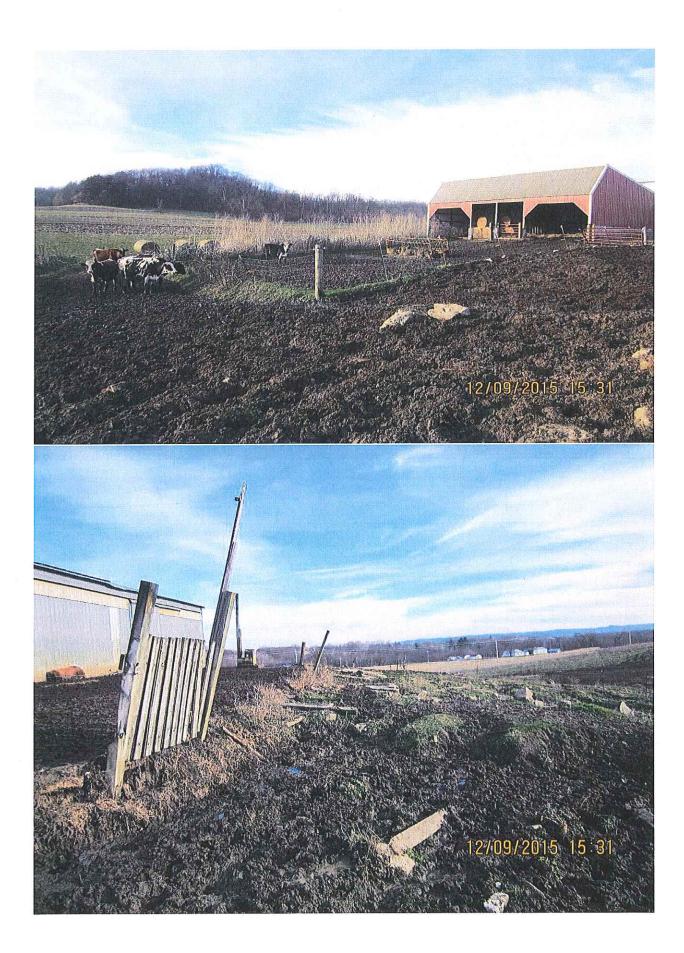
Before Pictures

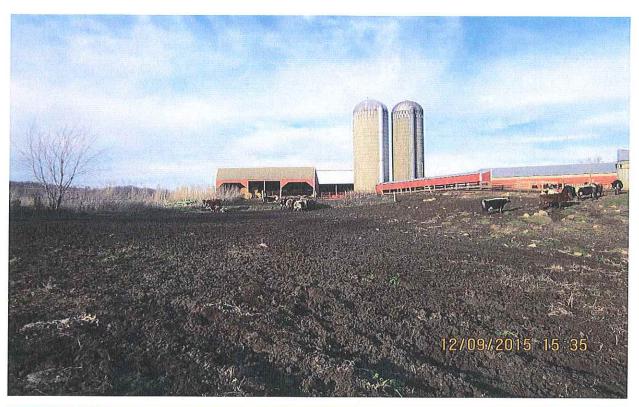


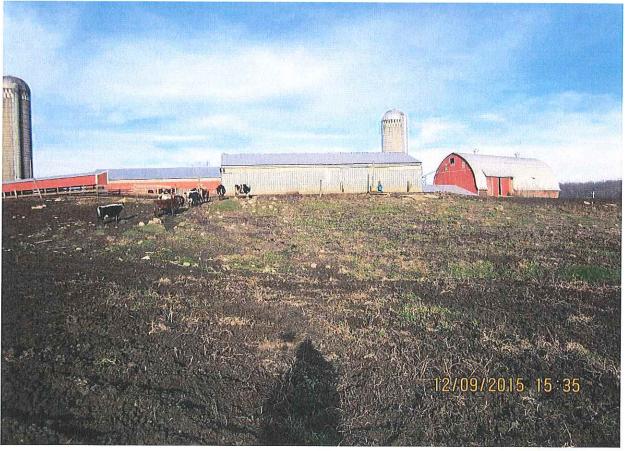




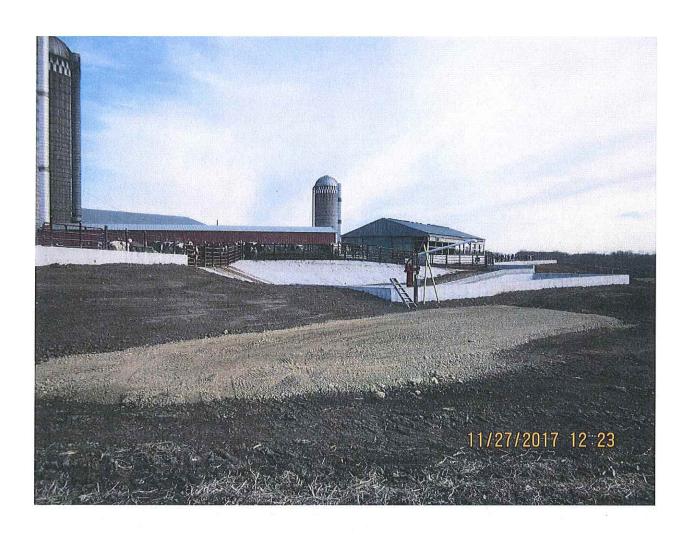


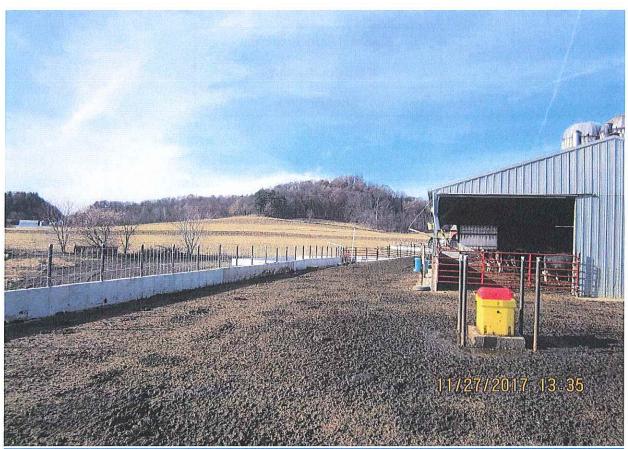


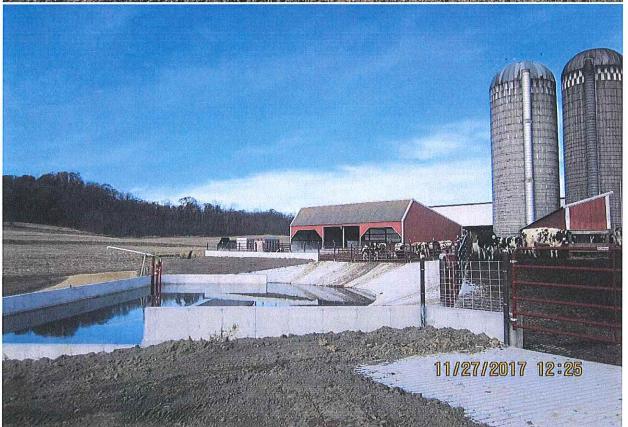


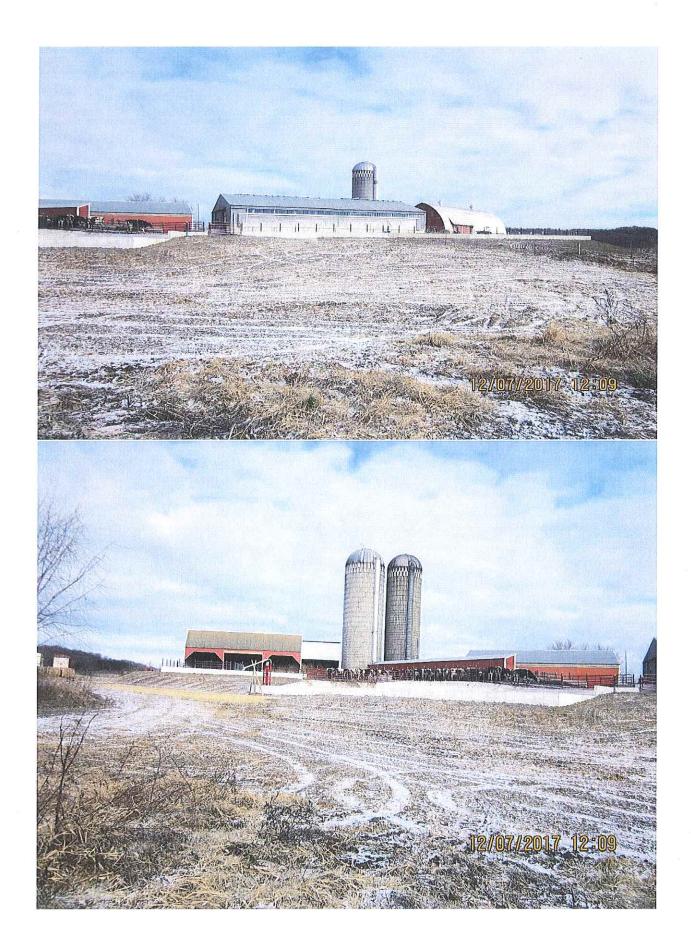


Brad and Carol Anderson Notice of Discharge After Pictures









- (3) Georged Waterways

 8 in 600' x 908/173 x 1/2" thich/42. = 8,6 700 Sail disa/42.

BUFFER DESIGN USING BARNY

| OWNER. Brad and Ca | arol Anderso | on L | CHK BY: | mg | | DATE: | 3/1/2016 |
|--|---|--------------------|---|--------------------------------------|--|--|--|
| | | Input | Output | H. Patther | Madison | D/(IL. | |
| | | | | | 2 Appleton | | |
| Closest City of simil | ar climate: | 4 | | | 3 Wausau | | |
| Pove | ed lot area: | 16,492 | | sq ft | Fau Claire | | |
| | th lot area: | 0,432 | | sq ft | | | |
| | al Lot size: | | 16,492 | | | | |
| Is there a DESIGNED se | ettling basin | 2 | | Yes= 1; No | o= 2 | | |
| | | | | S. SELVEN | | | |
| Animals on lot: Type of animal: | 50 n | number | 20 1 | number | (Dairy = 1; | Beef=2 | V The state of the |
| Ave. Animal Weight: | 1,400 lk | ns | 700 | lbs | (Daily - 1, | Deer-2 | , |
| Lot Use: | 1,100 1 | | | | 1= Heavy; 2= | Medium; 3= | = Light) |
| | | | | | | | |
| | | | | | | | |
| TRIBUTARY AREAS | | | | | | | |
| | utary area: | 0 | sq ft | | sq ft | | |
| Runoff Curve | | 0 | 04 11 | 5) | 04 11 | | |
| | | | | | | | |
| l l | Roof area: | 1,700 | sq ft | | | | |
| | | | | | | bs P per yea | |
| | | | | | d | t D.S. Lot ed | ige. |
| Particular of the Victoria | | | | | | | |
| Maximum permissible | e P Output | | lbs | Your choic | e based on im | pacted | |
| Maximum permissible that can be | | | lbs | | e based on imes- | pacted | |
| | | | lbs | | es- Max is 15 | | |
| that can be | e released | | lbs | | s- Max is 15 "c | " Value Table | |
| | e released | | lbs | | es- Max is 15 "c Permaner | " Value Table | 0.59 |
| that can be | e released | | | resource | es- Max is 15 "c Permaner Woods, H | " Value Table It Meadow eavy Litter | 0.59 0.59 |
| that can be | e released I and error Length: Slope: | | lbs ft (See Note | resource | es- Max is 15 "c Permaner Woods, H | " Value Table It Meadow eavy Litter ods, Lt Ltr | 0.59 |
| that can be BUFFERS - Size by trial | e released I and error Length: | | | resource | "c Permaner Woods, H | " Value Table It Meadow eavy Litter ods, Lt Ltr ed grazing | 0.59 0.59 0.29 0.44 0.29 |
| that can be BUFFERS - Size by trial | e released I and error Length: Slope: "c": | | ft (See Note | resource | Permaner Woods, H Wo Well manage Fair manage | " Value Table It Meadow eavy Litter ods, Lt Ltr ed grazing ed grazing od Pasture | 0.59 0.59 0.29 0.44 0.29 0.22 |
| BUFFERS - Size by trial First Buffer | e released I and error Length: Slope: "c": Length: | | | resource | Permaner Woods, H Wo Well manage Fair manage | " Value Table It Meadow eavy Litter ods, Lt Ltr ed grazing ed grazing od Pasture air Pasture | 0.59 0.59 0.29 0.44 0.29 0.22 0.15 |
| that can be BUFFERS - Size by trial | e released I and error Length: Slope: "c": Length: Slope: | | ft (See Note | resource | Permaner Woods, H Wo Well manage Fair manage | " Value Table at Meadow eavy Litter ods, Lt Ltr ed grazing ed grazing od Pasture air Pasture mall Grain | 0.59 0.59 0.29 0.44 0.29 0.22 0.15 0.29 |
| BUFFERS - Size by trial First Buffer | e released I and error Length: Slope: "c": Length: | | ft (See Note | resource | Permaner Woods, H Wo Well manage Fair manage | " Value Table It Meadow eavy Litter ods, Lt Ltr ed grazing ed grazing od Pasture air Pasture mall Grain Legume | 0.59 0.59 0.29 0.44 0.29 0.22 0.15 |
| BUFFERS - Size by trial First Buffer Second Buffer | e released I and error Length: Slope: "c": Length: Slope: "c": | | ft (See Note → ft | resource | Permaner Woods, H Wo Well manage Fair manage Good Fa | " Value Table It Meadow eavy Litter ods, Lt Ltr ed grazing ed grazing od Pasture air Pasture mall Grain Legume Row Crop | 0.59 0.59 0.29 0.44 0.29 0.22 0.15 0.29 0.29 |
| BUFFERS - Size by trial First Buffer Second Buffer P (lbs) after the | e released I and error Length: Slope: "c": Length: Slope: "c": | 112.4 | ft (See Note | resource | Permaner Woods, H Wo Well manage Fair manage Fa | " Value Table It Meadow eavy Litter ods, Lt Ltr ed grazing ed grazing od Pasture air Pasture mall Grain Legume Row Crop | 0.59 0.59 0.29 0.44 0.29 0.22 0.15 0.29 0.29 |
| BUFFERS - Size by trial First Buffer Second Buffer | e released I and error Length: Slope: "c": Length: Slope: "c": | 112.4 | ft (See Note → ft | resource | Permaner Woods, H Wo Well manage Fair manage Good Fa | " Value Table It Meadow eavy Litter ods, Lt Ltr ed grazing ed grazing od Pasture air Pasture mall Grain Legume Row Crop | 0.59 0.59 0.29 0.44 0.29 0.22 0.15 0.29 0.29 |
| BUFFERS - Size by trial First Buffer Second Buffer P (lbs) after the | e released I and error Length: Slope: "c": Length: Slope: "c": | 112.4 | ft (See Note → ft | resource e Below) er year | Permaner Woods, H Wo Well manage Fair manage Good Fa | " Value Table at Meadow eavy Litter ods, Lt Ltr ed grazing ed grazing od Pasture air Pasture mall Grain Legume Row Crop | 0.59 0.59 0.29 0.44 0.29 0.22 0.15 0.29 0.29 0.29 |
| BUFFERS - Size by trial First Buffer Second Buffer P (lbs) after the NO GOOD - | e released I and error Length: Slope: "c": Length: Slope: "c": buffers: Too much F | 112.4 Preleased | ft (See Note → ft Ibs P pe | resource e Below) er year | "contoured | " Value Table at Meadow eavy Litter ods, Lt Ltr ed grazing ed grazing od Pasture air Pasture mall Grain Legume Row Crop | 0.59 0.59 0.29 0.44 0.29 0.22 0.15 0.29 0.29 0.29 |
| BUFFERS - Size by trial First Buffer Second Buffer P (lbs) after the NO GOOD - | e released I and error Length: Slope: "c": Length: Slope: "c": buffers: Too much F | 112.4 Preleased | ft (See Note ft ft Ibs P pe | resource e Below) er year | "contoured | " Value Table at Meadow eavy Litter ods, Lt Ltr ed grazing ed grazing od Pasture air Pasture mall Grain Legume Row Crop d row crop | 0.59 0.59 0.29 0.44 0.29 0.22 0.15 0.29 0.29 0.05 |
| BUFFERS - Size by trial First Buffer Second Buffer P (lbs) after the NO GOOD - | e released I and error Length: Slope: "c": Length: Slope: "c": buffers: Too much F | 112.4 Preleased | ft (See Note ft ft Ibs P pe | resource e Below) er year | Permaner Woods, H Wo Well manage Fair manage Good Fa S Contoured Non-contoured | " Value Table at Meadow eavy Litter ods, Lt Ltr ed grazing ed grazing od Pasture air Pasture mall Grain Legume Row Crop d row crop | 0.59 0.59 0.29 0.44 0.29 0.22 0.15 0.29 0.29 0.05 |
| BUFFERS - Size by trial First Buffer Second Buffer P (lbs) after the NO GOOD - | e released I and error Length: Slope: "c": Length: Slope: "c": buffers: Too much F | 112.4 | ft (See Note ft ft Ibs P pe 24,738 feet 0 | resource e Below) er year sq ft feet | Permaner Woods, H Wo Well manage Fair manage Good Fa S Contoured Non-contoured Min. Acceptal | " Value Table at Meadow eavy Litter ods, Lt Ltr ed grazing ed grazing od Pasture air Pasture mall Grain Legume Row Crop d row crop | 0.59 0.59 0.29 0.44 0.29 0.22 0.15 0.29 0.29 0.05 |

| CLIENT: | Brad Ander | ASTE STOR | AGE FACILI | | - 313 S | TANDARD | | Ver. N | farch 201 |
|-----------------------------------|--|---------------------------------------|---------------------|--|--|--|-------------------|--|--|
| DSN BY | M.Goehring | 1 | | CHK BY: | JACKSON | | | DATE: | 4/21/1 |
| COMMENT | S: ZERO A | ISCHNRGE | FACTLET | E 80 St. 55.00 | - | ······································ | | DATE: | |
| ANIM | AL TYPE> | 1 | (1 = DAIR) | . 2=BEFF | 3=VFAI | A - CVA/INIE/E | STREET, P | SWINE(farrow | |
| | | | Marriagon (Chicago) | 6=POULTE | Y. O=OTI | 1 – 3 W IIVE(1) IFR) | nisning), 6= | SWINE(farrow | /ing), |
| or Dairy: | Rolling F | lerd Average | 10,000 | lbs/cow/yr | | | nchion barn? | | K |
| JANURE . | AND WASTE | * * * * * * * * * * * * * * * * * * * | 31 TO 12 TO 1 | | | .0 1, 0 5,6 | nemon paint | n J | (Y or N) |
| LIVEST | | AVG. WT. | | PUT, CU FT | 10.4 11 | DAYS OF | VOLUME I | ANIMAL | |
| KIND | NUMBER | PER HEAD | MANURE | BEDDING | TOTAL | STORAGE | REQUIRED | UNITS | |
| Cows Heifers | 50 | 1,400 | 1.69 | 0.0 | 84.5 | 5 | 423 | 70 | |
| Calves | 20 | 700 | 1.12 | 0.0 | 22.4 | 5 | 112 | 14 | |
| aives | | 350 | | _ | 1.4 | | | | |
| | | | _ | | | _ | 201,000 | | |
| | I WAST | EWATER: | | | | | | | |
| | WASI | i stati est per attendir. I | 0 | GAL/DAY | 0.0 | CU FT/DAY | John Burg Will | 84 7 | OT. A.U. |
| | - 10 M P 10 M | | TOTAL DAIL | Y VOLUME: | 107.0 | CU FT / DA | Υ | | <i>.</i> |
| | | | | | | | | 3,998 | GALLONS |
| | | | Even | atad 04 Hil- | Total M | anure and W | astewater | 535 C | |
| | | Additional to the second | Expe | cted % solids | in waste (Ind | cludes runoff | and precip.) | 1.2 | ક |
| | | 1 | RUNGEEVO | UME STORE | DEDEROVES | O (S Insp. X St. let) | | | - |
| NOFF V | DLUME (ENT | IRE DRAINAC | GE AREAL | SIVIE SILVRE | D BELOW I | HE MOL | alkeriyeda s | | |
| | MONTHLY R | UNOFF | ari di diga di da | | | | | | |
| | RCN | 90 | 0.90 (| N. XE | 18,192 | F40 D | | | |
| | L | | 12 | ΛL | | Ft2 Drainage | Area= | 1,366 C | U FT |
| | | Augusta 🕏 | | | | no not incit | ide waste sto | rage facility a | 'ea) |
| Year, 24 | -HOUR RUN | OFF F | RUNOFF VOL | UME STORE |) ABOVE TH | JE MOJ | | | |
| | RCN | 90 | 3.90 1 | | Carlo Company of the Company of the Company | t2 Drainage | Aran | F 000 0 | |
| | | | 12.00 | | The state of the s | | | 5,906 Cl prage facility a | JHI |
| TVS1XS six shirt removes | SUSSIBA SANGISI AND NO VICE CONTROL OF THE SANGIS AND NOTION OF THE SANGIS AND NO VICE CONTROL OF THE SAN | | | The second of th | | | | The same of the sa | rea) |
| OTEM/AS | ED / | V | OLUME SIG | RED BELOW | THE MOL | 31.050.200594 | NEWS WEST CONTROL | aksiliki anakseta enema | Constitution description |
| O LIVA | ER (from oth | ier sources) | | | 17,234 | SALLONS (fo | or entire | 2,304 GL | I FT |
| | | | | | s | torage perio | d) | | |
| CHATE | (OLUME | A 44 | | | | The same | | | |
| 4.504500 674420 954 | Length = [| Area #1 | _ | Area #2 | | Area #3 | | 0 CL | J FT |
| | Width = | | | 140 | | 13 | | en ernerer klande | |
| | Height = | | | | | | | | |
| | | | | 1-1 | 38 M St. | | | | |
| | | | | New State Company | Bedicos (Britis) | | | | |
| | | Total to | n B.H n.e. | | | A STATE OF THE STA | | 75,624 GA | LLONS |
| | | TOTAL TO | r ivianure, ivii | lking Center, | Runoff Volu | ime, and 25 | Yr Runoff | 10,110 CU | |
| CIPITATI | OW | Dasa z | Leggreson | 112 Constitution of the Co | | | house | | |
| | | D005 [| не гасину со | llect precipita | tion? (No n | oof or lid) | 1 (1 | for yes, 2 for | no) |
| recipitatio | on minus eva | inocation | BBQ | nning Month | for Precip. (| Sollection | 4 (1) | =Jan, 2=Feb | etc.) |
| 100 | | ge Precipitati | on on Stores | C | | | | | |
| | Average | a Evanoras | 04.011.910190 | e ourrace | | 2.9 IN | CH: | 0.2 FT | |
| | Avarage | Evaporation | TOTA STORAG | e Suntace | | 0,6 IN | CH | 0.1 FT | |
| A STATE OF SHIP STATE OF STATE OF | , and a company of the company of th | et Precinitati | unicon actorac | e sumaca 🔭 | we and the more with the day and the | 2.33110 | CHE, THE | 0.2/Fit | A CONTRACTOR OF THE PARTY OF TH |
| | | | | | | | | | |

| EMAINING WASTE | (If no sump, use these minimums: po | onds -2', tanks-1') | 0.0 FT |
|--|---|--|------------------------|
| XTRA DEPTH FOR SAFET | | (1-ft. Minimum) | 1.0 FT |
| <u>ETTLEMENT</u> | (5% of Em | bankment Height) | FT |
| n.o.l. DEPTH | (Depth to hold Manure, Wastewater, Ru | unoff, and Precip.) | 1.19 FT |
| | Total Depth of th | ne Storage Facility | 4.0 FT |
| TORAGE FACILITY ELEVA | ATIONS Settlement | Design Storage Vo Manure Produced p | |
| Extra Depth for 25 yr Precip. & | 25 yr Runoff Max. Operating Lev (M.O.L.) | ← ELEV 94.0 | |
| Manure and Wastewa Precip. Minus evapora Runoff Volume | tion Usable Volume below M.O Usable Depth below M.O | L. = 1.2 FT | 4.0 FT |
| Remaining was | Bottom of storage facility | ELEV 90. | <u>0</u> |
| TORAGE SIZING | IS STORAGE RECTANGULAR OR ROL | ND ? 1 (1 | Rectangular; 2= Round) |
| | SIDE SLOPES OF STO | RAGE 0.0:1 (L | se "0" for walls) |
| | CHOOSE A BOTTOM V | ADTH 45 FT | |
| | BOTTOM LE | NGTH REQUIRED | 94 FT |
| | ROUND STORAGE BOTTOM DIAM | VIETIER REQUIRED | N.A. ET |
| TORAGE SIZING SUMMA | RY | | |
| RECTANGULAR | BOTTOM SIDE 1: BOTTOM SIDE 2: M.O.L. VOLUME PROVIDED: | 45 FT 94 FT 5,015 GU FT | 37,513 GALLONS |
| TOTAL VOLUME F | DAYS STORAGE PROVIDED: ROM BOTTOM TO SETTLED TOP: | 5 DAYS 16,921 CU FT | |
| ROUND | CHOOSE BOTTOM: M.O.L. VOLUME PROVIDED: | N.A. FT DI O CU FT O DAYS | |
| TOTAL VOLUME F | DAYS STORAGE PROVIDED: ROM BOTTOM TO SETTLED TOP: | 0 CU FT | 0 GALLONS |