



**DEPARTMENT of AGRICULTURE
and NATURAL RESOURCES**

JOE FOSS BUILDING
523 E CAPITOL AVE
PIERRE SD 57501-3182
danr.sd.gov

May 29, 2025

Jeff Popham
TJ Farms, LLC
44440 168th Street
Henry, SD 57243-6114

Re: Revised Nutrient Management Plan (NMP)

Dear Mr. Popham:

The Department of Agriculture and Natural Resources (DANR) received your request to add the field listed in the following table to your approved nutrient management plan (NMP). Your existing NMP is part of your application for state permit coverage under the 2017 *General Water Pollution Control Permit for Concentrated Animal Feeding Operations* (general permit). Your animal feeding operation was originally approved on November 23, 2020. You received state permit coverage under the 2017 general permit on March 3, 2021 (**State Permit # SDG-100591**).

Table 1: Field Being Added to NMP

Line / Field #	County	Legal Description	Available Acres	Soil Sampling Requirements	
				0-2 feet	Additional
62	Codington	N 1/2 of NW 1/4, Sec. 7, T117N, R53W	45.0	Yes	Yes

Field 62 is not located within ¼ mile of a stream where Topeka shiners have been observed or have potentially occupied according to the U.S. Fish and Wildlife Service and is not identified as a winter or emergency manure application area.

Currently, *Fields 1, 2, 3, 5, 8, 9, 13, 17, 19, 20, 30, 31, 32, 36, 37, 38, and 42* are identified as potential winter or emergency manure application areas. The winter or emergency manure application maps identify the appropriate setbacks that need to be excluded from land application when the soil is saturated, snow-covered, or frozen and land application is absolutely necessary. Please refer to Section 1.4.4.1.i., beginning on page 31 of the general permit for the requirements for manure application on saturated, snow covered, or frozen soil. **You should notify the department and review the winter/emergency field maps prior to land applying during these soil conditions.**

We are approving the modifications and are including *Field 62* in your approved NMP. **Please put one copy of the approved field information in Appendix D of your copy of the permit.** You are required to comply with the terms and conditions of your permit.

You are also responsible for contacting the local planning and zoning office in the county where manure application will take place to determine if there are any local ordinances or requirements with which you need to comply.

Field 62 will require soil tests from 0 to 2 feet prior to manure application. *Field 62* is also identified as being located over a shallow aquifer and has additional soil testing requirements. **For these fields, you have elected to conduct the initial 0 to 2-foot soil test prior to land application and a second 0 to 2-foot soil test within four weeks after harvesting the crop.** Please refer to section 1.4.4.3., beginning on page 35 of the 2017 general permit for the annual nutrient management requirements.

As part of your annual nutrient management planning requirements, soil and manure tests must be analyzed by certified soil testing and manure testing labs. The laboratory analyzing the soil samples must be accredited by the **North American Proficiency Testing Programs' Proficiency Assessment Program** and the labs that are currently accredited are listed on the following website: <http://www.naptprogram.org/pap>. The laboratory analyzing the manure or process wastewater must be certified by the **Manure Testing Laboratory Certification Program** and the manure testing labs that are currently certified are listed on the following website: <http://www2.mda.state.mn.us/webapp/lis/manurelabs.jsp>.

If you or your crop consultant sends your soil or manure samples to a lab that is not listed on either of these websites, you and/or crop consultant may want to tell them that you need to use a certified lab so they can become certified.

You previously requested to have *Fields 53, 57, and 58* added to your NMP. However, a background phosphorus test for each of these fields has not been submitted. Before any of these fields can be included in your approved NMP, you must submit a representative 0 to 6-inch soil phosphorus test that is no older than two years to the department for our review and approval. **You cannot use *Field 53, 57, or 58* for the land application of manure or wastewater until the field has been included in your approved NMP.**

The land application sites must be located at least 100 feet from a private well owned by you if the top of the aquifer is 100 feet or more below the land surface, 150 feet from a private well owned by you if the top of the aquifer is less than 100 feet below the land surface, 250 feet from a private well not owned by you and 1,000 feet from any public supply well or other public drinking water source. These setback distances cannot be included as part of the land application acreage. Buffer zones are also required around any natural or manmade drainages or wetlands. Please review the buffer zone requirements on the land application maps included with the nutrient management plan in Appendix D of your permit prior to land applying manure.

TJ Farms, LLC
May 29, 2025
Page 3 of 3

If a mobile land application system using temporary piping will be used for the land application of liquid manure or process wastewater, the equipment must be equipped with an on-board radio controller and flow meter that can be overseen by the applicator. See Section 1.4.4.1.m. on page 30 of the 2017 general permit for more information on this requirement.

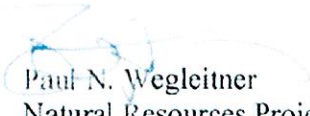
To add fields to your approved NMP, you must submit the required information for each additional field to the department for our review and approval. Information on adding fields to your approved NMP may be obtained from your local Natural Resources Conservation Service (NRCS) office. You may also contact us for assistance at (605) 773-4647, or visit our website at <https://danr.sd.gov/Agriculture/Livestock/FeedlotPermit/NutrientManagement/FieldAddition.aspx> for instructions on adding fields. **You may not apply manure to any fields not included in your approved NMP.**

If manure application will involve placing hoses or other equipment in a state highway right of way (for example, in a road ditch or through a culvert), you must first obtain a Permit to Occupy Right of Way. Application for this permit may be made through the local South Dakota Department of Transportation area office. Contact your local SD DOT area office for more information on this permit. In addition, please contact your county highway superintendent to determine if your county has similar requirements.

One copy of the field information is being retained for our files. The attached field list is an updated listing of the fields that are currently approved for manure or wastewater application. The attached map shows the location of each field. Please review this information and notify the department if any of the information is incorrect. If the enclosed field list and map are correct, please place them in your NMP.

If you have any questions regarding the content of this letter, please feel free to contact Keith Miller, Livestock Services Program, at (605) 882-5051. Thank you for your cooperation.

Sincerely,



Paul N. Wegleitner
Natural Resources Project Engineer
Livestock Services Program

cc: Ryan Russell, Vantage Point Solutions, Huron, SD (email)
Coudington County Commissioners
Luke Muller, FDALG, Watertown, SD

Enclosures: Field List and Field Map

TJ Farms, LLC Approved Field List

May 29, 2025

All fields require a 0 to 2-foot soil test prior to manure application. The fields identified as being located over a shallow aquifer are shaded in Table 1 below and have additional soil testing requirements. **For these fields, you have elected to conduct the initial 0 to 2-foot soil test prior to land application and a second 0 to 2-foot soil test within four weeks of harvesting the crop.** Please refer to section 1.4.4.3., beginning on page 35 of the 2017 general permit for the annual nutrient management requirements.

The fields listed in Table 1 below are approved for the land application of manure or process wastewater. **Before manure or wastewater can be applied to these fields, you must have a current soil test and use the table on page 34 of the 2017 general permit to determine whether the field fits into a nitrogen need, one-year phosphorus crop removal, five-year phosphorus crop removal, or no application category based on the current phosphorus level of the field and the predicted annual erosion.** Please refer to the table on page 34 and the annual nutrient management requirements beginning on page 35 of the 2017 general permit prior to the land application of manure to determine the proper procedure for calculating the appropriate application rate for each specific field.

Table 1 – TJ Farms, LLC Approved Nutrient Management Plan Fields

Line / Field #	Field Name	County	Legal Description	Acres		Soil Sampling	
				Total	Available	0-2'	Additional
1	Hofmeier	Codington	W 1/2 of NE 1/4 & W 25 ac of SE 1/4, Sec. 8, T117N, R54W	89.6	79.2	Yes	No
2	Klatt	Codington	N 1/2 & SE 1/4, Sec. 33, T117N, R54W	364.8	332.8	Yes	No
3	Klatt	Codington	E 1/2, Sec. 21, T117N, R54W	170.3	161.8	Yes	No
4	Klatt	Codington	SW 1/4, Sec. 34, T117N, R54W	100.7	77.0	Yes	No
5	Klatt	Codington	NW 1/4, Sec. 3, T116N, R54W	150.0	145.4	Yes	No
6	Wishard	Codington	NW 1/4 & W 1/2 of NE 1/4, Sec. 17, T117N, R54W	190.0	95.5	Yes	No
7	Wishard	Codington	SW 1/4, Sec. 16, T117N, R54W	49.1	23.8	Yes	No
8	Wunder	Codington	NW 1/4, Sec. 15, T117N, R54W	134.2	74.2	Yes	No
9	Wunder	Codington	NW 1/4, Sec. 13, T117N, R54W	137.5	119.4	Yes	Yes
11	Lone Star	Codington	N 1/2 & SW 1/4, Sec. 7, T118N, R52W	418.4	405.8	Yes	Yes
12	Henning 27	Codington	SW 1/4 & SW 1/4 of SE 1/4, Sec. 27, T118N, R55W	196.5	79.1	Yes	Yes
13	Henning 3	Codington	NE 1/4, Sec. 3, T116N, R55W	139.5	101.2	Yes	No
17	Hanten	Codington	NE 1/4, Sec. 12, T116N, R54W	138.9	137.1	Yes	Yes
18	Murphy	Codington	SE 1/4, Sec. 32, T117N, R54W	98.6	78.5	Yes	No

TJ Farms, LLC Approved Field List

May 29, 2025

Table 1 – TJ Farms, LLC Approved Nutrient Management Plan Fields

Line / Field #	Field Name	County	Legal Description	Acres		Soil Sampling	
				Total	Available	0-2'	Additional
19	Ellyson	Codington	NE 1/4, Sec. 28, T117N, R54W	148.9	144.6	Yes	No
20	Raderschadt	Codington	NW 1/4, Sec. 8, T117N, R54W	158.8	127.0	Yes	No
21	Purcell	Codington	S 1/2 of NW 1/4 & W 1/2 of SW 1/4, Sec. 36, T117N, R54W	134.7	117.8	Yes	Yes
22	Colt	Codington	N 1/2 of NW 1/4, SW 1/4 of NW 1/4 & NW 1/4 of NE 1/4, Sec. 17, T117N, R53W	99.5	73.1	Yes	Yes
23	Stromseth	Codington	SW 1/4 of SW 1/4 & W 1/2 of SE 1/4 of SW 1/4, Sec. 8, T117N, R53W	44.1	43.8	Yes	Yes
24	Doc Big Field	Codington	S 1/2 & S 1/2 of NW 1/4, Sec. 7, T117N, R53W	351.5	345.1	Yes	Yes
25	Red Barn	Codington	SW 1/4 & E 1/2 of NW 1/4 of NW 1/4, Sec. 6, T117N, R53W	76.3	68.3	Yes	Yes
26	N Mem Park	Codington	S 1/2 of NE 1/4 & N 1/2 of SE 1/4, Sec. 24, T117N, R54W	145.7	133.2	Yes	Yes
27	Engels	Codington	W 1/2 of SE 1/4, Sec. 18, T117N, R53W	77.0	74.3	Yes	Yes
28	Rileys	Codington	W 1/2 of SE 1/4, Sec. 8, T117N, R53W	76.5	61.4	Yes	Yes
30	Micks	Codington	S 1/2, Sec. 30, T117N, R55W	296.6	250.1	Yes	No
31	Section 15	Codington	NE 1/4, Sec. 15, T117N, R54W	104.4	77.8	Yes	No
32	Town Quarter	Codington	NW 1/4 & NW 1/4 of SW 1/4, Sec. 5, T116N, R55W	198.8	144.5	Yes	No
34	Kens	Codington	SW 1/4, Sec. 17, T117N, R55W	145.9	116.4	Yes	No
35	Murpheys	Codington	NW 1/4, Sec. 20, T117N, R55W	90.5	46.6	Yes	No
36	West Johnson	Codington	NW 1/4, Sec. 22, T117N, R55W	152.4	127.4	Yes	No
37	Heaths	Codington	NE 1/4, Sec. 31, T117N, R55W	155.7	138.8	Yes	No
38	Berns	Codington	NW 1/4, Sec. 32, T117N, R55W	146.0	102.1	Yes	No
40	Cemetery	Codington	W 1/2, Sec. 33, T117N, R55W	267.8	175.7	Yes	No
41	Home QTR	Codington	SW 1/4, Sec. 17, T117N, R54W	126.2	64.6	Yes	No
42	Kats	Codington	S 1/2 & S 1/2 of NW 1/4, Sec. 18, T117N, R54W	281.6	163.9	Yes	No

TJ Farms, LLC Approved Field List

May 29, 2025

Table 1 - TJ Farms, LLC Approved Nutrient Management Plan Fields

Line / Field #	Field Name	County	Legal Description	Acres		Soil Sampling	
				Total	Available	0-2'	Additional
43	Kogans	Codington	NE 1/4, Sec. 19 & NW 1/4, Sec. 20, T117N, R54W	225.0	143.2	Yes	No
45	Tommys	Codington	W 1/2, Sec. 22, T116N, R55W	272.2	190.0	Yes	No
46	George	Codington	NE 1/4, Sec. 23, T116N, R55W	144.7	95.1	Yes	No
49	J Henning HP	Codington	NE 1/4, N 1/2 of SE 1/4 & SW 1/4 of SE 1/4, Sec. 24, T117N, R55W	209.6	155.0	Yes	No
50	Steve EDS	Codington	SW 1/4 & S 1/3 of NW 1/4, Sec. 19, T117N, R54W	122.7	105.7	Yes	No
51	Borns NE	Codington	NW 1/4, Sec. 2, T116N, R55W	83.4	75.8	Yes	No
52	Borns SW	Codington	SW 1/4, Sec. 2, T116N, R55W	104.1	85.6	Yes	No
54	Esies	Codington	SE 1/4, Sec. 31, T117N, R54W	75.7	66.9	Yes	No
55	Hartley	Codington	E 1/2, Sec. 34, T118N, R55W	125.0	118.2	Yes	Yes
56	Greg Meyer	Codington	Sec. 21, T118N, R55W	191.3	187.3	Yes	Yes
59	Niles	Codington	NW 1/4 & NW 1/4 of NE 1/4, Sec. 18, T117N, R54W	85.2	64.2	Yes	No
60	York West	Codington	SE 1/4, Sec. 34, T117N, R55W	69.1	57.6	Yes	No
61	Steve North	Codington	N 2/3 of NW 1/4, Sec. 19, T117N, R54W	108.2	94.0	Yes	No
62	Luken	Codington	N 1/2 of NW 1/4, Sec. 7, T117N, R53W	55.0	45.0	Yes	Yes
Total Acres:				7,528.2	5,990.9		

Please note in your phosphorus-based NMP the estimated time it will take to build the listed fields up to 50 parts per million (ppm) (Olsen test) or 75 ppm (Bray-1 test) of phosphorus. You may need additional land in order to apply manure to your fields based on phosphorus crop removal at that time.

TJ Farms, LLC
Nutrient Management Plan Fields
May 2025

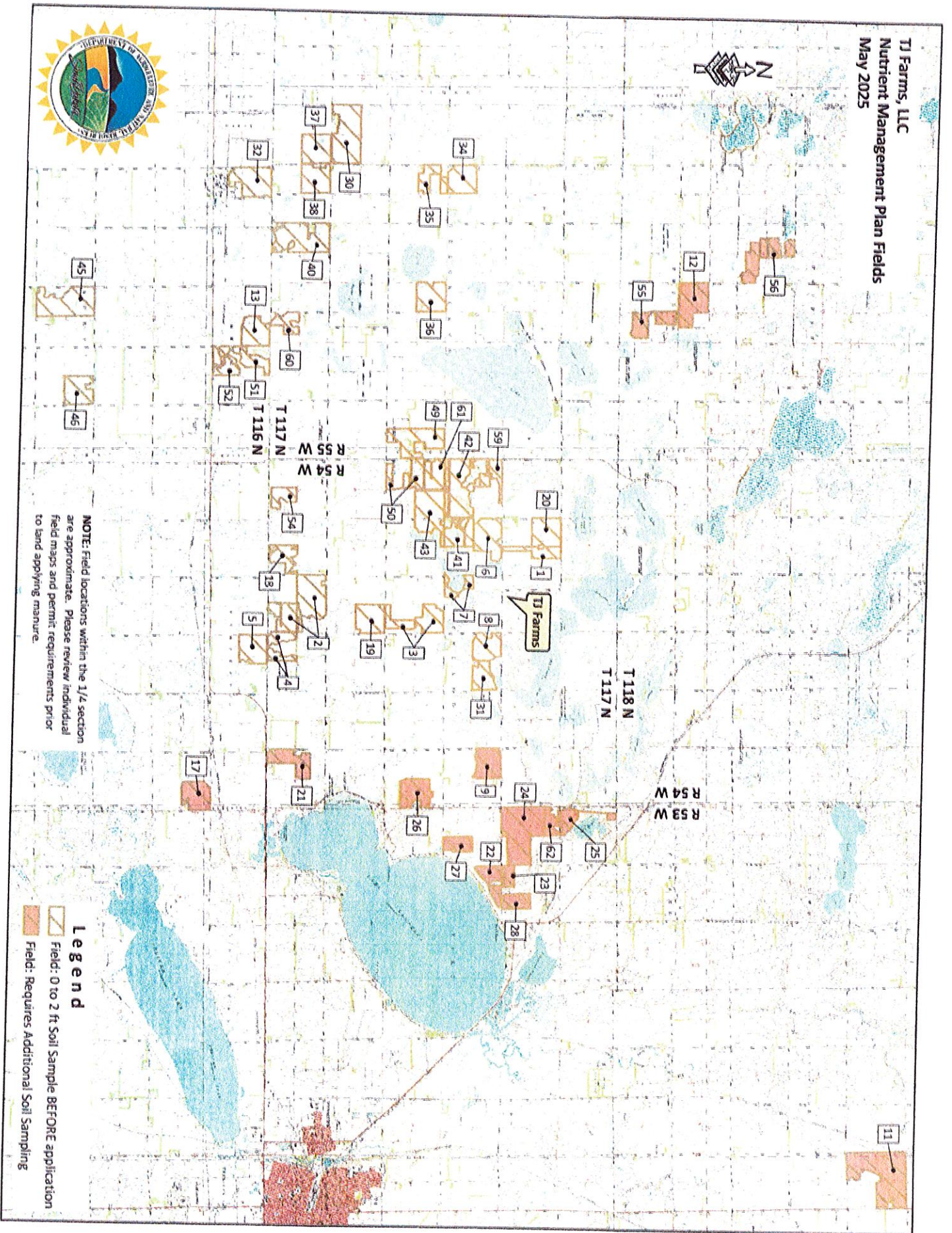


NOTE: Field locations within the 1/4 section are approximate. Please review individual field maps and permit requirements prior to land applying manure.

Legend

 Field: 0 to 2 ft Soil Sample BEFORE application

 Field: Requires Additional Soil Sampling



[illegible]

NUTRIENT MANAGEMENT PLAN
FOR
SOUTH DAKOTA ANIMAL FEEDING OPERATIONS

Field Information																												
Operator: TJ FARMS, LLC																												
County: Codington																												
Date: 04/08/25																												
17		18		19		20		21		22		23		24		25		26		27		28		29				
Line #	Field ID (Include maps to illustrate location)		Date added to Plan	Beginning acres in field	County	Soil map unit symbol	Field Location (Section, Township, Range)		(1/4	Predicted soil loss - Wind/Water (T/ac/yr)	Control of Land	100' Vegetated Buffer	Excluded acres	Irrigated	Winter Applications	No-Till	Current Soil Test Levels											
	N lb/ac						Phosphorus (ppm)										K (ppm)	Organic Matter	Soil PH	Electric Conductivity (EC)		Soil Sample Date						
	0-2'	2-4'					0-6"	P Test												Surface	Sub-surface							
	Name or Tract	Field #																										
1	Hofmeier	1	9/18/19	89.6	Codington	J141A	W 1/2 of NE	Sec. 8	T. 117	R. 54	0.4	Leased	10.4		X	X		2	Olsen	609	3.9%	7.0				10/09/19		
2	Klatt 33	2	9/18/19	364.8	Codington	J141A	N 1/2 & SE	Sec. 33	T. 117	R. 54	0.4	Leased	32.0		X	X		21	Brayl	230	4.5%	6.9				11/07/18		
3	Klatt 21	3	9/18/19	170.3	Codington	J124A	E 1/2	Sec. 21	T. 117	R. 54	0.5	Leased	8.5		X	X		26	Brayl	166	3.9%	6.9				11/05/19		
4	Klatt 34	4	9/18/19	100.7	Codington	J126B	SW 1/4	Sec. 34	T. 117	R. 54	1.0	Leased	23.7					22	Olsen	210	4.2%	7.3				11/19/18		
5	Klatt 33	5	9/18/19	150.0	Codington	J162B	NW 1/4	Sec. 3	T. 116	R. 54	1.2	Leased	4.6		X	X		11	Olsen	196	4.1%	7.4				10/31/19		
6	wishard	6	9/18/19	190.0	Codington	Z125B	N 1/2 & SE	Sec. 17	T. 117	R. 54	1.2	Leased	94.5					2	Olsen	195	4.3%	7.6				04/02/20		
7	wishard	7	9/18/19	49.1	Codington	Z142B	SW 1/4	Sec. 16	T. 117	R. 54	0.0	Leased	25.3					3	Olsen	304	4.8%	7.3				04/02/20		
8	wunder	8	9/18/19	134.2	Codington	Z142B	NW 1/4	Sec. 15	T. 117	R. 54	0.3	Leased	60.0		X	X		3	Olsen	173	2.9%	7.7				04/02/20		
9	wunder	9	9/18/19	137.5	Codington	J162B	NW 1/4	Sec. 13	T. 117	R. 54	1.2	Leased	18.1		X	X		8	Brayl	157	3.6%	6.8				04/02/20		
10								Sec. 1	T. 117	R. 54																		
11	lone star	11	9/18/19	418.4	Codington	J145A	N 1/2 & SW	Sec. 7	T. 118	R. 52	0.0	Leased	12.6					2	Olsen	201	4.9%	7.0				04/02/20		
12	Herning 27	12	8/3/23	196.5	Codington	Z152A	SW 1/4 & SE	Sec. 27	T. 118	R. 55	0.0	Leased	117.4					17	Brayl	471	6.4%	6.7				06/29/20		
13	Herning 3	13	8/3/23	139.5	Codington	J162B	NE 1/4	Sec. 3	T. 116	R. 55	1.2	Leased	38.3		X	X		16	Olsen	191	3.7%	7.1				11/27/19		
14								Sec. 1	T. 116	R. 55																		
15								Sec. 1	T. 116	R. 55																		
16								Sec. 1	T. 116	R. 55																		
17	Hansen	17	9/18/19	138.9	Codington	J162B	NE 1/4	Sec. 12	T. 116	R. 54	1.2	Leased	1.8		X	X		9	Olsen	232	3.8%	7.4				11/12/19		
18	Murphy	18	9/18/19	98.6	Codington	J162B	SE 1/4	Sec. 32	T. 117	R. 54	1.2	Leased	20.1					11	Olsen	193	4.3%	7.4				10/19/18		
19	Ellyson	19	9/18/19	148.9	Codington	J124A	NE 1/4	Sec. 28	T. 117	R. 54	0.5	Leased	4.3		X	X		13	Olsen	176	3.3%	7.0				11/05/19		
20	Raderschadt	20	6/15/23	158.8	Codington	J141A	NW 1/4	Sec. 8	T. 117	R. 54	0.4	Leased	31.8		X			19	Olsen	207	3.4%	7.1				12/16/21		
21	Purcell	21	5/30/23	134.7	Codington	J162B	SW 1/4 & NW 1/4	Sec. 36	T. 117	R. 54	1.2	Leased	16.9					35	Olsen	183	4.7%	7.3				11/29/22		
22	Colt	22	6/15/23	99.5	Codington	Z173B	N 1/2	Sec. 17	T. 117	R. 53	1.3	Leased	26.4					28	Brayl	115	5.6%	6.1				08/09/22		
23	Strometh	23	6/15/23	44.1	Codington	Z171A	SW 1/4	Sec. 8	T. 117	R. 53	0.3	Leased	0.3					77	Brayl	190	4.5%	6.3				09/09/22		
24	Doe Big Fld	24	6/15/23	351.5	Codington	Z181A	S 1/2 & SW 1/4	Sec. 7	T. 117	R. 53	0.2	Leased	6.4					21	Olsen	137	4.5%	7.5				09/12/22		
25	Red Barn	25	6/15/23	76.3	Codington	Z171A	W 1/2	Sec. 6	T. 117	R. 53	0.3	Leased	8.0					24	Olsen	169	4.4%	7.2				09/09/22		
26	N Men Park	26	6/19/23	145.7	Codington	J162C	SW 1/4 & SE 1/4	Sec. 24	T. 117	R. 54	1.4	Leased	12.5					3	Olsen	110	3.7%	7.9				09/30/22		
27	Engels	27	6/19/23	77.0	Codington	Z173B	W of SE	Sec. 18	T. 117	R. 53	1.3	Leased	2.7					35	Olsen	135	3.7%	7.5				09/30/22		
28	Rileys	28	6/19/23	76.5	Codington	Z173B	W of SE	Sec. 8	T. 117	R. 53	1.3	Leased	15.1					20	Brayl	89	4.6%	6.7				09/09/22		
29								Sec. 1	T. 117	R. 53																		
30	Micks	30	6/29/23	296.6	Codington	J162B	S 1/2	Sec. 30	T. 117	R. 55	0.6	Leased	46.5		X	X		57	21	Olsen	250	5.6%	7.3			12/07/22		

NUTRIENT MANAGEMENT PLAN
FOR
SOUTH DAKOTA ANIMAL FEEDING OPERATIONS

Field Information																													
Operator: TJ FARMS, LLC																	County: Codington					Date: 04/08/25							
Field #	Field ID (Include maps to illustrate location)		Date added to Plan	Beginning acres in field	County	Soil map unit symbol	Field Location: Section, Township, Range) (1/4				Predicted soil loss - Wind/Water (T/ac-yr)	Control of Land	100' Vegetated Buffer	Excluded acres	Irrigated	Water Application	No-Till	Current Soil Test Levels											
																		N lb/ac		Phosphorus (ppm)		K (ppm)	Organic Matter	Soil PH	Electric Conductivity (EC)		Soil Sample Date		
	0-2"	2-4"																0-6"	P Test	Surface	Sub-surface								
31	Section 15	31	6/29/23	104.4	Codington	Z142B	NE 1/4	Sec. 15	T. 117	R. 54	0.6	Leased	26.6		X	X		118	33	Olsen	382	5.9%	7.3						12/07/22
32	Town Quarter	32	6/29/23	198.8	Codington	J124A	NW 1/4	Sec. 5	T. 116	R. 55	0.3	Leased	54.3		X	X		60	22	Olsen	188	4.8%	7.4						11/03/22
33								Sec. 17	T. 117	R. 55																			
34	Keus	34	6/29/23	145.9	Codington	J162B	SW 1/4	Sec. 17	T. 117	R. 55	0.6	Leased	29.5					148	12	Olsen	166	5.3%	6.8						11/14/22
35	Murpheys	35	6/29/23	90.5	Codington	J162B	NW 1/4	Sec. 20	T. 117	R. 55	0.6	Leased	43.9					56	13	Olsen	256	5.9%	7.2						12/07/22
36	West Johnson	36	6/29/23	152.4	Codington	J164A	NW 1/4	Sec. 22	T. 117	R. 55	0.2	Leased	25.0		X	X		35	21	Olsen	235	4.9%	6.9						11/03/22
37	Heaths	37	6/29/23	155.7	Codington	J162B	NE 1/4	Sec. 31	T. 117	R. 55	0.6	Leased	16.9		X	X		41	8	Olsen	189	4.3%	7.5						11/07/22
38	Berns	38	6/29/23	146.0	Codington	J162B	NW 1/4	Sec. 32	T. 117	R. 55	0.6	Leased	43.9		X	X		46	18	Olsen	221	4.6%	7.4						11/07/22
39								Sec. 33	T. 117	R. 55																			
40	Cemetery	40	6/29/23	267.8	Codington	J162B	W 1/2	Sec. 33	T. 117	R. 55	0.6	Leased	92.1					89	14	Olsen	223	5.9%	7.5						11/03/22
41	Home QTR	41	6/29/23	126.2	Codington	Z142C	SW 1/4	Sec. 17	T. 117	R. 54	1.1	Leased	61.6					112	80	Olsen	629	6.9%	7.4						12/07/22
42	Kats	42	6/29/23	281.6	Codington	Z142C	S 1/2	Sec. 18	T. 117	R. 54	1.1	Leased	117.7		X	X		65	75	Olsen	507	6.7%	6.8						12/07/22
43	Kogans	43	6/29/23	225.0	Codington	Z125B	NE 1/4, NW 1/4	Sec. 19,20	T. 117	R. 54	0.6	Leased	81.8					42	10	Olsen	171	4.7%	7.3						11/14/22
44								Sec. 22	T. 116	R. 55																			
45	Tommys	45	6/29/23	272.2	Codington	J124A	W 1/2	Sec. 22	T. 116	R. 55	0.3	Leased	82.2					73	51	Olsen	186	5.0%	7.3						12/07/22
46	George	46	6/29/23	144.7	Codington	J162B	NE 1/4	Sec. 23	T. 116	R. 55	0.6	Leased	49.6					50	5	Olsen	193	5.6%	7.5						11/03/22
47								Sec. 24	T. 117	R. 55																			
48								Sec. 25	T. 117	R. 55																			
49	J Henning HP	49	8/3/23	209.6	Codington	Z131A	E 1/2	Sec. 24	T. 117	R. 55	0.2	Leased	54.6					132	72	Olsen	248	4.8%	7.2						12/09/23
50	STEVE EDS	50	3/12/24	122.7	Codington	Z142B	SW 1/4 & NW 1/4	Sec. 19	T. 117	R. 54	0.6	Leased	17.0					82	14	Olsen	184	3.8%	7.4						02/28/24
51	BORNS NE	51	3/8/24	83.4	Codington	J162B	NW 1/4	Sec. 2	T. 116	R. 55	0.6	Leased	7.6					150	19	Olsen	218	5.4%	7.5						10/28/22
52	BORNS SW	52	3/8/24	104.1	Codington	J162B	SW 1/4	Sec. 2	T. 116	R. 55	0.6	Leased	18.5					96	8	Olsen	114	4.4%	7.9						10/28/22
53	BERKLEYS	53	3/8/24	205.8	Codington	J141A	E1/2&SW1/4	Sec. 25	T. 117	R. 55	0.4	Leased	9.1																
54	ESTES	54	3/8/24	75.7	Codington	Z185B	SE 1/4	Sec. 31	T. 117	R. 54	0.7	Leased	8.8					9	13	Olsen	134	2.4%	7.0						10/28/22
55	HARTLEY	55	3/8/24	125.0	Codington	J162B	E 1/2	Sec. 34	T. 118	R. 53	0.6	Leased	6.8					49	11	Olsen	190	4.6%	7.1						11/08/23
56	GREG MEYER	56	3/8/24	191.3	Codington	Z125B	MID NW 1/4 & MID E	Sec. 21	T. 116	R. 55	0.6	Leased	4.0					28	20	Olsen	215	4.7%	6.8						10/28/22
57	YORK EAST	57	3/8/24	62.9	Codington	J162B	SW 1/4	Sec. 35	T. 117	R. 55	0.6	Leased	8.8																
58	NELSON	58	3/8/24	39.1	Codington	J162B	SE1/4&SE1/4	Sec. 35	T. 117	R. 55	0.6	Leased	1.3																
59	NILES	59	3/8/24	85.2	Codington	Z125B	NW&NE&NW&NE	Sec. 18	T. 117	R. 54	0.6	Leased	21.0					47	9	Olsen	186	3.8%	7.6						10/26/22
60	YORK WEST	60	3/8/24	69.1	Codington	J162B	SE 1/4	Sec. 34	T. 117	R. 55	0.6	Leased	11.5					39	10	Olsen	203	5.0%	7.2						10/28/22

NUTRIENT MANAGEMENT PLAN
FOR
SOUTH DAKOTA ANIMAL FEEDING OPERATIONS

Field Information																												
Operator: TJ FARMS, LLC																												
County: Codington																												
Date: 04/08/25																												
No. (1-100)	Field ID (Include maps to illustrate location)		Date added to Plan	Beginning acres in field	County	Soil map unit symbol	Field Location: Section, Township, Range (1/4)						Predicted soil loss - Wind/Water (T/ac/yr)	Control of Land	100' Vegetated Buffer	Excluded acres	Irrigated	Winter Application	No-Till	Current Soil Test Levels								Soil Sample Date
	Name or Tract	Field #					N lb/ac	Phosphorus (ppm)		K (ppm)	Organic Matter	Soil PH								Electric Conductivity (EC)								
								0-2'	2-4'											0-6"	P Test	Surface	Sub-surface					
61	STEVE NORTH	61	3/12/24	108.2	Codington	Z141A	N23s6NW	Sec. 19	T. 117	R. 54	0.2	Leased		14.2						60	11	Olsen	147	3.4%	7.3			02/28/24
62	LUKEN	62	4/9/25	55.0	Codington	Z181A	N68NW	Sec. 17	T. 117	R. 53	1.0	Leased		10.0					18	11.9	Olsen	125	4.2%	7.3			03/21/25	
63																												
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93																												
Total:			7,836.0																									
Comments:																												

NUTRIENT MANAGEMENT PLAN
FOR
SOUTH DAKOTA ANIMAL FEEDING OPERATIONS

Estimated Nutrient Requirement														
17			30											
No. Line	Field ID (Include maps to illustrate location) Name or Tract Field #		☐ Actual or Yield Goal ☒ Yields indexed by soil productivity (Productivity Index) ☐ County Average Yields (SD Agricultural Statistics Service)											
			Previous Year			Year 1			Year 2			Year 3		
			Crop	PI	Yield	Crop	PI	Yield	Crop	PI	Yield	Crop	PI	Yield
1	Hofmeier	1	Wheat (bu)	84		Soybean (bu)	51		Corn (bu)	192		Soybean (bu)	41	
2	Klatt 33	2	Corn (bu)	192		Soybean (bu)	51		Corn (bu)	192		Soybean (bu)	31	
3	Klatt 21	3	Corn (bu)	153		Soybean (bu)	41		Corn (bu)	133		Soybean (bu)	41	
4	Klatt 34	4	Soybean (bu)	48		Corn (bu)	181		Soybean (bu)	48		Corn (bu)	181	
5	Klatt 33	5	Soybean (bu)	47		Corn (bu)	173		Soybean (bu)	47		Corn (bu)	173	
6	wishard	6	Soybean (bu)	47		Corn (bu)	173		Soybean (bu)	47		Corn (bu)	173	
7	wishard	7	Grass (Ton)	2		Grass (Ton)	2		Grass (Ton)	2		Grass (Ton)	2	
8	wunder	8	Alf (T) >1 plant/sf	4		Alf (T) >1 plant/sf	4		Alf (T) >1 plant/sf	4		Alf (T) >1 plant/sf	4	
9	wunder	9	Corn (bu)	173		Soybean (bu)	47		Corn (bu)	173		Soybean (bu)	47	
10														
11	lone star	11	Grass (Ton)	2		Grass (Ton)	2		Grass (Ton)	2		Grass (Ton)	2	
12	Herring 27	12	Grass (Ton)	2		Grass (Ton)	2		Grass (Ton)	2		Grass (Ton)	2	
13	Herring 3	13	Corn (bu)	173		Soybean (bu)	47		Corn (bu)	173		Soybean (bu)	47	
14														
15														
16														
17	Hansen	17	Soybean (bu)	47		Corn (bu)	173		Soybean (bu)	47		Corn (bu)	173	
18	Murphy	18	Soybean (bu)	47		Corn (bu)	173		Soybean (bu)	47		Corn (bu)	173	
19	Ellyson	19	Soybean (bu)	41		Corn (bu)	133		Soybean (bu)	41		Corn (bu)	133	
20	Raderchadt	20	Corn (bu)	192		Soybean (bu)	51		Corn (bu)	192		Soybean (bu)	51	
21	Purcell	21	Corn (bu)	173		Soybean (bu)	47		Corn (bu)	173		Soybean (bu)	47	
22	Colt	22	Corn (bu)	73		Soybean (bu)	20		Corn (bu)	73		Soybean (bu)	20	
23	Stromstedt	23	Soybean (bu)	27		Corn (bu)	101		Soybean (bu)	27		Corn (bu)	101	
24	Doe Big Fld	24	Corn (bu)	183		Soybean (bu)	40		Corn (bu)	183		Soybean (bu)	40	
25	Red Barn	25	Soybean (bu)	27		Corn (bu)	101		Soybean (bu)	27		Corn (bu)	101	
26	N Mem Park	26	Corn (bu)	149		Soybean (bu)	40		Corn (bu)	149		Soybean (bu)	40	
27	Engels	27	Soybean (bu)	20		Corn (bu)	73		Soybean (bu)	20		Corn (bu)	73	
28	Ridley	28	Corn (bu)	73		Soybean (bu)	20		Corn (bu)	73		Soybean (bu)	20	
29														
30	Micks	30	Corn (bu)	173		Soybean (bu)	47		Corn (bu)	173		Soybean (bu)	47	

NUTRIENT MANAGEMENT PLAN
FOR
SOUTH DAKOTA ANIMAL FEEDING OPERATIONS

Estimated Nutrient Requirement																				
17			30																	
Line #	Field ID (Include maps to illustrate location)		☐ Actual or Yield Goal ☒ Yields Inferred by soil productivity (Productivity Index) ☐ County Average Yields (SD Agricultural Statistics Service)																	
			Previous Year			Year 1			Year 2			Year 3			Year 4			Year 5		
			Crop	PI	Yield	Crop	PI	Yield	Crop	PI	Yield	Crop	PI	Yield	Crop	PI	Yield	Crop	PI	Yield
31	Section 15	31	Corn (bu)		166	Soybean (bu)		44	Corn (bu)		166	Soybean (bu)		44	Corn (bu)		166	Soybean (bu)		44
32	Town Quarter	32	Corn (bu)		133	Soybean (bu)		41	Corn (bu)		133	Soybean (bu)		41	Corn (bu)		133	Soybean (bu)		41
33																				
34	Kens	34	Corn (bu)		173	Soybean (bu)		47	Corn (bu)		173	Soybean (bu)		47	Corn (bu)		173	Soybean (bu)		47
35	Murpheys	35	Soybean (bu)		47	Corn (bu)		173	Soybean (bu)		47	Corn (bu)		173	Soybean (bu)		47	Corn (bu)		173
36	West Johnson	36	Soybean (bu)		53	Corn (bu)		200	Soybean (bu)		53	Corn (bu)		200	Soybean (bu)		53	Corn (bu)		200
37	Heatha	37	Corn (bu)		173	Soybean (bu)		47	Corn (bu)		173	Soybean (bu)		47	Corn (bu)		173	Soybean (bu)		47
38	Berna	38	Corn (bu)		173	Soybean (bu)		47	Corn (bu)		173	Soybean (bu)		47	Corn (bu)		173	Soybean (bu)		47
39																				
40	Cemetery	40	Corn (bu)		173	Soybean (bu)		47	Corn (bu)		173	Soybean (bu)		47	Corn (bu)		173	Soybean (bu)		47
41	Home QTR	41	Soybean (bu)		36	Corn (bu)		136	Soybean (bu)		36	Corn (bu)		136	Soybean (bu)		36	Corn (bu)		136
42	Kats	42	Soybean (bu)		36	Corn (bu)		136	Soybean (bu)		36	Corn (bu)		136	Soybean (bu)		36	Corn (bu)		136
43	Kogans	43	Soybean (bu)		47	Corn (bu)		173	Soybean (bu)		47	Corn (bu)		173	Soybean (bu)		47	Corn (bu)		173
44									Corn (bu)			Soybean (bu)			Corn (bu)			Soybean (bu)		
45	Tommys	45	Corn (bu)		133	Soybean (bu)		41	Corn (bu)		133	Soybean (bu)		41	Corn (bu)		133	Soybean (bu)		41
46	George	46	Corn (bu)		173	Soybean (bu)		47	Corn (bu)		173	Soybean (bu)		47	Corn (bu)		173	Soybean (bu)		47
47																				
48																				
49	J Heming HP	49	Corn (bu)		190	Soybean (bu)		51	Corn (bu)		190	Soybean (bu)		51	Corn (bu)		190	Soybean (bu)		51
50	STEVE EDS	50	Corn (bu)		166	Soybean (bu)		44	Corn (bu)		166	Soybean (bu)		44	Corn (bu)		166	Soybean (bu)		44
51	BORNS NE	51	Soybean (bu)		47	Corn (bu)		173	Soybean (bu)		47	Corn (bu)		173	Soybean (bu)		47	Corn (bu)		173
52	BORNS SW	52	Corn (bu)		173	Soybean (bu)		47	Corn (bu)		173	Soybean (bu)		47	Corn (bu)		173	Soybean (bu)		47
53	BERKLEYS	53	Soybean (bu)		31	Corn (bu)		192	Soybean (bu)		31	Corn (bu)		192	Soybean (bu)		31	Corn (bu)		192
54	ESTES	54	Corn (bu)		116	Soybean (bu)		31	Corn (bu)		116	Soybean (bu)		31	Corn (bu)		116	Soybean (bu)		31
55	HARTLEY	55	Soybean (bu)		47	Corn (bu)		173	Soybean (bu)		47	Corn (bu)		173	Soybean (bu)		47	Corn (bu)		173
56	GREG MEYER	56	Corn (bu)		173	Soybean (bu)		47	Corn (bu)		173	Soybean (bu)		47	Corn (bu)		173	Soybean (bu)		47
57	YORK EAST	57	Soybean (bu)		47	Corn (bu)		173	Soybean (bu)		47	Corn (bu)		173	Soybean (bu)		47	Corn (bu)		173
58	NELSON	58	Corn (bu)		173	Soybean (bu)		47	Corn (bu)		173	Soybean (bu)		47	Corn (bu)		173	Soybean (bu)		47
59	NILES	59	Soybean (bu)		47	Corn (bu)		173	Soybean (bu)		47	Corn (bu)		173	Soybean (bu)		47	Corn (bu)		173
60	YORK WEST	60	Corn (bu)		173	Soybean (bu)		47	Corn (bu)		173	Soybean (bu)		47	Corn (bu)		173	Soybean (bu)		47

NUTRIENT MANAGEMENT PLAN
FOR
SOUTH DAKOTA ANIMAL FEEDING OPERATIONS

Estimated Nutrient Requirement																				
17.			30.																	
Field #	Field ID (Include maps to illustrate location)		☐ Actual or Yield Goal ☒ Yields indexed by soil productivity (Productivity Index) ☐ County Average Yields (SD Agricultural Statistics Service)																	
	Name or Tract	Field #	Previous Year			Year 1			Year 2			Year 3			Year 4			Year 5		
			Crop	PI Yield	Actual Yield	Crop	PI Yield	Yield Goal	Crop	PI Yield	Yield Goal	Crop	PI Yield	Yield Goal	Crop	PI Yield	Yield Goal	Crop	PI Yield	Yield Goal
61	STEVE NORTH	61	Soybean (bu)	80		Corn (bu)	183		Soybean (bu)	80		Corn (bu)	183		Soybean (bu)	80		Corn (bu)	183	
62	LUKEN	62	Corn (bu)	183		Soybean (bu)	49		Corn (bu)	183		Soybean (bu)	49		Corn (bu)	183		Soybean (bu)	49	
63																				
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NUTRIENT MANAGEMENT PLAN
FOR
SOUTH DAKOTA ANIMAL FEEDING OPERATIONS

Part 3: Planned Nutrient Application																		
Date: 04/08/25 Operator: County: Codington Date: 04/08/25																		
Field ID (Include maps to illustrate location)	Alternative crops for years 1 through 5	Initial Nutrient Mgt. Plan - N based fields (acres)	Nutrient Recommendation - SDSU Extension Service EC-750			Manure application based on	Phosphorus Risk Assessment	Nitrogen Risk Assessment	Nutrients Applied									Estimated years to reapplication based on P ₂ O ₅ rate
									Commercial lbs/acre			Manure lbs/acre			Total lbs/acre			
			N	P ₂ O ₅	K ₂ O				N	P ₂ O ₅	K ₂ O	N	P ₂ O ₅	K ₂ O	N	P ₂ O ₅	K ₂ O	
1	Hofstetzer 1	79.2	65	0		Nitrogen need	Low		0	0	0	0	0	0	0	0	N/A	
2	Klatt 33 2	332.8	0	0		Nitrogen need	Low		0	0	0	0	0	0	0	0	N/A	
3	Klatt 21 3	161.8	0	0		Nitrogen need	Low		0	0	0	0	0	0	0	0	N/A	
4	Klatt 34 4	77.0	0	0		Nitrogen need	Low		0	0	0	0	0	0	0	0	N/A	
5	Klatt 33 5	145.4	38	0		Nitrogen need	Low		0	0	0	0	0	0	0	0	N/A	
6	wishard 6	95.5	107	0		Nitrogen need	Low		0	0	0	0	0	0	0	0	N/A	
7	wishard 7	23.8	69	0		Nitrogen need	Low		0	0	0	0	0	0	0	0	N/A	
8	wunder 8	74.2	60	0		Nitrogen need	Low		0	0	0	0	0	0	0	0	N/A	
9	wunder 9	119.4	31	0		Nitrogen need	Low		0	0	0	0	0	0	0	0	N/A	
10									0	0	0	0	0	0	0	0		
11	lone star 11	405.8	76	0		Nitrogen need	Low		0	0	0	0	0	0	0	0	N/A	
12	Henning 27 12	79.1	5	0		Nitrogen need	Low		0	0	0	0	0	0	0	0	N/A	
13	Henning 3 13	101.2	0	0		Nitrogen need	Low		0	0	0	0	0	0	0	0	N/A	
14									0	0	0	0	0	0	0	0		
15									0	0	0	0	0	0	0	0		
16									0	0	0	0	0	0	0	0		
17	Hanzen 17	137.1	53	0		Nitrogen need	Low		0	0	0	0	0	0	0	0	N/A	
18	Murphy 18	78.5	38	0		Nitrogen need	Low		0	0	0	0	0	0	0	0	N/A	
19	Ellyson 19	144.6	20	0		Nitrogen need	Low		0	0	0	0	0	0	0	0	N/A	
20	Raderschadt 20	127.0	0	0		Nitrogen need	Low		0	0	0	0	0	0	0	0	N/A	
21	Purcell 21	117.8	0	0		Nitrogen need	Low		0	0	0	0	0	0	0	0	N/A	
22	Colt 22	73.1	0	3		Nitrogen need	Low		0	0	0	0	0	0	0	0	N/A	
23	Stromsedh 23	43.8	0	0		5 Yr P Removal	Moderate		0	0	0	0	0	0	0	0	0	
24	Doe Big Fld 24	345.1	0	0		Nitrogen need	Low		0	0	0	0	0	0	0	0	N/A	
25	Red Barn 25	68.3	0	0		Nitrogen need	Low		0	0	0	0	0	0	0	0	N/A	
26	N Mem. Park 26	133.2	45	9		Nitrogen need	Low		0	0	0	0	0	0	0	0	N/A	
27	Engels 27	74.3	0	60		Nitrogen need	Low		0	0	0	0	0	0	0	0	N/A	
28	Rileys 28	61.4	0	12		Nitrogen need	Low		0	0	0	0	0	0	0	0	N/A	
29									0	0	0	0	0	0	0	0		
30	Micks 30	250.1	0	0		Nitrogen need	Low		0	0	0	0	0	0	0	0	N/A	

NUTRIENT MANAGEMENT PLAN
FOR
SOUTH DAKOTA ANIMAL FEEDING OPERATIONS

Part 3: Planned Nutrient Application																				
17			Date: 04/08/25			Operator:			County: Codington			Date: 04/08/25			37					
a.e. #	Field ID (Include maps to illustrate location)		Alternative crops for years 1 through 5	Initial Nutrient Mgt Plan - N based fields (acres)	Nutrient Recommendation - SDSU Extension Service EC-750			Manure application based on:	Phosphorus Risk Assessment	Nitrogen Risk Assessment	Nutrients Applied									Estimated years to reapplication based on P ₂ O ₅ rate
	Name or Tract	Field #			N	P ₂ O ₅	K ₂ O				Commercial lbs/acre			Manure lbs/acre			Total lbs/acre			
											N	P ₂ O ₅	K ₂ O	N	P ₂ O ₅	K ₂ O	N	P ₂ O ₅	K ₂ O	
31	Section 15	31		77.8	0	0	0	Nitrogen need	Low		0	0	0	0	0	0	0	0	0	N/A
32	Town Quarter	32		144.5	0	0	0	Nitrogen need	Low		0	0	0	0	0	0	0	0	0	N/A
33											0	0	0	0	0	0	0	0	0	
34	Kens	34		116.4	0	0	0	Nitrogen need	Low		0	0	0	0	0	0	0	0	0	N/A
35	Murphey	35		46.6	114	22	0	Nitrogen need	Low		0	0	0	0	0	0	0	0	0	N/A
36	West Johnson	36		127.4	195	0	0	Nitrogen need	Low		0	0	0	0	0	0	0	0	0	N/A
37	Heath	37		138.8	0	20	0	Nitrogen need	Low		0	0	0	0	0	0	0	0	0	N/A
38	Berns	38		102.1	0	0	0	Nitrogen need	Low		0	0	0	0	0	0	0	0	0	N/A
39											0	0	0	0	0	0	0	0	0	
40	Cemetery	40		175.7	0	0	0	Nitrogen need	Low		0	0	0	0	0	0	0	0	0	N/A
41	Home QTR	41		64.6	11	0	0	1 Yr P Removal	High		0	0	0	0	0	0	0	0	0	0
42	Kats	42		163.9	88	0	0	5 Yr P Removal	Moderate		0	0	0	0	0	0	0	0	0	0
43	Kogans	43		143.2	128	46	0	Nitrogen need	Low		0	0	0	0	0	0	0	0	0	N/A
44											0	0	0	0	0	0	0	0	0	
45	Tommys	45		190.0	0	0	0	5 Yr P Removal	Moderate		0	0	0	0	0	0	0	0	0	0
46	George	46		95.1	0	40	0	Nitrogen need	Low		0	0	0	0	0	0	0	0	0	N/A
47											0	0	0	0	0	0	0	0	0	
48											0	0	0	0	0	0	0	0	0	
49	J Henning HP	49		155.0	0	0	0	5 Yr P Removal	Moderate		0	0	0	0	0	0	0	0	0	0
50	STEVE EDS	50		105.7	0	0	0	Nitrogen need	Low		0	0	0	0	0	0	0	0	0	N/A
51	BORNS NE	51		75.8	20	0	0	Nitrogen need	Low		0	0	0	0	0	0	0	0	0	N/A
52	BORNS SW	52		85.6	0	20	7	Nitrogen need	Low		0	0	0	0	0	0	0	0	0	N/A
53	BERKLEYS	53									0	0	0	0	0	0	0	0	0	
54	ESTES	54		66.9	0	0	0	Nitrogen need	Low		0	0	0	0	0	0	0	0	0	N/A
55	HARTLEY	55		118.2	121	38	0	Nitrogen need	Low		0	0	0	0	0	0	0	0	0	N/A
56	GREG MEYER	56		187.3	0	0	0	Nitrogen need	Low		0	0	0	0	0	0	0	0	0	N/A
57	YORK EAST	57									0	0	0	0	0	0	0	0	0	
58	NELSON	58									0	0	0	0	0	0	0	0	0	
59	NILES	59		64.2	123	53	0	Nitrogen need	Low		0	0	0	0	0	0	0	0	0	N/A
60	YORK WEST	60		57.6	0	7	0	Nitrogen need	Low		0	0	0	0	0	0	0	0	0	N/A

NUTRIENT MANAGEMENT PLAN
FOR
SOUTH DAKOTA ANIMAL FEEDING OPERATIONS

Part 3: Planned Nutrient Application																					
Date: 04/08/25 Operator: County: Codington Date: 04/08/25																					
Field #	Field ID (Include maps to illustrate location)		Alternative crops for years 1 through 5	Initial Nutrient Mgt. Plan - N based fields (acres)	Nutrient Recommendation - SDSU Extension Service EC-750			Manure application based on:	Phosphorus Risk Assessment	Nitrogen Risk Assessment	Nutrients Applied									Estimated years to reapplication based on P ₂ O ₅ rate	
	Name or Tract	Field #			N	P ₂ O ₅	K ₂ O				Commercial lbs/acre			Manure lbs/acre			Total lbs/acre				
											N	P ₂ O ₅	K ₂ O	N	P ₂ O ₅	K ₂ O	N	P ₂ O ₅	K ₂ O		
61	STEVE NORTH	61		94.0	124	40	60	Nitrogen need	Low		0	0	0	0	0	0	0	0	0	0	N/A
62	LUKEN	62		45.0	0	0	0	Nitrogen need	Low		0	0	0	0	0	0	0	0	0	0	N/A
63											0	0	0	0	0	0	0	0	0	0	
64											0	0	0	0	0	0	0	0	0	0	
65											0	0	0	0	0	0	0	0	0	0	
66											0	0	0	0	0	0	0	0	0	0	
67											0	0	0	0	0	0	0	0	0	0	
68											0	0	0	0	0	0	0	0	0	0	
69											0	0	0	0	0	0	0	0	0	0	
70											0	0	0	0	0	0	0	0	0	0	
71											0	0	0	0	0	0	0	0	0	0	
72											0	0	0	0	0	0	0	0	0	0	
73											0	0	0	0	0	0	0	0	0	0	
74											0	0	0	0	0	0	0	0	0	0	
75											0	0	0	0	0	0	0	0	0	0	
76											0	0	0	0	0	0	0	0	0	0	
77											0	0	0	0	0	0	0	0	0	0	
78											0	0	0	0	0	0	0	0	0	0	
79											0	0	0	0	0	0	0	0	0	0	
80											0	0	0	0	0	0	0	0	0	0	
81											0	0	0	0	0	0	0	0	0	0	
82											0	0	0	0	0	0	0	0	0	0	
83											0	0	0	0	0	0	0	0	0	0	
84											0	0	0	0	0	0	0	0	0	0	
85											0	0	0	0	0	0	0	0	0	0	
86											0	0	0	0	0	0	0	0	0	0	
87											0	0	0	0	0	0	0	0	0	0	
88											0	0	0	0	0	0	0	0	0	0	
89											0	0	0	0	0	0	0	0	0	0	
90											0	0	0	0	0	0	0	0	0	0	
91											0	0	0	0	0	0	0	0	0	0	
92											0	0	0	0	0	0	0	0	0	0	
93											0	0	0	0	0	0	0	0	0	0	

Total lbs of N and P₂O₅ available for crops: 5,990.9 N: 193,812 P₂O₅: 547,500

Total lbs of N and P₂O₅ required by fields: 785,378 234,561

Adequate acres are available based on Nitrogen analysis

However, P₂O₅ is in excess of removal. At this rate, it will take approximately 11 year(s) to build all listed fields up to 50 ppm P (Olsen).

Comments:

Indicator Max

Soil Test Result



Grower	TJ_Farms	Crop	Corn	Sample ID	07669-13
Field	Purcell	Yield Goal	200 Bu	Test Date	10-09-2025
Zone		Sample Depth	0-6"	Report Date	10-09-2025
		Sub-Sample Depth	6-24"	P Sample Option	Olsen Only

OVERALL SOIL HEALTH SCORE: 3.4

Biology	Unit	Level found	Rating
Organic Matter	%	5.1	VERY HIGH
pH		7.3	VERY HIGH
Buffer pH		0	
Subsoil pH		7.7	
CEC	meq/100g	30.6	
WEOC/CEC	ppm	3.1	VERY LOW
Soluble Salt		0.8	
Sub Salt	dS/m	0.7	
HT3	ppm	12.7	VERY LOW
Vast	%	17.8	LOW
Est. Bacteria:Fungi		0.1	

Nitrogen	Unit	Level found	Rating
Surface	lbs	16.3	
Sub Nitrate	lbs	80.3	
Total Nitrate	lbs	96.6	
H2O Nitrate	lbs	16.3	
H2O NH3	lbs	1.1	
H2O Nitrate:NH3 Ratio		15.1	
SLAN	ppm	9.6	VERY LOW
C:N Ratio		7.5	MEDIUM
Org N (WEON)	lbs	22.8	
Inorg N	lbs	17.3	
Mac WEON	lbs	12.3	
WEOC	ppm	94.4	VERY LOW
WEOC Goal	lbs	302.7	
Total Est N Release	lbs	24.7	
Nitrogen Rating		2	

Phosphorus	Unit	Level found	Rating
Total P (XRF)	lbs	1,332	
Bray	ppm	0	
Olsen	ppm	24.1	HIGH
Mehlich	ppm	0	
Total P H3A	ppm	45.9	MEDIUM
P H3A (Inorg)	ppm	38.2	
P H3A (Org)	ppm	7.7	
Available P2O5	lbs	91.7	VERY HIGH
P Saturation	%	51.3	VERY HIGH
Phosphorous Rating		3.5	

Potassium	Unit	Level found	Rating
Total K (XRF)	lbs	25,344	
K	ppm	140.8	MEDIUM
K - H3A	ppm	34	LOW
K:Na		2.9	
K:Mg		0.2	VERY LOW
K:Mg H3A		0	
BS-K	%	1.2	
BS-Na	%	0.4	
Potassium Rating		2.1	

Calcium	Unit	Level found	Rating
Total Ca (XRF)	lbs	23,562	
Ca	ppm	4,894.4	VERY HIGH
Ca - H3A	ppm	1,714.2	VERY HIGH
BS-Ca	%	80	
Ca:Mg Base Sat.	%	4.4	HIGH
Ca:Mg H3A	ppm	5.7	
Calcium Rating		3.6	

live 21
118 Acres

Indicator Max

Soil Test Result



Grower	TJ_Farms	Crop	Corn	Sample ID	07756-41
Field	Colts	Yield Goal	200 Bu	Test Date	10-27-2025
Zone		Sample Depth	0-6"	Report Date	10-28-2025
		Sub-Sample Depth	6-24"	P Sample Option	Olsen Only

OVERALL SOIL HEALTH SCORE: 3.7

Biology	Unit	Level found	Rating
Organic Matter	%	5.4	VERY HIGH
pH		6.6	MEDIUM
Buffer pH		7	
Subsoil pH		0	
CEC	meq/100g	18.2	
WEOC/CEC	ppm	7.8	MEDIUM
Soluble Salt		0.3	
Sub Salt	dS/m	0	
HT3	ppm	12.5	VERY LOW
Vast	%	21.3	MEDIUM
Est. Bacteria:Fungi		0.4	

Nitrogen	Unit	Level found	Rating
Surface	lbs	21.7	
Sub Nitrate	lbs	0	
Total Nitrate	lbs	21.7	
H2O Nitrate	lbs	21.7	
H2O NH3	lbs	1.6	
H2O Nitrate:NH3 Ratio		13.8	
SLAN	ppm	6.9	VERY LOW
C:N Ratio		8.3	MEDIUM
Org N (WEON)	lbs	30.7	
Inorg N	lbs	23.3	
Mac WEON	lbs	10.8	
WEOC	ppm	141.9	MEDIUM
WEOC Goal	lbs	191.5	
Total Est N Release	lbs	27.5	
Nitrogen Rating		2.7	

Phosphorus	Unit	Level found	Rating
Total P (XRF)	lbs	1,314	
Bray	ppm	0	
Olsen	ppm	37.2	VERY HIGH
Mehlich	ppm	0	
Total P H3A	ppm	130.6	HIGH
P H3A (Inorg)	ppm	86.5	
P H3A (Org)	ppm	44.1	
Available P2O5	lbs	221	VERY HIGH
P Saturation	%	76.7	VERY HIGH
Phosphorous Rating		4.3	

Potassium	Unit	Level found	Rating
Total K (XRF)	lbs	23,688	
K	ppm	175.8	HIGH
K - H3A	ppm	58	MEDIUM
K:Na		12.3	
K:Mg		0.4	LOW
K:Mg H3A		0	
B5-K	%	2.5	
B5-Na	%	0.2	
Potassium Rating		3	

Calcium	Unit	Level found	Rating
Total Ca (XRF)	lbs	17,748	
Ca	ppm	2,766.1	HIGH
Ca - H3A	ppm	1,032.4	VERY HIGH
B5-Ca	%	75.8	
Ca:Mg Base Sat.	%	3.8	MEDIUM
Ca:Mg H3A	ppm	4.8	
Calcium Rating		4.2	

line 22
73 acres

Indicator Complete Soil Test

Soil Test Result

Grower	TJ_Farms	Crop	Corn	Sample ID	07610-7
Field	Stromseths	Yield Goal	200 Bu	Test Date	09-25-2025
Zone		Sample Depth	0-6"	Report Date	09-25-2025
		Sub-Sample Depth	6-24"	P Sample Option	Olsen Only

OVERALL SOIL HEALTH SCORE: 3.1

Biology	Unit	Level found	Rating
Organic Matter	%	4.3	MEDIUM
pH		7.3	VERY HIGH
Buffer pH		7.1	
Subsoil pH		7.6	
CEC	meq/100g	20.2	
WEOC/CEC	ppm	4.2	VERY LOW
Soluble Salt		0.3	
Sub Salt	dS/m	0.3	
HT3	ppm	18.4	VERY LOW
Vast	%	8.9	VERY LOW
Est. Bacteria/Fungi		0.1	

Nitrogen	Unit	Level found	Rating
Surface	lbs	9.6	
Sub Nitrate	lbs	20.4	
Total Nitrate	lbs	29.9	
H2O Nitrate	lbs	9.6	
H2O NH3	lbs	2.4	
H2O Nitrate:NH3 Ratio		4.1	
SLAN	ppm	5.3	VERY LOW
C:N Ratio		3.6	LOW
Org N (WEON)	lbs	42.6	
Inorg N	lbs	11.9	
Mac WEON	lbs	37.1	
WEOC	ppm	84.6	VERY LOW
WEOC Goal	lbs	212	
Total Est N Release	lbs	46.2	
Nitrogen Rating		1.8	

Phosphorus	Unit	Level found	Rating
Bray	ppm	0	
Olsen	ppm	16.5	HIGH
Mehlich	ppm	0	
Total P H3A	ppm	28.5	LOW
P H3A (Inorg)	ppm	22.5	
P H3A (Org)	ppm	6	
Available P2O5	lbs	54.7	VERY HIGH
P Saturation	%	22.6	VERY HIGH
Phosphorous Rating		3.4	

Potassium	Unit	Level found	Rating
K	ppm	91.2	LOW
K - H3A	ppm	25	VERY LOW
K:Na		6.1	
K:Mg		0.2	VERY LOW
K:Mg H3A		0	
BS-K	%	1.2	
BS-Na	%	0.2	
Potassium Rating		1.7	

Calcium	Unit	Level found	Rating
Ca	ppm	3,315.8	VERY HIGH
Ca - H3A	ppm	1,297.2	VERY HIGH
BS-Ca	%	82.1	
Ca:Mg Base Sat.	%	5	VERY HIGH
Ca:Mg H3A	ppm	6.5	
Calcium Rating		3.6	

1/22 23
44 ACRES

Indicator Max

Soil Test Result



Grower	Tj_Farms	Crop	Corn	Sample ID	07669-10
Field	North Memorial	Yield Goal	200 Bu	Test Date	10-09-2025
Zone		Sample Depth	0-6"	Report Date	10-09-2025
		Sub-Sample Depth	6-24"	P Sample Option	Olsen Only

OVERALL SOIL HEALTH SCORE: 3.3

Biology	Unit	Level found	Rating
Organic Matter	%	3.8	MEDIUM
pH		7.5	VERY HIGH
Buffer pH		0	
Subsoil pH		7.9	
CEC	meq/100g	36.5	
WEOC/CEC	ppm	2.6	VERY LOW
Soluble Salt		0.6	
Sub Salt	dS/m	0.7	
HT3	ppm	11	VERY LOW
Vast	%	17.8	LOW
Est. Bacteria:Fungi		0.1	

Nitrogen	Unit	Level found	Rating
Surface	lbs	11.2	
Sub Nitrate	lbs	64.7	
Total Nitrate	lbs	75.9	
H2O Nitrate	lbs	11.2	
H2O NH3	lbs	1.6	
H2O Nitrate:NH3 Ratio		6.9	
SLAN	ppm	8.4	VERY LOW
C:N Ratio		6.5	MEDIUM
Org N (WEON)	lbs	26	
Inorg N	lbs	12.8	
Mac WEON	lbs	12.2	
WEQC	ppm	94	VERY LOW
WEQC Goal	lbs	346.3	
Total Est N Release	lbs	21.6	
Nitrogen Rating		1.7	

Phosphorus	Unit	Level found	Rating
Total P (XRF)	lbs	1,422	
Bray	ppm	0	
Olsen	ppm	10	MEDIUM
Mehlich	ppm	0	
Total P H3A	ppm	2.2	VERY LOW
P H3A (Inorg)	ppm	0.8	
P H3A (Org)	ppm	1.5	
Available P2O5	lbs	2.5	VERY LOW
P Saturation	%	5.4	LOW
Phosphorous Rating		2.1	

Potassium	Unit	Level found	Rating
Total K (XRF)	lbs	26,370	
K	ppm	114.7	
K - H3A	ppm	31.2	
K:Na		4.1	
K:Mg		0.2	VERY LOW
K:Mg H3A		0	
BS-K	%	0.8	
BS-Na	%	0.2	
Potassium Rating		2.1	

Calcium	Unit	Level found	Rating
Total Ca (XRF)	lbs	53,802	
Ca	ppm	6,260.2	
Ca - H3A	ppm	2,544.8	VERY HIGH
BS-Ca	%	85.9	
Ca:Mg Base Sat.	%	6.5	VERY HIGH
Ca:Mg H3A	ppm	9.3	
Calcium Rating		4	

Line 26 133 Acres

Indicator Max

Soil Test Result



Grower	TJ_Farms	Crop	Corn	Sample ID	07756-40
Field	Engels	Yield Goal	200 Bu	Test Date	10-27-2025
Zone		Sample Depth	0-6"	Report Date	10-28-2025
		Sub-Sample Depth	6-24"	P Sample Option	Olsen Only

OVERALL SOIL HEALTH SCORE: 4.6

Biology	Unit	Level found	Rating
Organic Matter	%	4.9	VERY HIGH
pH		6.2	MEDIUM
Buffer pH		6.8	
Subsoil pH		0	
CEC	meq/100g	17.1	
WEOC/CEC	ppm	6.8	LOW
Soluble Salt		0.4	
Sub Salt	dS/m	0	
HT3	ppm	18.5	VERY LOW
Vast	%	24.5	MEDIUM
Est. Bacteria/Fungi		0.3	

Nitrogen	Unit	Level found	Rating
Surface	lbs	20.2	
Sub Nitrate	lbs	0	
Total Nitrate	lbs	20.2	
H2O Nitrate	lbs	20.2	
H2O NH3	lbs	2.1	
H2O Nitrate:NH3 Ratio		9.7	
SLAN	ppm	7.7	VERY LOW
C:N Ratio		8.2	MEDIUM
Org N (WEON)	lbs	25.8	
Inorg N	lbs	22.3	
Mac WEON	lbs	16.3	
WEOC	ppm	116.9	LOW
WEOC Goal	lbs	179.9	
Total Est N Release	lbs	32.5	
Nitrogen Rating		2.7	

Phosphorus	Unit	Level found	Rating
Total P (XRF)	lbs	1,350	
Bray	ppm	0	
Olsen	ppm	29.8	VERY HIGH
Mehlich	ppm	0	
Total P H3A	ppm	78.6	MEDIUM
P H3A (Inorg)	ppm	52.1	
P H3A (Org)	ppm	26.5	
Available P2O5	lbs	133.1	VERY HIGH
P Saturation	%	35.8	VERY HIGH
Phosphorous Rating		3.9	

Potassium	Unit	Level found	Rating
Total K (XRF)	lbs	26,280	
K	ppm	99.1	LOW
K - H3A	ppm	25.3	VERY LOW
K:Na		7.2	
K:Mg		0.2	VERY LOW
K:Mg H3A		0	
BS-K	%	1.5	
BS-Na	%	0.2	
Potassium Rating		1.8	

Calcium	Unit	Level found	Rating
Total Ca (XRF)	lbs	14,364	
Ca	ppm	2,328	MEDIUM
Ca - H3A	ppm	888.5	VERY HIGH
BS-Ca	%	67.9	
Ca:Mg Base Sat.	%	3.2	MEDIUM
Ca:Mg H3A	ppm	4.4	
Calcium Rating		3.1	

File 27
74 acres

Indicator Complete Soil Test

Soil Test Result



Grower	TJ_Farms	Crop	Corn	Sample ID	07610-8
Field	Rileys	Yield Goal	200 Bu	Test Date	09-25-2025
Zone		Sample Depth	0-6"	Report Date	09-25-2025
		Sub-Sample Depth	6-24"	P Sample Option	Olsen Only

OVERALL SOIL HEALTH SCORE: 7.6

Biology	Unit	Level found	Rating
Organic Matter	%	4.4	MEDIUM
pH		6.5	MEDIUM
Buffer pH		6.9	
Subsoil pH		7.6	
CEC	meq/100g	19.6	
WEOC/CEC	ppm	4.5	VERY LOW
Soluble Salt		0.4	
Sub Salt	dS/m	0.4	
HT3	ppm	63.7	MEDIUM
Vast	%	8.9	VERY LOW
Est. Bacteria:Fungi		0.2	

Nitrogen	Unit	Level found	Rating
Surface	lbs	24.9	
Sub Nitrate	lbs	86.7	
Total Nitrate	lbs	111.6	
H2O Nitrate	lbs	24.9	
H2O NH3	lbs	4.2	
H2O Nitrate:NH3 Ratio		5.9	
SLAN	ppm	8.4	VERY LOW
C:N Ratio		4.2	LOW
Org N (WEON)	lbs	37.8	
Inorg N	lbs	29.2	
Mac WEON	lbs	37.8	
WEOC	ppm	88.8	VERY LOW
WEOC Goal	lbs	205.6	
Total Est N Release	lbs	59.5	
Nitrogen Rating		2.9	

Phosphorus	Unit	Level found	Rating
Bray	ppm	0	
Olsen	ppm	8.4	MEDIUM
Mehlich	ppm	0	
Total P H3A	ppm	14.1	LOW
P H3A (Inorg)	ppm	9.7	
P H3A (Org)	ppm	4.4	
Available P2O5	lbs	24.5	VERY LOW
P Saturation	%	7.8	LOW
Phosphorous Rating		2.8	

Potassium	Unit	Level found	Rating
K	ppm	72.9	LOW
K - H3A	ppm	18.3	VERY LOW
K:Na		4.7	
K:Mg		0.2	VERY LOW
K:Mg H3A		0	
BS-K	%	1	
BS-Na	%	0.2	
Potassium Rating		1.6	

Calcium	Unit	Level found	Rating
Ca	ppm	3,028.2	VERY HIGH
Ca - H3A	ppm	1,073.2	VERY HIGH
BS-Ca	%	77.3	
Ca:Mg Base Sat.	%	4.3	HIGH
Ca:Mg H3A	ppm	5.5	
Calcium Rating		4.2	

Line 28
61 Acres